INDEX TO DRAWINGS

PAYNEVILLE ELEMENTARY RENOVATION AND ADDITION

BG# 18-283

JULY 10, 2019

MEADE COUNTY BOARD OF EDUCATION
BRANDENBURG , KENTUCKY

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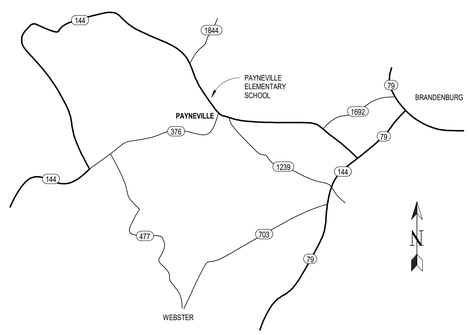
VICINITY MAP



SHERMAN CARTER BARNHART ARCHITECTS

SHERMAN CARTER BARNHART ARCHITECTS, PLLC

PROJECT MANAGER: DONNA FARMER, AIA

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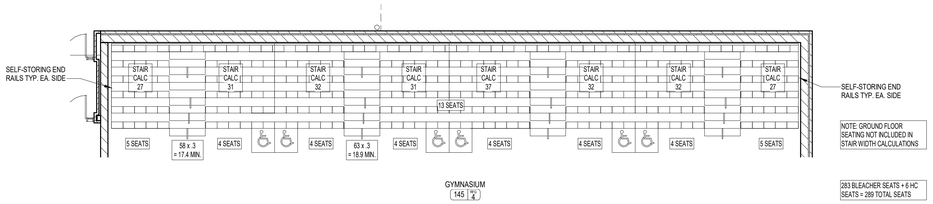
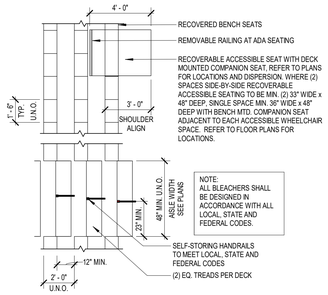
642 SOUTH 4th STREET
SUITE 100
LOUISVILLE, KY 40202
P (502) 562-1412 F (502) 562-1413

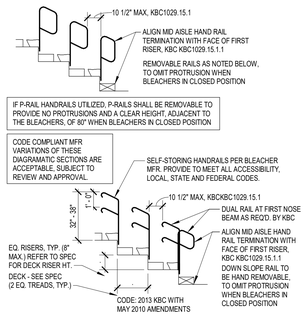
SCB PROJECT NO. 1569



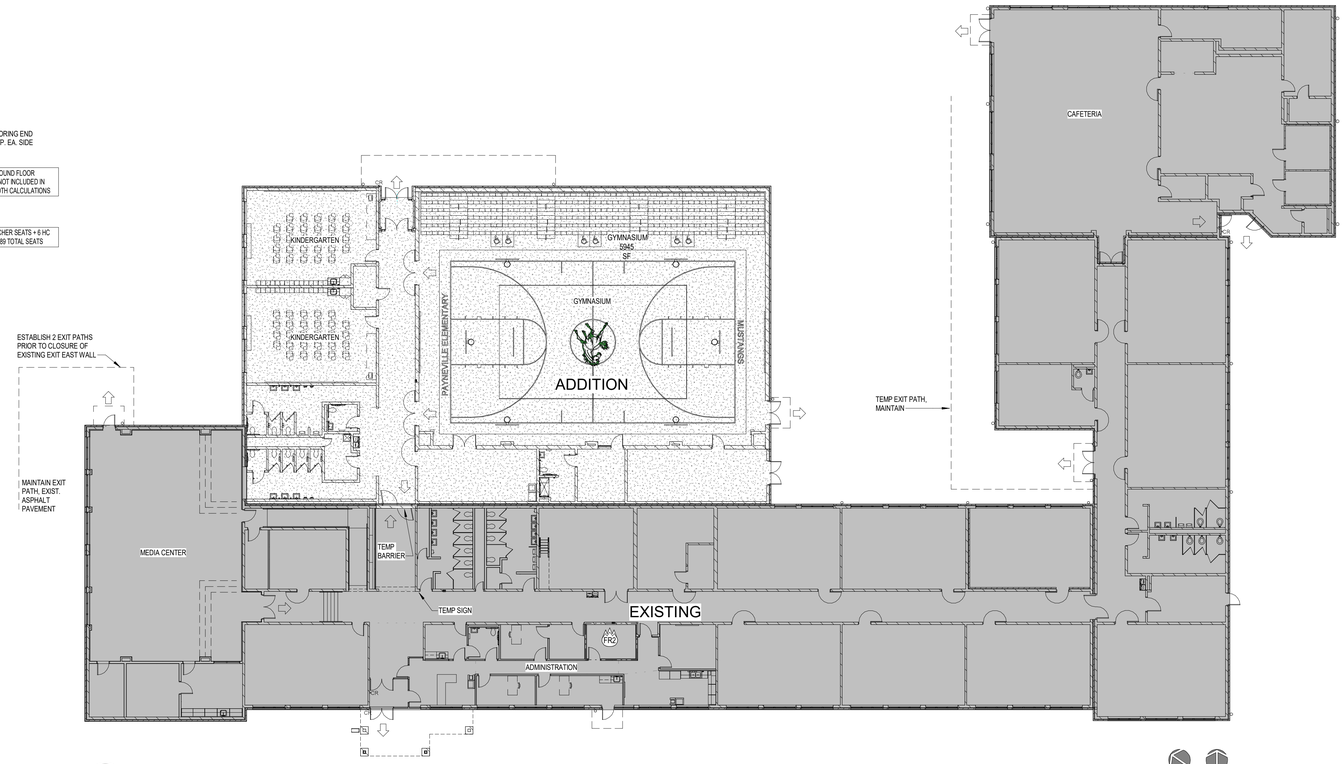
2 BLEACHER PLAN
1/8" = 1'-0"



3 PARTIAL BLEACHERS PLAN
1/4" = 1'-0"



4 PARTIAL BLEACHERS SECTION
1/4" = 1'-0"



1 CODE REVIEW PLAN
1/16" = 1'-0"

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KY BUILDING CODE

IN ADDITION TO OTHER TESTING AND INSPECTION REQUIRED TO BE PROVIDED BY THE CONTRACTOR PER THE TECHNICAL SPECIFICATIONS, THE OWNER SHALL PROVIDE QUALIFIED THIRD - PARTY INSPECTORS FOR SPECIAL INSPECTIONS AS FOLLOWS:

SECTION	ITEM	REQUIRED? YES	REQUIRED? NO	REMARKS
1704.6.1	FABRICATORS	X		PER SECTION 1704.2.5
1704.6.2	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS		X	SEISMIC DESIGN CATEGORY "B"
1704.5.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS		X	Vasd = 93MPH < 110 MPH
1705.1.1	SPECIAL CASES		X	NONE
1705.2	STEEL	X		PER AISC 360 & 1705.2
1705.3	CONCRETE		X	PER TABLE 1705.3
1705.4	MASONRY	X		LEVEL B TMS 402/ ACI 530/ ASCE 5
1705.5	WOOD	X		PER 1704.2.5
1705.6	SOILS	X		PER TABLE 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS		X	NONE
1705.8	CAST IN PLACE DEEP FOUNDATIONS		X	NONE
1705.9	HELICAL PILE FOUNDATION		X	NONE
1705.11	WIND - STRUCTURAL WOOD		X	Vasd = 93MPH < 110 MPH
1705.11.2	WIND - COLD FORMED STEEL FRAMING		X	Vasd = 93MPH < 110 MPH
1705.11.3	WIND - WIND RESISTING COMPONENTS		X	Vasd = 93MPH < 110 MPH
1705.12.1	SEISMIC - STRUCTURAL STEEL		X	SEISMIC DESIGN CATEGORY "B", RESPONSE MODIFICATION FACTOR, R = 3.5 (GREATER THAN 3)
1705.12.2	SEISMIC- STRUCTURAL WOOD		X	NONE
1705.12.3	SEISMIC- COLD FORMED STEEL FRAMING		X	SEISMIC DESIGN CATEGORY "B"
1705.12.4	DESIGNATED SEISMIC SYSTEMS		X	SEISMIC DESIGN CATEGORY "B"
1705.12.5	SEISMIC- ARCHITECTURAL COMPONENTS- INTERIOR / EXTERIOR NON-LOAD BEARING WALLS AND VENEER IN STRUCTURES		X	SEISMIC DESIGN CATEGORY "B"
1705.12.6	SEISMIC- MECHANICAL AND ELECTRICAL COMPONENTS		X	SEISMIC DESIGN CATEGORY "B"
1705.12.7	SEISMIC- STORAGE RACKS AND ACCESS FLOORS		X	NONE
1705.14	SPRAYED FIREPROOFING		X	NONE
1705.15	MASTIC INTUMESCENT COATING		X	NONE
1705.16	EIFS		X	NONE
1705.17	FIRE RESISTANT PENETRATIONS & JOINTS	X		PER 1705.17, RISK CATEGORY III
1705.18	SMOKE CONTROL		X	NONE

REFER TO SHEET S0.1 THROUGH S0.3 FOR ADDITIONAL INFORMATION REGARDING SPECIAL INSPECTIONS FOR STRUCTURAL COMPONENTS.

STRUCTURAL DESIGN LOADS
(REFER TO SHEET S0.1)

SEISMIC DESIGN CRITERIA

SOURCE:	2018 KENTUCKY BUILDING CODE (KBC)
SEISMIC RISK CATEGORY:	III
SEISMIC DESIGN CATEGORY:	B
S_{DS}:	0.180
S_{D1}:	0.084
SEISMIC SITE CLASS:	B
BASIC SEISMIC-FORCE RESISTING SYSTEM:	BEARING WALL SYSTEM INTERMEDIATE REINFORCED CONCRETE MASONRY (CMU) SHEAR WALLS
SEISMIC ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE METHOD (E.L.F.M.)

SEE STRUCTURAL DRAWING, S0.1, FOR ADDITIONAL SEISMIC INFORMATION AND STRUCTURAL DESIGN LOAD INFORMATION

CODE INFORMATION

GENERAL INFORMATION

CODE	KENTUCKY BUILDING CODE (2018 KBC) FIRST EDITION
USE GROUP	EDUCATION - GROUP E
CONSTRUCTION TYPE NEW	TYPE 2B (NON-COMBUSTIBLE)
CONSTRUCTION TYPE EXISTING	TYPE 2B (NON-COMBUSTIBLE)
FIRE PROTECTION	FULLY SPRINKLERED PER NFPA 13.3.1.1
DEAD END CORRIDORS	50 FEET MAX (SECTION 1020.4; EXCEPTION 2)
COMMON PATH OF EGRESS TRAVEL:	75 FEET MAX (SECTION 1006.2.1)

TRAVEL DISTANCES:

ACTUAL MAX. TRAVEL DISTANCE TO EXIT:	155 FT.
MAX. ALLOWABLE TRAVEL DISTANCE	250 FT. (PER TABLE 1017.2)

BUILDING HEIGHT CALCULATION

ALLOWABLE HEIGHT	PER TABLE 504.3 & 504.4	- 3 STORIES / 75'-0"
SPRINKLER		
ACTUAL HEIGHT		- 1 STORY / 26'-8" (EXISTING & NEW)

BUILDING AREA CALCULATIONS

(TABULAR ALLOWABLE BUILDING AREA) A_t = 58,000 SQUARE FEET (TABLE 506.2)

FRONTAGE INCREASE: (SECTION 506.3.3) (EQUATION 5-5)

$$I_f = \left[\frac{F}{P} - .25\right]\frac{W}{30}$$

$$I_f = \left[\frac{1,138}{1,189} - .25\right]\frac{30}{30}$$

$$I_f = .707$$

ALLOWABLE AREA TOTAL: (SECTION 506.2.1) (EQUATION 5-1)

$$A_a = A_t + \left[NS \times I_f\right]$$

$$A_a = 58,000 + \left[14,500 \times .707\right]$$

$$A_a = 68,251 \text{ SQ. FT.}$$

ACTUAL BUILDING 1 AREA: 38,015 SQ. FT.
(INCLUDES 26,300 SF OF EXISTING)
(INCLUDES 11,405 SF OF NEW)
(INCLUDES 310 SF OF COVERED STRUCTURED OVERHANGS)

ASSEMBLY AREAS OCCUPANT LOAD CALCULATIONS

TYPICAL KINDERGARTEN CLASSROOM
20 SQ. FT. (NET) PER OCCUPANT (TABLE 1004.1.2) : ACTUAL OCCUPANCY = 30 OCCUPANTS PER CLASSROOM
MAXIMUM CALCULATED OCCUPANCY = 40 OCCUPANTS PER 800 SQ. FT. FOR TWO KINDERGARTEN CLASSROOMS = 80 MAX. OCCUPANTS

GYMNASIUM
FIXED SEATING (BLEACHER SEATING) : 289 OCCUPANTS (COUNTING HANDICAP SEATING SPACES)
PLAYING FLOOR AND REMAINING SPACE (PORTABLE SEATING : 4,938 SQ. FT. @ 7 PEOPLE PER SQ. FT. (TABLE 1004.1.2) = 706 OCCUPANTS
MAXIMUM CALCULATED OCCUPANCY = 995 OCCUPANTS TOTAL, 3 EXITS REQUIRED 3 PROVIDED

MEDIA CENTER
50 SQ. FT. PER OCCUPANT (TABLE 1004.1.2) 2,401 IN READING ROOM AREA = 48 OCCUPANTS
100 SQ. FT. PER OCCUPANT (TABLE 1004.1.2) 225 SQ. FT. IN OFFICE / TEACHERS WORKROOM = 2 OCCUPANTS
300 SQ. FT. PER OCCUPANT (TABLE 1004.1.2) 197 SQ. FT. IN AV ROOM = 1 OCCUPANT
300 SQ. FT. PER OCCUPANT (TABLE 1004.1.2) 131 SQ. FT. IN STORAGE ROOM = 1 OCCUPANT
MAXIMUM CALCULATED OCCUPANCY = 52 OCCUPANTS

ADMINISTRATION AREA / SUITE (ELEMENTARY SCHOOL)
100 SQ. FT. PER OCCUPANT (TABLE 1004.1.2)
MAXIMUM CALCULATED OCCUPANCY = 16 OCCUPANTS FOR 1,609 SQ. FT.

BUILDING AREA LEGEND

BUILDING AREA	ACTUAL AREA	TOTAL ALLOWABLE
	= 38,015 SQ. FT.	68,251 SQ. FT.

= 11,405 SQ. FT. OF NEW

= 26,300 SQ. FT. OF EXISTING

= EXIT (KBC 1001.4)

ENERGY CODE COMPLIANCE

A.
1. EXISTING BUILDING - ROOF REPLACEMENT, WINDOW AND DOOR REPLACEMENT.
2. 2012 IECC PRESCRIPTIVE - COMPLIANT.

B.
1. NEW ADDITION - COMCHECK
2. ASHRAE 90.1 (2010) - COMPLIANT

FIRE PUMP HOUSE

ACTUAL AREA	=	205 SQ. FT.
USE GROUP	=	U
CONSTRUCTION TYPE	=	5-B

MINIMUM FIRE RESISTANCE RATINGS

ROOM / WALL DESIGNATION

FR2 2 HR RATED FIRE RESISTANT RECORDS ROOM (KDE REQUIREMENT - IN EXCESS OF BLDG. CODE)

UL ASSEMBLY RATINGS (TABLE 601)

FW2 - U930 - 2HR - 4HR FIREWALL RATING - 6" , 8" OR 12" I.C.F. WALL

FB1 - U906 1HR FIRE BARRIER - 8" CMU WALL

FB2 - U905 2 HR FIRE BARRIER - 8" CMU WALL

HA2 - WHI-438 2HR HORIZONTAL ASSEMBLY - 1" FIRE RATED GYPSUM WALL BOARD SHAFT LINER PANEL, 4" C-H METAL STUDS, (2) LAYER 5/8" FIRECODE TYPE "C" GYP C.I.G. BD. - REFER TO GA6.2

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

M. SCOTT SHIELD, KY LICENSED ARCHITECT NO. 32263, SHERMAN CARTER BARNHART ARCHITECTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

CODE INFORMATION

JOB NO.	1569
DATE	07/10/2019
DRAWN	DF, CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

C0.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
(D) CODE INFORMATION.dwg
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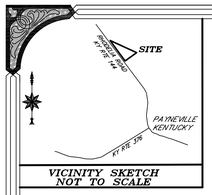


VICINITY SKETCH
NOT TO SCALE

ALL BEARINGS AND DISTANCES SHOWN ON BASED ON KENTUCKY SINGLE ZONE STATE PLANE COORDINATE SYSTEM NAD83 (2011). ALL ELEVATIONS SHOWN HEREON ARE NAVD88 GEOID12B.

NOTE: NO TITLE REPORT WAS PROVIDED FOR THIS SURVEY. NO SUBSURFACE LOCATION HAS BEEN COMPLETED AND THEREFOR ALL UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION.

THE PROPERTY SHOWN HEREON IS LOCATED IN ZONE X "AREA OF MINIMAL FLOOD HAZARD" WHICH IS NOT A FLOOD PRONE AREA ACCORDING TO THE FIRM MAP 21163C0200C DATED JULY 18, 2011.

PLAT OF SURVEY
FOR

MEADE COUNTY SCHOOLS

SITUATED IN
MEADE COUNTY
KENTUCKY

9.625 AC.
419271 SF

BOARD OF EDUCATION
OF MEADE COUNTY, KENTUCKY
D.B. 235, PAGE 286

DONALD H. & OLIVIA J. HAYES
D.B. 105, PAGE 69

LESLIE K. & MICHAEL C. REDMON
D.B. 369, PAGE 133

COMMONWEALTH OF KENTUCKY
D.B. 84, PAGE 493

S 65°42'58" E 1403.85'

S 34°16'19" W 683.52'

N 35°47'07" W 513.23'

N 36°19'48" W 671.88'

N 15°44'31" W 264.18'

5' STRAND BARBED WIRE FENCE

WHITE VINYL 3 BOARD FENCE

6' TALL CHAIN LINK FENCE

8' TALL CHAIN LINK FENCE

4' TALL CHAIN LINK FENCE

C.L. WATER LINE AS LOCATED BY MEADE COUNTY WATER DISTRICT

SAND FILTER AREA

10" CLAY PIPE

12" PINE TREE

BENCH MARK
1/2" IP W/CAP STAMPED
M. SIBOLE PLS 3869
ELEV. 786.84'

BENCH MARK
1/2" IP W/CAP STAMPED
M. SIBOLE PLS 3869
ELEV. 785.51'

BENCH MARK
MAGNUB IN THE SIDE OF
A 4" x 4" WOOD POST
ELEV. 792.49'

BENCH MARK
1/2" IP W/CAP STAMPED
M. SIBOLE PLS 3869
ELEV. 791.48'

1/2" IP FOUND

3/8" IP FND (BND)

BASKET BALL POLE

TETHER BALL POLE

SAN. MH
RIM 787.07'

SAN. MH
RIM 787.14'

SAN. MH
RIM 787.11'

SAN. MH
RIM 793.10'

SAN. MH
RIM 794.49'

SAN. MH
RIM 794.88'

MULCH PLAYGROUND AREA

SWING SET

CONC. PAD

GRAVEL

BLOCK BUILDING
400.18 SQ. FT.
FFE 791.00'

BRICK SCHOOL BUILDING
26,123.52 SQ. FT.

BUSHES

CONC. WALK

GRAVEL DUMPSTER PAD

SWING SET
MULCH AREA

MULCH PLAYGROUND AREA

GRAVEL PARKING AREA

STOP SIGN

LIGHT POLE

GATE POST

4" WOOD POST

2" PIPE RAILING

18" DIAM.

WATER METER

PAVED DRIVE

MAILBOX

21" MAPLE

29" MAPLE

20" MAPLE

12" PINE

1/2" TREE

C/O

DE

OT

OHE

UT

WL

MAILBOX

LEGEND

- ● DENOTES: 1/2" IRON PIN FOUND OTHERWISE NOTED
- ○ DENOTES: 1/2" X 18" REBAR SET WITH GREEN PLASTIC CAP STAMPED M. SIBOLE PLS 3869
- ▲ DENOTES: MEANDER POINT NOT SET. TYPICAL
- ☼ DENOTES LIGHT POLE
- UP DENOTES UTILITY POLE
- Ⓢ DENOTES SANITARY MAN HOLE
- OE — DENOTES OVERHEAD ELECTRIC
- OT — DENOTES OVERHEAD TELEPHONE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAT DEPICTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, AND MEETS THE REQUIRMENTS OF A CLASS A (URBAN) SURVEY. THIS SURVEY WAS COMPLETED USING A JAVAD LS ROVER AND A JAVAD TRIUMPH 2 BASE. THIS SURVEY WAS CONDUCTED BY METHOD OF RTK GPS. THE HORIZONTAL DATUM USED IS NAD83 (KENTUCKY SIGNLE ZONE STATE PLANE). THE VERTICLE DATUM IS NAVD88 (GEOID12B). THE RELATIVE PRECISION ACCURACY FOR ANY ONE LINE ON THIS SURVEY DOES NOT EXCEED 0.05' + 100PPM. THIS PLAT MEETS OR EXCEEDS THE MINIMUM STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS IN KENTUCKY.

5-23-19

MATTHEW D. SIBOLE — DATE
KENTUCKY PROFESSIONAL LAND SURVEYOR NO. 3869

REVISED TO SHOW
EX. WATER LINE 5/15/19
ADDED FLOOD NOTE 5/23/19

STATE of KENTUCKY
MATTHEW D. SIBOLE
3869
LICENSED PROFESSIONAL LAND SURVEYOR

PLAT OF SURVEY

PROPERTY BELONGING TO
MEADE COUNTY SCHOOLS
1155 OLD EKRON ROAD
BRANDENBURG, KENTUCKY 40108

THIS PLAT OF SURVEY REPRESENTS A BOUNDARY SURVEY AND COMPLIES WITH 201 KAR 18:150

SURVEY PLAT OF ALL OF THE 10 ACRE TRACT AS CONVEYED BY DEED TO THE MEADE COUNTY SCHOOLS IN DEED BOOK 235, PAGE 286 OF THE MEADE COUNTY, KENTUCKY, CLERKS RECORDS.

LOCATED ALONG THE NORTHERLY RIGHT-OF-WAY OF KY RTE 144 NORTH OF KY RTE 376 IN PAYNEVILLE, KENTUCKY.

SCALE: 1" = 40'
DATE: 6/23/17
DWN BY: M.D.S
JOB NO.: 17068
PAYNEVILLE

MATTHEW SIBOLE SURVEYING
PROUDLY SERVING ALL OF KENTUCKY
P.O. BOX 1008
BRANDENBURG, KENTUCKY 40108
270-422-7737

SITE DEMOLITION KEY

1. REMOVE EXISTING GRAVEL. STOCKPILE STONE FOR REUSE.
2. REMOVE EXISTING ASPHALT AND SUB BASE COMPLETELY.
3. REMOVE EXISTING CONCRETE AND SUB BASE COMPLETELY.
4. REMOVE EXISTING FENCE, POST, GATE AND FOUNDATION COMPLETELY.
5. REMOVE EXISTING STRUCTURE AND FOUNDATIONS COMPLETELY.
6. SAWCUT TO PROVIDE CLEAN EDGE.
7. MILL AND OVERLAY ASPHALT.
8. EXISTING STORM - REFER TO SD2.0.
9. EXISTING UTILITY. REFER TO SITE UTILITY PLAN.
10. REMOVE EXISTING TREE, SHRUB, OR VEGETATION SYSTEM COMPLETELY.
11. REMOVE EXISTING GUARDRAIL COMPLETELY.
12. REMOVE EXISTING WHEELSTOP COMPLETELY.
13. REMOVE EXISTING SIGN COMPLETELY.
14. EXISTING TETHERBALL POLE TO BE SALVAGED AND RETURNED TO OWNER. COORDINATE FUTURE USE/REINSTALLATION WITH OWNER.
15. REMOVE EXISTING PLAYGROUND EQUIPMENT COMPLETELY.
16. REMOVE EXISTING PLAYGROUND MULCH, PLASTIC RETAINING WALL, AND SUB BASE COMPLETELY.
17. REMOVE BASKETBALL GOAL, POLE, AND FOUNDATION COMPLETELY

EXISTING TRASH DUMPSTERS TO BE RELOCATED. PROTECT DURING CONSTRUCTION.

PROJECT LIMITS TO EXTEND 10'-0" BEYOND FUTURE GEOTHERMAL FIELD. COORDINATE WITH UTILITY PLANS.

EXISTING RECYCLING BIN TO BE RELOCATED. PROTECT DURING CONSTRUCTION.

EXISTING WALL TO BE REMOVED. COORDINATE WITH ARCH.

REMOVE CONCRETE TO NEAREST CONTROL JOINTS ON OUTER SIDE OF COLUMNS. CONTRACTOR TO REPLACE ALL DISTURBED CONCRETE AREAS WITH CONCRETE AND ALL DISTURBED ASPHALT AREAS WITH ASPHALT.

COLUMNS AND OVERHEAD CANOPY TO BE REMOVED. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS.

EXISTING CONCRETE TO REMAIN

MAILBOX TO BE MOVED. CONTRACTOR TO COORDINATE FUTURE PLACEMENT WITH SCHOOL AND SITE WORK.

EXISTING GRAVEL TO REMAIN

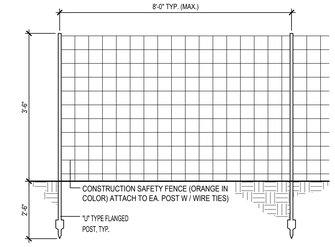
ALL WORK IN RIGHT OF WAY SHOWN ON THIS SHEET, IS PART OF ALTERNATE #3. REFER TO GRADING AND DRAINAGE SHEETS AND ALTERNATE DESCRIPTIONS FOR ADDITIONAL INFORMATION

MAILBOX TO BE MOVED. CONTRACTOR TO COORDINATE FUTURE PLACEMENT WITH SCHOOL, HOMEOWNER, AND SITE WORK. PLACEMENT MUST MEET REQUIREMENTS OF THE U.S. POSTAL SERVICE.

ALL WORK IN RIGHT OF WAY SHOWN ON THIS SHEET, IS PART OF ALTERNATE #3. REFER TO GRADING AND DRAINAGE SHEETS AND ALTERNATE DESCRIPTIONS FOR ADDITIONAL INFORMATION

LEGEND

- PROJECT LIMITS (WHEN OTHER THAN PROPERTY LINE)
- TREE PROTECTION FENCE. REFER TO DETAIL A / DS1.0
- MILL AND OVERLAY ASPHALT
- EXISTING GRAVEL TO BE REMOVED
- EXISTING ASPHALT TO BE REMOVED



TEMPORARY TREE PROTECTION FENCE A
N.T.S.

SCALE: 1" = 20'-0"

0 10 20 80 SCALE IN FEET

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE DEVELOPMENT PLAN

JOB NO.	1569
DATE	7/10/2019
DRAWN	
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

DS1.0

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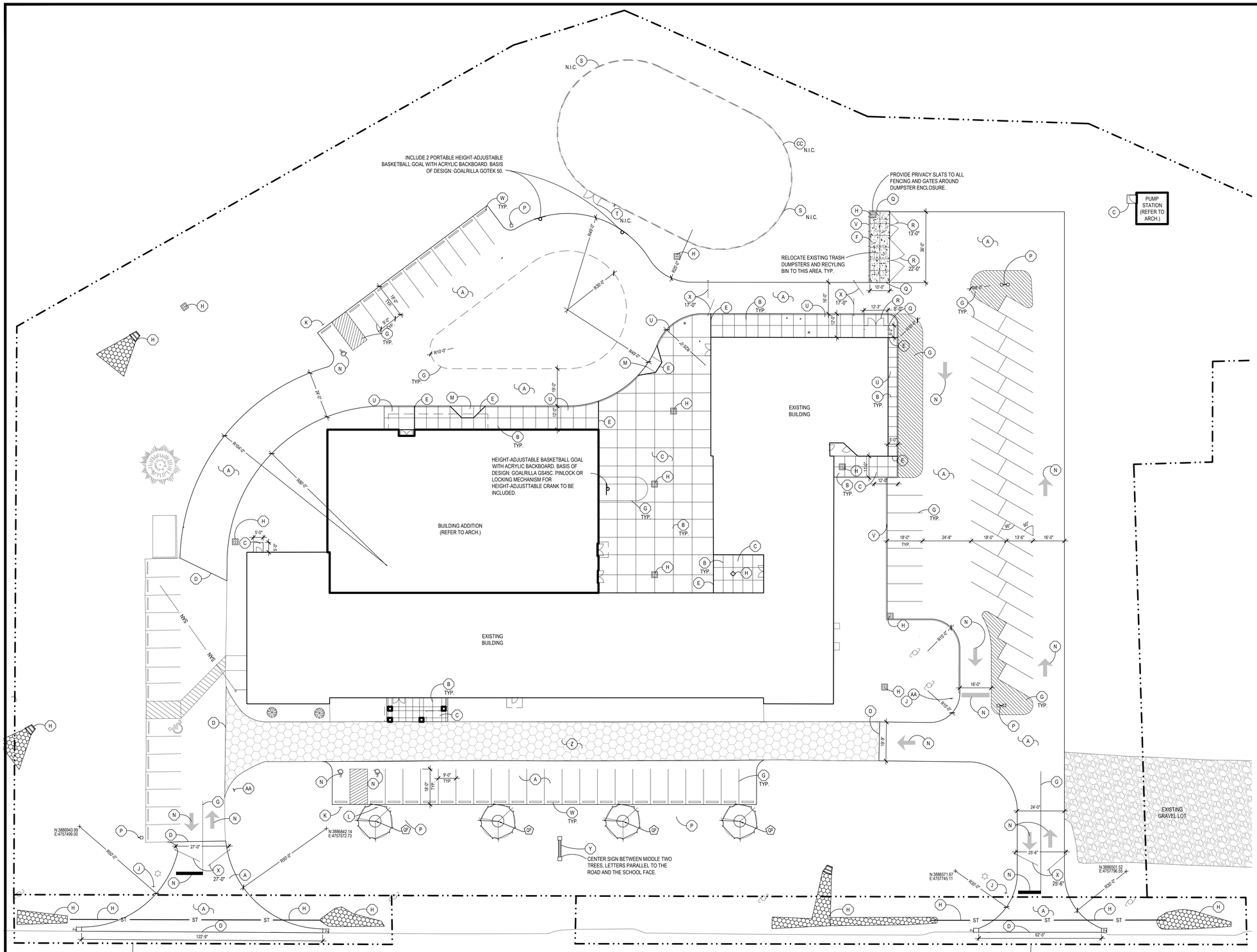

ALL WORK IN RIGHT OF WAY SHOWN ON THIS SHEET, IS PART OF ALTERNATE #3. REFER TO GRADING AND DRAINAGE SHEETS AND ALTERNATE DESCRIPTIONS FOR ADDITIONAL INFORMATION

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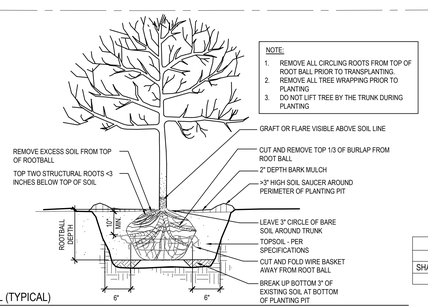

A TREE PLANTING DETAIL (TYPICAL)
N. T. S.

PLANT LIST

KEY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	NOTES
SHADE TREES					
QP	QUERCUS PHELLOS	WILLOW OAK	B & B	3" CAL.	

BEFORE ANY WORK IS PERFORMED ON KY STATE RIGHT OF WAY, CONTRACTOR SHALL CONTACT KEVIN BLAIN - KYTC D4 @ 270-766-5066 TO SCHEDULE PRE-CONSTRUCTION MEETING ON SITE. REFER TO KYTC D4 ENCROACHMENT PERMIT GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

SITE DETAILS KEY

KEY	DESCRIPTION	DETAIL
A	ASPHALT PAVEMENT	AP / SD3.0
B	1/4" TOOLED CONTROL JOINT (TYP.)	
C	CONCRETE WALK	CW / SD3.0
D	EDGE KEY	EK / SD3.0
E	1/2" EXPANSION JOINT MATERIAL W / SEALANT (TYP.)	
F	CONCRETE PAVING	CP / SD3.0
G	4" WIDE WHITE PAINT STRIPE (TYP.)	SEE SPECS.
H	STORM SEWER STRUCTURE	SEE GRADING AND DRAINAGE SHEETS
J	STOP SIGN	TS / SD3.0
K	STANDARD DISABLED PARKING SIGN	AS / SD3.0
L	"VAN ACCESSIBLE" SIGN	AS / SD3.0
M	CURB RAMP	CR / SD3.0
N	PAVEMENT APPLIED GRAPHICS	PG / SD3.0
P	SITE UTILITY	SEE MECH/ELEC
Q	6'-0" TALL CHAIN LINK FENCE	CF / SD3.0
R	6'-0" TALL DOUBLE SWING CHAIN LINK GATE	CF / SD3.0
S	4'-0" TALL CHAIN LINK FENCE	CF / SD3.0
T	4'-0" TALL DOUBLE SWING CHAIN LINK GATE	CF / SD3.0
U	CONCRETE WALK WITH TURNED DOWN EDGE	TW / SD3.0
V	HEADER CURB	HC/ SD3.0
W	WHEELSTOP	WS / SD3.0
X	VEHICULAR GATE	VG / SD3.0
Y	MASONRY SIGN	MS / SD3.1
Z	ASPHALT MILL AND OVERLAY	AP / SD3.0
AA	DO NOT ENTER SIGN	TS/ SD3.0
BB	_____	__ / SD3.0
CC	PLASTIC BORDER TIMBERS	N.I.C.
QP	SHADE TREE	A / SD1.0

CONCRETE PAVING — CP / SD3.0

MILL AND OVERLAY ASPHALT — AP / SD3.0

LEGEND

PROJECT LIMITS (WHEN OTHER THAN PROPERTY LINE)

ALTERNATE # 3 NOTE:

ALL WORK IN RIGHT OF WAY IS TO BE INCLUDED IN BID BUT PRICED AS ALTERNATE WORK.

GENERAL NOTES:

1. PROVIDE 1/2" EXP. JT. MATERIAL W / SEALANT WHERE NEW CONC. CURBS, WALKS, OR PAVING ABUT STORM SEWER STRUCTURES, BUILDINGS, ETC.
2. AT END OF PROJECT, CONTRACTOR SHALL REMOVE ALL TEMPORARY FENCING, TEMPORARY EROSION CONTROL STRUCTURES, AND OTHER TEMPORARY SERVICES ON SITE.
3. ALL RADII ARE TO BE 5' UNLESS SHOWN OTHERWISE.
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL GOVERNING AGENCIES.
5. ALL PERMITS AND BONDS ARE THE RESPONSIBILITY OF THE CONTRACTOR
6. ANY AREAS DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE SEED UNLESS OTHERWISE NOTED, AND SHALL BE MAINTAINED UNTIL LAWN IS ESTABLISHED, AT NO ADDITIONAL COST TO THE OWNER. REFER TO SHEET SD1.1 FOR SEED/SOD PLACEMENT.
7. UTILITIES ON THIS SHEET ARE FOR REFERENCE ONLY, REFER TO UTILITY DRAWINGS FOR LOCATIONS. UNLESS OTHERWISE DIMENSIONED ON THIS SHEET.
8. CONTRACTOR TO COORDINATE STAGING, CONSTRUCTION ENTRANCE, AND NEW WORK WITH OWNER.
9. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR CONCRETE WALK CONNECTION TO BUILDING SLAB AT DOORWAYS
10. CIVIL CAD FILES WILL BE AVAILABLE TO SUCCESSFUL CONTRACTOR FOR LAYOUT PURPOSES UPON CONTRACTOR SIGNING OF RELEASE FORM. ANY ADDITIONAL DIMENSIONS REQUIRED FOR LAYOUT SHALL BE REQUESTED BY THE CONTRACTOR.
11. WHERE NEW UTILITY WORK OCCURS IN EXISTING PAVEMENT (REFER TO MEP PLANS), CONTRACTOR SHALL CUT AND PATCH PAVEMENT AS REQUIRED TO COMPLETE NEW WORK AND RESTORE PAVEMENT USING NEW ASPHALT PAVEMENT SECTION (AP/SD3.0). WHERE NEW ASPHALT PAVEMENT ABUTS EXISTING ASPHALT PAVEMENT USE EDGEKEY (EK/SD3.0). CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL DRAWINGS INCLUDING ALL SITE UTILITY DRAWINGS AND ASSOCIATED UTILITY TRENCHING.
12. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS SHOWN OTHERWISE.

JOB SITE SAFETY:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION. JOB SITE SAFETY IS OUTSIDE THE SCOPE OF WORK OF SHERMAN CARTER BARNHART (SCB). NEITHER THE PROFESSIONAL ACTIVITIES OR THE PRESENCE OF SCB EMPLOYEES OR SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF THEIR OBLIGATION, DUTIES, AND RESPONSIBILITIES INCLUDED, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, TO PROCEDURES NECESSARY FOR PERFORMING SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY GOOD CONSTRUCTION PRACTICES OR ANY REGULATORY AGENCIES. ANYONE USING INFORMATION FROM THESE PLANS ACKNOWLEDGES AND WARRANTS THAT SHERMAN CARTER BARNHART IS NOT RESPONSIBLE FOR SITE SAFETY IN ANY WAY.

ASPHALT NOTE:

EXISTING AND PROPOSED ROADS AND PARKING AREAS ARE NOT DESIGNED TO ACCOMMODATE HIGH LOADS CREATED BY CONSTRUCTION VEHICLES. CONTRACTOR SHALL MAINTAIN, STABILIZE, AND REPAIR SUBGRADE/STONE BASE AND EXISTING ASPHALT PAVEMENT DAMAGED BY CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.

SCALE: 1" = 20'-0"

SCALE IN FEET

0 10 20 80

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY — BRIAN K. MONTICH — LICENSED ARCHITECT — 575

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE DEVELOPMENT PLAN

JOB NO.	1569
DATE	7/10/2019
DRAWN	HM
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD1.0

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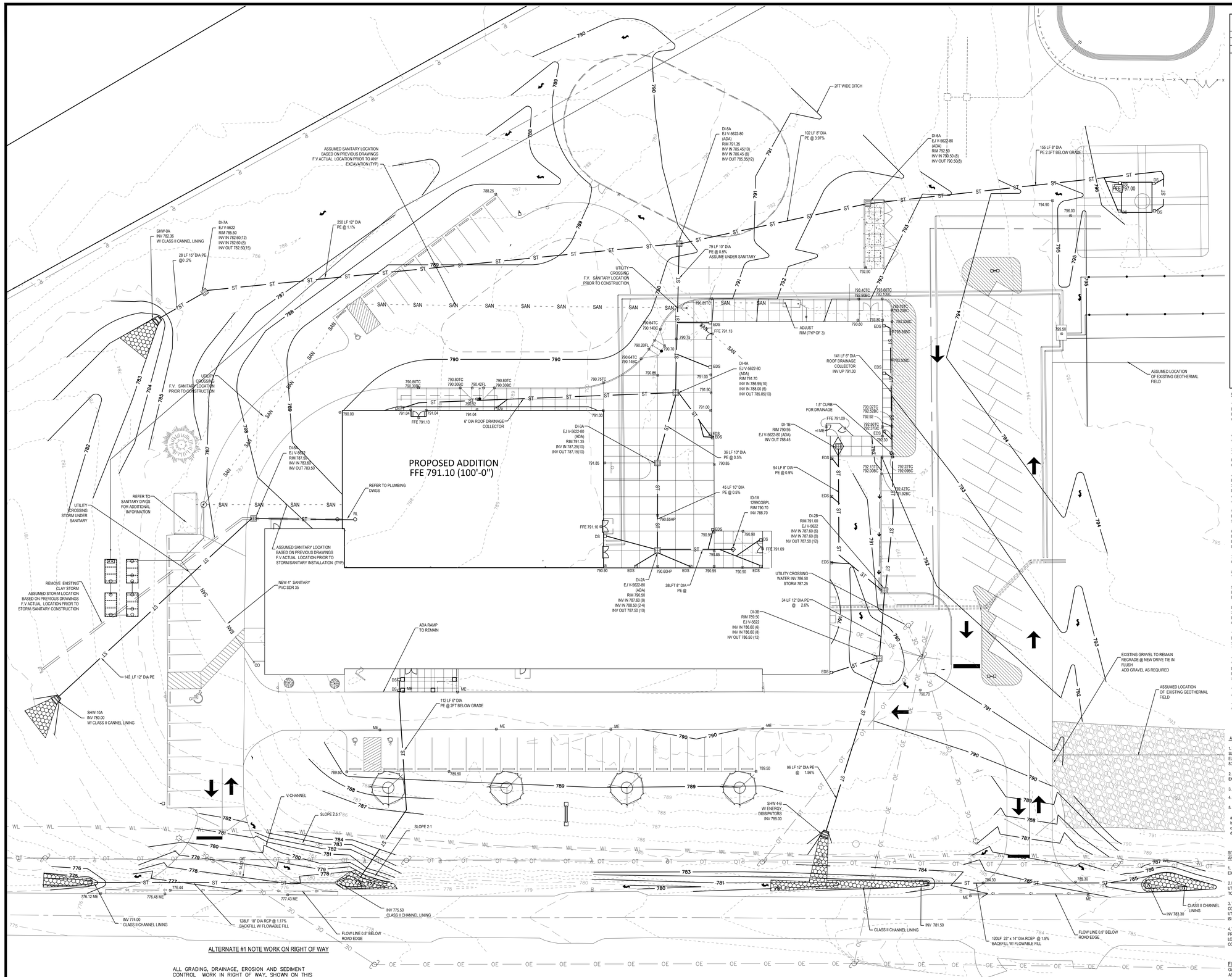

GRADING SITE LEGEND

REFER TO TOPOGRAPHIC SURVEY FOR EXISTING UTILITIES LEGEND

REFER TO SITE DEVELOPMENT PLANS FOR SITE LEGEND

SYMBOLS	DESCRIPTION
500	EXISTING CONTOUR MINOR
500	EXISTING CONTOUR MAJOR
500	PROPOSED CONTOUR MINOR
500	PROPOSED CONTOUR MAJOR
x979.5	EXISTING SPOT ELEVATION
979.55	PROPOSED SPOT ELEVATION (AT GUTTER LINE ADD 6" FOR TOP OF CURB ELEVATION)
979.55 FL	CHANNEL FLOW LINE ELEVATION
979.55 HP	PROPOSED SPOT ELEVATION HIGH POINT @ BREAKLINE
979.55 TC	PROPOSED SPOT ELEVATION TOP OF CURB/CONCRETE
979.55 GL	PROPOSED SPOT ELEVATION GUTTER LINE
979.55 CW	PROPOSED SPOT ELEVATION CONCRETE WALK
979.55 ME MATCH EXIST	EXISTING FIELD VERIFIED SPOT ELEVATION (AT GUTTER LINE ADD 6" FOR CURB ELEVATION)
979.55 FL	PROPOSED SPOT ELEVATION FLUSH AT GUTTER LINE
979.55 FF	PROPOSED FINISH FLOOR ELEVATION
979.55 CC	PROPOSED CURB CUT ELEVATION
979.55 TW	PROPOSED SPOT ELEVATION TOP OF WALL
979.55 BW	PROPOSED SPOT ELEVATION BOTTOM WALL AT GRADE
DI	DROP INLET SQUARE OR ROUND DI/SD4.0
SHW	STANDARD HEADWALL SHW/SD4.0
RL	ROOF LEADERS ARE SHOWN FOR REFERENCE ONLY SEE PLUMBING DRAWINGS FOR EXACT LOCATION, SIZE AND INVERTS
DS EDS	NEW OR EXISTING DOWNSPOUTS ARE SHOWN FOR REFERENCE ONLY REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION PROVIDE BOOTS PER/DS/SD4.0)
	4" PERFORATED SMOOTH INTERIOR PIPE W/ FILTER FABRIC SUBSURFACE DRAINAGE PUD/SD4.0
ST	STORM SEWER ST/SD4.0
	EXISTING STORM SEWER
1.0 %	GRADE/SLOPE
	RUNOFF FLOW ARROW
	HANDICAPPED RAMP MAX SLOPE 8.33%
F.V.	FIELD VERIFY EXISTING CONDITIONS AND ADJUST ACCORDINGLY
	CLASS II CHANNEL LINING

GRADING AND DRAINAGE NOTES:

1. ALL EARTHWORK FOR THIS PROJECT SHALL BE UNCLASSIFIED EXCAVATION TO PLAN BOTTOM DEPTH. PLAN BOTTOM DEPTH IS DEFINED AS THE LOWEST ELEVATION OF EXCAVATION. THIS INCLUDES BOTTOM OF EXCAVATION FOR FOUNDATIONS, UTILITIES, ROADS, PARKING, SIDEWALKS, REQUIRED UNSUITABLE SOILS UNDERCUTTING AND/OR ROCK REMOVAL AS INDICATED OR NOTED ON DRAWINGS OR GEOTECHNICAL REPORT.

2. AREAS THAT WILL SUPPORT FOUNDATIONS, FLOORS, PAVEMENTS, SHALL BE PROPERLY PREPARED AS SPECIFIED IN ACCORDANCE WITH GEOTECHNICAL EXPLORATION REPORT PREPARED BY AEI INC DATED MARCH 28 2019 AND SHALL BE APPROVED BY ON-SITE THE GEOTECHNICAL ENGINEER/TESTING AGENCY.

3. PRIOR TO CONSTRUCTION OR THE PLACEMENT OF NEW ENGINEERED FILL, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE EVALUATION SHALL INCLUDE PROOFROLLING OF THE EXPOSED SUBGRADE. IF UNSUITABLE MATERIALS AREA DISCOVERED, AN APPROPRIATE REMEDIAL MEASURE WOULD BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER AT THAT TIME.

4. CARE MUST BE EXERCISED DURING GRADING AND FILL PLACEMENT OPERATIONS. THE COMBINATION OF CONSTRUCTION EQUIPMENT TRAFFIC AND EXCESS SURFACE MOISTURE CAN CAUSE PUMPING AND DETERIORATION OF THE NEAR SURFACE SOILS. THE SEVERITY OF THIS POTENTIAL PROBLEM DEPENDS TO A GREAT EXTENT ON THE WEATHER CONDITIONS PREVAILING DURING CONSTRUCTION. THE CONTRACTOR MUST EXERCISE DISCRETION WHEN SELECTING EQUIPMENT SIZES AND ALSO MAKE A CONCERTED EFFORT TO CONTROL SURFACE WATER WHILE THE SUBGRADE SOILS ARE EXPOSED. IF SUCH PROBLEMS DO ARISE, THE GEOTECHNICAL ENGINEER SHOULD BE CONTACTED TO EVALUATE THE CONDITION.

5. ENGINEERED FILL PLACEMENT AND COMPACTION OPERATIONS SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FIELD DENSITY TESTS MUST BE PERFORMED ON EACH LIFT AS NECESSARY TO CHECK THAT THE SPECIFIED COMPACTION IS BEING ACHIEVED

6. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL OTHER UTILITIES PRIOR TO CONSTRUCTION, AND SHALL CLOSELY MONITOR UTILITY INSTALLATION BY OTHERS. IT IS RECOMMENDED TO INSTALL GRAVITY STORM AND SANITARY LINES PRIOR TO ELECTRICAL, COMMUNICATION AND WATER LINES. BURY DEPTH CONFLICTS DUE TO NON COORDINATION WILL NOT SUBJECT TO CHANGE REQUEST.

7. EXCAVATION, ROCK REMOVAL, TOPSOIL STOCKPILES, DETENTION POND BERMS, UTILITY TRENCHES, AND OTHER ASPECTS OF CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE OSHA REGULATIONS 1926.650-652.

8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT CIVIL ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.

9. THE PRINCIPLES OF POSITIVE DRAINAGE SHALL BE APPLIED UNIVERSALLY ACROSS THE SITE. WATER SHALL BE MOVED AWAY FROM THE BUILDINGS, WATER SHOULD NOT BE ALLOWED TO POND AT LOW POINTS OR IN LOW AREAS. FINISH SUBGRADE TO REQUIRED ELEVATION WITHIN THE FOLLOWING TOLERANCES:

LAWN OR UNPAVED AREAS: PLUS OR MINUS 0.1FT.
SIDEWALKS: PLUS OR MINUS 0.1FT.
PAVEMENT: PLUS OR MINUS 0.05FT.
GRADING INSIDE BUILDING LINE TO A TOLERANCE OF 0.05 FT WHEN TESTED WITH A 10 FOOT STRAIGHTEDGE

10. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEANUP TO REMOVE ALL TRASH, DEBRIS, EXCESS MATERIALS, EQUIPMENT, AND OTHER DELETERIOUS MATERIALS ASSOCIATED WITH CONSTRUCTION. THE SITE CONTRACTOR IS EXPRESSLY RESPONSIBLE FOR ENSURING THE SITE IS CLEAN AND IN OPERABLE CONDITION AT THE TIME OF FINAL ACCEPTANCE.

11. PROPOSED ROAD AND PARKING AREAS ARE NOT DESIGNED TO ACCOMMODATE HIGH LOADS CREATED BY CONSTRUCTION VEHICLES. CONTRACTOR SHALL MAINTAIN, STABILIZE AND REPAIR SUBGRADE/STONE BASE AND EXISTING ASPHALT PAVEMENT DAMAGED BY CONSTRUCTION TRAFFIC AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE PROVIDE AND MAINTAIN TEMPORARY CONSTRUCTION ROAD IN ACCORDANCE WITH CONTRACTOR CONSTRUCTION METHOD AND SCHEDULE.

12. IF EXISTING FOUNDATION DRAINS EXIST AT EXISTING FOUNDATIONS. RECONNECT AND EXTEND EXISTING FOUNDATION DRAIN AS REQUIRED TO PROVIDE SUBSURFACE DRAINAGE.

13. ALL VALVE, MITERS AND MANHOLE COVERS SHALL BE ADJUSTED TO MATCH THE PROPOSED GRADES AT AREAS OF NEW WORK. (TYP)

ACCESSIBILITY INFORMATION:

1. THE ELEVATION OF ALL EXTERIOR WALKS AND SLABS SHALL BE FLUSH WITH FINISH FLOOR ELEVATION AT ALL DOORS, AND SHALL SLOPE NO MORE THAN 2% WITHIN 5' OF THOSE DOORS. ELSEWHERE EXTERIOR WALKS AND SLABS SHALL CONFORM TO THE SPOT ELEVATIONS AND CONTOURS INDICATED AND IN NO CASE SHALL EXCEED 5% SLOPE EXCEPT AT CURBS RAMPS WHICH SHALL SLOPE 8.33% (MAX.). CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 2.0%.

2. GRATING LOCATED WITHIN ROUTE SHALL BE POSITIONED PERPENDICULAR TO DIRECTION OF THE TRAVEL. SLOT WIDTH SHALL NOT EXCEED 1/2" UNLESS OTHERWISE NOTED.

3. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACES SLOPES NOT EXCEEDING 2.0% (1:50)

4. TRANSITIONS FROM RAMPS TO WALKS, SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.

5. RAMPS TO BUILDING: WHERE INDICATED

a. MINIMUM WIDTH 48" SEE PLAN FOR ACTUAL DIMENSION.
b. SLOPE TO BE 1:12 MAXIMUM TO 1:20.
c. CROSS SLOPE 2% MAXIMUM.
d. FLARED SIDES: MAXIMUM SLOPE 1:10.

SITE UTILITIES NOTES. REFER TO M & E DRAWINGS FOR DEMOLITION AND INSTALLATION OF NEW UTILITIES. SANITARY AND WATER LINES ARE SHOWN FOR COORDINATION ONLY.

1. CONTRACTOR SHALL CALL KENTUCKY 811 AT LEAST 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION, TO LOCATE AND MARK EXISTING UTILITIES.

2. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFE GUARD UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE SITE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. IF SERVICE IS INTERRUPTED CONTRACTOR IS RESPONSIBLE FOR RESTORING SERVICE BY REPAIRING THE DAMAGED UTILITY AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

FIELD QUALITY CONTROL:

OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM THE SPECIAL INSPECTION AND QUALITY ASSURANCE TESTING AS REQUIRED IN ACCORDANCE WITH THE LATEST EDITION OF KENTUCKY BUILDING CODE CHAPTER 17 AND EARTHWORK SPECIFICATION. CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL SCHEDULING, PLANNING AND INSPECTION TO ENSURE PROPER TESTING BY OWNER'S TESTING AGENCY IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS AND EARTHWORK SPECIFICATION.

ENGINEERING FILL

CONTRACTOR SHALL ANTICIPATE HARVESTING FOR LEAN CLAY ON SITE BEYOND SHOWN LIMIT OF DISTURBANCE AS NECESSARY TO CONSTRUCT BUILDING PAD. ALL AREAS DISTURBED BY THE HARVESTING SHALL BE RESTORED WITH CONSISTENT GENTLE SLOPE RANGING FROM 1% TO 15%. AND SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. PERIMETER SEDIMENT CONTROL SHALL BE INSTALLED ACCORDINGLY.

CONTRACTOR HAS AN OPTION TO IMPORT SOIL FILL AS REQUIRED TO CONSTRUCT BUILDING PAD AND PAVEMENT, IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATION AS REQUIRED TO ACHIEVE PROPOSED ELEVATION. PRIOR TO BRINGING SOIL MATERIALS ON SITE, ANY OFF-SITE SOILS SHALL BE TESTED AND APPROVED BY THE OWNER TESTING AGENCY. IMPORT SOIL FILL SHALL BE UNIFORM AND CONSISTENT.

SCALE: 1" = 20'-0" SCALE IN FEET

0 10 20 80

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

STATE OF KENTUCKY LICENSED PROFESSIONAL ENGINEER RACHEL K. HUGHES 19810 7/10/2019

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE GRADING AND DRAINAGE PLAN

JOB NO.	1569
DATE	7/10/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD2.1

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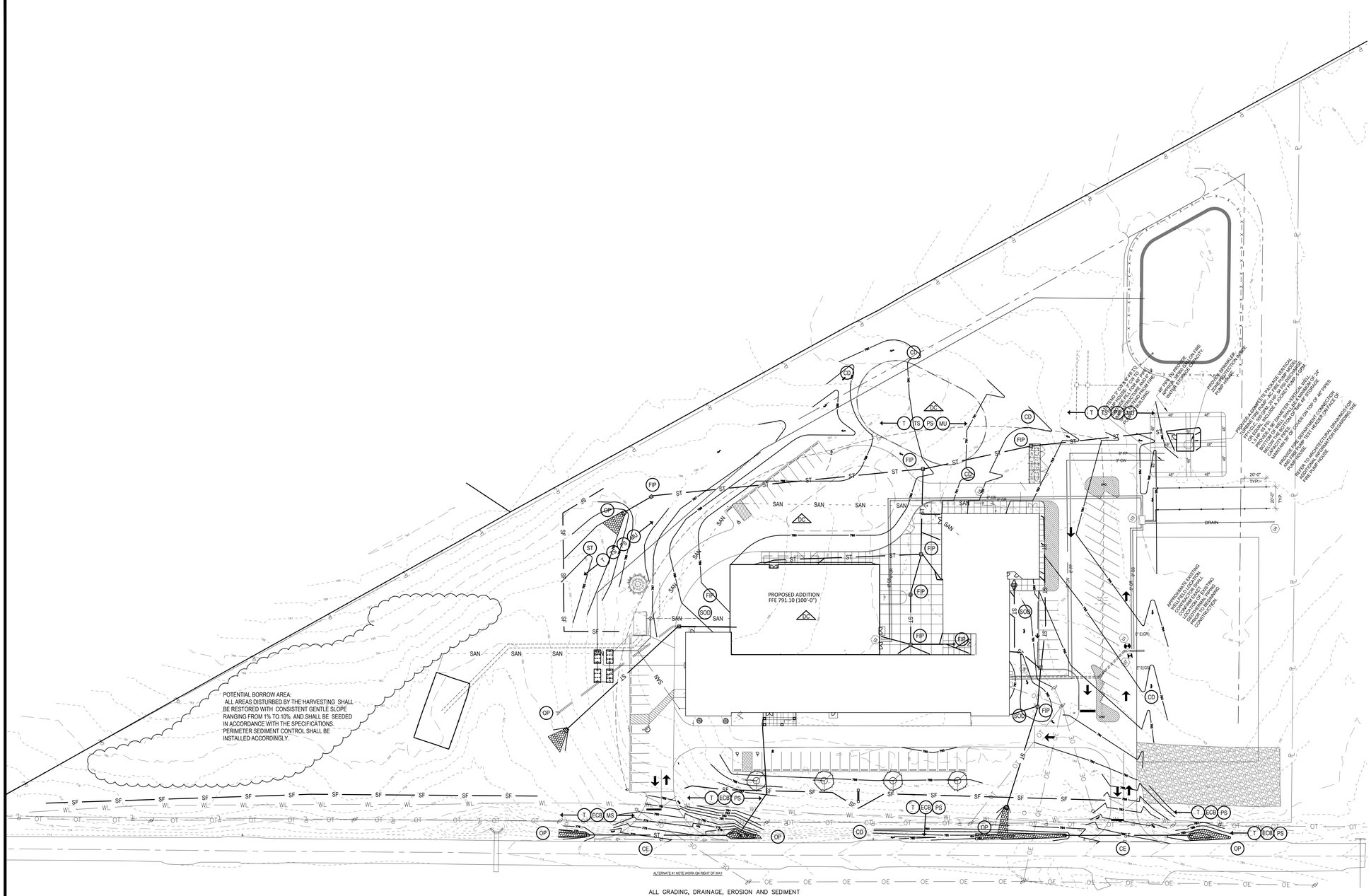

ALL GRADING, DRAINAGE, EROSION AND SEDIMENT CONTROL WORK IN RIGHT OF WAY, SHOWN ON THIS SHEET IS AN ALTERNATE. REFER TO SITE DEVELOPMENT SHEETS FOR ADDITIONAL INFORMATION

BEFORE ANY WORK IS PERFORMED ON KY STATE RIGHT OF WAY, CONTRACTOR SHALL CONTACT KEVIN BLAIN– KYTC D4 @ 270–766–5066 TO SCHEDULE PRE–CONSTRUCTION MEETING ON SITE

REFER TO KYTC D4 ENCROACHMENT PERMIT GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

EROSION CONTROL LEGEND

SYMBOLS	DESCRIPTION
CE	TEMPORARY STONE CONSTRUCTION ENTRANCE CE/SD4.1
SF	SILT FENCE SF/SD4.1
ECB	EROSION CONTROL BLANKETS SHORT-TERM DEGRADABLE BLANKET NORTH AMERICAN GREEN SC150BN OR EQ.
SLOPE STEPPER THAN 4:1	VELOCITY 8FPS & SHEAR STRESS 2.0 #/SQFT.
SLOPE STEPPER THAN 3:1	VELOCITY 10FPS & SHEAR STRESS 2.5 #/SQFT.
	REFER TO MANUFACTURE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS
PS	PERMANENT SEEDING REFER TO LANDSCAPING SPECIFICATION FOR DETAILS
MU	MULCHING
TS	TEMPORARY SEEDING
T	TOPSOILING
ST	SEDIMENT TRAP
SOD	SOD ON MIN 6" TOPSOIL
OP	OUTLET PROTECTION OP/SD4.1
CD	ROCK CHECK DAM RC/SD4.1
FIP	FILTER FABRIC INLET PROTECTION FIP/SD4.1
DC	DUST CONTROL USE OF WATER SPRAY FOR DUST CONTROL DURING EARTH WORK AND DEMOLITION. DUST CONTROL WATER RUNOFF SHALL BE CONTAINED AND MANAGED PROPERLY TO PREVENT THE TRANSPORT OF CONTAMINANTS FROM SITE

EROSION SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF THE APPROPRIATE PERSONNEL NEEDED TO CREATE AND MAINTAIN SWPPP, A BEST MANAGEMENT PRACTICES (BMP) PLAN IN ACCORDANCE WITH, KPDES STORMWATER GENERAL PERMIT KYR10, AND "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE".

2. THE EROSION CONTROL MEASURES NOTED AND SHOWN ARE MINIMUMS AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA AND / OR KENTUCKY DIVISION OF WATER REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO PROVIDE EROSION SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH CONTRACTOR CONSTRUCTION METHODS AND SCHEDULE. ANY ADDITIONAL ITEMS THAT ARE REQUIRED BY THE GOVERNING AUTHORITIES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER WHETHER THEY APPEAR ON THIS PLAN OR NOT.

3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS AND NOTIFYING THE KENTUCKY DIVISION OF WATER IN WRITING OF INTENT TO DISTURB. THE CONTRACTOR SHALL OBTAIN, SIGN AND SUBMIT THE NOTICE OF INTENT (NOI) TO THE KENTUCKY DIVISION OF WATER. A COPY OF THE SUBMITTAL AND PERMIT SHALL BE SENT TO THE OWNER AND THE ARCHITECT.

4. ALL SILT FENCE SHALL BE INSTALLED PRIOR TO MOBILIZATION. SILT FENCES TO BE CLEANED OUT WHEN THEY BECOME ONE THIRD FULL OR AFTER EVERY RAIN IN EXCESS OF ONE HALF INCH.

5. THE CONTRACTOR SHALL HAVE QUALIFIED PERSONNEL INSPECT AND ENSURE THAT ROUTINE MAINTENANCE AND NONROUTINE REPAIR IS PERFORMED TO KEEP THE BMP IN GOOD WORKING ORDER. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. IF SITE INSPECTIONS IDENTIFY BMPS THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.

6. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. BARE SOIL AREAS MUST BE SEEDED, MULCHED OR COVERED AFTER 14 DAYS WHEN FINAL OR TEMPORARY GRADE IS ESTABLISHED IF NO WORK IS PLANNED IN THAT AREA DURING THE FOLLOWING 7 DAYS (I.E. 21 CONSECUTIVE DAYS). BUT IN NO CASE MORE THAN (21) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
WHERE STABILIZATION BY THE 21ST DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE
WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE. TEMPORARY SEEDING SHALL BE PROVIDED IN ACCORDANCE WITH "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE"

7. TOPSOIL STOCKPILES AND BORROW SITES SHALL BE SURROUNDED BY SILT FENCES AND RESEEDED.

8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REMOVING DIRT AND CONSTRUCTION DEBRIS CAUSED BY CONSTRUCTION ACTIVITIES FROM THE ADJACENT ROADWAYS FOR THE DURATION OF THE PROJECT.

9. ALL POTENTIAL EROSION SHALL BE CONTROL IN SUCH MANNER SO AS TO PREVENT ANY DISPLACEMENT OF SILT TO THE ADJACENT PROPERTY OWNERS OR RIGTH-OF-WAY. THIS CONTROL SHALL BE IMPLEMENTED THROUGH PROPER INSTALLATION OF SILT FENCE DURING CONSTRUCTION AND MAINTAINED UNTIL PROPER GROUND COVER HAS BEEN ESTABLISHED.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT EROSION ONTO ADJACENT PROPERTY. ANY REMEDIAL MEASURES REQUIRED TO CORRECT DAMAGE CREATED BY EROSION SHALL BE AT THE CONTRACTOR'S EXPENSE.

10. THE EROSION CONTROL PLAN IS PREPARED AS GUIDE FOR INITIAL EROSION CONTROL MEASURES TO BE INSTALLED AT THE JOB SITE. IF EROSION OCCURS IN OTHER SPECIFIC AREAS OF THE PROPERTY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING SILT FENCE, OR OTHER EROSION CONTROL MEASURES AS NEEDED TO PREVENT EROSION AND/OR CONTROL SEDIMENTATION.

11. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REMOVAL OF EROSION PREVENTION AND SEDIMENTATION CONTROL STRUCTURES AFTER CONSTRUCTION IS COMPLETE, BUT ONLY AFTER PROPER GROUND COVER HAS BEEN ESTABLISHED.

12. THE EROSION SEDIMENT CONTROL PLAN IS CONSIDERED A "LIVING DOCUMENT". THE SWPPP WILL BE REVISED FOR ANY OF THE FOLLOWING REASONS:

- WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, PROCEDURES, OR MAINTENANCE OF THE FACILITY THAT HAS A SIGNIFICANT EFFECT ON THE POTENTIAL TO CAUSE STORM WATER POLLUTION
- IF IT IS DISCOVERED THAT THE SWPPP FAILS TO PROTECT THE WATERS OF THE U.S. FROM POLLUTION
- IF AN EVALUATION OR INSPECTION RESULTS IN THE NEED FOR REVISION OF THE SWPPP

15. ANY ALTERATIONS OR REVISIONS TO THE BEST MANAGEMENT PRACTICES / EROSION CONTROL (BMP) PLAN BASED ON THE RESULTS OF THE INSPECTION SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE BMP PLAN, AND ANY CORRECTIVE ACTIONS TAKEN SHALL BE MADE AND KEPT AS PART OF THE BMP PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF INSPECTION, OR UNTIL ONE (1) YEAR AFTER COVERAGE UNDER THIS PERMIT ENDS. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART II OF THIS PERMIT.

16. A COPY OF THE APPROVED SWPPP, EROSION AND SEDIMENT CONTROL PLANS AND COPIES OF THE WEEKLY INSPECTION REPORT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES IN THE JOB TRAILER.

17. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK.

18. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

19. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

20. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS NEEDED BUT NOT LESS THAN DAILY.

21. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

22. CONTAMINATED MATERIALS:
ALL PAINT, SOLVENT, PETROLEUM PRODUCTS (FUEL, LUBE OILS, GREASE AND CUTTING OILS) AND PETROLEUM WASTE PRODUCTS SHALL BE STORED IN CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SO THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION CONTROL, AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENTS SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND ALSO PREVENT CONTAMINATION OF GROUNDWATER.

A. CHEMICAL MANAGEMENT;
DO NOT STORE CHEMICALS, DRUMS AND BAGGED MATERIAL DIRECTLY ON THE GROUND. USE SECONDARY CONTAINMENT OR USE WOODEN PALLETS.
PROVIDE SPILL CONTAINMENT DIKES AROUND CHEMICAL AND FUEL STORAGE TANKS. LINE WITH PLASTIC FILM TO PREVENT SOIL CONTAMINATION.
STORE HAZARDOUS WASTES IN AN APPROPRIATE TYPE PF CONTAINER AND PROPERLY LABELED PER EPA, OSHA AND DOT REQUIREMENTS.

B. SOLID WASTE MANAGEMENT;
ONSITE TRASH SHOULD BE COLLECTED AND DISPOSED OF ON REGULAR BASIS. SANITARY SYSTEMS SHOULD BE REGULARLY SERVICED.
REPAIR TRASH CONTAINERS AND DUMPSTERS ON AS NEEDED BASIS. WHERE POSSIBLE PROVIDE COVER FOR WASTE CONTAINERS TO PREVENT THE ENTRY OF RAINWATER AND LOSS OF CONTENTS BY WIND.
MAINTAIN A CONTINGENCY PLAN IN THE CASE THAT HAZARDOUS OR TOXIC MATERIALS ARE DISCOVERED.

C. EQUIPMENT MAINTENANCE;
MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION.
VEHICLES AND EQUIPMENT SHOULD BE INSPECTED ON EACH DAY OF USE. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE PROBLEM VEHICLE(S) OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.

D. DESIGNATED WASH DOWN AREAS; (BY GENERAL CONTRACTOR)
PERFORM WASHOUT OF CONCRETE IN DESIGNATED AREAS ONLY. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD FREE OF HOLES, TEARS OR OTHER DEFECTS. HARDENED CONCRETE SHOULD BE BROKEN UP, REMOVED AND DISPOSED OF IN ACCORDANCE WITH SOLID WASTE MANAGEMENT.
MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURE AT LEAST WEEKLY.

E. SPILL CONTAINMENT PLAN;
COMPLY WITH SUGGESTIONS AND REQUIREMENTS SET BY LOCAL FIRE DEPARTMENT. VERIFY WEEKLY THAT SPILL CONTROL CLEAN UP MATERIALS ARE LOCATED NEAR MATERIAL STORAGE, UNLOADING AND USE AREAS. RESTOCK APPROPRIATE CLEAN UP MATERIALS AFTER A SPILL INCIDENT HAS OCCURRED.

23. AFTER COMPLETION OF CONSTRUCTION, THE SITE CONTRACTOR SHALL PERFORM SITE CLEANUP TO REMOVE ALL TRASH, DEBRIS, EXCESS MATERIALS, EQUIPMENT, AND OTHER DELETERIOUS MATERIALS ASSOCIATED WITH CONSTRUCTION. THE SITE CONTRACTOR IS EXPRESSLY RESPONSIBLE FOR ENSURING THE SITE IS CLEAN AND IN OPERABLE CONDITION AT THE TIME OF FINAL ACCEPTANCE.

24. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED.

25. ALL SLOPES 4:1 AND STEEPER THAN 4:1 SHALL REQUIRE EROSION CONTROL BLANKET S150-NORTH AMERICAN GREEN OR EQ. REFER TO MANUFACTURE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SCALE: 1" = 40'-0"

SCALE IN FEET

0 20 40 160

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

STATE OF KENTUCKY MICHAEL BRENT SHIPHES 19810 LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

EROSION AND SEDIMENT CONTROL PLAN

JOB NO.	1569
DATE	7/10/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD2.2

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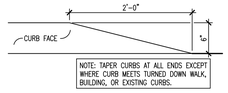
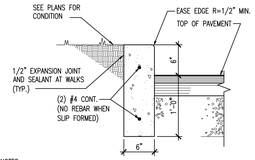


NOTE: TAPER CURBS AT ALL ENDS EXCEPT WHERE CURB MEETS TURNED DOWN WALK, BUILDING, OR EXISTING CURBS.



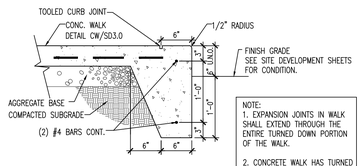
NOTES:

1. TOOLED CONTROL JOINT SHALL BE CONSTRUCTED EVERY 20 FEET MAX. , WHERE CURB ABUTS CONCRETE WALK ALIGN CONTROL JOINT WITH CONTROL JOINT IN WALK.

2. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL BREAKS IN ALIGNMENT, AT CONTACT WITH NEW OR EXISTING CONCRETE, AT ALL DRAINAGE INLETS, AT THE BEGINNING AND ENDING POINTS OF CURVES, AND NOT TO EXCEED 200' MAX. SPACING FOR SLIP FORM APPLICATION AND 30' MAX. SPACING FOR HAND PLACED.

HEADER CURB
1" = 1'-0"

HC



NOTE:
1. EXPANSION JOINTS IN WALK SHALL EXTEND THROUGH THE ENTIRE TURNED DOWN PORTION OF THE WALK.

2. CONCRETE WALK HAS TURNED DOWN EDGE WHEN ADJACENT TO PAVEMENT. U.N.O.

TURNED DOWN CONC. WALK
1" = 1'-0"

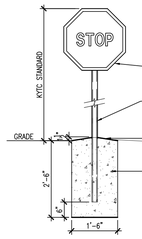
TW

"DO NOT ENTER" SIGN (24"w. x 24"h.) TEXT IN BLACK ON WHITE BACKGROUND W/ BLACK OUTLINE (WITH TAMPER PROOF FASTENERS)

NOTES:
1. ALL SIGNS TO BE HIGH INTENSITY REFLECTIVE, AND ALL GRAPHICS PER KDOT SIGN STANDARDS.

2. SIGNS TO BE LOCATED 4'-0" FROM EDGE OF ROADWAY UNLESS OTHERWISE NOTED ON PLANS.

3. ALL SIGN PANELS SHOWN ON THIS DETAIL ARE TO BE NEW SIGNS.



36"X36" KDOT STANDARD SIGN PANEL (WITH TAMPER PROOF FASTENERS) @ ENTRANCES TO PUBLIC ROADWAY, 24"X24" FOR SITE CIRCULATORY SIGNS.

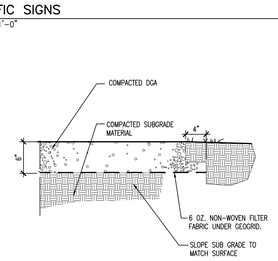
2" X 2" GALVANIZED STEEL POST WITH WATER TIGHT CAP, POWDER COAT BLACK

PROVIDE 1" SLOPE @ EA. PIER

18" DIAM CONCRETE PIER

TRAFFIC SIGNS
1/2" = 1'-0"

TS

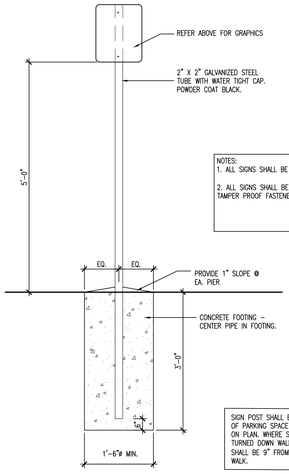


GRAVEL PAVEMENT
1" = 1'-0"

GP

"VAN ACCESSIBLE" SIGN (12"w. x 18"h.) INT'L. SYMBOL IN WHITE ON BLUE BACKGROUND.

"ACCESSIBLE PARKING ONLY" SIGN (12"w. x 18"h.) INT'L. SYMBOL IN WHITE ON BLUE BACKGROUND



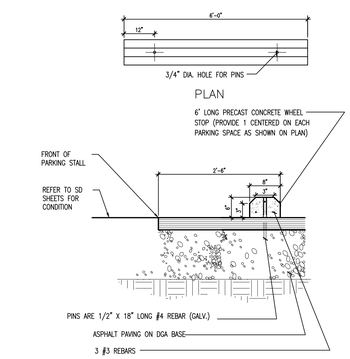
NOTES:
1. ALL SIGNS SHALL BE REFLECTIVE MATERIAL.

2. ALL SIGNS SHALL BE INST225ALLED WITH (2) TAMPER PROOF FASTENERS.

SIGN POST SHALL BE 2'-0" FROM FRONT EDGE OF PARKING SPACE UNLESS OTHERWISE SHOWN ON PLAN. WHERE SIGNS ARE SHOWN IN TURNED DOWN WALK, FRONT EDGE OF SIGN SHALL BE 9" FROM EDGE OF TURNED DOWN WALK.

ACCESSIBLE PARKING SIGNAGE
N.T.S.

AS



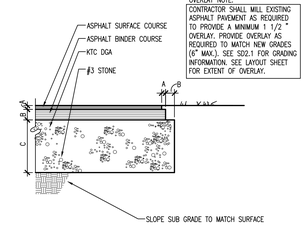
WHEELSTOP
3/4" = 1'-0"

WS

DIM.	ASPHALT
A	1 1/2"
B	3 1/2"
C	10"

FOR ALL UTILITY AND TRENCHING OPERATIONS THAT CROSS PAVEMENT AREA, FILTER FABRIC SHALL BE CUT CLEAN WITH A SHARP KNIFE PRIOR TO ANY TRENCHING OR EXCAVATION. INTENT IS TO MINIMIZE DISTURBANCE TO AND MAINTAIN CONSISTENT PLACEMENT OF FILTER FABRIC INSTALLED UNDER STONE BASE IN PAVEMENT AREAS.

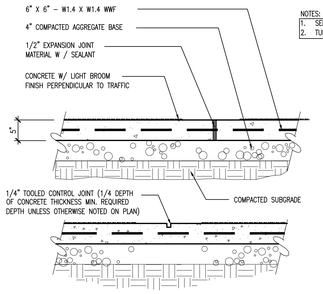
OVERLAY NOTE:
CONTRACTOR SHALL MILL EXISTING ASPHALT PAVEMENT AS REQUIRED TO PROVIDE A MINIMUM 1 1/2 " OVERLAY. PROVIDE OVERLAY AS REQUIRED TO MATCH NEW GRADES (6" MAX.). SEE SD2.1 FOR GRADING INFORMATION. SEE LAYOUT SHEET FOR EXTENT OF OVERLAY.



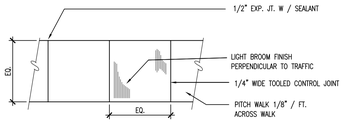
ASPHALT PAVEMENT DESIGN, AS NOTED ABOVE, MAY EXCEED GEOTECHNICAL REPORT MINIMUM RECOMMENDATIONS.

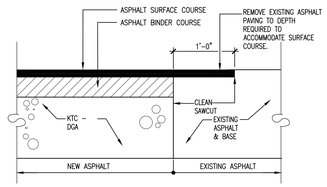
ASPHALT PAVEMENT DETAIL
N.T.S.

AP



NOTES:
1. SEE PLAN FOR CONTROL JOINTS
2. TURN DOWN WALK EDGE WHERE WALK MEETS PAVEMENT (REFER TO DETAIL TW/SD3.1)





EDGE KEY
N.T.S.

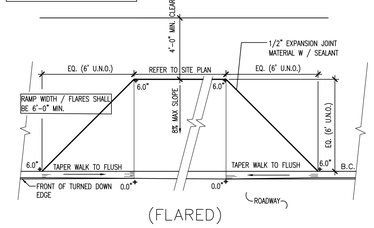
EK

CONCRETE WALK
N.T.S.

CW

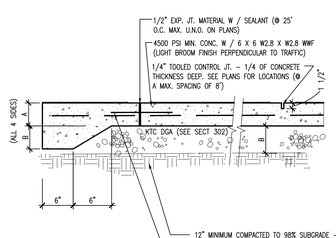
NOTE: SPOT ELEVATIONS ARE THEORETICAL, SHOWN TO DEMONSTRATE ELEVATIONS ALONG RAMP AND CURB.

REFER TO SITE PLAN FOR WHICH CONDITION APPLIES



CURB RAMP DETAIL
N.T.S.

CR



DIM.	
A	6"
B	4"

SEAL EXPANSION AND CONTROL JOINTS PER KTC STANDARD DRAWINGS RPX–020–04 AND RPX–010–03 FOR CONCRETE PAVING.

CONTROL JOINT SPACING IS DIRECTLY RELATED TO THICKNESS OF CONCRETE PER ACI 330.

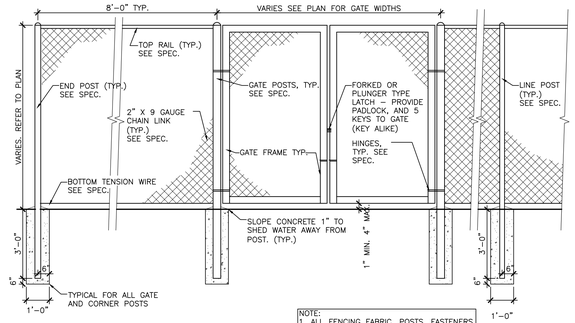
ALL CONCRETE PAVEMENT SHALL MEET OR EXCEED GEOTECHNICAL REPORT MINIMUM RECOMMENDATIONS AS SHOWN ABOVE.

CONCRETE PAVING
N.T.S.

CP

NOTE: PROVIDE VERTICAL PRIVACY SLATS IN LOCATIONS INDICATED ON DRAWINGS.

NOTE: REFER TO PLAN FOR SINGLE OR DOUBLE SWING GATE.



NOTE:
GATE POSTS SHALL BE: 4" DIAMETER SS40 FOR 10' TALL FENCE, 3" DIAMETER SS40 FOR 8' TALL FENCE AND 2–1/2" DIAMETER SS40 FOR 5' TALL FENCE. USE 4" DIAMETER SS40 FOR 8' TALL DOUBLE SWING GATES.
CORNER POSTS SHALL BE 4" DIAMETER SS40 FOR 10' TALL FENCE AND 3' DIAMETER SS40 FOR 5' AND 8' TALL FENCE. LINE POSTS SHALL BE 3" DIAMETER SS40 FOR 10' TALL FENCE, 2–1/2 DIAMETER FOR 5' AND 8' TALL FENCE (8' MAX. SPACING).

NOTE:
1. ALL FENCING FABRIC, POSTS, FASTENERS, FITTINGS AND COMPONENTS TO BE PVC COATED, COLOR SELECTED BY OWNER U.N.O.

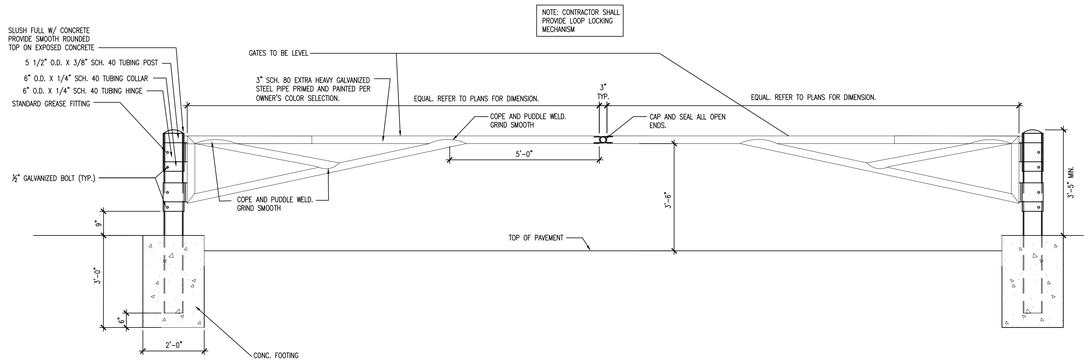
2. SEE SPECIFICATIONS FOR POST SIZING.

3. REINFORCE AND BRACE GATE AS REQUIRED BY CHAINLINK GATE COMPANY TO SPAN REQUIRED OPENING.

CHAINLINK FENCE AND DOUBLE SWING GATE DETAIL
N.T.S.

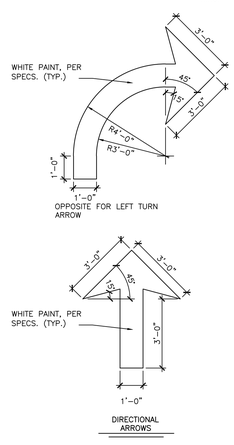
CF

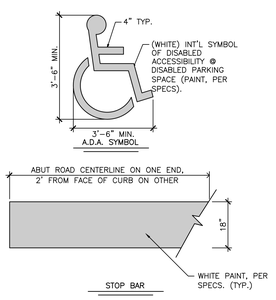
NOTE: CONTRACTOR SHALL PROVIDE LOOP LOCKING MECHANISM

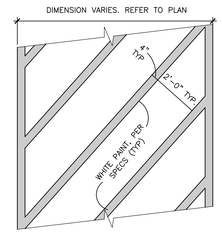


VEHICULAR GATE DETAIL
N.T.S.

VG







PAVEMENT APPLIED GRAPHICS
N.T.S.

PG

FINAL DOCUMENTS

SHERMAN CARTER BARNHART ARCHITECTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE DETAILS

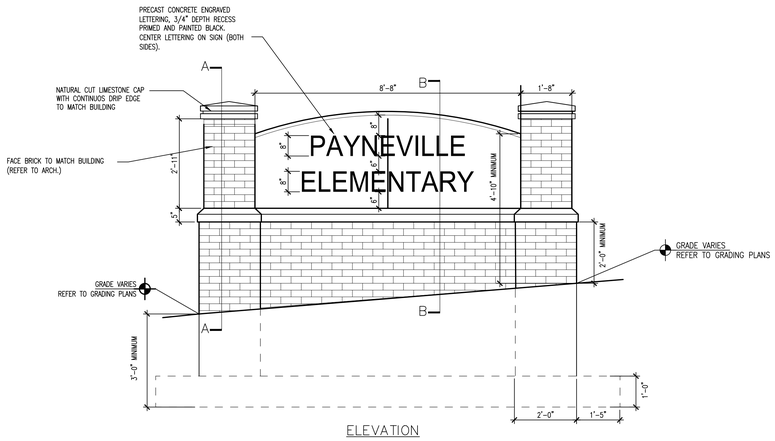
JOB NO.	1569
DATE	7/10/2019
DRAWN	HM
CHECKED	BKL

REVISIONS

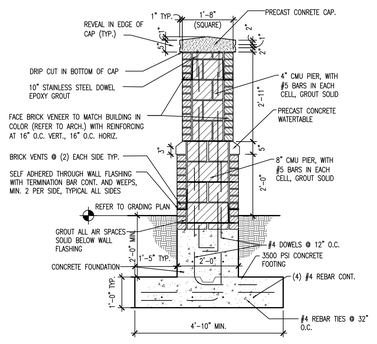
No.	Description	Date

SHEET

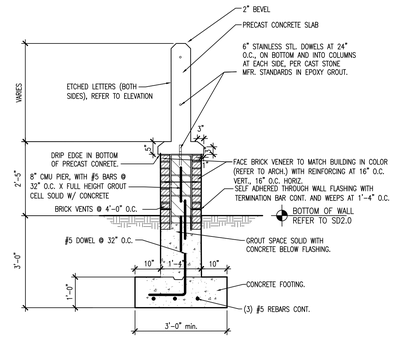
SD3.0



ELEVATION



SECTION A–A



SECTION B–B

MASONRY SIGN
1/2" = 1'-0"

MS

FINAL DOCUMENTS

SHERMAN CARTER BARNHART ARCHITECTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE DETAILS

JOB NO.	1569
DATE	7/10/2019
DRAWN	HM
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD3.1

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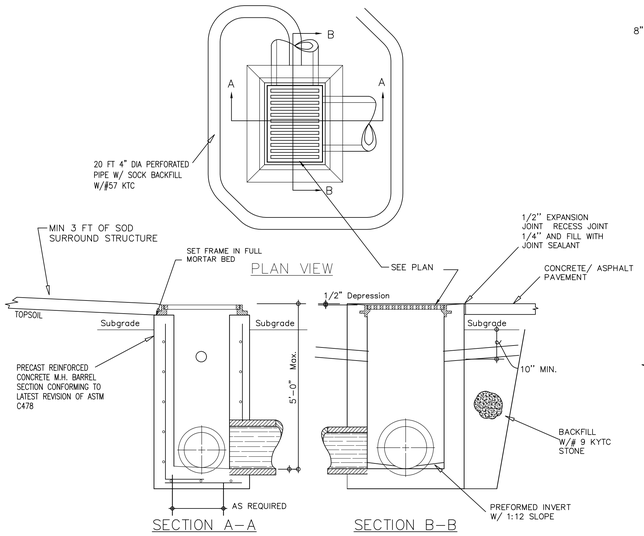
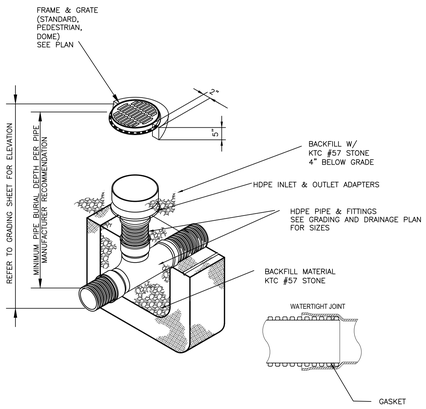
Sheet Layout: SD3.1



DROP INLET

N.T.S. DIMENSIONS AND REINFORCEMENT DESIGN BY PRECAST MANUFACTURER

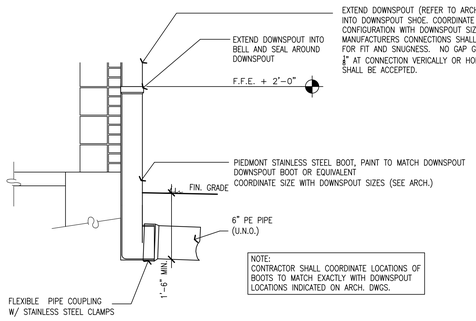
DI



INLINE DRAIN

N.T.S.

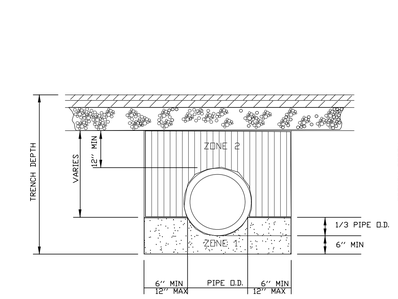
ID



DOWNSPOUT CONNECTION DETAIL

N.T.S.

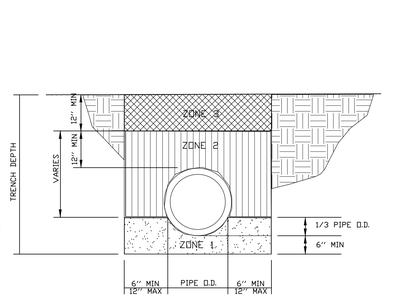
DS



STORM SEWER TRENCH IN PAVED AREAS

ZONE 2 – COMPACTED KTC NO. 9 STONE (FOR PIPING UNDER AND WITHIN 3' OF PAVED AREAS.)

ZONE 1 – PIPE BEDDING MATERIAL, KTC NO. 9 STONE

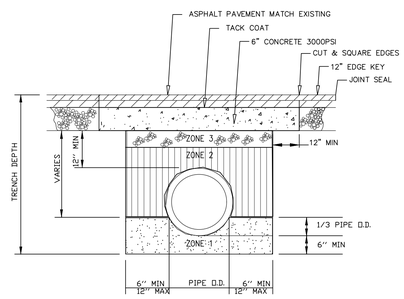


STORM SEWER TRENCH IN NON-PAVED AREAS

ZONE 3 – COMPACTED SOIL BACKFILL (COMPACT SOIL IN 6" LIFTS)

ZONE 2 – COMPACTED SELECT MATERIAL KTC #9 OR EQ.

ZONE 1 – PIPE BEDDING MATERIAL, KTC NO. 9 STONE



STORM INSTALLATION UNDER EXISTING PAVEMENT
PAVEMENT RESTORATION

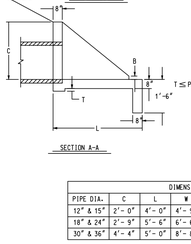
ZONE 3 – 6" MIN COMPACTED DGA

ZONE 2 – COMPACTED KTC NO. 9 STONE (FOR PIPING UNDER AND WITHIN 3' OF PAVED AREAS.)

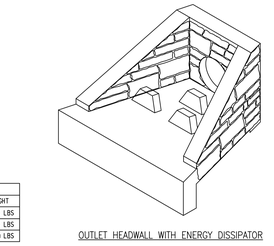
ZONE 1 – PIPE BEDDING MATERIAL, KTC NO. 9 STONE

PIPE BEDDING DETAILS FOR EXTERIOR STORM PIPING ONLY

ST



DIMENSIONS						
PIPE DIA.	C	L	W	E	B	WEIGHT
12" & 15"	2'-0"	4'-0"	4'-9"	2'-9"	0'-3"	3,040 LBS
18" & 24"	2'-9"	5'-6"	6'-6"	3'-6"	0'-3"	5,410 LBS
30" & 36"	4'-4"	5'-0"	8'-8"	3'-8"	1'-6"	8,700 LBS

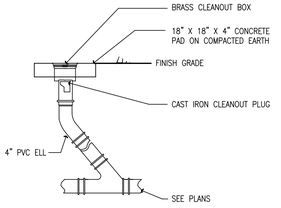


OUTLET HEADWALL WITH ENERGY DISSIPATOR

STANDARD HEADWALL(12"–36")

N.T.S. DIMENSIONS AND REINFORCEMENT DESIGN BY PRECAST MANUFACTURER

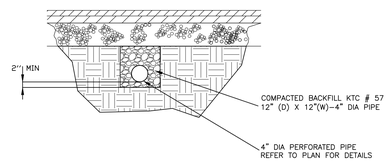
SHW



EXTERIOR CLEANOUT DETAIL

N.T.S.

CO



PAVEMENT UNDERDRAIN DETAIL

N.T.S.

PUD

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

STATE OF KENTUCKY LICENSED PROFESSIONAL ENGINEER MICHAEL KLINGHOFER 19810

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE DETAILS

JOB NO.	1569
DATE	7/10/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

SD4.0

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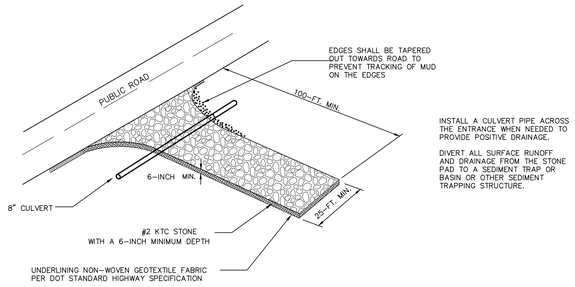


STABILIZED CONSTRUCTION ENTRANCE

WHEN AND WHERE TO USE IT

STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS

IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE. WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY INSPECTOR AS NEEDED. WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

UINSTALLATION:

REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.

DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.

INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

THE ENTRANCE SHALL CONSIST OF #2 KTC STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES, MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.

THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:

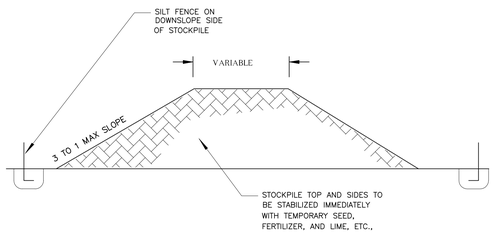
INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.

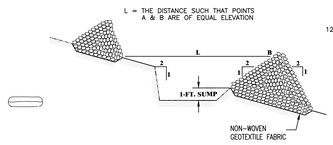
IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.

REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

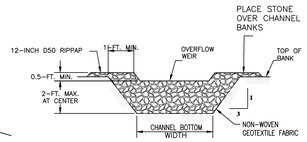
CONSTRUCTION ENTRANCE
N.T.S. — CE



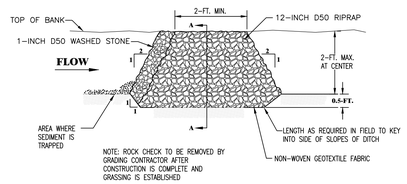
TOPSOIL STOCKPILE
N.T.S. — TSS



SPACING BETWEEN CHECK DAMN



CROSS SECTION A-A



TYPICAL CHECK DAM SECTION

ROCK CHECK DAM

WHEN AND WHERE TO USE IT:

A ROCK CHECK DAM SHOULD BE INSTALLED IN STEEPLY SLOPED SWALES, OR IN SWALES WHERE ADEQUATE VEGETATION CANNOT BE ESTABLISHED. CHECK DAMNS SHOULD BE USED ONLY IN SMALL OPEN CHANNELS. CHECK DAMNS SHOULD NOT BE PLACED IN WATERS OF THE COMMONWEALTH OR USGS BLUE-LINE STREAMS.

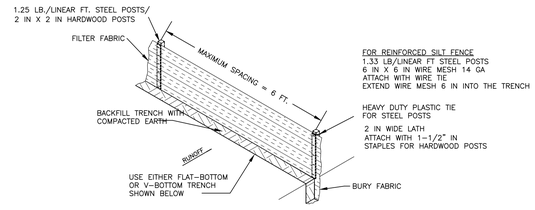
INSTALLATION:

A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE CHECK DAM IS TO BE PLACED.
THE BODY OF THE CHECK DAM SHALL BE COMPOSED OF 12-INCH D50 RIPRAP.
THE UPSTREAM FACE OF THE CHECK DAM MAY BE COMPOSED OF 1-INCH D50 WASHED STONE.
CHECK DAMS SHOULD NOT EXCEED A HEIGHT OF 2-FEET AT THE CENTERLINE OF THE CHANNEL.
CHECK DAMS SHOULD HAVE A MINIMUM TOP FLOW LENGTH OF 2-FEET.
STONE SHOULD BE PLACED OVER THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE CHECK DAM.
THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM DAMN) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO ENSURE THAT THE CENTER OF THE CHECK IS LOWER THAN THE EDGES.
THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM CHECK.

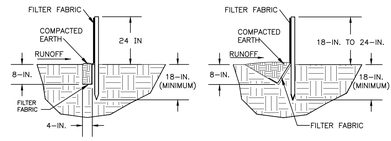
INSPECTION AND MAINTENANCE:

INSPECT ROCK DITCH CHECKS EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION. INSPECT FOR SEDIMENT AND DEBRIS ACCUMULATION. INSPECT CHECK DAM EDGES FOR EROSION AND REPAIR PROMPTLY AS REQUIRED.
SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/3 THE ORIGINAL CHECK HEIGHT.
IN THE CASE OF GRASS-LINED DITCHES AND SWALES, CHECK DAMS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4%.
AFTER CONSTRUCTION IS COMPLETE, ALL STONE SHOULD BE REMOVED BY THE GRADING CONTRACTOR IF VEGETATION WILL BE USED FOR PERMANENT EROSION CONTROL MEASURES.
THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER CHECK DAM REMOVAL.

ROCK CHECK DAM
N.T.S. — CD



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL — V-SHAPED TRENCH DETAIL

SILT FENCE DETAIL

WHEN AND WHERE TO USE It

SILT FENCE IS APPLICABLE IN AREAS:

WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET, WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V, THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.
THE FENCE SHOULD BE PLACED ACROSS THE SLOPE ALONG A LINE OF UNIFORM ELEVATION (PERPENDICULAR TO THE DIRECTION OF FLOW).
THE FENCE SHOULD BE LOCATED AT LEAST 10 -FEET FROM THE TOE OF SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEAN OUT.

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

GEOTEXTILE FILTER FABRIC

FILTER FABRIC IS: COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES. FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES. CUT TO A MINIMUM WIDTH OF 36 INCHES.

INSTALLATION

EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND.

PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD.

PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP.

INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND.

SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1½-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS.

ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN CALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.

INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES.

LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

INSPECTION AND MAINTENANCE

INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.

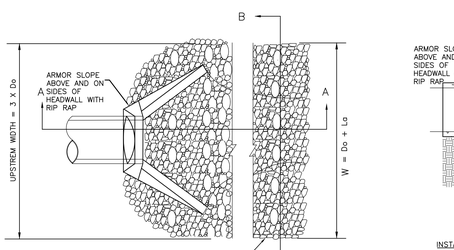
CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY.

CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.

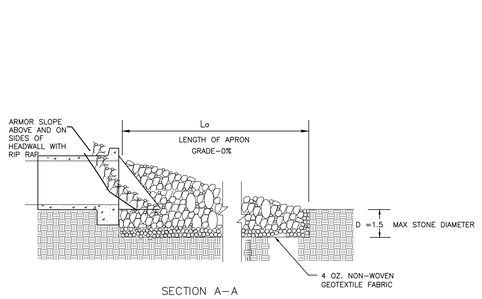
REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.

REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL

REINFORCED SILT FENCE / SILT FENCE
N.T.S. — SF RSF



SECTION B-B



SECTION A-A

INSTALLATION
RIPRAP PLACEMENT SHOULD BE COMPLETED WITHIN A SHORT TIME PERIOD (LESS THAN A WEEK) TO MINIMIZE POTENTIAL DAMAGE RESULTING FROM STORMWATER RUNOFF.

WHEN USED AS SLOPE PROTECTION, RIP RAP SHOULD BE KEYED INTO THE SLOPE TOE BY AT LEAST THE GREATER OF 6 INCHES OR ONE HALF RIPRAP DIAMETER.

RIPRAP SHOULD NOT BE PLACED UNTIL FINAL SUBGRADE ELEVATION HAS BEEN ACHIEVED

GEOTEXTILE SHOULD BE INSTALLED TO MAINTAIN SEPARATION O FROCK MATERIAL FROM THE UNDERLYNG SOIL. GEOTEXTILE SHOULD NOT BE SKETCHED OR OTHERWSE COMPROMISED. SECURE FABRIC WITH ANCHOR TRENCHES, STAKES, STAPLES OR ANY OTHER METHOD RECOMMENDED BY THE MANUFACTURER.

RUBBLE-STONE RIPRAP (PLAIN)

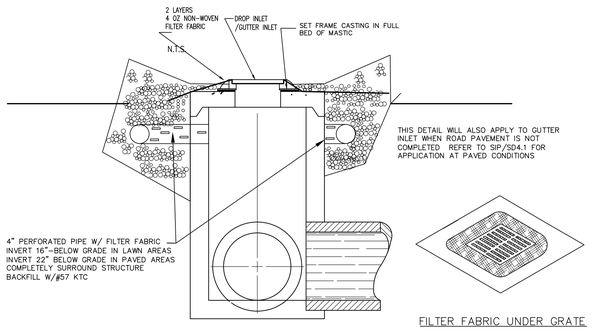
RUBBLE-STONE RIPRAP SHOULD CONSIST OF AT LEAST 90% OF THE STONE NOT LESS THAN 8 INCHES WIDE BY 12 INCHES LONG BY 12 INCHES DEEP AND SHOULD BE APPROXIMATELY RECTANGULAR IN SHAPE. RUBBLE-STONE SHOULD BE HAND PLACED SO THAT THE STONES ARE CLOSE TOGETHER, ARE STAGGERED AT ALL JOINTS AS FAR AS POSSIBLE, AND ARE PLACED SO AS TO REDUCE THE VOIDS TO A MINIMUM. THE MAIN STONE SHOULD BE THOROUGHLY "CHINKED" OR ANCHORED IN PLACE WITH
1 IN. TO 3-IN. STONES BY THROWING THEM OVER THE SURFACE IN ANY MANNER THAT IS PRACTICAL FOR THE SMALLER STONES TO FILL THE VOIDS.

THE STANDARD DEPTH SHOULD BE 24 INCHES. THE AVERAGE DEPTH SHOULD NOT BE LESS THAN CHANNEL LINING SHALL BE ESTIMATED ON THE BASIS OF 1.00 TON PER SQ

WHEN RUBBLE-STONE RIP-RAP IS CONSTRUCTED IN LAYERS, THE LAYERS SHOULD BE THOROUGHLY TIED TOGETHER WITH LARGE STONES PROTRUDING FROM ONE LAYER INTO THE OTHER.

DIMENSIONS					
PIPE Do	LINING DEPTH	La*	UPSTREAM WIDTH	THICKNESS	GRADED RIP-RAP d50 (AVERAGE ROCK DIAMETER)
8"	10"	5-7'	2-3'	6"	3"
12"	16"	8-12'	3-4'	10"	5"
15"	20"	16-18'	4-6'	14"	8"

CULVERT RIPRAP OUTLET PROTECTION
N.T.S. — OP



FILTER FABRIC UNDER GRATE

FILTER FABRIC INLET PROTECTION

USE FILTER FABRIC THAT CONFORMS TO DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

INSTALLATION:

EXCAVATE A TRENCH 6-INCHES WIDE AND 6-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE INLET UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

INSTALL THE FILTER FABRIC TO A MINIMUM HEIGHT OF 24-INCHES ABOVE GRADE. SPACE THE POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3-FEET APART AND DRIVE THEM INTO THE GROUND A MINIMUM OF 24-INCHES.

CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, WRAP FILTER FABRIC TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.

EXTEND THE FILTER FABRIC A MINIMUM OF 12-INCHES INTO THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR CRUSHED STONE AND COMPACT OVER THE FILTER FABRIC UNLESS THE FABRIC IS PNEUMATICALLY INSTALLED.

ATTACH FABRIC TO STEEL POSTS WITH HEAVY-DUTY PLASTIC TIES. ATTACH AT LEAST FOUR (4) EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, AFFIX TIES IN NO LESS THAN FOUR (4) PLACES.

INSPECTION AND MAINTENANCE:

INSPECTIONS SHOULD BE MADE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES ½-INCHES OR MORE OF RAIN. IF THE FABRIC BECOMES CLOGGED, IT SHOULD BE REPLACED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE.

TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE.MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.

STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.

FABRIC INLET PROTECTION
N.T.S. — FIP

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

STATE OF KENTUCKY * MICHAEL G. SCHAFFNER 19810 LICENSED * PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SITE DETAILS

JOB NO.	1569
DATE	7/10/2019
DRAWN	MB
CHECKED	BKL

REVISIONS

No.	Description	Date

SHEET

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NOTES:

1. CONSTRUCT 4" DIAMETER PRECAST MANHOLE OVER EXISTING 6" SANITARY SEWER. SEWAGE SHALL CONTINUE TO FLOW TO THE EXISTING SEPTIC SYSTEM UNTIL THE NEW SYSTEM IS OPERATIONAL. ONCE THE NEW SYSTEM IS OPERATIONAL, RE-CONSTRUCT MANHOLE INVERT TO DIRECT SEWAGE TO THE NEW SYSTEM. GROUT PIPE TO EXISTING SYSTEM FLUSH WITH WALL. SAFELOAD EXISTING SEWER WITH GROUT FROM THIS MANHOLE TO THE EXISTING SEPTIC TANK. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING 6" SEWER AND THE POINT OF CONNECTION OF THE 4" SEWER PRIOR TO STARTING THIS ASPECT OF WORK.

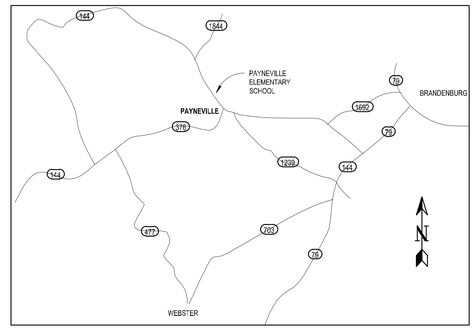
2. SEPTIC TANKS SHALL BE 2,000 GALLON PRECAST TANKS MEETING THE REQUIREMENTS OF THE KENTUCKY BOARD OF HEALTH. TANKS SHALL BE MODEL KY-C20-0160-T AS MANUFACTURED BY S & M PRECAST, INC., 812-246-6258 OR EQUAL. SEE SHEET C2.0 FOR ADDITIONAL DETAILS.

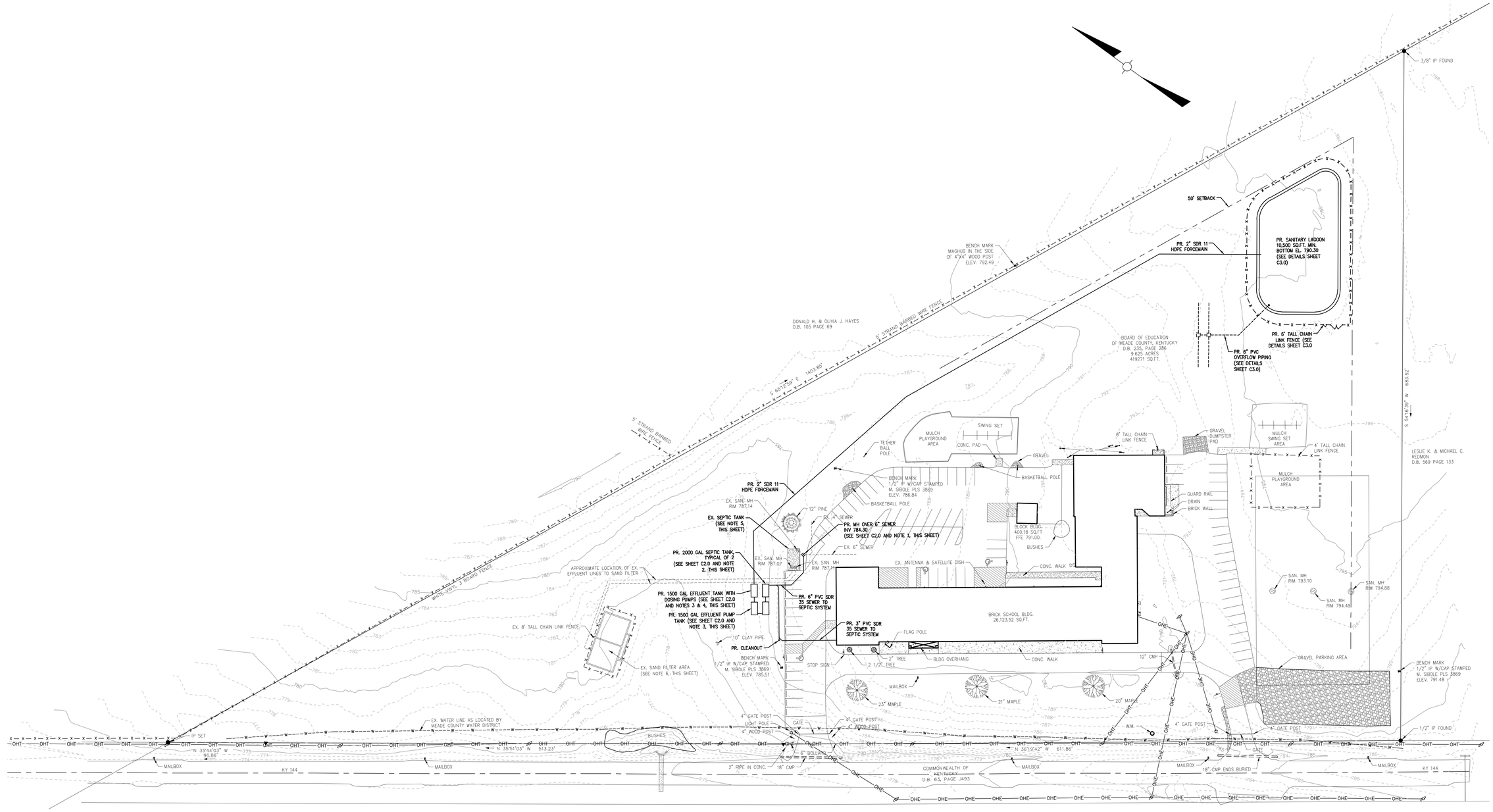
3. EFFLUENT DOSING TANKS SHALL BE 1,500 GALLON PRECAST TANKS MEETING THE REQUIREMENTS OF THE KENTUCKY BOARD OF HEALTH. TANKS SHALL BE MODEL KY-C15-0160 AS MANUFACTURED BY S & M PRECAST, INC., 812-246-6258 OR EQUAL. SEE SHEET C2.0 FOR ADDITIONAL DETAILS.

4. EFFLUENT DOSING PUMPS (TWO (2) EFFLUENT DOSING PUMPS SHALL BE FURNISHED AND INSTALLED) SHALL BE MODEL 6161 AS MANUFACTURED BY ZOLLER PUMP COMPANY OR EQUAL. PUMPS SHALL BE RATED AT 34 GPM AT 44 FEET TOTAL DYNAMIC HEAD. SEE SHEET C2.0 FOR ADDITIONAL DETAILS.

5. ONCE THE NEW SEPTIC SYSTEM IS OPERATIONAL, THE CONTRACTOR SHALL REMOVE ALL SEWAGE AND SOLIDS FROM THE EXISTING SEPTIC TANK AND DISPOSE OF IT IN ACCORDANCE WITH REQUIREMENTS OF THE KENTUCKY BOARD OF HEALTH AND THE DIVISION OF WATER. THE CONCRETE SEPTIC TANK SHALL BE REMOVED TO A POINT 3'-0" BELOW GRADE. THE BOTTOM OF THE TANK SHALL BE BROKEN UP INTO PIECES NO LARGER THAN 2 SQUARE FEET TO ALLOW FOR DRAINAGE. THE SITE SHALL BE BACKFILLED WITH A MINIMUM OF 1'-0" OF TOP SOIL, GRADED, AND SEEDED.

6. ONCE THE NEW SEPTIC SYSTEM IS OPERATIONAL, THE CONTRACTOR SHALL REMOVE THE SAND FILTER SYSTEM. ALL CONCRETE SHALL BE REMOVED TO A POINT 3'-0" BELOW EXISTING GRADE. THE EXISTING FILTER SAND SHALL BE REMOVED TO A POINT 2'-0" BELOW EXISTING GRADE AND DISPOSED OF IN ACCORDANCE WITH KENTUCKY BOARD OF HEALTH AND DIVISION OF WATER REQUIREMENTS. THE FENCE MATERIAL, POSTS, GATES, AND CONCRETE ANCHORS SHALL BE REMOVED. THE SITE SHALL BE BACKFILLED WITH TOP SOIL (12" MIN.), GRADED, AND SEEDED.





UTILITY NOTE:

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The New Look For Digging Safely in Kentucky
Kentucky 811
Call 811 Before You Dig

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 INCH = 40 FEET

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Day & Time Jul 22, 2019 - 1:16pm
Login Name: sbailey
Sheet Layout: C1.0

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STATE OF KENTUCKY
DAVID R. EBERENZ
18598
LICENSED PROFESSIONAL ENGINEER
7/10/19

SHERMAN CARTER BARNHART ARCHITECTS

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Jeffersonville, IN 47130
(812) 280-8301
(812) 280-8281 Fax

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SANITARY SITE PLAN

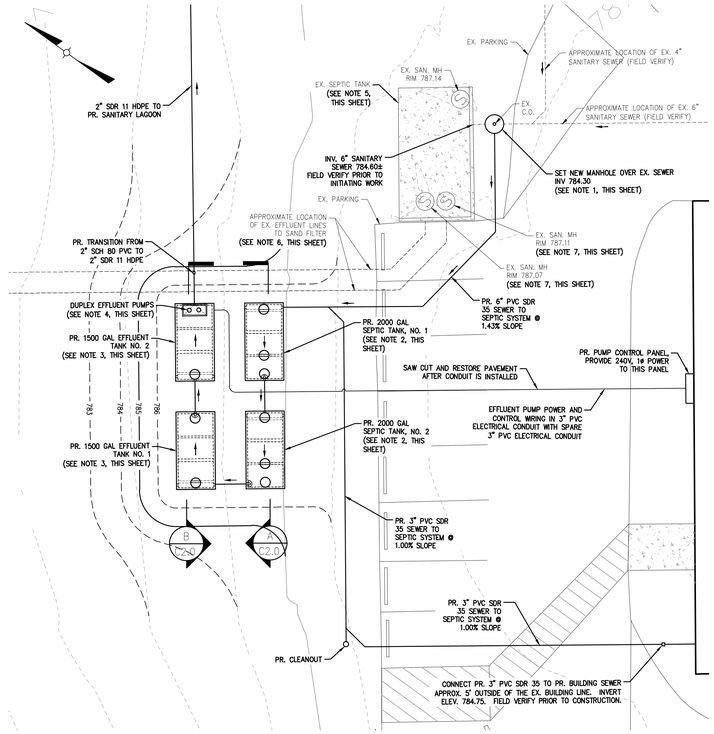
JOB NO.	1569
DATE	07/10/2019
DRAWN	SLB
CHECKED	DRE

REVISIONS

No.	Description	Date

SHEET

C1.0



PLAN

SCALE: 1"=10'

NOTES:

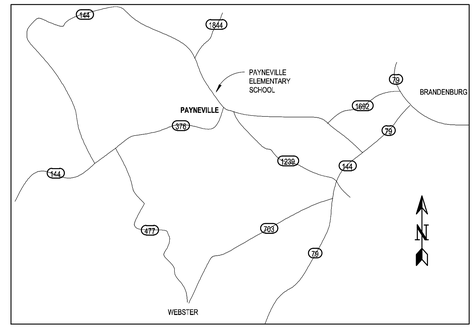
1. CONSTRUCT 4" DIAMETER PRECAST MANHOLE OVER EXISTING 6" SANITARY SEWER. SEWAGE SHALL CONTINUE TO FLOW TO THE EXISTING SEPTIC SYSTEM UNTIL THE NEW SYSTEM IS OPERATIONAL. ONCE THE NEW SYSTEM IS OPERATIONAL, RE-CONSTRUCT MANHOLE INVERT TO DIRECT SEWAGE TO THE NEW SYSTEM. GROUT PIPE TO EXISTING SYSTEM FLUSH WITH WALL. SAFELOAD EXISTING SEWER WITH GROUT FROM THIS MANHOLE TO THE EXISTING SEPTIC TANK. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING 6" SEWER AND THE POINT OF CONNECTION OF THE 4" SEWER PRIOR TO STARTING THIS ASPECT OF THE WORK.
2. SEPTIC TANKS SHALL BE 2,000 GALLON PRECAST TANKS MEETING THE REQUIREMENTS OF THE KENTUCKY BOARD OF HEALTH. TANKS SHALL BE MODEL KY-C20-0160-T AS MANUFACTURED BY S & M PRECAST, INC., 812-246-6258 OR EQUAL.
3. EFFLUENT DOSING TANKS SHALL BE 1,500 GALLON PRECAST TANKS MEETING THE REQUIREMENTS OF THE KENTUCKY BOARD OF HEALTH. TANKS SHALL BE MODEL KY-C15-0160 AS MANUFACTURED BY S & M PRECAST, INC., 812-246-6258 OR EQUAL.
4. EFFLUENT DOSING PUMPS (TWO (2) EFFLUENT DOSING PUMPS SHALL BE FURNISHED AND INSTALLED) SHALL BE MODEL 6161 AS MANUFACTURED BY ZOLLER PUMP COMPANY OR EQUAL. PUMPS SHALL BE RATED AT 34 GPM AT 44 FEET TOTAL DYNAMIC HEAD.
5. ONCE THE NEW SEPTIC SYSTEM IS OPERATIONAL, THE CONTRACTOR SHALL REMOVE ALL SEWAGE AND SOLIDS FROM THE EXISTING SEPTIC TANK AND DISPOSE OF IT IN ACCORDANCE WITH REQUIREMENTS OF THE KENTUCKY BOARD OF HEALTH AND THE DIVISION OF WATER. THE CONCRETE SEPTIC TANK SHALL BE REMOVED TO A POINT 3'-0" BELOW GRADE. THE BOTTOM OF THE TANK SHALL BE BROKEN UP INTO PIECES NO LARGER THAN 2 SQUARE FEET TO ALLOW FOR DRAINAGE. THE SITE SHALL BE BACKFILLED WITH A MINIMUM OF 1'-0" OF TOP SOIL, GRADED, AND SEEDED.
6. VERIFY LOCATION OF EXISTING SEPTIC TANK EFFLUENT LINES PRIOR TO STARTING THIS ASPECT OF THE WORK.
7. ABANDON EXISTING EFFLUENT PUMP AND POWER SUPPLY.

