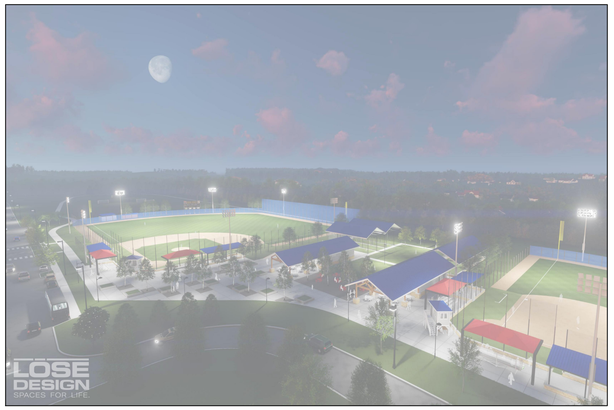


CONSTRUCTION DOCUMENTS

FREEDOM BALL FIELDS

C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN

CITY OF FRANKLIN (C.O.F.)
DIRECTOR OF PARKS - LISA CLAYTON
PARKS SUPERINTENDENT - PAIGE CRUSE
DIRECTOR OF ENGINEERING - PAUL HOLZEN
PROJECT MANAGER - DAVID HODNETT

FRANKLIN SPECIAL SCHOOL DISTRICT (F.S.S.D.)
DIRECTOR OF SCHOOLS- DR. DAVID SNOWDEN
ASST. DIRECTOR OF SCHOOLS - CHARLES ARNOLD
ATHLETICS DIRECTOR- ADAM DEMONBREUN

SHEET INDEX

VOLUME I - ARCHITECTURE

SHEET NUMBER	SHEET TITLE
GENERAL	
A0.01	GENERAL NOTES & ABBREVIATIONS
A0.02	GENERAL NOTES & LEGENDS
A0.03	GENERAL NOTES, WALL TYPES, & FINISHES
A0.05	ADA STANDARDS
A0.06	ADA STANDARDS
A0.07	ADA STANDARDS
A0.08	ADA STANDARDS
A0.10	CODE REVIEW
A0.11	LIFE SAFETY PLANS
A0.12	LIFE SAFETY PLANS
A0.30	ENERGY COMPLIANCE REPORTS
A0.40	UL ASSEMBLIES
A0.41	UL ASSEMBLIES
A0.50	PERSPECTIVES
AC2.00	ARCHITECTURAL SITE PLAN
ARCHITECTURAL	
A2.A1	FLOOR PLAN - BUILDING A
A2.A2	FLOOR PLAN - BUILDING A
A2.B1	FLOOR PLAN - BUILDING B
A2.B2	FLOOR PLAN - BUILDING B
A2.F1	FLOOR PLAN - BUILDING F
A3.A1	ELEVATIONS - BUILDING A
A3.A2	ELEVATIONS & SECTIONS - BUILDING A
A3.A3	SECTIONS - BUILDING A
A3.A4	SECTIONS - BUILDING A
A3.A5	WALL SECTIONS - BUILDINGS A & B
A3.A6	WALL SECTIONS - BUILDINGS A & B
A3.A7	WALL SECTIONS - BUILDINGS A & B
A3.A8	WALL SECTIONS - BUILDINGS A & B
A3.B1	ELEVATIONS - BUILDING B
A3.B2	ELEVATIONS & SECTIONS - BUILDING B
A3.B3	SECTIONS - BUILDING B
A3.B4	SECTIONS - BUILDING B
A3.F1	ELEVATIONS & SECTIONS - BUILDING F
A3.00	DETAILS - SITE & FOUNDATION
A3.10	DETAILS - PLAN AND WALL DETAILS
A3.20	DETAILS - CONCESSION WINDOW
A3.30	DETAILS - COLUMN WRAP
A3.60	DETAILS - CEILING DETAILS
A6.A1	RCP & ROOF PLAN - BUILDING A
A6.B1	RCP & ROOF PLAN - BUILDING B
A6.F1	RCP & ROOF PLAN - BUILDING F
A7.00	ROOF DETAILS - STANDING SEAM
A7.01	ROOF DETAILS - MEMBRANE
A7.02	DETAILS - ROOF PENETRATIONS
A7.03	DETAILS - CUPOLA DETAILS
A7.04	DETAILS - ROOF DETAILS
A8.00	DOOR & WINDOW LEGENDS AND NOTES
A8.01	DOOR NOTES & DETAILS
A9.00	CASEWORK DETAILS
A9.01	CASEWORK ELEVATIONS
A9.02	CASEWORK ELEVATIONS
STRUCTURAL	
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	SPECIAL INSPECTIONS
S0.4	MISC. DETAILS
S1.0	RESTROOM PAVILION PLANS
S2.0	CONCESSION PAVILION PLANS
S3.0	BATTING CAGE PAVILION PLANS
S4.0	BATTING CAGE 2 PAVILION PLANS
S5.0	SCORE STAND PLANS
S6.0	BALL FIELD BACKSTOP PLAN
S7.0	SOFTBALL BACKSTOP PLAN
S7.1	DETAILS 2
MECHANICAL AND PLUMBING	
M1.01	HVAC FLOOR PLANS - BUILDING 'A'
M1.02	HVAC FLOOR PLANS - BUILDING 'B'
M2.01	HVAC SECTIONS
M3.01	HVAC AIR TERMINAL SCHEDULES
P1.01	PLUMBING FLOOR PLANS - BUILDING 'A'
P1.02	PLUMBING FLOOR PLANS - BUILDING 'B'
P2.01	PLUMBING SECTIONS
P2.02	PLUMBING SECTIONS
P3.01	PLUMBING 3D FLOOR PLANS - BUILDING 'A'
P3.02	PLUMBING 3D FLOOR PLANS - BUILDING 'B'
PM2.01	HVAC AND PLUMBING DETAILS
PM2.02	HVAC AND PLUMBING DETAILS AND CONTROLS
PM 3.01	HVAC AND PLUMBING LEGENDS AND SCHEDULES

SHEET NUMBER	SHEET TITLE
ELECTRICAL	
E1.00	ELECTRICAL SITE PLAN SECTION 1
E1.01	ELECTRICAL SITE PLAN SECTION 1
E1.02	ELECTRICAL SITE PLAN SECTION 2
E1.03	ELECTRICAL SITE PLAN SECTION 3
E1.04	ELECTRICAL SITE PLAN SECTION 4
E1.10	ENLARGED ELECTRICAL SITE PLAN
E2.0	BUILDING A ELECTRICAL PLAN
E2.1	BUILDING B ELECTRICAL PLAN
E3.0	ELECTRICAL LEGEND & NOTES
E3.1	ELECTRICAL SCHEDULES & RISER
E4.0	ELECTRICAL DETAILS
E5.O	ELECTRICAL COMCHECK
ADD ALTERNATES	
AS1.0	BATTING CAGE 2 FOUNDATION PLAN
AE1.10	ENLARGED ELECTRICAL SITE PLAN

VOLUME II - SITE

SHEET NUMBER	SHEET TITLE
C0.00	COVER
C0.01	GENERAL NOTES
C0.02	TOPO SURVEY
C0.03	TOPO SURVEY
C0.04	TOPO SURVEY
C0.05	TOPO SURVEY
C0.08	AUTOTURN PLAN
C0.09	EXISTING SLOPE ANALYSIS & ROAD NETWORK
C0.10	OVERALL DEMOLITION PLAN
C0.11	DEMOLITION PLAN
C0.12	DEMOLITION PLAN
C0.13	DEMOLITION PLAN
C0.14	DEMOLITION PLAN
C1.00	OVERALL LAYOUT PLAN
C1.01	LAYOUT PLAN
C1.02	LAYOUT PLAN
C1.03	LAYOUT PLAN
C1.04	LAYOUT PLAN
C1.05	LAYOUT PLAN
C2.00	OVERALL GRADING PLAN
C2.01	GRADING PLAN
C2.02	GRADING PLAN
C2.03	GRADING PLAN
C2.04	GRADING PLAN
C2.05	GRADING PLAN
C2.06	GRADING PLAN
C2.10	EPSC PHASE 1
C2.20	EPSC PHASE 2
C2.30	EPSC PHASE 3
C2.50	PIPE CHART
C2.90	EPSC & DRAINAGE DETAILS
C2.91	EPSC & DRAINAGE DETAILS
C2.92	EPSC & DRAINAGE DETAILS
C4.00	DETAILS
C4.01	DETAILS
C4.02	DETAILS
C4.03	DETAILS
C4.04	DETAILS
C4.05	DETAILS
C4.06	DETAILS
C4.07	DETAILS
C4.08	DETAILS
C4.09	DETAILS
C4.10	DETAILS
C4.11	DETAILS
C4.12	DETAILS
C4.13	DETAILS

SHEET NUMBER	SHEET TITLE
C5.00	SITE UTILITY PLAN
C5.01	WATER AND SEWER PLAN
C5.02	IRRIGATION SERVICE PLAN & PROFILE
C5.03	UTILITY DETAILS
L1.00	OVERALL LANDSCAPE PLAN
L1.01	LANDSCAPE PLAN
L1.02	LANDSCAPE PLAN
L1.03	LANDSCAPE PLAN
L1.04	BIO RETENTION PLAN
L1.05	TREE REMOVAL & REPLACEMENT
L1.06	TREE CANOPY RETENTION
L1.10	NOTES & SCHEDULES
L1.11	LANDSCAPE DETAILS
L2.00	IRRIGATION PLAN
L2.01	IRRIGATION PLAN
L2.02	IRRIGATION PLAN
L2.03	IRRIGATION PLAN
L2.10	IRRIGATION NOTES & SCHEDULES
L2.11	IRRIGATION DETAILS
L2.12	IRRIGATION DETAILS
L2.13	IRRIGATION PUMP DETAILS
	ADD ALTERNATES
AC1.03	LAYOUT PLAN
AC4.00	DETAILS
AC4.01	DETAILS

PROJECT INFORMATION

SITE DATA					
ADDRESS	507 NEW HWY 96 W, FRANKLIN, TN, 37064				
PARCEL ID	630 5100				
EXISTING ZONING	CIVIC				
EXISTING LAND USE	PUBLIC				
TOTAL PROPERTY AREA	74.42 ACRES				
TOTAL SITE AREA	9.03 ACRES				
DISTURBED AREA	9.03 ACRES				
IMPERVIOUS	1.60 ACRES				
PERVIOUS	7.43 ACRES				
CITY OF FRANKLIN PROJECT NUMBER					
FEMA FLOOD MAP	47187C0192G	EFFECTIVE: 12/22/2016			
IMPERVIOUS SURFACE RATIO (ISR)					

OWNER/DEVELOPER

CITY OF FRANKLIN
109 3RD AVENUE SOUTH
FRANKLIN, TN 37064
(615) 791-3217

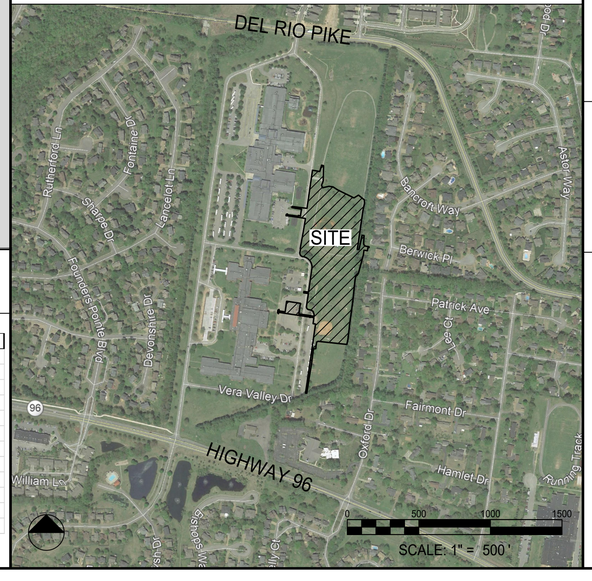
FRANKLIN SPECIAL SCHOOL DISTRICT
507 NEW HIGHWAY 96 WEST
FRANKLIN, TN 37064
(615) 794-6624

DESIGNER

LOSE DESIGN
LANDSCAPE ARCHITECTURE/ARCHITECTURE/CIVIL ENGINEERING/PLANNING

2809 FOSTER AVENUE
NASHVILLE, TENNESSEE 37210
PHONE: 615-242-0040
CONTACT:
JOSHUA GULICK, PLA (JGULICK@LOSE.DESIGN)
SEAN GUTH, AIA, NCARB (SGUTH@LOSE.DESIGN)
MATT SHEARON, PE (MSHEARON@LOSE.DESIGN)

LOCATION MAP



CONSULTANTS

SURVEYOR:
COLLIER ENGINEERING CO., INC.
5560 FRANKLIN PIKE CIRCLE
BRENTWOOD, TN 37027
PHONE (615) 331-1050
CONTACT: DANIEL CURRY, RLS

GEOTECHNICAL ENGINEER:
COLLIER ENGINEERING CO., INC.
5560 FRANKLIN PIKE CIRCLE
BRENTWOOD, TN 37027
PHONE (615) 331-1050
CONTACT : SAMUEL VANCE, P.E.

ELECTRICAL ENGINEER:
PARSONS ENGINEERING, INC.
4751 TROUSDALE DRIVE, SUITE 202
NASHVILLE, TN 37220
PHONE (615)-386-9396
CONTACT: ANTHONY PEZZI, P.E.

STRUCTURAL ENGINEER:
TRAMMELL ENGINEERING GROUP, LLC
401 WEST MAIN STREET, SUITE 204
LEBANON, TN 37087
PHONE (615)-784-4475
CONTACT: MATTEW TRAMMELL, P.E., S.E.

MECHANICAL ENGINEER:
HARMS ENGINERING
850 NEARTOP DRIVE
NASHVILLE, TN 37205
PHONE (615)-604-6874
CONTACT: TIM HARMS, P.E.

TENNESSEE STATE PLANE COORDINATE SYSTEM, ZONE 5301, FIPSZONE 4100; NAD 83 DATUM

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED
ARCHITECT
No. 105240
STATE OF TENNESSEE
02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
COF PROJECT #7139
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO.	DATE	DESCRIPTION

SHEET TITLE
COVER

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY JAG	SCALE --
CHECKED BY JAG	

SHEET NO.
C0.00

N:\2018\18062-19_FSSD_Ball_Field_CD\ACAD\01_SHEETS\18062-1_C0.00_SITE_COVER_SERIES.dwg - Printed on 2021-02-25 at 8:00:44 AM

ABBREVIATIONS

A.B. -	ANCHOR BOLTS
ABV. -	ABOVE
ACT -	ACOUSTICAL CEILING TILE
ADA. -	AMERICANS WITH DISABILITIES ACT OF 1992
ADAAG. -	AMERICANS WITH DISABILITIES ACT ARCHITECTURAL GUIDELINES
ADJ. -	ADJUSTABLE
A.F.F. -	ABOVE FINISHED FLOOR
ALUM. -	ALUMINUM
APPROX. -	APPROXIMATE
ARCH. -	ARCHITECT, ARCHITECTURAL
ASPH. -	ASPHALT
ASSEM -	ASSEMBLE
ASSOC -	ASSOCIATE
ASSY -	ASSEMBLY
ATC -	ACOUSTICAL TILE CEILING
ATTEN -	ATTENUATION
ATM -	AUTOMATIC TELLER MACHINE
AUTO -	AUTOMATIC
BD. -	BOARD
BDRM. -	BEDROOM
BEL. -	BELOW
BETW. -	BETWEEN
BIT. -	BITUMINOUS
BLDG. -	BUILDING
BLK. -	BLOCK
BLKG. -	BLOCKING
BM. -	BEAM
B.O.S. -	BOTTOM OF STEEL
BTM. -	BOTTOM
BRG -	BEARING
BRK -	BRICK
BRKT -	BRACKET
BSMT -	BASEMENT
B.W. -	BOTH WAYS
C/C -	CENTER TO CENTER
CAB -	CABINET
C.F.C.I. -	CONTRACTOR FURNISHED & CONTRACTOR INSTALLED
C.J. -	CONTROL JOINT
C.L. -	CENTERLINE
CLG. -	CEILING
CLO. -	CLOSET
CLR. -	CLEAR
C.M.U. -	CONCRETE MASONRY UNIT
CNTR. -	CENTER
C.O. -	CASED OPENING
COL. -	COLUMN
CONC. -	CONCRETE
COND. -	CONDITION
CONST. -	CONSTRUCTION
CONT. -	CONTINUOUS
CONTR. -	CONTRACTOR
CORR. -	CORRIDOR
CRPT. -	CARPET
DBL. -	DOUBLE
DEG. -	DEGREE
DEMO. -	DEMOLITION
DEPT. -	DEPARTMENT
DET. -	DETAIL
D.F. -	DRINKING FOUNTAIN
D.H. -	DOUBLE HUNG
DIAG. -	DIAGONAL
DIA. -	DIAMETER
DIFF. -	DIFFUSER
DIM. -	DIMENSION
DIMS. -	DIMENSIONS
DIV. -	DIVISION
DN. -	DOWN
DTL. -	DETAIL
D.S. -	DOWNSPOUT
DWG. -	DRAWING
DWGS. -	DRAWINGS
D.S. -	DOWNSPOUT
EA. -	EACH
E.I.F.S. -	EXTERIOR INSULATION AND FINISH SYSTEM
E.F.O. -	EXTERIOR FACE OF
E.J. -	EXPANSION JOINT
ELECT. -	ELECTRICAL
ELEV. -	ELEVATION
EMER. -	EMERGENCY
E.E.W. -	EMERGENCY EYE WASH
ENGR. -	ENGINEER
ENTR. -	ENTRANCE
E.O.S. -	EDGE OF SLAB
EQ. -	EQUAL
EQUIP. -	EQUIPMENT
E.W.C. -	ELECTRIC WATER COOLER
EXIST. -	EXISTING
EXP. -	EXPANSION
EXT. -	EXTERIOR

FABR. -	FABRICATE
F.A.R. -	FLOOR AREA RATIO
F.D. -	FLOOR DRAIN
FDN. -	FOUNDATION
F.F. -	FINISHED FLOOR
F.F.E. -	FINISHED FLOOR ELEVATION
FIN -	FINISH, FINISHED
FLASH -	FLASHING
FLG. -	FLOORING
FLR. -	FLOOR
FLUOR. -	FLUORESCENT
F.O. -	FINISHED OPENING
FPRF. -	FIREPROOF
FRT. -	FIRE RETARDANT
F.S. -	FLOOR SINK
FT. -	FEET
FTG. -	FOOTING
FURN. -	FURNISH, FURNITURE
FURR. -	FURRING
F.V.C. -	FIRE VALVE CABINET
GA. -	GAUGE, GAGE
GALV. -	GALVANIZED
G.B. -	GLASS BLOCK
G.C. -	GENERAL CONTRACTOR
GL. -	GLASS
GOVT. -	GOVERNMENT
GYP. BD. -	GYPSUM BOARD
H.C. -	HOLLOW CORE
H.D. -	HEAVY DUTY
HDR. -	HEADER
HDW. -	HARDWARE
HGR. -	HANGER
HGT. -	HEIGHT
H.M. -	HOLLOW METAL
HORIZ. -	HORIZONTAL
HR. -	HOUR
HT. -	HEIGHT
I.D. -	INSIDE DIAMETER
I.M. -	INSULATED METAL
IN. -	INCH
INFO. -	INFORMATION
INSUL. -	INSULATION
INT. -	INTERIOR
I.T. -	INFORMATION TECHNOLOGIES
JAN. -	JANITOR
JST. -	JOIST
JT. -	JOINT
L -	ANGLE
LAM. -	LAMINATE
LAV. -	LAVATORY
LH. -	LEFT HAND
LNDG. -	LANDING
LTG. -	LIGHTING
LVR. -	LOUVER
LVT -	LUXURY VINYL TILE
MAINT. -	MAINTENANCE
MAS. -	MASONRY
MATL. -	MATERIAL
MAX. -	MAXIMUM
MECH. -	MECHANICAL
MED. -	MEDIUM
MET. -	METAL
MEZZ. -	MEZZANINE
MFR. -	MANUFACTURER
MIN. -	MINIMUM
MIR. -	MIRROR
MISC. -	MISCELLANEOUS
MLDG. -	MOLDING
M.M. -	MILLIMETER
MEM. -	MEMBRANE
M.O. -	MASONRY OPENING
MTD. -	MOUNTED
MTL. -	MATERIAL
MULL. -	MULLION
NO. -	NUMBER
NOM. -	NOMINAL
N.I.C. -	NOT IN CONTRACT
N.T.S. -	NOT TO SCALE
O.C. -	ON CENTER
OCC. -	OCCUPANT, OCCUPANCY
O.D. -	OUTSIDE DIAMETER
O.F. -	OUTSIDE FACE
O.F.O.I -	OWNER FURNISHED & OWNER INSTALLED
O.F.C.I -	OWNER FURNISHED & CONTRACTOR INSTALLED
O.H. -	OVERHEAD
OPNG. -	OPENING
OPP. -	OPPOSITE
O.R. -	OUTSIDE RADIUS
O.S.B. -	ORIENTED STRAND BOARD

ALUM. -	ALUMINUM
P. LAM. -	PLASTIC LAMINATE
PAR. -	PARALLEL
P.E.B. -	PRE-ENGINEERED BUILDING
PED. -	PEDESTAL, PEDESTRIAN
PERIM -	PERIMETER
PERP -	PERPENDICULAR
PLAS. -	PLASTER
P-LAM. -	PLASTIC LAMINATE
PLBG -	PLUMBING
PLMBG -	PLUMBING
PLYWD -	PLYWOOD
PNT. -	PAINT
PR. -	PAIR
PREFAB. -	PREFABRICATED
PT	PRESSURE TREATED
PTD. -	PAINTED
PTN. -	PARTITION
P.V.C. -	POLYVINYL CHLORIDE
PWR. -	POWER
Q.T. -	QUARRY TILE, QUART
QTR. -	QUARTER
QTY. -	QUANTITY
R. -	RADIUS
R.C.P. -	REFLECTED CEILING PLAN
R.D. -	ROOF DRAIN
REBAR. -	REINFORCING BAR
REF. -	REFRIGERATOR
REINF. -	REINFORCEMENT, OR REINFORCE
REQD. -	REQUIRED
R.H. -	RIGHT HAND
RM. -	ROOM
R.O. -	ROUGH OPENING
SCHED. -	SCHEDULE
S.F. -	SQUARE FOOT
SHR. -	SHOWER
SHT. -	SHEET
SHTHG -	SHEATHING
SHWR. -	SHOWER
SIM. -	SIMILAR
SPEC. -	SPECIFICATION
SPECS. -	SPECIFICATIONS
SQ. -	SQUARE
S.S. -	STAINLESS STEEL
S.T.C. -	SOUND TRANSMISSION CLASS
STD. -	STANDARD
STN. -	STAIN
STL. -	STEEL
STOR. -	STORAGE
STRUC. -	STRUCTURAL
STRUCT. -	STRUCTURAL
SUSP. -	SUSPENDED, SUSPEND
S.Y. -	SQUARE YARD
SYM. -	SYMMETRICAL
SYS. -	SYSTEM
T. -	TREAD
T/ -	TOP
T&B -	TOP AND BOTTOM
T&G -	TONGUE & GROOVE
TAN. -	TANGENT
T.O.C -	TOP OF CURB
TEL. -	TELEPHONE
THK. -	THICK
THKNS. -	THICKNESS
THRESH. -	THRESHOLD
THRM. -	THERMAL
T.O.S. -	TOP OF STEEL
TV -	TELEVISION
T.O.W. -	TOP OF WALL
T.P.O. -	THERMO PLASTIC OLEFIN
TYP. -	TYPICAL
U.L. -	UNDERWRITERS' LABORATORIES
U.N.O. -	UNLESS NOTED OTHERWISE
U.O.N. -	UNLESS OTHERWISE NOTED
UT. -	UTILITY
VAT -	VINYL ASBESTOS TILE
V.B. -	VAPOR BARRIER
V.C.T. -	VINYL COMPOSITION TILE
VENT. -	VENTILATE, VENTILATOR
VERT. -	VERTICAL
VEST. -	VESTIBULE
V.I.F. -	VERIFY IN THE FIELD
VNR. -	VENEER
VOL. -	VOLUME
V.P. -	VAPOR PROOF
V.T. -	VINYL TILE
W. -	WIDTH
W/ -	WITH
W/O -	WITHOUT
W.C. -	WATER CLOSET
WD. -	WOOD
WDW -	WINDOW
W.H. -	WATER HEATER
WIN -	WINDOW
W.P. -	WORKING POINT
WPR -	WATERPROOFING
WT. -	WEIGHT
W.W.F -	WELDED WIRE FABRIC

GENERAL NOTES

1. THESE CONTRACT DOCUMENTS (DRAWINGS AND PROJECT MANUAL/ SPECIFICATIONS) ARE TO BE CONSIDERED AS A "WHOLE" ENTITY. ANY CONTRACTOR, SUBCONTRACTOR, OR VENDOR THAT CHOOSES TO UTILIZE ONLY A "PORTION" OF THE DOCUMENTS TO BID, CONSTRUCT, OR SUPPLY MATERIAL FOR THE PROJECT SHALL ASSUME FULL RESPONSIBILITY FOR RELATED ITEMS THAT MAY BE CONTAINED ELSEWHERE IN THE DOCUMENTS. THE OWNER WILL NOT GRANT ADDITIONAL TIME OR COST FOR CONSEQUENCES THAT MAY RESULT. WHERE THERE IS A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, CONTACT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. FOR BIDDING PURPOSES, USE THE MORE COSTLY OPTION.
2. THE BUILDING DESIGN, AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS, INDICATES DESIGN INTENT WHICH INCLUDES, BUT IS NOT LIMITED TO, THESE "DRAWINGS" WITH GRAPHIC DEPICTIONS OF THE CONSTRUCTION, NOTES, & DIMENSIONS; THE PROJECT MANUAL WHICH INCLUDES THE GENERAL & TECHNICAL SPECIFICATIONS; AND THE SCHEDULES (AND MAY ALSO BE REFERRED TO AS "THE SPECS" OR "THE SPECIFICATIONS"). THESE TWO DOCUMENTS ARE DEPENDENT ON EACH OTHER AND SHALL BE UTILIZED BY THE CONTRACTOR AS THE INITIAL SET OF CONSTRUCTION DOCUMENTS. ADDENDA, SUPPLEMENTARY DRAWINGS, FIELD REVISIONS, AND ALL OTHER DOCUMENTS PROVIDED DURING THE CONSTRUCTION PROCESS SHALL BE TRANSMITTED AS THEY BECOME RELEVANT. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL HAVING A CLEAR UNDERSTANDING OF THE COMPLETE PACKAGE OF DRAWINGS AND SPECS AS LISTED IN THE PROJECT MANUAL.
3. ALL CONSTRUCTION ACTIVATES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ("ADA") AND ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36 CFR PARTS 1190 AND 1191, ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES; ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES; PROPOSED RULE, PUBLISHED IN THE FEDERAL REGISTER ON JULY 23, 2004, WHETHER SHOWN OR IMPLIED.
4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL MEET ALL APPLICABLE BUILDING CODES, AND THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING **ALL** WORK, MATERIALS, ACCESS, ETC. TO BE IN CONFORMANCE WITH CODE REQUIREMENTS, WHETHER SHOWN, SCHEDULE OR NOT. CONTACT THE BUILDING OFFICIALS AND FIRE DEPARTMENT FOR SCHEDULING OF ALL REQUIRED FIELD INSPECTIONS.
5. THE GENERAL CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW ALL SHOP DRAWINGS, COORDINATE DIFFERENT SUBMITTALS FROM DIFFERENT TRADES, VERIFY EACH FOR COMPLETE DIMENSIONS, DETAIL REFERENCES, AND COORDINATE WITH IN-FIELD CONDITIONS AND OTHER FACTORS THAT MAY IMPACT THE TOTAL PROJECT. THE CONTRACTOR IS REQUIRED TO "FILL-IN" AND CALCULATE MISSING SHOP DRAWING REQUESTED INFORMATION AND DIMENSIONS PER THEIR BEST UNDERSTANDING. THE ARCHITECTURAL AND CONSULTANT'S REVIEW WILL ONLY BE FOR "DESIGN INTENT" AND "VERIFICATION" OF THE SUPPLIED INFORMATION BY THE VENDOR, SUB AND GENERAL CONTRACTOR. SHOP DRAWINGS SUBMITTED BY THE GENERAL CONTRACTOR THAT INDICATE ONLY "ACKNOWLEDGMENT" OR SIMILAR LANGUAGE WILL BE REJECTED AND MARKED FOR RESUBMITTAL.
6. CONTRACTING PARTIES SHALL APPROVE THE SUBSTRATES PREPARED FOR THEIR SYSTEM INSTALLATIONS PRIOR TO BEGINNING THE INSTALLATION OF THEIR SYSTEMS. THEY SHALL REPORT ALL DEFICIENCIES TO THE SUPERINTENDENT, THE GC, AND TO THE ARCHITECT; UPON COMMENCING WITH THE INSTALLATION OF THEIR SYSTEM OVER A SUBSTRATE PREPARED BY THEMSELVES, ANOTHER COMPANY, OR ANOTHER PERSON, (SUB)CONTRACTOR(S) SHALL, BY DEFINITION, BE DEEMED TO HAVE THOROUGHLY INSPECTED AND FORMALLY APPROVED AND ACCEPTED ALL SUBSTRATES OVER WHICH HE INSTALLS HIS SYSTEM(S). THE GC SHALL ALLOW THE NECESSARY TIME IN THE SCHEDULE FOR SUBCONTRACTORS TO INSPECT THESE SUBSTRATES.
7. THE CONTRACTOR IS REQUIRED TO PROVIDE **ALL** LABOR, MATERIAL, AND EQUIPMENT TO "FULLY" CONSTRUCT THE PROJECT, WHETHER SPECIFICALLY DETAILED OR IMPLIED. IF THE CONTRACTOR, AFTER REVIEW OF THE DRAWINGS, DETERMINES ADDITIONAL INFORMATION OR CLARIFICATION IS NEEDED, CONTACT THE ARCHITECT **BEFORE** SUBMITTING CONSTRUCTION COST, SUBMITTING A BID, OR PROCEEDING WITH THE WORK. PROCEEDING WITH WORK WITHOUT APPROVAL IS AT RISK OF NOT BEING ACCEPTED, AND IS SUBJECT TO REPLACEMENT, TO THE SATISFACTION OF THE OWNER, AT CONTRACTOR'S EXPENSE.
8. ALL MATERIALS PROVIDED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND AS PER CODE REQUIREMENTS. IF ARCHITECT'S RECOMMENDATIONS CONFLICT WITH THE MANUFACTURER'S, NOTIFY ARCHITECT BEFORE PROCEEDING.
9. THE BUILDING LAYOUT SHALL BE BASED ON THE ARCHITECTURAL, STRUCTURAL, AND ALL ENGINEERING DRAWINGS, AND COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CHECK ALL GRADES AND FINAL DIMENSIONS "IN THE FIELD" AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
10. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION. ALL WORK TO BE IN CONFORMANCE WITH OSHA AND LOCAL REQUIREMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SECURITY THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. ANY AND ALL DAMAGE INCURRED THAT IS A RESULT OF THE CONTRACTOR'S FAILURE TO PROPERLY SECURE THE SITE, INCLUDING BUT NOT LIMITED TO: VANDALISM, BROKEN OR DAMAGED ELEMENTS, OR THEFT OF TOOLS AND MATERIALS, WILL BE REPAIRED AND / OR REPLACED AT THE SOLE COST OF THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER.
13. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANIES CONCERNING SCHEDULING AND PLACEMENT OF UTILITIES AND PROVIDED ITEMS SUCH AS SEWER LINES, TRANSFORMERS, POWER POLES, FIRE HYDRANTS, BACK FLOW PREVENTERS, ETC. BEFORE STARTING CONSTRUCTION. COORDINATE ALL SERVICE INTERRUPTION WITH OWNER AT LEAST 3 DAYS PRIOR TO EVENT.
14. DISPOSE OF WASTE MATERIAL IN A LEGALLY APPROVED DUMP SITE. ONCE WASTE MATERIAL LEAVES THE JOB SITE IT BECOMES THE PROPERTY OF THE CONTRACTOR. NO BURNING OF DEBRIS SHALL BE ALLOWED UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND OWNER. OWNER HAS FIRST RIGHT OF REFUSAL OF ANY AND ALL EXISTING MATERIAL AND EQUIPMENT.
15. CONTRACTOR SHALL KEEP ALL ADJACENT STREETS FREE OF DEBRIS, MUD, GRAVEL, ETC. OR ANY ITEMS WHICH MAY CAUSE MOTORIST DIFFICULTIES. CONTRACTOR IS REQUIRED TO PERIODICALLY WASH ADJACENT STREET OF CONSTRUCTION DIRT AND DEBRIS.
16. CONTRACTOR SHALL VERIFY LOCATION OF ALL EASEMENTS, SETBACKS, R.O.W. AND PROPERTY CORNERS BEFORE STARTING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS REGARDING THE USE OF THIS LAND FOR CONSTRUCTION, OPERATIONS AND GRADING. COORDINATE FURTHER WITH CIVIL DRAWING REQUIREMENTS.
17. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL WALKS, STEPS AND LANDINGS. THERE SHALL BE NO PONDING OF WATER.
18. BUILDING MATERIALS CONTAINING ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE PROHIBITED ON THIS PROJECT.
19. ITEMS REQUIRING FINISH SELECTIONS THAT DO NOT APPEAR IN THE DOCUMENTS SHALL BE SELECTED FROM MANUFACTURER'S PREMIUM COLOR SELECTIONS AND WILL BE SELECTED BY THE ARCHITECT OR OWNER AT A LATER DATE.
20. ALL NEW INTERIOR FIRE RATED PARTITION WALLS SHALL EXTEND TIGHT TO STRUCTURE ABOVE AND SHALL TERMINATE TIGHT AT EXTERIOR SHEATHING. NON-FIRE RATED PARTITIONS SHALL BUTT INTO FACE OF FIRE RATED PARTITION SO THAT FIRE RATING INTEGRITY IS MAINTAINED. SEAL ALL PENETRATIONS WITH APPROPRIATE RATED ASSEMBLIES TO MAINTAIN THE FIRE RATING OF THE INDIVIDUAL PARTITIONS OR WALLS.
21. ALL PARTITIONS ON THIS PROJECT EXTEND FROM THE FLOOR SLAB UPWARD TO THE FLOOR OR ROOF DECK ABOVE UNLESS INDICATED OTHERWISE. PROVIDE ADDITIONAL HORIZONTAL & LATERAL BRACING TO ALL STUD WALLS PER MANUFACTURER'S SPECIFICATIONS.
22. ALL STUD SPACING TO BE MAXIMUM 16" O.C. UNLESS OTHERWISE INDICATED. INTERIOR DIMENSIONS ARE FROM FACE TO FACE OF FINISH AND FACE TO FACE OF CMU MASONRY WALLS, U.N.O.
23. ALL MASONRY VENEER TO BE SUPPORTED BY NON-COMBUSTIBLE MATERIALS. PROVIDE CAVITY DRAINAGE, WEEPS, ETC. AS REQUIRED.
24. SLOPE INTERIOR FLOOR AS SHOWN ON PLANS 1/8" PER FOOT MINIMUM, 1/4" PER FOOT MAXIMUM TO ALL INDICATED SPOT FLOOR AND TRENCH DRAINS (GENERALLY FULL ROOM FLOOR SLOPE). THIS INCLUDES BUT IS NOT LIMITED TO: ALL EPOXY FLOORING AND FLOOR TILE FINISHES.
25. THE FLOOR LEVEL ON BOTH SIDES OF ALL DOORS SHALL BE LEVEL FOR THE WIDTH OF THE DOOR, AND SHALL BE FULLY ADA AND CODE COMPLIANT.
26. ALL DOOR FRAMES, WHICH ARE INTENDED TO HAVE A DOOR WITH A SWING GREATER THAN 90 DEGREES, SHALL BE SET BACK 1/4" FROM THE EXTERIOR WALL FACE ON THE SWING SIDE. PROVIDE STOPS OR CLOSERS AS NECESSARY.
27. ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC. LOCATED IN RATED GYPSUM BOARD PARTITIONS SHALL BE BACKED WITH TYPE-X DRYWALL ON FIVE SIDES TO MAINTAIN RATING.
28. ELECTRICAL BOXES LOCATED ON OPPOSITE SIDES OF WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES MINIMUM FOR SOUND ATTENUATION.
29. ROUGH FINISHING AND "OVER" CUTS AROUND ELECTRICAL OUTLETS WILL NOT BE ACCEPTED.
30. ALL SINKS AND LAVATORIES SHALL BE MOUNTED TO ALLOW A MINIMUM 18" CLEARANCE BETWEEN CENTERLINE OF SINK AND ADJACENT WALL AS REQUIRED, U.N.O. PROVIDE ADA PIPE PROTECTION WHERE REQUIRED.
31. ALL WATER CLOSETS SHALL BE MOUNTED TO ALLOW 18" BETWEEN ADJACENT SIDE WALL AND CENTER LINE OF WATER CLOSET IN INDIVIDUAL TOILET ROOMS, UNLESS NOTED OTHERWISE. IN TOILET STALLS, CENTER WATER CLOSET IN STALL. ANY FLUSH VALVE, WHEN PROVIDED, IS TO BE PLACED ON OPEN OR ACCESSIBLE SIDE OF TOILET.
32. FOR ALL WOOD STUD FRAMING, SUCH AS: WOOD TO WOOD, WOOD TO METAL, OR WOOD TO CMU, USE SCREW FASTENERS TO PREVENT TWISTING & WARPING. NAILING ELEMENTS TOGETHER IS NOT ACCEPTABLE.
33. ALL FRAMES AND FRAMING INSTALLED IN CONTACT WITH MASONRY ELEMENTS SHALL BE COATED WITH A BITUMINOUS BARRIER.
34. PROVIDE AND INSTALL KNOXBOX AT BUILDING ENTRANCE PER LOCAL CODE OFFICIAL DIRECTIONS AND REQUIREMENTS. MODEL OF KNOXBOX TO BE APPROVED BY LOCAL CODE OFFICIALS. KNOXBOX B.O.D. TO BE MODEL 3200 - 10 KEY CAPACITY - COLOR BLACK, U.N.O. KNOXBOX TO BE RECESSED, MOUNTED ON BUILDING. PROVIDE SMOOTH FACE BLOCK BEHIND KNOXBOX AS REQUIRED TO MATCH ADJACENT BUILDING BLOCK
35. PROVIDE FULL AND COMPLETE TERMITE PROTECTION TREATMENT IN AND AROUND THE TOTAL BUILDING AREA AS NECESSARY, INCLUDING BUT NOT LIMITED TO: SOIL TREATMENT APPLICATIONS, WOOD TREATMENT SYSTEMS, AND BAIT-STATION MONITORING SYSTEMS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
36. INSTALL ALL REQUIRED FLASHING & WATERPROOFING MEMBRANES AT ALL OPENINGS TO MAINTAIN WATERPROOF BARRIER.
37. PROVIDE CONTINUOUS 1/2" EXPANSION JOINT MATERIAL AT ALL TRANSITIONS BETWEEN INTERIOR AND EXTERIOR PAVING.

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
NO. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

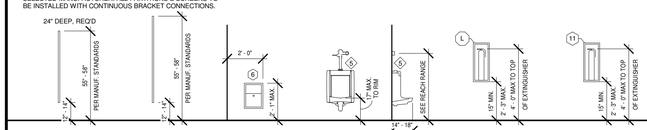
SHEET TITLE
GENERAL NOTES & ABBREVIATIONS

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

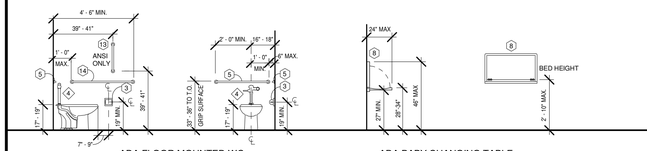
SHEET NO.
A0.01

MOUNTING HEIGHTS

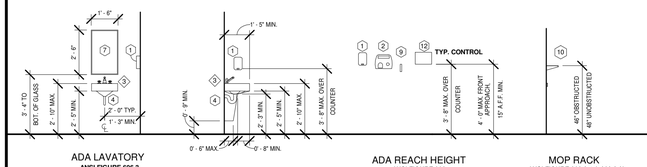
TOILET PARTITIONS AND URINAL SCREENS TO BE PROVIDED AT MANUFACTURER'S STANDARD PANEL SIZE. SIZE VARIES PER MANUFACTURER. DIMENSIONS PROVIDED INDICATE ACCEPTABLE RANGE AND WILL BE DETERMINED BY SELECTED MANUFACTURER. ALL PARTITIONS & SCREENS TO BE INSTALLED WITH CONTINUOUS BRACKET CONNECTIONS.



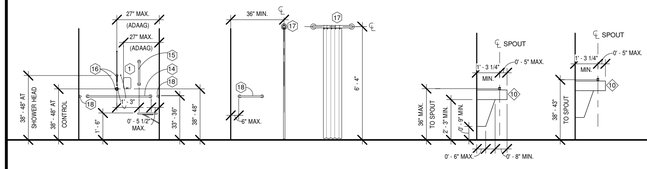
URINAL SCREEN | TOILET PARTITION | ADA SANITARY NAPKIN RECEPTACLE | ADA WALL MOUNTED URINAL (ANSI FIG. 605.2) | ADA FIRE EXTINGUISHER WITH CABINET - SEMI-RECESSED | ADA FIRE EXTINGUISHER WITH CABINET - SURFACE MOUNTED



ADA FLOOR MOUNTED WC (ANSI FIGURE 604.4, 604.5.1, 604.5.2 / ADAAG FIGURE 29, 30) | ADA BABY CHANGING TABLE (ANSI FIG. 308.2.2 / ADAAG FIGURE 5(b))



ADA LAVATORY (ANSI FIGURE 606.3 / ADAAG FIGURE 31) | ADA REACH HEIGHT (ANSI FIGURE 308 / ADAAG FIGURE 5, 6) | MOP RACK (ANSI FIGURE 308.2.1 & 308.3.2b / ADAAG FIGURE 38a)



ROLL-IN SHOWER WITH SEAT (ANSI FIGURE 608.3.2(b), 608.5.3 / ADAAG FIGURE 37) | HI-LO DRINKING FOUNTAIN (ANSI FIGURE 602.5, 606.3 / ADAAG FIG.27(a))

ACCESSORIES

1 LIQUID SOAP DISPENSER, WALL MOUNTED	11 ADA FIRE EXTINGUISHER WITH CABINET - SURFACE MOUNTED	21 12" x 48" PEDESTAL BENCH; FIXED
2 ELEC. HAND DRYER W/ ADA RECESS KIT	12 PAPER TOWEL DISPENSER	22 12"x12"x72" SINGLE METAL LOCKER UNIT, COLOR TBD FROM MANUF. STANDARD OPTIONS
3 TOILET PAPER DISPENSER	13 18" VERT. GRAB BAR, ANSI REQ'D ONLY	23 NOT USED
4 ADA DRAIN PIPE SHIELD / LAV. SHIELD - UNDER LAVATORY PIPE PROTECTION	14 42" HORIZONTAL GRAB BAR	24 NOT USED
5 36" HORIZONTAL GRAB BAR	15 24" VERT. GRAB BAR, ANSI REQ'D ONLY	25 66" x 36" MIRROR
6 SANITARY NAPKIN RECEPTACLE	16 SHOWER HEAD & CONTROL	26 LIQUID SOAP DISPENSER, COUNTER MOUNTED
7 18" W X 30" H MIRROR	17 SHOWER CURTAIN & TRACK	27 6' - 0" x 6' - 0" METAL LOCKER UNIT WITH HANGING BAR / COAT RACK & SIXTEEN (16) 12" x 12" LOCKERS, COLOR TBD FROM MANUF. STANDARD OPTIONS
8 BABY CHANGING STATION	18 24" HORIZONTAL GRAB BAR	
9 ROBE HOOK	19 FOLDING ADA SHOWER SEAT	28 18" x 48" ADA ACCESSIBLE PEDESTAL BENCH; FIXED
10 MOP RACK WITH SHELF ABOVE	20 ADULT CHANGING STATION	29 18" x 42" ADA ACCESSIBLE PEDESTAL BENCH; FIXED

*** ADA TOILET GRAB BARS TO BE 36" BEHIND WC, 42" AT SIDES, TYP. SEE SPEC. FOR TYPE.

NOTES:
1. **DIMENSIONS SHOWN ARE TO BE USED AS STANDARD GUIDELINES, U.N.O.**
2. **PROVIDE BLOCKING IN STUD WALLS AT ALL MOUNTING LOCATIONS, TYP.**
3. **REFER TO SPECS. FOR FINISHES & ADDITIONAL INFORMATION.**

FIXTURES AND EQUIPMENT

1 WATER HEATER	10 HI/LOW ADA DRINKING FOUNTAIN WITH BOTTLE FILLER
2 WALL-MOUNTED MULTI-STATION LAVATORY WASH FOUNTAIN	11 NOT USED
3 WALL MOUNTED SINK - ADA HEIGHT	12 ROOM SIGNAGE
4 WALL MOUNTED TOILET - ADA COMPLIANT	13 OUTDOOR RATED CEILING FAN WITH TIMER / PROGRAMMABLE FUNCTIONS, SEE SPECS.
5 WALL MOUNTED URINAL - ADA HEIGHT	
6 EXTERIOR HOSE BIB, FREEZEPROOF. SEE SPECS.	
7 INTERIOR HOSE BIB, SEE SPECS.	
8 NOT USED	
9 MOP SINK	

FOOD SERVICE EQUIPMENT SCHEDULE

NOTE: NOT ALL EQUIPMENT LISTED BELOW USED IN THIS PROJECT. REFER TO PLANS & ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT QUANTITIES AND LOCATIONS.

		UTILITY REQUIREMENTS				
		WATER	DRAIN	ELEC.	GAS	REMARKS
1	CONDIMENT STAND WITH BINS					
2	CANDY/CHIP DISPLAY					
3	FOOD DISPLAY WARMER			X		
4	COUNTER MICROWAVE			X		22.5" Wx20.5" Dx14.5" H; 1.2 CU. FT.
5	NACHO CHIP WARMER			X		
6	NACHO CHEESE WARMER/DISPENSER			X		
7	PRETZEL MACHINE			X		
8	PIZZA WARMER - COUNTER			X		
9	HOT DOG ROLLER AND STEAMER DRAWER			X		
10	HOT DOG BUN STORAGE DRAWER			X		
11	POPCORN MACHINE			X		
12	MISC. COUNTERTOP EQUIPMENT	X	X	X		VARIES; REFER TO DWGS & SPECS. FOR ADD'L INFO.
13						
14						
15						
16	COFFEE MACHINE - COUNTER, SINGLE POT			X		
17	COFFEE MACHINE - COUNTER, 3 - POT CAPACITY	X		X		
18	ICE MAKER & BIN - STANDING UNIT	X	X	X		
19	REFRIG. BEVERAGE MERCHANDISER			X		
20	UNDER-COUNTER REFRIGERATOR			X		
21						
22						
23						
24						
25	ADA HEIGHT WALL MOUNTED HAND SINK W/ ADA DRAIN PIPE SHIELD	X	X			SEE PLUMBING
26	STAINLESS STEEL HAND SINK	X	X			SEE PLUMBING
27	SMALL IN-COUNTER SS SERVICE SINK	X	X			SEE PLUMBING
28	STAINLESS STEEL 1 COMPARTMENT SINK	X	X			SEE PLUMBING
29	STAINLESS STEEL 2 COMPARTMENT SINK	X	X			SEE PLUMBING
30	STAINLESS STEEL 3 COMPARTMENT SINK	X	X			SEE PLUMBING
31	UTILITY / MOP SINK	X	X			SEE PLUMBING
32	FLOOR SINK		X			SEE PLUMBING
33	FLOOR DRAIN		X			SEE PLUMBING
34						
35						
36	ENERGY STAR SIDE BY SIDE REFRIGERATOR, COMMERCIAL GRADE			X		
37	ENERGY STAR SIDE BY SIDE UPRIGHT FREEZER, COMMERCIAL GRADE			X		54" W x 30" D
38	UNDER COUNTER REFRIGERATOR EQUIPMENT BASE W/ DRAWERS			X		72" W x 32" D x 24.5" H
39	REFRIGERATED STAINLESS STEEL SANDWICH PREP TABLE			X		27.5" W x 31" D x 42" H
40						
41						
42						
43						
44						
45						
46						
47						
48	PORTABLE GAS GRILL - **FOR OUTDOOR USE ONLY**					**STORED INDOORS WHEN NOT IN USE**

CASEWORK & MISCELLANEOUS EQUIPMENT

		UTILITY REQUIREMENTS				
		WATER	DRAIN	ELEC.	GAS	REMARKS
A	STAINLESS STEEL TRANSACTION COUNTERTOP					
B	BASE CABINET W/ PLASTIC LAMINATE COUNTERTOP					SEE INTERIOR DWGS
C	STAINLESS STEEL CONDIMENT COUNTER					
D	EXTERIOR WALL MOUNTED MENU BOARD WITH LOCKABLE GLASS PANELS - 24" W x 36" H					
E	STAINLESS STEEL WORK TABLE					
F	STAINLESS STEEL FREE-STANDING SHELVING					
G	STAINLESS STEEL WALL MOUNTED SHELVING					
H	PLYWOOD OPEN SHELVING					SEE INTERIOR DWGS
I	CASH TRAY - CONCESSION			X		
J	TRASH CAN					
K	SOAP DISPENSER					
L	PAPER TOWEL DISPENSER					
M	ADA FIRE EXTINGUISHER WITH CABINET - SEMI-RECESSED					
N	ADA FIRE EXTINGUISHER WITH CABINET - SURFACE MOUNTED					
O	STAINLESS STEEL SINK GUARD					
P	WALL GUARD AT UTILITY / MOP SINK					
Q	MOP RACK					
R	INSTANTANEOUS WATER HEATER	X		X		SEE NOTE # 4 BELOW; SEE MECH.
S	WORK DESK AND TASK CHAIR FURNITURE					
T	MISCELLANEOUS EQUIPMENT	X	X	X		VARIES; REFER TO DWGS & SPECS. FOR ADD'L INFO.
U	ROLL-DOWN COUNTER SHUTTER - LINK, INT. FULL COUNTER LENGTH					
V	ROLL-DOWN COUNTER SHUTTER - SOLID SLAT, INSULATED, FULL WINDOW WIDTH					
W	LOCKABLE DOUBLE SLIDING SERVICE WINDOW WITH INSULATED GLASS, SELF-CLOSING					
X	OVERHEAD FLY FAN			X		
Y	INTERIOR WALL MOUNTED MENU BOARD - 48" W x 36" H					

NOTES:
1. THIS TABLE IS INTENDED TO BE A GENERAL REFERENCE GUIDE ONLY. REFER TO THE PROJECT SPECIFICATIONS AND EQUIPMENT CUT SHEETS FOR ADDITIONAL INFORMATION REGARDING SPECIFIC EQUIPMENT AND ITS UTILITY REQUIREMENTS.
2. CONTRACTOR TO COORD. WITH OWNER FOR ANY AND ALL OWNER FURNISHED EQUIPMENT, AS APPLICABLE.
3. CONTRACTOR TO REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXHAUST, ELECTRICAL/POWER, AND PLUMBING/PIPING REQUIREMENTS FOR ALL FOOD SERVICE EQUIPMENT. COORDINATE ALL SERVICE RUNS WITH ALL APPLICABLE DISCIPLINES.
4. DROP-IN UNIT, CONTRACTOR TO COORD. WITH OWNER TO PROVIDE ELECTRICAL/POWER AND PLUMBING/PIPING AS REQUIRED BY EQUIPMENT.
5. REFER TO MANUFACTURER CUT SHEETS FOR FINISH OPTIONS.
6. REFER TO RCP FOR CEILING EQUIPMENT LAY-OUT COORDINATION W/ LIGHTING AND HVAC.

GRAPHIC SYMBOLS

WALL TYPES — A01 / S
- WALL TYPE FIRE RATING: A= 1 HR FIRE; B= 1 HR SMOKE; C= 2 HR FIRE; D= 2 HR SMOKE; N= NON RATED
- WALL TYPE NUMBER. SEE WALL LEGEND FOR ADDITIONAL CONSTRUCTION INFORMATION.
- SUPPLEMENTAL INFO. SEE "WALL NOTES" SECTION OF WALL LEGEND.

BUILDING SECTION — 1 / A101 — DETAIL NUMBER; SHEET NUMBER

WALL & DETAIL SECTION — 1 / A101 — DETAIL NUMBER; SHEET NUMBER

DETAIL CALLOUT — 1 / A101 — DETAIL NUMBER; SHEET NUMBER

INTERIOR ELEVATION — 1 / 4 A101 2 / 3 — INTERIOR ELEVATION NUMBER; SHEET NUMBER

EXTERIOR ELEVATION — 1 / A101 — EXTERIOR ELEVATION NUMBER; SHEET NUMBER

COLUMN GRID & BUBBLE — G

DOOR NUMBER — 101

WINDOW NUMBER — 1

ROOM NAME, ROOM NUMBER & AREA — Room name / 101 / 150 SF

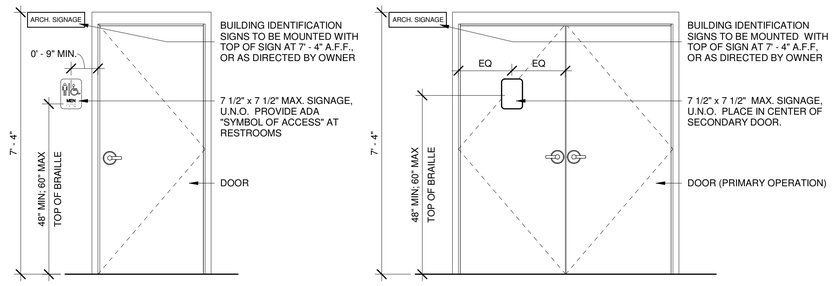
KEYNOTES (SEE LEGEND PER BUILDING) — E01

SLOPE DOWN ARROW

RCP LEGEND

- SURFACE MOUNTED DOWNLIGHT
- 2' x 2' LIGHT; RECESS UNITS AT A.C.T., TYP.
- 2' x 4' LIGHT; RECESS UNITS AT A.C.T., TYP.
- 8' LINEAR LIGHT
- RECESSED 2' x 2' SUPPLY GRILLE
- RECESSED 2' x 2' RETURN GRILLE
- M — MOTION SENSOR
- WALL PACK
- SD — SMOKE DETECTOR
- DATA OUTLET
- 1/2" GYP. BD., PAINTED AS SCHEDULED
- 1/2" FINISH GRADE PLYWOOD, PAINTED AS SCHEDULED
- CEILING FAN
- K — ACCESS HATCH

SIGNAGE LEGEND



SINGLE DOOR | DOUBLE DOOR

GENERAL NOTES:

1. EXTERIOR ARCHITECTURAL SIGNAGE MAY NOT BE APPROVED WITHIN THE SCOPE OF THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT MAY BE REQUIRED FOR EACH SIGN. VERIFY REQUIREMENTS WITH GOVERNING BODY HAVING JURISDICTION.
2. PROVIDE SIGNAGE AT ALL EXTERIOR DOOR LOCATIONS, AND INTERIOR DOORS AS SHOWN ON SIGNAGE PLAN / SCHEDULE. VERIFY WITH OWNER LOCATIONS AND VERBIAGE, SEE DETAILS ABOVE FOR MOUNTING HEIGHT.
3. ALL DOOR SIGNAGE SHALL INCLUDE BRAILLE AND RAISED LETTERING; MEET ALL ADA & LOCAL ACCESSIBILITY REQUIREMENTS.
4. ALL SIGNAGE TO BE 7 1/2" x 7 1/2" MAX., U.N.O.
5. PROVIDE SMOOTH FACE BLOCK (COLOR TO MATCH ADJACENT) AT ALL SIGNAGE LOCATIONS PLACED ON BLOCK WALLS.
6. ALL SIGNAGE TO BE MECHANICALLY ATTACHED TO WALL. USE GROMMETS AND STAINLESS STEEL, VANDAL RESISTANT SCREWS AT ALL SIGN CORNERS. CONSTRUCTION ADHESIVE, DOUBLE STICK OR FOAM TAPE IS NOT ACCEPTABLE.
7. PROVIDE SMOOTH, SOLID SURFACE BEHIND SIGNAGE FOR SOLID MOUNTING. NO GROOVES OR JOINTS ALLOWED BEHIND SIGNAGE.

LOSE DESIGN — SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH — REGISTERED ARCHITECT — AGRICULTURE — No. 105240 — STATE OF TENNESSEE — 02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR: CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

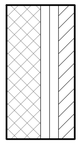
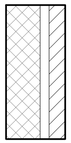
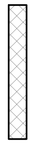
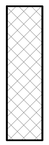
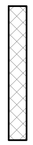
NO	DATE	DESCRIPTION

SHEET TITLE: **GENERAL NOTES & LEGENDS**

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO. A0.02

WALL LEGEND

	WALL CONSTRUCTION <AS APPLICABLE>	WALL RATING	WALL NUMBER	WALL DESCRIPTION
	INTERIOR / EXTERIOR			
	N	01	•	8" CMU, RUNNING BOND PATTERN; SEALED & PAINTED AS SCHEDULED WHERE EXPOSED • BITUMINOUS DAMPPROOFING • RIGID INSULATION, MIN. R-9.5 • 2" AIR GAP • BRICK VENEER WITH ADJUSTABLE TIES AT 16" O.C. MAX. HORIZONTAL & VERTICAL **CONCESSION & RESTROOM BUILDING EXTERIOR WALLS**
	N	02	•	8" CMU, RUNNING BOND PATTERN; SEALED & PAINTED AS SCHEDULED WHERE EXPOSED • BITUMINOUS DAMPPROOFING • 2" AIR GAP • BRICK VENEER WITH ADJUSTABLE TIES AT 16" O.C. MAX. HORIZONTAL & VERTICAL **CONCESSION & RESTROOM BUILDING COLUMN WRAPS**
	N	03	•	8" CMU, RUNNING BOND PATTERN; SEALED & PAINTED AS SCHEDULED WHERE EXPOSED **CONCESSION & RESTROOM BUILDING INTERIOR WALLS AS INDICATED**
	A	03	•	8" CMU, RUNNING BOND PATTERN; SEALED & PAINTED AS SCHEDULED WHERE EXPOSED **CONCESSION & RESTROOM INTERIOR WALLS AS INDICATED**
	N	04	•	2x4 WOOD STUDS AT 16" O.C. MAX. • 1/2" OSB SHEATHING • #30 FELT • 5/16" FIBER CEMENT BOARD LAP SIDING. PROVIDE 1x4 TRIM AT ALL PERIMETER EDGES & JOINTS, COLOR TO MATCH WALL, TYP. **BUILDINGS A - B: CUPOLA WALLS**
	N	05	•	TPO MEMBRANE SYSTEM • 1/2" OSB SHEATHING • ATTACHED TO PRE-ENGINEERED GIRDER TRUSSES **CONCESSION & RESTROOM MECHANICAL WALLS**
	N	06		NOT USED
	N	07		NOT USED
	N	08	•	8" CMU, INTEGRALLY COLORED SPLIT-FACE; SEALED **STORAGE SHED WALLS AS INDICATED**
	N	09		NOT USED
	N	10	•	8" CMU, RUNNING BOND PATTERN; INTEGRALLY COLORED SMOOTH FACE; SEALED **STORAGE SHED WALLS AS INDICATED**

WALL TAGS:

WALL TYPES — A 01 (1, 2)
- WALL TYPE FIRE RATING: A= 1 HR FIRE; B= 1 HR SMOKE; C= 2 HR FIRE; D= 2 HR SMOKE; N= NON RATED
- WALL TYPE NUMBER
- SUPPLEMENTAL WALL NOTES. SEE BELOW.

SUPPLEMENTAL WALL NOTES:

1	WALL HEIGHT: FROM GROUND UP TO 1' - 4" A.F.F.
2	WALL HEIGHT: FROM GROUND UP TO 4' - 0" A.F.F.
3	WALL HEIGHT: FROM GROUND UP TO 5' - 4" A.F.F.
4	WALL HEIGHT: FROM GROUND UP TO 7' - 4" A.F.F.
5	----
6	WALL HEIGHT: FROM 7' - 4" A.F.F. UP TO ROOF DECK
7	WALL HEIGHT: FROM GROUND UP TO 12'-0"
8	WALL HEIGHT: FROM GROUND UP TO 6" ABOVE CEILING
9	WALL HEIGHT: FROM ELEVATED FLOOR PLATE UP TO BOTTOM OF TRUSS
10	PROVIDE SOUND BATT INSULATION FROM FLOOR PLATE UP TO T.O. WALL.
11	PROVIDE CORE FILLED INSULATION FROM FLOOR PLATE UP TO T.O. WALL.
12	GROUT SOLID FIRST THREE COURSES.
13	PROVIDE BOX STUD HEADERS AND / OR ADDITIONAL SUPPORTS AND BRACING AS NEEDED.
14	
15	
16	
17	
18	
19	
20	

GENERAL WALL NOTES:

1. **REFER TO INDIVIDUAL BUILDING PLANS AND SECTIONS FOR INSULATION LOCATIONS AND ADDITIONAL INFORMATION.**
2. **INTERIOR EXPOSED SURFACE OF CMU TO BE PAINTED AS SCHEDULED. REFER TO INDIVIDUAL BUILDING FINISH PLANS & SCHEDULES FOR ADDITIONAL INFORMATION.**
3. **REFER TO UL LISTINGS FOR FIRE RATED INFORMATION.**

FINISH LEGEND AND NOTES

GENERAL FINISH NOTES:

- **APPROXIMATE FINISH LOCATIONS INDICATED BELOW. ACTUAL PROJECT FINISH LOCATION REQUIREMENTS ARE INDICATED & SCHEDULED WITH EACH BUILDING. REFER TO PLANS & ELEVATIONS FOR ADDITIONAL INFORMATION.**
- **ALL MANUFACTURER'S NAMES LISTED BELOW ARE BASIS OF DESIGN (B.O.D.); REFER TO SPECS. FOR ADDITIONAL INFORMATION.**

GENERAL PROJECT FINISH NOTES

- STANDING SEAM METAL ROOF SYSTEM. SEE ROOF DETAILS & SPECIFICATIONS FOR ADDITIONAL INFORMATION, TYP.
- INSULATED EXTERIOR METAL DOORS, PAINTED AS SCHEDULED.
- HOLLOW METAL INTERIOR DOORS, PAINTED AS SCHEDULED.
- FIBER CEMENT LAP SIDING WITH PERIMETER 1x4 BATTEN TRIM BOARDS, SEE FINISH LEGEND FOR COLOR.
- PRE-MANUFACTURED RIDGE CAP, COLOR TO MATCH ROOF, TYP.
- PRE-MANUFACTURED RIDGE VENT, COLOR TO MATCH ROOF, TYP.
- ALUMINUM HORIZONTAL SELF CLOSING INSULATED GLASS SERVICE WINDOW WITH TRACKLESS BOTTOM AT WINDOW OPENING, ANCHORED TO H.M. NON-RABBITED FRAME, WITH OVERHEAD COILING DOOR AND CONTINUOUS STAINLESS STEEL COUNTER.
- PRE-FINISHED ALUMINUM BOX GUTTER, MIN. 5x5; AND DOWNSPOUTS, MIN. 4x4. COORD. FINISH W/ ARCH. SEE CIVIL FOR CONNECTION TO U.G. LINES.
- 8" SMOOTH FACE CMU BLOCK, RUNNING BOND, SEALED & PAINTED AS SCHEDULED.
- PRE-ENGINEERED WOOD TRUSS, SEE STRUC.
- 8"x8" GLASS BLOCK, SEE SPECS.
- BRICK VENEER WAINSCOT WITH PRE-CAST STONE CAP. T.O. BRICK TO BE AT 5' - 4" A.F.F., TYP.
- 1x4 BATTEN TRIM AS INDICATED, COLOR TO MATCH FASCIA TRIM, TYP.
- POWDER COATED STEEL COLUMN WITH BRICK VENEER WAINSCOT, PRE-CAST WATER TABLE, & METAL PLATE CONNECTORS. SEE DETAILS & STRUC.
- POWDER COATED STEEL PILASTER WITH BRICK VENEER WAINSCOT, PRE-CAST WATER TABLE, & METAL PLATE CONNECTORS. SEE DETAILS & STRUC.
- FIBER CEMENT BOARD FASCIA AND SOFFIT.
- WALL MOUNTED CONCESSION MENU BOARD. EXTERIOR UNITS TO HAVE LOCKABLE GLASS PANELS.
- SURFACE MOUNTED FIRE EXTINGUISHER CABINET, SEE SPECS.
- HIGH-LOW ADA ACCESSIBLE DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE PLUMB.
- 3/4" PAINTED PLYWOOD BASE CABINETS WITH 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP. SEE CASEWORK SCHEDULE FOR FINISH INFORMATION.
- FIXED EXTERIOR ADA ACCESSIBLE PICNIC TABLE. SEE SPECIFICATIONS & CIVIL FOR ADDITIONAL INFORMATION.
- FIXED EXTERIOR PICNIC TABLE. SEE SPECIFICATIONS & CIVIL FOR ADDITIONAL INFORMATION.
- EXTERIOR COMMERCIAL HOSE BIBB, FREEZE PROOF. SEE PLUMB.
- TRENCH DRAIN. SEE PLUMBING.
- HEAVY TIMBER BEAM SYSTEM WITH STEEL BRACKETS. SEE STRUC.
- WALL MOUNTED PTAC UNIT, SEE MECH. GC TO COORD. WITH MANUF.
- ALL TOILET PARTITIONS TO HAVE CONTINUOUS BRACKETS, SEE SPECS.
- ALL URINAL SCREENS TO BE 23" D x 48" H & ARE TO HAVE CONTINUOUS BRACKETS, SEE SPECS.
- ALL DOORS TO HAVE CONTINUOUS HINGES, SEE SPECS.

RESTROOM PARTITIONS FINISHES

RP-1 SOLID COLOR REINFORCED COMPOSITE PARTITIONS & SCREENS WITH CONTINUOUS BRACKETS AT ALL LOCATIONS
BOBRICK SierraSeries 1090
COLOR: GOLDEN KHAKI SC01

GLAZING FINISHES

GB-1 8 x 8 GLASS BLOCK
BUILDINGS A & B: AS INDICATED

CGW-1 1" CLEAR INSULATED TEMPERED GLAZING, U.N.O.
BUILDINGS A & E: HORIZONTAL SLIDING WINDOWS AS INDICATED

EXTERIOR FINISHES

BK-1 BRICK VENEER - RUNNING BOND
GENERAL SHALE; DAVIDSON BLEND
BUILDINGS A - D: ALL EXTERIOR WALLS & COLUMN WRAPS AS INDICATED

BK-2 BRICK VENEER - SOLDIER COURSING
GENERAL SHALE; DAVIDSON BLEND
BUILDINGS A - D: ALL EXTERIOR WALLS & COLUMN WRAPS AS INDICATED

CMU-2 8" CMU - RUNNING BOND
INTEGRALLY COLORED SPLIT FACE
SEALED & FINISHED AS SCHEDULED
BUILDING F: EXTERIOR WALLS; COLOR TO MATCH BRICK ON BUILDINGS A - D

CMU-3 8" CMU - RUNNING BOND
INTEGRALLY COLORED SMOOTH FACE
SEALED & FINISHED AS SCHEDULED
BUILDING F: DIVIDING WALL; COLOR TO MATCH BRICK ON BUILDINGS A - D

FCB-1 FIBER CEMENT BOARD LAP SIDING;
B.O.D.: JAMES HARDIE CEDARMILL FINISH
COLOR: ARCTIC WHITE
BUILDINGS A - E: SCORING AREA & CUPOLA WALLS

FCB-2 FIBER CEMENT BOARD
B.O.D.: JAMES HARDIE SMOOTH FINISH
COLOR: ARCTIC WHITE
BUILDINGS A - F: TRIM, FASCIA & SOFFIT AS APPLICABLE

WD-1 STAINED & SEALED WOOD BEAMS
FINISH: SEMI-TRANSPARENT STAIN, COLOR TBD.
BUILDINGS A & B: COVERED PAVILION

TG-1 STAINED & SEALED TONGUE & GROOVE DECK
FINISH: SEMI-TRANSPARENT STAIN, COLOR TBD.
BUILDINGS C & D: COVERED PAVILION CEILING

MTL-1 POWDER COATED STEEL COLUMNS & BEAMS
COLOR MATCH TO:
POLIGON / PORTER CORP.
POLI-5000 HARBOR BLUE
BUILDINGS A, B, & E: EXPOSED STEEL AS INDICATED

MTL-2 POWDER COATED STEEL COLUMNS & BEAMS
POLIGON / PORTER CORP.
POLI-5000 HARBOR BLUE
BUILDINGS C & D: EXPOSED STEEL AS INDICATED

SSMR-1 STANDING SEAM METAL ROOF
PAC-CLAD
COLOR: GRANITE
BUILDINGS A, B, & E: AS INDICATED

SSMR-2 STANDING SEAM METAL ROOF
POLIGON / PORTER CORP.
COOL ROOF KYNAR 500; COLOR: ASH GRAY
BUILDINGS C & D: AS INDICATED

MGD-1 METAL GUTTERS & DOWNSPOUTS,
COLOR TO MATCH SSMR
BUILDINGS A - D: AS INDICATED

DOOR FINISHES

MTL-1 INSULATED EXTERIOR METAL DOORS WITH HOLLOW METAL FRAMES; DOOR & FRAME TO BE PRIMED & PAINTED WITH EPOXY PAINT, U.N.O.
COLOR: PNT-3
ALL EXTERIOR DOORS, U.N.O.

H.M. HOLLOW METAL DOORS AND FRAMES, DOOR & FRAME TO BE PRIMED & PAINTED WITH EPOXY PAINT, U.N.O.
COLOR: PNT-3
ALL INTERIOR DOORS, U.N.O.

CW-1 EXTERIOR ROLL-UP COILING SHUTTER DOOR WITH HORIZONTAL LOCKABLE SLIDING TRANSACTION WINDOW
COLOR: ANODIZED ALUMINUM
BUILDING A: CONCESSION WINDOWS

CASEWORK FINISHES

PL-1 PLASTIC LAMINATE
COLOR / PATTERN: T.B.D.
BUILDINGS A & E: CONCESSIONS COUNTERS & SCORING AREA COUNTERS

FP-1 3/4" FINISH GRADE PLYWOOD APA RATED A-C FINISH BOTH SIDES FOR PAINTING; PAINT WITH EPOXY PAINT, U.N.O.
COLOR: T.B.D.
BUILDING A: CONCESSIONS CABINETS & SHELVING

WALL FINISHES

PLY-1 3/4" FRT PAINTED PLYWOOD
COLOR: PNT-1
BUILDING A: ALL IT ROOM WALLS UP TO 8' - 0" A.F.F., THEN PAINTED CMU AS SCHEDULED ABOVE

GYP-1 GYPSUM BOARD WALL
COLOR: PNT-1
BUILDING E: SCORING AREA WALLS

CMU-1 CMU WALL, SEALED & PAINTED AS SCHEDULED. SEE INDIVIDUAL BUILDINGS FOR ADDITIONAL FINISH INFORMATION.

PNT-1 EPOXY PAINT
COLOR: T.B.D.
BUILDINGS A, B, & E: FIELD / NEUTRAL COLOR FOR INTERIOR WALLS & CEILINGS

PNT-2 EPOXY PAINT
COLOR: T.B.D.
BUILDINGS A & B: ACCENT WALL COLOR AS INDICATED

PNT-3 EPOXY PAINT
COLOR: T.B.D.
ALL BUILDINGS: DOOR & FRAME COLOR

PNT-4 EPOXY PAINT
COLOR: T.B.D.
BUILDING A: CONCESSIONS CABINETS & SHELVING

EP-1 EPOXY COATING UP TO 4' - 0" A.F.F.
COLOR: T.B.D.
BUILDINGS A & B: WALLS AS INDICATED

CEILING FINISHES

PLY-2 1/2" FINISH GRADE PLYWOOD APA RATED A-C EXTERIOR WITH "A" FACE EXPOSED FOR PAINTING; PAINT WITH PNT-1, U.N.O.
BUILDINGS A & B: ALL ENCLOSED NON-RATED ROOMS

GYP-2 1/2" TYPE X GYP BOARD, INSTALLED PER UL REQ; PAINT WITH PNT-1, U.N.O.
BUILDINGS A & B: ALL ENCLOSED 1-HOUR RATED ROOMS

GYP-3 1/2" GYP BOARD, PAINT WITH PNT-1, U.N.O.
BUILDING E: SCORING AREA

NOTE: ALL PLYWOOD CEILINGS TO RECEIVE 2x2 TRIM, PAINTED TO MATCH CEILING, AT ALL WALLS & ALL JOINTS, TYP.

FLOORING FINISHES

SC-1 SEALED CONCRETE - BRUSHED FINISH
BUILDINGS A & B: EXTERIOR COVERED AREAS

SC-2 SEALED CONCRETE - SMOOTH, POLISHED FINISH
BUILDINGS A & B: UTILITY / STORAGE AREAS AS INDICATED

EP-1 EPOXY FLOORING
COLOR: T.B.D.
BUILDINGS A & B: RESTROOMS & CONCESSIONS

SDT-1 ARMSTRONG STATIC DISSIPATIVE TILE;
EXCELON SDT, FOSSIL GRAY - 51956;
QUARTER TURNED
BUILDINGS A & E: IT ROOMS & SCORING AREA

AT-1 ARTIFICIAL TURF;
T.B.D.
BUILDINGS C & D: BATTING CAGE & BULLPEN PAVILIONS

BASE FINISHES

RB-1 RUBBERBASE - 4" COVE;
COLOR: T.B.D.
BUILDING E: SCORING AREA

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
No. 105240
02-25-21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
GENERAL NOTES, WALL TYPES, & FINISHES

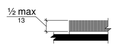
PROJECT NO. 18052-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A0.03

CHAPTER 3 2010 BUILDING BLOCKS

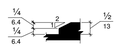
CONVENTION	DESCRIPTION
36 / 915	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
6 / 150	dimension for small measurements
33" - 36" / 840 MM -915 MM	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

1 A0.05 GRAPHIC CONVENTION FOR FIGURES
1/2" = 1'-0" FIGURE 104 CH 1

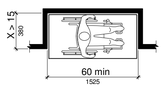


2 A0.05 CARPET PILE HEIGHT
1 : 3 FIGURE 302.2

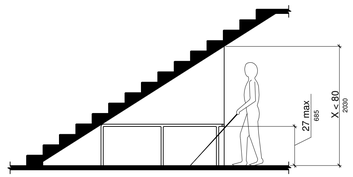
3 A0.05 VERTICAL CHANGE IN LEVEL
1 : 3 FIGURE 303.2



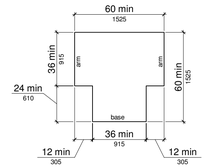
4 A0.05 BEVELED CHANGE IN LEVEL
1 : 3 FIGURE 303.3



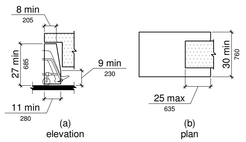
9 A0.05 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH
1/4" = 1'-0" FIGURE 305.7.2



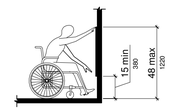
14 A0.05 VERTICAL CLEARANCE
1/4" = 1'-0" FIGURE 307.4



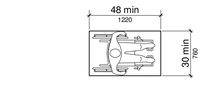
5 A0.05 T-SHAPED TURNING SPACE
1/4" = 1'-0" FIGURE 304.3.2



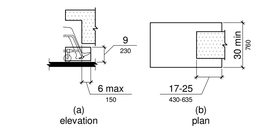
10 A0.05 KNEE CLEARANCE
1/4" = 1'-0" FIGURE 306.2



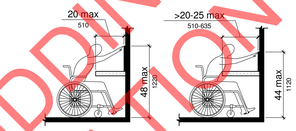
15 A0.05 UNOBSTRUCTED FORWARD REACH
1/4" = 1'-0" FIGURE 308.2.1



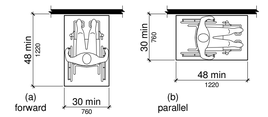
6 A0.05 CLEAR FLOOR OR GROUND SPACE
1/4" = 1'-0" FIGURE 305.3



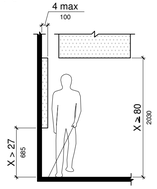
11 A0.05 TOE CLEARANCE
1/4" = 1'-0" FIGURE 306.3



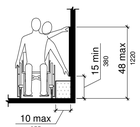
16 A0.05 OBSTRUCTED HIGH FORWARD REACH
1/4" = 1'-0" FIGURE 308.2.2



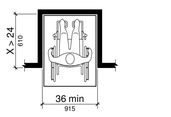
7 A0.05 POSITION OF CLEAR FLOOR OR GROUND SPACE
1/4" = 1'-0" FIGURE 305.5



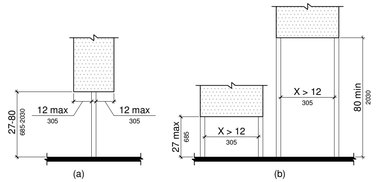
12 A0.05 LIMITS OF PROTRUDING OBJECTS
1/4" = 1'-0" FIGURE 307.2



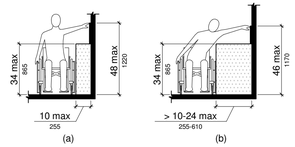
17 A0.05 UNOBSTRUCTED SIDE REACH
1/4" = 1'-0" FIGURE 308.3.1



8 A0.05 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH
1/4" = 1'-0" FIGURE 305.7.1

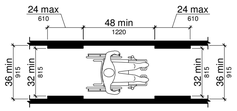


13 A0.05 POST-MOUNTED PROTRUDING OBJECTS
1/4" = 1'-0" FIGURE 307.3

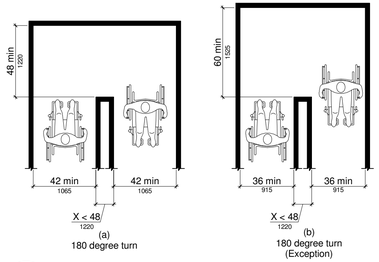


18 A0.05 OBSTRUCTED HIGH SIDE REACH
1/4" = 1'-0" FIGURE 308.3.2

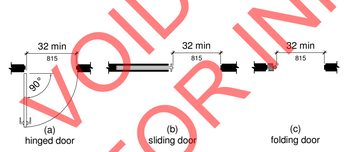
CHAPTER 4 2010 ACCESSIBLE ROUTES



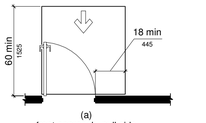
19 A0.05 CLEAR WIDTH OF AN ACCESSIBLE ROUTE
1/4" = 1'-0" FIGURE 403.5.1



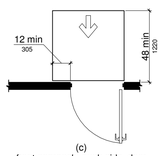
20 A0.05 CLEAR WIDTH AT TURN
1/4" = 1'-0" FIGURE 403.5.2



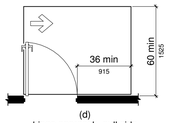
21 A0.05 CLEAR WIDTH OF DOORWAYS
1/4" = 1'-0" FIGURE 404.2.3



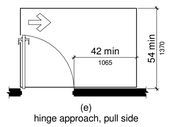
22 A0.05 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS & GATES
1/4" = 1'-0" FIGURE 404.2.4.1



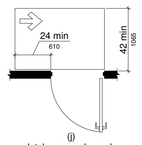
23 A0.05 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS & GATES
1/4" = 1'-0" FIGURE 404.2.4.1



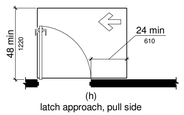
24 A0.05 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS & GATES
1/4" = 1'-0" FIGURE 404.2.4.1



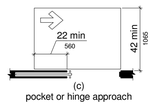
25 A0.05 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS & GATES
1/4" = 1'-0" FIGURE 404.2.4.1



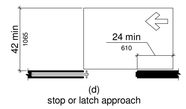
26 A0.05 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS & GATES
1/4" = 1'-0" FIGURE 404.2.4.1



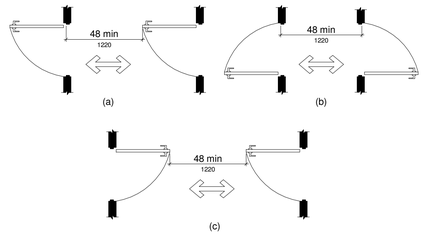
27 A0.05 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS & GATES
1/4" = 1'-0" FIGURE 404.2.4.1



28 A0.05 MANEUVERING CLEARANCE AT SLIDING & FOLDING DOORS
1/4" = 1'-0" FIGURE 404.2.4.2



29 A0.05 MANEUVERING CLEARANCE AT SLIDING & FOLDING DOORS
1/4" = 1'-0" FIGURE 404.2.4.2



30 A0.05 DOORS IN SERIES & GATES IN SERIES
1/4" = 1'-0" FIGURE 404.2.6

NOTES:

- **ADA STANDARDS ARE PROVIDED AS REFERENCE ONLY.**
- **ALL BUILDING COMPONENTS MUST COMPLY WITH ALL ADA GUIDELINES.**
- **REFER TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PUBLICATION FOR ADDITIONAL INFORMATION.**
- **PROVIDE BLOCKING AT ALL STUD WALLS FOR ALL HANDRAILS, TYP.**
- **PROVIDE BLOCKING AT ALL STUD WALLS FOR OTHER WALL MOUNTED ITEMS AS NEEDED, TYP.**

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED
ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN

SUBMITTALS / REVISIONS

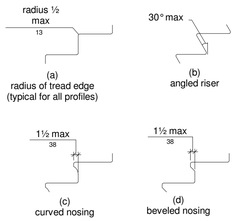
NO	DATE	DESCRIPTION

SHEET TITLE
ADA STANDARDS

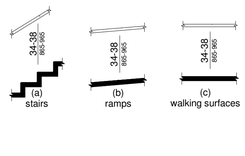
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	As indicated
CHECKED BY	
SG	

SHEET NO.
A0.05

CHAPTER 5 2010 GENERAL SITE AND BUILDING ELEMENTS



1 A0.06 STAIR NOSINGS
1/2" = 1'-0" FIGURE 504.5



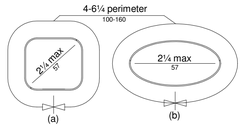
2 A0.06 HANDRAIL HEIGHT
1/4" = 1'-0" FIGURE 505.4

3 A0.06 HANDRAIL CLEARANCE
1" = 1'-0" FIGURE 505.5

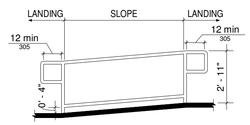
4 A0.06 HORIZONTAL PROJECTIONS BELOW GRIPPING SURFACE
1" = 1'-0" FIGURE 505.6

NOTES:

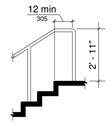
- **ADA STANDARDS ARE PROVIDED AS REFERENCE ONLY.**
- **ALL BUILDING COMPONENTS MUST COMPLY WITH ALL ADA GUIDELINES.**
- **REFER TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PUBLICATION FOR ADDITIONAL INFORMATION.**
- **PROVIDE BLOCKING AT ALL STUD WALLS FOR ALL HANDRAILS, TYP.**
- **PROVIDE BLOCKING AT ALL STUD WALLS FOR OTHER WALL MOUNTED ITEMS AS NEEDED, TYP.**



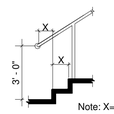
5 A0.06 HANDRAIL NON-CIRCULAR CROSS SECTION
3/8" = 1'-0" FIGURE 505.7.2



6 A0.06 TOP & BOTTOM HANDRAIL EXTENSIONS AT RAMPS
1/4" = 1'-0" FIGURE 505.10.1



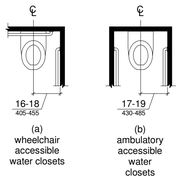
7 A0.06 TOP HANDRAIL EXTENSION AT STAIRS
1/4" = 1'-0" FIGURE 505.10.2



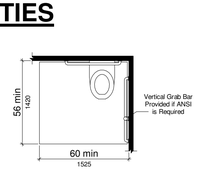
8 A0.06 BOTTOM HANDRAIL EXTENSION AT STAIRS
1/4" = 1'-0" FIGURE 505.10.3

CHAPTER 6 2010 PLUMBING ELEMENTS AND FACILITIES

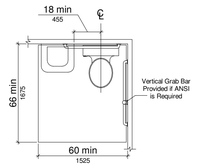
9 A0.06 DRINKING FOUNTAIN SPOUT LOCATION
1/4" = 1'-0" FIGURE 602.5



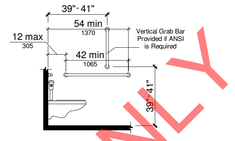
10 A0.06 WATER CLOSET LOCATION
1/4" = 1'-0" FIGURE 604.2



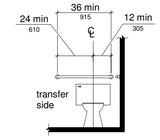
11 A0.06 SIZE & CLEARANCE OF WATER CLOSETS
1/4" = 1'-0" FIGURE 604.3.1



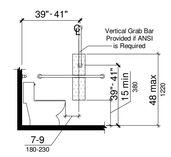
12 A0.06 EXCEPTION - OVERLAP OF WATER CLOSET CLEARANCE IN RESIDENTIAL DWELLINGS
1/4" = 1'-0" FIGURE 604.3.2



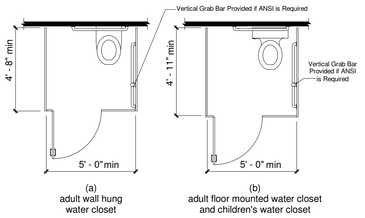
13 A0.06 SIDE WALL GRAB BAR AT WATER CLOSETS
1/4" = 1'-0" FIGURE 604.5.1



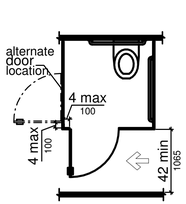
14 A0.06 REAR WALL GRAB BAR AT WATER CLOSETS
1/4" = 1'-0" FIGURE 604.5.2



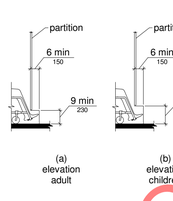
15 A0.06 DISPENSER OUTLET LOCATION
1/4" = 1'-0" FIGURE 604.7



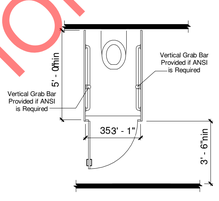
16 A0.06 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT
1/4" = 1'-0" FIGURE 604.8.1.1



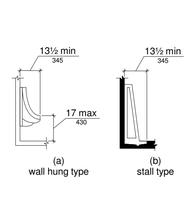
17 A0.06 Wheelchair Accessible Toilet Compartment Doors
1/4" = 1'-0"



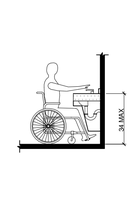
18 A0.06 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE
1/4" = 1'-0" FIGURE 604.8.1.4



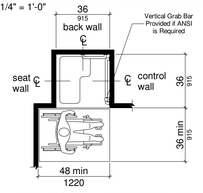
19 A0.06 AMBULATORY ACCESSIBLE TOILET COMPARTMENT
1/4" = 1'-0" FIGURE 604.8.2



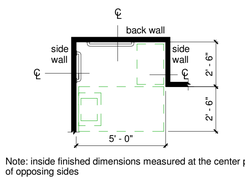
20 A0.06 HEIGHT AND DEPTH OF URINALS
1/4" = 1'-0" FIGURE 605.2



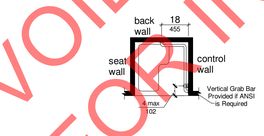
21 A0.06 HEIGHT OF LAVATORIES AND SINKS
1/4" = 1'-0" FIGURE 606.3 ANSI



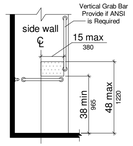
22 A0.06 TRANSFER TYPE SHOWER COMPARTMENT SIZE & CLEARANCE
1/4" = 1'-0" FIGURE 608.2.1



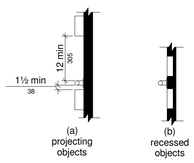
23 A0.06 GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS
1/4" = 1'-0" FIGURE 608.2.2



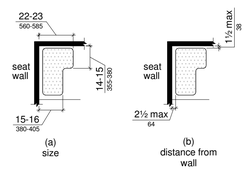
24 A0.06 GRAB BARS FOR TRANSFER TYPE SHOWERS
1/4" = 1'-0" FIGURE 608.3.1



25 A0.06 TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION
1/4" = 1'-0" FIGURE 608.5.1

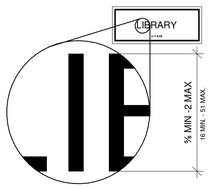


26 A0.06 SPACING OF GRAB BARS
1/2" = 1'-0" FIGURE 609.3

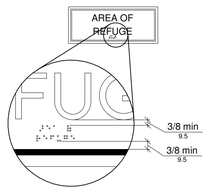


27 A0.06 L-SHAPED SHOWER SEAT
1/4" = 1'-0" FIGURE 610.3.2

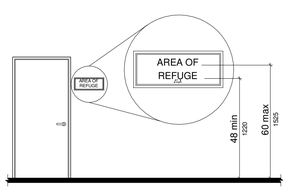
CHAPTER 7 2010 COMMUNICATION ELEMENTS AND FEATURES



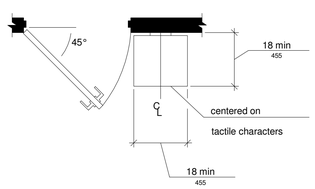
28 A0.06 HEIGHT OF RAISED CHARACTERS
1/2" = 1' - 0" FIGURE 703.2.5



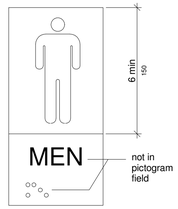
29 A0.06 POSITION OF BRAILLE
1/2" = 1' -0" FIGURE 703.3.2



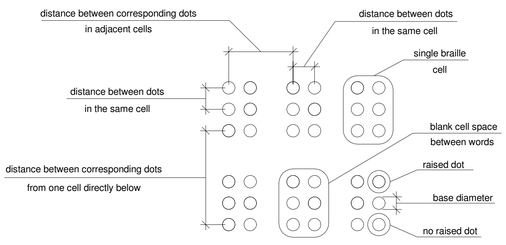
30 A0.06 HEIGHT OF TACTILE CHARACTERS ABOVE FLOOR OR GROUND
1/4" = 1'-0" FIGURE 703.4.1



31 A0.06 LOCATION OF TACTILE SIGNS AT DOORS
1/2" = 1'-0" FIGURE 703.4.2



32 A0.06 PICTOGRAM FIELD
1/2" = 1'-0" FIGURE 703.6.1



33 A0.06 BRAILLE MEASUREMENT
12" = 1'-0" FIGURE 703.3.1

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
ARCHITECTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ADA STANDARDS

PROJECT NO.	DATE
18052-3	02/25/2021
DRAWN BY	SCALE
AS, DA	As indicated
CHECKED BY	
SG	

SHEET NO.
A0.06

CHAPTER 7 CONT. 2010 COMMUNICATION ELEMENTS AND FEATURES

1 A0.07 — INTERNATIONAL SYMBOL OF ACCESSIBILITY
12" = 1'-0" — FIGURE 703.7.2.1

2 A0.07 — INTERNATIONAL TTY SYMBOL
12" = 1'-0" — FIGURE 703.7.2.2

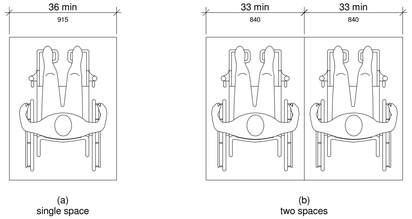
3 A0.07 — VOLUME-CONTROLLED TELEPHONE
12" = 1'-0" — FIGURE 703.7.2.3

4 A0.07 — INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS
12" = 1'-0" — FIGURE 703.7.2.4

NOTES:

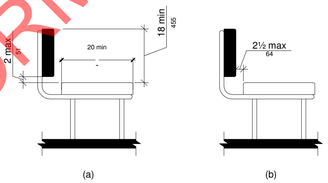
- ADA STANDARDS ARE PROVIDED AS REFERENCE ONLY.
- ALL BUILDING COMPONENTS MUST COMPLY WITH ALL ADA GUIDELINES.
- REFER TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PUBLICATION FOR ADDITIONAL INFORMATION.
- PROVIDE BLOCKING AT ALL STUD WALLS FOR ALL HANDRAILS, TYP.
- PROVIDE BLOCKING AT ALL STUD WALLS FOR OTHER WALL MOUNTED ITEMS AS NEEDED, TYP.

CHAPTER 8 2010 SPECIAL ROOMS, SPACES, AND ELEMENTS

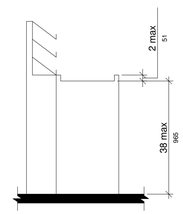


5 A0.07 — WIDTH OF WHEELCHAIR SPACES IN ASSEMBLY AREAS
1/2" = 1'-0" — FIGURE 802.1.2

CHAPTER 9 2010 BUILT-IN ELEMENTS

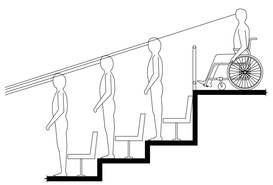


6 A0.07 — BENCH BACK SUPPORT
1/2" = 1'-0" — FIGURE 903.4

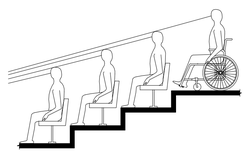


7 A0.07 — CHECK-OUT AISLE COUNTERS
1/2" = 1'-0" — FIGURE 904.3.2

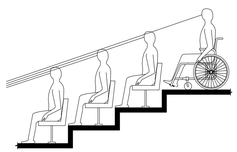
MISCELLANEOUS 2010 ADA



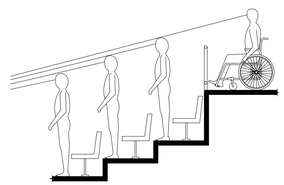
8 A0.07 — LINES OF SIGHT BETWEEN THE HEADS OF STANDING SPECTATORS
1/4" = 1'-0" — FIGURE 802.2.2.2 CH.8



9 A0.07 — LINES OF SIGHT OVER THE HEADS OF SEATED SPECTATORS
1/4" = 1'-0" — FIGURE 802.2.2.1 CH.8



10 A0.07 — LINES OF SIGHT BETWEEN THE HEADS OF SEATED SPECTATORS
1/4" = 1'-0" — FIGURE 802.2.1.2 CH.8



11 A0.07 — LINES OF SIGHT OVER THE HEADS OF STANDING SPECTATORS
1/4" = 1'-0" — FIGURE 802.2.1.1 CH.8

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ADA STANDARDS

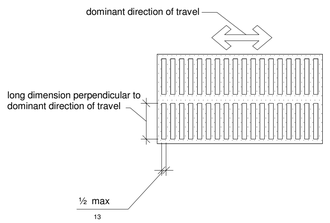
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: As indicated
CHECKED BY: SG	

SHEET NO.
A0.07

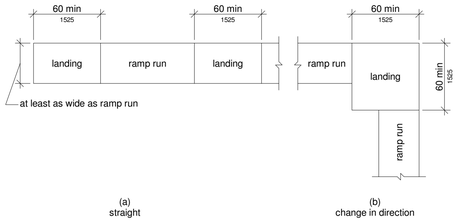
MISCELLANEOUS 2010 ADA

NOTES:

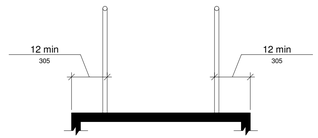
- **ADA STANDARDS ARE PROVIDED AS REFERENCE ONLY.**
- **ALL BUILDING COMPONENTS MUST COMPLY WITH ALL ADA GUIDELINES.**
- **REFER TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PUBLICATION FOR ADDITIONAL INFORMATION.**
- **PROVIDE BLOCKING AT ALL STUD WALLS FOR ALL HANDRAILS, TYP.**
- **PROVIDE BLOCKING AT ALL STUD WALLS FOR OTHER WALL MOUNTED ITEMS AS NEEDED, TYP.**



1 A0.08 — ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES
1 1/2" = 1'-0" — FIGURE 302.3 CH.3

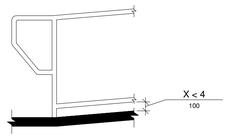


2 A0.08 — RAMP LANDINGS
3/16" = 1'-0" — FIGURE 405.7 CH.4

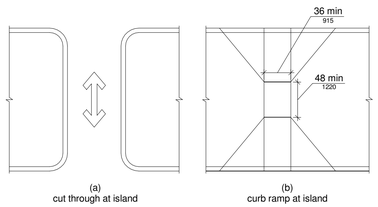


3 A0.08 — EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION
1/2" = 1'-0" — FIGURE 405.9.1 CH.4

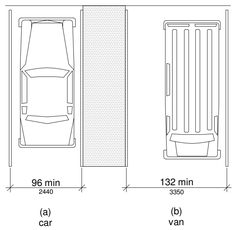
4 A0.08 — COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS
6" = 1'-0" — FIGURE 405.6 CH.4



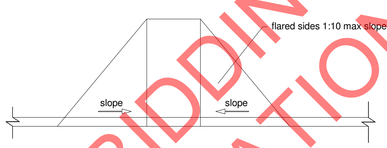
5 A0.08 — CURB OR BARRIER EDGE PROTECTION
1/2" = 1'-0" — FIGURE 405.9.2 CH.4



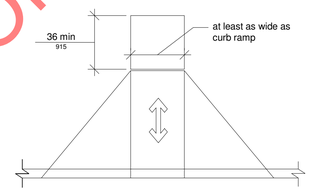
6 A0.08 — ISLANDS IN CROSSINGS
1/8" = 1'-0" — FIGURE 406.7 CH.4



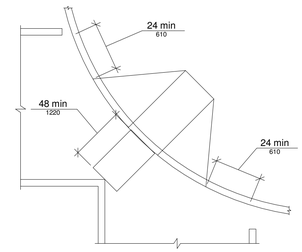
7 A0.08 — VEHICLE PARKING SPACES
1/8" = 1'-0" — FIGURE 502.2 CH.5



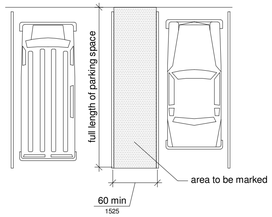
8 A0.08 — SIDES OF CURB RAMPS
1/4" = 1'-0" — FIGURE 406.3 CH.4



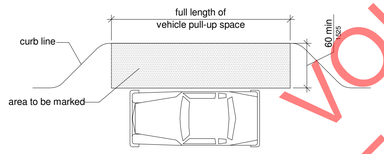
9 A0.08 — LANDINGS AT THE TOP OF CURB RAMPS
1/4" = 1'-0" — FIGURE 406.4 CH.4



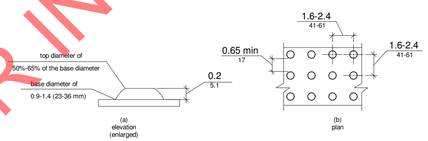
10 A0.08 — DIAGONAL OR CORNER TYPE CURB RAMPS
3/16" = 1'-0" — FIGURE 406.6 CH.4



11 A0.08 — PARKING SPACE ACCESS AISLE
1/8" = 1'-0" — FIGURE 502.3 CH.5



12 A0.08 — PASSENGER LOADING ZONE ACCESS AISLE
1/8" = 1'-0" — FIGURE 503.3 CH.5



13 A0.08 — SIZE AND SPACING OF TRUNCATED DOMES
1 1/2" = 1'-0" — FIGURE 705.1 CH.7

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
ARCHITECTURE
No. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ADA STANDARDS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: As indicated
CHECKED BY: SG	

SHEET NO.
A0.08

BUILDING CODE REVIEW

I. APPLICABLE CODES

1. 2018 INTERNATIONAL BUILDING CODE INCLUDING APPENDICES D, G, AND K
2. 2018 INTERNATIONAL ENERGY CONSERVATION CODE
3. 2018 INTERNATIONAL FIRE CODE INCLUDING APPENDICES B, C, AND D
4. 2018 NFPA LIFE SAFETY CODE 101
5. 2017 NATIONAL ELECTRIC CODE
6. 2018 INTERNATIONAL PLUMBING CODE
7. 2018 INTERNATIONAL MECHANICAL CODE
8. 2018 INTERNATIONAL FUEL GAS CODE
9. 2017 ICC A 117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIE
10. 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE

II. OCCUPANCY TYPES

1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	ASSEMBLY GROUP A-3	(IBC 304) WITHOUT SPRINKLER
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	ASSEMBLY GROUP A-3	(IBC 304) WITHOUT SPRINKLER
3.	**BLDG C -**	**NOT USED**		
4.	**BLDG D -**	**NOT USED**		
5.	**BLDG E -**	**NOT USED**		
6.	**BLDG F -**	**MATERIALS STORAGE SHED:**	UTILITY GROUP U	(IBC 304) WITHOUT SPRINKLER

III. CONSTRUCTION TYPE:

1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	TYPE V-B (UN-PROTECTED, NON-SPRINKLED), IBC 602.5
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	TYPE V-B (UN-PROTECTED, NON-SPRINKLED), IBC 602.5
3.	**BLDG C -**	**NOT USED**	
4.	**BLDG D -**	**NOT USED**	
5.	**BLDG E -**	**NOT USED**	
6.	**BLDG F -**	**MATERIALS STORAGE SHED:**	TYPE V-B (UN-PROTECTED, NON-SPRINKLED), IBC 602.5

IV. BUILDING HEIGHT (IBC TABLE 504.3) NUMBER OF STORIES (IBC TABLE 504.4) AND BUILDING AREAS (IBC TABLE 506.2)

A. BUILDING HEIGHT:

			MAXIMUM ALLOWED / ACTUAL PROVIDED:	**MAXIMUM ALLOWED / ACTUAL PROVIDED:**
	ACTUAL:			
1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	40' - 0" / 27' - 10"	1 STORY / 1 STORY
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	40' - 0" / 27' - 10"	1 STORY / 1 STORY
3.	**BLDG C -**	**NOT USED**		
4.	**BLDG D -**	**NOT USED**		
5.	**BLDG E -**	**NOT USED**		
6.	**BLDG F-**	**MATERIALS STORAGE SHED:**	40' - 0" / 12' - 0"	1 STORY / 1 STORY

B. BUILDING AREAS (B - BUSINESS GROUP):

	ACTUAL CONSTRUCTED AREA CALCULATIONS:		QUANTITY	MAXIMUM AREA ALLOWED / ACTUAL PROVIDED AREA: (PER BUILDING - GROSS SF)	TOTAL BUILT SF: (OVERALL - GROSS)
1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	1	6,000 SF / 2,536 SF	2,536 SF
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	1	6,000 SF / 2,536 SF	2,536 SF
3.	**BLDG C -**	**NOT USED**			
4.	**BLDG D -**	**NOT USED**			
5.	**BLDG E -**	**NOT USED**			
6.	**BLDG F -**	**MATERIALS STORAGE SHED:**	1	5,500 SF / 326 SF	326 SF
	AGGREGATE BUILDING AREA SF:	**TOTAL BUILDINGS =**	**3**	**TOTAL BUILT AREA =**	**5,398 SF**

VI. CONSTRUCTION REQUIREMENTS (LSC TABLE A.8.2.1.2, IBC TABLE 601 & 602, IBC 705)

1. FIRE RESISTANCE FOR PRIMARY STRUCTURAL FRAME (IBC TABLE 601): [G]
   TYPE V-B: 0 HR.
2. FIRE RESISTANCE FOR EXTERIOR BEARING WALLS: [F,G,a,e,h]
   TYPE V-B: 1 HR FOR FIRE SEPARATION DISTANCE OF LESS THAN 10 FT. (IBC TABLE 602). [c]
   TYPE V-B: 0 HR FOR FIRE SEPARATION DISTANCE OF GREATER THAN 10 FT TO LESS THAN 30 FT. (IBC TABLE 602). [c]
   TYPE V-B: 0 HR FOR FIRE SEPARATION DISTANCE OF GREATER THAN 30 FT. (IBC TABLE 602). [c]

VI. CONSTRUCTION REQUIREMENTS (LSC TABLE A.8.2.1.2, IBC TABLE 601 & 602, IBC 705) - CONTINUED

3. FIRE RESISTANCE FOR INTERIOR BEARING WALLS:
   TYPE V-B: 0 HR (IBC TABLE 601).
4. EXTERIOR NON-BEARING, NON-COMBUSTIBLE WALL:
   TYPE V-B: 1 HR FOR FIRE SEPARATION DISTANCE OF LESS THAN 10 FT. (IBC TABLE 602). [c]
   TYPE V-B: 0 HR FOR FIRE SEPARATION DISTANCE OF GREATER THAN 10 FT TO LESS THAN 30 FT. (IBC TABLE 602). [c]
   TYPE V-B: 0 HR FOR FIRE SEPARATION DISTANCE OF GREATER THAN 30 FT. (IBC TABLE 602). [c]
5. FIRE RESISTANCE FOR INTERIOR NON-BEARING WALLS: [E]
   TYPE V-B: 0 HR (IBC TABLE 601).
6. FIRE RESISTANCE FOR FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS (FLOOR/CEILING CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOIST):
   TYPE V-B: 0 HR.
7. FIRE RESISTANCE FOR ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS (IBC TABLE 601):
   TYPE V-B: 0 HR.

PER IBC TABLE 601:

A. ROOF SUPPORTS: FIRE-RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCE BY 1 HOUR WHERE SUPPORTING A ROOF ONLY.
B. EXCEPT IN GROUP F-1, H, M, AND S-1 OCCUPANCIES, FIRE PROTECTION OF STRUCTURAL MEMBERS SHALL NOT BE REQUIRED, INCLUDING PROTECTION OF ROOF FRAMING AND DECKING WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 20 FT OR MORE ABOVE ANY FLOOR IMMEDIATELY BELOW. FIRE-RETARDANT-TREATED WOOD MEMBERS SHALL BE ALLOWED TO BE USED FOR SUCH UNPROTECTED MEMBERS.
C. IN ALL OCCUPANCIES, HEAVY TIMBER SHALL BE ALLOWED WHERE A 1-HOUR OR LESS FIRE-RESISTANCE RATING IS REQUIRED.
D. AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 SHALL BE ALLOWED TO BE SUBSTITUTED FOR 1-HOUR FIRE RESISTANCE CONSTRUCTION, PROVIDED SUCH SYSTEM IS NOT OTHERWISE REQUIRED BY OTHER PROVISIONS OF THE CODE OR USED FOR AN ALLOWABLE AREA INCREASE IN ACCORDANCE WITH SECTION 506.3 OR AN ALLOWABLE HEIGHT INCREASE IN ACCORDANCE WITH SECTION 504.2. THE 1-HOUR SUBSTITUTION FOR THE FIRE RESISTANCE OF EXTERIOR WALLS SHALL NOT BE PERMITTED.
E. NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED BY OTHER SECTIONS OF THIS CODE.
F. NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE (PER IBC TABLE 602).
G. NOT LESS THAN THE FIRE-RESISTANCE RATING AS REFERENCED IN SECTION 704.10.

PER IBC TABLE 602:

a. LOAD-BEARING EXTERIOR WALLS SHALL ALSO COMPLY WITH THE FIRE-RESISTANCE RATING REQUIREMENTS OF IBC TABLE 601.
b. FOR SPECIAL REQUIREMENTS FOR GROUP U OCCUPANCIES, SEE SECTION 406.3.
c. SEE SECTION 706.1.1 FOR PARTY WALLS.
d. OPEN PARKING GARAGES COMPLYING WITH SECTION 406 SHALL NOT BE REQUIRED TO HAVE A FIRE-RESISTANCE RATING.
e. THE FIRE-RESISTANCE RATING OF AN EXTERIOR WALL IS DETERMINED BASED UPON THE FIRE SEPARATION DISTANCE OF THE EXTERIOR WALL AND THE STORY IN WHICH THE WALL IS LOCATED.
f. FOR SPECIAL REQUIREMENTS FOR GROUP H OCCUPANCIES, SEE SECTION 415.5.
g. FOR SPECIAL REQUIREMENTS FOR GROUP S AIRCRAFT HANGARS, SEE SECTION 412.4.1.
h. WHERE TABLE 705.8 PERMITS NONBEARING EXTERIOR WALLS WITH UNLIMITED AREA OF UNPROTECTED OPENINGS, THE REQUIRED FIR-RESISTANCE RATING FOR THE EXTERIOR WALLS IS 0 HOURS

NOTE: ALL INFORMATION PROVIDED THIS PAGE APPLIES ONLY TO THE ARCHITECTURAL PROJECT SCOPE, I.E. AREAS LOCATED WITHIN BUILT STRUCTURES A - F.
THESE TOTALS DO NOT INCLUDE SPORTS FIELDS AND OTHER OUTDOOR ENVIRONMENTS / ACTIVITIES WITHIN THE OVERALL PROJECT. FOR ADDITIONAL INFORMATION, SEE CIVIL.

VII. LIFE SAFETY CONSIDERATIONS (SEE LIFE SAFETY PLANS)

A. ALLOWED OCCUPANT LOADS = (IBC TABLE 1004.1.2).
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM : 300 GROSS
ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED TABLES AND CHAIRS) : 15 NET

	BUILDING		OCCUPANCY (PER STRUCTURE)	QUANTITY	TOTAL OCCUPANCY (PER BUILDING TYPE)
1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	86	1	85
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	94	1	95
3.	**BLDG C -**	**NOT USED**			
4.	**BLDG D -**	**NOT USED**			
5.	**BLDG E -**	**NOT USED**			
6.	**BLDG F -**	**MATERIALS STORAGE SHED:**	2	1	2
		AGGREGATE BUILDING OCCUPANCY =			**182 OCCUPANTS**

B. EXIT DOOR CLEAR OPENING WIDTHS (LSC 7.2.1.2.3, IBC TABLE 1005.1):
*NOTE: ALL DOOR OPENINGS ARE REQUIRED TO PROVIDE A MINIMUM OF 32" CLEAR EGRESS; ALL DOORS ON THIS PROJECT COMPLY WITH THIS REQUIREMENT.

	BUILDING		OCCUPANT LOAD (PER STRUCTURE)	MINIMUM CLEARANCE REQUIRED (OCC. LOAD * 0.2)	ACTUAL CLEARANCE PROVIDED
1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	86	17.2"	310"
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	94	19.0"	206"
3.	**BLDG C -**	**NOT USED**			
4.	**BLDG D -**	**NOT USED**			
5.	**BLDG E -**	**NOT USED**			
6.	**BLDG F -**	**MATERIALS STORAGE SHED:**	2	0.4"	N/A - OPEN STORAGE

C. DEAD END LIMITS = 20 FT MAX. (LSC TABLE A.7.6). NONE PROVIDED.

D. TRAVEL DISTANCE LIMITS: (IBC TABLE 1016.2)

NON-SPRINKLED : 200 FT. MAX DISTANCE

1.	**BLDG A -**	**CONCESSION PAVILION BUILDING:**	33' - 9" MAX. PROVIDED
2.	**BLDG B -**	**RESTROOM PAVILION BUILDING:**	59' - 9" MAX. PROVIDED
3.	**BLDG C -**	**NOT USED**	
4.	**BLDG D -**	**NOT USED**	
5.	**BLDG E -**	**NOT USED**	
6.	**BLDG F -**	**MATERIALS STORAGE SHED:**	18' - 0" MAX. PROVIDED

E. CORRIDORS: MINIMUM WIDTH = 44" (IBC TABLE 1018.2) NONE PROVIDED.

F. FIRE PROTECTION:
- 1-HOUR FIRE RATED SEPARATION PROVIDED IN THE FOLLOWING LOCATIONS:
  - A. BUILDING A - STORAGE ROOM A103
  - B. BUILDING B - STORAGEROOM B105
- FIRE ALARM SYSTEM NOT REQUIRED IN PROJECT BUILDINGS; EACH ENCLOSED BUILDING HAS OCC. OF LESS THAN 300. (LSC 38.3.4.1)
- PORTABLE FIRE EXTINGUISHER IS REQUIRED AND PROVIDED IN ALL BLDGS WITH < 75 FT TRAVEL DIST. AND IN CONCESSION SPACES.

G. NEW FIRE HYDRANTS TO BE PROVIDED WITHIN 200 FT. HOSE-LAY OF ALL BUILDINGS. REFER TO CIVIL DRAWINGS.

VIII. INTERIOR FINISH

LSC TABLE A.10.2.2		REQUIRED	ACTUAL (ALL BLDGS, ALL SPACES)
A.	WALL & CEILING	CLASS B - EXITS CLASS C - ALL OTHER SPACES	PAINTED CMU WALL PLYWOOD CEILINGS
B.	FLOORS	CLASS II MIN. IN EXIT ENCLOSURE NO REQUIREMENT IN OTHER SPACES	SEALED CONCRETE OR EPOXY FLOORING

IX. ROOF COVERINGS

A. CLASS C MIN. FOR CONSTRUCTION TYPE V-B (IBC TABLE 1505.1); ACTUAL = GALV. STEEL METAL ROOF PANEL TO COMPLY WITH 1507.4

X. ACCESSIBILITY

A. EXEMPTION FROM ACCESSIBILITY REQUIREMENTS PER ADA 2010, SECTION 203.10 AND IBC 2018, SECTION 1110.4.6.

a. ELEVATED SCORING AREAS (BUILDING E), TOTAL PROJECT QUANTITY OF TWO (2) STRUCTURES PROVIDED.

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

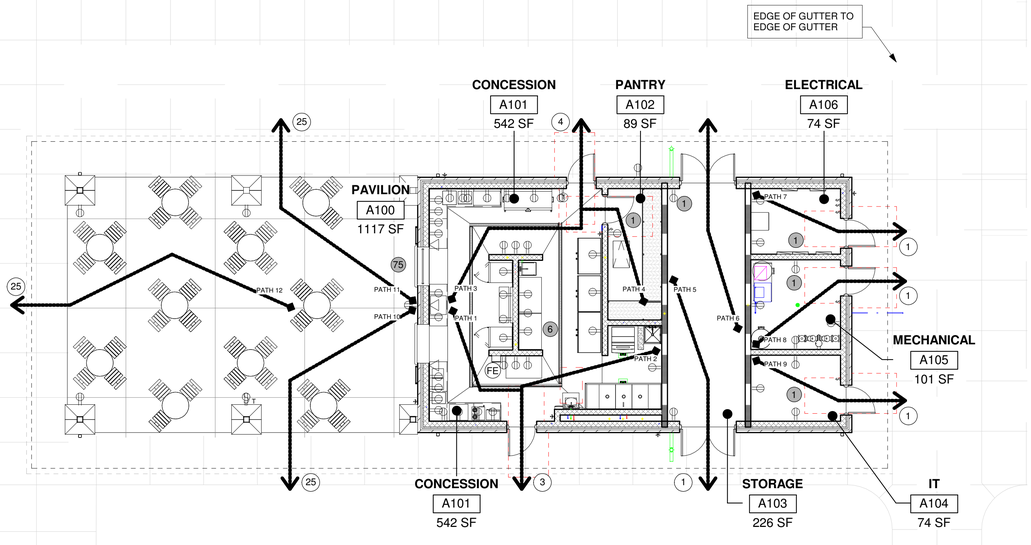
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

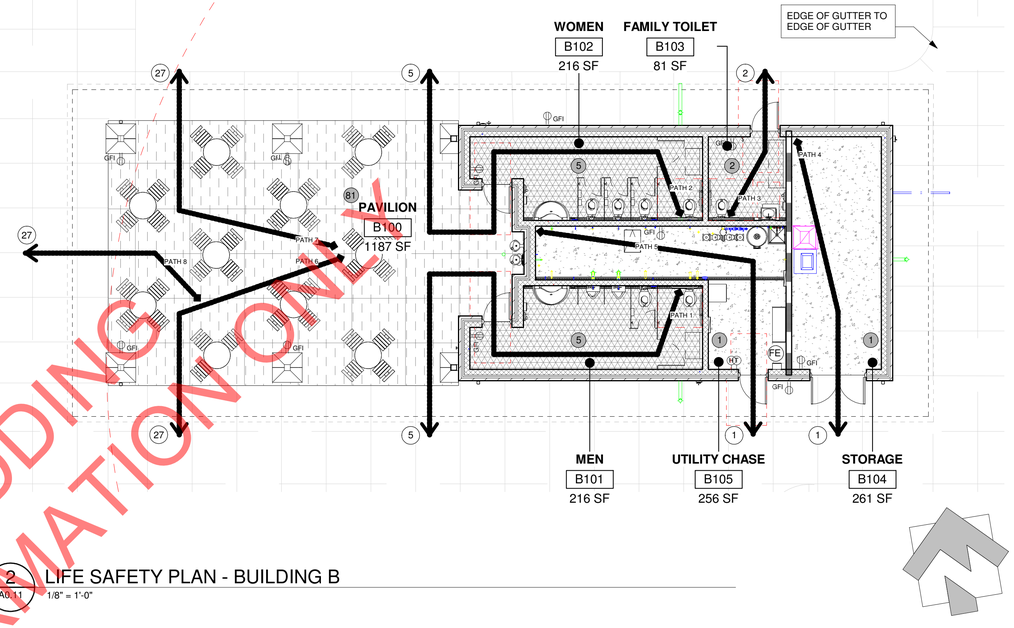
SHEET TITLE
CODE REVIEW

PROJECT NO. **18062-3**	DATE **02/25/2021**
DRAWN BY **AS, DA**	SCALE **As Indicated**
CHECKED BY **SG**	

SHEET NO.
A0.10



1 LIFE SAFETY PLAN - BUILDING A
A0.11 1/8" = 1'-0"



2 LIFE SAFETY PLAN - BUILDING B
A0.11 1/8" = 1'-0"

ROOM OCCUPANCY LOAD - BUILDING A

ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY TYPE	S.F. PER OCCUPANT	OCCUPANCY LOAD
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM					
A102	PANTRY	89 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
A103	STORAGE	226 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
A104	IT	74 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
A105	MECHANICAL	101 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
A106	ELECTRICAL	74 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED TABLES AND CHAIRS)					
A100	PAVILION	1117 SF	ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED TABLES AND CHAIRS)	15	75
BUSINESS AREAS					
A101	CONCESSION	542 SF	BUSINESS AREAS	100	6
Grand total: 7		2222 SF			86

EXIT ACCESS TRAVEL DISTANCE - BUILDING A

TRAVEL PATH	TRAVEL DISTANCE
PATH 1	25' - 0 3/4"
PATH 2	27' - 0"
PATH 3	31' - 4 1/4"
PATH 4	24' - 9"
PATH 5	24' - 0 1/4"
PATH 6	23' - 9 3/4"
PATH 7	17' - 6"
PATH 8	19' - 1"
PATH 9	17' - 8"
PATH 10	27' - 11"
PATH 11	27' - 10 1/4"
PATH 12	33' - 9"

ROOM OCCUPANCY LOAD - BUILDING B

ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY TYPE	S.F. PER OCCUPANT	OCCUPANCY LOAD
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM					
B104	STORAGE	261 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
B105	UTILITY CHASE	256 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED TABLES AND CHAIRS)					
B100	PAVILION	1187 SF	ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED TABLES AND CHAIRS)	15	80
LOCKER ROOMS					
B101	MEN	216 SF	LOCKER ROOMS	50	5
B102	WOMEN	216 SF	LOCKER ROOMS	50	5
B103	FAMILY TOILET	81 SF	LOCKER ROOMS	50	2
Grand total: 6		2217 SF			94

EXIT ACCESS TRAVEL DISTANCE - BUILDING B

TRAVEL PATH	TRAVEL DISTANCE
PATH 1	59' - 9"
PATH 2	59' - 9"
PATH 3	16' - 10"
PATH 4	33' - 1 3/4"
PATH 5	43' - 3 3/4"
PATH 6	32' - 6 3/4"
PATH 7	33' - 2 3/4"
PATH 8	21' - 4 3/4"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
No. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

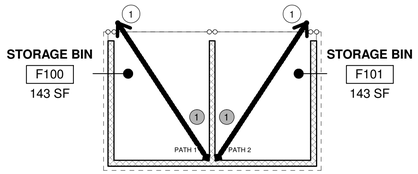
SUBMITTALS / REVISIONS

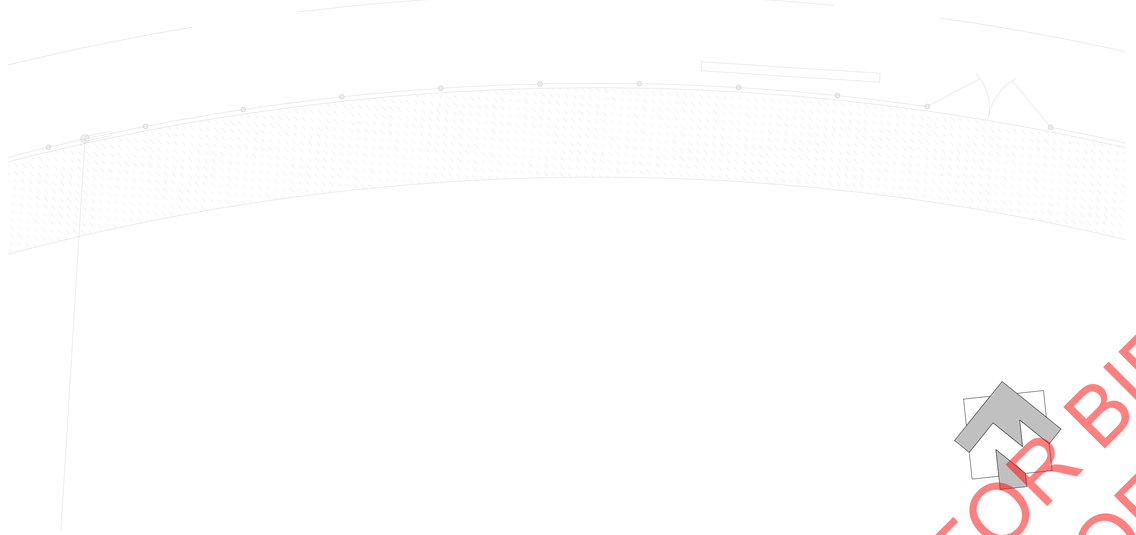
NO	DATE	DESCRIPTION

SHEET TITLE
LIFE SAFETY PLANS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/8" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A0.11





1 A0.12 LIFE SAFETY PLAN - BUILDING F

1/8" = 1'-0"

ROOM OCCUPANCY LOAD - BUILDING F

ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY TYPE	S.F. PER OCCUPANT	OCCUPANCY LOAD
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM					
F100	STORAGE BIN	143 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
F101	STORAGE BIN	143 SF	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	1
Grand total: 2		286 SF			2

EXIT ACCESS TRAVEL DISTANCE - BUILDING F

TRAVEL PATH	TRAVEL DISTANCE
PATH 1	18' - 0"
PATH 2	18' - 0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
STATE OF TENNESSEE
AGRICULTURE
VIRGINIA
02.25.21
NO. 105240

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
LIFE SAFETY PLANS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/8" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A0.12

BUILDING A

COMcheck Software Version 4.1.1.0

Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	
Location:	Franklin, Tennessee
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	3%

Construction Site:
507 NEW HWY 96 W
FRANKLIN, TN 37064

Owner/Agent:
FRANKLIN SPECIAL SCHOOL DISTRICT
507 NEW HIGHWAY 96 WEST
FRANKLIN, TN 37064
(615) 794-6624

Designer/Contractor:
LOSE DESIGN
2809 FOSTER AVENUE
NASHVILLE, TN 37210
615-242-0040

Additional Efficiency Package(s)

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

Building Area	Floor Area
1-RESTROOM PAVILION (Office) : Nonresidential	1297

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - RESTROOM PAVILION]	3499	38.0	0.0	0.027	0.027
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 2 ft., [Bldg. Use 1 - RESTROOM PAVILION] (d)	159	---	10.0	0.700	0.540
Exterior Wall 1: Concrete Block:8", Partially Grouted, Cells Empty, Medium Density, Furring: None, [Bldg. Use 1 - RESTROOM PAVILION]	1908	---	10.0	0.080	0.104
Window 1: Other Window:Fixed, Perf. Specs.: Product ID NA, SHGC 0.27, [Bldg. Use 1 - RESTROOM PAVILION] (c)	57	---	---	0.340	0.380
Doors: Insulated Metal, Swinging, [Bldg. Use 1 - RESTROOM PAVILION]	144	---	---	0.610	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 4% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SEAN GUTH ASSOC. VP ARCH — Name - Title
Signature
10.21.19 — Date

BUILDING B

COMcheck Software Version 4.1.1.0

Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	
Location:	Franklin, Tennessee
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	5%

Construction Site:
507 NEW HWY 96 W
FRANKLIN, TN 37064

Owner/Agent:
FRANKLIN SPECIAL SCHOOL DISTRICT
507 NEW HIGHWAY 96 WEST
FRANKLIN, TN 37064
(615) 794-6624

Designer/Contractor:
LOSE DESIGN
2809 FOSTER AVENUE
NASHVILLE, TN 37210
615-242-0040

Additional Efficiency Package(s)

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

Building Area	Floor Area
1-CONCESSION PAVILION (Office) : Nonresidential	1388

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - CONCESSION PAVILION]	3499	38.0	0.0	0.027	0.027
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 2 ft., [Bldg. Use 1 - CONCESSION PAVILION] (d)	144	---	10.0	0.700	0.540
Exterior Wall 1: Concrete Block:8", Partially Grouted, Cells Empty, Medium Density, Furring: None, [Bldg. Use 1 - CONCESSION PAVILION]	1848	---	10.0	0.080	0.104
Window 1: Other Window:Fixed, Perf. Specs.: Product ID NA, SHGC 0.27, [Bldg. Use 1 - CONCESSION PAVILION] (c)	57	---	---	0.340	0.380
Window 2: Metal Frame with Thermal Break:Operable, Perf. Specs.: Product ID NA, SHGC 0.36, [Bldg. Use 1 - CONCESSION PAVILION] (c)	30	---	---	0.300	0.450
Doors: Insulated Metal, Swinging, [Bldg. Use 1 - CONCESSION PAVILION]	215	---	---	0.610	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 4% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SEAN GUTH ASSOC. VP ARCH — Name - Title
Signature
10.21.19 — Date

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
NO. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ENERGY COMPLIANCE REPORTS

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE
CHECKED BY SG	

SHEET NO.
A0.30

Design No. U305
BXUV.U305
Fire-resistance Ratings - ANSI/UL 263

Page Bottom

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. U305

August 21, 2018

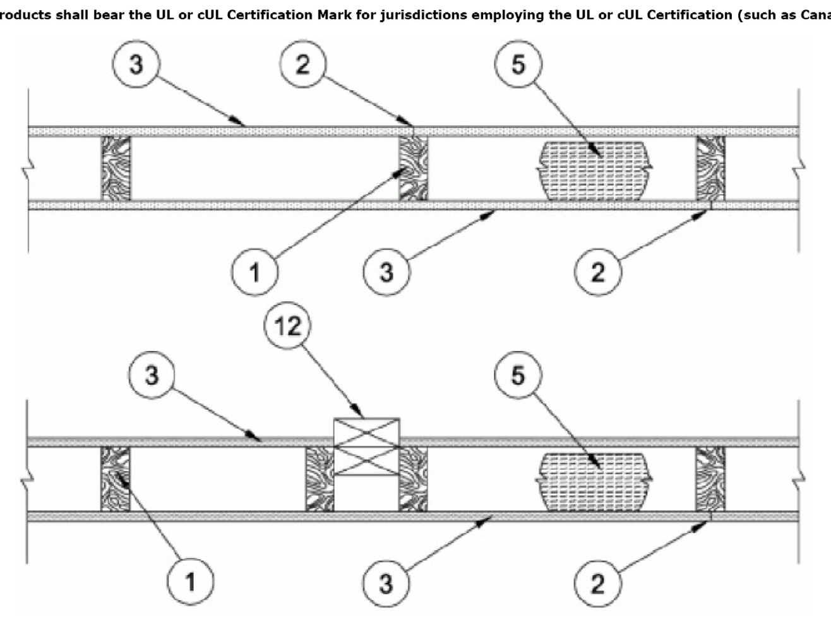
Bearing Wall Rating — 1 Hr

Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

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. **Wood Studs —** Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. **Joints and Nail-Heads —** Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. **Gypsum Board* —** 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6E, **Steel Framing Members***.

When Items 6, 6B, 6C, 6D, or 6E, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C. Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X-2, Type X or Type X-1 (finish rating 26 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. **Gypsum Board* —** (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. **Gypsum Board* —** (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. **Gypsum Board* —** (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. **Gypsum Board* —** (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

3I. **Gypsum Board* —** (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. **Gypsum Board* —** (As an alternate to Item 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured per item 3 or 3A.

CERTAINTEED GYPSUM INC — Type SilentFX

3K. **Gypsum Board* —** (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. **Gypsum Board*** — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".

MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. **Gypsum Board* —** (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.

CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. **Gypsum Board* —** (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.

NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. **Gypsum Board* —** 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4. **Steel Corner Fasteners** — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. **Batts and Blankets* —** (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

OWENS CORNING HT INC, DIV OF OWENS CORNING — Corning Fiberglas Corp

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — Acoustical Fire Batts

THERMAFIBER INC — Type SAFB, SAFB FF

5A. **Fiber, Sprayed* —** (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS765LD or INS770LD.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only

5B. **Fiber, Sprayed*** — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets*** — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

THERMAFIBER INC — Type SAFB, SAFB FF

5D. **Glass Fiber Insulation —** (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. **Fiber, Sprayed* —** (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. **Fiber, Sprayed* —** (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. **Foamed Plastic* —** (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

SES FOAM INC — SES 2 lb. Spray Foam and Sucraseal 0.5 lb. Spray Foam.

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

6B. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

7. **Furring Channel —** Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. **Caulking and Sealants —** (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. **STC Rating** — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2, above — Nailheads Shall be covered with joint compound.

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.

C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.

E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

10. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. **Cementitious Backer Units* —** (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.

NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Non-Bearing Wall Partition Intersection —** (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. **Mesh Netting —** (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

14A. **Mineral and Fiber Board*** — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO — Homasote Type 440-32

14B. **Glass Fiber Insulation —** (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. **Batts and Blankets* —** (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.

THERMAFIBER INC — Type SAFB, SAFB FF

14D. **Adhesive —** (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. **Gypsum Board* —** (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC, Type C, Type X-2

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

*** 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 2018-08-21

Questions? Print this page Terms of Use Page Top

Design No. U906
BXUV.U906
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.

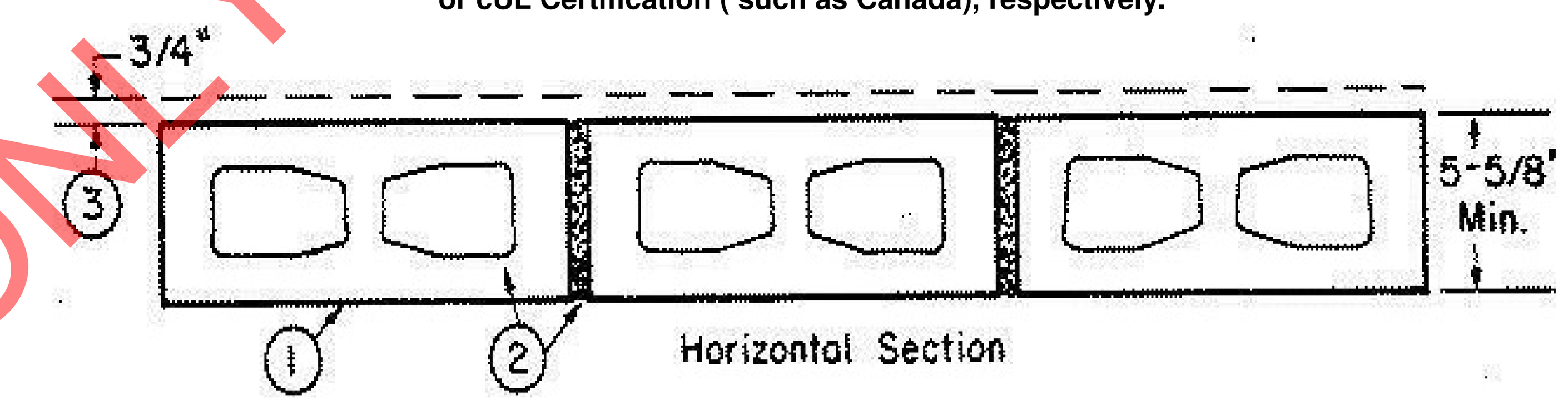
BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U906
September 11, 2015

Bearing Wall Rating - 2 HR.
Non Bearing Wall Rating - 2 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. Concrete Blocks* — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr). See Concrete Blocks category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC
GAGNE & SON CONCRETE BLOCK INC
GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS
WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation" and "EnergyShield Pro 2 Wall Insulation"

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ Sheath

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

4A. Building Units — As an alternate to Item 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

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

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE COMMERCE
NO. 105240
STATE OF TENNESSEE
02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
UL ASSEMBLIES

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/4" = 1'-0"
CHECKED BY SG	
SHEET NO. A0.40	

Design No. P522
BXUV.P522
Fire-resistance Ratings - ANSI/UL 263

Page Bottom

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. P522

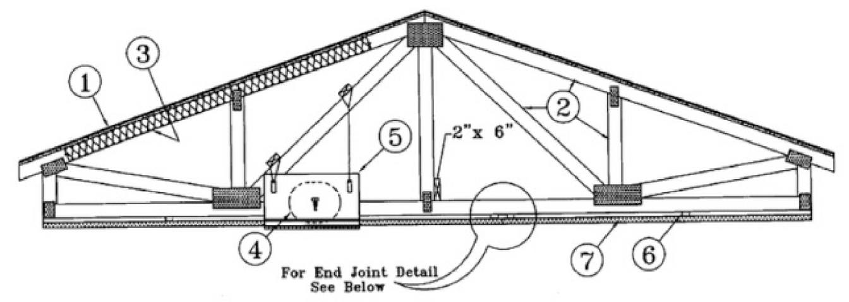
April 05, 2018

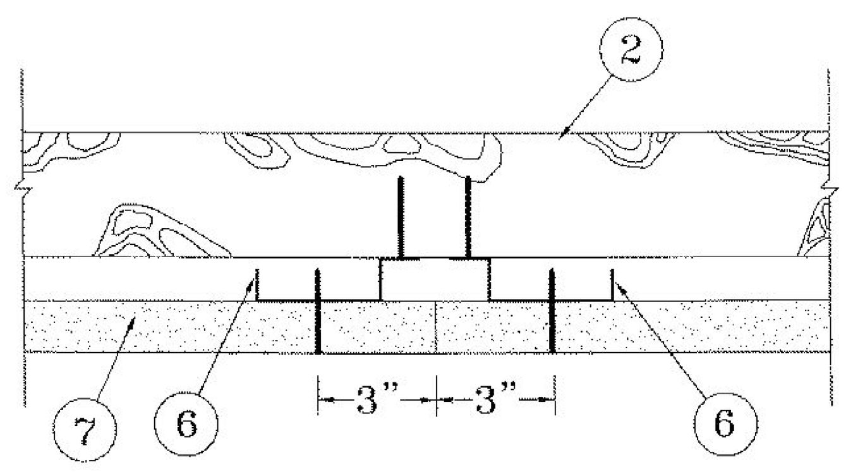
Unrestrained Assembly Rating — 1 Hr

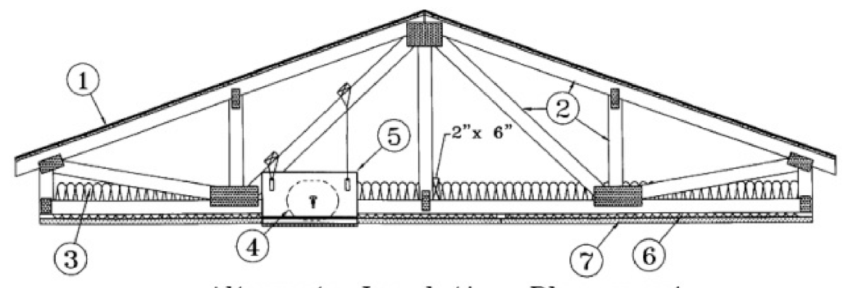
Finish Rating — 25 Min (See Items 3 or 3A)

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.**







Alternate Insulation Placement

1. **Roofing System*** — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. **Trusses —** Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. **Batts and Blankets*** — (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When **Steel Framing Members** (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. **Fiber, Sprayed*** — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft^3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft^3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft^3 behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

3B. **Foamed Plastic* —** (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 density. When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

SES FOAM INC — Sucraseal 0.5 lb

3C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* —** (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.
3D. **Foamed Plastic*** — (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 or 2.0 lb/ft^3 density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

4. **Air Duct*** — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. **Ceiling Damper* —** Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5A. **Alternate Ceiling Damper* —** Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

5B. **Alternate Ceiling Damper*** — Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5D. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Model SIG-CRD

5E. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Model SMT-CRD

5F. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

5G. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Model RDFUWT

5H. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Models RDJ1 and RDH

5I. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Model RDMWT

6. **Furring Channels —** Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B or 3D) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 and 6A.

a. **Furring Channels —** Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. **Steel Framing Members* —** Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.

KINETICS NOISE CONTROL INC — Type ICW.

6C. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A and 6B.

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 24 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (24 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PLITEQ INC — Type Genie Clip

6D. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.

a. **Main runners —** Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. **Cross tees or channels —** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall angles or channels —** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below.

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

USG INTERIORS LLC — Type DGL or RX

6G. **Resilient Channels —** For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.

7. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B or 3D) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.

When **Steel Framing Members*** (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

When **Steel Framing Members** (Item 6E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. from end joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

When alternate **Steel Framing Members*** (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. **Gypsum Board*** — For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 6D) when **Batts and Blankets*** (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints.

Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2

7B. **Gypsum Board*** — For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.

UNITED STATES GYPSUM CO — Type ULIX

8. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. **Alternate Ceiling Membrane** — Not Shown.

9. **Netting —** Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

*** 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 2018-04-05

Questions? Print this page Terms of Use Page Top

System No. C-AJ-2100
XHEZ.C-AJ-2100
Through-penetration Firestop Systems

Page Bottom

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.

XHEZ - Through-penetration Firestop Systems

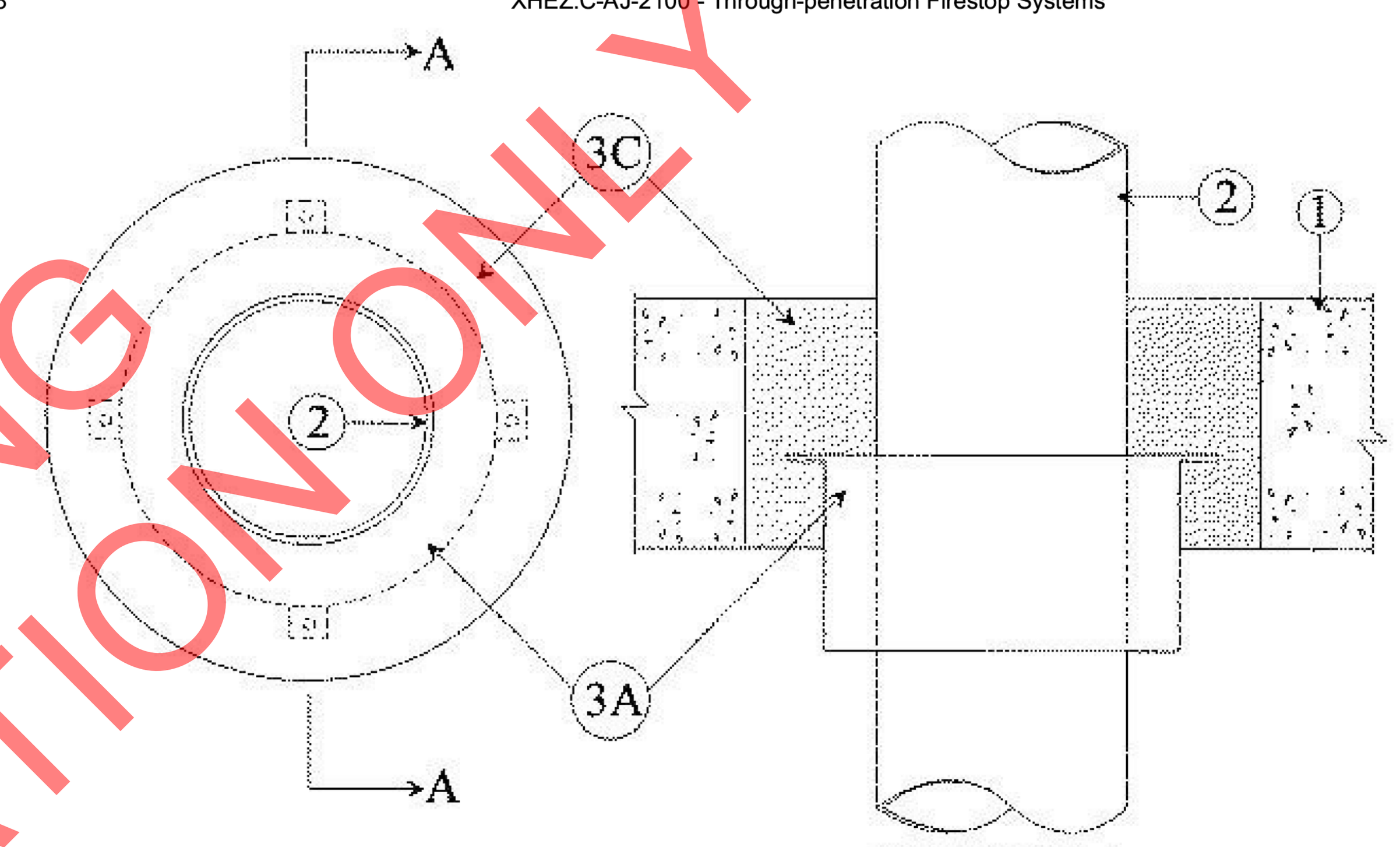
See General Information for Through-penetration Firestop Systems

System No. C-AJ-2100

January 11, 2010

F Rating — 2 Hr

T Rating — 1 Hr



SECTION A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max diam of opening is 15 in.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Nonmetallic Pipe —** Nom 4 in. diam (or smaller) Schedule 40 solid core polyvinyl chloride (PVC) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be centered within the firestop system. A nom annular space of 5-1/4 in. is required within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly.

3. **Firestop System —** The firestop system shall consist of the following:

A. **Firestop Device* —** Firestop device shall be installed in accordance with accompanying installation instructions. Galv steel collar lined with an intumescent material sized to fit specific diam of the nonmetallic pipe. Device to be wrapped around outer circumference of pipe and secured together by means of a side mounting flange in conjunction with steel nuts and bolts. In floors, device is slid into the annulus until the body of the device extends 2 in. below the bottom surface of floor. In walls, device is installed on each side of wall. Device is slid into annulus until the body of the device extends 2 in. beyond each surface of wall.

RECTORSEAL — FSD Device

B. **Forms —** (Not Shown) — Used as a form to prevent leakage of fill material installation. Forms to be rigid sheet material, cut to fit the contour of the penetrating item and fastened to the underside of floor or both sides of wall. Forms to be removed after fill material has cured.

C. **Fill, Void or Cavity Materials* — Mortar —** Min 4-1/2 in. thickness of fill material applied flush with top surface of floor and both surfaces of wall. Mortar to be mixed at a rate of 1.1 parts dry mixture to 1.0 part water by weight in accordance with the installation instructions supplied with the product.

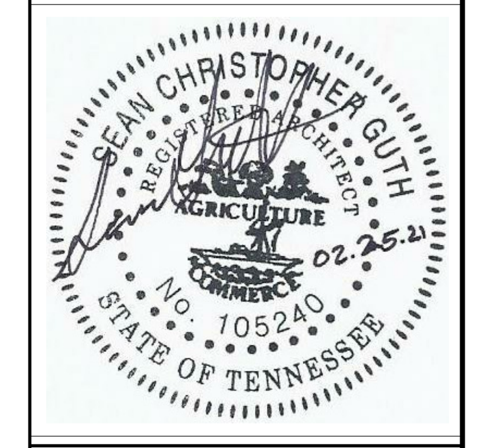
RECTORSEAL — Flame Safe Mortar

*** 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 2010-01-11

Questions? Print this page Terms of Use Page Top

LOSE DESIGN
SPACES FOR LIFE.



FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

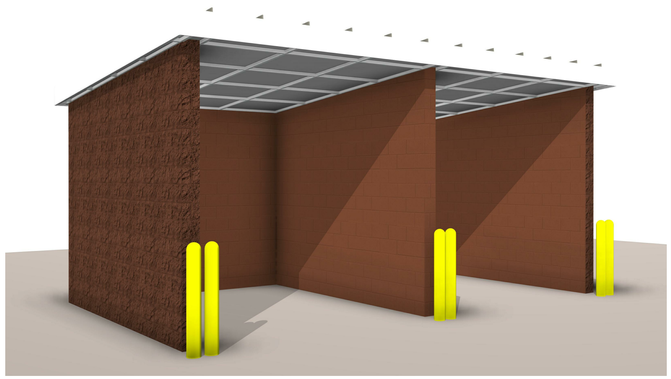
NO	DATE	DESCRIPTION

SHEET TITLE
UL ASSEMBLIES

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/4" = 1'-0"
CHECKED BY SG	
SHEET NO. A0.41	

BUILDING A -
EXTERIOR PERSPECTIVE

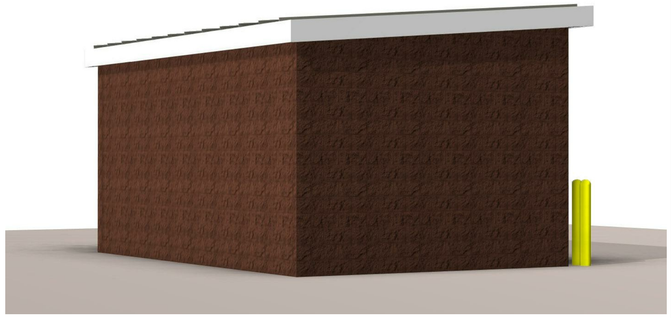
BUILDING B -
EXTERIOR PERSPECTIVE



BUILDING F -
EXTERIOR PERSPECTIVE

BUILDING A -
EXTERIOR PERSPECTIVE

BUILDING B -
EXTERIOR PERSPECTIVE



BUILDING F -
EXTERIOR PERSPECTIVE

BUILDING A -
PAVILION PERSPECTIVE

BUILDING B -
PAVILION PERSPECTIVE

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED
ARCHITECT
AGRICULTURE
No. 105240
STATE OF TENNESSEE
02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

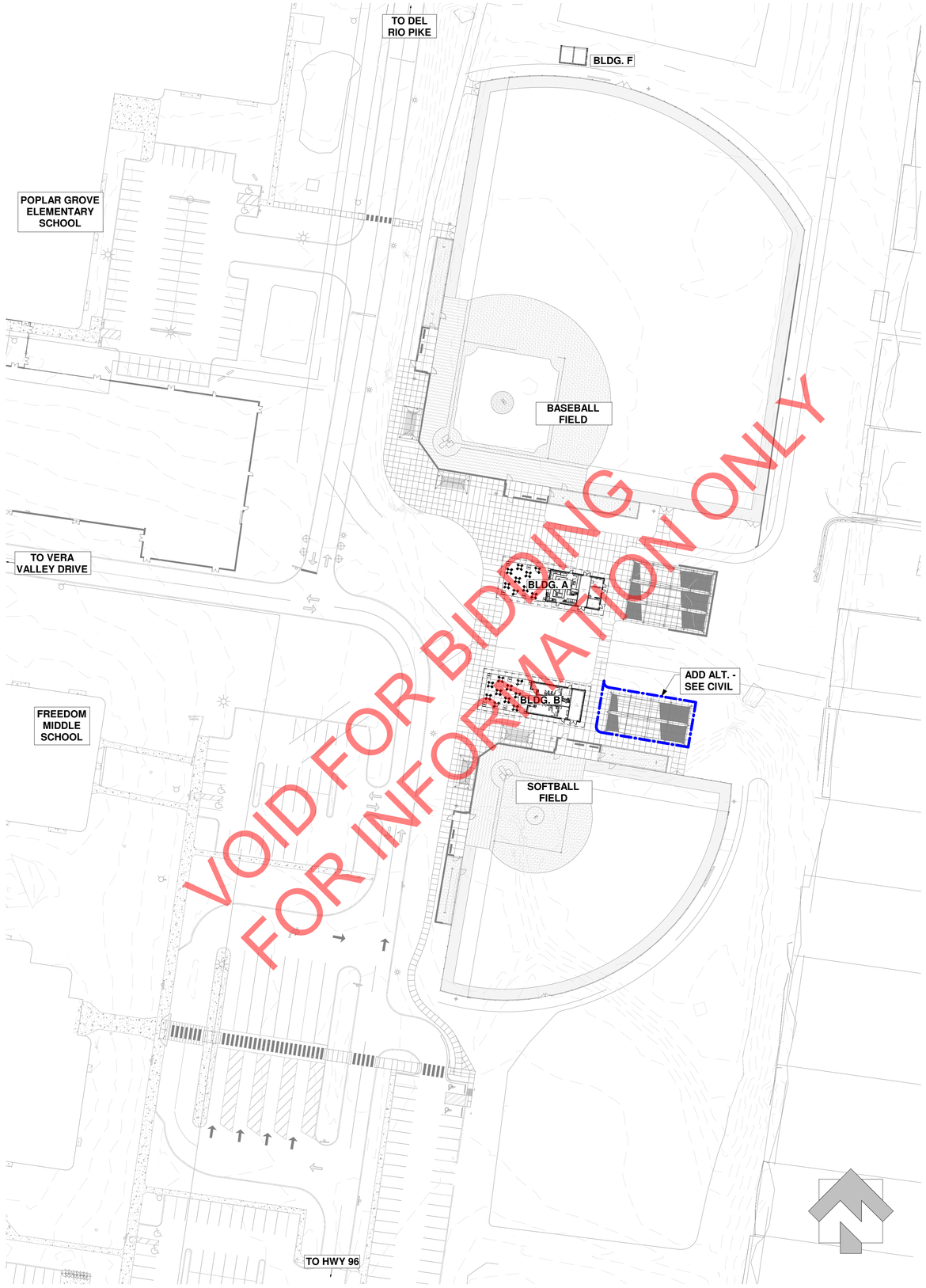
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
PERSPECTIVES

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE
CHECKED BY SG	

SHEET NO.
A0.50



1 AC2.00 OVERALL SITE PLAN
1" = 50'-0"

BUILDING LETTER	DESCRIPTION	QTY.
BUILDING A	CONCESSIONS, SEATING PAVILION, & STORAGE	1
BUILDING B	RESTROOMS, SEATING PAVILION, & STORAGE	1
BUILDING C	NOT USED	
BUILDING D	NOT USED	
BUILDING E	NOT USED	
BUILDING F	OPEN AIR MATERIALS STORAGE SHED	1

NOTE:
THIS PLAN INTENDED TO SHOW GENERAL BUILDING LOCATIONS ONLY. REFER TO SITE / CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ARCHITECTURAL SITE PLAN

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1" = 50'-0"
CHECKED BY: SG	

SHEET NO.
AC2.00

WALL TYPES - BUILDING A

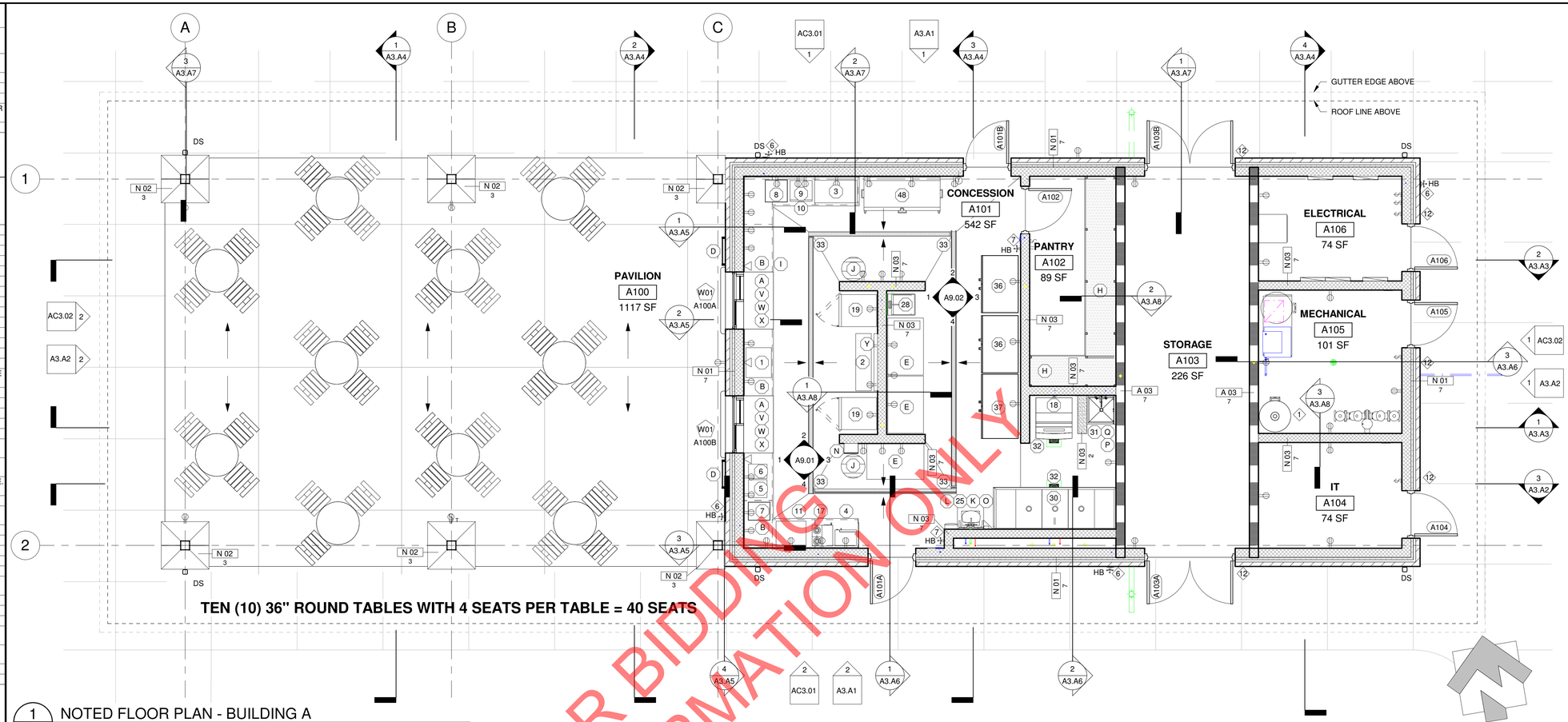
FIRE RATING	WALL TYPE	WALL DESCRIPTION
N	01	8" CMU + RIGID INSULATION + AIR SPACE+ BRICK VENEER
N	02	8" CMU + AIR SPACE+ BRICK VENEER
A	03	8" CMU, SEALED & PAINTED AS SCHEDULED
N	03	8" CMU, SEALED & PAINTED AS SCHEDULED
N	04	1/2" SHAETHING + 2x4 WOOD STUDS + 5/16" FIBER CEMENT LAP SIDING
N	05	ROOF TRUSS + 1/2" SHEATHING +TPO

NOTE: REFER TO SHEET A0.03 & SPECS FOR ADDITIONAL INFORMATION.

FOOD SERVICE EQUIPMENT SCHEDULE - BUILDING A

1	CONDIMENT STAND WITH BINS
2	CANDY & CHIP DISPLAY
3	FOOD DISPLAY WARMER
4	COUNTERTOP MICROWAVE
5	NACHO CHIP WARMER
6	NACHO CHEESE WARMER / DISPENSER
7	PRETZEL MACHINE
8	PIZZA WARMER - COUNTER
9	HOT DOG ROLLER AND STEAMER DRAWER
10	HOT DOG BUN STORAGE DRAWER
11	POPCORN MACHINE
17	COFFEE MACHINE - COUNTER, 3-POT CAPACITY
18	ICE MAKER & BIN - STANDING UNIT
19	REFRIGERATED BEVERAGE MERCHANDISER
25	ADA HEIGHT WALL MOUNTED HAND SINK W/ ADA DRAIN PIPE SHIELD
28	STAINLESS STEEL ONE COMPARTMENT SINK
30	STAINLESS STEEL THREE COMPARTMENT SINK
31	UTILITY / MOP SINK
32	FLOOR SINK
33	FLOOR TRENCH DRAIN
36	ENERGY STAR SIDE BY SIDE UPRIGHT REFRIGERATOR, COMMERCIAL GRADE
37	ENERGY STAR SIDE BY SIDE UPRIGHT FREEZER, COMMERCIAL GRADE
48	PORTABLE GAS GRILL; STORED INDOORS WHEN NOT IN USE. FOR OUTDOOR COOKING USE ONLY.
A	STAINLESS STEEL TRANSACTION COUNTER
D	EXTERIOR WALL MOUNTED MENU BOARD WITH LOCKABLE GLASS PANELS
E	STAINLESS STEEL WORK TABLE WITH LOWER SHELF
I	
J	STANDING TRASH CAN
K	WALL MOUNTED SOAP DISPENSER
L	WALL MOUNTED PAPER TOWEL DISPENSER
N	ADA FIRE EXTINGUISHER WITH CABINET - SURFACE MOUNTED
O	STAINLESS STEEL SINK GUARD
P	WALL GUARD AT UTILITY / MOP SINK
Q	MOP RACK
V	ROLL-DOWN COUNTER SHUTTER - SOLID SLAT, INSULATED, FULL WINDOW WIDTH
W	LOCKABLE DOUBLE SLIDING SERVICE WINDOW WITH INSULATED GLASS, SELF-CLOSING
X	OVERHEAD FLY FAN
Y	INTERIOR WALL MOUNTED MENU BOARD

NOTE: REFER TO SHEET A0.02 & SPECS FOR ADDITIONAL INFORMATION.



1 A2.A1 NOTED FLOOR PLAN - BUILDING A
1/4" = 1'-0"

PLAN NOTES

1. BUILDING FFE LISTED AS 0' - 0", COORDINATE ACTUAL ELEVATION WITH CIVIL.
2. ALL EXPOSED STEEL TO HAVE POWDER COATED FINISH, U.N.O. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTIONS, TYP.
3. 8" x 8" GLASS BLOCK WITH SILL AT 8' - 8" AFF, TYP. SEE ELEVATIONS FOR LOCATIONS AND DIMENSIONS.
4. PROVIDE EVENLY SPACED CONSTRUCTION / CONTROL JOINTS IN ALL BUILDING CONCRETE SLABS. SPACE JOINTS (IN FEET) NO MORE THAN 2 TIMES THE SLAB THICKNESS (IN INCHES). EX.: A 4" SLAB WILL HAVE JOINTS NO MORE THAN 8' - 0" APART. JOINTS ARE TO BE 25% OF THE DEPTH OF THE SLAB. SEE STRUCTURAL.
5. COORDINATE PLACEMENT OF EXTERIOR SLAB JOINTS WITH EXTERIOR CONCRETE JOINTS; SEE SITE / CIVIL.
6. PROVIDE EVENLY SPACED CONTROL / EXPANSION JOINTS IN ALL CMU WALLS AT ALL CORNERS, AND WITHIN WALL SECTIONS NO FARTHER APART THAN TWICE THE HEIGHT OF THE WALL, OR 40' - 0" MAXIMUM, WHICHEVER IS LESS.
7. PROVIDE EVENLY SPACED CONTROL / EXPANSION JOINTS IN ALL GYPSUM WALLS AT MAXIMUM 24' - 0" HORIZONTALLY & VERTICALLY, TYP.
8. ALL IT ROOM WALLS TO RECEIVE 3/4" FRT PLYWOOD FINISH UP TO 8' - 0" AFF, PAINTED WITH PNT-_. WALLS ABOVE PLYWOOD TO BE CMU AS INDICATED. ALL EXPOSED FACES OF CMU TO BE PAINTED WITH PNT-_, U.N.O.
9. ALL LOCATIONS RECEIVING EPOXY FLOOR SYSTEMS ARE TO HAVE EPOXY SYSTEM CONTINUED 4' - 0" UP THE VERTICAL FACE OF ALL WALLS IN ROOM.
   A. DIRECTLY ABOVE EPOXY, CMU TO BE PAINTED WITH 8" HIGH BAND OF ACCENT PAINT DIRECTLY ABOVE EPOXY, PAINT COLOR PNT-_.
   B. WALL ABOVE ACCENT BAND TO BE PAINTED PNT-_, TYP.
10. ALL EXPOSED INTERIOR CMU TO BE SMOOTH FACED, SEALED & PAINTED AS SCHEDULED. COURSING SHALL BE PLACED IN EVEN 8" INCREMENTS FOR EVEN SCORE PATTERNS, U.N.O.
11. ALL ELECTRICAL AND PLUMBING DEVICES ON EXTERIOR WALLS TO BE "CENTERED" WITHIN INDIVIDUAL CMU BLOCK VERTICALLY AND HORIZONTALLY (W.P. OUTLETS, HOSE BIB, ETC.) AND SHALL HAVE SMOOTH FACE AT ALL FIXTURE MOUNTING LOCATIONS.
12. ALL EXTERIOR PLUMBING DEVICES TO BE FREEZEPROOF, TYP.
13. ALL FIRE EXTINGUISHERS ARE TO BE PLACED IN A WALL MOUNTED CABINET FOLLOWING ALL FIRE, SAFETY, & ACCESSIBILITY CODE REQUIREMENTS. FIRE EXTINGUISHER CABINETS ARE TO BE EITHER SURFACE MOUNTED OR SEMI-RECESSED AS INDICATED.
14. ALL CUPOLA LOUVERS TO BE FULLY TRIMMED IN 1x4 BATTEN TRIM, COLOR TO MATCH MOUNTED SURFACE, TYP.
15. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, & FLOORS.
16. ALL RESTROOMS, UTILITY CHASES, WORK SPACES, AND FOOD SERVICE PREP AREAS TO HAVE FLOOR DRAINS AND/OR TRENCH DRAINS AS INDICATED. PROVIDE FLOOR SINK AT ALL 3 COMPARTMENT SINKS AND ALL ICE MAKER BIN LOCATIONS, TYP. SEE PLUMBING.
17. ALL FLOORS TO SLOPE AT 1/8" PER FOOT AS INDICATED BY SLOPE ARROWS, TYP.
18. CAULK ALL DOOR & WINDOW FRAMES AT THE JOINT BETWEEN THE FRAME & THE ADJACENT SUBSTRATE.
19. CAULK ALL JOINTS BETWEEN FIXED CASEWORK, PLUMBING FIXTURES, & BACKSPLASH TO WALL TRANSITION JOINT.
20. RUN ALL DOWNSPOUTS TO UNDERGROUND CONNECTIONS. COORDINATE WITH CIVIL.
21. ALL EXPOSED LUMBER TO BE STAINED & SEALED, COLOR TBD. SEE SPECS.
22. ALL TABLES & CHAIRS AT PAVILION LOCATIONS TO BE ANCHORED INTO SLAB, TYP. SEE SPECS.

DOOR SCHEDULE - BUILDING A

DOOR NUMBER	ROOM NAME	TYPE	PANEL SIZE WIDTH	PANEL SIZE HEIGHT	PANEL SIZE THICKNESS	PANEL MAT.	PANEL FIN.	FRAME TYPE	FRAME MAT.	FRAME FIN.	HARDWARE SET	DOOR NOTES
FLOOR PLAN												
A101A	CONCESSION	DA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 1	1,2
A101B	CONCESSION	DA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 1	1,2
A102	PANTRY	DA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 2	1,2
A103A	STORAGE	DB	6' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FB	H.M.	PNT-3	SET 4	1,2
A103B	STORAGE	DB	6' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FB	H.M.	PNT-3	SET 4	1,2
A104	IT	DA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 1	1,2
A105	MECHANICAL	DA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 1	1,2
A106	ELECTRICAL	DA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 1	1,2
A200	MECHANICAL GATES	N/A	4' - 0"	6' - 0"	N/A	N/A	N/A	N/A	N/A	N/A	SET 5	1, 3

NOTE: REFER TO SHEETS A8.00 - A8.01 & SPECS FOR ADDITIONAL INFORMATION.

WINDOW SCHEDULE - BUILDING A

ROOM NUMBER	ROOM NAME	WINDOW TYPE	WINDOW NUMBER	WIDTH	HEIGHT	HEAD HEIGHT	SILL HEIGHT	COMMENTS
A101	CONCESSION	W01	A100A	4' - 0"	5' - 0"	7' - 10"	2' - 10"	HORIZONTAL SLIDING CONCESSION WINDOW WITH ROLL DOWN COILING SHUTTER ABOVE; LOCKABLE.
A101	CONCESSION	W01	A100B	4' - 0"	5' - 0"	7' - 10"	2' - 10"	HORIZONTAL SLIDING CONCESSION WINDOW WITH ROLL DOWN COILING SHUTTER ABOVE; LOCKABLE.

NOTE: REFER TO SHEET A3.20 & SPECS FOR ADDITIONAL INFORMATION.

LOUVER SCHEDULE - BUILDING A

LOUVER NUMBER	LOUVER LOCATION	LOUVER TYPE	LOUVER WIDTH	LOUVER HEIGHT	COMMENTS
A1	CUPOLA	L01	5' - 0"	2' - 0"	24" x 60" LOUVER
A2	CUPOLA	L01	5' - 0"	2' - 0"	24" x 60" LOUVER
A3	CUPOLA	L01	5' - 0"	2' - 0"	24" x 60" LOUVER
A4	CUPOLA	L01	5' - 0"	2' - 0"	24" x 60" LOUVER

NOTE: REFER TO SHEET A7.03 & SPECS FOR ADDITIONAL INFORMATION.

ROOM FINISH SCHEDULE - BUILDING A

ROOM NUMBER	ROOM NAME	FLOOR	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	BASE	CEILING	NOTES
FLOOR PLAN									
A100	PAVILION	SC-1	N/A	N/A	N/A	N/A	N/A	FCB-2	
A101	CONCESSION	EP-1	EP-1/PNT-2/PNT-1	EP-1/PNT-2/PNT-1	EP-1/PNT-2/PNT-1	EP-1/PNT-2/PNT-1	EB-1	PLY-2	
A102	PANTRY	EP-1	EP-1/PNT-2/PNT-1	EP-1/PNT-2/PNT-1	EP-1/PNT-2/PNT-1	EP-1/PNT-2/PNT-1	EB-1	PLY-2	
A103	STORAGE	SC-2	PNT-1	PNT-1	PNT-1	PNT-1	N/A	GYP-2	
A104	IT	SDT-1	PLY-1/PNT-1	PLY-1/PNT-1	PLY-1/PNT-1	PLY-1/PNT-1	N/A	PLY-2	
A105	MECHANICAL	SC-2	PNT-1	PNT-1	PNT-1	PNT-1	N/A	PLY-2	
A106	ELECTRICAL	SC-2	PLY-1/PNT-1	PNT-1	PNT-1	PNT-1	N/A	PLY-2	

NOTE: REFER TO SHEET A0.03, A2.A2, & SPECS FOR ADDITIONAL INFORMATION.

SIGNAGE SCHEDULE - BUILDING A

ROOM NUMBER	ROOM NAME	TYPE MARK	DIMENSIONS	COMMENTS
A101	CONCESSION	12	7 1/2" x 7 1/2"	
A102	PANTRY	12	7 1/2" x 7 1/2"	
A103	STORAGE	12	7 1/2" x 7 1/2"	
A104	IT	12	7 1/2" x 7 1/2"	
A105	MECHANICAL	12	7 1/2" x 7 1/2"	
A106	ELECTRICAL	12	7 1/2" x 7 1/2"	

NOTE: REFER TO SHEET A0.02 & SPECS FOR ADDITIONAL INFORMATION.

CASEWORK SCHEDULE - BUILDING A

ROOM NUMBER	ROOM NAME	FINISH	WIDTH	HEIGHT	DEPTH	DETAIL REFERENCE	CASEWORK TYPE / COMMENTS
A101	CONCESSION	FP-1	3' - 0"	2' - 8 1/2"	2' - 0"	4 / A9.00	3'-0" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	4' - 8"	2' - 8 1/2"	2' - 0"	4 / A9.00	4'-8" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	3' - 4"	2' - 8 1/2"	2' - 0"	4 / A9.00	5'-4" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	3' - 4"	2' - 8 1/2"	2' - 0"	4 / A9.00	5'-4" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	3' - 0"	2' - 8 1/2"	2' - 0"	4 / A9.00	3'-0" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	3' - 0"	2' - 8 1/2"	2' - 0"	4 / A9.00	3'-0" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	3' - 0"	2' - 8 1/2"	2' - 0"	4 / A9.00	3'-0" OPEN SHELF BASE CABINET
A101	CONCESSION	FP-1	3' - 4"	2' - 8 1/2"	2' - 0"	5 / A9.00	3'-4" OPEN SHELF BASE CABINET WITH LOCKABLE DRAWERS
A101	CONCESSION	FP-1	3' - 4"	2' - 8 1/2"	2' - 0"	5 / A9.00	3'-4" OPEN SHELF BASE CABINET WITH LOCKABLE DRAWERS
A101	CONCESSION	PL-1	4' - 8"	2' - 10"	2' - 1"	12B / A9.00	4'-8" PLASTIC LAMINATE COUNTER TOP
A101	CONCESSION	PL-1		2' - 10"	2' - 1"	12B / A9.00	L-SHAPED PLASTIC LAMINATE COUNTERTOP
A101	CONCESSION	PL-1		2' - 10"	2' - 1"	12B / A9.00	L-SHAPED PLASTIC LAMINATE COUNTERTOP
A102	PANTRY	FP-1				3 / A9.00	TALL OPEN PLYWOOD SHELVING

NOTE: REFER TO SHEETS A9.00 - A9.02 & SPECS FOR ADDITIONAL INFORMATION.

TOTAL QUANTITY TO BE BUILT: 1
SEE SITE PLAN FOR LOCATION(S).

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
NO. 105240
STATE OF TENNESSEE
02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

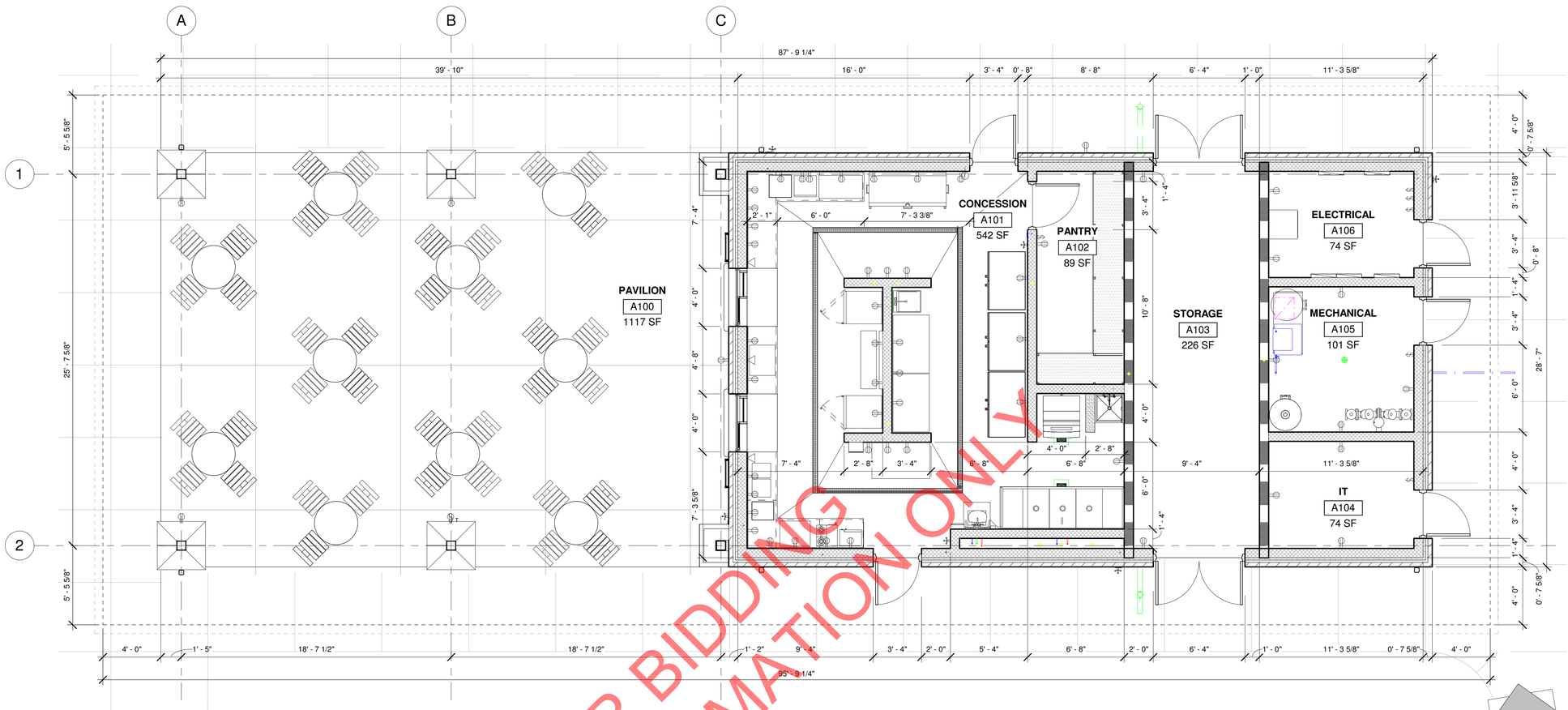
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

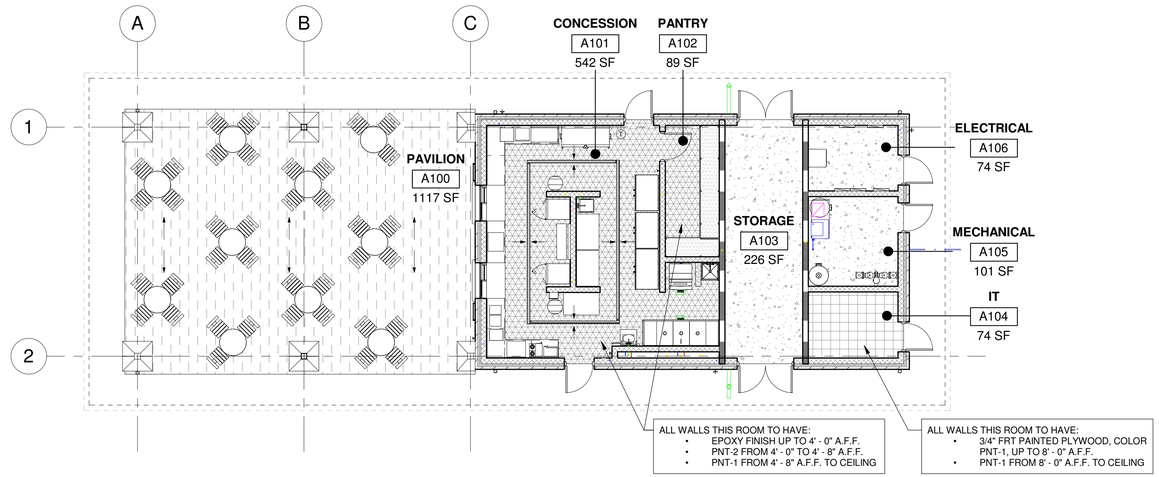
SHEET TITLE
FLOOR PLAN - BUILDING A

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/4" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A2.A1



1 A2.A2 DIMENSION FLOOR PLAN - BUILDING A
1/4" = 1'-0"



2 A2.A2 FINISH PLAN - BUILDING A
1/8" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
NO. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO.	DATE	DESCRIPTION

SHEET TITLE
FLOOR PLAN - BUILDING A

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	As indicated
CHECKED BY	
SG	

SHEET NO.
A2.A2

WALL TYPES - BUILDING B

FIRE RATING	WALL TYPE	WALL DESCRIPTION
N	01	8" CMU + RIGID INSULATION + AIR SPACE + BRICK VENEER
N	02	8" CMU + AIR SPACE + BRICK VENEER
A	03	8" CMU, SEALED & PAINTED AS SCHEDULED
N	03	8" CMU, SEALED & PAINTED AS SCHEDULED
N	04	1/2" SHEATHING+ 2x4 WOOD STUDS + 5/16" FIBER CEMENT LAP SIDING
N	05	ROOF TRUSS + 1/2" SHEATHING +TPO

NOTE: REFER TO SHEET A0.03 & SPECS FOR ADDITIONAL INFORMATION.