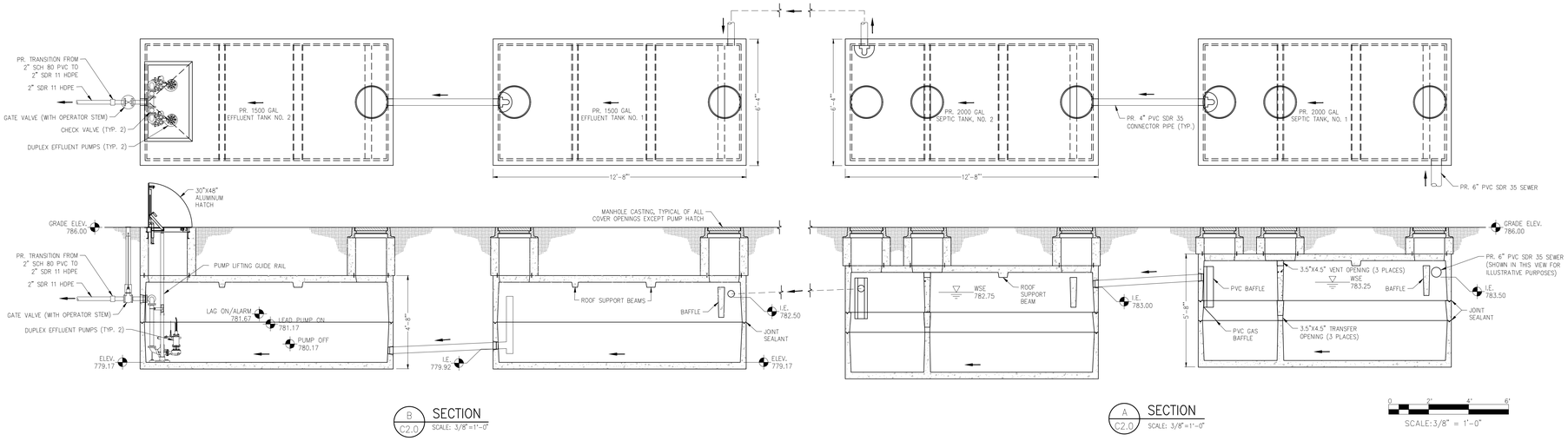
GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 INCH = 10 FEET





B C2.0 SECTION

SCALE: 3/8"=1'-0"

A C2.0 SECTION

SCALE: 3/8"=1'-0"

0 2' 4' 6'

SCALE: 3/8" = 1'-0"

UTILITY NOTE:

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(812) 280-8281 Fax

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

SEPTIC SYSTEM PLAN AND SECTIONS

JOB NO.	1569
DATE	07/10/2019
DRAWN	SLB
CHECKED	DRE

REVISIONS

No.	Description	Date

SHEET

C2.0

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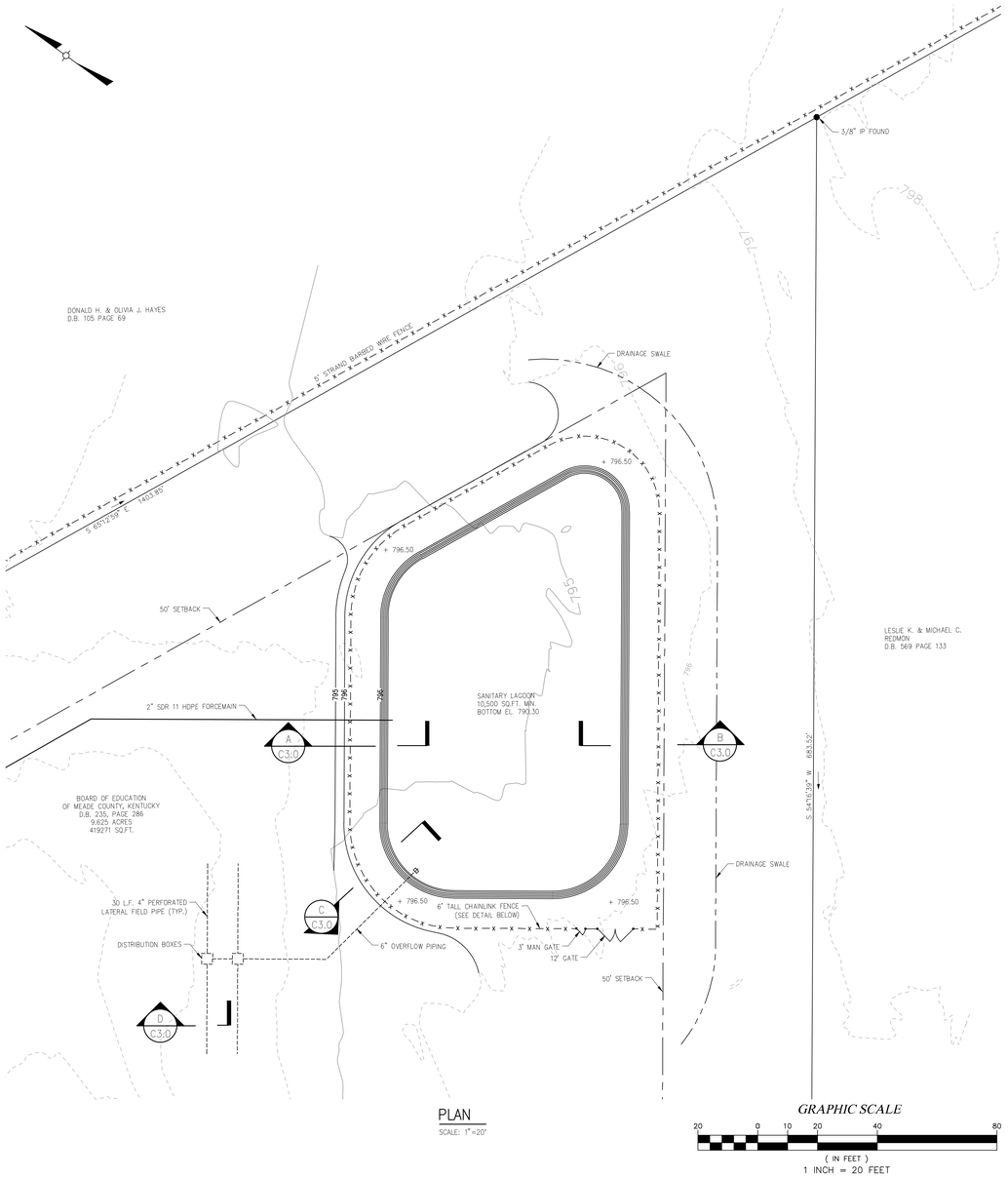

PLAN

SCALE: 1"=20'

GRAPHIC SCALE

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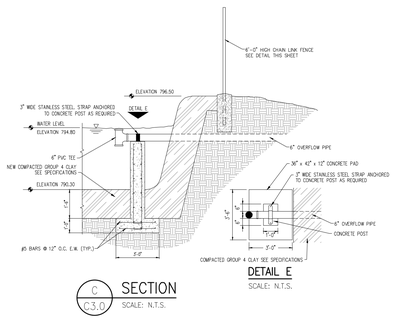
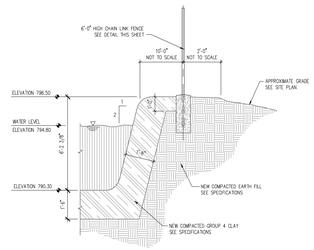
(IN FEET)

1 INCH = 20 FEET



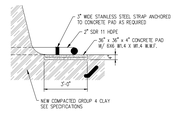
C C3.0 SECTION

SCALE: N.T.S.



B C3.0 SECTION

SCALE: N.T.S.



A C3.0 SECTION

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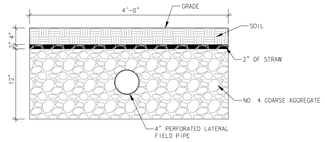

D C3.0 SECTION

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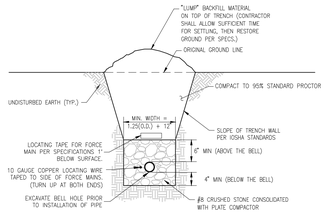
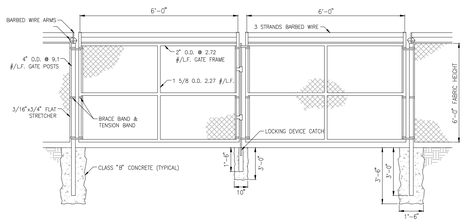


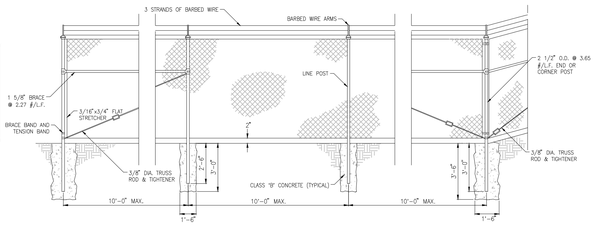
FORCEMAIN BACKFILL DETAIL

SCALE: N.T.S.



VEHICULAR ENTRANCE GATE DETAIL

SCALE: N.T.S.



CHAIN LINK FENCE DETAIL

SCALE: N.T.S.

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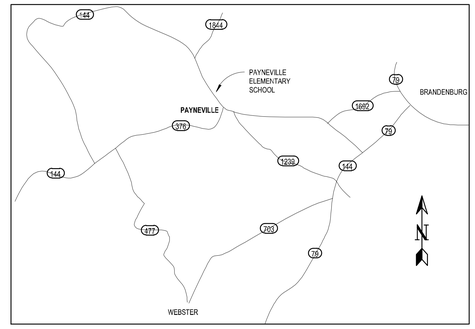

GRADING NOTES

1) TOPSOIL IS TO BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".

2) ALL GRADED AREAS INCLUDING SLOPES ARE TO BE MULCHED AND SEEDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED. CONSTRUCT SILT BARRIERS AS DETAILED IN THE EPSC PRIOR TO BEGINNING GRADING OPERATIONS.

3) ALL DIMENSIONS AND LOCATIONS OF TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE OWNER'S REPRESENTATIVE.

4) REPLACE SILT BARRIERS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

5) THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

6) THE CONTRACTOR SHALL CHECK ALL FINISHED GRADES, EXISTING GRADES AND DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.

7) THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION.

8) LAGOON AND ALL ASSOCIATED PIPING SHALL BE CONSTRUCTED BY AN INSTALLER CERTIFIED BY THE STATE OF KENTUCKY. ALL WORK ASSOCIATED WITH THE SEPTIC SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF 902 KAR 10:085 LATEST VERSION. THE CERTIFIED INSTALLER SHALL BE RESPONSIBLE FOR THE PERMIT FEE ASSOCIATED WITH THIS CONSTRUCTION.

9) BASED ON SOILS INVESTIGATION CONDUCTED TO DATE THERE IS NOT SUFFICIENT GROUP IV SOIL ON SITE TO CONSTRUCT THE PROPOSED LAGOON. EXCESS EXCAVATED MATERIALS MAY BE DISPOSED OF ON SITE, HAULED OFF SITE, AND/OR USED AS FILL ON THIS PROJECT, PROVIDED THEY MEET PROJECT REQUIREMENTS.

EPSC NOTES

1) THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EPSC PLAN MUST BE REVIEWED AND APPROVED BY LOCAL GOVERNING AGENCY'S DEVELOPMENT REVIEW OFFICE. EPSC BMP'S SHALL BE INSTALLED PER THE PLAN AND MSD STANDARDS.

2) ACTIONS SHALL BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

3) SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

4) WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICAL, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.

5) SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, OR CATCH BASIN.

6) CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EDGE OF EXISTING PAVEMENT. CONTRACTOR SHALL WASH DOWN TRACKS AS NECESSARY IN EXISTING PAVED AREA.

SHERMAN CARTER BARNHART ARCHITECTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

LAGOON SYSTEM PLAN, SECTIONS, AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	SLB
CHECKED	DRE

REVISIONS

No.	Description	Date

SHEET

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Day & Time: Jul 10, 2019 - 3:56pm
Login Name: sbailey
Sheet Layout: C3.0

1. GENERAL:

A. THESE GENERAL NOTES PRESENT AND / OR SUMMARIZE KEY PROJECT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE ALSO INDIVIDUAL SHEET NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL REFERENCES TO CODES AND STANDARDS CONTAINED WITHIN THE CONTRACT DOCUMENTS ARE TO THE MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS OR ON THE PLANS.

C. THESE DRAWINGS REPRESENT STRUCTURAL COMPONENTS OF THIS BUILDING IN THEIR FINAL AND COMPLETED STATE. CONSTRUCTION PROCEDURES, METHODS and MEANS (INCLUDING, BUT NOT LIMITED TO, TEMPORARY SHORING AND BRACING), SAFETY PRECAUTIONS AND / OR MECHANICAL REQUIREMENTS TO ERECT THE ELEMENTS OF THIS BUILDING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND / OR SUB-CONTRACTORS DOING THE WORK. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR COMPLYING WITH OSHA REGULATIONS.

D. THIS PROJECT INVOLVES RENOVATION AND ADDITIONS TO AN EXISTING FACILITY. THERE MAY BE UNDERGROUND UTLITIES PRESENT WITHIN THE FOOTPRINT OF THIS BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, IDENTIFY, AND PROTECT ALL EXISTING UNDERGROUND UTILITIES FROM DAMAGE DURING CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE DONE TO THE EXISTING FACILITIES OR EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST.

E. THE USE OF REPRODUCTIONS OF THE STRUCTURAL DRAWINGS BY THE CONTRACTOR OR ANY SUB-CONTRACTOR, DETAILER, FABRICATOR, ERECTOR, MATERIAL SUPPLIER, ET. AL. IN LIEU OF OR TO FACILITATE THE PREPARATION OF SHOP OR ERECTION DRAWINGS WILL NOT BE PERMITTED. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR.

F. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES, CONFLICTING INFORMATION AND / OR OMISSIONS ARE DISCOVERED. THE CONTRACTOR SHALL AWAIT CLARIFICATION / RESOLUTION OF SUCH CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.

G. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE ARCHITECT IMMEDIATELY ANY DISCREPANCIES, CONFLICTING INFORMATION AND / OR OMISSIONS ARE DISCOVERED. THE CONTRACTOR SHALL AWAIT CLARIFICATION / RESOLUTION OF SUCH CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.

H. THE CONTRACTOR SHALL CHECK AND APPROVE ALL SHOP DRAWINGS AND MATERIAL SUBMITTALS PRIOR TO SUBMITTING SAME TO THE ARCHITECT FOR REVIEW. FAILURE TO COMPLETELY CHECK THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROBLEMS THAT MAY ARISE FROM COORDINATION, DETAILING, FABRICATION, AND / OR ERECTION ERRORS. DELAYS IN THE PROJECT RESULTING FROM THE REJECTION OF INCOMPLETE OR INADEQUATE SUBMITTALS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

J. THE CONTRACTOR SHALL COORDINATE THE SUPPORT REQUIREMENTS FOR MECHANICAL EQUIPMENT, PARTITIONS, AND OTHER SUCH ITEMS AND VERIFY THAT THE MISCELLANEOUS FRAMING SHOWN ON STRUCTURAL DRAWINGS TO SUPPORT THOSE ITEMS IS CONSISTENT WITH THE MANUFACTURER'S REQUIREMENTS.

K. PROPRIETARY PRODUCTS OF INDIVIDUAL MANUFACTURERS AND / OR TRADEMARKED PRODUCTS ARE SPECIFIED HEREIN ON AS THE "BASIS OF DESIGN". SUBJECT TO THE SUBSTITUTION PROVISIONS OUTLINED IN THE SPECIFICATIONS , MANUFACTURER'S DATA ON ALTERNATE PRODUCTS OF A QUALITY EQUAL TO OR BETTER THAN THOSE SPECIFIED MAY BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. UPON APPROVAL OF ARCHITECT, THESE ALTERNATE PRODUCTS MAY BE USED IN LIEU OF THE SPECIFIED PRODUCT.

L. ABBREVIATIONS:

"ACI"	REFERS TO THE "AMERICAN CONCRETE INSTITUTE"
"AISC"	REFERS TO THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION"
"SJI"	REFERS TO THE "STEEL JOIST INSTITUTE"
"SDI"	REFERS TO THE "STEEL DECK INSTITUTE"
"ASTM"	REFERS TO THE "AMERICAN SOCIETY FOR TESTING AND MATERIALS"
"AWS"	REFERS TO THE "AMERICAN WELDING SOCIETY"
"V.I.F."	DENOTES A DIMENSION OR CONDITION THAT MUST BE "VERIFIED IN THE FIELD"
"U.N.O."	MEANS "UNLESS NOTED OTHERWISE"
"TYP."	THIS NOTATION ON SECTIONS, DIMENSIONS AND DETAILS INDICATES THAT THE IDENTIFIED CONTITION IS "TYPICAL" AT SEVERAL LOCATIONS.
"SIM."	THIS NOTATION ON SECTIONS & DETAILS INDICATES THAT THE IDENTIFIED CONDITION IS "SIMILAR" TO THE REFERENCED SECTION OR DETAIL.
"N.S. & F.S."	MEANS "NEAR SIDE AND FAR SIDE"
"E.W."	MEANS "EACH WAY"
"EL." or "ELEV."	MEANS "ELEVATION"
"T.O.S. ELEV."	DENOTES "TOP OF STEEL ELEVATION"
"T/STL. ELEV."	DENOTES "TOP OF STEEL ELEVATION"
"T/SLAB"	DENOTES "TOP OF SLAB"
"T/C ELEV."	DENOTES "TOP OF CONCRETE ELEVATION"
"T/CONC. ELEV."	DENOTES "TOP OF CONCRETE ELEVATION"
"B/FTG. ELEV."	DENOTES "BOTTOM OF FOOTING ELEVATION"
"SEE ARCH."	DENOTES A DIMENSION OR CONDITION THAT IS CLARIFIED ON THE ARCHITECTURAL DRAWINGS
"CENTERS" or "CTRS."	DENOTES A "CENTER TO CENTER" DIMENSION
"C.J."	DENOTES A "CONTROL JOINT" OR A "CONSTRUCTION JOINT" IN THE CONCRETE SLAB OR FOUNDATION WALLS – SEE SECTIONS AND DETAILS ON SHEET S2.0 FOR ADDITIONAL INFORMATION
"R.C.J."	DENOTES A "REQUIRED CONSTRUCTION JOINT"
"WWF"	DENOTES "WELDED WIRE FABRIC" CONCRETE SLAB REINFORCING
"WWR"	DENOTES "WELDED WIRE REINFORCEMENT" CONCRETE SLAB REINFORCING
"TCX"	DENOTES A STEEL BAR JOIST "TOP CHORD EXTENSION"
"J.B.E." or "JBE"	DENOTES "JOIST BEARING ELEVATION"
"T.B.E." or "TBE"	DENOTES "TRUSS BEARING ELEVATION"
"DIA." or "ø"	MEANS "DIAMETER"
"L.F."	MEANS "LINEAR FEET"
"Thk."	MEANS "THICK" or "THICKNESS"
"Sq."	MEANS "SQUARE"
"Lg."	MEANS "LONG" or "LENGTH"
"STD. ACI HOOK"	DENOTES A "STANDARD ACI HOOK" IN REINFORCING STEEL, BENT TO THE ANGLE SPECIFIEC, THAT IS DETAILED AND FABRICATED IN ACCORDANCE WITH THE APPLICABLE ACI SPECIFICATIONS
"CMU" or "C.M.U."	MEANS "CONCRETE MASONRY UNIT"
"XX FS"	DENOTES A "FOOTING STEP", "XX" INCHES DEEP
"INT."	MEANS "INTERIOR"
"EXT."	MEANS "EXTERIOR"
"E.F."	MEANS "EACH FACE"
"N.F."	MEANS "NEAR FACE"
"F.F."	MEANS "FAR FACE"
"I.F."	MEANS "INSIDE FACE"
"O.F."	MEANS "OUTSIDE FACE"
"LW"	DENOTES "LIGHTWEIGHT CONCRETE"
"NW"	DENOTES "NORMAL WEIGHT CONCRETE"
"N.I.C."	MEANS "NOT IN CONTRACT"
"B" or "Bott."	MEANS "BOTTOM"
"T"	MEANS "TOP"
"RE:"	MEANS "REFER TO" THE SECTION OR DETAIL LISTED FOR ADDITIONAL INFORMATION. – e.g. "RE: A/S2.2" MEANS "REFER TO SECTION / DETAIL A ON SHEET S2.2 FOR ADDITIONAL INFORMATION"

M. SPECIAL IDENTIFICATION: ★ INDICATES CONTRACT AND CONSTRUCTION REQUIREMENTS THAT, IN THE EXPERIENCE OF THE DESIGNER, ARE (1) ESPECIALLY CRITICAL TO SAFE OR SATISFACTORY PERFORMANCE; ARE (2) FREQUENTLY NOT GIVEN ADEQUATE CONSTRUCTION QUALITY CONTROL BY THE CONTRACTOR OR SUB-CONTRACTORS; OR, ARE (3) ARE NOT "STANDARD" OR COMMON CONSTRUCTION REQUIREMENTS AND THEREFORE MAY BE SUBJECT TO CONTRACTOR OVERSIGHT IN COSTING AND / OR CONSTRUCTION.

2. DESIGN CRITERIA:

A. THE APPLICABLE BUILDING CODE FOR THIS PROJECT IS THE KENTUCKY BUILDING CODE (KBC), CURRENT EDITION (2018). LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH ASCE 7-10.

B. PROJECT LOCATION:

LOUISVILLE, MEADE COUNTY, KENTUCKY
LATITUDE: 37.996100° N
LONGITUDE: 86.318856° W

C. RISK CATEGORY = III (SCHOOL) – RE: ASCE 7-10, TABLE 1.5-1

D. SUPERIMPOSED DESIGN LOADS:

1. GRAVITY LOADS:
DEAD LOADS:
ROOF DEAD LOAD = 30 psf
LIVE LOADS:
ROOF LIVE LOAD = 20 psf
FLOOR LIVE LOADS – SCHOOLS
CLASSROOMS = 40 psf
OFFICES = 50 psf
CORRIDORS @ FIRST FLOOR = 100 psf
ASSEMBLY AREAS = 100 psf
STORAGE = 125 psf
LOBBIES = 100 psf
MECHANICAL ROOMS = 125 psf

2. WIND LOAD CRITERIA:
BASIC WIND SPEED, V (3-sec GUST) = 120 mph (ULTIMATE)
EXPOSURE CATEGORY = C
MEAN ROOF HEIGHT, h = 25.0 feet

HEIGHT and EXPOSURE
ADJUSTMENT COEFFICIENT = 1.35

COMPONENTS & CLADDING DESIGN WIND PRESSURE:

ROOF MEMBERS (NEGATIVE INDICATES UPLIFT):
ZONE 1 = -32.0 psf
ZONE 2 = -37.9 psf
ZONE 3 = -46.7 psf
WALL MEMBERS:
ZONE 4 = -29.2 psf
ZONE 5 = -34.3 psf

3. SEISMIC DESIGN CRITERA:
SPECTRAL RESPONSE ACCELERATION –
@ SHORT PERIODS, Ss = 0.270g (USGS Maps)
@ 1-sec PERIODS, S1 = 0.126g (USGS Maps)

RISK CATEGORY = III (SCHOOL)
SEISMIC IMPORTANCE FACTOR, IE = 1.25
SEISMIC DESIGN CATEGORY, = B
SITE SEISMIC CLASSIFICATION (PER GEOTECHNICAL REPORT) = B
DESIGN SPECTRAL RESPONSE ACCELERATION –
@ SHORT PERIODS, SDS = 0.180g
@ 1-sec. PERIODS, SD1 = 0.084g

ANALYSIS METHOD: EQUIVALENT LATERAL FORCE METHOD (ELFM)
BASIC SEISMIC FORCE RESISTING SYSTEM CRITERIA:
INTERMEDIATE REINFORCED CONCRETE MASONRY SHEAR WALLS

RESPONSE MODIFICATION FACTOR, R = 3.5
DEFLECTION AMPLIFICATION FACTOR, Cd = 2.25
SYSTEM OVERSTRENGTH FACTOR, o = 2.5
APPROXIMATE FUNDAMENTAL PERIOD, Ta = 0.256 sec

DESIGN BASE SHEAR:
SEISMIC RESPONSE COEFFICIENT, Cs = 0.064286
TOTAL BASE SHEAR (ULTIMATE STATE) = 80 kips
TOTAL BASE SHEAR (ALLOWABLE STRESS) = 56 kips

4. SNOW LOAD CRITERIA:
GROUND SNOW LOAD = 15 psf
SNOW IMPORTANCE FACTOR, Is = 1.1
THERMAL FACTOR, Ct = 1.0
SNOW EXPOSURE FACTOR, Ce = 1.1
SNOWDRIFTS ACCOUNTED FOR IN ACCORDANCE WITH ASCE 7-10.

E. FOUNDATIONS:
1. FOUNDATION AND CONCRETE FLOOR SLAB ON GRADE DESIGNS AS WELL AS OTHER ASPECTS OF EARTHWORK AND SITE WORK FOR THIS PROJECT HAVE BEEN BASED ON GEOTECHNICAL REPORT NUMBER 218-487 PREPARED FOR THIS PROJECT BY AMERICAN ENGINEERS, INC. AND DATED MARCH 28 2019. A COPY OF THIS REPORT IS AVAILABLE FROM THE ARCHITECT FOR CONTRACTOR'S USE. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND BECOME FAMILIAR WITH AND FOLLOW ALL INFORMATION AND RECOMMENDATIONS SET FORTH THEREIN. THE CONTRACTOR MUST UNDERSTAND THAT THE ACCURACY OF THE REPORT IS LIMITED TO THOSE AREAS SPECIFICALLY ADDRESSED. ALL INFORMATION AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. SEE EARTHWORK, SLABS ON GRADE AND FOUNDATIONS NOTES BELOW FOR MORE INFORMATION.

2. FOUNDATION DESIGN CRITERIA:
FOUNDATION SYSTEM – SHALLOW SPREAD FOOTINGS BEARING ON COMPETENT ROCK (SANDSTONE) OR ON LEAN CONCRETE FILL TO ROCK

3. ALLOWABLE BEARING PRESSURES:
CONTINUOUS WALL FOOTINGS = 5,000 psf
ISOLATED COLUMN FOOTINGS = 5,000 psf

4. BLASTING:
BLASTING IS NOT PERMITTED ON THIS PROJECT.

3. EARTHWORK, SLABS ON GRADE AND FOUNDATIONS:

★ A. THE OWNER WILL ENGAGE AN INDEPENDENT GEOTECHNICAL ENGINEERING, TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR" OR "GEOTECHNICAL ENGINEER") TO MONITOR AND (WHEN APPROPRIATE) DIRECT EARTHWORK OPERATIONS AND FOUNDATION CONSTRUCTION ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE SELECTED FIRM AND COORDINATE REQUIRED TESTING AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER TO ENSURE THAT ALL EARTHWORK IS CARRIED OUT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND GEOTECHNICAL REPORT, AND THAT ALL TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS ARE COMPLETED AND DOCUMENTED. CONTRACTOR SHALL PROVIDE TWENTY-FOUR (24) HOURS (MINIMUM) NOTICE TO GEOTECHNICAL ENGINEER WHEN EARTHWORK IS TO BE PERFORMED AND / OR WHEN EARTHWORK TESTING AND INSPECTIONS ARE REQUIRED. DUTIES OF THE GEOTECHNICAL ENGINEER ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

B. AFTER SUB-GRADE PROOF-ROLLING OPERATIONS (RE: CIVIL DRAWINGS AND SPECIFICATIONS) HAVE BEEN COMPLETED AND ACCEPTED BY THE GEOTECHNICAL ENGINEER, THE SLAB BASE SHALL BE PLACED AND COMPACTED. SLAB BASE SHALL CONSIST OF FOUR-INCHES (4") OF PROPERLY PLACED AND COMPACTED, WELL GRADED CRUSHED STONE (e.g. DENSE GRADED AGGREGATE (DGA) OR APPROVED EQUAL). THE STONE BASE SHALL BE COMPACTED TO 98% OF THE STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT WITHIN 2% OF OPTIMUM. STONE SLAB BASE SHALL BE PLACED AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.

C. UNLESS NOTED OTHERWISE, ALL FOUNDATIONS FOR THIS PROJECT SHALL BE CONSTRUCTED AT TOP OF FOOTING ELEVATIONS AS FOLLOWS: 24" (MIN.) BELOW ADJACENT INTERIOR FLOOR SLAB ON GRADE OR 18" (MIN.) BELOW ADJACENT EXTERIOR FINISH GRADE, WHICHEVER IS LOWER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE TOP OF FOOTING ELEVATION WITH FINISH FLOOR AND FINISH GRADE. THE CONTRACTOR SHALL PROVIDE FOOTING STEPS AS NECESSARY WHEN TOP OF FOOTING ELEVATION CHANGES DUE TO THESE CRITERIA - RE: G/S2.0

3. EARTHWORK, SLABS ON GRADE AND FOUNDATIONS: (CONTINUED)

★ D. SHALLOW ROCK (WEATHERED SANDSTONE) WAS IDENTIFIED IN THE GEOTECHNICAL REPORT BORING LOGS. FOUNDATIONS HAVE BEEN DESIGNED AS "ROCK BEARING" SHALLOW FOOTINGS. IF ROCK IS NOT ENCOUNTERED AT BOTTOM OF FOOTING ELEVATION DURING FOUNDATION EXCAVATION, THE EXCAVATION SHALL BE CARRIED DEEPER TO COMPETENT BEDROCK (AS FIELD DETERMINED BY GEOTECHNICAL ENGINEER). AFTER THE EXCAVATION IS APPROVED BY THE GEOTECHNICAL ENGINEER, THE EXCAVATION SHALL BE BROUGHT TO THE SPECIFIED BEARING ELEVATION WITH LEAN CONCRETE FILL – RE: D/S2.2 – GEOTECHNCAL ENGINEER SHALL DIRECT AND DOCUMENT ALL UNDERCUTTING AND BACKFILLING ACTIVITIES. (RE: CIVIL DRAWINGS AND SPECIFICATIONS FOR FILL MATERIAL CRITERIA AS WELL AS FILL PLACEMENT AND COMPACTION REQUIREMENTS.)

E. "XX FS" DENOTES A FOOTING STEP THAT A FOOTING STEP IS REQUIRED WHERE THE BOTTOM OF FOOTING ELEVATION CHANGES. "XX" DENOTES THE DEPTH OF THE FOOTING STEP. SEE DETAIL G/S2.0 FOR ADDITIONAL INFORMATION. THE FOOTING STEPS SHALL BE FIELD-LOCATED BY THE CONTRACTOR BASED ON THE ACTUAL CONDITIONS ENCOUNTERED. FOOTING STEP LOCATIONS AND DETAILS SHALL BE PROVIDED ON THE REINFORCING STEEL SHOP DRAWINGS.

F. ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO FINISH FLOOR ELEVATION 100'-0" (V.I.F. TO MATCH EXISTING) – COORDINATE WITH CIVIL DRAWINGS.

4. CAST-IN-PLACE REINFORCED CONCRETE:

A. CONCRETE MIX DESIGN, PLACING, FINISHING AND TESTING SHALL CONFORMANCE TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" BY THE AMERICAN CONCRETE INSTITUTE (ACI), LATEST EDITION.

B. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "REINFORCING BAR DETAILING MANUAL OF STANDARD PRACTICE", LATEST EDITION OF EACH.

C. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE ACI "FIELD REFERENCE MANUAL"; ACI PUBLICATION SP-15 (LATEST EDITION) AT THE JOB SITE AT ALL TIMES.

D. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO MONITOR AND INSPECT CONCRETE CONSTRUCTION, AND TEST CONCRETE MATERIALS ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE INSPECTOR AND COORDINATE WITH INSPECTOR TO ENSURE THAT ALL TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS ARE COMPLETED AND DOCUMENTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOURS NOTICE TO THE INSPECTOR WHEN CONCRETE TESTING OR INSPECTIONS ARE REQUIRED. THE DUTIES OF THE TESTING AND INSPECTION FIRM ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3

E. ALL CONCRETE USED ON THIS PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,000 psi AT TWENTY-EIGHT (28) DAYS (UNLESS NOTED OTHERWISE). CONCRETE USED IN CONSTRUCTION CONCRETE FLOOR SLABS ON GRADE & ELEVATED SLABS ON METAL FORM DECK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,500 psi AT TWENTY-EIGHT (28) DAYS.

F. THE MAXIMUM WATER-CEMENT RATIO (W/C) FOR CONCRETE USED IN CONCRETE FLOOR SLAB CONSTRUCTION SHALL BE 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM W/C OF 0.50 (UNLESS NOTED OTHERWISE).

G. ALL CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR ENTRAINED WITH AN AIR CONTENT OF 6% (+/- 1.5%).

EXCEPTION:
ENTRAINED AIR MAY BE OMITTED FROM THE CONCRETE MIX FOR FLOOR SLABS ONLY WHEN OUTSIDE AIR-TEMPERATURE IS PREDICTED TO REMAIN ABOVE 40° FOR A PERIOD OF AT LEAST FORTY-EIGHT (48) HOURS BEGINNING WITH CONCRETE PLACEMENT.

H. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATION A615 GRADE 60. (U.N.O.). REINFORCING STEEL THAT IS TO BE WELDED SHALL CONFORM TO ASTM A706, GR 60.

I. REINFORCING FOR CONCRETE FLOOR SLABS ON GRADE SHALL BE WELDED WIRE REINFORCEMENT, WWR 6x6-W2.9xW2.9 LOCATED AT 1½" BELOW THE TOP OF SLAB SURFACE (UNLESS NOTED OTHERWISE). WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY LOCATED AND SUPPORTED USING CHAIRS, BOLSTERS OR BAR SUPPORTS. "HOOKING" THE WWR AND ATTEMPTING TO PULL THE MESH INTO POSITION AFTER CONCRETE IS PLACED IS NOT ACCEPTABLE. AT EDGES AND ENDS OF WWR SHEETS AND / OR ROLLS, THE WELDED WIRE REINFORCEMENT SHALL BE LAPPED ONE (1) WIRE SQUARE SPACE PLUS TWO-INCHES (2") MINIMUM.

J. WELDING OF REINFORCING STEEL IS PERMITTED ONLY WITH THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE PERMITTED, WELDING SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, SECTION 5.3. INSPECTION OF WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH TABLE 1704.3 OF THE KBC.

K. ALL CONCRETE REINFORCING STEEL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES (UNLESS NOTED OTHERWISE). SPLICE LENGTH SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 5 OF THE CRSI "DESIGN HANDBOOK" (LATEST EDITION). LAP SPLICES FOR REINFORCING STEEL USED IN MASONRY CONSTRUCTION SHALL BE EQUAL TO 48 BAR DIAMETERS (MINIMUM).

L. MINIMUM CONCRETE PROTECTION FOR REINFORCING STEEL (CLEAR COVER):

1. UNFORMED SURFACE CAST AGAINST EARTH..... 3"
2. FORMED SURFACE IN CONTACT WITH EARTH..... 2½"
3. FORMED SURFACE EXPOSED TO WEATHER..... 2½"
4. FORMED SURFACE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   a. SLABS..... ¾"
   b. WALLS AND JOISTS..... 1½"
   c. BEAMS, GIRDERS AND COLUMNS..... 2½"
5. IN NO CASE SHALL THE CLEAR COVER BE LESS THAN THE BAR DIAMETER.

M. ALL HOOKS SHOWN ON THE DRAWINGS FOR REINFORCING STEEL SHALL BE ACI STANDARD 90° OR ACI STANDARD 180° HOOKS AS INDICATED.
1. BAR LENGTHS SHOWN ARE "OUT-TO-OUT" AND DO NOT INCLUDE HOOK LENGTH.
2. PROVIDE HOOKS FOR ALL TOP BARS IN SLABS AND BEAMS AT DISCONTINUOUS ENDS

N. PROVIDE CORNER BARS TO MATCH ALL LONGITUDINAL REINFORCING STEEL AT CORNERS AND INTERSECTIONS OF ALL CONCRETE WALLS, BEAMS, GRADE BEAMS, THICKENED SLABS, etc. CORNER BAR SIZE AND SPACING SHALL MATCH THE SIZE AND SPACING OF LONGITUDINAL BARS BEING LAPPED. PROVIDE 24" LAP FOR ALL CORNER BARS #7 AND SMALLER. PROVIDE 30" LAP FOR ALL CORNER BARS #8 AND LARGER. SEE DETAIL D/S2.0 FOR ADDITIONAL INFORMATION.

O. WHERE DOWELS ARE REQUIRED OUT OF FOUNDATION WALLS AND FOOTINGS TO MATCH VERTICAL BARS IN MASONRY WALLS, THE REBAR DETAILER FOR THE REINFORCING STEEL SUPPLIER SHALL LOCATE EACH SUCH DOWEL ON REINFORCING STEEL PLACEMENT DRAWINGS. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN THE REJECTION OF THE REINFORCING STEEL SHOP DRAWING SUBMITTAL.

P. NOT USED.

4. CAST-IN-PLACE REINFORCED CONCRETE: (CONTINUED)

Q. "C.J." DENOTES A SLAB CONSTRUCTION JOINT OR SLAB CONTROL JOINT AT THE CONTRACTOR'S OPTION. CONTROL JOINTS SHALL BE SAW-CUT TO A DEPTH EQUAL TO ONE-QUARTER (¼) OF THE SLAB THICKNESS. SEE DETAIL A/S2.0 FOR ADDITIONAL INFORMATION REGARDING SLAB CONTROL / CONSTRUCTION JOINTS:

1. THE C.J. LAYOUT SHOWN ON THE PLAN IS FOR CONCEPTUAL PURPOSES ONLY. THE CONTRACTOR SHALL LAY OUT C.J.'s AT A MAXIMUM SPACING OF 15'-0".
   a. CONTRACTOR SHALL SHOW PROPOSED C.J. LAYOUT ON REINFORCING STEEL SHOP DRAWINGS SUBMITAL.
   b. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTOR TO FACILITATE CONCRETE PLACEMENT (UNLESS NOTED OTHERWISE).
2. NO LATER THAN ONE-WEEK AFTER SUBMITTING THE C.J. LAYOUT PLAN TO THE ARCHITECT, THE CONTRACTOR SHALL CONVENE A PRE-CONCRETE CONFERENCE AT THE JOB SITE TO RESOLVE ANY QUESTIONS THAT THE ARCHITECT, ENGINEER AND / OR CONTRACTOR MAY HAVE.
3. CONTROL JOINTS MUST BE SAW-CUT A WITHIN A MAXIMUM OF TWELVE (12) HOURS AFTER CONCRETE PLACEMENT.

R. SPECIAL ATTENTION IS DIRECTED TO SECTION 03300 OF THE SPECIFICATIONS FOR CONCRETE TESTING REQUIREMENTS AND THE DISTRIBUTION OF TEST REPORTS. ADDITIONAL INFORMATION REGARDING CONCRETE TESTING IS CONTAINED IN SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

S. WHERE NEW REINFORCING STEEL IS REQUIRED OUT OF IN-PLACE CONCRETE OR CONCRETE MASONRY (CMU), DEFORMED BARS OF THE SIZE SPECIFIED ON THE DRAWINGS SHALL BE SET INTO THE HARDENED CONCRETE / CMU USING AN ACRYLIC BASED, ALL-TEMPERATURE ADHESIVE ANCHORING SYSTEM SUCH AS "ACRYLIC TIE (AT)" HIGH STRENGTH, ALL-TEMPERATURE ADHESIVE SYSTEM MANUFACTURED BY THE "SIMPSON STRONG-TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" OR USING AN EPOXY BASED ADHESIVE ANCHORING SYSTEM SUCH AS "HILTI HIT-RE 500 V3" FOR CONCRETE AND "HILTI HIT-HY70" FOR CMU. THESE PRODUCTS ARE PRODUCED BY "HILTI; P. O. BOX 21148; TULSA, OK 74121" (OR APPROVED EQUAL). THE DEPTH OF EMBEDMENT SHALL BE AS INDICATED ON THE PLANS. WHERE NO DEPTH IS SPECIFIED, EMBEDMENT SHALL BE AS SPECIFIED BY THE ADHESIVE MANUFACTURER TO DEVELOP THE FULL YIELD STRENGTH OF THE BAR. INSTALLATION SHALL BE IN ACCORDANCE WITH NOTE 4.W (BELOW).

T. WHERE NEW ANCHOR BOLTS ARE REQUIRED OUT OF IN-PLACE CONCRETE OR CONCRETE MASONRY (CMU), THREADED RODS OF THE SIZE SPECIFIED ON THE DRAWINGS SHALL BE SET INTO THE HARDENED CONCRETE / CMU USING AN ACRYLIC BASED, ALL-TEMPERATURE ADHESIVE ANCHORING SYSTEM SUCH AS "ACRYLIC TIE (AT)" HIGH STRENGTH, ALL-TEMPERATURE ADHESIVE SYSTEM MANUFACTURED BY THE "SIMPSON STRONG-TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" OR USING AN EPOXY BASED ADHESIVE ANCHORING SYSTEM SUCH AS "HILTI HIT-HY 200" FOR CONCRETE AND "HILTI HIT-HY70" FOR CMU. "HILTI HIT-Z" OR "HIT-Z-R" ANCHOR RODS SHALL BE USED WITH HILTI EPOXIES THESE PRODUCTS ARE PRODUCED BY "HILTI; P. O. BOX 21148; TULSA, OK 74121" (OR APPROVED EQUAL). THE DEPTH OF EMBEDMENT SHALL BE AS INDICATED ON THE PLANS. WHERE NO DEPTH IS SPECIFIED, EMBEDMENT SHALL BE AS SPECIFIED BY THE ADHESIVE MANUFACTURER TO DEVELOP THE FULL YIELD STRENGTH OF THE BAR. INSTALLATION SHALL BE IN ACCORDANCE WITH NOTE 4.W (BELOW).

U. WHERE "KWIK BOLTS" (BASIS OF DESIGN) ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSTALL EXPANSION ANCHORS OF THE SIZE AND QUANTITY SPECIFIED. USE "KWIK BOLT TZ" EXPANSION ANCHORS FOR CONCRETE APPLICATIONS AND "KWIK BOLT 3" EXPANSION ANCHORS FOR CONCRETE MASONRY (CMU) APPLICATIONS. "KWIK BOLTS" SHALL BE MANUFACTURED BY "HILTI, CORP; P.O. BOX 21148; TULSA, OKLAHOMA 74146" OR USE "STRONG-BOLTS" (FOR CONCRETE & CMU) PRODUCED BY "SIMPSON STRONG-TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" (OR APPROVED EQUAL). EXPANSION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH NOTE 4.W (BELOW). WHERE NO EMBEDMENT DEPTH FOR ANCHORS IS SPECIFIED ON THE DRAWINGS, EXPANSION ANCHORS SHALL BE INSTALLED INTO CONCRETE OR MASONRY (CMU) AS SPECIFIED IN THE FOLLOWING SCHEDULE:

1.	½" ø ANCHOR	3½" (CONCRETE)	4¼"	(CMU)
2.	⅝" ø ANCHOR	4" (CONCRETE)	5"	(CMU)
3.	¾" ø ANCHOR	4¾" (CONCRETE)	6"	(CMU)
4.	1" ø ANCHOR	6" (CONCRETE)	7½"	(CMU)

AT CONTRACTOR'S OPTION, EXPANSION ANCHORS MAY BE REPLACED WITH ADHESIVE ANCHORS SIMILAR TO THOSE DEFINED IN NOTE No. T (ABOVE). DEPTH OF EMBEDMENT SHALL BE AS SPECIFIED HEREIN.

V. WHERE CONCRETE SCREWS ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSTALL CONCRETE SCREWS OF THE SIZE AND QUANTITY SPECIFIED. USE "KWIK HUS-EZ (KH-EZ)" CONCRETE SCREWS MANUFACTURED B

5. CONCRETE MASONRY (CMU) CONSTRUCTION:

A. ALL MASONRY CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ACI 530; ASCE 5; TMS 402; ACI 530.1; ASCE 6; AND TMS 602 (LATEST EDITION OF EACH).

B. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO MONITOR AND INSPECT MASONRY CONSTRUCTION AND TEST MASONRY MATERIALS ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE INSPECTOR AND COORDINATE BETWEEN THE MASON AND THE INSPECTOR TO ENSURE THAT ALL TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND AS REQUIRED BY SECTION 1705.4 OF THE KENTUCKY BUILDING CODE AND TMS 402, TMS 602, ACI 530, ACI 530.1, ASCE 5 & ASCE 6 (LEVEL B INSPECTIONS) ARE COMPLETED AND DOCUMENTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOURS NOTICE TO THE INSPECTOR WHEN MASONRY INSPECTIONS ARE REQUIRED. DUTIES OF THE TESTING AND INSPECTION FIRM ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

C. ALL CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 psi BASED ON THE NET AREA AND SHALL CONFORM TO ASTM C90. THE CMU SUPPLIER SHALL SUBMIT CERTIFIED TEST REPORTS TO DOCUMENT THAT THE SPECIFIED VALUE HAS BEEN MET. ALL MORTAR FOR CMU CONSTRUCTION SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C270.

D. GROUT USED FOR CMU CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'g) OF 2,500 psi AND SHALL CONFORM TO ASTM C476. THE USE OF MORTAR FOR GROUTING BOND BEAMS AND CMU CELLS IS NOT ACCEPTABLE. ANY MASONRY CONSTRUCTION FOUND TO HAVE MORTAR INSTEAD OF GROUT IN CMU CELLS, BOND BEAMS AND / OR LINTELS WILL BE DEMOSLISHED, REMOVED AND RE-BUILT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT THE CONTRACTOR'S EXPENSE.

★ E. A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BETWEEN GROUT POURS FOR CMU CELLS BY STOPPING THE CMU WALL AT A CONTSTANT ELEVATION THROUGHOUT AND THEN HOLDING THE GROUT A MINIMUM OF 1½" AND A MAXIMUM OF 4½" BELOW THE MORTAR JOINT (EXCEPT AT TOP OF WALL). FOR CMU CELL GROUT POURS OVER FIVE-FEET (5') IN HEIGHT, A CLEANOUT SHALL BE PROVIDED IN THE BOTTOM CMU COURSE AT EVERY CELL TO BE GROUTED.

★★ F. THE MASON SHALL MECHANICALLY CONSOLIDATE AND RE-CONSOLIDATE THE GROUT IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS.

G. PROVIDE ADDITIONAL VERTICAL REINFORCEMENT FOR CMU WALLS CONSISTING OF #5 BARS (FOR 8" CMU) or #7 BARS (FOR 12" CMU) IN GROUTED SOLID CMU CELLS AT EACH SIDE OF ALL WALL OPENINGS AS WELL AS AT ENDS AND CORNERS OF ALL WALLS. SEE DETAIL E/S4.0 FOR ADDITIONAL INFORMATION. PROVIDE AN ADDITIONAL #5 or #7 BAR IN GROUTED SOLID CMU CELLS ON EITHER SIDE OF ALL MASONRY CONTROL JOINTS AND EXPANSION JOINT. SEE DETAIL D/S4.0 FOR MORE INFORMATION.

H. PROVIDE A GROUTED SOLID MASONRY COLUMN (MC) UNDER STEEL BEAM BEARING PLATES IN ACCORDANCE WITH SECTIONS 1/S4.1. MINIMUM MASONRY COLUMN UNDER STEEL BEAM BEARING SHALL BE MC816 FOR 8" CMU WALLS & MC1224 FOR 12" CMU WALLS. SEE DETAIL B/S4.1 FOR ADDITIONAL INFORMATION ON MASONRY COLUMN CONSTRUCTION.

★ J. ALL VERTICAL REINFORCING BARS IN MASONRY WALLS SHALL BE PROPERLY LOCATED WITHIN THE CMU CELLS USING PREFABRICATED, (GALVANIZED STEEL or PLASTIC) REBAR POSITIONERS SUCH AS THOSE MANUFACTURED BY "DUR-O-WALL" (OR APPROVED EQUAL). REBAR POSITIONERS SHALL BE LOCATED AT 48" CENTERS ON EACH VERTICAL BAR.

K. ALL VERTICAL REINFORCING BARS FOR CMU WALLS SHALL BE FULLY DEVELOPED WITH MATCHING DOWELS OUT OF THE FOUNDATION WALL.

★ L. THE DETAILER FOR THE REINFORCING STEEL FABRICATOR SHALL INDICATE ALL DOWELS OUT OF FOUNDATION REQUIRED FOR MATCHING MASONRY WALL VERTICAL REINFORCING ON THE FABRICATOR'S REBAR PLACEMENT DRAWINGS FOR THE CONCRETE FOUNDATION WALLS.

M. PROVIDE REINFORCED MASONRY LINTEL BEAM PER DETAILS ACROSS THE TOP OF ALL CMU WALL OPENINGS. PROVIDE 8" Dp. CMU BOND BEAM ACROSS THE BOTTOM OF ALL CMU WALL OPENINGS (EXCEPT DOOR OPENINGS). SEE DETAILS A/S4.0 & B/S4.0 FOR ADDITIONAL INFORMATION.

N. SEE "CAST-IN-PLACE REINFORCED CONCRETE" NOTES ON SHEET S0.1 AND SPECIFICATION SECTION 033000 FOR ADDITIONAL INFORMATION REGARDING REINFORCING STEEL SPECIFICATIONS.

O. GROUTED SOLID CMU BOND BEAMS SHOWN ON THE PLANS SHALL BE CONSTRUCTED USING "KNOCK-OUT-WEB" BOND BEAM UNITS EXCEPT AT THE HEAD OF WALL OPENINGS WHERE BOND BEAM LINTEL BLOCKS SHALL BE USED AS INDICATED.

P. PROVIDE HORIZONTAL JOINT REINFORCEMENT FOR ALL CMU WALLS (INCLUDING WALLS NOT SHOWN ON STRUCTURAL DRAWINGS) CONSISTING OF PREFABRICATED "LADDER TYPE" REINFORCEMENT SUCH AS "DUR-O-WALL SEISMIC LADUR" OR APPROVED EQUAL AT 16" CENTERS (EVERY OTHER MORTAR JOINT) UNLESS NOTED OTHERWISE. PROVIDE PREFABRICATED "L's" and "T's" AT ALL WALL CORNERS AND INTERSECTIONS. SEE DETAIL E/S4.0 FOR ADDITIONAL INFORMATION.

Q. PROVIDE CORNER BARS (C.B.) TO MATCH HORIZONTAL BOND BEAM REINFORCING IN ALL CMU BOND BEAMS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS. SEE DETAIL C/S4.0 FOR ADDITIONAL INFORMATION.

R. PROVIDE MASONRY CONTROL JOINTS IN ALL CMU WALLS WHERE INDICATED ON THE PLANS. IF NO CONTROL JOINTS ARE SHOWN ON THE PLANS, THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 24'-0" OR THREE (3) TIMES THE WALL HEIGHT (WHICHEVER IS LESS) FOR ALL INTERIOR AND EXTERIOR CMU WALLS. A MASONRY CONTROL JOINT SHALL ALSO BE PROVIDED WITHIN A MAXIMUM OF 12'-0" FROM ALL CORNERS FOR ALL INTERIOR AND EXTERIOR CMU WALLS. THE MASON SHALL COORDINATE THE LOCATIONS OF ALL CONTROL JOINTS WITH THE ARCHITECT. SEE DETAILS A/S4.0 & D/S4.0 FOR ADDITIONAL INFORMATION.

★ S. THE CONTRACTOR SHALL CONVENE A MEETING TO DISCUSS MASONRY DETAILS PRIOR TO THE START OF MASONRY CONSTRUCTION. MEETING ATTENDEES SHALL INCLUDE THE CONTRACTOR, THE MASON, THE ARCHITECT, THE INSPECTOR AND THE STRUCTURAL ENGINEER. THE OWNER SHALL BE INVITED TO THIS MEETING, HOWEVER, THE OWNER'S ATTENDANCE OF THIS MEETING IS NOT REQUIRED.

★ T. WHERE SHRINKAGE CRACKS DEVELOP IN THE MASONRY WALLS, THE CONTRACTOR SHALL TREAT THOSE CRACKS WITH A LIQUID CRACK SEALER PRIOR TO APPLICATION OF FINAL FINISH COATING. THE LIQUID CRACK SEALER SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. SUBJECT TO APPROVAL, THE CRACK SEALER SHALL BE "CRACK-PAC INJECTION EPOXY" MANUFACTURERED BY THE "SIMPSON STRONG-TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OH 43228" (BASIS OF DESIGN – RE: NOTE No. 1.K ON SHEET S0.1 FOR ADDITIONAL INFORMATION). THESE REPAIRS SHALL BE MADE AT NO COST TO THE OWNER.

6. STRUCTURAL STEEL:

A. DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), ALLOWABLE STRESS DESIGN (ASD) NINTH EDITION. DESIGN SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" (JUNE 1, 1989). DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (MARCH 7, 2000).

B. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO MONITOR STEEL ERECTION ON THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE SELECTED FIRM AND COORDINATE BETWEEN THE STEEL ERECTOR AND THE INSPECTOR TO INSURE THAT ALL REQUIRED TESTING AND INSPECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS ARE COMPLETED AND DOCUMENTED. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOURS NOTICE TO THE INSPECTOR WHEN STRUCTURAL STEEL INSPECTIONS ARE REQUIRED. DUTIES OF THE TESTING AND INSPECTION FIRM ARE OUTLINED IN THE SPECIAL INSPECTIONS NOTES ON SHEET S0.3.

C. THE "TYPE OF CONSTRUCTION" FOR THIS PROJECT AS DEFINED BY AISC IS: TYPE 2 – SIMPLE FRAMING.

D. STRUCTURAL STEEL SHAPES (EXCLUDING WIDE FLANGES) AND PLATES SHALL CONFORM TO ASTM A36 EXCEPT AS NOTED OTHERWISE. ALL SQUARE AND RECTANGULAR HOLLOW STEEL (HSS) / TUBE STEEL (HSS) SECTIONS SHALL CONFORM TO ASTM A500, GRADE C. ALL ROUND HOLLOW STEEL SECTIONS (PIPE COLUMNS) SHALL CONFORM TO ASTM A500, GRADE B OR ASTM A53, GRADE B

E. ALL WIDE FLANGE (W) SHAPES SHALL BE FABRICATED FROM MATERIAL CONFORMING TO ASTM A992, GRADE 50 (Fy = 50 ksi) UNLESS NOTED OTHERWISE.

F. WHERE REQUIRED ON THE PLANS, ALL HIGH STRENGTH STEEL PLATES SHALL CONFORM TO ASTM A572, GRADE 50 (Fy = 50 ksi).

6. STRUCTURAL STEEL: (CONTINUED)

G. ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325X. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GR 36 (FOR ANCHOR BOLTS LESS THAN 1" IN DIAMETER) OR ASTM F1554, GRADE 105 (FOR ANCHOR BOLTS EQUAL TO OR GREATER THAN 1" IN DIAMETER). THREADED ROD SHALL CONFORM TO ASTM A36 (FOR RODS LESS THAN 1" IN DIAMETER) OR ASTM A572, GRADE 50 (FOR RODS EQUAL TO OR GREATER THAN 1" IN DIAMETER). PROVIDED A SUFFICIENT QUANTITY OF COMPATIBLE NUTS AND FLAT WASHERS FOR ALL CONNECTIONS.

H. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTION UNLESS OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS. ALL FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS. BOLTED CONNECTIONS SHALL BE BEARING TYPE MADE USING ASTM A325X BOLTS IN CONFORMANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BEAM FRAMING CONNECTIONS MAY BE "SINGLE-PLATE SHEAR CONNECTIONS DETAILED IN ACCORDANCE WITH TABLE X OF THE AISC MANUAL. "USUAL GAGE" DIMENSIONS SHALL BE USED FOR LOCATING HOLES FOR BOLTS, EXPANSION ANCHORS, ETC. IN ALL ANGLE LEGS, BEAM FLANGES, ETC.

J. ALL WELDING SHALL BE IN CONFORMANCE WITH THE AMERICAN WELDING SOCIETY (AWS) CODES, STANDARDS AND SPECIFIICATIONS. ALL WELDS SHALL BE MADE USING E70XX ELECTRODES UNLESS NOTED OTHERWISE.

K. WHERE HEADED WELDING STUDS OR HEADED ANCHORS ARE SPECIFIED ON THE DRAWINGS, "NELSON STUDS" OF THE SIZE INDICATED SHALL BE AUTOMATICALLY WELDED TO THE BASE MATERIAL IN ACCORDANCE WITH THE STUD MANUFACTURER's SPECIFICATIONS. STUD LENGTH DENOTED WITH "AW" OR "A.W." ON THE DRAWINGS SHALL BE THE LENGTH OF STUD "AFTER WELDING". HEADED STUDS SHALL BE MADE FROM COLD-DRAWIN STEEL CONFORMING TO ASTM A108. SUBJECT TO APPROVAL, THE HEADED WELDING STUDS USED ON THIS PROJECT SHALL BE THE PRODUCTS OF "TRW, INC.; NELSON STUD WELDING DIVISION; 7900 WEST RIDGE ROAD; P. O. BOX 4019; ELYRIA, OHIO; 44036" (OR APPROVED EQUAL).

L. PROVIDE POSITIVE CAMBER AS NOTED ON THE PLANS. WHERE NO CAMBER IS SPECIFIED, THE RESIDUAL MILL CAMBER SHALL BE UPWARDS.

M. ALL EXPOSED ANGLE AND PLATE LINTELS FOR MASONRY CONSTRUCTION (BRICK VENEER) SHALL BE HOT-DIPPED GALVANIZED.

★★ N. THE STRUCTURAL STEEL "FAB SHOP" THAT PROVIDES THE STEEL ON THIS PROJECT MUST BE AISC OR AWS CERTIFIED. SEE SPECIFICATION SECTION 05120 FOR EXCEPTIONS.

7. OPEN-WEB STEEL BAR JOISTS:

A. DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STEEL BAR JOISTS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION.

B. SUBJECT TO APPROVAL, THE BAR JOISTS ON THIS PROJECT SHALL BE THE PRODUCTS OF "VULCRAFT, A DIVISION OF NUCOR CORP.; P. O. BOX 169; FORT PAYNE, ALABAMA 35967" (OR APPROVED EQUAL).

★ C. WHERE OSHA AND / OR THE STEEL JOIST INSTITUE SPECIFICATIONS REQUIRE ERECTION BOLTS FOR BAR JOISTS AND JOIST GIRDERS, THE BAR JOIST DETAILER SHALL INDICATE ERECTION BOLTS ON THE SHOP / ERECTION DRAWINGS. THE BAR JOIST DETAILER SHALL COORDINATE ERECTION BOLT LOCATIONS WITH THE STRUCTURAL STEEL DETAILER SO THAT BOLT HOLES ARE PROVIDED IN THE SUPPORTING STEEL STRUCTURE WHERE NECESSARY.

D. ALL BAR JOISTS SHALL BE WELDED TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WELDING SHALL BE IN ADDITION TO ANY ERECTION BOLTS REQUIRED BY OSHA AND / OR INDICATED ON THE SHOP DRAWINGS. SEE DETAIL B/S5.1 FOR ADDITIONAL INFORMATION.

E. ALL JOIST SHALL RECEIVE ONE SHOP COAT OF PRIMER EQUIVALENT TO SSPC 15-68T.

★ F. THE JOIST FABRICATOR SHALL DESIGN ANY AND ALL JOIST TOP CHORD EXTENSIONS (TCX) INDICATED ON THE PLANS FOR THE DEAD AND LIVE LOAD CAPACITIES OF THE JOIST.

★ G. WHERE CONCENTRATED LOADS ARE TO BE SUPPORTED DIRECTLY FROM THE CHORDS OF BAR JOISTS, THE ATTACHMENT SHALL BE MADE IN SUCH A MANNER AND AT SUCH A LOCATION THAT LOCAL BENDING IS NOT INDUCED INTO JOIST CHORDS. WHEN THIS IS NOT POSSIBLE, THE JOISTS SHALL BE REINFORCED IN ACCORDANCE WITH SJI DETAILS. WHENEVER POSSIBLE, THE CONTRACTOR SHALL LOCATE CONCENTRATED LOADS ON THE JOIST SHOP DRAWINGS AND THE JOIST FABRICATOR SHALL REINFORCE THE JOISTS IN THE SHOP. SEE DETAIL E/S5.1 FOR ADDITIONAL INFORMATION.

★ H. THE CONTRACTOR SHALL FURNISH AND INSTALL BRIDGING FOR ALL STEEL BAR JOISTS. JOIST BRIDGING SIZE, CONFIGURATION, SPACIING AND INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. ENDS OF JOISTS BRIDGING LINES THAT TERMINATE AT WALLS OR BEAMS SHALL BE EXTENDED AND ANCHORED THERETO BY AN APPROVED METHOD. THE STEEL JOIST DETAILER SHALL COORDINATE ATTACHMENT DETAILS WITH THE STRUCTURAL STEEL DETAILER. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLES, PLATES, CONCRETE EXPANSION ANCHORS, ETC. REQUIRED TO ATTACH JOIST BRIDGING TO WALLS AND / OR STRUCTURAL STEEL FRAMING AS SPECIFIED HEREIN AND DETAILED BY THE BAR JOIST FABRICATOR's DETAILER. SEE DETAIL F/S5.1 FOR ADDITIONAL INFORMATION.

J. THE CONTRACTOR SHALL NOT ALLOW DUCKWORK, CONDUIT OR CEILINGS TO BE HUNG FROM JOIST BRIDGING.

K. ALL ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 20 psf. THE JOIST FABRICATOR SHALL SUBMIT UPLIFT DESIGN CALCULATIONS WITH THE JOIST SHOP DRAWINGS.

8. METAL ROOF DECK:

A. DESIGN, DETAILING, FABRICATOIN AND INSTALLATION OF ALL METAL ROOF DECK ON THIS PROJECT SHALL CONFORM TO THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE (SDI). PARTICULAR ATTENTION IS DIRECTED TO THE SDI DIAPHRAGM DESIGN MANUAL (DDMD2), THE SDI MANUAL OF CONSTRUCTION WITH STEEL DECK (MOC1), THE SDI STANDARD PRACTICE DETAILS AND THE SDI DECK DAMAGE AND PENETRATION, LATEST EDITION OF EACH.

B. METAL ROOF DECK ON THE LIGHT-GAUGE METAL TRUSSES 1.5B20 "WIDE RIB" METAL DECK (U.N.O.) ATTACH THE 1.5B20 METAL ROOF DECK TO THE CANOPY SUPPORTING STRUCTURE USING No. 12 SELF-DRILLING, SELF-TAPPING SCREWS IN A 36/5 FASTENER LAYOUT. SIDELAP FASTENERS SHALL BE No. 10 SELF-DRILLING, SELF-TAPPING SCREWS AT 12" CENTERS. RE: A/S5.1

★ C. THE ANCHORAGE OF THE METAL ROOF DECK TO THE SUPPORTING STEEL STRUCTURE SHALL BE CAPABLE OF RESISTING A 45 psf NET UPLIFT (60 psf NET UPLIFT AT EAVES, OVERHANGS AND CANOPIES). IF THE FASTENER PATTERN SPECIFIED HEREIN IS NOT ADEQUATE TO RESIST THESE UPLIFT VALUES, THE METAL DECK SUPPLIER SHALL INDICATE A FASTENER PATTERN ON THE SHOP DRAWINGS THAT WILL MEET THIS REQUIREMENT. METAL ROOF DECK SUPPLIER SHALL SUBMIT UPLIFT CALCULATIONS ALONG WITH DECK SHOP DRAWINGS.

★ D. WELDING METAL DECK TO THE SUPPORTING STEEL STRUCTURE AND / OR WELDING SIDELAP ATTACHMENTS IS PROHIBITED ON THIS PROJECT.

★ E. ALL METAL DECK ON THIS PROJECT SHALL BE COLD-FORMED FROM SHEET STEEL CONFORMING TO ASTM A653 (MINIMUM TENSILE YIELD STRENGTH, Fy = 33 ksi).

F. ALL METAL DECK SHALL BE GALVANIZED PER ASTM A924 WITH A MINIMUM COATING CLASS OF G90 (Z275).

G. SUBJECT TO APPROVAL, THE METAL ROOF DECK ON THIS PROJECT SHALL BE THE PRODUCTS OF "VULCRAFT, A DIVISION OF NUCOR CORP.; P. O. BOX 1000; ST. JOE, INDIANA 46785" (BASIS OF DESIGN RE: NOTE No. 1.K ON SHEET S0.1 FOR ADDITIONAL INFORMATION)

H. SUBJECT TO APPROVAL, SELF-DRILLING, SELF-TAPPING FASTENERS USED TO ATTACH METAL DECK TO SUPPORTING STEEL STRUCTURE ON THIS PROJECT SHALL BE "HILTI KWIK-FLEX" SELF-DRILLING SCREWS OF THE SIZE SPECIFIED, MANUFACTURERED BY "HILTI; P. O. BOX 21148; TULSA, OKLAHOMA 74121" (BASIS OF DESIGN).

★ J. WHERE POSSIBLE, THE METAL DECK SHALL BE CONTINUOUS OVER THREE (3) OR MORE SUPPORTS.

K. THE CONTRACTOR SHALL FURNISH AND INSTALL THE METAL ROOF DECK MANUFACTURER's STANDARD METAL ROOF DECK ACCESSORIES (e.g. VALLEY PLATES, RIDGE PLATES, FILLER PLATES, FLAT PLATES, CLOSURE STRIPS, ETC.) WHERE APPLICABLE.

9. LIGHT GAUGE METAL FRAMING:

A. ALL LIGHT-GAUGE STRUCTURAL METAL FRAMING (METAL STUDS, JOISTS AND ACCESSORIES) SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS. LIGHT-GAUGE METAL FRAMING SHALL BE CONSTRUCTED USING THE PRODUCTS OF "DEITRICH METAL FRAMING (A WORTHINGTON INDUSTRIES COMPANY); 500 GRANT STREET. SUITE 2226; PITTSBURGH, PA 15219" (OR APPROVED EQUAL).

★ B. ALL LIGHT-GAUGE METAL FRAMING SHALL BE DESIGNED, DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI), LATEST EDITION.

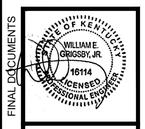
C. ALL LIGHT-GAUGE METAL FRAMING SHALL BE COLD-FORMED FROM CORROSION-RESISTANT STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM1003. STRUCTURAL STUDS AND JOISTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 ksi. TRACK RUNNERS AND OTHER ACCESSORIES SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 ksi.

D. ALL LIGHT-GAUGE METAL FRAMING SHALL BE ZINC COATED (GALVANIZED) IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A1003 – G60.

E. THE LIGHT-GAUGE METAL FRAMING DETAILS SHOWN ON THE CONTRACT DOCUMENTS ARE FOR CONCEPTUAL PURPOSES ONLY. THE ACTUAL DETAILS OF CONSTRUCTION FOR THE LIGHT-GAUGE METAL FRAMING SYSTEM SHALL BE THE RESPONSIBILITY OF THE LIGHT-GAUGE METAL COMPONENT SUPPLIER. THE LIGHT-GAUGE METAL COMPONENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ALL LIGHT-GAUGE METAL FRAMING (INCLUDING METAL STUDS, METAL JOISTS, AS WELL AS ALL OTHER MISCELLANEOUS ITEMS AND ACCESSORIES, ETC. NECESSARY TO COMPLETE THE LIGHT-GAUGE METAL FRAMING SYSTEM INDICATED ON THE CONTRACT DOCUMENTS) TO THE ARCHITECT FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE CERTIFIED, STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE COMMONWEALTH OF KENTUCKY AND EXPERIENCED IN STRUCTURAL ENGINEERING.

SHERMAN CARTER BARNHART
ARCHITECTS

FINAL DOCUMENTS



PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

STRUCTURAL NOTES

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S0.2

SPECIAL INSPECTIONS

GENERAL

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF WORK REQUIRED BY CHAPTER 17 OF THE BUILDING CODE THAT IS WITHIN THE SCOPE OF THE STRUCTURAL ENGINEERING SERVICES FOR THIS PROJECT. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE ARCHITECT A WRITTEN STATEMENT OF RESPONSIBILITY THAT CONTAINS THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THIS STRUCTURAL QUALITY ASSURANCE PLAN.

2. ACKNOWLEDGMENT THAT CONTROL SHALL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR's ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.

4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

THE STRUCTURAL TESTING/INSPECTION AGENCY THAT IS TO ACT AS THE SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER AND SHALL BE APPROVED BY THE BUILDING OFFICIAL. THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL SUBMIT THE NAME AND QUALIFICATIONS OF ITS PERSONNEL THAT WILL ACT AS THE SPECIAL INSPECTOR. IF MULTIPLE STRUCTURAL TESTING/INSPECTION AGENCIES ARE USED, SUBMIT THE INFORMATION STATED ABOVE FOR EACH FIRM ALONG WITH A STATEMENT OF THE SPECIAL INSPECTION RESPONSIBILITIES FOR EACH FIRM.

THE CONTRACTOR SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR WORK OR MATERIALS NOT COMPLYING WITH THE CONSTRUCTION DOCUMENTS DUE TO NEGLIGENCE OR NONCONFOMANCE AND SHALL PAY FOR ANY ADDITIONAL STRUCTURAL TESTING/INSPECTION REQUIRED FOR HIS CONVENIENCE.

CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SPECIAL INSPECTOR IS PRESENT FOR ALL WORK REQUIRING SPECIAL INSPECTION. ANY WORK THAT REQUIRES SPECIAL INSPECTION AND IS PERFORMED WITHOUT THE SPECIAL INSPECTOR BEING PRESENT IS SUBJECT TO BEING DEMOLISHED, RE-CONSTRUCTED, AND RE-INSPECTED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR HAS THE FOLLOWING RESPONSIBILITIES TO THE SPECIAL INSPECTOR:

1. PROVIDE A COPY OF THE CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR.

2. NOTIFY THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.

3. COOPERATE WITH SPECIAL INSPECTOR AND PROVIDE ACCESS TO WORK.

4. PROVIDE SAMPLES OF MATERIALS TO BE TESTED IN REQUIRED QUANTITIES.

5. PROVIDE STORAGE SPACE FOR THE SPECIAL INSPECTOR's EXCLUSIVE USE, SUCH AS FOR STORING AND CURING CONCRETE TESTING SAMPLES.

6. PROVIDE LABOR TO ASSIST THE SPECIAL INSPECTOR IN PERFORMING TESTS/INSPECTIONS.

★ WHEN THE CONTRACTOR CALLS FOR SPECIAL INSPECTIONS AND IS NOT READY WHEN THE INSPECTOR ARRIVES ON SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR THE INSPECTOR's WASTED TIME.

SPECIAL INSPECTOR RESPONSIBILITIES

SPECIAL INSPECTOR SHALL MAINTAIN RECORDS OF INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE AND SHALL DISTRIBUTE THESE RECORDS TO THE BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER ON A WEEKLY BASIS. AT THE CONCLUSION OF THE PROJECT THE SPECIAL INSPECTOR SHALL SUBMIT A WRITTEN STATEMENT THAT THE SPECIAL INSPECTIONS DURING CONSTRUCTION HAVE COMPLIED WITH THIS STRUCTURAL QUALITY ASSURANCE PLAN AND THAT ANY DISCREPENCIES NOTED DURING CONSTRUCTION HAVE BEEN CORRECTED. ANY AND ALL DISCREPENCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR, THE CONSTRUCTION MANAGER AND THE ARCHITECT IMMEDIATELY.

SOILS

THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY THAT THE STRUCTURAL FILL COMPLIES WITH SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT.

2. OBSERVE PROOFROLLING

3. PERFORM FIELD DENSITY TESTS TO VERIFY COMPACTION OF STRUCTURAL FILL. AS A MINIMUM, PERFORM ONE TEST PER LIFT FOR EVERY 2500 SQUARE FEET OF FILL PLACED.

4. VERIFY FOUNDATION BEARING CAPACITY.

5. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

CAST IN PLACE CONCRETE

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL TEST REPORTS.

2. SUBMIT MANUFACTURER's DATA FOR TENSILE AND COMPRESSIVE SPLICERS.

3. ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318, CHAPTER 5. SUBMIT THREE COPIES OF EACH CONCRETE MIX DESIGN. PROVIDE COPIES OF EACH CONCRETE MIX DESIGN TO THE SPECIAL INSPECTOR. NCLUDE THE FOLLOWING:

   A. TYPE AND QUANTITIES OF MATERIALS
   B. SLUMP
   C. AIR CONTENT
   D. FRESH UNIT WEIGHT
   E. AGGREGATES SIEVE ANALYSIS
   F. DESIGN COMPRESSIVE STRENGTH
   G. LOCATION OF PLACEMENT IN STRUCTURE
   H. METHOD OF PLACEMENT
   J. METHOD OF CURING
   K. SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS

4. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT THE MATERIALS MEET THE REQUIRMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.

5. SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY GRADE, QUANTITY, LOCATION, AND PLACEMENT OF REINFORCING STEEL PRIOR TO CONCRETE PLACEMENT.

2. EXAMINE CONCRETE IN TRUCK TO VERIFY THAT CONCRETE APPEARS PROPERLY MIXED.

3. PERFORM A SLUMP TEST AS DEEMED NECESSARY FOR EACH CONCRETE LOAD. RECORD IF WATER OR ADMIXTURES ARE ADDED TO THE CONCRETE AT THE JOB SITES. PERFORM ADDITIONAL SLUMP TESTS AFTER JOB SITE ADJUSTMENTS.

4. MOLD FOUR SPECIMENS PER SET FOR COMPRESSIVE STRENGTH TESTING; ONE SET FOR EACH 75 CUBIC YARDS OF EACH MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH SET MOLDED, RECORD:

   A. SLUMP
   B. AIR CONTENT
   C. UNIT WEIGHT
   D. TEMPERATURE, AMBIENT AND CONCRETE
   E. LOCATION OF PLACEMENT
   F. ANY PERTINENT INFORMATION, SUCH AS ADDITION OF WATER, ADDITION OF ADMIXTURERS, ETC.

   PERFORM ONE 7-DAY AND TWO 28-DAY COMPRESSIVE STRENGTH TESTS. (USE ONE AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTH'S DO NOT APPEAR ADEQUATE.)

5. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE AND CONCRETE PLACEMENT, NAME OF THE CONCRETE TESTING AGENCY, CONCRETE DESIGN COMPRESSIVE STRENGTH, LOCATION OF CONCRETE PLACEMENT IN STRUCTURE, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK.

6. MONITOR PLACEMENT OF STRUCTURAL LIGHTWEIGHT CONCRETE PLACED BY PUMPING.

7. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

★★ POST-INSTALLED ANCHOR BOLTS & REINFORCING STEEL IN CONCRETE & CONCRETE MASONRY

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MANUFACTURER's DATA FOR CONCRETE EXPANSION ANCHORS.

2. SUBMIT MANUFACTURER's DATA FOR ADHESIVE ANCHORING EPOXY.

3. SUBMIT MANUFACTURER'S DATA FOR MECHANICAL CONCRETE ANCHORS (CONCRETE SCREWS)

4. PROVIDE ICC EVALUATION SERVICE REPORT TO SPECIAL INSPECTOR FOR EACH TYPE OF POST INSTALLED ANCHOR USED ON THIS PROJECT.

5. NOTIFY THE INSPECTOR 24-HOURS IN ADVANCE THAT POST INSTALLED ANCHORS AND / OR REINFORCING STEEL ARE SCHEDULED TO BE INSTALLED AND REQUIRE INSPECTION.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY THAT INSTALLERS HAVE BEEN TRAINED BY A REPRESENTATIVE OF THE ANCHOR MANUFACTURER.

2. INSPECT ALL POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ICC EVALUATION SERVICE REPORT FOR THAT INDIVIDUAL ANCHOR.

3. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE MANUFACTURER AND / OR KENTUCKY BUILDING CODE.

NON-SHRINK GROUT UNDER STEEL BASE PLATES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL TEST REPORTS.

2. SUBMIT GROUT MANUFACTURER's DATA FOR TENSILE AND COMPRESSIVE SPLICERS.

3. SUBMIT A CERTIFICATION THE GROUT EACH MANUFACTURER OR SUPPLIER STATING THAT THE MATERIALS MEET THE REQUIRMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. COMPRESSIVE STRENGTHS TEST PER ASTM C109.

2. NUMBER OF TESTS: ONE TEST FOR EACH TEN BAGS OF GROUT USED OR MINIMUM OF ONE TEST FOR EACH DAY OF GROUTING. (NOTE: SEVEN GROUT CUBES ARE REQUIRED FOR ONE TEST – ONE CUBE TO BE USED AS A SPARE TO BE BROKEN AS DIRECTED BY THE STRUCTURAL ENGINEER IF COMPRESSIVE STRENGTH'S DO NOT APPEAR ADEQUATE.)

3. CUBE SIZES: 2-INCH x 2-INCH

4. TEST SCHEDULE: ONE CUBE AT 3 DAYS, TWO CUBES AT 7 DAYS, THREE CUBES AT 28 DAYS.

5. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

CONCRETE MASONRY

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT THE FOLLOWING MATERIALS COMPLY WITH THE SPECIFIED ASTM OR ACI STANDARDS.

   A. CONCRETE MASONRY UNITS
   B. MORTAR MATERIALS, PORTLAND CEMENT, HYDRATED LIME, AND AGGREGATES
   C. GROUT MATERIALS: PORTLAND CEMENT AND AGGREGATES
   D. JOINT REINFORCEMENT STEEL
   E. REINFORCING STEEL

2. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL USED IN CONCRETE MASONRY WALLS.

THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING:

1. VERIFY COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS, MORTAR, AND COARSE GROUT FOR EVERY 5,000 SQ. FT. OF SURFACE AREA AS FOLLOWS:

   A. THREE (3) CONCRETE MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH ASTM C140.
   B. SIX (6) MORTAR CUBE SPECIMENS SHALL BE TESTED, THREE (3) AT 7-DAYS AND THREE (3) AT 28-DAYS, IN ACCORDANCE WITH ASTM C109
   C. FOUR (4) COARSE GROUT SPECIMENS SHALL BE TESTED, TWO (2) AT 7-DAYS AND TWO (2) AT 28-DAYS, IN ACCORDANCE WITH ASTM C1019
   D. IN LIEU OF INDIVIDUAL TESTS OF MASONRY UNITS, MORTAR, AND GROUT, PERFORM ONE (1) PRISM TEST (WHICH CONSISTS OF THREE PRISMS) IN ACCORDANCE WITH ASTM E447

1. PROVIDE CONTINUOUS INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:

   A. CLEANLINESS OF GROUT SPACE PRIOR TO GROUTING
   B. PLACEMENT OF GROUT IN REINFORCED CELLS
   C. CONSOLIDATION AND RE-CONSOLIDATION OF GROUT
   D. PREPARATION OF REQUIRED GROUT AND MORTAR SPECIMENS
   E. WELDING OF REINFORCING BARS

3. PROVIDE PERIODIC INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:

   A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT
   B. CONSTRUCTION OF MORTAR JOINTS
   C. QUANTITY, SIZE, LOCATION, AND SUPPORT OF REINFORCING STEEL
   D. QUANTITY, SIZE, AND PLACEMENT OF HORIZONTAL JOINT REINFORCEMENT
   E. TYPE, SIZE AND LOCATION OF ANCHORS
   F. PROTECTION OF MASONRY DURING COLD OR HOT WEATHER.

4. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

STRUCTURAL STEEL

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

1. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHIN SPECIAL INSPECTIONS.

2. IF THE FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

3. SUBMIT CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.

4. SUBMIT MANUFACTURER's CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTING AND WELD FILLER MATERIALS.

SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING

1. PROVIDE CONTINUOUS INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:

   A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. ULTRASONICALLY INSPECT 100% OF THE COMPLETE PENETRATION WELDS.
   B. MULTI-PASS FILLET WELDS AND SINGLE-PASS FILLET WELDS GREATER THAN $\frac{5}{16}$"

2. PROVIDE PERIODIC INSPECTION TO VERIFY COMPLIANCE OF THE FOLLOWING:

   A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS
   B. MATERIAL VERIFICATION OF WELD FILLER MATERIAL
   C. VERIFICATION OF ANCHOR ROD SIZE, CONFIGURATION, AND EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE
   D. VISUALLY INSPECT ALL BOLTED CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRIOR TO VISUAL AND PHYSICAL TESTING, TENSION TESTING USING A CALIBRATION DEVICE (SKIDMORE-WILHELM) MUST INDICATE TENSIONS AT LEAST 0.5% IN EXCESS OF THE AISC MINIMUM. STRUCTURAL STEEL ERECTOR SHALL SUPPLY THE TENSION CALIBRATION DEVICE. TEST A MINIMUM OF 10% OF THE BOLTED CONNECTIONS
   E. VISUALLY INSPECT ALL FIELD-WELDED CONNECTIONS. VISUAL INSPECTION OF WELDED JOINTS INCLUDES PERIODIC EXAMINATION OF FITUP
   F. VERIFY STUD SHEAR CONNECTOR SPACING AND LOCATION. VISUALL INSPECT WELDING OF STUD SHEAR CONNECTORS.

3. WELD INSPECTIONS TO INCLUDE THE FOLLOWING

   A. WELD INSPECTIONS SHALL BE IN ACCORDANCE WITH AWS D1.1
   B. REVIEW AND VERIFY COMPLIANCE OF WRITTEN WELDING PROCEDURES WITH AWS REQUIREMENTS
   C. VERIFY THAT WELDING PROCEDURES ARE BEING ADHERED TO DURING FIELD WELDING.
   D. VERIFY WELDER QUALIFICATIONS
   E. USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF WELDS. THE INSPECTOR MAY USE GAMMA RAY, MAGNAFLUX, TREPANNING, SONICS OR ANY OTHER AID TO VISUAL INSPECTION THAT THE SPECIAL INSPECTOR MAY DEEM NECESSARY TO BE ASSURED OF THE ADEQUACY OF THE WELD
   F. KEEP A SYSTEMATIC RECORD OF ALL WELDS THAT INCLUDES, IN ADDITION TO OTHER REQUIRED RECORDS, THE IDENTIFICATION MARKS OF WELDERS, A LIST OF DEFECTIVE WELDS, AND THE MANNER OF CORRECTING DEFECTS.

4. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

STEEL JOIST

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.

2. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHIN SPECIAL INSPECTIONS.

3. IF THE FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

1. VISUAL INSPECTION OF BOLTED AND WELDED CONNECTIONS.

2. VERIFY INSTALLATION OF BRIDGING BRACES.

3. VERIFY CONNECTIONS FOR TOP AND BOTTOM CHORDS.

4. VERIFY REINFORCEMENT OF MEMBERS FOR CONCENTRATED LOADS.

5. VERIFY PROPER BEARING.

6. PERFORM ANY AND ALL OTHER TESTS THAT MAY BE REQUIRED BY THE KENTUCKY BUILDING CODE.

STEEL DECK

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.

2. SUBMIT CERTIFICATION THAT THE FABRICATOR IS REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM REQUIRED WORK WITHIN SPECIAL INSPECTIONS.

3. IF THE FABRICATOR IS NOT REGISTERED AND APPROVED, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED. SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS OF THE FOLLOWING:

1. VERIFY GENERAL ALIGNMENT AND DECK LAP.

2. VERIFY WELDS FOR SIZE AND PATTERN.

3. VERIFY SPACING AND TYPE OF SIDELAP ATTACHMENTS.

4. VERIFY INSTALLATION OF DECK CLOSURES.

COLD FORMED (LIGHT-GAUGE) FRAMING

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. SUBMIT MILL CERTIFICATION THAT THE SUPPLIED STEEL COMPLIES WITH THE SPECIFICATIONS.

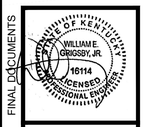
THE SPECIAL INSPECTOR SHALL PERFORM THE FOLLOWING

1. VERIFY THAT GENERAL ARRANGEMENT AND INSTALLATION OF LIGHT-GAUGE STEEL FRAMING IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. VERIFY THAT FRAMING MEMBERS AND CONNECTIONS ARE NOT DAMAGED.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS



PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

STRUCTURAL NOTES SPECIAL INSPECTIONS

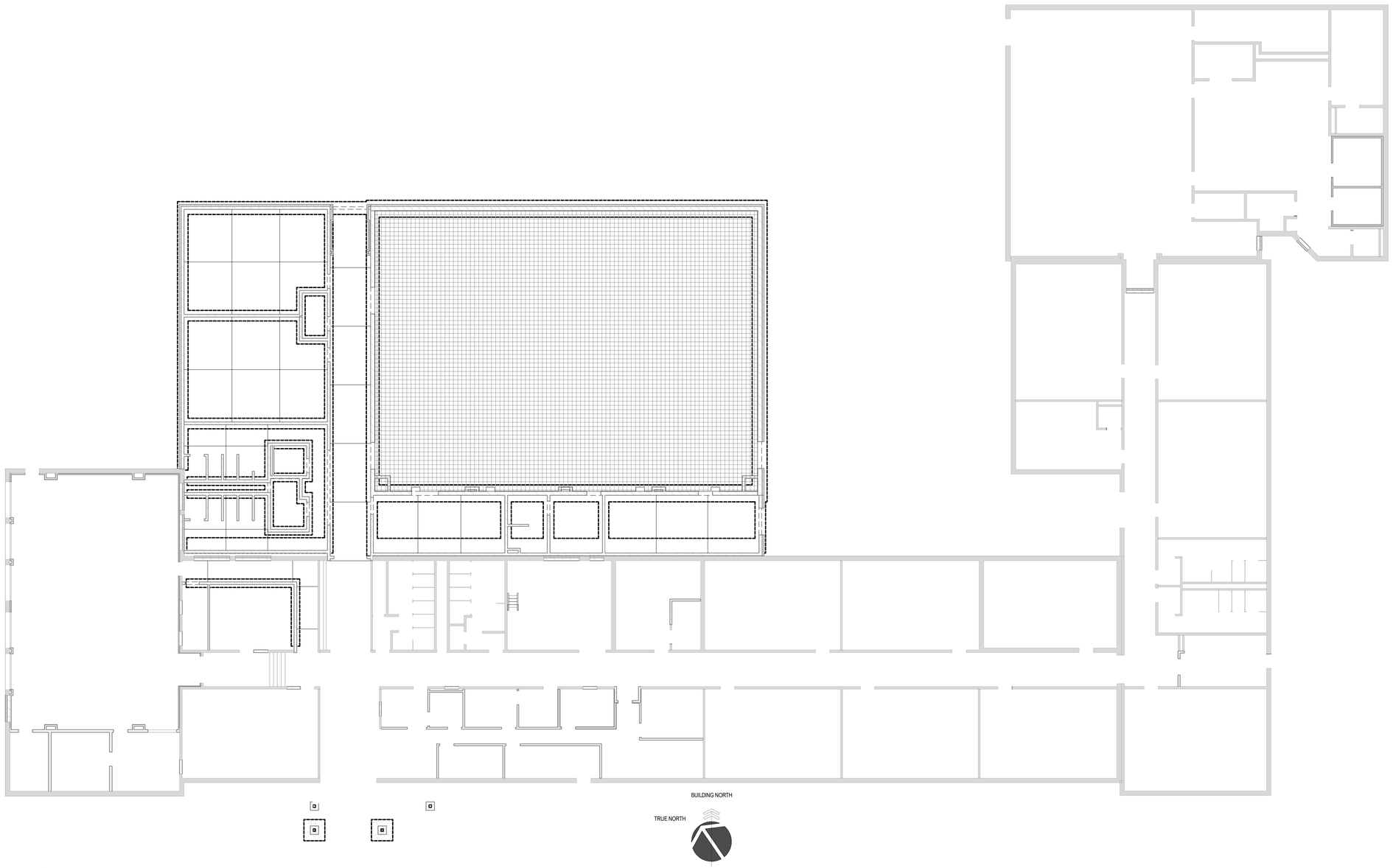
JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S0.3



1 OVERALL FOUNDATION PLAN
3/32" = 1'-0"

NOTES:

1. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES AND DEFINITIONS OF ABBREVIATIONS USED THROUGHOUT THESE DRAWINGS.

2. SEE SHEET S0.1 FOR STRUCTURAL DESIGN CRITERIA.

3. SEE SHEET S0.1 FOR GEOTECHNICAL DATA AND REQUIREMENTS ALONG WITH STRUCTURAL NOTES PERTAINING TO THE TESTING AND PREPARATION OF THE SUBGRADE FOR CONCRETE FLOOR SLABS ON GRADE AND BEARING STRATA FOR CONTINUOUS WALL FOOTINGS AND ISOLATED COLUMN FOOTINGS.

4. SEE SHEET S0.1 FOR STRUCTURAL NOTES PERTAINING TO CONCRETE MIX DESIGN, REINFORCING STEEL, AND REINFORCED CONCRETE CONSTRUCTION.

5. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO STRUCTURAL STEEL CONSTRUCTION, AS WELL AS CONSTRUCTION UTILIZING OPEN-WEB BAR JOIST AND METAL DECK.

6. SEE SHEET S0.3 FOR NOTES PERTAINING TO THE SPECIAL INSPECTIONS REQUIRED ON THIS PROJECT BY CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE (KBC).

7. "F#" DENOTES COLUMN FOOTING. SEE SHEET S2.0 FOR THE "ISOLATED COLUMN FOOTING SCHEDULE".

8. "W#" DENOTES WALL FOOTING. SEE SHEET S2.0 FOR THE "CONTINUOUS WALL FOOTING SCHEDULE.

9. "P#" DENOTES A REINFORCED CONCRETE PIER - RE "C/S2.2".

10. "C.J." DENOTES A SLAB "CONTROL JOINT" OR "CONSTRUCTION JOINT" - RE: "A/S2.0".

11. "F.S." DENOTES A FOOTING STEP - RE: "G/S2.0" - THE CONTRACTOR SHALL FIELD LOCATE AND FIELD DETERMINE REQUIRED DEPTH OF FOOTING STEPS BASED ON CONDITIONS ENCOUNTERED IN THE FIELD.

12. "MCXXXZ" DENOTES A MASONRY COLUMN OF "XXX" SIZE AND "Z" TYPE - RE: "B/S4.1".

13. PROVIDED ADDITIONAL REINFORCING AROUND OPENINGS IN ALL STRUCTURAL (REINFORCED) CONCRETE WALLS AND SLABS - RE: "B/S2.0".

14. PROVIDE ADDITIONAL REINFORCING REQUIRED AT ALL RE-ENTRANT CORNERS IN CONCRETE FLOOR SLABS ON GRADE - RE: "C/S2.0".

15. PROVIDE CORNER BARS IN CONCRETE WALLS AT ALL CORNERS AND WALL INTERSECTIONS - RE: "D/S2.0".

16. PROVIDE CORNER BARS IN CMU BOND BEAMS AT ALL CORNERS AND WALL INTERSECTIONS - RE: "C/S4.0".

17. ALL KEYWAYS INDICATED IN THE SECTIONS AND DETAILS SHALL BE 2x4 UNLESS NOTED OTHERWISE RE: "E/S2.0".

18. THE FIRST FLOOR CONCRETE FLOOR SLAB ON GRADE FOR THIS PROJECT SHALL BE CONSTRUCTED AT FINISH FLOOR ELEVATION TO MATCH EXISTING. RE: CIVIL DRAWINGS.

19. ALL FOOTING ELEMENTS SHALL BEAR ON COMPOTENT ROCK OR LIEN CONCRETE FILL TO ROCK. IF SUITABLE ROCK IS NOT ENCOUNTERED ATHE SPECIFIED BOTTOM OF FOOTING ELEVATION, THE CONTRACTOR SHALL TAKE REMEDIAL STEPS OUTLINED IN DETAIL "D/S2.2".

20. ALL FOUNDATIONS FOR THIS PROJECT SHALL BE CONSTRUCTED AT THE TOP OF FOOTING ELEVATIONS INDICATED ON THE PLANS - "T/FTG. EL." SHOWN ON PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL COORDINATE w/SITE DRAWINGS AND INFORM ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.

21. EXTERIOR WALL AND COLUMN FOUNDATIONS FOR THIS PROJECT SHALL BE CONSTRUCTED SUCH THAT THE TOP OF FOOTING ELEVATION IS 24" (MIN.) BELOW FINISH FLOOR ELEVATION OR 18" (MIN.) BELOW ADJACENT FINISH GRADE ELEVATIONS, WHICHEVER IS LOWER.

22. WHERE TOP OF FOOTING ELEVATION IS NOT PROVIDED, INTERIOR WALL FOUNDATIONS SHALL BE CONSTRUCTED SUCH THAT THE TOP OF FOOTING ELEVATION IS 8" (MIN.) BELOW FINISH FLOOR ELEVATION. INTERIOR WALL FOUNDATIONS THAT TIE INTO EXTERIOR WALL FOUNDATIONS SHALL BE CONSTRUCTED AT THE SAME TOP OF FOOTING ELEVATION AS THE EXTERIOR FOOTINGS. A FOOTING STEP (F.S.) SHALL BE PROVIDED TO TIE INTERIOR TO EXTERIOR FOOTING. AT CONTRACTOR's OPTION, INTERIOR WALL FOUNDATIONS MAY BE LOWERED AS NECESSARY FOR UNDERGROUND UTILITY CLEARANCE - RE: "J/S2.0". A FOOTING STEP SHALL BE PROVIDED AS REQUIRED TO TIE EXTERIOR FOUNDATIONS AS WELL AS OTHER FOOTINGS BEARING AT DIFFERENT DEPTHS - RE: "G/S2.0". THE CONTRACTOR SHALL FIELD LOCATE ALL FOOTING STEPS AND INDICATE STEP LOCATIONS ON THE FOUNDATION REINFORCING STEEL SHOP DRAWINGS.

23. THE CONCRETE FLOOR SLAB ON GRADE FOR THIS PROJECT SHALL BE 4" Thick OVER 4" (MIN.) COMPACTED GRANULAR BASE AND VAPOR BARRIER (RE: SPECIFICATIONS) - REINFORCING FOR THE CONCRETE FLOOR SLAB ON GRADE SHALL BE WWR 6x6-W2.9xW2.9 LOCATED AT 1 1/2" BELOW SLAB SURFACE. THE WELDED WIRE REINFORCEMENT (WWR) SHALL BE SUPPLIED IN SHEETS ONLY (NO ROLLS). WWR SHALL BE PROPERLY LOCATED AND SUPPORTED USING CHAIRS, BAR SUPPORTS OR BOLSTERS. EDGES AND ENDS OF THE WELDED WIRE REINFORCEMENT SHEETS SHALL BE LAPPED ONE (1) WIRE SPACING + 2".

24. PROVIDE BOND BREAKER CONSISTING OF TWO (2) LAYERS OF 15# CONSTRUCTION FELT OR SELF-ADHERED MEMBRANE BOND BREAKER BETWEEN CONCRETE FLOOR SLABS ON GRADE AND ALL CONCRETE AND CMU FOUNDATION WALLS - "A/S2.0".

25. THE CONTRACTOR SHALL COORDINATE UNDERGROUND UTILITIES WITH FOOTINGS AND FOUNDATION WALLS AND ENSURE THAT ADEQUATE CLEARANCE IS PROVIDED BETWEEN UTILITIES AND FOUNDATION ELEMENTS - RE" "J/S2.0" FOR ADDITIONAL INFORMATION WHERE PIPES, CONDUITS INTERFERE WITH FOUNDATION WALLS/FOOTINGS OR COLUMN FOUNDATIONS.

26. SEE DETAIL "B/S3.1" FOR ANCHOR BOLT DETAILS.

27. SEE DETAIL "E/S3.1" FOR COLUMN BASE PLATE DETAILS.

28. TUBE STEEL (HSS) COLUMNS FOR THIS PROJECT SHALL CONFORM TO ASTM A500 GRADE C. SEE THE FOUNDATION PLAN FOR COLUMN SIZES.

29. THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS (M.C.J.) IN ALL CMU WALLS. MASONRY CONTROL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NOTE No. 5-R ON SHEET S0.2 AS WELL AS DETAILS "A/S4.0" AND "D/S4.0". CONTRACTOR SHALL COORDINATE MCJ LOCATIONS WITH ARCHITECTURAL DRAWINGS.

30. ALL CMU WALLS (INCLUDING THOSE NOT SHOWN ON STRUCTURAL DRAWINGS) SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCING AS SPECIFIED IN NOTE No. 5.P ON SHEET S0.2.

31. ALL VERTICAL REINFORCING BARS FOR MASONRY (CMU) CONSTRUCTION (CMU WALLS AND COLUMNS) SHALL BE CONTINUOUS FROM TOP OF FOUNDATION TO TOP OF WALL AND SHALL BE FULLY DEVELOPED WITH MATCHING DOWELS OUT OF THE FOUNDATION (U.N.O.). BAR SPLICES FOR CMU CONSTRUCTION SHALL BE FORTY-EIGHT (48) DIAMETERS.

32. PROVIDE ADDITIONAL VERTICAL REINFORCING IN GROUTED SOLID CMU CELLS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS AS WELL AS AT THE END OF ALL WALLS AND AT ALL WALL OPENING JAMBS RE: "D/S4.1" - PROVIDE ADDITIONAL DOWELS OUT OF FOUNDATION TO MATCH EXTRA BARS.

33. FLOOR DRAINS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND INSTALLED PER M.E.P. DRAWINGS. SLOPE SLABS AS INDICATED WHERE SHOWN ON THE ARCHITECTURAL DRAWINGS. PROVIDE SLAB RECESS PER DETAIL "F/S2.0" AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

34. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. DIMENSIONAL DISCREPANCIES SHALL BE RECTIFIED PRIOR TO STARTING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KENTUCKY

OVERALL FOUNDATION PLAN

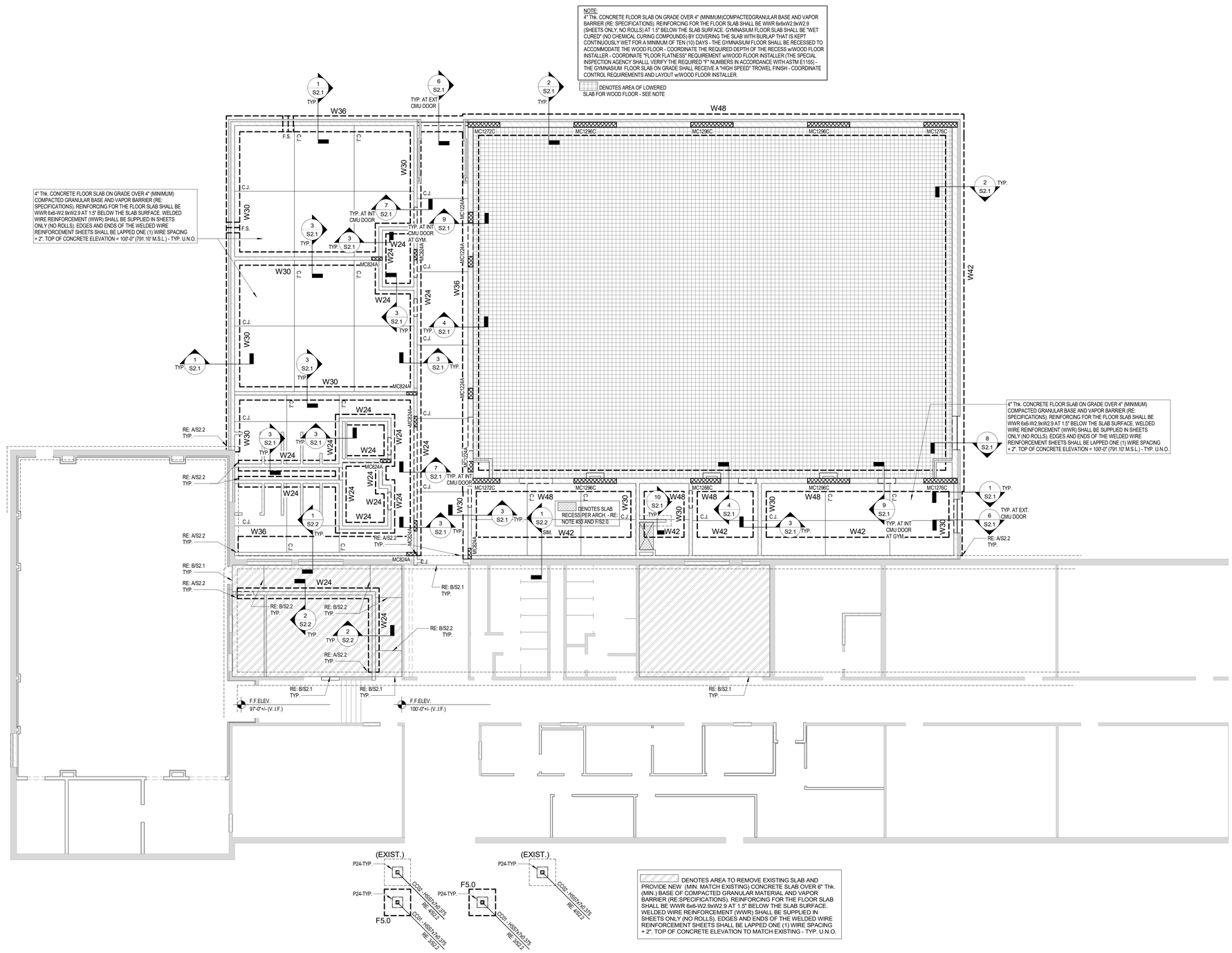
JOB NO.	1569
DATE	07/10/2019
DRAWN	DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S1.1



1 FOUNDATION PLAN
1/8" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KENTUCKY

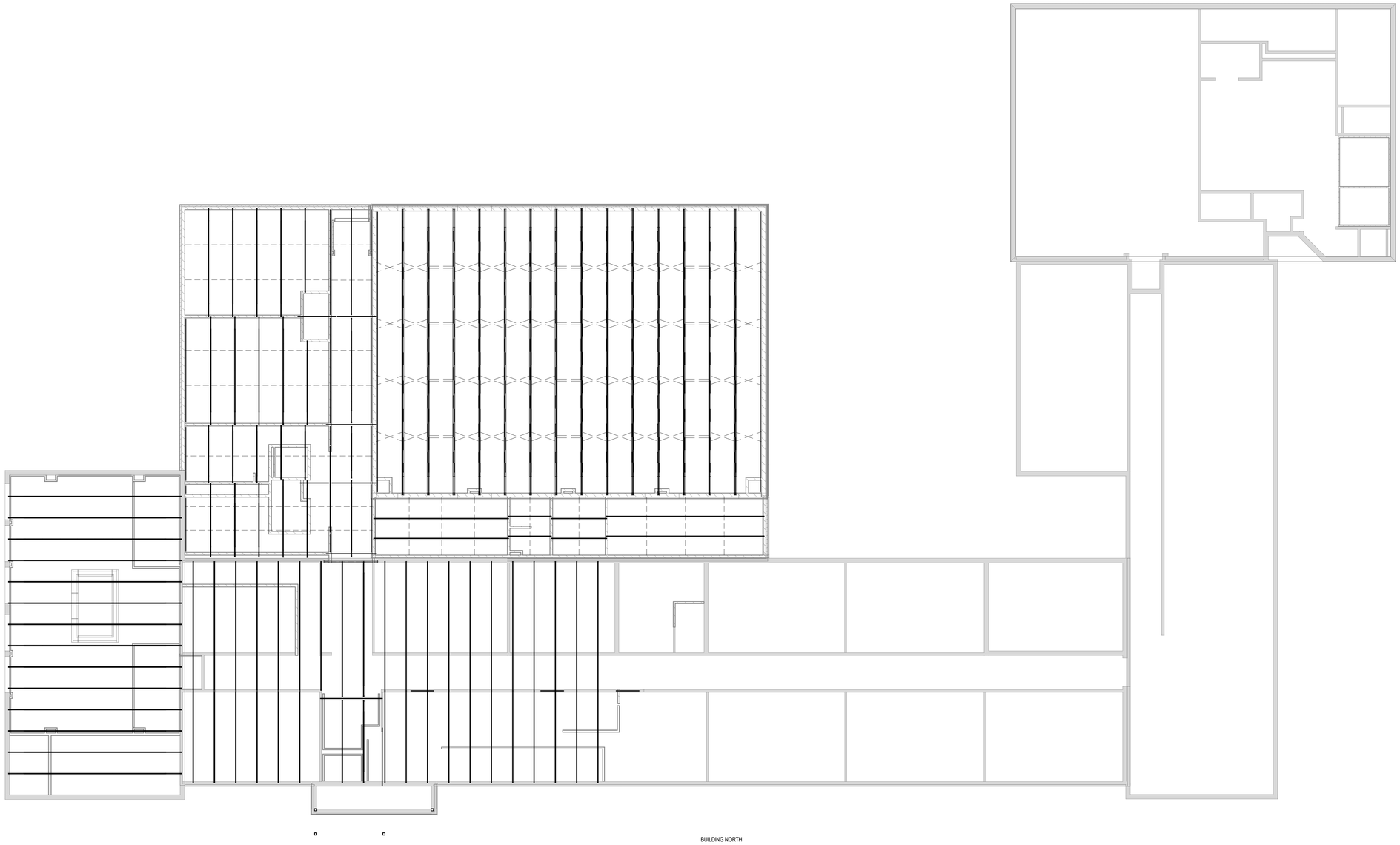
FOUNDATION PLAN

JOB NO.	1569
DATE	07/10/2019
DRAWN	DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET
S1.2



BUILDING NORTH

TRUE NORTH

1 OVERALL ROOF FRAMING PLAN
3/32" = 1'-0"

NOTES:

1. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES AND FOR ABBREVIATIONS USED THROUGHOUT THESE DRAWINGS.

2. SEE SHEET S0.1 FOR STRUCTURAL DESIGN CRITERIA.

3. SEE SHEET S0.1 FOR GEOTECHNICAL DATA AND REQUIREMENTS ALONG WITH STRUCTURAL NOTES PERTAINING TO THE TESTING AND PREPARATION OF THE SUBGRADE FOR CONCRETE FLOOR SLABS ON GRADE AND BEARING STRATA FOR CONTINUOUS WALL FOOTINGS AND ISOLATED COLUMN FOUNDATIONS.

4. SEE SHEET S0.1 FOR STRUCTURAL NOTES PERTAINING TO CONCRETE MIX DESIGN, REINFORCING STEEL, AND REINFORCED CONCRETE CONSTRUCTION.

5. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO REINFORCED CONCRETE MASONRY (CMU) CONSTRUCTION.

6. SEE SHEET S0.2 FOR STRUCTURAL NOTES PERTAINING TO STRUCTURAL STEEL CONSTRUCTION AS WELL AS CONSTRUCTION UTILIZING OPEN-WEB, STEEL BAR JOIST, METAL ROOF DECK.

7. SEE SHEET S0.3 FOR NOTES PERTAINING TO THE SPECIAL INSPECTIONS REQUIRED ON THIS PROJECT BY CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE (KBC).

8. SEE DETAIL A/S3.0 FOR ADDITIONAL INFORMATION REGARDING SUPPORTING CONCENTRATED LOADS ON OPEN-WEB STEEL BAR JOIST.

9. THE CONTRACTOR SHALL COORDINATE RTU WEIGHTS AND LOCATIONS BETWEEN BAR JOIST SUPPLIER AND ALL M.E.P. SUB-CONTRACTORS.

10. SEE DETAIL B/S3.0 FOR ADDITIONAL INFORMATION REGARDING SUPPORTING ROOF TOP MECHANICAL UNITS (RTU) ON OPEN-WEB STEEL BAR JOISTS.

NOTES: CONTINUED

11. SEE DETAIL C/S3.0 FOR ADDITIONAL INFORMATION REGARDING ANGLE FRAMES REQUIRED FOR OPENINGS IN THE METAL ROOF DECK.

12. SEE DETAIL D/S3.0 FOR ADDITIONAL INFORMATION REGARDING HORIZONTAL BRIDGING FOR OPEN-WEB STEEL BAR JOISTS.

13. SEE DETAIL G/S3.0 FOR ADDITIONAL INFORMATION REGARDING ATTACHMENT OF OPEN-WEB STEEL BAR JOISTS TO THE SUPPORTING STRUCTURE.

14. SEE DETAIL C/S3.1 FOR MORE INFORMATION REGARDING BRICK LINTEL ANGLES.

15. SEE SHEETS S3.0 FOR STEEL BEAM SCHEDULE.

16. SEE DETAIL K/S3.1 AND ACCOMPANYING SCHEDULE FOR CONNECTION DETAILS WHERE STEEL BEAMS FRAME INTO STEEL COLUMNS AND/OR OTHER STEEL BEAMS.

17. TUBE STEEL COLUMNS (HSS) FOR THIS PROJECT SHALL CONFORM TO ASTM A500, GRADE C - SEE FOUNDATION PLAN FOR COLUMN SIZES.

18. SEE DETAIL A/S3.1 FOR BEAM TO COLUMN CONNECTION WHERE STEEL BEAM IS INDICATED TO BE CONTINUOUS OVER TOP OF TUBE STEEL COLUMN.

19. THE MASON SHALL PROVIDE MASONRY CONTROL JOINTS (M.C.J.) SPACED AT 24'-0" (MAXIMUM) CENTERS. MASONRY CONTROL JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL D/S4.0 AND NOTE No. 5-R ON SHEET S0.2. SEE DETAIL A/S4.0 FOR MORE INFORMATION REGARDING MASONRY CONTROL JOINT (M.C.J.) LAYOUT. THE CONTRACTOR SHALL COORDINATE MCJ LOCATIONS w/ARCHITECTURAL DRAWINGS.

NOTES: CONTINUED

20. LETTERS IN HEXAGONS (A) DENOTE GROUTED SOLID, REINFORCED MASONRY (CMU) HEADER BEAMS OVER WALL OPENINGS IN THE MASONRY (CMU) WALLS. SEE DETAILS A/S4.0 AND B/S4.0 FOR ADDITIONAL INFORMATION. THE REINFORCING STEEL DETAILER SHALL DETAIL ALL MASONRY HEADER BEAMS ON THE REINFORCING STEEL SHOP DRAWINGS. SEE SCHEDULE ON S4.0 FOR MASONRY HEADER REINFORCING.

21. NUMEROUS HVAC AND MECHANICAL WALL OPENINGS AND PENETRATIONS ARE REQUIRED THROUGH CONCRETE MASONRY (CMU) WALLS ON THIS PROJECT. THE CONTRACTOR SHALL COORDINATE THE EXACT SIZE AND LOCATION OF ALL WALL OPENINGS BETWEEN THE MASON AND ALL OTHER TRADES REQUIRING WALL PENETRATIONS. MASON CONTRACTOR SHALL CONSTRUCT THE REQUIRED HEADERS IN CMU WALLS OVER OPENINGS PER DETAILS A/S4.0 AND THE HEADER SCHEDULES ON SHEET S4.0.

22. WHERE OPENINGS IN MASONRY WALLS ARE INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS, PROVIDE A REINFORCED MASONRY HEADER PER THE APPLICABLE DETAILS REFERENCED HEREIN. HEADER BEAM REINFORCING DETAILS SHALL BE FOR THE OPENING IN THE SCHEDULE THAT IS MOST SIMILAR TO THE OPENING IN QUESTION.

23. PROVIDE STEEL BEARING PLATES PER DETAIL C/S4.1 UNDER ALL OPEN-WEB STEEL BAR JOISTS BEARING ON MASONRY WALLS.

24. PROVIDE BEARING PLATES PER DETAIL A/S4.1 AND SECTION 1/S4.1 FOR ALL STEEL BEAMS INDICATED TO BE SUPPORTED BY MASONRY WALLS OR MASONRY COLUMNS (MC) - RE: B/S4.1 FOR DETAILS REGARDING MASONRY COLUMNS (MC) UNDER STEEL BEAM - RE: BEAMS SCHEDULE FOR BEARING PLATE SIZE.

25. SEE SECTION 2/S4.1 FOR ADDITIONAL INFORMATION WHERE MASONRY (CMU) WALLS ARE INDICATED TO BE SUPPORTED ON STEEL BEAMS.

NOTES: CONTINUED

26. SEE SECTION 3/S4.1 FOR ADDITIONAL INFORMATION WHERE STEEL BEAM IS INDICATED TO BE CONTINUOUS OVER TOP OF A MASONRY COLUMN (MC) OR MASONRY WALL.

27. ALL CMU WALLS (INCLUDING THOSE NOT SHOWN ON STRUCTURAL DRAWINGS) SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCING AS SPECIFIED IN NOTE 5-P ON SHEET S0.2.

28. PROVIDE ADDITIONAL VERTICAL REINFORCING IN GROUTED CMU CELLS AT ALL MASONRY WALL CORNERS AND INTERSECTIONS AS WELL AS AT THE END OF ALL WALLS AND ALL WALL OPENING JAMBS PER DETAIL D/S4.1. PROVIDE ADDITIONAL DOWELS OUT OF FOUNDATION TO MATCH EXTRA BARS.

29. PROVIDE BOND BREAKER CONSISTING OF TWO (2) LAYERS 0F 15# CONSTRUCTION FELT OR SELF-ADHERED MEMBRANE BOND BREAKER BETWEEN CONCRETE FLOOR SLABS ON GRADE AND CMU WALLS.

30. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. DIMENSIONAL DISCREPANCIES SHALL BE RECTIFIED PRIOR TO STARTING CONSTRUCTION.

31. NUMBERS IN HEXAGONS (1) DENOTE NEW STEEL BEAM HEADER IN EXISTING CMU WALL - SEE DETAIL A/S4.2, SECTION 1/S4.2 AND ACCOMPANYING SCHEDULE FOR ADDITIONAL INFORMATION.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KENTUCKY

OVERALL ROOF FRAMING PLAN

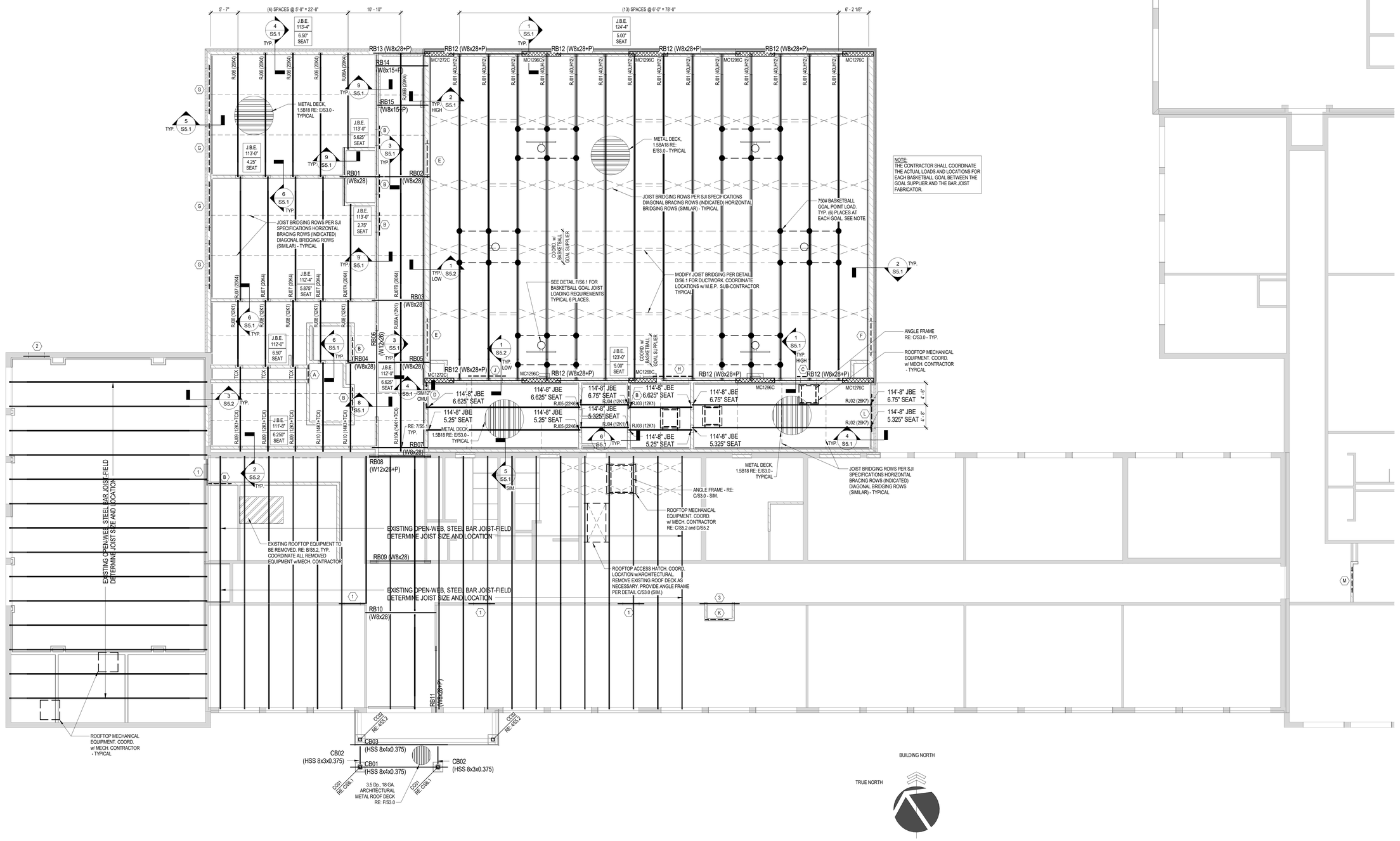
JOB NO.	1569
DATE	07/10/2019
DRAWN	DEM
CHECKED	WEG/BKL

REVISIONS

No.	Description	Date

SHEET

S1.3



1 ROOF FRAMING PLAN
1/8" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY WILLIAM E. GRIGSBY, JR. 16114 LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KENTUCKY

ROOF FRAMING PLAN

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S1.4

ISOLATED COLUMN FOOTING SCHEDULE

FOOTING MARK No.	FOOTING SIZE	REINFORCING FOR ONE (1) FOOTING		REMARKS
		TOP BARS	BOTTOM BARS	
F5.0	5'-0"x 5'-0"x 1'-0" Thick	NONE REQUIRED	(6) #5 BARS, E.W.	

NOTES:

1. THE ISOLATED COLUMN FOOTINGS DETAILED IN THIS SCHEDULE ARE BASED THE ALLOWABLE SOIL BEARING PRESSURE (q) SPECIFIED ON S0.1 (REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION).

2. "E.W." DENOTES THAT THE SIZE AND QUANTITY OF BARS SPECIFIED ARE TO BE PROVIDE "EACH WAY" IN THE FOOTING.

3. THE "Long" DESIGNATION DENOTES THE THE SIZE AND QUANTITY OF BARS SPECIFIED ARE TO BE PROVIDE IN THE "LONG" DIMENSION OF A RECTANGULAR FOOTING.

4 THE "Short" DESIGNATION DENOTES THE THE SIZE AND QUANTITY OF BARS SPECIFIED ARE TO BE PROVIDE IN THE "SHORT" DIMENSION OF A RECTANGULAR FOOTING.

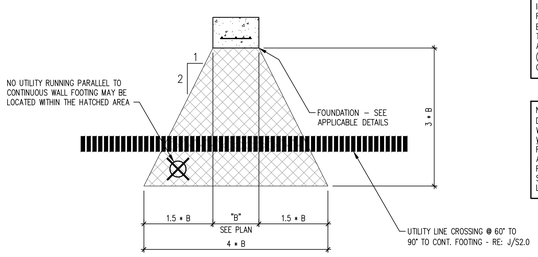
CONTINUOUS WALL FOOTING SCHEDULE

FOOTING MARK No.	FOOTING SIZE	REINFORCING FOR ONE (1) FOOTING		REMARKS
		TOP BARS	BOTTOM BARS	
W24	CONT. 2'-0" Wide x 1'-0" Thick	NONE REQUIRED	(3) CONT. #4 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W30	CONT. 2'-6" Wide x 1'-0" Thick	NONE REQUIRED	(3) CONT. #4 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W36	CONT. 3'-0" Wide x 1'-0" Thick	NONE REQUIRED	(4) CONT. #5 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W42	CONT. 3'-6" Wide x 1'-0" Thick	NONE REQUIRED	(4) CONT. #5 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	
W48	CONT. 4'-0" Wide x 1'-0" Thick	NONE REQUIRED	(5) CONT. #6 BARS, Longit. #5 BARS @ 12" CTRS., Trans.	

NOTES:

THE CONTINUOUS WALL FOOTINGS DETAILED IN THIS SCHEDULE ARE BASED ON THE ALLOWABLE SOIL BEARING PRESSURE (q) SPECIFIED ON S0.1 (REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION).

1. FOOTINGS w/ "WXX-*" MARK NUMBERS HAVE BEEN WIDENED TO ACCOMMODATE WALL GEOMETRY (SEE PLAN).

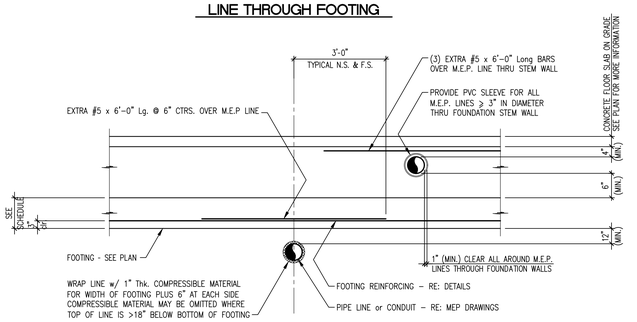


M.E.P. LINE UNDER FOUNDATION WALL / FOOTING

TYPICAL DETAIL - FOUNDATION AT M.E.P. LINES
SCALE: 1/2" = 1'-0" — H / S2.0

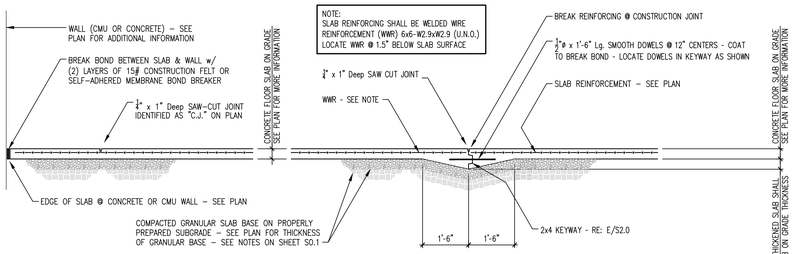
NOTE:
THE CONTRACTOR SHALL COORDINATE BETWEEN THE CONCRETE INSTALLER AND THE M.E.P. SUB-CONTRACTOR AND LOWER WALL FOOTINGS AS NECESSARY TO ALLOW UNDERGROUND UTILITIES TO ENTER / EXIT THE BUILDING WITH 6" (MIN.) CLEARANCE BETWEEN THE TOP OF FOOTING AND BOTTOM OF UNDERGROUND UTILITY. ALTERNATIVELY, THE UNDERGROUND UTILITY MAY BE LOWERED (IF ACCEPTABLE TO THE M.E.P. ENGINEER) SUCH THAT THE TOP OF CONDUIT / PIPE IS 12" (MIN.) BELOW BOTTOM OF FOOTING.

NOTE:
DETAILS J/S2.0 & H/S2.0 PROVIDE INFORMATION FOR DEALING WITH INTERFERENCES BETWEEN UNDERGROUND M.E.P. LINES AND WALL FOOTINGS - M.E.P. LINES MAY NOT RUN UNDER COLUMN FOOTINGS - WHERE INTERFERENCES BETWEEN COLUMN FOOTINGS AND M.E.P. LINES OCCUR, RE-ROUTE UTILITY OR LOWER COLUMN FOOTING TO ALLOW M.E.P. LINE TO PASS OVER TOP OF FOOTING SEE FOUNDATION DETAILS FOR MORE INFORMATION REGARDING LOWER COLUMN FOOTINGS PER THIS NOTE.



M.E.P. LINE UNDER FOUNDATION WALL / FOOTING

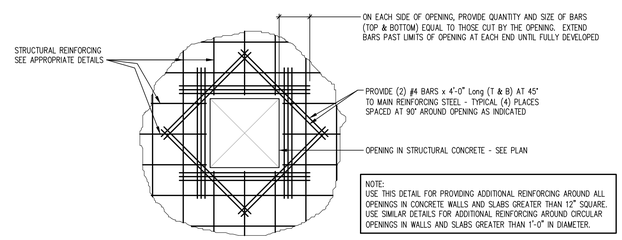
TYPICAL DETAIL - FOUNDATION AT M.E.P. LINES
SCALE: 1/2" = 1'-0" — J / S2.0



TYPICAL SLAB CONTROL JOINT (C.J.)

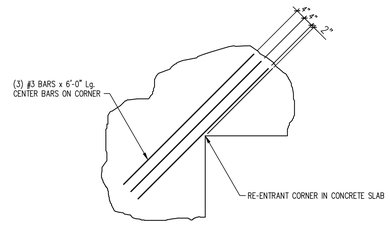
TYPICAL SLAB CONSTRUCTION JOINT (C.J.)

TYPICAL DETAIL - CONCRETE SLAB JOINTS
SCALE: 1/2" = 1'-0" — A / S2.0



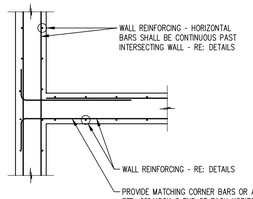
ADDITIONAL REINFORCING AT OPENINGS IN STRUCTURAL CONCRETE

TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — B / S2.0

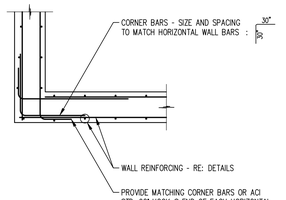


REINFORCING FOR RE-ENTRANT CORNERS IN SLABS

TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — C / S2.0

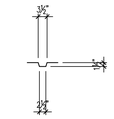


CONCRETE WALL INTERSECTION



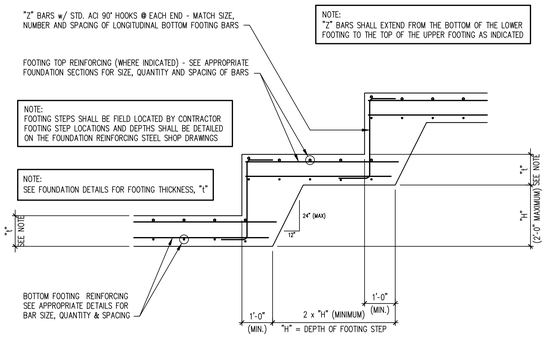
CONCRETE WALL CORNER

TYPICAL DETAIL - CORNER BARS
SCALE: 1/2" = 1'-0" — D / S2.0

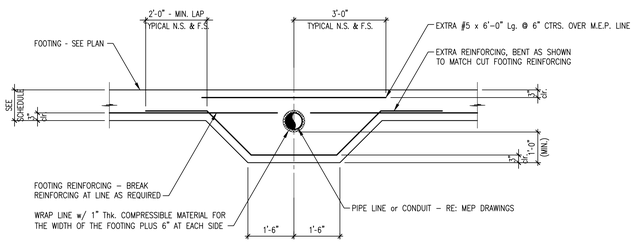


2x4 KEY IN CONCRETE

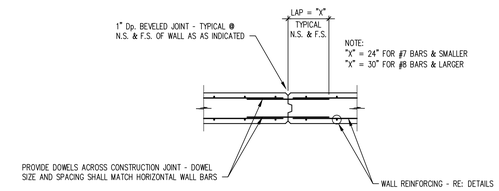
TYPICAL DETAIL
SCALE: 1/2" = 1'-0" — E / S2.0



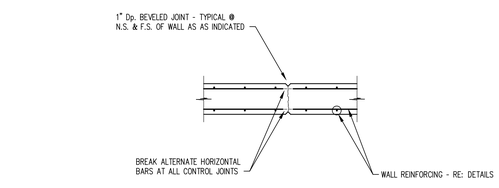
TYPICAL DETAIL - FOOTING STEP
SCALE: 1/2" = 1'-0" — G / S2.0



LINE THROUGH FOOTING



CONSTRUCTION JOINT



CONTROL JOINT

TYPICAL DETAIL - CONCRETE WALL JOINTS
SCALE: 1/2" = 1'-0" — K / S2.0

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS - ALL MAY NOT APPLY TO THIS PROJECT

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY — WILLIAM E. GRIGSBY, JR. — 16114 — LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

TYPICAL CONCRETE DETAILS + FOUNDATION SCHEDULES

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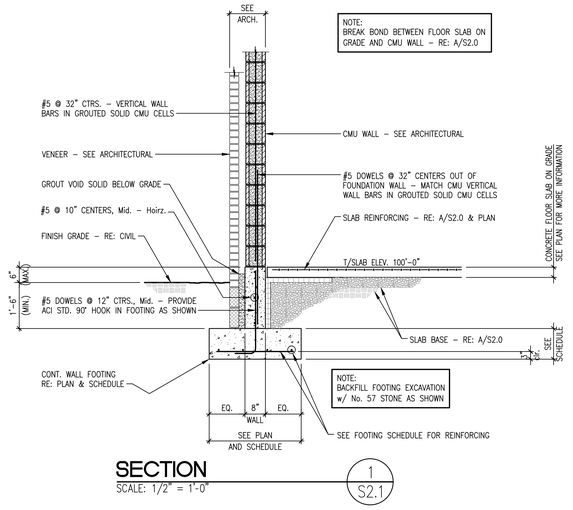
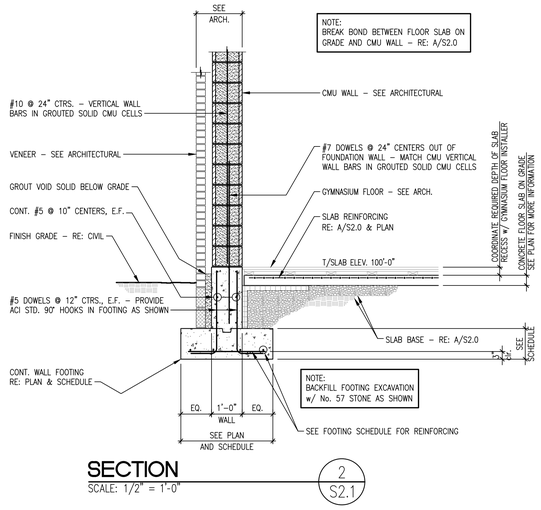
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



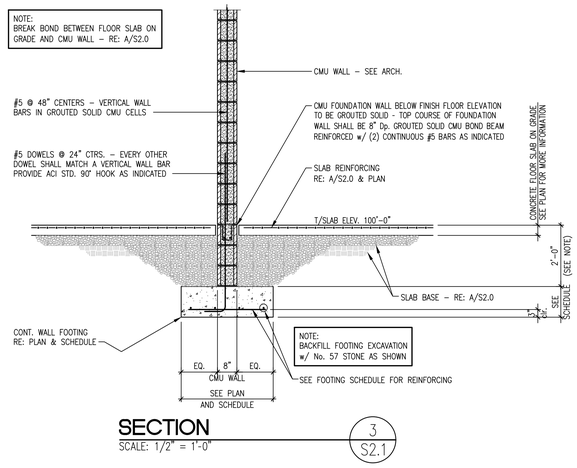
SECTION
SCALE: 1/2" = 1'-0"

1 S2.1



SECTION
SCALE: 1/2" = 1'-0"

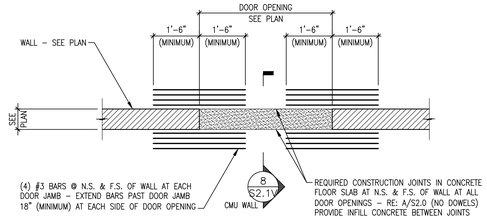
2 S2.1



SECTION
SCALE: 1/2" = 1'-0"

3 S2.1

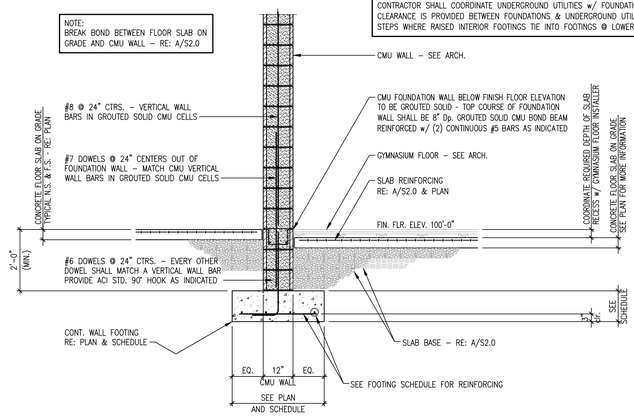
NOTE: WHERE DOOR OPENING IS 3'-0" Wd. OR LESS, (4) CONT. #3 BARS SHALL BE PROVIDED AT EACH SIDE OF WALL



DETAIL
SCALE: 1/2" = 1'-0"

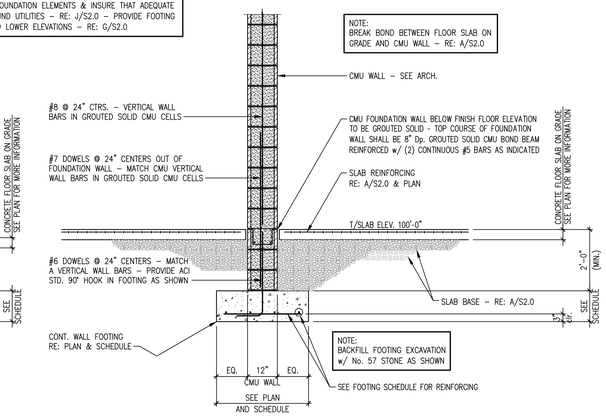
A S2.1

NOTE: INTERIOR CMU WALL FOOTINGS SHALL BE CONSTRUCTED AT THE TOP OF FOOTING ELEVATION INDICATED HEREIN (RE: 3/S2.1, 4/S2.1 & 5/S2.1) – WHERE NO ELEVATION IS PROVIDED, TOP OF FOOTING SHALL BE 24" (MIN.) BELOW ADJACENT FLOOR SLAB – AT THE CONTRACTOR'S OPTION, INTERIOR WALL FOOTINGS MAY BE RAISED TO TOP OF FOOTING @ 8" (MIN.) BELOW TOP OF ADJACENT FLOOR SLAB - IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SHALL COORDINATE UNDERGROUND UTILITIES w/ FOUNDATION ELEMENTS & INSURE THAT ADEQUATE CLEARANCE IS PROVIDED BETWEEN FOUNDATIONS & UNDERGROUND UTILITIES – RE: 1/S2.0 – PROVIDE FOOTING STEPS WHERE RAISED INTERIOR FOOTINGS TIE INTO FOOTINGS @ LOWER ELEVATIONS – RE: G/S2.0



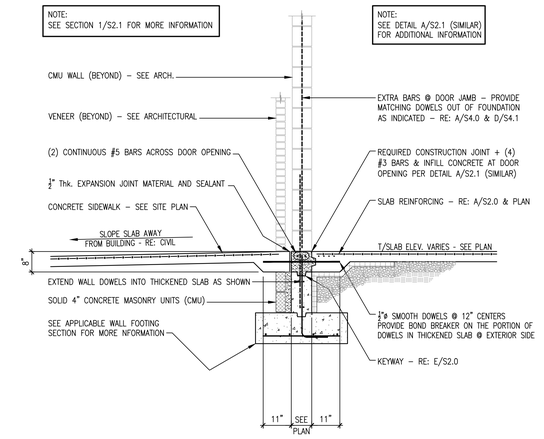
SECTION
SCALE: 1/2" = 1'-0"

4 S2.1



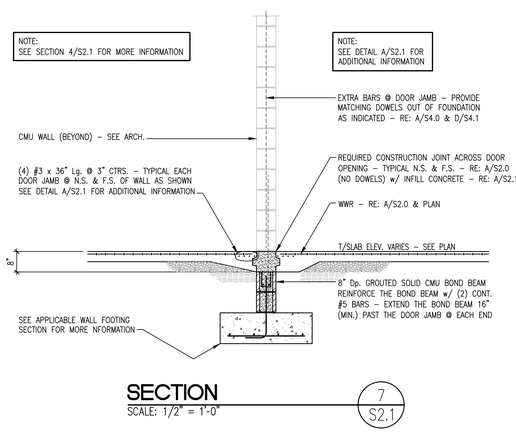
SECTION
SCALE: 1/2" = 1'-0"

5 S2.1



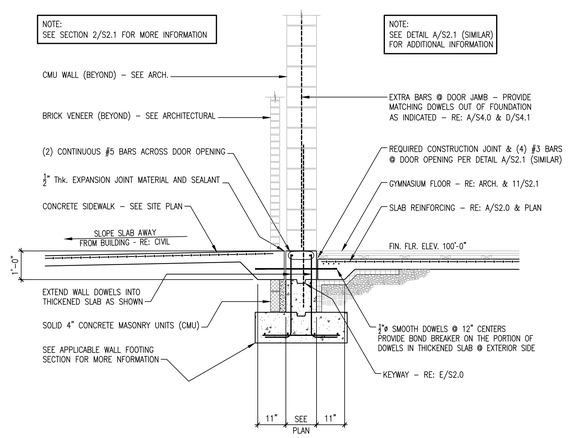
SECTION
SCALE: 1/2" = 1'-0"

6 S2.1



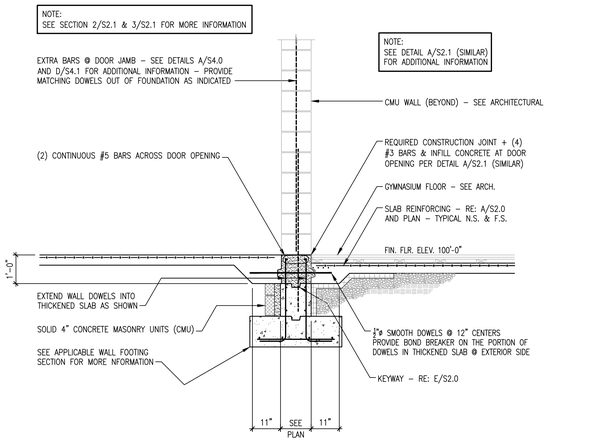
SECTION
SCALE: 1/2" = 1'-0"

7 S2.1



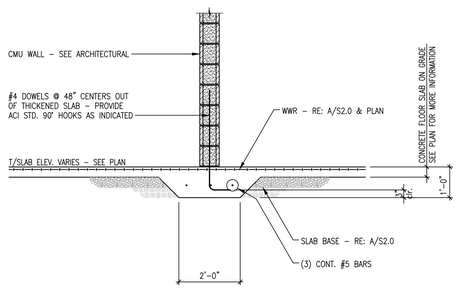
SECTION
SCALE: 1/2" = 1'-0"

8 S2.1



SECTION
SCALE: 1/2" = 1'-0"

9 S2.1

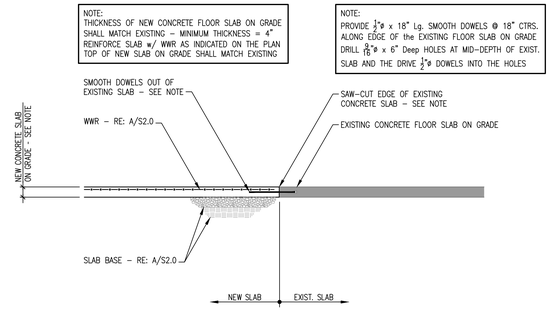


SECTION
SCALE: 1/2" = 1'-0"

10 S2.1

NOTE: THICKNESS OF NEW CONCRETE FLOOR SLAB ON GRADE SHALL MATCH EXISTING – MINIMUM THICKNESS = 4" REINFORCE SLAB w/ WWR AS INDICATED ON THE PLAN TOP OF NEW SLAB ON GRADE SHALL MATCH EXISTING

NOTE: PROVIDE ¾"ø x 18" Lg. SMOOTH DOWELS @ 18" CTRS. ALONG EDGE OF the EXISTING FLOOR SLAB ON GRADE DRILL ⅝"ø x 6" Deep HOLES AT MID-DEPTH OF EXIST. SLAB AND THE DRIVE ¾"ø DOWELS INTO THE HOLES



DETAIL
SCALE: 1/2" = 1'-0"

B S2.1

SHERMAN CARTER BARNHART ARCHITECTS

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FOUNDATION SECTIONS + DETAILS

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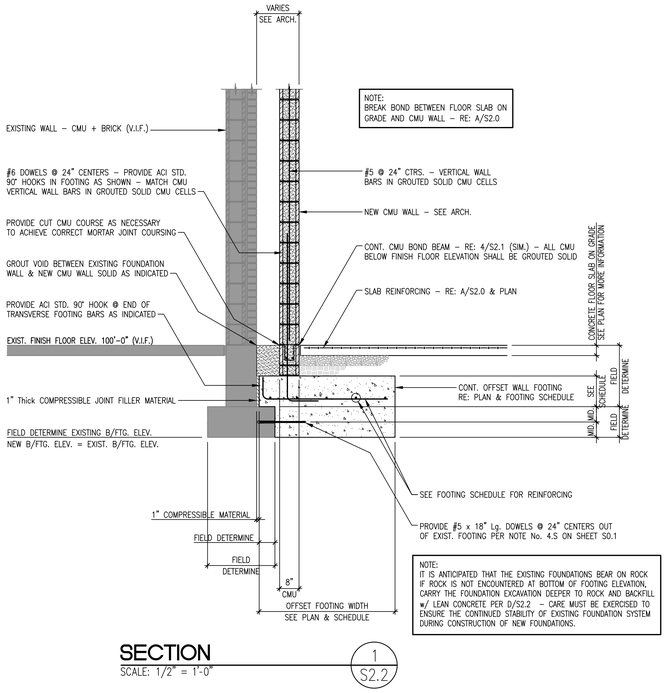
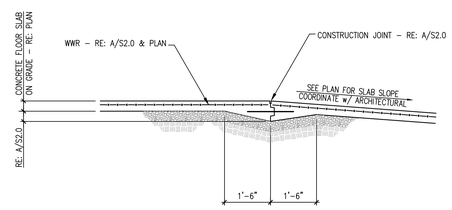
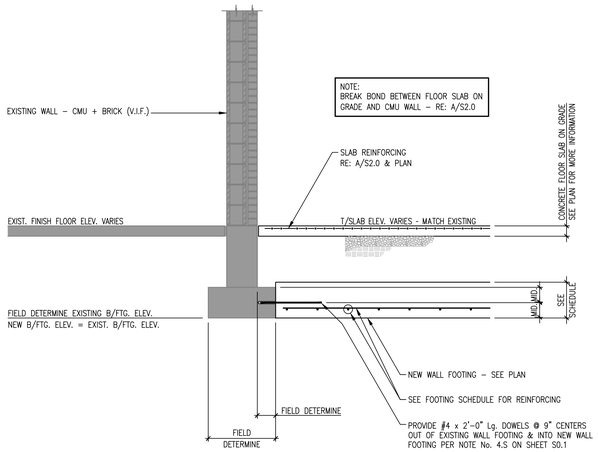


SECTION
SCALE: 1/2" = 1'-0"
1 S2.2



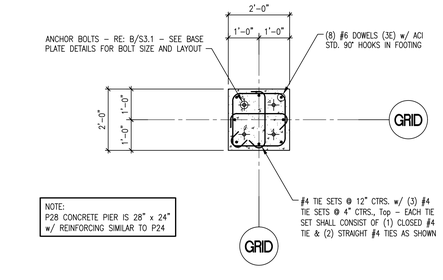
STAGE RAMP

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
B S2.2



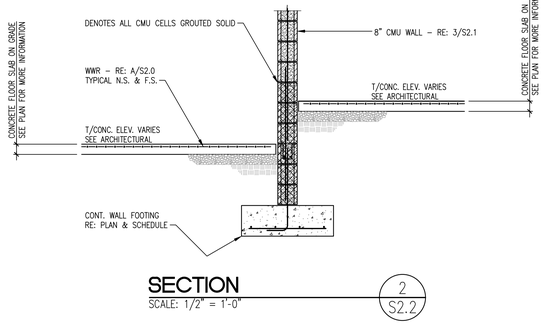
NEW FOOTING TO EXISTING FOOTING

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
A S2.2

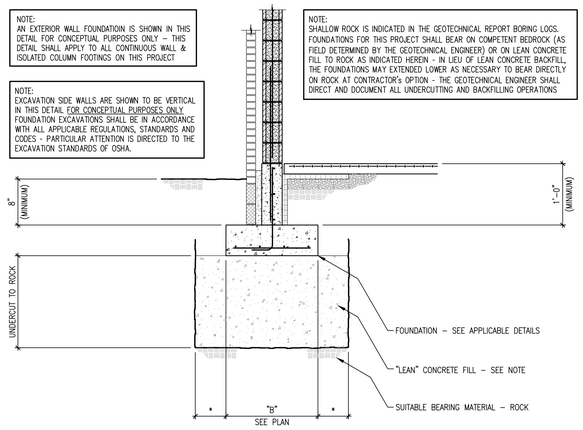


COLUMN PIER P24
24" SQUARE PIER

DETAIL
SCALE: 1/2" = 1'-0"
C S2.2

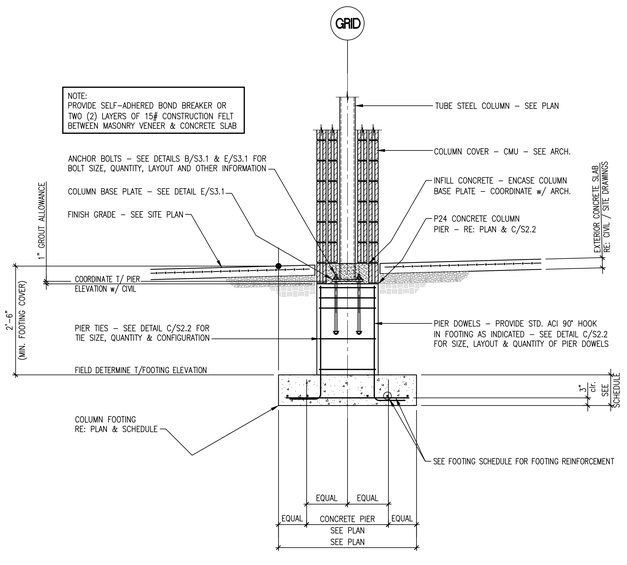


SECTION
SCALE: 1/2" = 1'-0"
2 S2.2

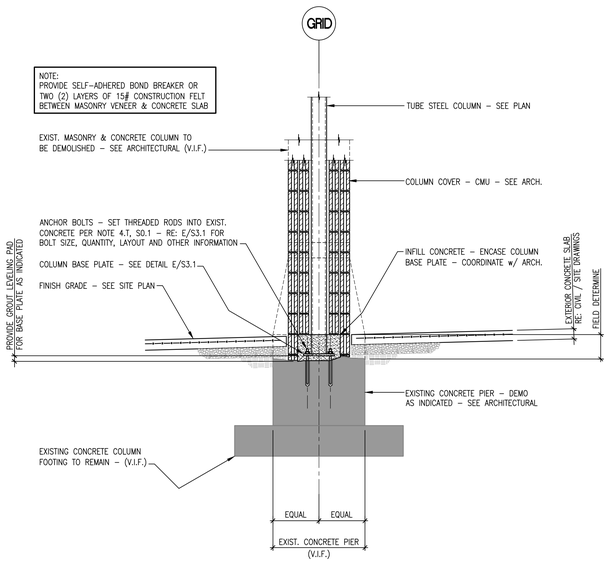


FOUNDATION UNDERCUT - LEAN CONCRETE FILL TO ROCK

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
D S2.2



SECTION
SCALE: 1/2" = 1'-0"
3 S2.2



SECTION
SCALE: 1/2" = 1'-0"
4 S2.2

SHERMAN CARTER BARNHART
ARCHITECTS

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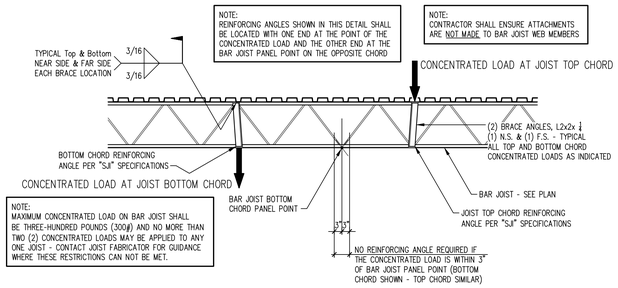
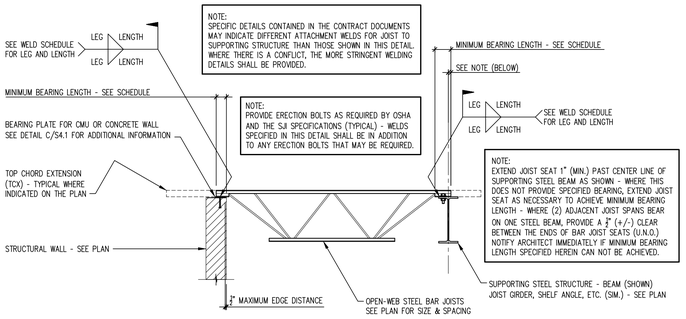


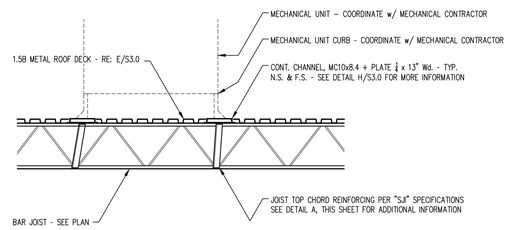
REINFORCING FOR BAR JOIST CHORDS UNDER CONCENTRATED LOADS

TYPICAL DETAIL A / S3.0
SCALE: 1/2" = 1'-0"



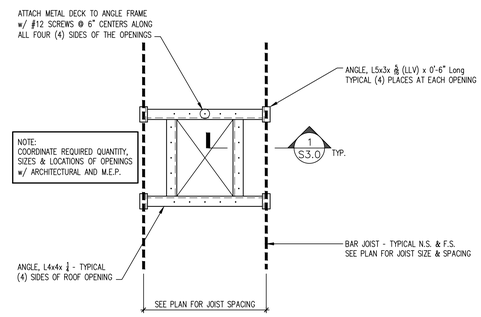
JOIST TO SUPPORTING STRUCTURE ATTACHMENT DETAIL

TYPICAL DETAIL G / S3.0
SCALE: 1/2" = 1'-0"



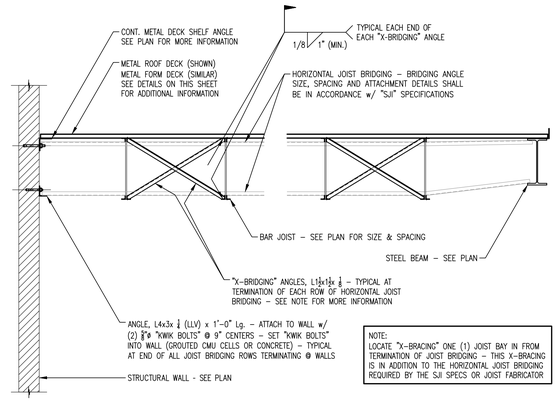
ROOFTOP HVAC SUPPORT FRAMING

TYPICAL DETAIL B / S3.0
SCALE: 1/2" = 1'-0"



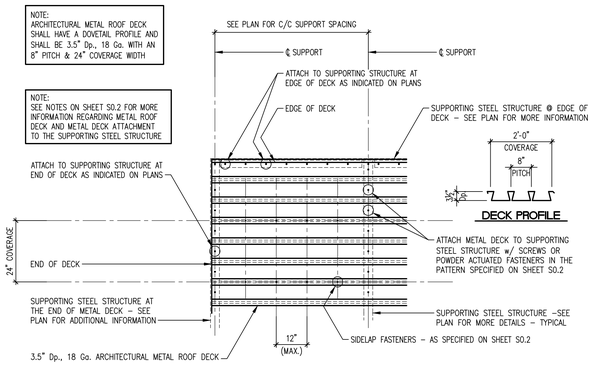
ANGLE FRAME FOR OPENINGS IN ROOF DECK + FORM DECK

TYPICAL DETAIL C / S3.0
SCALE: 1/2" = 1'-0"



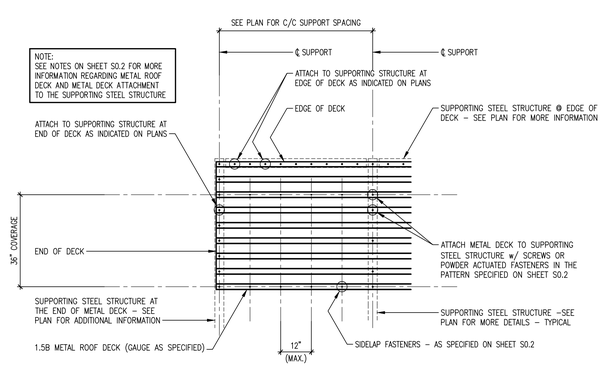
JOIST BRIDGING TERMINATION DETAIL

TYPICAL DETAIL D / S3.0
SCALE: 1/2" = 1'-0"



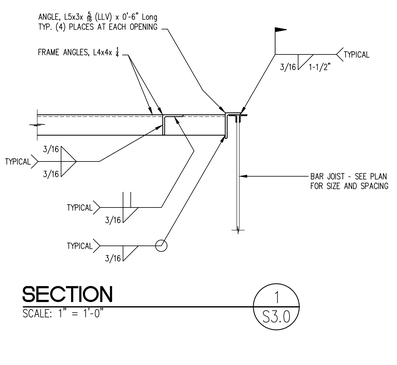
ARCHITECTURAL METAL ROOF DECK FASTENER PATTERN

TYPICAL DETAIL F / S3.0
SCALE: 1/2" = 1'-0"



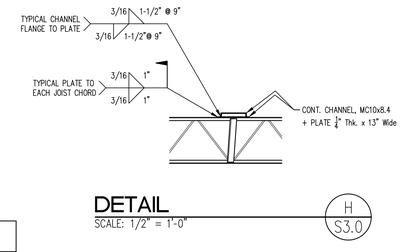
1.5B METAL ROOF DECK FASTENER PATTERN

TYPICAL DETAIL E / S3.0
SCALE: 1/2" = 1'-0"



SECTION

SECTION 1 / S3.0
SCALE: 1" = 1'-0"



DETAIL

DETAIL H / S3.0
SCALE: 1/2" = 1'-0"

JOIST WELD SCHEDULE

JOIST SERIES	LEG	LENGTH	BEARING LENGTH	REMARKS
"K" SERIES	1/8"	3"	4" CMU - 2 1/2" STEEL	RE: ANSI SJI-K-2010
"LH" SERIES 02 - 06	3/16"	3"	6" CMU - 4" STEEL	RE: ANSI SJI-LH/DLH-2010
"LH"/"DLH" SERIES 07 - 17	1/4"	3"	6" CMU - 4" STEEL	RE: ANSI SJI-LH/DLH-2010
"LH"/"DLH" SERIES 18 - 25	1/4"	4"	6" CMU - 6" STEEL	RE: ANSI SJI-LH/DLH-2010
JOIST GIRDERS w/ 7 1/2" Dp. SEAT	5/16"	4"	6" CMU - 4" STEEL	RE: ANSI SJI-JG-2010
JOIST GIRDERS w/ 10" Dp. SEAT	5/16"	6"	6" CMU - 4" STEEL	RE: ANSI SJI-JG-2010

THIS DETAIL IS BASED ON THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
BEARING LENGTHS SPECIFIED IN THIS TABLE DO NOT INCLUDE ANY REQUIRED JOIST TOP CHORD EXTENSION (TCX).
ALL JOIST SERIES SHOWN IN THIS CHART MAY NOT APPLY TO THIS PROJECT. SEE PLANS FOR SPECIFIC JOISTS REQUIRED.

STEEL BEAM SCHEDULE

BEAM MARK No.	BEAM SIZE	BEAM MATERIAL	DESIGN REACTION	BEAM CONNECTION DETAIL		BEAM BEARING PLATE		BEAM ELEVATION		SECTION	REMARKS	BEAM MARK No.
				TAG END	OPPOSITE END	TAG	OPP.	TAG END	OPPOSITE END			
RB01	W8x28	A992, Gr. 50	6.0 kips	1/S4.1	3/S4.1	0.3750"x7"x1'-0"Lg.	0.5000"x7"x1'-0"Lg.	113'-0"	113'-0"	RE: 3/S5.1		RB01
RB02	W8x28	A992, Gr. 50	7.9 kips	1/S4.1	3/S4.1	0.3750"x11"x1'-0"Lg.	N/A	113'-0"	113-0"	RE: 3/S5.1		RB02
RB03	W8x28	A992, Gr. 50	6.3 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0"Lg.	0.3750"x11"x1'-0"Lg.	112'-4"	112'-4"	RE: 3/S5.1		RB03
RB04	W8x28	A992, Gr. 50	6.0 kips	1/S4.1	K/S3.1	0.3750"x7"x1'-0"Lg.	N/A	112'-0"	112'-0"	RE: 3/S5.1		RB04
RB05	W8x28	A992, Gr. 50	6.0 kips	1/S4.1	K/S3.1	0.3750"x11"x1'-0"Lg.	N/A	112'-0"	112'-0"	RE: 3/S5.1		RB05
RB06	W12x26	A992, Gr. 50	6.9 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	112'-8.25"	112'-3.875"	RE: 8/S5.1		RB06
RB07	W8x28	A992, Gr. 50	6.0 kips	1/S4.1	1/S4.1	0.3750"x11"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	111'-8"	111'-8"	RE: 7/S5.1		RB07
RB08	W12x26+P	A992, Gr. 50	6.2 kips	1/S4.2	1/S4.2	0.3750"x7"x1'-3"Lg.	0.3750"x7"x1'-3"Lg.	107'-4"(B)"	107'-4"(B)	RE: A/S4.2		RB08
RB09	W8x28	A992, Gr. 50	6.0 kips	1/S4.2	1/S4.2	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	109'-4"(B)	109'-4"(B)	RE: A/S4.2		RB09
RB10	W8x28	A992, Gr. 50	6.9 kips	1/S4.2	1/S4.2	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	FIELD DETERMINE	FIELD DETERMINE	RE: A/S4.2		RB10
RB11	W8x28+P	A992, Gr. 50	6.0 kips	1/S4.2	1/S4.2	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	FIELD DETERMINE	FIELD DETERMINE	RE: A/S4.2		RB11
RB12	W8x28+P	A992, Gr. 50	12.0 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	121'-8"(B)	121'-8"(B)	RE: 2/S4.1		RB12
RB13	W8x28+P	A992, Gr. 50	12.0 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	109'-0"(B)	109'-0"(B)	RE: 2/S4.1	RE: 6/A5.2	RB13
RB14	W8x15+P	A992, Gr. 50	6.0 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	109'-0"(B)	109'-0"(B)	RE: 6/A5.2		RB14
RB15	W8x15+P	A992, Gr. 50	6.0 kips	1/S4.1	1/S4.1	0.3750"x7"x1'-0"Lg.	0.3750"x7"x1'-0"Lg.	109'-0"(B)	109'-0"(B)	RE: 6/A5.2 (SIM)		RB15
CB01	HSS 8x4x0.375	A992, Gr. 50	6.0 kips	A/S3.1 (NO SPLICE)	A/S3.1 (NO SPLICE)	N/A	N/A	COORDINATE w/ARCH	COORDINATE w/ARCH	RE: C/S6.1		CB01
CB02	HSS 8x3x0.375	A992, Gr. 50	6.0 kips	K/S3.1	K/S3.1	N/A	N/A	COORDINATE w/ARCH	COORDINATE w/ARCH	RE: C/S6.1		CB02
CB03	HSS 8x4x0.375	A992, Gr. 50	6.0 kips	E/S6.1	E/S6.1	N/A	N/A	COORDINATE w/ARCH	COORDINATE w/ARCH	RE: 4/S5.2		CB03

BEAM SCHEDULE NOTES:

1. "TAG END" REFERS TO THE END OF THE BEAM WITH THE BEAM MARK NUMBER ON THE PLAN.
2. BEAMS MAY BE FABRICATED USING MATERIAL CONFORMING TO ASTM SPECIFICATION A992, GRADE 50 IN LIEU OF THE MATERIAL SPECIFIED AT THE FABRICATOR'S OPTION. IT SHALL BE NOTED ON THE SHOP DRAWINGS IF THIS OPTION IS EXERCISED.
3. THE DETAILER SHALL INDICATE THE APPROPRIATE BEAM MARK NUMBERS FROM THESE DRAWINGS ON EACH BEAM DETAIL IN THE SHOP DRAWINGS. FAILURE TO COMPLY WITH REQUIREMENT WILL RESULT IN REJECTION OF THE SHOP DRAWING SUBMITTAL.
4. THE ELEVATIONS SHOWN HEREIN ARE THE TOP OF STEEL ELEVATIONS (U.N.O.) AT THE INTERSECTION OF CENTER LINES OF THE BEAM UNDER CONSIDERATION AND THE BEAM OR COLUMN INTO WHICH THAT BEAM FRAMES. WHERE BEAM ELEVATION IS MARKED WITH A (B), THE SPECIFIED ELEVATION IS THE BOTTOM OF STEEL ELEVATION.
5. THE COLUMN IN THE SCHEDULE IDENTIFIED AS "SECTION" REFERENCES (RE:) APPLICABLE SECTIONS AND DETAILS THROUGH THE BEAM.
6. WHERE STEEL BEAMS SUPPORT CONCRETE MASONRY UNITS (CMU) AND / OR BRICK, THE STEEL FABRICATOR SHALL PROVIDE PLATES INDICATED IN SECTION 2/S4.1. THE CONTRACTOR SHALL COORDINATE THE NEED FOR BOTTOM PLATES SHOWN IN THESE SECTIONS BETWEEN THE MASON AND STEEL FABRICATOR. WHERE BEAM MARK NUMBERS INCLUDE "+P" [e.g. B-15 (W16x45+P)], TOP AND / OR BOTTOM FLANGE PLATES PER SECTION 2/S4.1 ARE A STRUCTURAL REQUIREMENT. AN EFFORT HAS BEEN MADE TO IDENTIFY BEAMS w/ "+P" WHERE PLATES MAY REQUIRED BY THE ARCHITECTURAL DRAWINGS. HOWEVER, ALL SUCH BEAMS MAY NOT BE TAGGED w/ "+P". THE CONTRACTOR IS RESPONSIBLE TO FURNISH PLATES WELDED TO BEAM FLANGES PER THE REFERENCED SECTIONS WHERE REQUIRED BY THE ARCHITECTURAL DRAWINGS WHETHER SUCH BEAMS ARE IDENTIFIED w/ "+P" ON THE STRUCTURAL PLANS OR NOT.
7. WHERE STEEL BEAMS ARE SUPPORTED ON MASONRY (CMU), A BEAM BEARING PLATE SHALL BE PROVIDED PER DETAIL A/S4.1 (RE: 1/S4.1 & 3/S4.1). ALL BEAMS INDICATED ON THE PLAN TO BE SUPPORTED ON CMU SHALL BE PROVIDED WITH A BEAM BEARING PLATE PER THE BEAM SCHEDULE. WHERE NO BEARING PLATE IS INDICATED IN THE BEAM SCHEDULE, THE PLATE SIZE SHALL BE BASED ON THE BEAM IN THAT SCHEDULE THAT IS MOST SIMILAR TO THE BEAM UNDER CONSIDERATION.

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS - ALL MAY NOT APPLY TO THIS PROJECT

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY WILLIAM E. GRIGSBY, JR. 16114 LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

TYPICAL BAR JOIST, METAL DECK and STEEL FRAMING DETAILS
STEEL BEAM SCHEDULE

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

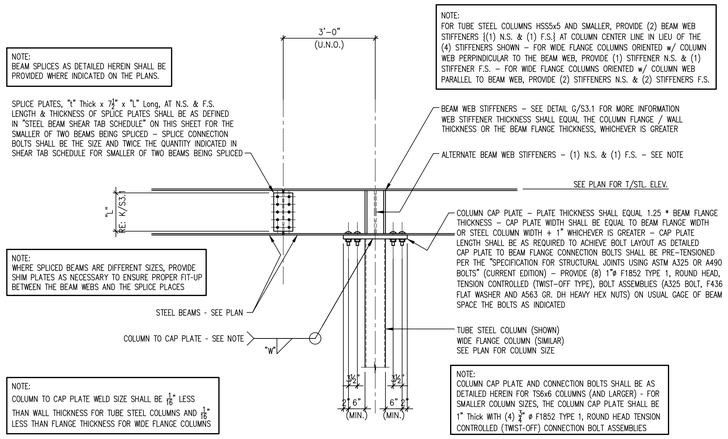
REVISIONS

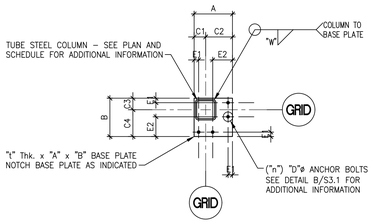
No.	Description	Date

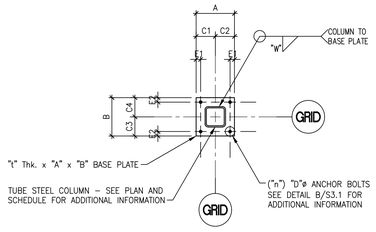
SHEET

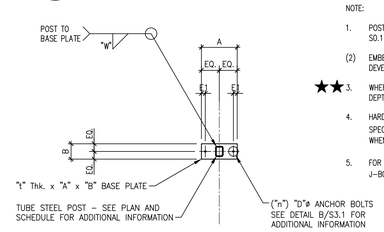
S3.0

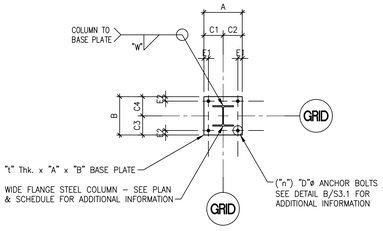
1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

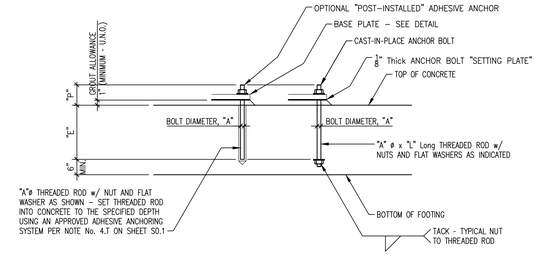


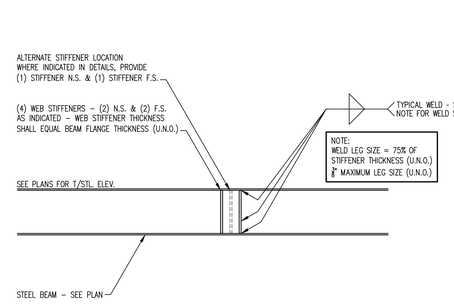


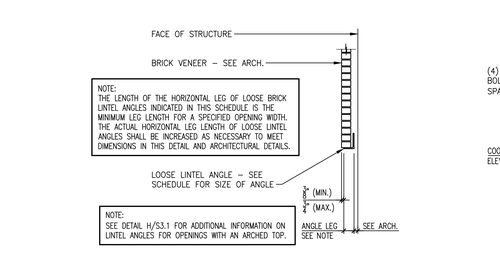


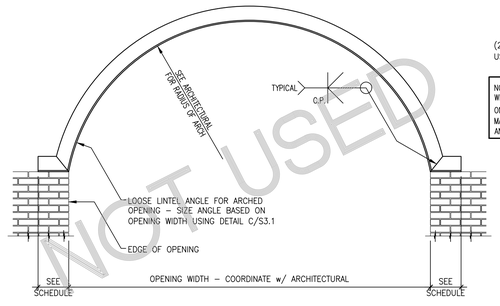


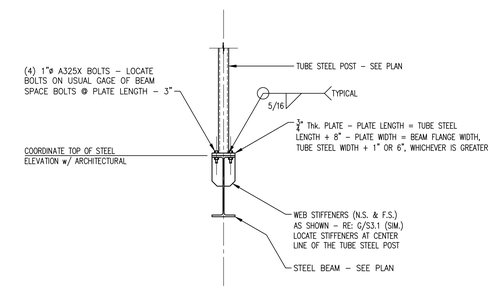


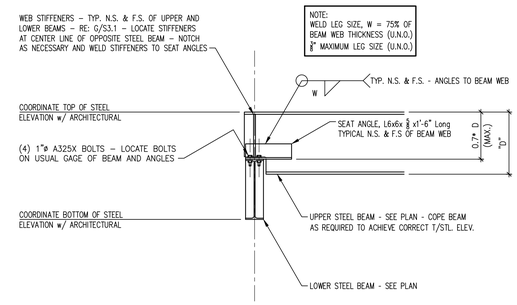


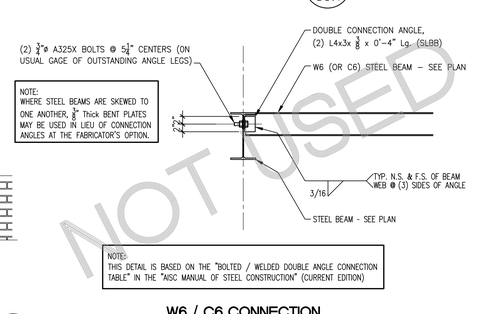












NOTE:
BEAM SPLICES AS DETAILED HEREIN SHALL BE PROVIDED WHERE INDICATED ON THE PLANS.

NOTE:
FOR TUBE STEEL COLUMNS HSS5x5 AND SMALLER, PROVIDE (2) BEAM WEB STIFFENERS {(1) N.S. & (1) F.S.} AT COLUMN CENTER LINE IN LIEU OF THE (4) STIFFENERS SHOWN – FOR WIDE FLANGE COLUMNS ORIENTED w/ COLUMN WEB PERPINDICULAR TO THE BEAM WEB, PROVIDE (1) STIFFENER N.S. & (1) STIFFENER F.S. – FOR WIDE FLANGE COLUMNS ORIENTED w/ COLUMN WEB PARALLEL TO BEAM WEB, PROVIDE (2) STIFFENERS N.S. & (2) STIFFENERS F.S.

NOTE:
WHERE SPLICED BEAMS ARE DIFFERENT SIZES, PROVIDE SHIM PLATES AS NECESSARY TO ENSURE PROPER FIT-UP BETWEEN THE BEAM WEBS AND THE SPLICE PLACES

NOTE:
COLUMN TO CAP PLATE WELD SIZE SHALL BE $\frac{1}{16}$" LESS THAN WALL THICKNESS FOR TUBE STEEL COLUMNS AND $\frac{1}{16}$" LESS THAN FLANGE THICKNESS FOR WIDE FLANGE COLUMNS

NOTE:
COLUMN CAP PLATE AND CONNECTION BOLTS SHALL BE AS DETAILED HEREIN FOR TS6x6 COLUMNS (AND LARGER) - FOR SMALLER COLUMN SIZES, THE COLUMN CAP PLATE SHALL BE 1" Thick WITH (4) ¾" ø F1852 TYPE 1, ROUND HEAD TENSION CONTROLLED (TWIST-OFF) CONNECTION BOLT ASSEMBLIES

COLUMN CAP PLATE

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

A / S3.1

TYPICAL DETAIL - ANCHOR BOLTS

SCALE: 1/2" = 1'-0"

B / S3.1

ANCHOR BOLT SCHEDULE

"A"	"E"(2)	"P"	"L"	THREADED ROD MATERIAL	REMARKS
½"	7"	3½"	14"	ASTM F1554, Gr. 36	
⅝"	12"	3½"	18"	ASTM F1554, Gr. 36	
¾"	15"	4"	21"	ASTM F1554, Gr. 36	
1"	18"	4½"	25"	ASTM F1554, Gr. 55	
1¼"	21"	5"	29"	ASTM F1554, Gr. 55	
1⅜"	24"	5"	32"	ASTM F1554, Gr. 55	
1½"	24"	5"	32"	ASTM F1554, Gr. 55	
2"	30"	8"	42"	ASTM F1554, Gr. 55	

NOTE:

1. POST INSTALLED, ADHESIVE ANCHORS MAY BE USED IN LIEU OF CAST IN PLACE, HEADED ANCHORS AT CONTRACTOR's OPTION. SEE NOTE 4.T ON SHEET S0.1 FOR ADDITIONAL INFORMATION.

(2) EMBEDMENT DEPTH "E" FOR POST INSTALLED ADHESIVE ANCHORS MAY BE REDUCED TO THAT DEPTH SPECIFIED BY THE ADHESIVE MANUFACTURER WHICH DEVELOPS THE FULL YIELD STRENGTH OF THE THREADED ROD FOR THE DIAMETER AND GRADE IN QUESTION.

★★ 3. WHERE THE SPECIFIED EMBEDMENT DEPTH "E" CAN NOT BE ACHIEVED DUE TO THE CONSTRAINTS OF THE CONCRETE FOOTING THICKNESS, THE EMBEDMENT DEPTH SHALL BE SHORTENED AS REQUIRED TO MAINTAIN THE CLEARANCE INDICATED IN THIS DETAIL.

4. HARDENED FLAT WASHERS SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION ASTM F436 . NUTS SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION ASTM A563, Gr. A HEX FOR ANCHOR BOLTS 1½"ø AND SMALLER AND A563, Gr. DH HEAVY HEX FOR ANCHOR BOLTS LARGER THAN 1½"ø. WHEN A563, Gr. DH NUTS ARE NOT AVAILABLE, A194, Gr.2H NUTS MAY BE SUBSTITUTED.

5. FOR WOOD 2x SOLE PLATES IN WOOD FRAMED CONSTRCUTION ONLY, ½"ø "J-BOLTS" MAY BE USED IN LIEU OF THE ½"ø ANCHOR BOLTS DETAILED HEREIN. J-BOLT EMBEDMENT DEPTH SHALL BE 7" (MINIMUM – U.N.O.).

NOTE:
THE LENGTH OF THE HORIZONTAL LEG OF LOOSE BRICK LINTEL ANGLES INDICATED IN THIS SCHEDULE IS THE MINIMUM LEG LENGTH FOR A SPECIFIED OPENING WIDTH. THE ACTUAL HORIZONTAL LEG LENGTH OF LOOSE LINTEL ANGLES SHALL BE INCREASED AS NECESSARY TO MEET DIMENSIONS IN THIS DETAIL AND ARCHITECTURAL DETAILS.

NOTE:
SEE DETAIL H/S3.1 FOR ADDITIONAL INFORMATION ON LINTEL ANGLES FOR OPENINGS WITH AN ARCHED TOP.

LOOSE LINTEL ANGLES

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

C / S3.1

LOOSE LINTEL ANGLE SCHEDULE

MAXIMUM OPENING WIDTH	BRICK LINTEL ANGLE	REQUIRED BEARING LENGTH
6'-0"	L 3-1/2x3-1/2x 5/16"	8"
7'-4"	L 4x3-1/2x 3/8" (LLV)	8"
9'-4"	L 5x3-1/2x 3/8" (LLV)	8"
11'-4"	L 6x4x 3/8" (LLV)	8"
13'-4"	L 7x4x 1/2" (LLV)	8"
14'-8"	L 8x4x 1/2" (LLV)	12"
GREATER THAN 14'-8"	SEE NOTE BELOW	

HORIZONTAL LEG LENGTH SPECIFIED IS A MINIMUM - SEE NOTE FOR ACTUAL LEG LENGTH

THIS SCHEDULE IS BASED ON A BRICK WEIGHT OF 45 POUNDS PER SQUARE FOOT (psf)

ALL BRICK LINTEL ANGLES SHALL BE HOT DIP GALVANIZED.

RE: E/S4.0 FOR BRICK LINTELS @ OPENINGS GREATER THAN 14'-8" IN CMU WALLS

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

D / S3.1

NOTE:
WELD LEG SIZE, W = 75% OF BEAM WEB THICKNESS (U.N.O.)
⅜" MAXIMUM LEG SIZE (U.N.O.)

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

F / S3.1

TYPICAL DETAIL - COLUMN BASE PLATES

SCALE: 1/2" = 1'-0"

E / S3.1

NOTE:
WELD LEG SIZE = 75% OF STIFFENER THICKNESS (U.N.O.)
⅜" MAXIMUM LEG SIZE (U.N.O.)

BEAM WEB STIFFENER DETAIL

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

G / S3.1

TYPICAL DETAIL - LINTEL ANGLE @ ARCH

SCALE: 1/2" = 1'-0"

H / S3.1

NOTE:
WHERE STEEL BEAMS ARE SKEWED TO ONE ANOTHER, ⅜" Thick BENT PLATES MAY BE USED IN LIEU OF CONNECTION ANGLES AT THE FABRICATOR'S OPTION.

NOTE:
THIS DETAIL IS BASED ON THE "BOLTED / WELDED DOUBLE ANGLE CONNECTION TABLE" IN THE "AISC MANUAL OF STEEL CONSTRUCTION" (CURRENT EDITION)

W6 / C6 CONNECTION

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

J / S3.1

COLUMN BASE PLATE SCHEDULE

MARK No.	COLUMN SIZE	"A"	"B"	"C1"	"C2"	"C3"	"C4"	"D"	"E1"	"E2"	"t"	"W"	"n"	REMARKS
CC01	HSS 7x7x 0.375	1'-3"	1'-3"	7.5"	7.5"	7.5"	7.5"	1.00"	1.50"	1.50"	1.00"	1/4"	4	

NOTE:
COPE BEAM FLANGES PER AISC RECOMMENDATIONS AS REQUIRED

NOTE:
THE HORIZONTAL EDGE DISTANCE, "E" SHALL BE TWO (2) TIMES THE BOLT DIAMETER, "D"

TYPICAL DETAIL - SINGLE-PLATE BEAM CONNECTION

SCALE: 1/2" = 1'-0"

K / S3.1

NOTE:
COPE BEAM FLANGES PER AISC RECOMMENDATIONS AS REQUIRED

NOTE:
WHERE STEEL BEAMS ARE SKEWED TO ONE ANOTHER, ⅜" Thick BENT PLATES MAY BE USED IN LIEU OF CONNECTION ANGLES AT THE FABRICATOR'S OPTION

TYPICAL DETAIL

SCALE: 1/2" = 1'-0"

L / S3.1

STEEL BEAM CONNECTION SCHEDULE

BEAM SIZE	"t"	"n"	"L"	"W"	"D"	DESIGN REACTION	REMARKS
W8x15	¼"	2	6.0"	3/16"	¾"ø	6.0 kips	
W8x24 & W8x28	5/16"	2	6.0"	¼"	¾"ø	18.0 kips	
W12x22 & W12x26	5/16"	3	9.0"	¼"	¾"ø	25.0 kips	
W16x26 & W16x31	5/16"	4	12.0"	¼"	¾"ø	40.0 kips	

NOTES:

1. THIS SCHEDULE ASSUMES ALL CONNECTION BOLTS TO BE A325X (U.N.O.) INSTALLED "SNUG-TIGHT" (U.N.O.)

2. THIS SCHEDULE AND ACCOMPANYING DETAILS ARE BASED ON THE "SINGLE-PLATE CONNECTIONS TABLES" AND THE "BOLTED / WELDED DOUBLE-ANGLE CONNECTIONS TABLES" IN THE "AISC MANUAL OF STEEL CONSTRUCTION" (CURRENT EDITION). FOR DEFINITION OF DIMENSIONS AND OTHER TERMS CONTAINED IN THIS SCHEDULE – SEE SECTION K/S3.1 FOR SINGLE-PLATE (SHEAR TAB) CONNECTIONS AND SECTIONS L/S3.1 FOR DOUBLE- ANGLE CONNECTIONS. DOUBLE ANGLE CONNECTIONS SHALL BE DETAILED USING "WELD A" PER AISC TABLE.

3. CAPACITIES ASSUME BEAMS ARE NOT COPED. CAPACITIES MUST BE REDUCED PER AISC SPECIFICATIONS FOR BEAMS WITH COPED FLANGES.

4. FOR SINGLE-PLATE CONNECTIONS ON SKEWED BEAMS WHERE THE SKEW OF THE SHEAR TAB RESTRICTS INSTALLATION OF CONNECTION BOLTS, THE 2" DIMENSION MAY BE INCREASED TO 3½" (MAX.) TO ALLOW BOLT INSTALLATION.

5. TO ACCOMMODATE ERECTION TOLERANCES, THE BOLT HOLES MAY BE HORIZONTAL "SHORT SLOTTED HOLES".

6. ANY BEAM SHOWN ON PLAN FRAMING INTO ANOTHER STEEL ELEMENT (BEAM OR COLUMN) THAT IS NOT SHOWN IN THIS SCHEDULE SHALL HAVE A CONNECTION DETAILED IN ACCORDANCE WITH THIS SCHEDULE. SHEAR TAB SHALL BE SIZED FOR A BEAM SHOWN IN THIS SCHEDULE THAT IS FROM THE SAME "BEAM FAMILY" AS THE BEAM IN QUESTION.

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS - ALL MAY NOT APPLY TO THIS PROJECT

1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

SHERMAN
CARTER
BARNHART
ARCHITECTS

FINAL DOCUMENTS

WILLIAM E. GRIGSBY, JR.
16114

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

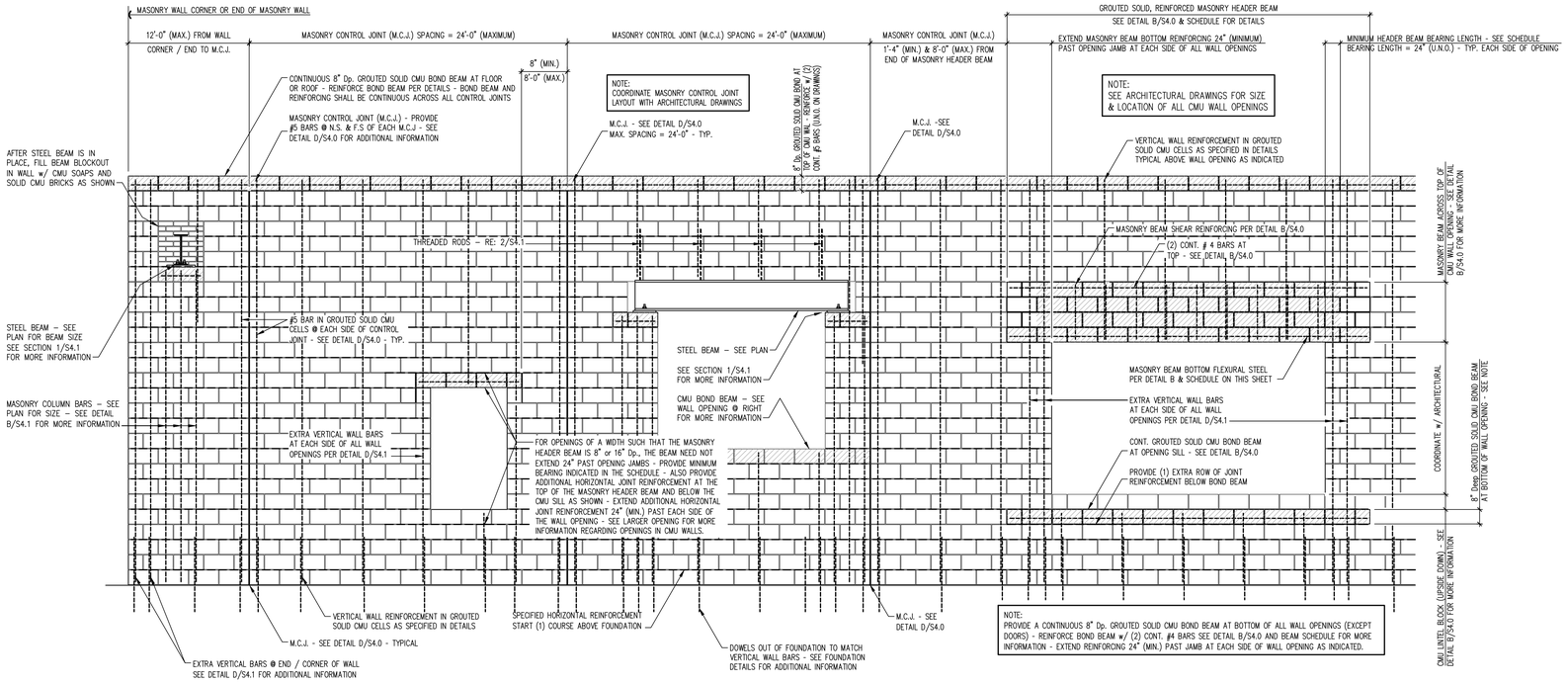
TYPICAL STEEL FRAMING DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

REVISIONS

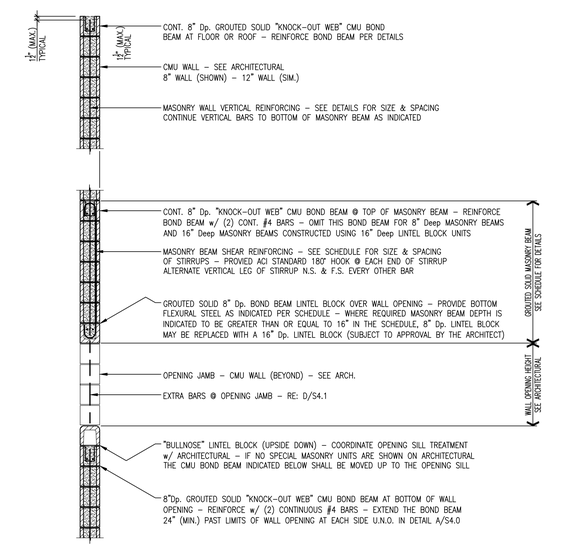
No.	Description	Date

SHEET
S3.1



MASONRY (CMU) WALL OPENINGS, JOINTS + REINFORCING

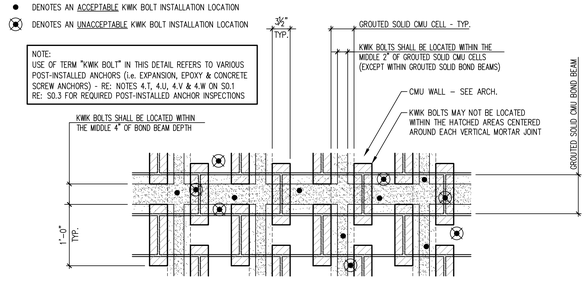
TYPICAL DETAIL
SCALE: NONE
A S4.0



TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
B S4.0

MASONRY HEADER BEAM SCHEDULE

WALL OPENING MARK No. (1)	OPENING WIDTH	CMU WALL THICKNESS	CMU HEADER BEAM DEPTH	CMU HEADER BEAM LOAD	CMU BOND BEAM FLEXURAL REINFORCING	CMU BOND BEAM SHEAR REINFORCING	MINIMUM BEARING LENGTH	REMARKS
A	2'-4"	8"	8"		(2) #4	NONE REQUIRED	24"	INTERIOR DOOR - MECHANICAL CHASE
B	3'-4"	8"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR
C	3'-4"	12"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR - GYMNASIUM
D	4'-0"	8"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR - MECHANICAL
E	6'-4"	12"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR - GYMNASIUM
F	6'-4"	12"	16"		(2) #5	NONE REQUIRED	24"	EXTERIOR DOOR - GYMNASIUM
G	8'-8"	8"	24"		(2) #5	NONE REQUIRED	24"	EXTERIOR WINDOW - CLASSROOMS
H	6'-8"	12"	24"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR/WINDOW - GYMNASIUM
J	6'-4"	12"	24"		(2) #5	NONE REQUIRED	24"	INTERIOR WINDOW - GYMNASIUM
K	3'-4"	6"	16"		(2) #5	NONE REQUIRED	24"	INTERIOR DOOR - EXISTING BUILDING
L	6'-4"	8"	24"		(2) #5	NONE REQUIRED	24"	EXTERIOR DOOR - MECHANICAL ROOM
M	3'-4"	6"	8"		(1) #4	NONE REQUIRED	24"	INTERIOR DOOR
N	4'-4"	8"	16"		(2) #5	NONE REQUIRED	24"	EXTERIOR DOOR - PUMP HOUSE

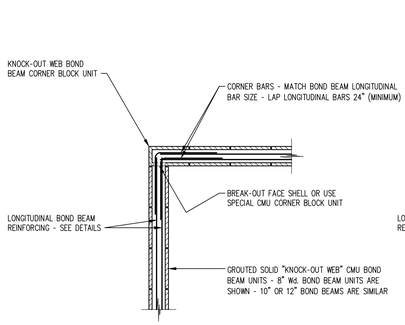


ALLOWED INSTALLATION LOCATION FOR POST INSTALL ANCHOR BOLTS
(KWIK BOLTS AND EPOXY ANCHORS)

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
G S4.0

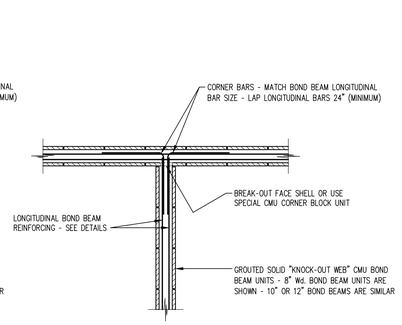
MASONRY HEADER BEAM SCHEDULE NOTES:

1. WALL OPENING MARK NUMBERS ARE IDENTIFIED IN HEXAGONS ON THE FRAMING PLANS FOR THE PLAN DIRECTLY ABOVE THE OPENING.
2. AT CONTRACTOR'S OPTION, THE CMU BOND BEAM HEADER OVER WALL OPENINGS MAY BE REPLACED WITH A STEEL BEAM (+ PLATE TO CARRY CMU SOAPS AND / OR BRICK VENEER). CONTACT THE STRUCTURAL ENGINEER FOR STEEL BEAM SIZE. BEAM SHALL BE SUPPORTED AT EACH END PER SECTION 1/S4.1. CONSTRUCT CMU WALL ABOVE STEEL BEAM AND PROVIDE STEEL PLATE PER SECTION 2/S4.1.
3. ALL STEEL LINTEL ANGLES & STEEL BEAMS (+ PLATE) SHALL BE HOT-DIPPED GALVANIZED.
4. WHERE MASONRY OPENINGS ARE SHOWN ON ARCHITECTRUAL DRAWINGS BUT NOT INDICATED ON STRUCTURAL DRAWINGS (e.g. PARTITIOIN WALLS & NON-BEARING WALLS), THE MASON SHALL PROVIDE A REINFORCED CMU HEADER BEAM DETAILED PER THIS SCHEDULE USING THE OPENING THAT MOST CLOSELY RESEMBLES MASONRY OPENING IN QUESTION.



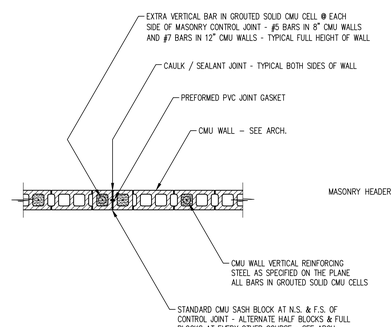
CMU WALL CORNER

TYPICAL DETAIL - CMU BOND BEAM CORNER BARS
SCALE: 1/2" = 1'-0"
C S4.0



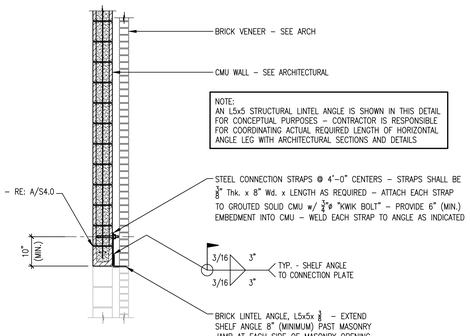
CMU WALL INTERSECTION

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
D S4.0



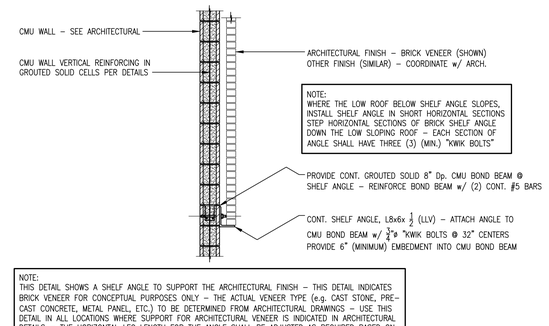
MASONRY CONTROL JOINT (M.C.J.)

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
D S4.0



STRUCTURAL BRICK LINTEL

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
E S4.0



BRICK SHELF ANGLE

TYPICAL DETAIL
SCALE: 1/2" = 1'-0"
F S4.0

FINAL DOCUMENTS

SHERMAN CARTER BARNHART ARCHITECTS
COMMONWEALTH OF KENTUCKY WILLIAM E. GRIGSBY, JR. 16114 LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MASONRY HEADER BEAM SCHEDULE
TYPICAL MASONRY DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs/DEM
CHECKED	WEG/BKL

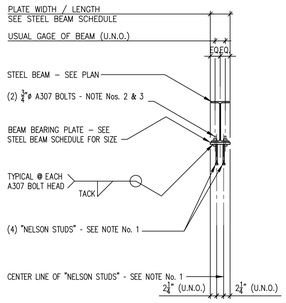
REVISIONS

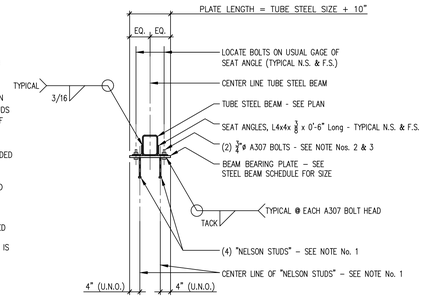
No.	Description	Date

SHEET
S4.0

NOTES:

1. EACH BEAM BEARING PLATE SHALL HAVE (4) ½"ø x 8" Lg. (AW) "NELSON STUDS" AUTOMATICALLY WELDED TO STEEL BEARING PLATE. NELSON STUDS SHALL BE OFFSET 2½" (U.N.O.) FROM PLATE EDGE AT EACH SIDE AS INDICATED. FOR BEARING PLATES LONGER THAN 1'-9" PROVIDE TWO (2) ADDITIONAL "NELSON STUDS" (TOTAL OF SIX) @ MID-LENGTH OF THE PLATE.
2. PROVIDE (2) ¾"ø A307 BOLTS AS SHOWN – PROVIDE COMPATIBLE NUTS AND FLAT WASHERS AS REQUIRED. SHOP WELD EACH BOLT HEAD TO THE BOTTOM OF THE BEAM BEARING PLATE AS INDICATED. BOLTS SHALL BE CENTERED ON PLATE WIDTH OR PLATE LENGTH (AS APPLICABLE) AND SPACED AT "USUAL GAGE" OF STEEL BEAM (FOR WIDE FLANGES) OR AS INDICATED FOR TUBE STEEL. FOR BEAMS w/ 4" FLANGE WIDTH AND LESS, USE ¾"ø A307 BOLTS.
3. AT FABRICATOR'S OPTION, A307 BOLTS MAY BE REPLACED WITH (2) CPL ¾"–10 UNC x 1½" Lg. THREADED "NELSON STUDS". THE THREADED "NELSON STUDS" SHALL BE AUTOMATICALLY SHOP WELDED TO THE BEARING PLATE. STUDS SHALL BE CENTERED ON PLATE WIDTH OR PLATE LENGTH (AS APPLICABLE) AND SPACED AT THE "USUAL GAGE" OF THE BEAM (FOR WIDE FLANGES) OR AS INDICATED FOR TUBE STEEL.
4. PROVIDE (2) ¾" x 3" Long SLOTTED HOLES IN THE BEAM FLANGE TO ACCOMMODATE THE A307 BOLTS (OR THREADED NESLON STUDS). SLOTS SHALL BE PARALLEL TO LENGTH OF THE BEAM.
5. RE: 1/S4.1 FOR MORE INFORMATION REGARDING BEAM BEARING PLATES ON CMU WALLS. ORIENT THE LEAST STUD LAYOUT DIMENSION TO FIT WITHIN THE CMU BOND BEAM AS INDICATED IN THE REFERENCED SECTIONS.
6. SEE THE "STEEL BEAM SCHEDULE" FOR BEAM BEARING PLATE SIZES. FOR BEAMS BEARING ON CMU WALLS THE PLATE WIDTH SHALL BE 7" (8" CMU) OR 11" (12" CMU). THE PLATE LENGTH IS THE PLATE DIMENSION MEASURED PARALLEL TO THE LENGTH OF THE CMU WALL. ALL BEAMS INDICATED ON THE PLAN TO BE SUPPORTED ON CMU WALLS SHALL BE PROVIDED WITH A BEAM BEARING PLATE PER THE BEAM SCHEDULE. WHERE NO BEARING PLATE IS INDICATED IN THE BEAM SCHEDULE, THE PLATE SIZE SHALL BE BASED ON THE BEAM IN THAT SCHEDULE THAT IS MOST SIMILAR TO THE BEAM UNDER CONSIDERATION.

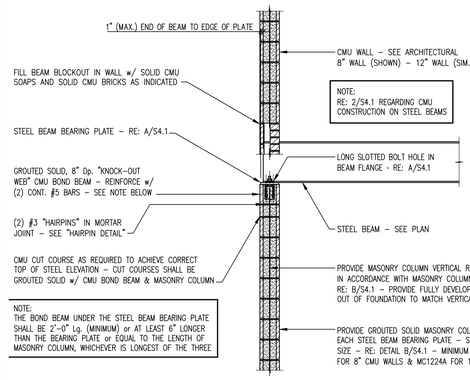




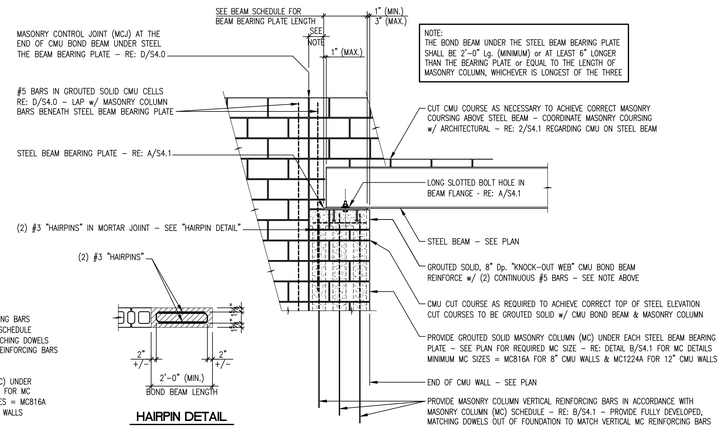
TYPICAL DETAIL - STEEL BEAM BEARING PLATES

SCALE: 1/2" = 1'-0"

A S4.1



BEAM PERPINDICULAR TO MASONRY WALL



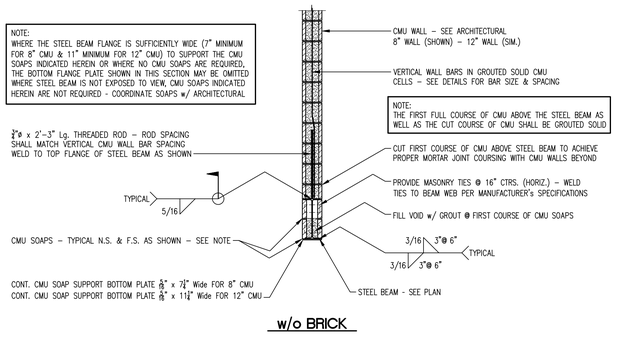
HAIRPIN DETAIL

BEAM PARALLEL TO MASONRY WALL

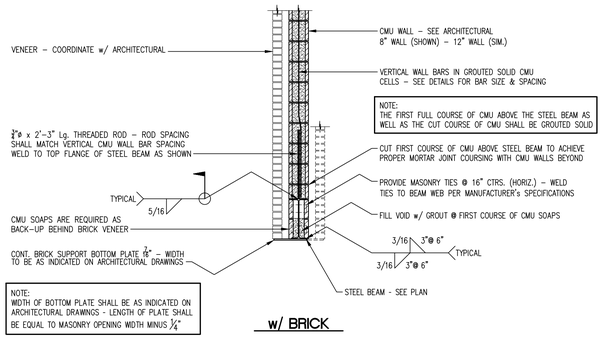
TYPICAL SECTION - STEEL BEAM ON MASONRY (CMU) WALL

SCALE: 1/2" = 1'-0"

1 S4.1



w/o BRICK

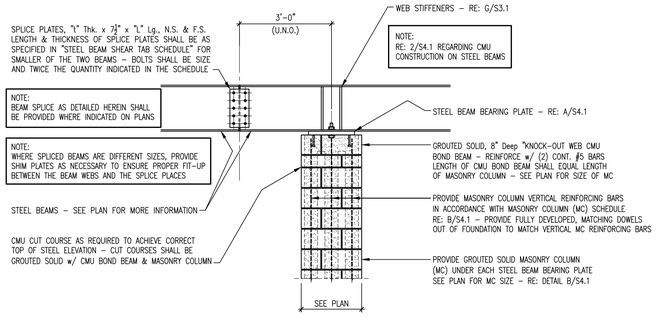


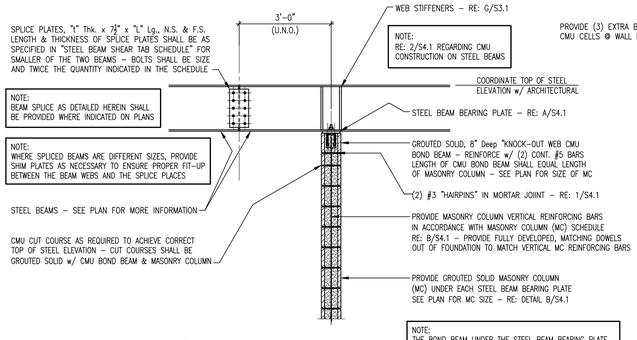
w/ BRICK

TYPICAL SECTION - CMU WALL ON STEEL BEAM

SCALE: 1/2" = 1'-0"

2 S4.1

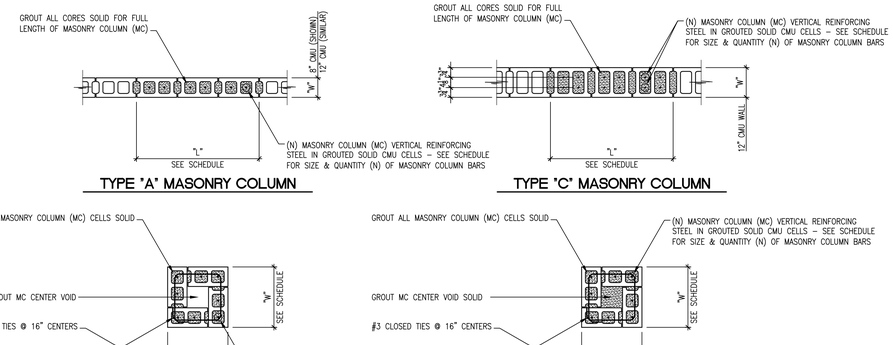




TYPICAL SECTION - STEEL BEAM ON MASONRY COLUMN

SCALE: 1/2" = 1'-0"

3 S4.1



TYPICAL DETAIL - MASONRY COLUMNS (MC)

SCALE: 1/2" = 1'-0"

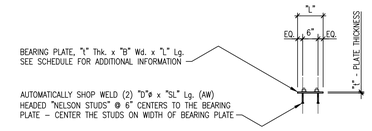
B S4.1

MASONRY COLUMN (MC) SCHEDULE

MARK No.	SIZE (WxL)	TYPE	REINFORCING (N)	REMARKS
MC824A	8"x24"	A	(3) #6	
MC1224A	12"x24"	A	(3) #7	
MC1268C	12"x68"	C	(16) #6	
MC1272C	12"x72"	C	(18) #6	
MC1276C	12"x76"	C	(18) #6	
MC1296C	12"x96"	C	(24) #6	
MC24B	24" SQUARE	B	(8) #6	

NOTE:

1. SEE DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.
2. VERTICAL REINFORCING FOR MASONRY COLUMN (MC) SHALL HAVE MATCHING DOWELS OUT OF FOUNDAITON. PROVIDE TENSION LAP SPLICE (48 BAR DIAMETERS).
3. CONCRETE MASONRY (CMU) PRISM STRENGTH; f'm = 1,900 psi BASED ON THE NET SECTION (U.N.O.).
4. MASONRY COLUMN (MC) GROUT STRENGTH; f'g = 2,500 psi (U.N.O.).
5. PROVIDE HORIZONTAL JOINT REINFORCEMENT (DUR–O–WAL) @ 8" CENTERS VERTICALLY – TYPICAL ALL MASONRY COLUMNS..
6. ALL MASONRY COLUMNS SHALL BE CONSTRUCTED USING "RUNNING BOND" CONSTRUCTION.



TYPICAL DETAIL - BEARING PLATES

SCALE: 1/2" = 1'-0"

C S4.1

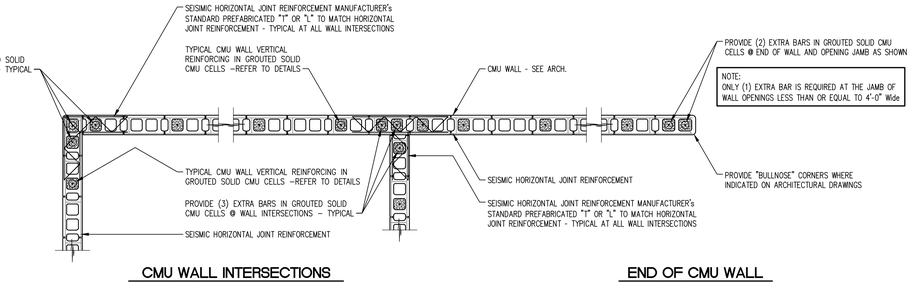
BEARING PLATE SCHEDULE

SUPPORTED STRUCTURAL MEMBER	"t"	"B"	"L"	"D"	"SL"	REMARKS
"K–SERIES" STEEL BAR JOIST	⅜"	4"	10"	⅝"	4"	
"LH–SERIES" STEEL BAR JOIST	⅜"	6"	10"	⅝"	5"	LH02 thru LH12
"LH–SERIES" STEEL BAR JOIST	⅜"	6"	12"	⅝"	5"	LH13 thru LH17

NOTE: ERECTION BOLTS FOR OPEN–WEB STEEL BAR JOIST MAY BE REQUIRED BY OSHA OR SJI STANDARDS WHERE REQUIRED, ERECTION BOLTS SHALL BE AUTOMATICALLY WELDED TO BEARING PLATE USING (2) THREADED "NELSON CPL WELDING STUDS" OF THE SIZE REQUIRED BY THE CONTROLLING STANDARD ERECTION BOLTS SHALL NOT BE CONSTRUED AS A REPLACEMENT FOR SPECIFIED JOIST TO PLATE WELDS

NOTE: AT CONTRACTOR'S OPTION, INDIVIDUAL BEARING PLATES MAY BE REPLACED WITH A CONTINUOUS PLATE TO FACILITATE LAYOUT OF JOISTS / TRUSSES - CONTINUOUS PLATE WIDTH AND THICKNESS SHALL BE SAME AS INDIVIDUAL PLATES BEING REPLACED - CONTINUOUS PLATE SHALL HAVE "NELSON STUDS" OF SIZE SPECIFIED HEREIN @ 16" CENTERS ALONG THE LENGTH OF THE PLATE

NOTE: THE PLATE WIDTH (B) SHOWN IN THE SCHEDULE IS THE MINIMUM WIDTH REQUIRED FOR A SINGLE SPECIFIED STRUCTURAL MEMBER BEARING ON THE PLATE. WHERE ADJACENT SPANS OF STEEL "K" SERIES BAR JOISTS BEAR ON ONE (1) BEARING PLATE ON AN 8" CMU WALL, PROVIDE A 7" Wd. x 10" Lg. BEARING PLATE w/ (4) "NELSON STUDS" PER THIS DETAIL. WHERE ADJACENT SPANS OF "K" AND / OR "LH" SERIES BAR JOISTS BEAR ON ONE BEARING PLATE ON A 12" CMU WALL, PROVIDE AN 11" Square BEARING PLATE w/ (4) "NELSON STUDS" PER THIS DETAIL. IN ALL CASES USE THE LARGEST PLATE THICKNESS SPECIFIED IN THIS DETAIL FOR DIFFERENT MEMBERS BEING SUPPORTED ON A SINGLE PLATE.



CMU WALL INTERSECTIONS

END OF CMU WALL

NOTE: THIS DETAIL SHOWS EXTRA VERTICAL BARS REQUIRED FOR CMU WALLS AT INTERSECTIONS, CORNERS AND ENDS OF WALLS 8" CMU WALLS ARE SHOWN - 12" CMU WALLS ARE SIMILAR - THE SIZE OF THE EXTRA BARS SHALL MATCH VERTICAL WALL BARS SPECIFIED FOR THE CMU WALL IN QUESTION - CMU WALL VERTICAL BARS SHALL BE CENTERED IN GROUTED SOLID CMU CELLS - PROVIDE FULLY DEVELOPED MATCHING DOWELS OUT OF THE FOUNDATION FOR ALL VERTICAL BARS IN CMU WALLS

TYPICAL DETAIL - CMU WALL REINFORCING

SCALE: 1/2" = 1'-0"

D S4.1

NOTE: INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS – ALL MAY NOT APPLY TO THIS PROJECT.

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY WILLIAM E. GRIGSBY, JR. 16114 LICENSED PROFESSIONAL ENGINEER

SHERMAN CARTER BARNHART ARCHITECTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

TYPICAL MASONRY DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

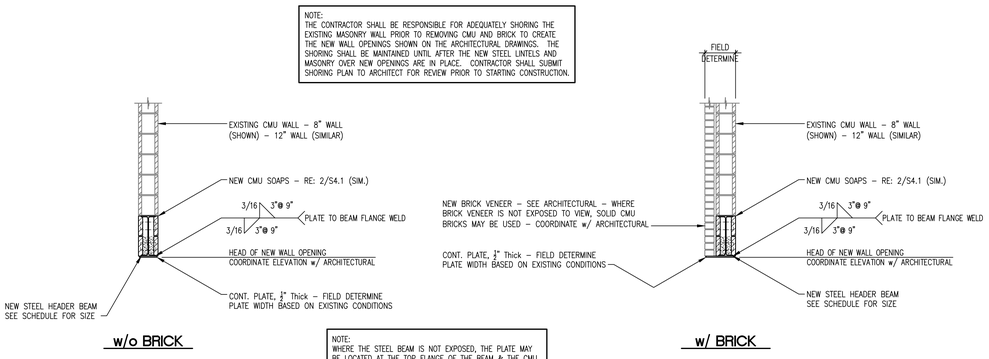
REVISIONS

No.	Description	Date

SHEET

S4.1

1569 PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



HEADER FOR NEW OPENING IN EXISTING MASONRY WALL

EXIST WALL w/ BRICK (SHOWN) – EXIST. WALL w/o BRICK (SIMILAR)

TYPICAL DETAIL

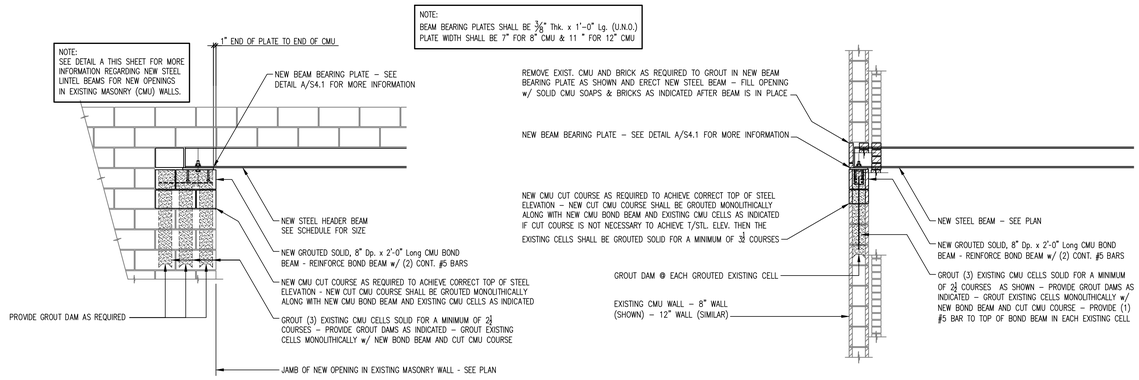
SCALE: 1/2" = 1'-0" — A / S4.2

NEW STEEL HEADER BEAM SCHEDULE

OPENING MARK NUMBER	MASONRY OPENING WIDTH	STEEL HEADER BEAM	BEAM BEARING PLATE	REMARKS
1	3'–4"	W8x28+P	0.375"x7"x1'-0" Lg.	NEW DOOR OPENING IN EXISTING INTERIOR WALL - 8" CMU
2	3'–4"	W8x28+P	0.375"x7"x1'-0" Lg.	NEW DOOR OPENING IN EXISTING EXTERIOR WALL - 8" CMU+4" BRICK
3	5'–2"(F.V.)	W8x28+P	0.375"x7"x1'-0" Lg.	NEW DOOR OPENING IN EXISTING INTERIOR WALL - 8" CMU

STEEL HEADER BEAM SCHEDULE NOTES:

1. WALL OPENING MARK NUMBERS ARE IDENTIFIED IN HEXAGONS ON THE FRAMING PLANS FOR THE PLAN DIRECTLY ABOVE THE OPENING.
2. SEE DETAIL A & SECTION 1 ON THIS SHEET FOR MORE INFORMATION.
3. ALL STEEL BEAMS SHALL HAVE FLANGE PLATES PER DETAIL A ON THIS SHEET FOR MORE INFORMATION – AT EXTERIOR WALLS, FLANGE PLATES SHALL BE HOT–DIPPED GALVANIZED.
4. WHERE OPENINGS IN EXISTING MASONRY WALLS ARE SHOWN ON ARCHITECTRUAL DRAWINGS BUT NOT INDICATED ON STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL PROVIDE A NEW STEEL HEADER BEAM DETAILED PER THIS SCHEDULE USING THE OPENING THAT MOST CLOSELY RESEMBLES MASONRY OPENING IN QUESTION.
5. DETAIL B ON THIS SHEET MAY BE USED FOR OPENINGS LESS THAN 4'–8" WIDE WITH THE ARCHITECT'S APPROVAL

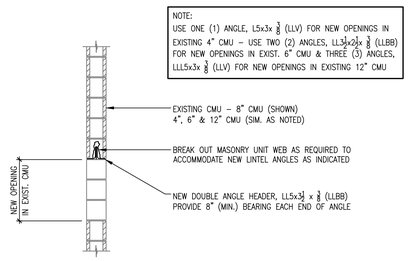


NEW STEEL BEAM PARALLEL TO EXISTING MASONRY WALL

NEW STEEL BEAM PERPINDICULAR TO EXISTING MASONRY WALL

TYPICAL SECTION – STEEL BEAM ON EXISTING MASONRY (CMU) WALL

SCALE: 1/2" = 1'-0" — 1 / S4.2

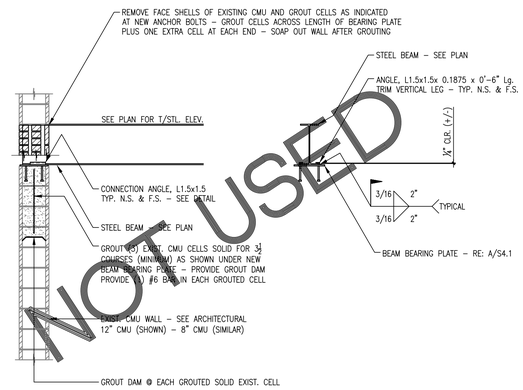


NEW OPENING IN EXISTING MASONRY WALL

4'–8" = MAXIMUM OPENING SIZE FOR THIS DETAIL

TYPICAL DETAIL

SCALE: 1/2" = 1'-0" — B / S4.2



STEEL BEAM ON EXISTING MASONRY FIRE WALL

TYPICAL DETAIL

SCALE: 1/2" = 1'-0" — C / S4.2

NOTE:
INFORMATION AND DETAILS CONTAINED ON THIS SHEET ARE OFFICE STANDARDS – ALL MAY NOT APPLY TO THIS PROJECT.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

TYPICAL MASONRY DETAILS MODIFYING EXISTING MASONRY

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs, DEM
CHECKED	WEG/BKL

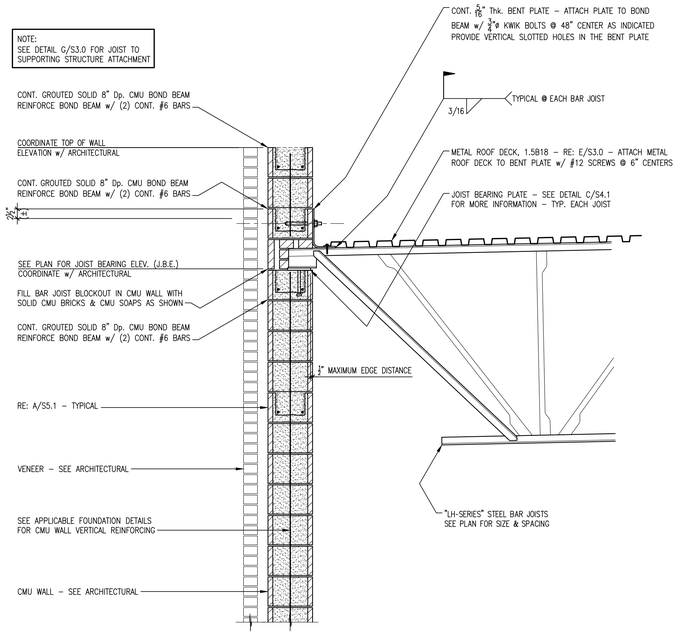
REVISIONS

No.	Description	Date

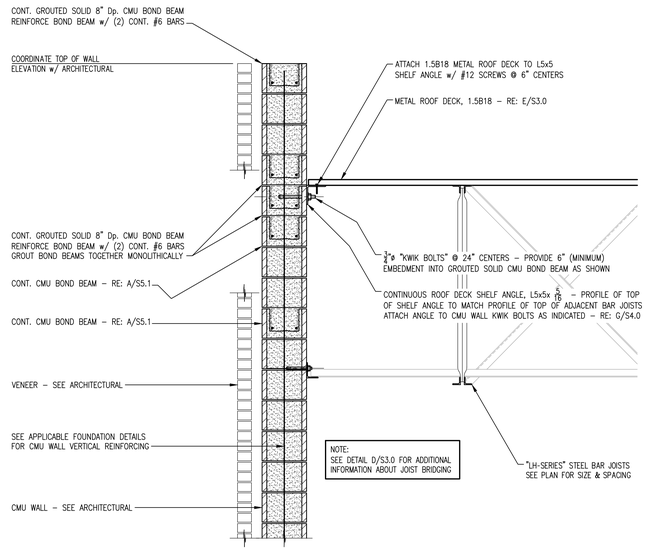
SHEET

S4.2

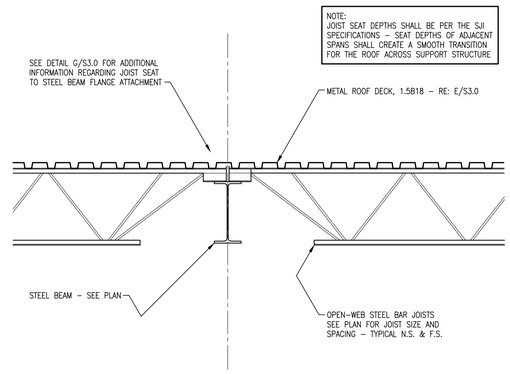
1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



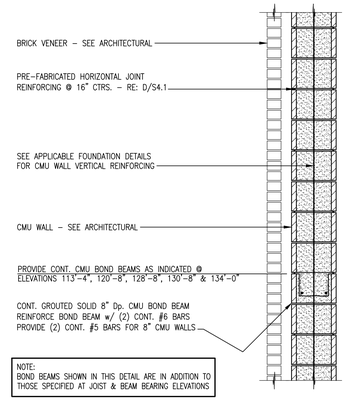
SECTION
SCALE: 3/4" = 1'-0"
1 S5.1



SECTION
SCALE: 3/4" = 1'-0"
2 S5.1



SECTION
SCALE: 3/4" = 1'-0"
3 S5.1

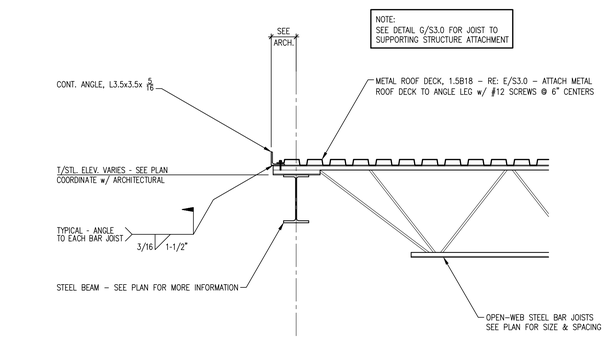


DETAIL
SCALE: 3/4" = 1'-0"
A S5.1

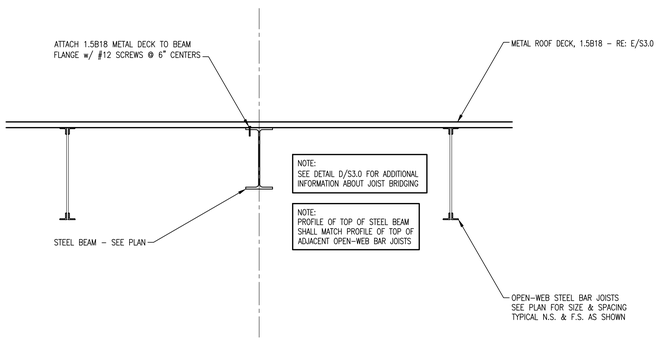
SECTION
SCALE: 3/4" = 1'-0"
4 S5.1

SECTION
SCALE: 3/4" = 1'-0"
5 S5.1

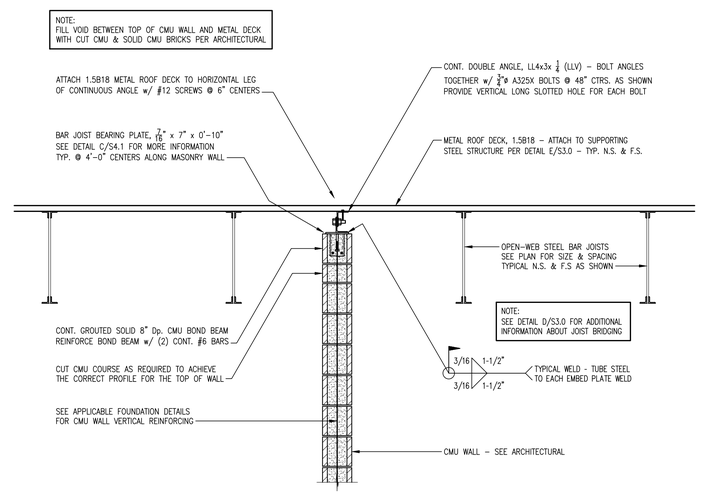
SECTION
SCALE: 3/4" = 1'-0"
6 S5.1



SECTION
SCALE: 3/4" = 1'-0"
7 S5.1



SECTION
SCALE: 3/4" = 1'-0"
8 S5.1



SECTION
SCALE: 3/4" = 1'-0"
9 S5.1

SHERMAN CARTER BARNHART
ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

OPEN-WEB STEEL BAR JOIST ROOF FRAMING SECTIONS and DETAILS

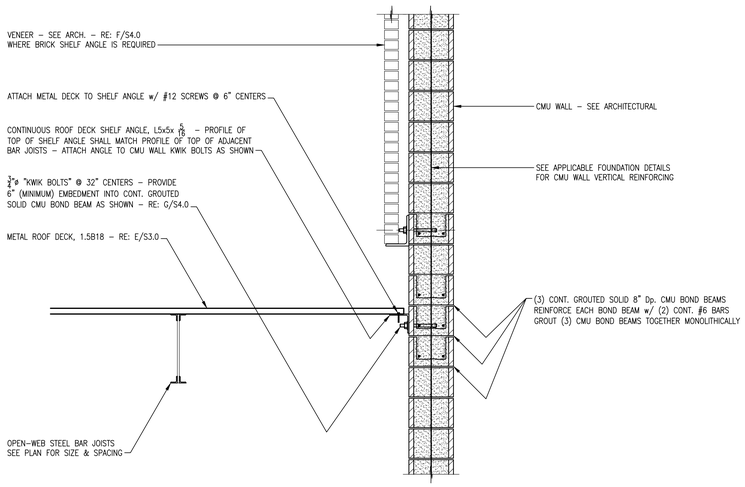
JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

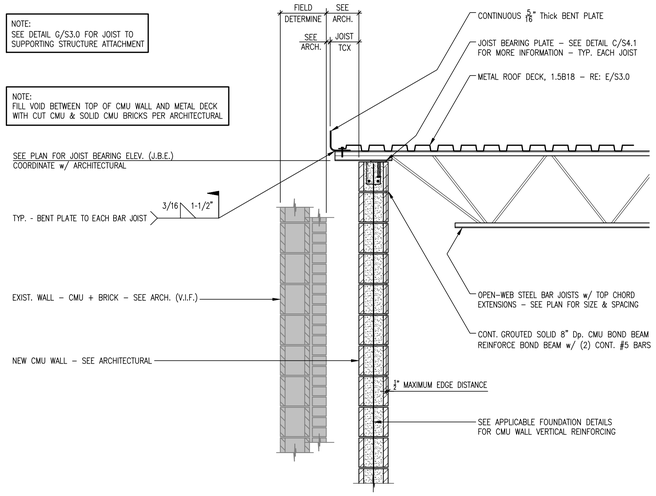
No.	Description	Date

SHEET
S5.1

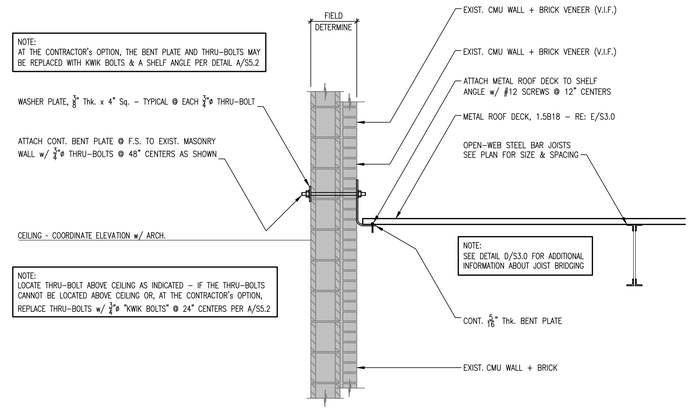
1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



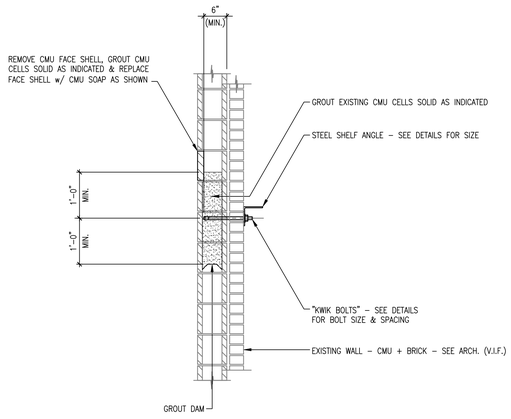
SECTION
SCALE: 3/4" = 1'-0"
1 S5.2



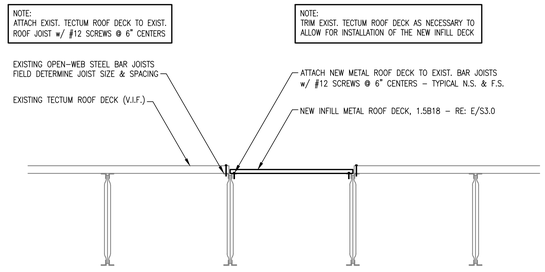
SECTION
SCALE: 3/4" = 1'-0"
2 S5.2



SECTION
SCALE: 3/4" = 1'-0"
3 S5.2

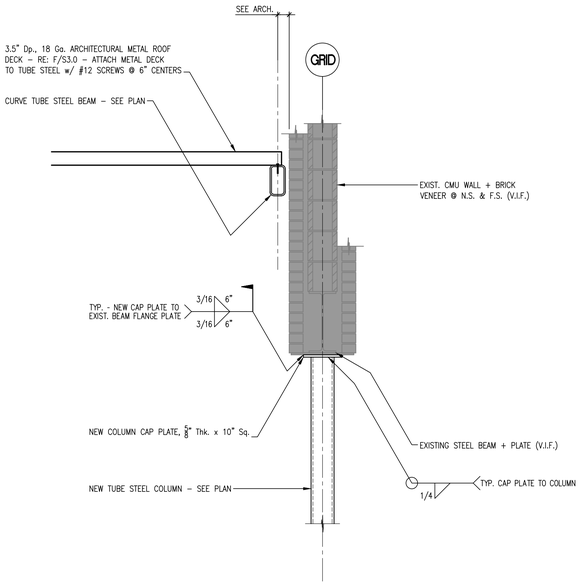


TYPICAL DETAIL
SCALE: 3/4" = 1'-0"
A S5.2



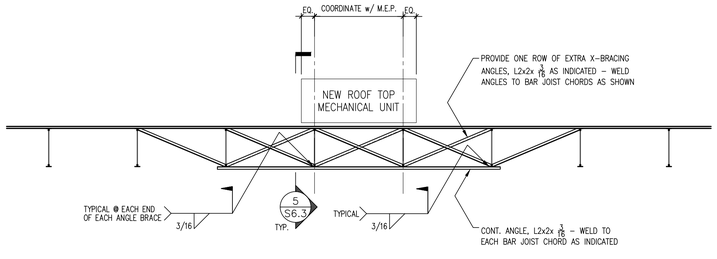
NEW INFILL METAL DECK AT EXISTING ROOF OPENINGS
SEE ARCHITECTURAL FOR OPENINGS TO BE INFILLED

TYPICAL DETAIL
SCALE: 3/4" = 1'-0"
B S5.2

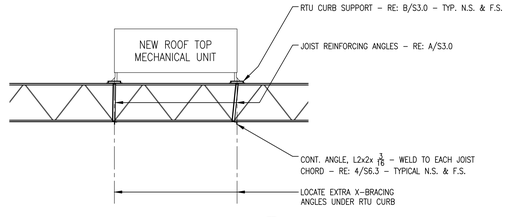


SHORING NOTE:
THE EXISTING MASONRY COLUMNS SUPPORTING THIS CANOPY ARE TO REMOVED AND REPLACED WITH THE NEW TUBE STEEL COLUMNS INDICATED IN THIS DETAIL (SEE PLAN). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SHORING EXISTING STRUCTURE TO REMAIN PRIOR TO REMOVING ANY EXISTING LOAD BEARING ELEMENT. SHORING SHALL REMAIN IN PLACE UNTIL AFTER INSTALLATION OF THE NEW COLUMNS HAS BEEN COMPLETED. THE CONTRACTOR SHALL CONVENE A MEETING PRIOR TO START OF CONSTRUCTION TO DISCUSS SHORING OF EXIST. STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL SUBMIT A SHORING PLAN (CONTAINING DETAILS & CALCULATIONS) TO ARCHITECT FOR REVIEW TWO (2) WEEKS PRIOR TO THIS MEETING. THE SHORING PLAN SHALL BE STAMPED AND SIGNED BY A LICENSED ENGINEER, REGISTERED IN THE COMMONWEALTH OF KENTUCKY & EXPERIENCED IN THIS TYPE OF WORK. THE ENGINEER RESPONSIBLE FOR SHORING PLAN SHALL ATTEND PRE-SHORING MEETING.