TOILET ACCESORIES SCHEDULE - BUILDING B

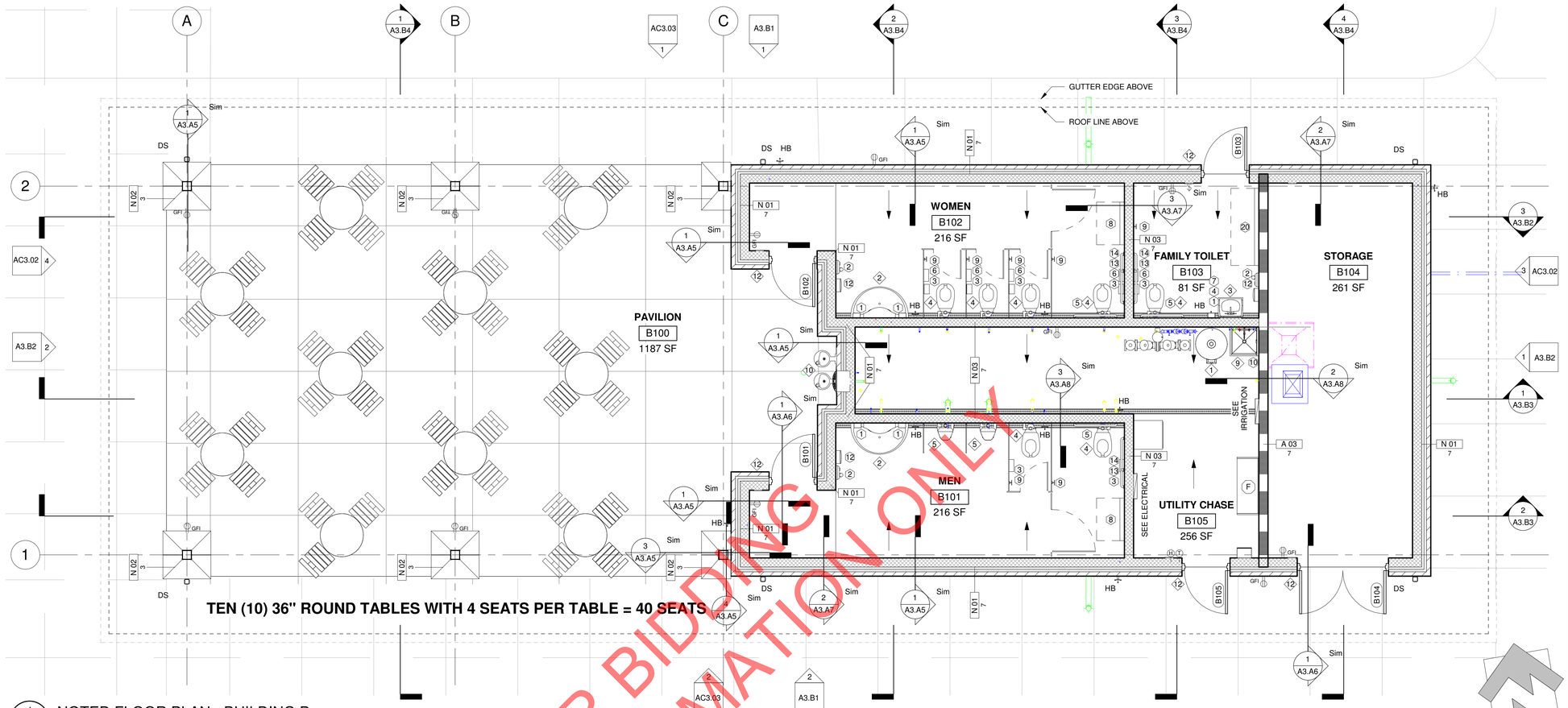
1	SOAP DISPENSER
2	ELEC. HAND DRYER W/ ADA RECESS KIT
3	TOILET PAPER DISPENSER
4	ADA DRAIN PIPE SHIELD
5	36" GRAB BAR
6	SANITARY NAPKIN RECEPTACLE
7	18" x 30" MIRROR
8	BABY CHANGING STATION
9	ROBE HOOK
10	MOP RACK
11	SURFACE MOUNTED FIRE EXTINGUISHER
12	PAPER TOWEL DISPENSER
13	18" GRAB BAR
14	42" GRAB BAR
20	ADULT CHANGING STATION

NOTE: REFER TO SHEET A0.02 & SPECS FOR ADDITIONAL INFORMATION.

FIXTURE & EQUIPMENT SCHEDULE - BUILDING B

1	WATER HEATER
3	WALL MOUNTED SINK - ADA HEIGHT
4	FLOOR MOUNTED TOILET - ADA COMPLIANT
5	WALL MOUNTED URINAL - ADA HEIGHT
9	MOP SINK
12	ROOM SIGNAGE
13	CEILING FAN

NOTE: REFER TO SHEET A0.02 & SPECS FOR ADDITIONAL INFORMATION.



1 A2.B1 NOTED FLOOR PLAN - BUILDING B
1/4" = 1'-0"

PLAN NOTES

1. BUILDING FFE LISTED AS 0' - 0", COORDINATE ACTUAL ELEVATION WITH CIVIL.
2. ALL EXPOSED STEEL TO HAVE POWDER COATED FINISH, U.N.O. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTIONS, TYP.
3. 8" x 8" GLASS BLOCK WITH SILL AT 8' - 8" AFF, TYP. SEE ELEVATIONS FOR LOCATIONS AND DIMENSIONS.
4. PROVIDE EVENLY SPACED CONSTRUCTION / CONTROL JOINTS IN ALL BUILDING CONCRETE SLABS. SPACE JOINTS (IN FEET) NO MORE THAN 2 TIMES THE SLAB THICKNESS (IN INCHES). EX.: A 4" SLAB WILL HAVE JOINTS NO MORE THAN 8' - 0" APART. JOINTS ARE TO BE 25% OF THE DEPTH OF THE SLAB. SEE STRUCTURAL.
5. COORDINATE PLACEMENT OF EXTERIOR SLAB JOINTS WITH EXTERIOR CONCRETE JOINTS; SEE SITE / CIVIL.
6. PROVIDE EVENLY SPACED CONTROL / EXPANSION JOINTS IN ALL CMU WALLS AT ALL CORNERS, AND WITHIN WALL SECTIONS NO FARTHER APART THAN TWICE THE HEIGHT OF THE WALL, OR 40' - 0" MAXIMUM, WHICHEVER IS LESS.
7. PROVIDE EVENLY SPACED CONTROL / EXPANSION JOINTS IN ALL GYPSUM WALLS AT MAXIMUM 24' - 0" HORIZONTALLY & VERTICALLY, TYP.
8. ALL IT ROOM WALLS TO RECEIVE 3/4" FRT PLYWOOD FINISH UP TO 8' - 0" AFF, PAINTED WITH PNT-_. WALLS ABOVE PLYWOOD TO BE CMU AS INDICATED. ALL EXPOSED FACES OF CMU TO BE PAINTED WITH PNT-_, U.N.O.
9. ALL LOCATIONS RECEIVING EPOXY FLOOR SYSTEMS ARE TO HAVE EPOXY SYSTEM CONTINUED 4' - 0" UP THE VERTICAL FACE OF ALL WALLS IN ROOM.
   A. DIRECTLY ABOVE EPOXY, CMU TO BE PAINTED WITH 8" HIGH BAND OF ACCENT PAINT DIRECTLY ABOVE EPOXY, PAINT COLOR PNT-_.
   B. WALL ABOVE ACCENT BAND TO BE PAINTED PNT-_, TYP.
10. ALL EXPOSED INTERIOR CMU TO BE SMOOTH FACED, SEALED & PAINTED AS SCHEDULED. COURSING SHALL BE PLACED IN EVEN 8" INCREMENTS FOR EVEN SCORE PATTERNS, U.N.O.
11. ALL ELECTRICAL AND PLUMBING DEVICES ON EXTERIOR WALLS TO BE "CENTERED" WITHIN INDIVIDUAL CMU BLOCK VERTICALLY AND HORIZONTALLY (W.P. OUTLETS, HOSE BIB, ETC.) AND SHALL HAVE SMOOTH FACE AT ALL FIXTURE MOUNTING LOCATIONS.
12. ALL EXTERIOR PLUMBING DEVICES TO BE FREEZEPROOF, TYP.
13. ALL FIRE EXTINGUISHERS ARE TO BE PLACED IN A WALL MOUNTED CABINET FOLLOWING ALL FIRE, SAFETY, & ACCESSIBILITY CODE REQUIREMENTS. FIRE EXTINGUISHER CABINETS ARE TO BE EITHER SURFACE MOUNTED OR SEMI-RECESSED AS INDICATED.
14. ALL CUPOLA LOUVERS TO BE FULLY TRIMMED IN 1x4 BATTEN TRIM, COLOR TO MATCH MOUNTED SURFACE, TYP.
15. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, & FLOORS.
16. ALL RESTROOMS, UTILITY CHASES, WORK SPACES, AND FOOD SERVICE PREP AREAS TO HAVE FLOOR DRAINS AND/OR TRENCH DRAINS AS INDICATED. PROVIDE FLOOR SINK AT ALL 3 COMPARTMENT SINKS AND ALL ICE MAKER BIN LOCATIONS, TYP. SEE PLUMBING.
17. ALL FLOORS TO SLOPE AT 1/8" PER FOOT AS INDICATED BY SLOPE ARROWS, TYP.
18. CAULK ALL DOOR & WINDOW FRAMES AT THE JOINT BETWEEN THE FRAME & THE ADJACENT SUBSTRATE.
19. CAULK ALL JOINTS BETWEEN FIXED CASEWORK, PLUMBING FIXTURES, & BACKSPLASH TO WALL TRANSITION JOINT.
20. RUN ALL DOWNSPOUTS TO UNDERGROUND CONNECTIONS. COORDINATE WITH CIVIL.
21. ALL EXPOSED LUMBER TO BE STAINED & SEALED, COLOR TBD. SEE SPECS.
22. ALL TABLES & CHAIRS AT PAVILION LOCATIONS TO BE ANCHORED INTO SLAB, TYP. SEE SPECS.

DOOR SCHEDULE - BUILDING B

DOOR NUMBER	ROOM NAME	TYPE	PANEL SIZE WIDTH	PANEL SIZE HEIGHT	PANEL THICKNESS	PANEL MAT.	PANEL FIN.	FRAME TYPE	FRAME MAT.	FRAME FIN.	HARDWARE SET	DOOR NOTES
FLOOR PLAN												
B101	MEN	FA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 3	1,2,4
B102	PAVILION	FA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 3	1,2,4
B103	FAMILY TOILET	FA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 3	1,2,4
B104	STORAGE	FB	6' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FB	H.M.	PNT-3	SET 4	1,2,4
B105	UTILITY CHASE	FA	3' - 0"	7' - 0"	0' - 1 3/4"	I.M.	PNT-3	FA	H.M.	PNT-3	SET 1	1,2,4
B200	MECHANICAL GATES	N/A	4' - 0"	6' - 0"	N/A	N/A	N/A	N/A	N/A	N/A	SET 5	1, 3

NOTE: REFER TO SHEETS A8.00 - A8.01 & SPECS FOR ADDITIONAL INFORMATION.

WINDOW SCHEDULE - BUILDING B

ROOM NUMBER	ROOM NAME	WINDOW TYPE	WINDOW NUMBER	WIDTH	HEIGHT	HEAD HEIGHT	SILL HEIGHT	COMMENTS

NOT APPLICABLE THIS BUILDING.

LOUVER SCHEDULE - BUILDING B

LOUVER NUMBER	LOUVER LOCATION	LOUVER TYPE	LOUVER WIDTH	LOUVER HEIGHT	COMMENTS
B1	CUPOLA	L01	5' - 0"	2' - 0"	
B2	CUPOLA	L01	5' - 0"	2' - 0"	
B3	CUPOLA	L01	5' - 0"	2' - 0"	
B4	CUPOLA	L01	5' - 0"	2' - 0"	

NOTE: REFER TO SHEET A7.03 & SPECS FOR ADDITIONAL INFORMATION.

ROOM FINISH SCHEDULE - BUILDING B

ROOM NUMBER	ROOM NAME	FLOOR	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	BASE	CEILING	NOTES
FLOOR PLAN									
B100	PAVILION	SC-1	N/A	N/A	N/A	N/A	N/A	FCB-2	
B101	MEN	EP-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EB-1	PLY-2	
B102	WOMEN	EP-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EB-1	PLY-2	
B103	FAMILY TOILET	EP-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EP-1/PNT-2 /PNT-1	EB-1	PLY-2	
B104	STORAGE	SC-2	PNT-1	PNT-1	PNT-1	PNT-1	N/A	GYP-2	
B105	UTILITY CHASE	SC-2	PNT-1						

NOTE: REFER TO SHEETS A0.03, A2.B2 & SPECS FOR ADDITIONAL INFORMATION.

SIGNAGE SCHEDULE - BUILDING B

ROOM NUMBER	ROOM NAME	TYPE MARK	DIMENSIONS	COMMENTS
B101	MEN	12	7 1/2" x 7 1/2"	
B102	WOMEN	12	7 1/2" x 7 1/2"	
B103	FAMILY TOILET	12	7 1/2" x 7 1/2"	
B104	STORAGE	12	7 1/2" x 7 1/2"	
B105	UTILITY CHASE	12	7 1/2" x 7 1/2"	

NOTE: REFER TO SHEET A0.02 & SPECS FOR ADDITIONAL INFORMATION.

CASEWORK SCHEDULE - BUILDING B

ROOM NUMBER	ROOM NAME	FINISH	WIDTH	HEIGHT	DEPTH	DETAIL REFERENCE	CASEWORK TYPE / COMMENTS

NOT APPLICABLE THIS BUILDING.

TOTAL QUANTITY TO BE BUILT: 1
SEE SITE PLAN FOR LOCATION(S).

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
LICENSED LANDSCAPE ARCHITECT
No. 105240
STATE OF TENNESSEE
02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
TENNESSEE
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN

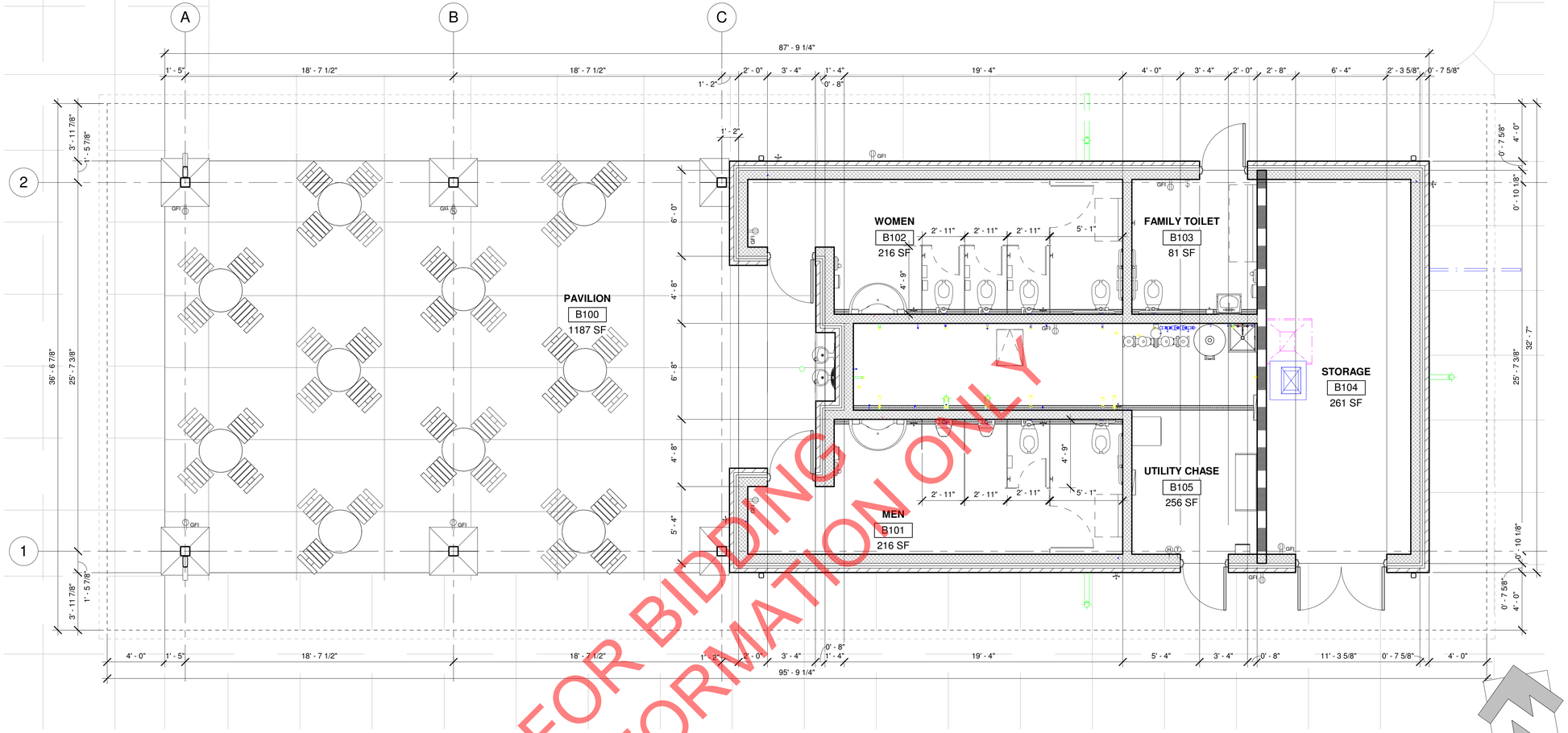
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

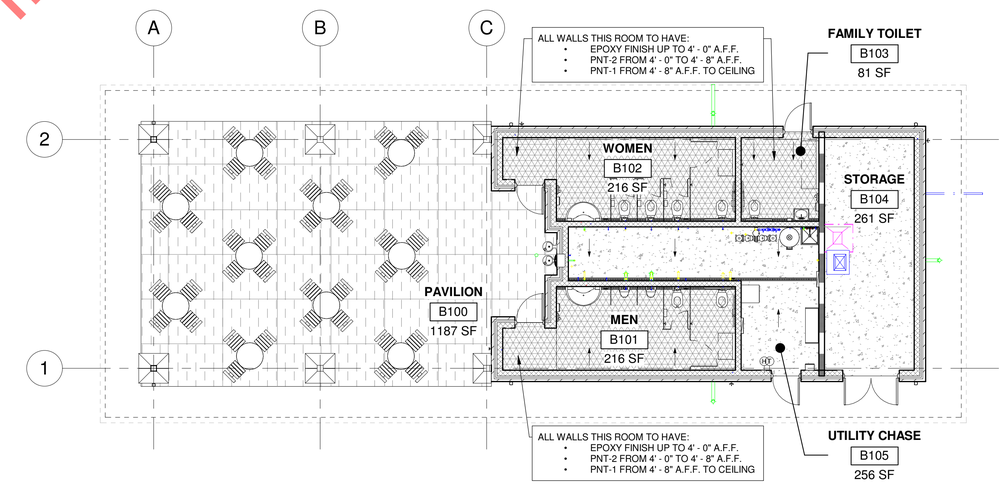
SHEET TITLE
FLOOR PLAN - BUILDING B

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/4" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A2.B1



1 A2.B2 DIMENSION FLOOR PLAN - BUILDING B
1/4" = 1'-0"



2 A2.B2 FINISH PLAN - BUILDING B
1/8" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
FLOOR PLAN - BUILDING B

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A2.B2

WALL TYPES - BUILDING F

FIRE RATING	WALL TYPE	WALL DESCRIPTION
N	08	8" INTEGRALLY COLORED SPLIT FACE C.M.U.
N	10	8" INTEGRALLY COLORED SMOOTH FACE C.M.U.

NOTE: REFER TO SHEET A0.03 & SPECS FOR ADDITIONAL INFORMATION.

DOOR SCHEDULE - BUILDING F

DOOR NUMBER	ROOM NAME	PANEL SIZE TYPE	WIDTH	HEIGHT	THICKNESS	MAT.	FIN.	FRAME TYPE	MAT.	FIN.	HARDWARE SET	DOOR NOTES

NOT APPLICABLE THIS BUILDING.

WINDOW SCHEDULE - BUILDING F

VG	ROOM NAME	WINDOW TYPE	WINDOW NUMBER	WIDTH	HEIGHT	LEVEL	HEAD HEIGHT	SILL HEIGHT	COMMENTS

NOT APPLICABLE THIS BUILDING.

LOUVER SCHEDULE - BUILDING F

LOUVER NUMBER	LOUVER LOCATION	LOUVER TYPE	LOUVER WIDTH	LOUVER HEIGHT	HEAD HEIGHT	SILL HEIGHT	COMMENTS

NOT APPLICABLE THIS BUILDING.

ROOM FINISH SCHEDULE - BUILDING F

ROOM NUMBER	ROOM NAME	FLOOR	WALLS NORTH	EAST	SOUTH	WEST	BASE	CEILING	NOTES
FLOOR PLAN									
F100	STORAGE BIN	SC-2	N/A	CMU-3	CMU-2	CMU-2	N/A	FCB-2	
F101	STORAGE BIN	SC-2	N/A	CMU-2	CMU-2	CMU-3	N/A	FCB-2	

NOTE: REFER TO SHEET A0.03, A2.F1, & SPECS FOR ADDITIONAL INFORMATION.

SIGNAGE SCHEDULE - BUILDING F

ROOM NUMBER	ROOM NAME	TYPE MARK	DIMENSIONS	COMMENTS

NOT APPLICABLE THIS BUILDING.

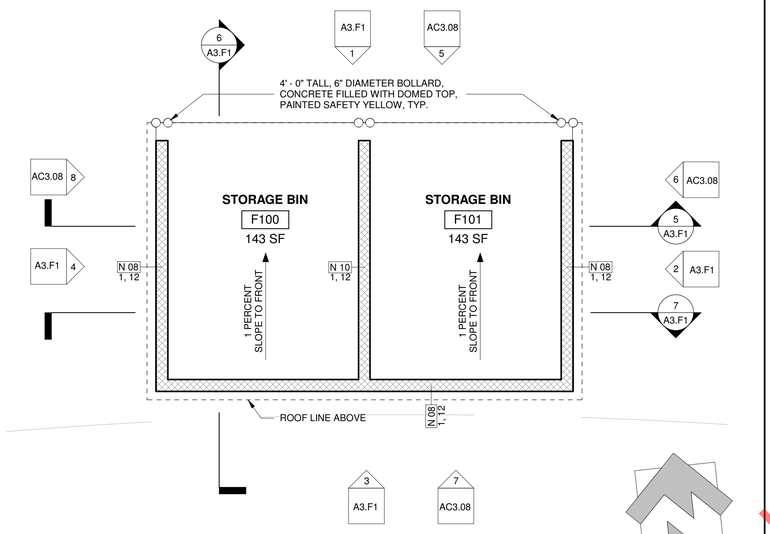
CASEWORK SCHEDULE - BUILDING F

ROOM NUMBER	ROOM NAME	FINISH	WIDTH	HEIGHT	DEPTH	DETAIL REFERENCE	CASEWORK TYPE / COMMENTS

NOT APPLICABLE THIS BUILDING.

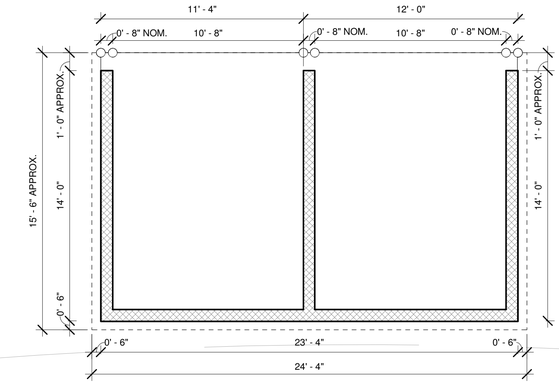
PLAN NOTES

1. BUILDING FFE LISTED AS 0' - 0", COORDINATE ACTUAL ELEVATION WITH CIVIL.
2. ALL EXPOSED STEEL TO HAVE POWDER COATED FINISH, U.N.O. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD SELECTIONS, TYP.
3. PROVIDE EVENLY SPACED CONSTRUCTION / CONTROL JOINTS IN ALL BUILDING CONCRETE SLABS. SPACE JOINTS (IN FEET) NO MORE THAN 2 TIMES THE SLAB THICKNESS (IN INCHES). EX.: A 4" SLAB WILL HAVE JOINTS NO MORE THAN 8' - 0" APART. JOINTS ARE TO BE 25% OF THE DEPTH OF THE SLAB. SEE STRUCTURAL.
4. COORDINATE PLACEMENT OF EXTERIOR SLAB JOINTS WITH EXTERIOR CONCRETE JOINTS; SEE SITE / CIVIL.
5. ALL EXPOSED CMU THIS STRUCTURE TO BE INTEGRALLY COLORED, SPLIT FACE BLOCK. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLOR SELECTIONS.
6. ALL ELECTRICAL AND PLUMBING DEVICES ON EXTERIOR WALLS TO BE "CENTERED" WITHIN INDIVIDUAL CMU BLOCK VERTICALLY AND HORIZONTALLY (W.P. OUTLETS, HOSE BIB, ETC.) AND SHALL HAVE SMOOTH FACE AT ALL FIXTURE MOUNTING LOCATIONS.
7. ALL EXTERIOR PLUMBING DEVICES TO BE FREEZEPROOF, TYP.
8. ALL FIRE EXTINGUISHERS ARE TO BE PLACED IN A WALL MOUNTED CABINET FOLLOWING ALL FIRE, SAFETY, & ACCESSIBILITY CODE REQUIREMENTS. FIRE EXTINGUISHER CABINETS ARE TO BE EITHER SURFACE MOUNTED OR SEMI-RECESSED AS INDICATED.
9. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, & FLOORS.
10. ALL FLOORS TO SLOPE AT 1/8" PER FOOT AS INDICATED BY SLOPE ARROWS, TYP.
11. CAULK ALL DOOR & WINDOW FRAMES AT THE JOINT BETWEEN THE FRAME & THE ADJACENT SUBSTRATE.
12. CAULK ALL JOINTS BETWEEN FIXED CASEWORK, PLUMBING FIXTURES, & BACKSPLASH TO WALL TRANSITION JOINT.

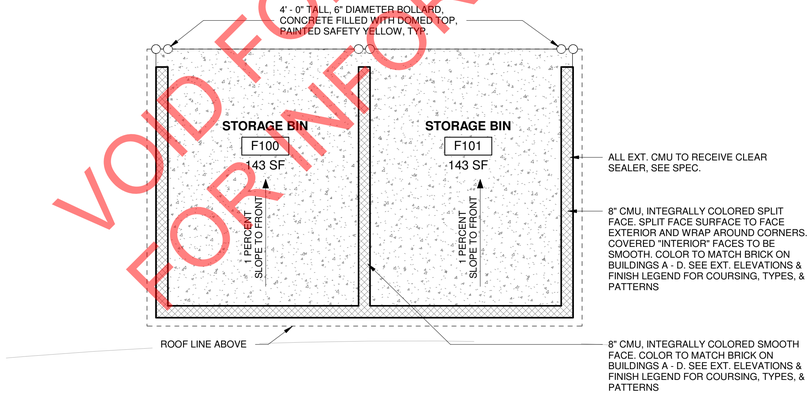


1 A2.F1 NOTED FLOOR PLAN - BUILDING F
1/4" = 1'-0"

NOTE: CENTER OF BOLLARD TO BE IN LINE WITH FACE OF CMU WALL, TYP.
BOLLARD LOCATIONS TO ADJUST BASED ON BUILDING FOOTINGS.
COORDINATE FINAL PLACEMENT WITH ARCHITECT PRIOR TO INSTALLATION.



2 A2.F1 DIMENSION FLOOR PLAN - BUILDING F
1/4" = 1'-0"



3 A2.F1 FINISH PLAN - BUILDING F
1/4" = 1'-0"

TOTAL QUANTITY TO BE BUILT: 1
SEE SITE PLAN FOR LOCATION(S).

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
FLOOR PLAN - BUILDING F

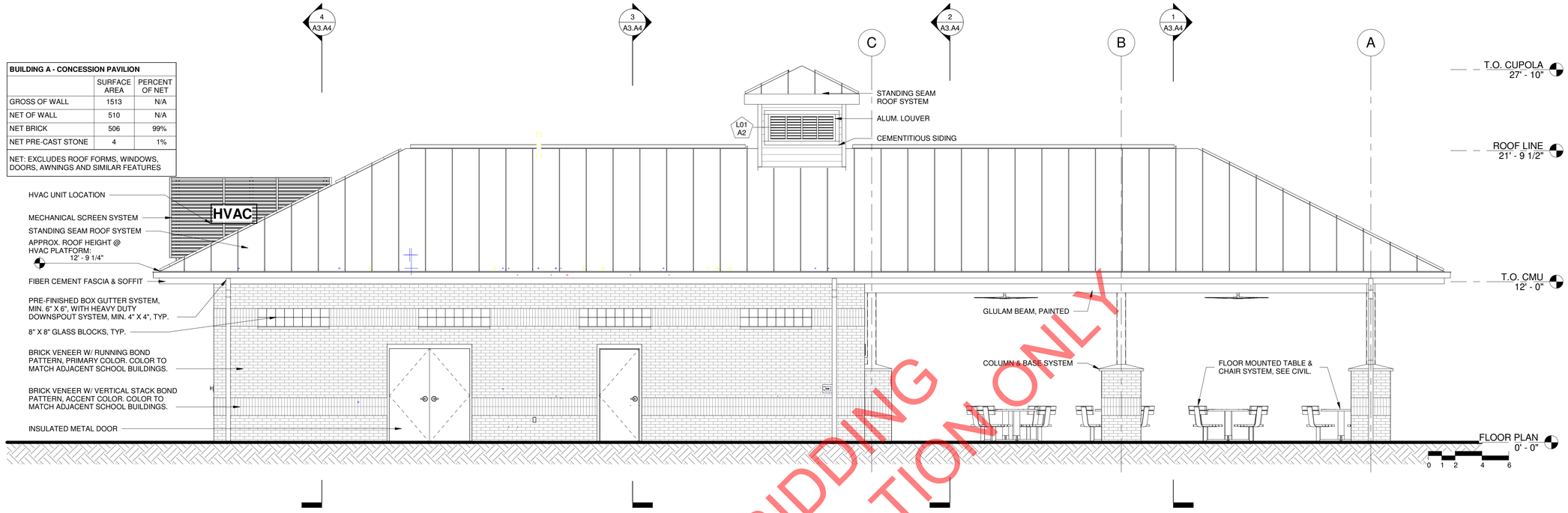
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/4" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A2.F1

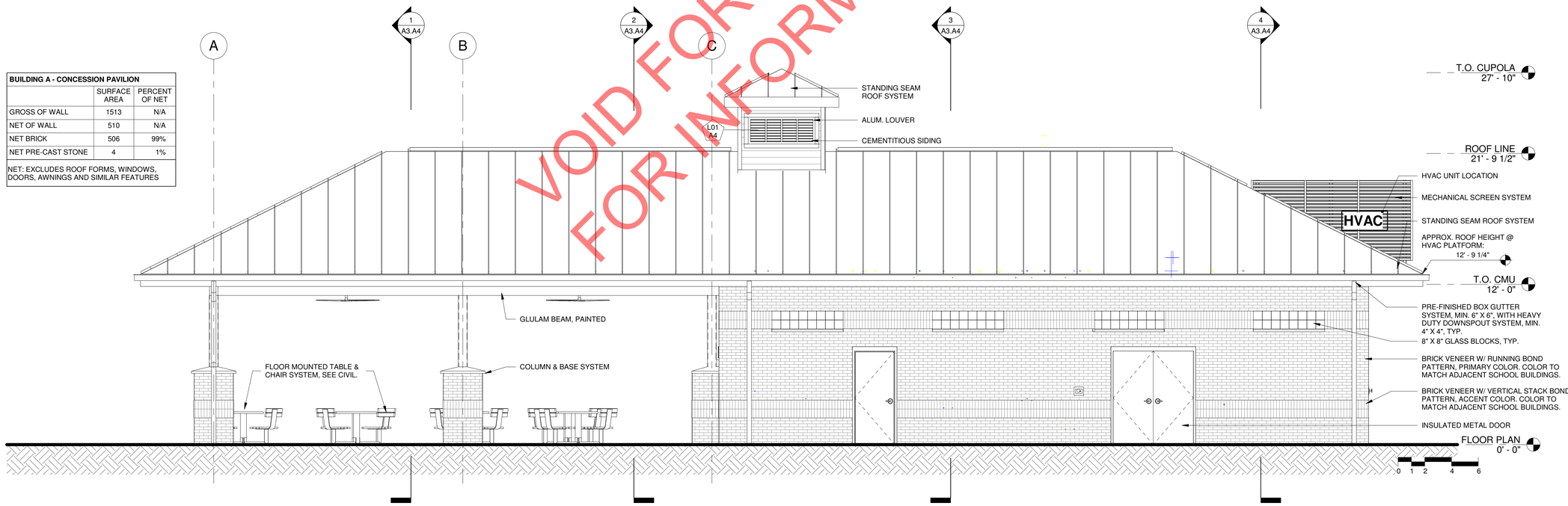
EXTERIOR HVAC UNITS, COOLING AND / OR MECHANICAL UNITS FOR THIS BUILDING ARE LOCATED ON THE:

ROOFTOP

THESE ELEVATIONS HAVE BEEN DESIGN TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE BNS DIRECTOR OR THE PLANNING COMMISSION.



1 A3.A1 NORTH ELEVATION - BUILDING A
1/4" = 1'-0"



2 A3.A1 SOUTH ELEVATION - BUILDING A
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
ARCHITECTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ELEVATIONS - BUILDING A

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/4" = 1'-0"
CHECKED BY SG	

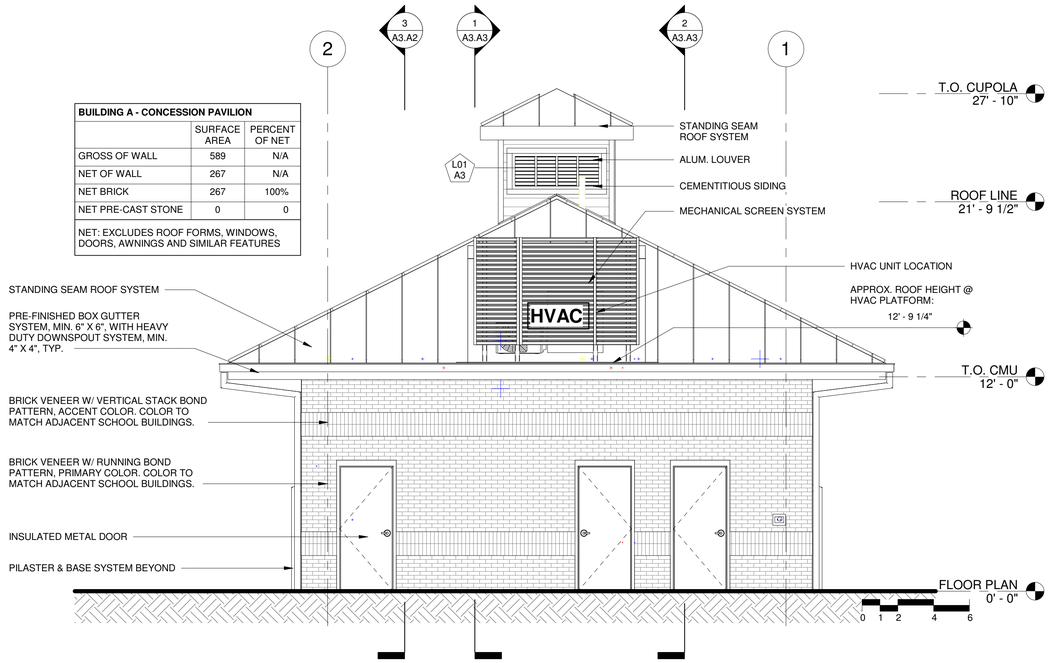
SHEET NO.
A3.A1

EXTERIOR HVAC UNITS, COOLING AND / OR MECHANICAL UNITS FOR THIS BUILDING ARE LOCATED ON THE:

ROOFTOP

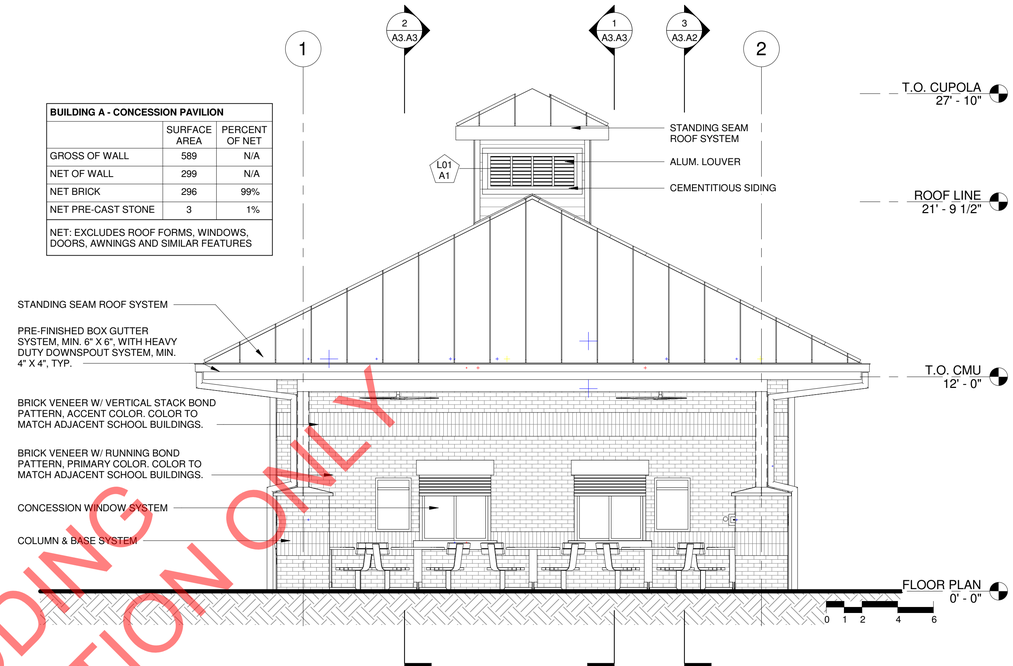
THESE ELEVATIONS HAVE BEEN DESIGN TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE BNS DIRECTOR OR THE PLANNING COMMISSION.

BUILDING A - CONCESSION PAVILION	SURFACE AREA	PERCENT OF NET
GROSS OF WALL	589	N/A
NET OF WALL	267	N/A
NET BRICK	267	100%
NET PRE-CAST STONE	0	0
NET: EXCLUDES ROOF FORMS, WINDOWS, DOORS, AWNINGS AND SIMILAR FEATURES		

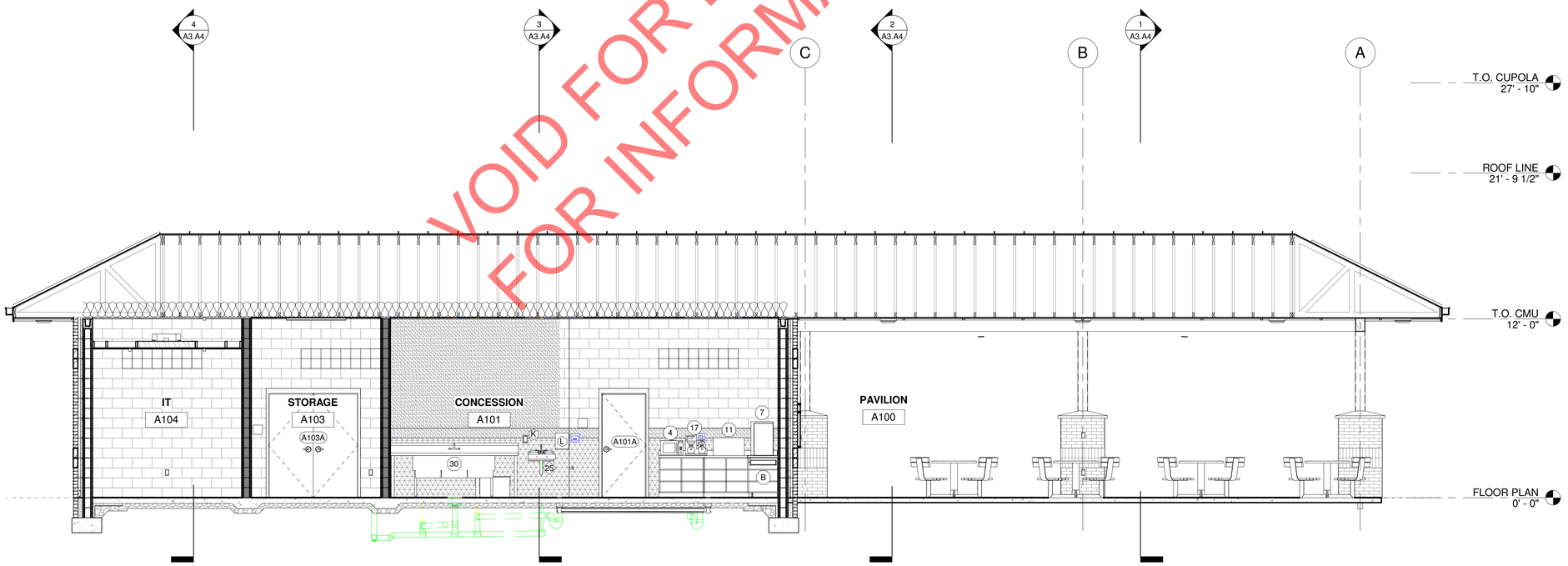


1 A3.A2 EAST ELEVATION - BUILDING A
1/4" = 1'-0"

BUILDING A - CONCESSION PAVILION	SURFACE AREA	PERCENT OF NET
GROSS OF WALL	589	N/A
NET OF WALL	299	N/A
NET BRICK	296	99%
NET PRE-CAST STONE	3	1%
NET: EXCLUDES ROOF FORMS, WINDOWS, DOORS, AWNINGS AND SIMILAR FEATURES		



2 A3.A2 WEST ELEVATION - BUILDING A
1/4" = 1'-0"



3 A3.A2 SECTION 1 - BUILDING A
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

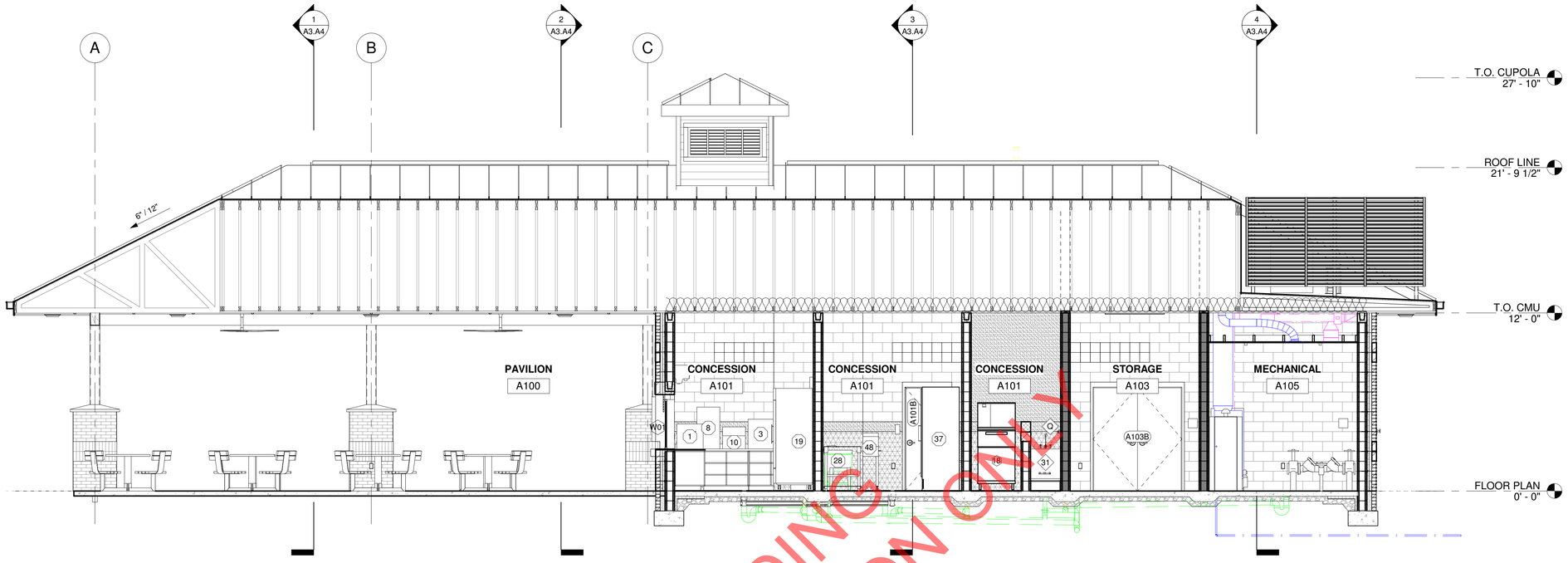
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ELEVATIONS & SECTIONS - BUILDING A

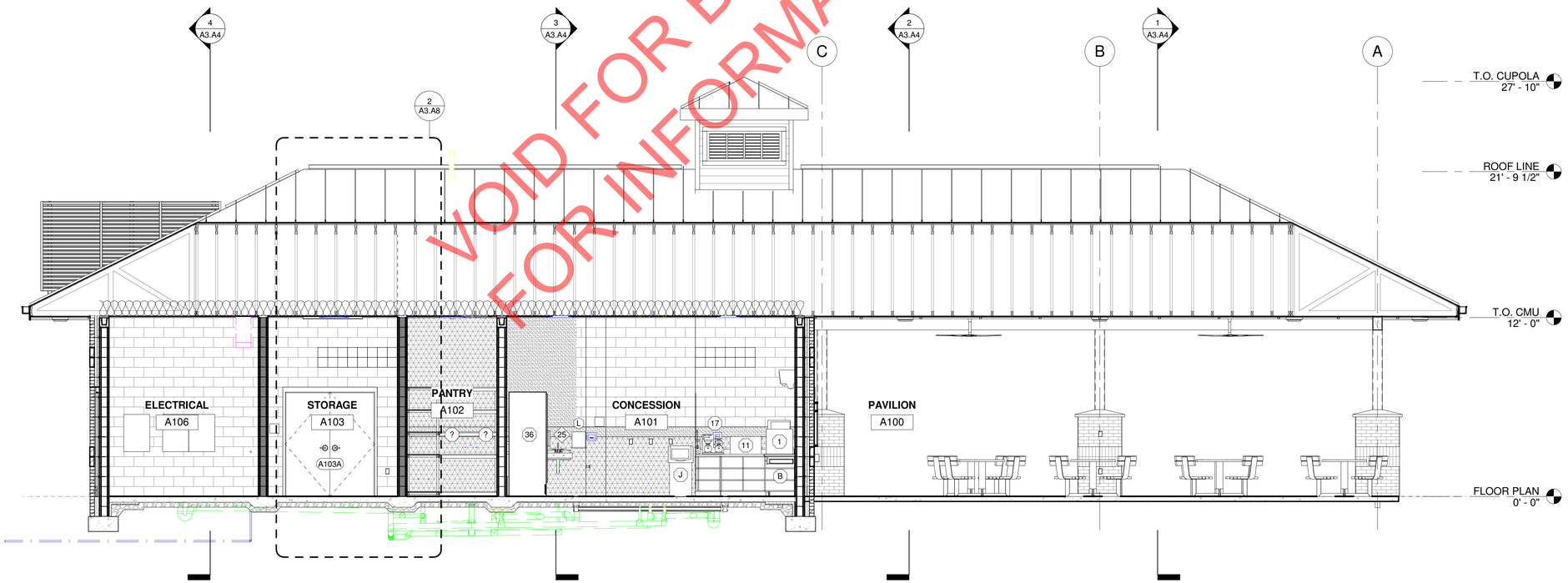
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/4" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A3.A2



1 A3.A3 SECTION 2 - BUILDING A

1/4" = 1'-0"



2 A3.A3 SECTION 3 - BUILDING A

1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

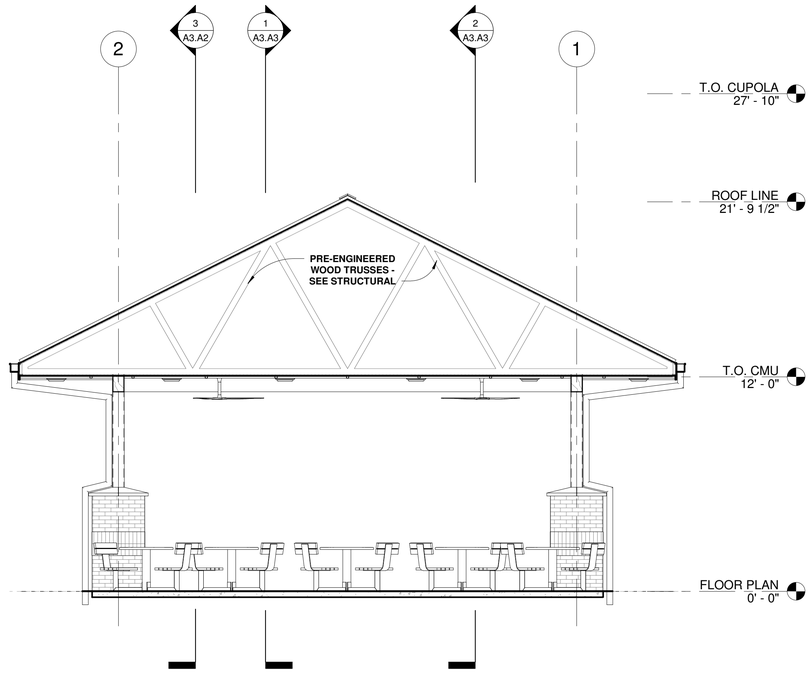
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
SECTIONS - BUILDING A

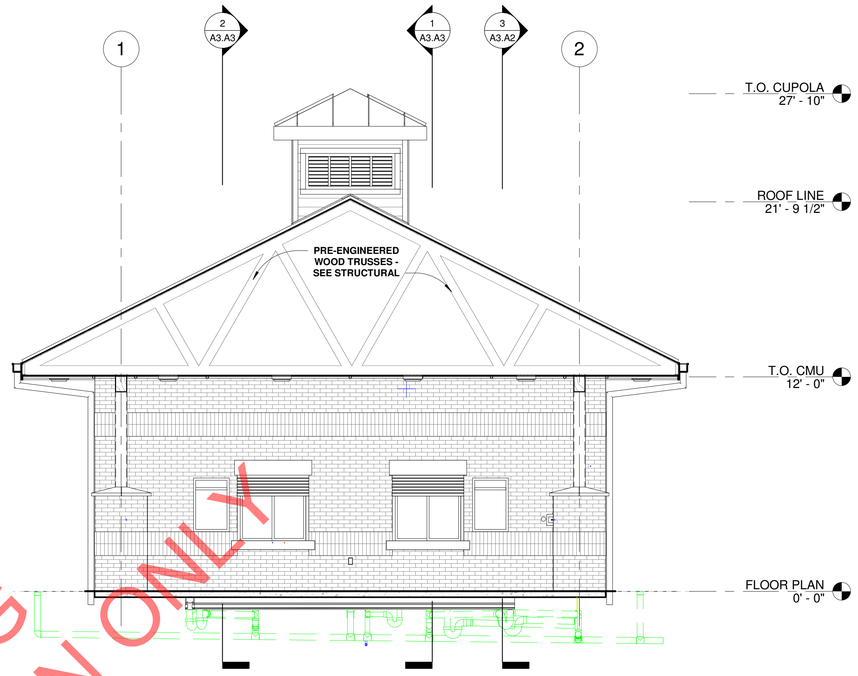
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/4" = 1'-0"
CHECKED BY	
SG	

SHEET NO.
A3.A3



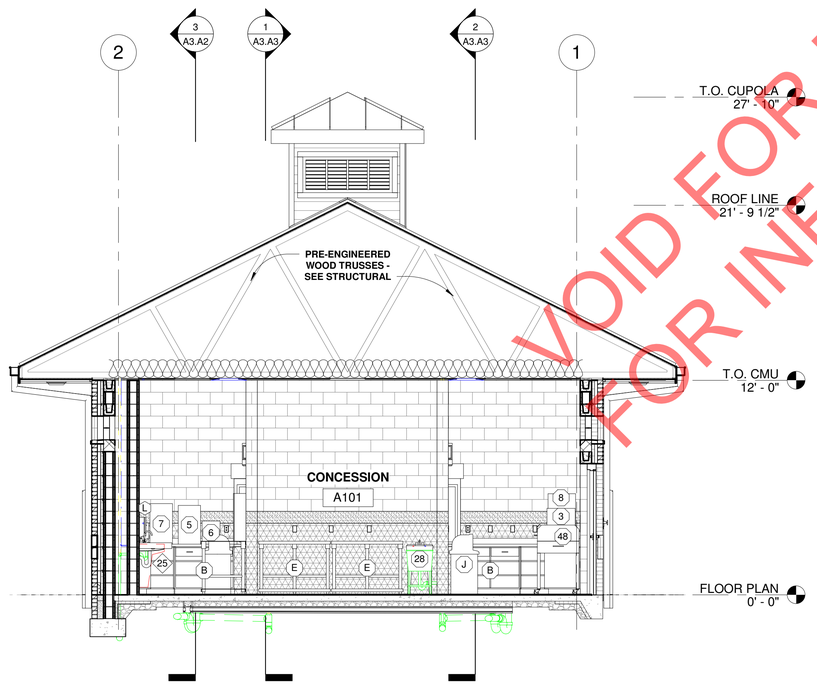
1 / A3.A4 SECTION 4 - BUILDING A

1/4" = 1'-0"



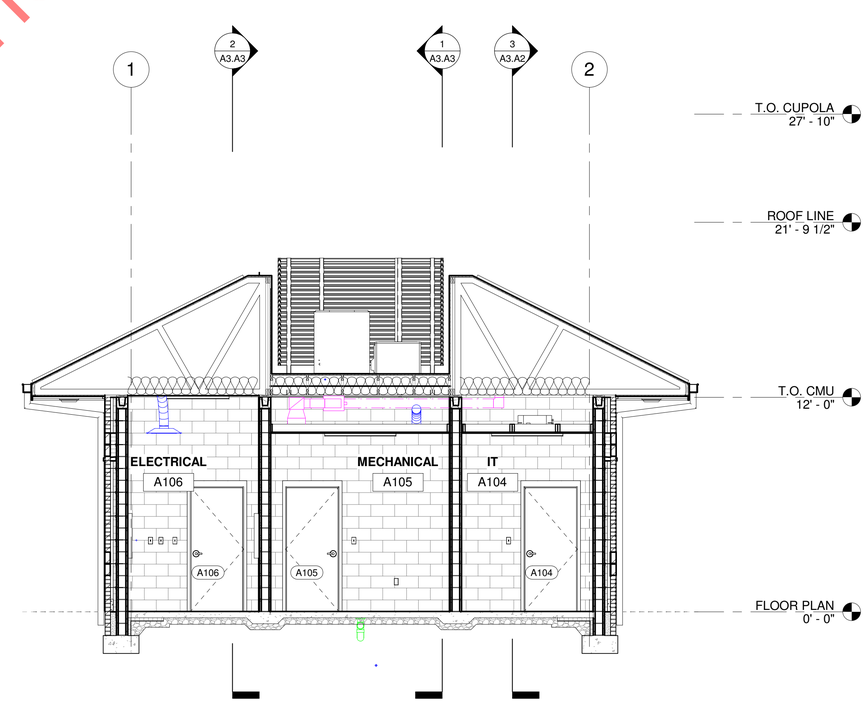
2 / A3.A4 SECTION 5 - BUILDING A

1/4" = 1'-0"



3 / A3.A4 SECTION 6 - BUILDING A

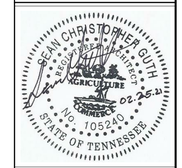
1/4" = 1'-0"



4 / A3.A4 SECTION 7 - BUILDING A

1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.



FREEDOM BALL FIELDS

C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064

PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

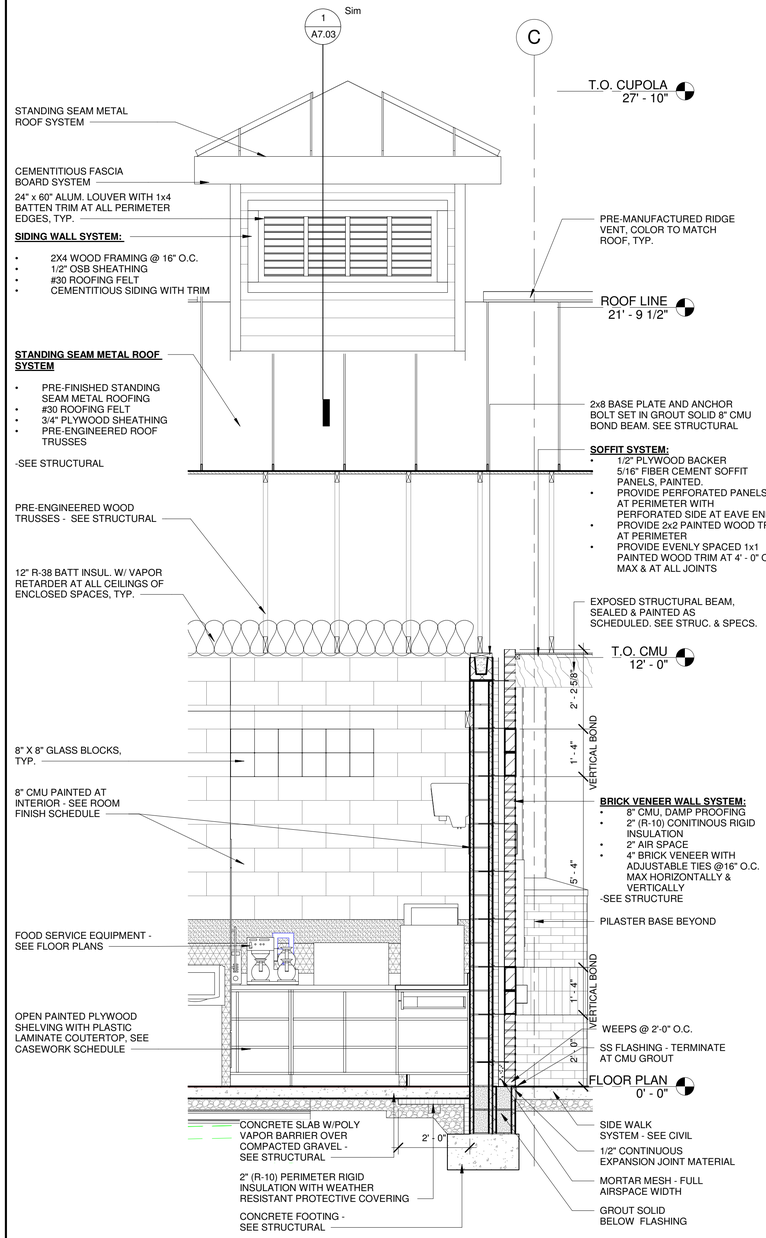
SHEET TITLE

SECTIONS - BUILDING A

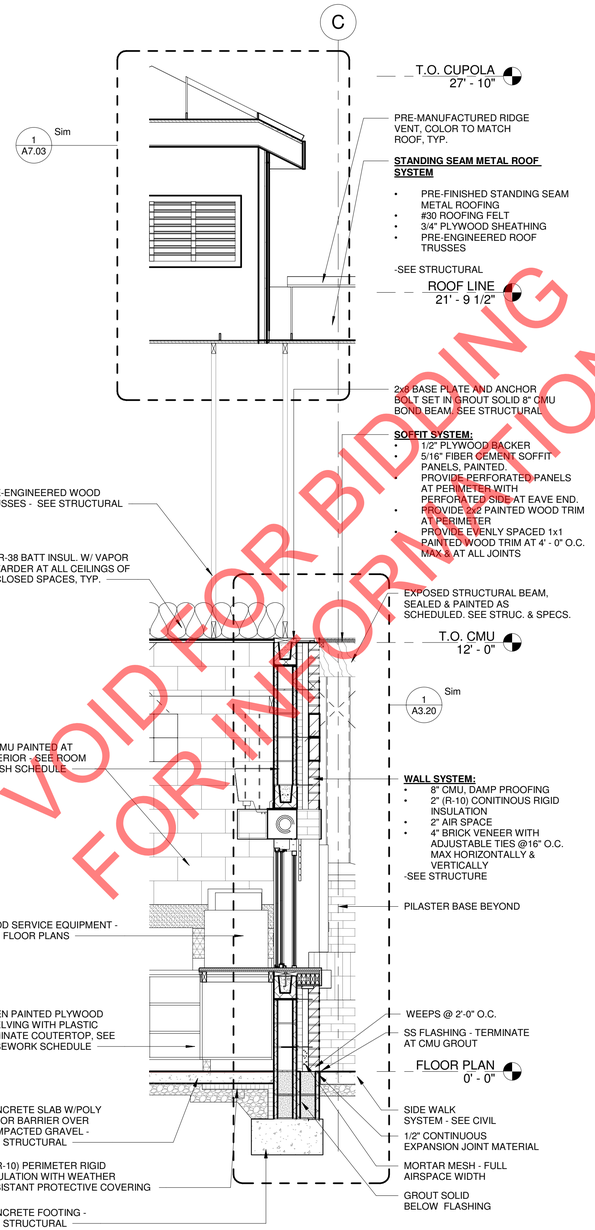
PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/4" = 1'-0"
CHECKED BY SG	

SHEET NO.

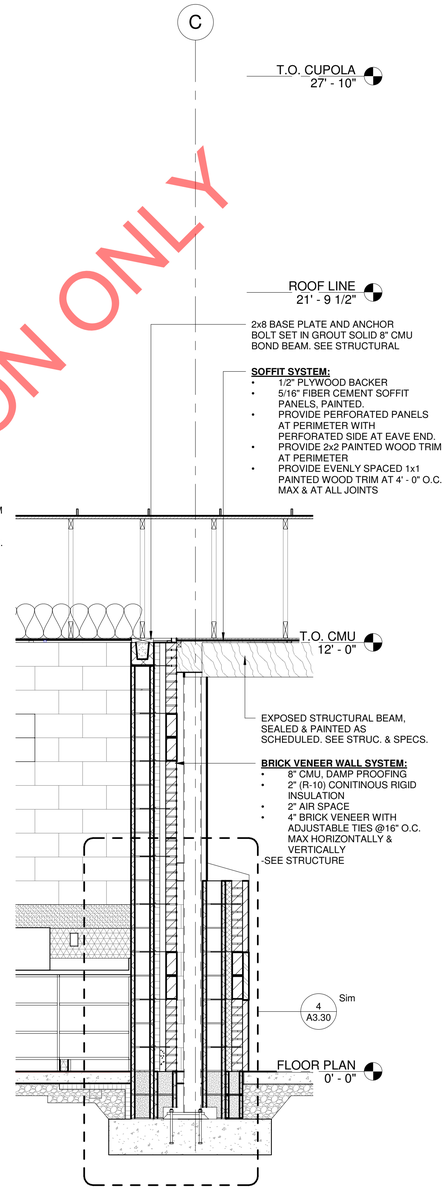
A3.A4



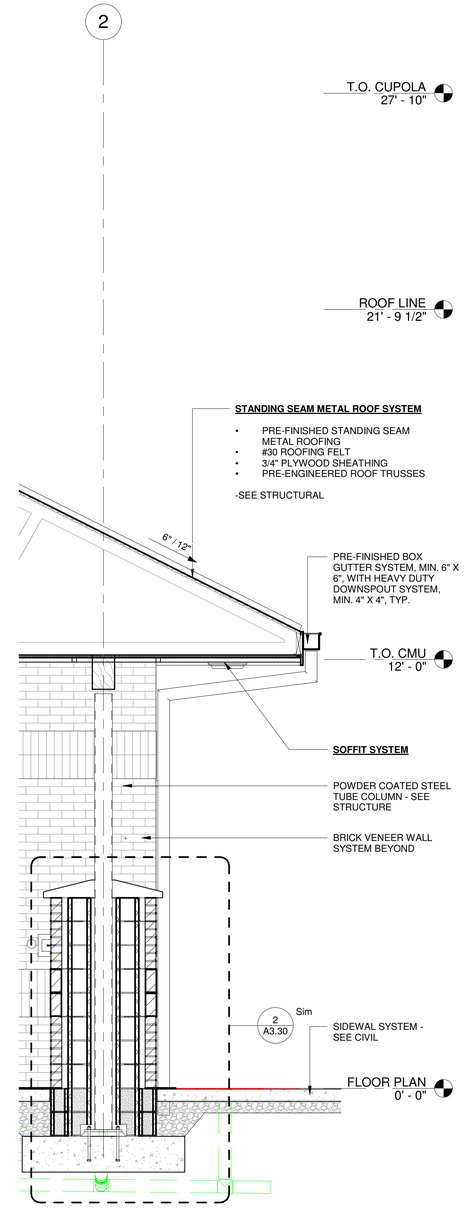
1 A3.A5 WALL SECTION 1 - BUILDING A
1/2" = 1'-0"



2 A3.A5 WALL SECTION 2 - BUILDING A
1/2" = 1'-0"



3 A3.A5 WALL SECTION 3 - BUILDING A
1/2" = 1'-0"



4 A3.A5 WALL SECTION 4 - BUILDING A
1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
STATE OF TENNESSEE
AGRICULTURE
No. 105240
02.25.21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

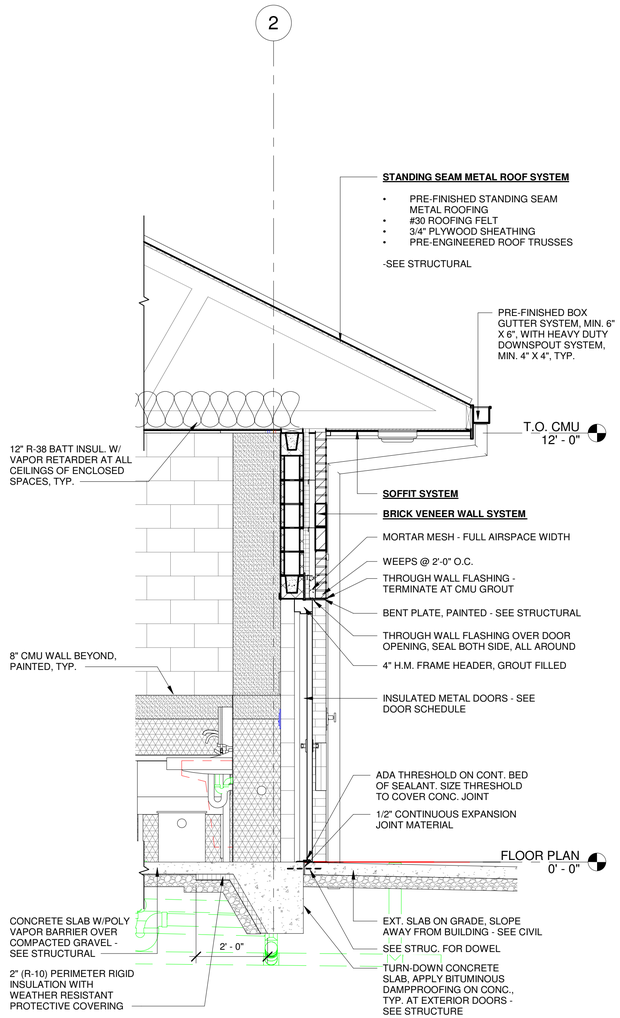
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

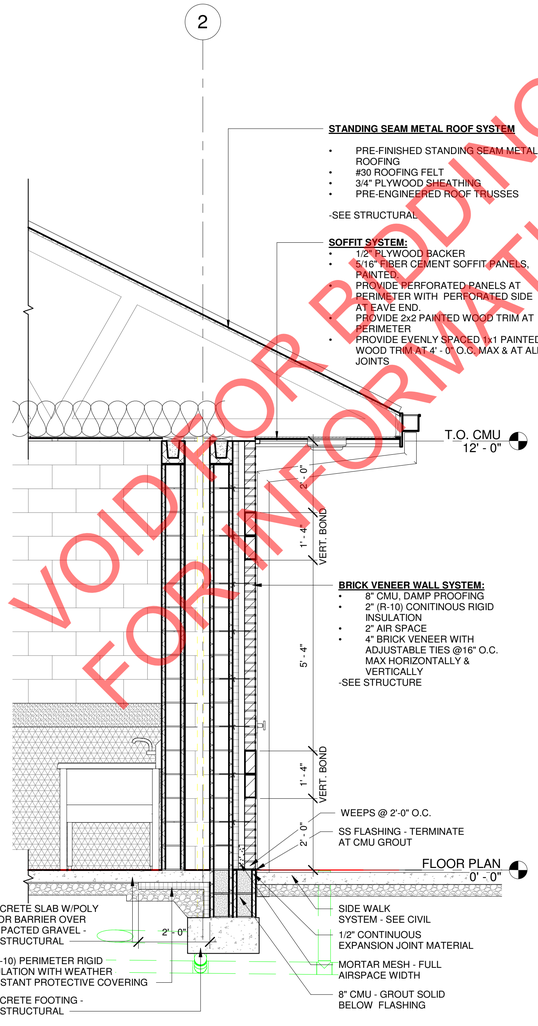
SHEET TITLE
WALL SECTIONS - BUILDINGS A & B

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/2" = 1'-0"
CHECKED BY	
SG	

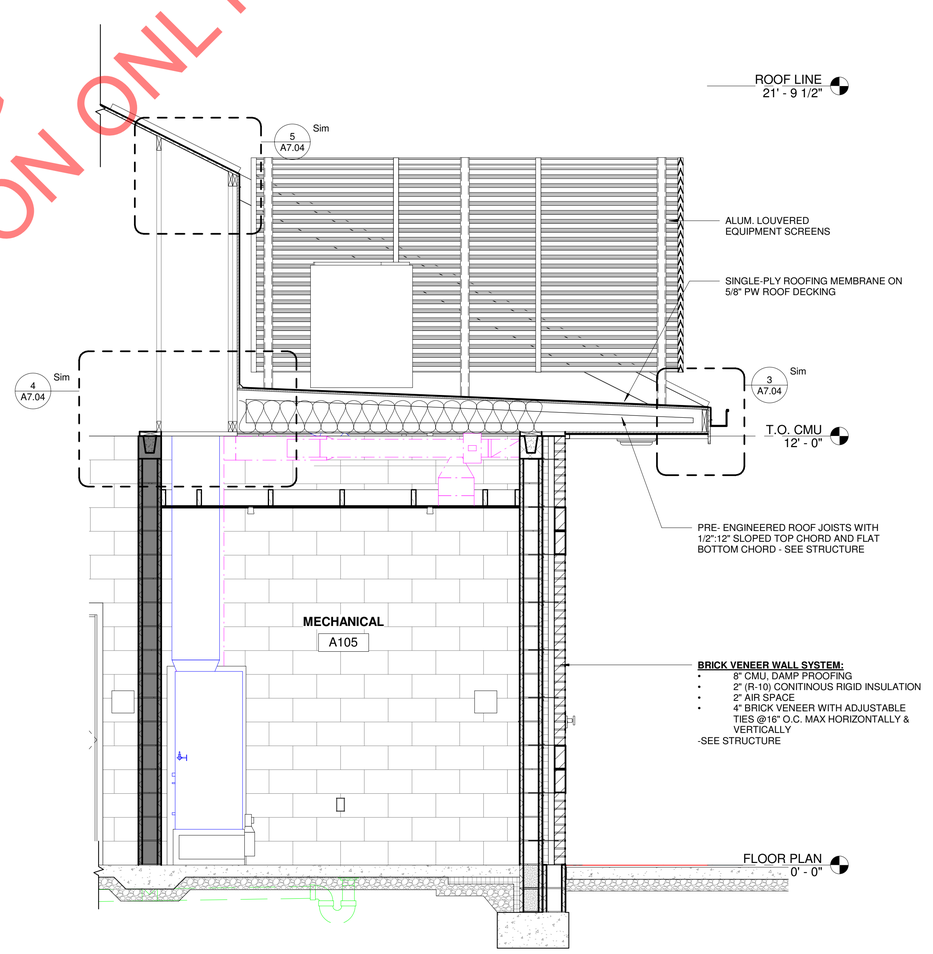
SHEET NO.
A3.A5



1 A3.A6 WALL SECTION 5 - BUILDING A
1/2" = 1'-0"



2 A3.A6 WALL SECTION 6 - BUILDING A
1/2" = 1'-0"



3 A3.A6 WALL SECTION 7 - BUILDING A
1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
TENNESSEE
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN

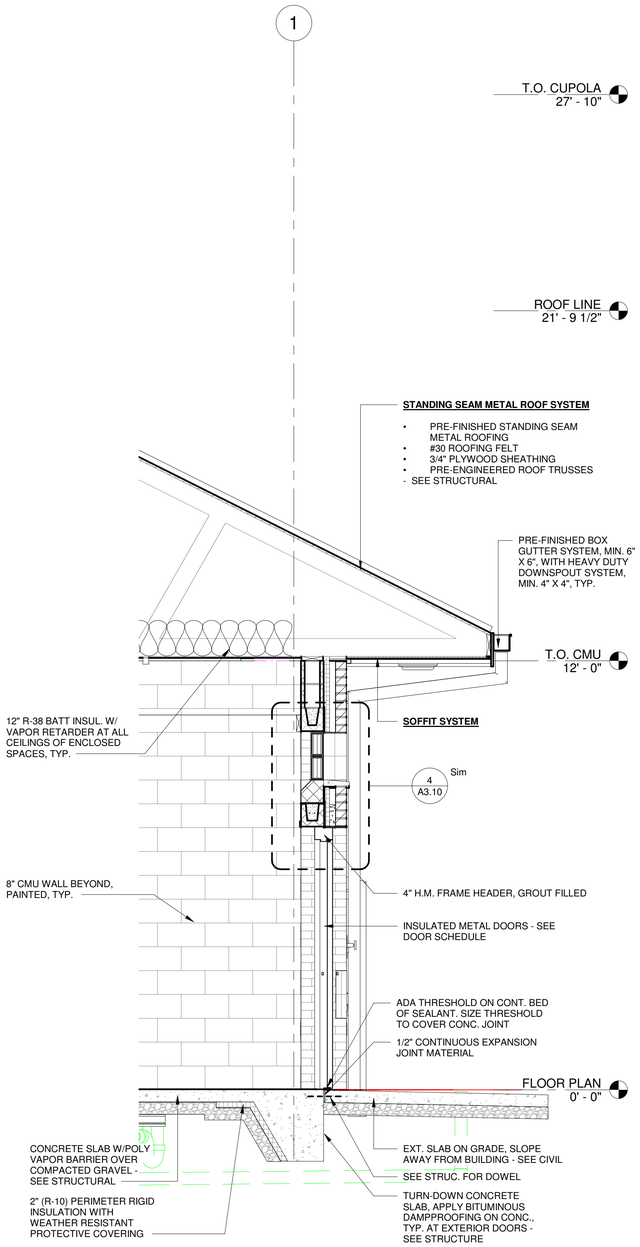
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

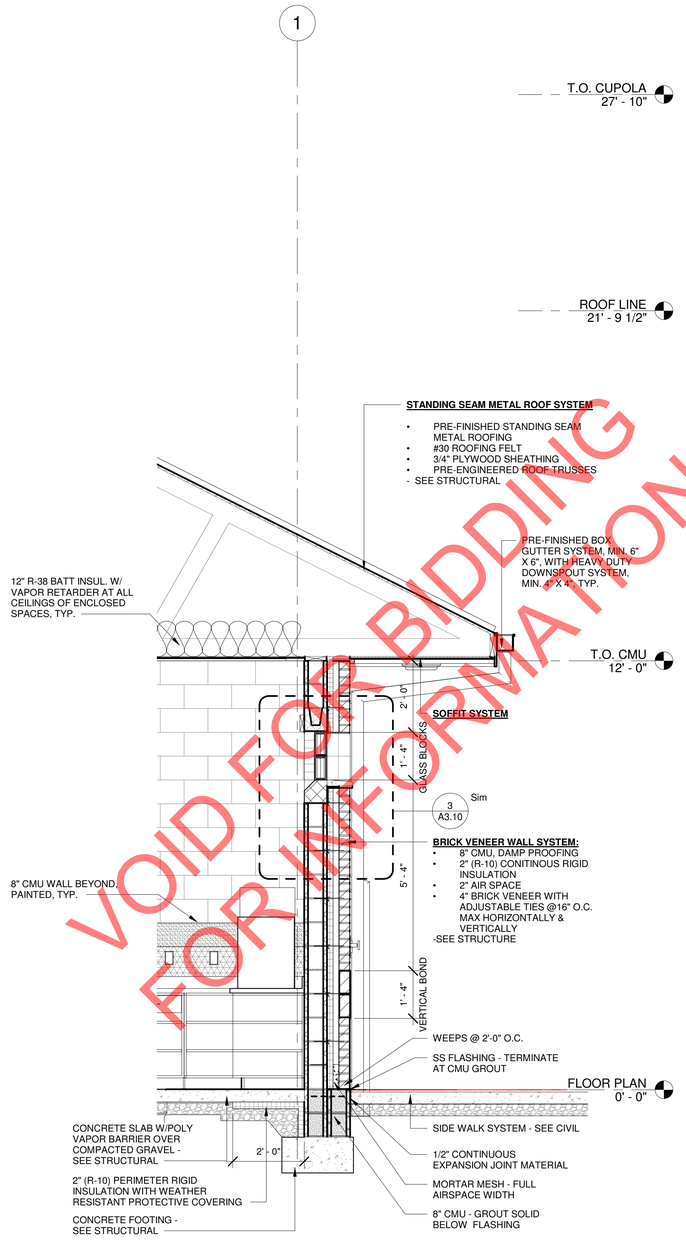
SHEET TITLE
WALL SECTIONS - BUILDINGS A & B

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/2" = 1'-0"
CHECKED BY SG	

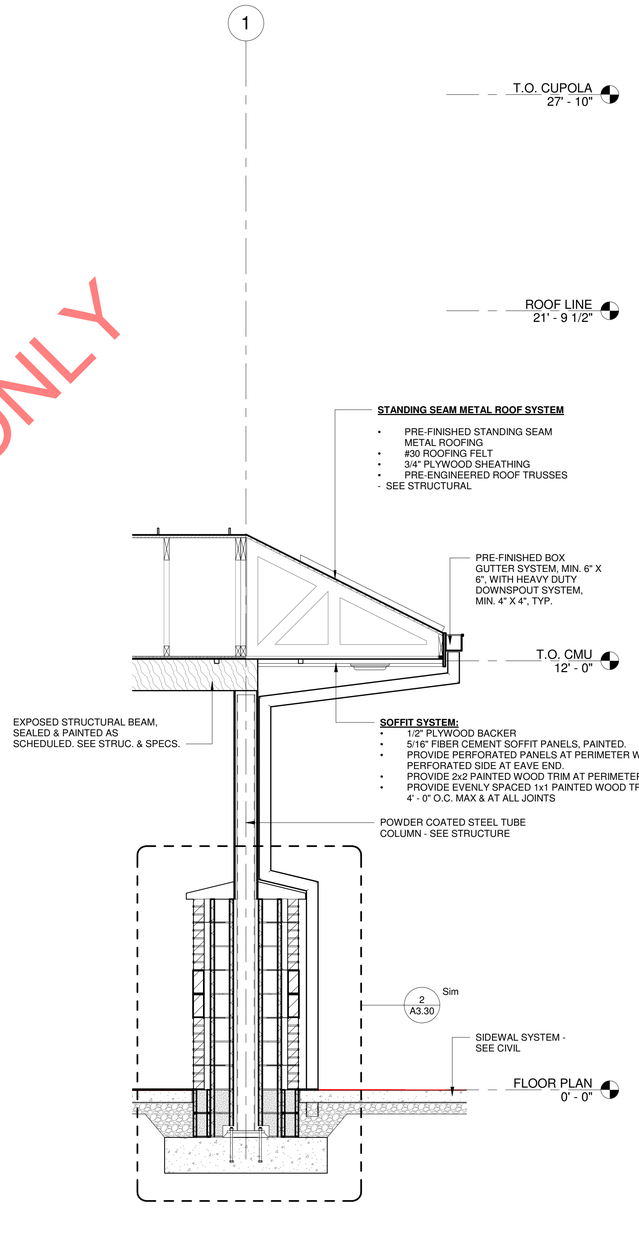
SHEET NO.
A3.A6



1 A3.A7 WALL SECTION 9 - BUILDING A
1/2" = 1'-0"



2 A3.A7 WALL SECTION 10 - BUILDING A
1/2" = 1'-0"



3 A3.A7 WALL SECTION 11 - BUILDING A
1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064 TENNESSEE
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN

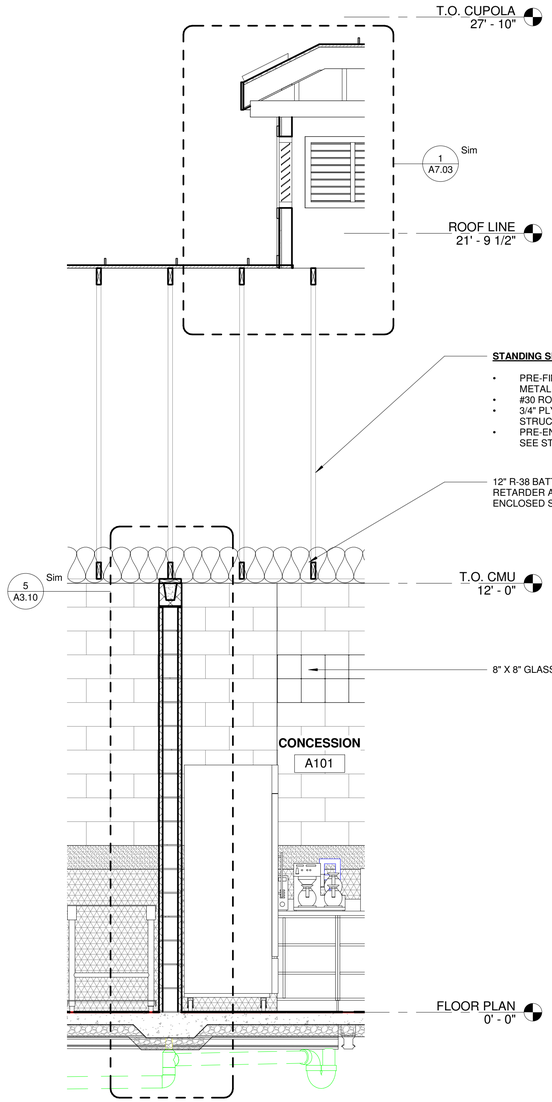
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

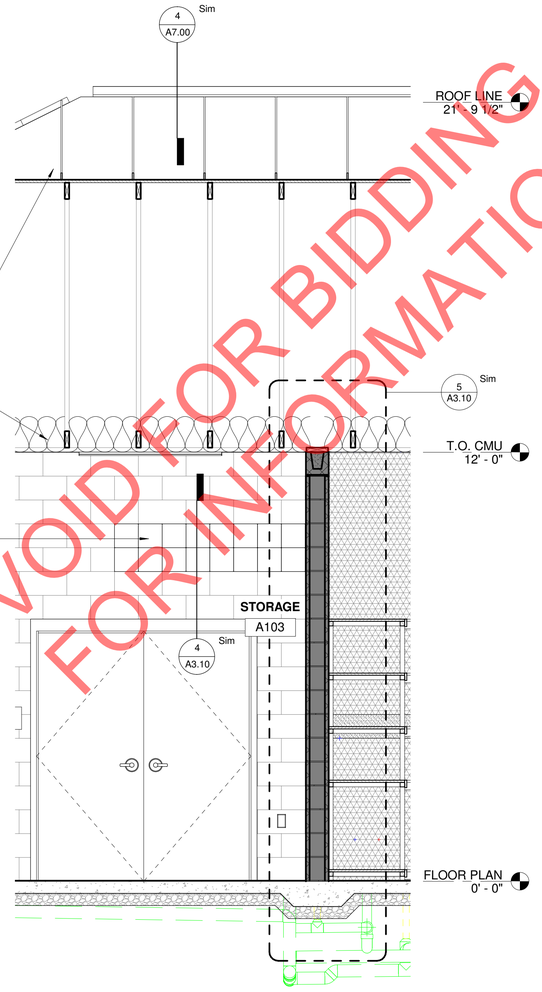
SHEET TITLE
WALL SECTIONS - BUILDINGS A & B

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/2" = 1'-0"
CHECKED BY: SG	

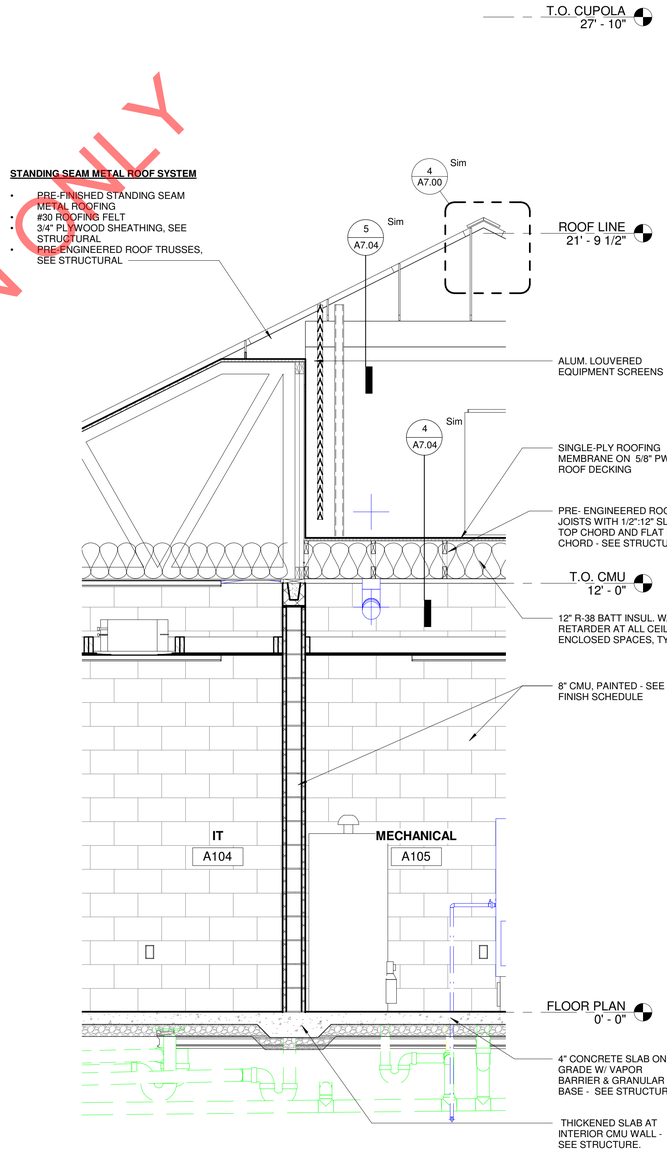
SHEET NO.
A3.A7



1 A3.A8 WALL SECTION 12 - BUILDING A
1/2" = 1'-0"



2 A3.A8 WALL SECTION 13 - BUILDING A
1/2" = 1'-0"



3 A3.A8 WALL SECTION 14 - BUILDING A
1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
WALL SECTIONS - BUILDINGS A & B

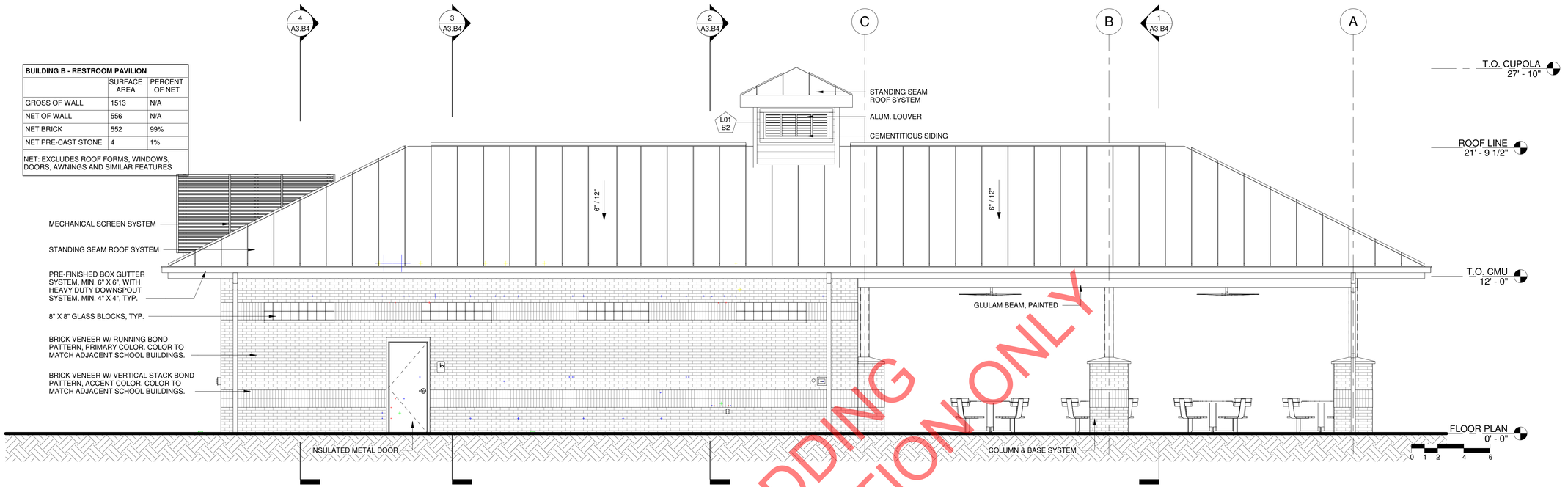
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/2" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A3.A8

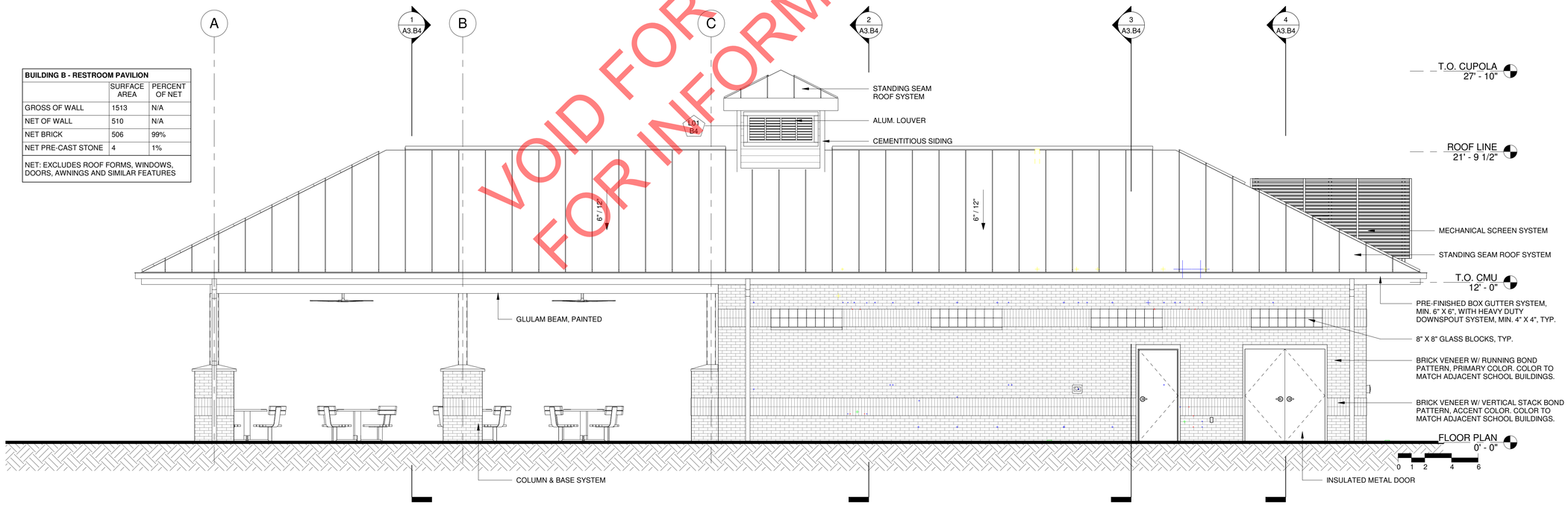
EXTERIOR HVAC UNITS, COOLING AND / OR MECHANICAL UNITS FOR THIS BUILDING ARE LOCATED ON THE:

ROOFTOP

THESE ELEVATIONS HAVE BEEN DESIGN TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE BNS DIRECTOR OR THE PLANNING COMMISSION.