SECTION
SCALE: 3/4" = 1'-0"
4 S5.2



TYPICAL DETAIL
SCALE: 3/4" = 1'-0"
C S5.2



TYPICAL DETAIL
SCALE: 3/4" = 1'-0"
D S5.2

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

OPEN-WEB STEEL BAR JOIST ROOF FRAMING SECTIONS and DETAILS

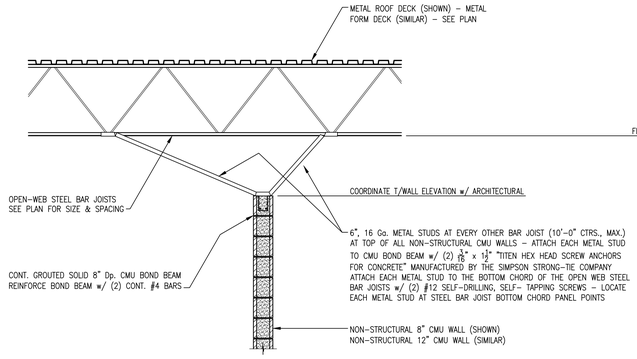
JOB NO.	1569
DATE	07/10/2019
DRAWN	grigga
CHECKED	WEG/BKL

REVISIONS

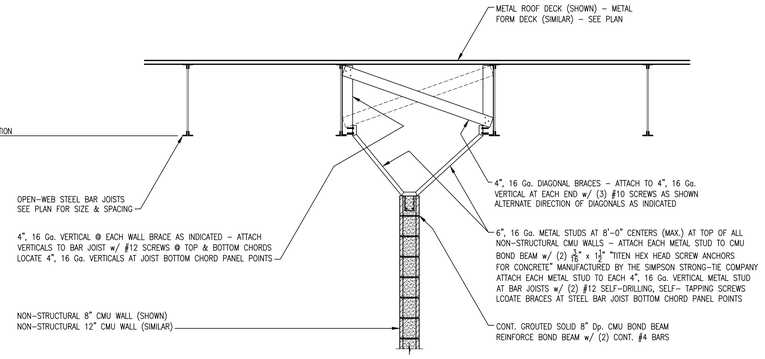
No.	Description	Date

SHEET
S5.2

1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



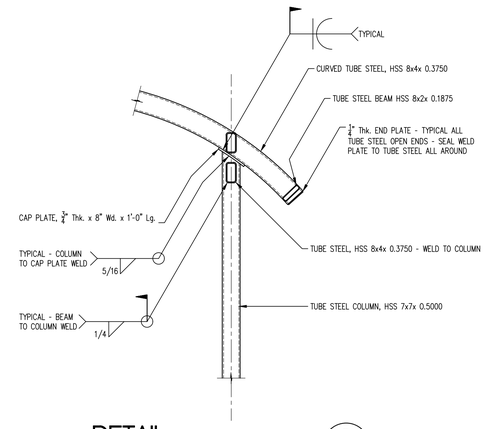
SEISMIC BRACING FOR NON–STRUCTURAL CMU WALLS



SEISMIC BRACING FOR NON–STRUCTURAL CMU WALLS

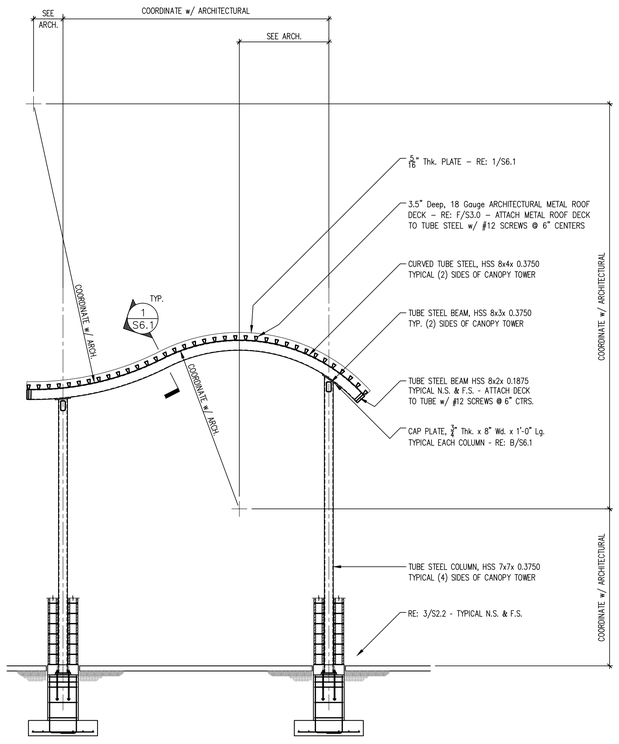
TYPICAL DETAIL
SCALE: 1/2" = 1'-0"

A S6.1



DETAIL
SCALE: 1/2" = 1'-0"

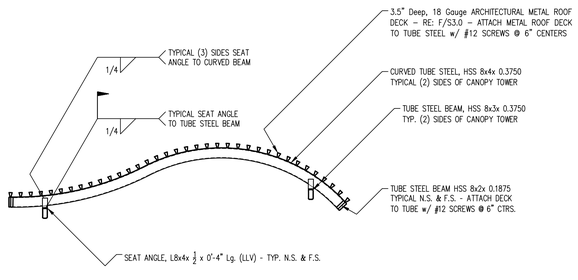
B S6.1



TOWER CANOPY

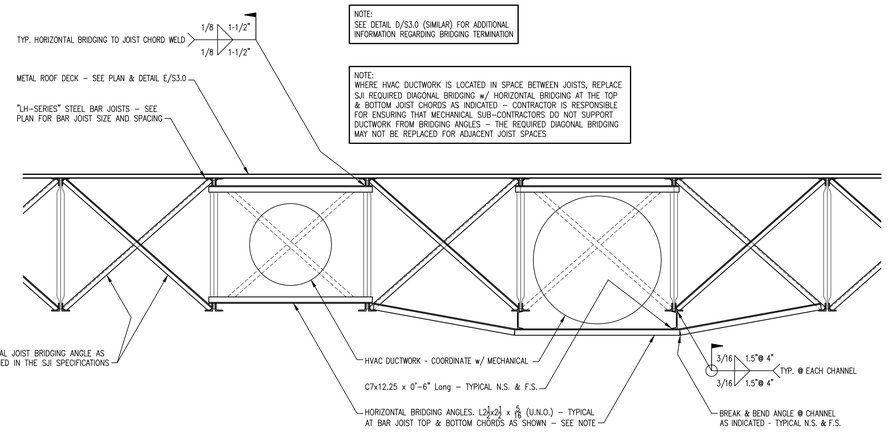
DETAIL
SCALE: 1/4" = 1'-0"

C S6.1



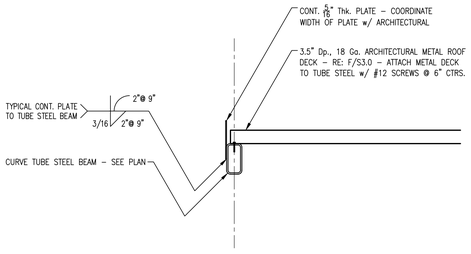
DETAIL
SCALE: 1/4" = 1'-0"

E S6.1



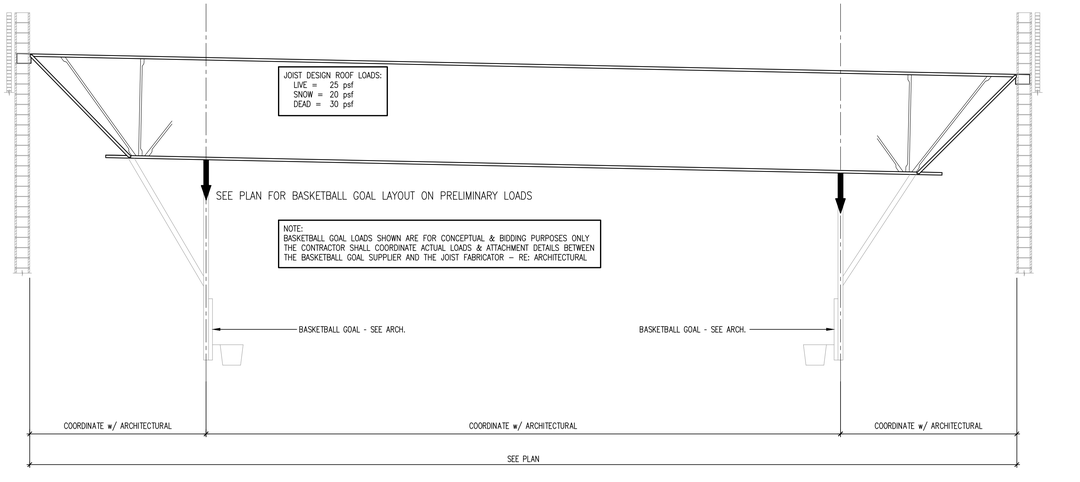
TYPICAL DETAIL
SCALE: 1/2" = 1'-0"

D S6.1



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

1 S6.1



GYMNASIUM JOIST LOADS

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

F S6.1

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY WILLIAM E. GRIGSBY, JR. 16114 LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MISCELLANEOUS STRUCTURAL FRAMING SECTIONS + DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs
CHECKED	WEG/BKL

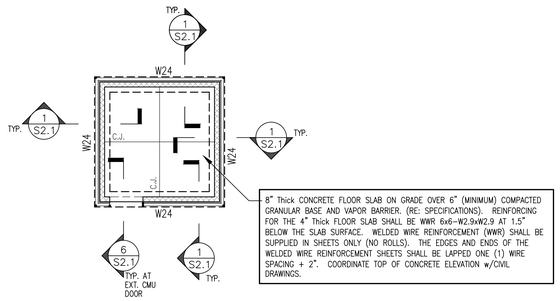
REVISIONS

No.	Description	Date

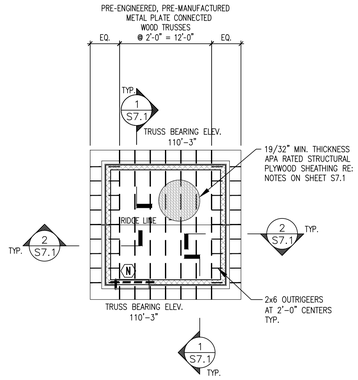
SHEET

S6.1

1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"
1 S7.1



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"
1 S7.1

1. WOOD FRAMING CONSTRUCTION:

A. THE CONSTRUCTION DETAILS USED IN ALL WOOD FRAMING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE "AMERICAN INSTITUTE OF TIMBER CONSTRUCTION" (AITC) AS WELL AS THE NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION PUBLISHED BY THE "AMERICAN FOREST & PAPER ASSOCIATION" (AFPA) AND THE "AMERICAN WOOD COUNCIL (AWC)", LATEST EDITION OF EACH.

B. ALL LUMBER USED IN STRUCTURAL FRAMING ON THIS PROJECT SHALL BE OF A SPECIES AND GRADE SUCH THAT THE FOLLOWING MINIMUM DESIGN VALUES FOR A 2x6 ARE MET:

ALLOWABLE BENDING STRESS, Fb	=	1,250 psi (SINGLE USE)
MODULUS OF ELASTICITY, E	=	1,600,000 psi

C. SUBJECT TO APPROVAL, SOUTHERN YELLOW PINE (SYP) No. 2 WILL MEET THE REQUIREMENTS FOR STRUCTURAL FRAMING LUMBER LISTED ABOVE.

D. LUMBER USED IN STRUCTURAL FRAMING SHALL BE "VISUALLY GRADED" AND CERTIFIED TO MEET THE DESIGN VALUES LISTED IN NOTES B ABOVE.

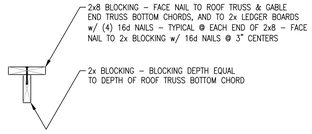
E. ALL METAL FRAMING CONNECTORS SHOWN ON THE DRAWINGS SHALL BE THE PRODUCTS OF THE "SIMPSON STRONG–TIE COMPANY, INC.; 2600 INTERNATIONAL STREET; COLUMBUS, OHIO 43228" (OR APPROVED EQUAL). METAL FRAMING CONNECTORS TO BE USED WITH PRESSURE TREATED LUMBER THAT IS EXPOSED TO WEATHER SHALL BE HOT–DIPPED GALVANIZED TO THE REQUIREMENTS OF ASTM A653 G185 (1.85 OUNCES OF ZINC PER SQUARE FOOT) ON BOTH SIDES. SUBJECT TO APPROVAL, SIMPSON STRONG–TIE "ZMAX" FRAMING CONNECTORS MEET THIS REQUIREMENT. ALL METAL FRAMING CONNECTORS SHALL BE APPROPRIATE FOR THE CONNECTION UNDER CONSIDERATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER's INSTRUCTIONS AND SPECIFICATIONS.

F. ROOF SHEATHING FOR THIS PROJECT SHALL BE APA RATED STRUCTURAL SHEATHING – 32/16, EXPOSURE 1, TONGUE & GROOVE, 48" x 96" SHEETS WITH LONG DIMENSION PERPENDICULAR TO THE ROOF FRAMING (TRUSSES, RAFTERS OR ROOF JOISTS). ROOF SHEATHING SHALL BE NAILED TO ROOF FRAMING w/ 10d NAILS @ 6" CENTERS ALONG SUPPORTED EDGES OF SHEETS AND @ 12" CENTERS ALONG INTERMEDIATE ROOF FRAMING. $\frac{19}{32}$" Thick PLYWOOD SHALL BE USED FOR ROOF SHEATHING. ORIENTED STRAND BOARD (OSB) IS NOT PERMITTED FOR USE AS ROOF SHEATHING.

G. WHERE "MICROLLAM" BEAMS ARE INDICATED ON PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL 1.9E MICROLLAM LVL MEMBERS OF THE SIZE SPECIFIED. MICROLLAM's SHALL BE THE PRODUCTS OF "TRUS JOIST, A WEYERHAEUSER BUSINESS; 6460 BUSCH BLVD., SUITE 200; COLUMBUS, OHIO 43229" OR APPROVED EQUAL. MICROLLAM INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER's SPECIFICATIONS.

H. ALL ENGINEERED WOOD PRODUCTS (MICROLLAMS) USED ON THIS PROJECT SHALL BE HANDLED, STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER's RECOMMENDATIONS AND SPECIFICATIONS. ENGINEERED WOOD PRODUCTS SHALL NOT BE FIELD MODIFIED IN ANY WAY WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRODUCT MANUFACTURER AND THE ARCHITECT.

K. WHERE A UL RATED ASSEMBLY IS REQUIRED PER THE ARCHITECTURAL DRAWINGS, SHEATHING THICKNESS, AS WELL AS FASTENER SIZE AND SPACING SHALL BE THE MORE RESTRICTIVE BETWEEN THAT SPECIFIED IN THE STRUCTURAL DRAWINGS OR BY THE UL ASSEMBLY REQUIREMENTS.



DETAIL
SCALE: 1" = 1'-0"
A S7.1

2 METAL PLATE CONNECTED WOOD TRUSSES:

A. ALL PRE–ENGINEERED, PRE–FABRICATED, METAL–PLATE CONNECTED WOOD TRUSSES ON THIS PROJECT SHALL BE DESIGNED, FABRICATED, HANDLED AND ERECTED IN ACCORDANCE WITH RECOMMENDATIONS, REQUIREMENTS AND SPECIFICATIONS OUTLINED IN THE PUBLICATIONS OF THE "TRUSS PLATE INSTITUTE" (TPI), LATEST EDITION.

B. STRUCTURAL DESIGN OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE "AMERICAN INSTITUTE OF TIMBER CONSTRUCTION" (AITC) AND THE "NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION" PUBLISHED BY THE "AMERICAN FOREST & PAPER ASSOCIATION" (AFPA) AND THE "AMERICAN WOOD COUNCIL" (AWC), LATEST EDITION OF EACH.

★★C. PER PARAGRAPH 1704.2.5 OF THE KENTUCKY BUILDING CODE, SPECIAL INSPECTIONS ARE REQUIRED ON THE PREMISES OF THE SHOP FABRICATING WOOD TRUSSES FOR THIS PROJECT. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION FIRM (HEREINAFTER REFERED TO AS THE "INSPECTOR") TO PERFORM THESE INSPECTIONS. THE FAB SHOP SHALL RE–IMBURSE THE OWNER FOR THE COSTS OF THESE SPECIAL INSPECTIONS. WOOD TRUSS FABRICATION SHOPS THAT ARE MEMBERS OF THE WOOD TRUSS COUNCIL (WTC) OR THE TRUSS PLATE INSTITUTE (TPI) ARE DEEMED TO MEET THE EXCEPTION IN 1704.2.5.1 & 1704.2.5.2 OF THE KENTUCKY BUIILDING CODE AND ARE EXEMPT FROM THIS REQUIRMENT. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION COCUMENTS.

D. THE FRAMING PLANS AND TRUSS CONFIGURATIONS SHOWN ON CONTRACT DOCUMENTS ARE FOR CONCEPTUAL PURPOSES ONLY. THE ACTUAL LAYOUT AND CONFIGURATIONS OF THE WOOD TRUSSES ON THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE TRUSS FABRICATOR's "TRUSS DESIGN ENGINEER" (TDE) WITH ADVICE AND CONSENT OF THE STRUCTURAL ENGINEER OF RECORD (SER). THE TDE IS RESPONSIBLE FOR PRODUCING A ROOF FRAMING PLAN AND TRUSS CONFIGURATIONS THAT WILL ACHIEVE THE APPEARANCE OF THE ROOF AS SHOWN AND DETAILED ON THE ARCHITECTURAL DRAWINGS.

E. THE TOP AND BOTTOM CHORDS OF THE WOOD TRUSSES SHALL BE FABRICATED USING LUMBER OF A SPECIES, GRADE AND MOISTURE CONTENT SUCH THAT THE FOLLOWING MINIMUM DESIGN VALUES FOR A SINGLE MEMBER ARE MET:

ALLOWABLE BENDING STRESS, Fb	=	1,650 psi
MODULUS OF ELASTICITY, E	=	1,600,000 psi

F. LUMBER USED TO FABRICATE THE TOP & BOTTOM CHORDS OF WOOD TRUSSES SHALL BE MACHINE STRESS RATED (MSR) AND CERTIFIED TO MEET THE DESIGN VALUES LISTED ABOVE. THE GRADE OF LUMBER USED TO FABRICATE TRUSS WEB MEMBERS SHALL BE AT THE TRUSS FABRICATOR's OPTION.

G. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED GRAVITY LOADS:

TOP CHORD LIVE LOAD (U.N.O.)	20 psf
TOP CHORD DEAD LOAD	20 psf
BOTTOM CHORD LIVE LOAD	10 psf
BOTTOM CHORD DEAD LOAD	10 psf

H. THE TRUSSES SHALL BE DESIGNED FOR WIND AND / OR SEISMIC LOADS IN ACCORDANCE WITH CHAPTER 16 OF THE KENTUCKY BUILDING CODE (KBC), LATEST EDITION.

J. THE TRUSS DESIGN ENGINEER (TDE) SHALL FURNISH DETAILS FOR ALL BRACING, BRIDGING AND OTHER MISCELLANEOUS FRAMING REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY AND STABILITY OF THE WOOD TRUSSES.

K. PRIOR TO TRUSS FABRICATION, THE CONTRACTOR SHALL COORDINATE BETWEEN THE TRUSS DESIGN ENGINEER (TDE) AND ALL SUB–CONTRACTORS TO ENSURE THAT ALL FIELD ATTACHMENTS (e.g. MECHANICAL, ELECTRICAL, PLUMBING, ETC.) THAT IMPART SIGNIFICANT LOADS (i.e. LOADS > 200 POUNDS) TO THE WOOD TRUSSES ARE BROUGHT TO THE ATTENTION OF THE TDE. SIGNIFICANT LOADS,(MECHANICAL, ELECTRICAL, PLUMBING, ETC.) SHALL BE ATTACHED TO THE WOOD TRUSSES AT TRUSS PANEL POINTS ONLY. THE TDE SHALL FURNISH SUITABLE DETAILS TO BE USED IN ATTACHING LOADS TO THE WOOD TRUSS.

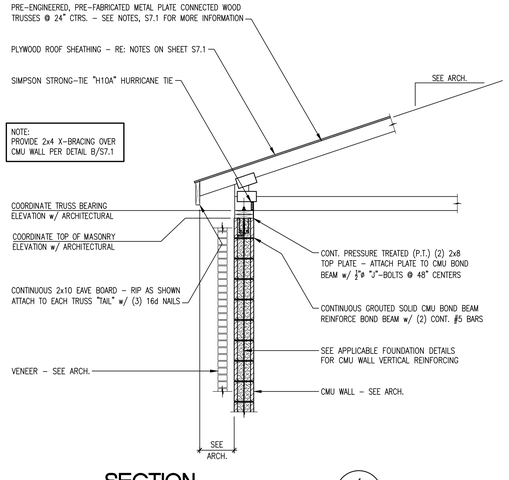
L. THE CONTRACTOR SHALL COORDINATE BETWEEN TRUSS SUPPLIER & M.E.P. SUB–CONTRACTOR TO ENSURE THAT NO CONFLICTS OCCUR BETWEEN TRUSSES AND UTILITIES. THE TRUSS LAYOUT SHALL PROVIDE FOR ADEQUATE CLEARANCE FOR WATER CLOSET SOIL LINES, MOP SINK DRAINS, ETC.

M. THE TRUSS DESIGN ENGINEER (TDE) SHALL DESIGN AND DETAIL ALL TRUSS TO GIRDER TRUSS CONNECTIONS, TRUSS TO RIDGE TRUSS CONNECTIONS, RIDGE TRUSS TO GIRDER TRUSS CONNECTIONS, ETC. THE METAL PLATE CONNECTED WOOD TRUSS FABRICATOR SHALL FURNISH ALL HARDWARE NECESSARY TO MAKE THE CONNECTIONS.

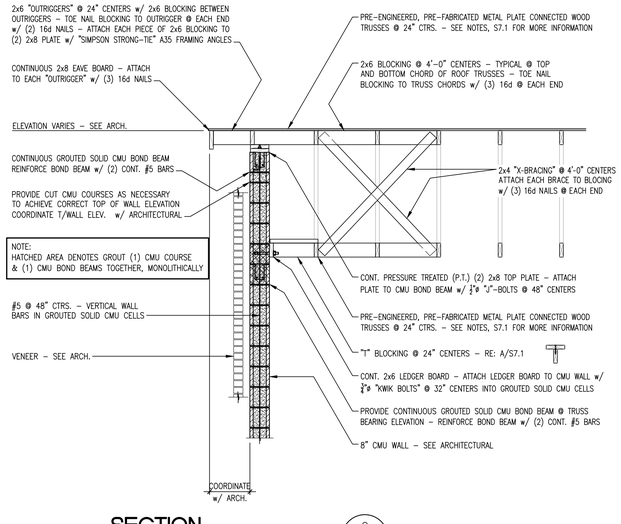
N. THE TRUSS FABRICATOR SHALL DETAIL AND FURNISH ALL VALLEY TRUSS SETS AND / OR OVERLAY FRAMING NECESSARY TO ACHIEVE THE ROOF LINES SHOWN ON THE ARCHITECTURAL DRAWINGS.

P. THE TRUSS FABRICATOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ALL WOOD TRUSSES TO THE ARCHITECT FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE PREPARED, STAMPED AND SIGNED BY THE TRUSS DESIGN ENGINEER (TDE). THE TDE SHALL BE A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE COMMONWEALTH OF KENTUCKY AND EXPERIENCED IN STRUCTURAL ENGINEERING.

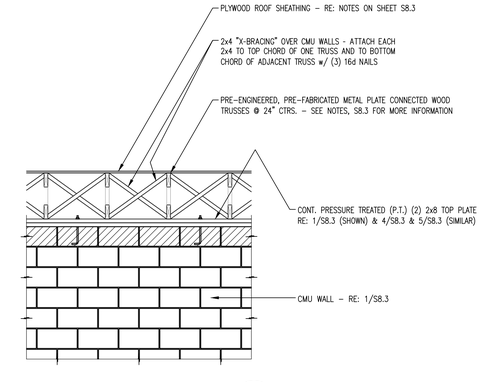
Q. THE TRUSS FABRICATOR IS RESPONSIBLE FOR DELIVERY OF THE WOOD TRUSSES TO THE JOB SITE. THE GENERAL CONTRACTOR SHALL RECEIVE, UNLOAD, PROPERLY STORE AND PROTECT THE TRUSSES IN ACCORDANCE WITH THE FABRICATOR's INSTRUCTIONS OR WITH THE TERMS OF THE SPECIFICATIONS; WHICHEVER HAS THE MORE STRINGENT REQUIREMENTS.



SECTION
SCALE: 1/2" = 1'-0"
1 S7.1



SECTION
SCALE: 1/2" = 1'-0"
2 S7.1



DETAIL
SCALE: 1/2" = 1'-0"
B S7.1

1569
PAYNEVILLE ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM E. GRIGSBY, JR.
16114
LICENSED PROFESSIONAL ENGINEER

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PUMP HOUSE PLANS, SECTIONS and DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	griggs
CHECKED	WEG/BKL

REVISIONS

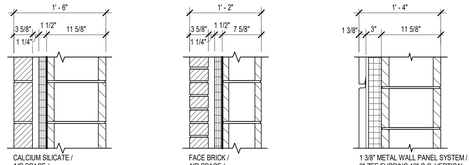
No.	Description	Date

SHEET
S7.1

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
&	AND
A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
ACT	ACTUAL
ADA	AMERICANS WITH DISABILITIES ACT
ADJ.	ADJUST, ADJUSTABLE
ADH.	ADHESIVE
A.F.F.	ABOVE FINISH FLOOR
AGG.	AGGREGATE
AHU	AIR HANDLING UNIT
ALUM.	ALUMINUM
ANCH.	ANCHOR
AP	ACCESS PANEL
APPROX.	APPROXIMATE
ASSY	ASSEMBLY
AUTO	AUTOMATIC
BD.	BOARD
BTWN.	BETWEEN
BEV.	BEVELED
BIT.	BITUMINOUS
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BOT. OR BTM.	BOTTOM
BUR	BUILT UP ROOFING
BRG. OR BRNG.	BEARING
CAB.	CABINET
CB	CATCH BASIN, CHALKBOARD
C/C	CENTER TO CENTER (SAME MEANING AS OC)
CEM	CEMENT
C.T.	CERAMIC TILE
CF	CUBIC FEET
CFI	CONTRACTOR FURNISHED AND INSTALLED
CHAN	CHANNEL
CI	CAST IRON
CJ	CONTROL JOINT
CLG.	CEILING
CLOS	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
COND	CONDITION, CONDENSER, CONDENSATE
CONST.	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORRUG	CORRUGATED
CR	COLD ROLLED
CSG	CASING
CTSK	COUNTERSINK
CU	CUBIC
CULV	CULVERT
C.W.	COLD WATER, CLOCKWISE
CY	CUBIC YARD
DBL	DOUBLE
DEP	DEPRESSED
DET.	DETAIL
DF	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DO	DITTO
DS	DOWNSPOUT
DWG.(S)	DRAWING(S)
EA.	EACH
EJ	EXPANSION JOINT
EL. OR ELEV.	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
ENT	ENTRANCE
EQ.	EQUAL
EQUIV	EQUIVALENT
ESMT	EASEMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER (SEE MECH DWGS)
EXIST. OR EX.	EXISTING
EDS	EXISTING DOWNSPOUT
EXP.	EXPANSION
EXT.	EXTERIOR
FAB	FABRICATE
FC	FIRE CODE
FD	FLOOR DRAIN (SEE MECH DWGS)
FDN.	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F.F.E.	FINISHED FLOOR ELEVATION
FH	FULL HEIGHT
FIN.	FINISH, FINISHED
FL.	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FRT	FIRE RETARDANT TREATED
FTG.	FOOTING
FURR.	FURRING
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GEN	GENERATOR
GF CMU	GROUND FACE CONC. MAS. UNIT
GI	GALVANIZED IRON
GFI	GROUND FAULT INTERRUPT
GL	GLASS, GLAZING
GLUE LAM	GLUE-LAMINATED
GND	GROUND
GR	GRADE
GST	GLAZED STRUCTURAL TILE
GYP.	GYPSUM
H	HIGH
HARD	HARDENED
HB	HOSE BIB
HC	HOLLOW CORE
HD BD	HARD BOARD
HC	HANDICAPPED
HDR	HEADER
HDWE	HARDWARE
HD WD	HARDWOOD
HEX	HEXAGONAL
HT.	HEIGHT
HOL	HOLLOW
H.M. OR H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HP	HORSEPOWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER, HARD WHITE
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
JST.	JOIST
JT	JOINT
KBC	KENTUCKY BUILDING CODE
L	ANGLE, LONG
LAM.	LAMINATE
LF	LIGHT FIXTURE, LINEAR FEET
LH	LEFT HAND
LLV	LONG LEG VERTICAL
LOC	LOCATION
LT	LIGHT
LTWT	LIGHTWEIGHT
MAS.	MASONRY
MATL	MATERIAL
MAX.	MAXIMUM
MB	MARKER BOARD
MC	MISCELLANEOUS CHANNEL
MDO	MEDIUM DENSITY OVERLAY
MECH.	MECHANICAL
MED.	MEDIUM, MEDICINE
MTL.	METAL
MFR.	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM, MINUTE
MISC.	MISCELLANEOUS
ML & P	METAL LATH AND PLASTER
M.O.	MASONRY OPENING
MT.	MOUNT
MTD.	MOUNTED
MTG.	MOUNTING
MULL.	MULLION
NA	NOT APPLICABLE
NET	MEANS EXACT DIMENSION REQUIRED
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OFI	OWNER FURNISHED AND INSTALLED
OF-CI	OWNER FURNISHED, CONTRACTOR INSTALLED
O.H.	OPPOSITE HAND
OH	OVERHEAD
OPNG.	OPENING
OPP	OPPOSITE
PART	PARTITION
PART. BD.	PARTICLE BOARD
PASS	PASSAGE
PC	PRECAST
P/C	POURED CONCRETE
PERF	PERFORATED
PERIM	PERIMETER
PERP.	PERPENDICULAR
PF CMU	PREFACED CONC. MAS. UNIT
PH	PHASE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD.	PLYWOOD
POL	POLISHED
POLY CARB	POLYCARBONATE SHEET
PREFAB.	PREFABRICATED
PROJ.	PROJECT, PROJECTED
PR.	PAIR
PSMB	PENCIL SHARPENER BLOCK
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWG	POLISHED WIRE GLASS
+/-	PLUS OR MINUS
Q.T.	QUARRY TILE
R	RISER, RADIUS
R, OR RAD.	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECIRC	RECIRCULATE
REF	REFERENCE, REFER
REF.	REFRIGERATOR
REINF.	REINFORCE, REINFORCED, REINFORCING
REQD.	REQUIRED
RET.	RETAINING, RETURN
RESIL	RESILIENT
RH	RIGHT HAND, ROUND HEAD
R.O.	ROUGH OPENING
ROW OR R/W	RIGHT OF WAY
RRT	RAISED RADIAL TILE
SC	SOLID CORE
SCHD.	SCHEDULE
SECT	SECTION
SEP	SEPARATE, SEPARATION
SF	SQUARE FEET, SAND FILL
SHEATH	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
S.M.	SHEET METAL
SPA	SPACE(S)
SPEC(S).	SPECIFICATIONS
SPM	SINGLE-PLY MEMBRANE
SQ.	SQUARE
S.S.	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYMM	SYMMETRICAL
T	TREAD, THICK
TB	TACKBOARD
TC	TOP OF CURB
TCE	TOP OF CURB ELEVATION
TDS	TURNED DOWN SLAB
TEL	TELEPHONE
TFE	TOP OF FOOTING ELEVATION
T & G	TONGUE AND GROOVE
THK	THICK, THICKNESS
THRESH	THRESHOLD
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOL	TOILET
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TS	TACK STRIP, STRUCTURAL STEEL TUBING
TOW	TOP OF WALL
TYP.	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNFIN.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W	WIDE
W.R.	WATER RESISTANT
WWF	WELDED WIRE FABRIC
X	BY
YD	YARD

WALL / PARTITION SCHEDULE



CALCIUM SILICATE / AIR SPACE / 1 1/2" RIGID INSULATION / BITUMINOUS DAMPROOFING/ 12" (NOM.)CMU

4" CMU IN LIEU OF CALCIUM SILICATE AT BELOW GRADE LOCATIONS (GROUT SOLID)

A

FACE BRICK / AIR SPACE / 1 1/2" RIGID INSULATION / BITUMINOUS DAMPROOFING/ 8" (NOM.)CMU

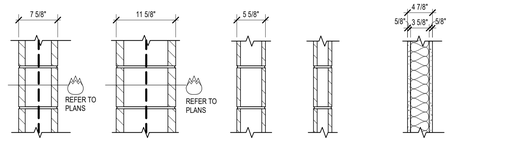
4" CMU IN LIEU OF BRICK AT BELOW GRADE LOCATIONS (GROUT SOLID)

B

1 3/8" METAL WALL PANEL SYSTEM / 3" ZEE FURRING 16" O.C. VERTICAL, W/ 2 1/2" RIGID INSULATION / 12" (NOM.) CMU

C

EXTERIOR WALL TYPES



8" (NOM.) CMU

1

12" (NOM.) CMU

2

6" (NOM.) CMU

3

4" (NOM.) CMU

4

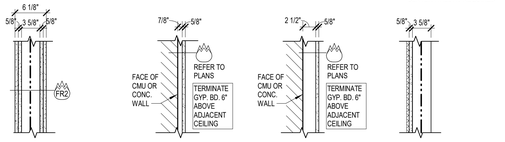
5/8" GYP. BD./ 3 5/8" MTL. STUDS @ 16" O.C./ SOUND BATT INSULATION/ 5/8" GYP. BD./

5/8" GYP. BD. FIN. SIDE/ 3 5/8" MTL. STUDS @ 16" O.C.

5*

BRACE TO EXISTING MEDIA CENTER WALL AS REQUIRED

5



(2) LAYERS 5/8" TYPE "X" GYP. BD./ 3 5/8" MTL. STUDS @ 16" O.C./ SOUND / (2) LAYERS 5/8" TYPE "X" GYP. BD.

6

NEW OR EXIST WALL / 7/8" METAL FURRING / 5/8" GYP. BD.

7

NEW OR EXIST WALL / 2 1/2" METAL FURRING / 5/8" GYP. BD.

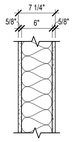
8

BRACE TO EXISTING MEDIA CENTER WALL AS REQUIRED

TILE / 5/8" CEMENT BACKER BD. / 3 5/8" MTL. STUDS @ 16" O.C.

9

BRACE TO EXISTING MEDIA CENTER WALL AS REQUIRED



5/8" GYP. BD./ 6" MTL. STUDS @ 16" O.C./ SOUND BATT INSULATION/ 5/8" GYP. BD./

10

INTERIOR WALL TYPES

PARTITION TYPE GENERAL NOTES:

P1 - INDICATES PARTITION. IF NO DIMENSION NOTED,EXTEND PARTITIONS FULL HEIGHT TO UNDERSIDE OF DECK, U.N.O.

P2 - 0'-0" WALL PARTITION HEIGHT

P3 ALL EXTERIOR WALLS ARE WALL TYPE A UNLESS NOTED OTHERWISE.

P4 ALL INTERIOR WALLS ARE WALL TYPE 1 UNLESS NOTED OTHERWISE.

P5 UNLESS INDICATED OTHERWISE PARTITION TYPES ARE INDICATED ON PLANS, SECTIONS & DETAILS.

P6 INTERIOR PARTITION TYPES ARE IDENTIFIED BY NUMBER AND EXTERIOR WALL ASSEMBLY TYPES BY LETTER.

P7 AT CONDITIONS WHERE MORE THAN ONE WALL TYPE IS INDICATED (I.E. 1 3 8) REFER TO REFERENCED SECTIONS, ELEVATIONS AND DETAILS FOR CLARIFICATION.

P8 PROVIDE SPECIFIED CLOSURES AND INSTALL INSULATION/FIRESAFING BETWEEN DECK FLUTES AND MASONRY PARTITIONS TO ACHIEVE FULL AND COMPLETE CLOSURE OF ALL VOIDS AT TOP OF WALLS INDICATED TO EXTEND FULL HEIGHT.

P9 PARTITION TYPES SHALL MAINTAIN THEIR RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC. AND PLUMBING PENETRATIONS SHALL BE SEALED / SAFED / DAMPERED AS REQUIRED TOCOMPLY WITH APPLICABLE CODES.

P10 PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS.
(A) FULL-HEIGHT NON-RATED WALLS: FILL VOIDS WITH BATT INSULATION.
(B) RATED FULL HEIGHT WALLS: FILL VOIDS WITH FIRE SAFING AND INSTALL BACKER ROD AND FIRE RATED SEALANT ON EACH SIDE OF WALL.
(C) FULL HEIGHT UNRATED INCIDENTAL USE SEPARATION PARTITIONS: FILL VOIDS WITH INSULATION AND INSTALL BACKER ROD AND SEALANT ON EACH SIDE OF WALL.

P11 ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUDS, OR TO CENTERLINE OF STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.

P12 REFER TO DETAILS FOR TYPICAL CMU WALL / PARTITION INTERSECTION REQUIREMENTS.

P13 REFER TO WALL SECTIONS AND MISCELLANEOUS DETAILS FOR WALL TRANSITIONS ABOVE ADJACENT ROOF LEVELS - I.E.: BRICK LEDGES, CMU WIDTH AND WALL TYPE TRANSITIONS.

P14 BULLNOSE CMU SHALL BE USED AT ALL OUTSIDE CORNERS, (U.N.O.). DELETE BULLNOSE AT FIRST COURSE OF MASONRY. REFER TO DETAIL 4/A5.3.

P15 ALL MASONRY SHALL BE INSTALLED WITH GALVANIZED HORIZONTAL MASONRY REINFORCEMENT AT EVERY OTHER VERT MASONRY COURSE. PROVIDE MASONRY REINFORCEMENT AT EACH COURSE AT PARAPETS

P16 REFER TO STRUCT DWGS FOR REQUIREMENTS AND LOCATIONS OF WALLS TO RECEIVE VERTICAL REINFORCING.

P17 REFER TO STRUCT DWGS FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY.

P18 PROVIDE CAVITY VENTS ABOVE MORTAR NET @ 48" O.C. AND @ TOP OF WALL CAVITY @ 48" O.C. TO ALLOW FOR PROPER VENTING OF WALL.

P19 CONCRETE MASONRY UNIT INSTALLED AT EXTERIOR WALLS SHALL RECEIVE APPLICATION OF SPECIFIED DAMPPROOFING ON CAVITY FACE.

P20 CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHERTIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR WHERE FLASHING IS INDICATED OR REQUIRED.
(A) KEEP ALL CAVITIES FREE OF MORTAR.
(B) PROVIDE WEEPS ON TOP OF THRU-WALL FLASHING AT 16" O.C. HORIZONTAL. DO NOT ALLOW THEM TO BECOME CLOSED-OFF.
(C) PROVIDE SPECIFIED APPLICATION OF DAMPPROOFING REPELLENT ON CAVITY FACE OF CONCRETE MASONRY UNIT. PROVIDE SPECIFIED WATER REPELLENT ON FACE BRICK AND OTHER EXTERIOR MASONRY.
(D) TOOL ALL MORTAR JOINTS AT THE PROPER TIME TO CONSOLIDATE THE SURFACE AND REDUCE WATER INFILTRATION.
(E) INSTALL MORTAR NETTING AT ALL THROUGH FLASHING LOCATIONS.
(F) PRIOR TO APPLICATION OF DAMP-PROOFING, CONTRACTOR TO SEAL ALL CONTROL JOINTS, EXPANSION JOINTS & PENETRATIONS IN CMU.

P21 WHERE NEW FINISHES NOTED FOR ROOMS INTERIOR MASONRY AND/OR GYPSUM BOARD EXPOSED TO VIEW SHALL BE PAINTED. UNLESS NOTED OTHERWISE. REFER TO ROOM FINISH GROUPS GYP. BD. AND CMU BEHIND CUBBIES, CASEWORK, ETC. SHALL BE MUD, TAPED,& PRIME PAINTED MIN.

P22 REFER TO ROOM FINISH GROUPS FOR BASE REQUIREMENTS @ FLOOR FINISH

P23 AT NEW EXTERIOR WALLS, PARTITIONS SHALL BE EXTENDED TIGHT TO FLOOR AND/OR ROOF DECKS, INCLUDING AROUND ALL PENETRATIONS SUCH AS BEAM, JOIST ENDS, AND ETC. FILLING VOIDS IN EXT CMU BACK-UP WITH INSULATION IN LIEU OF A SOLID MASONRY ENCLOSURE SHALL NOT BE PERMITTED.

P24 REFER TO PARTITION DETAILS SHEET A5.3 FOR SPECIFIC CONNECTION AND ATTACHMENT/ BRACING OF NON-LOAD BEARING INTERIOR PARTITION WALL TO STRUCTURE/ DECK ABOVE.

P25 REFER TO DETAIL 10/A5.3 FOR TYPICAL BASE FLASHING DETAILS.

SIGNAGE GENERAL NOTES

1. SIGNS "A" VS. SIGNS "C" TO BE VERIFIED AT TIME OF SUBMITTAL AS SOME ROOMS MAY OMIT ROOM NUMBER ALTOGETHER.
2. CHARACTERS SHOWN ON THIS SHEET ARE COMPUTER GENERATED. SPACING OF CHARACTERS IS NOT ACCURATE. CORRECT "VISUAL" SPACING IS THE RESPONSIBILITY OF THE MFR.
3. PICTOGRAMS ARE SHOWN HEREIN FOR INFORMATION AND INTENT ONLY. MECHANICAL, CAMERA - READY ARTWORK SHALL BE SUPPLIED BY THE SIGNAGE CONTRACTOR.
4. COLORS OF PANEL SIGNS TO BE SELECTED BY ARCHITECT.
5. UNLESS OTHERWISE NOTED, ALL SIGNS TO BE MOUNTED BESIDE DOORS AT 60" A.F.F. TO TOP OF SIGN AND 2" FROM EDGE OF DOOR FRAME ON THE LATCH SIDE. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 FT OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. THE ARCHITECT SHALL BE CONSULTED BEFORE PLACEMENT OF SIGNAGE FOR LEFT-HAND AND RIGHT-HAND ORIENTATION OF SIGNS.
6. * = THREE CHARACTER NUMBER TO BE SUPPLIED BY ARCHITECT/OWNER.
7. ALL SIGNAGE SHALL MEET THE CURRENT REQUIREMENTS OF ADAAG OF THE AMERICANS WITH DISABILITIES ACT (ADA).
8. MESSAGE (COPY) TO BE DETERMINED BY ARCHITECT/OWNER.
9. PROVIDE (10) EXTRA SIGNS TYPE "C" FOR DIRECTIONAL SIGNAGE. OWNER TO SELECT LOCATION AND VERBIAGE.
10. UNLESS NOTED OTHERWISE, IF SIGNAGE OCCURS AT STRIKE SIDE OF DOOR ON A WINDOW, STOREFRONT, OR SIDELIGHT, MOUNT SIGN AT 60" A.F.F. TO TOP OF SIGN (OR LOWER, DEPENDING ON MULLION) AND ON FACE OF GLASS. PROVIDE BLANK SIGN ON BACKSIDE OF GLASS. ALIGN & MATCH COLOR.
11. ALL SIGNS TO BE 8" X 8", U.N.O.

ROOM FINISH GROUPS

GENERAL NOTES:

1. WHERE MORE THAN ONE FINISH IS LISTED REFER TO PLANS, SECTIONS, AND DETAILS.
2. REFER TO TYPICAL BASE DETAILS ON SHEET A5.3.
3. REFER TO TYPICAL FLOOR TRANSITION / THRESHOLD DETAILS, SHEET A8.1.
4. REFER TO REFLECTED CEILING PLAN, SHEETS A6.1 THRU A6.2 FOR CEILING INFORMATION.
5. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AT CEILINGS.
6. TOUCH UP PAINT TO MATCH EXISTING @ DEMOLITION AREAS

ROOM NAME - 1

FLOOR - VINYL COMP. TILE
BASE - 4" RESILIENT BASE
WALLS - (LATEX PAINT)

NOTE: AT RAMP 1, PROVIDE 12" X 12" RAISED RADIAL RUBBER TILE FLOORING AT STAIR PROVIDE RESILIENT TREADS AND RISERS

ROOM NAME - 2

FLOOR - CARPET
BASE - 4" RESILIENT BASE
WALLS - (LATEX PAINT)
NOTE: PLAN NORTH WALL TO HAVE ACCENT COLOR PAINT AND PLAN EAST AND WEST WALLS BETWEEN PILASTER SHALL HAVE CUSTOM VINYL WALL COVERING

ROOM NAME - 3

FLOOR - 6"x36" PORCELAIN TILE
BASE - 6"x36" PORCELAIN TILE
WALLS - 6"x6" PORCELAIN TILE FULL HEIGHT ALL WALLS
CEILING- REFER TO REFLECTED CEILING PLAN

NOTE: AT BOYS AND GIRLS RESTROOMS150 & 153, REFER TO 11 & 12 / A3.2 FOR WALL PATTERN
8" BASE AT BOYS AND GIRLS RESTROOMS150 & 153

ROOM NAME - 4

FLOOR - WOOD GYMNASIUM FLOOR
BASE - 6" VENTED RUBBER
WALLS - (LATEX PAINT)

ROOM NAME - 5

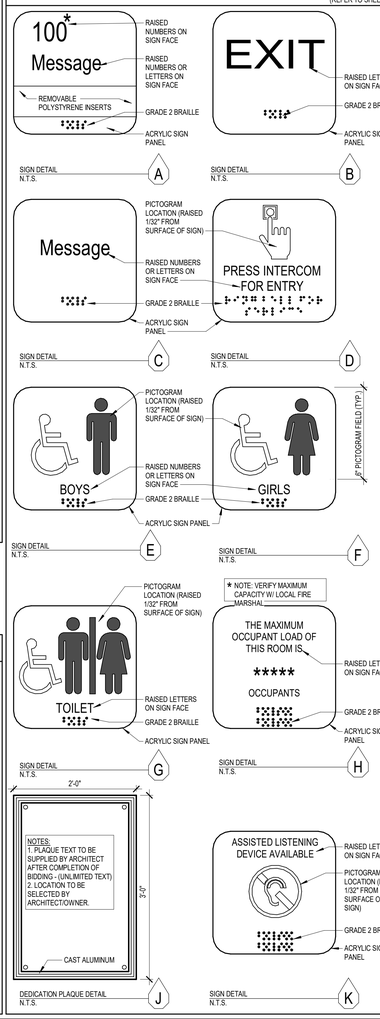
FLOOR - TINTED HARDENED CONCRETE W/ SEALER
BASE - NO BASE
WALLS - (LATEX PAINT)

ROOM NAME - 6

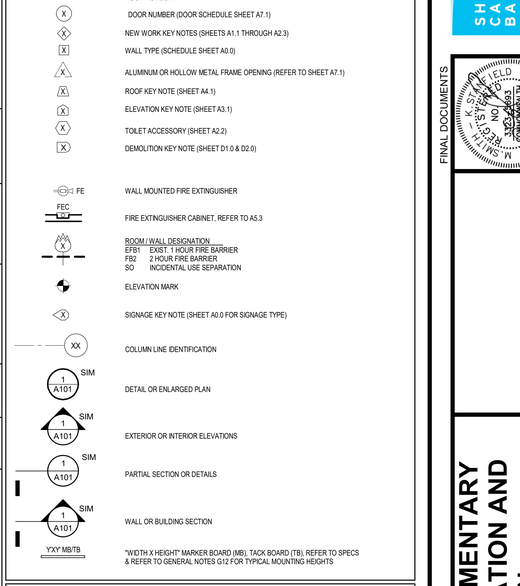
FLOOR - EXIST. - NO WORK REQ'D (U.N.O.)
BASE - EXIST. - NO WORK REQ'D (U.N.O.)
WALLS - EXIST. - NO WORK REQ'D (U.N.O.)

SIGNAGE

(REFER TO SHEET A1.1)



SYMBOLS LEGEND



GENERAL NOTES

G1 (NIC) MEANS NOT IN CONTRACT. TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER. (OFCI) MEANS OWNER FURNISHED CONTRACTOR INSTALLED.

G2 DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

G3 ALL DIMENSIONS SHOWN ARE TO FACE OF MASONRY, METAL STUDS, OR ICF FORM, OR CENTERLINE OF STRUCTURE. MASONRY DIMENSIONS ARE NOMINAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR SIDE OF FACE BRICK.

G4 REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 3/32" PLANS

G5 PROVIDE BULLNOSE UNITS AT ALL EXPOSED CONCRETE BLOCK CORNERS, UNLESS OTHERWISE NOTED. FIRST COURSE SHALL BE SQUARE BLOCK TO ACCEPT BASE, TYPICAL.

G6 ALL CONCEALED WOOD FRAMING AND PLYWOOD SHALL BE FIRE-RETARDANT TREATED (FRT) EXCEPT THAT NON-F.R.T. BLOCKING, NAILERS AND FURRING MAY BE USED WHERE INSTALLED IN ACCORDANCE WITH KBC CHAPTER 8 (INCLUDING DIMENSIONAL WOOD BLOCKING, FIRE BLOCKING, REQUIREMENTS, ETC.). WOOD BLOCKING INSTALLED IN ACCORDANCE WITH KBC SECTION 603 FOR HANDRAILS, MILLWORK, CABINETS, WINDOWS AND DOORS IS NOT REQUIRED TO BE F.R.T. AT COPINGS AND ROOFING TERMINATIONS ALL BLOCKING SHALL BE PRESSURE TREATED (PT). WHERE WOOD BLOCKING IS IN CONTACT WITH CMU, MASONRY OR CONCRETE, SUCH BLOCKING SHALL BE PRESSURE TREATED.

G7 REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZE, LOCATION, CONNECTIONS, REINFORCEMENT AND OTHER REQUIREMENTS PERTAINING TO STRUCTURAL COMPONENTS INDICATED.

G8 REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCING IN CMU WALLS, POURED CONCRETE SLABS AND FOUNDATIONS.

G9 REFER TO STRUCTURAL DRAWING FOR LINTEL INFORMATION.

G10 VERIFY REQUIRED DEPTH OF ALL RECESSED SLABS WITH APPROPRIATE MANUFACTURER PRIOR TO PLACEMENT OF SLAB.

G11 ALL CHANGES IN FLOOR FINISHES SHALL OCCUR AT DOOR THRESHOLDS - TYPICAL, U.N.O.

G12 MOUNTING HEIGHTS: (UNLESS NOTED OTHERWISE)
TB (TACK BOARD) - MOUNT TOP @ 6'-8" A.F.F.
MB (MARKER BOARD) - MOUNT TOP @ 6'-8" A.F.F.

G13 ALL CONTRACTORS SHALL REVIEW DWGS FOR MATERIALS AND MANUFACTURER'S MODEL NUMBERS LISTED ON DWGS.

G14 CONTACT BETWEEN DISSIMILAR METALS SHALL BE SEPARATED WITH BUTYL TAPE, OR OTHER APPROVED MEANS TO PREVENT GALVANIC CORROSION.

G15 CONTRACTOR SHALL PROVIDE ALL CONCEALED BLOCKING REQUIRED FOR ATTACHMENT AND SUPPORT OF EQUIPMENT, FIXTURES, WINDOWS, ETC.

G16 GYPSUM CEILING BOARD SHALL BE USED AT ALL HORIZONTAL APPLICATIONS OF GYPSUM BOARD.

G17 ALL EXPOSED CORNERS AND EDGES OF GYPSUM BOARD SHALL BE FINISHED WITH CORNER BEAD OR J-BEAD, RESPECTIVELY.

G18 IF INTERIOR PARTITION WALLS EXTEND FULL HEIGHT PROVIDE CLOSURE TO DECK OR ROOF W/ BATT INSULATION OR FIRE-SAFING AS REQUIRED. ANY ADJACENT A.F.F. DESIGNATION IDENTIFIES A SPECIFIC PARTITION HEIGHT.

G19 PARTITIONS TYPES ARE TO MAINTAIN THEIR RESPECTIVE SEPARATION/RATING (IF ANY) FULL HEIGHT, ALL HVAC, ELECTRICAL, PLUMBING PENETRATIONS ARE TO BE SEALED/ SAFED/ DAMPERED TO COMPLY WITH LOCAL CODES.

G20 CONTRACTOR SHALL VERIFY ALL ROUGH OPENING SIZES FOR WINDOWS AND DOORS AND COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE ARCHITECT.

G21 SYMBOLS THAT REPRESENT M&E ITEMS ON ARCHITECTURAL DRAWINGS ARE FOR GRAPHIC PURPOSES ONLY. REFER TO M&E DRAWINGS FOR SPECIFIC INFORMATION.

G22 ALL WOOD BLOCKING, NAILERS, SILL PLATES, ETC. IN CONTACT WITH SLABS-ON-GRADE OR EXTERIOR MASONRY OR CONCRETE SHALL BE PRESSURE-PRESERVATIVE TREATED (P.T.), REFER TO THE DRAWINGS FOR OTHER LOCATIONS WHERE P.T. WOOD IS REQUIRED.

G23 ALL P.T. WOOD COMPONENTS SHALL BE SEPARATED FROM CONTACT WITH ADJACENT METALS WITH PERMANENTLY AFFIXED NO. 15 FELT, SELF-ADHERING ELASTOMERIC MEMBRANE, OR OTHER SUCH PERMANENT NON-CORROSIVE SEPARATION MATERIAL.

G24 ALL ANCHORS, FASTENERS, ETC. IN CONTACT WITH P.T. WOOD COMPONENTS SHALL BE STAINLESS STEEL OR G-90 (MIN.) HOT-DIPPED GALVANIZED.

G25 SYMBOLS THAT REPRESENT STRUCTURAL ITEMS ON ARCHITECTURAL DRAWINGS ARE FOR GRAPHIC PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC INFORMATION.

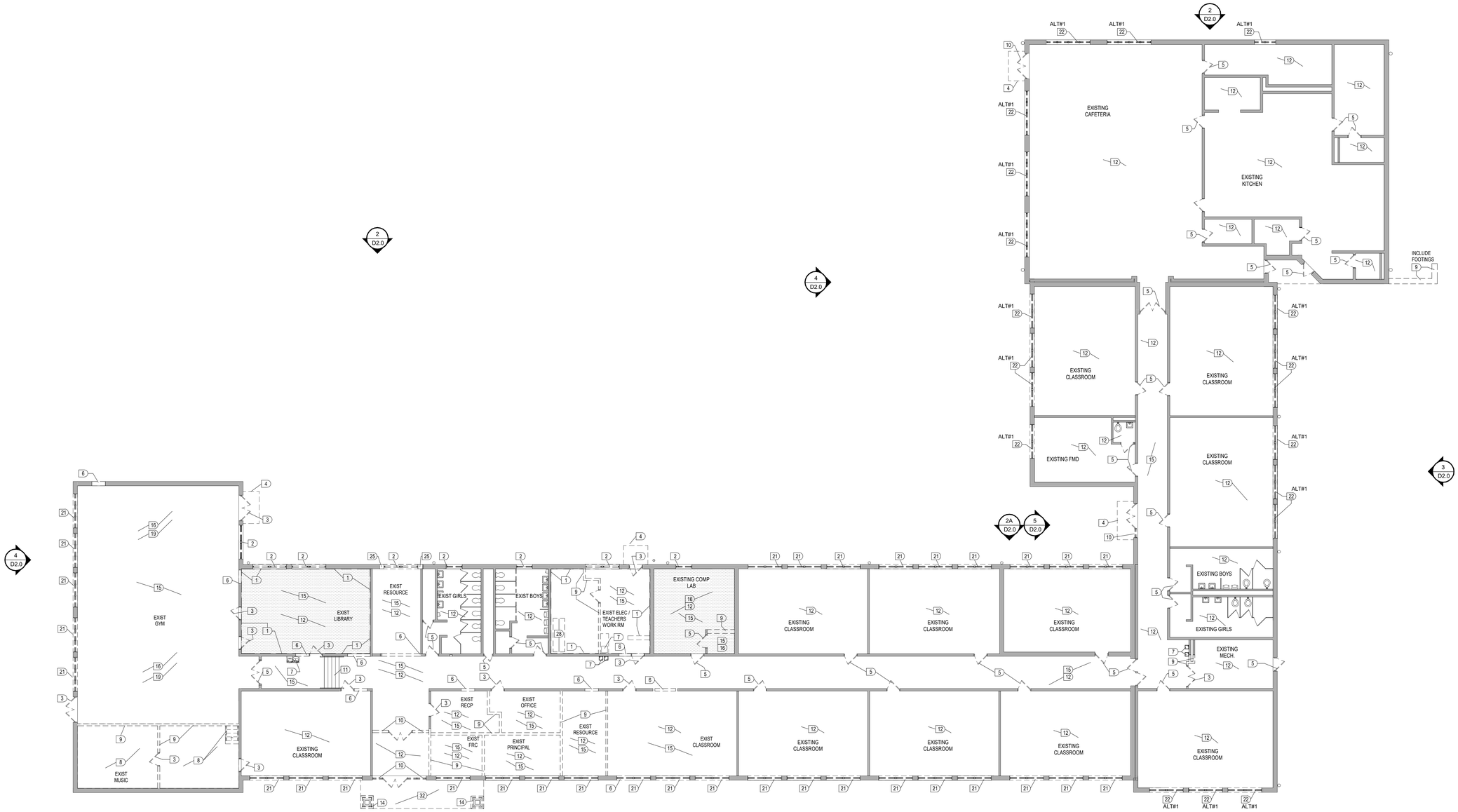
ALTERNATES

ALTERNATE # 1	REMOVE EXISTING WINDOWS IN THE 1998 AND 1999 PORTIONS OF BUILDING AND REPLACE WITH NEW ALUMINUM WINDOWS AS INDICATED ON DRAWINGS AND SPECS.
ALTERNATE #2	OWNER PREFERRED MANUFACTURES A. BEST-DOOR HARDWARE B. SQUARE D (ELECTRICAL) C. EATON VFD'S D. TRANE (MECHANICAL EQUIPMENT AND CONTROLS) E. LITHONIA LIGHTING D. DELTA (PLUMBING FAUCETS ONLY)
ALTERNATE #3	ALL WORK ASSOCIATED WITH THE RIGHT OF WAY ON RHODELIA ROAD, KY ROUTE 144.
ALTERNATE #4	REMOVE EXISTING VCT IN EXISTING CORRIDORS AND PROVIDE NEW VCT FLOOR PATTERN IN NEW AND EXISTING CORRIDORS, REFER TO SHEET A8.2.
ALTERNATE #5	REMOVE EXISTING VCT IN EXISTING CAFETERIA AND PROVIDE NEW VCT, FLOOR PATTERN REFER TO SHEET A8.2.
ALTERNATE #6	PAINT ALL WALLS IN EXISTING CORRIDOR. PRICE TO INCLUDE ACCENT COLORS FOR 1/3 CORRIDOR WALL SQUARE FOOTAGE.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

PAYNEVILLE ELEM



1 DEMOLITION FLOOR PLAN
3/32" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION REFERENCE NOTES FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE SELECTIVE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED BUT, SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT.
2. THE INTENT OF THE DEMOLITION NOTES IS TO PROVIDE A GENERAL OUTLINE FOR THE CONTRACTOR OF ITEMS TO BE REMOVED AND/OR TURNED OVER TO THE OWNER AND TO ALLOW FOR THE NEW CONSTRUCTION AS OUTLINED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS TO ALLOW FOR NEW CONSTRUCTION SHOWN OR NOT SHOWN ON DEMOLITION PLANS AS MAY BE REQUIRED.
3. CAVITY WALLS AND SPACES BEHIND EXTERIOR FINISHES OR PARTIALLY REMOVED WALLS/ROOFS, ETC. SHALL BE PROTECTED FROM EXPOSURE TO WEATHER BY THE CONTRACTOR. WALLS/ROOFS, ETC. SHALL BE PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WALL DAMAGED FROM CONSTRUCTION ACTIVITIES, ROOFS, EQUIPMENT, ETC. CAUSED BY THIS DEMOLITION OR WEATHER EXPOSURE OF ITEMS THAT ARE TO REMAIN.
4. INFORMATION AND DRAWINGS INCLUDED IN THESE CONTRACT DOCUMENTS PERTAINING TO PAYNEVILLE ELEMENTARY SCHOOL HAVE BEEN OBTAINED FROM ORIGINAL DRAWINGS PROVIDED BY MEADE COUNTY PUBLIC SCHOOLS. THIS INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DIMENSIONS MAY VARY FROM THOSE INDICATED ON ORIGINAL DRAWINGS.
5. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE REMOVAL, RELOCATION AND/OR MODIFICATION OF ITEMS RELATED TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.
6. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS DURING SELECTIVE DEMOLITION AND NEW WORK WHICH ARE SUSPECTED BY THE CONTRACTOR TO BE OF AN UNKNOWN OR QUESTIONABLE COMPOSITION WITH RESPECT TO CONTAINING CONTAMINANTS WHICH MAY BE HAZARDOUS TO HUMAN HEALTH, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF SUCH FINDINGS.
7. WHERE AN EXISTING CMU WALL IS REMOVED AND NO NEW WALL IS SHOWN TO BE INSTALLED, REMOVE EXISTING CMU WALL TO 8 INCHES BELOW ADJACENT FLOOR SLAB. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOOR FINISH.
8. ALL AREAS LEFT EXPOSED AS A RESULT OF DEMOLITION AND/OR EQUIPMENT REMOVAL SHALL BE PATCHED AND REPAIRED TO RESULT IN A FLUSH SMOOTH SURFACE PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. ANY AREAS / OPENINGS IN MASONRY WALLS LARGER THAN 2" EXPOSED TO VIEW SHALL BE PATCHED WITH SOAPED IN CMU UNITS TOOTHED-IN TO EXISTING MASONRY.
9. UNLESS INDICATED OTHERWISE, ALL EXISTING FLOOR SLABS SHALL MEET NEW FLOOR SLABS AT THE SAME ELEVATION WHERE NEW FINISHES SHALL BE INSTALLED FLUSH. CONTRACTOR SHALL VERIFY ALL EXISTING FLOOR SLABS FOR COMPLIANCE PRIOR TO PLACING NEW SLABS AT ASSUMED ELEVATIONS INDICATED.
10. AREAS NOT KEY NOTED ARE EXISTING TO REMAIN, KEEP / MAINTAIN EXISTING FINISHES. CEILING MODIFICATION INCLUDES REMOVAL & REINSTALLATION AS REQUIRED TO FACILITATE MEP WORK. REFER TO MEP DOCUMENTS.
11. REFER TO ROOF PLAN ROOF DEMOLITION.

HAZARDOUS MATERIALS & TOXIC SUBSTANCES

DUE TO THE AGE OF THE EXISTING BUILDINGS, IT IS POSSIBLE HAZARDOUS MATERIALS OR TOXIC SUBSTANCES / MOLDS MAY EXIST. THIS INCLUDES BUT IS NOT LIMITED TO ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), AND OTHER TOXIC SUBSTANCES. IF ANY WORK PERSON ENCOUNTERS ANY MATERIAL OR SUBSTANCE WHICH THEY SUSPECT MIGHT BE HAZARDOUS OR TOXIC, THEY SHALL IMMEDIATELY ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT THE BUILDING USERS AND WORKERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), OTHER TOXIC SUBSTANCES, OR TOXIC MOLDS.

1. THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN-CARTER- BARNHART, PLLC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, NOR IS SHERMAN-CARTER-BARNHART, PLLC A DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS OR TOXIC MOLDS / SUBSTANCES.
2. IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS OR TOXIC SUBSTANCES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED IN DEALING WITH HAZARDOUS MATERIALS AND SUBSTANCES.
3. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN THE PROJECT.
4. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS, OTHER HAZARDOUS MATERIALS, OR TOXIC SUBSTANCES / MOLD RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

DEMOLITION KEY NOTES

NOTE: NOT ALL KEY NOTES ARE USED ON ALL DEMOLITION SHEETS, REFER TO PLANS & ELEVATIONS.

1. REMOVE EXISTING CONCRETE SLAB TO EXTENTS SHOWN TO ACCOMMODATE CONSTRUCTION OF NEW FOUNDATION, REFER TO STRUCT..
2. REMOVE EXISTING WINDOW ASSEMBLY IN ITS ENTIRETY. PREP OPENING TO RECEIVE NEW WORK / INFILL.
3. REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW WORK.
4. REMOVE EXISTING CANOPY / WALKWAY COVER AND ANY ASSOCIATED ELECTRICAL ITEMS, PATCH/REPAIR AND INFILL EXISTING BRICK WALL BEYOND AS REQUIRED. REFER TO NEW WORK AND MEP.
5. REMOVE EXISTING DOOR IN ITS ENTIRETY. EXISTING DOOR FRAME TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
6. REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW CONSTRUCTION, COORDINATE WITH STRUCT., NEW WORK PLANS AND BUILDING SECTIONS.
7. REMOVE EXISTING PLUMBING FIXTURES IN THEIR ENTIRETY, PATCH AND REPAIR WALLS AND FLOORS AS REQUIRED TO RECEIVE NEW FINISHES. REFER TO NEW WORK PLANS AND MEP.
8. REMOVE STAGE FLOOR ASSEMBLY AND RELATED FRAMING IN ITS ENTIRETY, PREP ADJACENT SURFACE AND FLOOR BELOW TO RECEIVE NEW FINISHES AS REQ'D.
9. REMOVE EXISTING WALL IN ITS ENTIRETY TO EXTENTS SHOWN. PATCH / REPAIR ALL ADJACENT EXISTING SURFACES TO REMAIN AS REQUIRED TO RECEIVE SCHEDULED FINISHES.
10. REMOVE EXISTING STOREFRONT DOOR / WINDOW FRAMING SYSTEM IN ITS ENTIRETY. PREP SURFACE AS REQUIRED TO RECEIVE NEW STOREFRONT DOOR / WINDOW FRAMING SYSTEM OR PATCH/REPAIR FINISHES TO MATCH ADJACENT EXISTING FINISHES.
11. REMOVE EXISTING RUBBER STAIR TREADS & RISERS IN THERE ENTIRETY, PREP FLOOR FOR SCHEDULED FIN.
12. REMOVE EXISTING LAY-IN ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY AS WELL AS ANY PLASTER CEILING INCLUDING ASSOCIATED PLASTER CEILING STRUCTURE. CONTRACTOR TO PROTECT EXISTING AUDIO VISUAL CABLE THAT IS ATTACHED TO PLASTER CEILING. REFER TO MEP FOR FULL EXTENT OF MEP ITEMS TO BE PROTECTED OR DEMOLISHED DURING CONSTRUCTION.
13. REMOVE DOWNSPOUT, BOOT AND RELATED BRACKETS.
14. REMOVE EXISTING CONCRETE AND MASONRY COLUMN IN ITS ENTIRETY. PROTECT CANOPY ABOVE FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PROVIDE TEMPORARY CANOPY SUPPORT. REFER TO STRUCTURAL.
15. REMOVE EXISTING VINYL COMPOSITE TILE (VCT) AND BASE IN ITS ENTIRETY, PREP FLOOR FOR INSTALLATION OF SCHEDULED FINISH.
16. REMOVE EXISTING ACOUSTICAL / PLASTER HARD CEILING IN ANY ASSOCIATED STRUCTURE BLOCKING, FASTENERS IN ITS ENTIRETY. REFER TO MEP FOR ANY MEP ITEMS THAT NEED TO BE PROTECTED OR DEMOLISHED DURING CONSTRUCTION.
17. REMOVE AND REINSTALL EXISTING SATELLITE DISH AND RELATED ITEMS TO ACCOMMODATE NEW ROOF / GUTTER INSTALLATION.
18. REMOVE EXISTING COPING AND RELATED BLOCKING, FASTENERS, PREPARE SURFACE FOR NEW COPING OR PARAPET, REFER TO NEW WORK PLANS.
19. REMOVE WD 2X NET SUPPORT, NETTING, BASKETBALL GOAL, WOOD SUPPORT STRUCTURE IN THEIR ENTIRETY INCLUDING ANY ASSOCIATED WOOD BLOCKING OR FASTENERS.
20. REMOVE EXISTING LOUVER, PATCH/REPAIR AND INFILL EXISTING BRICK WALL BEYOND AS REQUIRED. REFER TO NEW WORK AND MEP.
21. REMOVE EXISTING WINDOW ASSEMBLY IN ITS ENTIRETY. PREP OPENING TO RECEIVE NEW WINDOW REFER TO NEW WORK PLANS.
22. REMOVE EXISTING WINDOW ASSEMBLY IN ITS ENTIRETY AS PART OF ALTERNATE #1. PREP OPENING TO RECEIVE NEW WINDOW REFER TO NEW WORK PLANS AND ALTERNATE #1.
23. REMOVE CAST STONE SILL.
24. REMOVE PORTION OF CAST STONE SILL AS REQUIRED TO ACCOMMODATE NEW DOOR / WINDOW SYSTEM.
25. REMOVE PORTION OF EXISTING WALL (SAW CUT) TO EXTENTS SHOWN AND TO BOTTOM OF EXISTING CONC. BEAM. PROVIDE NEW STEEL BRICK LINTEL. REFER TO STRUCTURAL AND PLANS FOR EXTENT OF OPENING.
26. REMOVE EXISTING CONDUCTOR HEAD AND SCUPPER.
27. REMOVE EXISTING GUTTER, FASCIA AND FLASHING, AS REQ'D. TO RECEIVE NEW WORK.
28. REMOVE EXISTING CONCRETE ROOF DECK (ABOVE) AS REQUIRED TO FACILITATE NEW ROOF HATCH - REFER TO STRUCTURAL DWGS. AND NEW WORK PLANS / DETAILS.
29. EXISTING BRICK CANOPY TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. REFER TO STRUCTURAL.
30. REMOVE EIFS PEDIMENT AND ASSOCIATED STRUCTURE IN ITS ENTIRETY.
31. REMOVE EXISTING METAL ROOF IN ITS ENTIRETY INCLUDING ANY ASSOCIATED STRUCTURE.
32. REMOVE EXISTING SOFFIT.

DEMOLITION SYMBOL LEGEND

- EXTENTS CONCRETE SLAB REMOVAL
- DEMOLITION KEY NOTE
- EXISTING WALL / CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR & FRAME TO BE REMOVED

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KENTUCKY REGISTERED ARCHITECT MICHAEL SHANE FIELD NO. 32263 EXPIRATION DATE 06/30/2020

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

DEMOLITION PLAN

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, ANR
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

D1.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
D1.0 DEMOLITION FLOOR PLAN
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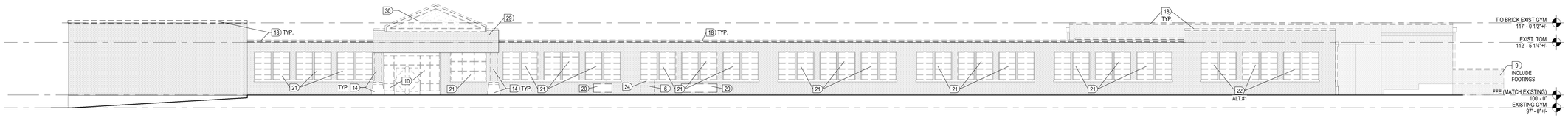
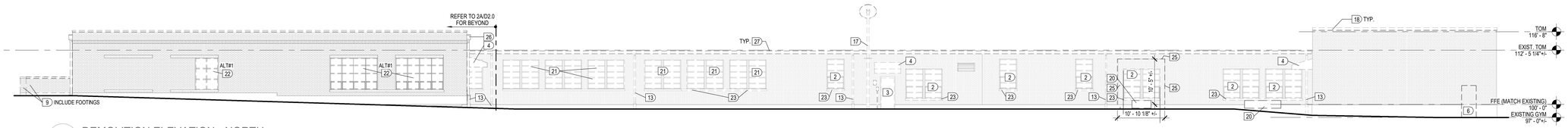
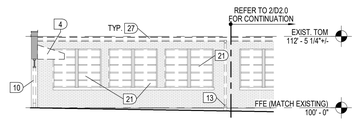


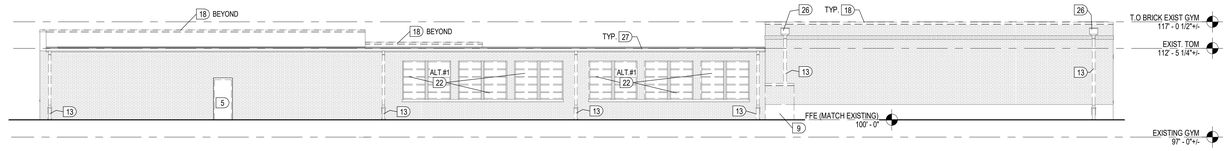
1 DEMOLITION ELEVATION - SOUTH
3/32" = 1'-0"



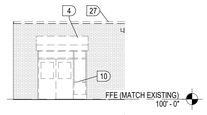
2 DEMOLITION ELEVATION - NORTH
3/32" = 1'-0"



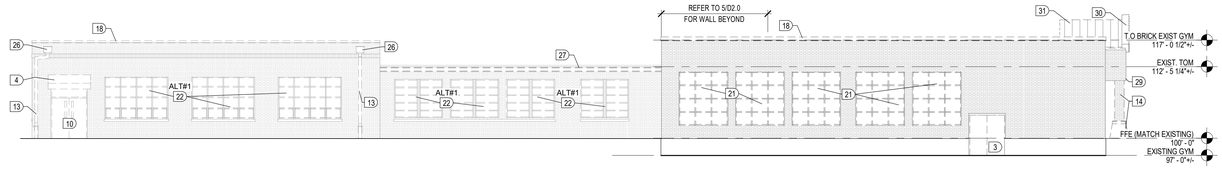
2A DEMOLITION ELEVATION - NORTH PARTIAL
3/32" = 1'-0"



3 DEMOLITION ELEVATION - EAST
3/32" = 1'-0"



5 DEMOLITION ELEVATION - WEST PARTIAL
3/32" = 1'-0"



4 DEMOLITION ELEVATION - WEST
3/32" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION REFERENCE NOTES FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE SELECTIVE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED BUT, SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT.
2. THE INTENT OF THE DEMOLITION NOTES IS TO PROVIDE A GENERAL OUTLINE FOR THE CONTRACTOR OF ITEMS TO BE REMOVED AND/OR TURNED OVER TO THE OWNER AND TO ALLOW FOR THE NEW CONSTRUCTION AS OUTLINED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS TO ALLOW FOR NEW CONSTRUCTION SHOWN OR NOT SHOWN ON DEMOLITION PLANS AS MAY BE REQUIRED.
3. CAVITY WALLS AND SPACES BEHIND EXTERIOR FINISHES OR PARTIALLY REMOVED WALLS/ROOFS, ETC. SHALL BE PROTECTED FROM EXPOSURE TO WEATHER BY THE CONTRACTOR. WALLS/ROOFS, ETC. SHALL BE PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WALL DAMAGED FROM CONSTRUCTION ACTIVITIES, ROOFS, EQUIPMENT, ETC. CAUSED BY THIS DEMOLITION OR WEATHER EXPOSURE OF ITEMS THAT ARE TO REMAIN.
4. INFORMATION AND DRAWINGS INCLUDED IN THESE CONTRACT DOCUMENTS PERTAINING TO PAYNEVILLE ELEMENTARY SCHOOL HAVE BEEN OBTAINED FROM ORIGINAL DRAWINGS PROVIDED BY MEADE COUNTY PUBLIC SCHOOLS. THIS INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DIMENSIONS MAY VARY FROM THOSE INDICATED ON ORIGINAL DRAWINGS.
5. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE REMOVAL, RELOCATION AND/OR MODIFICATION OF ITEMS RELATED TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS.
6. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS DURING SELECTIVE DEMOLITION AND NEW WORK WHICH ARE SUSPECTED BY THE CONTRACTOR TO BE OF AN UNKNOWN OR QUESTIONABLE COMPOSITION WITH RESPECT TO CONTAINING CONTAMINANTS WHICH MAY BE HAZARDOUS TO HUMAN HEALTH, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF SUCH FINDINGS.
7. WHERE AN EXISTING CMU WALL IS REMOVED AND NO NEW WALL IS SHOWN TO BE INSTALLED, REMOVE EXISTING CMU WALL TO 8 INCHES BELOW ADJACENT FLOOR SLAB. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOOR FINISH.
8. ALL AREAS LEFT EXPOSED AS A RESULT OF DEMOLITION AND/OR EQUIPMENT REMOVAL SHALL BE PATCHED AND REPAIRED TO RESULT IN A FLUSH SMOOTH SURFACE PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. ANY AREAS / OPENINGS IN MASONRY WALLS LARGER THAN 2" EXPOSED TO VIEW SHALL BE PATCHED WITH SOAPED IN CMU UNITS TOOTHED-IN TO EXISTING MASONRY.
9. UNLESS INDICATED OTHERWISE, ALL EXISTING FLOOR SLABS SHALL MEET NEW FLOOR SLABS AT THE SAME ELEVATION WHERE NEW FINISHES SHALL BE INSTALLED FLUSH. CONTRACTOR SHALL VERIFY ALL EXISTING FLOOR SLABS FOR COMPLIANCE PRIOR TO PLACING NEW SLABS AT ASSUMED ELEVATIONS INDICATED.
10. AREAS NOT KEY NOTED ARE EXISTING TO REMAIN, KEEP / MAINTAIN EXISTING FINISHES. CEILING MODIFICATION INCLUDES REMOVAL & REINSTALLATION AS REQUIRED TO FACILITATE MEP WORK. REFER TO MEP DOCUMENTS.
11. REFER TO ROOF PLAN ROOF DEMOLITION.

HAZARDOUS MATERIALS & TOXIC SUBSTANCES

DUE TO THE AGE OF THE EXISTING BUILDINGS, IT IS POSSIBLE HAZARDOUS MATERIALS OR TOXIC SUBSTANCES / MOLDS MAY EXIST. THIS INCLUDES BUT IS NOT LIMITED TO ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), AND OTHER TOXIC SUBSTANCES. IF ANY WORK PERSON ENCOUNTERS ANY MATERIAL OR SUBSTANCE WHICH THEY SUSPECT MIGHT BE HAZARDOUS OR TOXIC, THEY SHALL IMMEDIATELY ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT THE BUILDING USERS AND WORKERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS. THE ARCHITECT AND ARCHITECTS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), OTHER TOXIC SUBSTANCES, OR TOXIC MOLDS.

1. THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN-CARTER- BARNHART, PLLC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, NOR IS SHERMAN-CARTER-BARNHART, PLLC A DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS OR TOXIC MOLDS / SUBSTANCES.
2. IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS OR TOXIC SUBSTANCES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED IN DEALING WITH HAZARDOUS MATERIALS AND SUBSTANCES.
3. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN THE PROJECT.
4. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS, OTHER HAZARDOUS MATERIALS, OR TOXIC SUBSTANCES / MOLD RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

(#) DEMOLITION KEY NOTES

NOTE: NOT ALL KEY NOTES ARE USED ON ALL DEMOLITION SHEETS. REFER TO PLANS & ELEVATIONS.

1. REMOVE EXISTING CONCRETE SLAB TO EXTENTS SHOWN TO ACCOMMODATE CONSTRUCTION OF NEW FOUNDATION, REFER TO STRUCT..
2. REMOVE EXISTING WINDOW ASSEMBLY IN ITS ENTIRETY. PREP OPENING TO RECEIVE NEW WORK / INFILL.
3. REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW WORK.
4. REMOVE EXISTING CANOPY / WALKWAY COVER AND ANY ASSOCIATED ELECTRICAL ITEMS, PATCH/REPAIR AND INFILL EXISTING BRICK WALL BEYOND AS REQUIRED. REFER TO NEW WORK AND MEP.
5. REMOVE EXISTING DOOR IN ITS ENTIRETY. EXISTING DOOR FRAME TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
6. REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH STRUCT., NEW WORK PLANS AND BUILDING SECTIONS.
7. REMOVE EXISTING PLUMBING FIXTURES IN THEIR ENTIRETY, PATCH AND REPAIR WALLS AND FLOORS AS REQUIRED TO RECEIVE NEW FINISHES. REFER TO NEW WORK PLANS AND MEP.
8. REMOVE STAGE FLOOR ASSEMBLY AND RELATED FRAMING IN ITS ENTIRETY, PREP ADJACENT SURFACE AND FLOOR BELOW TO RECEIVE NEW FINISHES AS REQ'D.
9. REMOVE EXISTING WALL IN ITS ENTIRETY TO EXTENTS SHOWN. PATCH / REPAIR ALL ADJACENT EXISTING SURFACES TO REMAIN AS REQUIRED TO RECEIVE SCHEDULED FINISHES.
10. REMOVE EXISTING STOREFRONT DOOR / WINDOW FRAMING SYSTEM IN ITS ENTIRETY. PREP SURFACE AS REQUIRED TO RECEIVE NEW STOREFRONT DOOR / WINDOW FRAMING SYSTEM OR PATCH/REPAIR FINISHES TO MATCH ADJACENT EXISTING FINISHES.
11. REMOVE EXISTING RUBBER STAIR TREADS & RISERS IN THERE ENTIRETY, PREP FLOOR FOR SCHEDULED FIN.
12. REMOVE EXISTING LAY-IN ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY AS WELL AS ANY PLASTER CEILING INCLUDING ASSOCIATED PLASTER CEILING STRUCTURE. CONTRACTOR TO PROTECT EXISTING AUDIO VISUAL CABLE THAT IS ATTACHED TO PLASTER CEILING. REFER TO MEP FOR FULL EXTENT OF MEP ITEMS TO BE PROTECTED OR DEMOLISHED DURING CONSTRUCTION.
13. REMOVE DOWNSPOUT, BOOT AND RELATED BRACKETS.
14. REMOVE EXISTING CONCRETE AND MASONRY COLUMN IN ITS ENTIRETY. PROTECT CANOPY ABOVE FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PROVIDE TEMPORARY CANOPY SUPPORT, REFER TO STRUCTURAL.
15. REMOVE EXISTING VINYL COMPOSITE TILE (VCT) AND BASE IN ITS ENTIRETY, PREP FLOOR FOR INSTALLATION OF SCHEDULED FINISH.
16. REMOVE EXISTING ACOUSTICAL / PLASTER HARD CEILING IN ANY ASSOCIATED STRUCTURE BLOCKING, FASTENERS IN ITS ENTIRETY. REFER TO MEP FOR ANY MEP ITEMS THAT NEED TO BE PROTECTED OR DEMOLISHED DURING CONSTRUCTION.
17. REMOVE AND REINSTALL EXISTING SATELLITE DISH AND RELATED ITEMS TO ACCOMMODATE NEW ROOF / GUTTER INSTALLATION.
18. REMOVE EXISTING COPING AND RELATED BLOCKING, FASTENERS, PREPARE SURFACE FOR NEW COPING OR PARAPET, REFER TO NEW WORK PLANS.
19. REMOVE WD 2X NET SUPPORT, NETTING, BASKETBALL GOAL, WOOD SUPPORT STRUCTURE IN THEIR ENTIRETY INCLUDING ANY ASSOCIATED WOOD BLOCKING OR FASTENERS.
20. REMOVE EXISTING LOUVER, PATCH/REPAIR AND INFILL EXISTING BRICK WALL BEYOND AS REQUIRED. REFER TO NEW WORK AND MEP.
21. REMOVE EXISTING WINDOW ASSEMBLY IN ITS ENTIRETY. PREP OPENING TO RECEIVE NEW WINDOW REFER TO NEW WORK PLANS.
22. REMOVE EXISTING WINDOW ASSEMBLY IN ITS ENTIRETY AS PART OF ALTERNATE #1. PREP OPENING TO RECEIVE NEW WINDOW REFER TO NEW WORK PLANS AND ALTERNATE #1.
23. REMOVE CAST STONE SILL.
24. REMOVE PORTION OF CAST STONE SILL AS REQUIRED TO ACCOMMODATE NEW DOOR / WINDOW SYSTEM.
25. REMOVE PORTION OF EXISTING WALL (SAW CUT) TO EXTENTS SHOWN AND TO BOTTOM OF EXISTING CONC. BEAM. PROVIDE NEW STEEL BRICK LINTEL, REFER TO STRUCTURAL AND PLANS FOR EXTENT OF OPENING.
26. REMOVE EXISTING CONDUCTOR HEAD AND SCUPPER.
27. REMOVE EXISTING GUTTER, FASCIA AND FLASHING, AS REQ'D. TO RECEIVE NEW WORK.
28. REMOVE EXISTING CONCRETE ROOF DECK (ABOVE) AS REQUIRED TO FACILITATE NEW ROOF HATCH - REFER TO STRUCTURAL DWGS. AND NEW WORK PLANS / DETAILS..
29. EXISTING BRICK CANOPY TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. REFER TO STRUCTURAL.
30. REMOVE EIFS PEDIMENT AND ASSOCIATED STRUCTURE IN ITS ENTIRETY.
31. REMOVE EXISTING METAL ROOF IN ITS ENTIRETY INCLUDING ANY ASSOCIATED STRUCTURE.
32. REMOVE EXISTING SOFFIT.

DEMOLITION SYMBOL LEGEND

- EXTENTS CONCRETE SLAB REMOVAL
- (#) DEMOLITION KEY NOTE
- EXISTING WALL / CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR & FRAME TO BE REMOVED

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KENTUCKY LICENSED ARCHITECT — MICHAEL K. SHEFIELD — NO. 32403 — REGISTERED ARCHITECT

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

DEMOLITION ELEVATIONS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

D2.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
D2.0 DEMOLITION ELEVATIONS
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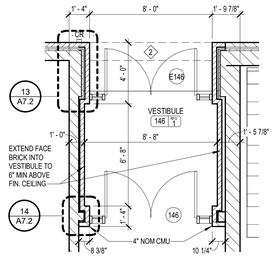
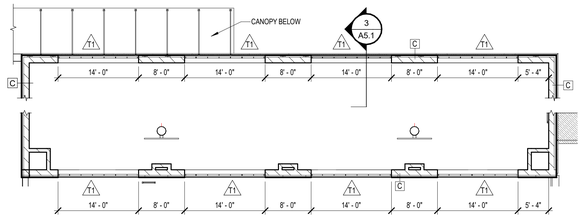
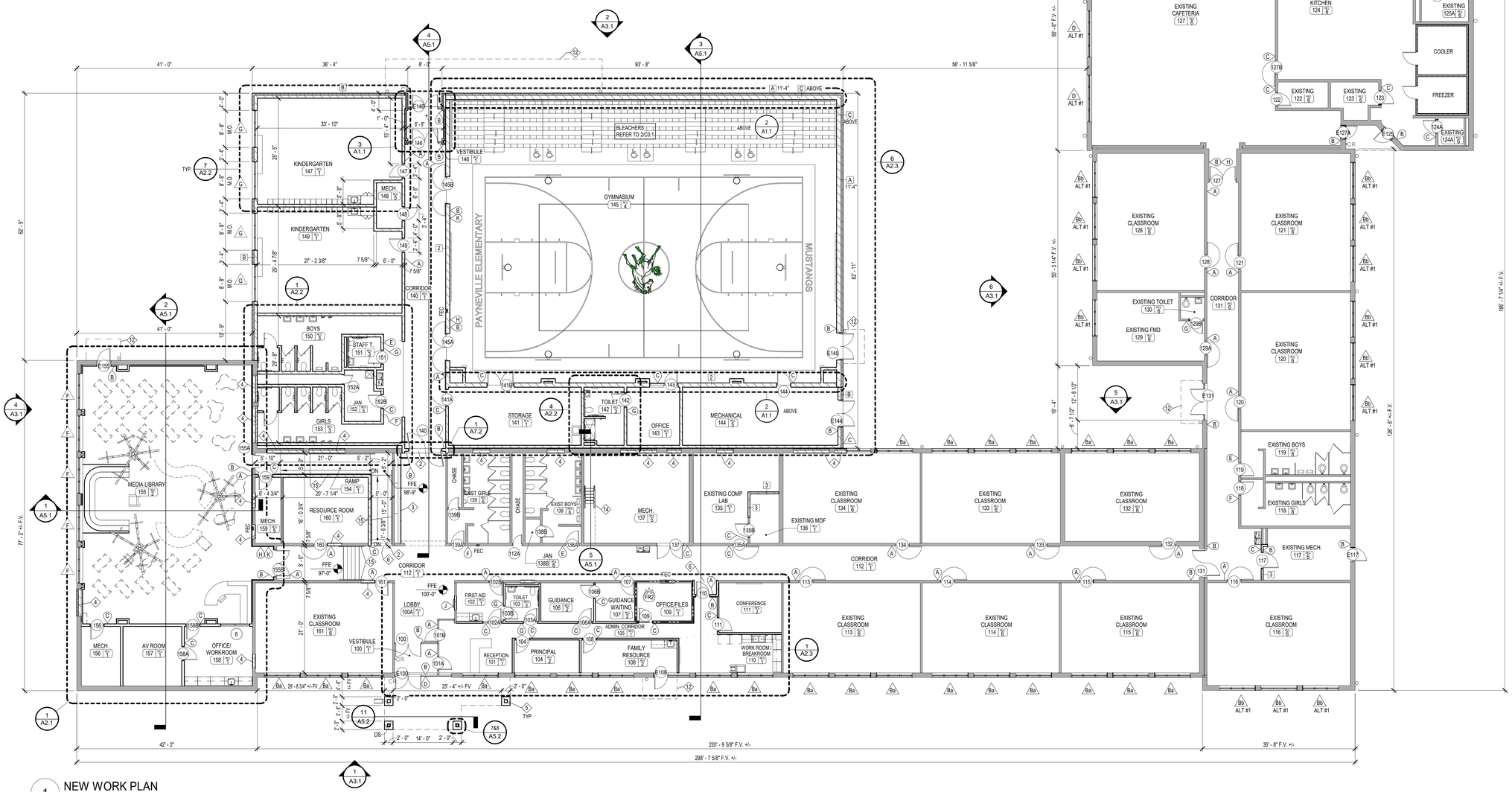


3 ENLARGED PARTIAL PLAN
1/4" = 1'-0"



2 GYM TRANSLUCENT PANEL LAYOUT
3/32" = 1'-0"



1 NEW WORK PLAN
3/32" = 1'-0"

GENERAL NEW WORK NOTES

1. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC.
2. REFER TO MEP DRAWINGS FOR INFORMATION REGARDING MEP WORK AT ROOF.
3. REFER TO SHEET A0.0 FOR GENERAL NOTES AND PARTITION TYPES.
4. REFER TO DETAILS ON SHEET A5.4 FOR TYPICAL WALL INTERSECTION DETAILS.
5. REFER TO SHEETS D1.0-D2.0 FOR DEMOLITION WORK REQUIRED.
6. REFER TO SHEETS A7.1 & A7.2 FOR DOORS AND FRAMES AND ASSOCIATED DETAILS.
7. REFER TO SHEET A3.1 FOR ELEVATION GENERAL NOTES AND KEY NOTES.
8. REFER TO SHEET A0.0 FOR ALTERNATE INFORMATION.

NEW WORK KEY NOTES

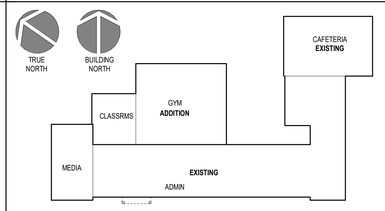
NOTE: NOT ALL KEY NOTES MAY APPLY TO THIS SHEET.

1. FURNITURE / SHELVING / EQUIPMENT, NIC.
2. CMU/STEEL LINTEL ABOVE, REFER TO STRUCTURAL & CEILING PLANS.
3. DISPLAY CASE REFER TO ELEVATION 1/A3.2.
4. MASONRY INFILL, TOOTH-IN INFILL TO NEAREST MASONRY JOINT ON EITHER SIDE AND ALIGN WITH FACE OF WALL. SEE DEMOLITION PLAN ON D1.0.
5. STEEL COLUMN, REFER TO STRUCT., PAINT WHEN EXPOSED TO VIEW.
6. PATCH/REPAIR FLOOR WHERE PORTION OF EXISTING WALL WAS REMOVED TO MATCH EXISTING ADJACENT AND PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
7. WASHER AND DRYER, NIC, PROVIDE MECH, PLUMBING AND ELEC. HOOK-UP
8. NOT USED.
9. BASKETBALL GOAL ABOVE.
10. WALL MOUNTED TEACHERS MAILBOX, REFER TO CASEWORK NOTES AND SPECS.
11. 1" RECESSED CONCRETE FLOOR SLAB, AT ADA SHOWER FOR POSITIVE DRAINAGE TO DRAIN, REFER TO ROOM FINISH GROUPS (RFG) FOR FLOOR FINISH.
12. DASHED LINE INDICATES NEW PRE-ENGINEERED CANOPY ABOVE, REFER TO ROOF PLAN.
13. ATHLETIC WALL PADS AT LENGTH INDICATED ON PLANS REFER TO SPECS.
14. INDUSTRIAL STAIR TO ROOF HATCH ABOVE, REFER TO DETAIL 5/A5.1. COORDINATE PLACEMENT WITH EXISTING JOIST SPACING & LOCATIONS.
15. WALL MOUNTED HANDRAIL, REFER TO DETAILS 11 & 12/A5.3.
16. FIRE RATING, IS KDE REQUIREMENT.
17. SEAL ALL OPENINGS AND PENETRATIONS IN EXISTING WALL TO MAINTAIN FIRE RATING.

SYMBOLS LEGEND

- Name 101 — ROOM FINISH GROUPS (REFER TO SHEET A0.0); ROOM NUMBER
- X — DOOR NUMBER (DOOR SCHEDULE SHEET A7.1)
- X — NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.3)
- X — WALL TYPE (SCHEDULE SHEET A0.0)
- X — ALUMINUM OR HOLLOW METAL FRAME OR STOREFRONT TYPE (REFER TO FLOOR PLANS AND SCHEDULE SHEETS A7.1)
- X — ELEVATION KEY NOTE (SHEET A3.1)
- X — TOILET ACCESSORY (SHEET A2.2)
- X — SIGNAGE KEY NOTE (SHEET A0.0)
- ROOM / WALL DESIGNATION — FR2 2 HOUR FIRE RESISTANT BARRIER
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- CR — CARD READER

KEY PLAN



SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KY STATE REGISTERED ARCHITECT — M. SCOTT FIELD — NO. 32263 — 7/10/2019

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

NEW WORK PLAN

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, ANR
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET
A1.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A1.1 NEW WORK PLAN
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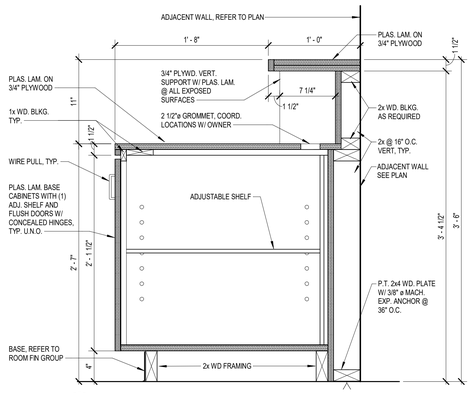
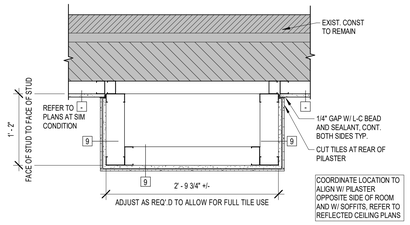
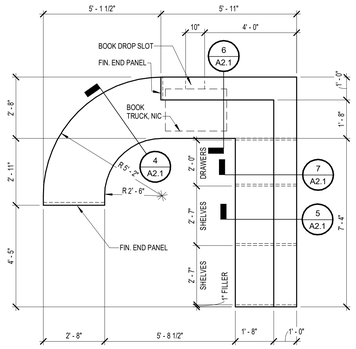


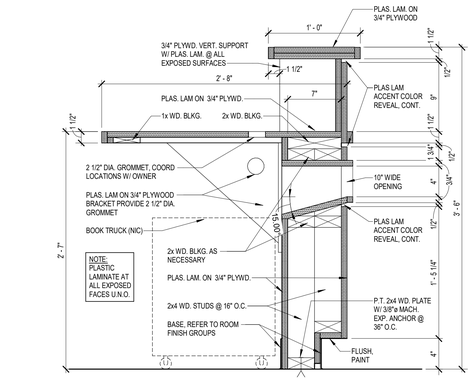
5 MEDIA CENTER DESK SECTION @ SHELVES
1 1/2" = 1'-0"



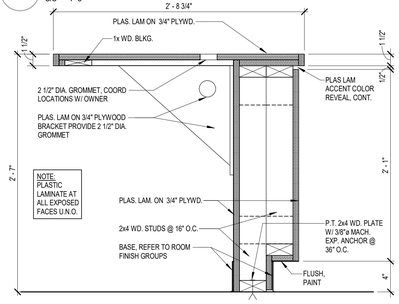
2 PILASTER DETAIL MEDIA CENTER
1" = 1'-0"



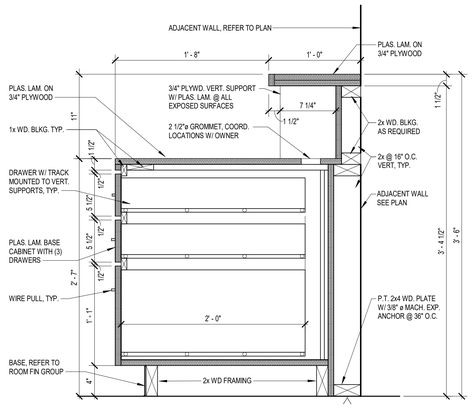
3 MEDIA CENTER DESK PLAN
3/8" = 1'-0"



6 MEDIA CENTER DESK SECTION @ BOOK DROP
1 1/2" = 1'-0"



4 MEDIA CENTER DESK SECTION
1 1/2" = 1'-0"

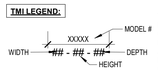


7 MEDIA CENTER DESK SECTION @ DRAWERS
1 1/2" = 1'-0"

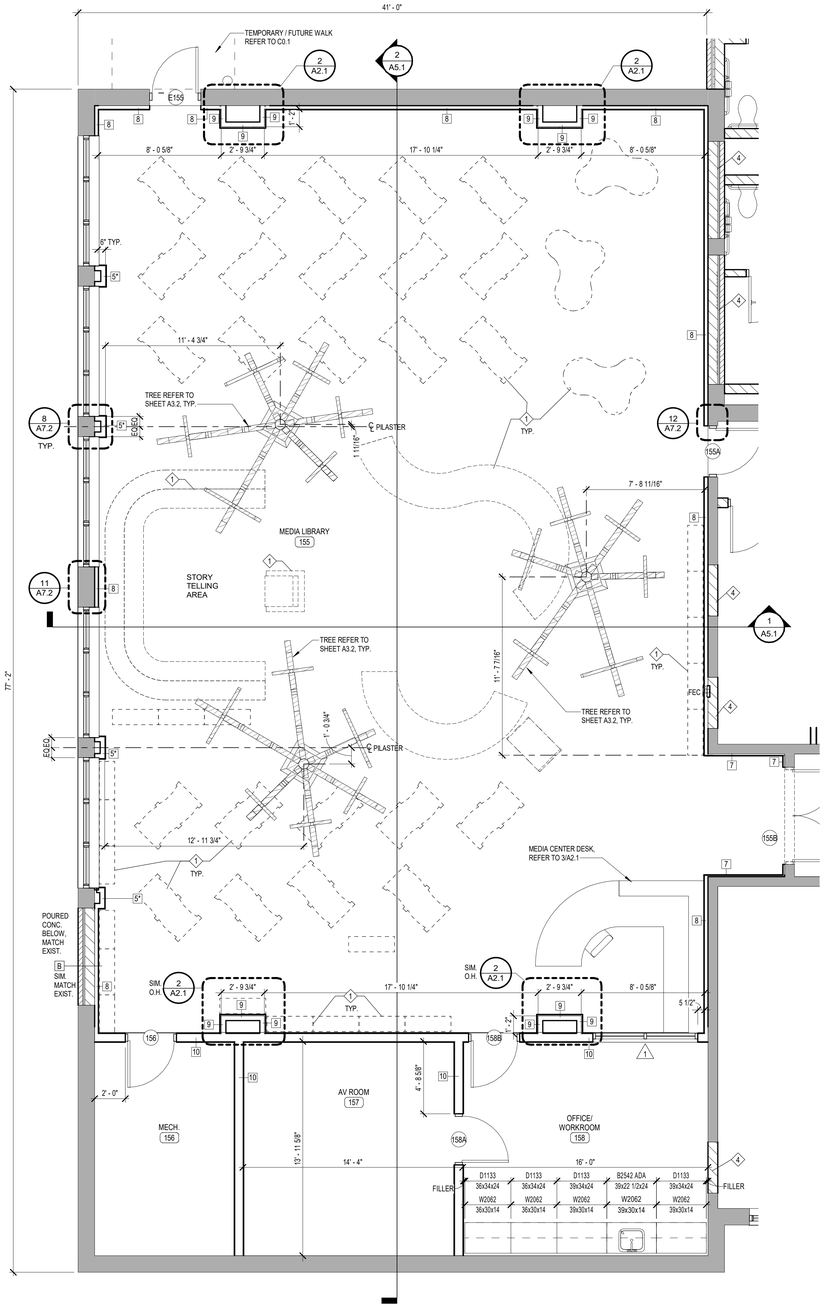
CASEWORK NOTES

1. MOUNT ALL CASEWORK PER ADA GUIDELINES.
2. PROVIDE FINISHED END PANELS AT ALL EXPOSED LOCATIONS, U.N.O.
3. PROVIDE 4" BACK AND SIDE SPLASH AT ALL WALL LOCATIONS, EXCEPT AT MEDIA CENTER RECEPTION.
4. ALL CABINETS AND BASES SHALL HAVE LOCKS ON DOORS AND DRAWERS.
5. ALL BASE CABINETS AND DRAWER CABINETS SHALL HAVE COUNTER TOPS.
6. PROVIDE INFILL PANELS AS REQUIRED TO CONCEAL VOIDS AT CABINETS.
7. MOUNT TOP OF WALL CABINETS AT 7'-0" A.F.F., UNLESS NOTED OTHERWISE.
8. PROVIDE CONT. WD. BLOCKING AT STUD WALL LOCATIONS FOR MOUNTING OF CASEWORK.
9. PROVIDE WD. BLOCKING AS NEEDED TO SUPPORT COUNTER TOP. COORD. W/ UNDER COUNTER EQUIP.
10. PLUMBING PIPES TO RUN BELOW CASEWORK AS SHOWN ON MECH DWGS.

TMI LEGEND:



TYPICAL WALL AND BASE CASEWORK MODEL NUMBERS SHOWN ARE TMI SYSTEMS DESIGN CORP. (PHONE NO. 1-800-456-6716) AND REPRESENT THE LEVEL OF QUALITY REQUIRED AND SHALL BE USED AS THE BASIS FOR EQUAL PRODUCTS. HEIGHT INDICATED IS TO TOP OF COUNTERTOP.



1 MEDIA CENTER PLAN
1/4" = 1'-0"

GENERAL NEW WORK NOTES

1. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC.
2. REFER TO MEP DRAWINGS FOR INFORMATION REGARDING MEP WORK AT ROOF.
3. REFER TO SHEET A0.0 FOR GENERAL NOTES AND PARTITION TYPES.
4. REFER TO DETAILS ON SHEET A5.4 FOR TYPICAL WALL INTERSECTION DETAILS.
5. REFER TO SHEETS D1.0-D2.0 FOR DEMOLITION WORK REQUIRED.
6. REFER TO SHEETS A7.1 & A7.2 FOR DOORS AND FRAMES AND ASSOCIATED DETAILS.
7. REFER TO SHEET A3.1 FOR ELEVATION GENERAL NOTES AND KEY NOTES.
8. REFER TO SHEET A0.0 FOR ALTERNATE INFORMATION.

NEW WORK KEY NOTES

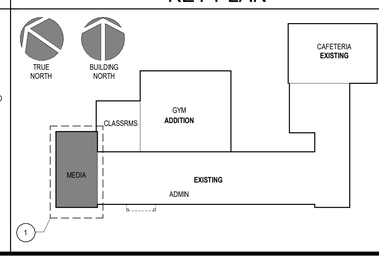
NOTE: NOT ALL KEY NOTES MAY APPLY TO THIS SHEET.

1. FURNITURE / SHELVING / EQUIPMENT, NIC.
2. CMU/STEEL LINTEL ABOVE, REFER TO STRUCTURAL & CEILING PLANS.
3. DISPLAY CASE REFER TO ELEVATION 1/A3.2.
4. MASONRY INFILL, TOOTH-IN INFILL TO NEAREST MASONRY JOINT ON EITHER SIDE AND ALIGN WITH FACE OF WALL. SEE DEMOLITION PLAN ON D1.0.
5. STEEL COLUMN. REFER TO STRUCT., PAINT WHEN EXPOSED TO VIEW.
6. PATCH/REPAIR FLOOR WHERE PORTION OF EXISTING WALL WAS REMOVED TO MATCH EXISTING ADJACENT AND PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
7. WASHER AND DRYER, NIC, PROVIDE MECH, PLUMBING AND ELEC. HOOK-UP
8. NOT USED.
9. BASKETBALL GOAL ABOVE.
10. WALL MOUNTED TEACHERS MAILBOX, REFER TO CASEWORK NOTES AND SPECS.
11. 1" RECESSED CONCRETE FLOOR SLAB, AT ADA SHOWER FOR POSITIVE DRAINAGE TO DRAIN, REFER TO ROOM FINISH GROUPS (RFG) FOR FLOOR FINISH.
12. DASHED LINE INDICATES NEW PRE-ENGINEERED CANOPY ABOVE, REFER TO ROOF PLAN.
13. ATHLETIC WALL PADS AT LENGTH INDICATED ON PLANS REFER TO SPECS.
14. INDUSTRIAL STAIR TO ROOF HATCH ABOVE, REFER TO DETAIL 5/A5.1. COORDINATE PLACEMENT WITH EXISTING JOIST SPACING & LOCATIONS.
15. WALL MOUNTED HANDRAIL, REFER TO DETAILS 11 & 12/A5.3.
16. FIRE RATING, IS KDE REQUIREMENT.
17. SEAL ALL OPENINGS AND PENETRATIONS IN EXISTING WALL TO MAINTAIN FIRE RATING.

SYMBOLS LEGEND

- Name 101 9 — ROOM FINISH GROUPS (REFER TO SHEET A0.0 ROOM NUMBER
- X — DOOR NUMBER (DOOR SCHEDULE SHEET A7.1)
- X — NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.3)
- X — WALL TYPE (SCHEDULE SHEET A0.0)
- X — ALUMINUM OR HOLLOW METAL FRAME OR STOREFRONT TYPE (REFER TO FLOOR PLANS AND SCHEDULE SHEETS A7.1)
- X — ELEVATION KEY NOTE (SHEET A3.1)
- X — TOILET ACCESSORY (SHEET A2.2)
- X — SIGNAGE KEY NOTE (SHEET A0.0)
- X — ROOM / WALL DESIGNATION
  FR2 2 HOUR FIRE RESISTANT BARRIER
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- CR — CARD READER

KEY PLAN



SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE S. MITCHELL NO. 32263 REGISTERED ARCHITECT COMMONWEALTH OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ENLARGED MEDIA CENTER FLOOR PLAN AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A2.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A2.1 ENLARGED MEDIA CENTER FLOOR PLAN AND DETAILS
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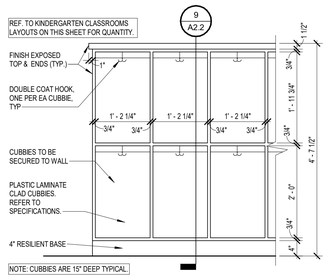
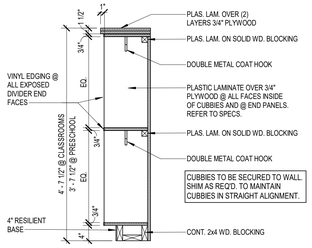
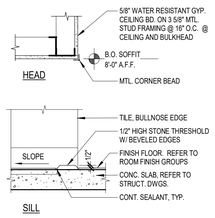


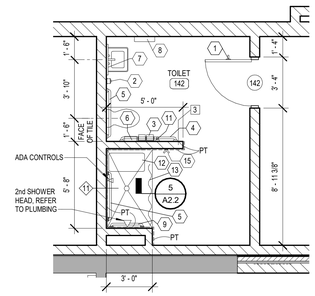
8 CHILDRENS CUBBIE ELEVATION
3/4" = 1'-0"



9 CHILDRENS CUBBIE BASE SECTION
3/4" = 1'-0"

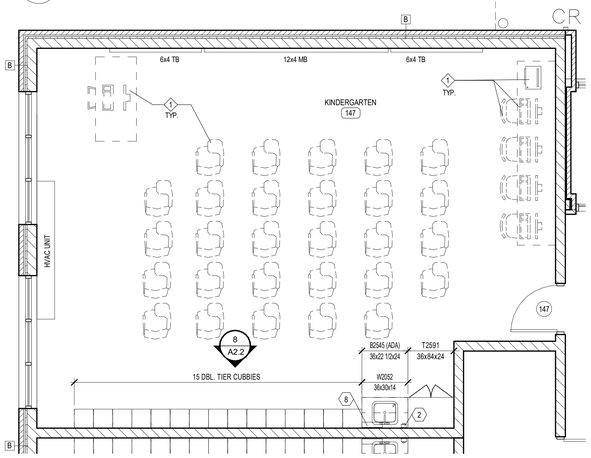


5 SHOWER SILL/SOFFIT DETAIL
1" = 1'-0"

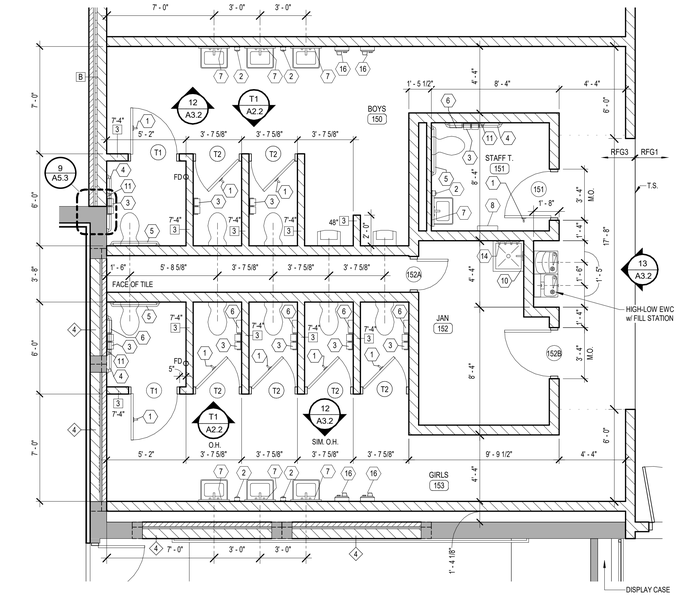


4 PE RESTROOM
1/4" = 1'-0"

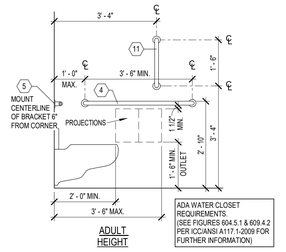
6 NOT USED
3" = 1'-0"



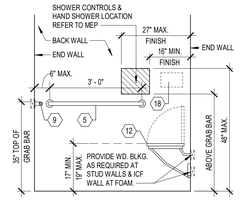
7 KINDERGARTEN CLASSROOM TYPICAL
1/4" = 1'-0"



1 RESTROOM PLAN
1/4" = 1'-0"



2 ADA COMPLIANT GRAB BAR LAYOUT
1/2" = 1'-0"



3 ADA SHOWER CONTROLS LAYOUT
1/2" = 1'-0"

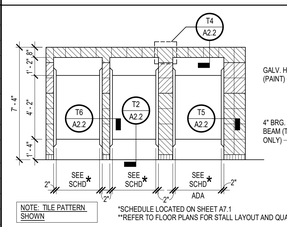
TOILET ACCESSORY SCHEDULE

	ACCESSORY	MTG. HT.	MFR.
1	COAT HOOK AND BUMPER	48" TOP OF HOOK	ASI 0714
2	SOAP DISPENSER (SURFACE MTD.)	40" TO VALVE	ASI 0347
3	DOUBLE ROLL TOILET PAPER DISPENSER W/ VANDAL RESISTANT SPINDLE (SURFACE MOUNTED)	24" TO CENTER LINE	ASI 0264-12
4	42" S.S. GRAB BAR (1-1/4")	33" TO CENTERLINE	ASI 3700-P-42
5	36" S.S. GRAB BAR (1-1/4")	33" TO CENTERLINE	ASI 3700-P-36
6	SANITARY NAPKIN DISPOSAL (SURFACE MOUNTED)	24" TO TOP (28" FOR ADA)	ASI 0852
7	MIRROR W/ S.S. FRAME - 24"x30"	42" TO BOTTOM	ASI 0600-B - 24"x30"
8	PAPER TOWEL DISPENSER (DISPENSER W/ WASTE RECEPTACLE AT ALL RESTROOMS - SURFACE MTD.)	48" TO DISPENSER SLOT	ASI 0469-9
9	24" S.S. GRAB BAR (1-1/4")	33" TO CENTERLINE	ASI 3700-P-24
10	MOP BASIN	FLOOR MOUNTED	SEE PLUMBING
11	18" VERTICAL S.S. GRAB BAR (1-1/4")	40" TO BTM. CENTERLINE	ASI 3700-P-18
12	FOLDING SHOWER SEAT	18" TO TOP OF SEAT	ASI 8203-28
13	SHOWER ROD / CURTAIN HOOKS / CURTAIN	84" TO CENTER / LENGTH AS REQ'D ON PLANS	ASI 1204-2 / 1200 SHU / 1200V
14	MOP / BROOM HOLDER (36" WIDE)	72" TO TOP	SEE PLUMBING
15	DOUBLE ROBE/ TOWEL HOOK	48" TO TOP OF HOOK	ASI 7312
16	ELECTRIC HAND DRYER (SURFACE MTD.)	40" TO BUTTON CENTERLINE	EXCEL XL-BW XLERATOR
17	PAPER TOWEL DISPENSER (SURFACE MOUNTED)	46" TO DISPENSER SLOT	ASI 20210
18	S.S. SOAP DISH	48" TO TOP	ASI 7320-S

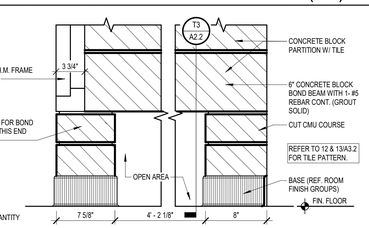
GENERAL TOILET ACCESSORY NOTES

1. MODEL NO'S. DENOTE TOILET ACCESSORIES PRODUCTS OFFERED BY "AMERICAN SPECIALTIES, INC. (ASI) AND REPRESENT THE LEVEL OF QUALITY REQUIRED AND SHALL BE USED AS A BASIS OF DESIGN.
2. ALL ITEMS SHALL BE LOCATED HORIZONTALLY AND MOUNTED TO SPECIFIC POINT ABOVE FINISH FLOOR SURFACES IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) - ANSI A117.1 - 2009.
3. REFER TO MEP DWGS. AND SPECIFICATIONS FOR PLUMBING FIXTURES, CONTROLS, AND FLOOR DRAIN LOCATIONS.
4. ALL EXPOSED PIPING AT LAVATORIES / HC LAV'S. SHALL BE INSULATED AND COVERED WITH A PRE MOLDED RIGID INSULATION JACKET.
5. ALL TOILET ACCESSORIES TO INCLUDE VANDAL RESISTANT OPTION.
6. REFER TO ALL FLOOR PLAN SHEETS FOR ACCESSORIES REQUIRED AT OTHER LOCATIONS.
7. INSTALL GRAB BARS TO ALLOW 1 1/2" BETWEEN GRAB BAR AND WALL.
8. REFER TO DETAIL 2 AND 3 THIS SHEET FOR TYPICAL ADA COMPLIANT GRAB BAR LAYOUT.

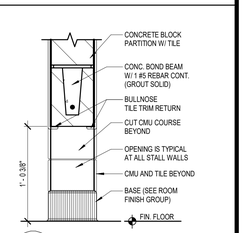
TOILET COMPARTMENT DETAILS (TC)



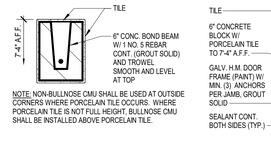
T1 PARTIAL ELEVATION
1/4"=1'-0" *SCHEDULE LOCATED ON SHEET A7.1 **REFER TO FLOOR PLANS FOR STALL LAYOUT AND QUANTITY



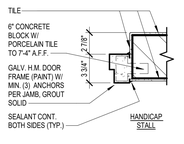
T2 DETAIL
1 1/2" = 1'-0"



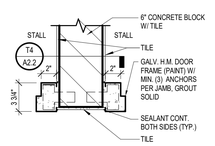
T3 SECTION
1 1/2" = 1'-0"



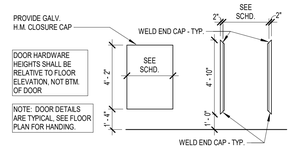
T4 HEAD DETAIL
1 1/2" = 1'-0"



T5 JAMB DETAIL
1 1/2" = 1'-0"



T6 JAMB DETAIL
1 1/2" = 1'-0"



T7 DOOR/FRAME ELEVATIONS
1 1/2" = 1'-0"

GENERAL NEW WORK NOTES

1. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC.
2. REFER TO MEP DRAWINGS FOR INFORMATION REGARDING MEP WORK AT ROOF.
3. REFER TO SHEET A0.0 FOR GENERAL NOTES AND PARTITION TYPES.
4. REFER TO DETAILS ON SHEET A5.4 FOR TYPICAL WALL INTERSECTION DETAILS.
5. REFER TO SHEETS D1.0-D2.0 FOR DEMOLITION WORK REQUIRED.
6. REFER TO SHEETS A7.1 & A7.2 FOR DOORS AND FRAMES AND ASSOCIATED DETAILS.
7. REFER TO SHEET A3.1 FOR ELEVATION GENERAL NOTES AND KEY NOTES.
8. REFER TO SHEET A0.0 FOR ALTERNATE INFORMATION.

NEW WORK KEY NOTES

NOTE: NOT ALL KEY NOTES MAY APPLY TO THIS SHEET.

1. FURNITURE / SHELVING / EQUIPMENT, NIC.
2. CMU/STEEL LINTEL ABOVE, REFER TO STRUCTURAL & CEILING PLANS.
3. DISPLAY CASE REFER TO ELEVATION 1/A3.2.
4. MASONRY INFILL, TOOTH-IN INFILL TO NEAREST MASONRY JOINT ON EITHER SIDE AND ALIGN WITH FACE OF WALL. SEE DEMOLITION PLAN ON D1.0.
5. STEEL COLUMN, REFER TO STRUCT., PAINT WHEN EXPOSED TO VIEW.
6. PATCH/REPAIR FLOOR WHERE PORTION OF EXISTING WALL WAS REMOVED TO MATCH EXISTING ADJACENT AND PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
7. WASHER AND DRYER, NIC, PROVIDE MECH, PLUMBING AND ELEC. HOOK-UP
8. NOT USED.
9. BASKETBALL GOAL ABOVE.
10. WALL MOUNTED TEACHERS MAILBOX, REFER TO CASEWORK NOTES AND SPECS.
11. 1" RECESSED CONCRETE FLOOR SLAB, AT ADA SHOWER FOR POSITIVE DRAINAGE TO DRAIN, REFER TO ROOM FINISH GROUPS (RFG) FOR FLOOR FINISH.
12. DASHED LINE INDICATES NEW PRE-ENGINEERED CANOPY ABOVE, REFER TO ROOF PLAN.
13. ATHLETIC WALL PADS AT LENGTH INDICATED ON PLANS REFER TO SPECS.
14. INDUSTRIAL STAIR TO ROOF HATCH ABOVE, REFER TO DETAIL 5/A5.1. COORDINATE PLACEMENT WITH EXISTING JOIST SPACING & LOCATIONS.
15. WALL MOUNTED HANDRAIL, REFER TO DETAILS 11 & 12/A5.3.
16. FIRE RATING, IS KDE REQUIREMENT.
17. SEAL ALL OPENINGS AND PENETRATIONS IN EXISTING WALL TO MAINTAIN FIRE RATING.