1 A3.B1 NORTH ELEVATION - BUILDING B
1/4" = 1'-0"



2 A3.B1 SOUTH ELEVATION - BUILDING B
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ELEVATIONS - BUILDING B

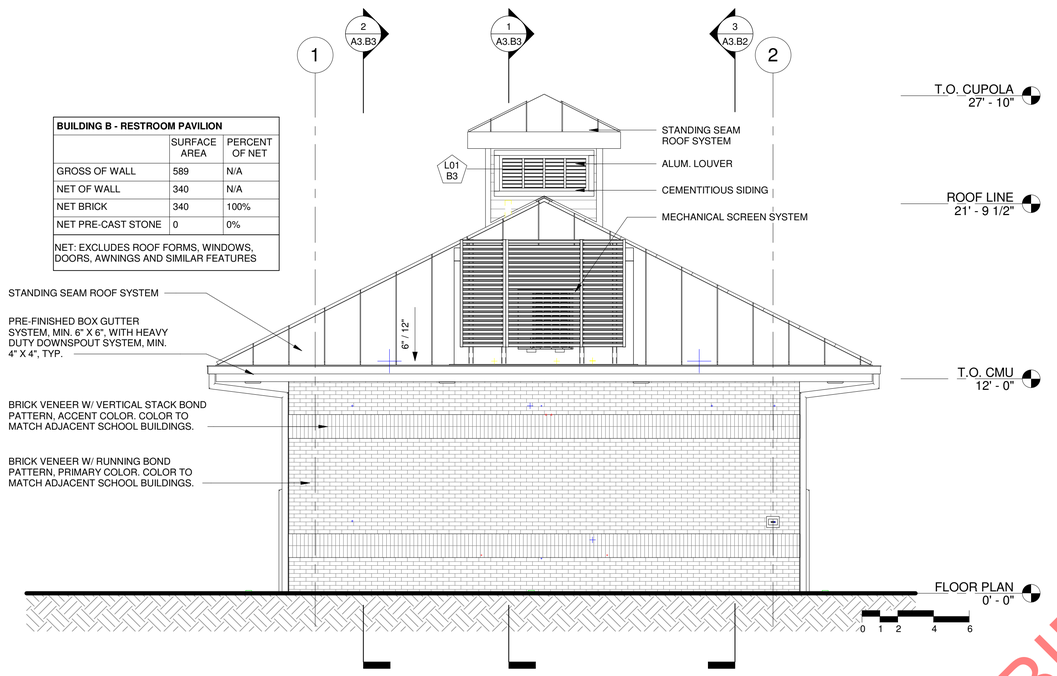
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/4" = 1'-0"
CHECKED BY	
SG	

SHEET NO.
A3.B1

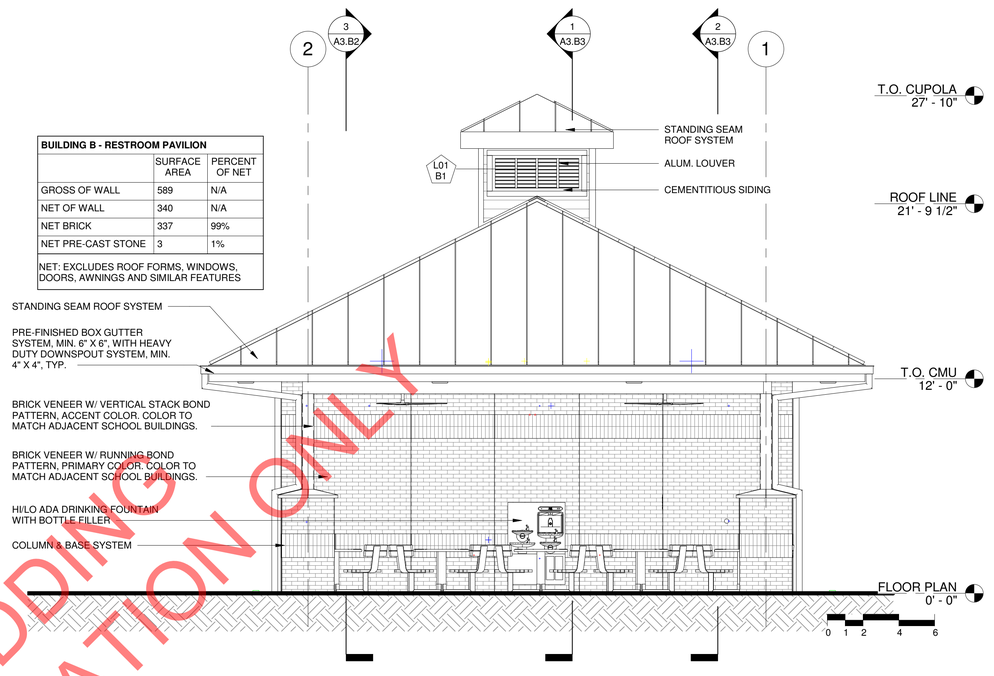
EXTERIOR HVAC UNITS, COOLING AND / OR MECHANICAL UNITS FOR THIS BUILDING ARE LOCATED ON THE:

ROOFTOP

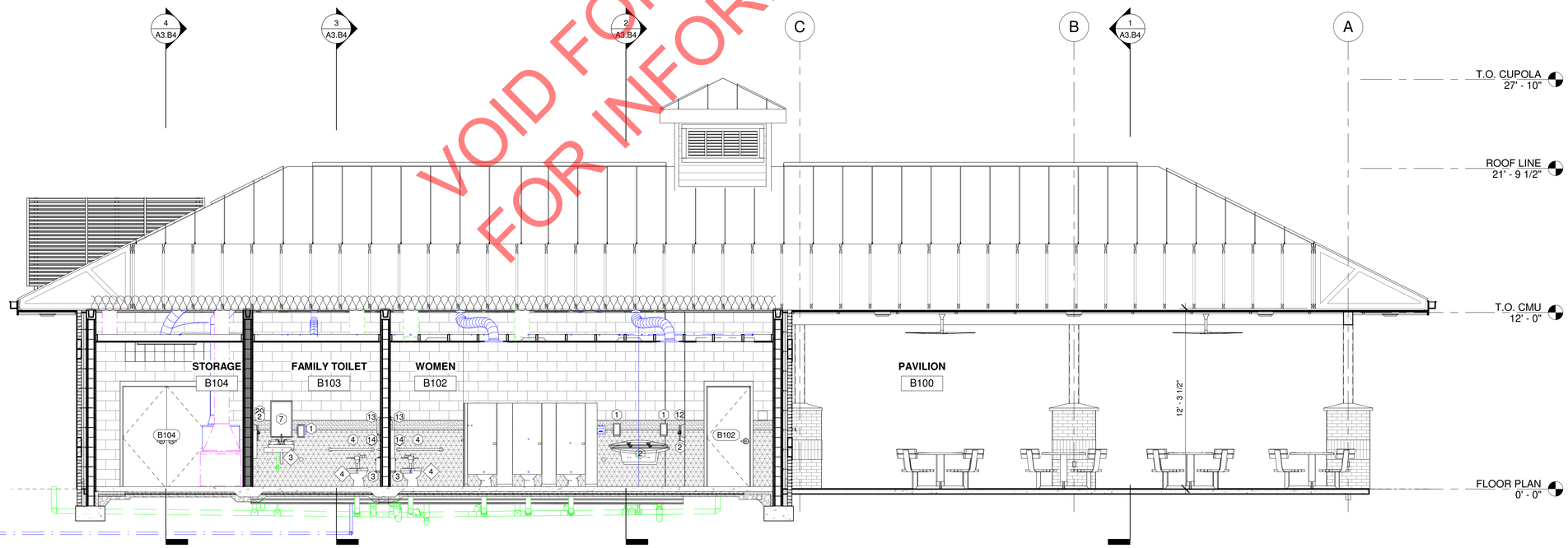
THESE ELEVATIONS HAVE BEEN DESIGN TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE BNS DIRECTOR OR THE PLANNING COMMISSION.



1 A3.B2 EAST ELEVATION - BUILDING B
1/4" = 1'-0"



2 A3.B2 WEST ELEVATION - BUILDING B
1/4" = 1'-0"



3 A3.B2 SECTION 1 - BUILDING B
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

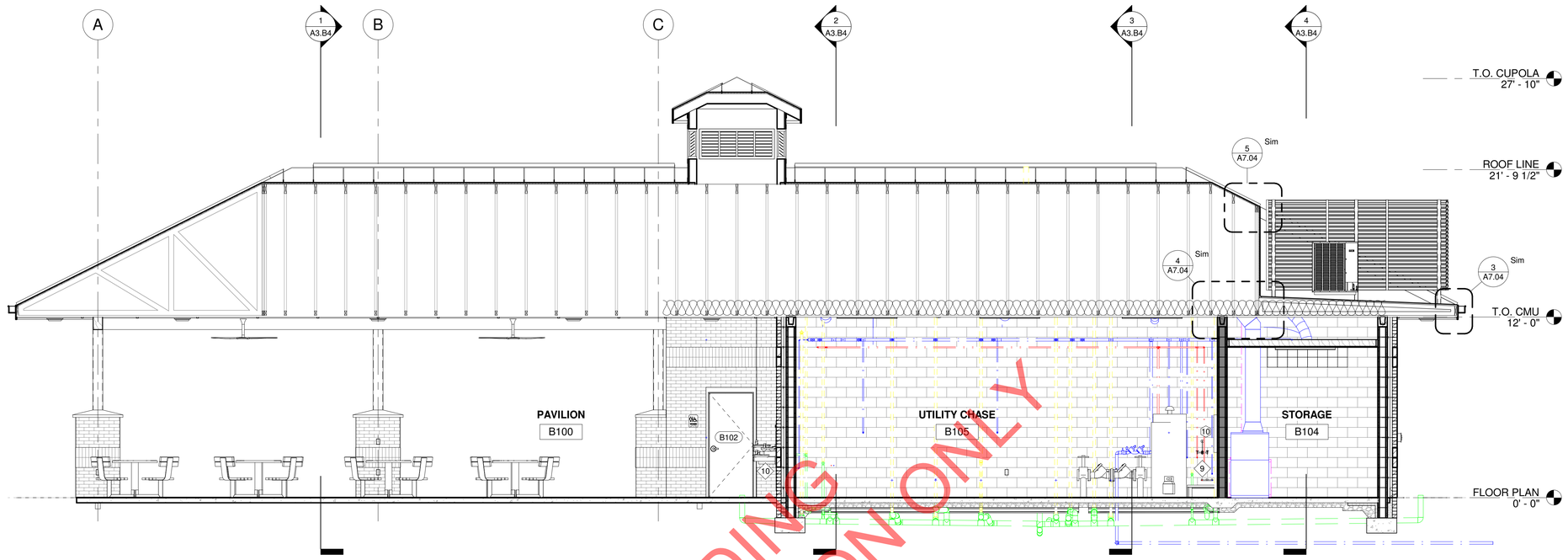
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ELEVATIONS & SECTIONS - BUILDING B

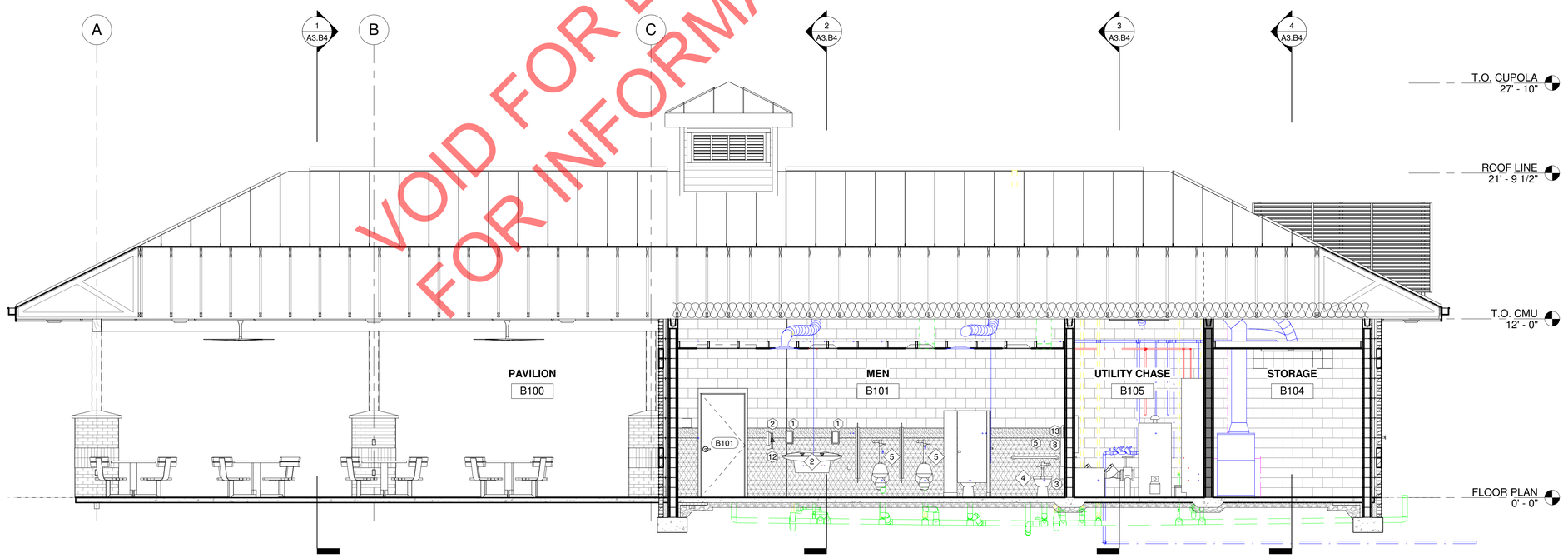
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/4" = 1'-0"
CHECKED BY	
SG	

SHEET NO.
A3.B2



1 A3.B3 SECTION 2 - BUILDING B

1/4" = 1'-0"



2 A3.B3 SECTION 3 - BUILDING B

1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

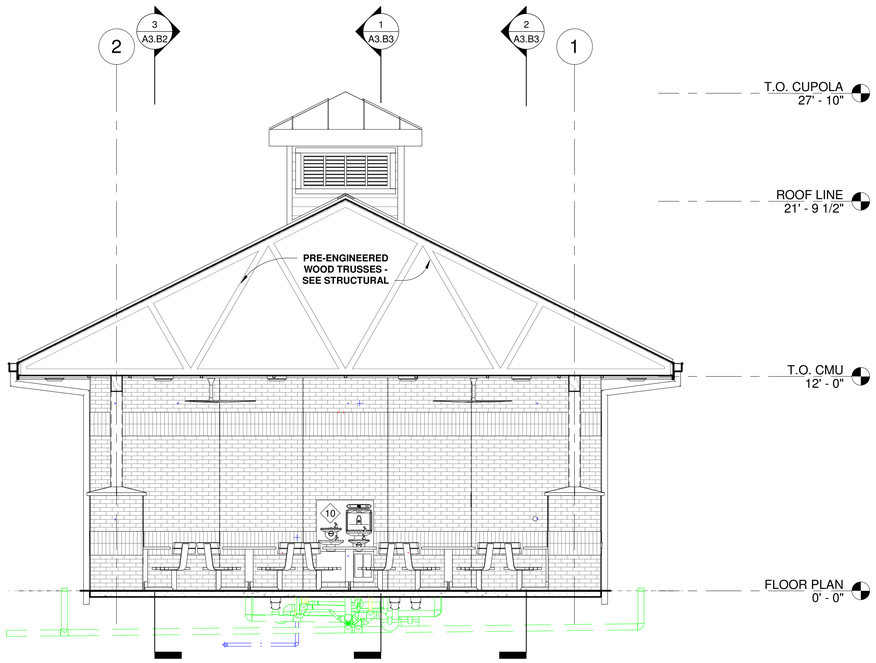
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

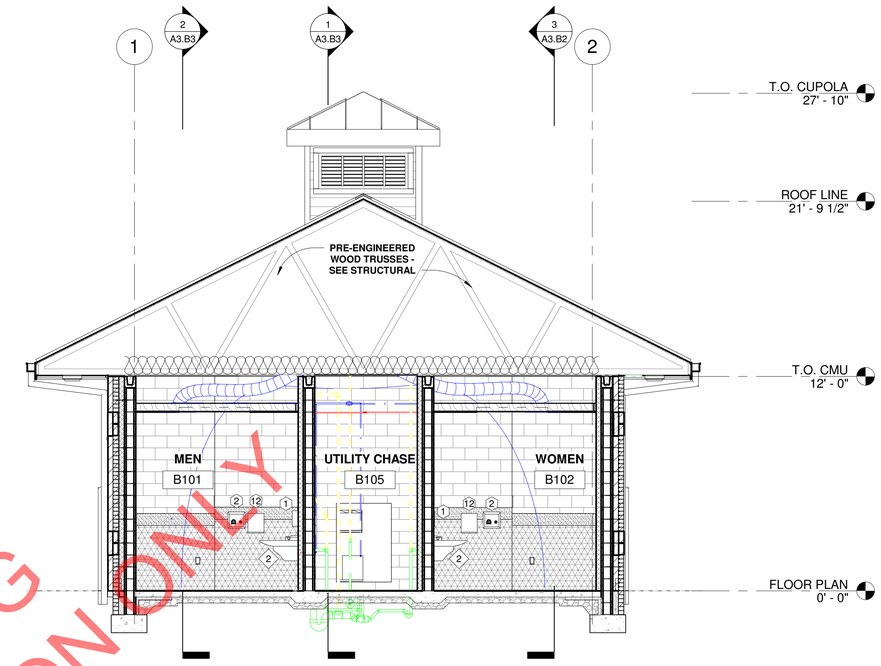
SHEET TITLE
SECTIONS - BUILDING B

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/4" = 1'-0"
CHECKED BY	
SG	

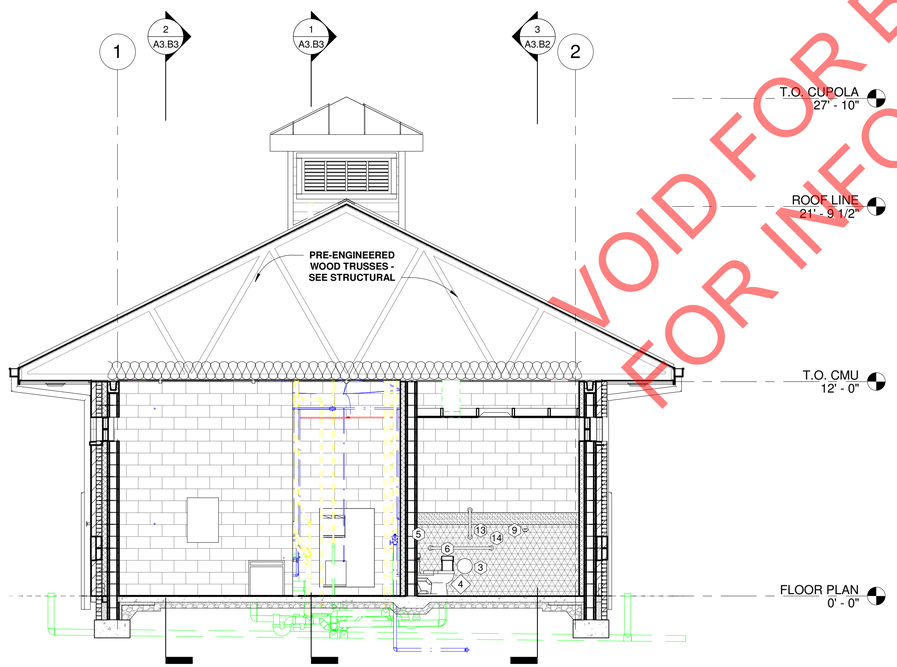
SHEET NO.
A3.B3



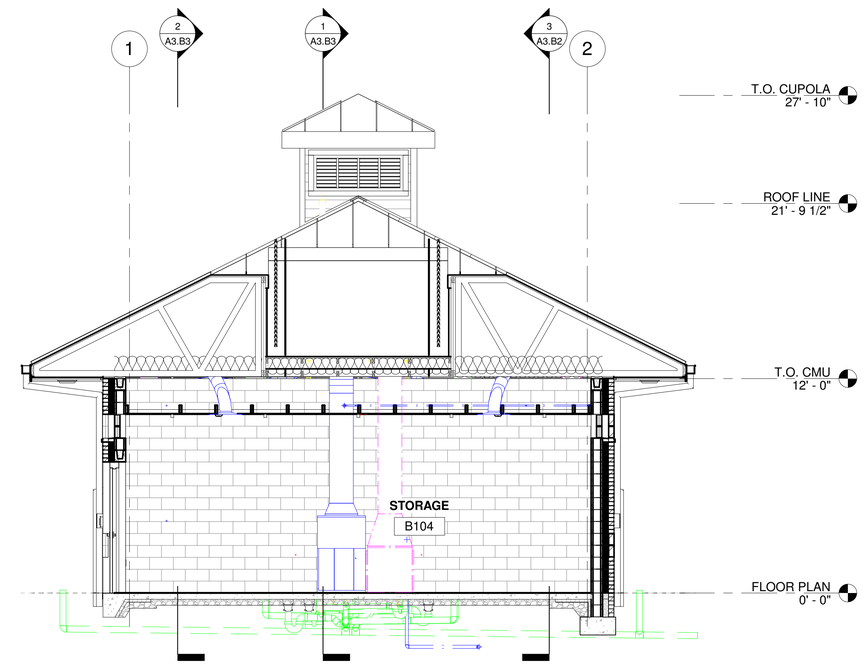
1 A3.B4 SECTION 4 - BUILDING B
1/4" = 1'-0"



2 A3.B4 SECTION 5 - BUILDING B
1/4" = 1'-0"



3 A3.B4 SECTION 6 - BUILDING B
1/4" = 1'-0"



4 A3.B4 SECTION 7 - BUILDING B
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
SECTIONS - BUILDING B

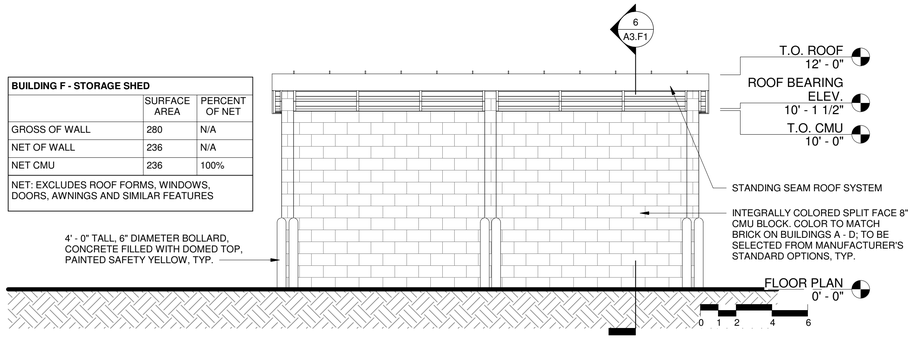
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1/4" = 1'-0"
CHECKED BY: SG	

SHEET NO.
A3.B4

EXTERIOR HVAC UNITS, COOLING AND / OR MECHANICAL UNITS FOR THIS BUILDING ARE LOCATED ON THE:

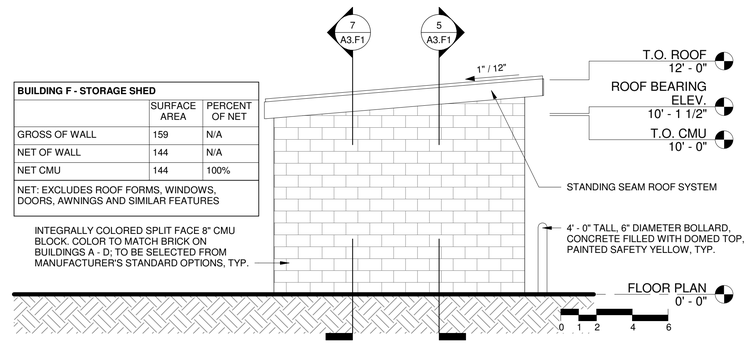
NONE PROVIDED

THESE ELEVATIONS HAVE BEEN DESIGN TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE BNS DIRECTOR OR THE PLANNING COMMISSION.



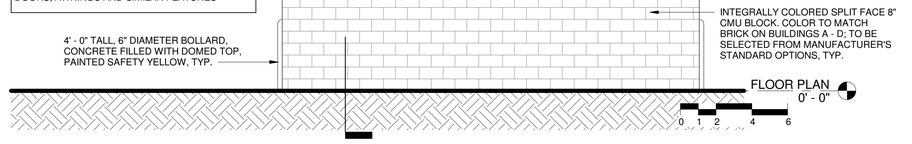
BUILDING F - STORAGE SHED		
	SURFACE AREA	PERCENT OF NET
GROSS OF WALL	280	N/A
NET OF WALL	236	N/A
NET CMU	236	100%
NET: EXCLUDES ROOF FORMS, WINDOWS, DOORS, AWNINGS AND SIMILAR FEATURES		

1 A3.F1 NORTH ELEVATION - BUILDING F
1/4" = 1'-0"



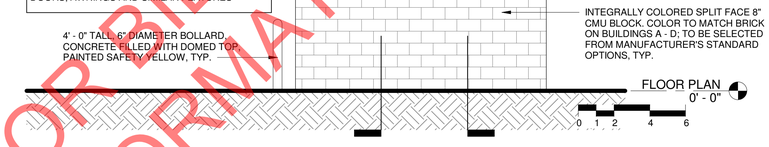
BUILDING F - STORAGE SHED		
	SURFACE AREA	PERCENT OF NET
GROSS OF WALL	159	N/A
NET OF WALL	144	N/A
NET CMU	144	100%
NET: EXCLUDES ROOF FORMS, WINDOWS, DOORS, AWNINGS AND SIMILAR FEATURES		

2 A3.F1 EAST ELEVATION - BUILDING F
1/4" = 1'-0"



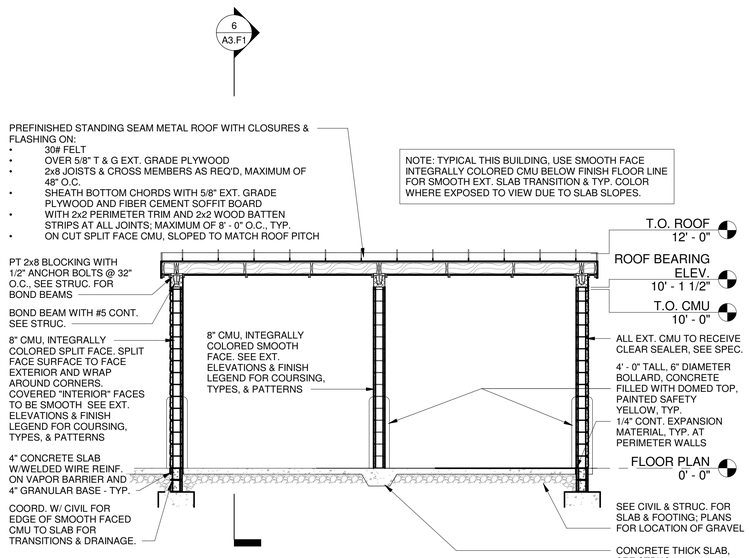
BUILDING F - STORAGE SHED		
	SURFACE AREA	PERCENT OF NET
GROSS OF WALL	280	N/A
NET OF WALL	226	N/A
NET CMU	226	100%
NET: EXCLUDES ROOF FORMS, WINDOWS, DOORS, AWNINGS AND SIMILAR FEATURES		

3 A3.F1 SOUTH ELEVATION - BUILDING F
1/4" = 1'-0"

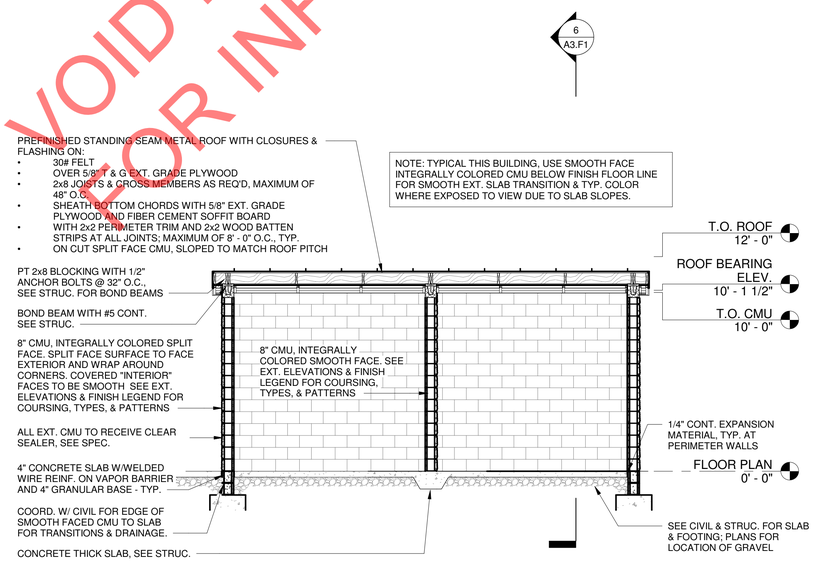


BUILDING F - STORAGE SHED		
	SURFACE AREA	PERCENT OF NET
GROSS OF WALL	159	N/A
NET OF WALL	144	N/A
NET CMU	144	100%
NET: EXCLUDES ROOF FORMS, WINDOWS, DOORS, AWNINGS AND SIMILAR FEATURES		

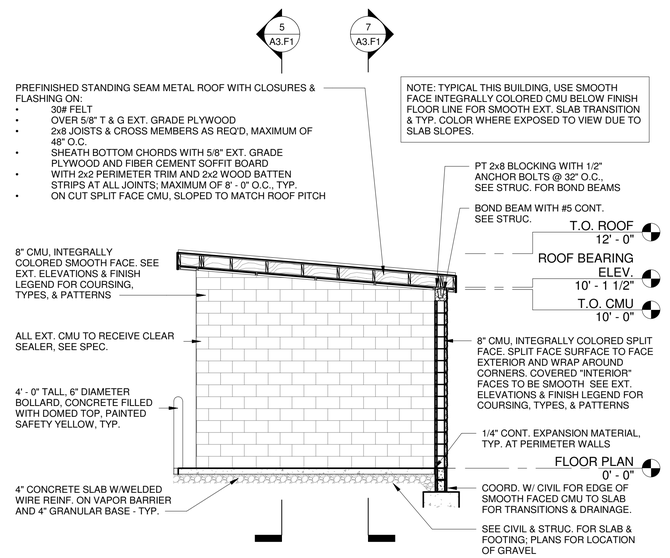
4 A3.F1 WEST ELEVATION - BUILDING F
1/4" = 1'-0"



5 A3.F1 SECTION 1 - BUILDING F
1/4" = 1'-0"



7 A3.F1 SECTION 2 - BUILDING F
1/4" = 1'-0"



6 A3.F1 SECTION 3 - BUILDING F
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
TENNESSEE
No. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

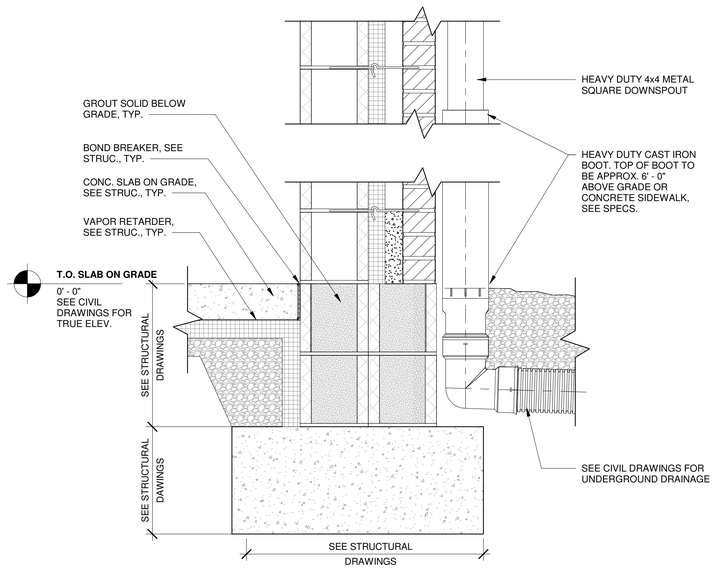
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

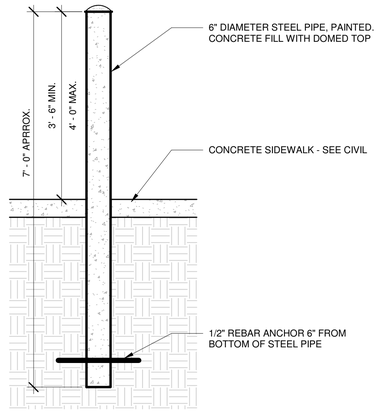
SHEET TITLE
ELEVATIONS & SECTIONS - BUILDING F

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/4" = 1'-0"
CHECKED BY	
SG	

SHEET NO.
A3.F1

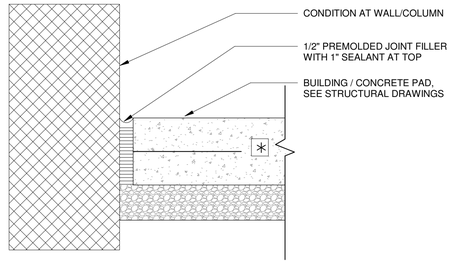


1 A3.00 — FOUNDATION DOWNSPOUT CONNECTION DETAIL
1 1/2" = 1'-0"

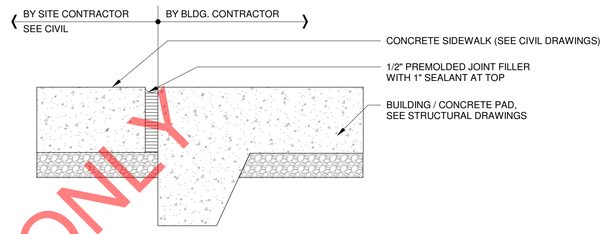


NOTE: CENTER OF BOLLARD TO BE IN LINE WITH FACE OF CMU WALL, TYP. BOLLARD LOCATIONS TO ADJUST BASED ON BUILDING FOOTINGS. COORDINATE FINAL PLACEMENT WITH ARCHITECT PRIOR TO INSTALLATION.

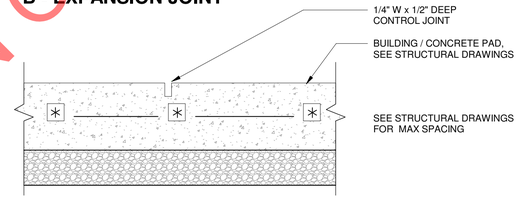
2 A3.00 — BOLLARD DETAIL
3/4" = 1'-0"



A - EXPANSION/ISOLATION JOINT



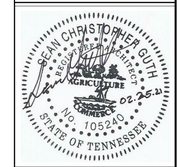
B - EXPANSION JOINT



C - CONTROL JOINT

3 A3.00 — JOINT DETAILS - TYPICAL
N.T.S.

LOSE DESIGN
SPACES FOR LIFE.



FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

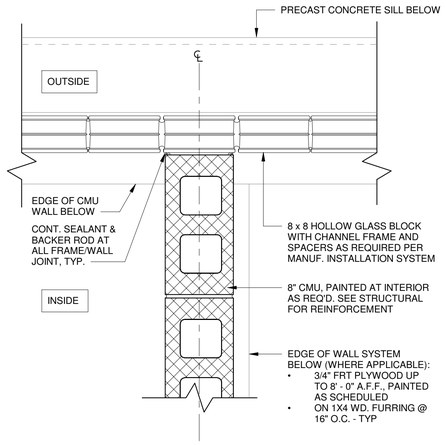
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

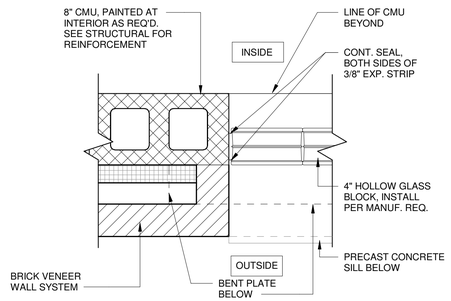
SHEET TITLE
DETAILS - SITE & FOUNDATION

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

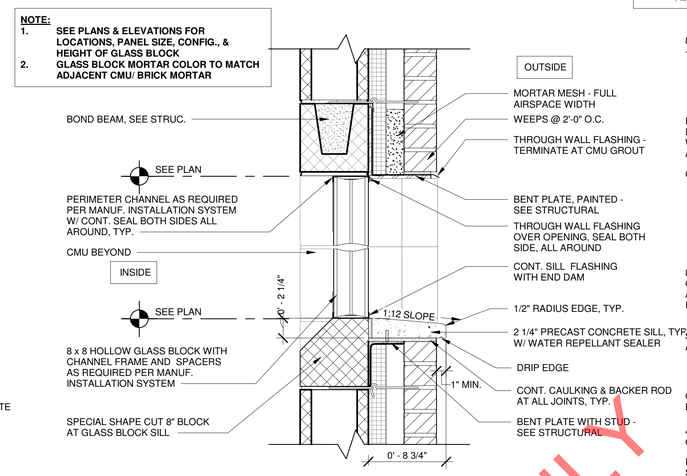
SHEET NO.
A3.00



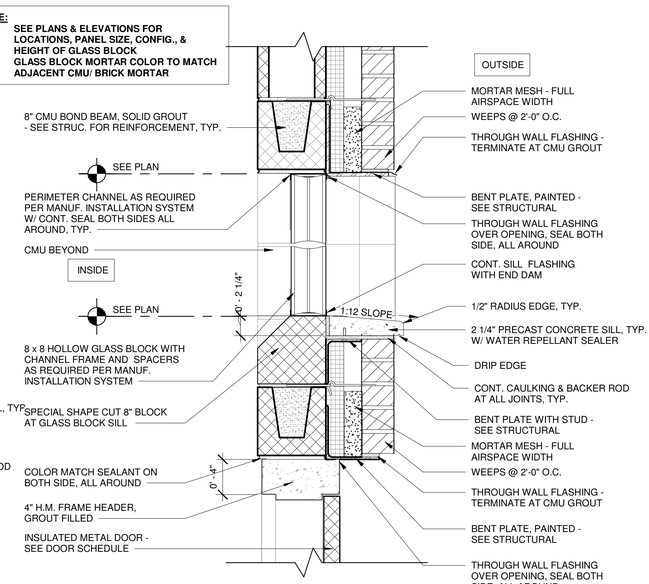
1 A3.10 PLAN DETAIL-GLASS BLOCK AT PERPENDICULAR CMU WALL
1 1/2" = 1'-0"



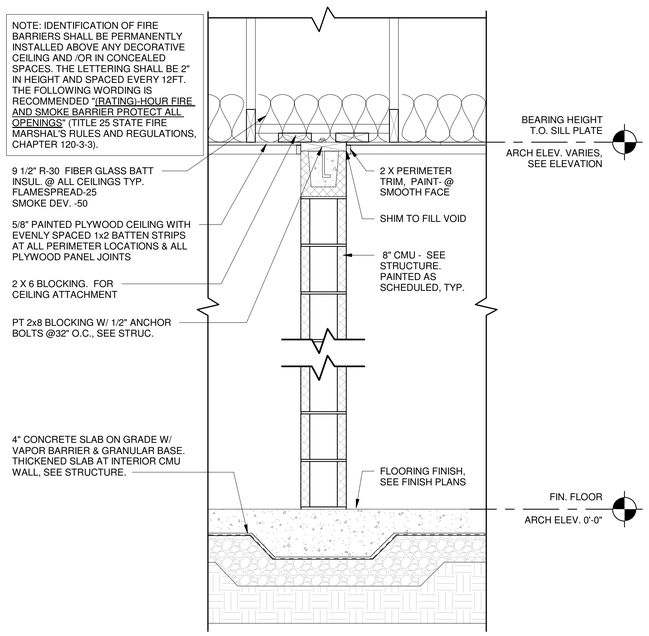
2 A3.10 PLAN DETAIL - GLASS BLOCK JAMB
1 1/2" = 1'-0"



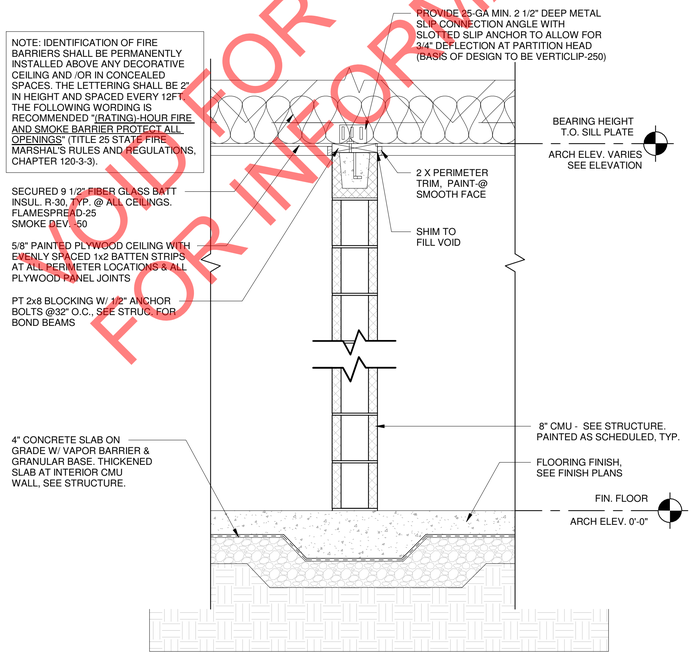
3 A3.10 SECTION - GLASS BLOCK AT EXT. WALL
1 1/2" = 1'-0"



4 A3.10 SECTION - GLASS BLOCK AT EXT. WALL
1 1/2" = 1'-0"



5 A3.10 TYP. INTERIOR WALL SECTION - PARTITION PARALLEL TO TRUSS
1" = 1'-0"



6 A3.10 TYP. INTERIOR WALL SECTION - PARTITION PERPENDICULAR TO TRUSS
1" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
ARCHITECTURE
NO. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
DETAILS - PLAN AND WALL DETAILS

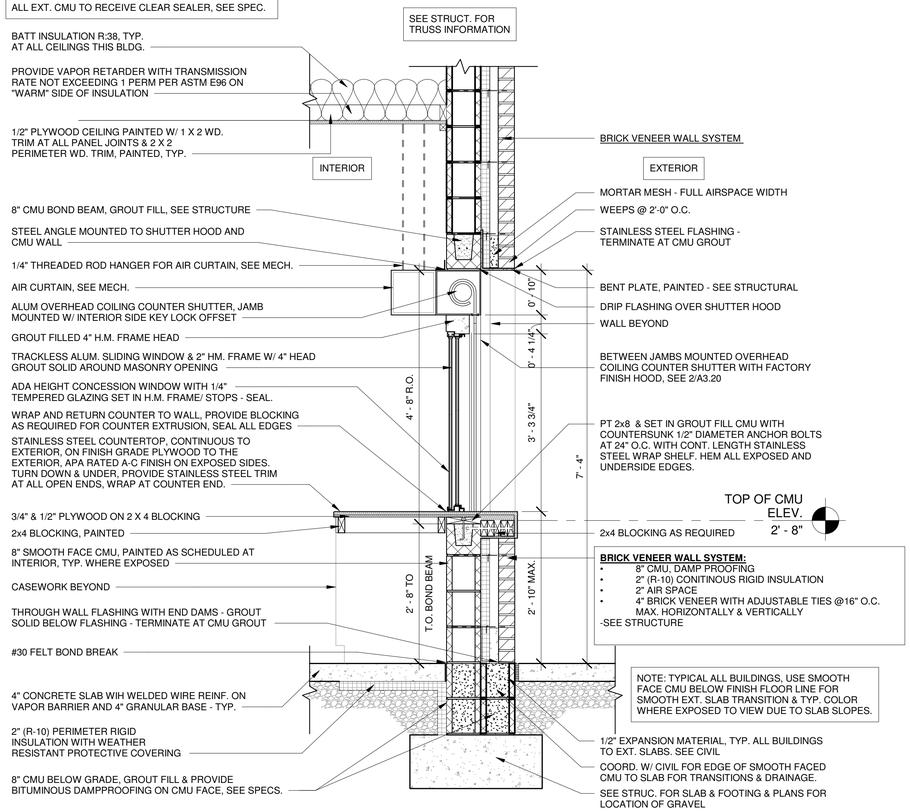
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: As indicated
CHECKED BY: SG	

SHEET NO.
A3.10

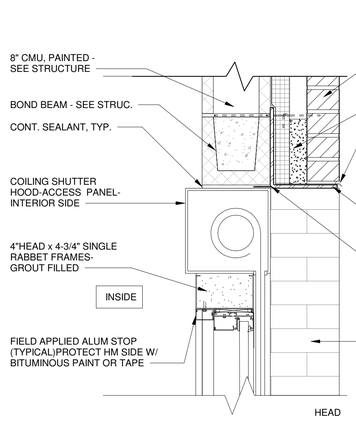
FIBERGLASS BATT. INSULATION
FLAMESPREAD RATING - 15
SMOKE DEVELOPMENT RATING - 0

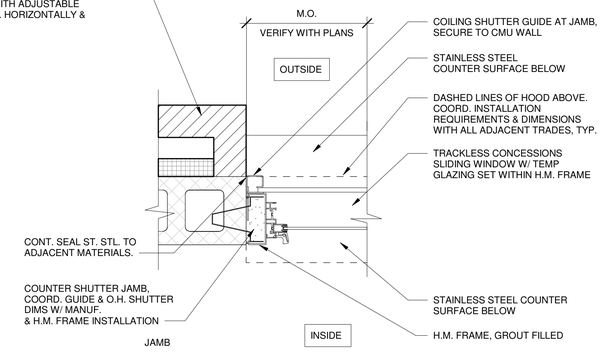
INSUL. FOAM FILL ALL EXT. CMU WALLS FLAMESPREAD RATING - 0
SMOKE DEVELOPMENT RATING - 5

ALL EXT. CMU TO RECEIVE CLEAR SEALER, SEE SPEC.



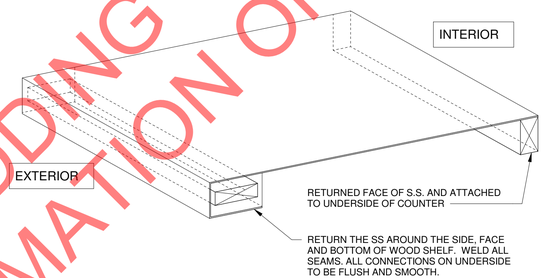
1 A3.20 WALL SECTION AT CONCESSION WINDOW
3/4" = 1'-0"



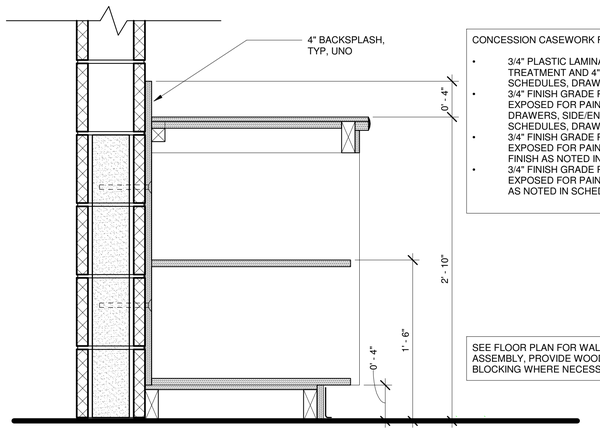


COORD. CMU AND PRECAST JAMBS DIMS. AND CONSTRUCTION W/ PLANS, DETAILS, & ELEVATIONS, TYP.

2 A3.20 SECTION AT TYP. CONCESSION WINDOW/ COILING COUNTER SHELTER-HEAD/JAMB
1 1/2" = 1'-0"



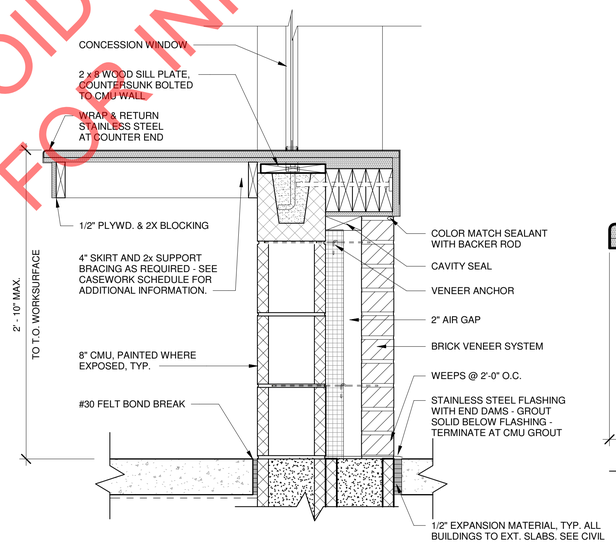
3 A3.20 DETAIL AT CONCESSION STAND COUNTER
1 1/2" = 1'-0"



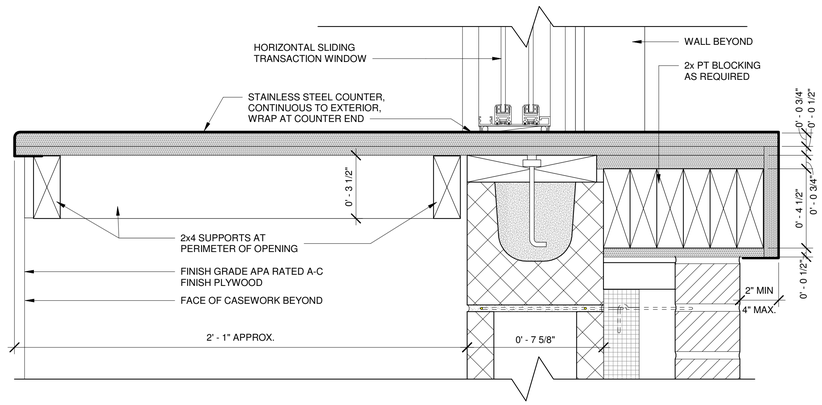
CONCESSION CASEWORK FINISHES:
- 3/4" PLASTIC LAMINATE COUNTERTOP WITH 1 1/2" EDGE TREATMENT AND 4" BACKSPLASH, COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.
- 3/4" FINISH GRADE PLYWOOD APA RATED A-C EXT WITH "A" FACE EXPOSED FOR PAINTING FOR BASE CABINETS (DOORS, DRAWERS, SIDE/END PANELS). COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.
- 3/4" FINISH GRADE PLYWOOD APA RATED A-C EXT WITH "A" FACE EXPOSED FOR PAINTING FOR SUPPORT BRACKETS, COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.
- 3/4" FINISH GRADE PLYWOOD APA RATED A-C EXT WITH "A" FACE EXPOSED FOR PAINTING FOR UPPER CABINETS, COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.

SEE FLOOR PLAN FOR WALL ASSEMBLY, PROVIDE WOOD BLOCKING WHERE NECESSARY

4 A3.20 CONCESSION CASEWORK DETAIL
1 1/2" = 1'-0"



5 A3.20 DETAIL AT CONCESSION WINDOW-CMU WALL
1 1/2" = 1'-0"



6 A3.20 CONCESSION COUNTER DETAIL
3" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
TENNESSEE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

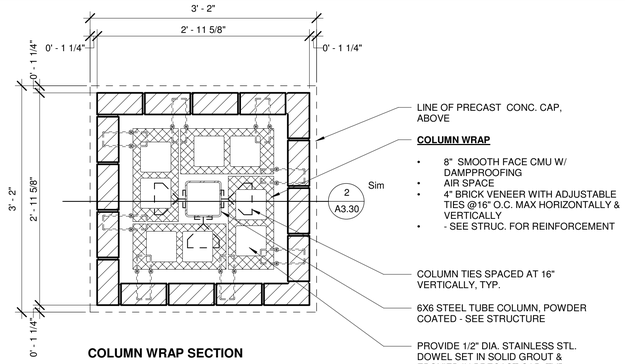
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

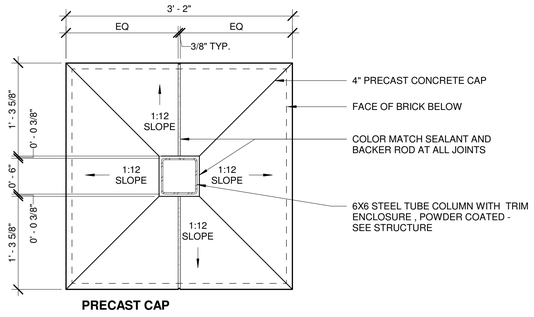
SHEET TITLE
DETAILS - CONCESSION WINDOW

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	As indicated
CHECKED BY	
SG	

SHEET NO.
A3.20



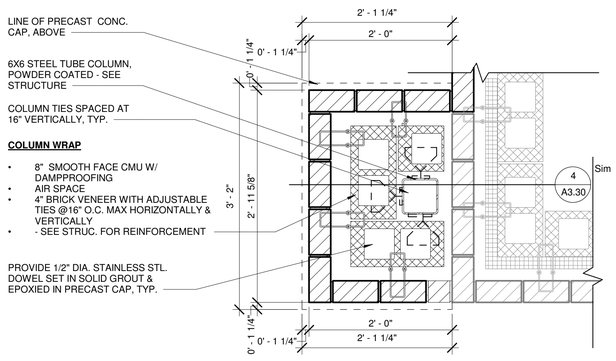
COLUMN WRAP SECTION



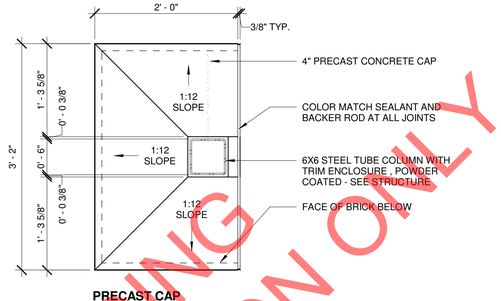
PRECAST CAP

1 A3.30 COLUMN WRAP DETAIL

1" = 1'-0"



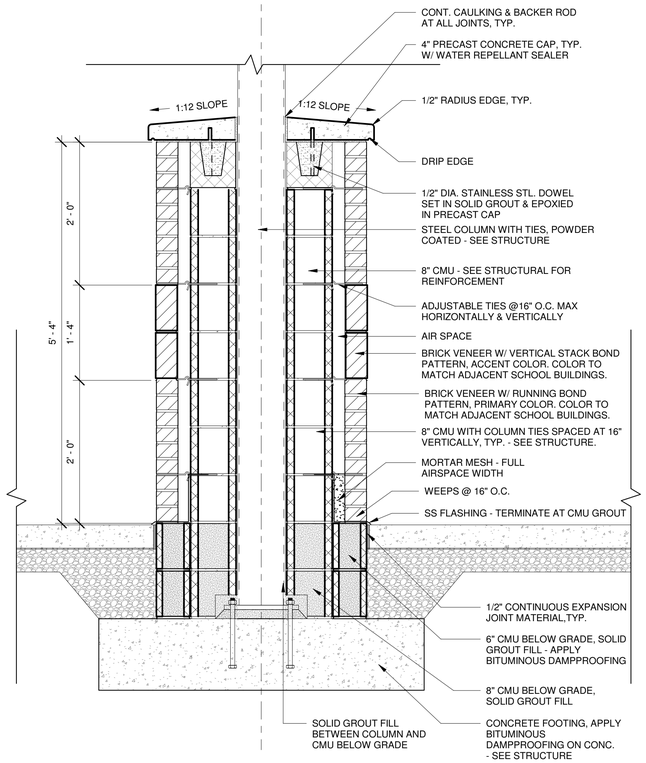
COLUMN WRAP SECTION



PRECAST CAP

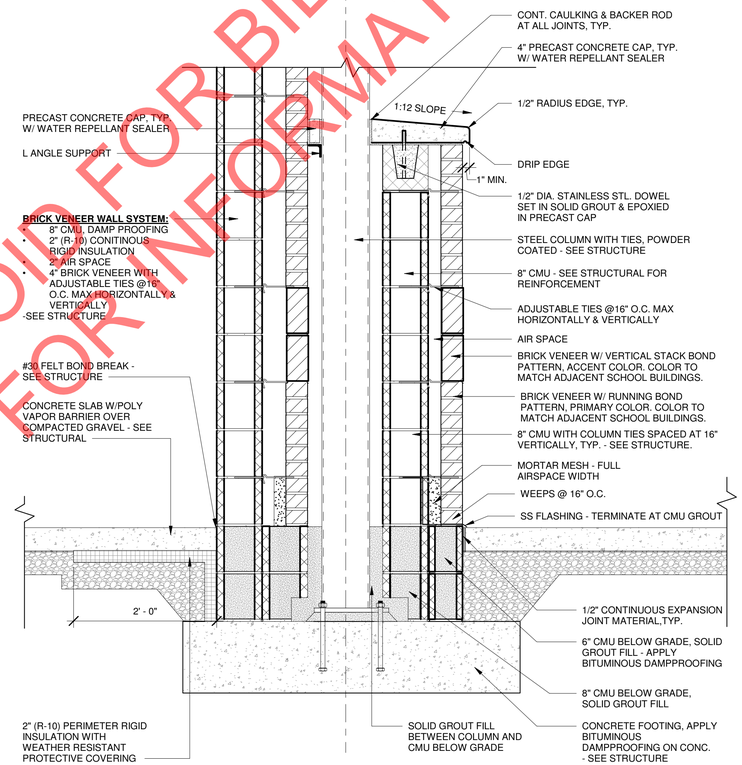
3 A3.30 PILASTER WRAP DETAIL

1" = 1'-0"



2 A3.30 COLUMN WRAP SECTION

1" = 1'-0"



4 A3.30 PILASTER WRAP SECTION

1" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
ARCHITECTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS

C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064

PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

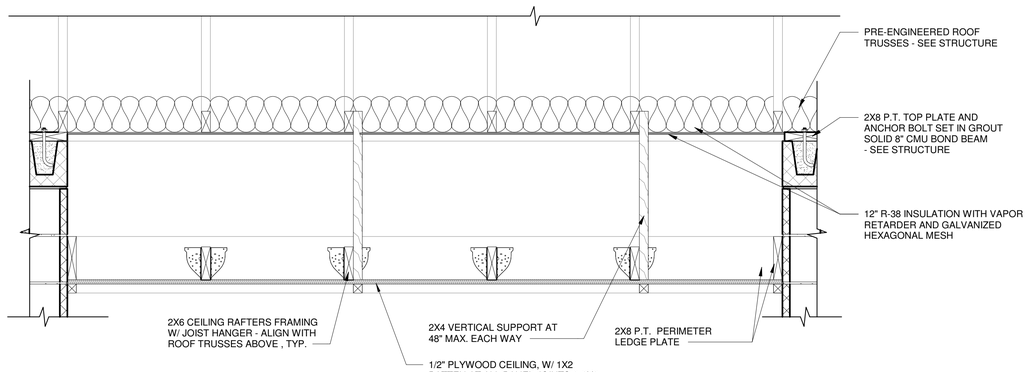
SHEET TITLE

DETAILS - COLUMN WRAP

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1" = 1'-0"
CHECKED BY: SG	

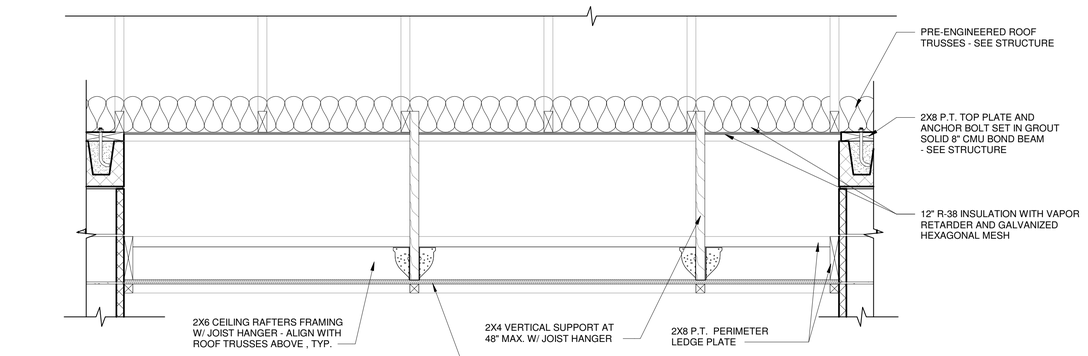
SHEET NO.

A3.30



1 A3.60 — TYP. FRAMING AT CEILING

1" = 1'-0"



2 A3.60 — TYP. FRAMING AT ATTIC ACCESS - PLAN

1" = 1'-0"

3 A3.60 — TYP. FRAMING AT ATTIC ACCESS - SECTION

1 1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
No. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
DETAILS - CEILING DETAILS

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A3.60

REFLECTED CEILING LEGEND

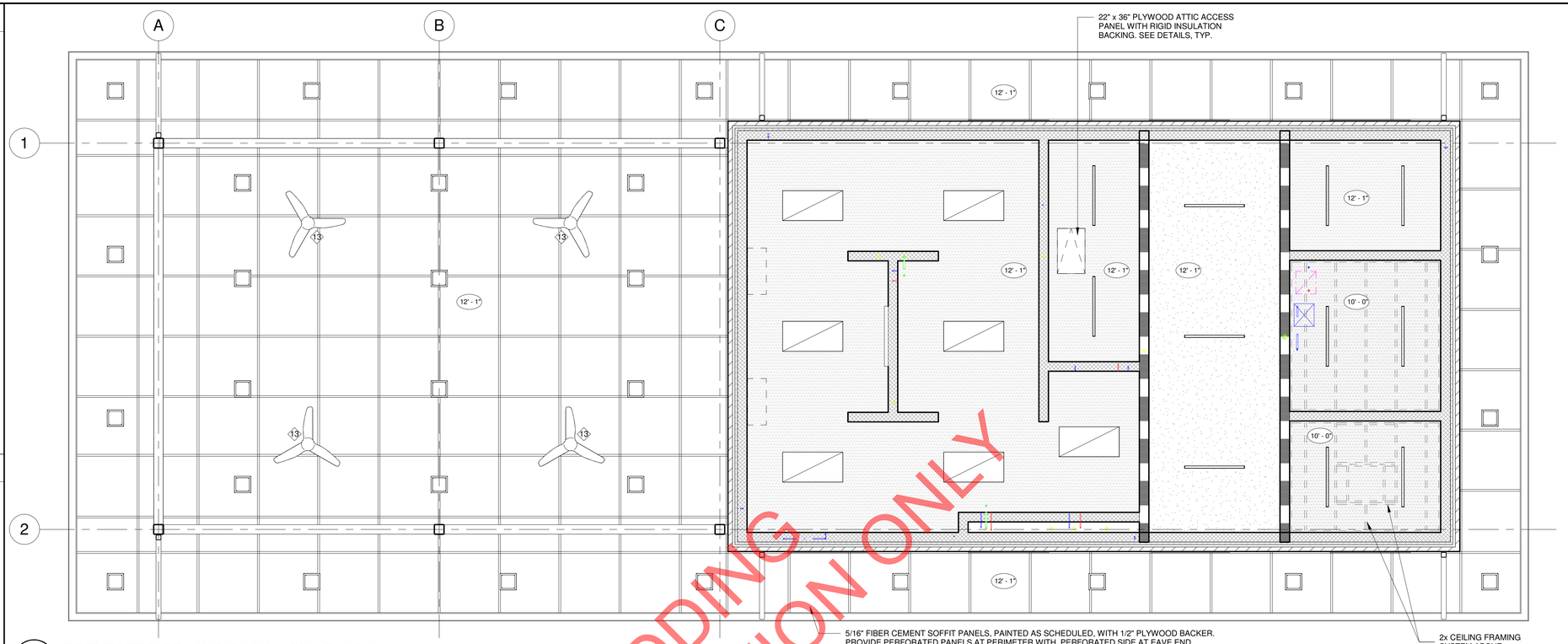
○	SURFACE MOUNTED DOWNLIGHT
▭	2' x 2' LIGHT; RECESS UNITS AT A.C.T., TYP.
▭	2' x 4' LIGHT; RECESS UNITS AT A.C.T., TYP.
▬	8' LINEAR LIGHT
▨	RECESSED 2' x 2' SUPPLY GRILLE
▨	RECESSED 2' x 2' RETURN GRILLE
M	MOTION SENSOR
	WALL PACK
SD	SMOKE DETECTOR
	DATA OUTLET
	1/2" GYP. BD., PAINTED AS SCHEDULED
	1/2" FINISH GRADE PLYWOOD, PAINTED AS SCHEDULED
	CEILING FAN
K	ACCESS HATCH

REFLECTED CEILING NOTES

1. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, FLOORS, AND ROOFS.
2. 22" x 36" REMOVABLE PLYWOOD CEILING PANEL FOR ATTIC ACCESS PROVIDED AS INDICATED. CONTINUE INSULATION OVER REMOVABLE PANEL.
3. OVERSIZED 36" x 48" METAL INSULATED LOCKABLE PULL-DOWN ATTIC ACCESS HATCH AS INDICATED. SEE SPECS.
4. 1/2" PLYWOOD CEILING. FASTEN TO UNDERSIDE OF ROOF TRUSS. PROVIDE 2x2 WOOD PERIMETER TRIM, PAINTED TO MATCH CEILING. PROVIDE 1x2 BATTEN TRIM SPACED EVENLY AT 4' - 0" MAX. AND AT ALL JOINTS, PAINTED TO MATCH CEILING, TYP.
5. FOR PERFORATED SOFFIT VENT LOCATIONS AS INDICATED ON PLANS. PROVIDE 1/2" PLYWOOD, FASTENED TO UNDERSIDE OF ROOF TRUSS, WITH CONTINUOUS 3" GAP NEAR EXTERIOR EDGE (AT PERFORATIONS). STAPLE INSECT SCREEN ACROSS OPENING IN PLYWOOD. COORDINATE OPENING WITH 1/4" CONTINUOUS VENTED CEMENTITIOUS SOFFIT PANEL, AFFIXED TO PLYWOOD. PROVIDE 1x2 BATTEN TRIM SPACED EVENLY AT 4' - 0" MAX. & AT ALL JOINTS. PROVIDE 2x2 BATTEN TRIM AT ALL PERIMETER LOCATIONS. ALL TRIM COLOR TO MATCH SOFFIT, TYP.
6. ALL FLASHINGS AND COUNTERFLASHINGS SHALL HAVE FACTORY FINISH TO MATCH ROOFING. FIELD REPAIR FINISH AS REQUIRED.
7. ALL ATTIC LOUVERS FACTORY FINISHED TO MATCH CEMENTITIOUS SIDING COLOR.
8. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL CEILING PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
9. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL EXTERIOR SOFFIT AND CUPOLA PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
10. PROVIDE 60" DIAMETER LOW PROFILE SOFFIT MOUNTED CEILING FAN. FINISH TO BE SELECTED FROM MANUFACTURER'S STANDARD OPTIONS. B.O.D. - BIG ASS FANS - 60" HAIKU OUTDOOR.
11. MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHOWN FOR REFERENCE. REFER TO DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.

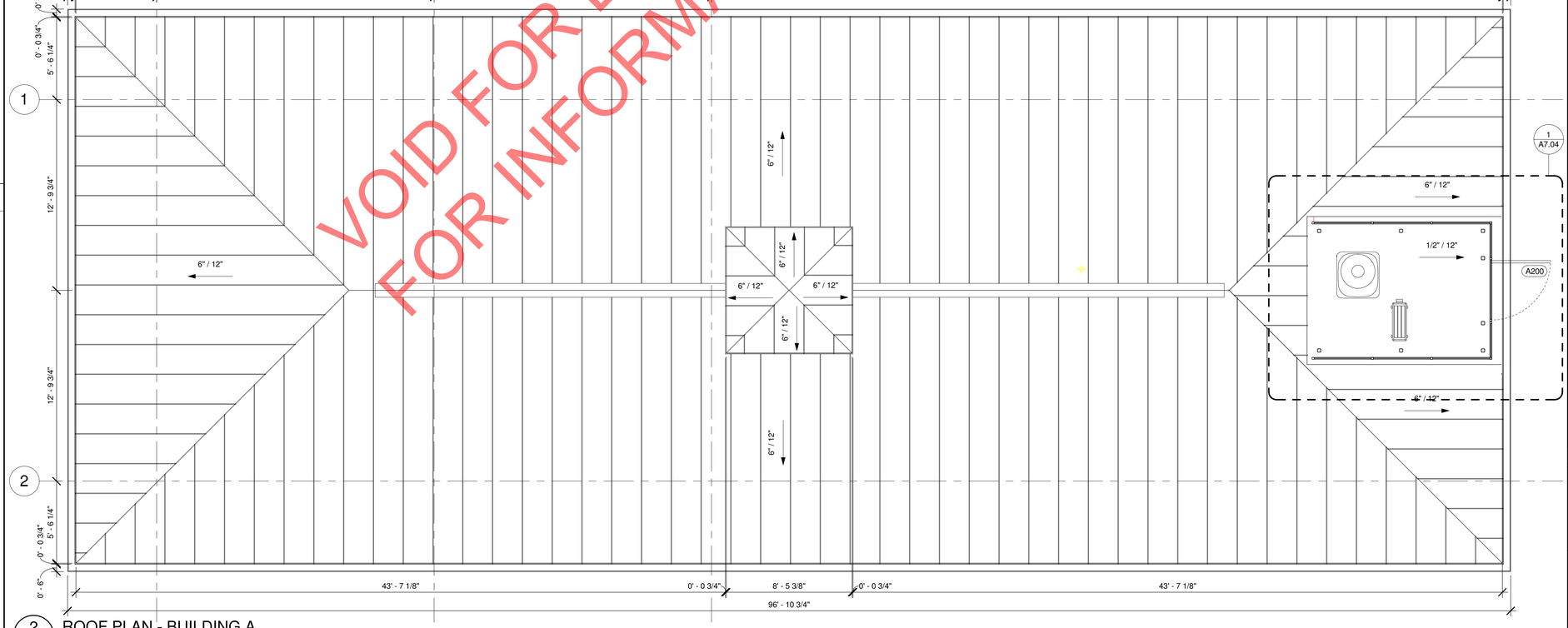
ROOF PLAN NOTES

1. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, FLOORS, AND ROOFS.
2. ALL EXPOSED STEEL TO BE POWDER COATED. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLOR OPTIONS.
3. CAULK ALL LOUVER & WINDOW FRAMES AT THE JOINT BETWEEN THE FRAME & THE ADJACENT SUBSTRATE.
4. ALL ATTIC LOUVERS FACTORY FINISHED TO MATCH CEMENTITIOUS SIDING COLOR.
5. SEE MECHANICAL & PLUMBING DRAWINGS FOR ALL FACTORY PRIMED, FINISHED WATERTIGHT ROOF PENETRATIONS, PAINTED TO MATCH ROOF.
6. ALL FLASHINGS AND COUNTERFLASHINGS SHALL HAVE FACTORY FINISH TO MATCH ROOFING. FIELD REPAIR FINISH AS REQUIRED.
7. ALL GUTTERS & DOWNSPOUTS TO BE HEAVY DUTY, FACTORY FINISHED, COLOR TO MATCH FASCIA / TRIM. DOWNSPOUTS ARE TO "FOLLOW" THE CONTOUR OF VERTICAL BUILDING ELEMENTS AND ARE TO BE NO MORE THAN 3" FROM ADJACENT MATERIAL FACE AT ANY TIME. PROVIDE INTEGRAL DS GUARDS. SEE CIVIL FOR UNDERGROUND STORM CONNECTIONS, TYP.
8. SEE INDIVIDUAL ROOF PLANS FOR VARIOUS ROOF SLOPES, GUTTER / DS RPOFILES. PROVIDE MIN. 4x4 SQUARE GUTTERS WITH MIN. 6x6 BOX GUTTERS. SEE SPECS.
9. PROVIDE EXP. JOINT CONNECTIONS AT ALL 90 DEG. CORNER TRANSITIONS OF GUTTERS.
10. SLOPE GUTTER 1/16"/12" TO DS, TYP.
11. SEE ROOF DETAILS FOR RIDGE VENT INFORMATION.
12. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL EXTERIOR SOFFIT AND CUPOLA PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
13. MECHANICAL SCREEN LOUVER SYSTEM TO BE _____
14. MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHOWN FOR REFERENCE. REFER TO DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
15. SEE STRUCTURE FOR TRUSS INFORMATION.



1 A6.A1 REFLECTED CEILING PLAN - BUILDING A

1/4" = 1'-0"



2 A6.A1 ROOF PLAN - BUILDING A

1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
RCP & ROOF PLAN - BUILDING A

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A6.A1

REFLECTED CEILING LEGEND

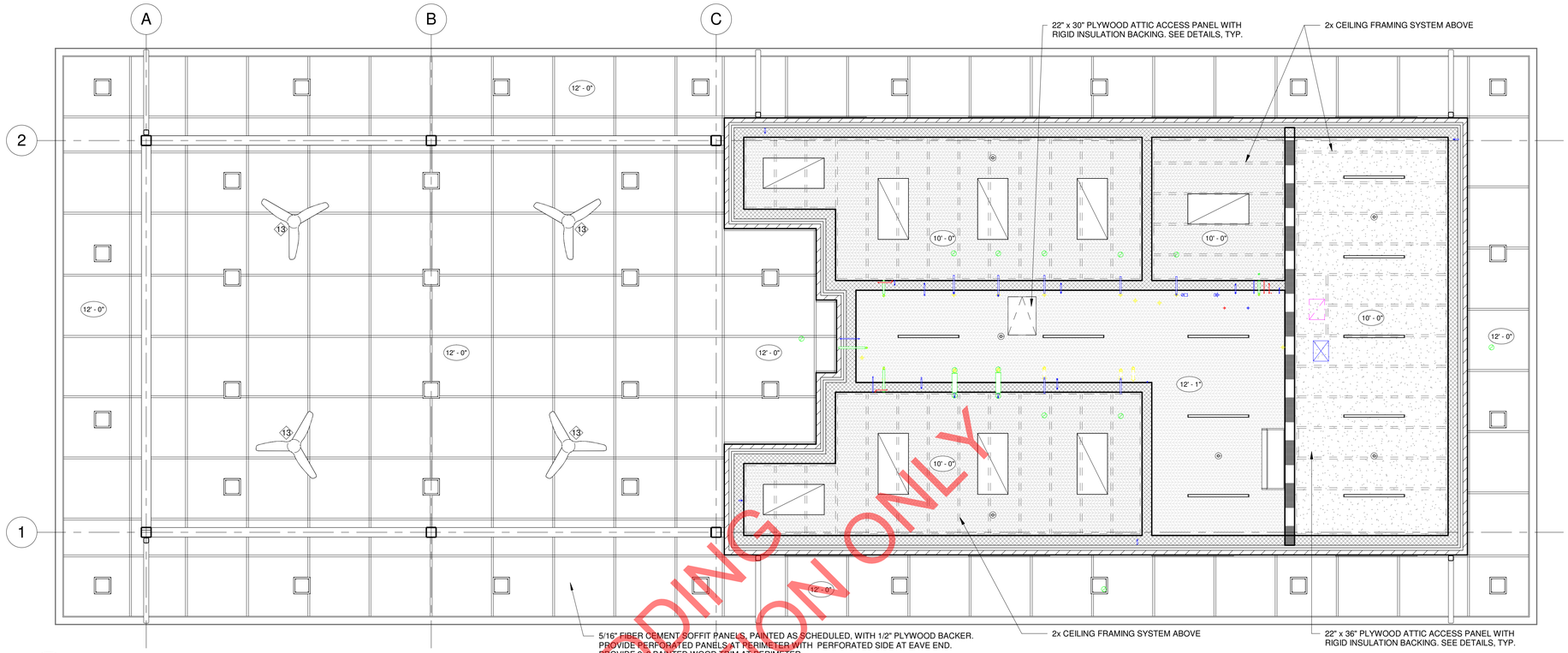
○	SURFACE MOUNTED DOWNLIGHT
▭	2' x 2' LIGHT; RECESS UNITS AT A.C.T., TYP.
▭	2' x 4' LIGHT; RECESS UNITS AT A.C.T., TYP.
▬	8' LINEAR LIGHT
▭	RECESSED 2' x 2' SUPPLY GRILLE
▭	RECESSED 2' x 2' RETURN GRILLE
M	MOTION SENSOR
○	WALL PACK
SD	SMOKE DETECTOR
△	DATA OUTLET
	1/2" GYP. BD., PAINTED AS SCHEDULED
	1/2" FINISH GRADE PLYWOOD, PAINTED AS SCHEDULED
	CEILING FAN
K	ACCESS HATCH

REFLECTED CEILING NOTES

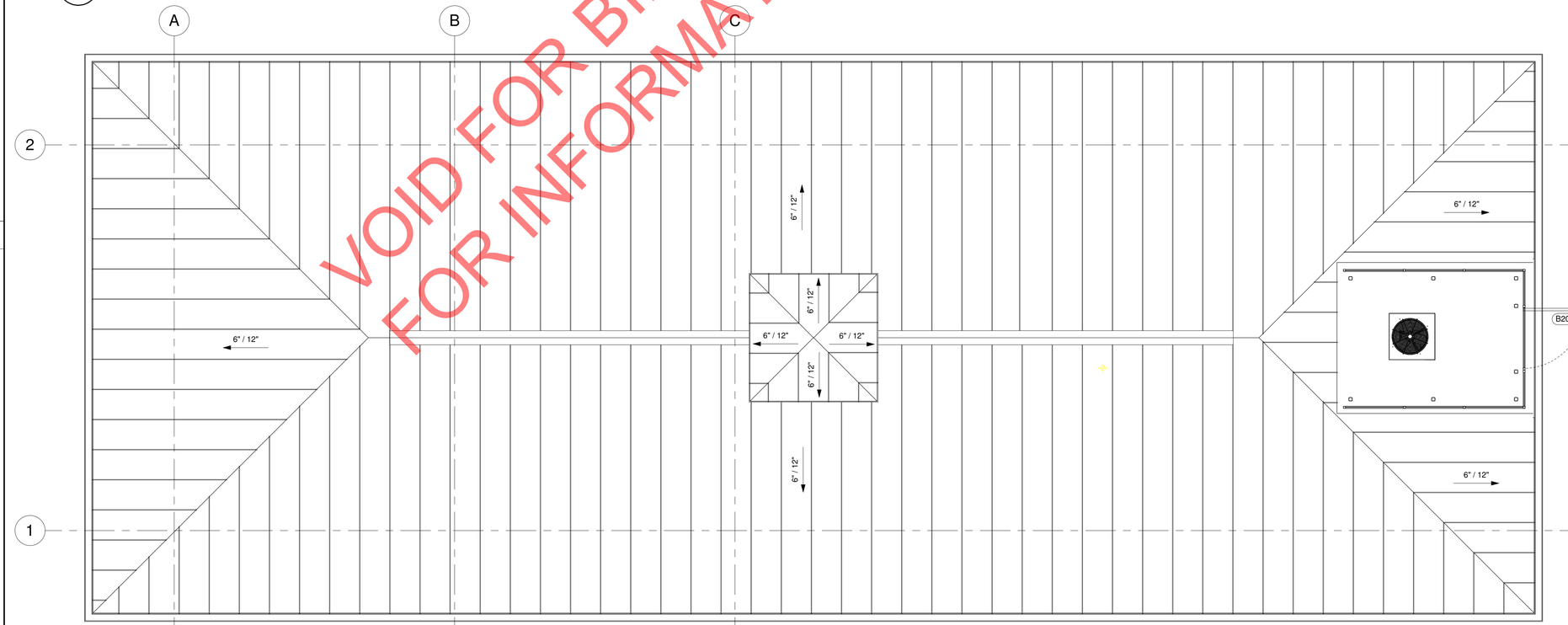
1. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, FLOORS, AND ROOFS.
2. 22" x 36" REMOVABLE PLYWOOD CEILING PANEL FOR ATTIC ACCESS PROVIDED AS INDICATED. CONTINUE INSULATION OVER REMOVABLE PANEL.
3. OVERSIZED 36" x 48" METAL INSULATED LOCKABLE PULL-DOWN ATTIC ACCESS HATCH AS INDICATED. SEE SPECS.
4. 1/2" PLYWOOD CEILING. FASTEN TO UNDERSIDE OF ROOF TRUSS. PROVIDE 2x2 WOOD PERIMETER TRIM, PAINTED TO MATCH CEILING. PROVIDE 1x2 BATTEN TRIM SPACED EVENLY AT 4' - 0" MAX. AND AT ALL JOINTS, PAINTED TO MATCH CEILING, TYP.
5. FOR PERFORATED SOFFIT VENT LOCATIONS AS INDICATED ON PLANS. PROVIDE 1/2" PLYWOOD, FASTENED TO UNDERSIDE OF ROOF TRUSS, WITH CONTINUOUS 3" GAP NEAR EXTERIOR EDGE (AT PERFORATIONS). STAPLE INSECT SCREEN ACROSS OPENING IN PLYWOOD. COORDINATE OPENING WITH 1/4" CONTINUOUS VENTED CEMENTITIOUS SOFFIT PANEL, AFFIXED TO PLYWOOD. PROVIDE 1x2 BATTEN TRIM SPACED EVENLY AT 4' - 0" MAX. & AT ALL JOINTS. PROVIDE 2x2 BATTEN TRIM AT ALL PERIMETER LOCATIONS. ALL TRIM COLOR TO MATCH SOFFIT, TYP.
6. ALL FLASHINGS AND COUNTERFLASHINGS SHALL HAVE FACTORY FINISH TO MATCH ROOFING. FIELD REPAIR FINISH AS REQUIRED.
7. ALL ATTIC LOUVERS FACTORY FINISHED TO MATCH CEMENTITIOUS SIDING COLOR.
8. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL CEILING PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
9. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL EXTERIOR SOFFIT AND CUPOLA PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
10. PROVIDE 60" DIAMETER LOW PROFILE SOFFIT MOUNTED CEILING FAN. FINISH TO BE SELECTED FROM MANUFACTURER'S STANDARD OPTIONS. B.O.D. - BIG ASS FANS - 60" HAIKU OUTDOOR.
11. MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHOWN FOR REFERENCE. REFER TO DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF PLAN NOTES

1. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, FLOORS, AND ROOFS.
2. ALL EXPOSED STEEL TO BE POWDER COATED. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLOR OPTIONS.
3. CAULK ALL LOUVER & WINDOW FRAMES AT THE JOINT BETWEEN THE FRAME & THE ADJACENT SUBSTRATE.
4. ALL ATTIC LOUVERS FACTORY FINISHED TO MATCH CEMENTITIOUS SIDING COLOR.
5. SEE MECHANICAL & PLUMBING DRAWINGS FOR ALL FACTORY PRIMED, FINISHED WATERTIGHT ROOF PENETRATIONS, PAINTED TO MATCH ROOF.
6. ALL FLASHINGS AND COUNTERFLASHINGS SHALL HAVE FACTORY FINISH TO MATCH ROOFING. FIELD REPAIR FINISH AS REQUIRED.
7. ALL GUTTERS & DOWNSPOUTS TO BE HEAVY DUTY, FACTORY FINISHED, COLOR TO MATCH FASCIA / TRIM. DOWNSPOUTS ARE TO "FOLLOW" THE CONTOUR OF VERTICAL BUILDING ELEMENTS AND ARE TO BE NO MORE THAN 3" FROM ADJACENT MATERIAL FACE AT ANY TIME. PROVIDE INTEGRAL DS GUARDS. SEE CIVIL FOR UNDERGROUND STORM CONNECTIONS, TYP.
8. SEE INDIVIDUAL ROOF PLANS FOR VARIOUS ROOF SLOPES, GUTTER / DS RPOFILES. PROVIDE MIN. 4x4 SQUARE GUTTERS WITH MIN. 6x6 BOX GUTTERS. SEE SPECS.
9. PROVIDE EXP. JOINT CONNECTIONS AT ALL 90 DEG. CORNER TRANSITIONS OF GUTTERS.
10. SLOPE GUTTER 1/16"/12" TO DS, TYP.
11. SEE ROOF DETAILS FOR RIDGE VENT INFORMATION.
12. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL EXTERIOR SOFFIT AND CUPOLA PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
13. MECHANICAL SCREEN LOUVER SYSTEM TO BE _____
14. MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHOWN FOR REFERENCE. REFER TO DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
15. SEE STRUCTURE FOR TRUSS INFORMATION.