SYMBOLS LEGEND

Name	
101 #1	ROOM FINISH GROUPS (REFER TO SHEET A0.0 ROOM NUMBER
X	DOOR NUMBER (DOOR SCHEDULE SHEET A7.1)
X	NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.3)
X	WALL TYPE (SCHEDULE SHEET A0.0)
X	ALUMINUM OR HOLLOW METAL FRAME OR STOREFRONT TYPE (REFER TO FLOOR PLANS AND SCHEDULE SHEETS A7.1)
X	ELEVATION KEY NOTE (SHEET A3.1)
X	TOILET ACCESSORY (SHEET A2.2)
X	SIGNAGE KEY NOTE (SHEET A0.0)
X	ROOM / WALL DESIGNATION FR2 2 HOUR FIRE RESISTANT BARRIER
FE	WALL MOUNTED FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
CR	CARD READER

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE S. SHEFIELD NO. 32263 LICENSED ARCHITECT COMMONWEALTH OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ENLARGED FLOOR PLANS AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A2.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A2.2 ENLARGED FLOOR PLANS AND DETAILS
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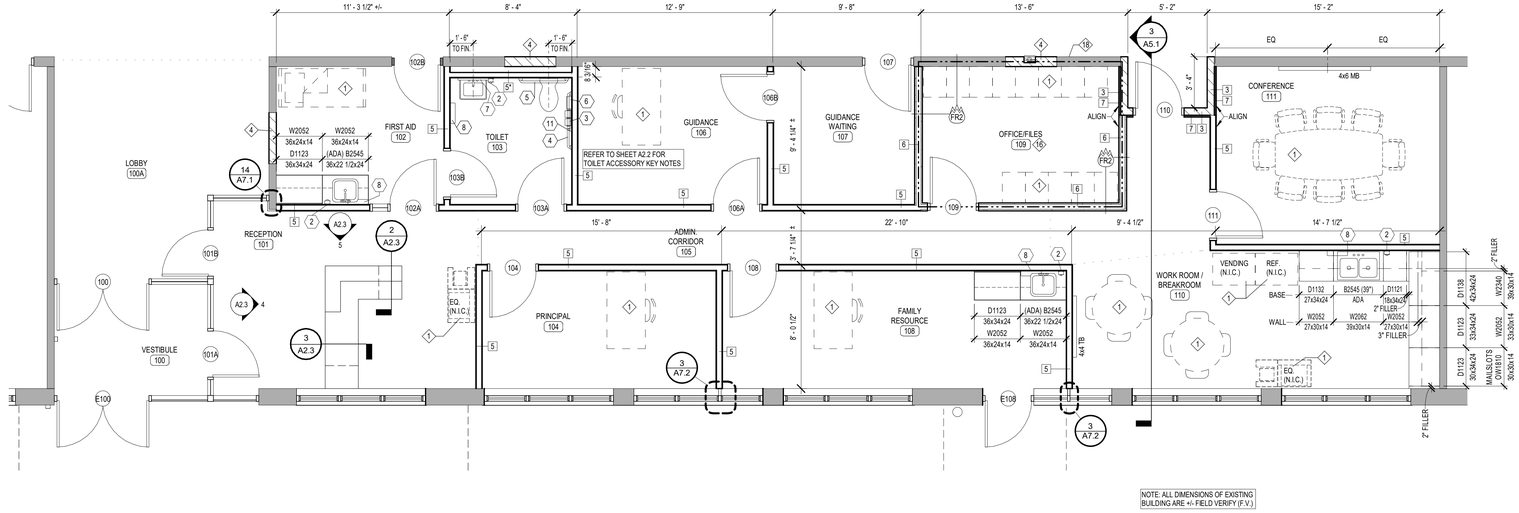
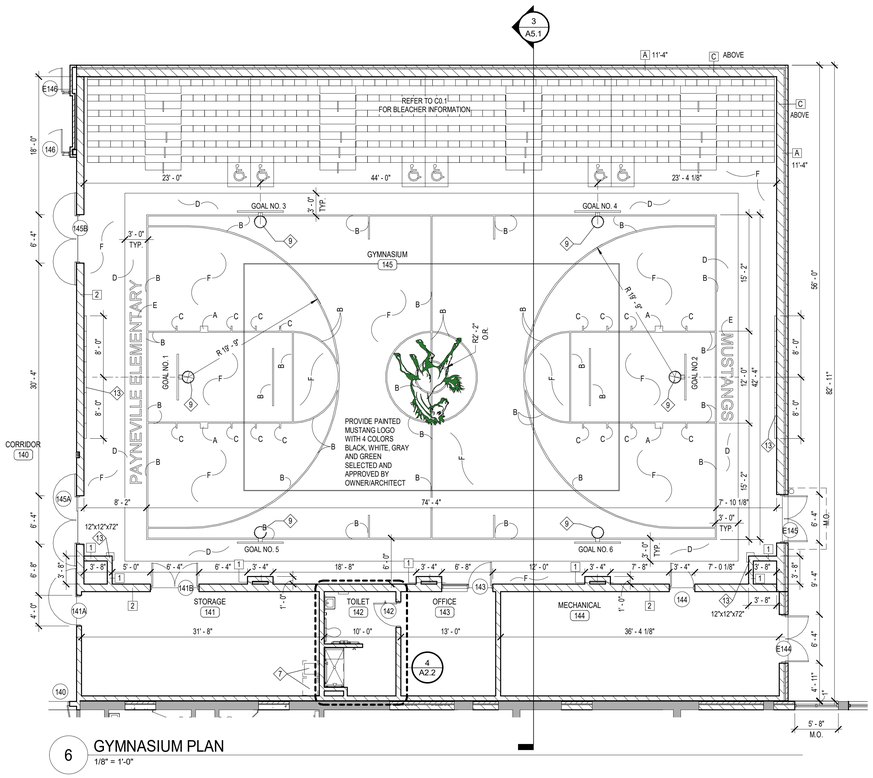
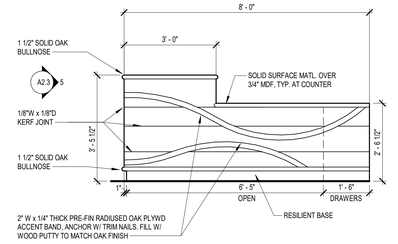


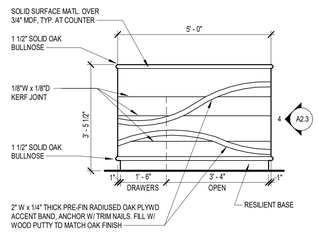
1 ADMINISTRATION SUITE
1/4" = 1'-0"



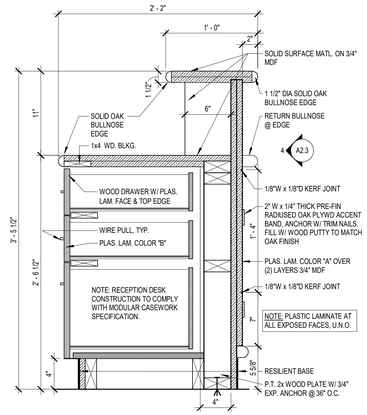
6 GYMNASIUM PLAN
1/8" = 1'-0"



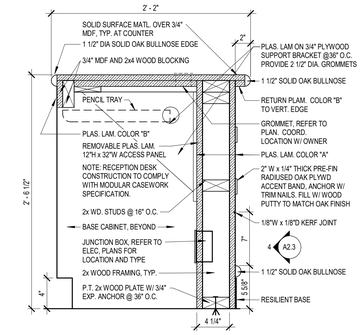
4 RECPTIONIST DESK FRONT ELEVATION
1/2" = 1'-0"



5 RECEPTIONIST DESK SIDE ELEVATION
1/2" = 1'-0"



2 RECEPTIONIST DESK HIGH
1 1/2" = 1'-0"



3 RECEPTIONIST DESK LOW
1 1/2" = 1'-0"

GYM STRIPING KEY NOTES

- A - 12"W x 8"L BOX (GREEN GLOSS AS SELECTED BY OWNER/ARCHITECT)
- B - 2"W STRIPE (GREEN GLOSS AS SELECTED BY OWNER/ARCHITECT)
- C - 2"W x 8"L STRIPE (GREEN GLOSS AS SELECTED BY OWNER/ARCHITECT)
- D - 3'-0"W STRIPE, (GREEN GLOSS AS SELECTED BY OWNER/ARCHITECT)
- E - 24" H. LETTERS (PAINTED WHITE/BLACK GLOSS VARSITY FONT)
- F - FIELD COLOR STAIN (BY OWNER)
- G - 2"W STRIPE (WHITE GLOSS)
- H - FIELD COLOR (GRAY GLOSS SELECTED BY OWNER/ARCHITECT)
- J - LOGO COLOR 1 (BLACK GLOSS)
- K - LOGO COLOR 2 (WHITE GLOSS)
- L - LOGO COLOR 3 (GREEN GLOSS SELECTED BY OWNER/ARCHITECT)
- M - LOGO COLOR 3 (GRAY GLOSS SELECTED BY OWNER/ARCHITECT)

NOTE: STRIPING CONTRACTOR TO CONFIRM STRIPING LAYOUT COMPLIES WITH CURRENT KHSAA GUIDELINES. FINAL GYM STRIPING COLORS TO BE SELECTED AND CONFIRMED BY OWNER & ARCHITECT.

GENERAL NEW WORK NOTES

1. REFER TO MECH./ELEC. DRAWINGS FOR SPECIFIC NOTES REGARDING MECH/ELEC.
2. REFER TO MEP DRAWINGS FOR INFORMATION REGARDING MEP WORK AT ROOF.
3. REFER TO SHEET A0.0 FOR GENERAL NOTES AND PARTITION TYPES.
4. REFER TO DETAILS ON SHEET A5.4 FOR TYPICAL WALL INTERSECTION DETAILS.
5. REFER TO SHEETS D1.0-D2.0 FOR DEMOLITION WORK REQUIRED.
6. REFER TO SHEETS A7.1 & A7.2 FOR DOORS AND FRAMES AND ASSOCIATED DETAILS.
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1. FURNITURE / SHELVING / EQUIPMENT, NIC.
2. CMU/STEEL LINTEL ABOVE, REFER TO STRUCTURAL & CEILING PLANS.
3. DISPLAY CASE REFER TO ELEVATION 1/A3.2.
4. MASONRY INFILL, TOOTH-IN INFILL TO NEAREST MASONRY JOINT ON EITHER SIDE AND ALIGN WITH FACE OF WALL. SEE DEMOLITION PLAN ON D1.0.
5. STEEL COLUMN, REFER TO STRUCT., PAINT WHEN EXPOSED TO VIEW.
6. PATCH/REPAIR FLOOR WHERE PORTION OF EXISTING WALL WAS REMOVED TO MATCH EXISTING ADJACENT AND PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
7. WASHER AND DRYER, NIC, PROVIDE MECH, PLUMBING AND ELEC. HOOK-UP
8. NOT USED.
9. BASKETBALL GOAL ABOVE.
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SYMBOLS LEGEND

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- X — TOILET ACCESSORY (SHEET A2.2)
- X — SIGNAGE KEY NOTE (SHEET A0.0)
- X — ROOM / WALL DESIGNATION FR2 2 HOUR FIRE RESISTANT BARRIER
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- CR — CARD READER

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

M. SCOTT FIELD LICENSED ARCHITECT KENTUCKY NO. 32563

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ENLARGED FLOOR PLAN AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A2.3

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A23_ENLARGED FLOOR PLAN AND DETAILS.dwg
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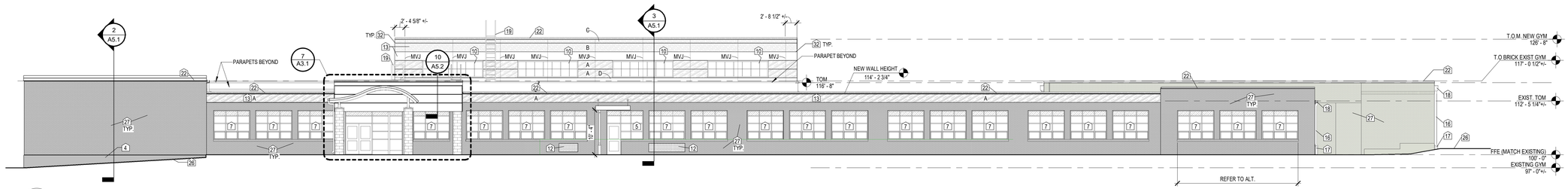
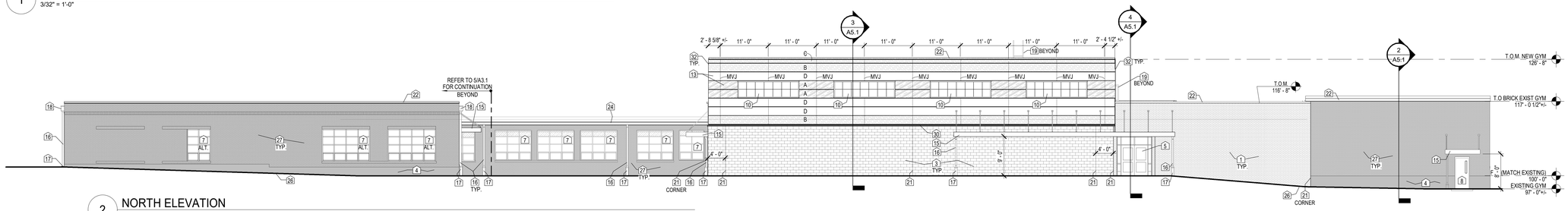
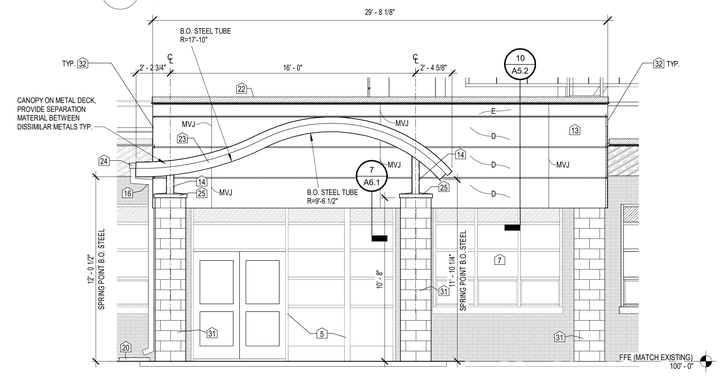


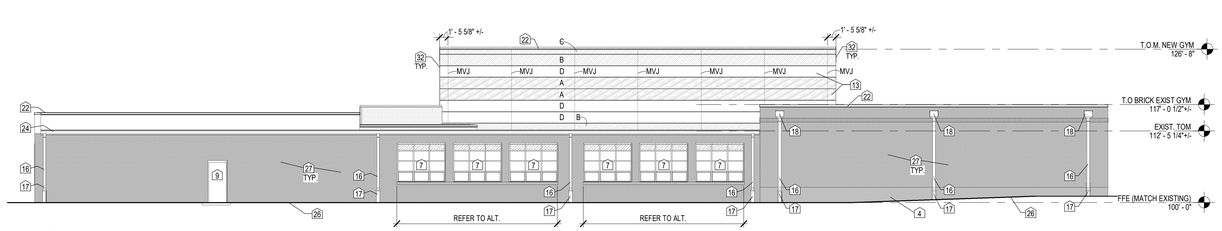
1 SOUTH ELEVATION
3/32" = 1'-0"



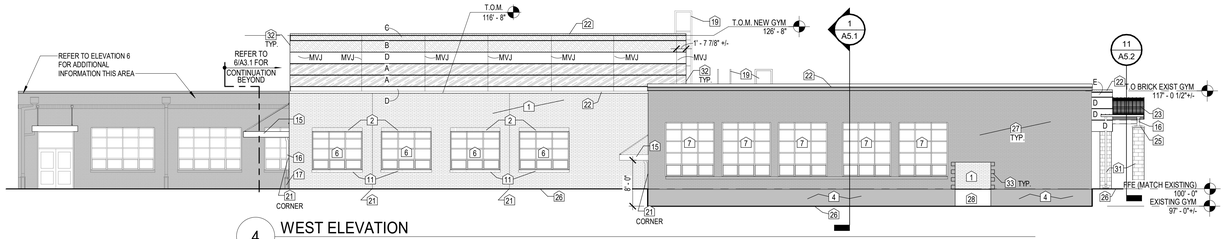
2 NORTH ELEVATION
3/32" = 1'-0"



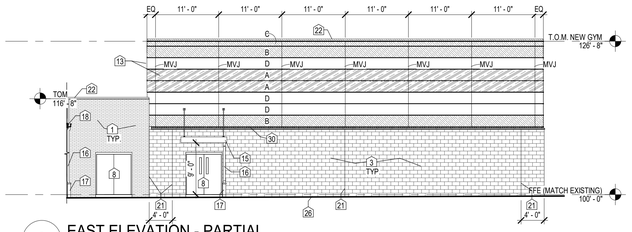
7 ENLARGED ENRTY ELEVATION
1/4" = 1'-0"



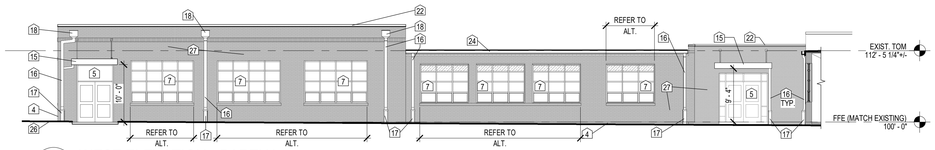
3 EAST ELEVATION
3/32" = 1'-0"



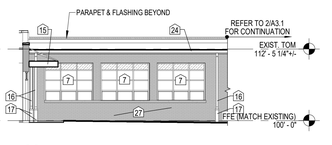
4 WEST ELEVATION
3/32" = 1'-0"



8 EAST ELEVATION - PARTIAL
3/32" = 1'-0"



6 WEST ELEVATION - PARTIAL
3/32" = 1'-0"



5 NORTH ELEVATION - PARTIAL
3/32" = 1'-0"

GENERAL ELEVATION NOTES

BUILDING ELEVATIONS SHOWN ON THIS DRAWING ARE INTENDED FOR GENERAL REFERENCE PURPOSES ONLY. REFER TO REFERENCED SECTIONS AND DETAILS FOR MORE FULLY DESCRIBED CONDITIONS AND REQUIREMENTS.

A. MATERIALS INDICATIONS AND DESCRIPTIONS, VERTICAL AND OTHER DIMENSIONS SHOWN ON ONE BUILDING ELEVATION APPLY TO OTHER BUILDING ELEVATIONS WHERE SHOWN UNLESS NOTED OTHERWISE.

B. LINES REPRESENTING PAVING AND FINISH GRADES ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO SITE PLANS FOR SPECIFIC GRADE AND SPOT ELEVATIONS AT EACH RESPECTIVELY.

C. REFER TO FLOOR PLANS FOR LOCATION AND DOOR SCHEDULE FOR FULL EXTENT AND COMPLETE DESCRIPTION OF DOOR AND FRAME TYPES. PORTIONS OF DOORS, WINDOWS STOREFRONTS, AND CURTAIN WALLS MAY BE CONCEALED BY OTHER BUILDING FEATURES SHOWN.

D. REFER TO FLOOR PLANS FOR SPECIFIC ALUMINUM FRAME TYPES AND FRAME ELEVATIONS.

E. LOCATIONS OF CONTROL/EXPANSION JOINTS IN MASONRY WALLS ARE SHOWN ON THIS DRAWING. SEE TYPICAL DETAILS ON SHEET 5/A5.3 FOR SPECIFIC REQUIREMENTS AT RESPECTIVE LOCATIONS.

F. ALL EXPOSED EXISTING AND NEW EXTERIOR MASONRY, EXCEPT CALCIUM SILICATE MASONRY, SHALL RECEIVE APPLICATION OF SPECIFIED WATER REPELLENT.

G. ALL EXPOSED EXTERIOR METAL SUCH AS FLASHINGS, COPINGS, GUTTERS DOWNSPOUTS AND LADDERS SHALL RECEIVE THE SPECIFIED FIELD OR SHOP APPLIED FINISH COATING. REFER TO SPECS.

ELEVATION KEY NOTES

(X)

1. NEW FACE BRICK.
2. BRICK SOLDIER COURSE - PROJECTED 3/8".
3. SPLIT FACE CMU.
4. EXISTING POURED CONCRETE WALL TO REMAIN. CLEAN AS REQ'D. AND PROVIDE NEW PARGE COAT & PAINT.
5. ALUMINUM STOREFRONT SYSTEM.
6. NEW ALUMINUM FRAME.
7. NEW ALUMINUM FRAME IN EXISTING OPENING.
8. NEW HOLLOW METAL DOOR AND FRAME, PAINT.
9. NEW HOLLOW METAL DOOR IN EXISTING FRAME, PAINT EXISTING FRAME AND NEW DOOR.
10. TRANSLUCENT WALL PANEL SYSTEM.
11. CAST STONE SILL, REFER TO DETAILS AND SPECIFICATIONS.
12. EXISTING LOUVER TO BE INFILLED WITH BRICK TO MATCH EXISTING ADJACENT. CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND DIMENSIONS PRIOR TO BID. REFER TO TYPICAL INFILL DETAIL 14/A5.3.
13. METAL WALL PANELS.
14. STEEL COLUMN, PAINT, SEE STRUCT.
15. PRE-MFR CANOPY. REFER TO ROOF PLAN.
16. DOWNSPOUT.
17. DOWNSPOUT BOOT (FIELD PAINT) REFER TO CIVIL DRAWINGS.
18. CONDUCTOR HEAD, REFER TO ROOF PLAN.
19. LADDER. REFER TO ROOF PLAN.
20. CONCRETE SPLASH BLOCK
21. BRICK CONTROL/EXPANSION JOINT, REFER TO DETAILS
22. COPING, REFER TO DETAILS.
23. CANOPY
24. NEW GUTTER/ FASCIA.
25. CAST STONE CAP, REFER TO DETAILS AND SPECIFICATIONS.
26. FINISH GRADES VARY REFER TO SITE DRAWINGS.
27. EXISTING BRICK TO REMAIN, CLEAN AND PREPARE EXISTING BRICK TO RECEIVE NEW BRICK STAIN TO MATCH NEW BRICK.
28. NEW POURED CONCRETE WALL, PROFILE AND FINISH TO MATCH EXISTING.
29. NOT USED
30. CAST STONE.
31. CALCIUM SILICATE MASONRY
32. PROVIDE PRE-MANUFACTURED / PRE-FORMED METAL PANEL CORNERS, TYP.
33. TOOTH-IN NEW MASONRY.

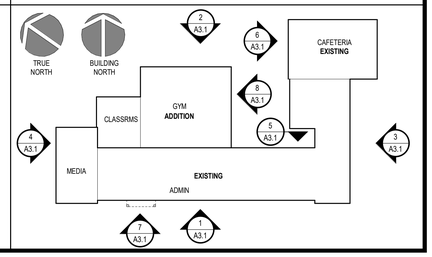
ELEVATION LEGEND

- NEW FACE BRICK.
- EXISTING FACE BRICK.
- SPLIT FACE CMU.
- LIGHT GRAY — PRE-FIN. METAL WALL PANELS TYPE 'A'. 2'-0" NOM. TALL X 11'-0" NOM. LONG. CENTER ON WALLS AND ON OPENINGS.
- GREEN — PRE-FIN. METAL WALL PANELS TYPE 'B'. 2'-0" NOM. TALL X 11'-0" NOM. LONG. OR PRE-FIN. METAL WALL PANELS TYPE 'C'. 10" TALL X 11'-0" NOM. LONG (TOP PANEL AT GYM).
- DARK GRAY — PRE-FIN. METAL WALL PANELS TYPE 'D'. 2'-0" NOM. TALL X 11'-0" NOM. LONG. CENTER ON WALLS AND ON OPENINGS. OR PRE-FIN. METAL WALL PANELS TYPE 'E'. 10" NOM. (FRONT ENTRY).
- MVJ — METAL PANEL VERTICAL JOINT, CENTER ON WALL AND BETWEEN OPENINGS, TYP.

SYMBOLS LEGEND

- Name 101 # — ROOM FINISH GROUPS (REFER TO SHEET A0.0 ROOM NUMBER
- (X) — DOOR NUMBER (DOOR SCHEDULE SHEET A7.1)
- (X) — NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.3)
- [X] — WALL TYPE (SCHEDULE SHEET A0.0)
- (X) — ALUMINUM OR HOLLOW METAL FRAME OR STOREFRONT TYPE (REFER TO FLOOR PLANS AND SCHEDULE SHEETS A7.1)
- [X] — ELEVATION KEY NOTE (SHEET A3.1)
- (X) — TOILET ACCESSORY (SHEET A2.2)
- (X) — SIGNAGE KEY NOTE (SHEET A0.0)
- XX / X — ROOM / WALL DESIGNATION
- FR2 — 2 HOUR FIRE RESISTANT BARRIER
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- CR — CARD READER

KEY PLAN



SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE S. SATTERFIELD NO. 32263 REGISTERED ARCHITECT COMMONWEALTH OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

EXTERIOR BUILDING ELEVATIONS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A3.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
ARCHITECTURAL ELEVATIONS.DWG
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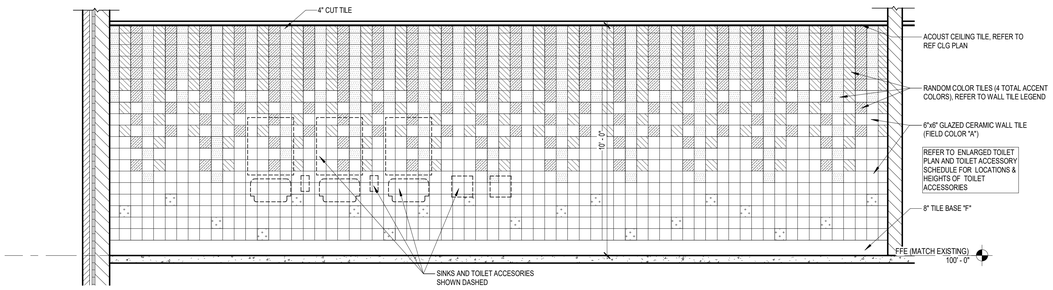
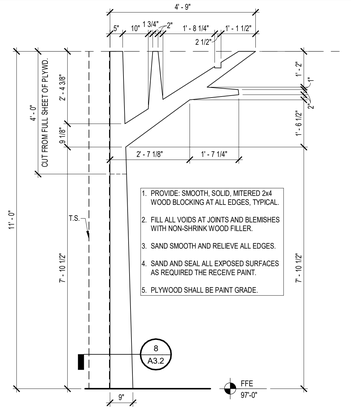
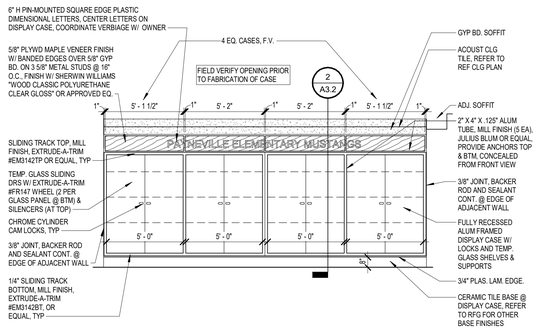


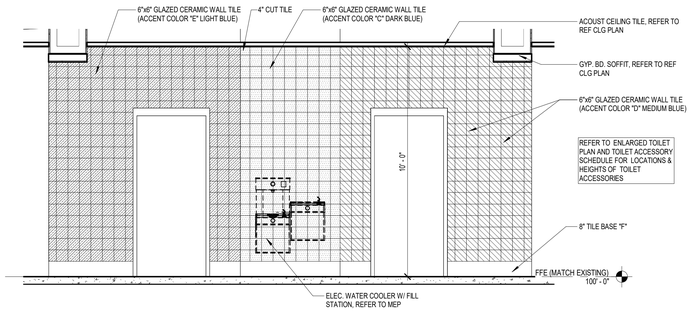
12 BOYS RESTROOM TILE LAYOUT (GIRLS SIM. OPP. HAND)
3/8" = 1'-0"



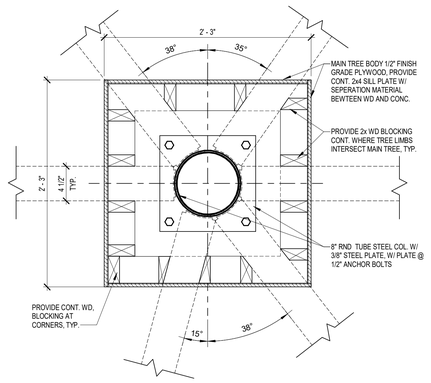
4 ELEVATION VIEW OF TREE @ MEDIA CENTER
1/2" = 1'-0"



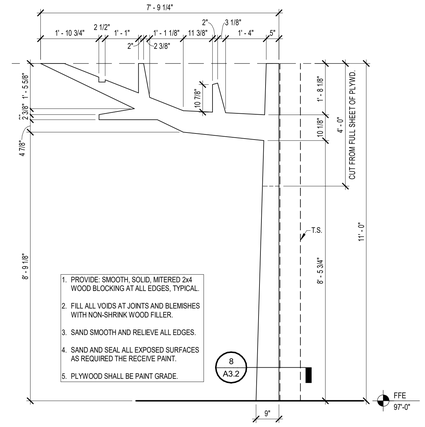
1 DISPLAY CASE ELEVATION
1/4" = 1'-0"



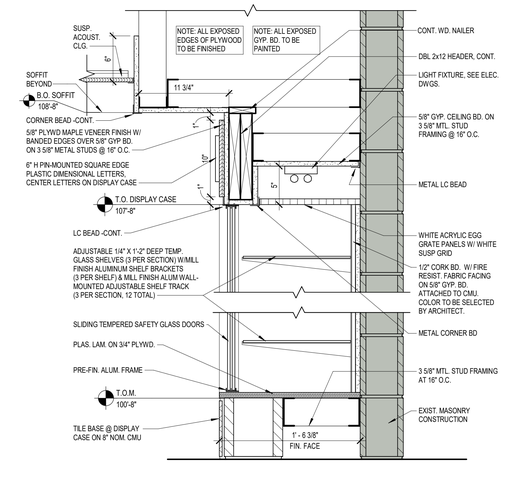
13 RESTROOM ENTRY LAYOUT
3/8" = 1'-0"



8 TREE BASE DETAIL
1 1/2" = 1'-0"



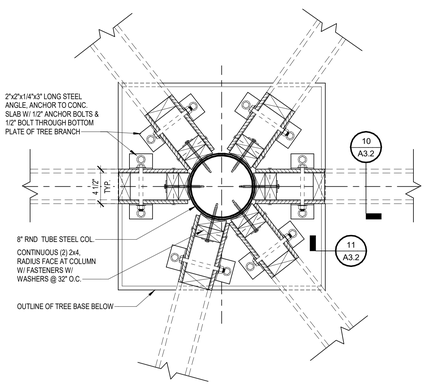
5 ELEVATION VIEW OF TREE @ MEDIA CENTER
1/2" = 1'-0"



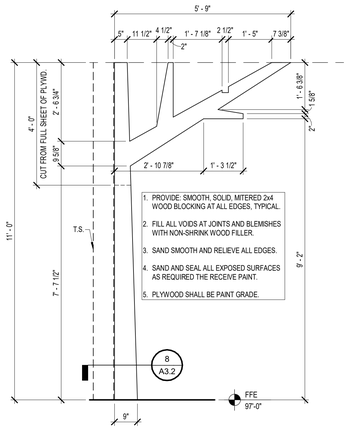
2 DISPLAY CASE SECTION
1 1/2" = 1'-0"

WALL TILE LEGEND

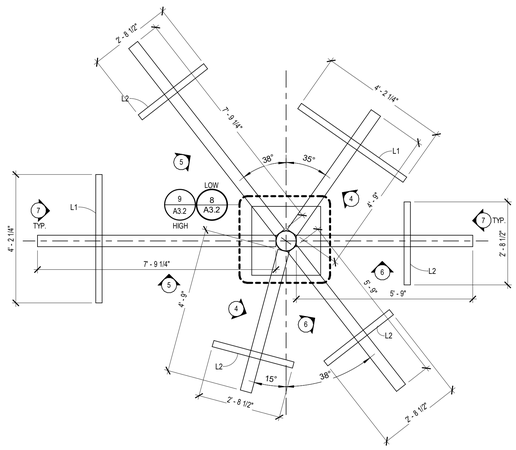
	"A"	CERAMIC WALL TILE FIELD COLOR WHITE
	"B"	CERAMIC WALL TILE ACCENT LIGHT GRAY
	"C"	CERAMIC WALL TILE ACCENT COLOR DARK BLUE
	"D"	CERAMIC WALL TILE ACCENT COLOR MEDIUM BLUE
	"E"	CERAMIC WALL TILE ACCENT COLOR LIGHT BLUE
	"F"	CERAMIC BASE TILE, MATCH FLOOR



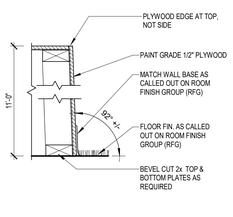
9 TREE CONECTION DETAIL
1 1/2" = 1'-0"



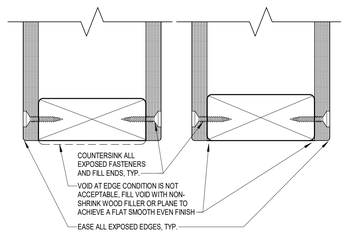
6 ELEVATION VIEW OF TREE @ MEDIA CENTER
1/2" = 1'-0"



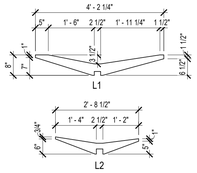
3 PLAN VIEW OF TREE @ MEDIA CENTER
1/2" = 1'-0"



11 TREE TRUNK SECTION
1 1/2" = 1'-0"



10 TREE FINISH DETAIL
6" = 1'-0"



7 ELEVATION VIEW OF TREE @ MEDIA CENTER
1/2" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS
KY STATE FIELD NOT REGISTERED
IN STATE OF KENTUCKY
REGISTERED ARCHITECT

FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

INTERIOR ELEVATIONS AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A3.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
ALL PAYNEVILLE ELEMENTARY SCHOOL MATERIALS
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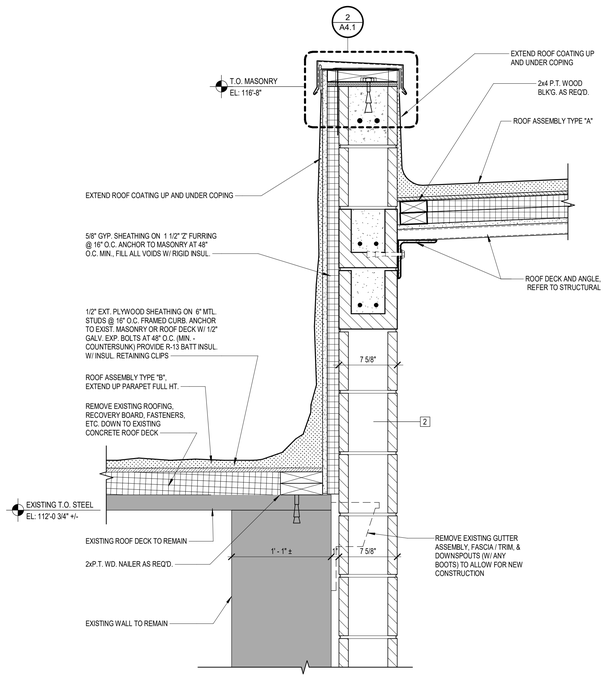
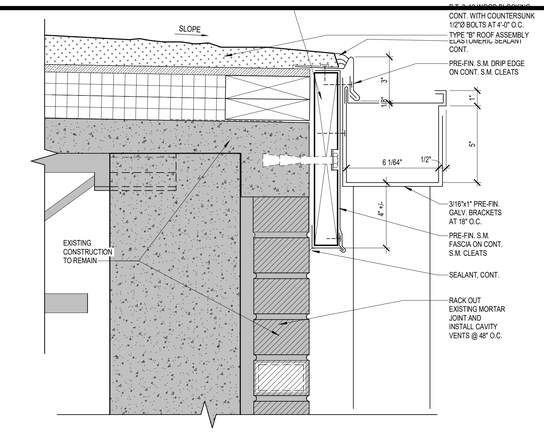
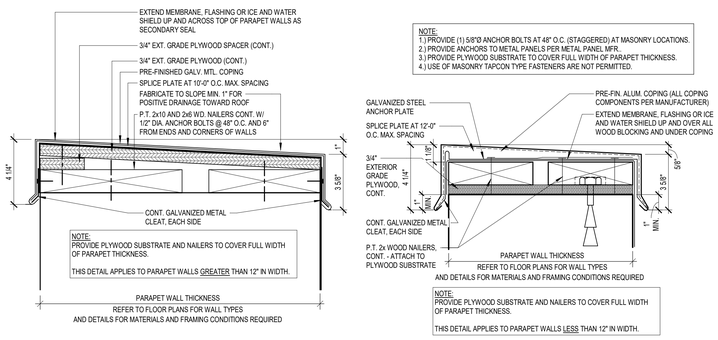


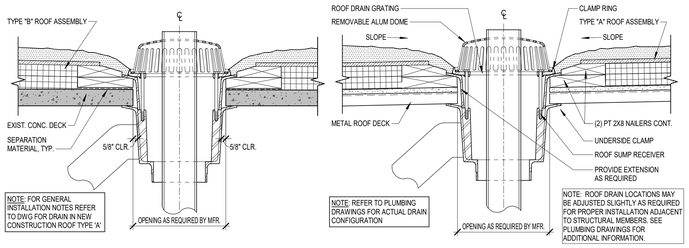
4 EXPANSION JOINT DETAIL @ EXISTING ROOF
1 1/2" = 1'-0"



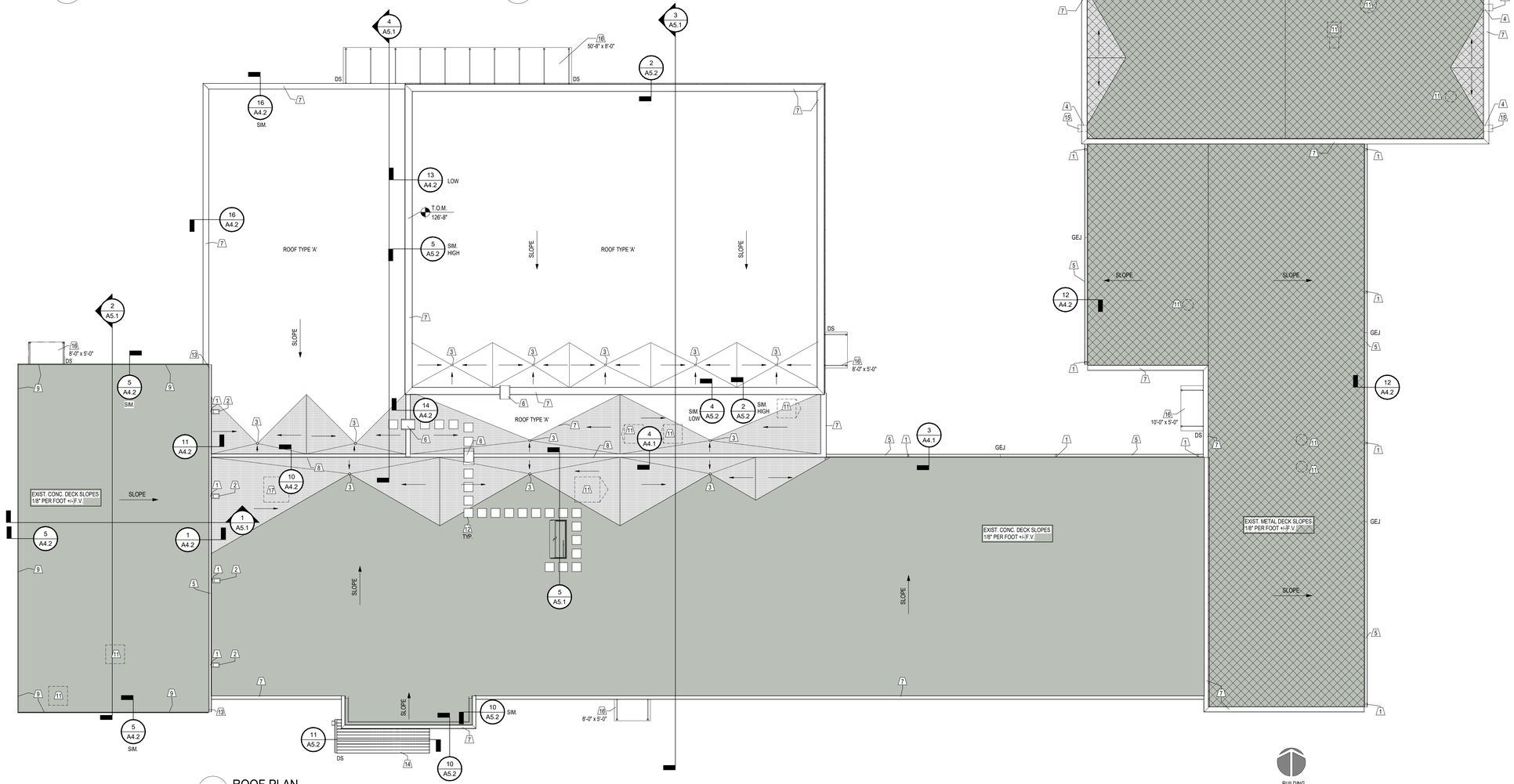
3 GUTTER DETAIL, TYP.
3" = 1'-0"



2 ROOF - 2/A1.4 TYPICAL COPING DETAIL
3" = 1'-0"



5 INTEGRAL ROOF DRAIN/OVERFLOW COMBINATION DRAIN
1 1/2" = 1'-0"



1 ROOF PLAN
3/32" = 1'-0"

BUILDING NORTH

NOTE: REFER TO SHEET D1.0 FOR GENERAL DEMOLITION NOTES AND HAZARDOUS MATERIALS AND TOXIC SUBSTANCES NOTES.

X ROOF DEMOLITION KEY NOTES

NOTE: EXISTING SPF (SPRAY FOAM) ROOF SYSTEM IS WARRANTED THROUGH INSULATED ROOFING CONTRACTORS (IRC) - (812) 206-7700 - (WAYNE HAMPTON). COORDINATE ALL DEMOLITION WORK, & SUBSEQUENT "TIE-IN" OR NEW WORK WITHIN LIMITS OF EXISTING SPRAY FOAM ROOFING PER MFR. GUIDELINES & IRC'S RECOMMENDATIONS TO MAINTAIN WATERTIGHT CONDITIONS & WATERTIGHT WARRANTY .

1. REMOVE EXISTING GUTTER, FASCIA, WOOD BLOCKING, DOWNSPOUTS W/ BOOTS, AND SPRAY FOAM ROOF & SUBSTRATE AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW WORK. REFER TO ROOF PLAN AND DETAILS.
2. REMOVE EXISTING PORTION OF SPRAY FOAM SUBSTRATE AND METAL ROOF DECK AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW ROOF DRAIN & OVERFLOW DRAIN. REFER TO DETAIL 5/A4.1 AND TO STRUCTURAL DRAWINGS.
3. REMOVE EXISTING COPING AT SLOPED PARAPET WALL AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW CONSTRUCTION AND EXPANSION JOINT. REFER TO DETAILS ON SHETTS A4.1 AND A4.2.

GENERAL ROOF NOTES

1. DOWNSPOUTS WHICH DO NOT DISCHARGE ONTO A LOWER ROOF SURFACE SHALL BE CONNECTED TO FIELD PAINTED BOOTS UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS.
2. ALL ROOFING AND RAIN DRAINAGE RELATED WORK SHALL BE DONE SUCH THAT A WATERTIGHT INSTALLATION IS ACHIEVED AND MAINTAINED.
3. ANY FOOT TRAFFIC OR STORAGE OF MATERIALS ON NEW OR PARTIALLY INSULATED ROOF MUST BE CONFINED TO PROTECTED LOCATIONS. THESE TRAFFIC AREAS WILL INCLUDE A MINIMUM 1" LAYER OF INSULATION WITH 1/2" PLYWOOD SHEATHING.
4. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ROOFING/FLASHING WITH OTHER TRADES FOR ADDITIONAL WORK REQUIRED. (I.E., FLASHING OF EQUIPMENT CURBS).
5. FLASH ALL ROOF PENETRATIONS PER MANUFACTURER'S STANDARD DETAILS FOR A WATERTIGHT INSTALLATION.
6. REFER TO M&E DRAWINGS FOR ROOF TOP ITEMS NOT SHOWN ON THIS PLAN.
7. REFER TO THIS SHEET, A4.2 & A5.2 FOR TYPICAL ROOF DETAILS.
8. AT ROOF TYPES 'A', 'B' & 'C' SPRAY APPLIED POLYURETHANE ROOF SYSTEM SHALL EXTEND UP FULL HEIGHT OF PARAPET WALLS AND UNDER FASCIA DRIP EDGE OF COPING UNLESS OTHERWISE NOTED.
9. GEJ = GUTTER EXPANSION JOINT, PER SMACNA GUIDELINES.

X ROOF KEY NOTES

1. 5"x5" PRE-FINISHED METAL DOWNSPOUT TO BOOT & STORM DRAINAGE, OR TO SPLASHBLOCK AT LOWER ROOF CONDITIONS.
2. PROVIDE PRECAST CONC. SPLASHBLOCKS SET ON WALKWAY PADS AT ALL DOWNSPOUTS DISCHARGING TO A LOWER ROOF SURFACE.
3. ROOF DRAIN - REFER TO DETAIL 5/A4.1 - (SEE PLUMBING DWGS.).
4. SCUPPER - SEE DETAIL 4/A4.2
5. 6"x6" GUTTER.
6. PRE-MANUFACTURED HEAVY-DUTY FACTORY ALUMINUM, MILL FINISH, FIXED ROOF LADDER WITH WALK-THRU PLATFORM BY PRECISION LADDERS INC. OR APPROVED EQUAL. EXPANSION BOLT TO MASONRY OR THROUGH TO CMU CONCRETE. SEAL ALL PENETRATIONS.
7. COPING - SEE TYP. DETAIL 2/A4.1 & OTHER DETAILS ON SHTS. A4.1, A4.2 & A5.2.
8. ROOF TO WALL EXPANSION JOINT.
9. EDGE OF NEW FASCIA AND SPRAY FOAM, REFER TO DETAILS.
10. VENT PIPE PENETRATION - SEE DETAIL 8/A4.2.
11. ROOFTOP MECHANICAL UNIT - REFER TO MECHANICAL DWGS. PROVIDE CRICKETS WHERE APPLICABLE. - REFER TO CURB DETAIL 7/A4.2.
12. 24"x24" ROOF WALKWAY PADS - REFER TO SPECIFICATIONS.
13. FASCIA EDGE RETURN, REFER TO DETAIL6/A4.2.
14. WALKWAY COVER.
15. PRE-FINISHED METAL CONDUCTOR HEAD TO 6"x6" PRE-FINISHED METAL DOWNSPOUT, SEE DETAIL 3/A4.2.
16. PRE-MANUFACTURED, WALL HUNG CANOPY, AND INTEGRAL DOWNSPOUT. LENGTH INDICATED ON ROOF PLAN. REFER TO DETAIL 9/A4.2.
17. ROOF PATCH, REFER TO M2.1.

ROOF ASSEMBLIES

INDICATES ROOF CRICKET PER MFR. STANDARD -- 1/4" / FT. MIN. AT NEW CRICKETS ON EXISTING ROOF
-- 1/4" / FT. MIN. @ NEW ROOF

ROOF ASSEMBLY TYPE "A" (SLOPE AT 1/4" / FT. MIN.)
NEW SPRAY APPLIED POLYURETHANE ROOF SYSTEM (1 1/2" THICK) OVER 1/2" FIBERBOARD SHEATHING OVER 3" (MIN.) POLYISOCYANURATE INSULATION OVER 5/8" TYPE 'X' GYPSUM SHEATHING OVER SPECIFIED METAL ROOF DECK.

ROOF ASSEMBLY TYPE "B" (SLOPE AT 1/4" / FT. MIN.)
NEW SPRAY APPLIED POLYURETHANE ROOF SYSTEM (1 1/2" THICK) OVER 1/2" FIBERBOARD SHEATHING OVER 3" (MIN.) POLYISOCYANURATE INSULATION OVER EXISTING CONCRETE ROOF DECK.

ROOF ASSEMBLY TYPE "C" (SLOPE AT 1/4" / FT. MIN.)
NEW SPRAY APPLIED POLYURETHANE ROOF SYSTEM (1 1/2" THICK) OVER 1/2" FIBERBOARD SHEATHING OVER 3" (MIN.) POLYISOCYANURATE INSULATION OVER EXISTING METAL ROOF DECK.

SYMBOLS LEGEND

Name 101 #
- ROOM FINISH GROUPS (REFER TO SHEET A0.0
- ROOM NUMBER
- X — DOOR NUMBER (DOOR SCHEDULE SHEET A7.1)
- X — NEW WORK KEY NOTES (SHEETS A1.1 THROUGH A2.3)
- X — WALL TYPE (SCHEDULE SHEET A0.0)
- X — ALUMINUM OR HOLLOW METAL FRAME OR STOREFRONT TYPE (REFER TO FLOOR PLANS AND SCHEDULE SHEETS A7.1)
- X — ELEVATION KEY NOTE (SHEET A3.1)
- X — TOILET ACCESSORY (SHEET A2.2)
- X — SIGNAGE KEY NOTE (SHEET A0.0)
- X — ROOM / WALL DESIGNATION
- FR2 2 HOUR FIRE RESISTANT BARRIER
- FE WALL MOUNTED FIRE EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET
- CR CARD READER

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE T. SHIELD, NO. 32563, LICENSED ARCHITECT, STATE OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ROOF PLAN & DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, RP
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET
A4.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A4.1 ROOF PLAN & DETAILS.dwg
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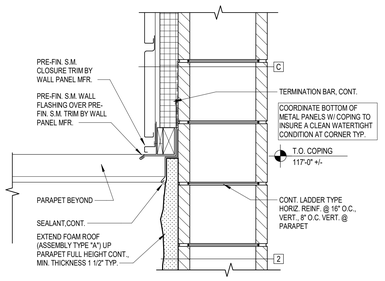
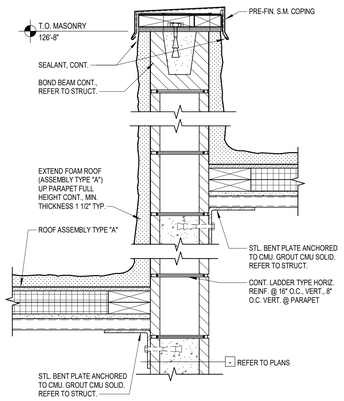
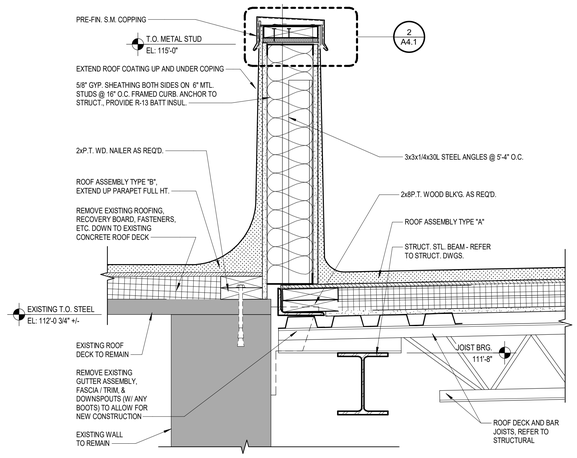


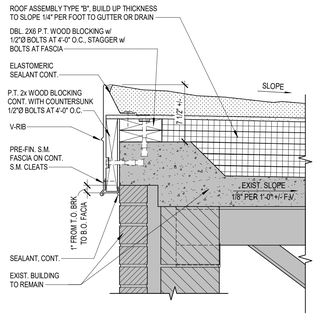
13 ROOF DETAIL
1 1/2" = 1'-0"



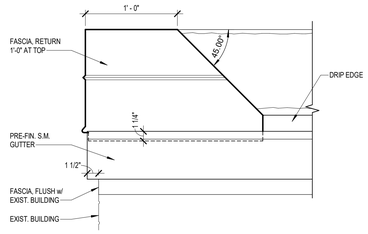
14 DETAIL
1 1/2" = 1'-0"



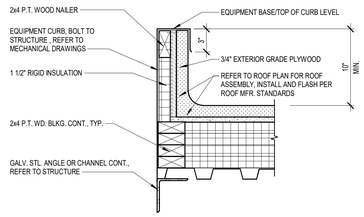
10 NEW AND EXISTING ROOF W/ PARAPET DETAIL
1 1/2" = 1'-0"



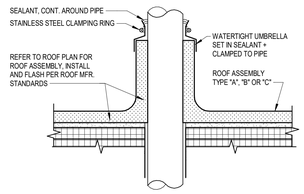
5 ROOF EDGE @ EXISTING ROOF
1 1/2" = 1'-0"



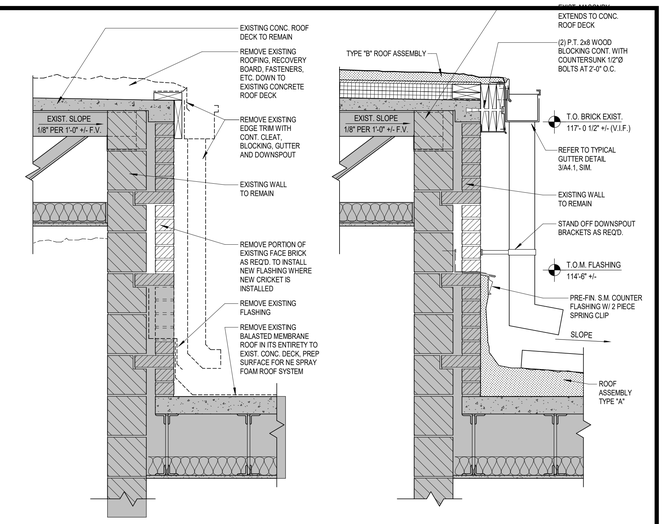
6 FASCIA RETURN AT CORNER
1 1/2" = 1'-0"



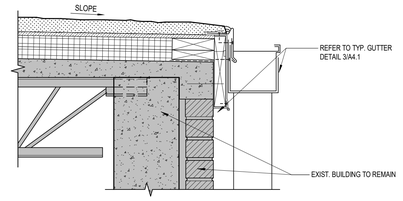
7 TYPICAL MECHANICAL CURB DETAIL
1 1/2" = 1'-0"



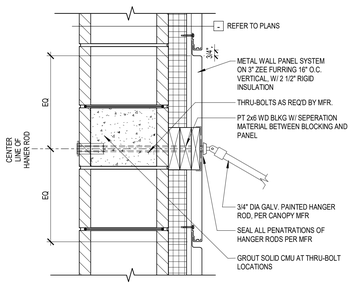
8 TYPICAL ROOF PENETRATION
1 1/2" = 1'-0"



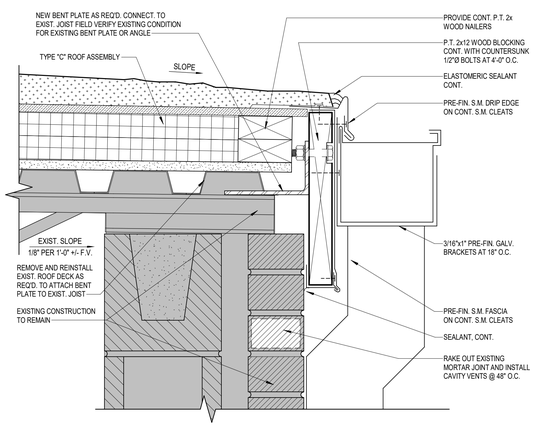
1 DEMOLITION / NEW DETAIL
1" = 1'-0"



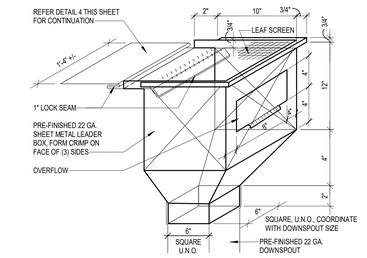
2 EXISTING WALL @ TOP W GUTTER
1 1/2" = 1'-0"



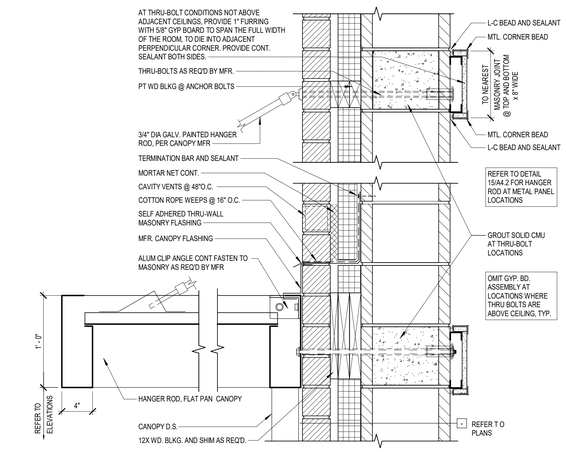
15 CANOPY HANGER DETAIL
1 1/2" = 1'-0"



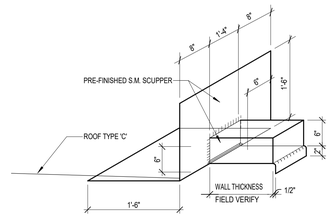
11 NEW ROOF @ EXISTING WALL DETAIL
1 1/2" = 1'-0"



3 CONDUCTOR HEAD DETAIL
1 1/2" = 1'-0"

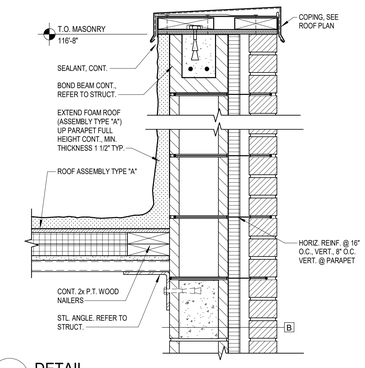


9 CANOPY DETAIL
1 1/2" = 1'-0"



4 SCUPPER DETAIL
1 1/2" = 1'-0"

12 GUTTER DETAIL, TYP. @ EXISTING METAL DECK
3" = 1'-0"



16 DETAIL
1 1/2" = 1'-0"

SHERMAN CARTER BARNHART
ARCHITECTS

FINAL DOCUMENTS

KYLE T. SHIELD
NOT REGISTERED FOR ARCHITECTURE
STATE OF KENTUCKY
32526
KENTUCKY
REGISTERED ARCHITECT

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ROOF DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET
A4.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A4.2 ROOF DETAILS
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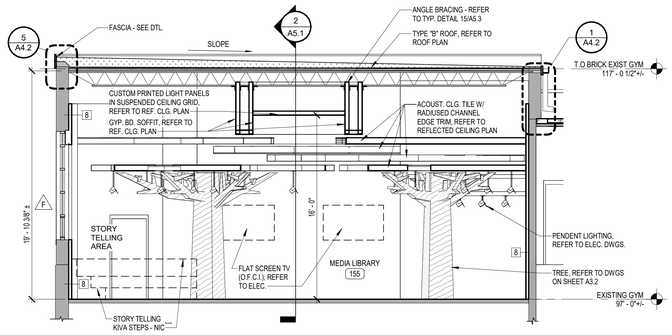
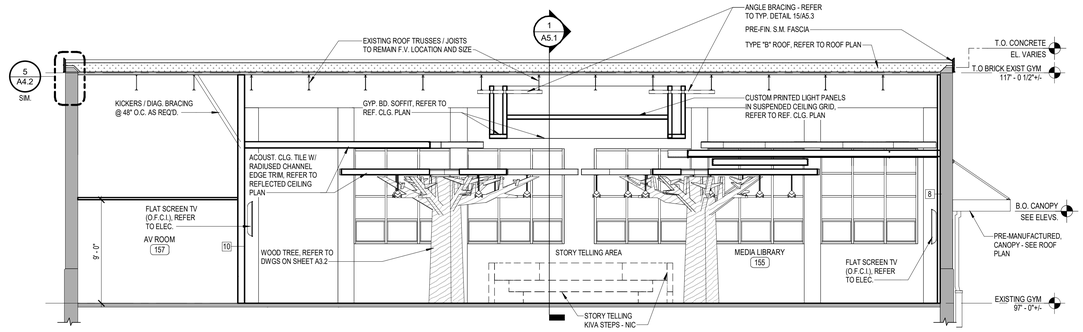
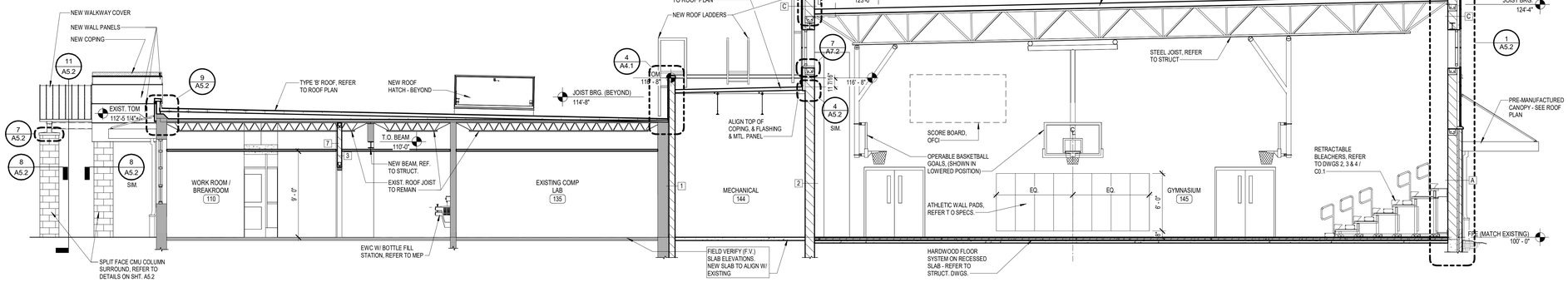


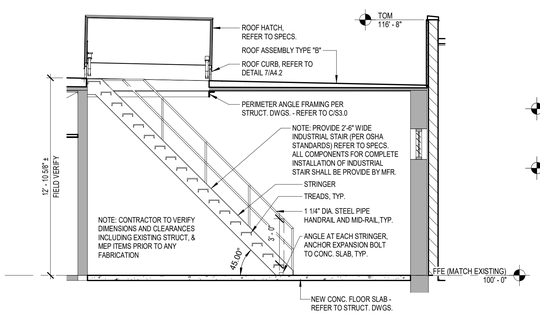
1 BUILDING SECTION
3/16" = 1'-0"



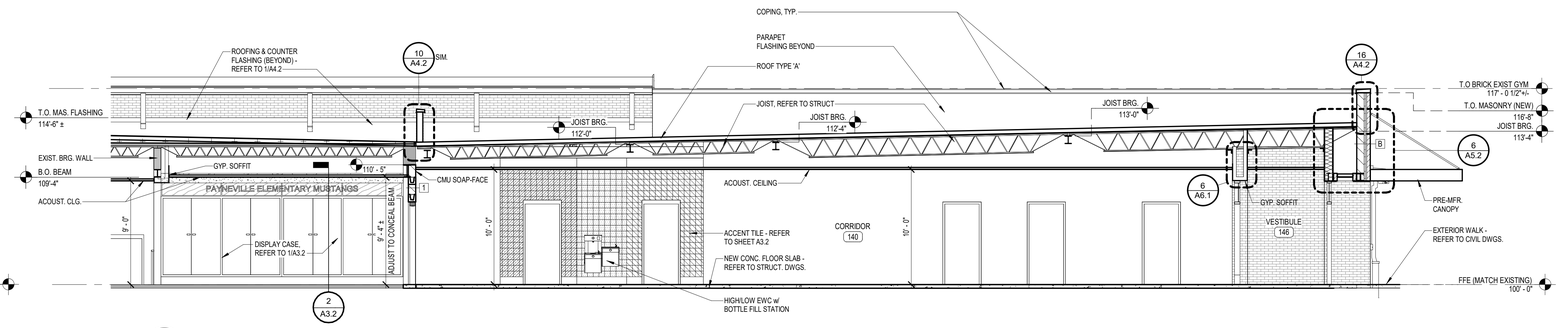
2 BUILDING SECTION
3/16" = 1'-0"



3 BUILDING SECTION
3/16" = 1'-0"



5 ROOF ACCESS
1/4" = 1'-0"



4 BUILDING SECTION
3/16" = 1'-0"

SHERMAN CARTER BARNHART
ARCHITECTS

FINAL DOCUMENTS

KENTUCKY LICENSED ARCHITECT
M. SHANE FIELD
NO. 32263
EXPIRATION DATE: 06/30/2020
STATE OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

BUILDING SECTIONS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, PWD
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A5.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A5.1 BUILDING SECTIONS
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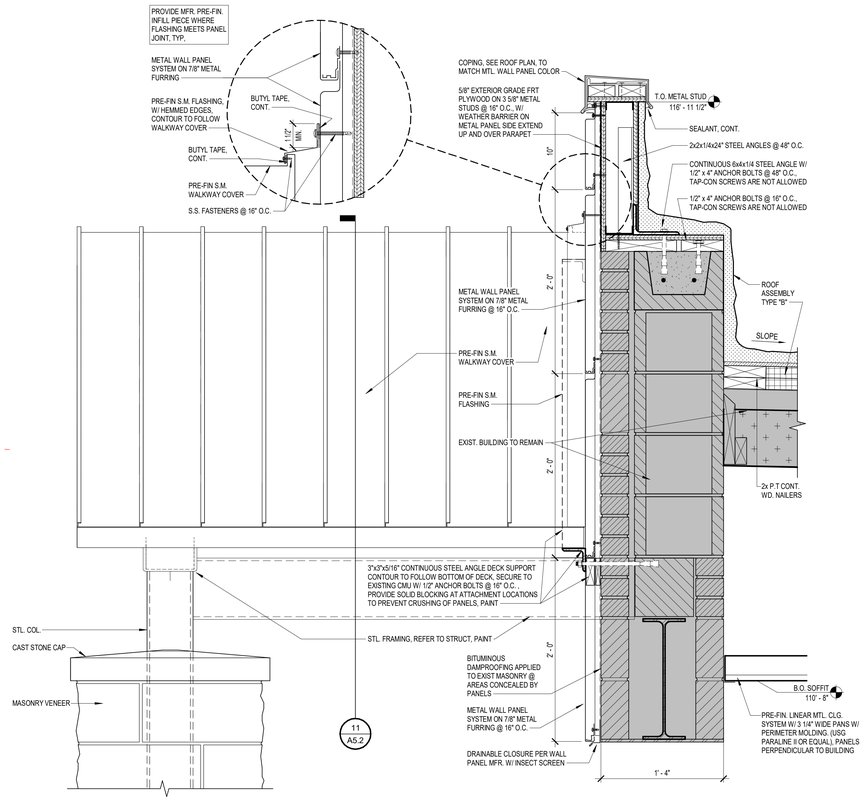
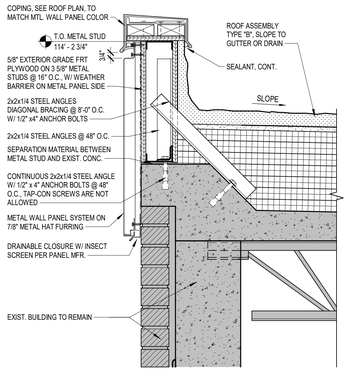
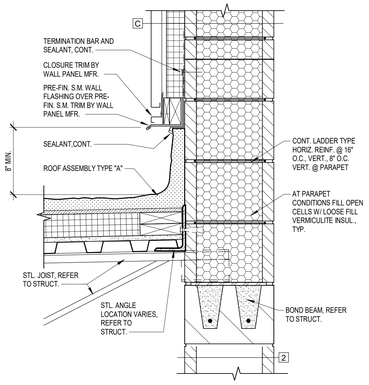
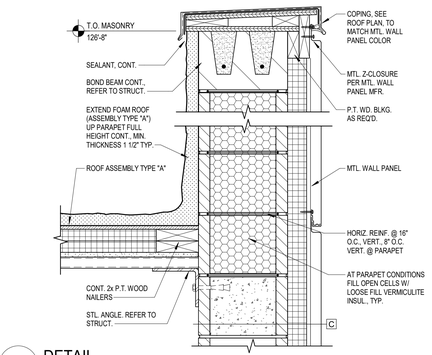


10 ROOF AT NEW ENTRY
1 1/2" = 1'-0"

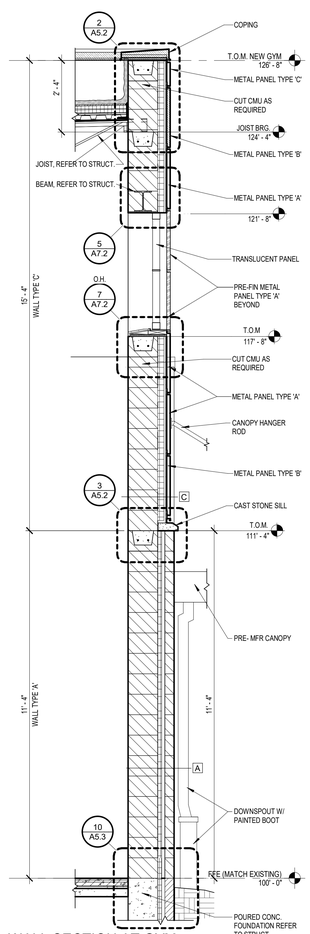




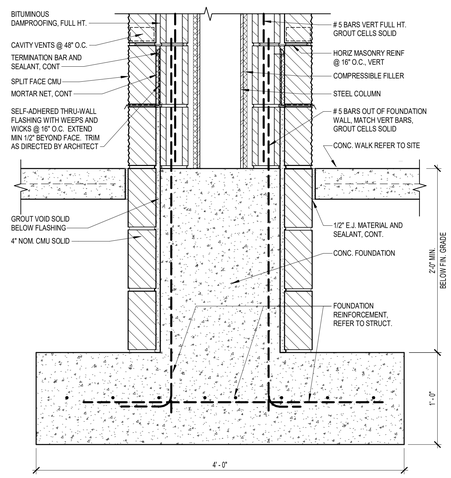
4 DETAIL
1 1/2" = 1'-0"



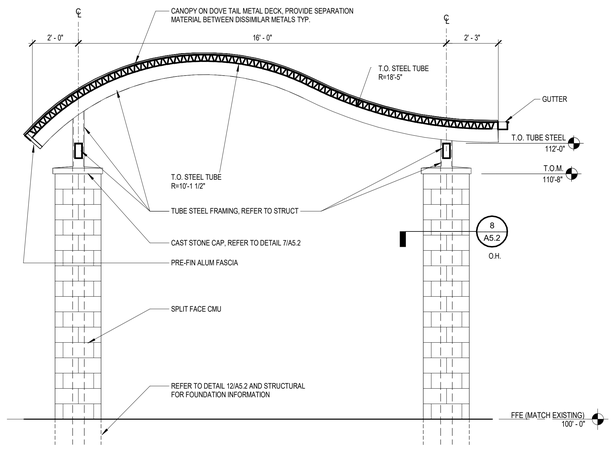
5 DETAIL
1 1/2" = 1'-0"



1 WALL SECTION AT GYM
1/2" = 1'-0"

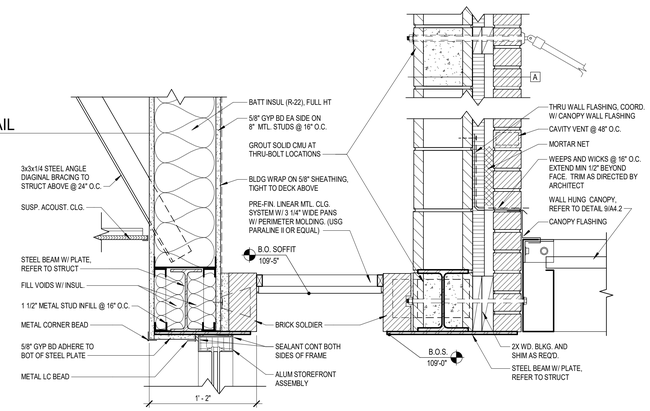


12 EXTERIOR COLUMN FOUNDATION DETAIL
1 1/2" = 1'-0"

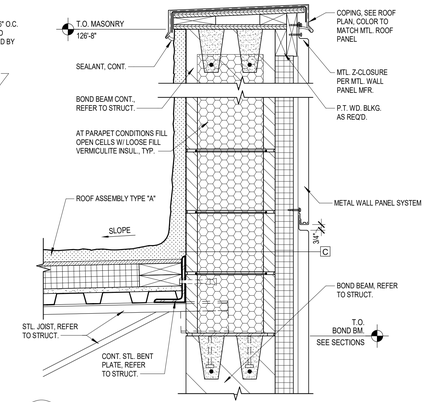


11 ENTRY SECTION
3/8" = 1'-0"

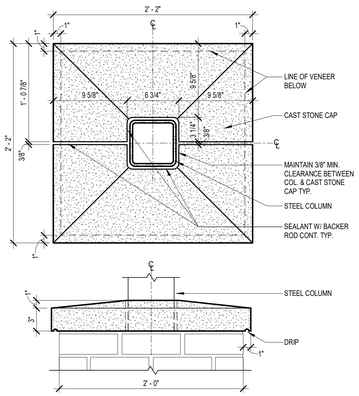
9 METAL PANEL DETAIL
1 1/2" = 1'-0"



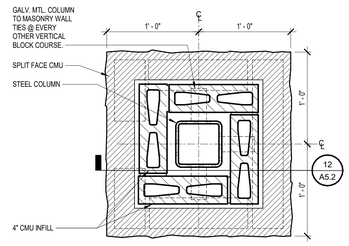
6 DETAIL
1 1/2" = 1'-0"



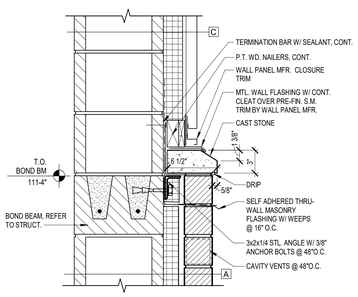
2 DETAIL
1 1/2" = 1'-0"



7 EXTERIOR COLUMN STONE CAP DETAIL
1 1/2" = 1'-0"



8 EXTERIOR COLUMN PLAN
1 1/2" = 1'-0"



3 DETAIL
1 1/2" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

WALL SECTIONS AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET
A5.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A5.2 WALL SECTIONS AND DETAILS.dwg
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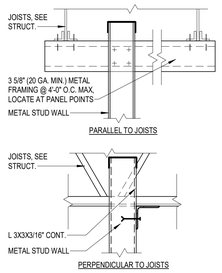
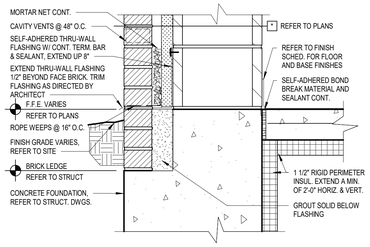
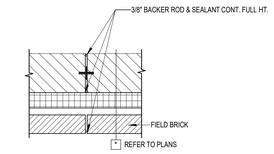


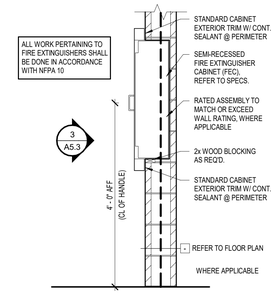
15 TYP. SOFFIT SUPPORT
1 1/2" = 1'-0"



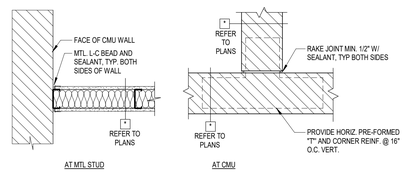
10 TYP. CMU FLASHING DETAIL
1 1/2" = 1'-0"



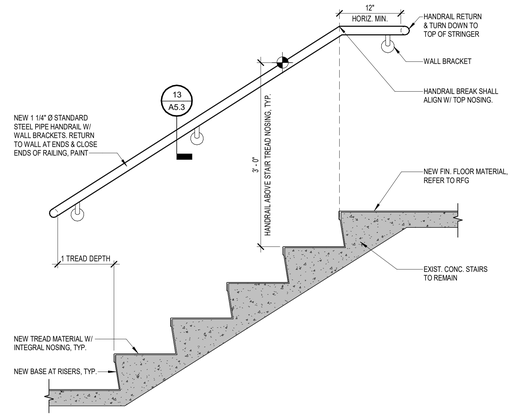
5 TYP. CONTROL JOINT PLAN DETAIL
1" = 1'-0"



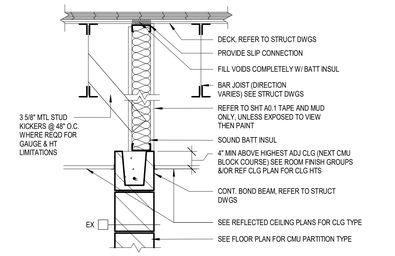
1 TYP. FEC SECTION AT CMU
3/4" = 1'-0"



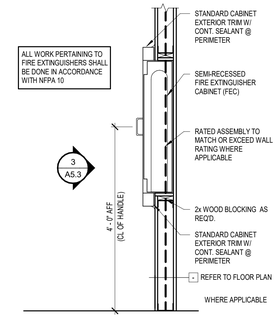
16 TYP INTERIOR PARTITION INTERSECTIONS
1" = 1'-0"



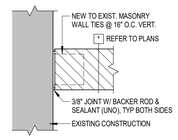
11 EXISTING STAIRS DETAIL
1" = 1'-0"



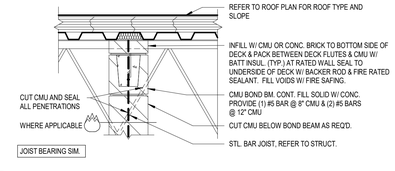
6 TYP NON-LOAD BEARING "EX" CMU PARTITION
1" = 1'-0"



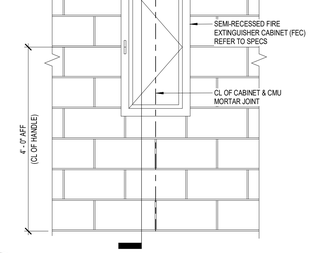
2 TYP. FEC SECTION AT STUD WALL
3/4" = 1'-0"



17 TYP INTERIOR PARTITION INTERSECTIONS
1" = 1'-0"



7 TYP. NON-LOAD BEARING "FH" CMU PARTITIONS
1" = 1'-0"

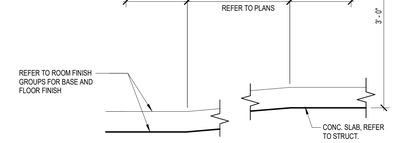


3 TYP. FEC ELEVATION
3/4" = 1'-0"

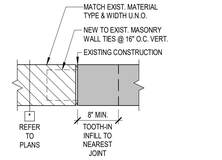
18 TYP INTERIOR PARTITION INTERSECTIONS
1" = 1'-0"

4 TYP. CMU BASE DETAIL
1 1/2" = 1'-0"

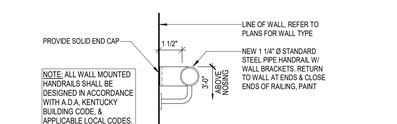
19 TYP INTERIOR PARTITION INTERSECTIONS
1" = 1'-0"



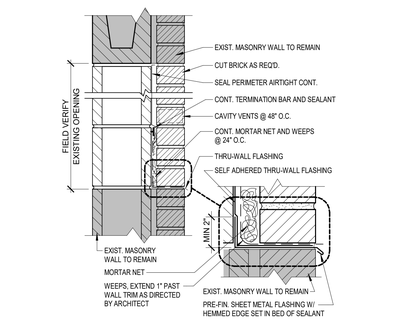
12 TYP. RAMP HANDRAIL
1" = 1'-0"



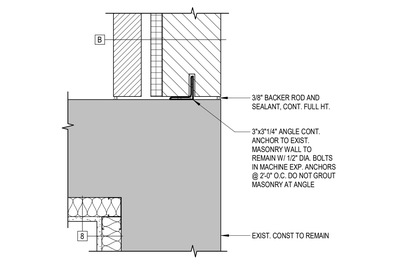
20 TYP. PLAN DETAIL
1" = 1'-0"



13 HANDRAIL DETAIL
3" = 1'-0"



14 LOUVER INFILL DETAIL
1 1/2" = 1'-0"



9 PLAN DETAIL
1 1/2" = 1'-0"

GENERAL COLUMN & WALL DETAIL NOTES

1. SEE STRUCTURAL AND ARCHITECTURAL FLOOR PLANS FOR COL. LINES AND DIMENSIONS NOT SPECIFICALLY REFERENCED ON THESE DETAILS.
2. FIRE RATED SEALANT IS REQUIRED AT ALL JOINTS IN RATED WALLS.
3. SAWCUT ALL MASONRY AT STRUCTURAL STEEL AS REQUIRED TO MAINTAIN A 3/8" CLEARANCE BETWEEN MASONRY AND STEEL.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

TYPICAL MISCELLANEOUS DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A5.3

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A5.3 TYPICAL MISCELLANEOUS DETAILS.dwg
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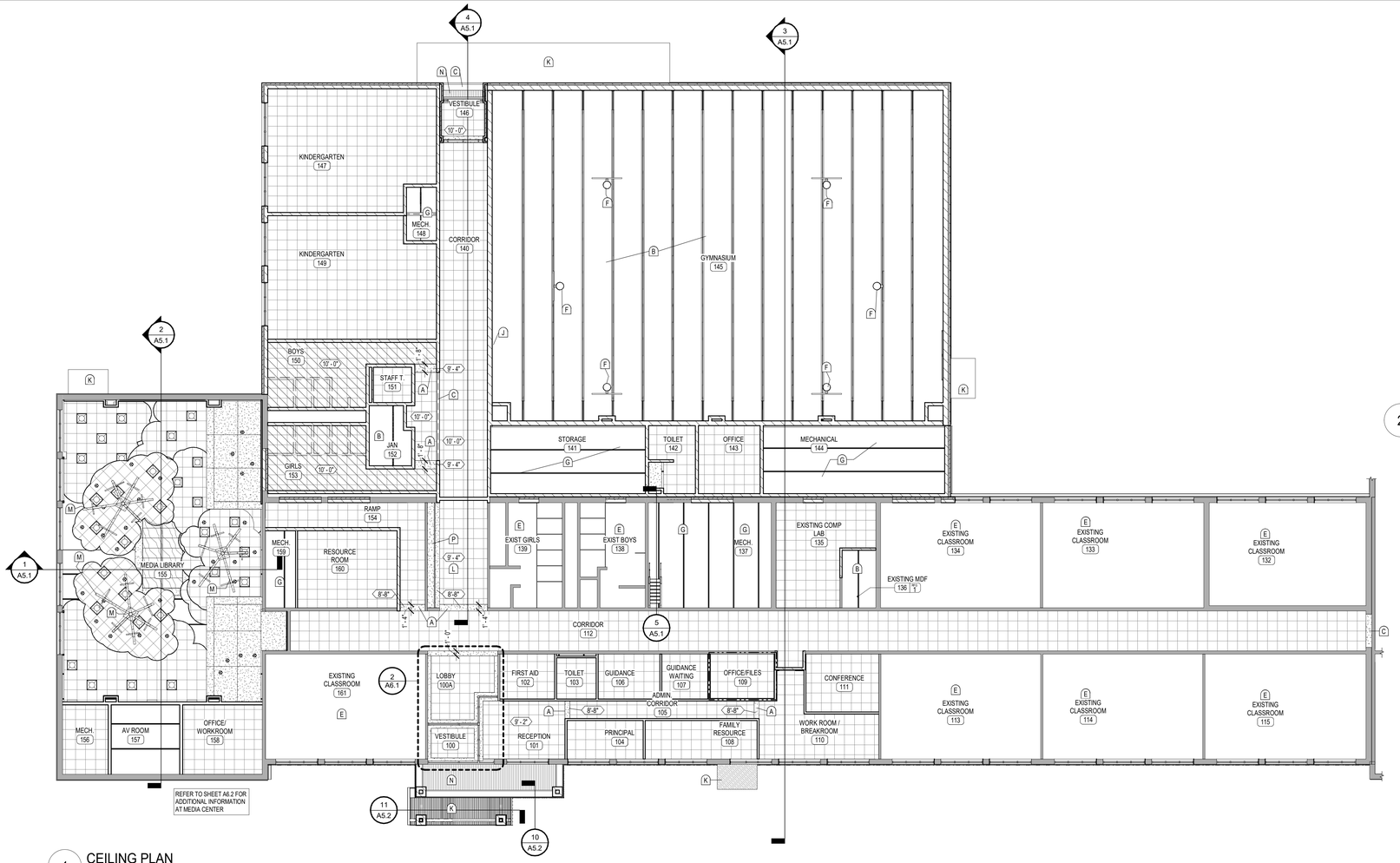
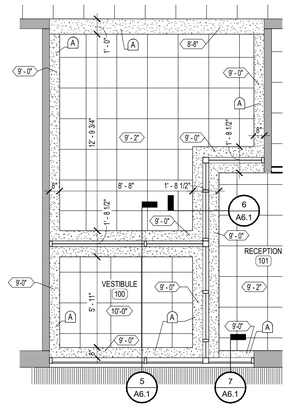
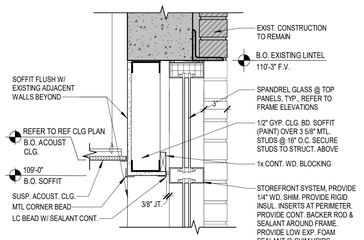


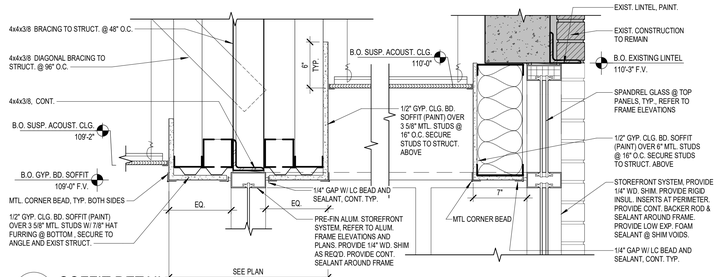
1 CEILING PLAN
3/32" = 1'-0"



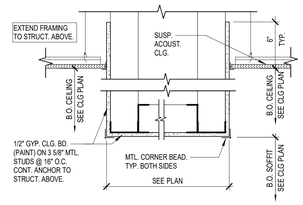
2 REFLECTED CEILING PLAN MAIN ENTRY
1/4" = 1'-0"



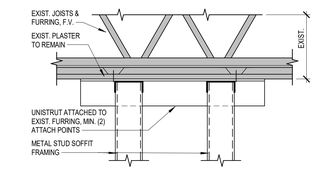
7 CEILING DETAIL @ SF TYP
1 1/2" = 1'-0"



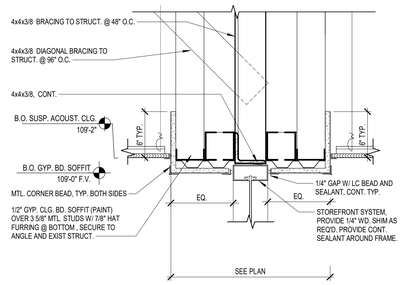
5 SOFFIT DETAIL
1 1/2" = 1'-0"



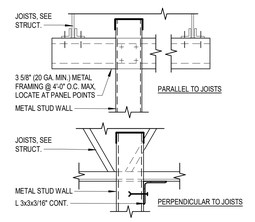
3 SOFFIT DETAIL- TYPICAL
1 1/2" = 1'-0"



8 DETAIL - SOFFIT SUPPORT
1 1/2" = 1'-0"



6 CEILING AT RECEPTIONIST
1 1/2" = 1'-0"



4 TYP DETAIL - SOFFIT SUPPORT
1 1/2" = 1'-0"

REFLECTED CEILING PLAN KEY NOTES

A. INTERIOR GYP. CEILING BD. SOFFIT/BULKHEAD, PAINT, REFER TO TYPICAL SOFFIT SUPPORT DETAIL 3/A6.1 U.N.O.

B. EXPOSED STRUCTURE AND DECK. PAINT ALL EXPOSED STRUCTURE, DECK, PIPES, CONDUIT, DUCTS, ETC. COLOR TO BE SELECTED BY ARCHITECT.

C. STL. LINTEL/BOND BEAM/CONC. BEAM, PAINT EXPOSED STL. LINTEL. HOT-DIP GALVANIZE ALL EXTERIOR LINTELS PRIOR TO PAINTING, PAINT.

D. WALKWAY COVER, REFER TO ROOF PLAN.

E. NEW CEILING SYSTEM, REFER TO MECH. FOR NEW CEILING GRID SYSTEM LAYOUT IN EXISTING AREA.

F. BASKETBALL GOALS.

G. EXPOSED STRUCTURE AND DECK, NO FINISH.

H. GYP. BD. CONTROL JOINT. CONTINUE UP VERTICAL FACE.

J. SCOREBOARD N.I.C., PROVIDE ELEC. ROUGH-IN, REFER TO ELEC. DWGS.

K. CANOPY, REFER TO ROOF PLAN

L. CEILING HEIGHT SHOWN ON PLAN IS PLUS OR MINUS, ADJUST TO CONCEAL BEAM AT EXISTING WALL OPENING.

M. PLY WOOD TREE. REFER TO DETAILS ON SHEET A3.2.

N. PRE-FIN. LINEAR MTL. CLG. SYSTEM W/ 3 1/4" WIDE PANS W/ PERIMETER MOLDING. (USG PARALINE II OR EQUAL)

P. NOT USED

Q. 8" RADIUSED CHANNEL EDGE TRIM, REFER TO DETAIL 7/A6.2.

GENERAL CEILING LEGEND

- 2'x2' SUSPENDED ACOUSTICAL CEILING (ACT-1 UNLESS NOTED OTHERWISE, REFER TO SPECS.)
- 2'x2' SUSPENDED VINYL CLAD ACOUSTICAL CEILING (ACT-2, REFER TO SPECS)
- CUSTOM PRINTED LIGHT PANELS W/ 2'x4' SUSPENDED CEILING GRID, REFER TO MEP.
- EXPOSED STRUCTURE. REFER TO KEYNOTES, UNO.
- GYP. BD. CEILING OR SOFFIT, PAINT.
- 9'-0" = CLG HT ABOVE FLOOR. REFER TO GENERAL NOTES IF NO HT. NOTED.

GENERAL CEILING NOTES

1. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR TYPE, SIZE AND OTHER REQUIREMENTS PERTAINING SPECIFICALLY TO THE REFLECTED CEILING PLANS.
2. ALL CEILINGS ARE AT 9'-0" A.F.F., UNLESS NOTED OTHERWISE.
3. REFER TO WALL PARTITION TYPES FOR DESCRIPTION OF WALLS EXTENDING (OR NOT) TO UNDERSIDE OF DECKING AND/OR STRUCTURE ABOVE.
4. INSTALL SPRINKLER HEADS IN THE CENTER OF CEILING PANELS.
5. INSTALL ALL SPRINKLER HEADS ON SWING ARM NIPPLES. SEE MECHANICAL DRAWINGS FOR MORE SPECIFIC REQUIREMENTS.
6. PAINT ALL ITEMS EXPOSED TO VIEW INCLUDING UNDERSIDE OF METAL DECK, BEAMS, BAR JOISTS, MISC. STRUCT. ITEMS, CONDUIT, & PIPING U.N.O.
7. CONTRACTOR TO SUBMIT FULL COORDINATION DRAWINGS FOR ALL CEILING ITEMS INCLUDING JOIST SPACING /LIGHTING, HVAC LAYOUT AND FIRE PROTECTION SYSTEMS.
8. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN ALL GYPSUM BOARD SOFFITS AT ALL HORIZONTAL / VERTICAL JOINTS, UNO.
9. REFER TO MECH. AND ELEC. DWGS. FOR NEW CEILING IN EXISTING SPACES NOT SHOWN ON ARCHITECTURAL DWGS.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE S. MITCHELL — NOT FOR CONSTRUCTION — LICENSED ARCHITECT

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

REFLECTED CEILING PLAN

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A6.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A6.1 REFLECTED CEILING PLAN.dwg
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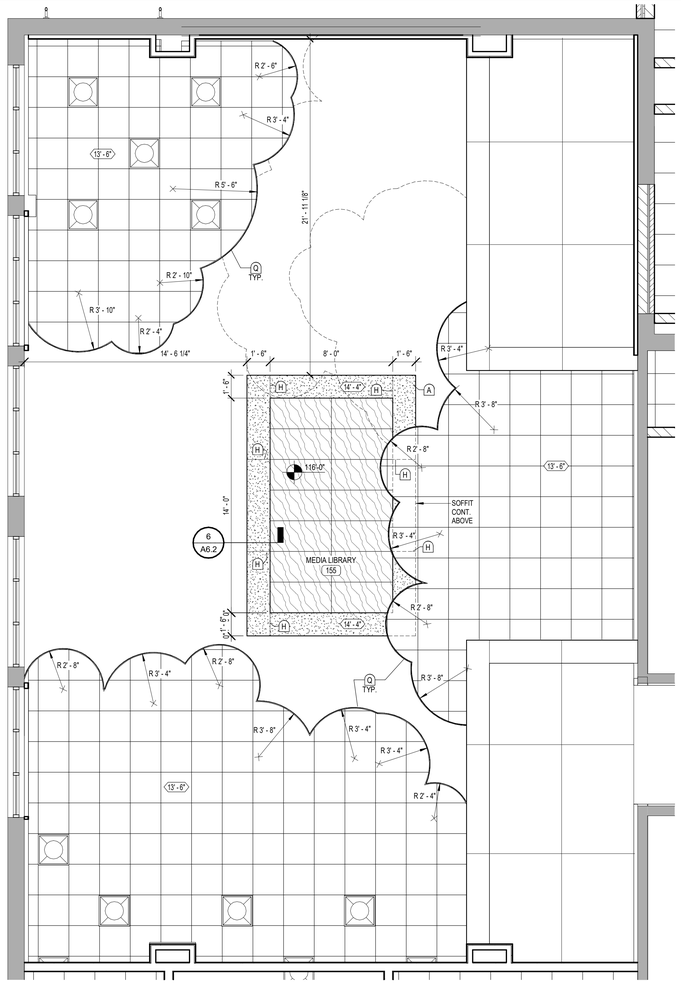
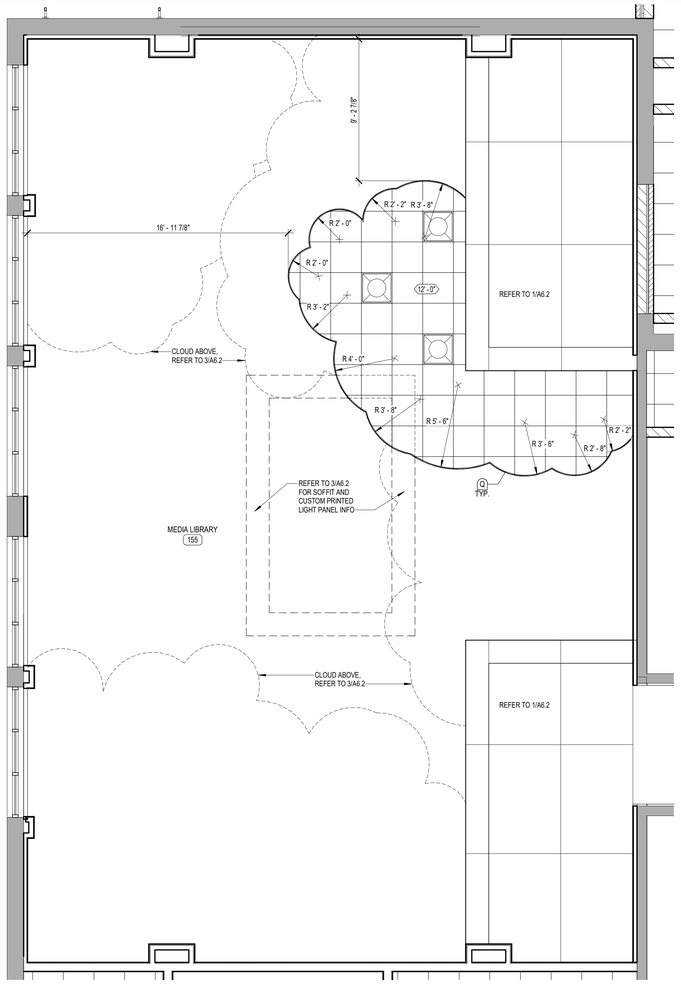
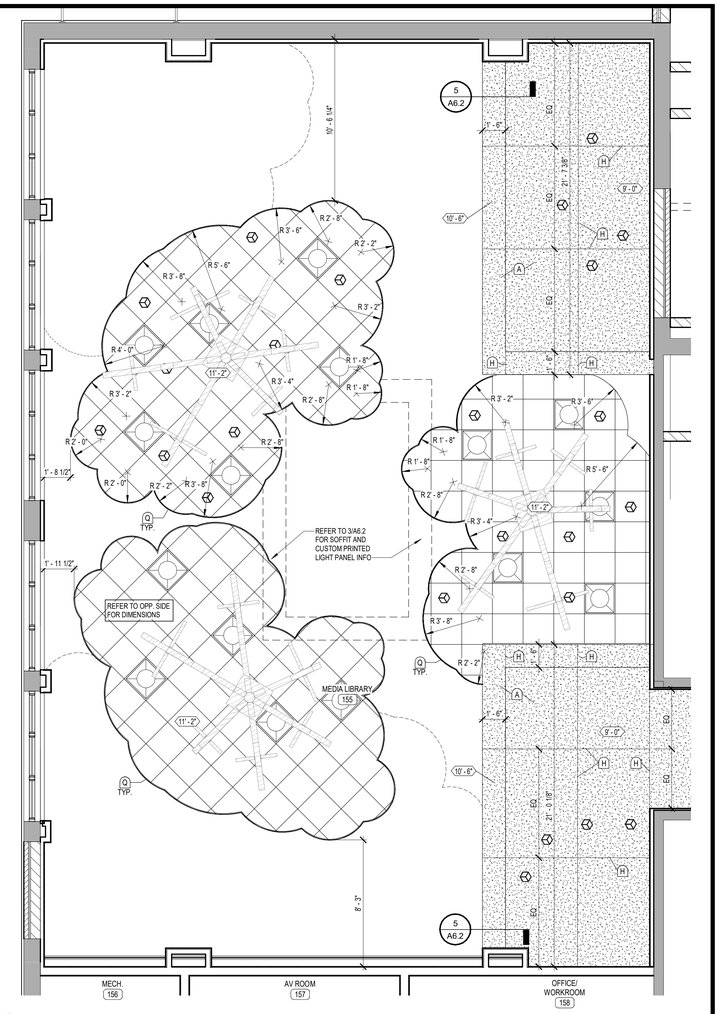


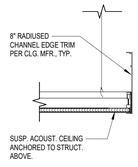
3 PARTIAL REFLECTED CEILING PLAN MEDIA CENTER
1/4" = 1'-0"



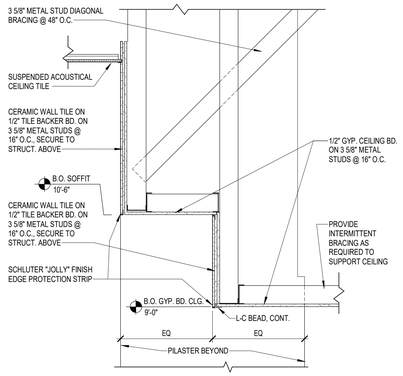
2 PARTIAL REFLECTED CEILING PLAN MEDIA CENTER
1/4" = 1'-0"



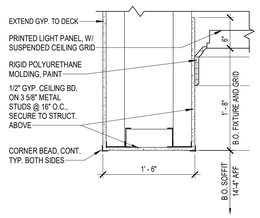
1 PARTIAL REFLECTED CEILING PLAN MEDIA CENTER
1/4" = 1'-0"



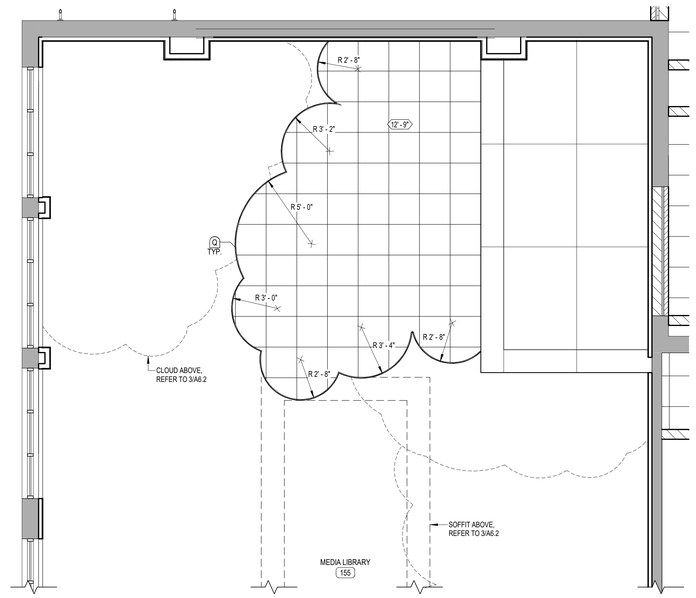
7 CHANEL EDGE DETAIL
1 1/2" = 1'-0"



5 CEILING DETAIL
1" = 1'-0"



6 CEILING DETAIL - SKYPANEL
1" = 1'-0"



4 PARTIAL REFLECTED CEILING PLAN MEDIA CENTER
1/4" = 1'-0"

REFLECTED CEILING PLAN KEY NOTES

A. INTERIOR GYP. CEILING BD. SOFFIT/BULKHEAD, PAINT, REFER TO TYPICAL SOFFIT SUPPORT DETAIL 3/A6.1 U.N.O.

B. EXPOSED STRUCTURE AND DECK. PAINT ALL EXPOSED STRUCTURE, DECK, PIPES, CONDUIT, DUCTS, ETC. COLOR TO BE SELECTED BY ARCHITECT.

C. STL. LINTEL/BOND BEAM/CONC. BEAM, PAINT EXPOSED STL. LINTEL. HOT-DIP GALVANIZE ALL EXTERIOR LINTELS PRIOR TO PAINTING, PAINT.

D. WALKWAY COVER. REFER TO ROOF PLAN.

E. NEW CEILING SYSTEM, REFER TO MECH. FOR NEW CEILING GRID SYSTEM LAYOUT IN EXISTING AREA.

F. BASKETBALL GOALS.

G. EXPOSED STRUCTURE AND DECK, NO FINISH.

H. GYP. BD. CONTROL JOINT. CONTINUE UP VERTICAL FACE.

J. SCOREBOARD N.I.C., PROVIDE ELEC. ROUGH-IN, REFER TO ELEC. DWGS.

K. CANOPY, REFER TO ROOF PLAN

L. CEILING HEIGHT SHOWN ON PLAN IS PLUS OR MINUS, ADJUST TO CONCEAL BEAM AT EXISTING WALL OPENING.

M. PLY WOOD TREE. REFER TO DETAILS ON SHEET A3.2.

N. PRE-FIN. LINEAR MTL. CLG. SYSTEM W/ 3 1/4" WIDE PANS W/ PERIMETER MOLDING. (USG PARALINE II OR EQUAL)

P. NOT USED

Q. 8" RADIUSED CHANNEL EDGE TRIM. REFER TO DETAIL 7/A6.2.

GENERAL CEILING LEGEND

- 2'x2' SUSPENDED ACOUSTICAL CEILING (ACT-1 UNLESS NOTED OTHERWISE, REFER TO SPECS.)
- 2'x2' SUSPENDED VINYL CLAD ACOUSTICAL CEILING (ACT-2, REFER TO SPECS)
- CUSTOM PRINTED LIGHT PANELS W/ 2'x4' SUSPENDED CEILING GRID, REFER TO MEP.
- EXPOSED STRUCTURE. REFER TO KEYNOTES, UNO.
- GYP. BD. CEILING OR SOFFIT, PAINT.
- (9' - 0") = CLG HT ABOVE FLOOR. REFER TO GENERAL NOTES IF NO HT. NOTED.

GENERAL CEILING NOTES

1. REFER TO MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR TYPE, SIZE AND OTHER REQUIREMENTS PERTAINING SPECIFICALLY TO THE REFLECTED CEILING PLANS.
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3. REFER TO WALL PARTITION TYPES FOR DESCRIPTION OF WALLS EXTENDING (OR NOT) TO UNDERSIDE OF DECKING AND/OR STRUCTURE ABOVE.
4. INSTALL SPRINKLER HEADS IN THE CENTER OF CEILING PANELS.
5. INSTALL ALL SPRINKLER HEADS ON SWING ARM NIPPLES. SEE MECHANICAL DRAWINGS FOR MORE SPECIFIC REQUIREMENTS.
6. PAINT ALL ITEMS EXPOSED TO VIEW INCLUDING UNDERSIDE OF METAL DECK, BEAMS, BAR JOISTS, MISC. STRUCT. ITEMS, CONDUIT, & PIPING U.N.O.
7. CONTRACTOR TO SUBMIT FULL COORDINATION DRAWINGS FOR ALL CEILING ITEMS INCLUDING JOIST SPACING,LIGHTING, HVAC LAYOUT AND FIRE PROTECTION SYSTEMS.
8. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN ALL GYPSUM BOARD SOFFITS AT ALL HORIZONTAL / VERTICAL JOINTS, UNO.
9. REFER TO MECH. AND ELEC. DWGS. FOR NEW CEILING IN EXISTING SPACES NOT SHOWN ON ARCHITECTURAL DWGS.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE M. SATTERFIELD NO. 32653 REGISTERED ARCHITECT COMMONWEALTH OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

REFLECTED CEILING PLANS AND DETAILS MEDIA CENTER

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A6.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A6.2 REFLECTED CEILING PLANS AND DETAILS MEDIA CENTER
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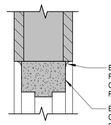
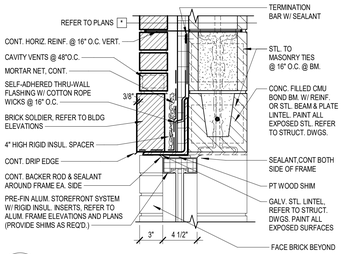
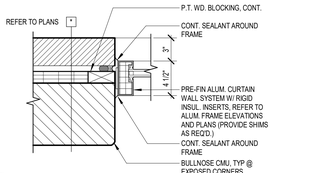


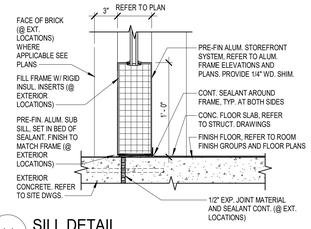
8 TYP. EXIST. H.M. HEAD @ CMU, SILL SIM.
1 1/2" = 1'-0"



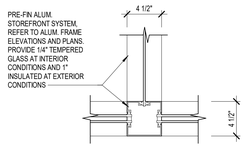
9 HEAD DETAIL
1 1/2" = 1'-0"



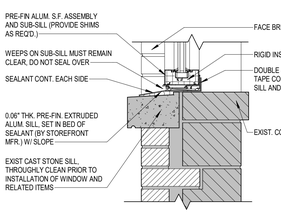
10 JAMB DETAIL
1 1/2" = 1'-0"



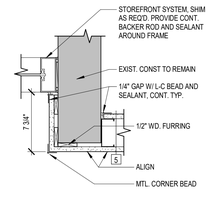
11 SILL DETAIL
1 1/2" = 1'-0"



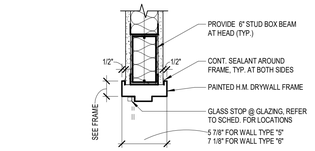
12 JAMB DETAIL
1 1/2" = 1'-0"



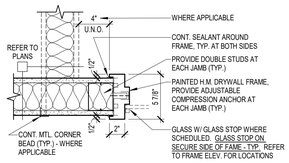
13 WINDOW SILL EXIST
1 1/2" = 1'-0"



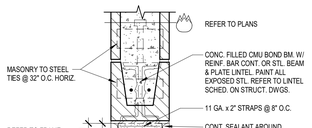
14 ADMIN S.F. CORNER
1 1/2" = 1'-0"



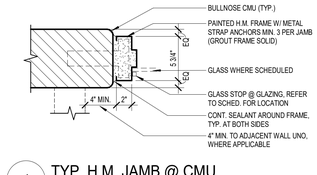
1 TYP. H.M. HEAD @ MTL. STUD
1 1/2" = 1'-0"



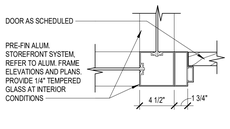
2 TYP. H.M. JAMB @ MTL. STUD
1 1/2" = 1'-0"



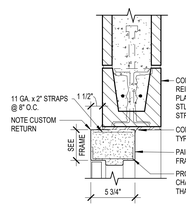
3 TYP. H.M. HEAD @ CMU
1 1/2" = 1'-0"



4 TYP. H.M. JAMB @ CMU
1 1/2" = 1'-0"

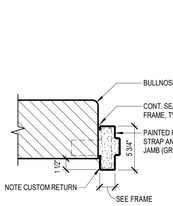


5 JAMB DETAIL
1 1/2" = 1'-0"

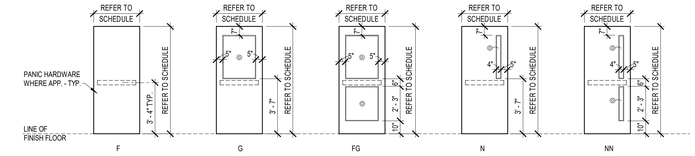


6 TYP. H.M. HEAD @ CMU 180° SWING
1 1/2" = 1'-0"

14 ADMIN S.F. CORNER
1 1/2" = 1'-0"



7 TYP. H.M. JAMB @ CMU 180° SWING
1 1/2" = 1'-0"

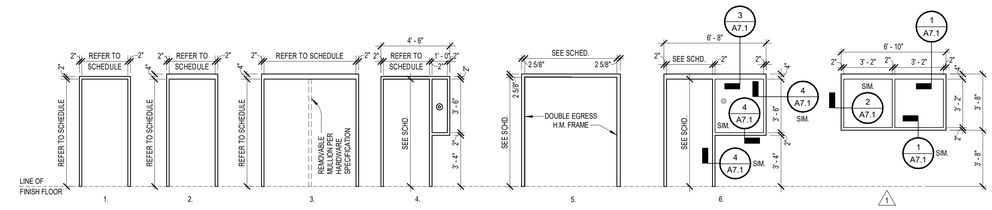


DOOR TYPES

1/4" = 1'-0" ⊛ DENOTES TEMPERED GLASS
ALL EXTERIOR GLAZING SHALL BE 1" INSULATED U.N.O.

GLAZING NOTE: DIMENSIONS TO GLAZING EDGE NOTED ARE TO OUTERMOST EDGE AND DO NOT INCLUDE GLAZING TRIM

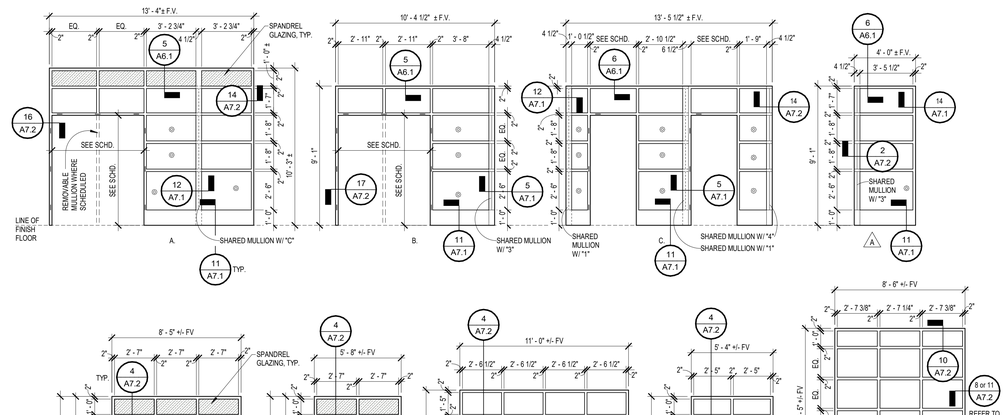
DOOR DIMENSIONS: DIMENSIONS NOTED ARE MINIMUM SIZES TO FACILITATE AND/OR CONCEAL PROJECT SPECIFIC HARDWARE, MFR. STANDARD DIMENSIONS WHICH NOMINALLY EXCEED THE MINIMUMS ARE ACCEPTABLE SUBJECT TO ARCHITECT REVIEW.

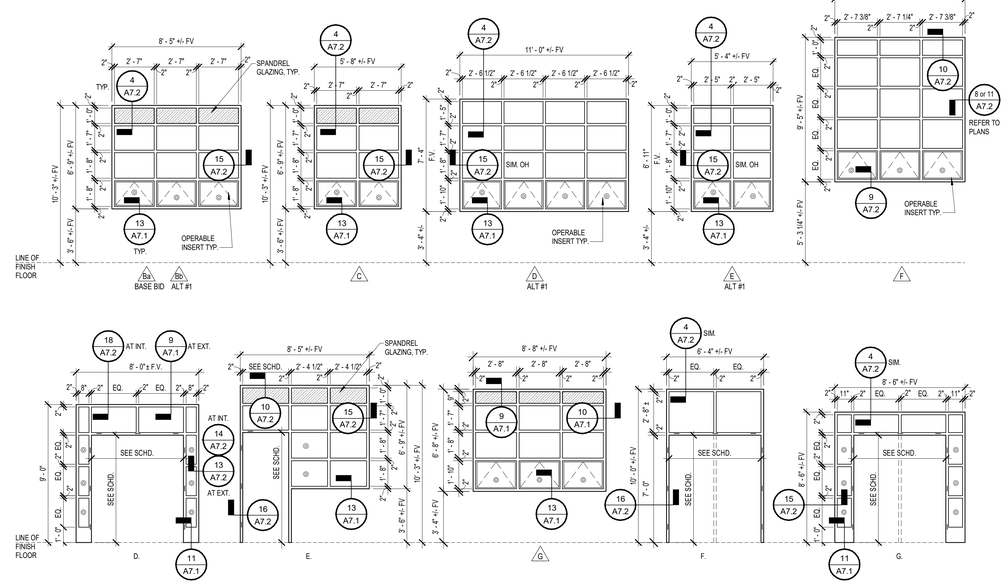


HOLLOW METAL FRAME TYPES

1/4" = 1'-0" ⊛ DENOTES TEMPERED GLASS

GLAZING NOTE: DIMENSIONS TO GLAZING EDGE NOTED ARE TO OUTERMOST EDGE AND DO NOT INCLUDE GLAZING TRIM





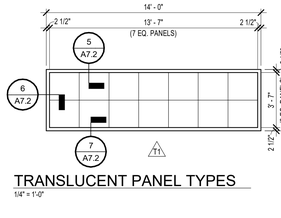
ALUMINUM FRAME TYPES

1/4" = 1'-0" ⊛ DENOTES TEMPERED GLASS
ALL EXTERIOR GLAZING SHALL BE 1" INSULATED U.N.O.
DASHED LINES INDICATE INTERNAL REINFORCING LOCATIONS FOR ALUMINUM FRAMES

GLAZING NOTE: DIMENSIONS TO GLAZING EDGE NOTED ARE TO OUTERMOST EDGE AND DO NOT INCLUDE GLAZING TRIM

PROVIDE "FRSC" FIRE RATED SAFETY GLAZING AT RATED DOOR ASSEMBLIES. ARE MINIMUM SIZES TO FACILITATE AND/OR CONCEAL PROJECT SPECIFIC HARDWARE, MFR. STANDARD DIMENSIONS WHICH NOMINALLY EXCEED THE MINIMUMS ARE ACCEPTABLE SUBJECT TO ARCHITECT REVIEW.

HATCH INDICATES SPANDREL GLAZING TYPICAL



TRANSLUCENT PANEL TYPES

1/4" = 1'-0"

DOOR AND FRAME NOTES:

GENERAL NOTES:
1. REFER TO TYPICAL HEAD AND JAMB DETAILS ON SHEETS A7.1 AND A7.2.
2. INSTALL 2x BLOCKING BETWEEN STUDS FOR WALL MOUNTED DOOR STOPS IN STUD PARTITIONS.
3. WHERE NEW DOOR INSTALLED IN EXIST. OPG.- FIELD VERIFY SIZE OF EXIST M.O. PRIOR TO DOOR FABRICATION. NEW EGRESS DOOR LEAF MUST BE 36" WIDE MIN. - MODIFY OPENING AS REQ'D TO ACHIEVE MINIMUM WIDTH.
4. ALL EXTERIOR DOORS AND FRAMES SHALL BE INSULATED.
5. REFER TO SHEET A8.1 FOR THRESHOLD DETAILS.

HARDWARE NOTES:
1. PROVIDE AND INSTALL ALL HARDWARE IN ACCORDANCE WITH ANSI A117.1 - 2009.
2. REFER TO HARDWARE SPECIFICATION FOR CLOSER LOCATIONS AND SPECIFIC HARDWARE REQUIREMENTS.

DOOR NOTES:
1. UNDERCUT AT NON-RATED S.C. WOOD DOORS 1/2" FROM BOTTOM OF DOOR TO SCHEDULED FLOOR FINISH.
2. UNDERCUT AT EXT. DOORS 1/8" MAX. FROM BOTTOM OF DOOR TO T.O. THRESHOLD, WEATHER STRIP MUST CLOSE TIGHTLY AGAINST THRESHOLD.
3. ALL EXTERIOR HOLLOW METAL DOORS BE GALVANIZED AND HAVE FLUSH CLOSURE CAPS16 GA. WELD CONT. TOP AND BOTTOM.
4. PROVIDE THRESHOLDS AS REQUIRED AT DOORS. SEE SHEET A8.1 FOR TYPICAL THRESHOLD DETAILS AND FLOOR FINISHES.

HOLLOW METAL FRAME NOTES:
1. PROVIDE REINFORCING 12 GA. CHANNEL IN FRAME HEAD AT ALL H.M. FRAMES WHERE TOTAL FRAME WIDTH IS GREATER THAN 4'-0".
2. PROVIDE 11 - GA x 2" WIDE STRAPS AT 8" O.C. IN H.M. FRAME HEADS GREATER THAN 2" IN HEIGHT, TYPICAL.
3. LINTEL BEAM LENGTH SHALL BE M.O. PLUS 16" LONG (MIN 8" BEARING AT EACH END UNLESS NOTED OTHERWISE). LINTEL PLATE LENGTH SHALL BE M.O. LESS 1/4" LONG (1/8" AT EACH END MAX.). REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
4. WHERE GLAZING IS SHOWN, THE FRAME FABRICATOR SHALL PRE-DRILL STOPS AND FRAME TO RECEIVE MOUNTING SCREWS. VERIFY LOCATIONS AND DEPTH OF GLAZING MATERIAL,EQUAL SPACE SCREWS.
5. UNLESS NOTED OTHERWISE, THE HINGE SIDE OF H.M. FRAME AT GYP. AND MTL. STUD WALLS SHALL BE INSTALLED 4" FROM ADJ. WALLS.
6. ALL EXTERIOR HOLLOW METAL FRAMES SHALL BE GALVANIZED, 14 GA.

GLASS AND GLAZING NOTES:
1. PROVIDE FULLY TEMPERED (FT) GLASS WHERE INDICATED ON SCHEDULE AND/OR SHOWN ON DOOR AND FRAME TYPES, OR AS REQ'D BY CODE.
2. PROVIDE FIRE RESISTANT RATED GLAZING (FRRG) WHERE INDICATED ON SCHEDULE OR AS REQ'D BY CODE.
3. GLASS STOPS ON SECURE SIDE OF FRAME.

EXTERIOR DOOR SCHEDULE

NO.	NO. LEAVES	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FIRE RATING	CLOSER DEG.	REFER TO A9.1 FOR DOOR A100 REMARKS
E100	2	3' - 0"	7' - 0"	ALUM	FG	1" INSUL	ALUM	A	1" INSUL		105	3,4,5,7,12,14,15
E108	1	3' - 0"	7' - 2"	ALUM	FG	1" INSUL	ALUM	E	1" INSUL	-	105	4,5,15
E117	1	3' - 0"	7' - 0"	HM	F	-	EXIST	-	-	-	105	7,13,15,17
E125	1	3' - 0"	7' - 0"	HM	F	-	EXIST	-	-	-	90	1,2,7,13,15,17
E127A	1	3' - 0"	7' - 0"	HM	F	-	EXIST	-	-	-	90	1,2,6,7,13,14,15,17
E127B	2	3' - 0"	7' - 0"	ALUM	FG	1" INSUL	ALUM	F	1" INSUL	-	105	3,4,5,6,7,15
E131	2	3' - 0"	7' - 0"	ALUM	FG	1" INSUL	ALUM	G	1" INSUL	-	105	3,4,5,6,7,15
E144	2	3' - 0"	7' - 0"	HM	F	-	HM	3	-	-	105	1,2,3,6,7
E145	2	3' - 0"	7' - 0"	HM	N	1" INSUL	HM	3	-	-	105	1,2,3,6,7
E146	2	3' - 0"	7' - 0"	ALUM	FG	1" INSUL	ALUM	D	1" INSUL	-	105	3,4,5,7,14
E155	1	3' - 0"	7' - 0"	HM	N	1" INSUL	HM	2	-	-	105	1,2,6,7

INTERIOR DOOR SCHEDULE

NO.	NO. LEAVES	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FIRE RATING	CLOSER DEG.	REMARKS
100	2	3' - 0"	7' - 2"	SCWD	FG	1/4"	ALUM	B	1/4"		105	3,4,5,7,14,18
101A	1	3' - 0"	7' - 2"	SCWD	FG	1/4"	ALUM	C	1/4"	-	105	4,5,12,14,18
101B	1	3' - 0"	7' - 2"	SCWD	FG	1/4"	ALUM	C	1/4"	-	105	4,5,12
102A	1	3' - 0"	7' - 0"	SCWD	G	1/4"	HM	4	1/4"	-	-	
102B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	-	90	
103A	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	-	-	
103B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	-	-	
104	1	3' - 0"	7' - 0"	SCWD	N	-	HM	1	-	-	-	
106A	1	3' - 0"	7' - 0"	SCWD	N	-	HM	1	-	-	-	
106B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	-	-	
107	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	-	90	
108	1	3' - 0"	7' - 0"	SCWD	N	-	HM	1	-	-	90	
109	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1	-	90	90	
110	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-	-	90	
111	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	1	-		90	
112A	1	2' - 0"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
113	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-	-		180	13,15,17
114	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-	-		180	13,15,17
115	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-	-		180	13,15,17
116	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-	-		180	13,15,17
117	1	3' - 6"	7' - 0"	SCWD	F	-	HM	2	-		105	
118	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-	-		-	13,15,17
119	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-	-		-	13,15,17
120	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-	-		180	13,15,17
121	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-	-		180	13,15,17
122	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-	-		-	13,15,17
123	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
124A	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			-	13,15,17
125	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			-	13,15,17
125A	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			-	13,15,17
126	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			90	13,15,17
127	2	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			90	13,15,17
127B	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			180	10,13,15,17
127C	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			180	10,13,15,17
128	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	13,15,17
129A	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	13,15,17
129B	1	3' - 0"	7' - 0"	SCWD	F		EXIST	-			-	13,15,17
131	2	3' - 8"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	15,17
132	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	13,15,17
133	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	13,15,17
134	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	13,15,17
135A	1	3' - 0"	7' - 0"	SCWD	N	1/4"	EXIST	-			180	13,15,17
135B	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
137	2	3' - 0"	7' - 0"	SCWD	F	-	HM	3			105	9
138A	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
138B	1	2' - 8"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
139A	1	3' - 0"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
139B	1	2' - 4"	7' - 0"	SCWD	F	-	EXIST	-			-	13,15,17
140	2	3' - 8"	7' - 0"	SCWD	N	1/4"	HM	5			100	15,17
141A	1	3' - 8"	7' - 0"	SCWD	F	-	HM	2			-	
141B	2	3' - 0"	7' - 0"	SCWD	F	-	HM	3			105	9
142	1	3' - 0"	7' - 0"	SCWD	F	-	HM	2			-	
143	1	3' - 0"	7' - 0"	SCWD	G	1/4"	HM	6			-	
144	1	3' - 0"	7' - 0"	SCWD	F	-	HM	2			-	7
145A	2	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	3			180	3, 7
145B	2	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	3			180	3, 7
146	2	3' - 0"	7' - 0"	SCWD	FG	1/4"	ALUM	D			105	3,4,5,7
147	1	3' - 0"	7' - 0"	SCWD	NN	1/4"	HM	2			-	
148	1	3' - 0"	7' - 0"	SCWD	F	-	HM	2			-	
149	1	3' - 0"	7' - 0"	SCWD	NN	1/4"	HM	2			-	
151	1	3' - 0"	7' - 0"	SCWD	F	-	HM	2			-	
152A	1	2' - 0"	7' - 0"	HM	F	-	HM	2			-	
152B	1	3' - 0"	7' - 0"	SCWD	F	-	HM	2			90	
155A	1	3' - 0"	7' - 0"	SCWD	FG	1/4"	HM	2			90	
155B	2	3' - 0"	7' - 0"	SCWD	FG	1/4"	HM	EXIST			90	7,13,15,17
156	1	3' - 0"	7' - 0"	SCWD	F	-	HM	1			90	
158A	1	3' - 0"	7' - 0"	SCWD	G	1/4"	HM	1			90	
158B	1	3' - 0"	7' - 0"	SCWD	G	1/4"	HM	1			90	
159	1	3' - 0"	7' - 0"	SCWD	F	-	HM	2			90	
160	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	2			180	
161	1	3' - 0"	7' - 0"	SCWD	N	1/4"	HM	2			90	

TOILET DOOR SCHEDULE

NO.	NO. LEAVES	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	FRAME TYPE	FRAME GLAZING	FIRE RATING	CLOSER DEG.	REMARKS
T1	1	3' - 0"	4' - 2"	HM	HM	-	HM	T7	-	-	-	REFER TO A2.2
T2	1	2' - 10"	4' - 2"	HM	HM	-	HM	T7	-	-	-	REFER TO A2.2

REMARKS

1. GALVANIZED DOOR & FRAME.
2. PROVIDE INSULATED DOOR & FRAME.
3. REMOVABLE MULLION.
4. PROVIDE STL. REINF. PLATES WITHIN ALUM. FRAMES FOR ANCHORAGE OF ALL HARDWARE.
5. PROVIDE MFR. STD. DETAILS AT DOORS & FRAME. SEE NOTED DTL. FOR CONDITIONS AT FRAME & ADJ. MATERIAL.
6. EXIT ONLY.
7. PANIC DEVICE.
8. PROVIDE SOUND SEALS AT HEAD & JAMB WITH SOUND SWEEP.
9. FLUSH BOLTS ON INACTIVE LEAVES.
10. MANUAL HOLD OPEN DEVICES.
11. PROVIDE SPRING HINGES.
12. FUTURE ELECT. HARDWARE. PROVIDE HOLE IN FRAME & BLANK CONDUIT AS REQUIRED FOR ELECTRICAL ROUGH-IN REQUIREMENTS. REFER TO HARDWARE SPECS. & ELECTRICAL DWGS.
13. NEW DOOR(S) IN EXSISTING FRAME. MODIFY/PATCH FRAME FOR NEW FINISHES.
14. COORDINATE POWER / CARD READER.
15. EXISTING OPENING F.V.
16. HOLD OPEN OPTION ON CLOSER.
17. PAINT EXISTING FRAME.
18. WIRE ELECT. DOOR HARDWARE TO RELEASE BUTTON AT DESK.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE S. SATFIELD NO. 32403 LICENSED ARCHITECT

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

DOOR SCHEDULE AND DOOR AND FRAME ELEVATIONS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A7.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY
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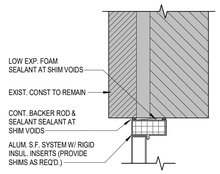
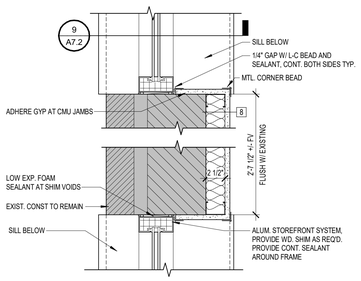
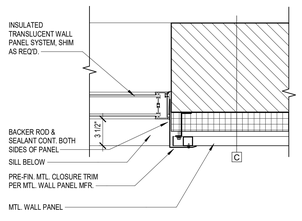


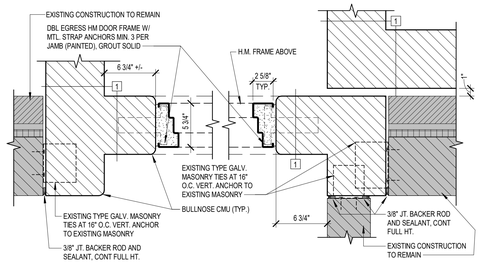
16 JAMB DETAIL
1 1/2" = 1'-0"



11 JAMB DETAIL
1 1/2" = 1'-0"



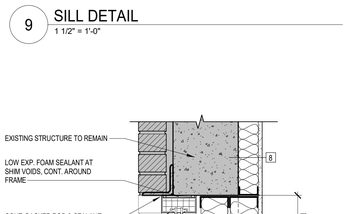
6 TRANSLUCENT PANEL JAMB
1 1/2" = 1'-0"



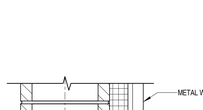
1 H.M. JAMB DOUBLE EGRESS
1 1/2" = 1'-0"

17 JAMB DETAIL
1 1/2" = 1'-0"

12 H.M. JAMB DETAIL
1 1/2" = 1'-0"



7 TRANSLUCENT PANEL SILL
1 1/2" = 1'-0"



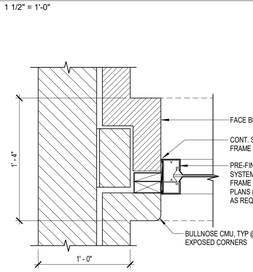
2 JAMB DETAIL
1 1/2" = 1'-0"

18 HEAD DETAIL
1 1/2" = 1'-0"

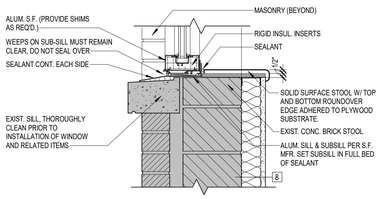
13 PLAN DETAIL
1 1/2" = 1'-0"

8 JAMB DETAIL
1 1/2" = 1'-0"

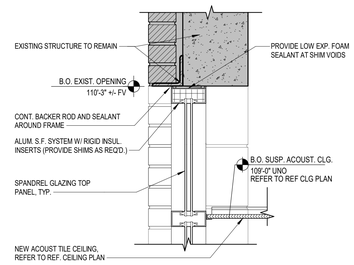
3 JAMB DETAIL
1 1/2" = 1'-0"



14 PLAN DETAIL
1 1/2" = 1'-0"



9 SILL DETAIL
1 1/2" = 1'-0"



4 HEAD DETAIL
1 1/2" = 1'-0"

15 JAMB DETAIL
1 1/2" = 1'-0"

10 HEAD DETAIL
1 1/2" = 1'-0"

5 TRANSLUCENT PANEL HEAD
1 1/2" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE S. BARNHART NO. 25263 LICENSED ARCHITECT COMMONWEALTH OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

DOOR AND WINDOW DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A7.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A7.2 DOOR AND WINDOW DETAILS.dwg
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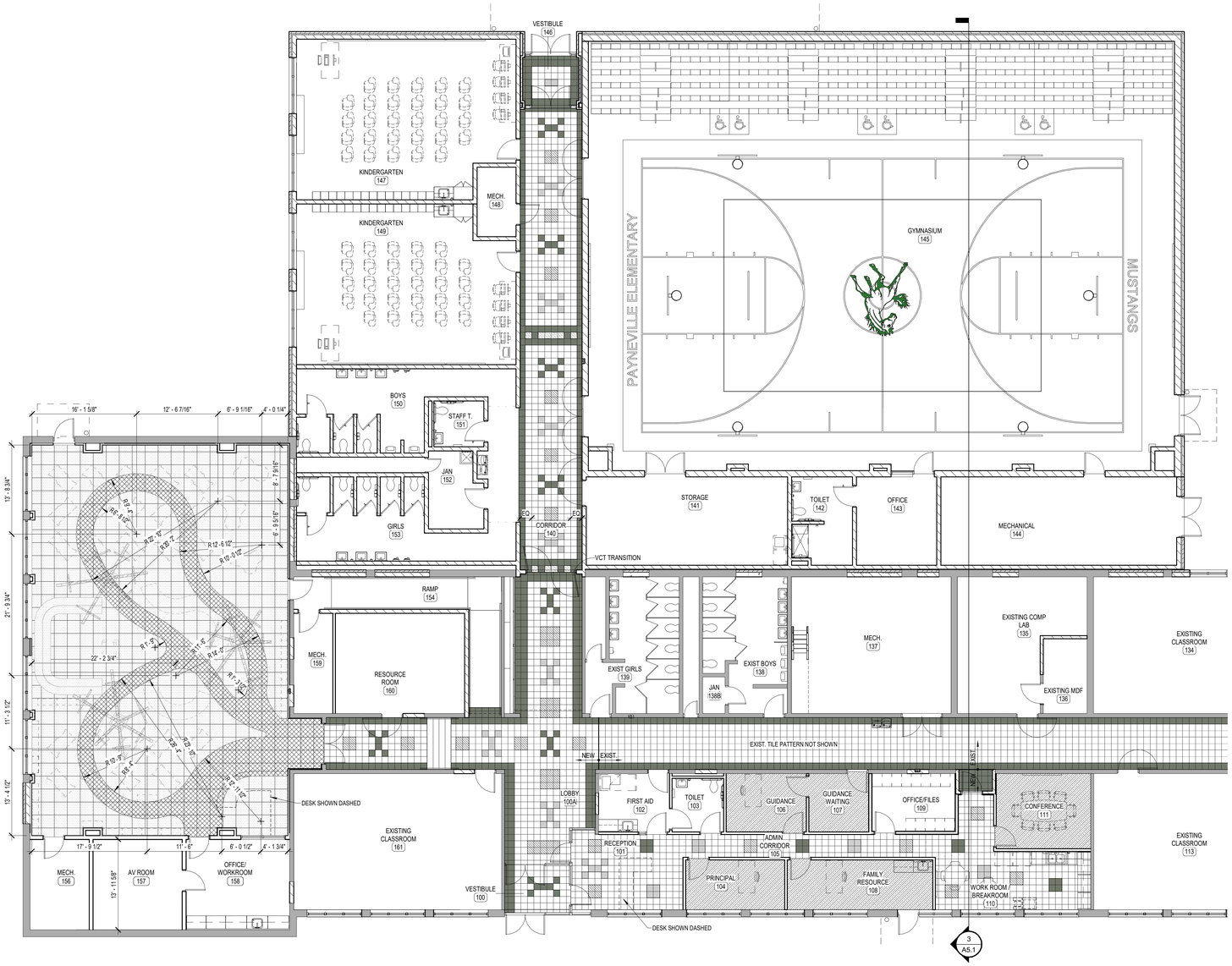
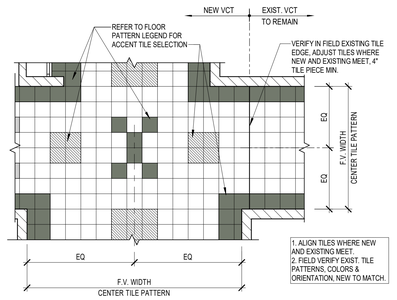
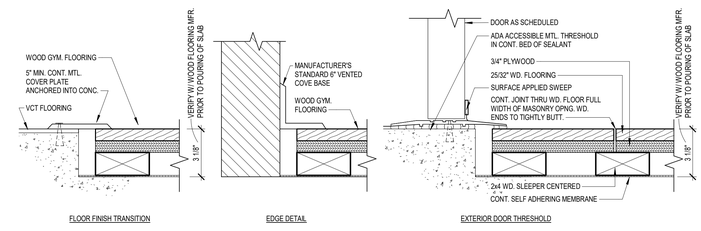


1 FLOOR PATTERN PLAN - BASE BID
1/8" = 1'-0"

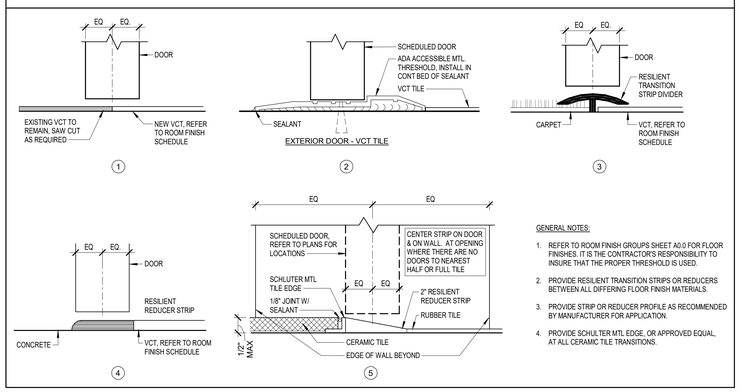


3 FLOOR TILE LAYOUT DETAIL
1/4" = 1'-0"



2 TYP. GYM FLOOR TRANSITION DETAILS
3" = 1'-0"

TYPICAL THRESHOLD CONDITIONS



GENERAL NOTES:

1. REFER TO ROOM FINISH GROUPS SHEET A0.0 FOR FLOOR FINISHES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE PROPER THRESHOLD IS USED.
2. PROVIDE RESILIENT TRANSITION STRIPS OR REDUCERS BETWEEN ALL DIFFERING FLOOR FINISH MATERIALS.
3. PROVIDE STRIP OR REDUCER PROFILE AS RECOMMENDED BY MANUFACTURER FOR APPLICATION.
4. PROVIDE SCHLUTER MTL EDGE, OR APPROVED EQUAL, AT ALL CERAMIC TILE TRANSITIONS.

FLOOR PATTERN GENERAL NOTES

1. FLOOR PATTERN INDICATES FLOOR FINISHES ONLY WHERE MULTIPLE COLORS AND/OR PATTERNS ARE REQUIRED. REFER TO ROOM FINISH GROUPS, SHEET A0.0, FOR FLOOR FINISH LOCATIONS AND THOSE NOT INDICATED.
2. TILE PATTERNS TO BE CENTERED ON CORRIDORS.
3. EXTEND TILES AT DOOR OPENINGS AND TERMINATE CENTERED UNDER DOOR, PROVIDE TRANSITION STRIPS AS REQUIRED BETWEEN NEW AND EXISTING FINISHES.
4. WHERE TILE PATTERN SHIFTS FROM TILE CENTERED TO TILE JOINT CENTERED, CENTER TRANSITION ON DOOR OPENING.
5. AT MEDIA CENTER, TRANSITION FROM ONE CURVE TO AN ADJACENT CURVE TO BE SMOOTH AND GRADUAL, DIMENSIONS ARE +/-.
6. AT MEDIA CENTER, CARPET TILE LAYOUT TO BE DONE TO MINIMIZE SMALL CARPET TILE PIECES.

FLOOR PATTERN LEGEND

- VCT FIELD COLOR
- VCT ACCENT COLOR 1
- VCT ACCENT COLOR 2
- VCT ACCENT COLOR 3
- VCT ACCENT COLOR 4
- CARPET FIELD COLOR MEDIA CENTER
- CARPET ACCENT COLOR MEDIA CENTER
- CARPET FIELD COLOR ADMINISTRATION
- REFER TO ROOM FINISH GROUP

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KYLE M. SATTERFIELD NO. 32263 LICENSED ARCHITECT COMMONWEALTH OF KENTUCKY

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FLOOR PATTERN PLAN BASE BID AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM, DF
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A8.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A8.1 FLOOR PATTERN PLAN BASE BID AND DETAILS
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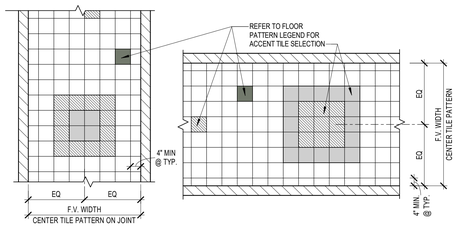
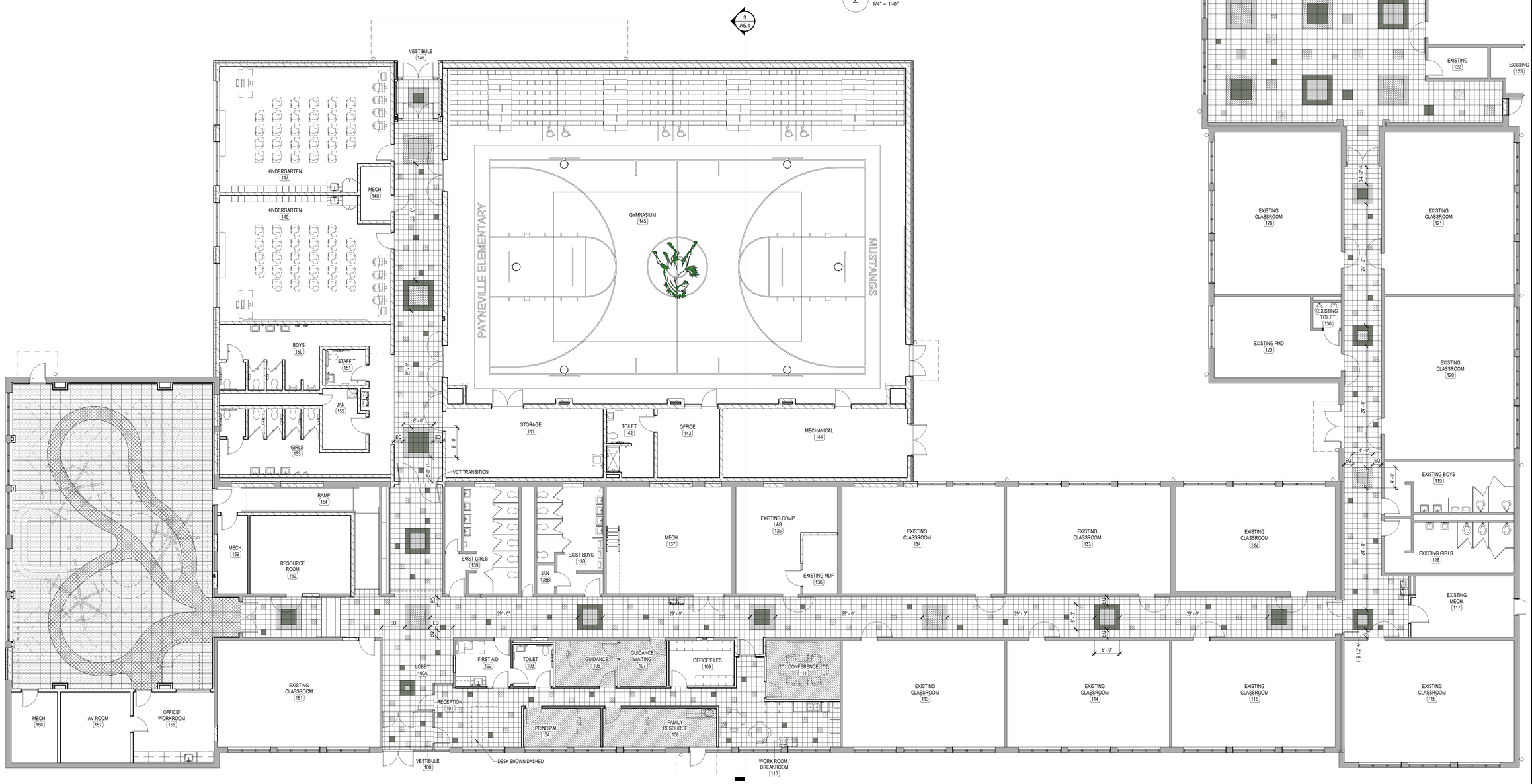


2 FLOOR TILE LAYOUT DETAIL
1/4" = 1'-0"



1 FLOOR PATTERN PLAN - ALTERNATES #4 & #5
1/8" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KY STATE REG. NO. 32563 — JAMES D. SMITH — LICENSED ARCHITECT

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FLOOR PATTERN PLAN
ALTERNATE BID AND DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A8.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A8.2 FLOOR PATTERN PLAN - ALTERNATE BID AND DETAILS
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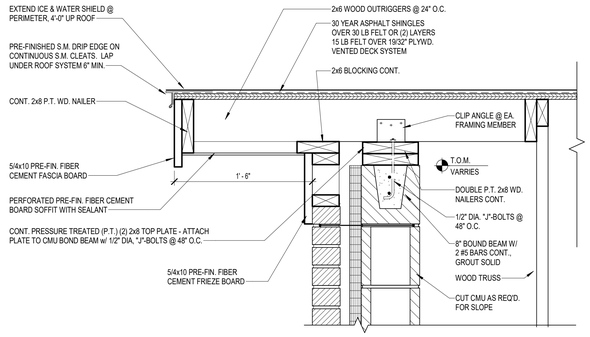
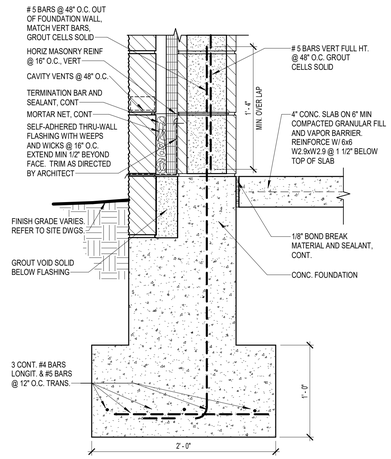
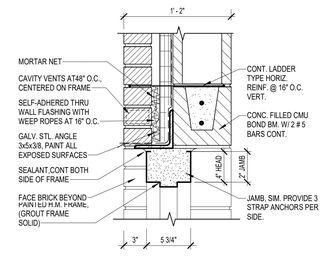


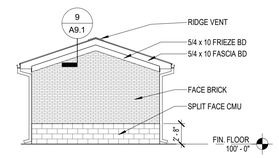
9 OUT BUILDING RAKE
1 1/2" = 1'-0"



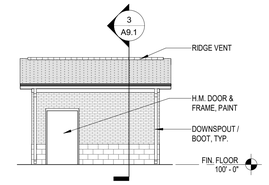
5 OUT BUILDING FOUNDATION
1 1/2" = 1'-0"



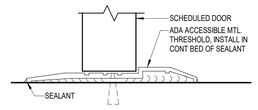
6 TYP. H.M. HEAD, JAMB SIM.
1 1/2" = 1'-0"



7 BUILDING ELEVATION
1/8" = 1'-0"



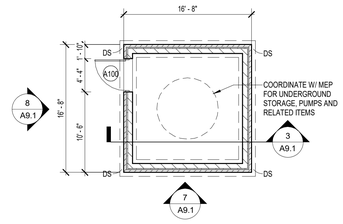
8 BUILDING ELEVATION
1/8" = 1'-0"



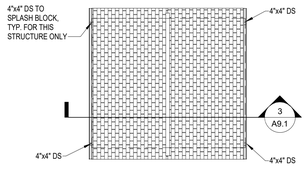
10 THRESHOLD DETAIL
6" = 1'-0"

REFER TO CIVIL FOR LOCATION AND ORIENTATION OF BUILDING

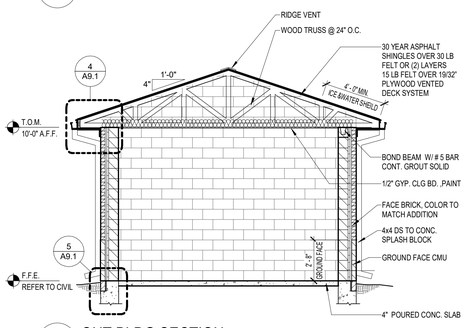
REFER TO MEP FOR LOCATIONS OF ALL PENETRATIONS, LOUVERS AND VENTS



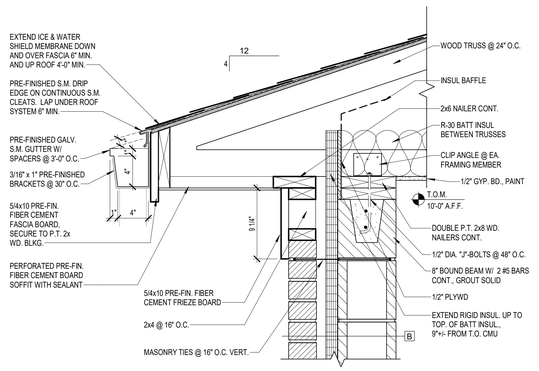
1 OUT BUILDING PLAN
1/8" = 1'-0"



2 OUT BUILDING ROOF PLAN
1/8" = 1'-0"



3 OUT BLDG SECTION
1/4" = 1'-0"



4 OUT BUILDING SOFFIT
1 1/2" = 1'-0"

DOOR SCHEDULE

NO.	DOOR NO. LEAVES	DOOR LEAF WIDTH	DOOR HT.	DOOR MATL.	DOOR TYPE	DOOR GLAZING	FRAME MATL.	FRAME TYPE	FRAME GLAZING	REFER TO THIS SHEET FOR TYP. HEAD AND JAMB DETAILS: HEAD	REFER TO THIS SHEET FOR TYP. HEAD AND JAMB DETAILS: JAMB	THRESHOLD	FIRE RATING	CLOSER DEG.	REMARKS REFER TO SHT. A7.1
A100	1	4' - 0"	7' - 0"	H.M.	F	-	H.M.	2	-	6/A9.1	6/A9.1 SIM.	10/A9.1	-	-	8

GENERAL NOTES

1. EXEMPT ENERGY CODE, MEP FOR EQUIPMENT ONLY, NOT FOR "HUMAN COMFORT".
2. COORDINATE WITH MEP FOR PIPING BELOW SLAB.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

KENTUCKY LICENSED ARCHITECT — CHRISTOPHER T. MOSS — NO. 32526 — 7/18/2019

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PUMP HOUSE

JOB NO.	1569
DATE	07/10/2019
DRAWN	CTM
CHECKED	DF/BKL

REVISIONS

No.	Description	Date

SHEET

A9.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
A9.1 PUMP HOUSE
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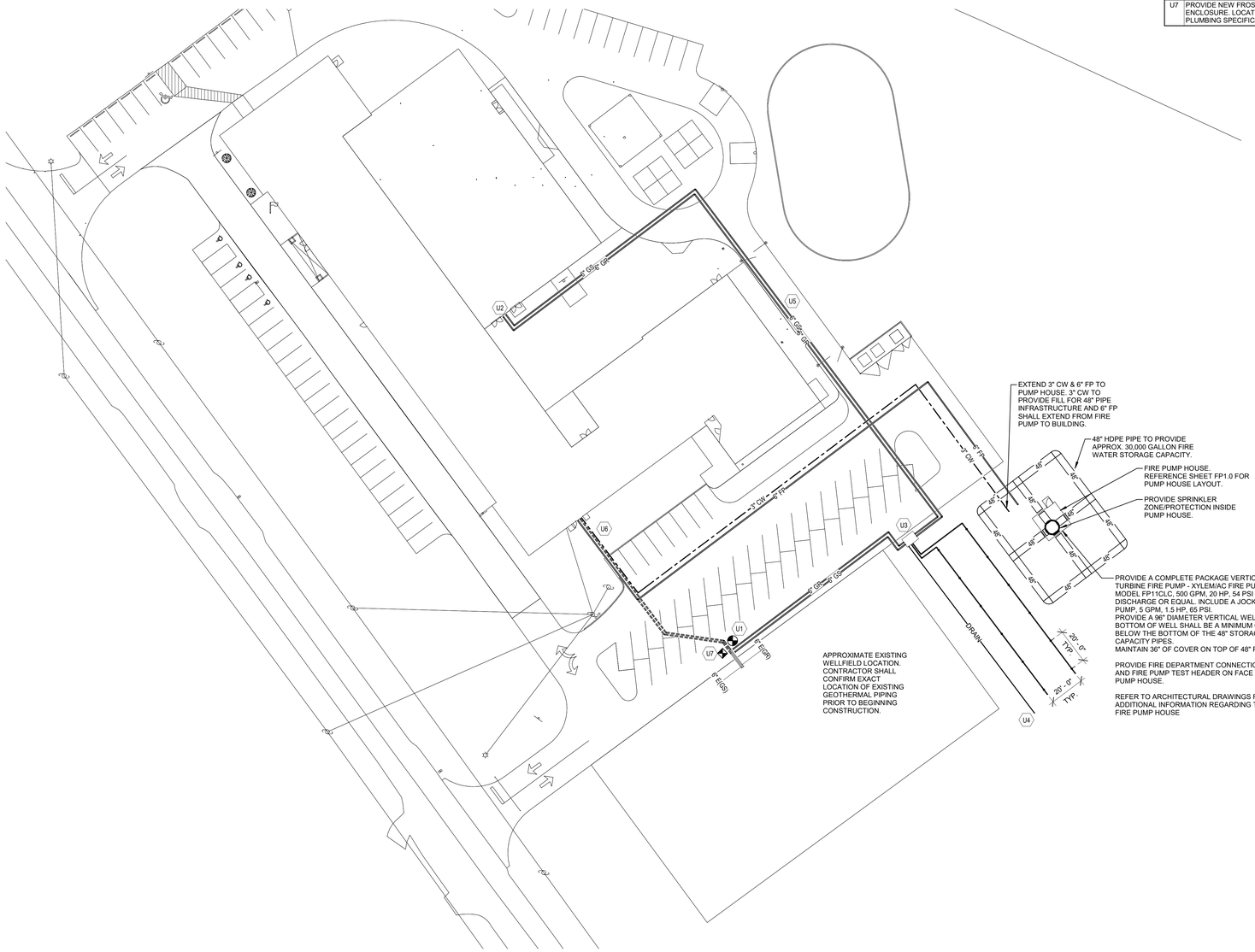
TAGGED NOTES	##
U1	CONNECT NEW GEOTHERMAL PIPING TO EXISTING MAINS ROUTED TO EXISTING WELLFIELD.
U2	GEOTHERMAL PIPING TO BUILDING. REFER TO DRAWING M4.0 FOR CONTINUATION.
U3	MANUFACTURED GEOTHERMAL WELLFIELD VAULT. REFER TO SPECIFICATIONS FOR MORE DETAIL.
U4	TERMINATE GEOTHERMAL VAULT DRAINAGE PIPE IN A PRECAST CONCRETE HEADWALL. HEADWALL TO BE STEEL REINFORCED HAVING A WALL THICKNESS OF 4" AND PROVIDED WITH A 12" DEEP CONCRETE FOOTING. PROVIDE ALL REQUIRED INLETS, HEADWALLS, AND WINGWALLS FOR A COMPLETE INSTALLATION WITH REQUIRED FINISHED GRADES. BACKFILL THE AREA OF EXCAVATION SURROUNDING EACH COMPLETED INLET, HEADWALL AND WINGWALLS AS SPECIFIED IN SECTION 201200-EXCAVATION. PIPE SHALL DRAIN INTO COMMON STORM DRAINAGE AREA.
U5	ROUTE GEOTHERMAL MAINS UNDER EXISTING UTILITIES. COORDINATE WITH ASSOCIATED CONTRACTORS.
U6	DISCONNECT EXISTING GEOTHERMAL PIPING BELOW GROUND OUTSIDE OF MECHANICAL ROOM AND AT POINT INDICATED. FILL PIPE WITH NON-COMPRESSIVE MATERIAL, CAP, AND ABANDON.
U7	PROVIDE NEW FROST PROOF HYDRANT OUTSIDE DUMPSTER ENCLOSURE. LOCATE HYDRANT IN CONCRETE. REFER TO PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.



1 SITE UTILITY PLAN - MECHANICAL

SCALE: 1" = 30'-0"

0 15' 30' 60' 90' 120' 1" = 30'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM EPPS, JR.
PE-19127
REGISTERED PROFESSIONAL ENGINEER

CMTA
1501 Westlake Street, Prospect, Kentucky 40059
502.292.1411 | FAX 502.291.1411
http://cmtaeng.com

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL SITE UTILITY PLAN

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

UM1.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
UM1.0 MECHANICAL SITE UTILITY PLAN
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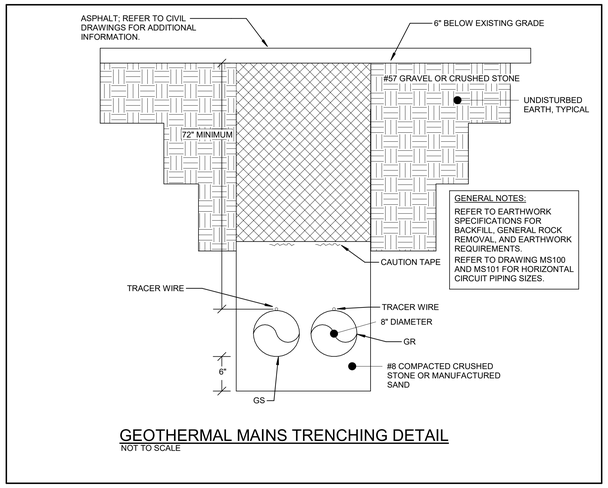
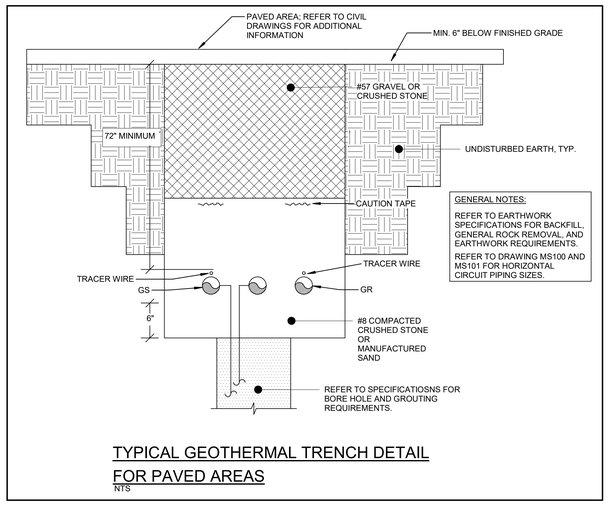
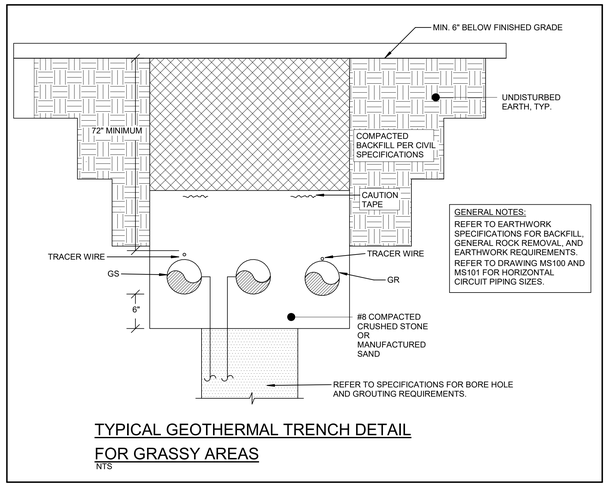


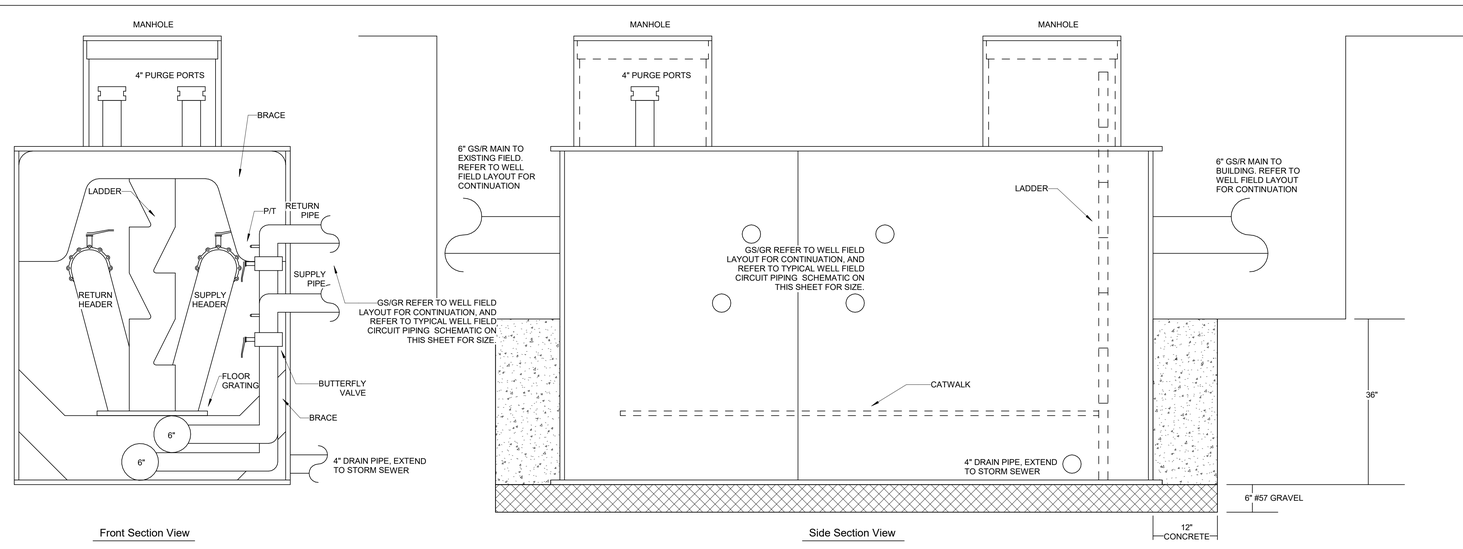
GEOTHERMAL MAINS TRENCHING DETAIL
NOT TO SCALE



TYPICAL GEOTHERMAL TRENCH DETAIL FOR PAVED AREAS
NTS

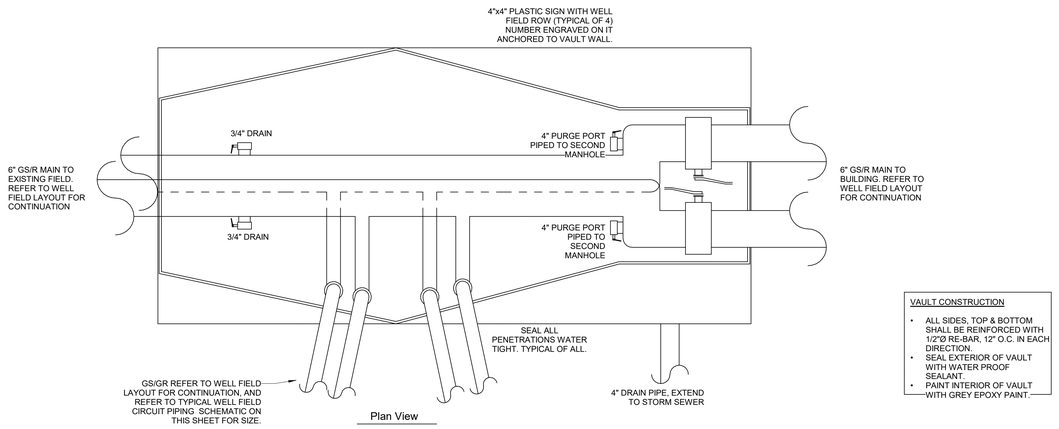


TYPICAL GEOTHERMAL TRENCH DETAIL FOR GRASSY AREAS
NTS



Front Section View

Side Section View

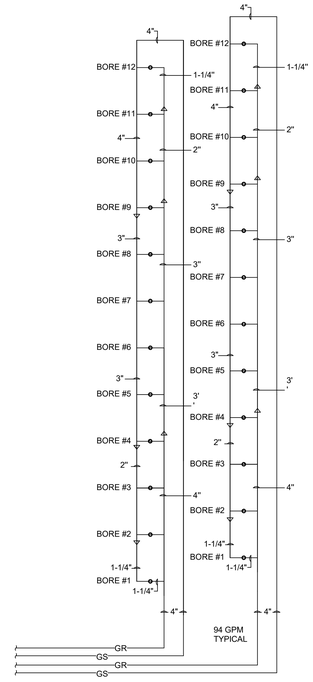


Plan View

VAULT CONSTRUCTION

- ALL SIDES, TOP & BOTTOM SHALL BE REINFORCED WITH 1/2"Ø RE-BAR, 12" O.C. IN EACH DIRECTION.
- SEAL EXTERIOR OF VAULT WITH WATER PROOF SEALANT.
- PAINT INTERIOR OF VAULT WITH GREY EPOXY PAINT.

GEOTHERMAL VAULT DETAIL
NTS



NOTES
1) PIPE SIZES TYPICAL
2) WELLS SHALL BE LOCATED ON 20 FOOT CENTERS.
3) BORE DEPTH SHALL BE 300 FEET.

TYPICAL WELLFIELD CIRCUIT PIPING SCHEMATIC
NO SCALE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM EPPS, JR.
PE-19127
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502.228.4444 | 502.228.4445
http://www.cmtaeng.com

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL SITE PLAN - DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

UM1.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
UM1.1 MECHANICAL SITE PLAN - DETAILS
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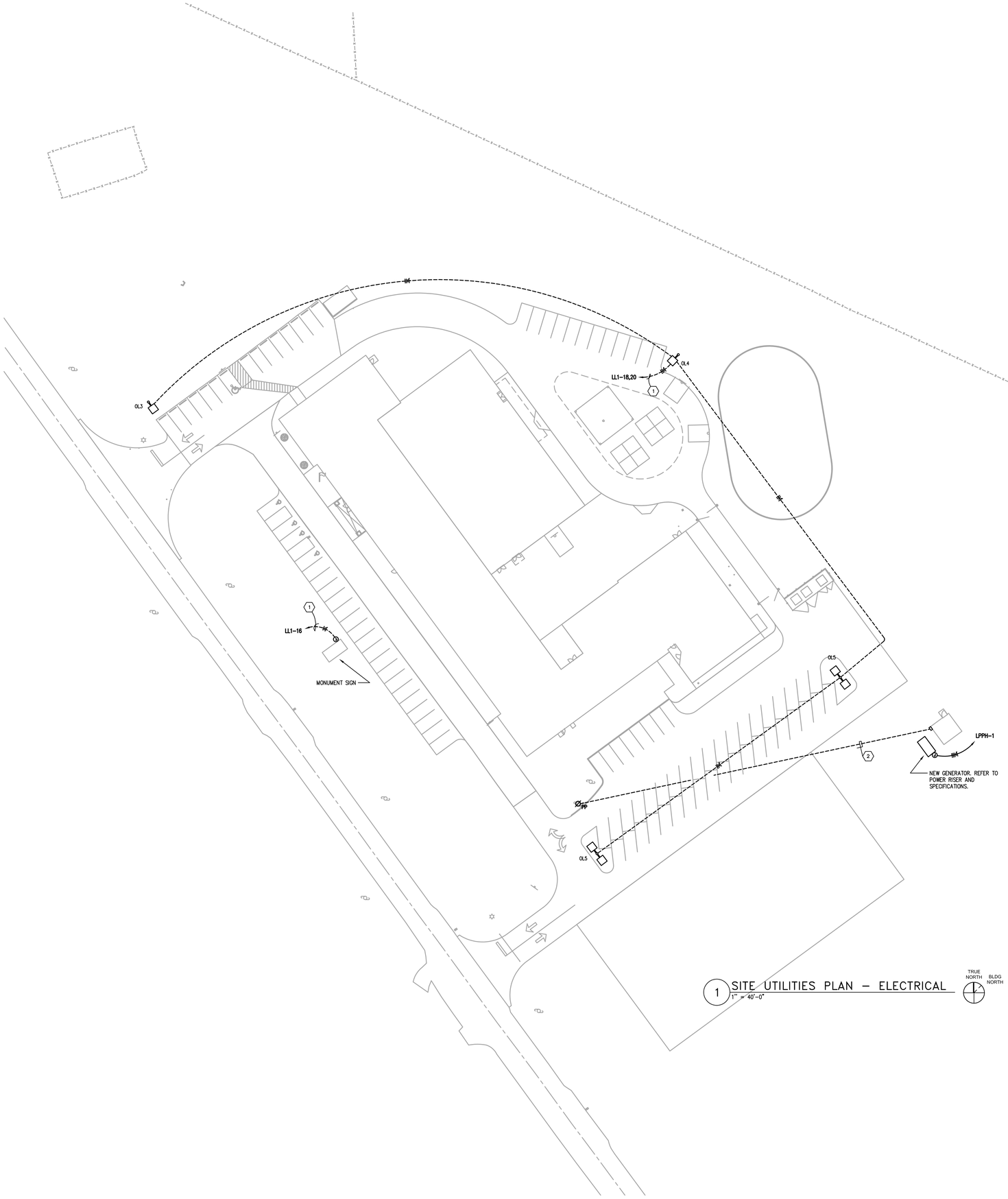


1 SITE UTILITIES PLAN – ELECTRICAL
1" = 40'-0"

TRUE NORTH BLDG NORTH

GENERAL SITE WORK NOTES :

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN – MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.

F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.

G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILITY STANDARDS SHALL TAKE PRECEDENCE.

H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

J. CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.

K. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.

L. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

TAGGED NOTES :

1. ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTROL CABINET.
2. PROVIDE NEW CONCRETE-ENCASED SERVICE SECONDARY FROM POLE MOUNTED TRANSFORMER TO NEW FIRE PUMP SERVICE WITH MINIMUM BURY AT 36". REFER TO POWER RISER FOR FURTHER REQUIREMENTS.

GENERAL INSTALLATION NOTE:

COORDINATE INSTALLATION AND PIPE CROSSINGS WITH ALL UTILITIES AND ALL TRADES TO AVOID INTERFERENCE AND TO ENSURE ALL CLEARANCES ARE MET PRIOR TO INSTALLATION.

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 811 OR 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

ELECTRICAL SITE UTILITIES LINE LEGEND

	EXISTING	DEMOLITION	NEW
OVERHEAD	(E)OH	(D)OH	(N)OH
UNDERGROUND	(E)UG	(D)UG	(N)UH
POWER POLE	(E)PP	(D)PP	(N)PP
SITE LIGHTS			
ELECTRIC	ELEC		
TELEPHONE	TEL		
TELEPHONE	FIBER		
CABLE TV	CATV		

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY — MICHAEL L. RAMEY — 28353 — LICENSED PROFESSIONAL ENGINEER

CMTA

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

SITE UTILITIES PLAN - ELECTRICAL

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

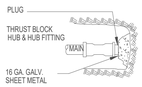
REVISIONS

No.	Description	Date

SHEET
UMEP 1.0

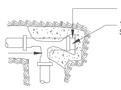
TYPE 1

STANDARD ELL
FOR VERTICAL OR HORIZONTAL



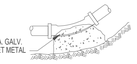
TYPE 2

DEAD END



TYPE 3

TEE TURN
FOR VERTICAL OR HORIZONTAL



TYPE 4

45° & 22 1/2° BENDS

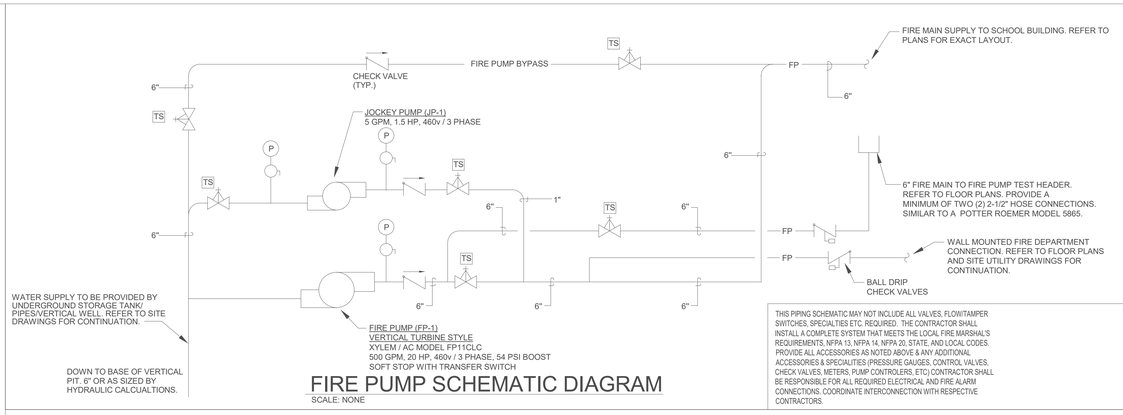
AREAS OF THRUST BLOCK REQUIRED

PIPE SIZE	TEES AND DEAD ENDS	90 ° BEND	45 ° BEND	22 1/2 ° BEND
4"	1 SQ. FT.	1.5 SQ. FT.	1 SQ. FT.	.5 SQ. FT.
6"	2 SQ. FT.	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.
8"	4 SQ. FT.	5 SQ. FT.	3 SQ. FT.	1.5 SQ. FT.

THRUST BLOCK DETAILS FOR FIRE & DOMESTIC WATER MAINS

NOT TO SCALE REFER TO SITE PLAN

NOTE: LENGTH, WIDTH & MINIMUM THICKNESS OF THRUST BLOCKS SHALL BE EQUAL TO THE DIAMETER OF THE PIPE FOR WHICH THEY ARE INSTALLED. REFER TO SITE DRAWINGS FOR ROUTING OF PIPING. PROVIDE AT EACH CHANGE OF DIRECTION.



THIS PIPING SCHEMATIC MAY NOT INCLUDE ALL VALVES, FLOWTAMPER SWITCHES, SPECIALTIES ETC. REQUIRED. THE CONTRACTOR SHALL INSTALL A COMPLETE SYSTEM THAT MEETS THE LOCAL FIRE MARSHAL'S REQUIREMENTS, NFPA 13, NFPA 14, NFPA 20, STATE, AND LOCAL CODES. PROVIDE ALL ACCESSORIES AS NOTED ABOVE & ANY ADDITIONAL ACCESSORIES & SPECIALITIES (PRESSURE GAUGES, CONTROL VALVES, CHECK VALVES, METERS, PUMP CONTROLERS, ETC) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED ELECTRICAL AND FIRE ALARM CONNECTIONS. COORDINATE INTERCONNECTION WITH RESPECTIVE CONTRACTORS.

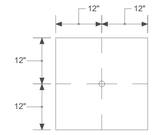
FIRE PUMP SCHEMATIC DIAGRAM

SCALE: NONE

EXISTING FIRE HYDRANT FLOW TEST DATA

FIRE PROTECTION SERVICE WILL BE SUPPLIED BY AN UNDERGROUND 30,000 GALLON FIRE PROTECTION STORAGE TANK / PIPE SYSTEM & FIRE PUMP. DOMESTIC WATER SUPPLY WILL BE PROVIDED AS A MEANS TO KEEP THE STORAGE TANK FULL TO CAPACITY DURING NON-USE.

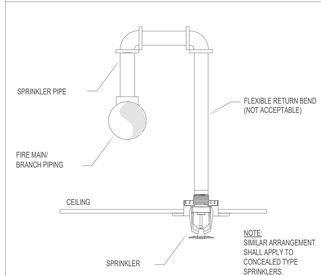
BASED ON ORDINARY HAZAZRD DESIGN (0.15/1500GPM)
PLUS 250 GPM HOSE STREAM OR 475 GPM SUPPLY FOR 60 MINUTES
28,500 GALLONS OR APPROX. 30,000 GALLON CAPACITY.



SPRINKLERS TO BE INSTALLED IN CENTER OF 2x2 CEILING TILES.

2x2 CEILING TILE DETAIL

SCALE: NONE



RETURN BEND DETAIL
SCALE: NONE

GENERAL FIRE PROTECTION NOTES:

A. THE ENTIRE BUILDING SHALL BE 100% PROTECTED WITH A FULLY AUTOMATIC FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA (13, 20, & 22), STATE AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE FIRE PROTECTION SYSTEM AS PART OF THEIR DELEGATED DESIGN. FIRE PROTECTION SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING COMPONENTS: UNDERGROUND STORAGE TANK, DIESEL FIRE PUMP, DIESEL STORAGE TANK, ALL INTERCONNECTING DIESEL PIPING AND ACCESSORIES, LEAK DETECTION, AIR COMPRESSOR, VALVES, SWITCHES, CONTROLLERS, SPRINKLER PIPING, SPRINKLERS, ETC.

B. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE ALL APPLICABLE ARCHITECTURAL FLOOR PLANS, SECTIONS, AND REFLECTED CEILING PLANS FOR LAYING OUT SPRINKLERS. FIRE PROTECTION PIPING LAYOUTS SHALL BE CAREFULLY REVIEWED AND ROUTED AS INDICATED TO AGREE WITH ARCHITECTURAL REQUESTED ROUTINGS TO ENSURE CONCEALMENT OF ALL EXPOSED PIPING IN HIGH PROFILE SPACES. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS AND SPECIFICATIONS FOR COORDINATION OF TRADES, ROOMS, STRUCTURE, AND EQUIPMENT).

C. ALL AREAS ARE TO BE PROVIDED WITH QUICK RESPONSE SPRINKLERS (EXCEPTIONS PER NFPA SHALL BE APPLIED, IE MECHANICAL SPACES, ETC.). REFER TO FLOOR PLANS FOR LOCATIONS AND SPECIFICATION SECTION 210100 FOR ACCEPTABLE MANUFACTURERS AND MODELS.

D. ALL SPRINKLERS SHALL BE CENTERED IN BOTH DIRECTIONS OF A 2' x 2' CEILING TILE. REFER TO CEILING GRID DETAIL.

E. WHERE CEILINGS ARE INDICATED, ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST OFFSET AS REQUIRED TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.

F. HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE NECESSARY TO COMPLETELY DRAIN THE SYSTEM.

G. PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS.

H. SIZE FIRE PUMP IN ACCORDANCE WITH ALL APPLICABLE NFPA GUIDELINES. (NFPA 13,20,ETC.)

I. SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.

J. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO THE M/E ENGINEER.

K. THE SPARE SPRINKLERS, WRENCH AND CABINET SHALL BE LOCATED IN THE FIRE PUMP ROOM.

L. BUILDING SHALL BE CLASSIFIED AS LIGHT/ORDINARY HAZARD. LIGHT HAZARD AREAS (IE. GENERAL POPULATION, OFFICES, RESTROOM, ETC.) SHALL BE PROVIDED WITH A SPRINKLER DENSITY OF 0.10GPM/1500SQFT. ORDINARY HAZARD GROUP I AREAS (IE STORAGE ROOMS, MECHANICAL ROOMS, ETC.) SHALL BE PROVIDED WITH A SPRINKLER DENSITY OF 0.15GPM/1500SQFT. AREA REDUCTION METHOD SHALL NOT BE APPLIED. COORDINATE ALL REQUIRED SPRINKLER DENSITIES WITH THE OWNERS INSURANCE UNDERWRITER.

M. ALL SPRINKLER PIPING SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE NFPA, STATE, AND LOCAL REQUIREMENTS. REFER TO STATE BUILDING CODE FOR ALL INFORMATION RELATED TO THE SEISMIC DESIGN CATEGORIES.

N. COORDINATE ALL SPRINKLER PIPE ROUTINGS WITH ALL ELECTRICAL EQUIPMENT.

O. PROVIDE SPRINKLER COVERAGE BELOW THE LOWEST LEVEL OF STAIR RISER/TREADS.

P. ALL AREAS HAVING CEILINGS SHALL BE PROVIDED WITH CONCEALED STYLE SPRINKLERS.

Q. ALL AREAS HAVING NO CEILINGS SHALL BE PROVIDED WITH UPRIGHT OR SIDEWALL TYPE SPRINKLERS.

R. COLOR FINISHES OF ALL SPRINKLERS/ESCUTCHEONS/COVER PLATES SHALL BE COORDINATED WITH ARCHITECT.

S. ARCHITECTURAL REFLECTED CEILING PLANS SHALL BE UTILIZED AS AN AID IN LOCATING SPRINKLERS BUT DOES NOT RELIEVE THE SPRINKLER CONTRACTOR FROM PROVIDING A FULLY PROTECTED BUILDING SPRINKLER LAYOUT. CONTRACTOR SHALL ALSO COORDINATE ALL SPRINKLER LOCATION WITH ALL TRADE DRAWINGS (LIGHTING, FIRE ALARM, SECURITY, HVAC, ETC.)

T. COORDINATE LOCATIONS OF THE FOLLOWING FIRE PROTECTION APARATUS' WITH CIVIL ENGINEER & THE LOCAL FIRE DEPARTMENT PRIOR TO INSTALLATION: FIRE DEPARTMENT CONNECTION (F.D.C.), FIRE PUMP TEST HEADER (F.P.T.H.), POST INDICATOR VALVE (P.I.V.), FIRE ALARM BELLS, ETC. COORDINATION SHALL ALSO INCLUDE VERIFICATION OF ALL HOSE CONNECTION SIZES, THREAD TYPES.

U. ALL SPRINKLER DRAIN PIPING SHALL BE DISCHARGED TO THE BUILDING EXTERIOR AT AN APPROVED LOCATION OR TO A BUILDING DRAIN CAPABLE OF HANDLING FULL FLOW.

V. ALL SPRINKLERS LOCATED IN IDF/MDF, AND ELECTRICAL ROOMS SHALL BE HIGH TEMPERATURE SPRINKLERS WITH PROTECTIVE WIRE CAGES.

W. ALL EXPOSED PIPING SHALL BE PAINTED TO MATCH SURFACE COLORS. COORDINATE ALL COLORS WITH ARCHITECT.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM EPPS, JR.
PE-19127
07/10/19
PROFESSIONAL ENGINEER

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRE PROTECTION GENERAL NOTES AND DETAILS

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FP0.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
FP0.0 FIRE PROTECTION GENERAL NOTES AND DETAILS
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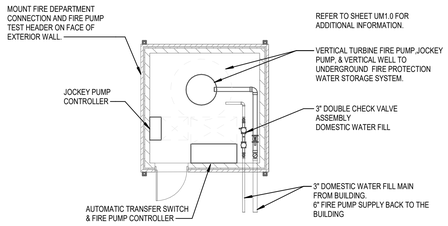
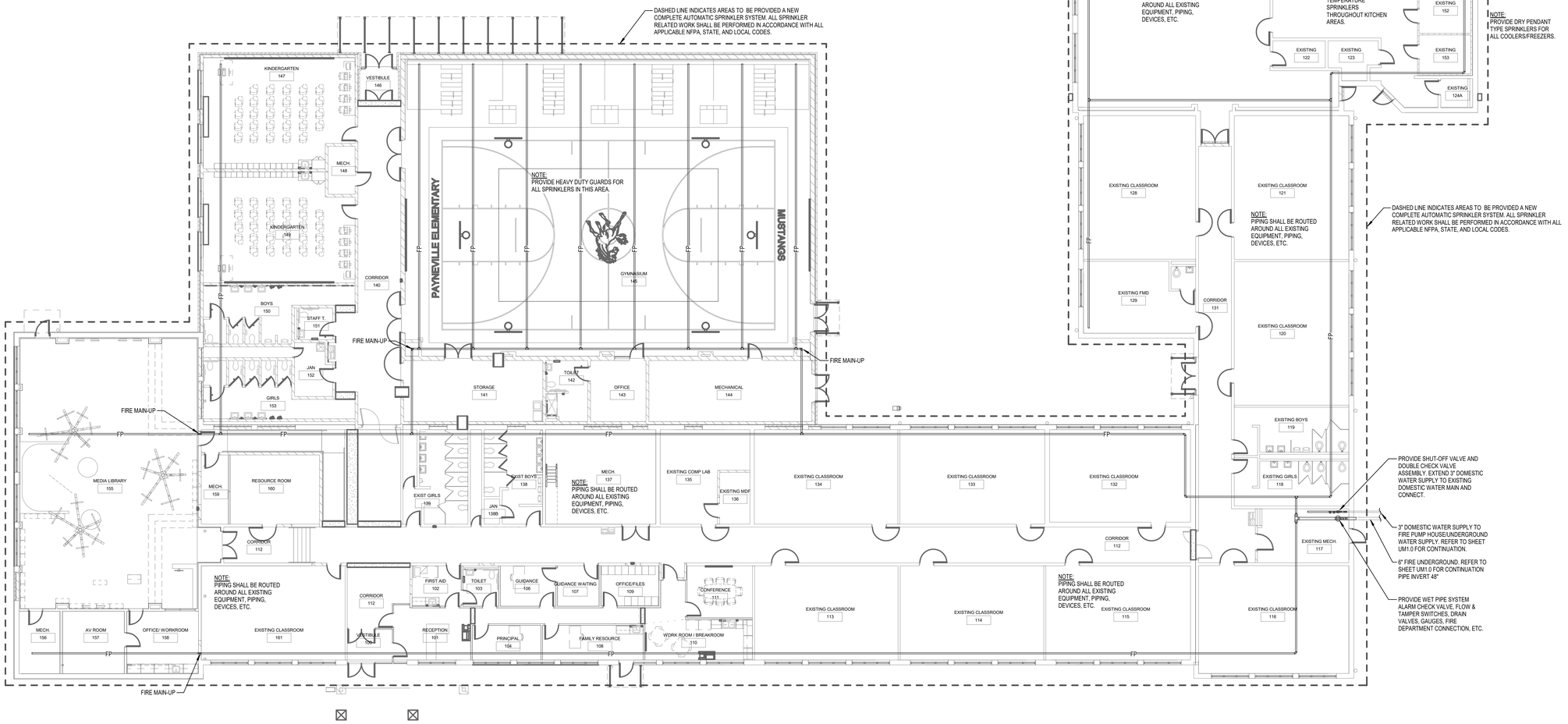


2 FIRE PUMPHOUSE - FIRE PROTECTION
1/8" = 1'-0"



1 FIRST FLOOR PLAN - FIRE PROTECTION
3/32" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - FIRE PROTECTION

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1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
FP1.0 - FIRST FLOOR PLAN - FIRE PROTECTION
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EXPANSION TANK

TAG	ET-1/2
MANUFACTURER	AMTROL
MODEL	ST-12C
MAX PRESSURE (PSI)	150
MAX TEMPERATURE	240° F
TANK VOLUME-GAL.	6.4
TANK ACCEPTANCE-GAL.	3.2

* EQUAL EXPANSION TANKS BY WATTS AND WILKINS TANKS TO BE ASME RATED.

THERMOSTATIC MIXING VALVE

TAG	TMV-1
MANUFACTURER	BRADLEY CORP.
MODEL	NRS-13-RP5-R1-AQ-H
MIN. FLOW (GPM)*	4.0
MAX. FLOW (GPM)	58.0
PRESSURE DROP AT MAX. FLOW (PSI)	10

* MINIMUM FLOW OF 0.5 GPM WHEN PROVIDED WITH A CONTINUOUSLY OPERATING RECIRC. PUMP

ELECTRIC TANK WATER HEATER

TAG	DWH-1
MANUFACTURER	A.O. SMITH
MODEL	DVE-52
GALLONS	50
KW	9
ELEMENTS	(3) 3,000 watt
GPH RECOVERY @ 77° F	53 GPH @ 70°
VOLTAGE / MAX FUSE	208V / 1ph / 43 AMPS
ASME RATED	YES
UL LISTED	YES
ASHRAE 90.1 COMPLIANT	YES

NOTES:
* EQUAL WATER HEATER BY LOCHINVAR, STATE, BOCK
* REFER TO MANUFACTURERS RECOMMENDED PIPING DIAGRAMS FOR ADDITIONAL INFORMATION.

GENERAL SCOPE NOTES:

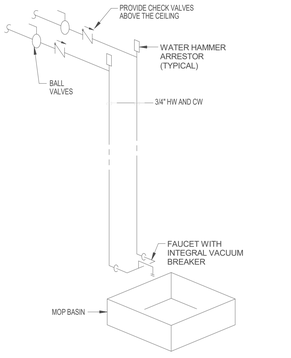
1. EACH CONTRACTOR/SUPPLIER SHALL INFORM THEIR SELF OF ALL OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, THE SITE OF THE WORK, THE OBSTACLES THAT MAY BE ENCOUNTERED, THE AVAILABILITY AND LOCATION OF NECESSARY FACILITIES AND ALL RELEVANT MATTERS CONCERNING THE WORK. EACH CONTRACTOR/SUPPLIER SHALL ALSO FULLY ACQUAINT THEIR SELF WITH ALL EXISTING CONDITIONS AS TO INGRESS AND EGRESS, DISTANCE OF HAUL FROM SUPPLY POINTS, ROUTES FOR TRANSPORTATION OF MATERIALS, FACILITIES AND SERVICES, AVAILABILITY OF UTILITIES, ETC. EACH CONTRACTOR/SUPPLIER SHALL COVER ALL EXPENSES OR DISBURSEMENTS IN CONNECTION WITH SUCH MATTERS AND CONDITIONS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE CONCERNING SUCH CONDITIONS AFTER BIDS ARE ACCEPTED.
2. THE EXISTING PLUMBING SYSTEMS WILL BE IN KEPT IN SERVICE DURING THE TIME OF CONSTRUCTION. THIS CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING THE EXISTING PLUMBING SYSTEMS FROM DAMAGE.
3. WHERE WORK IS REQUIRED ABOVE EXISTING CEILINGS AND/OR OUTSIDE OF WORKSCOPE AREA, CONTRACTORS SHALL BE RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILING TILES AND GRID MEMBERS NECESSARY TO PERFORM THIS WORK. COORDINATE CLOSELY WITH ARCHITECT, OWNER AND FACILITIES ENGINEER. REFER TO ARCHITECTURAL DRAWINGS FOR NEW CEILING LOCATIONS.
4. CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER PLUMBING EQUIPMENT DEMOLITION.
5. CONTRACTOR SHALL DISPOSE OF REMOVED PLUMBING EQUIPMENT AND COORDINATE WITH THE OWNER.
6. CONTRACTOR SHALL REPAIR OR REPLACE ANY PIPING INSULATION DAMAGED DURING DEMOLITION WORK.
7. ALL PIPING INSTALLED SHALL BE IDENTIFIED AS DOMESTIC COLD WATER (D.C.W.), AND DOMESTIC HOT WATER (D.H.W.).
8. CMTA, INC., CONSULTING ENGINEERS, HAVE NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS. THEREFORE, NO ATTEMPT HAD BEEN MADE BY THEM TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH MATERIAL. FURTHERMORE, CMTA NOT ANY AFFILIATE THEREOF WILL NEITHER OFFER NOR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL
9. PRO PRESS PIPING SYSTEMS BY VIEGA ARE AN ACCEPTABLE ALTERNATE FOR THE FOLLOWING PIPING SYSTEMS:
   - DOMESTIC WATER
   - DOMESTIC HOT WATER
   PROVIDE A 50 YEAR PARTS AND 5 YEAR LABOR WARRANTY WHICH INCLUDES CONSEQUENTIAL DAMAGES.
10. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE FLOOR AS REQUIRED TO PERFORM WORK INDICATED ON THE PLANS. FLOORS SHALL BE PATCHED AS REQUIRED TO MATCH ADJACENT SURFACES. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL PATCHING METHOD.

PLUMBING FIXTURE SCHEDULE

DESIGNATOR	FIXTURE	CW	HW	SAN	VENT
P-1	WATER CLOSET - WALL HUNG, SENSOR OPERATED FLUSH VALVE	1 1/4"	--	4"	2"
P-1A	WATER CLOSET - WALL HUNG, SENSOR OPERATED FLUSH VALVE, ADA	1 1/4"	--	4"	2"
P-2	LAVATORY - WALL HUNG, PUSH BUTTON METERING FAUCET	1/2"	1/2"	1 1/2"	1 1/2"
P-2A	LAVATORY - WALL HUNG, PUSH BUTTON METERING FAUCET, ADA	1/2"	1/2"	1 1/2"	1 1/2"
P-2B	LAVATORY - WALL HUNG, FAUCET WITH WRIST BLADE HANDLES, ADA	1/2"	1/2"	1 1/2"	1 1/2"
P-3	URINAL - WALL HUNG, SENSOR OPERATED FLUSH VALVE	1"	--	2"	1 1/2"
P-3A	URINAL - WALL HUNG, SENSOR OPERATED FLUSH VALVE, ADA	1"	--	2"	1 1/2"
P-4	ONE COMPARTMENT SINK - GOOSENECK FAUCET WITH WRIST BLADE HANDLES, ADA	1/2"	1/2"	1 1/2"	1 1/2"
P-4A	TWO COMPARTMENT SINK - GOOSENECK FAUCET WITH WRIST BLADE HANDLES, ADA	3/4"	3/4"	2"	1 1/2"
P-4B	ONE COMPARTMENT SINK - GOOSENECK FAUCET WITH WRIST BLADE HANDLES, BUBBLER, ADA	1/2"	1/2"	1 1/2"	1 1/2"
P-5	30"X60" SHOWER, TRANSITIONAL ROLL IN, SHOWER CONTROLS, 2 SHOWERHEADS, ADA	3/4"	3/4"	2"	1 1/2"
P-6	MOP BASIN, FLOOR SET, 24" x 24"	3/4"	3/4"	3"	1 1/2"
P-7	BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER STATION, REPLACE EXISTING, ADA	3/4"	3/4"	2"	1 1/2"
P-8	ICE MAKER CONNECTION BOX, RECESSED, MINI-ROUND	1/2"	--	--	--
HB	HOSE BIBB, RECESSED	1/2"	--	--	--
FPWH	FROST PROOF WALL HYDRANT, RECESSED, LOCKABLE	3/4"	--	--	--
FD-1	TOILET ROOM FLOOR DRAIN. PROVIDE WITH A TRAP PRIMER OR TRAP SEAL DEVICE.	1/2"	--	3"	1 1/2"
FD-2	MECHANICAL ROOM FLOOR DRAIN. PROVIDE WITH A TRAP PRIMER OR TRAP SEALER DEVICE.	1/2"	--	3"	1 1/2"

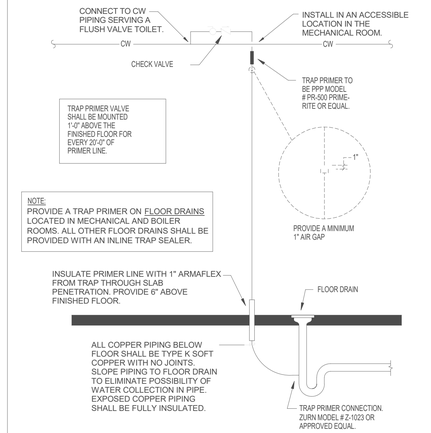
NOTES:

- PIPE SIZES ARE AS INDICATED UNLESS OTHERWISE NOTED ON FLOOR PLANS AND RISER DIAGRAMS.
- MINIMUM 2" SANITARY PIPING UNDERGROUND.
- PROVIDE ALL REQUIRED PIPING TO FIXTURES INDICATED ON THE FLOOR PLANS, INDICATED WITH A "P" DESIGNATION. PROVIDE PIPING OF SIZE INDICATED IN THIS SCHEDULE.
- PIPE ALL EQUIPMENT (SUPPLIED BY OTHERS) AS REQUIRED TO OBTAIN A FULL AND OPERATIONAL SYSTEM. PROVIDE BACKFLOW PROTECTION ASI/F REQUIRED BY THE DETAILS AND BY THE KENTUCKY PLUMBING CODE. ALL EQUIPMENT SHALL BE CONNECTED PER THE MANUFACTURER'S REQUIREMENTS. THE PLUMBING CONTRACTOR SHALL ALSO INSTALL ANY DRAIN PIPING CONNECTIONS AND SPILL INDIRECTLY TO EITHER AN OPEN RECEPTACLE OR FLOOR DRAIN. REFER TO ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF ALL EQUIPMENT.



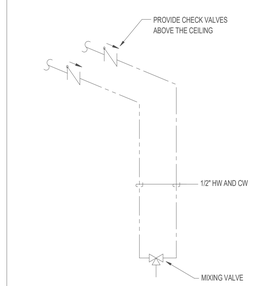
MOP BASIN DETAL

NOT TO SCALE



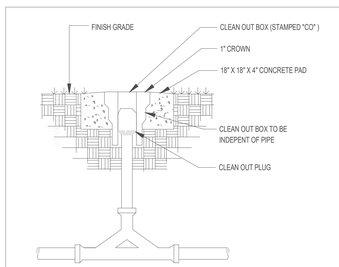
FLOOR DRAIN TRAP PRIMER PIPING SCHEMATIC

NOT TO SCALE



TYPICAL SHOWER DETAIL

NOT TO SCALE



EXTERIOR 2-WAY CLEANOUT DETAIL

NOT TO SCALE

PLUMBING LEGEND

ABOVE FINISHED FLOOR	AFF
CAST IRON	CI
CLEANOUT	CO
COLD WATER	CW
DOMESTIC WATER BOOSTER PUMP	BP
DOMESTIC WATER CIRCULATING PUMP	DP
ELECTRICAL CONTRACTOR	EC
EXPANSION TANK	ET
EXTERIOR CLEANOUT	ECO
FLOOR DRAIN	FD
FLOOR SINK	FS
FREEZE PROOF WALL HYDRANT	FPWH
GENERAL CONTRACTOR	GC
GREASE INTERCEPTOR	GI
HOSE BIBB	HB
HOT WATER	HW
MECHANICAL CONTRACTOR	MC
NOT TO SCALE	NTS
OPEN RECEPTACLE	OR
PLUMBING CONTRACTOR	PC
POLYVINYL CHLORIDE	PVC
SUMP PUMP	SP
THERMOSTATIC MIXING VALVE	TMV
TRAP PRIMER	TP
TYPICAL	TYP
VENT THROUGH ROOF	VTR
WATER HAMMER ARRESTOR	WHA
WATER HEATER	WH
SANITARY PIPING	SAN
SANITARY PIPING (BELOW SLAB) RENOVATED SPACES	SAN(BS)
SANITARY VENT PIPING	V
DOMESTIC COLD WATER PIPING	CW
DOMESTIC HOT WATER PIPING (110° F) / DOMESTIC HOT WATER RETURN PIPING (110° F)	HW / HWR
NATURAL GAS PIPING	NG
COMPRESSED AIR	CA
RELIEF VALVE DISCHARGE	RVD
PRESSURE RELIEF VALVE	
UNION	
DIGITAL THERMOMETER	
PRESSURE GAUGE	
GATE VALVE	
BALANCING VALVE	
GAS SOLENOID VALVE	
GAS SHUT-OFF VALVE	
CHECK VALVE	
DOUBLE CHECK VALVE ASSEMBLY	
BALL VALVE (NORMALLY OPEN)	
BALL VALVE (NORMALLY CLOSED)	
BALL VALVE IN RISER	
PIPING ELBOW (TURNED UP/DOWN)	
PIPING TEE (TURNED UP/DOWN)	
REDUCED PRESSURE BACKFLOW PREVENTER	
PRESSURE REDUCING VALVE	

SHERMAN CARTER BARNHART ARCHITECTS

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PAYNEVILLE, KY

PLUMBING LEGEND AND DETAILS

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No.	Description	Date

SHEET

P1.0

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PLUMBING LEGEND AND DETAILS
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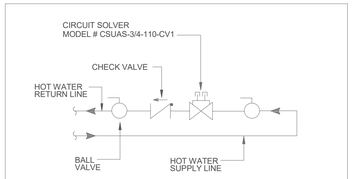
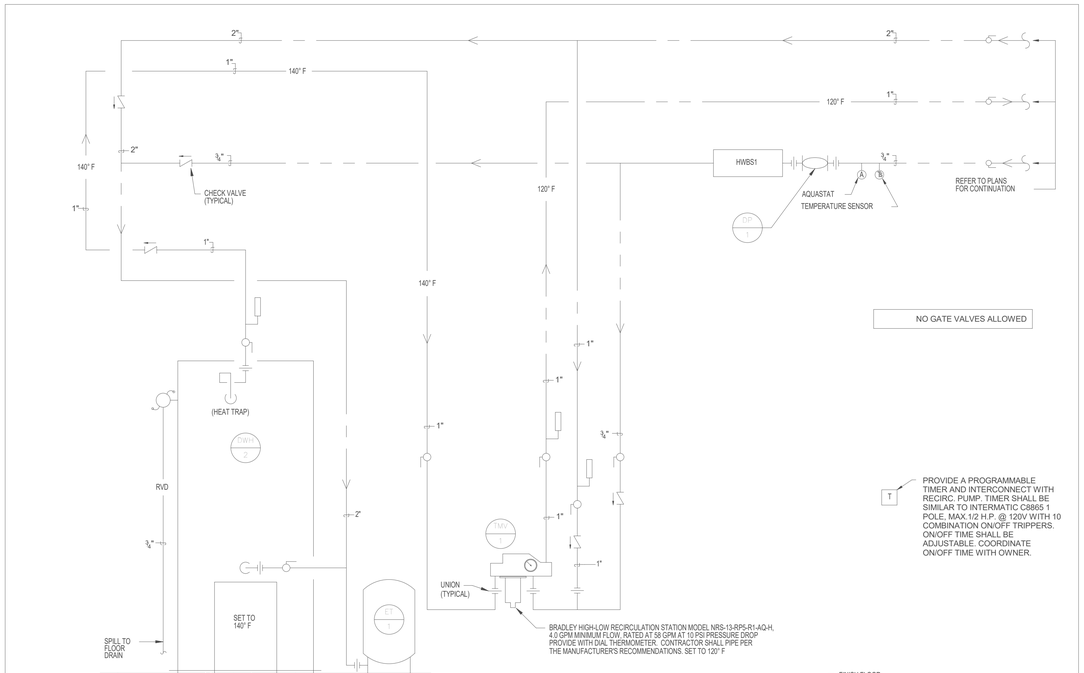


HOT WATER BALANCING STATION DETAIL (HWBS1)

NOT TO SCALE

ALL HOT WATER RETURN LOOPS



DOMESTIC WATER HEATER PIPING DIAGRAM

SCALE

SHERMAN CARTER BARNHART
ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM EPPS, JR.
PE-19127
07/10/2019
LICENSED PROFESSIONAL ENGINEER

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PLUMBING DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	JTM
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

P1.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
P1.1 PLUMBING DETAILS
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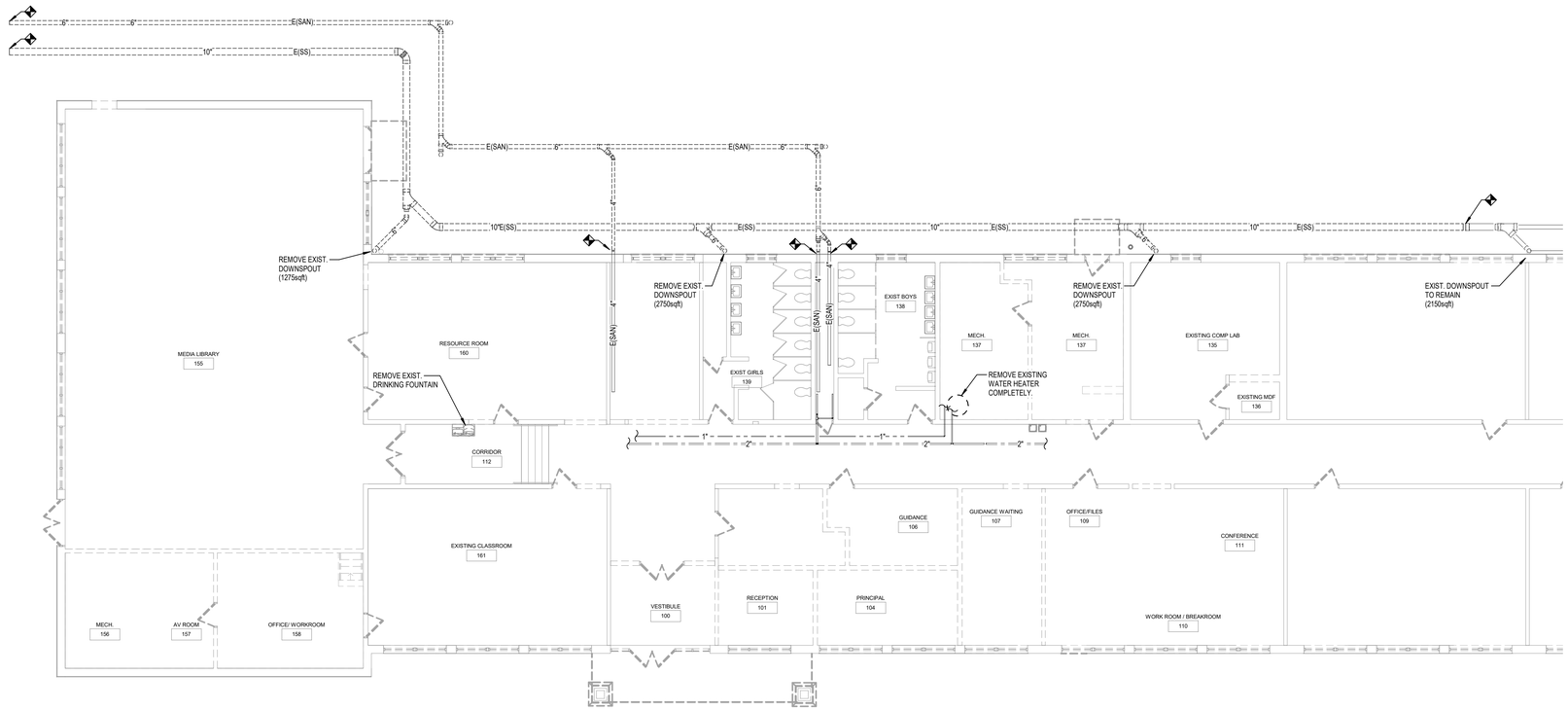

1 FIRST FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

BLDG NORTH

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
P2.1 - FIRST FLOOR PLAN - PLUMBING DEMOLITION
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SHERMAN CARTER BARNHART ARCHITECTS

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7/18/2019
LICENSED PROFESSIONAL ENGINEER

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - PLUMBING DEMOLITION

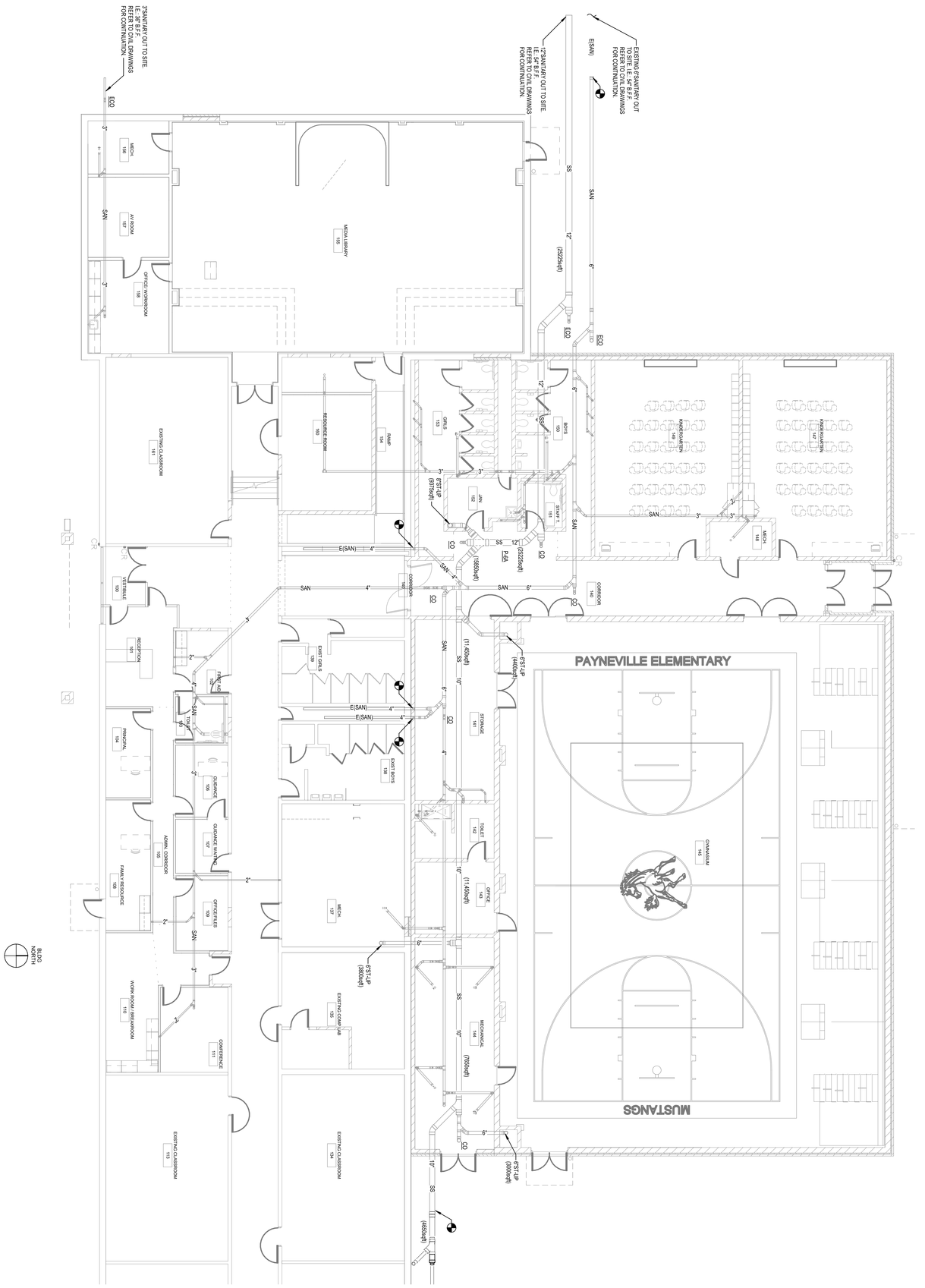
JOB NO.	1569
DATE	07/10/2019
DRAWN	JTM
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

P2.1



1 FIRST FLOOR PLAN - UNDER SLAB PLUMBING
1/8" = 1'-0"

FINAL DOCUMENTS

FIRST FLOOR PLAN - UNDER SLAB PLUMBING	**PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION** **PAYNEVILLE, KY**

CMTA
10411 Mossing Street, Prospect, Kentucky 40059
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SHERMAN CARTER BARNHART ARCHITECTS

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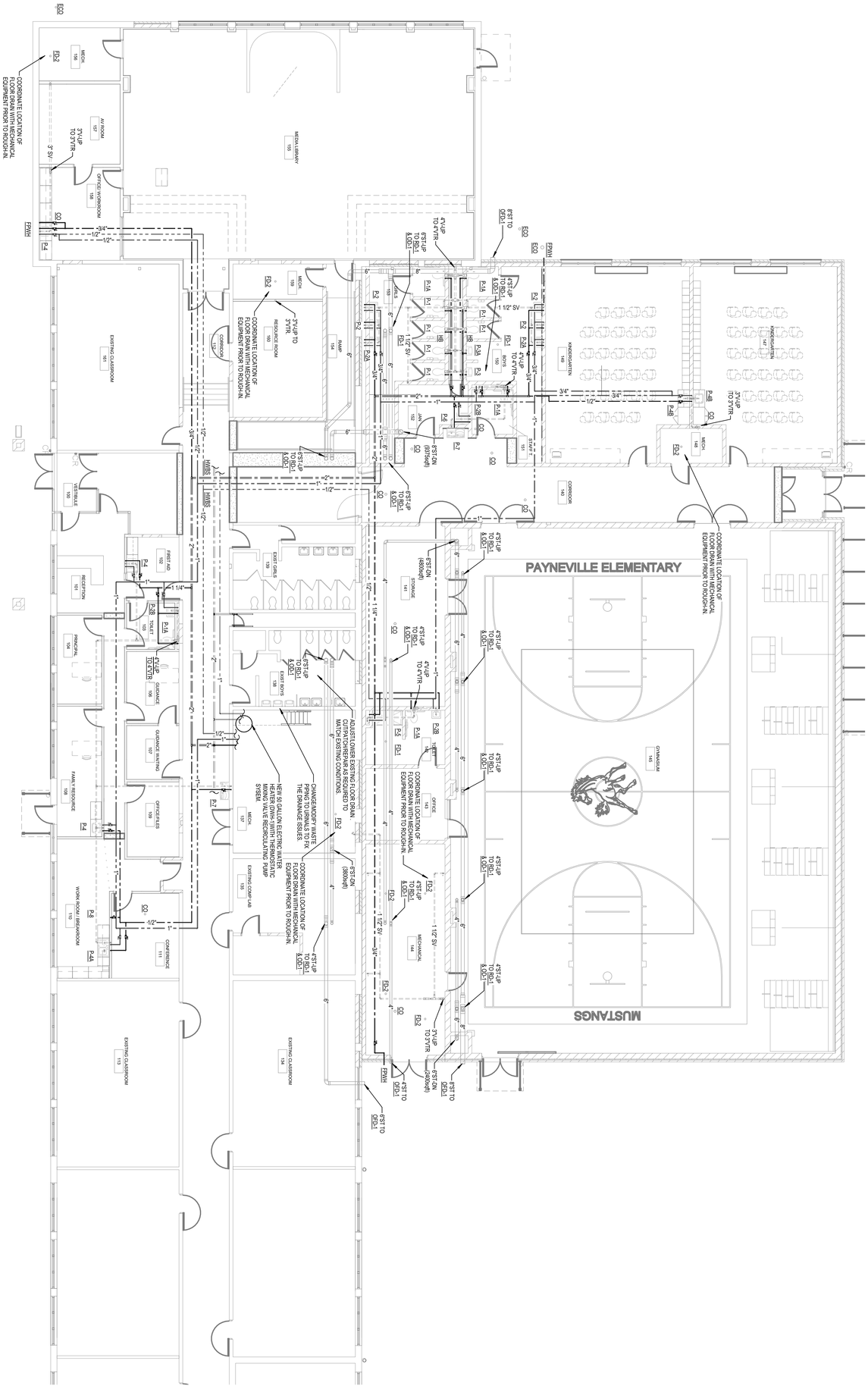
No.	Description	Date

SHEET **P3.0**



FINAL DOCUMENTS

SHEET	P3.1
REVISIONS No.	Description / Date
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DATE	07/10/2019
JOB NO.	1569

FIRST FLOOR PLAN - PLUMBING

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

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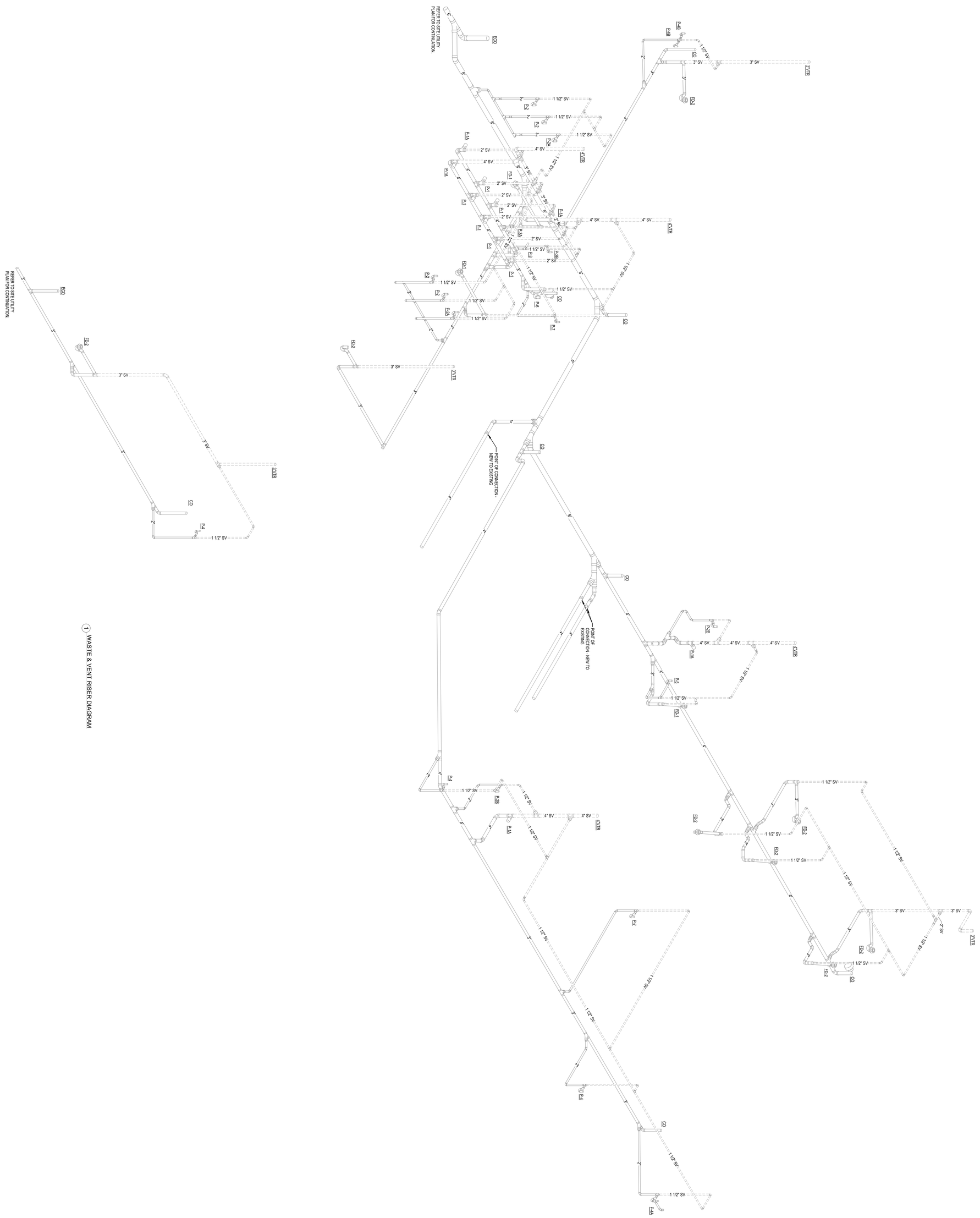
SHERMAN CARTER BARNHART ARCHITECTS



1 WASTE & VENT RISER DIAGRAM

FINAL DOCUMENTS

WASTE & VENT RISER DIAGRAM

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

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SHERMAN CARTER BARNHART ARCHITECTS

SHEET **P4.0**

REVISIONS		
No.	Description	Date

JOB NO.	1569
DATE	07/10/2019
DRAWN	JTM
CHECKED	JRE

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

1 EACH CONTRACTOR, SUPPLIER AND, OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

2 PROVIDE FIRE DAMPERS AT ALL FIRE WALLS. MINIMUM DUCT GUAGE TO BE 24 GUAGE AND SHEET METAL CONSTRUCTION TO THE DIFFUSER/GRILLE.

3 OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.) REFER TO SPECIFICATION 230 100.

4 ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.

5 WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE CONSTRUCTION MANAGER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS. REFER TO SPECIFICATIONS. COORDINATION DRAWINGS REQUIRED.

6 DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK. ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMAITON.

8 TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCT WORK ELBOWS. TURNING VANES SHALL NOT BE INSTALLED FOR KITCHEN EXHAUST DUCTS.

9 THESE DRAWINGS ARE ACCURATE TO THE BEST OF THE ENERINEER'S KNOWLEDGE, HOWEVER LOCATIONS, ELEVATIONS AND SIZES SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF BID.

10 ALL BRANCH CONNECTIONS TO BE LOW LOSS, FLARED CONNECTIONS A MINIMUM OF 6" WIDER AND 2" DEEPER THAN BRANCH DUCTWORK, IN DIRECTION OF AIR FLOW UTILIZING 30° ANGLE. ALL PLENUM CONNECTIONS TO BE LOW LOSS, FLARED CONNECTIONS A MINIMUM OF 12" WIDER (6" EACH SIDE) AND 6" DEEPER (3" EACH SIDE) THAN THE CONNECTION DUCTWORK.

11 CONTRACTOR SHALL INCLUDE COORDINATION DRAWINGS (REFER TO SPECIFICATIONS). COORDINATION OF ALL BUILDING SYSTEMS WHICH INCLUDES ALL TRADES WITH SUFFICIENT DETAILS FOR COMPLETE HVAC SYSTEM INSTALLATION. CONTRACTOR SHALL PROVIDE ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., (WHICH MAY NOT BE INDICATED) AS NECESSARY FOR A COMPLETE MECHANICAL SYSTEM. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION. NO ADDITIONAL COSTS WILL BE ALLOWED FOR COORDINATION OF SYSTEMS. NOTE: AT SEVERAL LOCATIONS, DUCTWORK IS LOCATED UP IN THE STEEL, ROTE BETWEEN BEAMS AND THROUGH JOISTS.

12 WHERE PENETRATION ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY. COORDINATE ALL SUCH PENETRATIONS WITH THE GENERAL CONTRACTOR/ROOFER.

13 ADVISE THE CONSTRUCTION MANAGER, ARCHITECT AND ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE. TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE OWNERS REPRESENTATIVES AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE. AFTER THIS DATE, THE ENGINEER WILL PROVIDE AN INTERPRETATION FOR THE SCOPE TO BE PROVIDED WITHOUT ADDITIONAL COST TO THE PROJECT.

14 COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

15 THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, AND SAFE FACILITY. CONTRACTOR TO PROVIDE ALL SCOPE AS REQUIRED TO MEET THE PURPOSE AND INTENT, ANYTHING LESS SHALL BE UNACCEPTABLE.

16 ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION SHALL BE THAT OF THE CONTRACTING OFFICER'S REPRESENTATIVE.

17 INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE CONTRACTING OFFICER'S REPRESENTATIVES PRIOR TO INSTALLATION FOR CLARIFICATION.

18 ALL SUPPORTS FOR EQUIPMENT, DEVICES, OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE CONTRACTING OFFICER'S REPRESENTATIVE AND CONSENT OF THE OTHER TRADE, IN WRITING.

19 DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVES OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

20 THE CONSTRUCTION MANAGER FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.

21 DESIGN HAS BEEN COORDINATED TO PREVENT EQUIPMENT FROM BEING LOCATED ABOVE HARD CEILINGS. MECHANICAL/ELECTRICAL ITEMS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR (24"x24" MIN.) SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT BY THIS CONTRACTOR.

22 THE MECHANICAL CONTRACTOR AND ALL OTHER CONTRACTORS SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.

23 THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH DRAINING AND FILLING/ RE-FILLING PIPING SYSTEMS AS REQUIRED TO INSTALL THEIR NEW WORK, PURGE AND FINAL INSTALLATION/ START-UP OF THE SYSTEM.

24 TEST AND BALANCE AGENCY IS TO PROVIDE VARIABLE SPEED DRIVE SETTINGS AS PART OF BALANCING. TAB AGENCY IS ALSO TO PROVIDE STATIC PRESSURE SENSOR SET POINTS AS NECESSARY FOR BALANCED AIR FLOW RATES. BALANCING DAMPERS ABOVE HARD CEILING SHALL BE LOCATED TO ALLOW ACCESS VIA LAY IN CEILING OR DIFFUSERS INSTALLATION SHALL BE REMOVABLE. VALVES LOCATED ABOVE HARD CEILINGS SHALL BE ACCESSIBLE VIA LAY IN CEILING OR ACCESS DOOR REQUIRED. (24"x24" MIN.)

25 THE OUTSIDE AIR SYSTEM IS DESIGNED WITH A HIGH LEVEL OF DIVERSITY. ALL TERMINALS UNITS WILL NEED TO BE SET AT MINIMUM FLOW AND EACH SPACE (TERMINAL UNIT) BALANCED INDIVIDUALLY FOR THE DESIGN FLOW. THE RELIEF AIRFLOW FOR THAT SPACE SHALL BE THE RESULTANT AIRFLOW AVAILABLE (REMAINING AIRFLOW AFTER THE EXHAUST).

26 PRIOR TO ORDERING ANY MATERIALS OR ROUGH-IN OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (I.E. VOLTAGE, PHASE, CIRCUIT BREAKER, WIRE SIZING, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS, VENDORS, AND SUPPLIERS AND SHALL INSURE COMPLETE, 100% FUNCTIONAL, TESTED, INSPECTED, AND APPROVED SYSTEMS. CLAIMS FOR ADDITIONAL COST OR CHANGE ORDERS WILL IMMEDIATELY BE REJECTED.

27 SEISMIC DESIGN DELEGATED WITH SEISMIC DESIGN CRETERIA B; AT MINIMUM, CONTRACTOR TO PROVIDE EQUIPMENT BRACING. EQUIPMENT BRACING SHALL BE INCLUDED FOR EQUIPMENT WEIGHING 31 POUNDS OR MORE (EXCLUDING DISTRIBUTED SYSTEMS SUCH AS PIPING, ETC.). BRACING WILL BE ACCOMPLISHED BY EITHER REGID OR FLEXIBLE SYSTEMS. ALL EQUIPMENT MOUNTINGS WILL BE DESIGNED TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION. ALL BRACING SHALL BE CONTRACTOR DESIGNED.

28 PROJECT INCLUDES COMMISSIONING. COORDINATE ALL SCOPE, TRAINING, START-UP AND COMPLETE SYSTEM OPERATION. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING THE SYSTEMS AS SPECIFIED. REFER TO COMMISSIONING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET **OR** FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET **OR** FOOT
SQ IN	SQUARE INCH **OR** INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FEQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS

#	TAGGED NOTE DESIGNATOR
A	REVISION TRIANGLE
ROOM NAME [SIZE #]	ROOM TAG
TAG MARK INSTAN INSTANCE	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
TAG XXX ADP/LOW #/###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##/##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##ø	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
TA	TRANSFER AIR DUCT
CAE	COMBUSTION AIR EXHAUST DUCT
CAI	COMBUSTION AIR INTAKE DUCT
SA	SA AIR DUCT TURNING UP
SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
D(XXX)	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
T	THERMOSTAT
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR
TC	TEMPERATURE & CARBON DIOXIDE SENSOR
VERT. HORIZ.	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	MOTORIZED DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER
VERT. HORIZ.	COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
CD	CONDENSATE DRAIN
CHWS/R	CHILLED/HOT WATER SUPPLY/RETURN (DUAL TEMP)
GS/R	GEOTHERMAL WATER SUPPLY/RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
A(XXX)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OSBY (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
P	FLOW SWITCH
P	PRESSURE SWITCH
P	TAMPER SWITCH
	THERMOMETER
T	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

HAZARDOUS MATERIALS NOTES

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.

D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

GENERAL NOTES - DEMOLITION

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.

B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.

E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

PHASING NOTES

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

STRUCTURAL COORDINATION NOTES (APPLICABLE TO ALL DRAWINGS)

1. THE MEP PLANS INDICATE APPROXIMATE LOCATIONS OF PENETRATIONS. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND THE PLANK MANUFACTURER.
2. FOR ALL PENETRATIONS THAT CAN BE PROPERLY INSTALLED IN A 6"ø OR SMALLER OPENING, THE CONTRACTOR WHO'S WORK REQUIRES THE PENETRATION SHALL BE RESPONSIBLE FOR CORE DRILLING THE OPENING. THESE PENETRATIONS SHALL BE COORDINATED WITH THE PLANK MANUFACTURER AND MUST NOT DAMAGE THE REINFORCING STEEL.
3. REPAIRS FOR DAMAGED REINFORCING STEEL WILL BE THE RESPONSIBILITY OF THE PARTY AT FAULT. THE PLANK MANUFACTURER SHALL PROVIDE INSTRUCTIONS ON HOW TO FIELD LOCATE CORE DRILL OPENINGS WITHOUT DAMAGING REINFORCING STEEL. IF CORE DRILL LOCATIONS ARE INSTALLED PER INSTRUCTIONS AND DAMAGE OCCURS, THE PLANK MANUFACTURER SHALL BE RESPONSIBLE FOR REPAIRS. IF THE CONTRACTOR DOES NOT FOLLOW THE INSTRUCTIONS AND DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS.
4. FOR ALL PENETRATIONS THAT CANNOT BE PROPERLY INSTALLED IN A 6"ø OR SMALLER OPENING, THE PLANK MANUFACTURER SHALL PROVIDE THE OPENING. ALL PENETRATIONS MANUFACTURED WITHIN THE PLANKS MUST BE RECTANGULAR AND MUST BE COORDINATED BY THE CONTRACTOR REQUIRING THE OPENING. CONTACT THE ARCHITECT FOR ANY REQUIRED PENETRATIONS NOT SHOWN ON DRAWINGS.
5. OPENINGS PROVIDED BY THE PLANK MANUFACTURER WILL ONLY BE FURNISHED DURING THE MANUFACTURE OF THE PLANKS. PENETRATIONS LARGER THAN 6"ø THAT WERE NOT COORDINATED WITH PLANK MANUFACTURER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUIRING THE PENETRATION. SUCH PENETRATIONS MADE ON SITE SHALL BE MADE PER PLANK MANUFACTURER'S INSTRUCTIONS. ALL ADDITIONAL COSTS INCURRED BY SUCH PENETRATIONS MADE ON SITE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUIRING THE PENETRATION. NOTIFY THE ARCHITECT OF ANY SUCH PENETRATIONS.
6. ALL MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS THROUGH FLOORS SHALL BE SEALED / SAFED / DAMPERED AS REQUIRED TO COMPLY WITH APPLICABLE CODES. ANY ANCILLARY / ANNULAR SPACE BETWEEN DUCTWORK AND FLOOR SLAB OR PLANK / PARTITION MUST BE SEALED W/ APPROVED NON-COMBUSTIBLE MATERIAL.

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL LEGEND

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M1.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M1.0 MECHANICAL LEGEND
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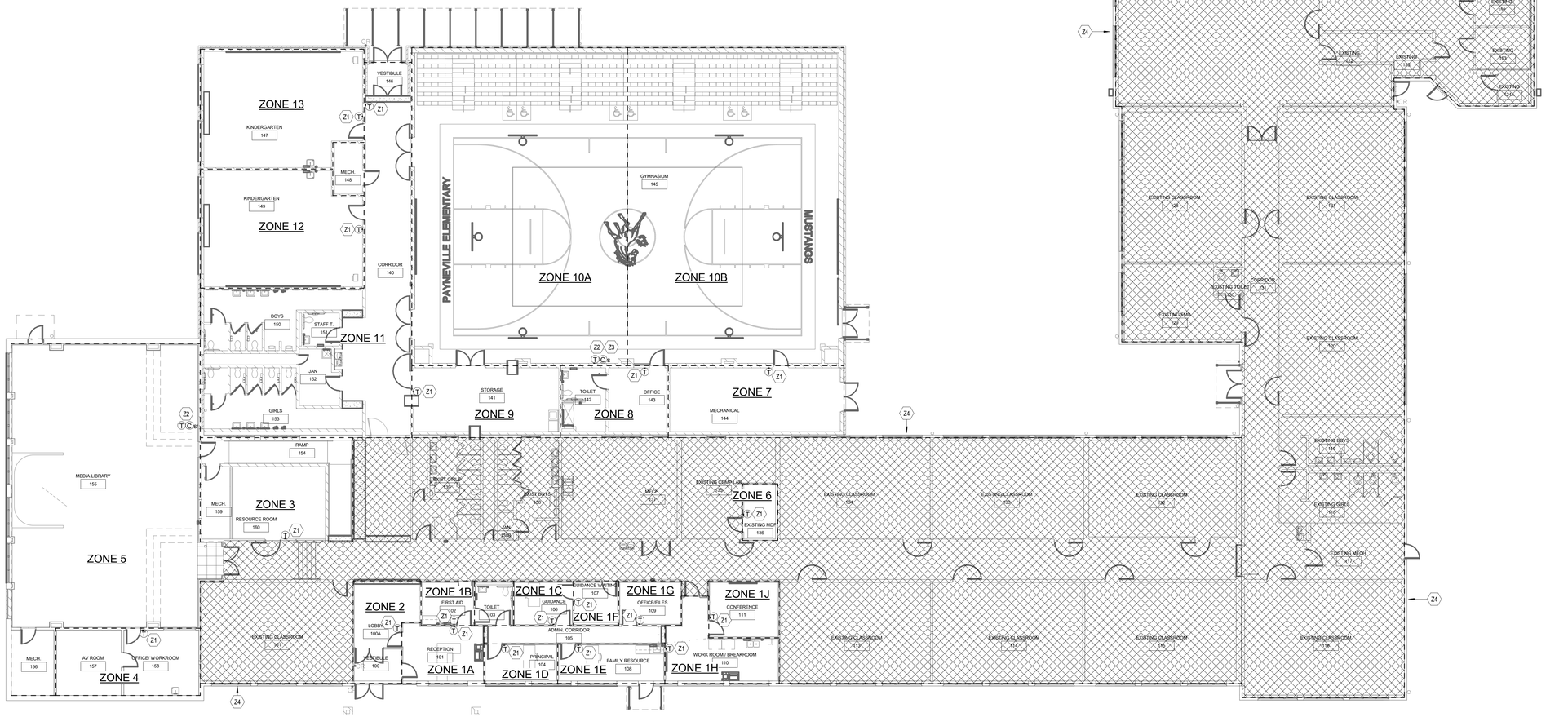
TAGGED NOTES	##
Z1	FURNISH AND INSTALL NEW WALL MOUNTED THERMOSTAT. REFER TO CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.
Z2	FURNISH AND INSTALL NEW WALL MOUNTED COMBINATION THERMOSTAT AND CO2 SENSOR. REFER TO CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.
Z3	INSTALL NON ADJUSTABLE PLATE TYPE SENSORS FOR GYMNASIUM HEAT PUMP UNITS.
Z4	HATCHING INDICATES NO ZONING REVISION IN THIS AREA.