1 / A6.B1 REFLECTED CEILING PLAN - BUILDING B
1/4" = 1'-0"



2 / A6.B1 ROOF PLAN - BUILDING B
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
RCP & ROOF PLAN - BUILDING B

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A6.B1

REFLECTED CEILING LEGEND

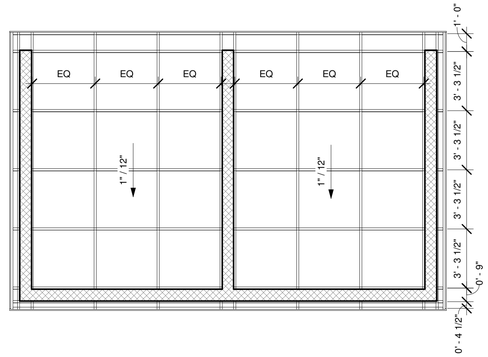
	SURFACE MOUNTED DOWNLIGHT
	2' x 2' LIGHT; RECESS UNITS AT A.C.T., TYP.
	2' x 4' LIGHT; RECESS UNITS AT A.C.T., TYP.
	8' LINEAR LIGHT
	RECESSED 2' x 2' SUPPLY GRILLE
	RECESSED 2' x 2' RETURN GRILLE
M	MOTION SENSOR
	WALL PACK
SD	SMOKE DETECTOR
	DATA OUTLET
	1/2" GYP. BD., PAINTED AS SCHEDULED
	1/2" FINISH GRADE PLYWOOD, PAINTED AS SCHEDULED
	CEILING FAN
K	ACCESS HATCH

REFLECTED CEILING NOTES

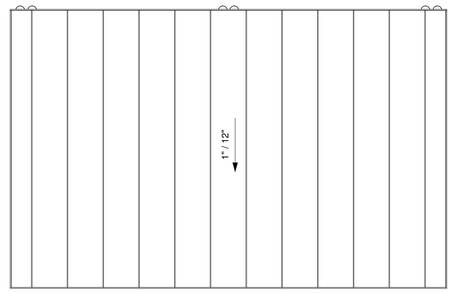
1. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, FLOORS, AND ROOFS.
2. 22" x 36" REMOVABLE PLYWOOD CEILING PANEL FOR ATTIC ACCESS PROVIDED AS INDICATED. CONTINUE INSULATION OVER REMOVABLE PANEL.
3. OVERSIZED 36" x 48" METAL INSULATED LOCKABLE PULL-DOWN ATTIC ACCESS HATCH AS INDICATED. SEE SPECS.
4. 1/2" PLYWOOD CEILING. FASTEN TO UNDERSIDE OF ROOF TRUSS. PROVIDE 2x2 WOOD PERIMETER TRIM, PAINTED TO MATCH CEILING. PROVIDE 1x2 BATTEN TRIM SPACED EVENLY AT 4' - 0" MAX. AND AT ALL JOINTS, PAINTED TO MATCH CEILING, TYP.
5. FOR PERFORATED SOFFIT VENT LOCATIONS AS INDICATED ON PLANS. PROVIDE 1/2" PLYWOOD, FASTENED TO UNDERSIDE OF ROOF TRUSS, WITH CONTINUOUS 3" GAP NEAR EXTERIOR EDGE (AT PERFORATIONS). STAPLE INSECT SCREEN ACROSS OPENING IN PLYWOOD. COORDINATE OPENING WITH 1/4" CONTINUOUS VENTED CEMENTITIOUS SOFFIT PANEL, AFFIXED TO PLYWOOD. PROVIDE 1x2 BATTEN TRIM SPACED EVENLY AT 4' - 0" MAX. & AT ALL JOINTS. PROVIDE 2x2 BATTEN TRIM AT ALL PERIMETER LOCATIONS. ALL TRIM COLOR TO MATCH SOFFIT, TYP.
6. ALL FLASHINGS AND COUNTERFLASHINGS SHALL HAVE FACTORY FINISH TO MATCH ROOFING. FIELD REPAIR FINISH AS REQUIRED.
7. ALL ATTIC LOUVERS FACTORY FINISHED TO MATCH CEMENTITIOUS SIDING COLOR.
8. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL CEILING PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
9. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL EXTERIOR SOFFIT AND CUPOLA PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
10. PROVIDE 60" DIAMETER LOW PROFILE SOFFIT MOUNTED CEILING FAN. FINISH TO BE SELECTED FROM MANUFACTURER'S STANDARD OPTIONS. B.O.D. - BIG ASS FANS - 60" HAIKU OUTDOOR.
11. MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHOWN FOR REFERENCE. REFER TO DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF PLAN NOTES

1. SEAL ALL PENETRATIONS OF CONDUIT, MECHANICAL DUCT WORK, PIPING, ETC. IN ALL SUBSTRATES, INTERIOR AND EXTERIOR WALLS, CEILINGS, FLOORS, AND ROOFS.
2. ALL EXPOSED STEEL TO BE POWDER COATED. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLOR OPTIONS.
3. CAULK ALL LOUVER & WINDOW FRAMES AT THE JOINT BETWEEN THE FRAME & THE ADJACENT SUBSTRATE.
4. ALL ATTIC LOUVERS FACTORY FINISHED TO MATCH CEMENTITIOUS SIDING COLOR.
5. SEE MECHANICAL & PLUMBING DRAWINGS FOR ALL FACTORY PRIMED, FINISHED WATERTIGHT ROOF PENETRATIONS, PAINTED TO MATCH ROOF.
6. ALL FLASHINGS AND COUNTERFLASHINGS SHALL HAVE FACTORY FINISH TO MATCH ROOFING. FIELD REPAIR FINISH AS REQUIRED.
7. ALL GUTTERS & DOWNSPOUTS TO BE HEAVY DUTY, FACTORY FINISHED, COLOR TO MATCH FASCIA / TRIM. DOWNSPOUTS ARE TO "FOLLOW" THE CONTOUR OF VERTICAL BUILDING ELEMENTS AND ARE TO BE NO MORE THAN 3" FROM ADJACENT MATERIAL FACE AT ANY TIME. PROVIDE INTEGRAL DS GUARDS. SEE CIVIL FOR UNDERGROUND STORM CONNECTIONS, TYP.
8. SEE INDIVIDUAL ROOF PLANS FOR VARIOUS ROOF SLOPES, GUTTER / DS RPOFILES. PROVIDE MIN. 4x4 SQUARE GUTTERS WITH MIN. 6x6 BOX GUTTERS. SEE SPECS.
9. PROVIDE EXP. JOINT CONNECTIONS AT ALL 90 DEG. CORNER TRANSITIONS OF GUTTERS.
10. SLOPE GUTTER 1/16"/12" TO DS, TYP.
11. SEE ROOF DETAILS FOR RIDGE VENT INFORMATION.
12. PROVIDE 1x4 PAINTED TRIM BOARDS AT ALL EXTERIOR SOFFIT AND CUPOLA PENETRATIONS. COLOR TO MATCH SURFACE AT MOUNTING LOCATION, TYP.
13. MECHANICAL SCREEN LOUVER SYSTEM TO BE _____
14. MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHOWN FOR REFERENCE. REFER TO DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
15. SEE STRUCTURE FOR TRUSS INFORMATION.



1 A6.F1 REFLECTED CEILING PLAN - BUILDING F
1/4" = 1'-0"



2 A6.F1 ROOF PLAN - BUILDING F
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
ARCHITECT
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

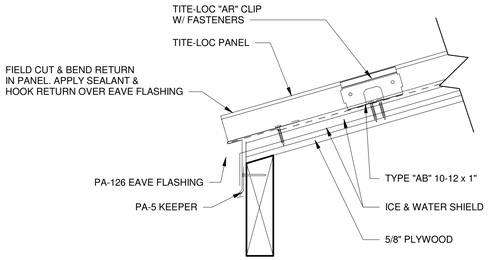
SHEET TITLE
RCP & ROOF PLAN - BUILDING F

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A6.F1

NOTES:

1. REFER TO PAC-CLAD WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO DETAILS FOR SPECIFIC SUBSTRATES & ADDITIONAL INFORMATION REGARDING CONSTRUCTION

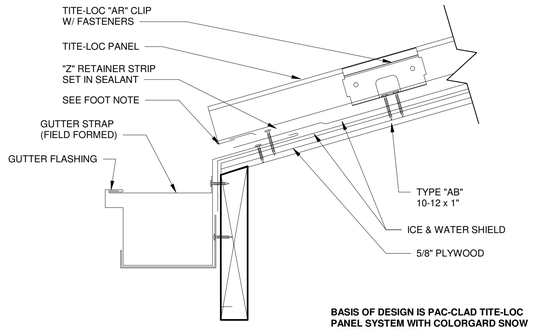


BASIS OF DESIGN IS PAC-CLAD TITE-LOC PANEL SYSTEM WITH COLORGARD SNOW RETENTION SYSTEM.
REFER TO SPECIFICATIONS FOR APPROVED SUBSTITUTES.

1 A7.00 EAVE DETAIL
3" = 1'-0"

NOTES:

1. REFER TO PAC-CLAD WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO DETAILS FOR SPECIFIC SUBSTRATES & ADDITIONAL INFORMATION REGARDING CONSTRUCTION

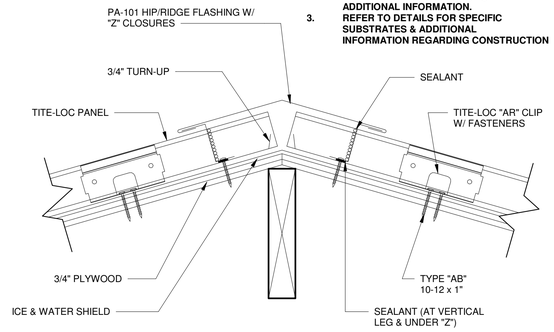


BASIS OF DESIGN IS PAC-CLAD TITE-LOC PANEL SYSTEM WITH COLORGARD SNOW RETENTION SYSTEM.
REFER TO SPECIFICATIONS FOR APPROVED SUBSTITUTES.

2 A7.00 GUTTER DETAIL
3" = 1'-0"

NOTES:

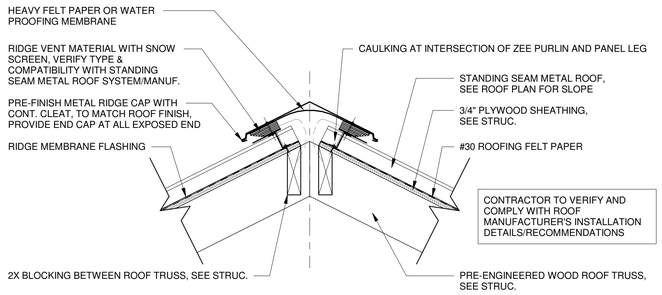
1. REFER TO PAC-CLAD WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO DETAILS FOR SPECIFIC SUBSTRATES & ADDITIONAL INFORMATION REGARDING CONSTRUCTION



BASIS OF DESIGN IS PAC-CLAD TITE-LOC PANEL SYSTEM WITH COLORGARD SNOW RETENTION SYSTEM.
REFER TO SPECIFICATIONS FOR APPROVED SUBSTITUTES.

3 A7.00 HIP / RIDGE CAP DETAIL
3" = 1'-0"

ROOF PITCH VARIES, REFER TO A7.00 SERIES SHEETS FOR MORE ROOFING DETAILS

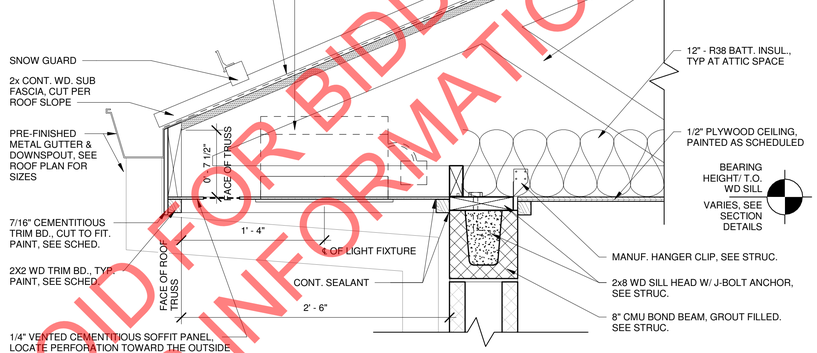


4 A7.00 RIDGE VENT - STANDING SEAM ROOF
1 1/2" = 1'-0"

ROOF CONSTRUCTION:

- PRE-FINISHED STANDING SEAM METAL ROOFING
- W/ SNOW GUARDS
- ON #30 FELT
- ON 3/4" PLYWD. SHEATHING, SEE STRUC.
- ON PRE-ENGINEERED METAL CONNECTED WOOD TRUSSES, SEE STRUC.
- REFER TO A7.00 SERIES SHEETS FOR MORE ROOFING DETAILING

ROOF PITCH VARIES. SEE ROOF PLAN. REFER TO A7.00 SERIES SHEETS FOR MORE ROOFING DETAILING

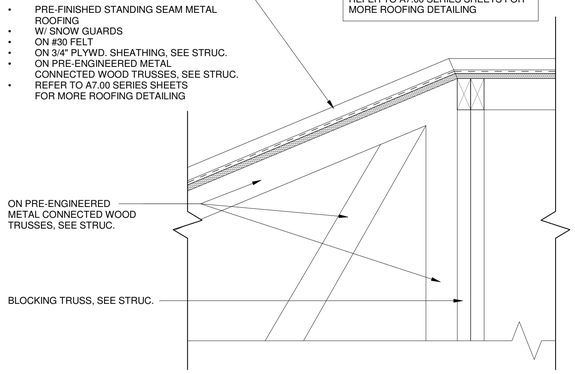


5 A7.00 SECTION DETAIL AT ROOF EDGE
1 1/2" = 1'-0"

ROOF CONSTRUCTION:

- PRE-FINISHED STANDING SEAM METAL ROOFING
- W/ SNOW GUARDS
- ON #30 FELT
- ON 3/4" PLYWD. SHEATHING, SEE STRUC.
- ON PRE-ENGINEERED METAL CONNECTED WOOD TRUSSES, SEE STRUC.
- REFER TO A7.00 SERIES SHEETS FOR MORE ROOFING DETAILING

ROOF PITCH VARIES. SEE ROOF PLAN. REFER TO A7.00 SERIES SHEETS FOR MORE ROOFING DETAILING



6 A7.00 SECTION AT TRUSS
1 1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
ARCHITECT
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

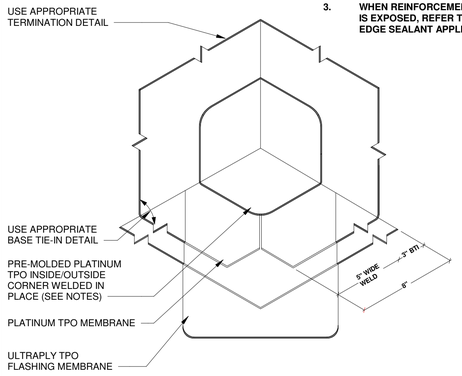
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ROOF DETAILS - STANDING SEAM

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE As indicated
CHECKED BY SG	

SHEET NO.
A7.00



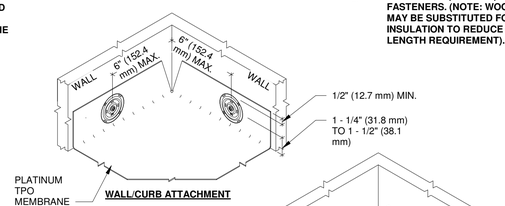
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PUT-LS-1 OR 3 FOR WELD WIDTH.
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

1 ROOF MEMBRANE DETAIL CORNER

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.



BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

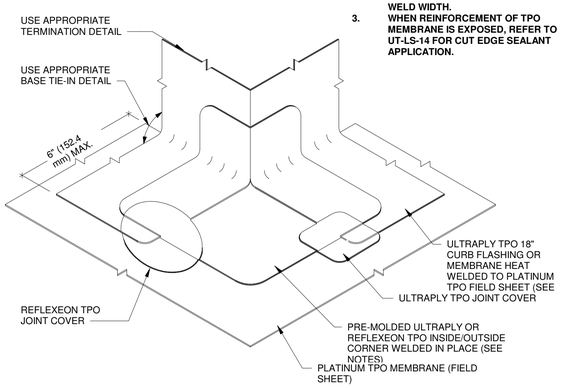
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).

2 ROOF MEMBRANE DETAIL INTERIOR CORNER

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.



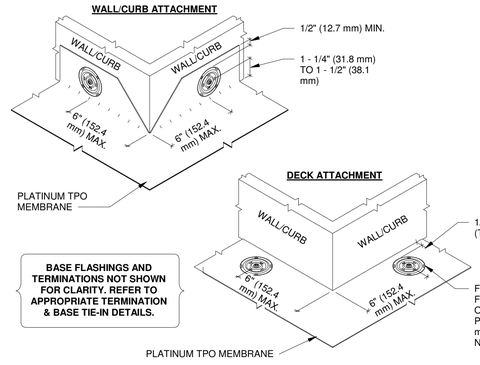
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PUT-LS-1 OR 3 FOR WELD WIDTH.
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

3 ROOF MEMBRANE DETAIL EXTERIOR CORNER

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.



BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

NOTES:

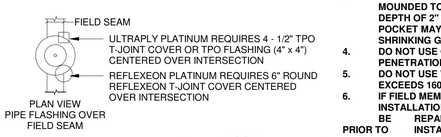
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).

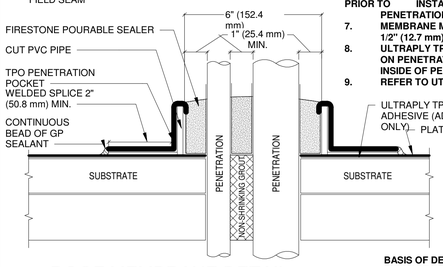
4 ROOF MEMBRANE DETAIL EXTERIOR CORNER

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.

SEE ROOF PLAN FOR SLOPE, TYP.





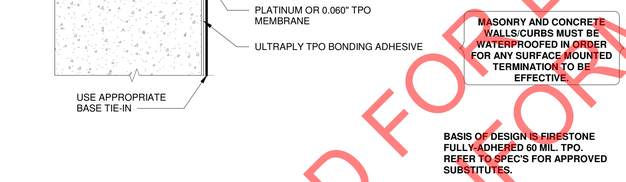
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNDED TO SHED WATER (MINIMUM DEPTH OF 2" (50.8 mm), REMAINDER OF POCKET MAY BE FILLED WITH A NON-SHRINKING GROUT.
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160° F. REFER TO UT-P-6 & 7.
6. IF FIELD MEMBRANE IS CUT FOR INSTALLATION, THE MEMBRANE MUST BE REPAIRED WITH TPO MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKET.
7. MEMBRANE MUST BE INSTALLED WITHIN 1/2" (12.7 mm) OF PENETRATION.
8. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET.
9. REFER TO UT-P-15 OR 16 FOR MAS.

5 ROOF MEMBRANE DETAIL PENETRATION

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.



MASONRY AND CONCRETE WALLS/CURBS MUST BE WATERPROOFED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

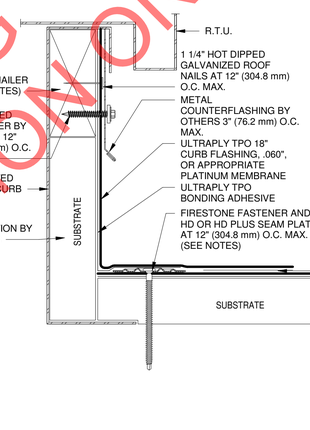
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6.4 mm) GAP BETWEEN ADJOINING SECTIONS.
5. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNERS. DO NOT BEND AROUND CORNERS.
6. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25.4 mm) MAX. OF ALL SECTION ENDS.
7. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

6 ROOF MEMBRANE DETAIL TERMINATION BAR - WALL

A7.01 NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.



NOTES:

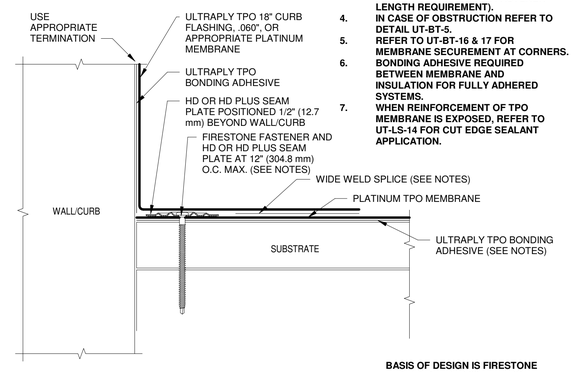
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PUT-LS-1 OR 3 FOR WELD WIDTH.
3. NAILING AND METAL COUNTERFLASHING ARE NOT REQUIRED IF MEMBRANE IS RUN UP AND OVER CURB WALLS PRIOR TO INSTALLATION OF R.T.U.
4. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE MOUNTED TIGHTLY TO UNDERSIDE OF MECHANICAL UNIT.
5. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO PUT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
8. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

7 ROOF MEMBRANE DETAIL ROOF TO CURB - HVAC

A7.01 NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.

SEE ROOF PLAN FOR SLOPE, TYP.



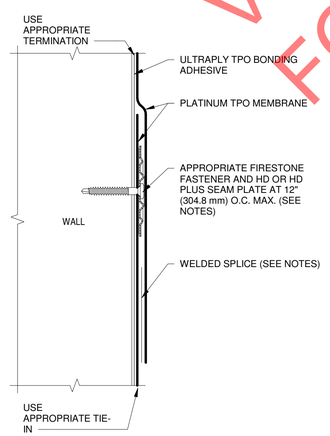
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PUT-LS-1 OR 3 FOR WELD WIDTH.
3. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
4. IN CASE OF OBSTRUCTION REFER TO DETAIL UT-BT-5.
5. REFER TO UT-BT-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

8 ROOF MEMBRANE DETAIL LAP JOINT - WALL

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PUT-LS-1 OR 3 FOR WELD WIDTH.
3. FIRESTONE BATTEN STRIP MAY BE USED IN LIEU OF SEAM PLATES. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
4. IF INTERMEDIATE ATTACHMENT IS REQUIRED, COMPLETE AS FOLLOWS:
   - UP TO 3' (1 M) WALL HEIGHT - NONE REQUIRED
   - 3' (1 M) - 6' (2 M) - ONE ATTACHMENT AT 1/2 THE WALL HEIGHT
   - ABOVE 6' (2 M) - ONE ATTACHMENT EVERY 3' (1 M)
5. THERE ARE SOME CONDITIONS WHICH DO NO REQUIRE INTERMEDIATE ATTACHMENT. REFER TO FIRESTONE APPLICATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
7. 5" WIDE WELD IS ACCEPTABLE AS AN ALTERNATE TO STANDARD 1 1/2" WELD FOR WALL FLASHINGS.

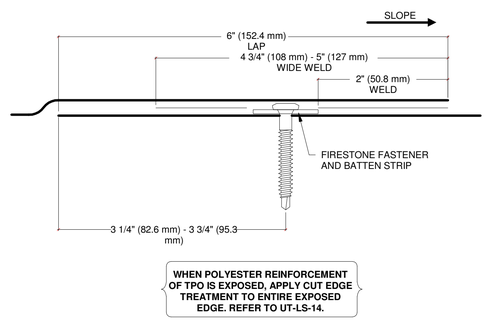
9 ROOF MEMBRANE DETAIL LAP JOINT - WALL

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.



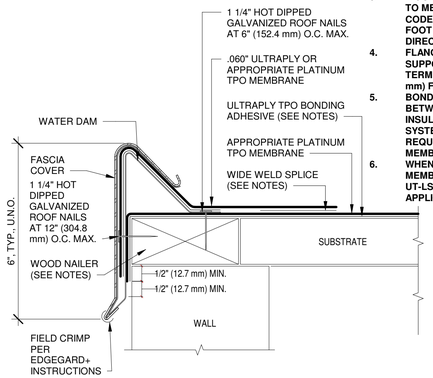
WHEN POLYESTER REINFORCEMENT OF TPO IS EXPOSED, APPLY CUT EDGE TREATMENT TO ENTIRE EXPOSED EDGE. REFER TO UT-LS-14.

10 ROOF MEMBRANE DETAIL LAP JOINT - ROOF

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.

SEE ROOF PLAN FOR SLOPE, TYP.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL PUT-LS-1 OR 3 FOR WELD WIDTH.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS. BONDING ADHESIVE REQUIRED BETWEEN METAL AND MEMBRANE FOR ALL SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

11 ROOF MEMBRANE DETAIL ROOF EDGE

A7.01 SCALE:NOT TO SCALE

BASIS OF DESIGN IS FIRESTONE FULLY-ADHERED 60 MIL. TPO. REFER TO SPEC'S FOR APPROVED SUBSTITUTES.

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
DEPARTMENT OF AGRICULTURE
No. 105240
02.25.21
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

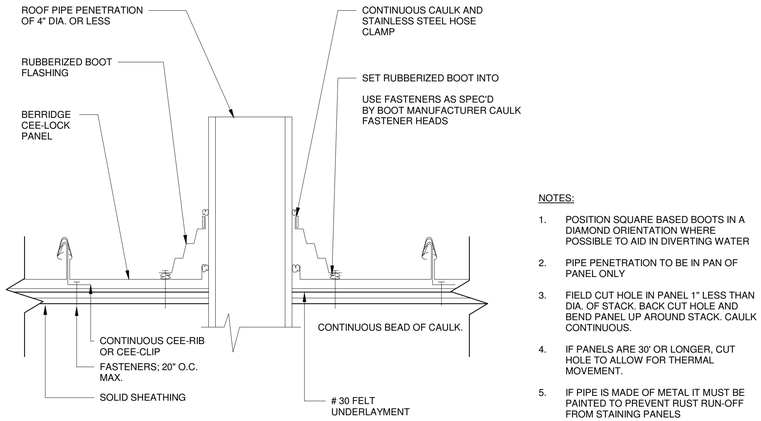
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
ROOF DETAILS - MEMBRANE

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	NOT TO SCALE
CHECKED BY	
SG	

SHEET NO.
A7.01

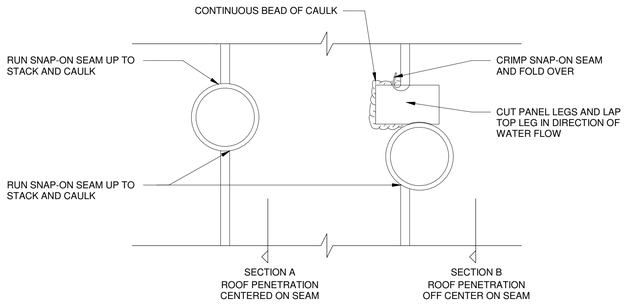


NOTES:

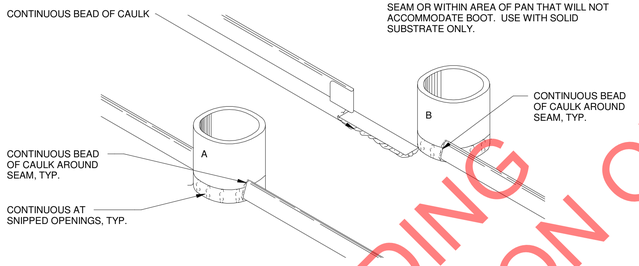
1. POSITION SQUARE BASED BOOTS IN A DIAMOND ORIENTATION WHERE POSSIBLE TO AID IN DIVERTING WATER
2. PIPE PENETRATION TO BE IN PAN OF PANEL ONLY
3. FIELD CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUND STACK. CAULK CONTINUOUS.
4. IF PANELS ARE 30' OR LONGER, CUT HOLE TO ALLOW FOR THERMAL MOVEMENT.
5. IF PIPE IS MADE OF METAL IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS

1 / A7.02 — ROOF PENETRATION DETAIL

3" = 1'-0"



VERIFY WITH SELECTED MANUFACTURER BEFORE USING THIS DETAIL



NOTE: IF PIPE IS MADE OF METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS

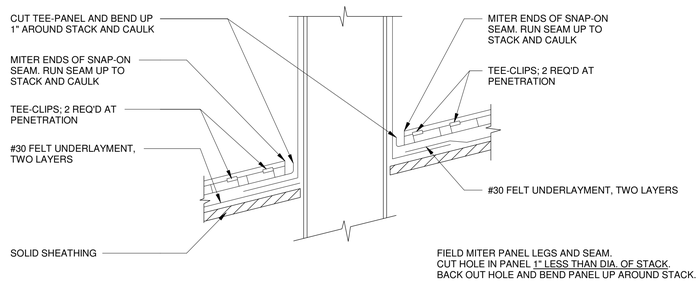
SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

2 / A7.02 — DETAIL - ROOF STACK PENETRATIONS

1" = 1'-0"

SECTION A

USE THIS DETAIL WHEN STACK IS CENTERED ON SNAP-ON SEAM

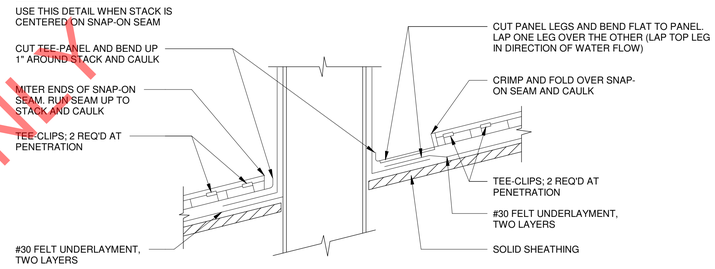


FIELD MITER PANEL LEGS AND SEAM. CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK OUT HOLE AND BEND PANEL UP AROUND STACK.

VERIFY WITH SELECTED MANUFACTURER BEFORE USING THIS DETAIL

SECTION B

USE THIS DETAIL WHEN STACK IS CENTERED ON SNAP-ON SEAM

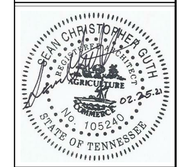


NOTE: IF PIPE IS MADE OF METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS

SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

FIELD CUT LEGS 2" BACK FROM STACK (ABOVE STACK). FIELD MITER LEGS AND SEAMS BELOW STACK. CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUND STACK.

LOSE DESIGN
SPACES FOR LIFE.



FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

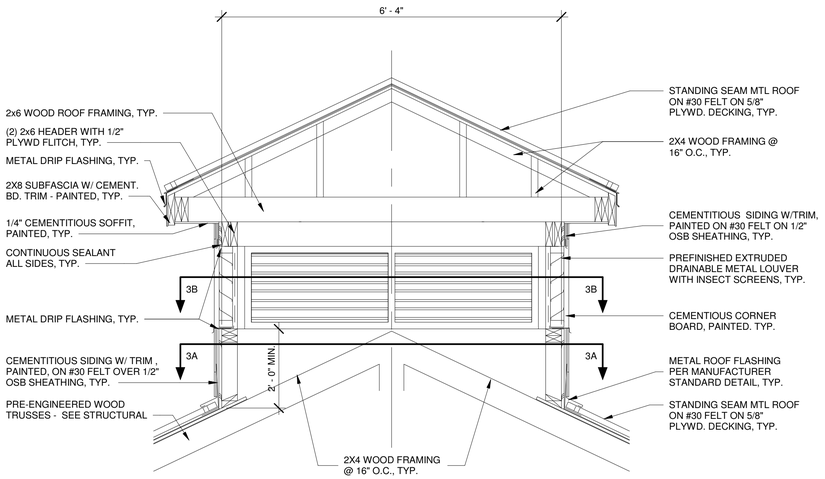
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
DETAILS - ROOF PENETRATIONS

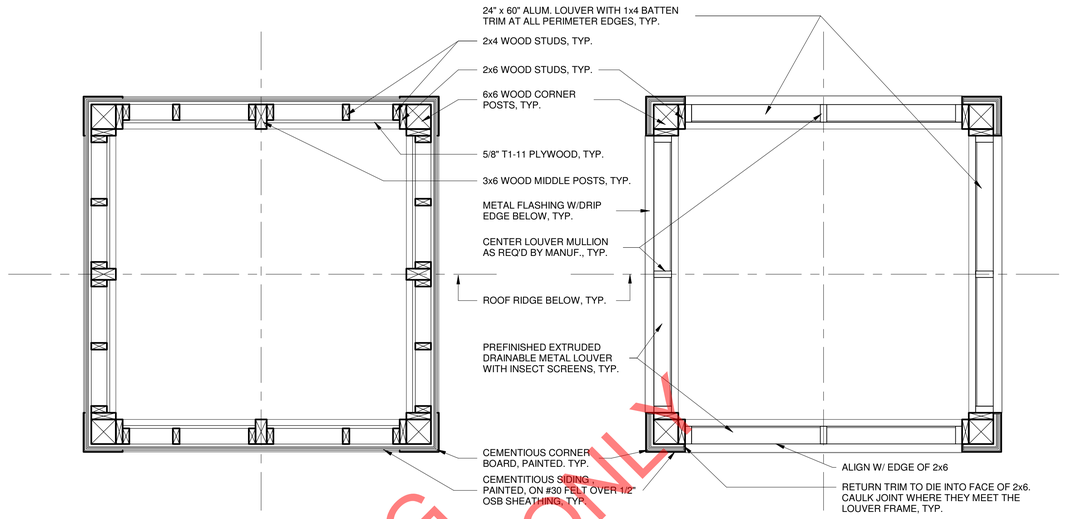
PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: As indicated
CHECKED BY: SG	

SHEET NO.
A7.02



1 A7.03 CUPOLA SECTION - BUILDING A & B

3/4" = 1'-0"

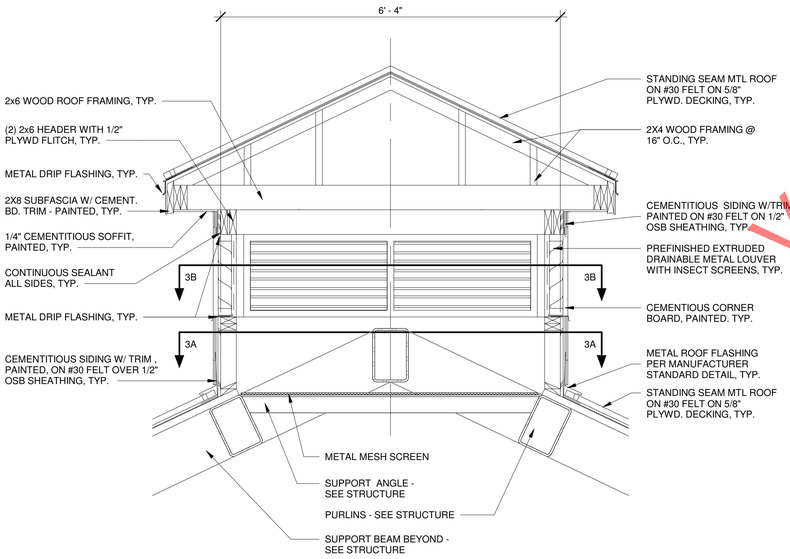


3A CUPOLA PLAN @ FRAMING

3B CUPOLA PLAN @ LOUVERS

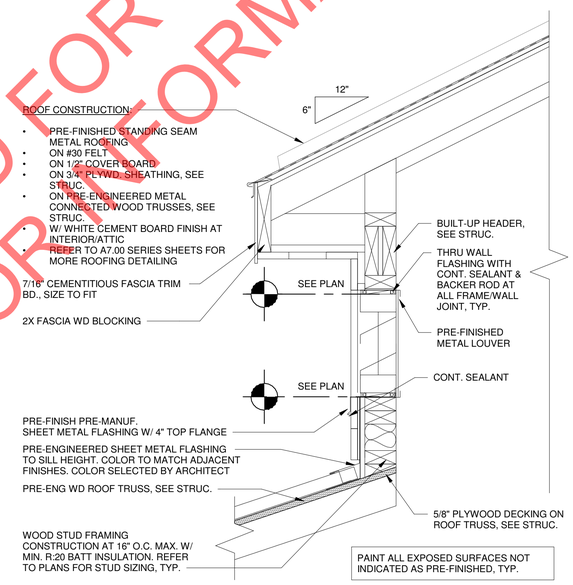
3 A7.03 CUPOLA ENLARGED PLANS

3/4" = 1'-0"



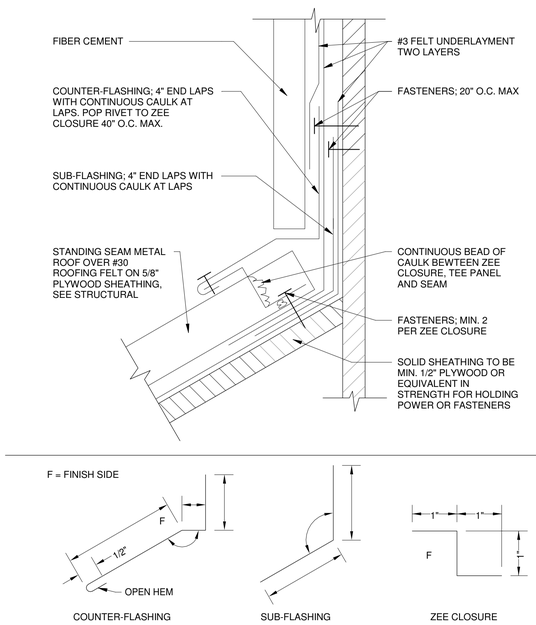
2 A7.03 CUPOLA SECTION - BUILDING C & D

3/4" = 1'-0"



4 A7.03 SECTION THROUGH CUPOLA

1 1/2" = 1'-0"



5 A7.03 DETAIL - HEAD WALL DETAIL

N.T.S.

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

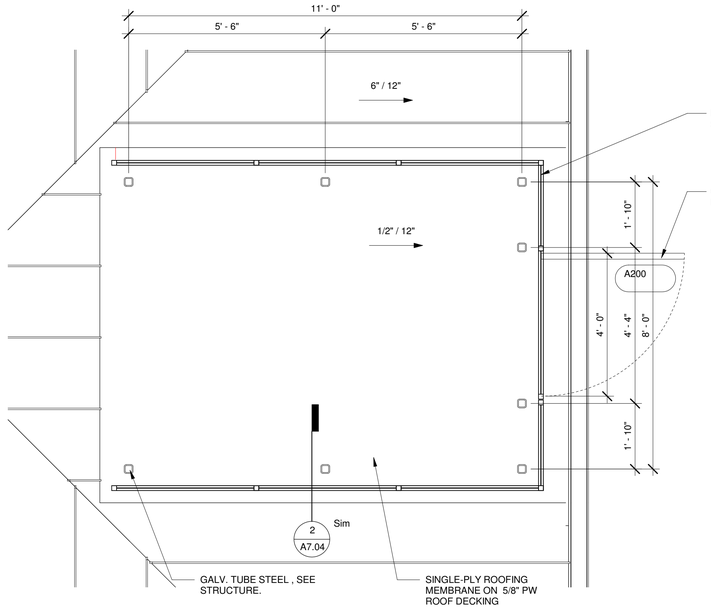
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

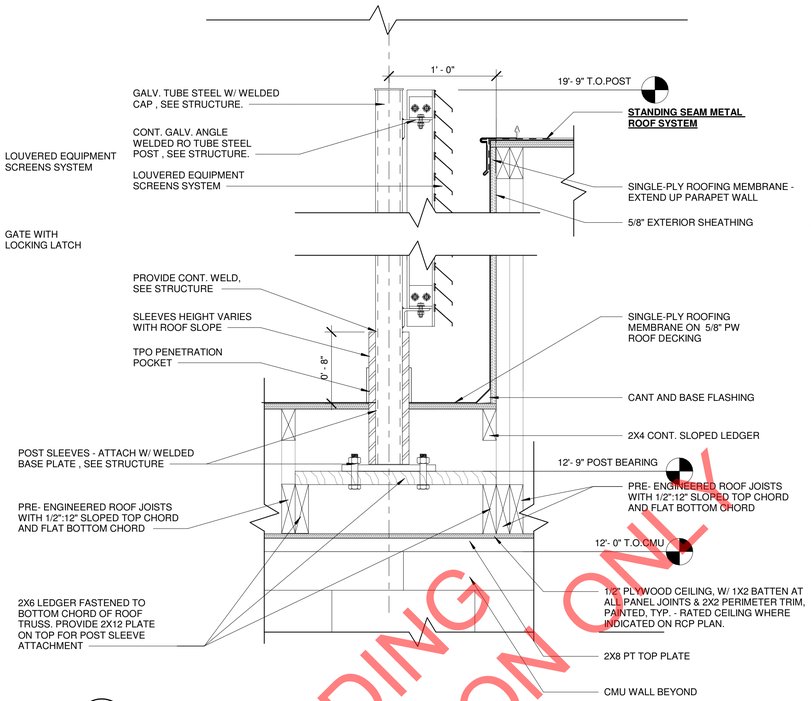
SHEET TITLE
DETAILS - CUPOLA DETAILS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	As indicated
CHECKED BY	
SG	

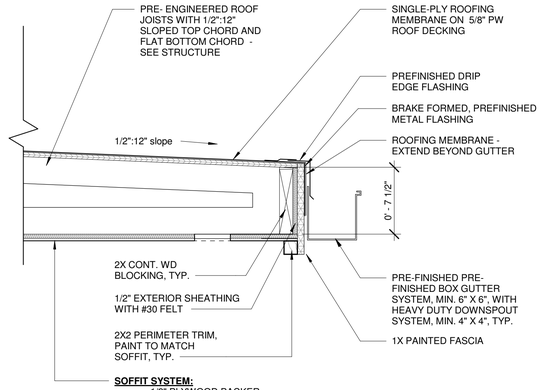
SHEET NO.
A7.03



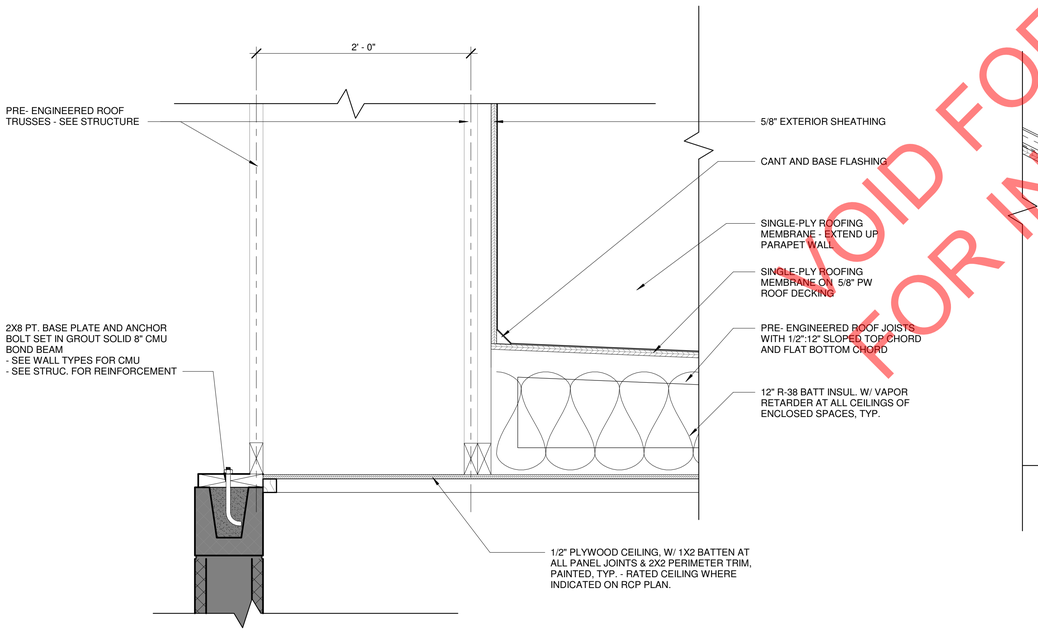
1 A7.04 ENLARGED MECHANICAL ROOF PLAN
1/2" = 1'-0"



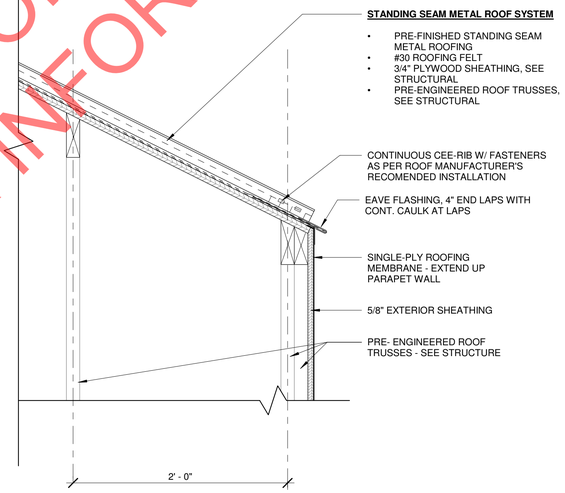
2 A7.04 DETAIL - ROOF SCREENS POST
1 1/2" = 1'-0"



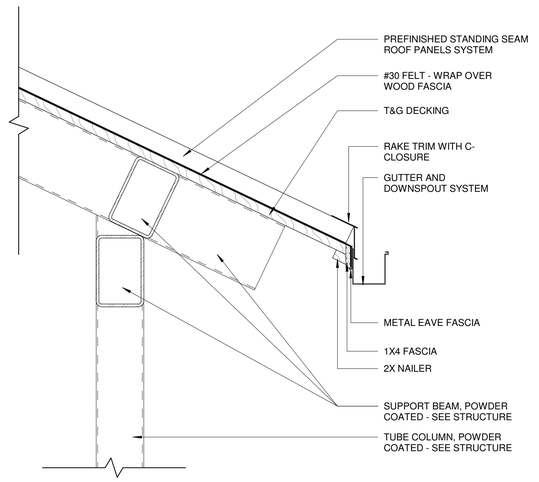
3 A7.04 DETAIL - ROOF EAVE
1 1/2" = 1'-0"



4 A7.04 DETAIL - ROOF GABLE
1 1/2" = 1'-0"



5 A7.04 DETAIL - ROOF EDGE, RAKE
1 1/2" = 1'-0"



6 A7.04 DETAIL - ROOF EAVE,BUILDING C&D
1" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

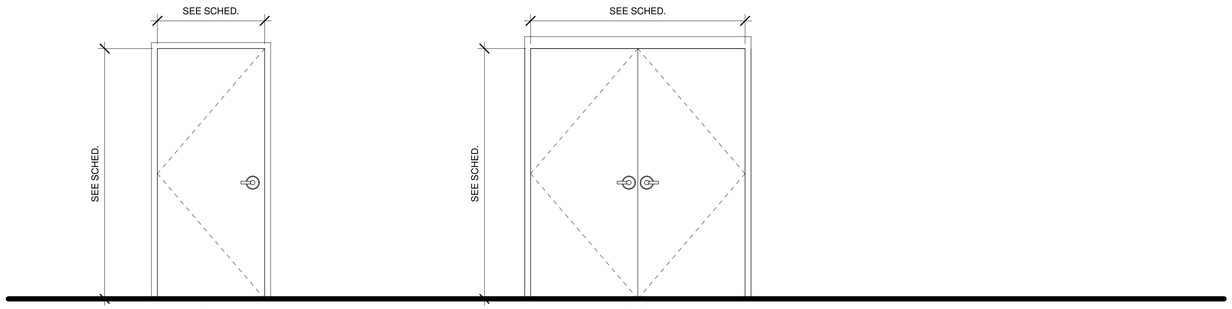
NO	DATE	DESCRIPTION

SHEET TITLE
DETAILS - ROOF DETAILS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: As indicated
CHECKED BY: SG	

SHEET NO.
A7.04

GRAPHIC DOOR LEGEND



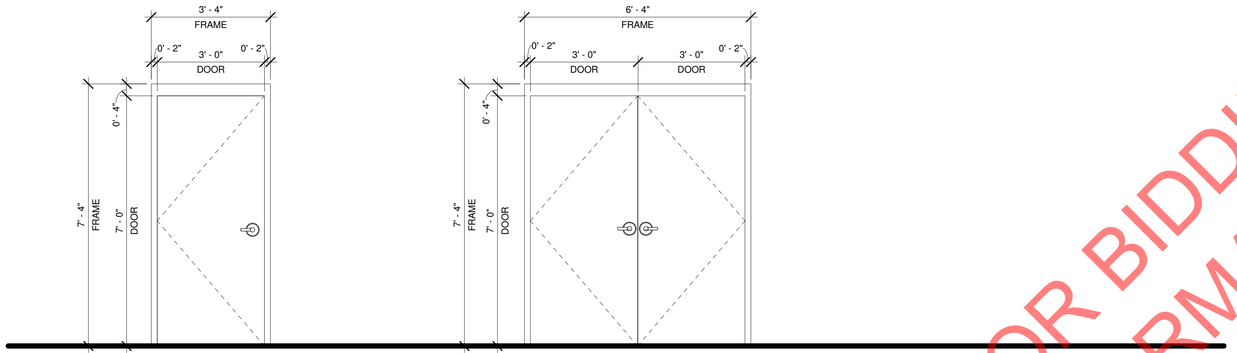
DA

METAL SINGLE DOOR -
HOLLOW AT INTERIOR LOCATIONS,
INSULATED AT EXTERIOR LOCATIONS

DB

METAL DOUBLE DOOR -
HOLLOW AT INTERIOR LOCATIONS,
INSULATED AT EXTERIOR LOCATIONS

GRAPHIC DOOR FRAME LEGEND



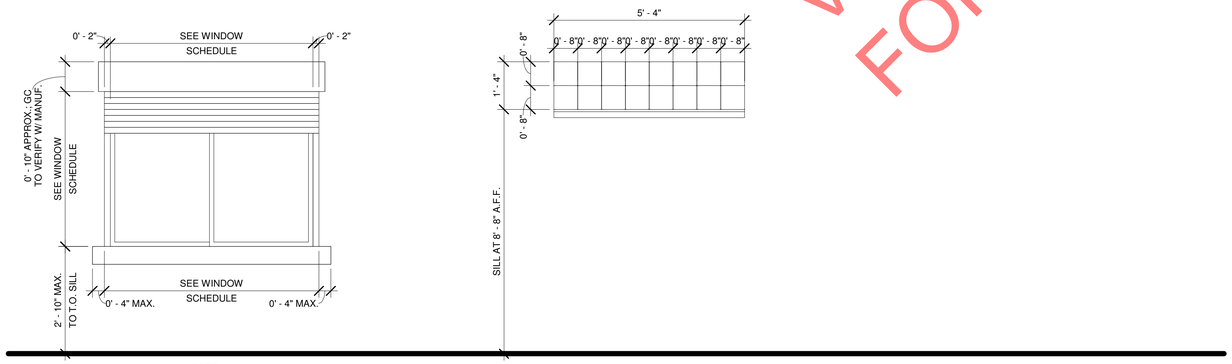
FA

SINGLE DOOR IN CMU WALL, TYP.

FB

DOUBLE DOOR IN CMU WALL, TYP.

GRAPHIC WINDOW LEGEND



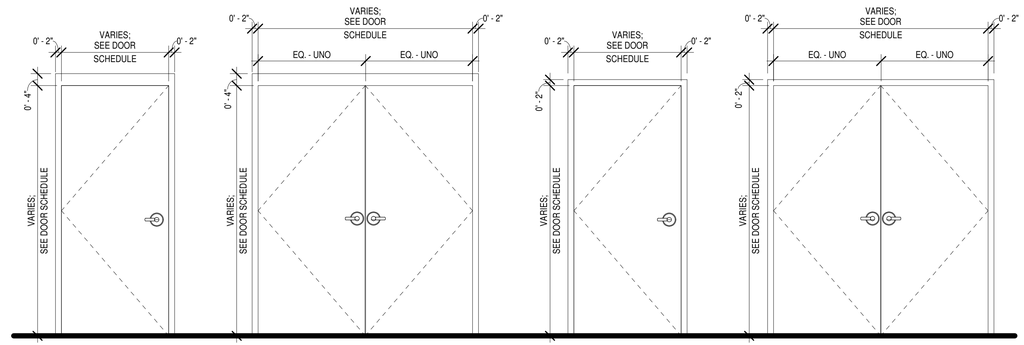
W01

HORIZONTAL SLIDING TRANSACTION WINDOW
WITH OVERHEAD COILING SHUTTER -
BUILDING A CONCESSIONS.
WINDOWS MUST MEET ENERGY COMPLIANCE
WHEN CLOSED / NOT IN USE

8x8 GLASS BLOCK

BUILDINGS A & B AS INDICATED ON
ELEVATIONS.

DOOR NOTES



SINGLE DOOR IN CMU WALL

DOUBLE DOOR IN CMU WALL

SINGLE DOOR IN STUD WALL

DOUBLE DOOR IN STUD WALL

1. SEE DOOR HARDWARE SPECIFICATIONS FOR HARDWARE SET INFO.
2. AUTOMATIC DOOR CLOSER
3. DIMENSIONS PROVIDED FOR MECHANICAL GATES ARE NOMINAL & APPROXIMATE. GC TO VERIFY & COORDINATE ALL DIMENSIONS, MATERIALS, AND CONNECTIONS FOR MECHANICAL LOUVER SCREENS AND GATES WITH MANUFACTURER, TYP.

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
DOOR & WINDOW LEGENDS AND NOTES

PROJECT NO.	DATE
19062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	1/2" = 1'-0"
CHECKED BY	
SG	

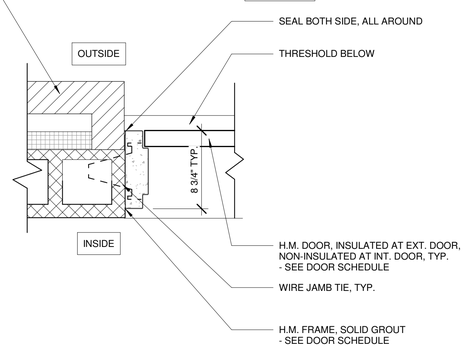
SHEET NO.
A8.00

BRICK VENEER WALL SYSTEM:

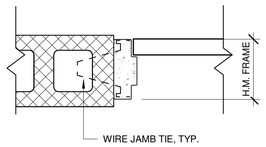
- 8" CMU, DAMP PROOFING, PAINTED AS SCHEDULED
- 2" CONTINUOUS RIGID INSULATION , R-10
- 2" AIR SPACE
- 4" BRICK VENEER WITH ADJUSTABLE TIES @16" O.C. MAX HORIZONTALLY & VERTICALLY

-SEE STRUCTURE

A - JAMB



A - JAMB

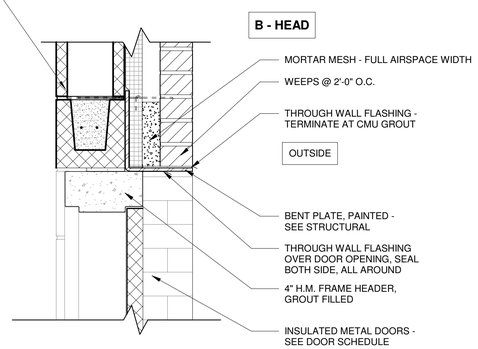


WALL SYSTEM:

- 8" CMU, DAMP PROOFING, PAINTED AS SCHEDULED
- 2" CONTINUOUS RIGID INSULATION , R-10
- 2" AIR SPACE
- 4" BRICK VENEER WITH ADJUSTABLE TIES @16" O.C. MAX HORIZONTALLY & VERTICALLY

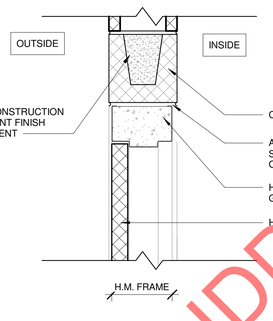
-SEE STRUCTURE

B - HEAD

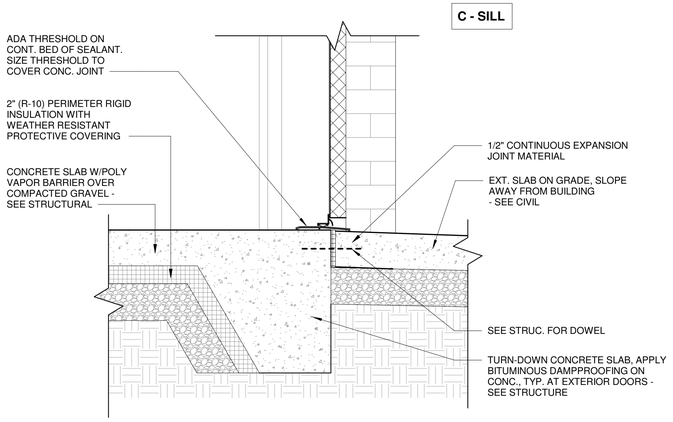


B - HEAD

INTERIOR WALL
- 8" STANDARD CMU, INTERIOR
- SEE A0.41 FOR RATED WALL CONSTRUCTION
- SEE FINISH SCHEDULE FOR PAINT FINISH
- SEE STRUC. FOR REINFORCEMENT

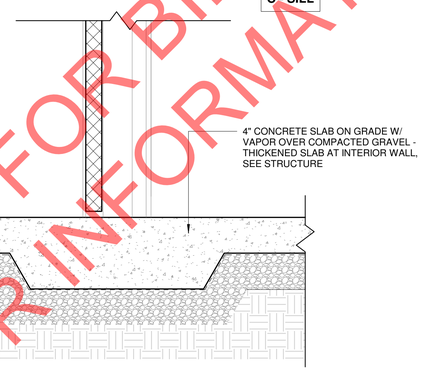


C - SILL



1 / A8.01 HM DOOR DETAILS - EXTERIOR WALL
1 1/2" = 1'-0"

C - SILL



2 / A8.01 H.M. DOOR DETAILS - INTERIOR WALL
1 1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
ARCHITECTURE
02.25.21
No. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

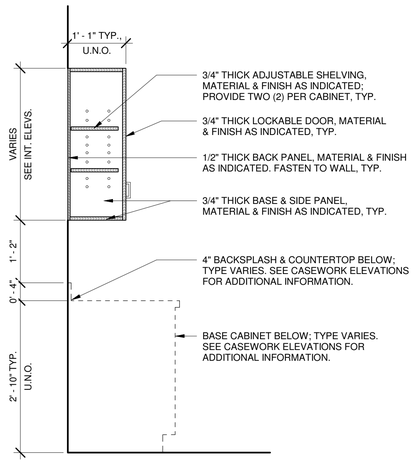
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

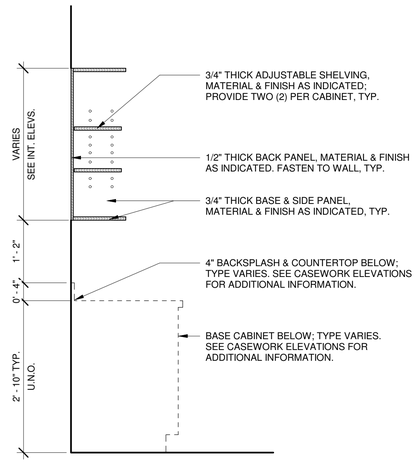
SHEET TITLE
DOOR NOTES & DETAILS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: AS, DA	SCALE: 1 1/2" = 1'-0"
CHECKED BY: SG	

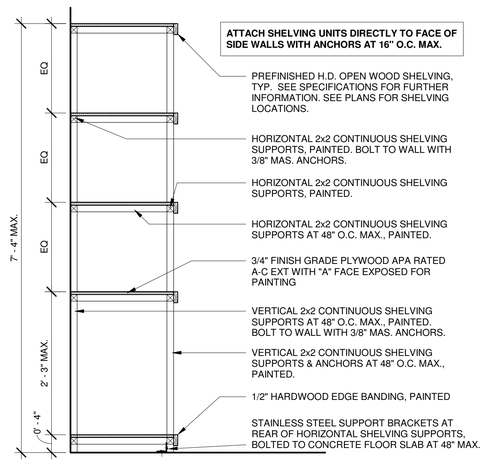
SHEET NO.
A8.01



1 A9.00 UPPER CABINET
3/4" = 1'-0"



2 A9.00 UPPER OPEN SHELVING
3/4" = 1'-0"



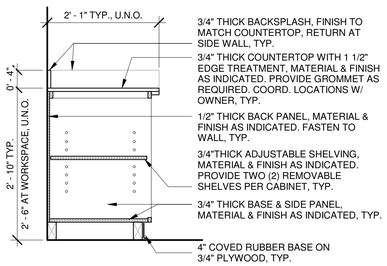
3 A9.00 TALL OPEN SHELVING
3/4" = 1'-0"

CASEWORK NOTES

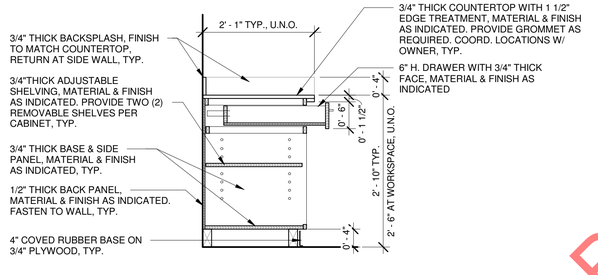
1. CASEWORK DETAILS / SECTIONS ARE SHOWN FOR DESIGN INTENT ONLY.
2. ALL EXPOSED INSIDE CABINET SURFACES TO BE WHITE MELAMINE LAMINATE, U.N.O.
3. PROVIDE GROMMETS AT ALL UNDERCOUNTER ELECTRICAL OUTLET LOCATIONS.
4. PROVIDE CLEAR SEALANT BETWEEN ALL CASEWORK AND WALL SURFACES.
5. PLYWOOD COUNTERTOP TO RECEIVE SINK SHALL BE APA MARINE GRADE.
6. COUNTERTOP HEIGHT AT WORKSPACE SHALL BE 2' - 6" A.F.F., ALL OTHERS SHALL BE 2' - 10", U.N.O.
7. ALL DRAWERS AND CABINETS SHALL BE LOCKABLE, U.N.O.
8. CASEWORK FINISHES TO BE AS FOLLOWS:

CONCESSIONS (BUILDING A) -

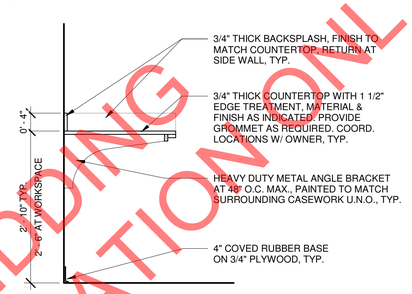
- 3/4" SOLID SURFACE COUNTERTOP WITH 1 1/2" EDGE TREATMENT AND 4" BACKSPLASH, COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.
- 3/4" PLYWOOD WITH PLASTIC LAMINATE FINISH FOR BASE CABINETS (DOORS, DRAWERS, SIDE/END PANELS), COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.
- 3/4" PLYWOOD WITH PLASTIC LAMINATE FINISH FOR SUPPORT BRACKETS, COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.
- 3/4" PLYWOOD WITH PLASTIC LAMINATE FINISH FOR UPPER CABINETS, COLOR & FINISH AS NOTED IN SCHEDULES, DRAWINGS, & SPECS.



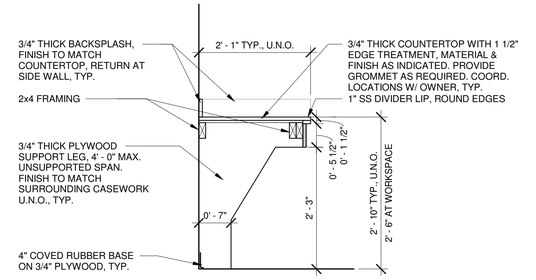
4 A9.00 OPEN BASE CABINET
3/4" = 1'-0"



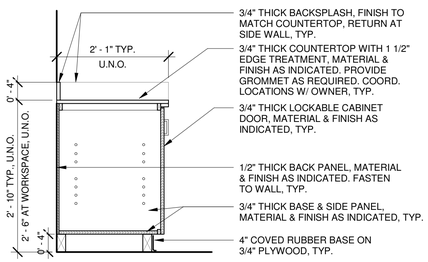
5 A9.00 OPEN BASE CABINET WITH DRAWER
3/4" = 1'-0"



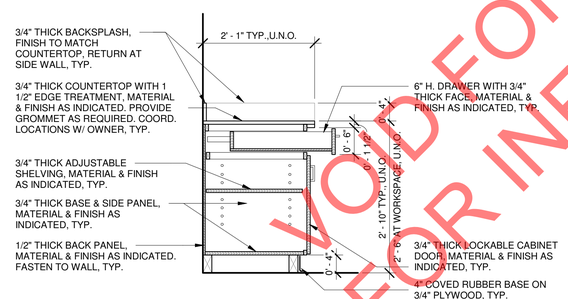
6 A9.00 COUNTERTOP WITH WALL BRACKETS
3/4" = 1'-0"



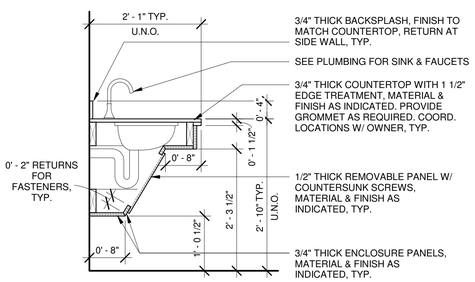
7 A9.00 COUNTERTOP WITH FLOOR SUPPORTS
3/4" = 1'-0"



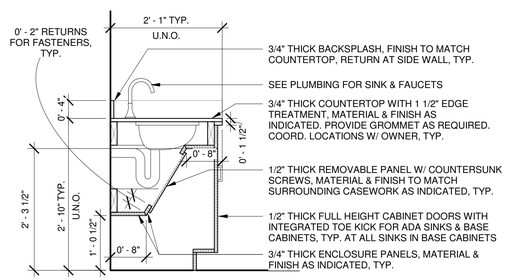
8 A9.00 BASE CABINET WITH DOOR
3/4" = 1'-0"



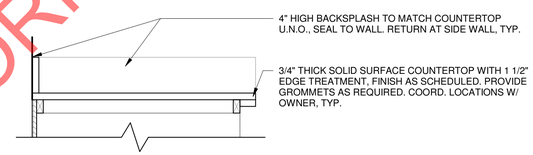
9 A9.00 BASE CABINET WITH DRAWER & DOOR
3/4" = 1'-0"



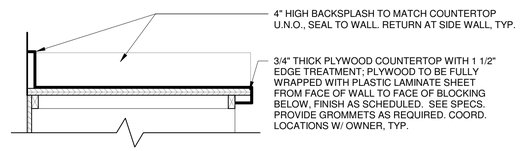
10 A9.00 COUNTERTOP WITH SINK ENCLOSURE
3/4" = 1'-0"



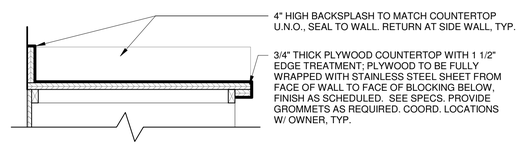
11 A9.00 COUNTERTOP FOR ADA SINK WITH CABINET DOORS
3/4" = 1'-0"



A - SOLID SURFACE COUNTERTOP



B - PLASTIC LAMINATE COUNTERTOP



C - STAINLESS STEEL COUNTERTOP

12 A9.00 COUNTERTOP DETAILS
1 1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

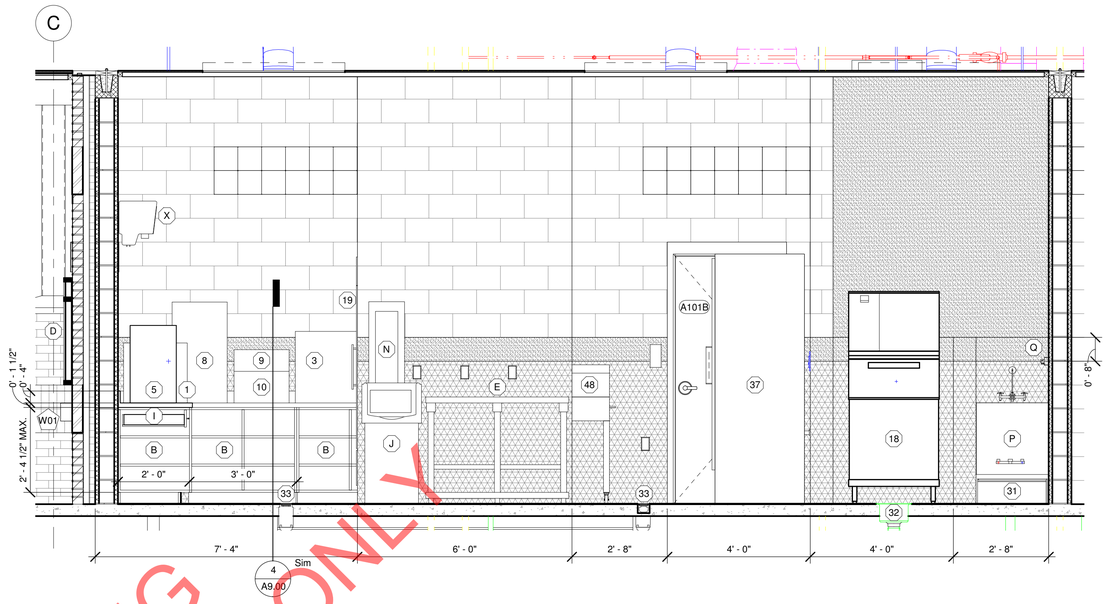
NO	DATE	DESCRIPTION

SHEET TITLE
CASEWORK DETAILS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
AS, DA	As indicated
CHECKED BY	
SG	

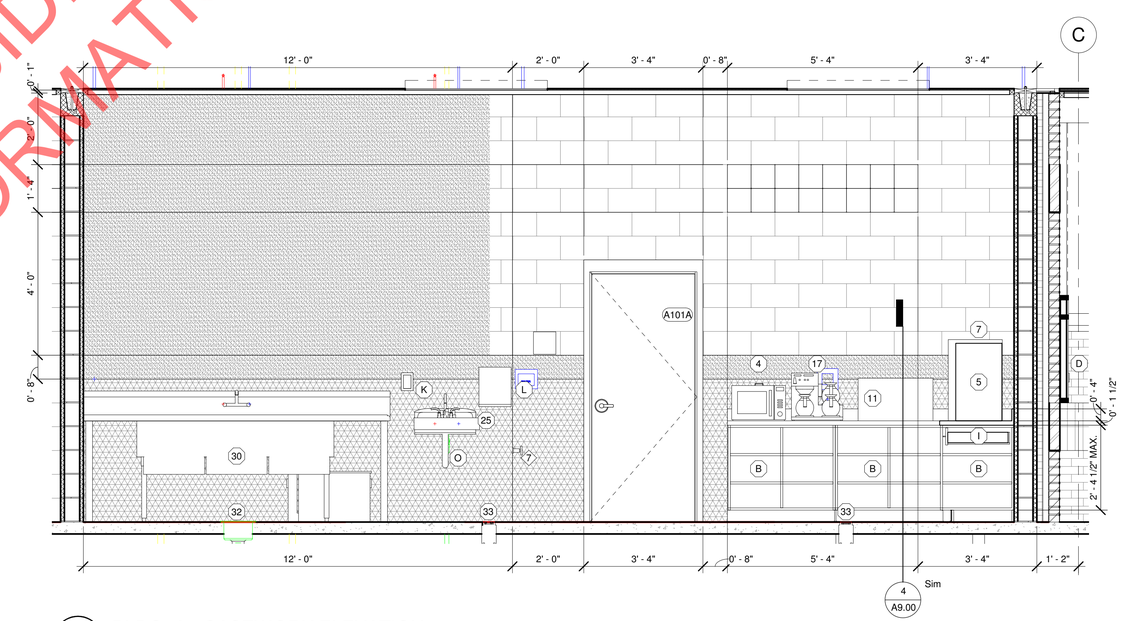
SHEET NO.
A9.00

1 A9.01 BLDG. A - CASEWORK ELEVATION 1
1/2" = 1'-0"



2 A9.01 BLDG. A - CASEWORK ELEVATION 2
1/2" = 1'-0"

3 A9.01 BLDG. A - CASEWORK ELEVATION 3
1/2" = 1'-0"



4 A9.01 BLDG. A - CASEWORK ELEVATION 4
1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

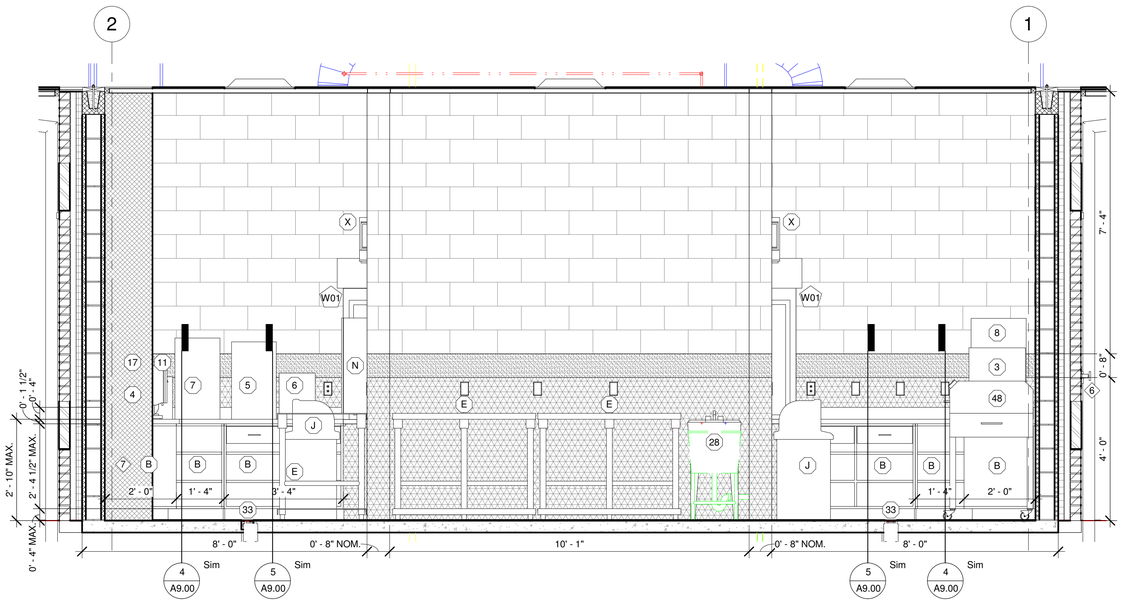
SUBMITTALS / REVISIONS

NO.	DATE	DESCRIPTION

SHEET TITLE
CASEWORK ELEVATIONS

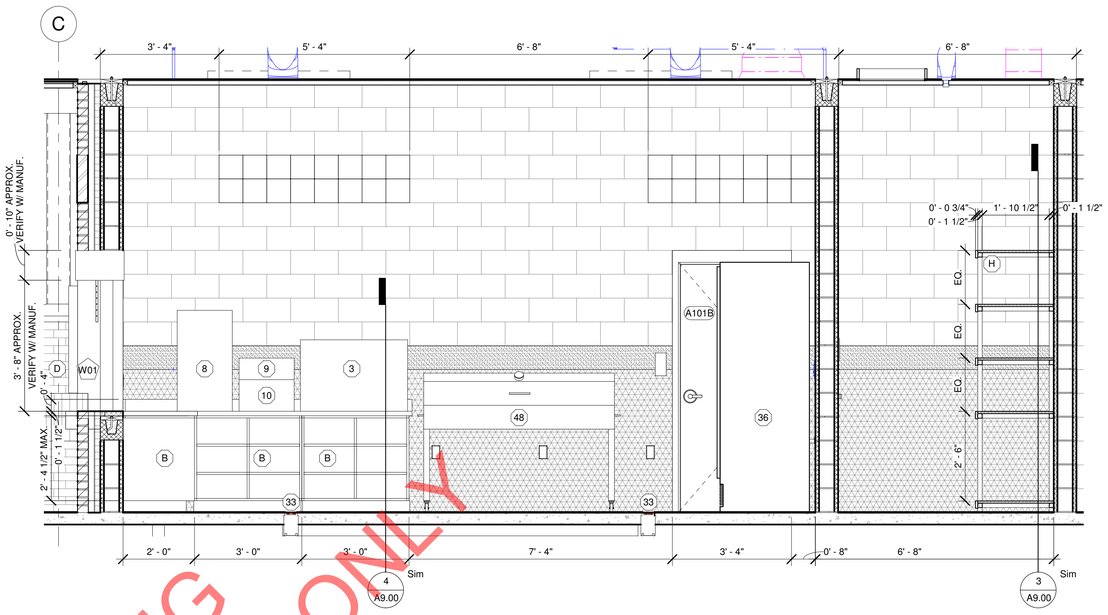
PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/2" = 1'-0"
CHECKED BY SG	

SHEET NO.
A9.01



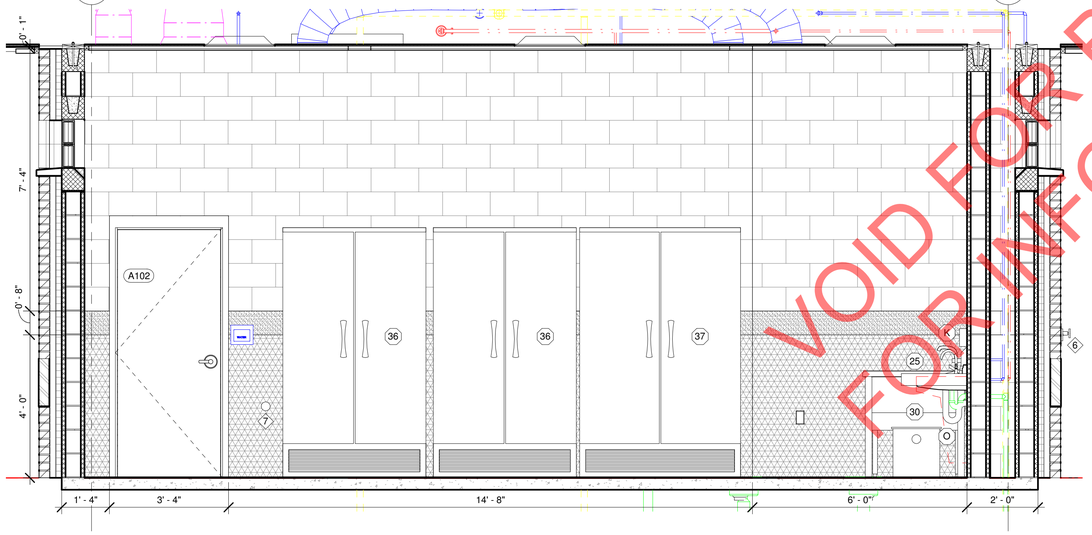
1 A9.02 BLDG. A - CASEWORK ELEVATION 5

1/2" = 1'-0"



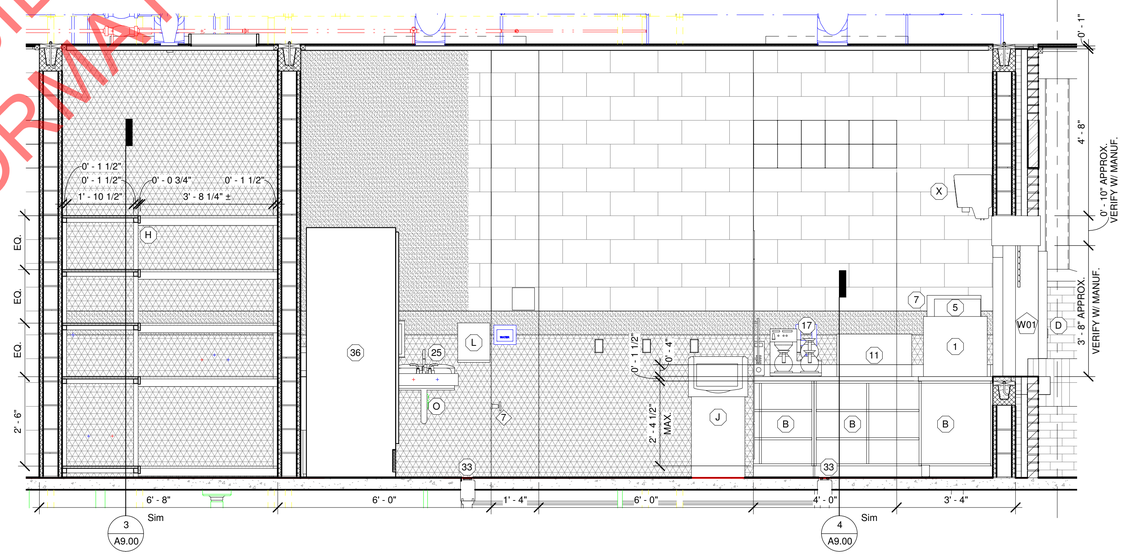
2 A9.02 BLDG. A - CASEWORK ELEVATION 6

1/2" = 1'-0"



3 A9.02 BLDG. A - CASEWORK ELEVATION 7

1/2" = 1'-0"



4 A9.02 BLDG. A - CASEWORK ELEVATION 8

1/2" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

SEAN CHRISTOPHER GUTH
REGISTERED ARCHITECT
AGRICULTURE
02.25.21
NO. 105240
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

NO.	DATE	DESCRIPTION

SHEET TITLE
CASEWORK ELEVATIONS

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY AS, DA	SCALE 1/2" = 1'-0"
CHECKED BY SG	

SHEET NO.
A9.02

DESIGN DATA (IBC 2018)

THE BUILDING STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE.

UNLESS OTHERWISE NOTED, FLOOR FRAMING HAS BEEN DESIGNED UTILIZING LIVE LOAD REDUCTIONS TO THE EXTENT ALLOWED BY THE BUILDING CODE.

ROOF LOADS

LIVE LOAD	20 PSF
DEAD LOAD	20 PSF

WOOD TRUSS LOADS (IN ADDITION TO SELF-WEIGHT):

ROOF TRUSSES

TOP CHORD DEAD LOAD:	10 PSF
TOP CHORD LIVE LOAD:	20 PSF
BOTTOM CHORD DEAD LOAD:	10 PSF

SNOW LOAD DESIGN DATA

1. GROUND SNOW LOAD (PG) = 10 PSF
2. FLAT ROOF SNOW LOAD (PF) = 10 PSF
3. SLOPED ROOF SNOW LOAD (PS) = 10 PSF
4. SNOW EXPOSURE FACTOR (CE) = 0.9
5. THERMAL FACTOR (CT) = 1.0
6. SNOW LOAD IMPORTANCE FACTOR (IS) = 1.0
7. UNBALANCED LOAD PARAMETERS
   a. HD = 1'-6"
   b. γ = 15.3 PCF

WIND LOAD DESIGN DATA

1. ULTIMATE DESIGN WIND SPEED, Vult = 105 MPH
2. NOMINAL DESIGN WIND SPEED, Vasd = 90 MPH
3. WIND LOAD IMPORTANCE FACTOR (IW) = 1.0
4. WIND EXPOSURE = C
5. GROSS WIND PRESSURE (W) BASED ON 10 SQ. FT. TRIBUTARY AREA SHOULD BE AS OUTLINED BELOW AND SHALL BE COMBINED USING THE LOAD COMBINATIONS IN ASCE 7-16 SECTION 2.3.2 TO PRODUCE THE WORST CASE NET LOADING ON THE ELEMENT BEING CONSIDERED. IN NO CASE SHALL THE NET WIND PRESSURE BE LESS THAN 16 PSF (ULITMATE LOAD LEVEL).

   RESTROOM, CONCESSIONS

   a. ROOF ZONE 1 +16.0 PSF, -38.1 PSF
   b. ROOF ZONE 2E +16.0 PSF, -48.7 PSF
   c. ROOF ZONE 2R +16.0 PSF, -61.4 PSF
   d. ROOF ZONE 3 +16.0 PSF, -61.4 PSF
   e. WALL ZONE 4 +21.2 PSF, -23.3 PSF
   f. WALL ZONE 5 +21.2 PSF, -29.6 PSF

   POSITIVE VALUE (+) ARE APPLIED TOWARDS THE SURFACE AND NEGATIVE (-) VALUES ARE APPLIED AWAY FROM THE SURFACE. THE DIMENSION "a" THAT DIFFERENTIATES THE INTERIOR FROM THE EXTERIOR ZONES IS 10 FT

   FOR TRIBUTARY AREAS GREATER THAN 10 SQ. FT. MULTIPLY VALUES SHOWN BY THE REDUCTION FACTORS SHOWN IN ASCE 7-10 TABEL 30.7-2.

EARTHQUAKE DESIGN DATA

1. SHORT PERIOD SPECTRAL RESPONSE (SS) = 0.30
2. 1-SECOND SPECTRAL RESPONSE (S1) = 0.14
3. SEISMIC IMPORTANCE FACTOR (IE) = 1.00
4. OCCUPANCY CATEGORY = II
5. SEISMIC DESIGN CATEGORY = C
6. SITE CLASSIFICATION = C
7. SHORT PERIOD SPECTRAL RESPONSE
   a. COEFFICIENT (SDS) = 0.24
8. 1-SECOND SPECTRAL RESPONSE
   b. COEFFICIENT (SD1) = 0.16
9. BASIC STRUCTURAL SYSTEM / SEISMIC RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC/ORDINARY REINFORCED MASONRY SHEAR WALLS
10. ANALYSIS PROCEDURE UTILIZED = EQUIVALENT LATERAL FORCE PROCEDURE
11. RESPONSE MODIFICATION COEFFICIENT (R) = 3.0/2.0
12. SEISMIC RESPONSE COEFFICIENT (CS) = 0.12/0.08

GENERAL

THE STRUCTURE HAS BEEN DESIGNED SUCH THAT IT IS STABLE IN ITS FINAL STATE. THE DESIGN OF TEMPORARY BRACING, SHORING, TEMPORARY SUPPORTS, ETC. ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCING TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS.

NO PENETRATIONS THROUGH STRUCTURAL ELEMENTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

DELEGATED DESIGN OF BUILDING COMPONENTS

DESIGN OF CERTAIN BUILDING COMPONENTS ARE TO BE COMPLETED BY A SPECIALTY ENGINEER RETAINED BY THE CONTRACTOR. THESE COMPONENTS INCLUDE THE FOLLOWING:

1. STEEL CONNECTIONS
2. METAL PLATE CONNECTED WOOD TRUSSES

THE SPECIALTY ENGINEER SHALL DESIGN THE COMPONENTS AND ASSOCIATED CONNECTIONS PER THE STRENGTH AND SERVICEABILITY REQUIREMENTS INDICATED.

CONCRETE MIX DESIGN SUBMITTAL

THE CONTRACTOR SHALL SUBMIT A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE FOR REVIEW BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL NOT USE ANY CONCRETE WITH A MIX DESIGN OTHER THAN THAT APPROVED FOR THE SPECIFIC APPLICATION WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. SUBMITTALS FOR EACH MIX DESIGN SHALL INCLUDE THE FOLLOWING INFORMATION:

1. UNIQUE MIX IDENTIFICATION AND INTENDED LOCATION OF PLACEMENT.
2. CEMENT TYPE AND QUANTIY IN LBS AND MILL CERTIFICATE FROM MANUFACTURER.
3. FLY ASH TYPE AND QUANTIY IN LBS (WHEN USED) AND MILL CERTIFICATE FROM MANUFACTURE
4. COURSE AGGREGATE QUANTIY IN LBS AT SSD CONDITIONS, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
5. FINE AGGREGATE QUANTITY IN LBS AT SSD CONDITIONS, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER.
6. WATER QUANTITY IN LBS OR GALLONS.
7. ADMIXTURE DOSAGES, PRODUCT NAME(S) AND MANUFACTURER NAME(S).
8. FIBER REINFORCEMENT DOSAGE (WHEN USED), PRODUCT NAME AND MANUFACTURER NAME.
9. DESIGN 28-DAY COMPRESSIVE STRENGTH (F'C).
10. DESIGN PERCENTAGE OF ENTRAINED AIR (WHERE APPLICABLE).
11. DESIGN WATER/CEMENT RATIO
12. STATISTICAL ANALYSIS OF LABORATORY STRENGTH TEST DATA IN ACCORDANCE WITH "STANDARD DEVIATION" DETERMINATION OUTLINED IN ACI 318.

SHOP DRAWING SUBMITTALS

SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND HIS APPLICABLE SUB-CONTRACTORS TO ENABLE THE FABRICATION, INSTALLATION, AND/OR THE ERECTION OF THE APPLICABLE PORTION OF THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER WILL REVIEW THESE SHOP DRAWINGS FOR COMPLIANCE WITH DESIGN INTENT ONLY.

THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES

THE SHOP DRAWINGS WILL NOT BE REVIEWED BY THE STRUCTURAL ENGINEER UNLESS CHECKED BY THE FABRICATOR AND APPROVED BY THE CONTRACTOR. SHOP DRAWINGS THAT DO NOT INCLUDE STAMP OF APPROVAL BY THE CONTRACTOR WILL BE RETURNED UNCHECKED.

SUBMIT ELECTRONIC VERSIONS OF SHOP DRAWINGS TO THE GREATEST EXTENT POSSIBLE. WHERE HARD COPIES ARE SUBMITTED, ONLY ONE COPY OF THE REVIEWED SHOP DRAWING SUBMITTAL WILL BE RETURNED. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:

1. CONCRETE REINFORCEMENT. SHOP DRAWINGS SHALL IDENTIFY ALL SPLICE LOCATIONS AND SPLICE LENGTHS.
2. CONCRETE MASONRY REINFORCEMENT (INCLUDING PLANS AND ELEVATIONS FOR EACH WALL INDICATING ALL CMU REINFORCING REQUIREMENTS)
3. STRUCTURAL STEEL. DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED FOR ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS. A LETTER SHALL ALSO BE PROVIDED BY CONNECTIONS ENGINEER INDICATING THAT THE SUBMITTED SHOP DRAWINGS HAVE ADEQUATELY INCORPORATED THE CONNECTION DESIGNS.
4. PREFABRICATED WOOD TRUSSES INCLUDING DESIGN CALCULATIONS THAT HAVE BEEN SIGNED AND SEALED BY AN ENGINEER REGISTED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS MUST INCLUDE FRAMING LAYOUTS, ERECTION DETAILS, AND REQUIRED TEMPORARY AND PERMANENT BRACING.

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

SUBMIT HARD COPIES OR ELECTRONIC VERSIONS OF PRODUCT DATA. FOR HARD COPY OPTION, SUBMIT A MINIMUM OF TWO COPIES OF PRODUCT DATA TO THE STRUCTURAL ENGINEER FOR REVIEW (ONE COPY SHALL BE RETAINED BY THE STRUCTURAL ENGINEER). FOR ELECTRONIC OPTION, SUBMIT PRODUCT DATA IN ADOBE PDF FORMAT.

1. FIBER REINFORCEMENT FOR CONCRETE
2. DIAMOND PLATE DOWELS FOR SLABS ON GRADE
3. CONCRETE CURING COMPOUND
4. CONCRETE JOINT SEALANT
5. WATER STOPS
6. MASONRY JOINT REINFORCEMENT
7. EXPANSION ANCHORS
8. ADHESIVE ANCHORS
9. NON-SHRINK GROUT
10. WOOD FRAMING CONNECTOR HARDWARE

FOUNDATIONS

FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT NUMBER L&A 18-002 PREPARED BY COLLIER ENGINEERING.

DESIGN NET SOIL PRESSURE:

SPREAD FOOTINGS:	2000 PSF
CONTINUOUS WALL FOOTINGS:	2000 PSF

THE SLAB ON GRADE WAS DESIGNED BASED ON A MODULUS OF SUBGRADE REACTION OF 100 PCI.

FOUNDATIONS AND SOILS RELATED WORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER. WRITTEN FIELD REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER AS SOON AS THEY BECOME AVAILABLE.

CONCRETE

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94

CEMENT SHALL CONFORM TO ASTM C150, TYPE I.

FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F. THE RATIO OF THE AMOUNT (BY WEIGHT) OF FLY ASH TO TOTAL CEMENTITIOUS MATERIALS IN THE MIX SHALL NOT EXCEED 25 PERCENT.

NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.

WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES.

CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS SHALL NOT BE USED.

COLD WEATHER CONCRETING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 306R, COLD WEATHER CONCRETING.

HOT WEATHER CONCRETING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 305R, HOT WEATHER CONCRETING.

NORMAL WEIGHT CONCRETE SHALL BE USED IN THE FOLLOWING AREAS AND SHALL HAVE THE PROPERTIES AS SHOWN BELOW:

FOOTINGS AND MATS AND GRADE BEAMS

1. COMPRESSIVE STRENGTH (28 DAYS): 4500 PSI
2. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.45
3. MAXIMUM COARSE AGGREGATE SIZE: 1-1/2 INCHES
4. AIR CONTENT: 6% +/- 1.5%

ENTRANCE PLATFORMS, RETAINING WALLS, AND CURBS / SIDEWALKS / EXTERIOR SLABS EXPOSED TO DE-ICERS

1. COMPRESSIVE STRENGTH (28 DAYS): 4500 PSI
2. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.45
3. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
4. AIR CONTENT: 6% +/- 1.5%
5. MAX PERCENT FLYASH: 25%

INTERIOR SLABS ON GRADE

1. COMPRESSIVE STRENGTH (28 DAYS): 3000 PSI
2. MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.50
3. MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
4. AIR CONTENT: N/A

CONCRETE SLABS ON GRADE

SLABS ON GRADE SHALL BE INSTALLED IN ACCORDANCE WITH THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R), LATEST EDITION.

THE METHOD OF CONCRETE PLACEMENT SHALL PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE WATER ON SLAB SURFACE TO AIDE IN FINISHING.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISSIPATING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C309, UNLESS NOTED OTHERWISE.

FOR WAREHOUSE SLABS ON GRADE, USE ASHFORD FORMULA CURING/SEALING COMPOUND. APPLY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS IMMEDIATELY FOLLOWING FINISHING OPERATIONS.

SLABS ON GRADE SHALL RECEIVE A SMOOTH TROWEL FINISH, AND BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM TOLERANCES:

OVERALL VALUES:	FF = 25 FL = 20
LOCAL VALUES:	FF = 20 FL = 15

THE MINIMUM LOCAL AREA SHALL BE ANY BAY DEFINED BY COLUMN LINES.

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. PROVIDE JOINTS AT ALL COLUMN LOCATIONS. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.

REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 301, ACI 315, ACI 318 AND ACI DETAILING MANUAL (SP66).

PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
#6 BARS AND LARGER EXPOSED TO EARTH OR WEATHER:	2 INCHES
#5 BARS AND SMALLER EXPOSED TO EARTH OR WEATHER:	1-1/2 INCHES
BEAM AND COLUMN TIES, STIRRUPS AND SPIRALS:	1-1/2 INCHES
ELEVATED SLAB BARS NOT EXPOSED TO EARTH OR WEATHER:	3/4 INCH

DO NOT WELD, HEAT OR CUT REINFORCING BARS UNLESS REQUIRED BY THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER

LAP SPLICE LENGTHS SHALL CONFORM WITH THE CLASS "B" LAP AS DEFINED BY THE LATEST EDITION OF ACI 318.

REINFORCING BARS SHALL BE PLACED WITHIN ¼" OF THE SPECIFIED LOCATION FOR MEMBERS 10 INCHES THICK OR LESS AND WITHIN ½" OF THE SPECIFIED LOCATION FOR MEMBERS IN EXCESS OF 10 INCHES THICK.

ALL 90 DEGREE AND 180 DEGREE BENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS, UNLESS NOTED OTHERWISE.

PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT CORNERS OF ALL WALLS AND GRADE BEAMS. PROVIDE CLASS B LAP SPLICES OF THE CORNER BARS WITH STRAIGHT BARS.

UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE 2-#5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO THE SIDES OF THE OPENING AND EXTEND 24" BEYOND CORNERS.

WELDED WIRE MESH (WWM)

WELDED WIRE MESH SHALL BE SMOOTH WIRE CONFORMING TO ASTM A185 AND IT MESH SHALL BE SUPPLIED IN FLAT SHEETS. INDIVIDUAL SHEETS SHALL BE LAPPED AT LEAST ONE SPACE OR 6 INCHES, WHICHEVER IS GREATER.

WELDED WIRE MESH SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE:

SLABS ON GRADE:	2 INCHES DOWN FROM TOP OF SLAB
SLABS ON METAL DECK:	3/4 INCH DOWN FROM TOP OF SLAB.

CONCRETE TESTING

MAKE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH DAY'S POUR AND FOR EACH 100 CUBIC YARDS. EACH SET SHALL INCLUDE ONE SPECIMEN TESTED AT 7 DAYS, 2 SPECIMENS TESTED AT 28 DAYS AND ONE SPECIMEN RETAINED IN RESERVE TO BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER.

WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES DURING THE COURSE OF A CONCRETE POUR OR SUBSEQUENT CURING PROCESS, AN ADDITIONAL SET OF CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED. THESE CYLINDERS SHALL BE STORED IMMEDIATELY ADJACENT TO, AND CURED UNDER THE SAME CONDITIONS AS THE BUILDING CONCRETE. SPECIAL CURING BOXES ARE NOT PERMITTED FOR THESE TEST CYLINDERS.

CONCRETE MASONRY

CONCRETE MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530).

CONCRETE MASONRY SHALL CONSIST OF HOLLOW UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI. CONCRETE MASONRY ASSEMBLAGES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FM) OF 1,500 PSI AT 28 DAYS.

PROPORTIONING OF MORTAR SHALL BE IN ACCORDANCE WITH ASTM C270.

MORTAR USED IN CONCRETE MASONRY UNITS SHALL BE TYPE S

GROUT FOR REINFORCED MASONRY SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476. COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C404. USE COARSE GROUT FOR ALL GROUTING EXCEPT HIGH-LIFT POURS DEFINED BY ACI 530-05 TABLE 1.16.1, WHERE FINE GROUT SHALL BE USED.

PLACE GROUT IN LIFTS NOT TO EXCEED 5 FEET UNLESS HIGH LIFT GROUTING PROCEDURES ARE SUBMITTED FOR APPROVAL. GROUT SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS AND THE NEXT LIFT SHALL BE PLACED WHILE THE PREVIOUS LIFT IS STILL PLASTIC.

PROVIDE MINIMUM 9-GAUGE GALVANIZED STEEL WIRE JOINT REINFORCEMENT IN ALL MASONRY CONSTRUCTION. REINFORCEMENT SHALL BE SPACED AT 16 INCHES ON CENTER EXCEPT AT PARAPETS AND BELOW GRADE WHERE IT SHALL BE SPACED AT 8 INCHES ON CENTER OR IN LOCATIONS OTHERWISE IDENTIFIED ON THESE DRAWINGS. REINFORCEMENT SHALL BE CONTINUOUS AND IT SHALL BE LAPPED EIGHT INCHES AT SPLICES. REINFORCEMENT SHALL NOT EXTEND THROUGH CONTROL AND EXPANSION JOINTS.

CONCRETE MASONRY LINTELS SHALL BEAR A MINIMUM OF 8 INCHES ONTO SUPPORTING MASONRY, UNLESS NOTED OTHERWISE. BEARING FOR ALL BEAMS, LINTELS, JOISTS, ETC. SHALL BE GROUTED SOLID A MINIMUM OF ONE COURSE (8 INCHES) BELOW BEARING ELEVATION, UNLESS NOTED OTHERWISE.

PROVIDE MASONRY CONTROL JOINTS AT 30'-0" OC MAXIMUM, UNO. LOCATE JOINTS IN ACCORDANCE WITH NCMA TEK 10-2C "CONTROL JOINTS FOR CONCRETE MASONRY WALLS – EMPIRICAL METHOD".

ALL VERTICAL REINFORCING SHALL BE LOCATED IN THE CENTER OF CORE UNLESS NOTED OTHERWISE AND SHALL BE SPLICED WITH DOWELS OF THE SAME SIZE AND SPACING FROM THE FOUNDATION. SPLICE LENGTHS FOR VERTICAL REINFORCING SHALL BE IN ACCORDANCE WITH THE MASONRY SPLICE CHART.

PROVIDE BOND BEAMS WITH 2-NO 5 CONTINUOUS BARS AT THE TOP OF ALL PARAPETS, FOUNDATION WALLS, AT THE BOTTOM OF ALL WALL OPENINGS AND WHERE SHOWN ON THESE DRAWINGS.

MASONRY SHALL BE LAID IN RUNNING BOND UNO

BRICK VENEER MASONRY

PROVIDE EXPANSION JOINTS IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

IF BRICK EXPANSION JOINT LOCATIONS ARE NOT INDICATED ON THE ARCHITECTURAL DRAWINGS OR IN THE SPECIFICATIONS, SUBMIT PROPOSED EXPANSION JOINT LOCATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. UNLESS INDICATED OTHERWISE, PROVIDE EXPANSION JOINTS AT 20'-0" OC MAXIMUM. LOCATE JOINTS IN ACCORDANCE WITH BIA TECHNICAL NOTE 18A "ACCOMMODATING EXPANSION OF BRICKWORK" AT OFFSETS, SETBACKS, WALL INTERSECTIONS, CORNERS, CHANGES IN THICKNESS, CHANGES IN HEIGHT, OR EDGES OF OPENINGS.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE HILTI "KWIK BOLT TZ" OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

ANCHOR FINISH SHALL BE CARBON STEEL FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES, UNO.

ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

ANCHORS SHALL NOT BE INSTALLED IN CONCRETE OR MASONRY UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.

ADHESIVE ANCHORS FOR SOLID SUBSTRATES

ADHESIVE ANCHORS FOR SOLID SUBSTRATES SHALL BE HILTI "HIT-HY 200" OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

ANCHORS SHALL BE ASTM A36 THREADED RODS FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES, UNO.

ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

ADHESIVE ANCHORS SHALL NOT BE INSTALLED IN CONCRETE OR MASONRY UNTIL IT HAS ATTAINED ITS SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.

MINIMUM EMBEDMENT DEPTH SHALL BE 8 BOLT DIAMETERS UNLESS NOTED OTHERWISE.

ADHESIVE ANCHORS FOR HOLLOW SUBSTRATES

ADHESIVE ANCHORS FOR HOLLOW SUBSTRATES SHALL BE HILTI "HIT-HY 70" WITH HILTI "HIT-SC" SCREEN TUBE OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

ANCHORS SHALL BE ASTM A36 THREADED RODS FOR INTERIOR EXPOSURES AND AISI 316 STAINLESS STEEL FOR EXTERIOR AND BELOW GRADE EXPOSURES, UNO.

ANCHORS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS BY INSTALLERS TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

NON-SHRINK GROUT

GROUT SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRD-C621), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'C) OF 5,000 PSI IN 28 DAYS.

TRAMMELL Engineering Group
401 West Main Street, Suite 204 · Lebanon, TN 37087 · 615-784-4475

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL · REGISTERED ENGINEER · 107961 · STATE OF TENNESSEE
Matthew S. Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
GENERAL NOTES

PROJECT NO. 18062-1	DATE 02/25/21
DRAWN BY RA	SCALE
CHECKED BY MT	

SHEET NO.
S0.1

GENERAL NOTES CONT'D

MASTIC COATING

MASTIC COATING FOR PROTECTION OF INDICATED ITEMS SHALL BE BITUMASTIC 50 COAL TAR MASTIC BY CARBOLINE OR EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER. INSTALL AT LOCATIONS INDICATED ON DRAWINGS.

UNLESS NOTED OTHERWISE, APPLY MASTIC TO A COATING THICKNESS OF 18 MILS. PROVIDE FULL COVERAGE OVER ITEMS INDICATED TO RECEIVE COATING.

STRUCTURAL STEEL

STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION AND AMENDMENTS, AND THE AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, LATEST EDITION AND AMENDMENTS.

STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992.

STRUCTURAL STEEL PLATES AND ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL SQUARE AND ROUND TUBES SHALL CONFORM TO ASTM A500, GRADE B.

STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B.

STRUCTURAL STEEL ROD HANGERS AND BRACING SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE.

BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION. BOLTED CONNECTIONS FOR STRUCTURAL STEEL MEMBERS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS, UNLESS NOTED OTHERWISE. BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION, EXCEPT BOLTED CONNECTIONS IN BRACE ELEMENTS ARE TO BE FULLY PRETENSIONED WITH CLASS A FAYING SURFACES.

WELDING PROCEDURES SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE FOR STEEL ANSI/AWS D1.1.

WELDED CONNECTIONS USING ASTM A992 STEEL AS A BASE METAL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, OTHER WELDED CONNECTIONS MAY BE MADE WITH STANDARD E70XX ELECTRODES.

STRUCTURAL STEEL THAT RECEIVES FINISH PAINT SHALL BE SHOP-PRIMED WITH A RUST-INHIBITING PRIMER, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRIMER IS COMPATIBLE WITH FINISH COAT SYSTEM SPECIFIED BY THE ARCHITECT. COORDINATE FINISH PAINTING REQUIREMENTS WITH THE ARCHITECT.

STRUCTURAL STEEL THAT IS NOT EXPOSED IN THE FINISHED CONSTRUCTION AND DOES NOT RECEIVE FINISH PAINT SHALL NOT BE SHOP-PRIMED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

STRUCTURAL STEEL NOTED TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM A123.

DO NOT PAINT OR GALVANIZE THE FOLLOWING SURFACES:
1. SURFACES TO BE WELDED.
2. SURFACES TO RECEIVE BOLTED SLIP-CRITICAL CONNECTIONS.
3. SURFACES TO RECEIVE SHEAR STUD CONNECTIONS.
4. SURFACES TO RECEIVE SPRAYED-ON FIREPROOFING.

ALL ABRASIONS TO GALVANIZED SURFACES OR SURFACES TO RECEIVE AN ARCHITECTURAL FINISH COAT SHALL BE TOUCHED-UP AFTER ERECTION IS COMPLETE. FOR PAINTED STEEL, USE A PRIMER EQUIVALENT TO THE SHOP PAINT. FOR GALVANIZED STEEL, USE A ZINC-RICH COLD-GALVANIZING PAINT.

DESIGN CONNECTIONS NOT SHOWN IN ACCORDANCE WITH THE LRFD SPECIFICATION AND MANUAL OF STEEL CONSTRUCTION. UNLESS NOTED OTHERWISE ON THE DRAWINGS, DESIGN BEAM CONNECTIONS NOT SHOWN, TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD-CARRYING CAPACITY OF THE BEAM. PROVIDE NO LESS THAN 2 BOLTS IN ANY SINGLE LINE OF BOLTS, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.

PROVIDE L4X4X1/4 FRAMED OPENINGS FOR ALL ROOF PENETRATIONS 12 INCHES OR LARGER ALONG ANY SIDE, UNLESS LARGER FRAMING IS INDICATED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR PENETRATIONS. COORDINATE FRAMED OPENING SIZES AND LOCATIONS WITH THE MECHANICAL AND PLUMBING CONTRACTORS.

SEPARATION OF DISSIMILAR METALS

DISSIMILAR METALS SHALL BE ELECTRICALLY ISOLATED TO PREVENT GALVANIC CORROSION VIA NON-CONDUCTIVE WASHERS, GASKETS, COATINGS, OR EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.

STRUCTURAL WOOD

STRUCTURAL WOOD SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE AMERICAN FOREST AND PAPER ASSOCIATION (AFPA).

STRUCTURAL WOOD FRAMING SHALL BE NO. 2 SOUTHERN PINE OR BETTER, EXCEPT WALL STUDS SHALL BE STUD GRADE SOUTHERN PINE OR BETTER, UNLESS NOTED OTHERWISE.

PROVIDE 2X STUD BLOCKING BETWEEN ALL WALL STUDS AT MID HEIGHT OR SUCH THAT THE UNBRACED THE LENGTH OF THE WALL STUDS DOES NOT EXCEED 10 FEET.

SILL PLATES AND OTHER WOOD MEMBERS BEARING DIRECTLY ON CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED NO. 2 SOUTHERN PINE OR BETTER.

SILL PLATES SHALL BE SECURED WITH BOLTS NOT LESS THAN ½" DIAMETER EMBEDDED AT LEAST 7 INCHES INTO THE CONCRETE OR MASONRY AND SPACED NOT MORE THAN 6 FEET APART. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES OR LESS THAN 4 INCHES FROM THE END OF EACH PIECE.

NAILS AND OTHER WOOD FASTENERS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

BOLTS AND LAG SCREWS IN CONNECTIONS OF WOOD MEMBERS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE. STANDARD CUT WASHERS SHALL BE USED BETWEEN THE WOOD AND BOLT HEAD AND THE WOOD AND NUT.

JOIST HANGERS, HOLD-DOWNS, AND ALL OTHER WOOD CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER. INSTALL THE EXACT QUANTITY, SIZE, MATERIAL, TYPE AND FINISH OF FASTENERS AS INDICATED IN THE CONNECTOR MANUFACTURER'S PRODUCT DATA, UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE ON THE DRAWINGS. ALL WOOD MEMBERS SHALL BE SECURED PER THE NAILING SCHEDULE IN THE ABOVE REFERENCED BUILDING CODE

ALL FASTENERS AND WOOD CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD SHALL BE HOT-DIP GALVANIZED UNLESS A MORE STRINGENT REQUIREMENT IS NOTED ON THE DESIGN DOCUMENTS.

PREFABRICATED WOOD TRUSSES

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC), THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE AMERICAN FOREST AND PAPER ASSOCIATION (AFPA) AND IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION BY THE TRUSS PLATE INSTITUTE (TPI).

TEMPORARY AND PERMANENT BRACING OF WOOD TRUSSES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TPI PUBLICATIONS BRACING OF WOODEN TRUSSES, SPECIFICATIONS FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, AND BCSI 1-03 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.

TRUSSES SHALL CONFORM TO THE GEOMETRY SHOWN ON THE DRAWINGS. ALL OVERBUILD AREAS SHALL BE PART OF THE ENGINEERED TRUSS SYSTEM AND SHALL BE DESIGNED AND DETAILED ON THE TRUSS SHOP DRAWINGS.

WOOD TRUSSES SHALL BE DESIGNED USING THE FOLLOWING ALLOWABLE STRESS INCREASE FACTORS:
DEAD LOAD + ROOF LIVE LOAD/SNOW LOAD: 1.15
DEAD LOAD + WIND LOAD: 1.6
DEAD LOAD + ROOF LIVE LOAD/SNOW LOAD + WIND LOAD: 1.6

PLYWOOD

PLYWOOD PANELS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST CRITERIA ESTABLISHED BY THE AMERICAN PLYWOOD ASSOCIATION (APA) INCLUDING THE LATEST EDITION OF THE PLYWOOD DESIGN SPECIFICATION AND ITS SUPPLEMENTS.

PLYWOOD PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE APA AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARD PS 1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD OR THE APA PRP-108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL-USE PANELS.

ROOF AND FLOOR PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION (FACE GRAIN) ACROSS THE SUPPORTS WITH PANELS CONTINUOUS OVER 2 OR MORE SUPPORTS.

STAGGER PANEL END JOINTS. END JOINTS SHALL ONLY OCCUR OVER A SUPPORT. UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUFACTURER, PROVIDE A 1/8" GAP BETWEEN PANEL ENDS AND EDGES. PANEL EDGES SHALL BE TONGUE-AND-GROOVE OR SUPPORTED ON 2" (NOMINAL) LUMBER BLOCKING INSTALLED BETWEEN JOISTS.

SPECIAL INSPECTION

SPECIAL INSPECTION IS A MANDATORY REQUIREMENT OF THE GENERAL CONTRACTOR FOR VERIFYING CONFORMANCE OF THE INDICATED CONSTRUCTION. SPECIAL INSPECTION IS REQUIRED IN ADDITION TO ALL MATERIAL TESTS AND INSPECTIONS IDENTIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
THE GENERAL CONTRACTOR SHALL EMPLOY INDEPENDENT AGENCY(IES) OR INDIVIDUAL(S) TO PROVIDE SPECIAL INSPECTION FOR ITEMS AS INDICATED ON THE DRAWINGS.
THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON, WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER, FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
"PERIODIC" SPECIAL INSPECTION IS DEFINED AS "THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK."
"CONTINUOUS" SPECIAL INSPECTION IS DEFINED AS "THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED."
THE GENERAL CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR REVIEW A MINIMUM OF 14 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF ELEMENTS REQUIRING SPECIAL INSPECTION THE FOLLOWING:
1. NAME(S), ADDRESS(ES), TELEPHONE NUMBER(S), EMAIL ADDRESS(ES), AND STATEMENT(S) OF QUALIFICATIONS OF ALL SPECIAL INSPECTOR(S) TO BE ENGAGED ON THE PROJECT.
2. A LISTING OF ALL ITEMS TO RECEIVE SPECIAL INSPECTION, DESIGNATION WHETHER INSPECTION WILL BE CONTINUOUS OR PERIODIC AND THE NAME OF THE INDIVIDUAL THAT WILL BE PERFORMING INSPECTION FOR EACH ITEM.

THE CONTRACTOR SHALL COORDINATE WITH THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF WORK REQUIRING SPECIAL INSPECTION AND SHALL PROVIDE ACCESS TO THE SITE AND TO THE CONSTRUCTION DOCUMENTS (CURRENT DRAWINGS AND SPECIFICATIONS) FOR THE SPECIAL INSPECTOR CARRY OUT THE REQUIRED OPERATIONS.
THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK REQUIRING SPECIAL INSPECTION FOR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.
THE SPECIAL INSPECTOR SHALL SUBMIT PERIODIC PROGRESS REPORTS TO THE CONTRACTOR AND STRUCTURAL ENGINEER IDENTIFYING ALL SPECIAL INSPECTION OPERATIONS PERFORMED. REPORTS SHALL BE SUBMITTED NO MORE THAN 7 DAYS FOLLOWING EACH SPECIAL INSPECTION OPERATION. REPORTS SHALL IDENTIFY THE ITEM(S) INSPECTED AND AN INDICATION OF WHETHER THE INSPECTED ITEMS WERE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
AT THE COMPLETION OF ALL WORK REQUIRING SPECIAL INSPECTION, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE CONTRACTOR AND STRUCTURAL ENGINEER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
FAILURE TO PERFORM SPECIAL INSPECTION FOR THE INDICATED CONSTRUCTION OR FAILURE TO CORRECT NON-CONFORMING WORK SHALL CONSTITUTE A BASIS FOR REJECTION OF THE WORK AND REMOVAL AND REPLACEMENT BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, INCLUDING, BUT NOT LIMITED TO:
1. THE COST OF REMOVAL AND REPLACEMENT OF ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED, INCLUDING THE COST OF TESTING AND SPECIAL INSPECTION FOR THE REPLACEMENT WORK.
2. THE COST OF ALL RELATED WORK MADE NECESSARY BY THE REMOVAL AND REPLACEMENT OF THE UNINSPECTED WORK PER ITEM 1 ABOVE.
3. THE COST FOR DESIGN PROFESSIONAL'S SERVICES RELATED TO ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED AND SERVICES RELATED TO THE REPLACEMENT WORK.

PROVIDE SPECIAL INSPECTION FOR THE FOLLOWING CONSTRUCTION:

STRUCTURAL STEEL
SOILS

SEE TABLE(S) ON THE DRAWINGS FOR SPECIAL INSPECTION PROGRAM REQUIREMENTS.

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED ENGINEER
No. 107961
STATE OF TENNESSEE
Matthew S Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
GENERAL NOTES

PROJECT NO. 18062-1	DATE 02/25/21
DRAWN BY RA	SCALE
CHECKED BY MT	
SHEET NO. S0.2	

Statement of Special Inspections

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspector to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines:

Structural

The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

This Statement of Special Inspections includes the following building systems:
Soils
Structural Steel Construction
Masonry Construction Level A

SPECIAL INSPECTION SCHEDULE: STRUCTURAL STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: A IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	X	-	X
B MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	X	-	X
2. INSPECTION OF HIGH-STRENGTH BOLTING: A SNUG-TIGHT JOINTS.	X	-	X
B PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	-	-	X
C PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	-	X	-
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL: A IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS AND AISC 360.	X	-	X
B MANUFACTURER'S CERTIFIED TEST REPORTS	X	-	X
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: A IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	X	-	X
B MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	X	-	X
5. INSPECTION OF WELDING, STRUCTURAL STEEL: A COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	X	-
B MULTIPASS FILLET WELDS.	-	X	-
C SINGLE-PASS FILLET WELDS > 5/16"	X	X	-
D SINGLE-PASS FILLET WELDS ≤ 5/16"	X	-	X
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: A DETAILS SUCH AS BRACING AND STIFFENING.	-	-	X
B MEMBER LOCATIONS.	X	-	X
C APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	-	X

SPECIAL INSPECTION SCHEDULE: SOILS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY	
		CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	-	X
4. VERIFY USE OF PROPER MATERIALS DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X	-	X

SPECIAL INSPECTION SCHEDULE: MASONRY CONSTRUCTION - LEVEL A

MINIMUM TESTS
NONE
MINIMUM INSPECTION
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 · Lebanon, TN 37087 · 615-784-4475

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL · REGISTERED ENGINEER · 107961 · STATE OF TENNESSEE
Matthew S. Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
SPECIAL INSPECTIONS

PROJECT NO.	DATE
18062-1	02/25/21
DRAWN BY: RA	SCALE: As indicated
CHECKED BY: MT	

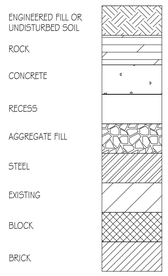
SHEET NO.
S0.3

ABBREVIATIONS

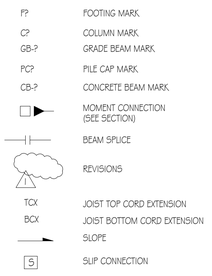
(FOR STRUCTURAL DRAWINGS ONLY)

AB	ANCHOR BOLT	E.W.	EACH WAY	PED.	PEDESTAL
A.F.F.	ABOVE FINISHED FLOOR	EXIST.	EXISTING	PC	PILE CAP
ALT.	ALTERNATE	EXP.	EXPANSION	P/L.F.	POUNDS PER LINEAR FOOT
ALUM.	ALUMINUM	EXT.	EXTERIOR	PLYWD.	PLYWOOD
ANCH.	ANCHOR	FOUND.	FOUNDATION	P.S.F.	POUNDS PER SQUARE FOOT
APPROX.	APPROXIMATE	FIN. FL.	FINISHED FLOOR	P.S.I.	POUNDS PER SQUARE INCH
ARCH.	ARCHITECT/ARCHITECTURAL	FIN.	FINISHED	PSL	PARALLEL STRAND LUMBER
BLDG.	BUILDING	FL.	FLOOR	PT	PRESSURE TREATED WOOD
BLKG.	BLOCKING	FLGS.	FLANGES	P/T	POST-TENSION
BM.	BEAM	FRMG.	FRAMING	RAD.	RADIUS
BOTT.	BOTTOM	FT.	FOOT	REINF.	REINFORCED
BRG.	BEARING	FTG.	FOOTING	REQD.	REQUIRED
BOS	BOTTOM OF STEEL	F.V.	FIELD VERIFY	RET.	RETAINING
BOW	BOTTOM OF WALL	GA.	GAUGE	RTU	ROOF TOP UNIT
CJ	CONTROL JOINT	GALV.	GALVANIZED	SCHED.	SCHEDULE
℄	CENTER LINE	GB	GRADE BEAM	SECT.	SECTION
CL.	CLEAR	GC	GENERAL CONTRACTOR	SER.	STRUCTURAL ENGINEER OF RECORD
C.M.U.	CONCRETE MASONRY UNIT	GR.	GRADE	SHT.	SHEET
COL.	COLUMN	HC	HOLLOW CORE	SIM.	SIMILAR
COMP.	COMPOSITE	HD. STUDS	HEADED STUDS	SP.	SPACE
CONC.	CONCRETE	HSB	HIGH STRENGTH BOLTS	SPECS.	SPECIFICATIONS
CONN.	CONNECTION	HT.	HEIGHT	STIFF.	STIFFENER
CONST.	CONSTRUCTION	HORZ.	HORIZONTAL	STD.	STANDARD
CONT.	CONTINUOUS	HSS	HOLLOW STRUCTURAL SECTION	STL.	STEEL
CONTR.	CONTRACTOR	JST. BRG.	JOIST BEARING	STRUC.	STRUCTURAL
COOR.	COORDINATE	JT.	JOINT	T.O.BM	TOP OF BEAM
CJ	CONSTRUCTION JOINT	KLF	KIPS PER LINEAR FOOT	T.O.COL	TOP OF COLUMN
DB.	BAR DIA.	KSF	KIPS PER SQUARE FOOT	T.O.CONC	TOP OF CONCRETE
DBA	DEFORMED BAR ANCHORS	LB.	POUND	TODS	TOP OF DRILL SHAFT
DBL.	DOUBLE	LL	LIVE LOAD	T.O.FTG	TOP OF FOOTING
DTL.	DETAIL	L.L.H.	LONG LEG HORIZONTAL	T.O.JST	TOP OF JOIST
DIA. or ▯	DIAMETER	L.L.V.	LONG LEG VERTICAL	T.O.PC	TOP OF PILE CAP
DIAG.	DIAGONAL	LT. WT.	LIGHT WEIGHT	T.O.SLAB	TOP OF SLAB
DIM.	DIMENSION	LVL	LAMINATED VENEER LUMBER	T.O.STL	TOP OF STEEL
DL	DEAD LOAD	MAS.	MASONRY	T.O.W	TOP OF WALL
DN.	DOWN	MAX.	MAXIMUM	TYP.	TYPICAL
DP	DRILLED PIER	MECH.	MECHANICAL	U.N.O.	UNLESS NOTED OTHERWISE
DS	DRILLED SHAFT	MANUF.	MANUFACTURER	VERT.	VERTICAL
DWL.	DOWELS	MIN.	MINIMUM	WP	WORKING POINT
DWGS.	DRAWINGS	MISC.	MISCELLANEOUS	W.W.F.	WELDED WIRE FABRIC
EA.	EACH	MO	MASONRY OPENING		
E.O.A.	EDGE OF ANGLE	MOM.	MOMENT		
E.O.B.P.	EDGE OF BENT PLATE	MTL.	METAL		
E.F.	EACH FACE	NO.	NUMBER		
EJ	EXPANSION JOINT	N.T.S.	NOT TO SCALE		
ELEV.	ELEVATION	OC	ON CENTER		
EMBED.	EMBEDMENT	OD	OVERFLOW DRAIN		
ENG.	ENGINEER	OPNG.	OPENING		
EQ.	EQUAL	OSF	OUTSIDE FACE		
		P.C.F.	POUNDS PER CUBIC FOOT		

HATCH LEGEND



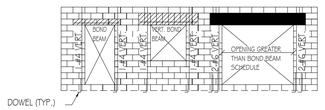
SYMBOL LEGEND



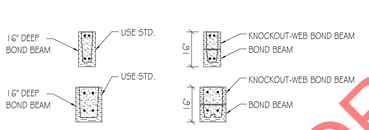
BOND BEAM SCHEDULE

WALL	OPENINGS	BOND BEAM	REINF. BARS	REMARKS
6"	TO 6'-8"	8"	1-#4	
8"	TO 4'-0"	8"	2-#4	
	4'-1" TO 6'-0"	16"	1-#5 TOP & BOTT.	
	6'-0" TO 8'-0"	16"	1-#5 TOP & BOTT.	
	8'-0" TO 10'-0"	16"	1-#6 TOP & BOTT.	
	10'-0" TO 12'-0"	16"	1-#7 TOP & BOTT.	
10"	TO 4'-0"	8"	2-#5	
	4'-1" TO 7'-0"	16"	2-#5 TOP & BOTT.	
12"	TO 3'-6"	8"	2-#5	
	3'-6" TO 8'-0"	16"	2-#5 TOP & BOTT.	
	8'-0" TO 10'-0"	16"	2-#6 TOP & BOTT.	
	10'-0" TO 12'-0"	16"	2-#7 TOP & BOTT.	

NOTES:
1. 8" BEARING EACH END (MIN.) FOR LINTELS < 4'-0", USE 1'-4" BEARING FOR LINTELS > THAN 4'-0"
2. GROUT SOLID WITH 3000 P.S.I. CONCRETE. 3. KEEP SHORED UNTIL LINTEL HAS ACHIEVED DESIGN STRENGTH.

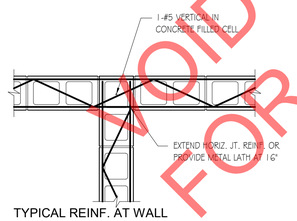


NOTE: VERTICAL BARS AT OPENINGS SHALL MATCH WALL REINFORCING WHEN WALL REINFORCING IS GREATER THAN # 4 BAR. GROUT BLOCK SOLID AT REINFORCING AND EXTEND REINFORCING TO TOP OF WALL)



CONTRACTOR OPTION

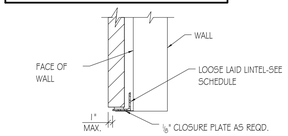
14 TYPICAL REINFORCING AT CMU OPENINGS
3/4" = 1'-0"



10 TYPICAL REINF. AT WALL INTERSECTION
3/4" = 1'-0"

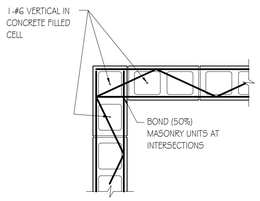
LOOSE LINTEL SCHEDULE

SPAN	ANGLE SIZE
UP TO 4'-0"	L6 x 4 x 5/16
4'-1" TO 8'-8"	L6 x 4 x 3/8
NOTE: MIN. 8" BRG. EACH END	

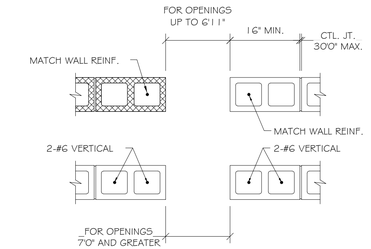


NOTE:
ALL BRICK ANGLES SHALL BE GALVANIZED

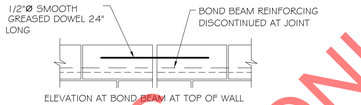
15 LOOSE LINTEL DETAIL
3/4" = 1'-0"



11 TYPICAL REINF. AT WALL CORNER
3/4" = 1'-0"

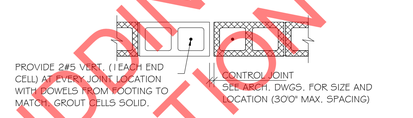


13 MASONRY VERTICAL REBAR AT OPENINGS
3/4" = 1'-0"

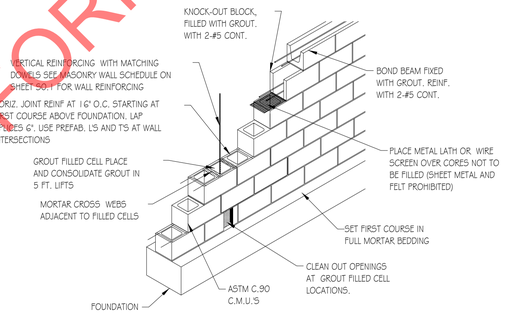


SEE MASONRY SPEC. FOR MASONRY CONTROL JOINTS AT CORNER AND WALL INTERSECTION.

CONTROL JOINTS SHALL BE LOCATED 1'-6" MIN. FROM WALL OPENINGS.

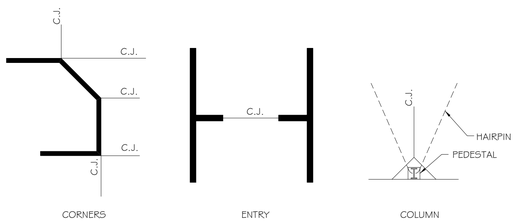


12 CONTROL JOINT DETAIL IN CMU WALL
3/4" = 1'-0"



7 TYP. MASONRY WALL CONSTRUCTION
3/4" = 1'-0"

NOTE: IT IS IMPERATIVE THAT THE CONTRACTOR OBTAIN ACI-302 AND UNDERSTAND SLAB CONST. AND PROPER JOINTING AS DESCRIBED THERE IN. SEE GENERAL NOTES FOR MAXIMUM SPACING. (TYPICAL)



8 TYPICAL CONTROL JOINTS
3/4" = 1'-0"

COLUMN SCHEDULE

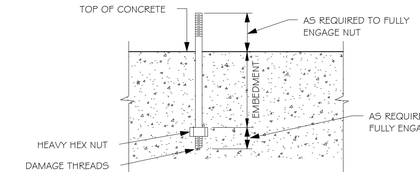
MARK	SIZE	BASE PLATE	ANCHOR BOLTS	REMARKS
C1	HSS 6x6x3/8"	3/4"x12"x12"	4- 3/4" Ø	
C2	HSS 6x6x5/16"	3/4"x12"x12"	4- 3/4" Ø	
C3	HSS 4x4x5/16"	3/4"x10"x10"	4- 3/4" Ø	
C4	HSS 3x0.25"	3/4"x9"x9"	4- 3/4" Ø	

FOOTING SCHEDULE

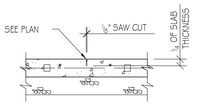
MARK	TYPE	REINFORCING	ANCHOR BOLT EMBED.
F1	NOT USED	--	-"
F2	5'-0" x 5'-0" x 1'-0"	6- #5 E.W. - TOP & BOTTOM	9"
F24	2'-0" x 1'-0" x CONTINUOUS	3- #5 ON #5 AT 12"	
F48	4'-0" x 1'-0" x CONTINUOUS	5- #5 ON #5 AT 12"	

MASONRY WALL SCHEDULE

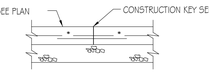
MARK	THICKNESS	REINFORCING
MW1	8"	#5 AT 48"
MW2	8"	#6 AT 24"
MW3	12"	#5 AT 48"



5 ANCHOR BOLT EMBED DETAIL
1 1/2" = 1'-0"



CONTROL JOINT DETAIL AT SLAB ON GRADE



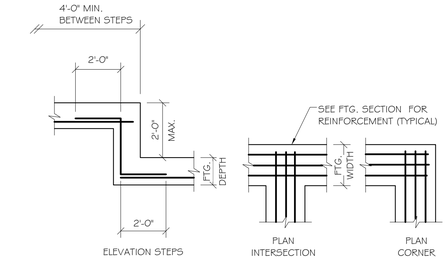
CONSTRUCTION JOINT DETAIL AT STOP AND START OF EACH POUR

NOTES:
FLOOR SLAB CONTROL AND CONSTRUCTION JOINTS: FILL CONTROL JOINTS TO FULL DEPTH OF SAW-CUT WITH SPECIFIED FILLER. FILL CONSTRUCTION JOINTS WITH FINE SAND TO DEPTH OF 2". FILL REMAINDER OF JOINT WITH SPECIFIED FILLER. FILLER SHALL BE METZGER/MCGUIRE MM-80 SEMI RIGID EPOXY FILLER OR EQUAL.

CONSTRUCTION JOINTS: PRIOR TO FLOOR SLAB BEING POURED, CONTRACTOR TO SUBMIT POUR SEQUENCE FOR REVIEW BY A/E.

USE EXPANDO-LOK DOWEL AND TIE BAR CLIP ON WITH #6 AT 24" x 1'-6" LONG, SMOOTH DOWEL BAR, ALTERNATIVELY, USE #6 AT 24" x 1'-6" LONG SMOOTH BAR WITH SLIP TUBE AT ON END. TURN BAR IN WET CONCRETE. PLACE BAR PRECISELY AT 90° AT EDGE OF SLAB.

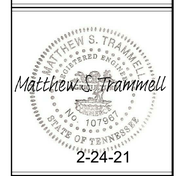
6 CONSTRUCTION AND CONTROL JOINTS
3/4" = 1'-0"



9 TYPICAL FOOTING DETAILS
3/4" = 1'-0"

TRAMMELL Engineering Group
401 West Main Street, Suite 204 · Lebanon, TN 37087 · 615-784-4475

LOSE DESIGN SPACES FOR LIFE.



FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

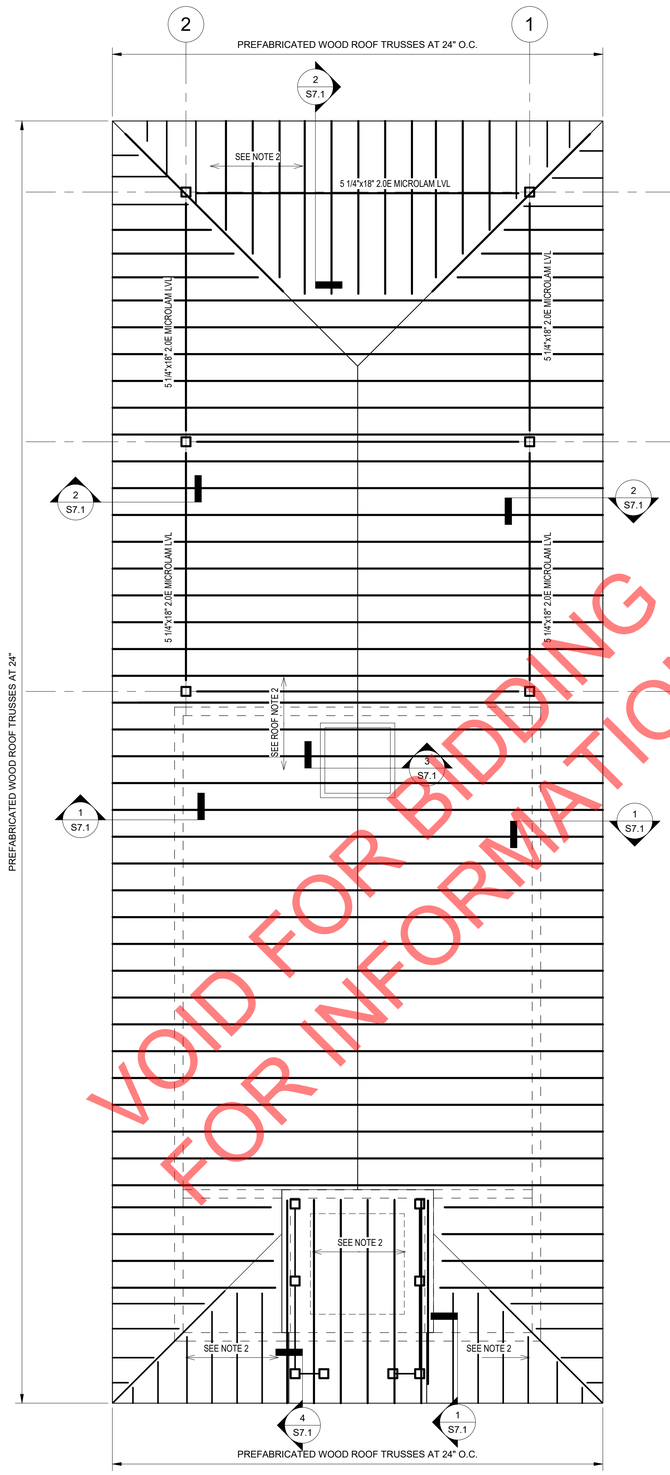
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
MISCELLANEOUS DETAILS AND SCHEDULES

PROJECT NO.	DATE
18062-1	02/25/21
DRAWN BY: RA	SCALE: As indicated
CHECKED BY: MT	

SHEET NO.
S0.4



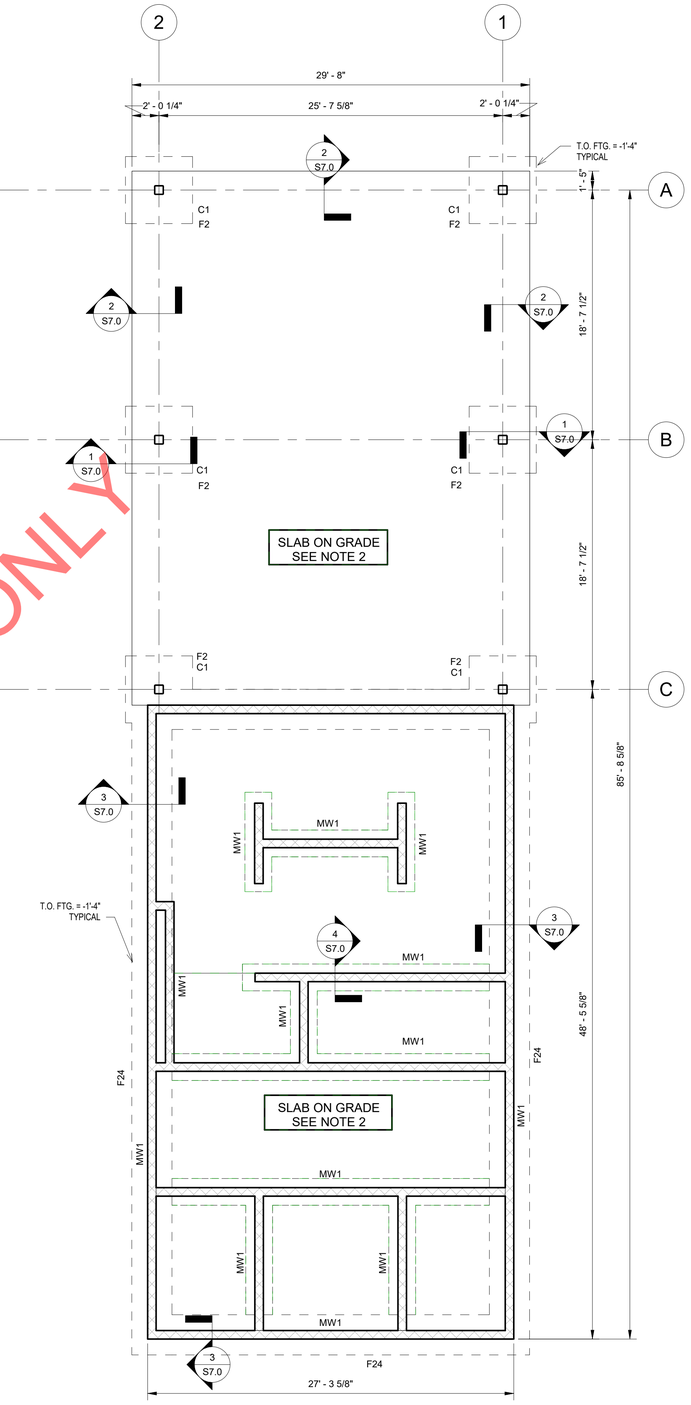
CONCESSION PAVILLION ROOF FRAMING PLAN - BLDG A

2 3/16" = 1'-0"

1 JOIST BEARING ELEVATION = SEE ARCH. DWGS.

2 ROOF: 5/8" EXT. PLYWOOD, SEE SPECIFICATIONS. FOR BOUNDARY NAILING REQUIREMENTS, SEE DETAIL 6 / S7.1

3 TRUSS SUPPLIER TO REVIEW MECHANICAL DRAWINGS AND COORDINATE TRUSS DIAGONALS WITH DUCTWORK PENETRATIONS THROUGH TRUSSES.



CONCESSION PAVILLION FOUNDATION PLAN - BLDG A

1 3/16" = 1'-0"

1 FINISH FLOOR ELEVATION = 0'-0"

2 4" CONCRETE SLAB WITH WWM 6x6 / W2.1xW2.1 ON PROPERLY PREPARED SUBGRADE.

3 PROVIDE SLAB CONTROL JOINTS PER S0.4 AS REQUIRED IN THE GENERAL NOTES.

4 (T.O. FTG = -X'-X") REPRESENTS TOP OF FOOTING REFERENCED FROM FINISHED FLOOR. G.C. TO VERIFY WITH FINISHED GRADE SHOWN ON CIVIL DRAWINGS.

5 F_ = SEE FOOTING SCHEDULE ON S0.4 FOR SIZE AND REINFORCING.

6 C_= SEE COLUMN SCHEDULE ON S0.4 FOR SIZE AND BASE PLATE DETAILS.

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475

LOSE DESIGN
SPACES FOR LIFE.

2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

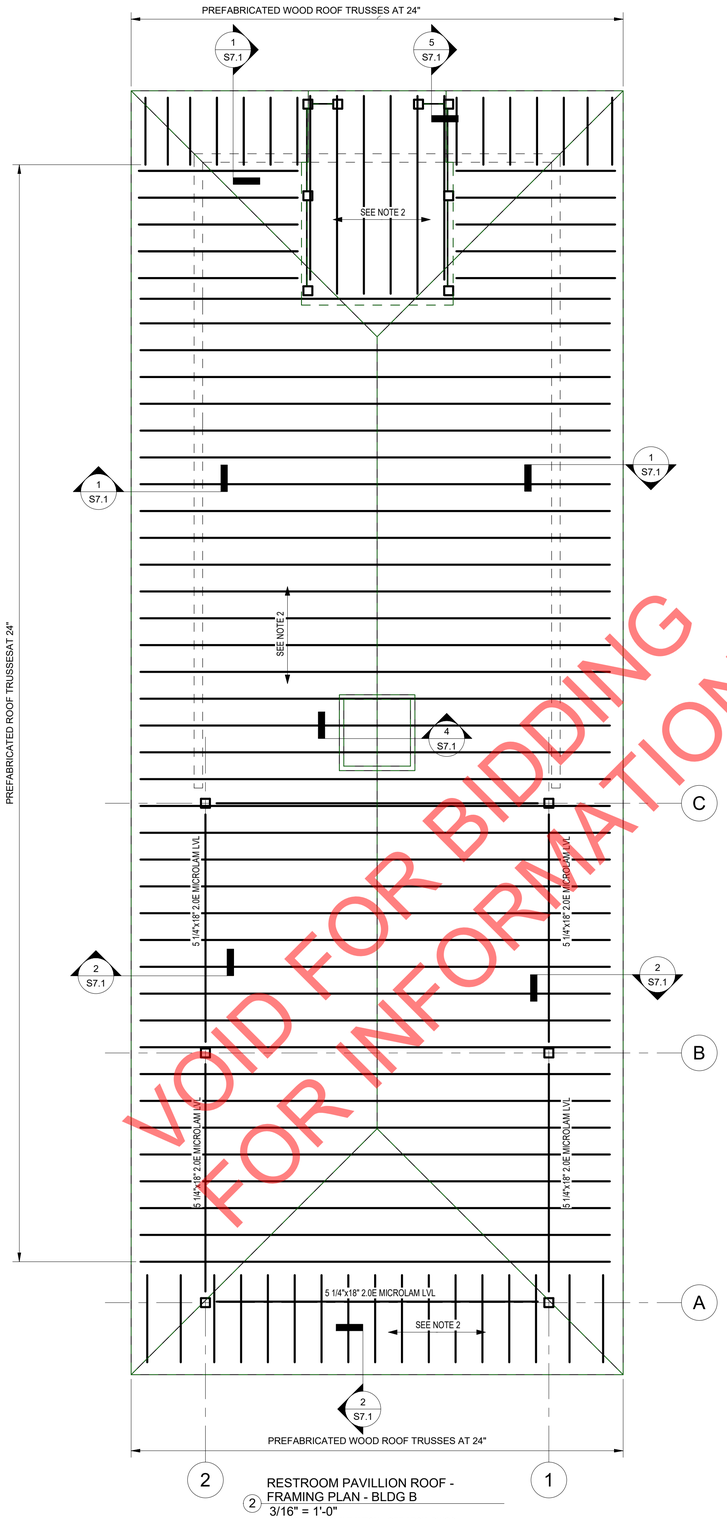
SHEET TITLE

CONCESSION PAVILLION PLANS - BLDG A

PROJECT NO.	DATE
18062-1	02/25/21
DRAWN BY: RA	SCALE: As indicated
CHECKED BY: MT	

SHEET NO.

S1.0

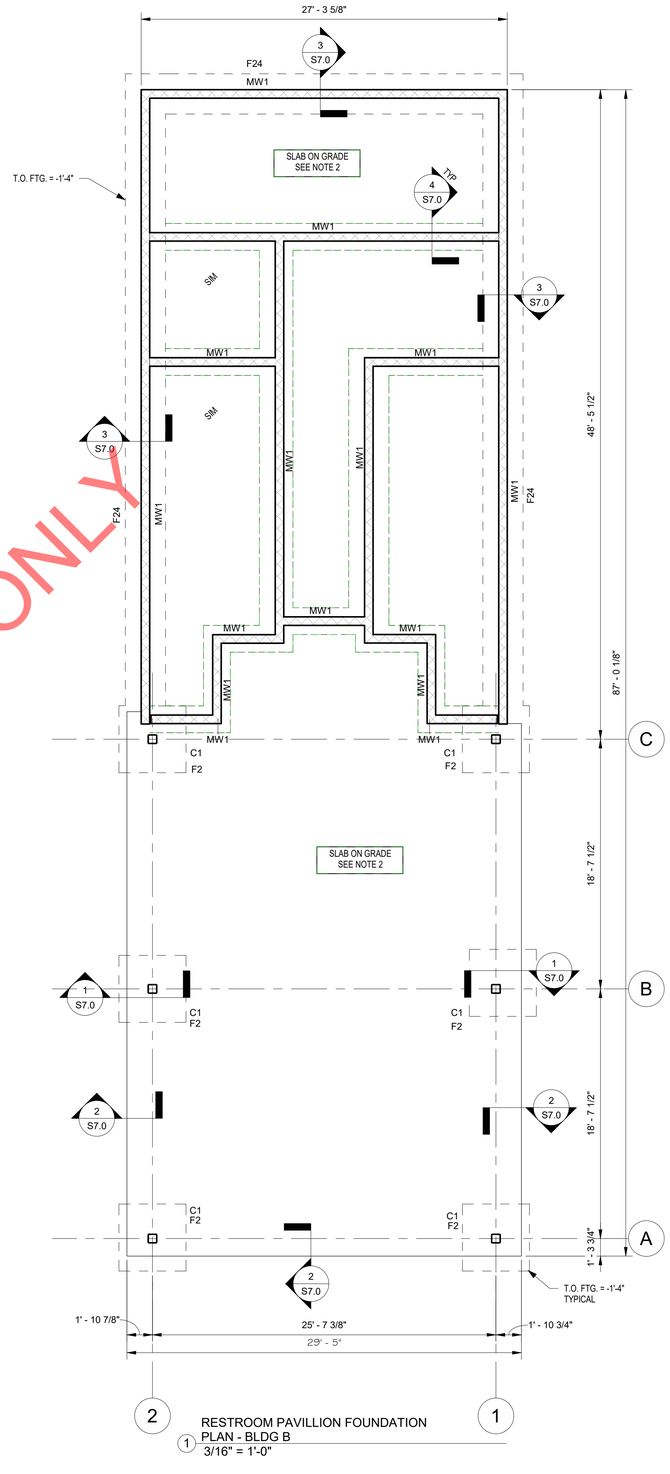


2 RESTROOM PAVILLION ROOF - FRAMING PLAN - BLDG B
3/16" = 1'-0"

1 JOIST BEARING ELEVATION = SEE ARCH. DWGS.

2 ROOF: 5/8" EXT. PLYWOOD. SEE SPECIFICATIONS. FOR BOUNDARY NAILING REQUIREMENTS, SEE DETAIL 6/S7.1.

3 TRUSS SUPPLIER TO REVIEW MECHANICAL DRAWINGS AND COORDINATE TRUSS DIAGONALS WITH DUCTWORK PENETRATIONS THROUGH TRUSSES.



1 RESTROOM PAVILLION FOUNDATION PLAN - BLDG B
3/16" = 1'-0"

1 FINISH FLOOR ELEVATION = 0'-0"

2 4" CONCRETE SLAB WITH WWM 6x6 / W2.1xW2.1 ON PROPERLY PREPARED SUBGRADE.

3 PROVIDE SLAB CONTROL JOINTS PER S0.4 AS REQUIRED IN THE GENERAL NOTES.

4 (T.O. FTG = -X'-X") REPRESENTS TOP OF FOOTING REFERENCED FROM FINISHED FLOOR. G.C. TO VERIFY WITH FINISHED GRADE SHOWN ON CIVIL DRAWINGS.

5 F_ = SEE FOOTING SCHEDULE ON S0.4 FOR SIZE AND REINFORCING.

6 C_= SEE COLUMN SCHEDULE ON S0.4 FOR SIZE AND BASE PLATE DETAILS.

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED ENGINEER
NO. 107967
STATE OF TENNESSEE
Matthew S Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

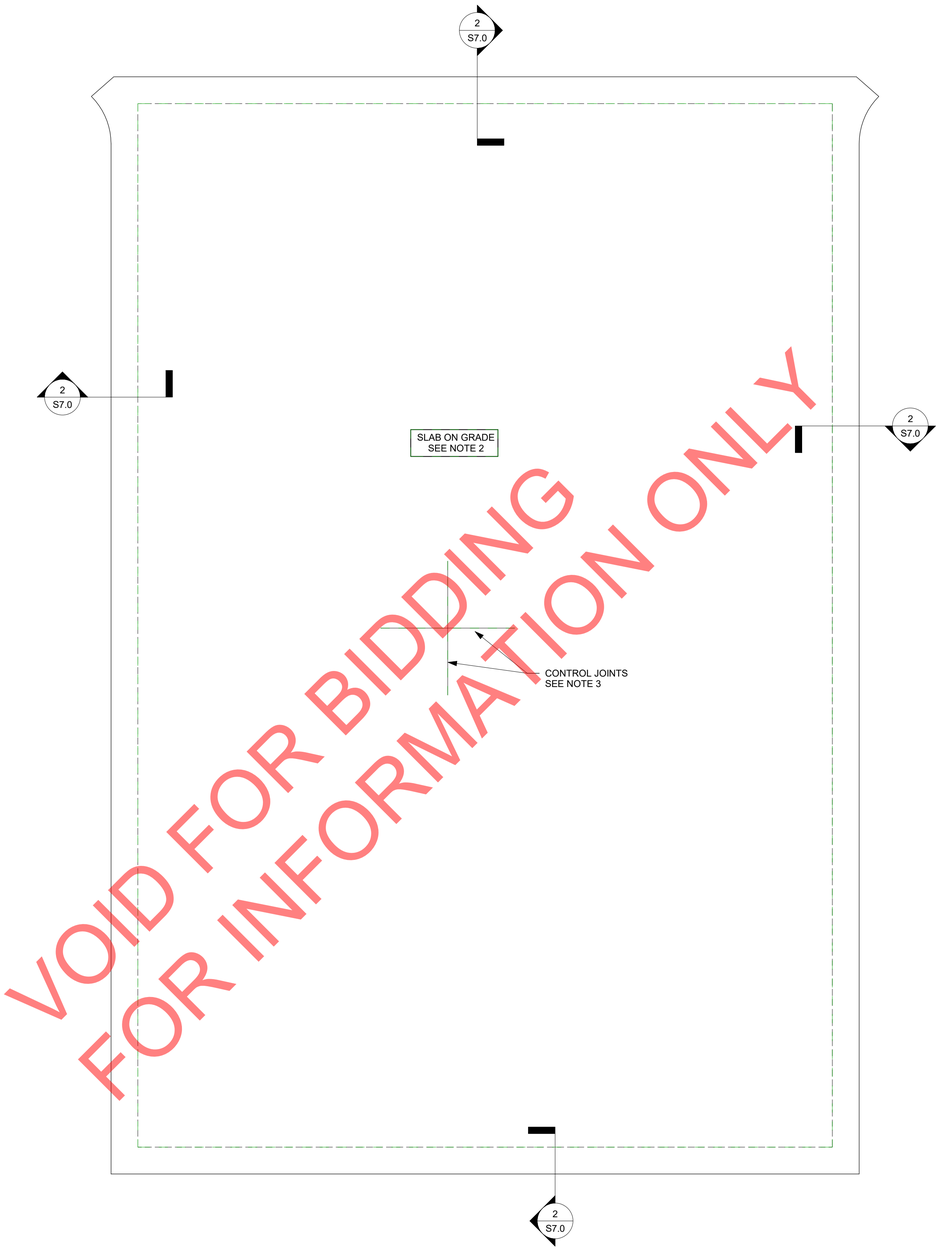
NO	DATE	DESCRIPTION

SHEET TITLE
RESTROOM PAVILLION PLANS - BLDG B

PROJECT NO.	DATE
18062-1	02/25/21
DRAWN BY: RA	SCALE: As indicated
CHECKED BY: MT	

SHEET NO.
S2.0

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 · 615-784-4475



1 BATTING CAGE PAVILLION FOUNDATION PLAN
3/16" = 1'-0"

1 FINISH FLOOR ELEVATION = 0'-0"

2 4" CONCRETE SLAB WITH WWM 6X6 / W2.1XW2.1 ON PROPERLY PREPARED SUBGRADE WITH 4" BASE STONE 303-01.

3 PROVIDE SLAB CONTROL JOINTS PER S0.4 AS REQUIRED IN THE GENERAL NOTES.

4 F_ = SEE FOOTING SCHEDULE ON S0.4 FOR SIZE AND REINFORCING.

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED ENGINEER
NO. 107967
STATE OF TENNESSEE
Matthew S. Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

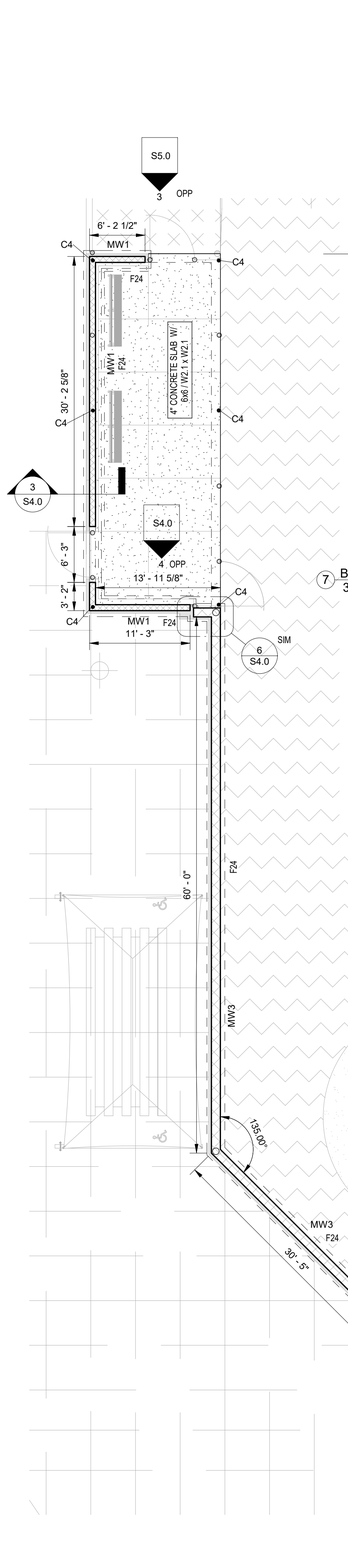
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

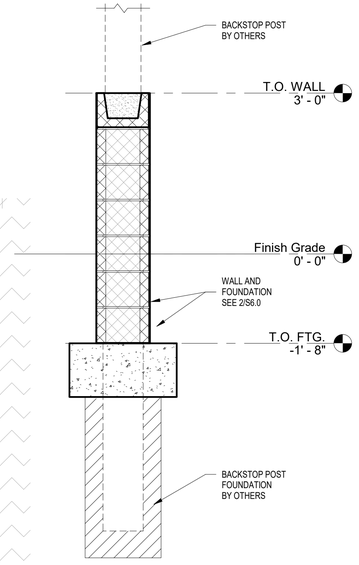
SHEET TITLE
BATTING CAGE PAVILLION FOUNDATION PLAN

PROJECT NO. 18062-1	DATE 03/31/21
DRAWN BY RA	SCALE As indicated
CHECKED BY MT	

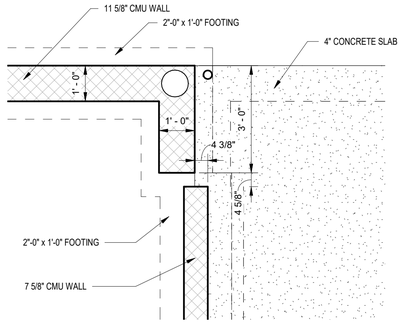
SHEET NO.
S3.0



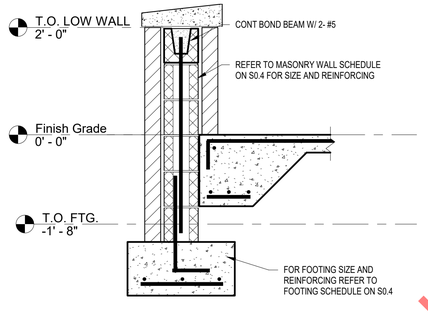
1 BALL FIELD WALL PLAN
1/8" = 1'-0"



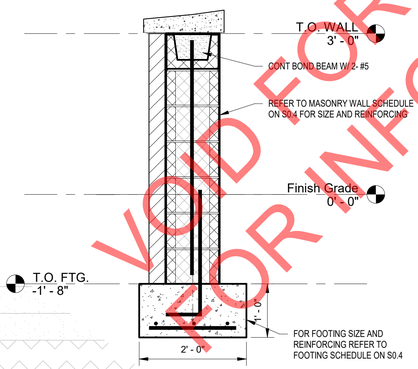
7 BACKSTOP FOUNDATION SECTION
3/4" = 1'-0"



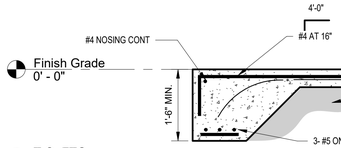
6 WALL PLAN DETAIL
1/2" = 1'-0"



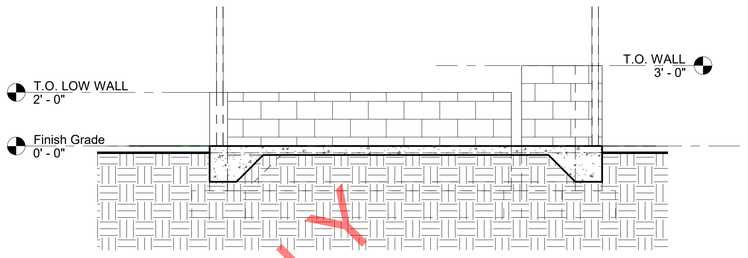
3 DUGOUT WALL SECTION
3/4" = 1'-0"



2 TYPICAL WALL SECTION
3/4" = 1'-0"



5 EDGE OF SLAB SECTION
3/4" = 1'-0"



4 DUGOUT WALL ELEVATION
3/8" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED ENGINEER
AGENCY NUMBER
NO. 107961
STATE OF TENNESSEE
Matthew S Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

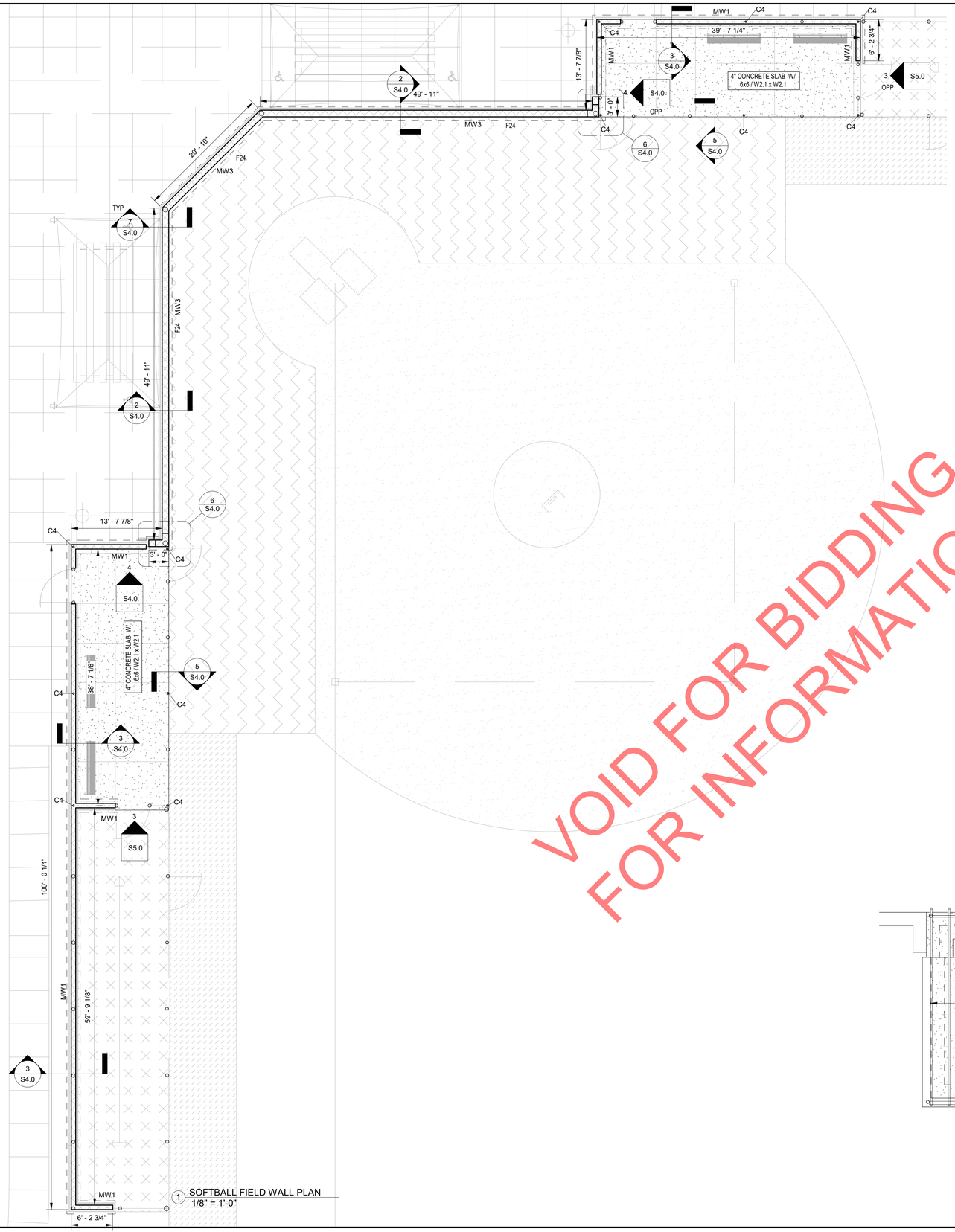
NO	DATE	DESCRIPTION

SHEET TITLE
BALL FIELD BACKSTOP PLAN

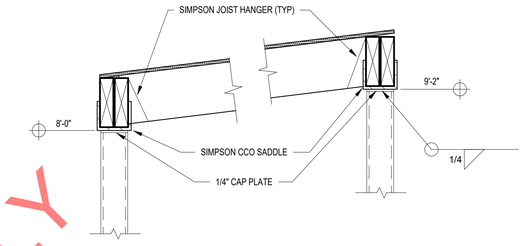
PROJECT NO.	DATE
18062-1	03/31/21
DRAWN BY: RA	SCALE: As indicated
CHECKED BY: MT	

SHEET NO.
S4.0

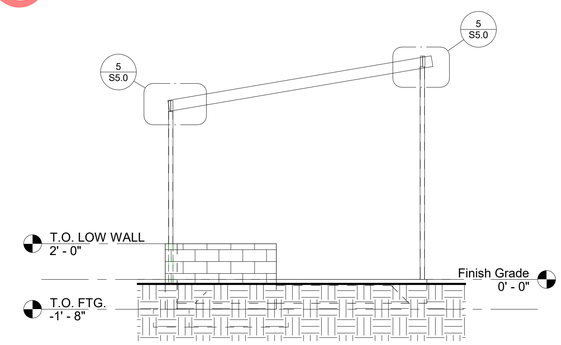
TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475



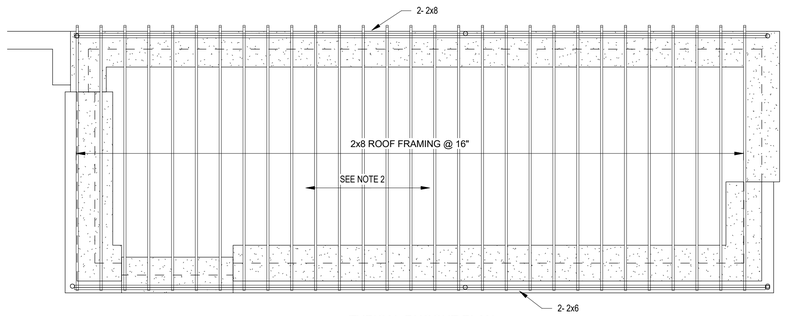
1 SOFTBALL FIELD WALL PLAN
1/8" = 1'-0"



5 DUGOUT DETAIL
1 1/2" = 1'-0"



3 TYPICAL DUGOUT ELEVATION
1/4" = 1'-0"



2 TYPICAL DUGOUT PLAN
1/4" = 1'-0"

1 JOIST BEARING ELEVATION = SEE ARCH. DWGS.

2 ROOF: 5/8" EXT. PLYWOOD, SEE SPECIFICATIONS. FOR BOUNDARY NAILING REQUIREMENTS, SEE DETAIL 6/S7.1.

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED
ENGINEER
10795
STATE OF TENNESSEE
Matthew S. Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

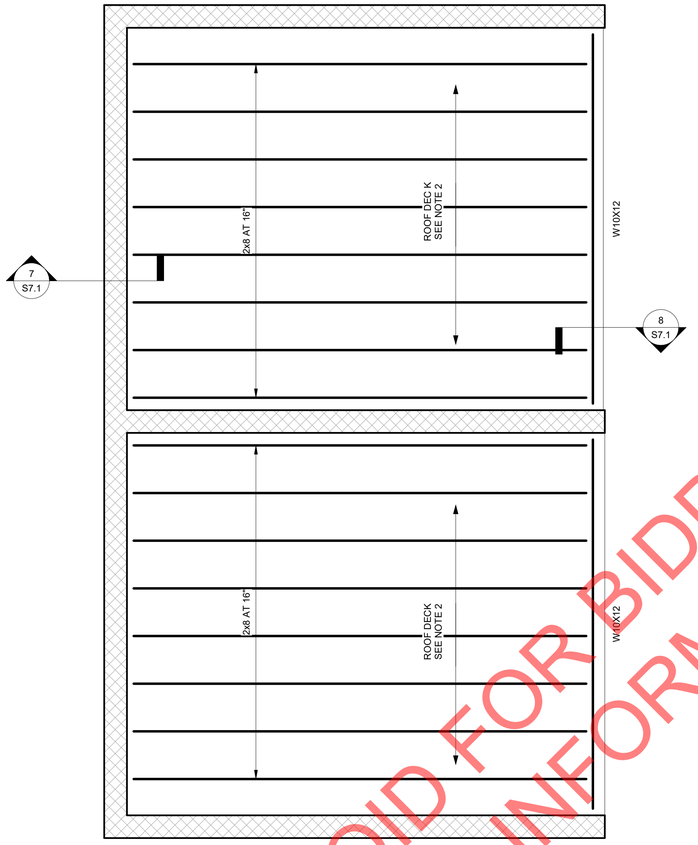
NO	DATE	DESCRIPTION

SHEET TITLE
SOFTBALL BACKSTOP PLAN

PROJECT NO.	DATE
18062-1	02/25/21
DRAWN BY	SCALE
RA	As indicated
CHECKED BY	
MT	

SHEET NO.
S5.0

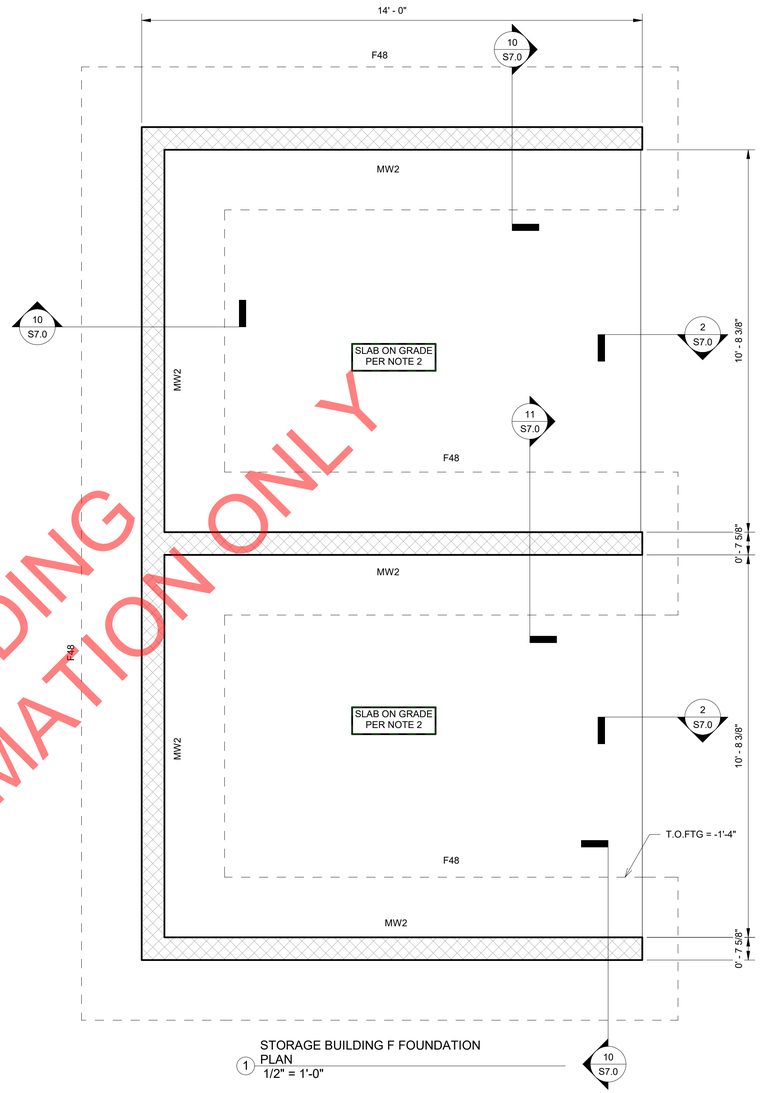
TRAMMELL
Engineering Group
401 West Main Street, Suite 204 · Lebanon, TN 37087 · 615-784-4475



2 STORAGE BUILDING F FRAMING PLAN
1/2" = 1'-0"

1 JOIST BEARING ELEVATION = SEE ARCH. DWGS.

2 ROOF: 5/8" EXT. PLYWOOD, SEE SPECIFICATIONS. FOR BOUNDARY NAILING REQUIREMENTS, SEE DETAIL 6/S7.1.



1 STORAGE BUILDING F FOUNDATION PLAN
1/2" = 1'-0"

1 FINISH FLOOR ELEVATION = 0'-0"

2 4" CONCRETE SLAB WITH WWM 6x6 / W2.1xW2.1 ON PROPERLY PREPARED SUBGRADE.

3 PROVIDE SLAB CONTROL JOINTS PER S0.4 AND AS REQUIRED IN THE GENERAL NOTES.

4 (T.O. FTG = -X'-X") REPRESENTS TOP OF FOOTING REFERENCED FROM FINISHED FLOOR. G.C. TO VERIFY WITH FINISHED GRADE SHOWN ON CIVIL DRAWINGS.

5 F_ = SEE FOOTING SCHEDULE ON S0.4 FOR SIZE AND REINFORCING.

6 MW_= SEE MASONRY WALL SCHEDULE ON S0.4 FOR SIZE AND REINFORCING.

LOSE DESIGN
SPACES FOR LIFE.

2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
FRANKLIN TENNESSEE

SUBMITTALS / REVISIONS

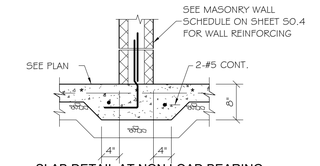
NO	DATE	DESCRIPTION

SHEET TITLE
STORAGE BUILDING F PLANS

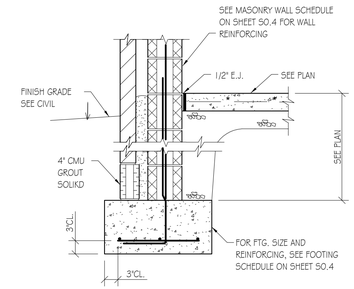
PROJECT NO.	DATE
18062-1	02/25/21
DRAWN BY: RA	SCALE: As indicated
CHECKED BY: MT	

SHEET NO.
S6.0

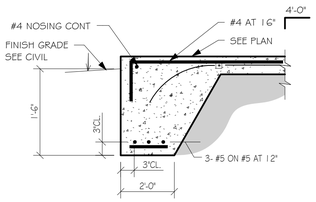
TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475



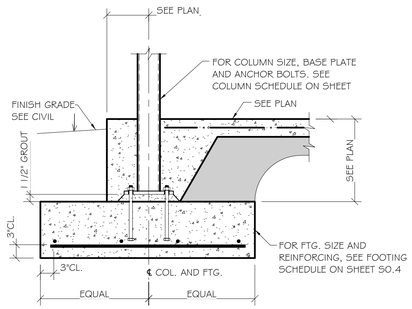
SLAB DETAIL AT NON LOAD BEARING PARTITION
4 3/4" = 1'-0"



3 FOOTING SECTION
3/4" = 1'-0"

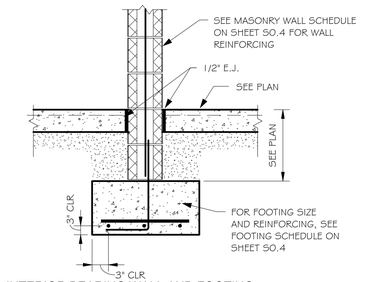


2 SLAB TURN DOWN SECTION
3/4" = 1'-0"

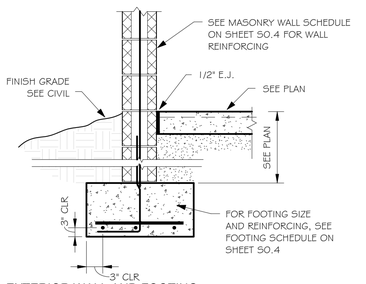


NOTE: WHERE TOP OF FTG. IS MORE THAN 16" BELOW THE FIN. FLOOR, CONTRACTOR TO PROVIDE A 18x18" CONC. PEDESTAL WITH 4-#5 VERT., 3-#4 TIES AT 3" (TOP) AND THE REMAINING AT 12". TOP OF CONC. PEDESTAL TO BE 16" BELOW FIN. FLR.. PEDESTAL HEIGHT SHALL BE 1'-0" (MIN.) AND 4'-0" (MAX.)

1 EXTERIOR COLUMN FOOTING SECTION
3/4" = 1'-0"



INTERIOR BEARING WALL AND FOOTING SECTION
6 3/4" = 1'-0"



EXTERIOR WALL AND FOOTING SECTION
5 3/4" = 1'-0"

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED ENGINEER
107967
STATE OF TENNESSEE
Matthew S. Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

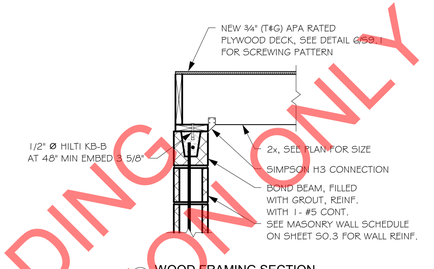
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

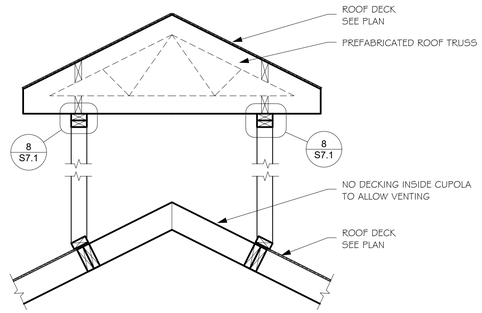
SHEET TITLE
DETAILS

PROJECT NO.	DATE
18062-1	03/31/21
DRAWN BY: RA	SCALE: 3/4" = 1'-0"
CHECKED BY: MT	

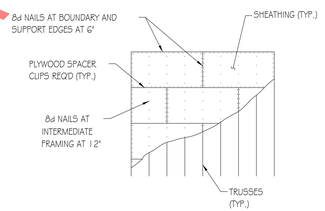
SHEET NO.
S7.0



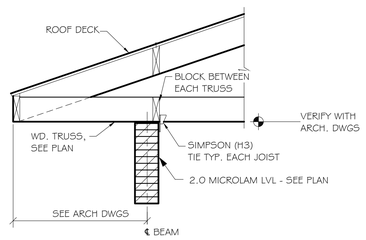
6 WOOD FRAMING SECTION
3/4" = 1'-0"



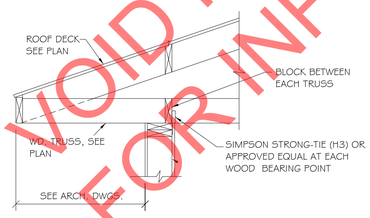
3 CUPOLA SECTION
3/4" = 1'-0"



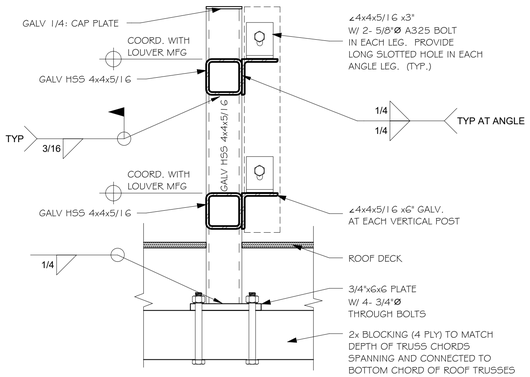
5 ROOF PLYWOOD NAILING PATTERN DETAIL
3/4" = 1'-0"



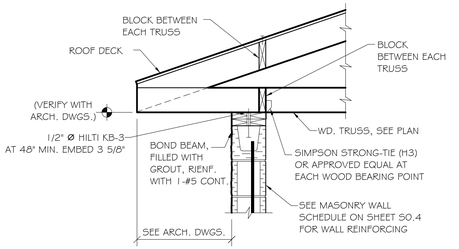
2 WOOD TRUSS BEARING SECTION
3/4" = 1'-0"



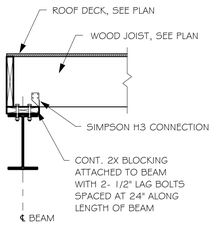
8 WOOD TRUSS BEARING AT WALL
3/4" = 1'-0"



4 SCREEN WALL DETAIL
1 1/2" = 1'-0"



1 WOOD TRUSS BEARING SECTION
3/4" = 1'-0"



7 WOOD JOIST BEARING SECTION
3/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

MATTHEW S. TRAMMELL
REGISTERED ENGINEER
AGENCY NUMBER
107967
STATE OF TENNESSEE
Matthew S. Trammell
2-24-21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST
FRANKLIN TENNESSEE

PREPARED FOR:
CITY OF FRANKLIN

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
DETAILS 2

PROJECT NO. 18062-1	DATE 02/25/21
DRAWN BY RA	SCALE As indicated
CHECKED BY MT	

SHEET NO.
S7.1

TRAMMELL
Engineering Group
401 West Main Street, Suite 204 Lebanon, TN 37087 615-784-4475

HVAC PLAN NOTES:

1 MOTORIZED DAMPER.

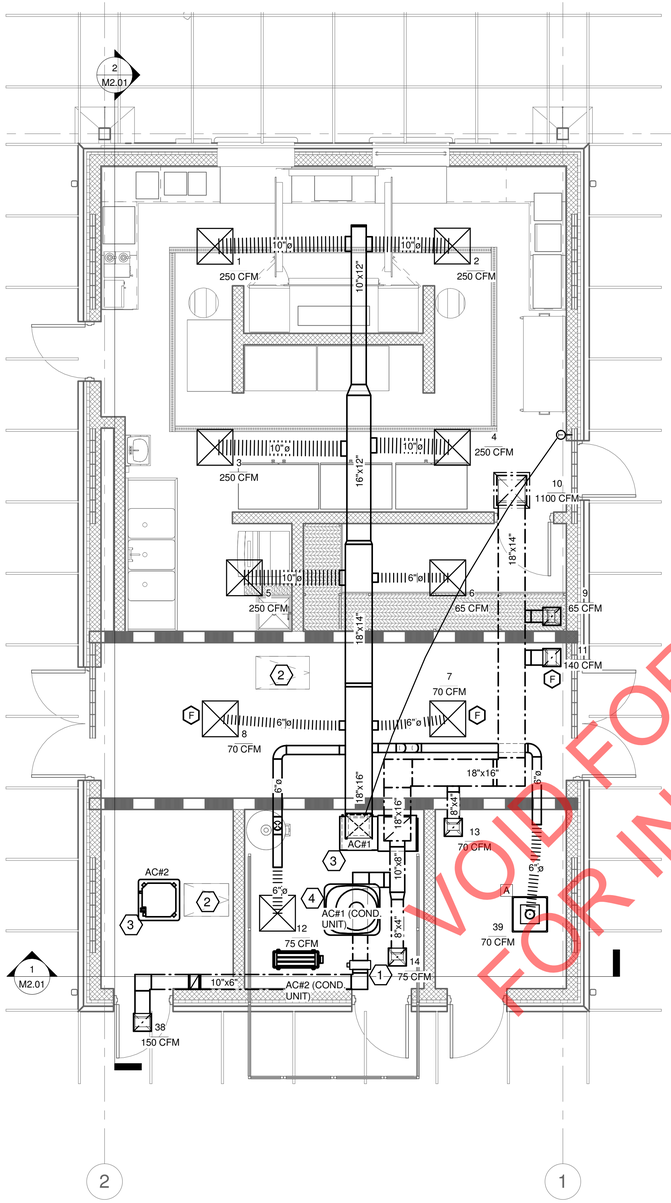
2 FOR ATTIC ACCESS PANELS REFER TO ARCH. DRAWINGS FOR EXACT LOCATION. COORDINATE DUCT LOCATION WITH ATTIC ACCESS PANEL.