1 FIRST FLOOR PLAN - MECHANICAL ZONING
SCALE: 3/32" = 1'-0"

0 4' 8' 16' 32' 48' 64'

1/16" = 1'-0"

BLDG NORTH

FINAL DOCUMENTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - MECHANICAL ZONING

JOB NO.	1569
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SHEET

M1.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M1.1 FIRST FLOOR PLAN - MECHANICAL ZONING
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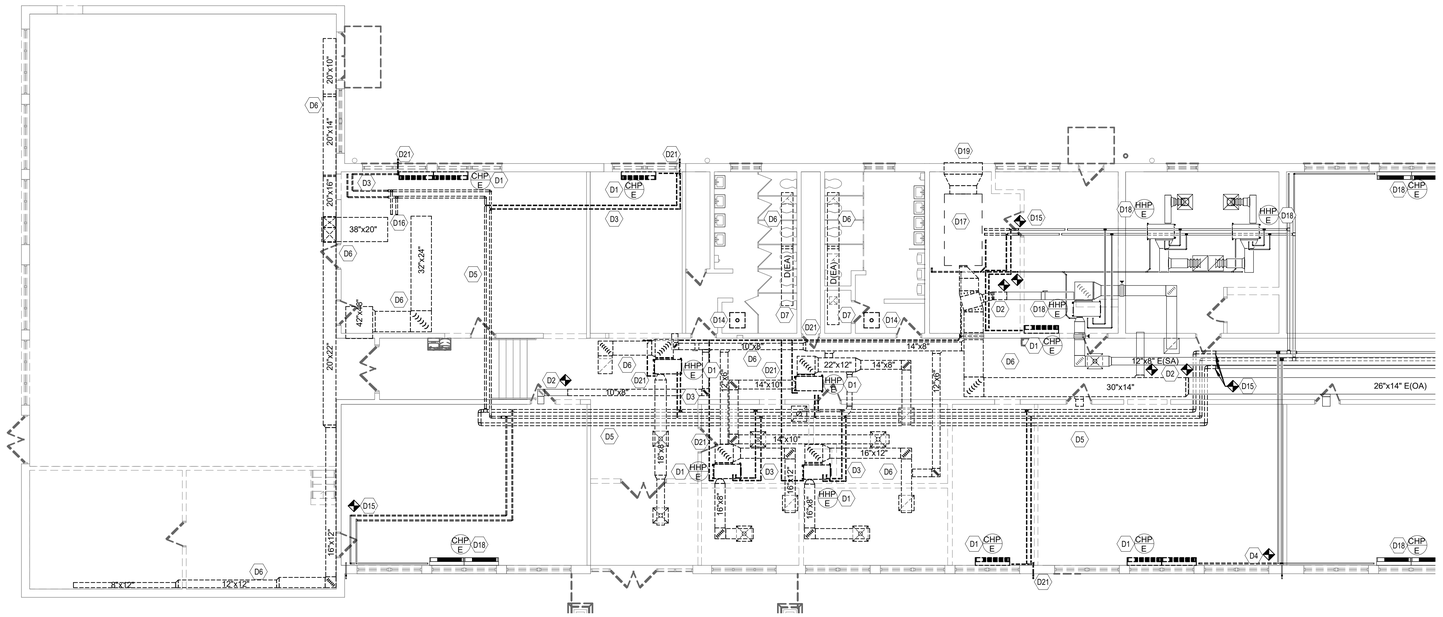
TAGGED NOTES	##
D1	DEMOLISH EXISTING HEAT PUMP UNIT AND ALL ASSOCIATED HANGERS/PIPING/DUCTWORK/ETC. FOR THROUGH WALL CONSOLE HEAT PUMP UNITS, PATCH AND REPAIR WALL COMPLETE TO MATCH ADJACENT SURFACES. REFER TO ARCHITECTURAL/STRUCTURAL DETAILS FOR ADDITIONAL INFORMATION.
D2	DEMOLISH EXISTING DUCTWORK BACK TO POINT INDICATED.
D3	DEMOLISH EXISTING GEOTHERMAL WATER PIPING COMPLETELY. TYPICAL.
D4	DEMOLISH EXISTING GEOTHERMALRUNOUT BACK TO MAIN AND CAP. TYPICAL.
D5	DEMOLISH EXISTING PIPING INCLUDING ALL HANGERS/CLAMPS/ETC.
D6	DEMOLISH EXISTING DUCTWORK INCLUDING ALL HANGERS/CLAMPS/ETC.
D7	DEMOLISH EXISTING EXHAUST AIR DUCT THROUGH ROOF. PENETRATION TO BE REPAIRED DURING REROOFING PROCESS.
D14	DEMOLISH EXISTING RADIANT HEATER COMPLETE.
D15	DEMOLISH EXISTING PIPING TO POINT INDICATED.
D16	DEMOLISH EXISTING PIPING UP TO ROOFTOP UNIT.
D17	DEMOLISH EXISTING OUTSIDE AIR UNIT AND ALL ASSOCIATED HANGERS/PIPING/DUCTWORK/ETC. TYPICAL OF ALL.
D18	EXISTING HEAT PUMP TO REMAIN.
D19	DEMOLISH EXISTING DUCT THROUGH WALL AND LOUVER. PATCH WALL TO MATCH EXISTING. MAINTAIN ALL NECESSARY WALL RATINGS.
D21	DEMOLISH CONDENSATE PIPING COMPLETE.



1 PARTIAL FIRST FLOOR PLAN - AREA 'A' - MECHANICAL DEMOLITION

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

0 2' 4' 8' 16' 24' 32' 1/8" = 1'-0"

BLDG NORTH

FINAL DOCUMENTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PARTIAL FIRST FLOOR PLAN - AREA 'A' - MECHANICAL DEMOLITION

JOB NO.	1569
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REVISIONS

No.	Description	Date

SHEET

M2.0A

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M2.0A - PARTIAL FIRST FLOOR PLAN - AREA 'A' - MECHANICAL DEMOLITION
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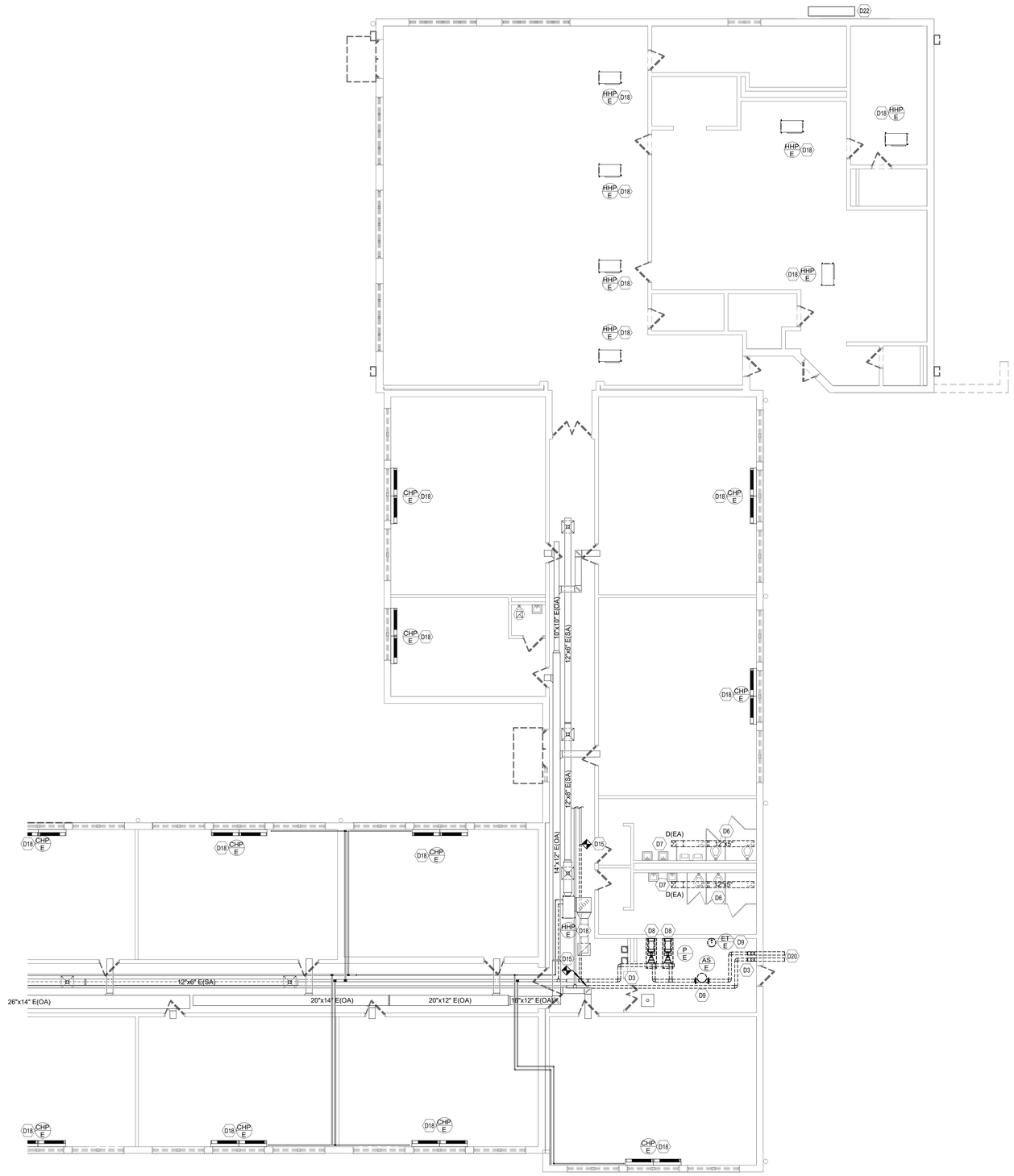
TAGGED NOTES	##
D3	DEMOLISH EXISTING GEOTHERMAL WATER PIPING COMPLETELY. TYPICAL.
D6	DEMOLISH EXISTING DUCTWORK INCLUDING ALL HANGERS/CLAMPS/ETC.
D7	DEMOLISH EXISTING EXHAUST AIR DUCT THROUGH ROOF. PENETRATION TO BE REPAIRED DURING REROOFING PROCESS.
D8	DEMOLISH EXISTING PUMP AND ALL ASSOCIATED PIPING.
D9	DEMOLISH EXISTING AIR SEPARATORS/EXPANSION TANKS AND SUPPORTS/HANGERS.
D15	DEMOLISH EXISTING PIPING TO POINT INDICATED.
D18	EXISTING HEAT PUMP TO REMAIN.
D20	DEMOLISH UNDERGROUND PIPING. SEE SITE PLAN ON UM1.0 FOR PIPING CONTINUATION.
D22	DISCONNECT FREEZER/COOLER CONDENSER REFRIGERANT PIPING AND MAINTAIN EQUIPMENT FOR REINSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND PRESERVING REFRIGERANT. COORDINATE FREEZER/COOLER SHUTDOWN WITH OWNER.



1 PARTIAL FIRST FLOOR PLAN - AREA 'B' - MECHANICAL DEMOLITION

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

0 2' 4' 8' 16' 24' 32' 1/8" = 1'-0"

BLDG NORTH

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M2.0B - PARTIAL FIRST FLOOR PLAN - AREA 'B' - MECHANICAL DEMOLITION
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SHERMAN CARTER BARNHART ARCHITECTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PARTIAL FIRST FLOOR PLAN - AREA 'B' - MECHANICAL DEMOLITION

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REVISIONS

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M2.0B

TAGGED NOTES	##
D10	DEMOLISH EXISTING ROOF MOUNTED EXHAUST FAN. REMOVE CURB COMPLETE. PENETRATION TO BE REPAIRED DURING REROOFING PROCESS.
D11	DEMOLISH EXISTING ROOFTOP UNIT. REMOVE CURB COMPLETE. PENETRATION TO BE REPAIRED DURING REROOFING PROCESS.
D12	DEMOLISH EXISTING INTAKE/RELIEF HOOD. REMOVE CURB COMPLETE. PENETRATION TO BE REPAIRED DURING REROOFING PROCESS.
D13	EXISTING MAKEUP AIR UNIT/EXHAUST FAN TO BE REMOVED AND REPLACED DURING REROOFING. DEMOLISH EXISTING ROOF CURB COMPLETE.

1 ROOF PLAN - MECHANICAL DEMOLITION

SCALE: 3/32" = 1'-0"

0 4' 8' 16' 32' 48' 64' 1/16" = 1'-0"

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ROOF PLAN - MECHANICAL DEMOLITION

JOB NO.	1569
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1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M2.1 ROOF PLAN - MECHANICAL DEMOLITION
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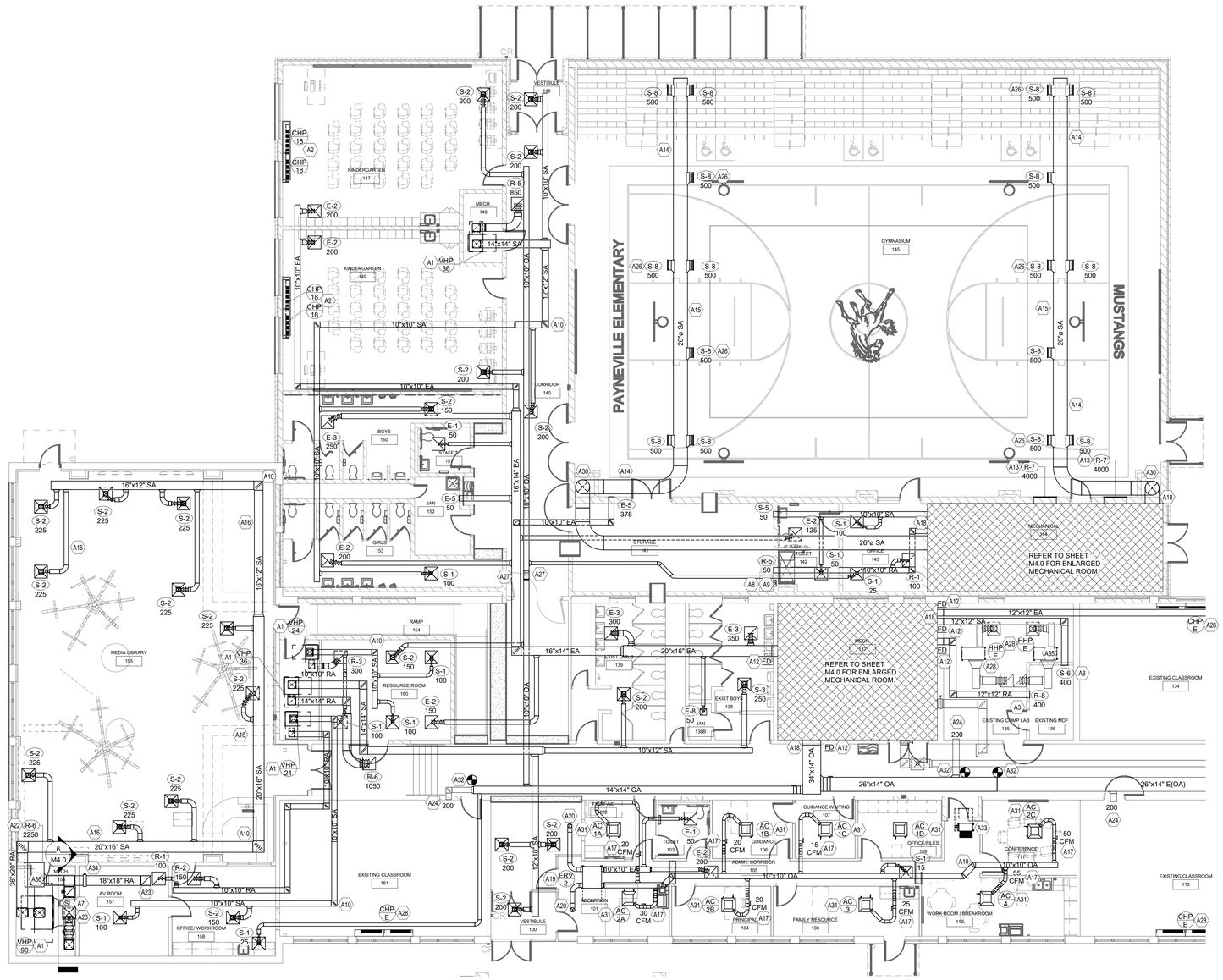

1 PARTIAL FIRST FLOOR PLAN - AREA 'A' - AIR DISTRIBUTION

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

0 2' 4' 8' 16' 24' 32' 1/8" = 1'-0"

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TAGGED NOTES

A1	INSTALL VERTICAL HEAT PUMP SIZED AS INDICATED. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ENSURE THAT CLEARANCE IS FREE FROM OBSTRUCTIONS BY OTHER BUILDING SYSTEMS. REFER TO HEAT PUMP DETAILS FOR ADDITIONAL INSTALLATION INFORMATION. TYPICAL OF ALL UNITS.
A2	INSTALL NEW CONSOLE HEAT PUMP SIZED AS INDICATED. MANIFOLD TWO CONSOLE HEAT PUMPS SIDE-BY-SIDE. PIPE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ENSURE THAT CLEARANCE IS FREE FROM OBSTRUCTIONS BY OTHER BUILDING SYSTEMS. REFER TO HEAT PUMP DETAILS FOR ADDITIONAL INSTALLATION INFORMATION. TYPICAL OF ALL UNITS.
A3	COORDINATE INSTALLATION OF SIDE WALL MOUNTED GRILLE WITH ELECTRICAL/COMMUNICATIONS EQUIPMENT.
A7	INSTALL DUCT MOUNTED SMOKE DETECTOR. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. COVER DETECTOR HOUSING WITH IMPACT RESISTANT COVER. INSTALL DETECTER BETWEEN LAST RETURN RUNOUT AND UNIT. INSTALL DETECTOR SUCH THAT IT IS ACCESSIBLE ABOVE CEILING.
A8	PROVIDE RECESSED DRYER VENT CONNECTION (DRYERBOX OR EQUAL). ROUTE DRYER VENT DUCTWORK WITHIN WALL. PROVIDE ACCESSIBLE CLEANOUTS IN DRYER EXHAUST DUCTWORK AT ALL CHANGES IN DIRECTION.
A9	4" DIAMETER DRYER EXHAUST DUCT. ROUTE DUCT FROM DRYERBOX EXHAUST AS SHOWN AND TERMINATE WITH MANUFACTURER'S WALL CAP. PROVIDE ACCESSIBLE CLEANOUTS IN DRYER EXHAUST DUCTWORK AT ALL CHANGES IN DIRECTION.
A10	FURNISH AND INSTALL TURNING VANES ON ALL TEES AND ELBOWS. PROVIDE 45 DEGREE TURNING VANES IN 45 DEGREE ELBOWS. (TYPICAL)
A12	FURNISH AND INSTALL VERTICAL FIRE DAMPER AND DUCT ACCESS DOOR. INSTALL AND SEAL ACCORDING TO MANUFACTURER'S UL LISTING.
A13	CONNECT RETURN GRILLE TO 42X30 RETURN AIR PLENUM IN MECHANICAL ROOM. REFER TO MECHANICAL ROOM PLAN ON SHEET M4.0 FOR CONTINUATION.
A14	ALL EXPOSED DUCTWORK IN GYMNASIUM TO BE DOUBLE WALLED SPIRAL DUCTWORK. PAINT DUCTWORK. ARCHITECT TO SELECT COLOR.
A15	SLOPE DUCTWORK UP AS NECESSARY TO MATCH SLOPE OF GYMNASIUM ROOF. ROUTE DUCTWORK WITHIN JOIST SPACE. PAINT GYMNASIUM DUCTWORK. ARCHITECT TO SELECT COLOR.
A16	ALL FLEXIBLE AND HARD DUCTWORK AND INSULATION ABOVE MEDIA CENTER CEILING TO BE PAINTED BLACK.
A17	PROVIDE VOLUME DAMPER IN LOCATION INDICATED. INSTALL OVER LAY-IN CEILING TO ENSURE ACCESS TO DAMPER.
A18	REFER TO ENLARGED MECHANICAL ROOM VIEW ON SHEET M4.0 FOR DUCTWORK CONTINUATION.
A19	FURNISH AND INSTALL NEW ENERGY RECOVERY VENTILATION UNIT ABOVE CEILING. INSTALL WITH MANUFACTURER'S HANGING KIT AND PER MANUFACTURER'S INSTRUCTIONS. MAINTAIN ALL NECESSARY CLEARANCES.
A20	ROUTE 8" ROUND DUCTWORK UP THROUGH ROOF AND TERMINATE WITH GOOSENECK. FLASH AND SEAL ROOF AROUND DUCT PENETRATION. REFER TO GOOSENECK DETAIL FOR ADDITIONAL INFORMATION.
A22	INSTALL NEW RETURN GRILLE IN MEDIA CENTER WALL. COORDINATE EXACT HEIGHT OF RETURN GRILLE WITH ARCHITECT.
A23	RELIEF/INTAKE AIR DUCTWORK UP TO NEW HOOD ON ROOF. REFER TO SECTION ON SHEET M4.0 FOR ADDITIONAL ECONOMIZER DUCTWORK INFORMATION.
A24	REBALANCE EXISTING OUTSIDE AIR SIDEWALL DIFFUSER TO CFM INDICATED. TYPICAL.
A26	INSTALL RECTANGULAR TAP TO ROUND DUCTWORK POINTING DOWNWARD AT 45 DEGREE ANGLE. TYPICAL OF ALL GYMNASIUM GRILLES. PAINT DUCTWORK AND GRILLES. ARCHITECT TO SELECT COLOR.
A27	ROUTE DUCT DOWN AS NECESSARY TO REMAIN BELOW LOWER ROOF LEVEL.
A28	FURNISH AND INSTALL BI-POLAR IONIZATION DEVICE ON EXISTING HEAT PUMP UNIT. THIS DEVICE SHALL BE PLASMA AIR MODEL PA-600 (OR EQUAL).
A30	ROUTE DOUBLE WALL SPIRAL DUCTWORK UP IN NEW ARCHITECTURAL DUCTWORK CHASE TO HIGH AS POSSIBLE IN GYM.
A31	INSTALL NEW CEILING CONSOLE VRF UNIT. MAKE ALL CONNECTIONS AND SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.
A32	CONNECT NEW DUCTWORK TO EXISTING AT LOCATION INDICATED.
A33	FURNISH AND INSTALL VARIABLE REFRIGERANT BRANCH BOX PER MANUFACTURER'S INSTRUCTIONS. SUPPORT AS REQUIRED.
A34	ECONOMIZER DAMPER. INSULATE RELIEF DUCT THE SAME AS SUPPLY DUCTWORK FROM ECONOMIZER RELIEF DAMPER TO RELIEF HOOD, INCLUDING RELIEF HOOD PLENUM.
A35	REMOVE AND REINSTALL EXISTING HEAT PUMP AS REQUIRED FOR CONSTRUCTION OF NEW WALL. PROVIDE NEW DUCTWORK AND PIPING CONNECTIONS AS REQUIRED.
A36	PROVIDE PLENUM BOX FULL SIZE OF GRILLE NECK OPENING. TAP RETURN DUCT INTO SIDE OF PLENUM. INTERNALLY INSULATE PLENUM WITH FLEXIBLE ELASTOMERIC INSULATION FOR SOUND DAMPENING.

SHERMAN CARTER BARNHART ARCHITECTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PARTIAL FIRST FLOOR PLAN - AREA 'A' - AIR DISTRIBUTION

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M3.0A

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M4.0 DUCTWORK LAYOUT - FIRST FLOOR - AREA 'A' - AIR DISTRIBUTION
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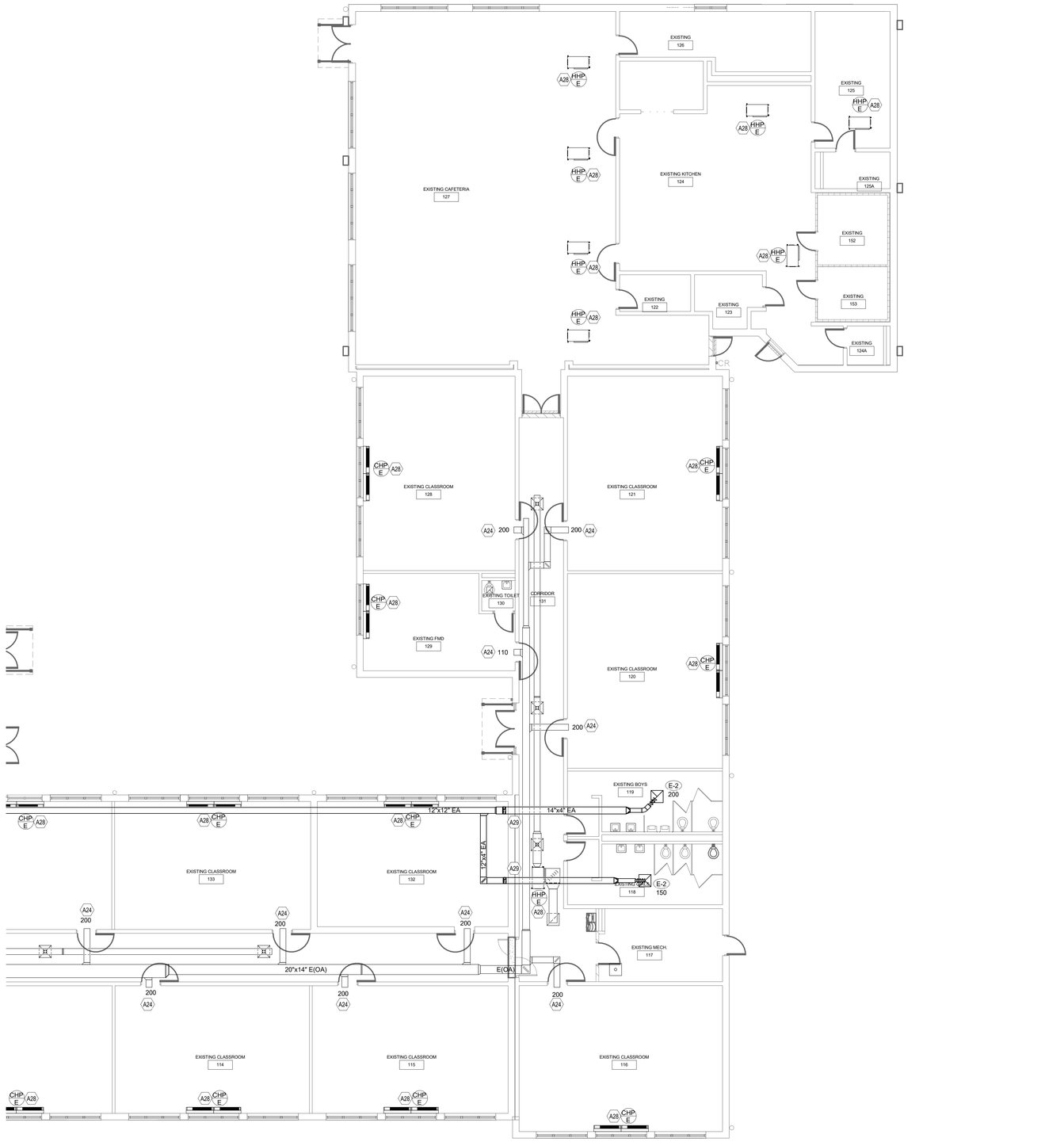

TAGGED NOTES	##
A24	REBALANCE EXISTING OUTSIDE AIR SIDEWALL DIFFUSER TO CFM INDICATED. TYPICAL.
A28	FURNISH AND INSTALL BI-POLAR IONIZATION DEVICE ON EXISTING HEAT PUMP UNIT. THIS DEVICE SHALL BE PLASMA AIR MODEL PA-600 (OR EQUAL).
A29	ROUTE EXHAUST AIR UP IN JOIST SPACE ABOVE EXISTING DUCTWORK AND EQUIPMENT.

1 PARTIAL FIRST FLOOR PLAN - AREA 'B' - AIR DISTRIBUTION

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

0 2' 4' 8' 16' 24' 32' 1/8" = 1'-0"

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SHERMAN CARTER BARNHART ARCHITECTS

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FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PARTIAL FIRST FLOOR PLAN - AREA 'B' - AIR DISTRIBUTION

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M3.0B

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
MULTIPURPOSE ROOM ADDITION AND RENOVATIONS
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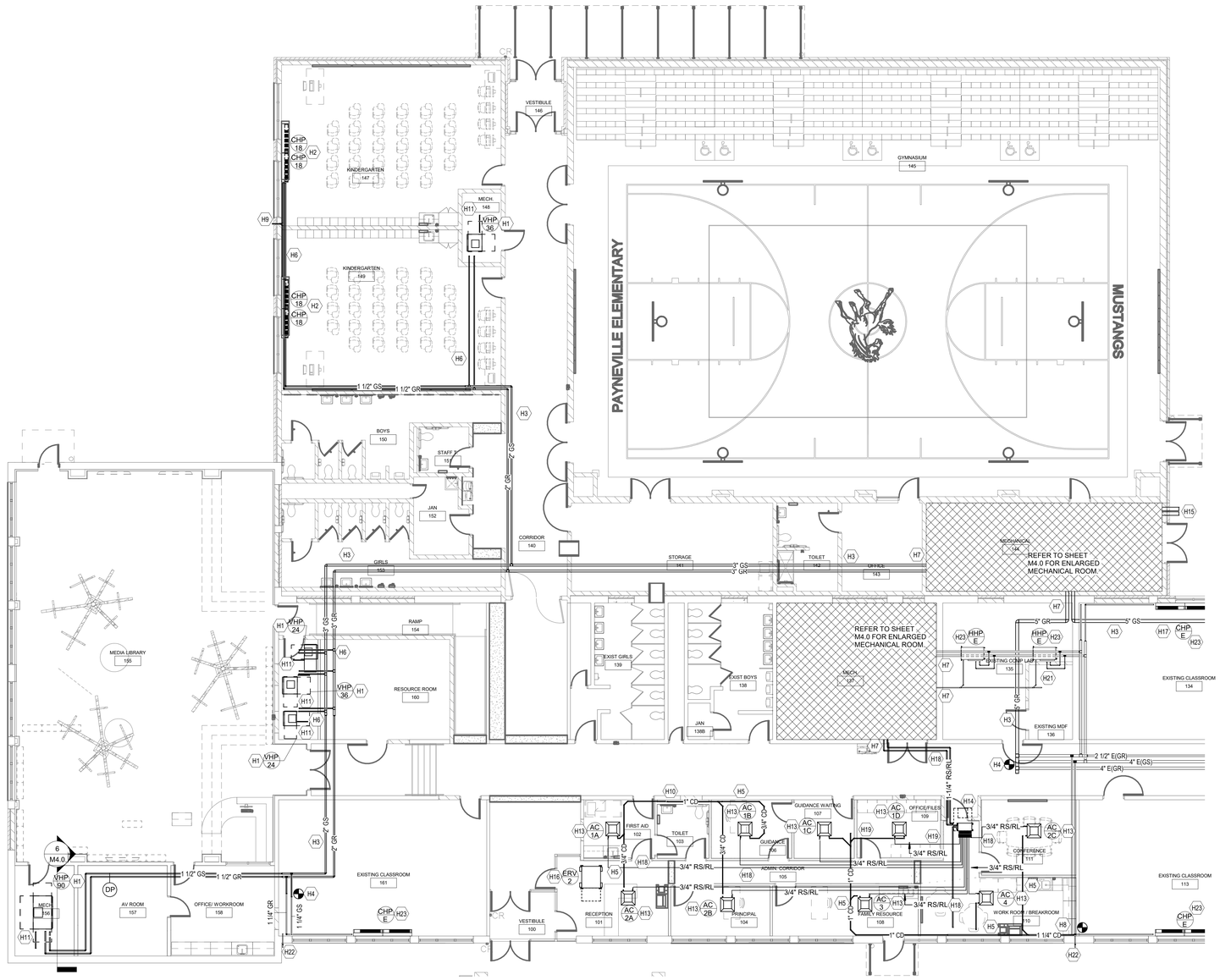

TAGGED NOTES

H1	INSTALL VERTICAL HEAT PUMP SIZED AS INDICATED. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. REFER TO HEAT PUMP DETAILS AND PIPING SCHEMATICS FOR ADDITIONAL INSTALLATION REQUIREMENTS. DO NOT ROUTE PIPING THROUGH MANUFACTURER'S CLEARANCES. TYPICAL OF ALL UNITS.
H2	INSTALL NEW CONSOLE HEAT PUMP SIZED AS INDICATED. MANIFOLD TWO CONSOLE HEAT PUMPS SIDE-BY-SIDE. PIPE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ENSURE THAT CLEARANCE IS FREE FROM OBSTRUCTIONS BY OTHER BUILDING SYSTEMS. REFER TO HEAT PUMP DETAILS FOR ADDITIONAL INSTALLATION INFORMATION. TYPICAL OF ALL UNITS.
H3	INSTALL GEOTHERMAL PIPING. INSULATE AND SUPPORT PIPING PER SPECIFICATIONS
H4	CONNECT NEW GEOTHERMAL WATER PIPING TO EXISTING GEOTHERMAL MAIN AT LOCATION INDICATED. INSULATE AND SUPPORT CONNECTION PER SPECIFICATIONS.
H5	INSTALL NEW COPPER CONDENSATE PIPING, SIZED AS INDICATED. INSULATE CONDENSATE PIPING AS SPECIFIED. PROVIDE ACCESSIBLE CLEANOUTS AT ALL CHANGES IN DIRECTION. PROVIDE SLOPE IN CONDENSATE PIPING TOWARD CONDENSATE TERMINATION.
H6	GEOTHERMAL WATER SUPPLY AND RETURN PIPING RUNOUTS TO HEAT PUMP. REFER TO RUNOUT SCHEDULE ON THIS SHEET FOR RUNOUT SIZE. TYPICAL.
H7	REFER TO ENLARGED MECHANICAL ROOM VIEW ON SHEET 4.0 FOR PIPING CONTINUATION.
H8	ROUTE CONDENSATE DOWN IN WALL AND CONNECT TO EXISTING CONDENSATE SPILLING TO EXTERIOR DRYWELL.
H9	ROUTE CONDENSATE IN FLOOR LEVEL PIPE CHASE. PENETRATE WALL AND SPILL INTO NEW EXTERIOR DRYWELL. REFER TO DRYWELL DETAIL ON SHEET M6.0 FOR ADDITIONAL INFORMATION.
H10	ROUTE CONDENSATE PIPE DOWN IN WALL AND SPILL INTO NEW HUB DRAIN AT SINK.
H11	ROUTE CONDENSATE PIPING, SIZED AS INDICATED ON HEAT PUMP PIPING RUNOUT SCHEDULE, TO NEAREST FLOOR DRAIN. WHERE PIPING CREATES A TRIP HAZARD, COVER WITH PLASTIC TRIP PROTECTION COVER. PAINTED YELLOW.
H13	INSTALL NEW CEILING CONSOLE VRF UNIT. MAKE ALL CONNECTIONS AND SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.
H14	INSTALL NEW VRF BRANCH BOX UNIT. MAKE ALL CONNECTIONS AND SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.
H15	6" GEOTHERMAL SUPPLY AND RETURN. REFER TO SITE PLAN ON SHEET LM1.0 AND PIPING SCHEMATIC ON SHEET M5.0 FOR ADDITIONAL INFORMATION. REFER TO SHEET M4.0 FOR CONTINUATION IN MECHANICAL ROOM.
H16	FURNISH AND INSTALL NEW ENERGY RECOVERY VENTILATION UNIT ABOVE CEILING. INSTALL WITH MANUFACTURER'S HANGING KIT AND PER MANUFACTURER'S INSTRUCTIONS. MAINTAIN ALL NECESSARY CLEARANCES.
H17	REFER TO SHEET M3.1B FOR PIPING CONTINUATION.
H18	ROUTE REFRIGERANT PIPING TO EQUIPMENT. INSTALL, INSULATE, AND SUPPORT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
H19	FIRE CAULK AND SEAL ALL ABOVE CEILING PIPING PENETRATIONS IN RATED WALL.
H21	REMOVE AND REINSTALL GS/GR AND CONDENSATE PIPING AS REQUIRED TO PREVENT INTERFERENCE WITH NEW WALL CONSTRUCTION AND NEW MDF ROOM SIZE.
H22	REMOVE AND INSTALL NEW THROUGH WALL CONDENSATE PIPING TERMINATING IN NEW CONDENSATE DRYWELL. REFER TO DRYWELL DETAIL ON SHEET M6.0 FOR ADDITIONAL INFORMATION.
H23	DEMOLISH EXISTING VENTURI BALANCING VALVE AND REWORK PIPING TO PROVIDE AUTOMATIC FLOW CONTROL VALVES WHICH SHALL BE FACTORY SET TO RATED FLOW AND SHALL AUTOMATICALLY CONTROL THE FLOW TO WITHIN 10% OF THE RATED VALUE SUBJECT TO THE OPERATING PARAMETERS OF 2-80 PSID, FLUID FREEZING TO 225°F, 2-7 FPS. ALSO PROVIDE A THREE-WIRE, TWO-WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. ACTUATOR SHALL BE FIELD INSTALLED BY THE TCC AND INTERFACED WITH EXISTING EQUIPMENT CONTROLLER. TYPICAL OF ALL EXISTING HEAT PUMPS.

HEAT PUMP PIPING RUNOUT SCHEDULE

HP SIZE	CWS SIZE	CWR SIZE	CD SIZE
CHP-18	1-1/4"	1-1/4"	3/4"
VHP-24	1-1/4"	1-1/4"	3/4"
VHP-36	1-1/4"	1-1/4"	3/4"
VHP-90	2"	2"	3/4"
VHP-180	2-1/2"	2-1/2"	1"

1 PARTIAL FIRST FLOOR PLAN - AREA 'A' - HYDRONICS

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

0 2' 4' 8' 16' 24' 32' 1/8" = 1'-0"

BLDG NORTH

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PARTIAL FIRST FLOOR PLAN - AREA 'A' - HYDRONICS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M3.1A

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M3.1A - HVAC - FIRST FLOOR PLAN - AREA 'A' - HYDRONICS
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7/19/2019 11:57:35 AM

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FINAL DOCUMENTS

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Consulting Mechanical Electrical Plumbing Engineers
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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

PARTIAL FIRST FLOOR PLAN - AREA 'B' - HYDRONICS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

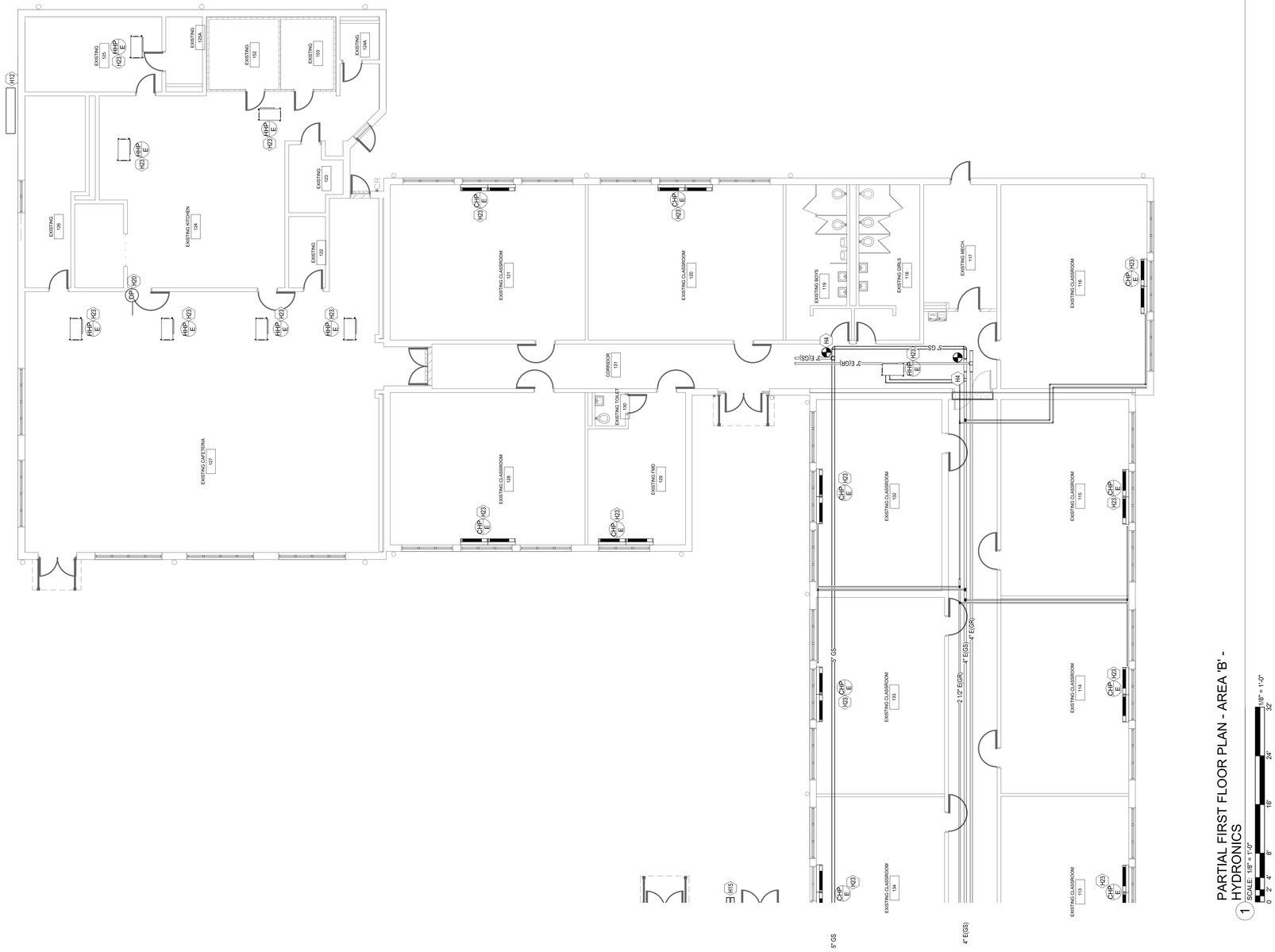
REVISIONS

No.	Description	Date

SHEET **M3.1B**

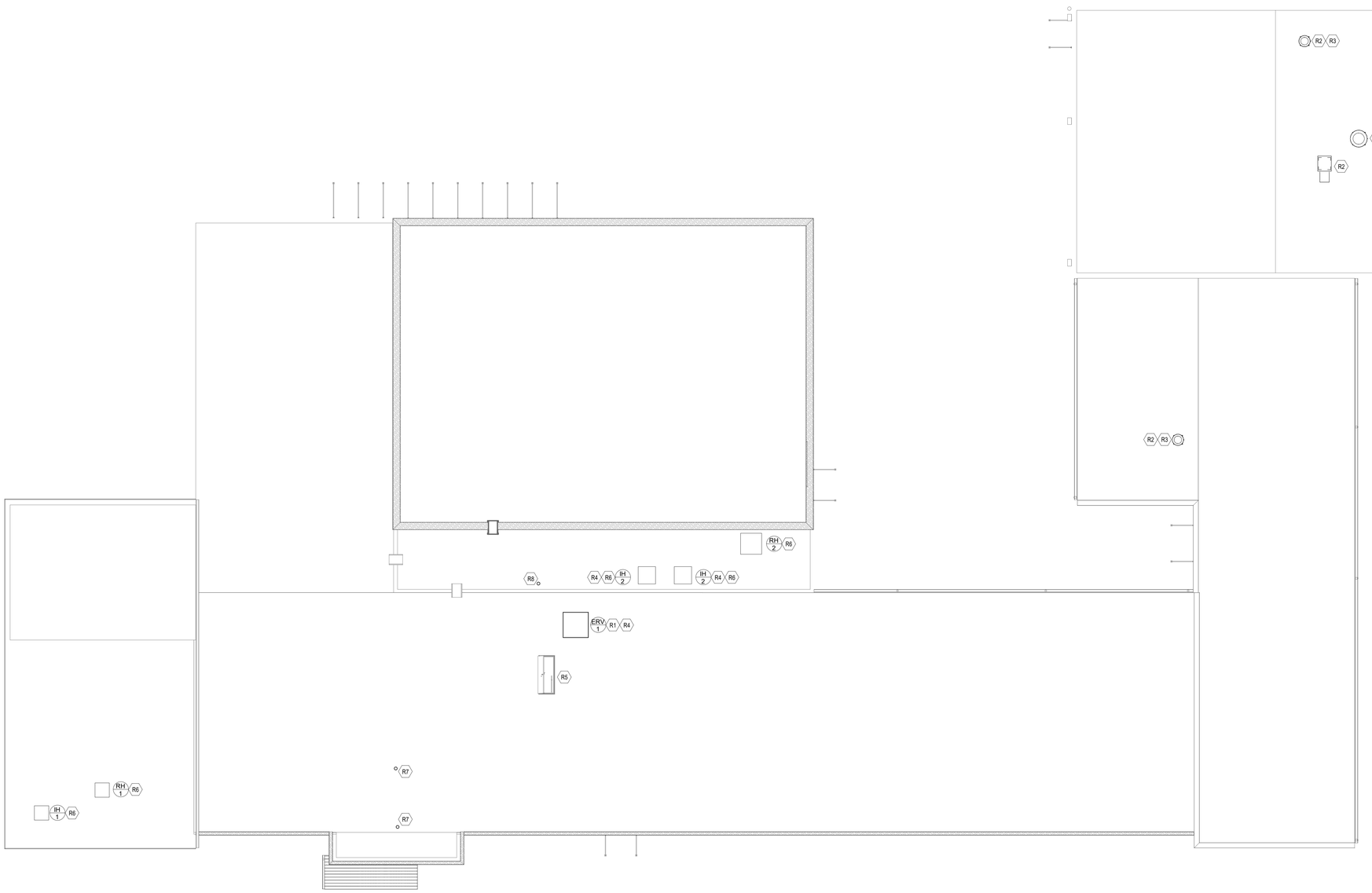
TAGGED NOTES

#	
H4	CONNECT NEW GEOTHERMAL WATER PIPING TO EXISTING GEOTHERMAL MAIN AT LOCATION INDICATED. INSULATE AND CONNECT TO NEW GEOTHERMAL HEAT PUMP AS SHOWN.
H12	REMOVE ALL REFRIGERANT FROM EXISTING CONDENSERS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE NEW CONCRETE PAD ON REVISED GRADE. REWORK REFRIGERANT PIPING TO ACCOMMODATE ELEVATION CHANGE. RECHARGE REFRIGERANT TO REQUIRED LEVELS.
H15	6" GEOTHERMAL SUPPLY AND RETURN. REFER TO SITE PLAN ON SHEET M4.0 FOR PIPING SCHEDULE. CONNECT TO MAIN. REFER TO SHEET M4.01 FOR ADDITIONAL INFORMATION. REFER TO SHEET M4.01 FOR CONTINUATION IN MECHANICAL ROOM.
H20	INSTALL NEW DIFFERENTIAL PRESSURE SENSOR IN EXISTING PIPING. REFER TO DETAIL ON SHEET M4.0. VERIFY EXACT LOCATION OF PIPING IN FIELD.
H23	DEMOLISH EXISTING VENTURI BALANCING VALVE AND CONSTANT FLOW CONTROL. PROVIDE AUTOMATIC FLOW CONTROL VALVES WHICH SHALL BE FACTORY SET TO RATED FLOW AND SHALL AUTOMATICALLY CONTROL THE FLOW TO WITHIN 10% OF THE RATED VALUE SUBJECT TO THE OPERATING PARAMETERS OF 2-80 PSID, FLUID FREEZING TO 225°F, 2-7 TYPICAL ADJUSTMENT RANGE WITH TWO TURNS. PROVIDE TWO-POSITION CONTROL VALVE WITH ACTUATOR. ACTUATOR SHALL BE FIELD INSTALLED BY THE TCC AND INTERFACED WITH EXISTING EQUIPMENT CONTROLLER. TYPICAL OF ALL EXISTING HEAT PUMPS.



1 PARTIAL FIRST FLOOR PLAN - AREA 'B' - HYDRONICS
SCALE: 1/8" = 1'-0"

TAGGED NOTES	##
R1	FURNISH AND INSTALL ENERGY RECOVERY UNIT. UNIT TO BE INSTALLED LEVEL ACROSS THE TOP OF THE ROOF CURB. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO ENERGY RECOVERY UNIT SCHEDULE FOR CURB HEIGHT REQUIREMENTS.
R2	REINSTALL EXISTING EQUIPMENT ON NEW CURB. CURB SHALL MAINTAIN EXISTING EQUIPMENT ELEVATION OFF OF ROOF SURFACE. COORDINATE NEW ROOF CURB HEIGHT WITH NEW ROOF INSULATION THICKNESS. VERIFY EXISTING CURB SIZE PRIOR TO ORDERING.
R4	NO PLUMBING VENTS OR EXHAUST OUTLETS (FANS) TO BE LOCATED WITHIN 10 FEET OF UNIT INTAKE. TYPICAL OF ALL OUTSIDE AIR INTAKES. EXTEND EXISTING VENTS AS NECESSARY TO MAINTAIN CLEARANCE.
R5	ROOF ACCESS HATCH.
R6	FURNISH AND INSTALL NEW INTAKE/RELIEF HOOD. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO HOOD SCHEDULE FOR SIZING INFORMATION.
R7	ERV-2 INTAKE/EXHAUST DUCTWORK. PENETRATE ROOF AND TERMINATE WITH GOOSENECK. MAINTAIN 10'-0" MINIMUM BETWEEN DUCTS.
R8	4" DRYER EXHAUST VENT. TERMINATE ABOVE ROOF WITH ROOF CURB PER MANUFACTURER'S RECOMMENDATIONS.



1 ROOF PLAN - MECHANICAL

SCALE: 3/32" = 1'-0"

0 4' 8' 16' 32' 48' 64' 1/16" = 1'-0"

BLDG NORTH

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M3.2 ROOF PLAN - MECHANICAL
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COMMONWEALTH OF KENTUCKY
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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ROOF PLAN - MECHANICAL

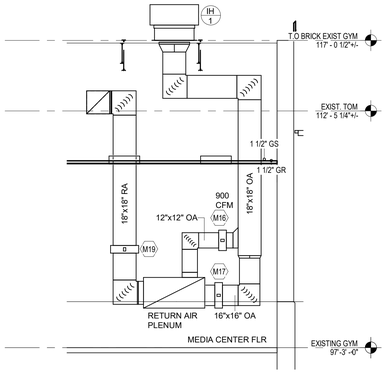
JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

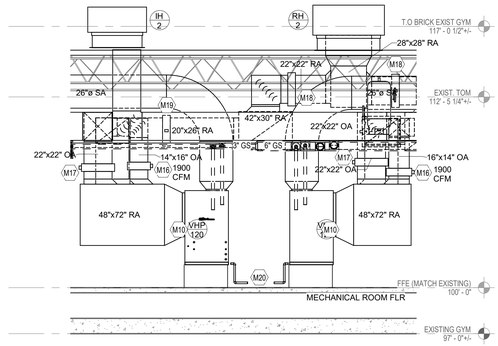
M3.2



6 MECHANICAL SECTION - MEDIA CENTER

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

0 1' 2' 4' 8' 12' 16' 1/4" = 1'-0"



5 MECHANICAL SECTION - MECHANICAL 144

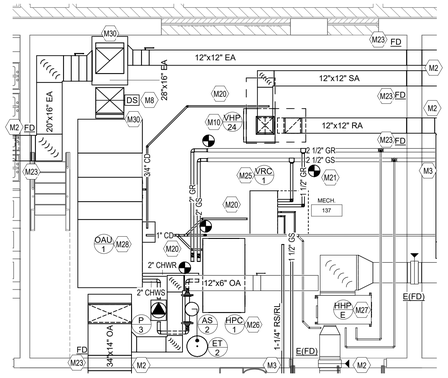
SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8' 12' 16' 1/4" = 1'-0"

4 ENLARGED PUMP HOUSE

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

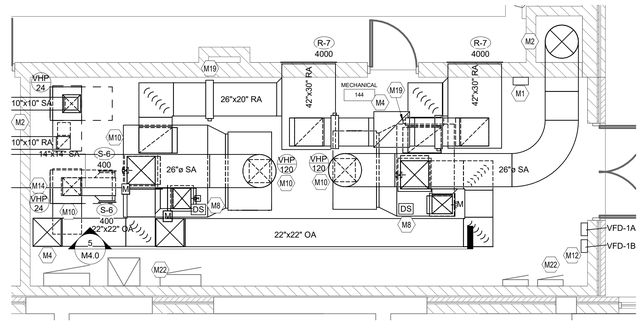
0 1' 2' 4' 8' 12' 16' 1/4" = 1'-0"



3 ENLARGED MECHANICAL ROOM 137

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

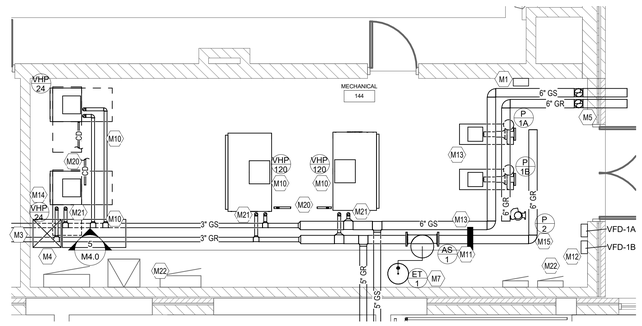
0 1' 2' 4' 8' 12' 16' 1/4" = 1'-0"



1 ENLARGED MECHANICAL ROOM 144 - AIR DISTRIBUTION

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

0 1' 2' 4' 8' 12' 16' 1/4" = 1'-0"



2 ENLARGED MECHANICAL ROOM 144 - HYDRONICS

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

0 1' 2' 4' 8' 12' 16' 1/4" = 1'-0"

TAGGED NOTES

M1	MAIN DIGITAL CONTROL PANEL. ELECTRICAL CONTRACTOR TO PROVIDE POWER AND DATA DROP.
M2	REFER TO SHEET M3.0A FOR CONTINUATION OF DUCTWORK.
M3	REFER TO SHEET M3.1A FOR CONTINUATION OF PIPING.
M4	RELIEF/INTAKE AIR DUCTWORK UP TO NEW HOOD ON ROOF.
M5	ROUTE NEW GEOTHERMAL SUPPLY AND RETURN DOWN WALL AND UNDERGROUND. REFER TO SITE PLAN ON SHEET LM1.0 AND PIPING SCHEMATIC ON SHEET M5.0 FOR ADDITIONAL INFORMATION.
M7	INSTALL EXPANSION TANK ON 4" THICK HOUSEKEEPING PAD. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. REFER TO PIPING SCHEMATICS ON SHEET M6.0 AND M6.1 FOR ADDITIONAL INFORMATION.
M8	INSTALL DUCT MOUNTED SMOKE DETECTOR. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. COVER DETECTOR HOUSING WITH IMPACT RESISTANT COVER. INSTALL DETECTER BETWEEN LAST RETURN RUNOUT AND UNIT. INSTALL DETECTOR SUCH THAT IT IS ACCESSIBLE ABOVE CEILING.
M10	INSTALL NEW VERTICAL HEAT PUMP. MOUNT ON 18" TALL STAND. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO HEAT PUMP DETAILS FOR ADDITIONAL INFORMATION. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE (TYPICAL).
M11	INSTALL INLINE AIR SEPARATOR AS HIGH AS POSSIBLE. REFER TO SCHEMATIC SHEET FOR CONNECTION INFORMATION.
M12	SECURE PUMP VFD'S TO EXTERIOR WALL. MAINTAIN 24" BETWEEN DRIVES.
M13	PROVIDE 4" THICK CONCRETE PAD UNDER EQUIPMENT.
M14	24x24 OPEN RETURN FILTER OPENING. PROVIDE 1/2"x1/2" WIRE MESH OVER OPENING.
M15	PROVIDE PUMP PIPE PEDESTAL SUPPORT FOR PUMP. LOCATE AT FLOOR AND ORIENT PUMP MOUNTED VFD IN A SERVICABLE ORIENTATION.
M16	MINIMUM OUTSIDE AIR DAMPER. CONTROLS CONTRACTOR TO ADJUST DAMPER TO OBTAIN MINIMUM VENTILATION AIRFLOW INDICATED. EXTEND OA DUCT INTO HEAT PUMP RA DUCT OR PLENUM.
M17	ECONOMIZER OUTSIDE AIR DAMPER (NORMALLY CLOSED). EXTEND OA DUCT INTO HEAT PUMP RA DUCT OR PLENUM.
M18	ECONOMIZER DAMPER. INSULATE RELIEF DUCT THE SAME AS SUPPLY DUCTWORK FROM ECONOMIZER RELIEF DAMPER TO RELIEF HOOD, INCLUDING RELIEF HOOD PLENUM.
M19	ECONOMIZER RETURN DAMPER (NORMALLY OPEN).
M20	ROUTE CONDENSATE PIPING, SIZED AS INDICATED ON HEAT PUMP PIPING RUNOUT SCHEDULE, TO NEAREST FLOOR DRAIN. WHERE PIPING CREATES A TRIP HAZARD, COVER WITH PLASTIC TRIP PROTECTION COVER, PAINTED YELLOW.
M21	2"X2" UNISTRUT FRAME TO SUPPORT PIPING (TYPICAL)
M22	ELECTRICAL PANELS AND TRANSFORMER.
M23	FURNISH AND INSTALL VERTICAL FIRE DAMPER AND DUCT ACCESS DOOR. INSTALL AND SEAL ACCORDING TO MANUFACTURER'S UL LISTING.
M25	FURNISH AND INSTALL NEW VARIABLE REFRIGERANT WATER COOLED CONDENSING UNIT ON NEW CONCRETE HOUSEKEEPING PAD. REFER TO SCHEMATIC FOR ADDITIONAL INFORMATION.
M26	FURNISH AND INSTALL NEW HEAT PUMP CHILLER UNIT ON NEW CONCRETE HOUSEKEEPING PAD.. REFER TO SCHEMATIC FOR ADDITIONAL INFORMATION.
M27	FURNISH AND INSTALL BI-POLAR IONIZATION DEVICE ON EXISTING HEAT PUMP UNIT. THIS DEVICE SHALL BE PLASMA AIR MODEL PA-600 (OR EQUAL). DEMOLISH EXISTING VENTURI BALANCING VALVE AND REWORK PIPING TO PROVIDE AUTOMATIC FLOW CONTROL VALVES WHICH SHALL BE FACTORY SET TO RATED FLOW AND SHALL AUTOMATICALLY CONTROL THE FLOW TO WITHIN 10% OF THE RATED VALUE SUBJECT TO THE OPERATING PARAMETERS OF 2-80 PSID, FLUID FREEZING TO 225°F, 2-7 FPS. ALSO PROVIDE A THREE-WIRE, TWO-WAY, TWO-POSITION CONTROL VALVE WITH ACTUATOR. ACTUATOR SHALL BE FIELD INSTALLED BY THE TCC AND INTERFACED WITH EXISTING EQUIPMENT CONTROLLER.
M28	INSTALL NEW OUTSIDE AIR UNIT PER MANUFACTURER'S INSTRUCTIONS. EQUIPMENT SHALL BE INSTALLED ON NEW CONCRETE PAD. DO NOT COVER FLOOR DRAIN WITH CONCRETE PAD.
M30	OUTSIDE AIR AND EXHAUST AIR DUCTWORK UP TO ENERGY RECOVERY UNIT ON ROOF. TRANSITION FROM DUCT SIZE SHOWN ON DRAWINGS TO UNIT OPENING WITHIN ROOF CURB.
M31	FURNISH AND INSTALL WALL MOUNTED UNIT HEATER. PROVIDE HEATER WITH INTEGRAL THERMOSTAT. HEATER SHALL ENABLE WHEN TEMPERATURE IS BELOW 55 DEG F.
M32	SUPPORT DUCTWORK FROM STRUCTURE ABOVE AND TERMINATE AT WALL EXTERIOR WITH 20X20 RUSKIN ELF6375DX DRAINABLE LOUVER. MOUNT HIGH AS POSSIBLE. PROVIDE INTERIOR DUCT TERMINATION WITH 1/2" BIRD SCREEN. PROVIDE MOTORIZED DAMPER. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN OPERATION. DAMPER SHALL BE OPEN WHEN FAN IS "ON". COORDINATE INSTALLATION WITH NEW PUMP AND ELECTRICAL EQUIPMENT.
M33	PROVIDE WALL MOUNTED EXHAUST FAN. INSTALL AND SUPPORT PER MANUFACTURER'S INSTRUCTIONS. MOUNT HIGH AS POSSIBLE. INTERLOCK EXHAUST FAN WITH WALL MOUNTED THERMOSTAT. EXHAUST FAN SHALL ACTIVATE WHEN SPACE TEMPERATURE IS ABOVE 95 DEG F (ADJ). COORDINATE INSTALLATION WITH PUMP, PIPING, AND ELECTRICAL SERVICES.
M34	PROVIDE WALL MOUNTED THERMOSTAT. INTERLOCK WITH EXHAUST FAN AND MOTORIZED DAMPER AS INDICATED.

HEAT PUMP PIPING RUNOUT SCHEDULE

HP SIZE	CWS SIZE	CWR SIZE	CD SIZE
CHP-18	1-1/4"	1-1/4"	3/4"
VHP-24	1-1/4"	1-1/4"	3/4"
VHP-36	1-1/4"	1-1/4"	3/4"
VHP-90	2"	2"	3/4"
VHP-180	2-1/2"	2-1/2"	1"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION

PAYNEVILLE, KY

ENLARGED MECHANICAL ROOMS AND SECTIONS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M4.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M4.0 ENLARGED MECHANICAL ROOMS AND SECTIONS
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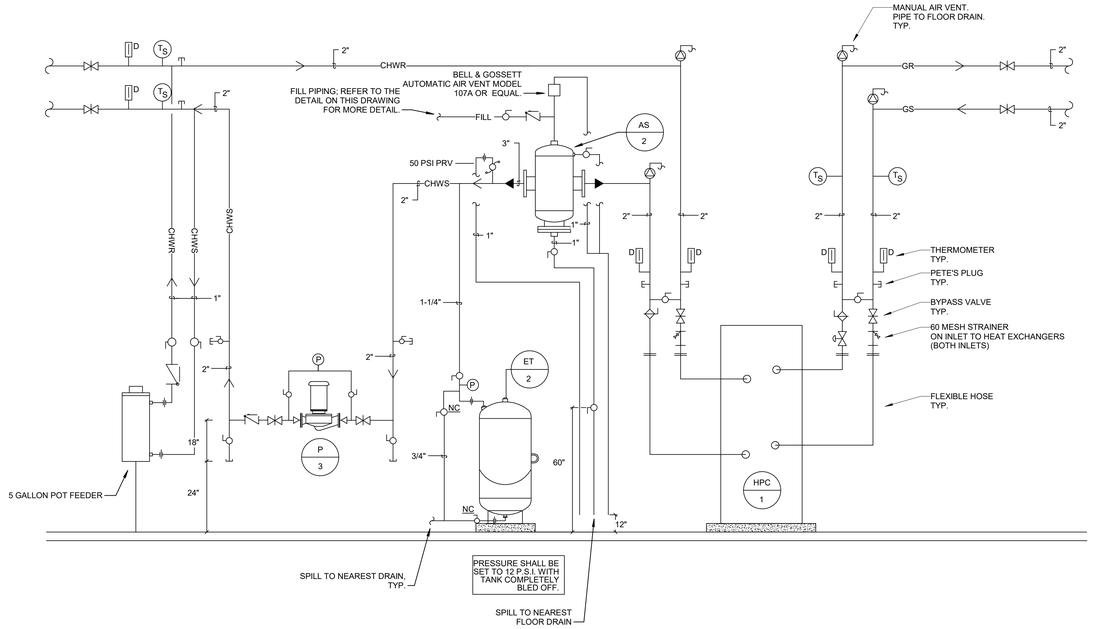
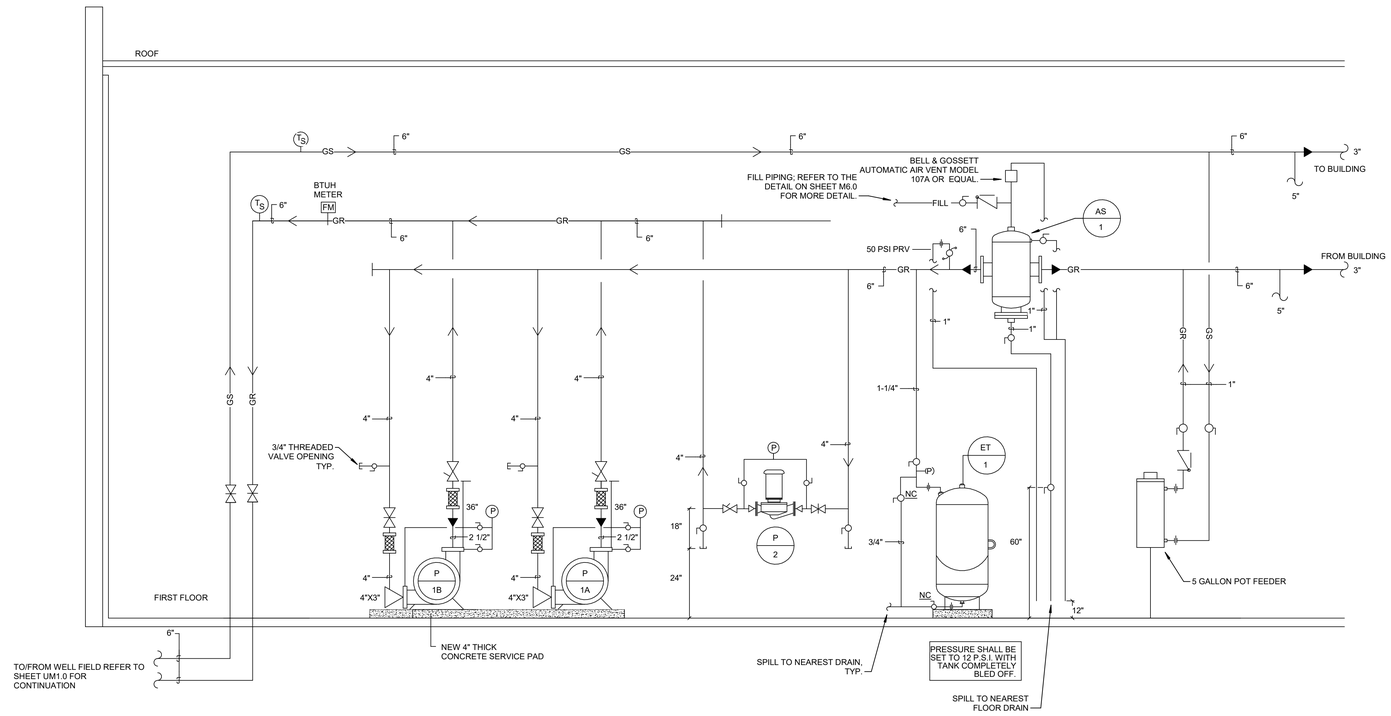


2-PIPE HYDRONIC HEAT PUMP CHILLER PIPING SCHEMATIC - MECHANICAL ROOM 137

NOT TO SCALE



GEOTHERMAL PIPING SCHEMATIC - MECHANICAL ROOM 144

NOT TO SCALE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL PIPING SCHEMATICS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M5.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
MECHANICAL PIPING SCHEMATICS
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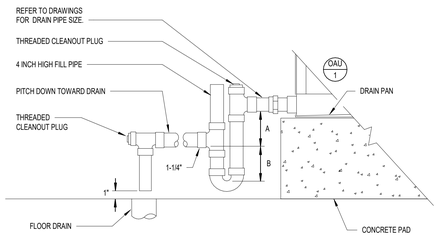
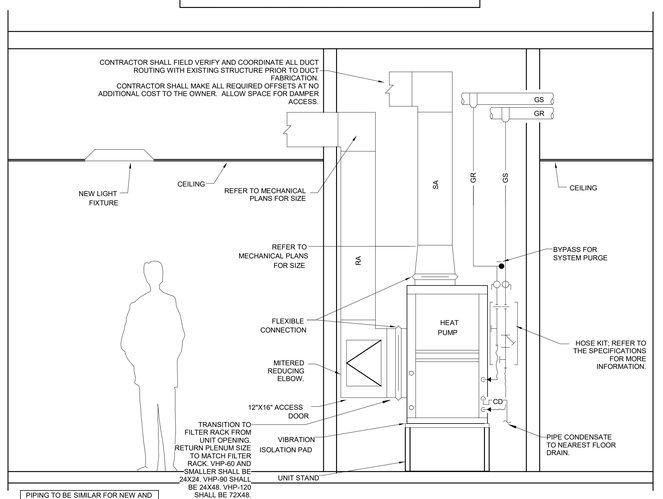


UNIT TYPE	A	B
BLOW THRU	1" MINIMUM	FAN OUTLET PRESSURE PLUS 2"

OUTSIDE AIR HANDLING UNIT DRAIN TRAP DETAIL

NOT TO SCALE

ONE MOCKUP SHALL BE REQUIRED FOR REVIEW AND APPROVAL PRIOR TO PERMANENT INSTALLATION OF ANY UNITS.



PIPING TO BE SIMILAR FOR NEW AND EXISTING CONSOLE HEAT PUMPS AND EXISTING HORIZONTAL HEAT PUMPS.

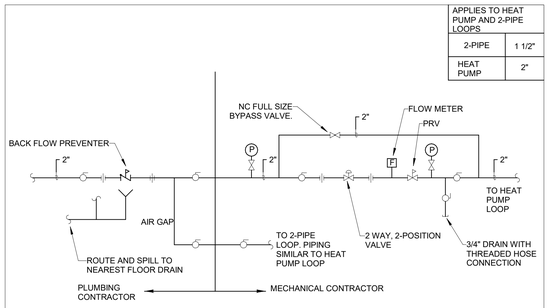
VERTICAL WSHP INSTALLATION DETAIL

NTS

HEAT PUMP PIPING RUNOUT SCHEDULE

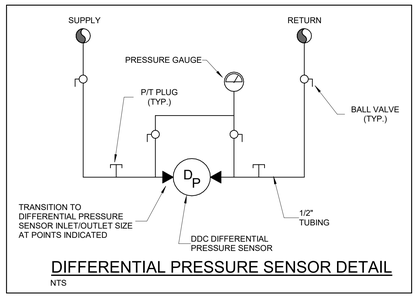
HP SIZE	CWS SIZE	CWR SIZE	CD SIZE
CHP-18	1-1/4"	1-1/4"	3/4"
VHP-24	1-1/4"	1-1/4"	3/4"
VHP-36	1-1/4"	1-1/4"	3/4"
VHP-90	2"	2"	3/4"
VHP-180	2-1/2"	2-1/2"	1"

APPLIES TO HEAT PUMP AND 2-PIPE LOOPS	
2-PIPE	1 1/2"
HEAT PUMP	2"



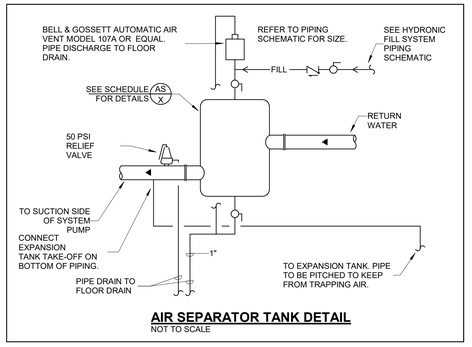
HYDRONIC FILL SYSTEM - PIPING DETAIL

NTS



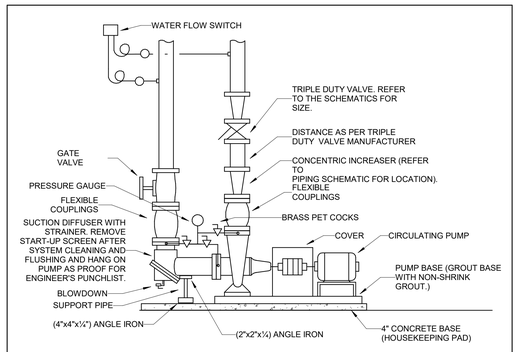
DIFFERENTIAL PRESSURE SENSOR DETAIL

NTS



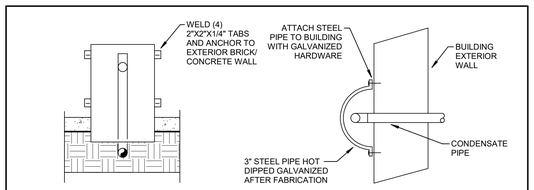
AIR SEPARATOR TANK DETAIL

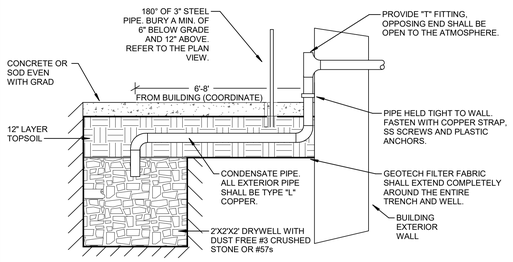
NOT TO SCALE



BASE MOUNTED PUMP PIPING DETAIL

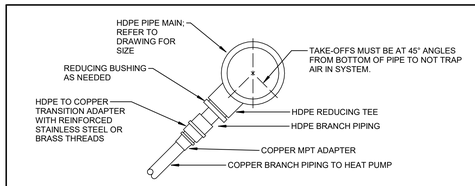
NOT TO SCALE





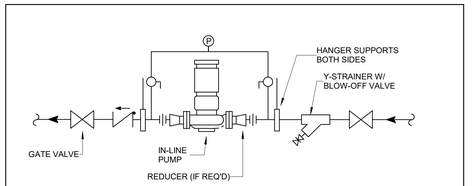
CONDENSATE DRYWELL DETAIL

NTS



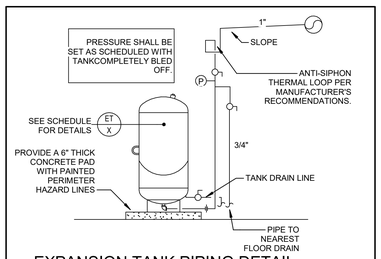
GEOTHERMAL PIPING TAP DETAIL

NTS



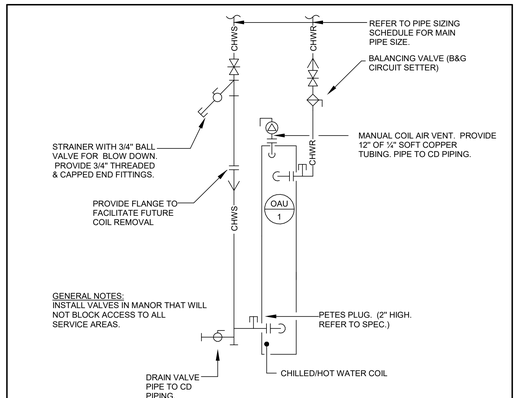
VERTICAL IN-LINE PUMP DETAIL

NTS



EXPANSION TANK PIPING DETAIL

NTS



OAU-1 CHILLED/HOT WATER COIL PIPING DETAIL

NOT TO SCALE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM EPPS, JR.
PE-19127
LICENSED PROFESSIONAL ENGINEER

CMTA
1501 Woodhay Street, Prospect, Kentucky 40059
502.292.9464 FAX 292.9467 www.cmtadesign.com

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M6.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
MECHANICAL DETAILS
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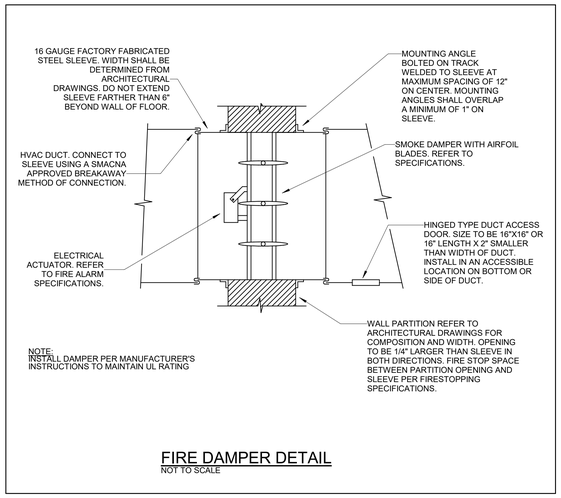
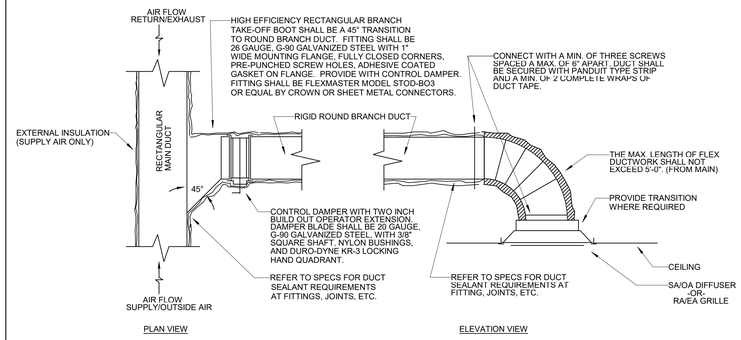
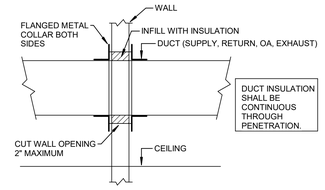


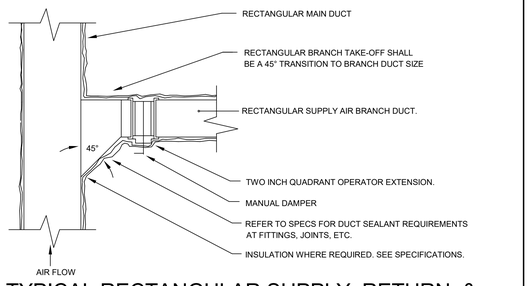
FIRE DAMPER DETAIL
NOT TO SCALE



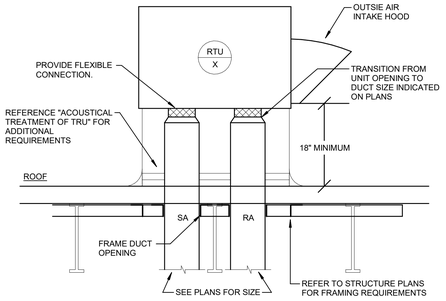
TYPICAL RECTANGULAR-TO-ROUND BRANCH DUCT DETAIL
NTS



DUCT PENETRATION THROUGH NON-RATED WALL DETAIL
NTS

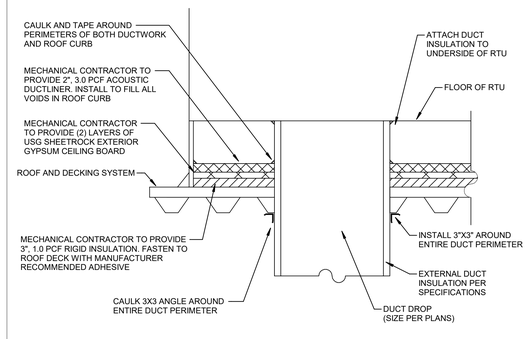


TYPICAL RECTANGULAR SUPPLY, RETURN, & EXHAUST BRANCH DUCT TAKE OFF
NTS

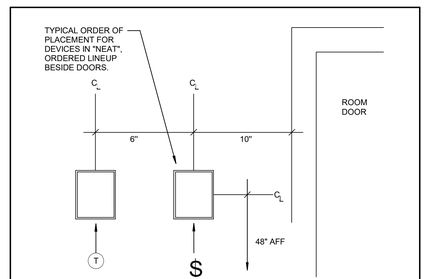


ROOF TOP UNIT INSTALLATION DETAIL
NTS

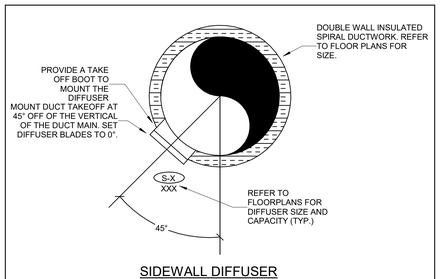
CONTRACTOR SHALL TAKE DIGITAL PHOTOGRAPHS DURING INSTALLATION FOR REVIEW.



ACOUSTICAL TREATMENT OF RTU
NTS



THERMOSTAT SENSOR COORDINATION DETAIL
NOT TO SCALE



SIDEWALL DIFFUSER DUCT TAKEOFF DETAIL
NTS

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

COMMONWEALTH OF KENTUCKY
WILLIAM EPPS, JR.
PE-19127
REGISTERED PROFESSIONAL ENGINEER

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1501 Alliance Street Prospect, Kentucky 40059
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www.cmtaengineers.com

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M6.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M6.1 MECHANICAL DETAILS.DWG
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OUTSIDE AIR UNIT SCHEDULE

SYMBOL	OAU-1
MANF & MODEL	TRANE CSAA008
TYPE OF SYSTEM	100% DEDICATED OA SYSTEM
CONFIGURATION	SEE DRAWINGS
DESIGN DIMENSIONS	132"L x 51"W x 42"H
DESIGN WEIGHT	1,655 lbs
REMARKS (SEE NOTES BELOW)	ALL
FAN SECTION	
MAXIMUM CFM	3,500
TYPE / OPERATING RPM	PLENUM / 2,523
TOTAL SP / ESP	2.5" / 1" WG
HP / V / Ø / Hz	3 / 460 / 3 / 60
DRIVE	DIRECT
FACE DAMPER MAX AIRFLOW / APD	2,100 / 0.044"
BYPASS DAMPER MAX AIRFLOW / APD	1,400 / 0.109"
WATER COIL PERFORMANCE (COOLING)	
TOTAL COOLING CAP. (MBH)	100.4
SENSIBLE COOLING CAP. (MBH)	64.4
MAX. FACE VELOCITY (FT/MIN)	431
TOTAL CFM	2,100
MAX. AIR PRESSURE DROP	0.59" WG
EAT - SUMMER (DB/WB)	82.7°F / 69.6°F
LAT - SUMMER (DB/WB)	55.0°F / 54.7°F
WATER COIL PERFORMANCE (HEATING)	
TOTAL HEATING CAP. (MBH)	124.4
TOTAL CFM	2,100
MAX. AIR PRESSURE DROP	0.42" WG
ENTERING AIR TEMP	48.2°F
LEAVING AIR TEMP	102.8°F
FILTERS	
MANUFACTURER	AAF
MODEL/TYPE	30-30/DISPOSABLE
EFFICIENCY	MERV 8
VELOCITY	315
SIZE (W" x H" x D") / QTY	20x20x2 / 4
RESISTANCE (CL./MEAN.)	0.16"WG/.58"WG
APPROVED MANUFACTURERS	FARR, AFF, AND FLANDERS
UNIT ELECTRIC (SINGLE POINT POWER CONNECTION)	
VOLTS/PH/HZ	460/3/60
FLA/MCA/MOP	5.45 / 6.65 / 15

REMARKS:

1. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
2. SUPPLY STAINLESS STEEL IAQ CONDENSATE DRAIN PAN. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
3. PROVIDE STAINLESS STEEL DX WATER COIL CASING.
4. PROVIDE ROOF CURB.
5. FUSED DISCONNECT SHALL BE PROVIDED FOR SINGLE POINT POWER CONNECTION.
6. PROVIDE BACNET CARD FOR INTERFACE WITH BAS.
7. ACCEPTABLE MANUFACTURERS: DAIKIN, JCI, MCQUAY, TRANE, CARRIER, INNOVENT, AAON.

HEAT PUMP CHILLER SCHEDULE

GENERAL	
SYMBOL	HPC-1
MANUFACTURER & MODEL	TRANE EXWE 1204
SERVICE	OAU-1
DESCRIPTION	WATER SOURCE HEAT PUMP
REFRIGERANT	R-410A
COMPRESSOR	INVERTER SCROLL (2)
COOLING PERFORMANCE	
COOLING CAPACITY (MBH)	105.8
HEAT REJECTION (MBH)	131.0
EER	13.2
SOURCE GPM / WPD (FT)	30.0 / 12.2
SOURCE EWT / LWT (°F)	85 / 93.7
LOAD EWT / LWT (°F)	55 / 45.3
HEATING PERFORMANCE	
HEATING CAPACITY (MBH)	121.9
HEAT ABSORPTION (MBH)	88.7
COP	3.9
SOURCE GPM / WPD (FT)	30 / 14.5
SOURCE EWT / LWT (°F)	55 / 49.1
LOAD EWT / LWT (°F)	100 / 111
ELECTRIC	
V / PH / HZ	460 / 3 / 60
MCA / MOP PER MODULE	20.3 / 25
DISCONNECT WITH SINGLE POINT POWER	YES

REMARKS:

1. ACCEPTABLE MANUFACTURERS: DAIKIN, LG OR TRANE

EXHAUST FAN SCHEDULE

GENERAL	
SYMBOL	EF-1
MANUFACTURER	GREENHECK
MODEL	SE1-16-436-VG
SERVICE	FIRE PUMP HOUSE
TYPE	WALL MOUNTED
CFM / ESP	800 / .32
FAN BHP / HP	0.14 / 3/4
DRIVE / FAN RPM	DIRECT / 910
VOLTS / PHASE / Hz	115V / 1PH / 60
SONES	13.2
REMARKS	ALL

REMARKS:

1. PROVIDE WITH FACTORY BACKDRAFT DAMPER.
2. PROVIDE WITH FACTORY INSTALLED DISCONNECT SWITCH.
3. PROVIDE WITH OPTIONAL WALL HOUSING.
4. PROVIDE WITH MOTOR COVER.

GEOTHERMAL HEAT PUMP SCHEDULE

GENERAL					
SYMBOL	CHP-18	VHP-24	VHP-36	VHP-90	VHP-120
MANF. & MODEL	TRANE MODEL GECE0181	TRANE MODEL DXVF0243	TRANE MODEL DXVF0363	TRANE MODEL GEVE0903	TRANE MODEL GEVE1203
BOX TYPE	CONSOLE UNIT	VERTICAL UNIT	VERTICAL UNIT	VERTICAL UNIT	VERTICAL UNIT
NOMINAL CFM/ESP	530 / 0.0"	700 - 950 / 0.7"	1,000 - 1,300 / 0.7"	1,800 - 2,600 / 0.6"	2,600 - 4,000 / 1.0"
# COMPR. / # STAGES	1 / SINGLE STAGE	1 / TWO STAGE	1 / TWO STAGE	2 / TWO STAGE	2 / TWO STAGE
ECM MOTOR	NO	YES	YES	NO	YES
REFRIGERANT	410A	410A	410A	410A	410A
VOLTS/PHASE/HZ	277/1/60	460/3/60	460/3/60	460/3/60	460/3/60
MCA/MOP	10.5 / 15	6.6 / 15	10.6 / 15	17.8 / 20	24.1 / 30
REVERSE CYCLE HEATING CAPACITY -- 70°F EAT - 60°F EWT					
GPM/WPD (FT)	4.5 / 10.6	6.0 / 7.2	9.0 / 6.9	22.5 / 14.5	30 / 15.1
TOTAL HEAT (MBH)	20.5	33.2	50.9	103.2	140.3
HEAT OF ABSORPTION (MBH)	16.2	26.9	40.7	81.9	110.3
COP @ ARI	4.8	5.3	5.1	4.5	4.5
COOLING CAPACITY -- 80°F/67°F EAT - 90°F EWT					
SENSIBLE (MBH)	13.2	20.2	29.6	67.4	92.3
TOTAL (MBH)	16.5	26.2	37.9	89.7	120.0
HEAT OF REJECTION (MBH)	20.5	31.8	46.7	111.3	150.0
EER @ ARI	13.4	17.7	16.6	15.1	14.5

REMARKS:

1. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS AND THE FORMS INCLUDED IN SPECIFICATIONS.
2. UNIT SHALL BE ARI STANDARD 330 LISTED.
3. PROVIDE WITH R-410A REFRIGERANT.
4. PROVIDE FACTORY/FIELD CONTROLS, REFER TO SPECIFICATION OF CONTROLS SCOPE OF WORK.
5. HEAT PUMPS CHP-18 AND VHP-24 - VHP-90 TO BE PROVIDED WITH INTEGRAL DISCONNECT. IF MANUFACTURER CANNOT ACCOMMODATE, A DISCONNECT SHALL BE PROVIDED AS REQUIRED.
6. PROVIDE HEAT PUMP WITH CONDENSATE OVERFLOW SWITCH.
7. INSTALL DUCT SMOKE DETECTOR, PROVIDED BY ELECTRICAL CONTRACTOR, IN RETURN DUCT OF VHP-080 - VHP-120. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.
8. EQUIPMENT VENDOR IS RESPONSIBLE FOR PURCHASE AND INSTALLATION OF BI-POLAR IONIZATION DEVICE ON ALL UNITS. THIS DEVICE SHALL BE PLASMA AIR MODEL BAR-PB FOR VERTICAL UNITS 10 TONS AND LARGER AND MODEL PA-600 FOR ALL OTHERS (OR EQUAL).
9. ACCEPTABLE MANUFACTURERS: TRANE, JCI, DAIKIN, CLIMATEMASTER, FLORIDA HEAT PUMP, WATERFURNACE.

ELECTRIC UNIT HEATER SCHEDULE

GENERAL	
SYMBOL	UH-1
MANUFACTURER	MARKEL
MODEL	3320 SERIES
TYPE	FAN FORCED WALL HEATER
SIZE (WATTS)	3000
VOLTS / PHASE / Hz	277V / 1PH / 60
MCA	10.8
FINISH	--

REMARKS:

1. APPROVED MANUFACTURERS: MARKEL, REZNOR, QMARK
2. WALL HEATER WITH BUILT-IN THERMOSTAT, DISCONNECT SWITCH, THERMAL OVERHEAT PROTECTION, AND RECESSED MOUNTING FRAME.

ENERGY RECOVERY UNITS

SYMBOL	ERV-1	ERV-2
MANF. & MODEL	MICROMETL	LOSSNAY
CONFIGURATION	SEE DRAWINGS	SEE DRAWINGS
V/PHASE/Hz	460/3/60	208/1/60
SINGLE POINT MCA/MOP	9.0A / 15A	1.8A / 15A
FRESH AIR CFM / ESP	3,500 CFM @ 1.0"	300 CFM @ 0.75"
EXHAUST AIR CFM / ESP	3,200 CFM @ 0.75"	250 CFM @ 0.75"
HEATING EFFICIENCY	76% TOTAL	63% TOTAL
COOLING EFFICIENCY	72.8% TOTAL	50% TOTAL
REMARKS	1, 2, 3, 4, 5	1, 2, 3, 4, 5

REMARKS:

1. ACCEPTABLE MANUFACTURERS: RENEWAIRE, FANTECH, GREENHECK, LOSSNAY
2. PROVIDE WITH SINGLE POINT POWER CONNECTION.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH, REFER TO ELECTRICAL DRAWINGS.
4. PROVIDE ISOLATION DAMPERS IN THE AIR STREAMS.
5. REFER TO DRAWINGS FOR UNIT DUCT CONNECTION ORIENTATIONS.

INTAKE/RELIEF HOOD SCHEDULE

SYMBOL	IH-1	RH-1	IH-2	RH-2
MANUFACTURER / TYPE	GREENHECK / PENTHOUSE INTAKE	GREENHECK / PENTHOUSE RELIEF	GREENHECK / PENTHOUSE INTAKE	GREENHECK / PENTHOUSE INTAKE
MODEL	WIH-WITH ROOF CURB AND SCREEN	WRH-WITH ROOF CURB AND SCREEN	WIH-WITH ROOF CURB AND SCREEN	WRH-WITH ROOF CURB AND SCREEN
PHYSICAL SIZE	24"X24" NECK 32"X32" HOOD CURB	24"X24" NECK 32"X32" HOOD CURB	32"X32" NECK 40"X40" HOOD CURB	42"X42" NECK 56"X56" HOOD CURB
CFM	2,400 CFM	2,400 CFM	4,000 CFM	8,000 CFM
MAX THROAT VEL / PRESSURE DROP	700 FPM / 0.065"	700 FPM / 0.055"	700 FPM / 0.065"	700 FPM / 0.088"
SERVICE	INTAKE	RELIEF	INTAKE	RELIEF
MOUNTING HEIGHT	PROVIDE ROOF CURB FOR 24" CLEAR	PROVIDE ROOF CURB FOR 24" CLEAR	PROVIDE ROOF CURB FOR 24" CLEAR	PROVIDE ROOF CURB FOR 24" CLEAR

REMARKS:

1. 1/2" MESH SCREEN OVER INLET/RELIEF
2. ALL ALUMINUM CONSTRUCTION
3. ACCEPTABLE MANUFACTURERS: K-TECH, GREENHECK, CAPTIVE-AIRE OR HALTON

REGISTERS, GRILLES, AND DIFFUSERS

SYMBOL	MANUFACTUER & MODEL	MATERIAL & TYPE	CFM RANGE	INLET DUCT SIZE	FACE SIZE	NECK SIZE	REMARKS
S-1	TITUS OMNI AA	EXTRUDED ALUMINUM SQUARE PLAQUE FACE	0-100	6"ø	24X24	6"ø	1, 3, 4
S-2	TITUS OMNI AA	EXTRUDED ALUMINUM SQUARE PLAQUE FACE	101-225	8"ø	24X24	8"ø	1, 3, 4
S-3	TITUS OMNI AA	EXTRUDED ALUMINUM SQUARE PLAQUE FACE	226-375	10"ø	24X24	10"ø	1, 3, 4
S-4	TITUS OMNI AA	EXTRUDED ALUMINUM SQUARE PLAQUE FACE	376-600	12"ø	24X24	12"ø	1, 3, 4
S-5	TITUS 300FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING DOUBLE DEFLECTION	0-200	8X8	10X10	8X8	1, 3
S-6	TITUS 300FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING DOUBLE DEFLECTION	201-600	12X12	14X14	12X12	1, 3
S-7	TITUS OMNI AA	EXTRUDED ALUMINUM SQUARE PLAQUE FACE	0-100	6"ø	12X12	6"ø	1, 3, 4
S-8	TITUS 300RS	STEEL 3/4" BLADE SPACING DOUBLE DEFLECTION GYMNASIUM GRILLE	400-800	18X14	20X16	18X14	1, 3
S-9	TITUS 300RS	STEEL 3/4" BLADE SPACING DOUBLE DEFLECTION GYMNASIUM GRILLE	801-1100	24X12	26X14	24X12	1, 3
R-1	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	0-100	6"ø	24X24	8X8	1, 2, 3
R-2	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	101-225	8"ø	24X24	10X10	1, 2, 3
R-3	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	226-375	10"ø	24X24	12X12	1, 2, 3
R-4 / T-2	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	376-600	12"ø	24X24	14X14	1, 2, 3
R-5	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	601-1000	14"ø	24X24	16X16	1, 2, 3
R-6	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	1001-1500	16"ø	24X24	20X20	1, 2, 3
R-7	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE	1500-2000	22X22	24X24	22X22	1, 2, 3
R-8 / T-1	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	0-600	12X12	14X14	12X12	1, 2, 3
R-9	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	501-900	18X12	20X14	18X12	1, 2, 3
R-10	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	901-1350	18X18	20X20	18X18	1, 2, 3
R-11	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	1351-1750	24X18	26X20	24X18	1, 2, 3
R-12	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	1751-2400	30X24	32X26	30X24	1, 2, 3
R-13	TITUS 33RFL	STEEL 3/8" BLADE SPACING 35 DEGREE DEFLECTION GYMNASIUM GRILLE	2401-5000	36X24	38X26	36X24	1, 2, 3
R-14	TITUS 33RFL	STEEL 3/8" BLADE SPACING 35 DEGREE DEFLECTION GYMNASIUM GRILLE	5001-10000	80X40	82X42	80X40	1, 2, 3
E-1	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE 35 DEGREE DEFLECTION	0-100	6"ø	12X12	8X8	1, 2, 3
E-2	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE 35 DEGREE DEFLECTION	101-225	8"ø	24X24	10X10	1, 2, 3
E-3	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE 35 DEGREE DEFLECTION	226-375	10"ø	24X24	12X12	1, 2, 3
E-4	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ 1/2" CUBE CORE 35 DEGREE DEFLECTION	376-600	12"ø	24X24	14X14	1, 2, 3
E-5	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	501-900	18X12	20X14	18X12	1, 2, 3
E-6	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	0-75	4X6	6X8	4X6	1, 2, 3
E-7	TITUS 350FS	EXTRUDED ALUMINUM 3/4" BLADE SPACING 35 DEGREE DEFLECTION	76-200	8X6	10X8	8X6	1, 2, 3

REMARKS:

1. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR AIR DEVICE MOUNTING TYPE. FOR LAY-IN CEILINGS PROVIDE T-BAR MOUNTED AND 24"x24" ALUMINUM FILLER PANELS. FOR DRYWALL, WALL OR DUCT MOUNTED AIR DEVICES PROVIDE APPROPRIATE SURFACE MOUNTING FRAME.
2. PROVIDE SQUARE TO ROUND TRANSITION BOX.
3. COORDINATE COLOR OF AIR DEVICES IN GYMNASIUM AND CAFETERIA WITH ARCHITECT. ALL OTHERS SHALL HAVE A WHITE FINISH.
4. PROVIDE WITH MOLDED INSULATION BLANKET.
5. PROVIDE WITH CUSTOM PLENUM BOX WITH ROUND DUCT INLET.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA
1501 Reliance Street Prospect, Kentucky 40059
502.228.4444
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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL SCHEDULES

JOB NO.	1569
DATE	07/10/2019
DRAWN	CAH
CHECKED	JRE

REVISIONS

No.	Description	Date

SHEET

M7.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
MECHANICAL SCHEDULES
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AIR SEPARATOR SCHEDULE

GENERAL		
SYMBOL	AS-1	AS-2
MANUF. & MODEL	BELL & GOSSETT RL-5F	BELL & GOSSETT RL-3F
SERVICE	PRIMARY GEO LOOP	CHILLED WATER LOOP
GPM	365	100
HEAD LOSS	0.91 FT	1.0 FT
MAX TEMPERATURE	350 F	350 F
MAX PRESSURE	125 PSI	125 PSI
ASME CERTIFIED	YES	YES

REMARKS:
1. ACCEPTABLE MANUFACTURER'S: TACO, BELL AND GOSSETT, ARMSTRONG

EXPANSION TANK SCHEDULE

GENERAL		
SYMBOL	ET-1	ET-2
MANUF. & MODEL	BELL & GOSSETT D-280V	BELL & GOSSETT D-40V
SERVICE	PRIMARY GEO LOOP	CHILLED WATER LOOP
TANK VOLUME	211 GAL	21.7 GAL
ACCEPTANCE VOLUME	84 GAL	11.3 GAL
ORIENTATION	VERTICAL	VERTICAL
TYPE	BLADDER	BLADDER
MAX TEMPERATURE	240 F	240 F
MAX PRESSURE	125 PSI	125 PSI
AIR PRESSURE CHARGE	15 PSI	15 PSI
ASME RATED	YES	YES

REMARKS:
1. ACCEPTABLE MANUFACTURER'S: TACO, BELL AND GOSSETT, ARMSTRONG

HYDRONIC PUMP SCHEDULE

GENERAL			
SYMBOL	P-1A/1B	P-2	P-3
MANUF. & MODEL	BELL & GOSSETT E-1510 3BD	BELL & GOSSETT E-90 2AC SENSORLESS ITSC OPTION	BELL & GOSSETT E-90 2AB SENSORLESS ITSC OPTION
SERVICE	PRIMARY GEO LOOP	LOW-FLOW GEO LOOP	CHILLED WATER LOOP
GPM	365	100	85
HEAD (FT)	55	55	35
VFD	YES	YES	NO
HP	10	3	2
MIN. EFFICIENCY (%)	81	55	55
RPM	1622	3236	1750
IMPELLER	8.5	4.25	4.25
VOLTS / PHASE / HZ	460 / 3 / 60	208 / 3 / 60	208 / 3 / 60
REMARKS	1, 2, 3, 4	2, 3, 4	2, 3, 4

REMARKS:
1. PROVIDE PUMPS WITH MANUFACTURER'S PUMP STAND ON EXISTING CONCRETE PAD.
2. PUMP SHALL NOT USE MORE THAN 90% OF FULL IMPELLER.
3. LESS EFFICIENT EQUIPMENT WILL NOT BE ACCEPTED.
4. ACCEPTABLE MANUFACTURER'S: TACO, BELL AND GOSSETT, ARMSTRONG

VARIABLE FREQUENCY DRIVE SCHEDULE

GENERAL		
SYMBOL	VFD-1A	VFD-1B
MANUF. & MODEL	ABB ACH550	ABB ACH550
SERVICE	P-1A	P-1B
MOTOR HP	10	10
VOLTS / PH / HZ	208 V / 3 / 60	
FUSED DISCONNECT AND NEMA 12 ENCLOSURE	YES	YES
BYPASS STARTER	YES	YES

REMARKS:

1. THE VFD SHALL INCLUDE A COMMUNICATIONS PORT FOR BACNET COMPATIBLE PROTOCOL. COORDINATE WITH THE TCC. PROVIDE INPUT POINTS FOR TWO PRESET SPEEDS. PROVIDE TWO PROGRAMMABLE FORM C RELAYS RATED FOR 2 AMPS TO ACTIVATE AT SPEED.
2. PROVIDE VFD EQUIPPED MOTORS WITH SHAFT GROUNDING RINGS.
3. PROVIDE ALL VFDS WITH A LAMICOID PLATE INDICATING ID#, HP, AND EQUIPMENT SERVED. INCLUDE VFD SPEED FOR REQUIRED FLOW ONPUMP VFDS AND VFD SPEED FOR REQUIRED AIRFLOW ON AHU VFDS.
4. PROVIDE NEMA 12 ENCLOSURE AND BACNET MS/TP PROTOCOL.
5. ACCEPTABLE MANUFACTURERS: ABB, SQUARE D, DANFOSS, YASKAWA

VARIABLE REFRIGERANT HEAT PUMP UNIT SCHEDULE

GENERAL				
SYMBOL	AC-1	AC-2	AC-3	AC-4
MANUFACTURER & MODEL	TRANE PLFY-P05NFMU-E	TRANE PLFY-P08NFMU-E	TRANE PLFY-P12NFMU-E	TRANE PLFY-P15NFMU-E
SERVICE	ADMIN VRF	ADMIN VRF	ADMIN VRF	ADMIN VRF
DESCRIPTION	CEILING CASSETTE	CEILING CASSETTE	CEILING CASSETTE	CEILING CASSETTE
REFRIGERANT	R-410A	R-410A	R-410A	R-410A
PERFORMANCE				
COOLING CAPACITY (MBH)	5.0	8.0	12.0	15.0
HEATING CAPACITY (MBH)	5.6	9.0	13.5	17.0
AIRFLOW	230-265-280	230-280-315	245-280-335	265-315-390
ELECTRIC				
V / PH / HZ	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60
MCA / FUSE	0.24 / 15	0.28 / 15	0.29 / 15	0.35 / 15

REMARKS:
1. ACCEPTABLE MANUFACTURERS: DAIKIN, LG OR TRANE

VARIABLE REFRIGERANT HEAT PUMP CONDENSER

GENERAL	
SYMBOL	VRC-1
MANUFACTURER & MODEL	TRANE PQRY-P72YLMU-A1
SERVICE	ADMINISTRATION VRF
DESCRIPTION	6 TON WATER-COOLED CONDENSING UNIT
REFRIGERANT	R-410A
COMPRESSOR	INVERTER SCROLL HERMETIC COMPRESSOR
COOLING PERFORMANCE	
COOLING CAPACITY (MBH)	72.0
EER	16.7
SOURCE GPM / WPD (FT)	25.4 / 8.0
SOURCE EWT / LWT (°F)	85 / 97.1
HEATING PERFORMANCE	
HEATING CAPACITY (MBH)	80.0
COP	5.51
SOURCE GPM / WPD (FT)	25.4 / 8.0
SOURCE EWT / LWT (°F)	45 / 35.9
ELECTRIC	
V / PH / HZ	460 / 3 / 60
MCA / MOP	6 / 15
DISCONNECT WITH SINGLE POINT POWER	YES

REMARKS:
1. ACCEPTABLE MANUFACTURERS: DAIKIN, LG OR TRANE

1. ACCEPTABLE MANUFACTURERS: DAIKIN, LG OR TRANE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

MECHANICAL SCHEDULES

JOB NO.	1569
DATE	07/10/2019
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REVISIONS

No.	Description	Date

SHEET

M7.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
M7.1 MECHANICAL SCHEDULES
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GENERAL NOTES (LEGEND):

A. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
B. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.
C. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
E. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
F. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
G. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
H. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
I. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
K. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
L. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
M. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
N. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER
O. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
P. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
Q. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE ALL PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
R. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
S. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.
T. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
U. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
V. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT
W. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
X. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
Y. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
Z. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
AA. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
AB. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
AC. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
AD. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
AE. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO UNDERGROUND AND BURIED UTILITY SERVICES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
AF. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
AG. WHERE INTERRUPTION AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
AH. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
AI. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
AJ. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
AK. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
AL. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
AM. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
AN. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
AO. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
AP. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
AQ. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
AR. REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.
AS. UNLESS OTHERWISE SPECIFIED OR INDICATED, INSTALL LIGHT FIXTURES, SMOKE DETECTORS, SPEAKERS AND OTHER CEILING MOUNTED APPURTENANCES IN THE CEILINIG IN A SYMMETRICAL PATTERN, UNLESS SPECIFICALLY INDICATED OTHERWISE.
AT. WHERE EXIT LIGHTS ARE CONNECTED TO EMERGENCY CIRCUITS WITH KEYSWITCH OR CONTACTOR CONTROL, AN UNSWITCHED LINE SHALL BE PULLED IN TO MAINTAIN THEIR OPERATION REGARDLESS OF SWITCH POSITION.
AU. LOCATE CABLE AND CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING. TO MAXIMIZE AVAILABLE LIGHT AND SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC., TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT. LIGHT FIXTURES SHALL NOT BE MOUNTED BELOW 7'-6" A.F.F.
AV. ALL LIGHTING FIXTURE LENSES, DOWNLIGHTING ALZAK CONES AND LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGERPRINTS SHALL BE CLEANED WITH SOLVENT RECOMMNEDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
AW. REFER TO ARCHITECTURAL DETAILS AS APPLICABLE FOR RECESSED SOFFIT LED FIXTURES. ADJUST FIXTURE LENGTHS BY FIELD MEASUREMENT OF SOFFIT, AS NECESSARY.
AX. CONTRACTOR SHALL INSTALL INTERIOR DISCONNECT SWITCHES, MOTOR RATED SWITCHES, STARTERS, ETC. IN A NEMA 1 ENCLOSURE AND IN A NEM 3R ENCLOSURE FOR EXTERIOR UNITS, UON. DEVICES ARE TO BE WITHIN SIGHT OF THE UNIT SERVING, IN A MAINTENANCE ACCESSIBLE LOCATION. COORDINATE ALL SIZES WITH FINAL EQUIPMENT SHOP DRAWING DATA PRIOR TO ROUGH-IN AND/OR START OF WORK.
AY. ALL FLOOR SLEEVES SHALL BE SEALED WATER TIGHT.
AZ. THE CONTRACTOR SHALL PROVIDE AND LOCATE ALL SLEEVES AND INSERTS REQUIRED FOR HIS WORK BEFORE THE FLOORS AND SURFACE BEING PENETRATED ARE BUILT. CORING OF ANY ELEVATED DECK SHALL NOT BE ACCEPTED. ALL METAL DECK PENETRATIONS SHALL BE COORDINATED AND SLEEVED. ANY COSTS INCURRED DUE TO LACK OF COORDINATION SHALL BE BORNE BY THIS CONTRACTOR. WHERE SLEEVES ARE PLACED IN EXTERIOR WALLS OR IN SLABS ON GRADES, THE SPACE BETWEEN THE PIPE OR CONDUIT AND THE SLEEVES SHALL BE MADE COMPLETELY AND PERMANENTLY WATER TIGHT.

POKE-THRU/FLOOR BOX GENERAL NOTES:

A. ALL ABOVE SLAB DEVICES SHALL BE SCRUB WATER RATED
B. ALL ON GRADE DEVICES SHALL BE CAST IRON OR RATED FOR ONGRADE USE.
C. FLOOR BOX FLANGE/FLOOR TYPE REQUIREMENTS SHALL BE COORDINATED ARCHITECTURAL FLOOR FINISH PRIOR TO SUBMISSION. PROVIDE FLANGED SETTINGS, TILE/CARPET OR BARE CONCRETE COORDINATED FLOOR BOXES AS REQUIRED FOR FLOOR.
D. CONTRACTOR SHALL PROVIDE ALL SYSTEMS AND POWER CONDUITS (REFER TO STUB-OUT DETAIL FOR DEVICE TYPE AND NUMBER OF CONDUITS U.O.N.) AT CEILING SPACE BELOW UP IN NEAREST WALL TO ABOVE ACCESSIBLE CEILING AS REQUIRED FOR SYSTEMS STUB OUTS, POWER CIRCUITING, ETC. REFER TO FLOOR PLANS AND DEVICES AND PROVIDE AS REQUIRED.
E. WHERE SYSTEMS FURNITURE CONNECTIONS ARE REQUIRED, CONTRACTOR SHALL PROVIDE FLEXIBLE CONDUIT WHIPS WITH APROPRIATE CONNECTIONS AT EACH END FOR FLOOR BOX AND SYSTEMS FURNITURE CONNECTIONS. APPLIES FOR POWER AND SYSTEMS CONNECTIONS.
F. PROVIDE SEPARATE COMPARTMENTS FOR POWER AND SYSTEMS CONNECTIONS OR DIVIDERS LISTED FOR THAT USE BY THE MANUFACTURER.
G. COORDINATE EXACT FLOOR BOX LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING CONTROL SWITCHES		
LIGHT SWITCH: GENERAL PURPOSE	4'-0"	$
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	4'-0"	$ N
LOW VOLTAGE DIMMER SWITCH	4'-0"	$ D
THREE-WAY SWITCH	4'-0"	$ 3
FOUR-WAY SWITCH	4'-0"	$ 4
KEYED SWITCH	4'-0"	$ K
OCCUPANCY OR VACANCY SENSOR SWITCH	4'-0"	$ OS, $ VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	4'-0"	$ U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	4'-0"	$ IL
LOW VOLTAGE MOMENTARY SWITCH	4'-0"	$ LV
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	4'-0"	$ PL
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$ M
MOMENTARY CONTACT SWITCH	4'-0"	$ MC
HAND-OFF-AUTO 3-POSTION SWITCH	4'-0"	$ HOA
REMOTE INVERTER REFER TO LIGHT FIXTURE SCHEDULE FOR DETAILS	CLG	E
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
PHOTO-CELL AS NOTED	AS NOTED	PC
POWER OUTLETS		
SIMPLEX RECEPTACLE, TAMPER PROOF, SHUTTER TYPE	1'-6"	
DUPLEX RECEPTACLE, TAMPER PROOF, SHUTTER TYPE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH	4'-0"	
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		
FILLED OUTER BARS INDICATES INTEGRAL INTEGRAL USB OUTLETS IN ADDITION TO POWER RECEPTACLES	1'-6"	
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	4'-0"	C/S
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	
VOLTAGE/3PH RECEPTACLE, AS NOTED	1'-6"	
"DOG-HOUSE" TYPE TWIN DUPLEX RECEPTACLE WITH ONE DUPLEX RECEPTACLE ON BOTH SIDES	ON CNTR.	DP
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		SS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		EWC
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	48" TO LEVER	F
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F F
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A A
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V V
EXTERIOR ELECTRIC BELL	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABV CLG	CD
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	4'-0"	NAC
FIRE ALARM CONTROL EXTENDER		EXT
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		PC
DEVICE USED FOR ELEVATOR CONTROL		EL

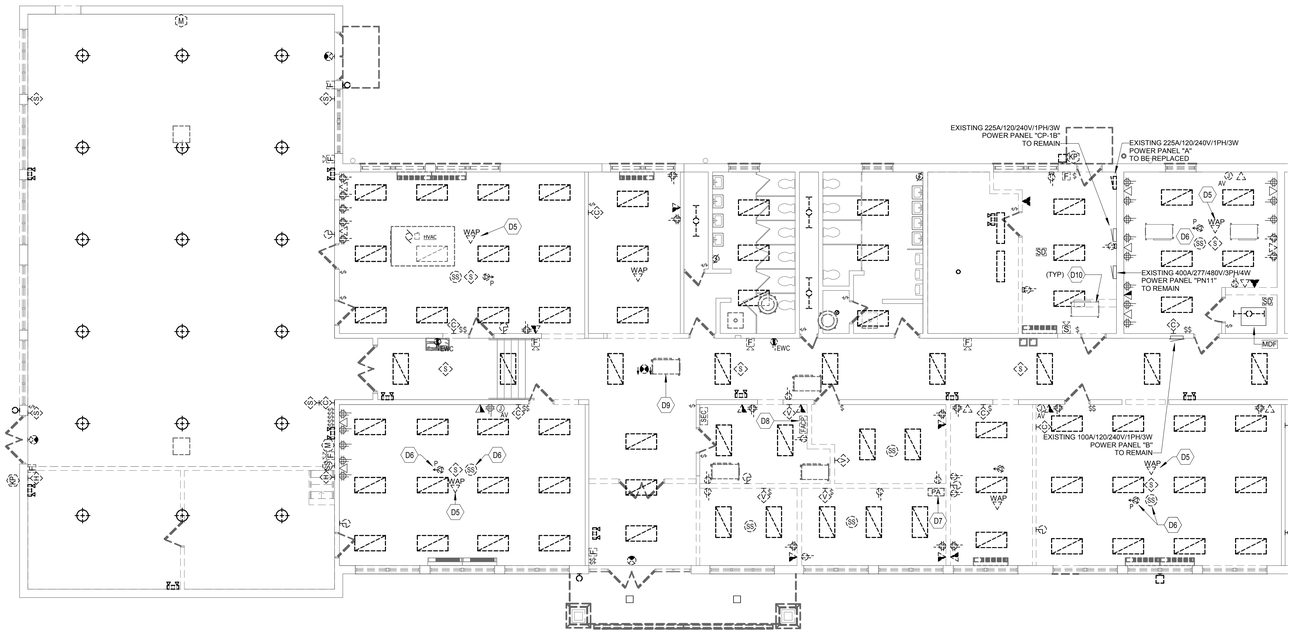
DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
FLOODLIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
PARALLEL-HATCHING INDICATES EMERGENCY BATTERY BACK-UP		
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
LOW VOLTAGE CABLE PATH	AS SHOWN	
CABLE TRAY AS NOTED	AS SHOWN	
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR INSTRUCTOR) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT_NUTONE OR EQUAL	4'-0"	DB
DOORBELL: UNIVERSAL STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OWNER/ARCHITECT, NUTONE OR EQUAL	7'-6"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
INDICATES MOUNTING ABOVE COUNTER-TOP, 2" ABOVE BACKSPLASH, NO HIGHER THAN 48"		C
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX. CONDUIT STUB-UP, REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.		T
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D
VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS	1'-6"	#V
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	#D/#V
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLANS)		TEL
WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS.		WAP

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
FLOOR BOX AND POKE THROUGH OUTLETS		
FLOORBOX, POWER ONLY, AS SCHEDULED	FLOOR	
FLOOR BOX WITH (2) CFCI DUPLEX RECEPTACLES AND (1) OFOI DATA. GANG BOTH RECEPTACLES TOGETHER AND PROVIDE BARRIER TO SEPARATE FROM LOW VOLTAGE. WIREMOLD #2FBB	FLOOR	FB-A
FLOOR BOX WITH (2) CFCI DUPLEX RECEPTACLES AND (2) OFOI DATA. GANG BOTH RECEPTACLES TOGETHER AND PROVIDE BARRIER TO SEPARATE FROM LOW VOLTAGE. WIREMOLD #2FBB	FLOOR	FB-B
FIRE RATED POKE THOUGH FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR	FB-A
TELEVISION		
TELEVISION SPLITTERS/AMPLIFIERS/DISTRIBUTION	4'-0"	TV-HE
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
OVERHEAD PAGING		
PAGING SPEAKER: CEILING	CLG	S
PAGING SPEAKER W/ VOLUME CONTROL. QUAM SYSTEM 12/VC OR EQUAL	CLG	SV
WALL MOUNTED PAGING HORN	9'-0"	H
PAGING SPEAKER: WALL QUAM 1VP OR EQUAL	8'-0"	S
PAGING SPEAKER, VANDEL PROOF	44"	S VP
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEA

ELECTRICAL DEMOLITION NOTES:

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW LAMACOID LABELS, TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

TAGGED NOTES	##
D5	EXISTING WIRELESS ACCESS POINTS (WAP'S). REMOVE AND REINSTALL TO ALLOW FOR CEILING REPLACEMENT.
D6	EXISTING CLASSROOM/ADMIN AUDIO VISUAL EQUIPMENT (PROJECTOR, CEILING MOUNTED SPEAKERS) SHALL BE REMOVED AND REINSTALLED. ALL EXISTING CABLING TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE NEW J-HOOKS, SUPPORTED FROM STRUCTURE ABOVE TO RESUPPORT CABLING.
D7	P/A SYSTEM TO BE REPLACED COMPLETE. EXISTING P/A HEAD END SHALL REMAIN OPERATIONAL UNTIL NEW HEAD END IS INSTALLED AND ALL DEVICES REPLACED.
D8	FIRE ALARM SYSTEM TO BE REPLACED COMPLETE. EXISTING FIRE ALARM CONTROL PANEL SHALL REMAIN OPERATIONAL UNTIL NEW PANEL IS INSTALLED AND ALL DEVICES ARE REPLACED.
D9	EXISTING HVAC ROOFTOP EQUIPMENT TO BE REMOVED AND REINSTALLED. ALL EXISTING CONDUIT AND WIRE FEEDING EQUIPMENT TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE SUPPORT FOR CONDUIT AND WIRE DURING CONSTRUCTION.
D10	EXISTING EQUIPMENT TO BE DEMOLISHED. REMOVE ELECTRICAL CONNECTION AND DISCONNECTING MEANS COMPLETELY BACK TO SOURCE. (TYPICAL)



1 First Floor Plan - Area A - Electrical Demolition
1/8" = 1'-0"

BLDG NORTH

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

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Bill Stanfield - Email: bill@cmtaky.com

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - AREA A - ELECTRICAL DEMOLITION

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E2.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E2.1 - FIRST FLOOR PLAN - AREA A - ELECTRICAL DEMOLITION
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1 First Floor Plan - Area B - Electrical Demolition
1/8" = 1'-0"

BLDG NORTH

ELECTRICAL DEMOLITION NOTES:

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
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F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
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L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW LAMACOID LABELS, TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

TAGGED NOTES	
D5	EXISTING WIRELESS ACCESS POINTS (WAPS). REMOVE AND REINSTALL TO ALLOW FOR CEILING REPLACEMENT.
D6	EXISTING CLASSROOM/ADMIN AUDIO VISUAL EQUIPMENT (PROJECTOR, CEILING MOUNTED SPEAKERS) SHALL BE REMOVED AND REINSTALLED. ALL EXISTING CABLING TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE NEW J-HOOKS, SUPPORTED FROM STRUCTURE ABOVE TO RESUPPORT CABLING.
D9	EXISTING HVAC ROOFTOP EQUIPMENT TO BE REMOVED AND REINSTALLED. ALL EXISTING CONDUIT AND WIRE FEEDING EQUIPMENT TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE SUPPORT FOR CONDUIT AND WIRE DURING CONSTRUCTION.
D10	EXISTING EQUIPMENT TO BE DEMOLISHED. REMOVE ELECTRICAL CONNECTION AND DISCONNECTING MEANS COMPLETELY BACK TO SOURCE. (TYPICAL)

SHERMAN CARTER BARNHART ARCHITECTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - AREA B - ELECTRICAL DEMOLITION

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E2.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E2.2 - FIRST FLOOR PLAN - AREA B - ELECTRICAL DEMOLITION
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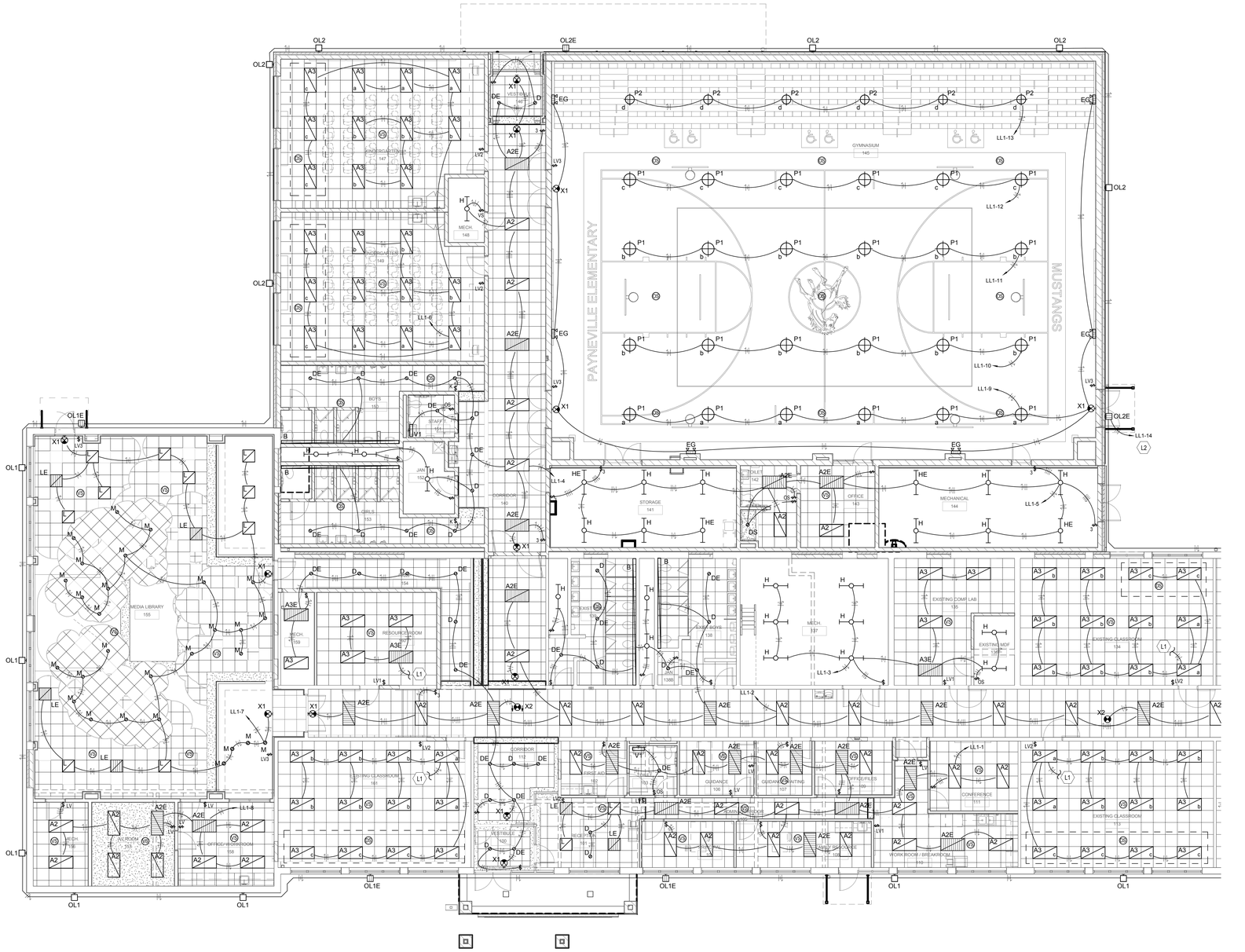

1 First Floor Plan - Area A - Lighting
1/8" = 1'-0"

BLDG NORTH

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
F. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
H. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
I. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

TAGGED NOTES

L1	PROVIDE CONNECTION TO NEW LIGHTING FROM CIRCUIT PREVIOUSLY SERVING LIGHTING IN THIS ROOM.
L2	ROUTE CIRCUITS THROUGH EXTERIOR LIGHTING CONTROL CABINET FOR CONTROL OF FIXTURES. REFER TO DETAIL FOR FURTHER REQUIREMENTS.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA
1501 Alliance Street Prospect, Kentucky 40059
502.228.4444 FAX 502.228.4445
Bill Stanfield - Email: bill@cmta.net

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - AREA A - LIGHTING

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E3.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E3.1 - FIRST FLOOR PLAN - AREA A - LIGHTING
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1 First Floor Plan - Area B - Lighting
1/8" = 1'-0"

BLDG NORTH

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
F. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
H. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
I. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

TAGGED NOTES

L1	PROVIDE CONNECTION TO NEW LIGHTING FROM CIRCUIT PREVIOUSLY SERVING LIGHTING IN THIS ROOM.