3 ROUTE THE CONDENSATE DRAIN TO THE MECHANICAL ROOM FLOOR DRAIN.

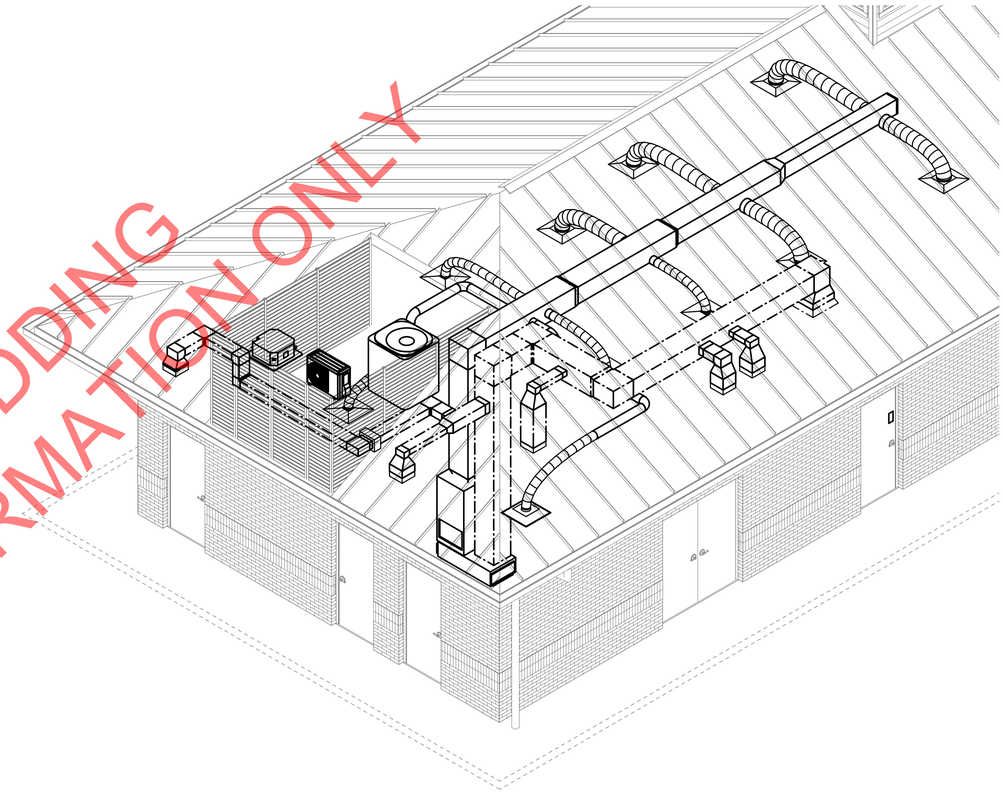
4 CONDENSING UNIT LOCATED ON THE ROOF IN THE MECHANICAL SCREENED IN AREA.

HVAC GENERAL NOTES:

1. PAINT ALL ROOF AND WALL PENETRATIONS TO MATCH ROOF/WALL COLOR. COLOR TO BE SELECTED BY THE ARCHITECT.
2. NO MAIN DUCT AND/OR BRANCH LINE WILL BE RUN BELOW THE CEILING.
3. ALL CONTROL WIRING TO BE IN CONDUIT.
4. CONDENSATE PIPING TO BE TYPE PVC AND INSULATED THE SAME AS DOMESTIC COLD WATER LINES. ROUTE 3/4" DRAIN LINE TO THE NEAREST DRAIN. PROVIDE AIR GAP PER CODE.
5. REFRIGERANT PIPING SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
6. REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 3/4" THICK ARMSTRONG FR/ARMAFLEX FLEXIBLE ELASTOMERIC CLOSED CELL INSULATION.



1 HVAC FLOOR PLAN-BUILDING A
1/4" = 1'-0"



2 HVAC 3D FLOOR PLAN - BUILDING A

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
Timothy M. Harms
NUMBER 109539
STATE OF TENNESSEE
02-25-2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
HVAC FLOOR PLANS - BUILDING A

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE 1/4" = 1'-0"
CHECKED BY TMH	

SHEET NO.
M1.01

HVAC PLAN NOTES:

1 MOTORIZED DAMPER.

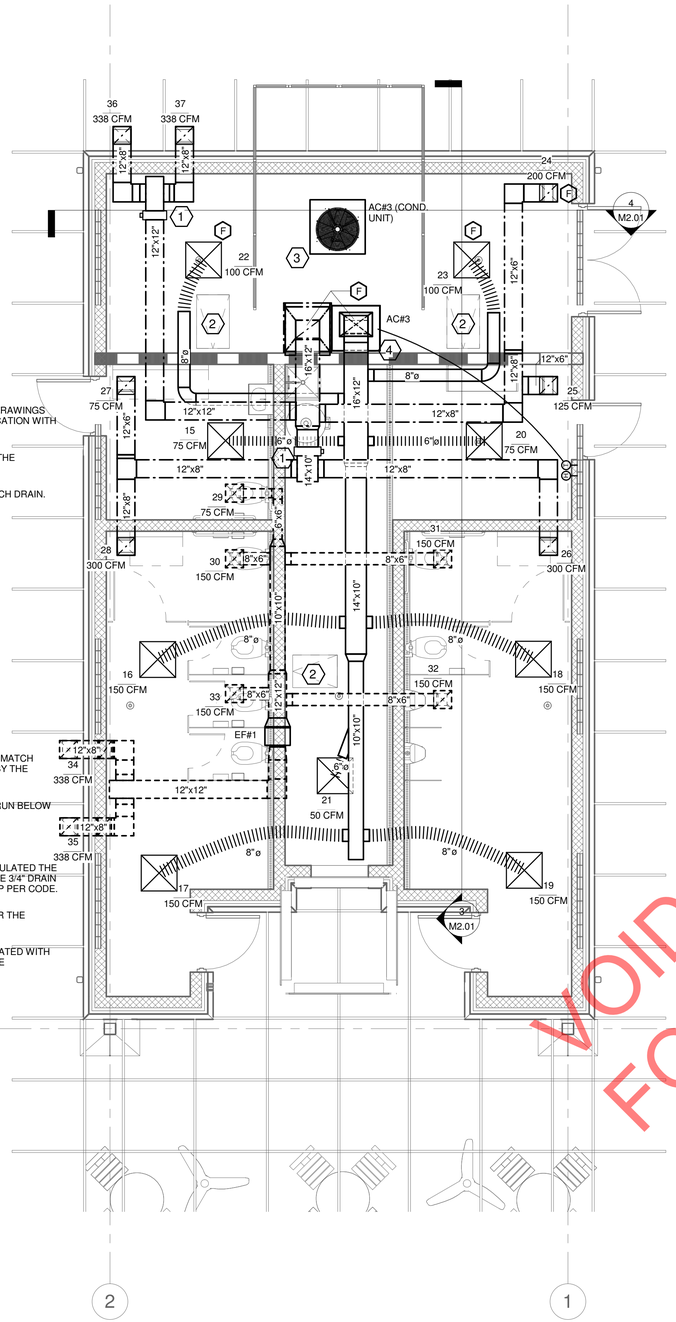
2 FOR ATTIC ACCESS PANELS REFER TO ARCH. DRAWINGS FOR EXACT LOCATION. COORDINATE DUCT LOCATION WITH ATTIC ACCESS PANEL.

3 CONDENSING UNIT LOCATED ON THE ROOF IN THE MECHANICAL SCREENED IN AREA.

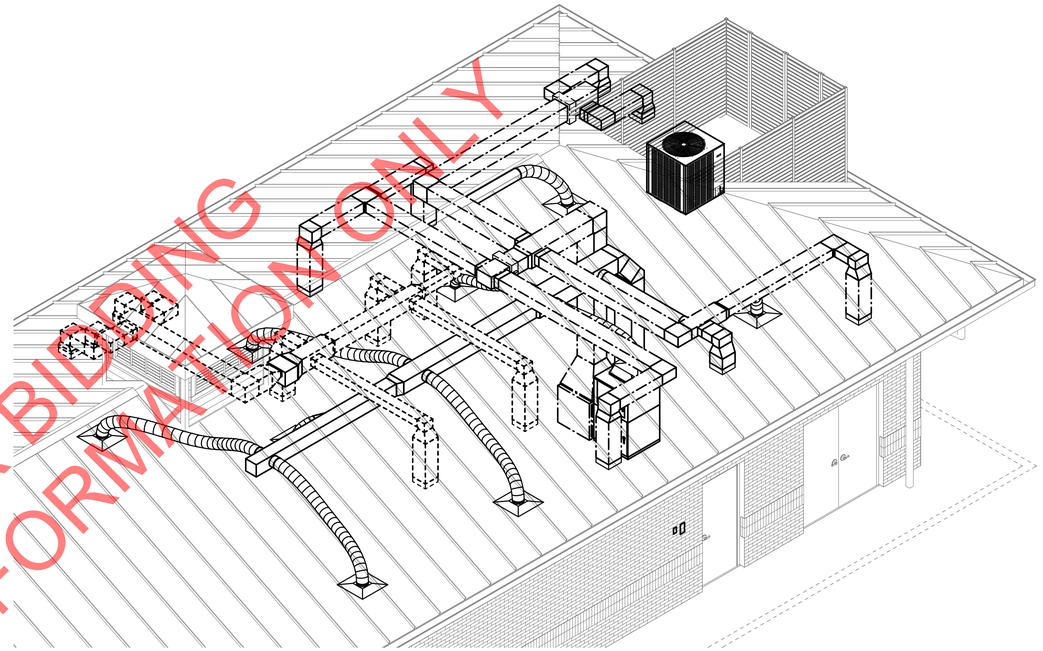
4 ROUTE THE CONDENSATE DRAIN TO THE TRENCH DRAIN.

HVAC GENERAL NOTES:

1. PAINT ALL ROOF AND WALL PENETRATIONS TO MATCH ROOF/WALL COLOR. COLOR TO BE SELECTED BY THE ARCHITECT.
2. NO MAIN DUCT AND/OR BRANCH LINE WILL BE RUN BELOW THE CEILING.
3. ALL CONTROL WIRING TO BE IN CONDUIT.
4. CONDENSATE PIPING TO BE TYPE PVC AND INSULATED THE SAME AS DOMESTIC COLD WATER LINES. ROUTE 3/4" DRAIN LINE TO THE NEAREST DRAIN. PROVIDE AIR GAP PER CODE.
5. REFRIGERANT PIPING SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
6. REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 3/4" THICK ARMSTRONG FR/ARMAFLEX FLEXIBLE ELASTOMERIC CLOSED CELL INSULATION.



1 HVAC FLOOR PLAN-BUILDING B
1/4" = 1'-0"



2 HVAC 3D FLOOR PLAN - BUILDING B

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
Timothy M. Harms
COMMERCIAL
No. 109539
STATE OF TENNESSEE
02.25.2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

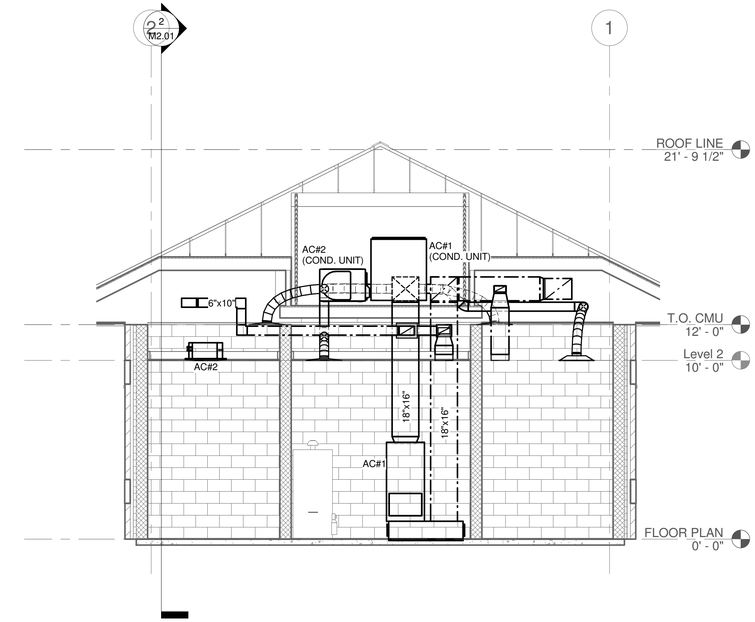
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

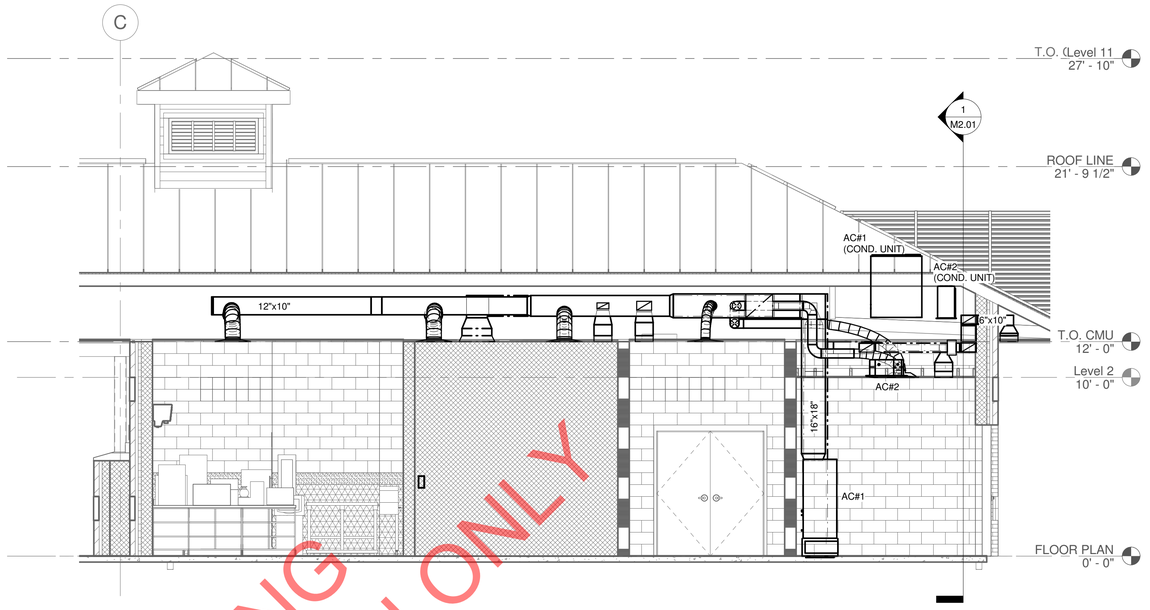
SHEET TITLE
HVAC FLOOR PLANS - BUILDING B

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: TMH	SCALE: 1/4" = 1'-0"
CHECKED BY: TMH	

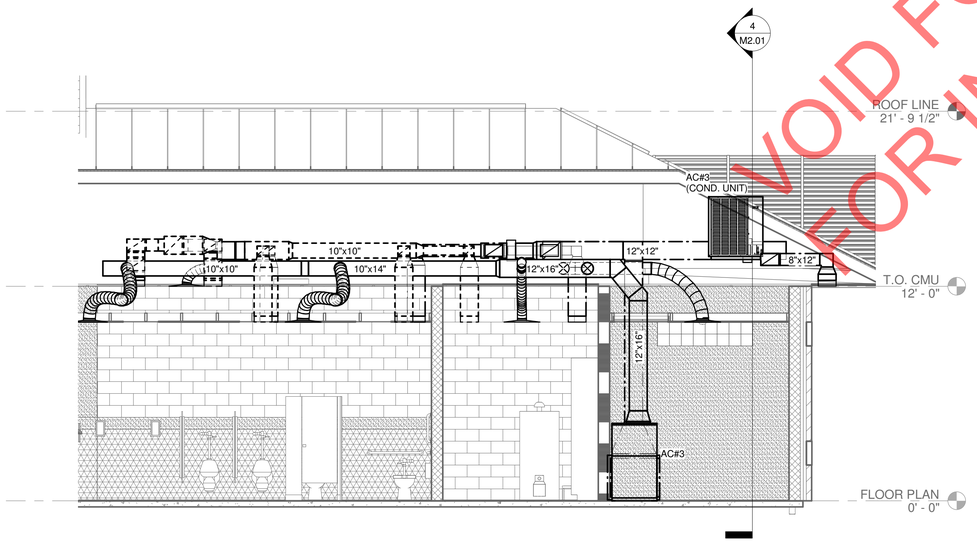
SHEET NO.
M1.02



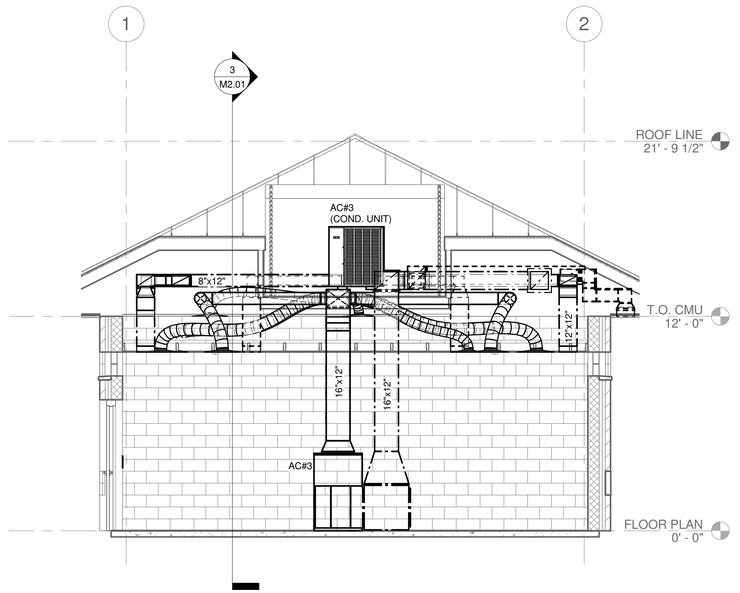
1 HVAC SECTION 1-BUILDING A
1/4" = 1'-0"



2 HVAC SECTION 2-BUILDING A
1/4" = 1'-0"



3 HVAC SECTION 3-BUILDING B
1/4" = 1'-0"



4 HVAC SECTION 4-BUILDING B
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
HVAC SECTIONS

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE 1/4" = 1'-0"
CHECKED BY TMH	

SHEET NO.
M2.01

AIR TERMINAL SCHEDULE

Mark	Flow	Family and Type	Size
1	250 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 10 Neck	10"ø
2	250 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 10 Neck	10"ø
3	250 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 10 Neck	10"ø
4	250 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 10 Neck	10"ø
5	250 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 10 Neck	10"ø
6	65 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
7	70 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
8	70 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
9	65 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
10	1100 CFM	Return Diffuser: 24 x 24 Face 20 x 20 Connection	20"x20"
11	140 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
12	75 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
13	70 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
14	75 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
15	75 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
16	150 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 8 Neck	8"ø
17	150 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 8 Neck	8"ø
18	150 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 8 Neck	8"ø
19	150 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 8 Neck	8"ø
20	75 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
21	50 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 6 Neck	6"ø
22	100 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 8 Neck	8"ø
23	100 CFM	Supply Diffuser - Rectangular Face Round Neck: 24x24 - 8 Neck	8"ø
24	200 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
25	125 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
26	300 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
27	75 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
28	300 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
29	75 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
30	150 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
31	150 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
32	150 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
33	150 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
34	338 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
35	338 CFM	Exhaust Grill: 12 x 12 Face 12 x 12 Connection 2	12"x12"
36	338 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
37	338 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
38	150 CFM	Return Diffuser: 12 x 12 Face 12 x 12 Connection	12"x12"
39	70 CFM	Diffuser-Supply_2x2_TF-Series_Acutherm: 6" Inlet Diameter	6"ø

COM*check* Software Version 4.1.1.0

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Freedom Ball Fields-BLDG. A
Location: Franklin, Tennessee
Climate Zone: 4a
Project Type: New Construction

Construction Site:
Franklin, TN

Owner/Agent:
City Of Franklin
Franklin, TN

Designer/Contractor:
Timothy Harms
Harms Engineering, Inc.
850 Neartop Drive
Nashville, TN 37205
615-356-6789
harmsengr@gmail.com

Additional Efficiency Package(s)

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

Mechanical Systems List

Quantity	System Type & Description
1	AC#1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 54 kBtu/h, Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 48 kBtu/h, Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: AC#1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1600 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade
1	AC#2 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 10 kBtu/h, Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 12 kBtu/h, Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: AC#2 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 380 CFM, 0.1 motor nameplate hp, 0.0 fan efficiency grade
1	WH#1: Electric Storage Water Heater, Capacity: 50 gallons Proposed Efficiency: 241.50 SL, %/h (if > 12 kW), Required Efficiency: 0.84 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Timothy Harms - Mechanical Engineer Timothy M. Harms 03/16/2020
Name - Title Signature Date

COM*check* Software Version 4.1.1.0

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Freedom Ball Fields-BLDG. B
Location: Franklin, Tennessee
Climate Zone: 4a
Project Type: New Construction

Construction Site:
Franklin, TN

Owner/Agent:
City Of Franklin
Franklin, TN

Designer/Contractor:
Timothy Harms
Harms Engineering, Inc.
850 Neartop Drive
Nashville, TN 37205
615-356-6789
harmsengr@gmail.com

Additional Efficiency Package(s)

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

Mechanical Systems List

Quantity	System Type & Description
1	AC#3 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 100 kBtu/h, Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 59 kBtu/h, Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: AC#3 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 1000 CFM, 1.3 motor nameplate hp, 0.0 fan efficiency grade
1	WH#2: Electric Storage Water Heater, Capacity: 50 gallons Proposed Efficiency: 241.50 SL, %/h (if > 12 kW), Required Efficiency: 0.84 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Timothy Harms - Mechanical Engineer Timothy M. Harms 03/16/2020
Name - Title Signature Date

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103591
STATE OF TENNESSEE
Timothy M. Harms
02-25-2021

HARMS
ENGINEERING, INC
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

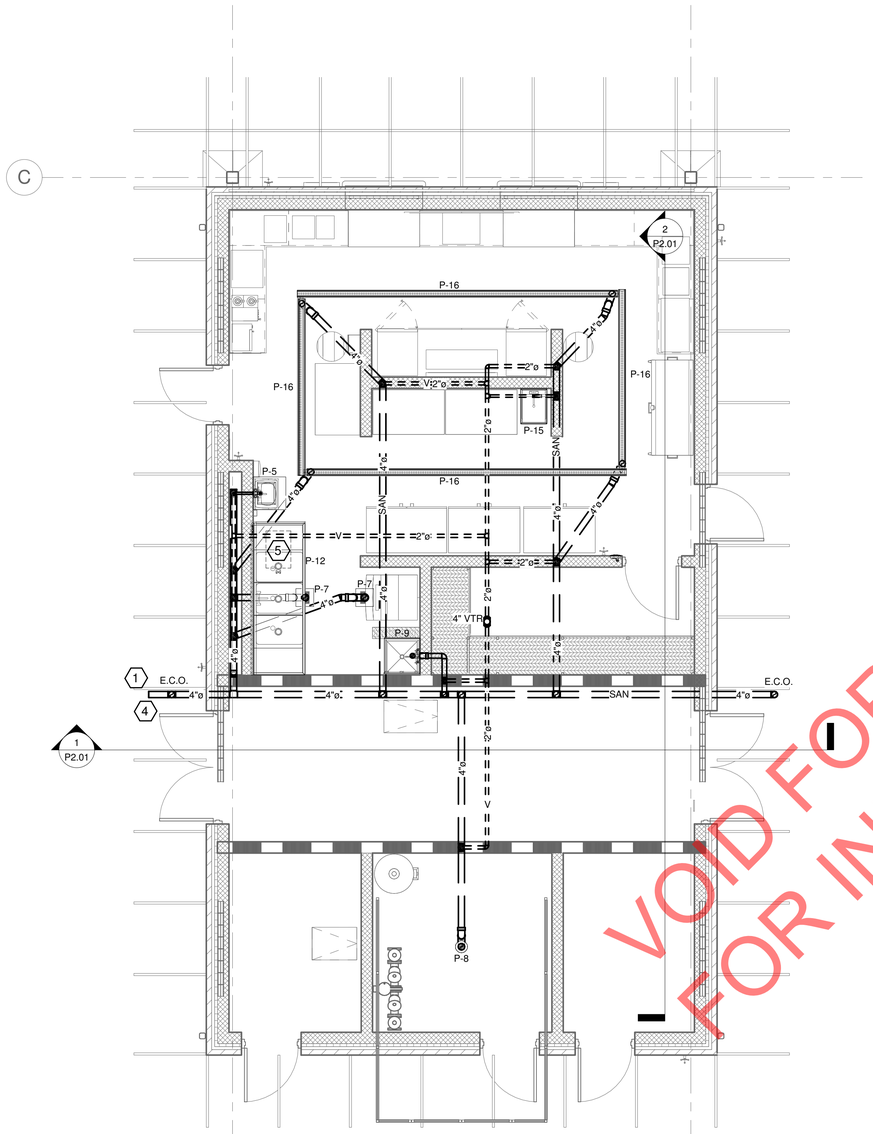
FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
HVAC AIR TERMINAL SCHEDULES & MECH. COMP.

PROJECT NO. **18062-3**
DATE **02/25/2021**
DRAWN BY **TMH**
SCALE
CHECKED BY **TMH**
SHEET NO.
M3.01



1 PLUMBING WASTE & VENT FLOOR PLAN-BUILDING A
1/4" = 1'-0"

PLUMBING PLAN NOTES:

1 REFER TO THE CIVIL SITE PLAN FOR CONTINUATION OF THE LINE.

2 REFER TO THE WATER ENTRY DETAIL 2 ON SHEET PM2.01.

3 PROVIDE A 1/2" UNDERGROUND COLD WATER LINE FROM A TRAP PRIMER TO TIE INTO THE DRAIN. (SEE DETAIL 4 ON SHEET PM.01)

4 INVERT DEPTH IS APPROXIMATELY 3'.

5 JR SMITH #8035 GREASE INTERCEPTOR(GI): 35 GPM; 70 LBS. GREASE CAPACITY. TIE THE THREE DRAINS FROM THE SINK TO THE GI. ROUTE A DRAIN FROM THE GI TO THE FLOOR SINK WITH AN OPEN AIR GAP.

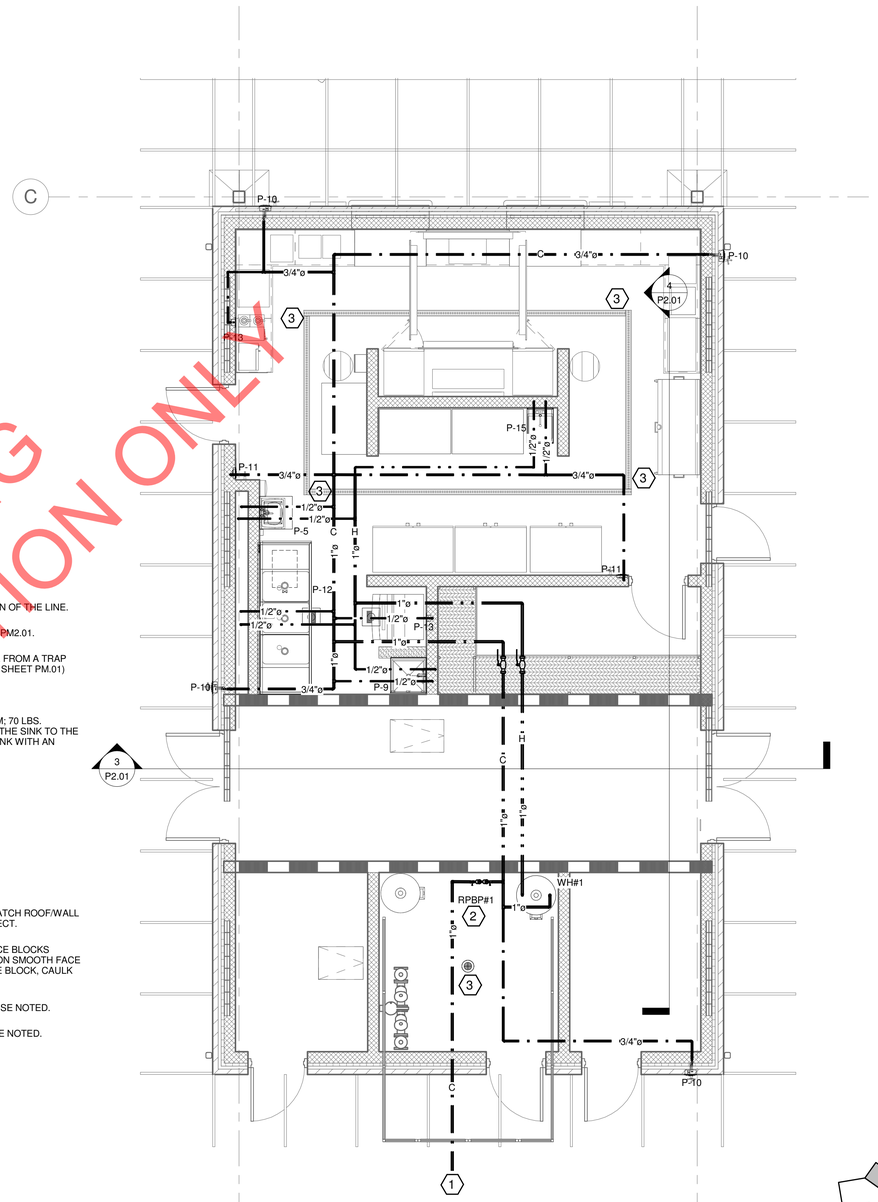
PLUMBING GENERAL NOTES:

1. PAINT ALL ROOF AND WALL PENETRATIONS TO MATCH ROOF/WALL COLOR. COLOR TO BE SELECTED BY THE ARCHITECT.

2. NO HOSE BIBB SHALL BE INSTALLED ON SPLIT FACE BLOCKS AND/OR JOINTS. HOSE BIBB SHALL BE MOUNTED ON SMOOTH FACE OF CMU AT THE HORIZONTAL CENTERLINE OF THE BLOCK, CAULK AROUND THE HOSE BIBB.

3. ALL WASTE PIPING SHALL BE 4" UNLESS OTHERWISE NOTED.

4. ALL VENT PIPING SHALL BE 2" UNLESS OTHERWISE NOTED.



2 PLUMBING WATER FLOOR PLAN-BUILDING A
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
Timothy M. Harms
02-25-2021
NUMBER 109539
STATE OF TENNESSEE

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

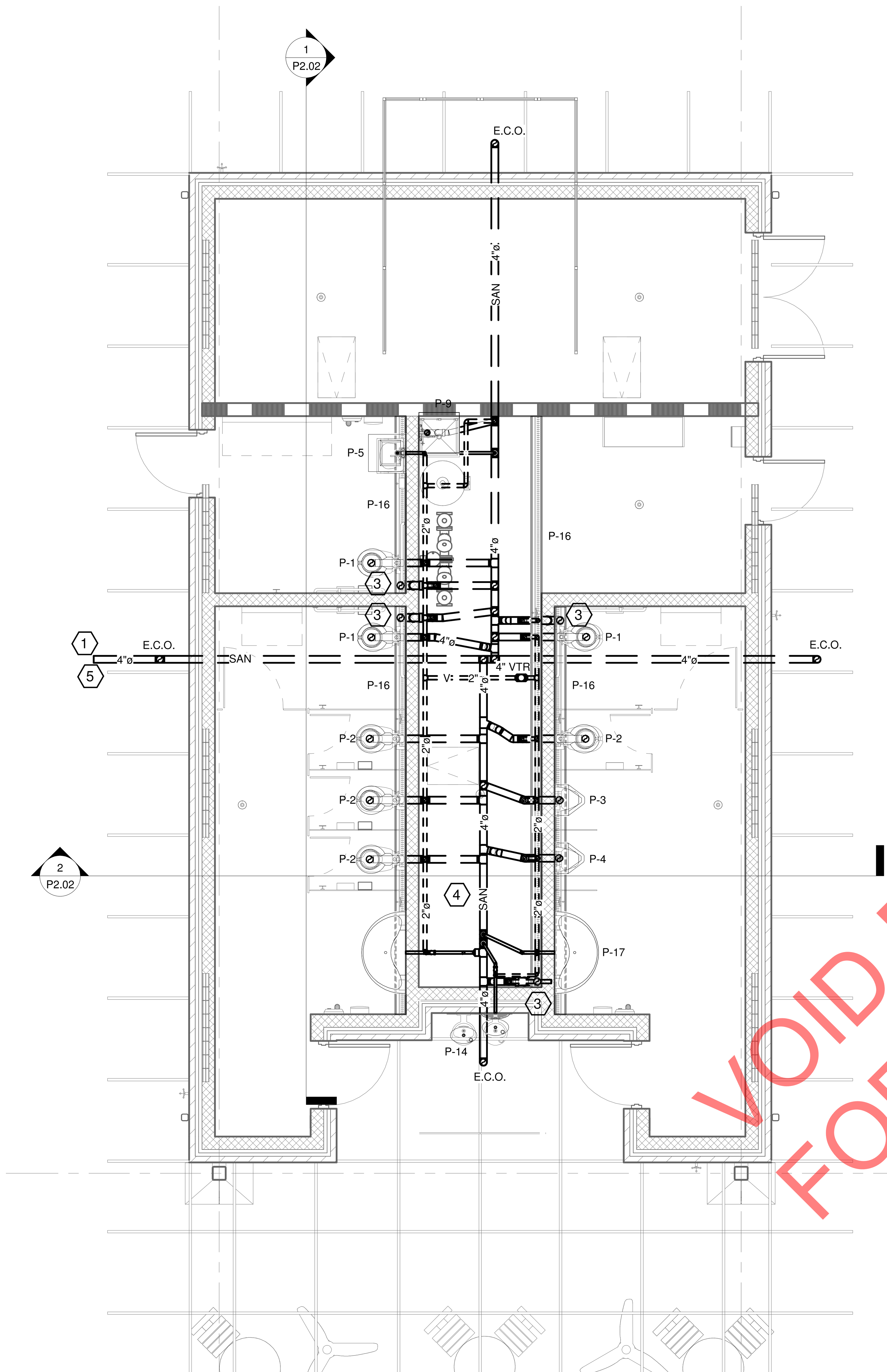
SHEET TITLE

PLUMBING FLOOR PLANS - BUILDING A

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY	SCALE
TMH	1/4" = 1'-0"
CHECKED BY	
TMH	

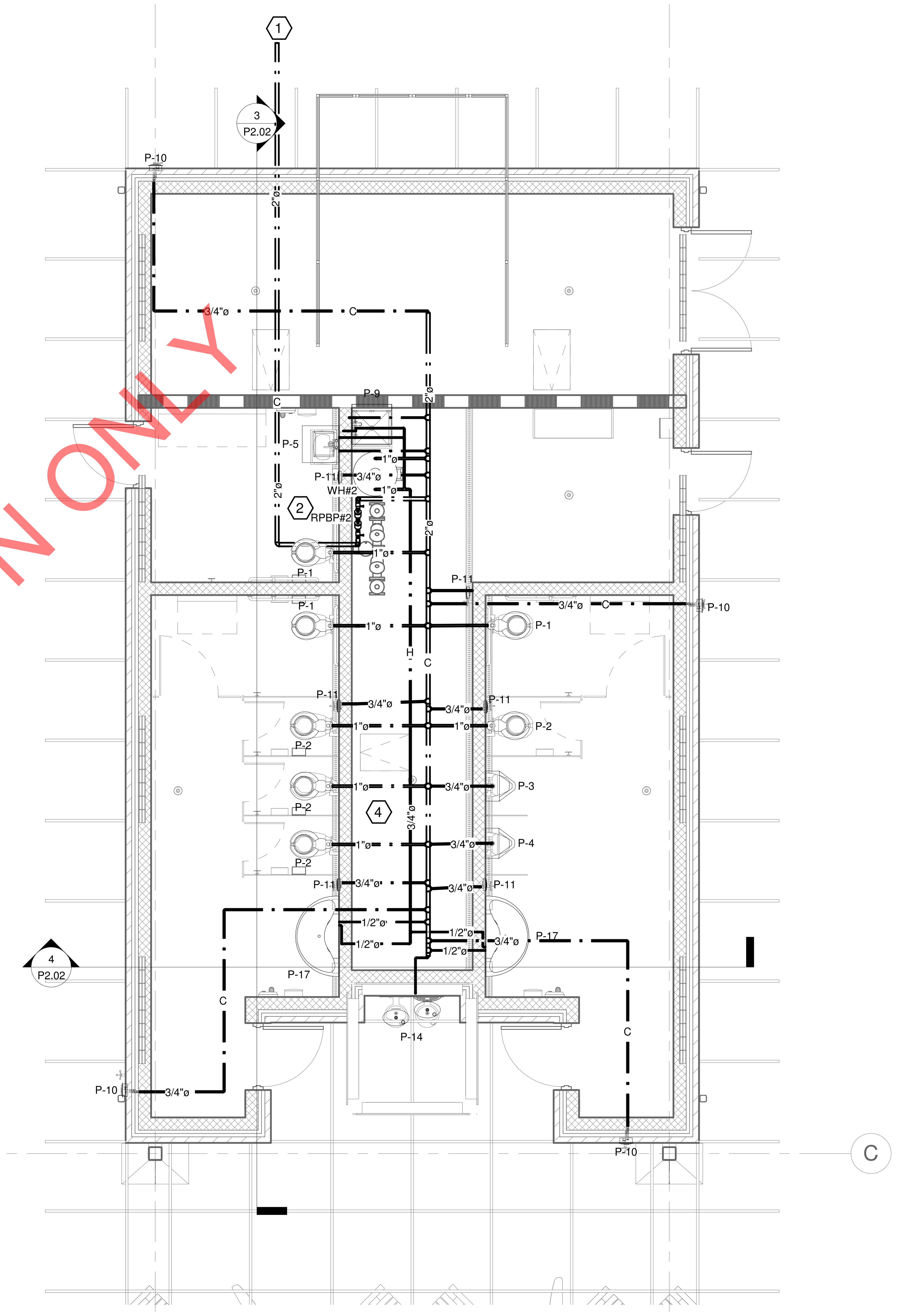
SHEET NO.

P1.01



PLUMBING WASTE & VENT FLOOR PLAN-BUILDING B

1 1/4" = 1'-0"



PLUMBING WATER FLOOR PLAN-BUILDING B

2 1/4" = 1'-0"

PLUMBING PLAN NOTES:

1 REFER TO THE CIVIL SITE PLAN FOR CONTINUATION OF THE LINE.

2 REFER TO THE WATER ENTRY DETAIL 2 ON SHEET PM2.01.

3 PROVIDE A 1/2" UNDERGROUND COLD WATER LINE FROM A TRAP PRIMER TO TIE INTO THE DRAIN. (SEE DETAIL 4 ON SHEET PM2.01)

4 INSTALL ALL PLUMBING LINES AS CLOSE TO THE CHASE WALLS AS POSSIBLE FOR MAXIMUM OWNER MAINTENANCE AND CLEAR FLOOR SPACE.

5 INVERT DEPTH IS APPROXIMATELY 3'.

PLUMBING GENERAL NOTES:

1. PAINT ALL ROOF AND WALL PENETRATIONS TO MATCH ROOF/WALL COLOR. COLOR TO BE SELECTED BY THE ARCHITECT.

2. NO HOSE BIBB SHALL BE INSTALLED ON SPLIT FACE BLOCKS AND/OR JOINTS. HOSE BIBB SHALL BE MOUNTED ON SMOOTH FACE OF CMU AT THE HORIZONTAL CENTERLINE OF THE BLOCK, CAULK AROUND THE HOSE BIBB.

3. ALL WASTE PIPING SHALL BE 4" UNLESS OTHERWISE NOTED.

4. ALL VENT PIPING SHALL BE 2" UNLESS OTHERWISE NOTED.

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103591
STATE OF TENNESSEE
Timothy M. Harms
02-25-2021

HARMS ENGINEERING, INC
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS

C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN

750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

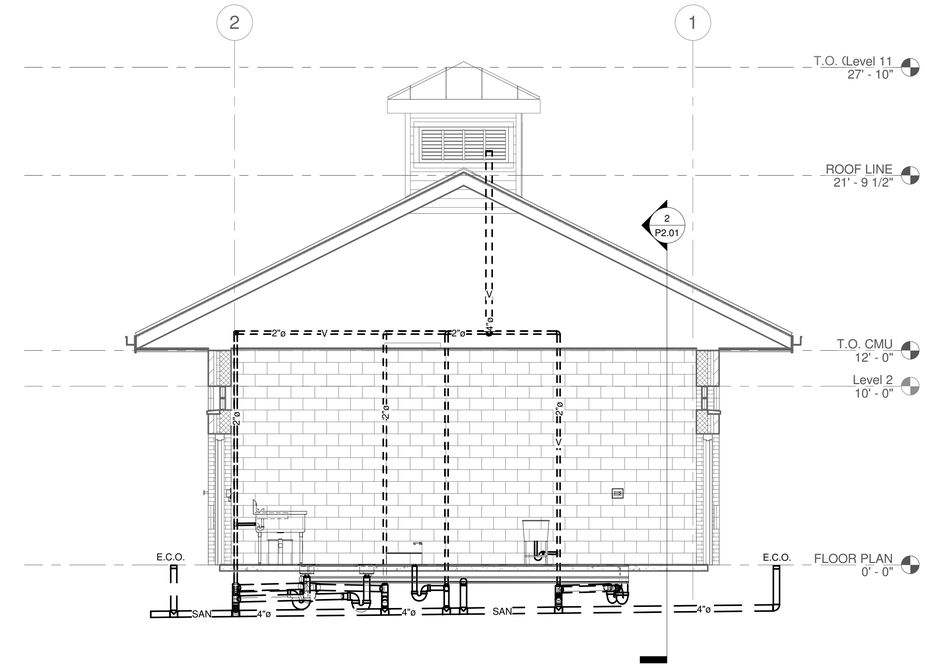
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

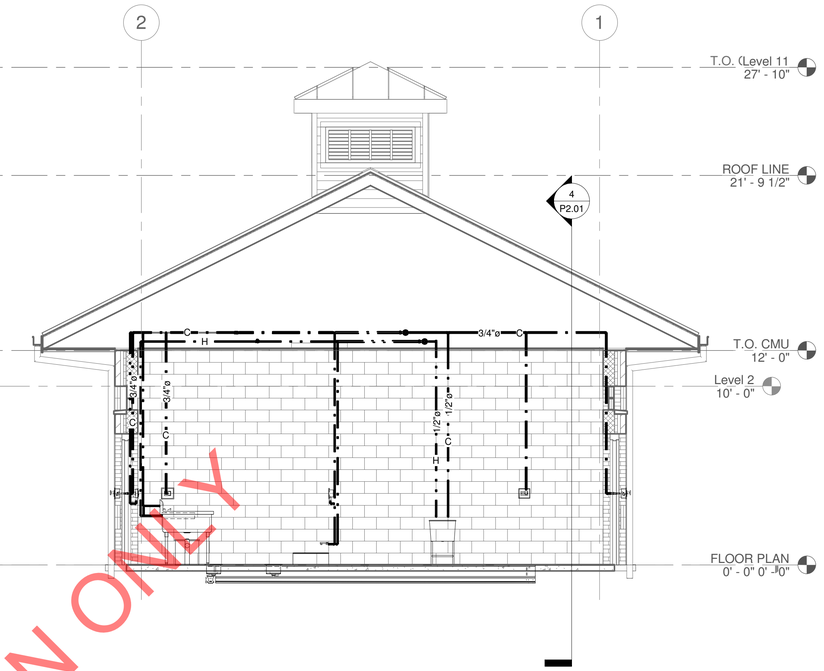
SHEET TITLE

PLUMBING FLOOR PLANS - BUILDING B

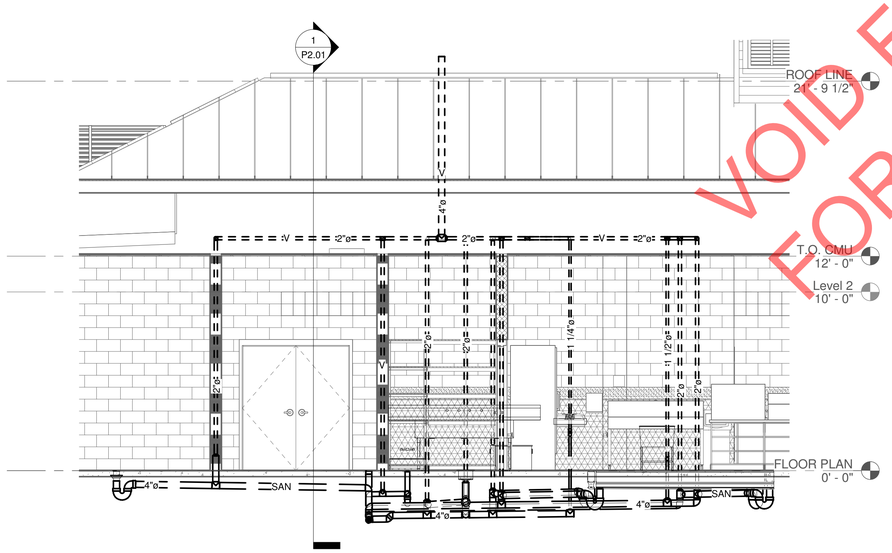
PROJECT NO. **18062-3**	DATE **02/25/2021**
DRAWN BY **TMH**	SCALE **1/4" = 1'-0"**
CHECKED BY **TMH**	
SHEET NO. P1.02	



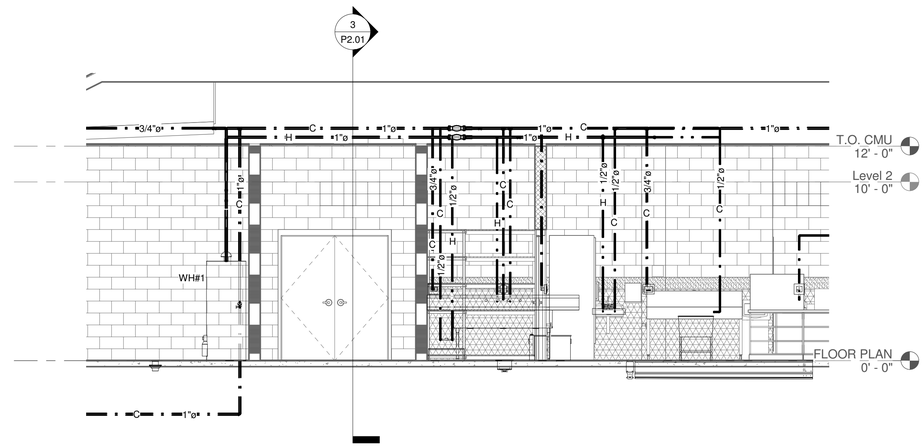
1 WASTE & VENT SECTION 1-BUILDING A
1/4" = 1'-0"



3 WATER SECTION 1-BUILDING A
1/4" = 1'-0"



2 WASTE & VENT SECTION 2-BUILDING A
1/4" = 1'-0"



4 WATER SECTION 2-BUILDING A
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
Timothy M. Harms
COMMERCIAL
No. 109351
STATE OF TENNESSEE
02-25-2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

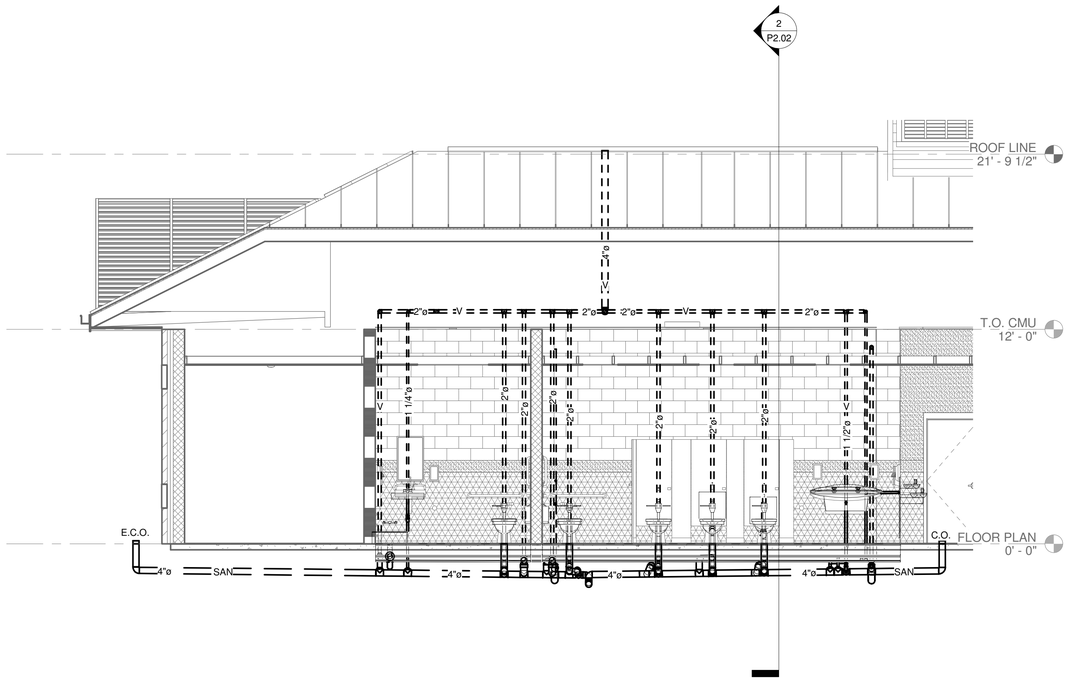
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

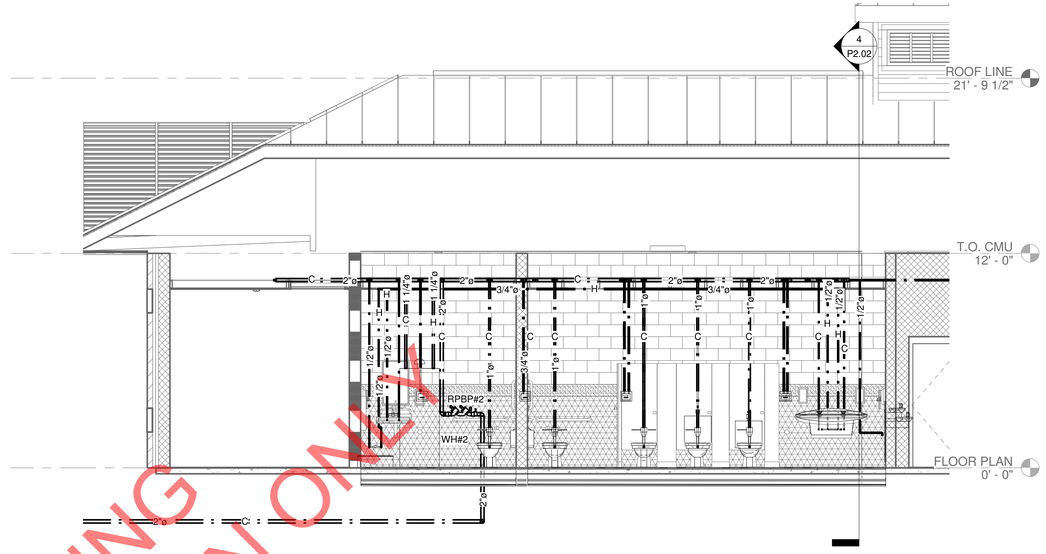
SHEET TITLE
PLUMBING SECTIONS - BUILDING A

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE 1/4" = 1'-0"
CHECKED BY TMH	

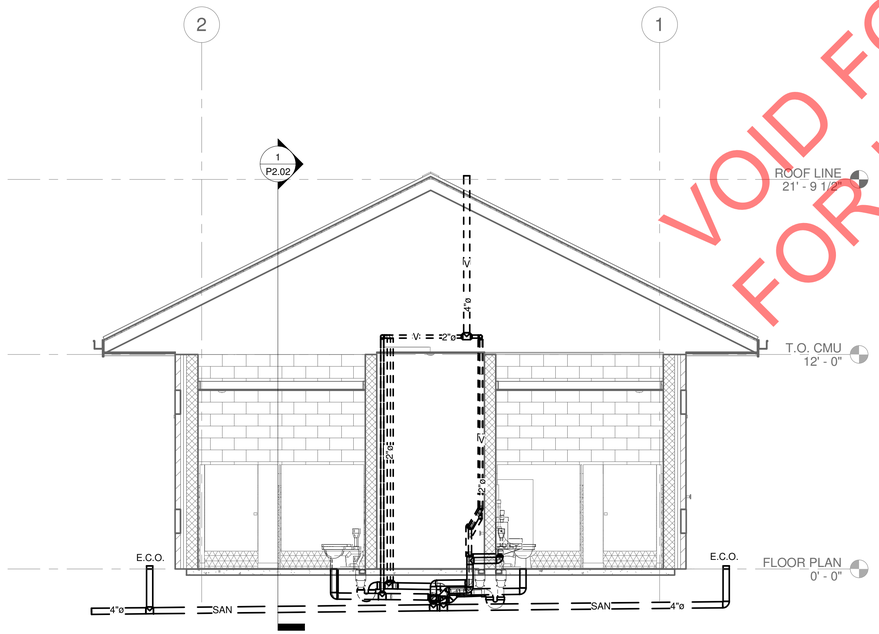
SHEET NO.
P2.01



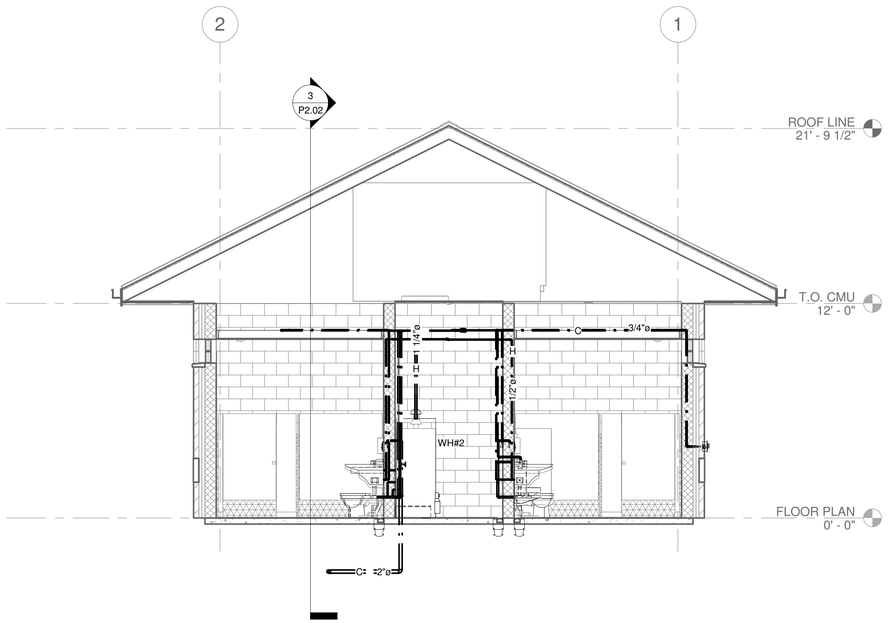
1 WASTE & VENT SECTION 3-BUILDING B
1/4" = 1'-0"



3 WATER SECTION 3-BUILDING B
1/4" = 1'-0"



2 WASTE & VENT SECTION 4-BUILDING B
1/4" = 1'-0"



4 WATER SECTION 4-BUILDING B
1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
COMMERCIAL
No. 109351
STATE OF TENNESSEE
02-25-2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

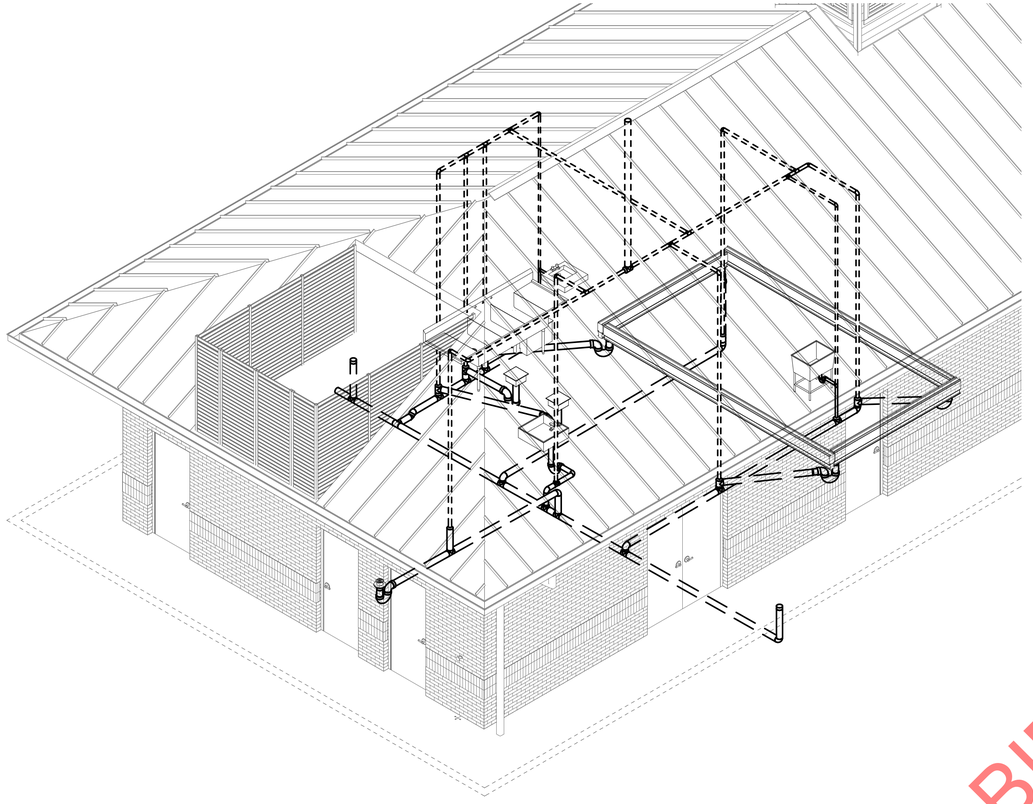
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

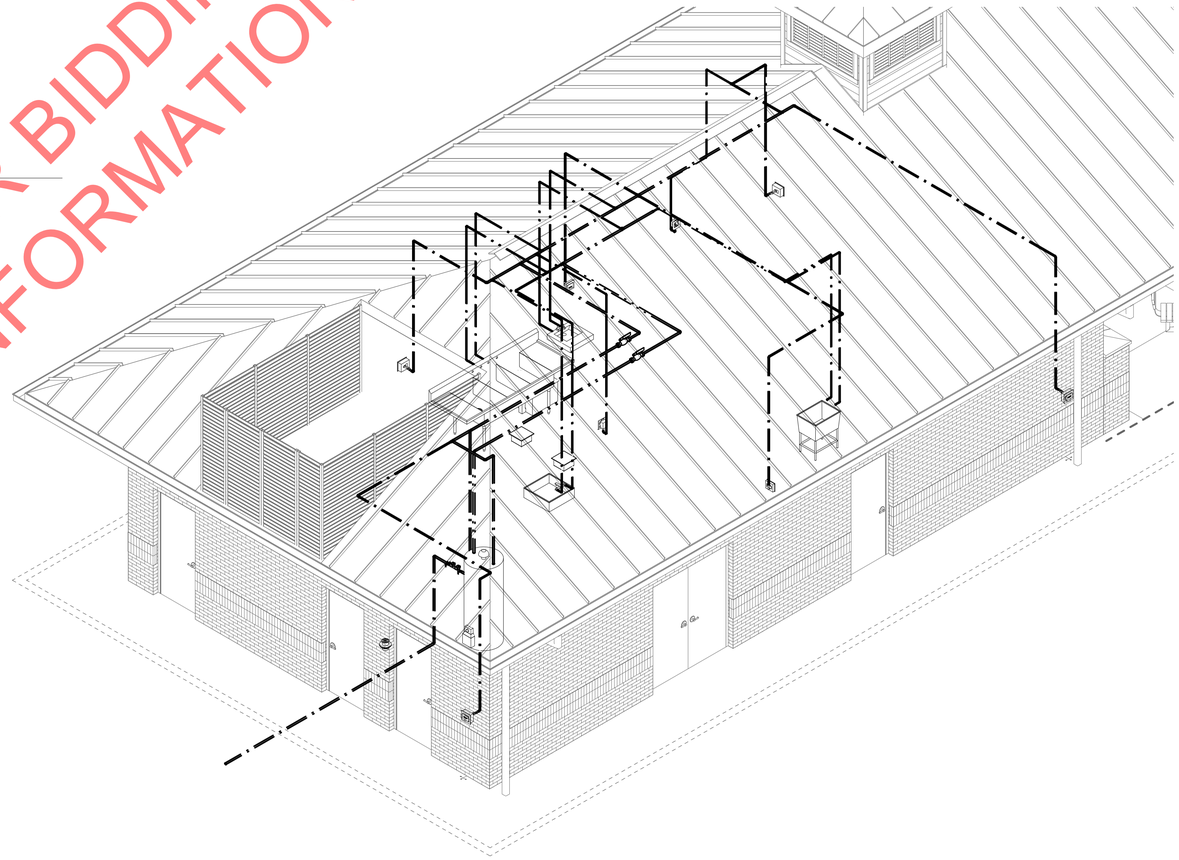
SHEET TITLE
PLUMBING SECTIONS - BUILDING B

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: TMH	SCALE: 1/4" = 1'-0"
CHECKED BY: TMH	

SHEET NO.
P2.02



1 WASTE & VENT 3D FLOOR PLAN - BUILDING A



2 WATER 3D FLOOR PLAN - BUILDING A

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
Timothy M. Harms
COMMISSION No. 109359
STATE OF TENNESSEE
02.25.2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS

C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

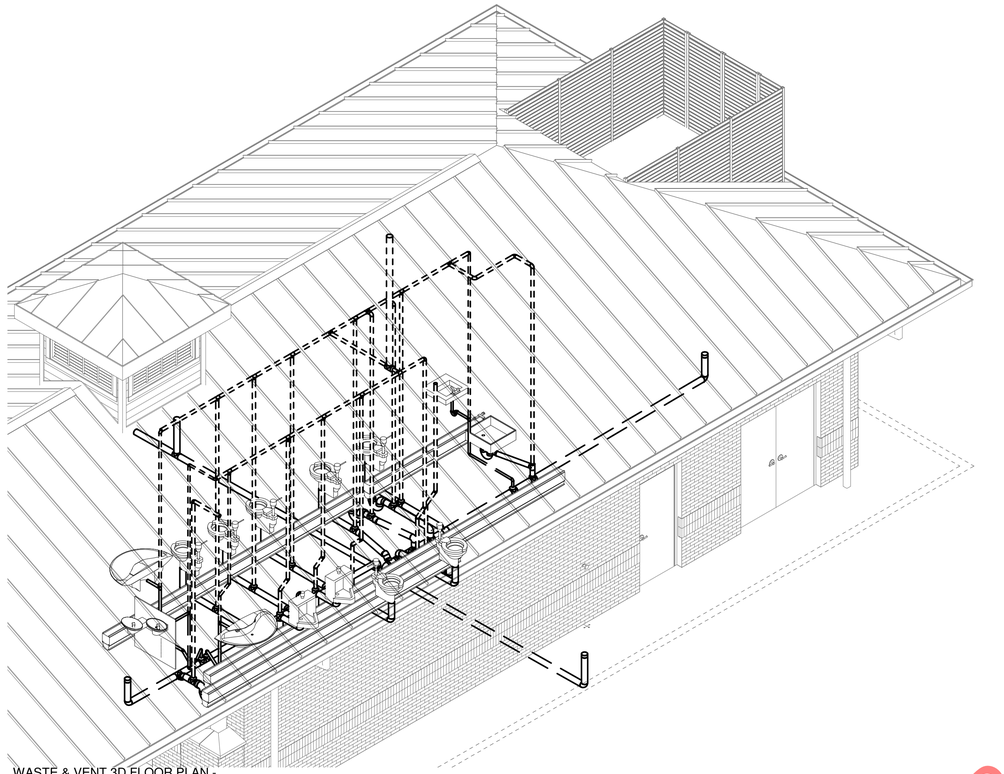
SHEET TITLE

PLUMBING 3D FLOOR PLANS - BUILDING A

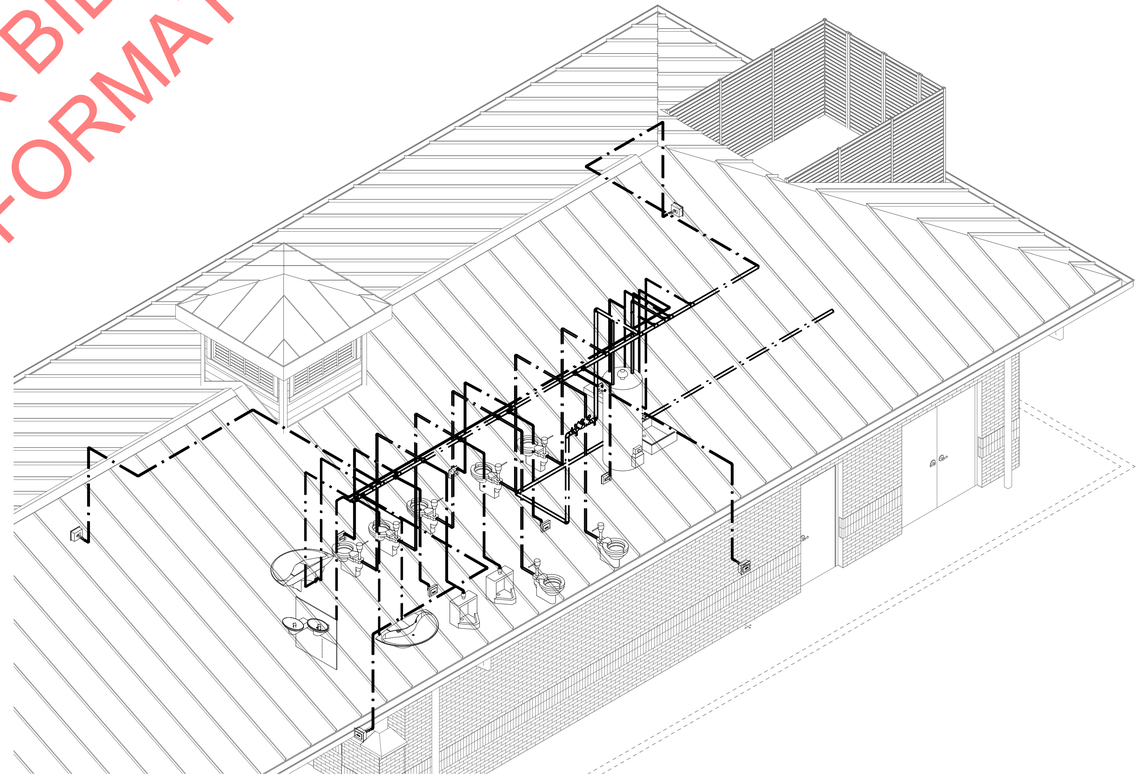
PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE
CHECKED BY TMH	

SHEET NO.

P3.01



1 WASTE & VENT 3D FLOOR PLAN - BUILDING B



2 WATER 3D FLOOR PLAN - BUILDING B

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
COMMERCIAL
No. 109539
STATE OF TENNESSEE

02-25-2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

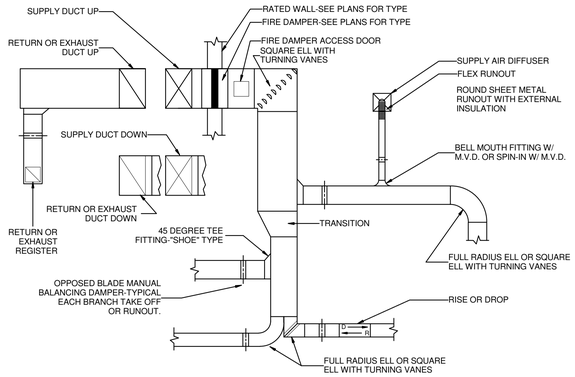
SHEET TITLE

PLUMBING 3D FLOOR PLANS - BUILDING B

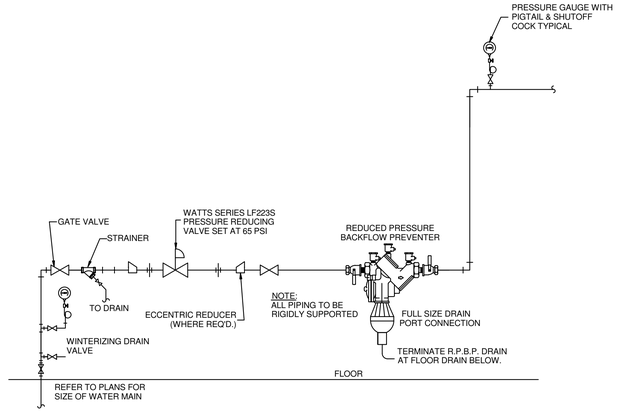
PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE
CHECKED BY TMH	

SHEET NO.

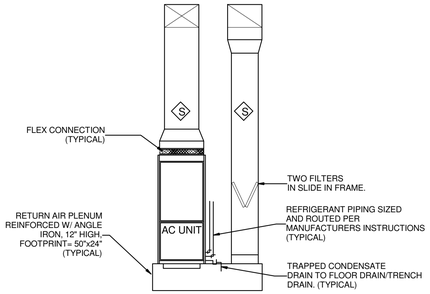
P3.02



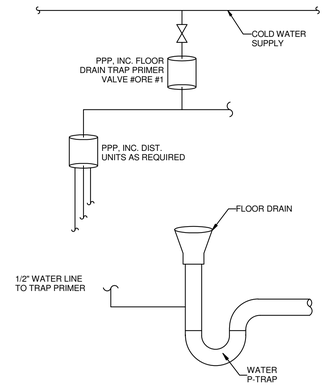
1 PM2.01 TYPICAL SUPPLY, RETURN OR EXHAUST DUCT SYSTEM
NOT TO SCALE



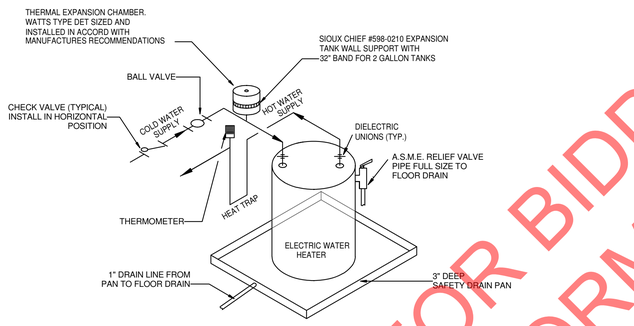
2 PM2.01 WATER ENTRY RISER ASSEMBLY DETAIL
NOT TO SCALE



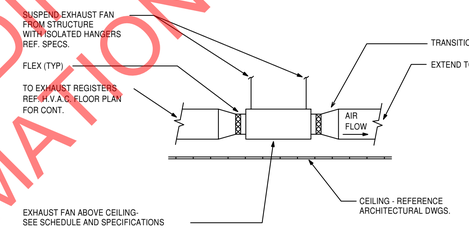
3 PM2.01 AC UNIT DETAIL (AC#1,3)
NOT TO SCALE



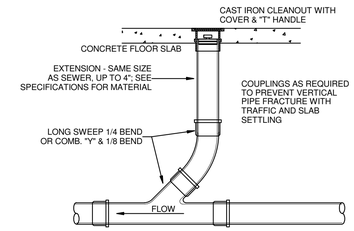
4 PM2.01 TRAP PRIMER/FLOOR DRAIN DETAIL(TPV)
NOT TO SCALE



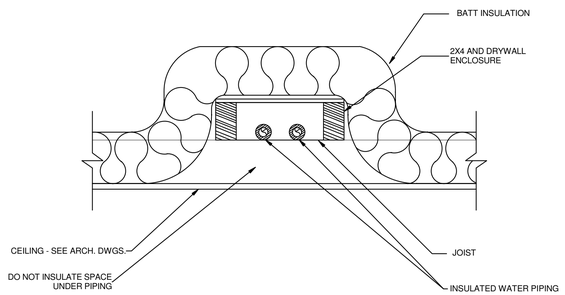
5 PM2.01 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



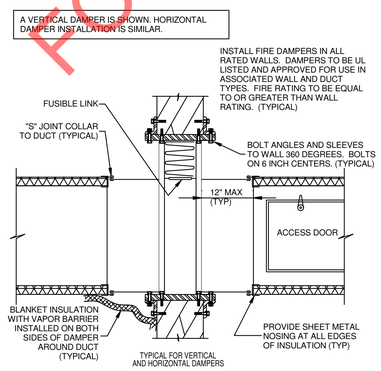
6 PM2.01 IN-LINE EXHAUST FAN
NOT TO SCALE



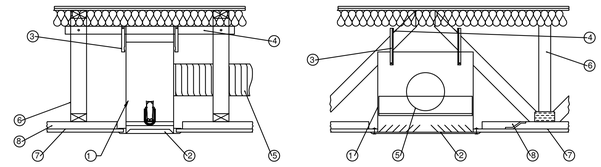
7 PM2.01 EXTERIOR(E.C.O.)/INTERIOR(C.O.) CLEANOUT DETAIL
NOT TO SCALE



8 PM2.01 WATER PIPING INSTALLED IN ATTIC
NOT TO SCALE



9 PM2.01 FIRE DAMPER DETAIL
NOT TO SCALE



1. DAMPER ASSEMBLY-1HR (RUSKIN #CFD21 ASSEMBLY CONSISTS OF A UL555C TESTED CEILING DAMPER FACTORY INSTALLED IN AN R6 INSULATED BOX; FUSIBLE LINK TO BE 212 F)
2. GRILLE (0.025 STEEL MIN)
3. 3/4" X 3/4" X 26 GA (16 x 16 x 0.55) OR 18 SWG STEEL WIRE (MIN)
4. 3/4" X 3/4" X 26 GA (16 x 16 x 0.55) OR 2" X 4" (51 x 102) WOOD STUD SUPPORT
5. DUCT UL CLASSIFIED AIR DUCT (CLASS 0 OR 1)
6. WOOD TRUSS (SEE UL DESIGN #P-522)
7. 5/8" (16) GYPSUM WALLBOARD (SEE UL DESIGN #P-522)
8. RC-CHANNEL
9. 1" X 1" X 22 GA (25 X 25 X 0.85) RETAINING ANGLE (MIN)
10. AIR DUCT

UL 555C SYSTEM

10 PM2.01 UL555C 1-HR CEILING RADIATION DAMPER DETAIL
NOT TO SCALE

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
Timothy M. Harms
COMMERCIAL
No. 107570
STATE OF TENNESSEE
02-25-2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

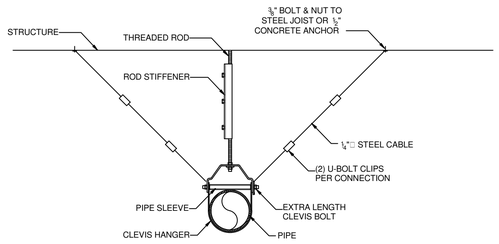
SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

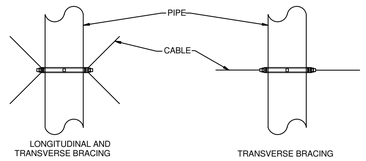
SHEET TITLE
HVAC AND PLUMBING DETAILS

PROJECT NO.	DATE
18062-3	02/25/2021
DRAWN BY: TMH	SCALE
CHECKED BY: TMH	

SHEET NO.
PM2.01



SECTION VIEW



PLAN VIEW

1 PM2.02 SEISMIC PIPE RESTRAINTS DETAIL
NOT TO SCALE

1. PROVIDE SEISMIC RESTRAINTS ON ALL FLEXIBLY MOUNTED HVAC EQUIPMENT, DUCTWORK, AND PIPING EXCEPT AS FOLLOWS.:

A. PIPING (OTHER THAN GAS) IN BOILER & MECHANICAL ROOMS LESS THAN 1¼" INSIDE DIAMETER.
B. ALL OTHER PIPING (EXCEPT GAS) LESS THAN 2 ½" INSIDE DIAMETER.
C. ALL RECTANGULAR AIR-HANDLING DUCTS LESS THAN 6 SQUARE FEET IN CROSS-SECTIONAL AREA.
D. ALL ROUND AIR-HANDLING DUCTS LESS THAN 28"□.
E. ALL PIPING (OTHER THAN GAS) SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
F. ALL DUCT SUSPENDED BY HANGERS 12" OR LESS LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

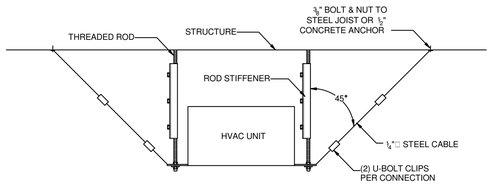
2. SEISMIC RESTRAINTS ARE SIZED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. FOR GROUP 2 HAZARD EXPOSURE AND IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL. FOR SEISMIC HAZARD LEVEL "C" OTHER METHODS OF RESTRAINT IN ACCORDANCE WITH THE SEISMIC RESTRAINT MANUAL ARE ACCEPTABLE.

3. PROVIDE TRANSVERSE BRACING ON DUCTWORK AT 50' ON CENTER AND LONGITUDINAL/TRANSVERSE BRACING AT END OF DUCT AND AT 80' ON CENTER. SEE SEISMIC MANUAL FOR FURTHER SPECIFIC LIMITATIONS ON BRACING.

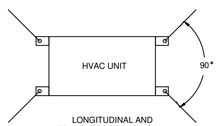
4. TRANSVERSE BRACING ON PIPING SHALL BE AT 40' MAX. LONGITUDINAL BRACING ON PIPING SHALL BE 80' MAX. SEE SEISMIC MANUAL FOR FURTHER SPECIFIC LIMITATIONS ON BRACING.

5. SEE "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" FOR DETAILS OF ANCHORS TO STRUCTURE.

4 PM2.02 SEISMIC RESTRAINT NOTES
NOT TO SCALE

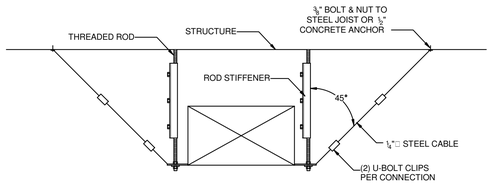


SECTION VIEW

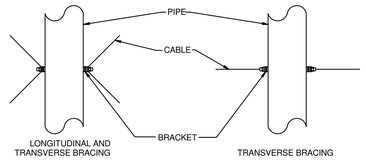


PLAN VIEW

2 PM2.02 SEISMIC HVAC EQUIPMENT RESTRAINTS DETAIL
NOT TO SCALE

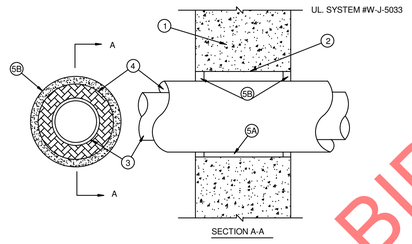


SECTION VIEW



PLAN VIEW

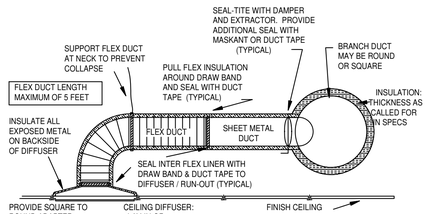
3 PM2.02 SEISMIC DUCT RESTRAINTS DETAIL
NOT TO SCALE



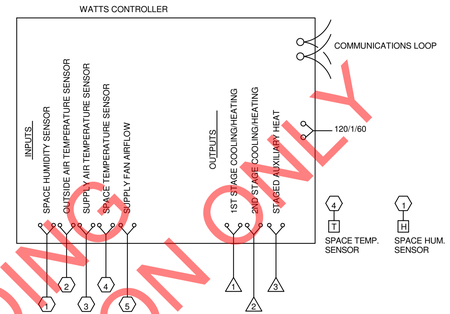
1. Wall Assembly-Concrete Block.
2. Steel Wire Mesh-Cylindrical sleeve fabricated from No. 8 steel wire mesh and having a min 3 in. lap along the longitudinal seam. Length of steel mesh to be 1 in. less than thickness of wall. Steel wire mesh to be centered and formed to fit periphery of through opening.
3. Through Penetrants-The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe-Nom 10 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
B. Iron Pipe-Nom 10 in. diam (or smaller) cast or ductile iron pipe.
C. Copper Tubing-Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Pipe-Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
4. Pipe Covering*-Nom 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between insulated pipe and periphery of opening shall be min 3/4 in. to max 1-1/2 in.
5. Firstop System-The firestop system shall consist of the following:
A. Packing Material-Min 3-1/8 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material*-Caulk-Min 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.
RECTORSEAL-Metacaulk 1000

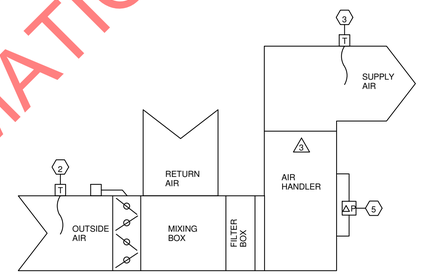
*bearing the UL classification mark.

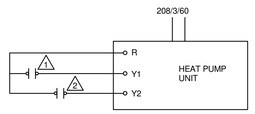
5 PM2.02 METAL PIPE PENETRATION (4HR & 2HR RATING)
NOT TO SCALE



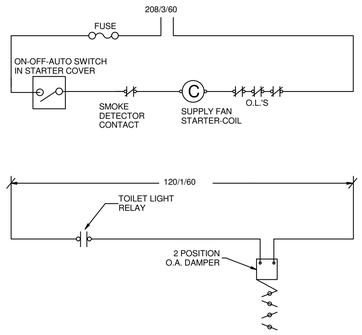
6 PM2.02 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

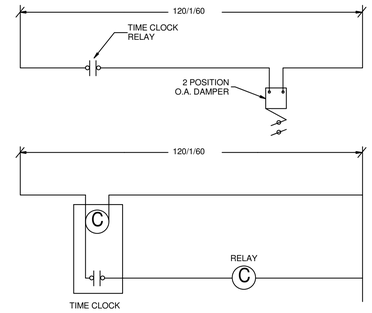






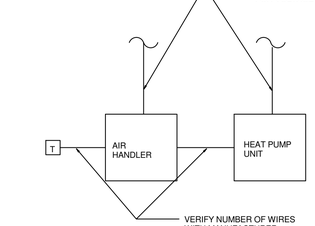
7 PM2.02 HEAT PUMP CONTROL (AC #3)
NOT TO SCALE



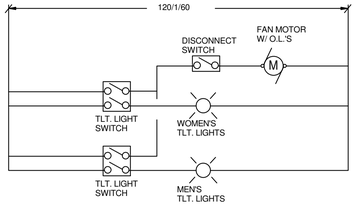


NOTE; PROVIDE A TIME CLOCK FOR EACH UNIT.

8 PM2.02 TIME CLOCK RELAY (AC #1)
NOT TO SCALE



9 PM2.02 HEAT PUMP CONTROL (AC #1)
NOT TO SCALE



10 PM2.02 EXHAUST FAN CONTROL (EF #1)
NOT TO SCALE

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
COMMERCIAL
No. 102539
STATE OF TENNESSEE
02.25.2021

HARMS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

SHEET TITLE
HVAC AND PLUMBING DETAILS AND CONTROLS

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE
CHECKED BY TMH	

SHEET NO.
PM2.02

GENERAL MECHANICAL LEGEND

	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	FLEX DUCTWORK
1i 200 CFM	TERMINAL TAG
———	SUPPLY DUCT
— — —	RETURN DUCT
— — — —	EXHAUST DUCT
T	THERMOSTAT
H	HUMIDISTAT
F	FIRE DAMPER

GENERAL PLUMBING LEGEND

— — — SAN — — —	SANITARY DRAIN
—C — · — · — · —	COLD WATER
—H— - - ———	HOT WATER
— — — — -V — — — —	VENT PIPING
P-1	PLUMBING FIXTURE IDENTIFICATION
VTR	VENT THRU ROOF
	CHECK VALVE
	BALL VALVE
	BALANCING VALVE

EXHAUST FAN SCHEDULE

EQUIP NO.	EF#1	---
TYPE	IN-LINE	---
SERVICE	SEE PLANS	---
CFM	675	---
STATIC PRESSURE	.375"	---
SONES	5.5	---
HP	301 WATTS	---
VOLTAGE	120/1/60	---
ACCESSORIES	NOTE 1,2	---
DAMPER TYPE	BACKDRAFT	---
SCREEN TYPE	---	---
MANUFACTURER	COOK	---
MODEL #	GN-740	---

1. PROVIDE FSC CONTROL AT FAN TO OBTAIN CFM.
2. INTERLOCK FAN WITH THE LIGHTS.

HEAT PUMP SYSTEM SCHEDULE

EQUIP NO.	AC #1	---
TYPE	VERTICAL	---
SERVICE	SEE PLANS	---
ACCESSORIES	NOTE 1-6	---
FILTERS	1" FARR	---
OTHER	---	---
FAN	---	---
TOTAL CFM	1600	---
MIN. OA CFM	150	---
EXTERNAL S.P.	.4	---
H.P.	1/3	---
VOLTAGE	208/1/60	---
COOLING COIL	---	---
TOTAL CAP. (MBH)	48	---
E.A.D.B./E.A.W.B.	77 F/63 F	---
HEATING COIL	---	---
MBH @ 17	28.8	---
E.A.D.B./L.A.D.B.	61.5 F/ 93 F	---
K.W./M.B.H.	10/25.6	---
STAGES	2	---
VOLTAGE	208/3/60	---
MODEL #	CBX32M-048	---
HEAT PUMP UNIT	TWO STAGE	---
TYPE	AIR-COOLED	---
LOW AMB. CONT.	YES, 0 F	---
OADB/SEER	95 F/14	---
VOLTAGE	208/3/60	---
COMP. F.L.A.	13.5	---
COND. FAN F.L.A.	1.8	---
C.U. MCA/MFSA	18.6/30	---
MODEL #	SPB048H4S	---
MANUFACTURER	LENNOX	---

1. PROVIDE PROGRAMMABLE THERMOSTAT.

2. PROVIDE LOW AMBIENT CONTROLS.

3. PROVIDE DX COOLING COIL.

4. PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND RETURN OF AC #1.

5. PROVIDE R-410A REFRIGERANT; PROVIDE ACCUMULATOR AND CRANKCASE HEATER.

6. SEQUENCE OF OPERATION FOR AC #1.

THE UNIT WILL BE STARTED/STOPPED BASED UPON THE PROGRAMMABLE T'STAT SET POINTS. THE OUTSIDE AIR DAMPER WILL MOVE TO THE OPEN POSITION IN THE OCCUPIED MODE AND TO THE CLOSED POSITION IN THE UNOCCUPIED MODE.

NIGHT SETBACK-THE SUPPLY FAN WILL BE NORMALLY OFF WHILE UNOCCUPIED, BUT WILL BE STARTED TO PROVIDE HEATING OR COOLING SHOULD THE SPACE TEMPERATURES FALL BELOW OR RISE ABOVE THEIR RESPECTIVE NIGHT SETBACK HEATING AND COOLING SETPOINTS. IN NIGHT SETBACK MODE THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED.

SAFETIES-THE UNIT WILL BE STOPPED AND ALL CONTROLS WILL GO TO THEIR NORMAL POSITIONS SHOULD THE SMOKE DETECTOR TRIP.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

DESIGNAT.	DESCRIP.	MANUFACTURER	MODEL	DAMPER	FINISH
ALL TYP.	CLG DIFF.	TITUS	TMS	NO	WHITE
ALL TYP.	RET. REG.	TITUS	50F	NO	WHITE
ALL TYP.	EXH REG.	TITUS	50F	NO	WHITE
A	CLG. DIFF.	ACCUTHERM	THERMAFUSER	NO	WHITE

HEAT PUMP SPLIT SYSTEM

EQUIP NO.	AC #2	---
TYPE	CLG. MTD.	---
SERVICE	SEE PLANS	---
ACCESSORIES	---	---
FILTERS	YES	---
OTHER	1,2,3	---
FAN	---	---
TOTAL CFM	380	---
MOCP	15.0	---
VOLTAGE	208/1/60	---
COOLING COIL	---	---
TOTAL CAP. (MBH)	12.0	---
HEATING COIL	---	---
MBH	10.1	---
VOLTAGE	208/1/60	---
MODEL #	PLA-A12EA7	---
CONDENSING UNIT	---	---
TYPE	AIR-COOLED	---
LOW AMB. CONT.	YES, 0 F	---
OADB/EER	95 F/16.4	---
VOLTAGE	208/1/60	---
COMP. AMPS	7	---
COND. FAN AMPS	.5	---
C.U. MCA/MOCP	11/28	---
MODEL #	PUZ-A12NKA7	---
MANUFACTURER	MITSUBISHI	---

1. PROVIDE THERMOSTAT AND STANDARD HEAT PUMP CONTROL PACKAGE.

2. PROVIDE LOW AMBIENT CONTROLS.

3. PROVIDE R-410A REFRIGERANT.

4. INSTALL THE REFRIGERANT PIPING PER THE MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH ½" THICK ARMSTRONG FR/ARMAFLEX FLEXIBLE ELASTOMERIC CLOSED CELL INSULATION.