SHERMAN CARTER BARNHART ARCHITECTS

COMMONWEALTH OF KENTUCKY
JOHN P. ROGERS
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FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - AREA B - LIGHTING

JOB NO.	1569
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REVISIONS

No.	Description	Date

SHEET

E3.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E3.2 FIRST FLOOR PLAN - AREA B - LIGHTING
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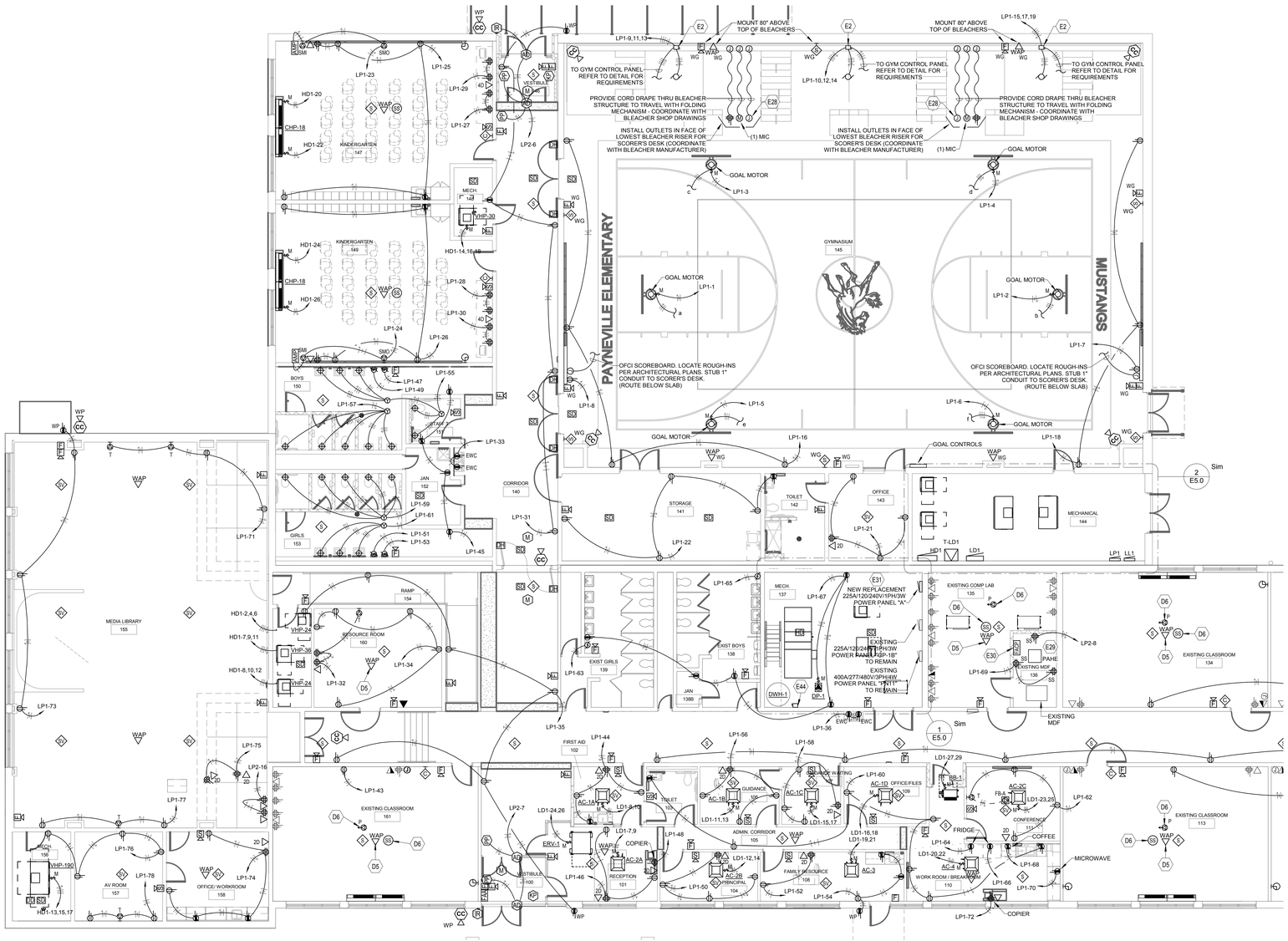

1 First Floor Plan - Area A - Power/Systems
SCALE: NONE

BLDG NORTH

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
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D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
F. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

TAGGED NOTES

D5	EXISTING WIRELESS ACCESS POINTS (WAP'S). REMOVE AND REINSTALL TO ALLOW FOR CEILING REPLACEMENT.
D6	EXISTING CLASSROOM/ADMIN AUDIO VISUAL EQUIPMENT (PROJECTOR, CEILING MOUNTED SPEAKERS) SHALL BE REMOVED AND REINSTALLED. ALL EXISTING CABLING TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE NEW J-HOOKS, SUPPORTED FROM STRUCTURE ABOVE TO RESUPPORT CABLING.
E2	PROVIDE 30A/250V/3P HEAVY DUTY DISCONNECT SWITCH WITH NEMA 1 ENCLOSURE FOR CONNECTION TO NEW EQUIPMENT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
E28	CONTRACTOR SHALL PROVIDE CUSTOM ANODIZED ALUMINUM FACEPLATE WITH ONE (1) HDMI FEMALE PASS THROUGH CONNECTOR. COORDINATE REQUIREMENTS WITH SPECIFICATIONS PRIOR TO CONSTRUCTION.
E29	PROVIDE NEW PA HEAD END AT AREA INDICATED. EXISTING SYSTEM SHALL REMAIN OPERATIONAL UNTIL ALL DEVICES HAVE BEEN REPLACED.
E30	PROVIDE NEW FIRE ALARM PANEL AT AREA INDICATED. EXISTING SYSTEM SHALL REMAIN OPERATIONAL UNTIL ALL DEVICES HAVE BEEN REPLACED.
E31	PROVIDE NEW 225A/120/240V/1PH/3W REPLACEMENT PANEL INDICATED. REFER TO PANEL REPLACEMENT DETAIL FOR INSTALLATION REQUIREMENTS.
E44	PROVIDE A 60A/250V/2P DISCONNECT SWITCH FUSED AT EQUIPMENT NAMEPLATE.

FINAL DOCUMENTS

SHERMAN CARTER BARNHART ARCHITECTS

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PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - AREA A - POWER/SYSTEMS

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E4.1

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E4.1 FIRST FLOOR PLAN - AREA A - POWER/SYSTEMS
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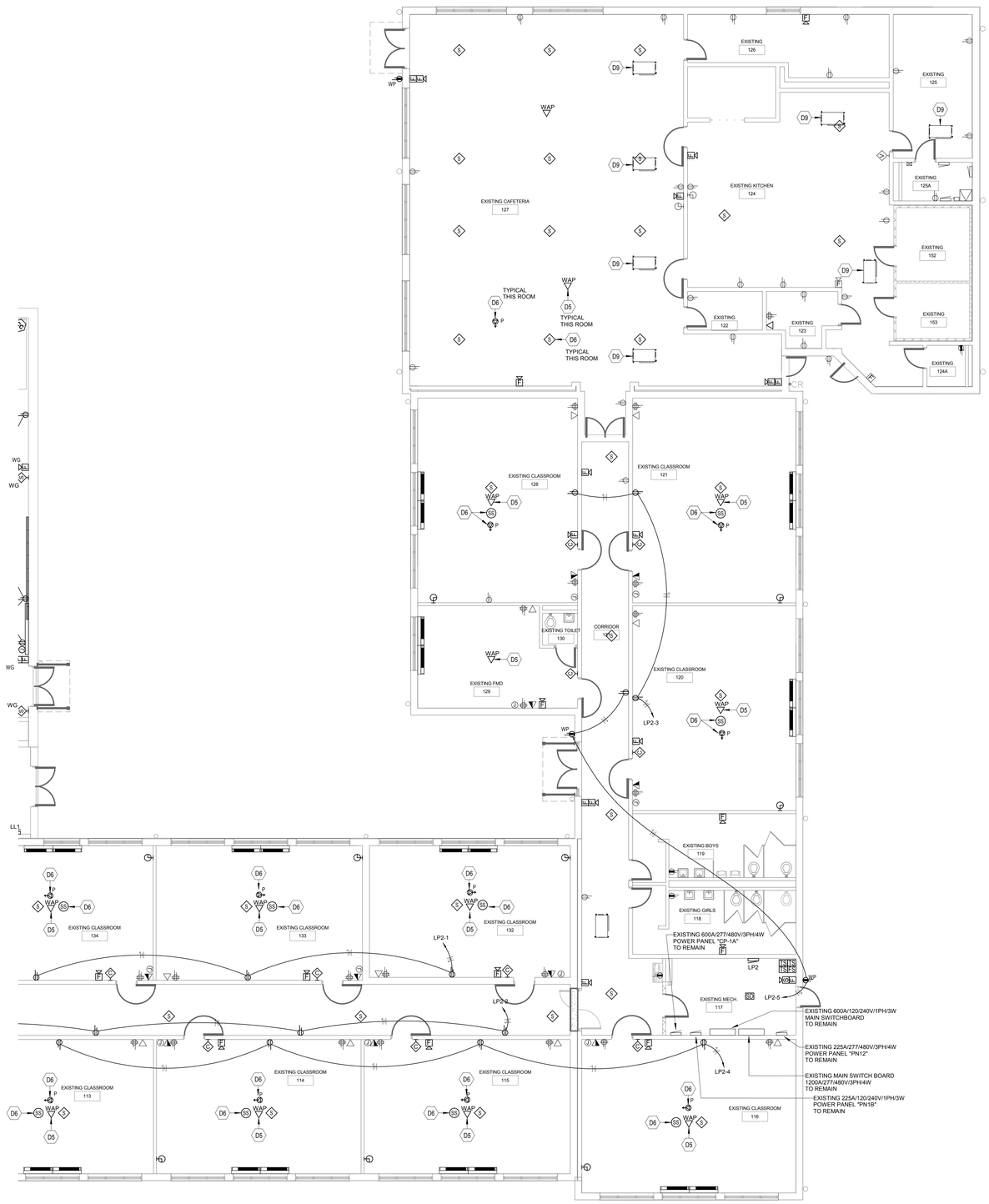

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
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D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
F. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

TAGGED NOTES

D5	EXISTING WIRELESS ACCESS POINTS (WAP'S). REMOVE AND REINSTALL TO ALLOW FOR CEILING REPLACEMENT.
D6	EXISTING CLASSROOM/ADMIN AUDIO VISUAL EQUIPMENT (PROJECTOR, CEILING MOUNTED SPEAKERS) SHALL BE REMOVED AND REINSTALLED. ALL EXISTING CABLING TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE NEW J-HOOKS, SUPPORTED FROM STRUCTURE ABOVE TO RESUPPORT CABLING.
D9	EXISTING HVAC ROOFTOP EQUIPMENT TO BE REMOVED AND REINSTALLED. ALL EXISTING CONDUIT AND WIRE FEEDING EQUIPMENT TO REMAIN INTACT AND BE PROTECTED DURING CONSTRUCTION. PROVIDE SUPPORT FOR CONDUIT AND WIRE DURING CONSTRUCTION.

1 First Floor Plan - Area B - Power/Systems
SCALE: NONE

BLDG NORTH

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Bob Mudd, LEED AP BD+C Steve Mueller

FINAL DOCUMENTS

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

FIRST FLOOR PLAN - AREA B - POWER/SYSTEMS

JOB NO.	1569
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CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E4.2

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E4.2 FIRST FLOOR PLAN - AREA B - POWER/SYSTEMS
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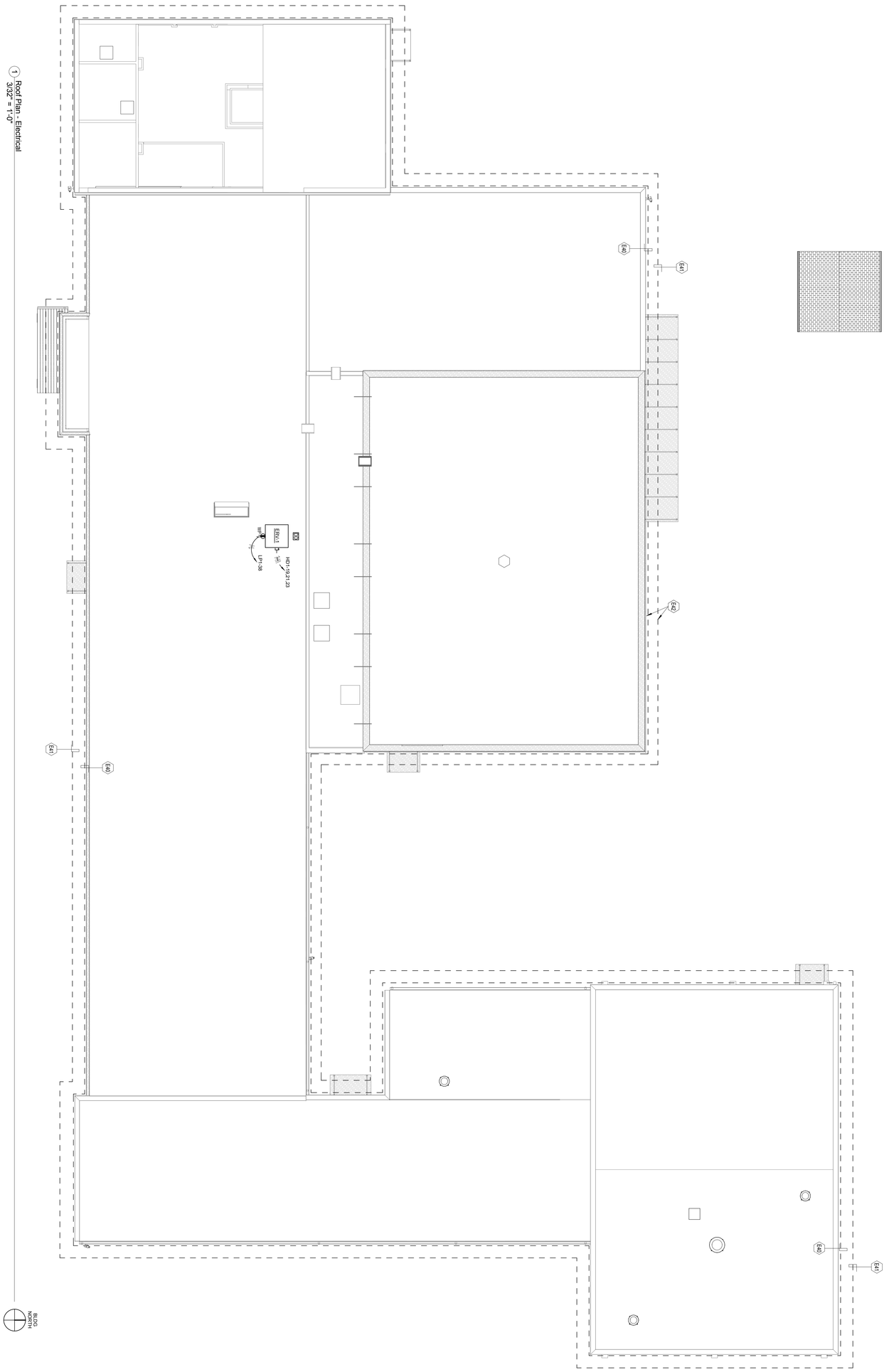

1 Roof Plan - Electrical
3/32" = 1'-0"

TAGGED NOTES

E40	CONTRACTOR SHALL PROVIDE A NEW UL 96A MASTER LABELED LIGHTNING PROTECTION SYSTEM. INSTALLATION SHALL BE IN ACCORDANCE TO SPECIFICATION 16660 "LIGHTING PROTECTION FOR STRUCTURES" FOR ADDITIONAL REQUIREMENTS
E41	INSTALL GROUND RODS AS GROUND REFERENCE POINTS. INSTALLATION DETAIL: INSTALL EXTERNAL GROUND RING 3' FROM BUILDING.
E42	PROVIDE 10' GROUND RODS AT ALL EXISTING VERTICAL STRUCTURAL STEEL COLUMNS EXTENDING AROUND PERIMETER OF BUILDING.

FINAL DOCUMENTS

ROOF PLAN - ELECTRICAL

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

CMTA
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COMMONWEALTH OF KENTUCKY — NICHOLAS R. HODGES — 28353 — LICENSED PROFESSIONAL ENGINEER

SHERMAN CARTER BARNHART ARCHITECTS

JOB NO. 1569
DATE 07/10/2019
DRAWN JPR
CHECKED MLR

REVISIONS

No.	Description	Date

SHEET **E4.3**

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
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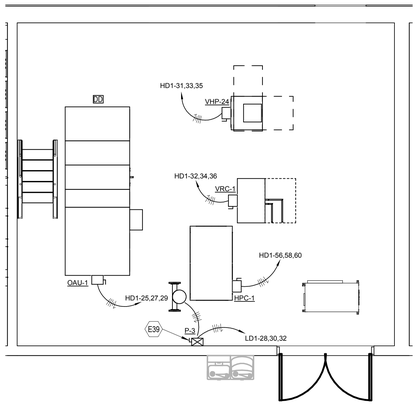
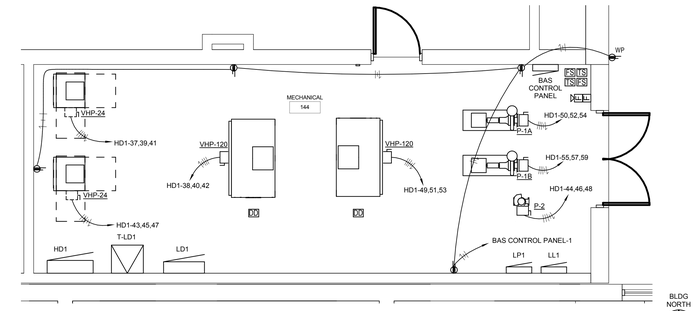
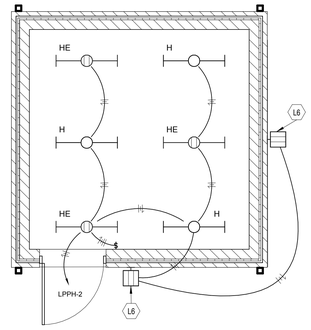
TAGGED NOTES	##
E39	PROVIDE A 30A/250V/3P NEMA1 COMBINATION STARTER DISCONNECT SWITCH TO SERVE PUMP INDICATED.
E43	ALL FIRE/JOCKEY PUMP POWER AND CONTROL WIRING SHALL BE STRANDED AND IN RIGID STEEL CONDUIT, EXCEPT FOR FINAL CONNECTIONS TO MOTORS WHICH SHALL BE IN A FLEXIBLE CONDUIT SYSTEM PERMITTED FOR FIRE PUMPS PER NEC 695. ALL WIRING SHALL BE LISTED 2-HOUR FIRE RATED CABLING SYSTEM.
L6	PROVIDE FIXTURE WITH INTEGRAL PHOTO CELL.



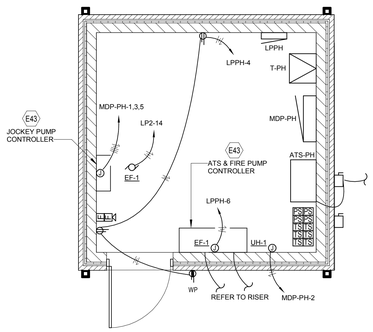
1 ENLARGED MECHANICAL ROOM 137 PLAN - POWER/SYSTEMS
1/4" = 1'-0"



2 ENLARGED MECHANICAL ROOM 144 PLAN - POWER/SYSTEMS
1/4" = 1'-0"



3 PUMPHOUSE LIGHTING
1/4" = 1'-0"



4 PUMPHOUSE POWER/SYSTEMS
1/4" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA
1501 Mockingbird Drive Prospect, Kentucky 40059
502.292.1040 FAX 502.292.1041
Web Site Address: E-Mail Address: Internet Address

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ENLARGED PLANS - ELECTRICAL

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E5.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E5.0 ENLARGED PLANS - ELECTRICAL
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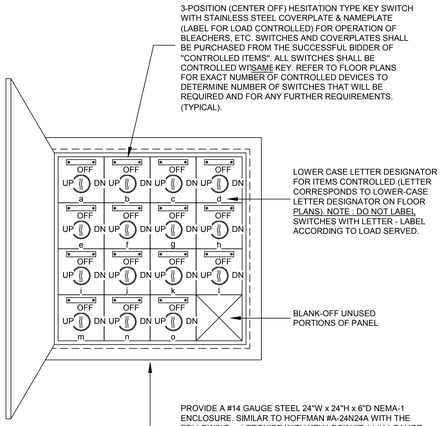
ELEC - LUMINAIRE SCHEDULE

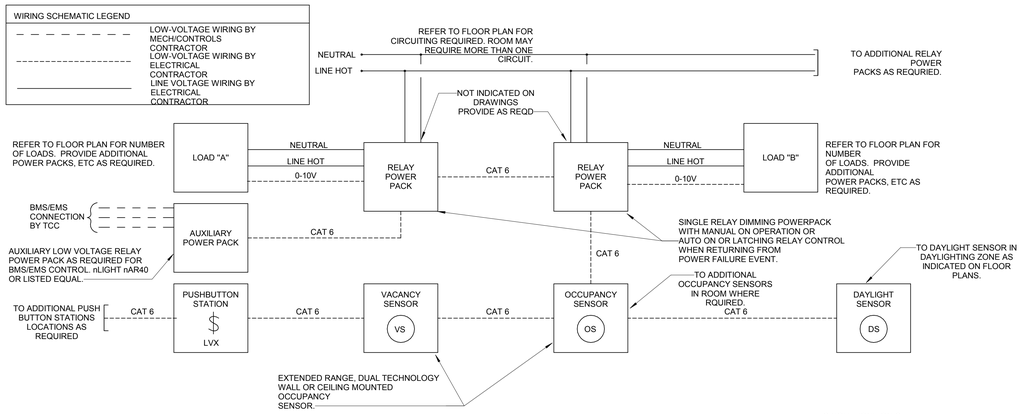
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A	2x2 LUMINOUS LAY-IN PANEL FIXTURE WITH ALUMINUM FRAME, EDGE LITE OPTICS, ACRYLIC DIFFUSER AND 1% DIMMING DRIVER	LITHONIA # EPANL 2X2 4800LM 80CRI 40K MIN1 ZT MVOLT	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	36	120	
A2	SAME AS 'A' WITH 2'x4' HOUSING	LITHONIA # EPANL 2X4 4800LM 80CRI 40K MIN1 ZT MVOLT	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	47	120	
A2E	SAME AS 'A2' EXCEPT WITH INTEGRAL BATTERY	LITHONIA # EPANL 2X4 4800LM 80CRI 40K MIN1 ZT MVOLT E10 WCP	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	47	120	
A3	SAME AS 'A2' EXCEPT WITH HIGHER LUMENS	LITHONIA # EPANL 2X4 5400LM 80CRI 40K MIN1 ZT MVOLT	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	51	120	
A3E	SAME AS 'A3' EXCEPT WITH INTEGRAL BATTERY	LITHONIA # EPANL 2X4 5400LM 80CRI 40K MIN1 ZT MVOLT E10 WCP	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	51	120	
AE	SAME AS 'A' EXCEPT WITH INTEGRAL BATTERY	LITHONIA # EPANL 2X2 4800LM 80CRI 40K MIN1 ZT MVOLT E10 WCP	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	36	120	
B	RECESSED LED PERIMETER LIGHT	A LIGHT # ACL5-LENGTH-LS-40-U-HE-(CEILING)-T-D	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	32	120	
D	4" ROUND LED DOWNLIGHT	PATHWAY # 4VLFLX 2000 40K D8/VLED SCLPF	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	37	120	
DE	SAME AS 'D' EXCEPT WITH INTEGRAL BATTERY	PATHWAY # 4VLFLX 2000 40K D8/VLED SCLPF EM	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	37	120	
DS	6" RECESSED CAN LIGHT FIXTURE	PATHWAY # 6VLFLX 2000 40K D8/VLED SCLPF	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	37	120	
E1	LED SURFACE, WALL 2-HEAD EMERGENCY BATTERY PACK LIGHT FIXTURE	LITHONIA # ELM6 LED W ELVAVS	COOPER, PHILIPS	SURFACE	LED	0	120	
EG	LED SURFACE, WALL 2-HEAD EMERGENCY BATTERY PACK LIGHT FIXTURE	LITHONIA # ELM6 LED W ELVAVS	COOPER, PHILIPS	SURFACE	LED	0	120	
H	LINEAR LED STRIP WITH SNAP ON ACRYLIC LENS AND AIRCRAFT CABLE SUSPENSION	LITHONIA # ZL1N L24 3000LM FST MVOLT 40K 80CRI WH ZACVH	COOPER, PHILIPS	SUSPEND	LED, 4000K	59	120	
HE	SAME AS "H" BUT WITH INTEGRAL BATTERY	LITHONIA # ZL1N L24 3000LM FST MVOLT 40K 80CRI E7W WH ZACVH	COOPER, PHILIPS	SUSPEND	LED, 4000K	59	120	
K	2'x4' LAY-IN WET LOCATION TROFFER WITH ALUMINUM DOOR FRAME, FLAT FROSTED ACRYLIC LENS, IP65 LISTING	LITHONIA # 2WRTLG L48 7000LM 0AW AFL MVOLT 40K 80CRI	COOPER, PHILIPS	SURFACE	LED, 4000K	59	120	
KE	SAME AS 'K' EXCEPT WITH INTEGRAL BATTERY	LITHONIA # 2WRTLG L48 7000LM 0AW AFL MVOLT EZ1 40K 80CRI	COOPER, PHILIPS	SURFACE	LED, 4000K	59	120	
L	2x2 LED LAY-IN FIXTURE	LITHONIA # 2SBSL2 40L RW MVOLT EZ1 LP840	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	36	120	
LE	SAME AS "L" EXCEPT WITH INTEGRAL BATTERY	LITHONIA # 2SBSL2 40L RW MVOLT EZ1 LP840 EL14L	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	36	120	
M	DECORATIVE PENDANT	VISA # CP5732PSX L40K 24VDC XX DALI MVOLT	COOPER, PHILIPS	RECESSED, GRID	LED, 4000K	37	120	
OL1	EXTERIOR WALL PACK	LITHONIA # DSXW1 LED 10C 1000 40K TFTM MVOLT DDL	COOPER, PHILIPS	SURFACE	LED, 4000K	39	120	
OL1E	SAME AS "OL1" EXCEPT WITH INTEGRAL BATTERY	LITHONIA # DSXW1 LED 10C 1000 40K TFTM MVOLT DDL EM	COOPER, PHILIPS	SURFACE	LED, 4000K	39	120	
OL2	EXTERIOR WALL PACK	LITHONIA # CSXW LED 30C 1000 40K TFTM MVOLT DDL	COOPER, PHILIPS	SURFACE	LED, 4000K	104	120	
OL2E	SAME AS "OL2" EXCEPT WITH INTEGRAL BATTERY	LITHONIA # CSXW LED 30C 1000 40K TFTM MVOLT DDL EM	COOPER, PHILIPS	SURFACE	LED, 4000K	104	120	
OL3	EXTERIOR POLE-MOUNTED AREA LIGHT	LITHONIA # DSX2 LED P3 40K T3M MVOLT SPA SSS 30	COOPER, PHILIPS	POLE	LED, 4000K	217	208	
OL4	SAME AS "OL3" BUT WITH FORWARD THROW AND P4 LUMEN PACKAGE	LITHONIA # DSX2 LED P4 40K T3M MVOLT SPA SSS 30	COOPER, PHILIPS	POLE	LED, 4000K	270	208	
OL5	EXTERIOR POLE-MOUNTED DOUBLE-HEAD AREA LIGHT	LITHONIA # DSX2 LED P8 40K T5W MVOLT SPA SSS 30	COOPER, PHILIPS	POLE	LED, 4000K	431	208	
P1	LED HIGH BAY WITH PRISMATIC GLASS REFRACTOR, CAST ALUMINUM HEAT SINK AND WIREGUARD	HOLOPHANE # PHG 30L 4K 80CRI AS W WGG D WG	COOPER, PHILIPS	PENDANT	LED, 4000K	245	120	
P2	PENDANT LED CYLINDER WITH DIM BLACK DRIVER	GOTHAM # ICO CYL 40 60 6AR LD 70D MVOLT EZB	COOPER, PHILIPS	PENDANT	LED, 4000K	37	120	
V1	ABOVE MIRROR LED FIXTURE	OXYGEN #3583	WACL WS-40726 AL	SURFACE	LED, 4000K	59	120	
X1	SINGLE FACE, TRITIUM EXIT SIGNS	LITHONIA # D S W 1 R 20	COOPER, PHILIPS	UNIVERSAL	LED	2	120	
X2	SAME AS 'X1' EXCEPT DOUBLE FACE	LITHONIA # D S W 2 R 20	COOPER, PHILIPS	UNIVERSAL	LED	2	120	



3 GYMNASIUM/CAFETERIA MOTOR CONTROL PANEL DETAIL
SCALE: NONE

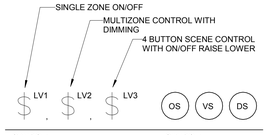
GENERAL NOTES (LUMINAIRE SCHEDULE):

A. ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.
B. WHERE LUMINAIRES ARE SHOWN SPLIT-WIRED (HALF EMERGENCY POWER/ HALF NORMAL POWER) ON FLOOR PLANS, LUMINAIRES SHALL BE PROVIDED WITH MULTIPLE ELECTRONIC BALLASTS FOR MULTIPLE POWER CIRCUITS AS INDICATED ON FLOOR PLANS.
C. PROVIDE BALLASTS FOR FIXTURE LAMP SWITCHING AS INDICATED ON LIGHTING FLOOR PLANS. WHERE A SINGLE FIXTURE IS POWERED FROM NORMAL AND EMERGENCY POWER, HALF OF THE LAMPS WITH A MINIMUM OF TWO LAMPS SHALL BE ON EMERGENCY POWER.
D. CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.
E. ALL LAY-IN FIXTURES SHALL BE PROVIDED WITH SCREW ON HOLD DOWN CLIPS AND MAXIMUM 6'-0" LONG FLEXIBLE CONDUIT WHIPS.
F. EXIT SIGNS AND FIXTURES THAT ARE HATCHED OR WHERE THE FIXTURE TYPE CONTAINS THE SUFFIX "E" FOR EMERGENCY OPERATION SHALL HAVE AN INTEGRAL 90 MINUTE BATTERY INVERTER IF NOT POWERED FROM AN EMERGENCY GENERATOR.
G. ALL BATTERY POWERED FIXTURES SHALL HAVE TEST SWITCHES FACTORY INSTALLED INTEGRAL TO THE REFLECTOR, REMOTE TEST SWITCHES WILL NOT BE ACCEPTED.

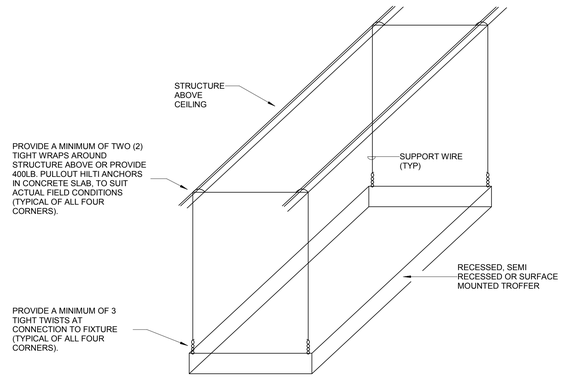


OCCUPANCY/VACANCY/DAYLIGHT SENSOR GENERAL NOTES :

1. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF OCCUPANCY SENSOR PRIOR TO ROUGH-IN. THIS DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
2. ALL POWER PACKS TO BE LOCATED IN CONCEALED LOCATIONS ABOVE ACCESSIBLE CEILINGS.
3. ALL UNITS TO BE DUAL TECHNOLOGY SENSORS WITH POWER PACKS.
4. PROVIDE J-HOOKS ON 4' CENTERS ABOVE CEILING FOR ALL CONTROL CABLING INDICATED BETWEEN RELAYS.
5. CONTRACTOR SHALL PROVIDE AN EXTRA 10' OF CONTROL WIRING COILED UP ABOVE CEILING AT OCCUPANCY SENSOR.
6. WHERE MULTIPLE CIRCUITS SERVE ONE AREA, CONTRACTOR SHALL PROVIDE ADDITIONAL RELAY PACKS AS REQUIRED TO CONTROL ALL CIRCUITS IN ROOM TOGETHER. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR WIRING REQUIREMENTS.
7. WHERE MULTIPLE SENSORS AND MULTIPLE POWER PACKS ARE REQUIRED IN ONE ROOM, CONTRACTOR SHALL CONNECT SENSORS AND POWER PACKS SUCH THAT MOTION DETECTION BY ANY SENSOR IN THE ROOM SHALL ALLOW ALL CIRCUITS IN THE ROOM TO OPERATE. PROVIDE ALL ACCESSORIES AND WIRE DEVICES PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AS DESCRIBED.
8. SYSTEM SHALL BE SENSOR SWITCH nLIGHT OR WATTSTOPPER DLM EQUAL. SYSTEM SHALL BE PROVIDED, WIRED AND CONTROLLED AS A COMPLETE AND OPERABLE SYSTEM.
9. OCC SENSORS SHALL BE DUAL TECHNOLOGY (PIR AND ULTRASONIC) CEILING OR WALL TYPE. WHERE INDICATED AS WALL TYPE, PROVIDE WITH WITH RECESS BACKBOX, STUB-OUT AND GROMMETED COVERPLATE FOR CABLING. PROVIDE WITH ADDITIONAL EMS RELAY FOR BUILDING MANAGEMENT.
10. DAYLIGHT SENSOR OPERATION: DEVICE SHALL BE SET TO MAINTAIN 50FC. LOW DIMMING RANGE SHALL BE SET LOWER THAN 30% OF FIXTURES OUTPUT LEVEL. TRANSITION OFF TIME SHALL BE SET AT 10 MINUTES. TRANSITION ON TIME SHALL BE 45 SEC. SYSTEM SHALL BE "BURNT" IN FOR 100 HOURS. SYSTEM SHALL BE CONFIGURED AND TESTED PRIOR TO END OF PROJECT.

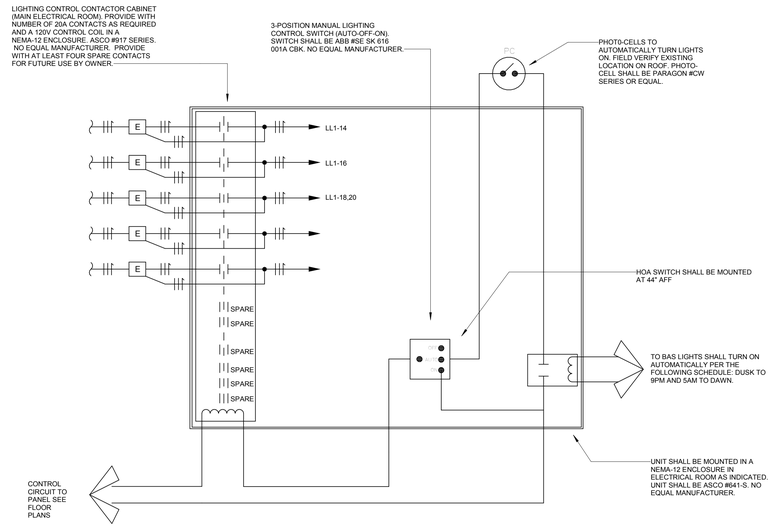


2 OCCUPANCY/VACANCY/DAYLIGHT SENSOR LIGHTING CONTROL WIRING DIAGRAM
SCALE: NONE



GENERAL TROFFER SUPPORT DETAIL NOTES:
1. SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1055 INCHES IN DIAMETER (12 GAGE).
2. ALTERNATELY, CONTRACTOR MAY SUPPORT FIXTURES WITH SINGLE WIRE FROM ALL FOUR CORNERS OF FIXTURE PER SPECIFICATIONS WITH NUMBER OF TWISTS AT FIXTURE AND NUMBER OF WRAPS AROUND STRUCTURE INDICATED IN THIS DETAIL.

1 TROFFER SUPPORT DETAIL
SCALE: NONE



4 OUTDOOR LIGHTING CONTROL SCHEMATIC
SCALE: NONE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA
1501 Reliance Street, Prospect, Kentucky 40059
502.228.4444 FAX 502.228.4445
Bill Mahan, P.E. Bill Wolff, Intermediate

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ELECTRICAL DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E6.0

1569 PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
E6.0 ELECTRICAL DETAILS.dwg
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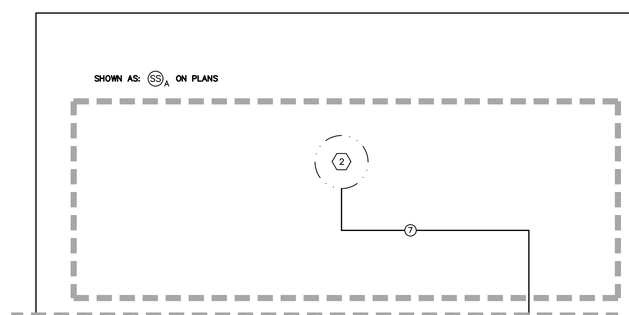

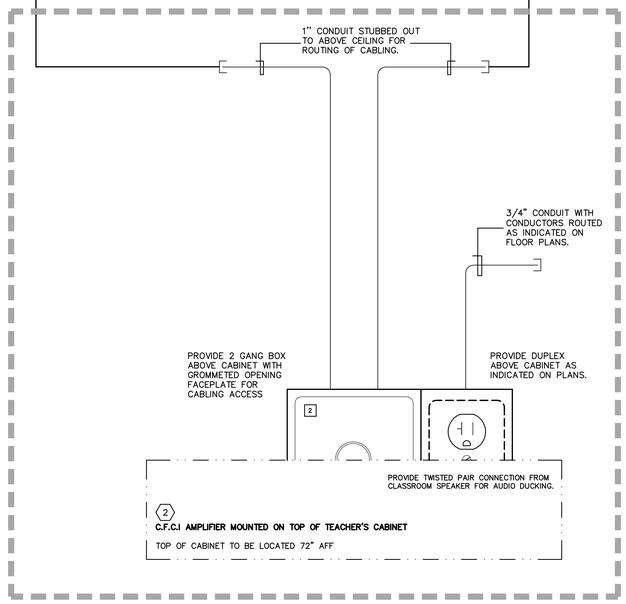

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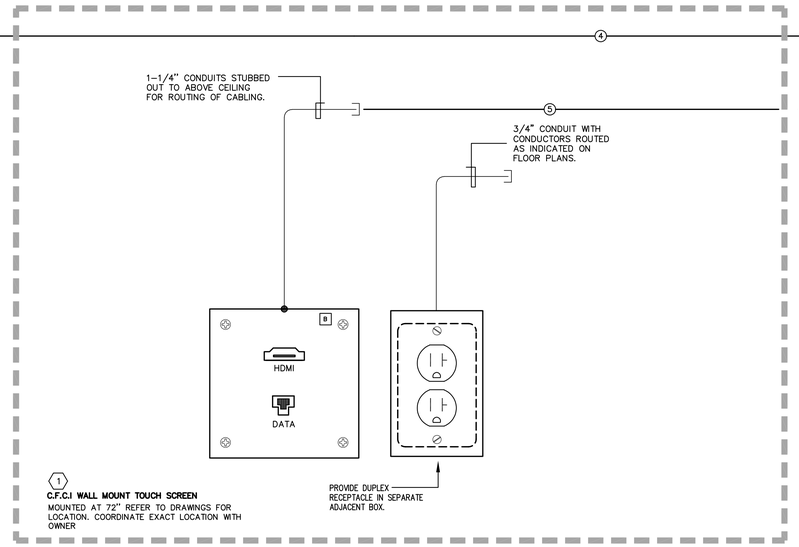


C.F.C.I WALLPLATES:

PLATE #	DESCRIPTION
1	HDMI + 3.5mm + DECORA WALL PLATE – ALUMINUM. CABLES TO GO #60044. WITH HDMI DIGITAL PASS-THROUGH WALL PLATE. CABLES TO GO #40365.
2	EMPTY TWO-GANG, 2-1/2" DEEP BOX WITH 2" SPLIT PLATE GROMMETED OPENING.

C.F.C.I EQUIPMENT:

PLATE #	DESCRIPTION
1	WALL MOUNT TOUCH PANEL – CLEAR TOUCH CTI-6075UUH20 75"6000U SERIES INTERACTIVE PANEL W/20 POINTS OF TOUCH.
2	C.F.C.I CLASSROOM SOUND SYSTEM – LIGHTSPEED TEK 955 ACCESS SYSTEM WITH TWO (2) FLEXMIKE'S AND ONE (1) CHARGER, ONE (1) TCO MULTIMEDIA CEILING SPEAKER

C.F.C.I CONDUCTORS AND CONNECTORS:

RUN #	DESCRIPTION
1	3.5mm STEREO SHIELDED AUDIO CALBE, MALE-MALE, 6'-0"
2	HDMI, MALE-MALE, 6'-0"
3	3.5mm STEREO SHIELDED AUDIO CALBE, MALE-MALE (CONTRACTOR TO DETERMINE LENGTH OF CABLE)
4	3.5mm STEREO SHIELDED AUDIO CALBE, MALE-MALE, 6'-0" (CONTRACTOR TO DETERMINE LENGTH OF CABLE FROM WALL PLATE TO AMPLIFIER)
5	HDMI, MALE-MALE (CONTRACTOR TO DETERMINE LENGTH OF CABLE, HDMI BOOSTER SHALL BE PROVIDED IF CABLE LENGTH IS LONGER THAN 50')
6	BELDEN #8761 OR WEST PENN #291 AUDIO CABLE, 22-AWG, 1-PAIR, SHIELDED (CONTRACTOR TO DETERMINE LENGTH)

C.F.C.I WALLPLATES:

PLATE #	DESCRIPTION
A	WALL PLATE – AUDIO/VIDEO (DOUBLE GANG, STAINLESS) (1) 3.5MM STEREO FEMALE (1) HMDI FEEDTHRU FEMALE (1) RJ-45 NETWORK JACK (1) RJ-45 VOICE JACK 2-1/2" DEEP BOX, (2) 1-1/4" CONDUIT STUBBED TO ABOVE CEILING.
B	WALL PLATE – AUDIO/VIDEO (DOUBLE GANG, STAINLESS) (1) HMDI FEEDTHRU FEMALE (1) RJ-45 NETWORK JACK 2-1/2" DEEP BOX, (2) 1-1/4" CONDUIT STUBBED TO ABOVE CEILING.

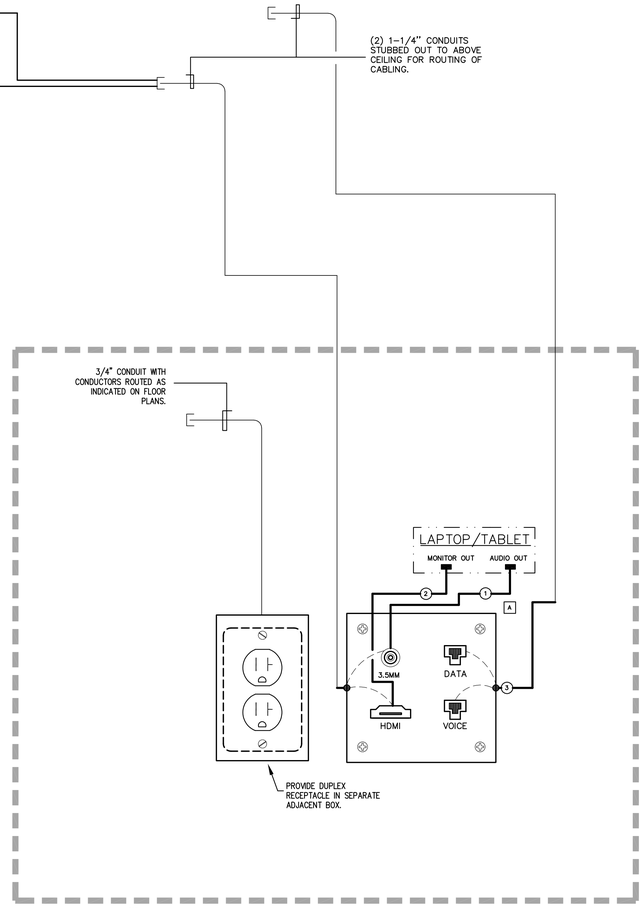
PROVIDE BRIDAL RINGS ON MIN. 4'-0 CENTERS FOR CABLE SUPPORT

EXACT MOUNTING HEIGHTS OF ALL EQUIPMENT AND ASSOCIATED ROUGH-INS ARE TO BE COORDINATE WITH OWNER/ENGINEER PRIOR TO ROUGH-IN.

WIFI MODULE – WIRELESS ANDROID CARD CTI-WFMOD-11AC AND STREAM WIRELESS 5 MEGAPIXEL DOCUMENT CAMERA – DC-STREAM SHALL BE PROVIDE WITH EVERY TOUCH PANEL. COORDINATE EXACT NUMBER WITH OWNER PRIOR TO BID.

THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR HOURS OF INSTRUCTIONAL TIME TO THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND COMPONENTS. A RECEIPT SHALL BE OBTAINED FROM THE OWNER THAT THIS HAS BEEN ACCOMPLISHED, AND A COPY FORWARDED TO THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO VIDEO THE IN-SERVICE TRAINING AND PROVIDE THIS VIDEO IN DIGITAL FORMAT TO THE OWNER AS PART OF THE CLOSE OUT DOCUMENTATION.

CONTRACTOR SHALL REFER TO ALL MANUFACTURERS INSTALLATION INSTRUCTIONS



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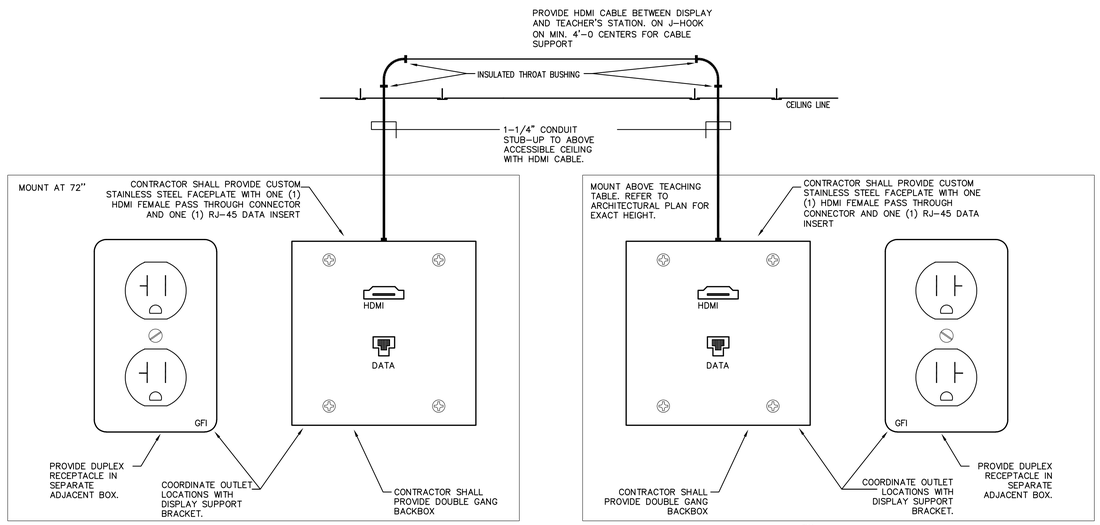
(MOUNT OUTLETS ABOVE TEACHERS DESK COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS)

1 C.F.C.I CLASSROOM AUDIO VISUAL SYSTEM INSTALLATION SCHEMATIC
SCALE: NONE



1 TYPICAL RESOURCE DISPLAY INSTALLATION DETAIL
SCALE: NONE

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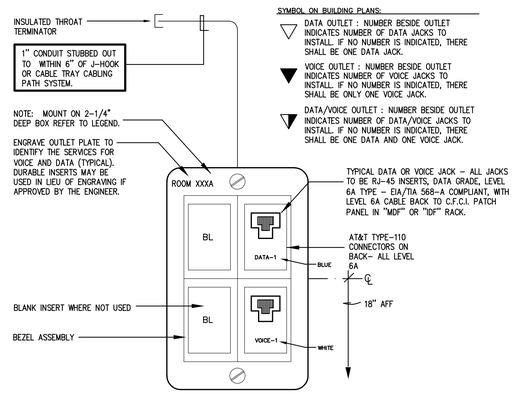

2 DETAIL OF TYPICAL WALLPLATE TYPES FOR DATA/VOICE SYSTEMS
SCALE: NONE

FINAL DOCUMENTS

SHERMAN CARTER BARNHART ARCHITECTS

CMTA

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ELECTRICAL DETAILS

JOB NO.	1569
DATE	07/10/2019
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REVISIONS

No.	Description	Date

SHEET

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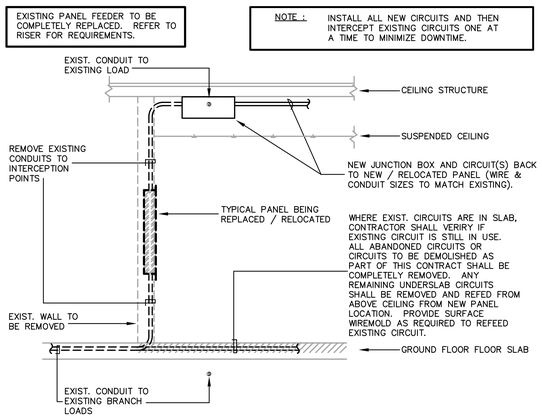
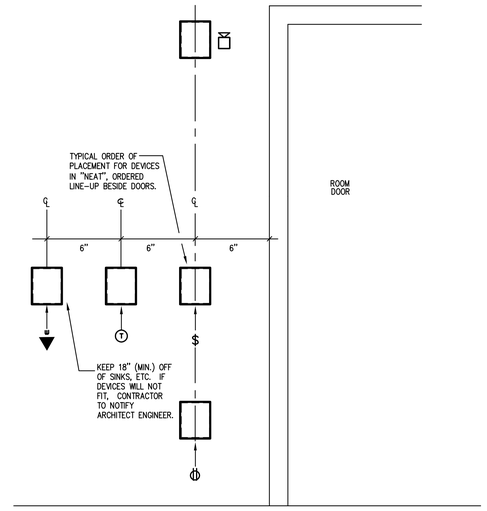


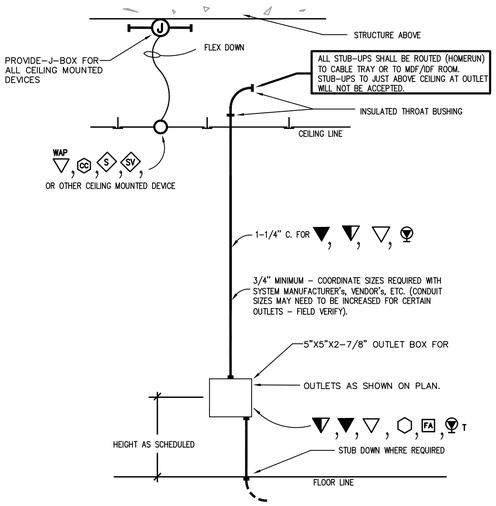
7 PANEL REPLACEMENT / RELOCATION DETAIL
SCALE: NONE



GENERAL NOTES :

A. ALL DEVICES ON THE PROJECT SHALL LINE UP VERTICALLY AND HORIZONTALLY. IF DISCREPANCIES ARISE, NOTIFY THE ENGINEER PRIOR TO INSTALLATION SO RESOLUTION CAN BE DETERMINED.

3 OUTLET COORDINATION DETAIL
SCALE: NONE



2 ROUGHING-IN DETAIL FOR STUB-OUTS
SCALE: NONE

TAGGED NOTES :

1. PROVIDE NEW SURFACE MOUNTED, MICROPROCESSOR BASED, FIRE ALARM TRANSPONDER PANEL / CENTRAL PROCESSING UNIT (C.P.U.). PANEL SHALL BE CAPABLE OF MONITORING ALL INDIVIDUALLY ADDRESSABLE ALARM INDICATING DEVICES OR POINTS AS INDICATED AND WITH A MINIMUM OF 20% SPARE CAPACITY FOR FUTURE EXPANSION. ALL SYSTEM EQUIPMENT SHALL BE HOUSED IN A SINGLE CABINET. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. NEW REMOTE FLUSH-MOUNTED FIRE ALARM ANNUNCIATOR STATION WITH LCD DISPLAY. SEE FLOOR PLANS FOR LOCATIONS AND QUANTITY.
3. TO ALL OTHER DEVICES ON LOOP/CIRCUIT AS REQUIRED. REFER TO FLOOR PLAN FOR PROPOSED DEVICE LOCATIONS.
4. PROVIDE PHONE LINE TO REMOTE REPORTING DIALER FOR CENTRAL STATION REPORTING AS REQUIRED PER NFPA. COORDINATE WITH OWNER AND CENTRAL RECEIVING STATION AS REQUIRED.
5. PROVIDE ZONE ADDRESSABLE MODULE FOR SUPERVISION OF ANCILLARY FIRE PROTECTION/MONITORING SYSTEMS. DEVICE SHALL BE SURFACE MOUNTED IN NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING. PROVIDE QUANTITY AND TYPE AS REQUIRED FOR;
   5.1. FIRE PROTECTION TAMPER AND FLOW SWITCHES.
   5.2. FIRE PROTECTION POST-INDICATOR VALVE.
   5.3. DRY/CHEMICAL FIRE SUPPRESSION SYSTEMS.
   5.4. KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
   5.5. KNOX-BOXES.
6. PROVIDE ADDRESSABLE FIRE ALARM RELAY FOR SIGNAL OUTPUT TO ANCILLARY BUILDING SYSTEMS. DEVICE SHALL BE SURFACE MOUNTED IN NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING. PROVIDE QUANTITY AND TYPE AS REQUIRED FOR:
   6.1. OPERABLE FIRE SHUTTERS TO CLOSE ON FIRE ALARM.
   6.2. ACCESS CONTROL DOORS TO UNLOCK AND POSITIVELY LATCH ON FIRE ALARM.
   6.3. ELEVATOR FOR ALL SPECIFIED AND REQUIRED FUNCTIONS.
7. ROUTE CONTROL WIRING (IN CONDUIT) BACK TO NEW HVAC EQUIPMENT CONTROLS FOR AUTOMATIC SHUTDOWN.
8. TO ALL OTHER DOOR HOLDERS ON INDICATED FLOOR. DOOR HOLDERS SHALL BE POWERED FROM THE FIRE ALARM SYSTEM CABINETS AND SHALL RELEASE ON FIRE ALARM AS REQUIRED. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULES FOR ADDITIONAL REQUIREMENTS.
9. PROVIDE NEW FLUSH-MOUNTED REMOTE ALARM/POWER INDICATING KEY RESET/TEST STATION ON CORRIDOR WALL (WHENEVER POSSIBLE) AT 7'- 6" AFF BELOW SMOKE DAMPER/DUCT SMOKE DETECTOR LOCATION AS REQUIRED.
10. PROVIDE AN "ISOLATOR MODULE" AT ALL BRANCH RUNS. MOUNT IN A SURFACE NEMA-1 ENCLOSURE ABOVE THE SUSPENDED CEILING. PROVIDE AS REQUIRED BY SYSTEM MANUFACTURER TO ISOLATE LOOPS ON EACH FLOOR AND WITHIN EACH SMOKE COMPARTMENT.
11. ROUTE 120V POWER WIRING THROUGH ADDRESSABLE RELAY MODULE FOR CONTROL OF DAMPER VIA ASSOCIATED DUCT/AREA SMOKE DETECTOR.
12. PROVIDE NUMBER OF NOTIFICATION APPLIANCE POWER SUPPLIES AS REQUIRED. LOCATE IN ELECTRICAL ROOMS. SUBMIT PROPOSED LOCATIONS IN SHOP DRAWINGS FOR REVIEW.
13. PROVIDE SURGE PROTECTION DEVICE AT POINT OF CONDUIT ENTRANCE INTO BUILDING. PROVIDE 5/8" X 10'-0" COPPER-WELD GROUND ROD AT PERIMETER OF BUILDING NEXT TO CONDUIT ENTRANCE AND CONNECT TO SPD'S, COLD WATER LINE, AND BUILDING STEEL WITH #3 INSULATED GROUND IN 3/4" CONDUIT.
14. PROVIDE SEPARATE, DEDICATED CIRCUIT FOR CARBON MONOXIDE ALARMS. A CARBON MONOXIDE ALARM SHALL INDICATE AS A SUPERVISORY SIGNAL ONLY AND SHALL NOT INITIATE A FIRE ALARM. SINGLE-STATION ALARMS IN EACH SLEEPING UNIT SHALL BE CONNECTED TO ALL OTHER SINGLE-STATION ALARMS IN THE UNIT. WHEN ANY DETECTOR ALARMS, ALL DETECTORS ON THE UNIT SHALL ALARM.
15. PROVIDE ETHERNET IP CONNECTION TO OWNER'S NETWORK FOR REPORTING/LOGGING. COORDINATE WITH OWNER PRIOR TO CONSTRUCTION.
16. PROVIDE GRAPHIC DISPLAY TERMINAL PC WITH LCD MONITOR AND ATTACHED HISTORICAL PRINTER. SEE FLOOR PLANS FOR LOCATION.

GENERAL FIRE ALARM SYSTEM RISER NOTES :

A. THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "FACP" UNITS ARE NOT SHOWN). THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE FIRE ALARM SYSTEM.

B. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS.

C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

D. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR COMPLETE INSTALLATION OF A CONNECTION TO EXISTING PROTECTION SWITCHES.

E. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.

F. TAP SPEAKERS TO PROVIDE SUFFICIENT AUDIBILITY FOR AREA SERVED.

G. SMOKE DETECTOR SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS. NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.

H. AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (UON). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

I. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'6" AFF ON WALL IN AREA BELOW DETECTOR.

J. RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR AUTHORITY HAVING JURISDICTION.

K. PROVIDE FIRE ALARM MANUFACTURER WITH LOCATION DESCRIPTIONS FOR ALL FIRE ALARM DEVICES AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR PREPROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE DESCRIPTIONS WITH BUILDING OWNER. UTILIZE FINAL ROOM NAMES AND NUMBERS, NOT NAMES AND NUMBERS FROM FLOOR PLANS.

L. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.

M. MODIFY AND/OR EXPAND EXISTING CONTROL PANEL(S) AND ANNUNCIATOR(S) TO ACCOMMODATE AS REQUIRED TO SUPPORT ADDITIONAL DEVICES SHOWN. FURNISH AND INSTALL ANY MODULES OR EQUIPMENT NECESSARY TO EXPAND SYSTEM. EXISTING ANNUNCIATOR(S) AND CONTROL PANEL(S) SHALL BE UPDATED TO DISPLAY TROUBLES AND ALARM LOCATIONS FOR ALL NEW ZONES.

N. PROVIDE CONNECTIONS TO NEW ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH SUCCESSFUL DOOR HARDWARE MANUFACTURER PRIOR TO CONSTRUCTION.

O. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

P. PROVIDE APPROVED TESTING AND REQUIRED CERTIFICATION OF SYSTEM COMPONENTS AND PROVE OPERATION OF SYSTEM FOR THE AREA OF WORK WHEN COMPLETE.

Q. WIRING TO ALL FIRE ALARM DEVICES SHALL BE PER NEC AND MANUFACTURER'S RECOMMENDATIONS. ALL WIRING SHALL BE ROUTED IN CONDUIT. CONDUIT SHALL BE 3/4" MINIMUM AND SHALL BE RED IN COLOR.

R. ALL NEW DEVICES INDICATED, SUCH AS SMOKE DETECTORS, NOTIFICATION APPLIANCES, ETC., SHALL MATCH AND BE COMPATIBLE WITH EXISTING BUILDING SYSTEM.

S. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO EMERGENCY LIFE-SAFETY BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.

T. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

U. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

V. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS, ELECTRICAL APPROVALS, AND APPROVALS FROM THE STATE OFFICE OF FIRE SAFETY OR AUTHORITY HAVING JURISDICTION (AHJ). THIS INCLUDES PREPARING DRAWINGS, CUTSHEETS, AND OTHER DOCUMENTATION REQUIRED BY THE AHJ OR FIRE ALARM EQUIPMENT MANUFACTURER. A COPY OF THESE REQUIREMENTS SHALL BE OBTAINED FROM AHJ. THE DRAWINGS SHALL BE PREPARED AS A FINAL SUBMITTAL OBTAINED FROM AHJ. THE DRAWINGS SHALL BE PREPARED AS A FINAL SUBMITTAL AS OUTLINED IN THE SUBMITTAL REQUIREMENTS. ELECTRONIC COPIES OF THESE PLANS REQUIRED FOR THIS PURPOSE MAY BE OBTAINED FROM THE ENGINEER. DRAWINGS THAT ARE REQUIRED FOR APPROVAL SHALL BE FINISHED WITHIN 7 WORKING DAYS OF AWARD OF CONTRACT.

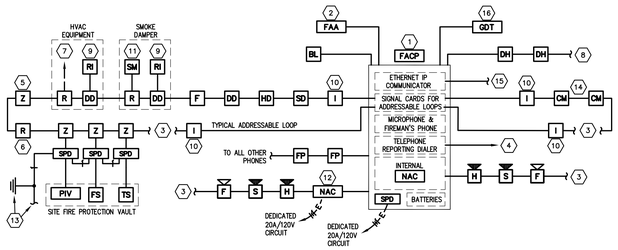
W. WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER & ENGINEER AT CLOSE OF PROJECT.

X. A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.

Y. CONTRACTOR SHALL MONITOR TROUBLES ON EXISTING PANEL EQUIPMENT ON A DAILY BASIS. WHERE A TROUBLE IS INDICATED, IT SHALL BE REPORTED TO THE OWNER AND CONSTRUCTION SHALL STOP UNTIL TROUBLE IS RESOLVED UNLESS OTHERWISE INDICATED BY OWNER.

Z. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.

AA. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.



1 FIRE ALARM RISER
SCALE: NONE

FIRE ALARM PHASING / GENERAL NOTES :

- CONTRACTOR SHALL NOTIFY MCPS BEFORE ANY SHUT DOWN OF THE FIRE ALARM SYSTEM CAUSING THE BUILDING TO BE UNMONITORED.
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL CEILING MOUNTED DEVICES AS REQUIRED TO ALLOW FOR DEMOLITION OF CEILINGS TO PROCEED PRIOR TO COMPLETION OF FIRE ALARM WORK.
- EXPOSED ROUTINGS SHALL BE IN WIREMOLD WITH TWO HOLE SUPPORTS PER SPECIFICATIONS AND PAINTED IN A PROFESSIONAL MANNER TO MATCH EXISTING SURFACE USING TWO (2) COATS. ALL CONCEALED ROUTINGS AND ROUTINGS IN UNFINISHED AREAS SHALL BE IN RED CONDUIT.
- CONTRACTORS SHALL FOLLOW THE PRIORITY LIST BELOW IN ROUTING RACEWAY VERTICALLY TO THE DEVICES INDICATED:

  1) FISH WALLS AND CONCEAL VERTICAL ROUTINGS TO DEVICE.

  2) IF RECESSED BOX AND CONCEALED CONDUIT TO EXISTING DEVICE EXISTS, CONTRACTOR SHALL REUSE. IF NEW MOUNTING HEIGHT IS REQUIRED, PROVIDE WIREMOLD SURFACE MOUNTED BOX ON EXISTING RECESSED BOX AND EXTEND WIREMOLD SURFACE RACEWAY TO WIREMOLD SURFACE MOUNTED BOX AT NEW DEVICE.

  3) PROVIDE WIREMOLD SURFACE RACEWAY TO WIREMOLD SURFACE MOUNTED BOX AT NEW DEVICE LOCATION. CONTRACTOR SHALL FIELD VERIFY BEST LOCATIONS FOR VERITCAL DROPS WITH EXISTING CONDITIONS. VERTICAL RUNS OF SURFACE MOUNTED RACEWAYS SHALL BE MOUNTED IN CORNERS OF ROOMS WHENEVER POSSIBLE. FIELD VERIFY MOST INCONSPICUOUS ROUTE FOR RACEWAYS PRIOR TO CONSTRUCTION. PAINT SURFACE RACEWAYS TO MATCH ADJACENT SURFACES AS REQUIRED.
- THE FIRE ALARM SYSTEM FOR THE BUILDING SHALL REMAIN FULLY FUNCTIONAL AT ALL TIMES THOUGHOUT THE PROJECT. THE CONTRACTOR MAY INSTALL THE NEW FIRE ALARM PANEL AND MONITOR THE EXISTING PANEL TO ALLOW FOR AREAS OF WORK TO BE PHASED OFF OF THE EXISTING SYSTEM AND ONTO THE NEW SYSTEM. IF AT ANY TIME THE EXISITNG SYSTEM IS INADVERTENTLY DEACTIVATED, THE CONTRACTOR SHALL NOTIFY MCPS AND PROVIDE A 24 HOUR FIRE WATCH AS REQUIRED UNTIL THE SYSTEM IS REINITIATED. SYSTEM SHALL BE COMPLETELY OPERATIONAL WHEN THE CONTRACTOR LEAVES THE SITE EACH DAY.
- NO EXPOSED CABLING SHALL BE ALLOWED IN ANY SITUATION.
- LOCATE ALL POWER EXTENDER PANELS IN ACCESSIBLE LOCATIONS IN MECH/STORAGE ROOMS. LABEL ALL CIRCUITS INTERNAL TO PANEL AND ON AS-BUILTS WITH ROOM NUMBERS.
- CONTRACTOR SHALL COORDINATE EXACT MOUNTING LOCATIONS WITH EXISTING TEACHING BOARDS, DEVICES, ETC. IN ALL LOCATIONS. FIELD VERIFY BEST MOUNTING LOCATION IN CLOSE VICINITY OF DEVICE LOCATION INDICATED.
- PATCH, REPAIR AND PAINT EXISTING WALLS CEILINGS ETC. THAT ARE TO REMAIN WHEN DAMAGED DURING THE CONSTRUCTION PROCESS.
- LOCATIONS OF DEVICES, CONNECTIONS, ETC. INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO WORK ON ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THE SITES AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES. ALL CONTRACTORS SHALL GIVE OWNER 24 HOURS NOTICE PRIOR TO SUCH A VISIT.
- CONTRACTOR SHALL REMOVE ALL FURNITURE, LOCKERS, FILES, ETC. REQUIRED TO FACILITATE HIS WORK. AFTER ALL WORK IS COMPLETED, CONTRACTOR SHALL RETURN FURNITURE, ETC. TO IT'S ORIGINAL LOCATION. IF FURNITURE, LOCKERS, FILES, ETC. IS NOT TO BE RE- INSTALLED, CONTRACTOR SHALL PATCH FLOORS, WALLS, CEILINGS, ETC. AND PAINT TO MATCH ADJACENT SURFACES.

- CONTRACTOR SHALL MAINTAIN EXISTING FIRE ALARM SYSTEM UNTIL NEW SYSTEM IS COMPLETELY INSTALLED AN OPERATIONAL. TROUBLES SHALL BE IMMEDIATELY ADDRESSED. CONTRACTOR SHALL PROVIDE WEEKLY WRITTEN REPORT TO THE OWNER AND ENGINEER INDICATING STATUS OF SYSTEM AND REPAIRS THAT WERE ADDRESSED. EXISTING SYSTEM SHALL BE MAINTAINED/BACKFED OR ALL NEW DEVICES SHALL BE INSTALLED AS PART OF PHASE A. CONSTRUCTION WILL BE HALTED WHEN EXISTING DEVICES ARE NOT MAINTAINED DURING CONSTRUCTION. OWNER RESERVES RIGHT TO BRING IN INDEPENDENT FA VENDOR TO MAKE REPAIRS AT CONTRACTORS EXPENSE WHERE SYSTEM AND DEVICES IS NOT MAINTAINED IN A TROUBLE FREE STATE.

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ELECTRICAL DETAILS

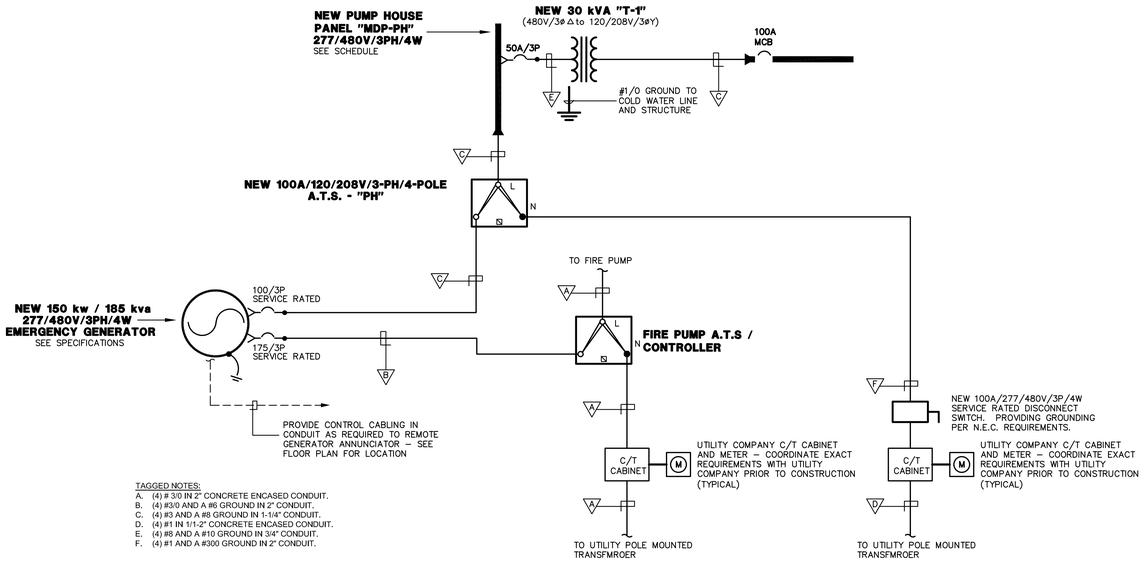
JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

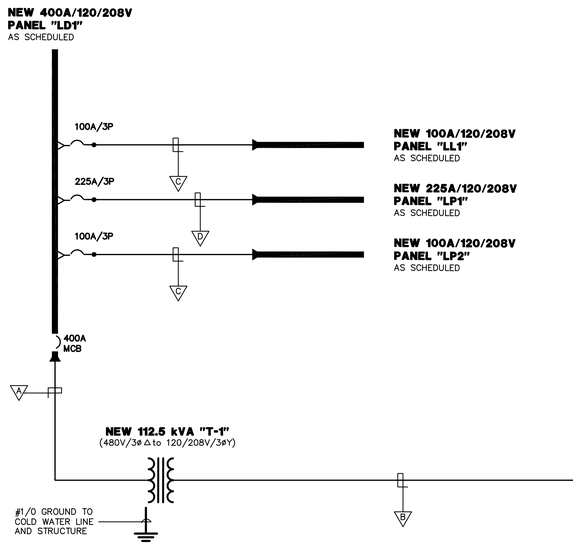
SHEET

E6.2



TAGGED NOTES:
A. (4) # 3/0 IN 2" CONCRETE ENCASED CONDUIT.
B. (4) #3/0 AND A #6 GROUND IN 2" CONDUIT.
C. (4) #3 AND A #8 GROUND IN 1-1/4" CONDUIT.
D. (4) #1 IN 1/1-2" CONCRETE ENCASED CONDUIT.
E. (4) #8 AND A #10 GROUND IN 3/4" CONDUIT.
F. (4) #1 AND A #300 GROUND IN 2" CONDUIT.

POWER RISER - PUMP HOUSE



TAGGED NOTES:
A. 2 PARALLEL RUNS OF (4) #3/0 AND A #3 GROUND IN 2" CONDUIT.
B. (3) #2/0 AND A #6 GROUND IN 2" CONDUIT.
C. (4) #3 AND A #8 GROUND IN 1-1/4" CONDUIT.
D. (4) #4/0 AND A #4 GROUND IN 2" CONDUIT.

POWER RISER

GENERAL POWER RISER NOTES :

A. ALL NEW CONDUCTORS SHALL BE COPPER (SEE SPECIFICATIONS FOR TYPES).

B. REFER TO DETAIL FOR TYPICAL PANEL LABELING REQUIREMENTS.

C. ALL "1-LINE" PANELS SHALL BE AS SCHEDULED ON THIS RISER (EXCEPT WHERE INDICATED, THE CONTRACTOR SHALL REFER TO THE PANELBOARD SCHEDULES FOR COMPLETE BREAKER SCHEDULE).

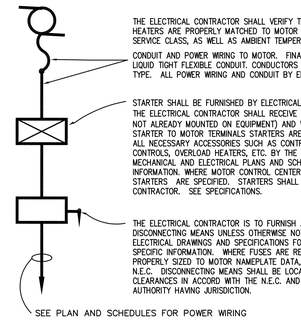
D. SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT-CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A TYPE-WRITTEN ADHESIVE LABEL WITH WHITE BACKGROUND, 1/2" HIGH BLACK LETTERING.

E. AS PART OF THIS CONTRACT, PROVIDE A COMPREHENSIVE ARC FLASH HAZARD ANALYSIS FOR POWER DISTRIBUTION DEVICES ON THIS PROJECT. PROVIDE ALL LABELS, WARNING SIGNAGE, ETC. PER NFPA-70E AND OSHA REQUIREMENTS. ALL LABELS SHALL BE AFFIXED PRIOR TO FINAL ELECTRICAL INSPECTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARDING OF THE PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS.

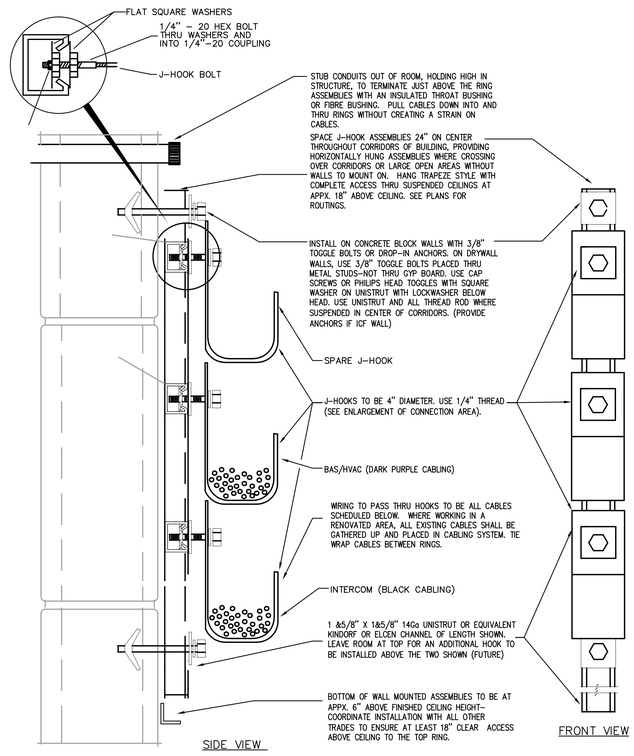
F. CONTRACTOR SHALL INSTALL SEPARATE CONDUITS, PULL BOXES, ETC. FOR EACH EMERGENCY POWER BRANCH & NORMAL POWER PER N.E.C. §517-30 (C)(1) FOR COMPLETE SEPARATION OF POWER SERVICES.

G. ALL CIRCUIT BREAKERS AND/OR DISCONNECTS SERVING THE PRIMARY SIDE OF A TRANSFORMER WHICH ARE NOT WITHIN SITE OF THE TRANSFORMER SHALL BE PROVIDED WITH PERMANENTLY INSTALLED MEANS TO LOCK THE BREAKER IN THE OFF POSITION. SUCH TRANSFORMERS SHALL HAVE THE ROOM NAME AND NUMBER OF THE PRIMARY DISCONNECTING MEANS ENGRAVED ON THE EQUIPMENT NAMEPLATE.

H. AS PART OF THIS CONTRACT, PROVIDE A COORDINATION/FAULT CURRENT STUDY FOR BREAKERS ON THIS PROJECT. STUDY SHALL BE PERFORMED BY THE EQUIPMENT MANUFACTURER AND SHALL INCLUDE ALL MAINS AND FEEDERS SHOWN ON THESE DRAWINGS AND SHALL EXTEND TO THE MAIN LUGS OR BREAKER OF THE FURTHEST DEVICE DOWNSTREAM. ALL NEW BREAKERS ON THE EMERGENCY POWER SYSTEM (ALL BRANCHES), ALL FIRE PUMP OVER-CURRENT PROTECTION DEVICES, AND ATS FEEDER BREAKERS IN NORMAL POWER SWITCHBOARD SHALL BE SELECTIVELY COORDINATED TO 0.1 SECONDS PER NEC (NFPA-70) §700.25. EQUIPMENT PRESENTLY SHOWN IS THE BASIS OF DESIGN - OTHER MANUFACTURERS LISTED AS EQUALS MAY NEED TO MODIFY LAYOUTS AND EQUIPMENT IN ORDER TO MEET THIS REQUIREMENT. ALL MANUFACTURERS MUST UTILIZE ELECTRONIC TRIP BREAKERS WITH ADJUSTABLE TRIP SETTINGS WHERE REQUIRED TO MEET SELECTIVE COORDINATION REQUIREMENTS. WHERE MODIFICATION TO EQUIPMENT INDICATED ON THESE DRAWINGS IS REQUIRED IN ORDER TO ACHIEVE COORDINATION, THESE CHANGES SHALL BE CLEARLY NOTED IN THE STUDY. WHERE ACTUAL BREAKER AMPACITIES ARE INCREASED TO ACHIEVE COORDINATION, THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL COST ASSOCIATED WITH THESE CHANGES IN THEIR BID (INCLUDING INCREASES IN FEEDER SIZES). SUBMIT STUDY AS SHOP DRAWING TO ENGINEER PRIOR TO ORDERING ANY POWER DISTRIBUTION EQUIPMENT. ANY EQUIPMENT SUBMITTED PRIOR TO SUBMISSION OF THIS STUDY WILL NOT BE REVIEWED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARDING OF THE PROJECT AS REQUIRED TO COMPLETE THE STUDY.



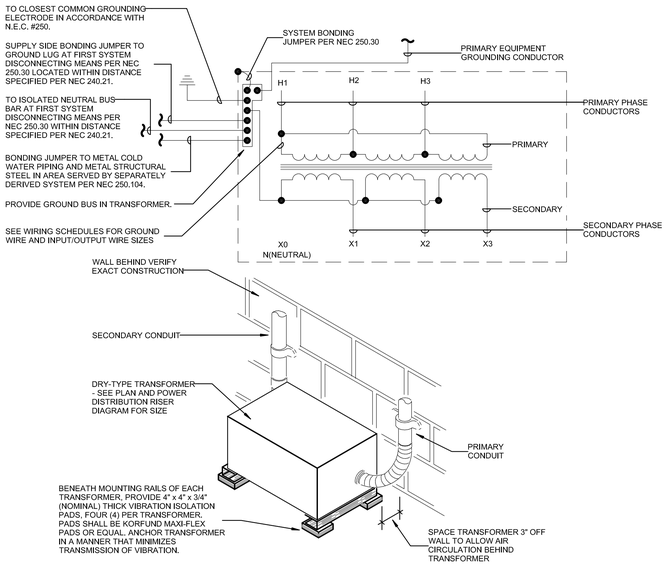
2 DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION
SCALE: NONE



CABLING SEPARATION REQUIREMENTS

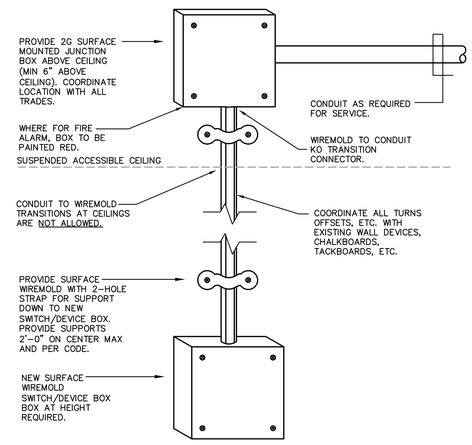
- HVAC CONTROL CABLES MUST BE ROUTED IN DEDICATED J-HOOKS AND MUST BE SUPPORTED ON 4' MAXIMUM CENTERS. NO OTHER CABLING SHALL BE ROUTED IN SAME RINGS. HVAC CONTROL CABLES SHALL BE INSTALLED BY CONTROLS CONTRACTOR, J-HOOKS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- INTERCOM CATEGORY CABLES SHALL BE ROUTED IN THE SAME J-HOOK AND MUST BE SUPPORTED ON 2' MAXIMUM CENTERS. NO OTHER CABLING SHALL BE ROUTED IN SAME J-HOOKS.
- ALL NEW CABLING SHALL BE ROUTED IN NEW J-HOOK PATHWAYS. PROVIDE J-HOOKS AS REQUIRED.
- PROVIDE CABLE PATHS AS REQUIRED BY SYSTEMS. J-HOOKS SHALL NOT EXCEED MORE THAN 40 PERCENT FILL. ADD ADDITIONAL J-HOOKS AS NEEDED.

6 J-HOOK INSTALLATION DETAIL
SCALE: NONE



GENERAL NOTES:
A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.
B. ALL FLOOR - MOUNTED TRANSFORMERS SHALL HAVE A 4" HIGH REINFORCED CONCRETE PAD.

4 DETAIL OF TYPICAL DRY-TYPE TRANSFORMER INSTALLATION
SCALE: NONE



1 TYPICAL WIREMOLD DEVICE INSTALLATION
SCALE: NONE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ELECTRICAL DETAILS

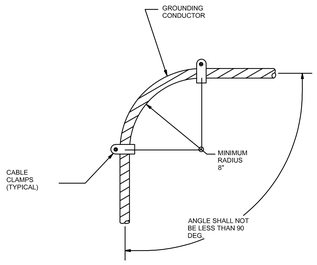
JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

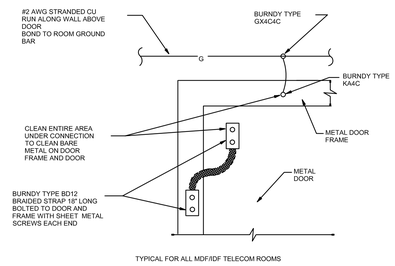
No.	Description	Date

SHEET

E6.3

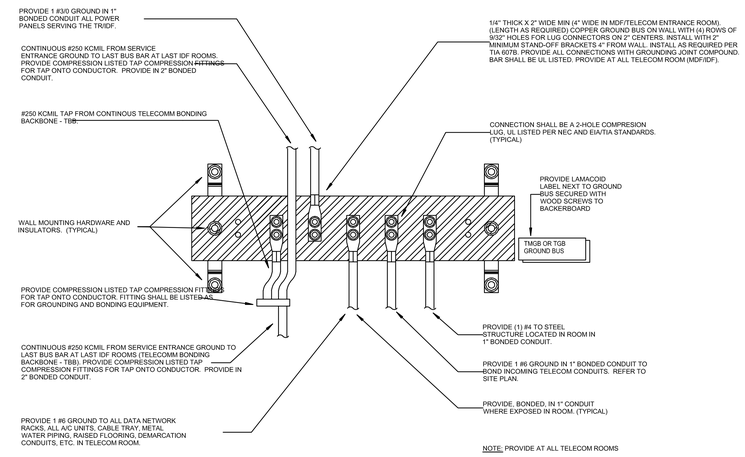


3 CONDUCTOR BEND RADIUS DETAIL
SCALE: NONE

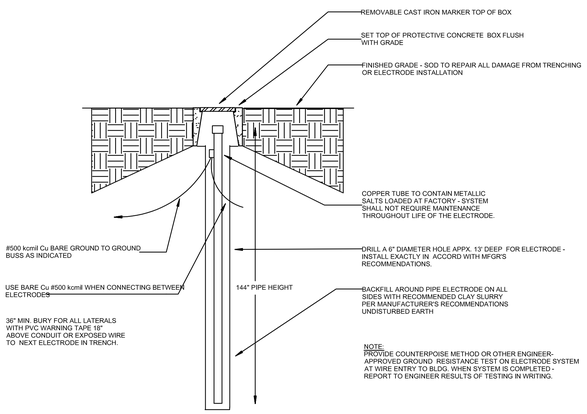


TYPICAL FOR ALL MDF/IDF TELECOM ROOMS

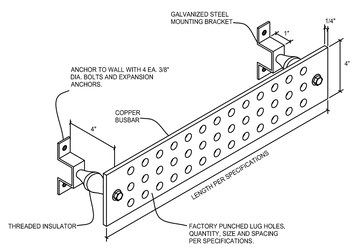
2 METAL DOOR GROUNDING DETAIL
SCALE: NONE



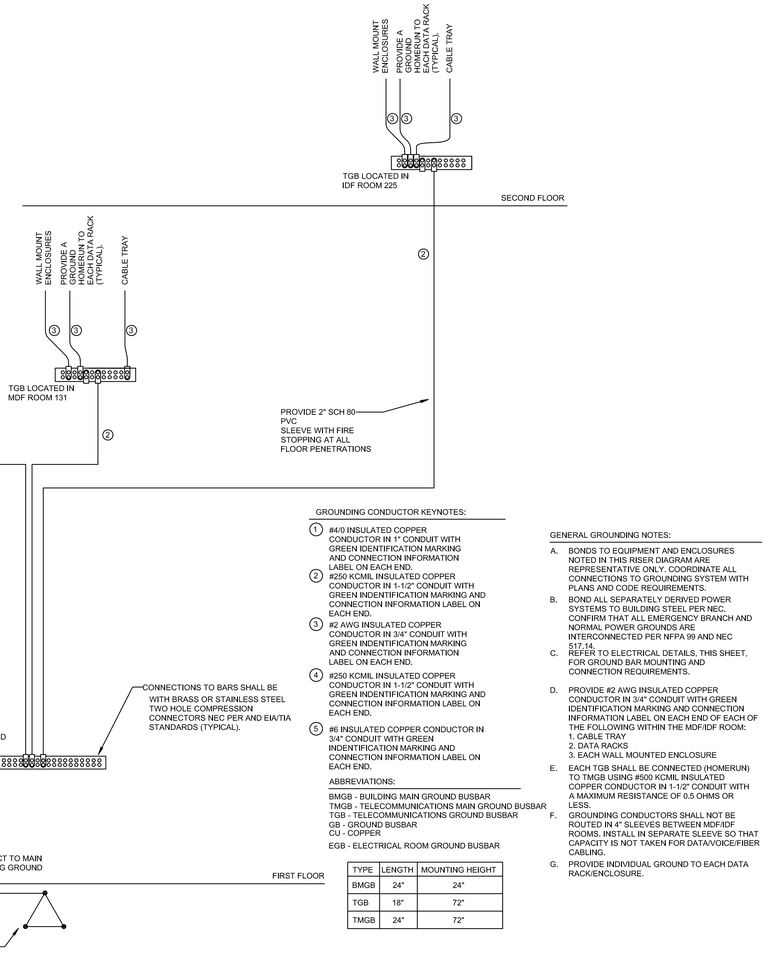
1 TELECOM GROUNDING BUS BAR DETAIL (TGMB & TGB)
SCALE: NONE



5 CHEMICAL GROUND ROD
SCALE: NONE



4 GROUND BUS BAR MOUNTING
SCALE: NONE



7 ELECTRICAL GROUNDING RISER DIAGRAM
SCALE: NONE

GROUNDING CONDUCTOR KEYNOTES:

1. #4/0 INSULATED COPPER CONDUCTOR IN 1" CONDUIT WITH GREEN IDENTIFICATION MARKING AND CONNECTION INFORMATION LABEL ON EACH END.
2. #250 KCMIL INSULATED COPPER CONDUCTOR IN 1-1/2" CONDUIT WITH GREEN INDENTIFICATION MARKING AND CONNECTION INFORMATION LABEL ON EACH END.
3. #2 AWG INSULATED COPPER CONDUCTOR IN 3/4" CONDUIT WITH GREEN INDENTIFICATION MARKING AND CONNECTION INFORMATION LABEL ON EACH END.
4. #250 KCMIL INSULATED COPPER CONDUCTOR IN 1-1/2" CONDUIT WITH GREEN INDENTIFICATION MARKING AND CONNECTION INFORMATION LABEL ON EACH END.
5. #6 INSULATED COPPER CONDUCTOR IN 3/4" CONDUIT WITH GREEN INDENTIFICATION MARKING AND CONNECTION INFORMATION LABEL ON EACH END.

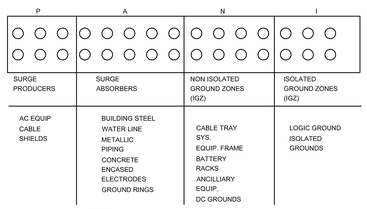
ABBREVIATIONS:

BMGB - BUILDING MAIN GROUND BUSBAR
TMGB - TELECOMMUNICATIONS MAIN GROUND BUSBAR
TGB - TELECOMMUNICATIONS GROUND BUSBAR
GB - GROUND BUSBAR
CU - COPPER
EGB - ELECTRICAL ROOM GROUND BUSBAR

TYPE	LENGTH	MOUNTING HEIGHT
BMGB	24"	24"
TGB	18"	72"
TMGB	24"	72"

GENERAL GROUNDING NOTES:

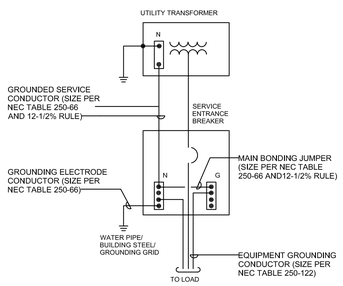
A. BONDS TO EQUIPMENT AND ENCLOSURES NOTED IN THIS RISER DIAGRAM ARE REPRESENTATIVE ONLY. COORDINATE ALL CONNECTIONS TO GROUNDING SYSTEM WITH PLANS AND CODE REQUIREMENTS.
B. BOND ALL SEPARATELY DERIVED POWER SYSTEMS TO BUILDING STEEL PER NEC. CONFIRM THAT ALL EMERGENCY BRANCH AND NORMAL POWER GROUNDS ARE INTERCONNECTED PER NFPA 99 AND NEC 517.14.
C. REFER TO ELECTRICAL DETAILS, THIS SHEET, FOR GROUND BAR MOUNTING AND CONNECTION REQUIREMENTS.
D. PROVIDE #2 AWG INSULATED COPPER CONDUCTOR IN 3/4" CONDUIT WITH GREEN IDENTIFICATION MARKING AND CONNECTION INFORMATION LABEL ON EACH END OF EACH OF THE FOLLOWING WITHIN THE MDF/IDF ROOM:
1. CABLE TRAY
2. DATA RACKS
3. EACH WALL MOUNTED ENCLOSURE
E. EACH TGB SHALL BE CONNECTED (HOMERUN) TO TMGB USING #500 KCMIL INSULATED COPPER CONDUCTOR IN 1-1/2" CONDUIT WITH A MAXIMUM RESISTANCE OF 0.5 OHMS OR LESS.
F. GROUNDING CONDUCTORS SHALL NOT BE ROUTED IN 4" SLEEVES BETWEEN MDF/IDF ROOMS. INSTALL IN SEPARATE SLEEVE SO THAT CAPACITY IS NOT TAKEN FOR DATA/VOICE/FIBER CABLING.
G. PROVIDE INDIVIDUAL GROUND TO EACH DATA RACK/ENCLOSURE.



NOTE:

CONNECTIONS TO GROUND BUSBARS SHALL BE GROUPED BY THE TYPE OF CONNECTION. BUS BARS SHALL BE LOGICALLY DIVIDED INTO 4 AREAS AS SHOWN.

8 GROUND BUS BAR CONFIGURATION
SCALE: NONE



6 SERVICE ENTRANCE GROUNDING DETAIL
SCALE: NONE

SHERMAN CARTER BARNHART ARCHITECTS

FINAL DOCUMENTS

CMTA
1861 Wilmington Pike, Kettering, Kentucky 45420
937.643.0626 FAX 937.643.0621 www.cmtaeng.com

PAYNEVILLE ELEMENTARY SCHOOL RENOVATION AND ADDITION
PAYNEVILLE, KY

ELECTRICAL DETAILS

JOB NO.	1569
DATE	07/10/2019
DRAWN	JPR
CHECKED	MLR

REVISIONS

No.	Description	Date

SHEET

E6.4

PANELBOARD AND WIRING SCHEDULE

PANEL: HD1 — **VOLTAGE:** 480Y/277V,3P,4W — **AMPERES:** 400 A — **MAINS TYPE:** — **SPD:** — **MOUNTING:** SURFACE — **AVAILABLE FAULT CURRENT:** 35,000 — **PANEL INTERRUPTING RATING:** — **LOCATION:** MECHANICAL 144 — **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	33.1	1.8		2						
T-LD1				175	3	3		32.1	1.8	4	3	20	3/4	12	12	VHP-24
						5			36.2	1.8	6					
						7	2.6	1.8		8						
VHP-36	12	12	3/4	20	3	9		2.6	1.8	10	3	20	3/4	12	12	VHP-24
						11			2.6	1.8	12					
						13	4.1	2.6		14						
VHP-90	12	12	3/4	20	3	15		4.1	2.6	16	3	20	3/4	12	12	VHP-30
						17			4.1	2.6	18					
						19	2.5	2.9		20	1	20	3/4	12	12	CHP-18
ERV-1 (ROOFTOP)	12	12	3/4	20	3	21			2.5	2.9	22	1	20	3/4	12	12	CHP-18
						23				2.5	2.9	24	1	20	3/4	12	12	CHP-18
						25	1.8	2.9				26	1	20	3/4	12	12	CHP-18
OAU-1	12	12	3/4	20	3	27			1.8	0.0		28	1	20	--	--	--	SPARE
						29					1.8	0.0	30	1	20	--	--	--	SPARE
						31	1.7	1.7				32							
VHP-26	12	12	3/4	20	3	33			1.7	1.7		34	3	20	3/4	12	12	VRC-1
						35					1.7	1.7	36						
						37	1.8	5.7				38							
VHP-24	12	12	3/4	20	3	39			1.8	5.7		40	3	30	3/4	10	10	VHP-120
						41					1.8	5.7	42						
						43	1.8	0.9				44							
VHP-24	12	12	3/4	20	3	45			1.8	0.9		46	3	15	3/4	12	12	P-2
						47					1.8	0.9	48						
						49	5.7	3.1				50							
VHP-120	10	10	3/4	30	3	51			5.7	3.1		52	3	20	3/4	12	12	P-1
						53					5.7	3.1	54						
						55	3.1	5.6				56							
P-1	12	12	3/4	20	3	57			3.1	5.6		58	3	25	3/4	10	10	HPC-1
						59					3.1	5.6	60						
SPARE	--	--	--	20	1	61	0.0	0.0				62	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	63			0.0	0.0		64	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	65					0.0	0.0	66	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	67	0.0	0.0				68	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	69			0.0	0.0		70	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	71					0.0	0.0	72	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	73	0.0	0.0				74	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	75			0.0	0.0		76	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	77					0.0	0.0	78	1	20	--	--	--	SPARE
SPACE	--	--	--	--	--	79	0.0	0.0				80	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	81			0.0	0.0		82	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	83					0.0	0.0	84	--	--	--	--	SPACE	
				TOTAL LOAD (kVA):			87.1 kVA		83.1 kVA			87.3 kVA							
				TOTAL CURRENT (A):			316 A		300 A			317 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	50756 VA	100.00%	50756 VA	TOTAL CONNECTED LOAD:	257462 VA
HVAC	148370 VA	100.00%	148370 VA	TOTAL ESTIMATED DEMAND:	242942 VA
LTNG	19296 VA	100.00%	19296 VA	TOTAL CONNECTED CURRENT:	310 A
REC	39040 VA	62.81%	24520 VA	TOTAL ESTIMATED DEMAND CURRENT:	292 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LD1 — **VOLTAGE:** 208Y/120V,3P,4W — **AMPERES:** 400 A — **MAINS TYPE:** — **SPD:** — **MOUNTING:** SURFACE — **AVAILABLE FAULT CURRENT:** 35,000 — **PANEL INTERRUPTING RATING:** — **LOCATION:** MECHANICAL 144 — **SUPPLY FROM:** T-LD1

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	19.1	8.4		2						
LP1				225	3	3		19.4	5.3	4	3	100				LL1
						5			22.1	6.1	6					
						7	0.1	0.1		8						
AC-2A	12	12	3/4	15	2	9		0.1	0.1	10	2	15	3/4	12	12	AC-1A
						11			0.1	0.1	12					
AC-1B	12	12	3/4	15	2	13	0.1	0.1		14	2	15	3/4	12	12	AC-2B
						15		0.1	0.1	16						
AC-1C	12	12	3/4	15	2	17			0.1	0.1	18	2	15	3/4	12	12	AC-1D
						19	0.1	0.1		20						
AC-3	12	12	3/4	15	2	21		0.1	0.1	22	2	15	3/4	12	12	AC-4
						23			0.1	0.2	24					
AC-2C	12	12	3/4	15	2	25	0.1	0.2		26	2	15	3/4	12	12	ERV-1
						27		0.1	0.2	28						
BB-1	12	12	3/4	15	2	29			0.1	0.2	30	3	20	3/4	12	12	P-3
SPARE	--	--	--	20	1	31	0.0	0.2		32						
SPARE	--	--	--	20	1	33			0.0	4.5	34	2	60	1	10	6	DWH-1
SPARE	--	--	--	20	1	35				0.0	4.5	36						
SPACE	--	--	--	--	--	37	0.0	4.5				38						
SPACE	--	--	--	--	--	39			0.0	2.0		40	3	100				LP2
SPACE	--	--	--	--	--	41					0.0	2.5	42					
				TOTAL LOAD (kVA):			33.1 kVA		32.1 kVA			36.2 kVA				
				TOTAL CURRENT (A):			277 A		267 A			303 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	40436 VA	100.00%	40436 VA	TOTAL CONNECTED LOAD:	101352 VA
HVAC	2580 VA	100.00%	2580 VA	TOTAL ESTIMATED DEMAND:	86832 VA
LTNG	19296 VA	100.00%	19296 VA	TOTAL CONNECTED CURRENT:	281 A
REC	39040 VA	62.81%	24520 VA	TOTAL ESTIMATED DEMAND CURRENT:	241 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MDP-PH — **VOLTAGE:** 480Y/277V,3P,4W — **AMPERES:** 100 A — **MAINS TYPE:** — **SPD:** — **MOUNTING:** SURFACE — **AVAILABLE FAULT CURRENT:** 65,000 — **PANEL INTERRUPTING RATING:** — **LOCATION:** — **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	0.2	3.0		2	1	15	3/4	12	12	UH-1
JOCKEY PUMP	12	12	3/4	20	3	3			0.2	0.0	4	1	20	--	--	--	SPARE
						5					0.2	0.0	6	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	7	0.0	0.0				8	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	9			0.0	0.0		10	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	11					0.0	0.0	12	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	13	0.0	0.0				14	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	15			0.0	0.0		16	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	17					0.0	0.0	18	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	19	0.0	0.0				20	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	21			0.0	0.0		22	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	23					0.0	0.0	24	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	25	0.0	0.0				26	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	27			0.0	0.0		28	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	31	0.0	0.0				32	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	33			0.0	0.0		34	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--	SPARE
SPACE	--	--	--	--	--	37	0.0	0.0				38	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	39			0.0	0.0		40	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	SPACE	
				TOTAL LOAD (kVA):			3.2 kVA		0.2 kVA			0.2 kVA				
				TOTAL CURRENT (A):			11 A		1 A			1 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	3500 VA	100.00%	3500 VA	TOTAL CONNECTED LOAD:	3500 VA
				TOTAL ESTIMATED DEMAND:	3500 VA
				TOTAL CONNECTED CURRENT:	4 A
				TOTAL ESTIMATED DEMAND CURRENT:	4 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LL1 — **VOLTAGE:** 208Y/120V,3P,4W — **AMPERES:** 100 A — **MAINS TYPE:** — **SPD:** — **MOUNTING:** SURFACE — **AVAILABLE FAULT CURRENT:** 18,000 — **PANEL INTERRUPTING RATING:** — **LOCATION:** MECHANICAL 144 — **SUPPLY FROM:** LD1

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
LTG - CONFERENCE 111	12	12	3/4	20	1	1	1.4	2.1		2	1	20	3/4	12	12	LTG - CORRIDOR 112
LTG - MECH ROOM 137	12	12	3/4	20	1	3			0.7	1.2	4	1	20	3/4	12	12	LTG - CORRIDOR 140
LTG - MECH ROOM 144	12	12	3/4	20	1	5					0.9	1.1	6	1	20	3/4	12	12	LTG - KINDERGARTEN 149
LTG - MEDIA LIBRARY 155	12	12	3/4	20	1	7	1.5	0.5				8	1	20	3/4	12	12	LTG - OFFICE/WORKROOM 158	
LTG - GYM 145	12	12	3/4	20	1	9			1.5	1.5			10	1	20	3/4	12	12	LTG - GYM 145
LTG - GYM 145	12	12	3/4	20	1	11					1.5	1.5	12	1	20	3/4	12	12	LTG - GYM 145
LTG - GYM 145	12	12	3/4	20	1	13	0.2	1.5				14	1	20	3/4	12	12	LTG - EXTERIOR	
SPARE	--	--	--	20	1	15			0.0	0.5		16	1	20	3/4	12	12	MONUMENT SIGN	
SPARE	--	--	--	20	1	17					0.0	1.1	18	2	20	3/4	8	8	EXTERIOR AREA LIGHTS
SPARE	--	--	--	20	1	19	0.0	1.1				20							
SPARE	--	--	--	20	1	21			0.0	0.0		22	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	23					0.0	0.0	24	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	25	0.0	0.0				26	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	27			0.0	0.0		28	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	31	0.0	0.0				32	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	33			0.0	0.0		34	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--	SPARE
SPACE	--	--	--	--	--	37	0.0	0.0				38	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	39			0.0	0.0		40	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	SPACE	
				TOTAL LOAD (kVA):			8.4 kVA		5.3 kVA			6.1 kVA				
				TOTAL CURRENT (A):			71 A		44 A			52 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	500 VA	100.00%	500 VA	TOTAL CONNECTED LOAD:	19796 VA
LTNG	19296 VA	100.00%	19296 VA	TOTAL ESTIMATED DEMAND:	19796 VA
				TOTAL CONNECTED CURRENT:	55 A
				TOTAL ESTIMATED DEMAND CURRENT:	55 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LP1 — **VOLTAGE:** 208Y/120V,3P,4W — **AMPERES:** 225 A — **MAINS TYPE:** — **SPD:** — **MOUNTING:** SURFACE — **AVAILABLE FAULT CURRENT:** 18,000 — **PANEL INTERRUPTING RATING:** — **LOCATION:** MECHANICAL 144 — **SUPPLY FROM:** LD1

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
GOAL MOTOR - GYM 145	12	12	3/4	20	1	1	0.5	0.5		2	1	20	3/4	12	12	GOAL MOTOR - GYM 145
GOAL MOTOR - GYM 145	12	12	3/4	20	1	3			0.5	0.5	4	1	20	3/4	12	12	GOAL MOTOR - GYM 145
GOAL MOTOR - GYM 145	12	12	3/4	20	1	5					0.5	0.5	6	1	20	3/4	12	12	GOAL MOTOR - GYM 145
SCOREBOARD - GYM 145	12	12	3/4	20	1	7	0.2	0.2				8	1	20	3/4	12	12	SCOREBOARD - GYM 145	
						9			0.5	0.5			10						
BLEACHERS - GYM 145	12	12	3/4	20	3	11					0.5	0.5	12	3	20	3/4	12	12	BLEACHERS - GYM 145
						13	0.5	0.5				14							
						15			0.5	0.7			16	1	20	3/4	12	12	REC - GYM 145
BLEACHERS - GYM 145	12	12	3/4	20	3	17					0.5	0.5	18	1	20	3/4	12	12	REC - GYM 145
						19	0.5						20						
REC - OFFICE 143	12	12	3/4	20	1	21			0.9	0.9			22	1	20	3/4	12	12	REC - STORAGE 141
REC - KINDERGARTEN 147	12	12	3/4	20	1	23					0.6	0.6	24	1	20	3/4	12	12	REC - KINDERGARTEN 149
REC - KINDERGARTEN 147	12	12	3/4	20	1	25	1.1	1.1				26	1	20	3/4	12	12	REC - KINDERGARTEN 149	
REC - KINDERGARTEN 147	12	12	3/4	20	1	27			0.7	0.7			28	1	20	3/4	12	12	REC - KINDERGARTEN 149
REC - KINDERGARTEN 147	12	12	3/4	20	1	29					0.7	0.7	30	1	20	3/4	12	12	REC - KINDERGARTEN 149
REC - CORRIDOR 140	12	12	3/4	20	1	31	1.1	0.9				32	1	20	3/4	12	12	REC - RESOURCE ROOM 160	
EWC - CORRIDOR 140	12	12	3/4	20	1	33			0.4	0.9			34	1	20	3/4	12	12	REC - RESOURCE ROOM 160
REC - CORRIDOR 112	12	12	3/4	20	1	35					1.3	1.0	36	1	20	3/4	12	12	EWC - CORRIDOR 112
SPACE	--	--	--	--	--	37	0.0	0.2				38	1	20	3/4	12	12	REC - HVAC ROOFTOP UNIT	
SPACE	--	--	--	--	--	39			0.0	0.0			40	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	--	SPACE
REC - EXISTING CLASSROOM 161	12	12	3/4	20	1	43	0.2	0.9				44	1	20	3/4	12	12	REC - FIRST AID 144	
REC - GIRLS 153	12	12	3/4	20	1	45			0.7	0.5			46	1	20	3/4	12	12	REC - RECEPTION 101
HAND DRYER - BOYS 150	12	12	3/4	20	1	47					2.3	1.2	48	1	20	3/4	12	12	COPIER - RECEPTION 101
HAND DRYER - BOYS 150	12	12	3/4	20	1	49	2.3	0.9				50	1	20	3/4	12	12	REC - PRINCIPAL 104	
HAND DRYER - GIRLS 153	12	12	3/4	20	1	51			2.3	0.5			52	1	20	3/4	12	12	REC - FAM RESOURCE 108
HAND DRYER - GIRLS 153	12	12	3/4	20	1	53					2.3	0.7	54	1	20	3/4	12	12	REC - FAM RESOURCE 108
AUTO FAUCETS - STAFF TLT 151	12	12	3/4	20	1	55	0.3	0.9				56	1	20	3/4	12	12	REC - GUIDANCE 106	
AUTO FAUCETS - BOYS 150	12	12	3/4	20	1	57			0.2	0.9			58	1	20	3/4	12	12	REC - GUIDANCE WAITING 107
AUTO FAUCETS - GIRLS 153	12	12	3/4	20	1	59					0.2	1.3	60	1	20	3/4	12	12	REC - OFFICE/FILES 109
AUTO FAUCETS - GIRLS 153	12	12	3/4	20	1	61	0.2	1.3				62	1	20	3/4	12	12	REC - CONFERENCE 111	
HAND DRYER - GIRLS 139	12	12	3/4	20	1	63			2.3	0.8			64	1	20	3/4	12	12	FRIDGE - WORK ROOM 110
HAND DRYER - BOYS 138	12	12	3/4	20	1	65					2.3	0.8	66	1	20	3/4	12	12	FRIDGE - WORK ROOM 110
REC - JAN 138B	12	12	3/4	20	1	67	1.4	1.8				68	1	20	3/4	12	12	COFFEE - WORK ROOM 110	
REC - EXISTING MDF 136	12	12	3/4	20	1	69			0.7	1.2			70	1	20	3/4	12	12	MICROWAVE - WORK ROOM 110
REC - MEDIA LIBRARY 155	12	12	3/4	20	1	71					0.8	1.2	72	1	20	3/4	12	12	COPIER - WORK ROOM 110
REC - MEDIA LIBRARY 155	12	12	3/4	20	1	73	0.7	1.1				74	1	20	3/4	12	12	REC - OFFICE 158	
REC - MEDIA LIBRARY 155	12	12	3/4	20	1	75			0.7	0.7			76	1	20	3/4	12	12	REC - AV ROOM 157
REC - MEDIA LIBRARY 155	12	12	3/4	20	1	77					0.6	0.6	78	1	20	3/4	12	12	REC - AV ROOM 157
SPACE	--	--	--	--	--	79	0.0	0.0				80	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	81			0.0	0.0			82	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	83					0.0	0.0	84	--	--	--	--	--	SPACE
				TOTAL LOAD (kVA):			19.1 kVA		19.4 kVA			22.1 kVA				
				TOTAL CURRENT (A):			159 A		162 A			184 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	26020 VA	100.00%	26020 VA	TOTAL CONNECTED LOAD:	60560 VA
REC	34540 VA	64.48%	22270 VA	TOTAL ESTIMATED DEMAND:	48290 VA
				TOTAL CONNECTED CURRENT:	168 A
				TOTAL ESTIMATED DEMAND CURRENT:	134 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LPPH — **VOLTAGE:** 208Y/120V,3P,4W — **AMPERES:** 100 A — **MAINS TYPE:** — **SPD:** — **MOUNTING:** SURFACE — **AVAILABLE FAULT CURRENT:** 35,000 — **PANEL INTERRUPTING RATING:** — **LOCATION:** — **SUPPLY FROM:**

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	0.2	0.4		2	1	20	3/4	12	12	LTNG PUMPHOUSE
SITE GENERATOR	6	8	1	60	3	3			0.2	0.5	4	1	20	3/4	12	12	REC PUMPHOUSE
						5					0.2	3.0	6	1	20	3/4	12	12	EF-1
SPARE	--	--	--	20	1	7	0.0	0.0				8	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	9			0.0	0.0		10	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	11					0.0	0.0	12	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	13	0.0	0.0				14	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	15			0.0	0.0		16	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	17					0.0	0.0	18	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	19	0.0	0.0				20	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	21			0.0	0.0		22	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	23					0.0	0.0	24	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	25	0.0	0.0				26	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	27			0.0	0.0		28	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	29					0.0	0.0	30	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	31	0.0	0.0				32	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	33			0.0	0.0		34	1	20	--	--	--	SPARE	
SPARE	--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--	SPARE
SPACE	--	--	--	--	--	37	0.0	0.0				38	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	39			0.0	0.0		40	--	--	--	--	--	SPACE	
SPACE	--	--	--	--	--	41					0.0	0.0	42	--	--	--	--	SPACE	
				TOTAL LOAD (kVA):			0.6 kV