100% O.A. SPLIT W/ ELEC. HEAT

EQUIP NO.	AC #3	---
TYPE	VERTICAL	---
SERVICE	SEE PLANS	---
DX COOLING COIL	---	---
TOT. CAP. (MBH)	59	---
SENS. CAP. (MBH)	34	---
EADB/EAWB	88.5 F/74 F	---
LADB/LAWB	56.7 F/56 F	---
HOT GAS REHEAT	21 MBH	---
LADB/LAWB	75 F/63 F	---
TOTAL CFM	1000	---
MIN. OA CFM	675	---
ESP	1.0	---
FAN HP	1.34	---
FILTER	2" FARR	---
VOLTAGE	208/3/60	---
MANUFACTURER	AAON	---
HEATING COIL	---	---
MBH @ 22 F	42.7	---
EADB/LADB	31 F/84.5 F	---
K.W.	16.9	---
STAGES	3	---
VOLTAGE	208/3/60	---
A.H. MCA/MOCP	62/70	---
MODEL #	V3-BRB-B-D-161C-553-AABC-FA0-000-GA0-WAA0D0-00-D0000000	---
MANUFACTURER	AAON	---
CONDENSING UNIT	---	---
TYPE	AIR-COOLED	---
OADB/EER	95 F/ 11.3	---
VOLTAGE	208/3/60	---
COMPRESSOR FLA	16.9	---
COND. FAN FLA	2.8	---
C.U. MCA/MOCP	24/40	---
ACCESSORIES	SEE NOTES *	---
MODEL #	CB-B-060-8-D-1 DGK0GA0	---
MANUFACTURER	AAON	---

NOTES *

1. PROVIDE A SMOKE DETECTOR IN THE SUPPLY & RETURN OF AC #3. DUCT SMOKE DETECTORS SHALL HAVE A BUTTON TO TEST OPERATION.

2. PROVIDE WATTMASTER #SPA-ACP-0004CAV-RH CONTROLLER.

3. PROVIDE REFRIGERANT 410A.

WATER HEATER SCHEDULE

W.H. #	MANUFACTURER	MODEL #	SYS.	QTY.	K.W.	VOLTAGE	EWT	LWT	GALLON STORAGE	FLOW REC.(GPH)	TANK HT.	TANK DIA.	REMARKS
WH#1,2	A.O. SMITH	DEN-52	DOM.	2	9.0	208/1/60	40 F	110 F	50.0	51.0	55"	21"	1,2,3

1. WATER HEATER TO PROVIDE 4.5 KW SIMULTANEOUS DUAL ELEMENT OPERATION.
2. PROVIDE HEAT TRAP ON PIPING FOR WATER HEATER.
3. PROVIDE INSULATION COVER OVER WATER HEATER.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

RPBP #	MANUFACTURER	MODEL #	QTY.	SIZE	GPM	PRESS. DROP	SERVING
RPBP #1	WATTS	LF009 QT	1	1 INCH	21	13.0 PSIG	DOM. WTR.
RPBP #2	WATTS	LF009 QT	1	2 INCH	80	13.0 PSIG	DOM. WTR.

FIXTURE CONNECTION SCHEDULE

P-#	DESCRIPTION	C.W. (IN.)	H.W. (IN.)	WASTE (IN.)	VENT (IN.)	NOTES
P-1	WATER CLOSET (FLOOR MTD., FLUSH VALVE, HANDICAP ACCESSIBLE)	1	-	4	2	1,2,5
P-2	WATER CLOSET (FLOOR MTD., FLUSH VALVE)	1	---	4	2	1,2,5
P-3	URINAL (WALL MTD., HANDICAP ACCESSIBLE)	3/4	---	4	2	1,2,5
P-4	URINAL (WALL MTD.)	3/4	---	4	2	1,2,5
P-5	LAVATORY (WALL MTD., HANDICAP ACCESSIBLE)	1/2	1/2	1 1/4	1 1/4	1,3,5
P-6	NOT USED	---	---	---	---	---
P-7	FLOOR SINK	---	---	4	2	4,5
P-8	FLOOR DRAIN	---	---	4	2	4,5
P-9	JANITOR'S SINK	1/2	1/2	3	2	4,5
P-10	WALL HYDRANT (FREEZE PROOF)	3/4	---	---	---	4,5
P-11	WALL HYDRANT	3/4	---	---	---	4,5
P-12	SINK (THREE COMPARTMENT, S.S.)	1/2	1/2	1 1/2	1 1/2	5
P-13	ICE MAKER CONNECTION/COFFEE MAKER CONNECTION	1/2	---	---	---	5
P-14	DRINKING FOUNTAIN (HI/LOW, S.S., BOTTLE FILLER, HANDICAP ACCESSIBLE)	1/2	---	1 1/4	1 1/4	4,5
P-15	SERVICE SINK	1/2	1/2	3	2	1,5
P-16	TRENCH DRAIN	---	---	4	2	4,5
P-17	LAVATORY (WALL MTD., SEMI-CIRCULAR, TWO FAUCET, HANDICAP ACCESSIBLE)	1/2	1/2	1 1/2	1 1/2	1,5

1. EQUALS BY ELJER, KOHLER, CRANE, OF APPROVED EQUAL QUALITY.
2. PROVIDE MIN. 18" HIGH AIR CHAMBER.
3. PROVIDE INSULATE WASTE & WATER WITH TRUEBRO HANDI LAV-GUARD SYSTEM FOR ALL ACCESSIBLE LAVATORIES.
4. EQUALS BY ZURN, JR SMITH, WADE, OASIS.
5. ALL FIXTURES TO BE APPROVED BY THE OWNER.

PLUMBING FIXTURES:

P-1 WATER CLOSET (HANDICAP ACCESSIBLE)
AMERICAN STANDARD #3461.712 FLOOR MOUNTED AT 17" AFF, VITREOUS CHINA, 1-1/2" TOP-SPUD, ELONGATED RIM TOILET; ZURN #ZEMS6153AV-HET-HW6-MJ SENSOR W/ CONCEALED FLUSH VALVE(1.28GPF), PUSH BUTTON CAN NOT BE MORE THAN 36" AFF; CENTOCO #500CCSS OPEN FRONT SEAT WITH COVER. ZURN #P6000-HW6 POWER CONVERTER.

P-2 WATER CLOSET
AMERICAN STANDARD #3451.712 FLOOR MOUNTED, VITREOUS CHINA, 1-1/2" TOP-SPUD, ELONGATED RIM TOILET; ZURN #ZEMS6153AV-HET-HW6-MJ SENSOR W/ CONCEALED FLUSH VALVE(1.28GPF). PUSH BUTTON CAN NOT BE MORE THAN 36" AFF; CENTOCO #500CCSS OPEN FRONT SEAT LESS COVER. ZURN #P6000-HW6 POWER CONVERTER.

P-3 URINAL (WALL MTD., HANDICAP ACCESSIBLE)
AMERICAN STANDARD #6590.501 WALL MOUNTED AT 17" AFF TO TOP OF URINAL LIP, VITREOUS CHINA, 3/4" TOP SPUD, URINAL, PROVIDE WALL HANGER; ZURN #ZEMS6197AV-EWS-HW6-MJ SENSOR W/ CONCEALED FLUSH VALVE(.5 GPF). MCGUIRE #1233 STRAINER; #P6000 POWER CONVERTER.

P-4 URINAL (WALL MTD.)
AMERICAN STANDARD #6590.501 WALL MOUNTED, VITREOUS CHINA, 3/4" TOP SPUD, URINAL, PROVIDE WALL HANGER; ZURN #ZEMS6197AV-EWS-HW6-MJ SENSOR W/ CONCEALED FLUSH VALVE(.5 GPF). MCGUIRE #1233 STRAINER; #P6000 POWER CONVERTER.

P-5 LAVATORY (HANDICAP ACCESSIBLE)
AMERICAN STANDARD #0355.012 WALL MOUNTED AT 34" AFF, VITREOUS CHINA, WITH WALL HANGER (PROVIDE ZURN #Z-1231-SL FOR 8" BLOCK WALL); ZURN #Z6915-XL-J-MT-MV-ACA SENSOR FAUCET, POLISHED CHROME-PLATED, FAUCET HOLES 4" ON CENTER; MCGUIRE #155WC OFFSET HANDICAP GRID DRAIN, MCGUIRE #H-2165LK SUPPLY PIPES, STOP VALVES, AND P-TRAP. ZURN #P6000-HW6 POWER CONVERTER.

P-6 NOT USED

P-7 FLOOR SINK
ZURN #Z1902, PROVIDE WITH HALF GRATE.

P-8 FLOOR DRAIN
J.R. SMITH #2005, DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER.

P-9 JANITOR'S SINK
FIAT #MSB2424 MOP SINK WITH 830-AA SERVICE FAUCET, MCGUIRE H-2165 SUPPLIES W/STOPS AND P-TRAP.

P-10 WALL HYDRANT(FREEZE PROOF)
WOODFORD #B65 WALL HYDRANT WITH BOX AND DOOR

P-11 WALL HYDRANT
WOODFORD #B74 WALL HYDRANT WITH BOX AND DOOR, PROVIDE VACUUM BREAKER WITH WALL HYDRANT.

P-12 SINK (THREE COMPARTMENT, S.S.)
ELKAY #RNSF8354LR-2 THREE COMPARTMENT SINK, STAINLESS STEEL, ELKAY #LK940DS20L2H FAUCET WITH 1.5 GPM INSERT, ELKAY #LK24RT DRAINS(THREE), MCGUIRE H-2165 SUPPLIES W/STOPS AND MCGUIRE 8912 P-TRAP, SINK TO HAVE THE ONE FAUCET TWO HOLE PUNCH, IN LIEU OF THE TWO FAUCET FOUR HOLE PUNCH.

P-13 ICE MAKER CONNECTION/COFFEE MAKER CONNECTION
GUY GREY BOX WITH ½" CW VALVE.

P-14 DRINKING FOUNTAIN (HANDICAP ACCESSIBLE, HI/LOW, WITH BOTTLE FILLER)
HALSEY TAYLOR #HTHB-OVLSEBP-I, STAINLESS STEEL TOP AND BODY, WITH BOTTLE FILLER. PROVIDE STOP, SUPPLY, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION. 1/2" C.W., 1 1/4" SAN. MOUNT 33"LOW TO SPOUT AND 38"HIGH TO SPOUT.

P-15 SERVICE SINK
REGENCY 18" 16-GUAGE S.S. ONE COMPARTMENT SINK WITHOUT DRAINBOARD (18"x18"x4") BOWL; POLISHED CHROME FAUCET WITH SPOUT ON 8" CENTERS,ONE GRID DRAIN, ONE P-TRAP, AND TWO SUPPLY LINES;MCGUIRE H-2165 SUPPLIES W/STOPS.

P-16 TRENCH DRAIN
J.R. SMITH #9665 6" WIDE MODULAR SHALLOW STAINLESS STEEL TRENCH DRAIN SYSTEM WITH BOTTOM OUTLET;6" WIDE x LENGTH SHOWN ON THE ARCH. DRAWINGS; PROVIDE J.R. SMITH #9870-447-SSADA STAINLESS STEEL GRATE; PROVIDE A P-TRAP.

P-17 LAVATORY (WALL MTD., SEMI-CIRCULAR, HANDICAP ACCESSIBLE)
BRADLEY # CRS-2-IRP-TMA-CHAR-COAL WALL MOUNTED AT 34" AFF, TERREON SOLID SURFACE MATERIAL, SENSOR FAUCET; HANDICAP GRID DRAIN, SUPPLY PIPES, STOP VALVES, AND P-TRAP. 120V/12V PLUG IN ADAPTER.

LOSE DESIGN
SPACES FOR LIFE.

TIMOTHY MICHAEL HARMS
REGISTERED ENGINEER
COMMISSION NO. 101531
STATE OF TENNESSEE
02-25-2021

HARMS ENGINEERING, INC.
NASHVILLE, TENNESSEE
HARMSENGINEERING.NET

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

PREPARED FOR:
CITY OF FRANKLIN
750 NEW HIGHWAY 96 WEST, FRANKLIN, TENNESSEE 37064

SUBMITTALS / REVISIONS

NO	DATE	DESCRIPTION

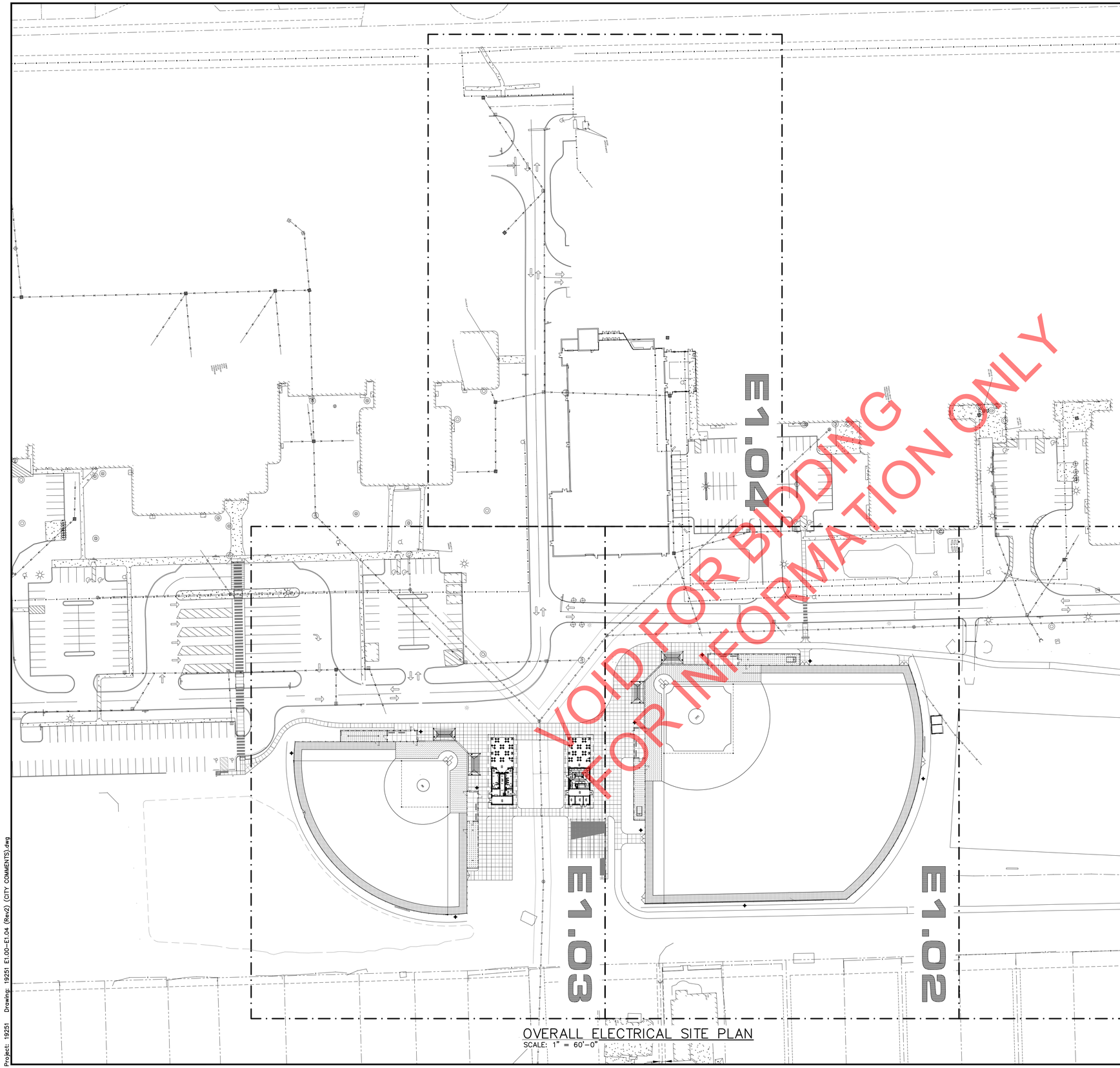
SHEET TITLE

HVAC AND PLUMBING LEGENDS AND SCHEDULES

PROJECT NO. 18062-3	DATE 02/25/2021
DRAWN BY TMH	SCALE 1/8" = 1'-0"
CHECKED BY TMH	

SHEET NO.

PM3.01



OVERALL ELECTRICAL SITE PLAN
SCALE: 1" = 60'-0"

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED ENGINEER
AGRICULTURE
No. 106073
STATE OF TENNESSEE
2/25/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS

NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

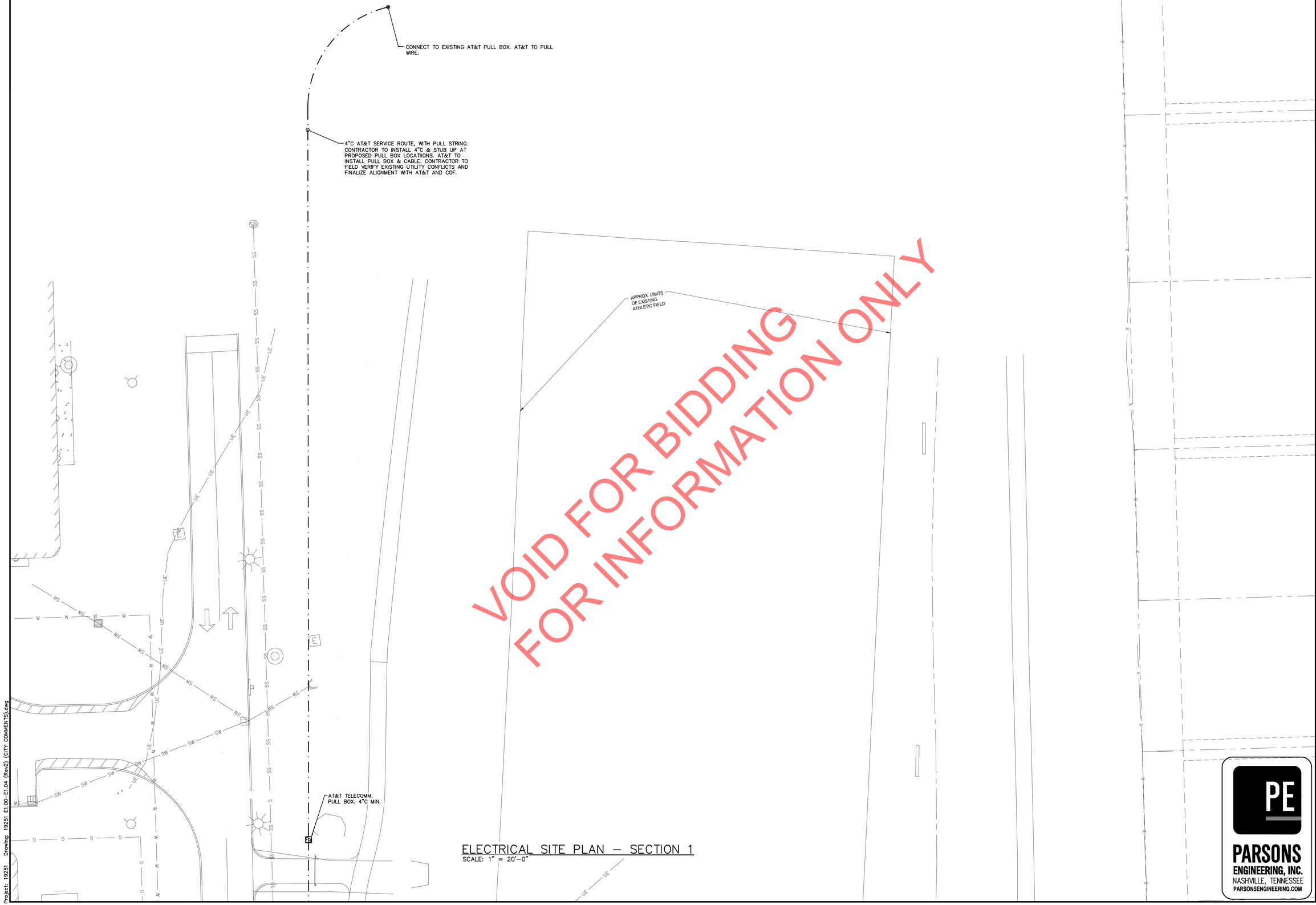
SHEET TITLE
ELECTRICAL
SITE PLAN
SECTION 1

PROJECT NO.	DATE
18062-1	02/25/2021
DRAWN BY	SCALE
TAL	AS SHOWN
CHECKED BY	
AJP	

SHEET NO.
E1.00

PE
PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Project: 19251 Drawing: 19251 E1.00-E1.04 (Rev2) (CITY COMMENTS).dwg



ELECTRICAL SITE PLAN – SECTION 1
SCALE: 1" = 20'-0"

Project: 19251 Drawing: 19251 E1.00-E1.04 (Rev2) (CITY COMMENTS).dwg

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED LANDSCAPE ARCHITECT
AGRICULTURE
No. 106073
STATE OF TENNESSEE
4/21/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS

NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
ELECTRICAL SITE PLAN SECTION 1

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E1.01

PE
PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

4"C AT&T SERVICE ROUTE, WITH PULL STRING. CONTRACTOR TO INSTALL 4"C & STUB UP AT PROPOSED PULL BOX LOCATIIONS. AT&T TO INSTALL PULL BOX & CABLE.

SEE SHEET E1.10 FOR ELECTRICAL WORK ASSOCIATED WITH BALL FIELDS

AT&T TELECOMM PULL BOX. CONTRACTOR TO STUB UP 4"C. AT&T TO INSTALL PULL BOX AND PULL ALL CABLE.

PROPOSED UTILITY PAD MOUNTED TRANSFORMER

ELECTRICAL SERVICE PULL BOX.

ELECTRICAL SECONDARY ROUTE. SEE RISER, SHEET E3.1.

3-1/2"C PROPOSED ELECTRICAL SECONDARY ROUTE. 4"C AT&T SERVICE ROUTE, WITH PULL STRING. CONTRACTOR TO INSTALL 4"C & STUB UP AT PROPOSED PULL BOX LOCATIIONS. AT&T TO INSTALL PULL BOX & CABLE.

FFE 657.30'

ELECTRICAL SITE PLAN – SECTION 2
SCALE: 1" = 20'-0"

Project: 19251 Drawing: 19251 E1.00-E1.04 (Rev2) (CITY COMMENTS).dwg

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED LANDSCAPE ARCHITECT
AGRICULTURE
No. 106073
STATE OF TENNESSEE
2/25/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN TENNESSEE

REVISIONS

NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
ELECTRICAL SITE PLAN SECTION 2

PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E1.02

ELECTRICAL SERVICE PULL BOX.

AT&T TELECOMM PULL BOX. CONTRACTOR TO STUB UP 4"C. AT&T TO INSTALL PULL BOX AND PULL ALL CABLE.

3.5"C PROPOSED ELECTRICAL SECONDARY ROUTE. 4"C AT&T SERVICE ROUTE. CONTRACTOR TO INSTALL 4"C & STUB UP AT PROPOSED PULL BOX LOCATIONS. AT&T TO INSTALL PULL BOX & CABLE.

BUILDING "A", SEE SHEET E2.0.

A1-25

A1-17

BUILDING "B", SEE SHEET E2.1.

FOLLOW WATER LINE ROUTE AND PROVIDE 5' SEPARATION.

A1-17

WP

FOR IRRIGATION RECLAIM VAULT. VERIFY EXACT LOCATION AND REQUIREMENTS.

SECURITY CAMERA

SEE SHEET E1.10 FOR ELECTRICAL WORK ASSOCIATED WITH BALL FIELDS

ELECTRICAL SITE PLAN – SECTION 3

SCALE: 1" = 20'-0"

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PETZ
REGISTERED ENGINEER
AGRICULTURE
No. 106073
STATE OF TENNESSEE
4/21/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS
CONSTRUCTION DOCUMENTS		

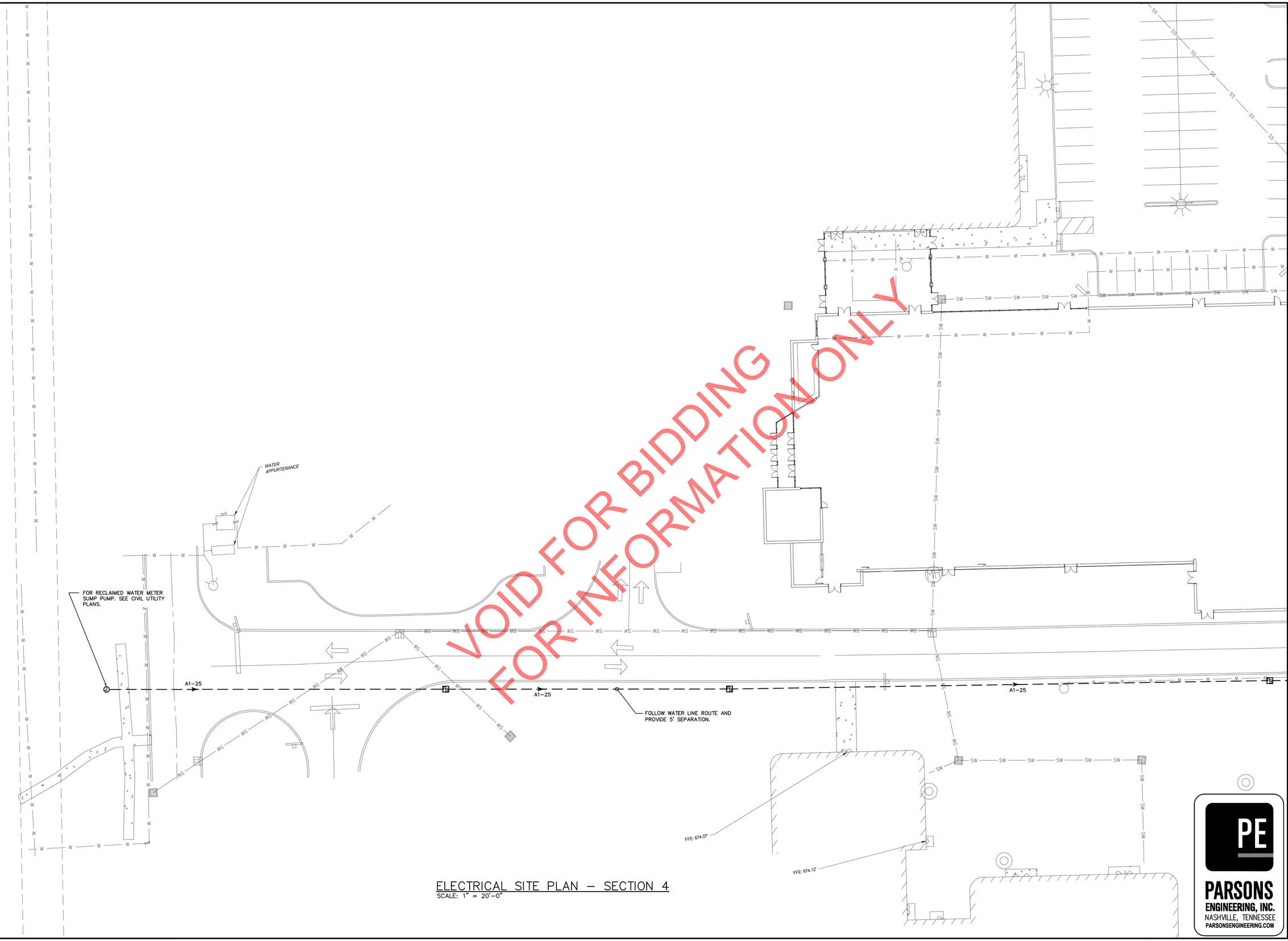
SHEET TITLE
ELECTRICAL SITE PLAN SECTION 3

PE
PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E1.03

Project: 19251 Drawing: 19251 E1.00-E1.04 (Rev2) (CITY COMMENTS).dwg



ELECTRICAL SITE PLAN – SECTION 4
SCALE: 1" = 20'-0"

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED ENGINEER
AGRICULTURE
No. 106075
STATE OF TENNESSEE
2/25/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS

NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
ELECTRICAL
SITE PLAN
SECTION 4

PE
PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

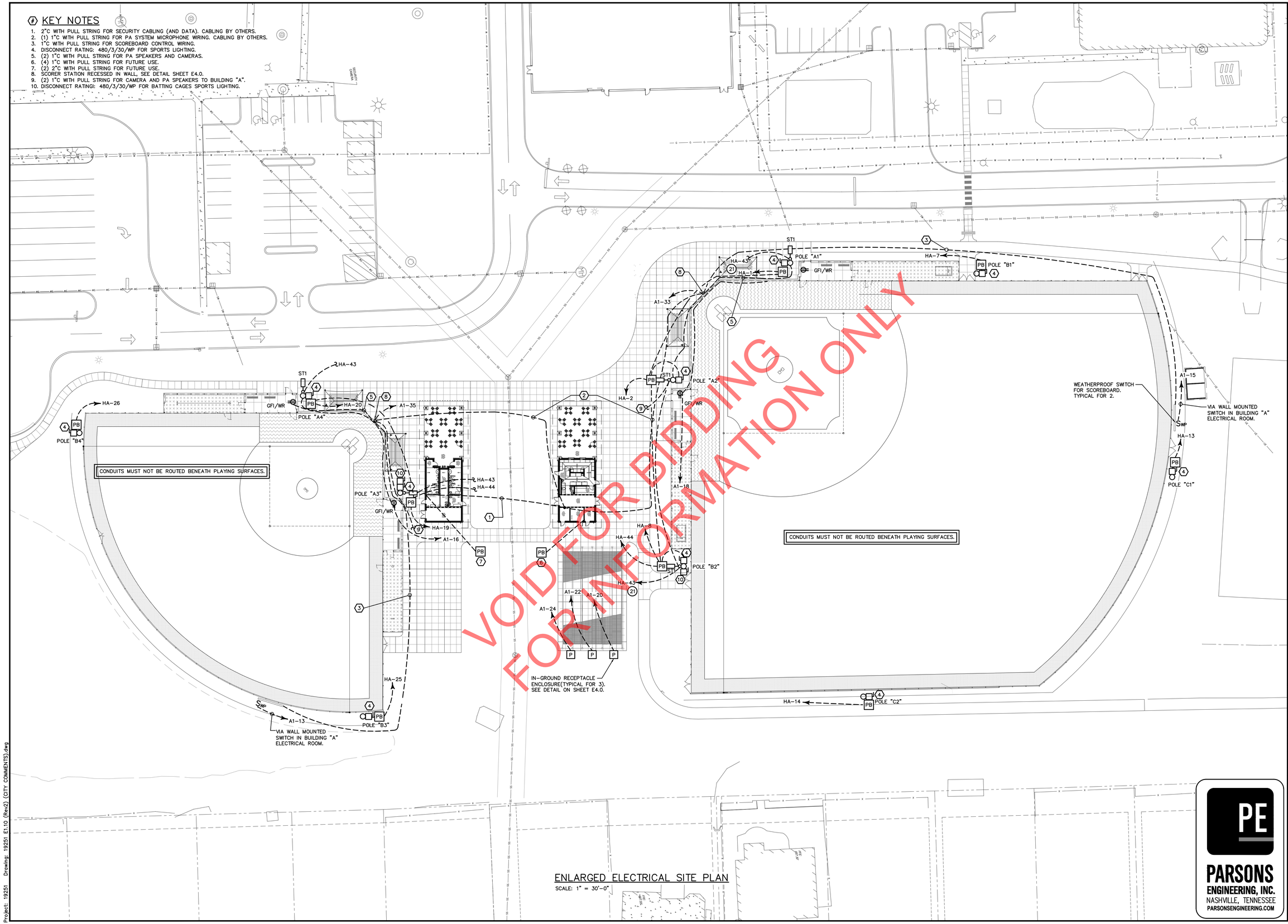
PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E1.04

Project: 19251 Drawing: 19251 E1.00-E1.04 (Rev2) (CITY COMMENTS).dwg

KEY NOTES

1. 2"C WITH PULL STRING FOR SECURITY CABLING (AND DATA). CABLING BY OTHERS.
2. (1) 1"C WITH PULL STRING FOR PA SYSTEM MICROPHONE WIRING. CABLING BY OTHERS.
3. 1"C WITH PULL STRING FOR SCOREBOARD CONTROL WIRING.
4. DISCONNECT RATING: 480/3/30/WP FOR SPORTS LIGHTING.
5. (2) 1"C WITH PULL STRING FOR PA SPEAKERS AND CAMERAS.
6. (4) 1"C WITH PULL STRING FOR FUTURE USE.
7. (2) 2"C WITH PULL STRING FOR FUTURE USE.
8. SCORER STATION RECESSED IN WALL. SEE DETAIL SHEET E4.0.
9. (2) 1"C WITH PULL STRING FOR CAMERA AND PA SPEAKERS TO BUILDING "A".
10. DISCONNECT RATING: 480/3/30/WP FOR BATTING CAGES SPORTS LIGHTING.



ENLARGED ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED ENGINEER
AGRICULTURE
No. 106073
STATE OF TENNESSEE

2/25/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

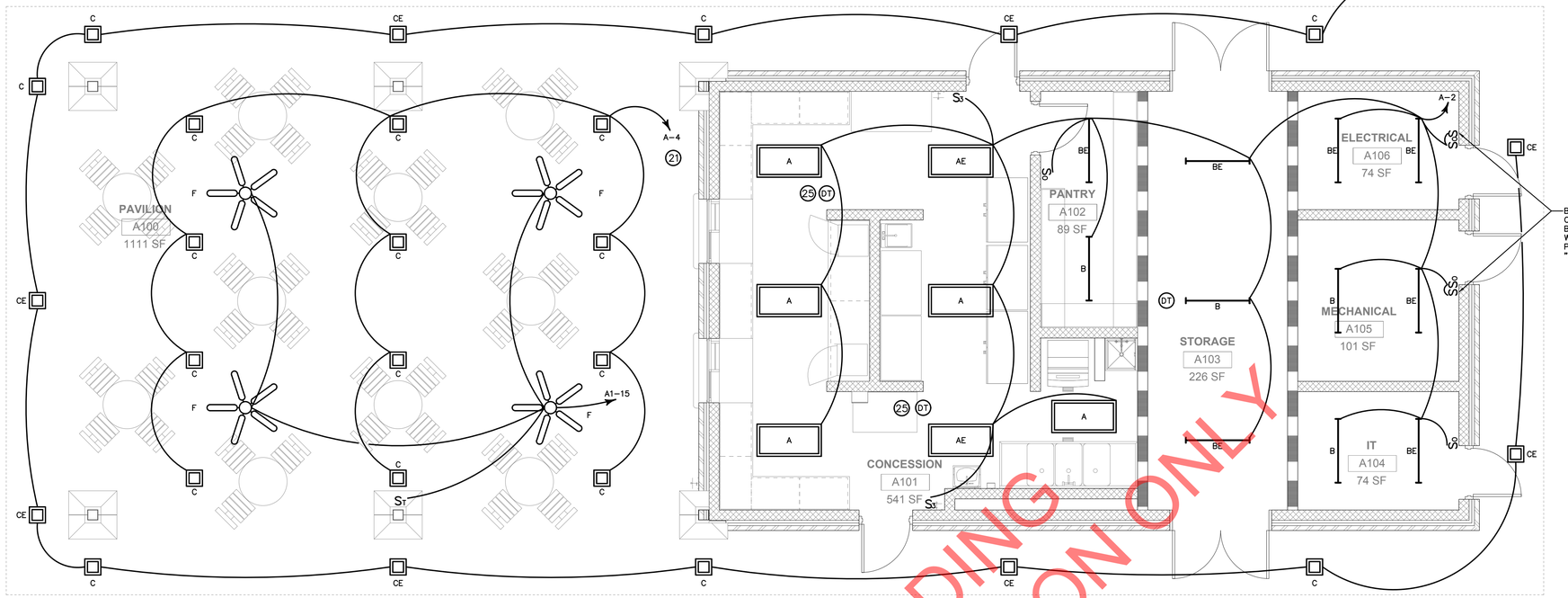
SHEET TITLE
ENLARGED ELECTRICAL SITE PLAN

PROJECT NO.	DATE
18062-1	02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E1.10

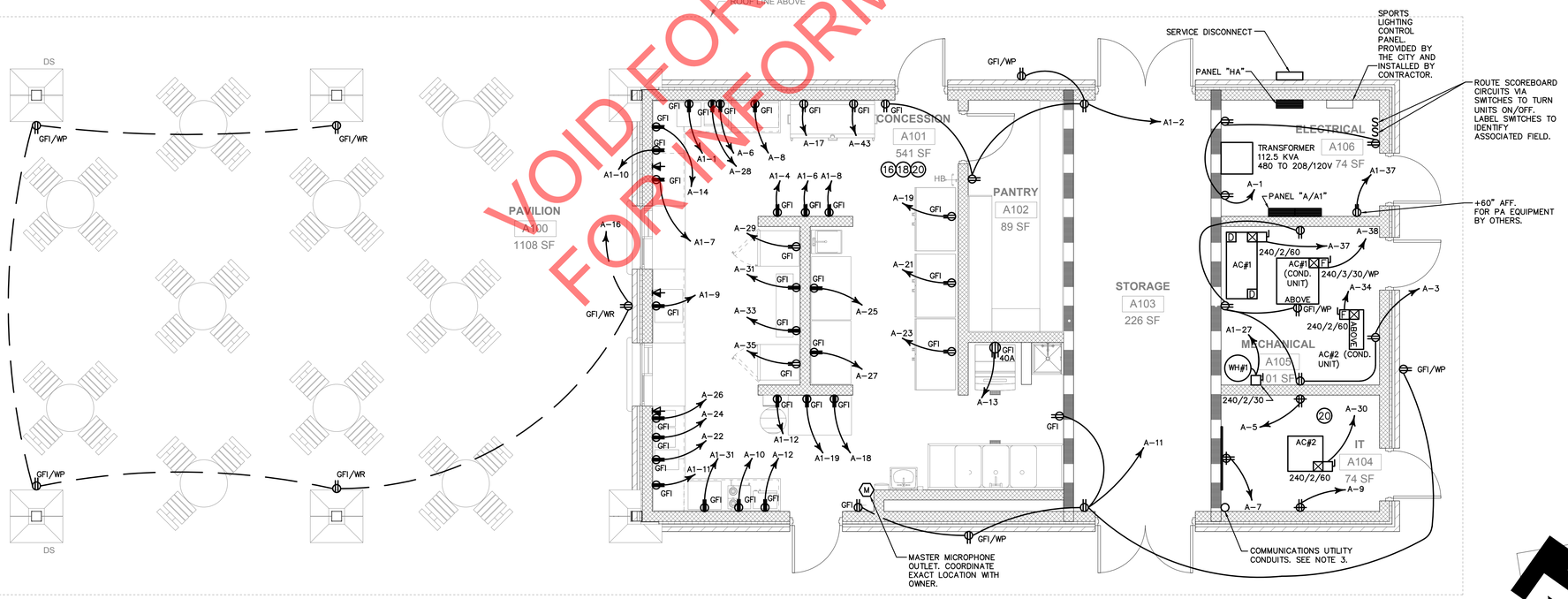
PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Project: 19251 Drawing: 19251 E1.10 (Rev2) (CITY COMMENTS).dwg



BUILDING A – LIGHTING PLAN

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



BUILDING A – POWER PLAN

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

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED ENGINEER
AGRICULTURE
106073
STATE OF TENNESSEE
2/25/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

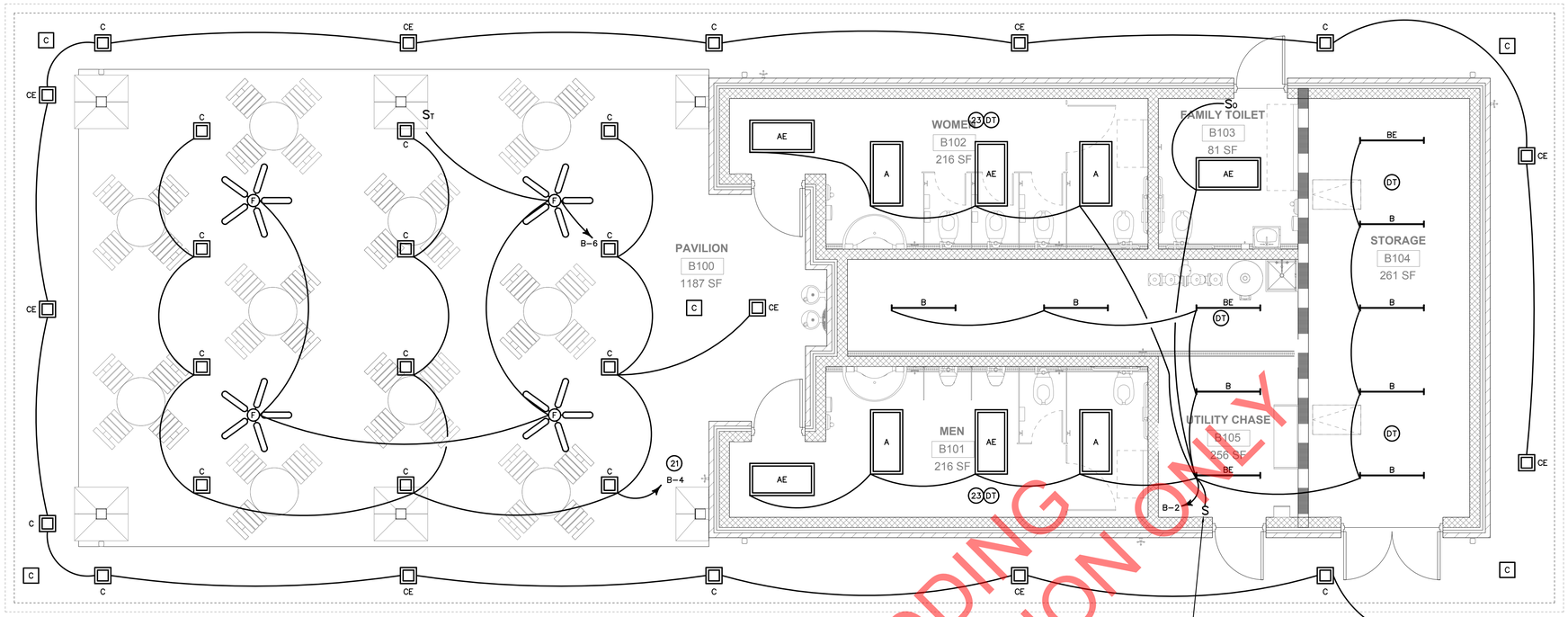
SHEET TITLE
BUILDING A
ELECTRICAL
PLAN

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

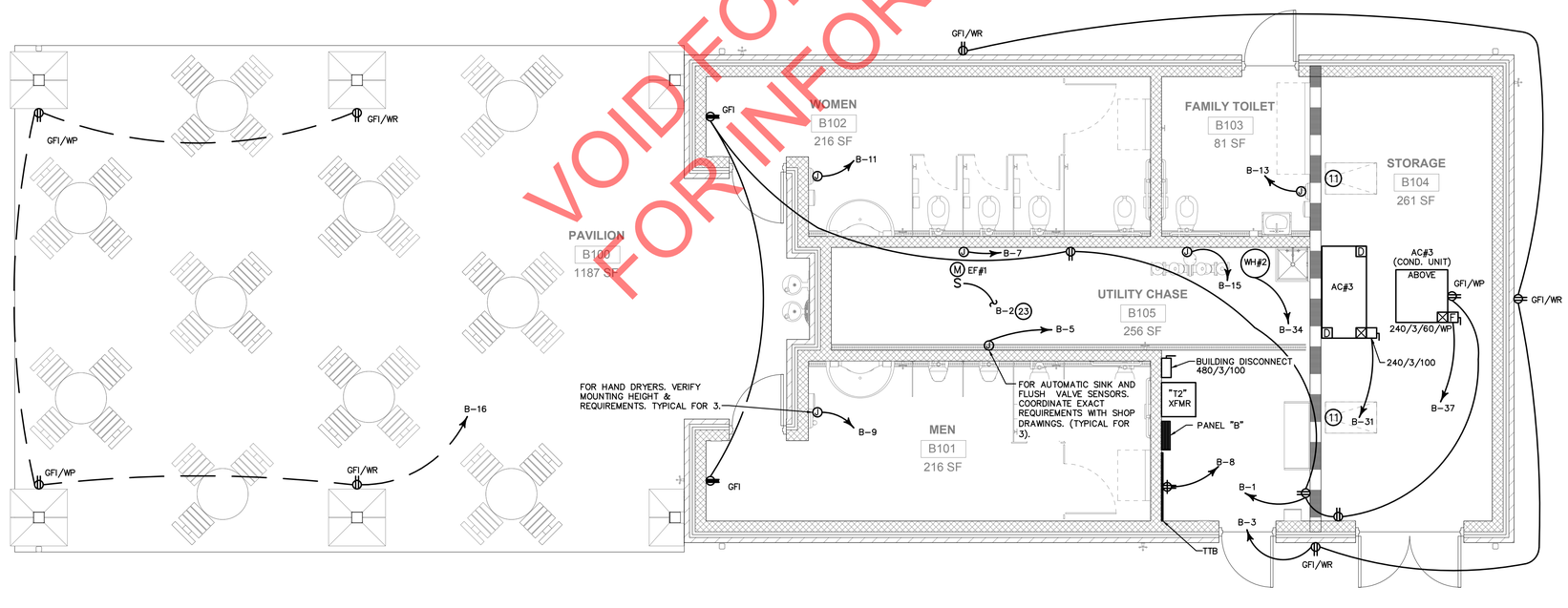
SHEET NO.
E2.0

PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Project: 19251 Drawing: 19251 E2.0 – BLDG A – CONCESSIONS (Rev2) (CITY COMMENTS).dwg



BUILDING B – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



BUILDING B – POWER PLAN
SCALE: 1/4" = 1'-0"

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PETZ
REGISTERED ENGINEER
AGRICULTURE
No. 106073
STATE OF TENNESSEE
2/25/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
BUILDING B
ELECTRICAL
PLAN

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E2.1

PE
PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

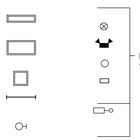
Project: 19251 Drawing: 19251 E2.1 – BLDG B – RESTROOMS (Rev2).dwg

ELECTRICAL LEGEND

MOUNTING HEIGHTS MEASURED TO ℄

COORDINATE WITH ARCHITECT/OWNER'S REP FOR CONFIRMATION OF DEVICE MOUNTING HEIGHT (NO HIGHER THAN 54" PER ADA) PRIOR TO ROUGH-IN. TYPICAL FOR ALL LIGHT SWITCHES (INCLUDING DIMMERS & OCCUPANCY/VACANCY SENSORS), BUTTON/CONTROL STATIONS AND FIRE ALARM PULL STATIONS WHERE APPLICABLE.

- CONDUIT RUN CONCEALED IN WALL, CEILING, OR FLOOR
- CONDUIT RUN, CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT RUN, INSTALLED EXPOSED
- HOMERUN TO PANEL INDICATED
- RECEPTACLE, DUPLEX, 120V, 15A. UNO, @ 18" AFF TO BOTTOM
- RECEPTACLE, DUPLEX, 120V, 15A. UNO, SMH
- RECEPTACLE, QUADRAPLEX, 120V, 15A. UNO, @ 18" AFF TO BOTTOM
- RECEPTACLE, QUADRAPLEX, 120V, 15A. UNO, SMH
- RECEPTACLE, SINGLE, 250V, AMPS AS NOTED, @ 18" AFF TO BOTTOM
- (J) JUNCTION BOX, SIZE AS REQUIRED
- S SWITCH, SINGLE POLE, 120/277V, 20A, 48" AFF TO TOP OF DEVICE.
- S_2 SWITCH, TWO POLE, 120/277V, 20A, 48" AFF TO TOP OF DEVICE
- S_3 SWITCH, THREE WAY, 120/277V, 20A, 48" AFF TO TOP OF DEVICE
- S_O OCCUPANCY SENSOR SWITCH, PASSIVE INFARED, 120V, WALL MOUNTED 48" AFF TO TOP OF DEVICE, WATTSTOPPER WA-200
- S_T TWIST TIMER IN RECESSED BOX WITH WEATHERPROOF DIECAST COVER. TIMER TO BE 120V, 1HP, EQUAL TO NSI #C502H
- (DT) MOTION SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE, WATTSTOPPER DT-305 PROVIDE POWER PACK & ADDITIONAL RELAYS AS REQUIRED
- PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL'G - @ 18" AFF TO BOTTOM
- PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL'G - SMH



LIGHTING FIXTURES
SEE FIXTURE SCHEDULE

- DISCONNECT SWITCH, NON-FUSED, DESCRIBED BY: VOLTAGE RATING/NO. OF POLES/SWITCH SIZE IN AMPS
- [F] DISCONNECT SWITCH, FUSED, DESCRIBED BY: VOLTAGE RATING/NO. OF POLES/FUSE SIZE IN AMPS
- S_M SWITCH, MOTOR STARTING, MANUAL, SIZE AS REQUIRED
- ☒ MOTOR STARTER, MAGNETIC, SIZE AS REQUIRED
- (M) MOTOR, SEE PANEL SCHEDULE FOR SIZE AND SERVICE
- [D] DUCT MOUNTED SMOKE DETECTOR
- [C] SECURITY CAMERA, MOUNTED IN CEILING
- (Ps) PHOTOCELL
- (#) REFER TO GENERAL ELECTRICAL NOTE INDICATED
- [T] TRANSFORMER, SIZE AS NOTED
- [SPD] SURGE PROTECTIVE DEVICE
- [PB] INGROUND PULLBOX, SEE DETAIL SHEET E4.0.
- [P] INGROUND RECEPTACLE, SEE DETAIL SHEET E4.0.

ABBREVIATIONS:

AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BRKR	BREAKER
℄	CENTERLINE
CL'G	CEILING
COF	CITY OF FRANKLIN
CU	CONDENSING UNIT
EF	EXHAUST FAN
EX'G	EXISTING
GFI	GROUND FAULT INTERRUPTER
MTD	MOUNTED
SMH	SPECIAL MOUNTING HEIGHT (4" ℄ ABOVE CASEWORK/BACKSPLASH OR 45" ℄ AFF IF NO CASEWORK/BACKSPLASH)
UNO	UNLESS NOTED OTHERWISE
XFMR	TRANSFORMER
WH	WATER HEATER
WP	WEATHERPROOF - WHILE IN USE
WR	WEATHERPROOF - WHILE NOT IN USE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	WATTS	MANUFACTURER	
A	LED, RECESSED MOUNT, 2 X 4, 4800 LUMENS, 3500K COLOR, IMPACT RESISTANT LENS, TAMPER RESISTANT SCREWS WHITE FINISH	120	37	FAIL-SAFE	GRV SERIES
AE	SAME AS TYPE "A" WITH INTEGRAL EMERGENCY BATTERY & TEST SWITCH				
B	LED, 4 FT, LENSED STRIP, 3000 LUMEN, CHAIN HUNG, DAMP LOCATION LISTED 3500K COLOR	120	25	LITHONIA METALUX COLUMBIA	ZL1N SERIES SNLED SERIES LCL SERIES
BE	SAME AS TYPE "B" WITH INTEGRAL EMERGENCY BATTERY & TEST SWITCH				
C	LED, CEILING MOUNT, 1 FOOT SQUARE, 2600 LUMEN, 4000K TEMP, VANDAL RESISTANT	120	27	FAIL-SAFE	FW SERIES
CE	SAME AS TYPE "C" WITH INTEGRAL EMERGENCY BATTERY				
F	CEILING FAN, LARGE BLADE, EXTERIOR	120	20	BIG ASS FANS	HAIKU SERIES
ST1	FIXTURE PROVIDED BY CITY AND INSTALLED BY CONTRACTOR	120	100		

- ALL PENDANT FIXTURES CABLE OR STEM LENGTHS AND FINISHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS/ARCHITECT PRIOR TO INSTALLATION.
- ALL FIXTURES TO BE SUPPLIED WITH LAMPS.
- FIXTURES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING FIRE RATING.
- ALL FIXTURES INSTALLED IN AN INSULATED CEILING SHALL BE I.C. RATED.

SPORTS LIGHTING SCHEDULE

1. ALL LIGHTING POLES SHALL BE PROVIDED WITH A DRIVER ENCLOSURE MOUNTED AT LEAST 10'-0" ABOVE FINISHED GRADE. THE POLE SHALL BE PROVIDED WITH A MAIN DISCONNECTING MEANS FOR EACH FEEDER AND INDIVIDUAL LINE FUSES FOR EACH BALLAST.

2. INFORMATION PROVIDED HERE IS BASED ON OWNER PROVIDED SPORTS LIGHTING SYSTEM SHOP DRAWING.

3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE OWNER PROVIDED SPORTS LIGHTING SYSTEM INCLUDING ALL ELECTRICAL ITEMS FOR A COMPLETE OPERATIONAL SPORTS LIGHTING SYSTEM.

4. SEE SCHEDULE BELOW FOR FIXTURE COUNT PER POLE.

FIELD #1 - 50/30FC LIGHTING LEVEL

POLE #	MTG. HGT.	QUANTITY	TOTAL POLE LOAD	FIX. TYPE
A1	70'-0"	5	5.5 KW	160000 LUMENS LED
A2	70'-0"	5	5.5 KW	160000 LUMENS LED
B1	80'-0"	7	9.1 KW	160000 LUMENS LED
B2	80'-0"	7	9.1 KW	160000 LUMENS LED
C1	70'-0"	7	8.3 KW	160000 LUMENS LED
C2	70'-0"	7	8.3 KW	160000 LUMENS LED

FIELD #2 - 50/30FC LIGHTING LEVEL

POLE #	MTG. HGT.	QUANTITY	TOTAL POLE LOAD	FIX. TYPE
A3	60'-0"	4	3.5 KW	136000 LUMENS LED
A4	60'-0"	4	3.5 KW	136000 LUMENS LED
B3	70'-0"	5	6.3 KW	160000 LUMENS LED
B4	70'-0"	5	6.3 KW	160000 LUMENS LED

SECURITY/PLAZA

POLE #	MTG. HGT.	QUANTITY	TOTAL POLE LOAD	FIX. TYPE
A1	30'-0"	1	0.1 KW	16500 LUMENS LED
A2	30'-0"	1	0.1 KW	16500 LUMENS LED
A3	30'-0"	1	0.1 KW	16500 LUMENS LED
A4	30'-0"	1	0.1 KW	16500 LUMENS LED
B2	30'-0"	1	0.1 KW	16500 LUMENS LED

BATTING CAGES - 30FC LIGHTING LEVEL

POLE #	MTG. HGT.	QUANTITY	TOTAL POLE LOAD	FIX. TYPE
A3	60'-0"	1	1.2 KW	136000 LUMENS LED
B2	80'-0"	2	2.9 KW	160000 LUMENS LED
B3	70'-0"	1	1.2 KW	136000 LUMENS LED

℄ GENERAL ELECTRICAL NOTES

1. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS, LOCATIONS OF UTILITIES, AND EXTENT OF DEMOLITION REQUIRED.

2. COORDINATE INSTALLATION OF NEW SERVICE WITH LOCAL ELECTRIC UTILITY COMPANY. PROVIDE TRENCHING, CONDUIT, METER BASE, CONCRETE PAD, AND OTHER ITEMS AS REQUIRED. INSTALL SERVICE IN ACCORDANCE WITH CURRENT UTILITY COMPANY REQUIREMENTS.

3. COORDINATE INSTALLATION OF TELEPHONE & CATV SERVICE CONDUITS WITH LOCAL UTILITY COMPANIES. INSTALL A 4" CONDUIT FROM TELEPHONE SERVICE POINT & A 2" CONDUIT FROM CATV SERVICE POINT TO TELEPHONE TERMINAL BOARD.

4. PROVIDE A 4' X 8' X 3/4" PLYWOOD TELEPHONE TERMINAL BOARD WITH A #6 COPPER GROUND WIRE TO THE SERVICE ENTRANCE GROUND.

5. INSTALL 1" CONDUIT FROM EACH TELEPHONE, DATA, COMBINATION TELEPHONE-DATA, AND CATV OUTLET TO ABOVE NEAREST ACCESSIBLE CEILING WITH AN INSULATED BUSHING ON EACH END. WHERE ASSOCIATED AREAS ARE EXPOSED OR HAVE BEEN PROVIDED WITH HARD CEILINGS PROVIDE 1" CONDUIT FROM OUTLET TO TERMINAL BOARD. PROVIDE PULL STRINGS THROUGHOUT.

6. PROVIDE CONTROL POWER SOURCE FOR ALL STARTERS AND CONTROL PANELS NOT SUPPLIED WITH CONTROL POWER TRANSFORMERS. INSTALL AND CONNECT ALL CONTROL DEVICES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

7. VERIFY ELECTRICAL POWER REQUIREMENTS FOR ALL EQUIPMENT. PROVIDE CIRCUITS AND FUSES SIZED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

8. MAINTAIN CODE REQUIRED WORKING CLEARANCE AT ALL ELECTRICAL PANELS, DISCONNECT SWITCHES, AND STARTERS.

9. PROVIDE DISCONNECT SWITCH FOR ANY HARDWIRED EQUIPMENT NOT SUPPLIED WITH DISCONNECTING MEANS. DISCONNECT SHALL BE RATED FOR LOCATION INSTALLED.

10. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND CONTROL REQUIREMENTS FOR MECHANICAL EQUIPMENT AND FOR STARTERS, DISCONNECT SWITCHES AND CONVENIENCE RECEPTACLES THAT MAY BE FURNISHED WITH THE EQUIPMENT.

11. PROVIDE KEYLESS FIXTURE AND CONVENIENCE RECEPTACLE IN EACH ACCESSIBLE ATTIC SPACE. CONNECT TO NEAREST 120V CIRCUIT. LOCATE LIGHT SWITCH AND RECEPTACLE NEAR ATTIC ACCESS.

12. COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS. PROVIDE FIXTURES COMPATIBLE WITH CEILING TYPE INSTALLED.

13. LIGHTING FIXTURES FOR EMERGENCY USE SHALL BE PROVIDED WITH INTEGRAL BATTERY. THOSE FIXTURES SHALL BE CIRCUITED SUCH THAT THEY AUTOMATICALLY SWITCH TO FULL BATTERY OPERATION UPON FAILURE OF UTILITY POWER TO CIRCUIT, INCLUDING THOSE "EMERGENCY FIXTURES" ATTACHED TO DIMMED LIGHTING CIRCUITS. EXIT LIGHTS SHALL BE UNSWITCHED.

14. COORDINATE LOCATION OF LIGHTS IN EQUIPMENT AND MECHANICAL ROOMS WITH INSTALLED EQUIPMENT SO THAT ALL GAUGES, SWITCHES, AND SERVICE LOCATIONS ARE ILLUMINATED.

15. VERIFY ELECTRICAL REQUIREMENTS AND LOCATIONS OF ALL KITCHEN EQUIPMENT PRIOR TO ROUGH-IN. COORDINATE RECEPTACLES REQUIRED WITH EQUIPMENT FURNISHED. PROVIDE 3/4" CONDUIT FOR CONTROL WIRING BETWEEN EVAPORATOR COILS AND RESPECTIVE CONDENSING UNITS.

16. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPS OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPS OR LESS INSTALLED IN KITCHEN, SERVICE & PREP AREAS SHALL HAVE GFCI PROTECTION FOR PERSONNEL. PROTECTION MAY BE BY LOCAL GFCI RECEPTACLES, STAND ALONE GFCI DEVICES, OR GFCI TYPE BREAKERS IN THE PANEL.

17. ALL RECEPTACLES ON DEDICATED CIRCUITS SHALL BE RATED NO LESS THAN CIRCUIT OVERCURRENT DEVICE.

18. ALL GROUND-FAULT CIRCUIT-INTERRUPTERS SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION PER CODE. THIS MAY BE ACCOMPLISHED BY RECEPTACLES WITH INTEGRAL GFI DEVICE, GFI CIRCUIT BREAKERS, OR PROVIDING A STAND ALONE GFI DEVICE IN A READILY ACCESSIBLE LOCATION.

19. PROVIDE SURGE PROTECTIVE DEVICES (SPD) AT PANELBOARDS AS INDICATED. SPD EQUIPMENT TO BE RATED FOR 100,000 AMPS PER PHASE SURGE AT PANELBOARDS. CLAMPING VOLTAGE TO BE 600 VOLTS ON 120/208 VOLTS. SURGE MODULES SHALL BE REPLACABLE.(APPROVED MANUFACTURER IS ERICO MODEL TDX100S120208 OR EQUAL.)

20. CONFIRM CIRCUITRY REQUIREMENTS OF OWNER FURNISHED EQUIPMENT INCLUDING RECEPTACLE NEMA CONFIGURATION, WIRE SIZE & OVERCURRENT PROTECTION SIZE WITH FINAL VENDOR DRAWINGS PRIOR TO ROUGH-IN.

21. EXTERIOR LIGHTING SHALL BE TURNED ON AT DUSK BY A PHOTOCELL, AND TURNED OFF AT A PRESET TIME BY A TIMESWITCH. PHOTOCELL SHALL BE MOUNTED ON BUILDING NEAR ROOF. TIMESWITCH SHALL BE MOUNTED ADJACENT TO ELECTRICAL PANEL. TIMESWITCH SHALL BE SEVEN DAY WITH RESERVE POWER. PROVIDE CONTACTOR TO CONTROL MULTIPLE CIRCUITS AS NEEDED.

22. WHERE DIMMER SWITCHES ARE CONNECTED TO CEILING MOUNTED MOTION SENSORS, DIMMER SWITCHES SHALL CONTROL THE LEVEL OF THE LIGHTING IN THE SPACE AND SHALL AUTOMATICALLY TURN OFF 15 MINUTES AFTER LAST OCCUPANT HAS LEFT THE SPACE.

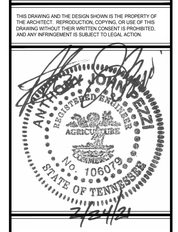
23. RESTROOM OCCUPANCY SENSORS SHALL CONTROL LIGHTING AND EXHAUST FAN TOGETHER. FAN SHALL RUN WHEN EITHER RESTROOM IS OCCUPIED. PROVIDE TWO CIRCUIT CONTROL RELAYS OR ADDITIONAL RELAYS FOR SEPARATE CIRCUITS AND/OR DIFFERENT VOLTAGES.

24. SPACES WITH OCCUPANCY SENSORS AND MULTIPLE LOCAL LIGHTING CONTROLS SHALL BE WIRED WITH OCCUPANCY SENSOR AHEAD OF LOCAL LIGHTING CONTROLS. OCCUPANCY SENSORS SHALL CONTROL ALL LIGHTING IN SAME SPACE TOGETHER. PROVIDE ADDITIONAL RELAYS FOR SEPERATE CIRCUITS AND/OR DIFFERENT VOLTAGES.

25. OCCUPANCY SENSOR(S) SHALL CONTROL ALL LIGHTING IN SPACE TOGETHER. PROVIDE ADDITIONAL RELAYS FOR SEPARATE CIRCUITS AND/OR DIFFERENT VOLTAGES AS REQUIRED.

26. PROVIDE EMERGENCY OFF PUSHBUTTON IN SERVER ROOM. UPON ACTIVATION POWER SHALL BE REMOVED FROM LOCAL HVAC SERVING SERVER ROOM AND ANY UPS LARGER THAN 750VA. PUSHBUTTON SHALL BE LOCATED NEAR DOOR ENTERING SERVER ROOM PER NEC 645.10.B.

LOSE DESIGN
SPACES FOR LIFE.



FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS

NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
ELECTRICAL LEGEND & NOTES

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E3.0

PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

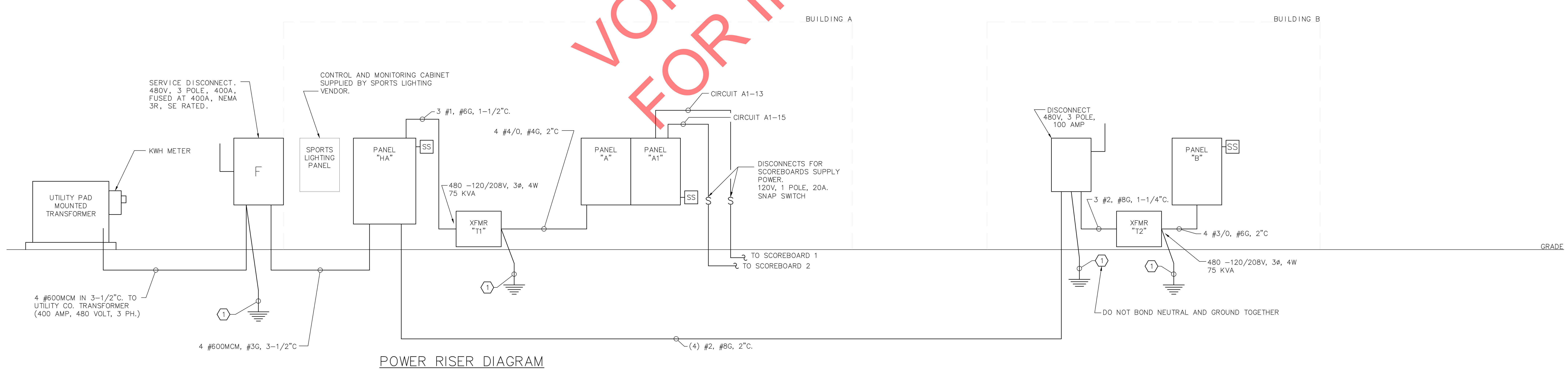
Project: 19251 Drawing: 19251 E3.0-5.0 (Rev2) (CITY COMMENTS).dwg

VOLTAGE: 480/277V., 3PH., 4W.				MAIN BKR: ---			BUS: 400 AMP MLO			A.I.C.: 14 K			SURFACE MOUNTED
NOTES: S.E. RATED	** SEE RISER DIAGRAM												
DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
POLE "A1"	2.1			10	20	1	2	20	10	2.1			POLE "A2"
		2.1		10		3	4		10		2.1		
			2.1	10		5	6		10			2.1	
POLE "B1"	2.5			10	20	7	8	20	10	2.5			POLE "B2"
		2.5		10		9	10		10		2.5		
			2.5	10		11	12		10			2.5	
POLE "C1"	2.7			10	20	13	14	20	10	2.7			POLE "C2"
		2.7		10		15	16		10		2.7		
			2.7	10		17	18		10			2.7	
POLE "A3"	1.0			12	20	19	20	20	12	1.0			POLE "A4"
		1.0		12		21	22		12		1.0		
			1.0	12		23	24		12			1.0	
POLE "B3"	2.2			12	20	25	26	20	12	2.2			POLE "B4"
		2.2		12		27	28		12		2.2		
			2.2	12		29	30		12			2.2	
SPORTS LTG CONTROL	0.1			12	20	31	32	110	**	13.8			PANEL "B"
SPARE		0		–	20	33	34		**		13.0		
SPARE			0	–	20	35	36		**			16.2	
PANEL "A"	22.8			**	125	37	38	30	10	0			SPD
		24.9		**		39	40		10		0		
			24.9	**		41	42		10			0	
SECURITY LIGHTING	1.2			12	20	43	44	20	–	0			BATTING CAGES
SPARE		0		–	20	45	46	20	–		0		
SPARE			0	–	20	47	48	20	–			0	
SPARE	0			–	20	49	50	20	–	0			SPACE
SPARE		0		–	20	51	52	20	–		0		SPACE
SPARE			0	–	20	53	54	20	–			0	SPACE
SPARE	0			–	20	55	56	20	–	0			SPACE
SPARE		0		–	20	57	58	20	–		0		SPACE
SPARE			0	–	20	59	60	20	–			0	SPACE
	33.4			PANEL "HA"						24.3			A: 57.7 KVA
		35.4									23.5		B: 58.9 KVA
			35.4									26.7	C: 62.1 KVA
													TOTAL: 178.7 KVA

VOLTAGE: 208/120V., 3PH., 4W.				MAIN BKR: 225 A			BUS: 225 AMP ---			A.I.C.: 10 K			SURFACE MOUNTED
SECTION 1 OF 2	NOTES: +GFI BREAKER												
DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
R–ELECTRICAL	0.6			12	20	1	2	20	12	1.0			L–INTERIOR
R–MECHANICAL		0.8		12	20	3	4	20	12		0.4		L–PATIO
R–IT ROOM			0.4	12	20	5	6	20	12			1.5	HOT DOG ROLLER
R–IT ROOM	0.4			12	20	7	8	20	12	1.6			COUNTER FOOD WARMER
R–IT ROOM		0.4		12	20	9	10	20	12		1.7		COFFEE MAKER
R–STORAGE/EXTERIOR			1.0	12	20	11	12	20	12			1.2	MICROWAVE
INDIGO ICE MACHINE	2.7			8	+35	13	14	20	12	1.0			R–POS COUNTERTOP
		2.7		8		15	16	20	12		1.0		R–EXTERIOR
R–CONCESSIONS			0.2	12	20	17	18	20	12			0.2	R–COUNTERTOP
2 SECTION FRIDGE	1.2			12	20	19	20	20	12	1.3			POPCORN MACHINE
2 SECTION FRIDGE		1.2		12	20	21	22	20	12		1.5		DISPLAY WARMER
2 SECTION FRIDGE			1.2	12	20	23	24	20	12			1.3	CHIP WARMER
R–COUNTERTOP	0.2			12	20	25	26	20	12	0.3			NACHO CHEESE DISP.
R–COUNTERTOP		0.2		12	20	27	28	20	12		0.7		HOTDOG BUN WARMER
R–UC FRIDGE			1.0	12	20	29	30	15	12			1.3	AC#2
R–COUNTERTOP	0.2			12	20	31	32		12	1.3			
1 SECTION FRIDGE		1.0		12	20	33	34	30	10		1.2		AC#2 (COND. UNIT)
R–COUNTERTOP			0.2	12	20	35	36		10			1.2	
AC#1	3.3			8	35	37	38	30	10	1.8			AC#1 (COND. UNIT)
		3.3		8		39	40		10		1.8		
			3.3	8		41	42		10			1.8	
	8.6			PANEL "A"						8.3			A: 16.9 KVA
		9.6									8.3		B: 17.9 KVA
			7.3									8.5	C: 15.8 KVA

VOLTAGE: 208/120V., 3PH., 4W.				MAIN BKR: ---			BUS: 225 AMP MLO			A.I.C.: 10 K			SURFACE MOUNTED
SECTION 2 OF 2	NOTES:												
DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
FOOD DISPLAY	1.5			12	20	1	2	20	12	0.8			R–CONCENSSIONS
L–EXTERIOR		0.5		12	20	3	4	20	12		0.2		R–CONCESSIONS
F–EXTERIOR			1.2	12	20	5	6	20	12			0.2	R–CONCESSIONS
R–COUNTERTOP	0.2			12	20	7	8	20	12	0.2			R–CONCESSIONS
R–COUNTERTOP		0.2		12	20	9	10	20	12		0.2		R–CONCESSIONS
R–COUNTERTOP			0.2	12	20	11	12	20	12			0.2	R–CONCESSIONS
SCOREBOARD 1	0.4			12	20	13	14	20	12	0.4			L–PEDESTRIAN LIGHTS
SCOREBOARD 2		0.4		12	20	15	16	20	12		0.4		R–DUG OUT
IRRIG. RECLAIM VAULT			0.2	12	20	17	18	20	12			0.4	R–DUG OUT
R–CONCESSIONS	0.2			12	20	19	20	20	12	1.0			BC–RECEPTACLES
C–RECEPTACLES		0.2		12	20	21	22	20	12		1.0		BC–RECEPTACLES
C–RECEPTACLES			0.2	12	20	23	24	20	12			1.0	BC–RECEPTACLES
IRRIG. SUMP PUMP	0.6			10	20	25	26	20	–	0			SPARE
WH#1		4.5		4	60	27	28	20	–		0		SPARE
			4.5	4		29	30	20	–			0	SPARE
R–CONCESSIONS	0.2			12	20	31	32	20	–	0			SPARE
SCORER STATION F1		0.2		12	20	33	34	20	–		0		SPARE
SCORER STATION F2			0.2	12	20	35	36	20	–			0	SPARE
R–PA EQUIPMENT	1.2			12	20	37	38	30	10	0			SPD
SPARE		0		–	20	39	40		10		0		
SPARE			0	–	20	41	42		10			0	
	4.3			PANEL "A1"						1.6			A: 16.9 5.9 22.8 KVA
		6.0									1.0		B: 17.9 7.0 24.9 KVA
			6.5									1.0	C: 15.8 7.5 24.9 KVA
													TOTAL: 71.0 KVA

VOLTAGE: 208/120V., 3PH., 4W.				MAIN BKR: 200 A			BUS: 200 AMP ---			A.I.C.: 10 K			SURFACE MOUNTED
NOTES													
DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
R–RECEPTACLES	0.8			12	20	1	2	20	12	1.0			L–INTERIOR
R–EXTERIOR		0.6		12	20	3	4	20	12		0.4		L–EXTERIOR
M–RESTROOM SENSORS			0.5	12	20	5	6	20	12			0.2	CEILING FANS
W–RESTROOM SENSORS	0.4			12	20	7	8	20	12	0.4			TTB
HAND DRYER		1.6		12	20	9	10	20	–		0		SPARE
HAND DRYER			1.6	12	20	11	12	20	–			0	SPARE
HAND DRYER	1.6			12	20	13	14	20	–	0			SPARE
W/FAM. REST. SENSORS		0.3		12	20	15	16	20	12		0.8		R–PAVILION
SPARE			0.1	12	20	17	18	20	–			0	SPARE
SPARE	0			–	20	19	20	20	–	0			SPARE
SPARE		0		–	20	21	22	20	–		0		SPARE
SPARE			0	–	20	23	24	20	–			0	SPARE
SPARE	0			–	20	25	26	20	–	0			SPARE
SPACE		0		–	20	27	28	20	–		0		SPARE
SPACE			0	–	20	29	30	20	–			0	SPARE
AC#3	6.4			4	70	31	32	20	–	0			SPARE
		6.4		4		33	34	60	4		4.5		WH#2
			6.4	4		35	36		4			4.5	
AC#3 (COND UNIT)	2.9			8	40	37	38	30	10	0			SPD
		2.9		8		39	40		10		0		
			2.9	8		41	42		10			0	
	12.4			PANEL "B"						1.4			A: 13.8 KVA
		11.8									1.2		B: 13.0 KVA
			11.5									4.7	C: 16.2 KVA
													TOTAL: 43.0 KVA



POWER RISER DIAGRAM

NO SCALE

(1) SEE ELECTRICAL SERVICE GROUND. SHEET E4.0

Project: 19251 Drawing: 19251 E3.0–5.0 (Rev2) (CITY COMMENTS).dwg

LOSE DESIGN SPACES FOR LIFE.

ANTHONY JOHN PEZZI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 106079 STATE OF TENNESSEE 2/24/21

FREEDOM BALL FIELDS

C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION

750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064

CITY OF FRANKLIN

FRANKLIN TENNESSEE

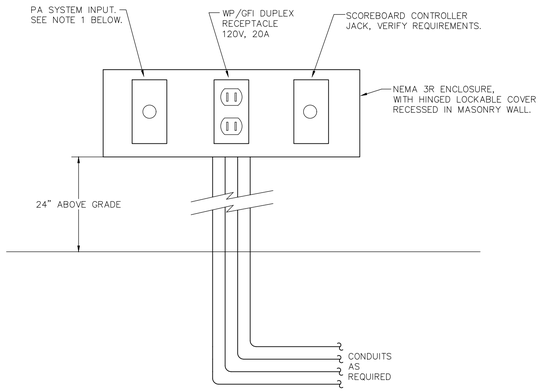
REVISIONS		
NO.	DATE	COMMENTS
CONSTRUCTION DOCUMENTS		

SHEET TITLE

ELECTRICAL SCHEDULES & RISER

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	
SHEET NO. E3.1	

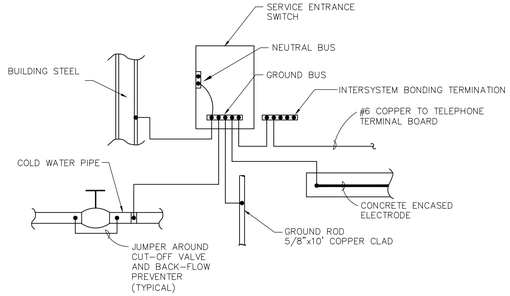
PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM



SCORER STATION DETAIL (TYPICAL)

SCALE: NONE

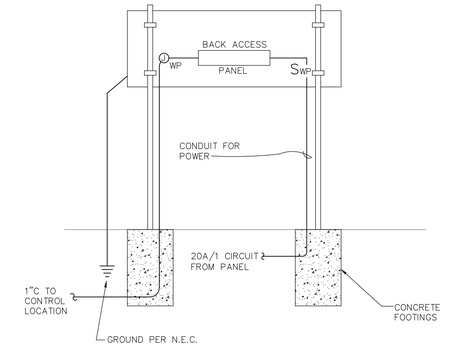
1. PROVIDE 1" CONDUIT WITH PULL STRING BETWEEN EACH SCORER STATION. TO BUILDING A ELECTRICAL ROOM, FOR PA SYSTEM MASTER OVERRIDE.



ELECTRICAL SERVICE GROUND

NO SCALE

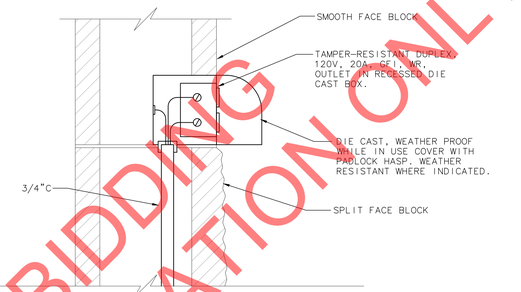
BOND ALL INDICATED SYSTEMS THAT ARE PRESENT TO GROUNDING ELECTRODE SYSTEM PER NEC 250.50. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER NEC 250.66.



SCOREBOARD INSTALLATION DETAIL

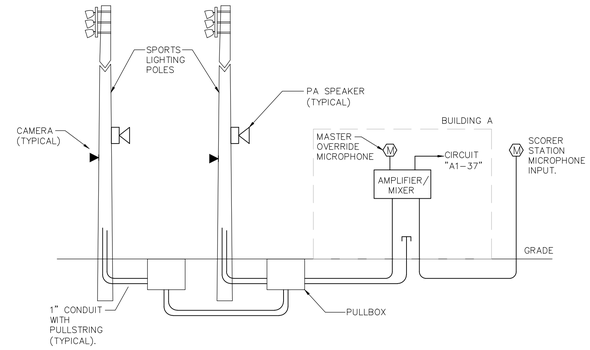
NO SCALE

THIS DETAIL IS FOR REFERENCE ONLY, COORDINATE WITH ACTUAL SCOREBOARD VENDOR FOR INSTALLATION, ELECTRICAL, AND CONTROL REQUIREMENTS.



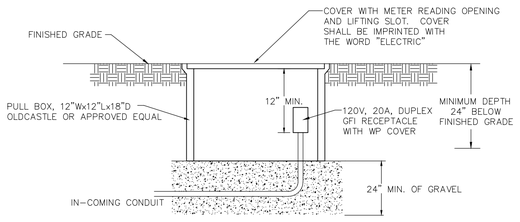
EXTERIOR OUTLET MOUNTING DETAIL (TYPICAL)

NO SCALE



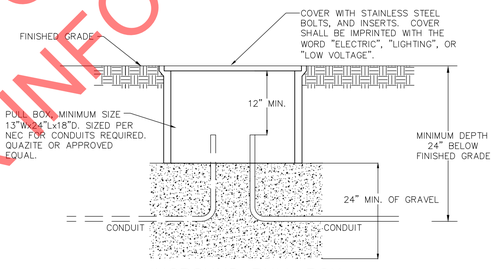
LOW VOLTAGE SYSTEM RISER (TYPICAL)

NO SCALE



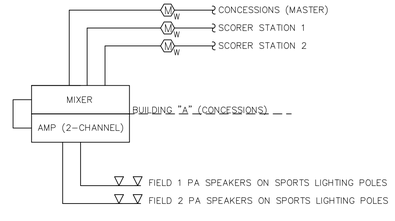
INGROUND RECEPTACLE DETAIL

NO SCALE



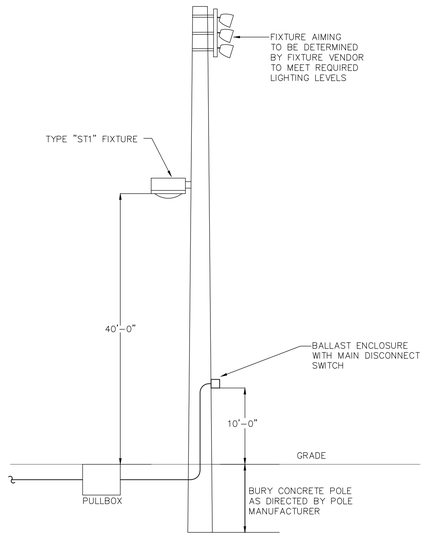
INGROUND PULL BOX

NO SCALE



MICROPHONE PA SYSTEM DETAIL

NO SCALE.
PA EQUIPMENT BY OTHERS.



CONCRETE POLE LIGHTING DETAIL

NO SCALE

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PARSONS
REGISTERED ENGINEER
AGRICULTURE
106073
STATE OF TENNESSEE
7/31/21

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
E4.0

PE
PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Project: 19251 Drawing: 19251 E3.0-5.0 (Rev2) (CITY COMMENTS).dwg

COMcheck Software Version 4.1.1.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: FSSD Freedom Ball Fields
Project Type: New Construction

Construction Site:
750 New Highway
96 West
Franklin, TN 37064

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

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

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Building A (School/University)	1397	0.73	1018
2-Building B (School/University)	1303	0.73	950
3-Building C (Sports Arena)	5303	0.78	4152
4-Building D (Sports Arena)	3973	0.78	3111
5-Building E (School/University)	121	0.73	88
		Total Allowed Watts =	9320

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Building A (School/University)				
LED 1: A: 2x4: LED Panel 36W:	1	7	37	259
LED 2: B: 4 Foot Strip: LED Linear 22W:	1	11	25	275
2-Building B (School/University)				
LED 3: A: 2x4: LED Panel 36W:	1	9	37	333
LED 4: B: 4 Foot Strip: LED Linear 11W:	1	10	25	250
3-Building C (Sports Arena)				
LED 5: D: 1 Foot Square: Other:	1	18	97	1746
4-Building D (Sports Arena)				
LED 6: D: 1 Foot Square: Other:	1	12	97	1164
5-Building E (School/University)				
LED 7: A: 2x4: LED Panel 36W:	1	2	37	74
		Total Proposed Watts =		4101

Interior Lighting PASSES: Design 56% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tim Lam - EIT — Name - Title
Signature
03-16-2020 — Date

COMcheck Software Version 4.1.1.0

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22]1	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18]1	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19]1	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20]1	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21]2	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23]2	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL26]1	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27]1	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6]1	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C405.6 [EL26]2	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL27]2	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28]2	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29]2	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

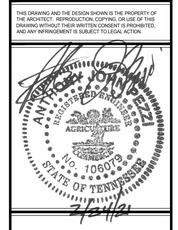
1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17]3	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18]1	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.1.1 [FI57]1	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI16]3	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33]1	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

LOSE DESIGN
SPACES FOR LIFE.



FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS

NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
ELECTRICAL COMCHECK

PROJECT NO.	DATE
18062-1	02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

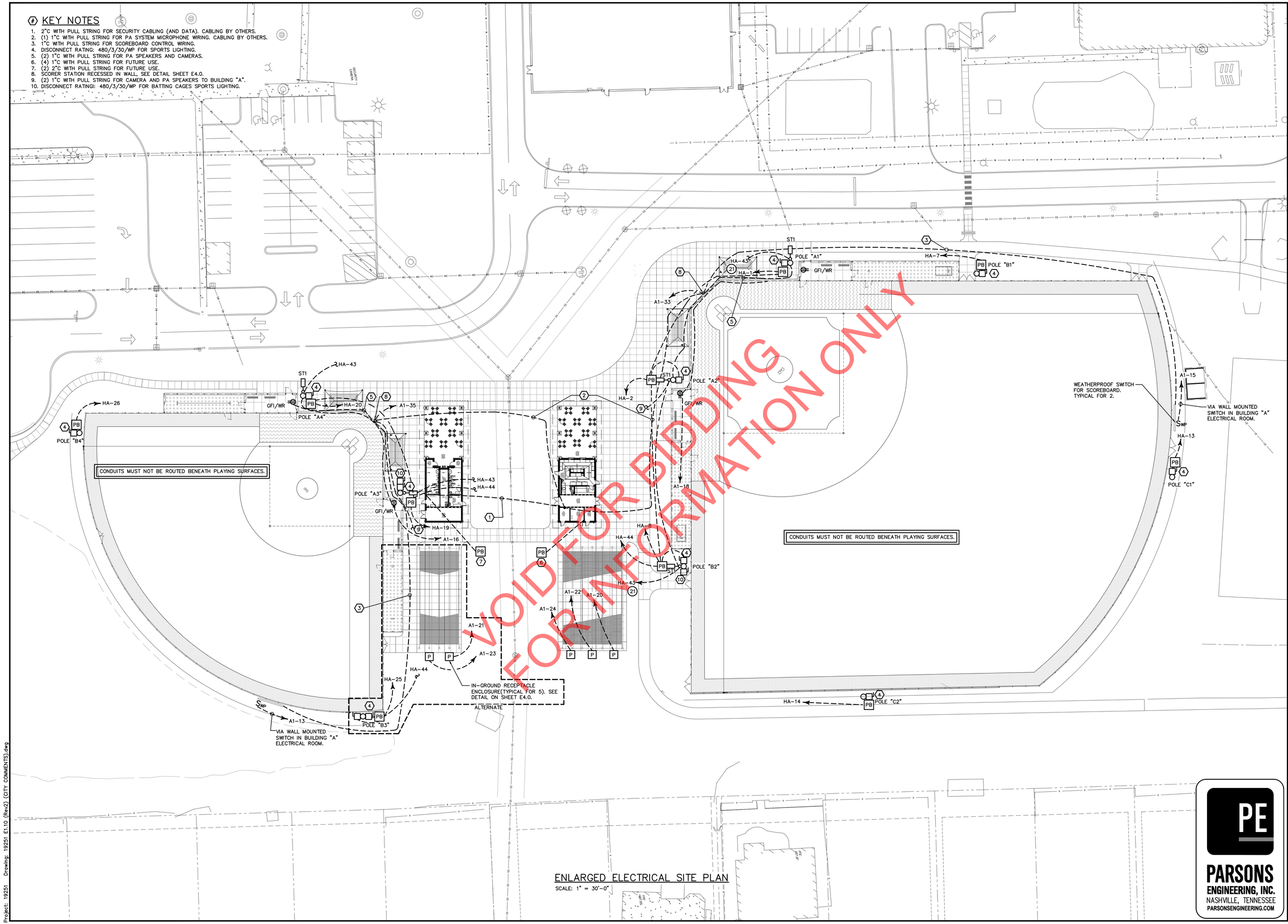
SHEET NO.
E5.0

PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Project: 19251 Drawing: 19251_E3.0-5.0 (Rev2) (CITY COMMENTS).dwg

KEY NOTES

1. 2"C WITH PULL STRING FOR SECURITY CABLING (AND DATA). CABLING BY OTHERS.
2. (1) 1"C WITH PULL STRING FOR PA SYSTEM MICROPHONE WIRING. CABLING BY OTHERS.
3. 1"C WITH PULL STRING FOR SCOREBOARD CONTROL WIRING.
4. DISCONNECT RATING: 480/3/30/WP FOR SPORTS LIGHTING.
5. (2) 1"C WITH PULL STRING FOR PA SPEAKERS AND CAMERAS.
6. (4) 1"C WITH PULL STRING FOR FUTURE USE.
7. (2) 2"C WITH PULL STRING FOR FUTURE USE.
8. SCORER STATION RECESSED IN WALL. SEE DETAIL SHEET E4.0.
9. (2) 1"C WITH PULL STRING FOR CAMERA AND PA SPEAKERS TO BUILDING "A".
10. DISCONNECT RATING: 480/3/30/WP FOR BATTING CAGES SPORTS LIGHTING.



ENLARGED ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

LOSE DESIGN
SPACES FOR LIFE.

ANTHONY JOHN PETZ
REGISTERED LANDSCAPE ARCHITECT
AGRICULTURE
No. 106073
STATE OF TENNESSEE

FREEDOM BALL FIELDS
C.O.F. AND F.S.S.D. BALL FIELD CONSTRUCTION
750 NEW HIGHWAY 96 WEST, FRANKLIN, TN 37064
CITY OF FRANKLIN
FRANKLIN
TENNESSEE

REVISIONS		
NO.	DATE	COMMENTS

CONSTRUCTION DOCUMENTS

SHEET TITLE
[ALTERNATE]
ENLARGED
ELECTRICAL
SITE PLAN

PROJECT NO. 18062-1	DATE 02/25/2021
DRAWN BY TAL	SCALE AS SHOWN
CHECKED BY AJP	

SHEET NO.
AE1.10

PARSONS
ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

Project: 19251 Drawing: 19251 E1.10 (Rev2) (CITY COMMENTS).dwg