BULLITT COUNTY PUBLIC SCHOOLS

DEPARTMENT OF FACILITIES

DANNY CLEMENS, DIRECTOR
GEORGE BROCK, MAINTENANCE SUPERVISOR
THOMAS STOKES, CUSTODIAL SUPERVISOR
ANDREA ROCK, ENERGY MANAGER

MEMO

TO: Dr. Jesse Bacon, Superintendent

FROM: Danny Clemens, Director of Facilities

Date: August 22, 2023

RE: BEHS - Design Development Submission DC

Attached is the BEHS Fine Arts- Design Development document submission for BCPS Board review. This also includes consent for the BG2 specifications of energy design criteria and BG3 probable cost.

I recommend approval of this request.

Attachments:

- *Design Development Drawings- Attached*
- *BG2 - Outline Specifications Energy Design Criteria - Design Development – Attached*
- *BG3-Statement of Probable Cost - Design Development – Attached*

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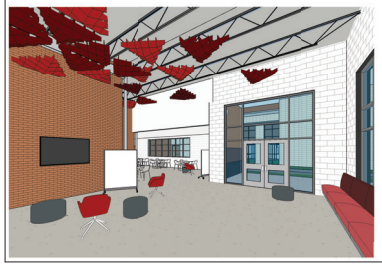
Bullitt County Public Schools

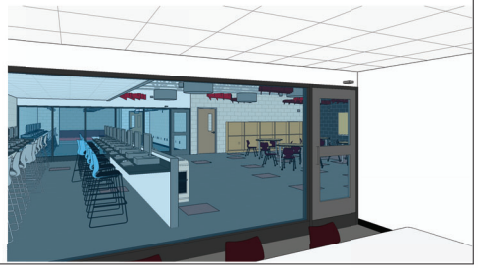
Bullitt East High School – Fine Arts Addition

11450 KY-44
Mt. Washington, KY 40047

ska# 2022-35

100% DESIGN DEVELOPMENT- KDE SUBMISSION





PROJECT TEAM:

ARCHITECT:

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contact: Cate Noble Ward

OWNER:

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contact:

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STRUCTURAL ENGINEER:

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AUDITORIUM CONSULTANT:

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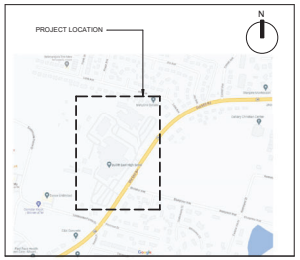
contact: Todd Berling

MEP ENGINEER:

CMTA, Inc.
10411 Meeting Street
Prospect, KY 40059
502.326.3085
contact: Jeremy Lewis

VICINITY MAP



CODE INFORMATION:

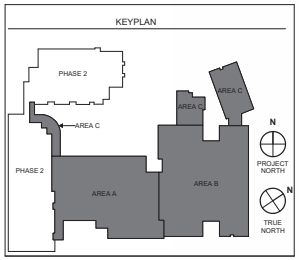
BASED UPON 2018 KENTUCKY BUILDING CODE

USE GROUP: E

CONSTRUCTION TYPE: 2B

*REFER TO G1.00 AND G1.01 LIFE SAFETY PLAN FOR ADDITIONAL CODE INFORMATION.

PROJECT LOCATION



LIST OF DRAWINGS:

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G0.00 COVER SHEET
G1.00 LIFE SAFETY PLAN- OVERALL CAMPUS
G1.01 LIFE SAFETY PLAN- PHASE 1

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C1.1 SITE LAYOUT - FINE ARTS ADDITION
C1.2 SITE LAYOUT -NEW PARKING AREAS
C2.1 GRADING & DRAINAGE - FINE ARTS ADDITION
C2.2 GRADING & DRAINAGE - NEW PARKING AREAS

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S1.2 GENERAL NOTES CONTINUED
S1.3 SPECIAL INSPECTIONS
S1.4 ISOMETRIC VIEWS
S1.5 ISOMETRIC VIEWS
S2.1 FOUNDATION PLAN - AREA A
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S2.3 SECOND FLOOR/LOW ROOF FRAMING PLAN - AREA A
S2.4 SECOND FLOOR/LOW ROOF FRAMING - AREA B
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S2.6 HIGH ROOF FRAMING PLAN - AREA B
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A1.12 FIRST FLOOR PLAN- AREA B
A1.13 FIRST FLOOR PLAN- AREA C
A1.21 CLERESTORY PLAN- AREA A
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A2.00 EXTERIOR ELEVATIONS
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A3.00 BUILDING SECTIONS
A3.01 BUILDING SECTIONS
A3.02 BUILDING SECTIONS
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A4.01 ENLARGED PLANS & INT. ELEV. - RESTROOMS
A4.02 ENLARGED PLANS & INT. ELEV. - RESTROOMS
A4.10 ENLARGED PLANS - FINE ARTS CLASSROOMS
A4.11 ENLARGED PLANS - AUDITORIUM LOBBY
A4.12 ENLARGED PLANS - BAND AND VOCAL MUSIC
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A4.15 ENLARGED PLANS - CAFETERIA COMMONS
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A4.17 ENLARGED PLAN- DIGITAL MEDIA
A4.18 ENLARGED PLANS - FLEX AREAS
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A6.00 ACCESS CONTROL PLAN
A6.01 DOOR SCHEDULE AND DETAILS
A7.01 INTERIOR ELEVATIONS - AUD. LOBBY
A7.02 INTERIOR ELEVATIONS - CAFETERIA COMMONS
A7.03 INTERIOR ELEVATIONS - CAFETERIA COMMONS
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A7.05 INTERIOR ELEVATIONS - DIGITAL MEDIA
A7.06 INTERIOR ELEVATIONS - AREA C

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TH1.1 STAGE RIGGING SYSTEMS
TH2.0 STAGE LIGHTING SYSTEMS
TH2.1 STAGE LIGHTING SYSTEMS
TH2.2 STAGE LIGHTING SYSTEMS
TH2.3 STAGE LIGHTING SYSTEMS
TH3.0 AV SYSTEM
TH3.1 AV SYSTEM
TH3.2 AV SYSTEM
TH3.3 AV SYSTEM
TH3.4 AV SYSTEM
TH3.5 AV SYSTEM
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TH4.0 SEATING SYSTEMS
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FP1.0 FIRE PROTECTION LEGEND AND DETAILS
FP2.0 FIRST FLOOR PLAN - FIRE PROTECTION

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P1.1 PLUMBING DETAILS
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P2.1C FIRST FLOOR PLAN - PLUMBING - BELOWSLAB DEMOLITION - AREA C
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M2.1B FIRST FLOOR PLAN - AIR DISTRIBUTION DEMOLITION - AREA B
M2.1C FIRST FLOOR PLAN - AIR DISTRIBUTION DEMOLITION - AREA C
M2.2B FIRST FLOOR PLAN - HYDRONICS DEMOLITION - AREA B
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M3.1B FIRST FLOOR PLAN - AIR DISTRIBUTION NEW WORK - AREA B
M3.1C FIRST FLOOR PLAN - AIR DISTRIBUTION NEW WORK - AREA C
M3.2B MECHANICAL ROOF PLAN - NEW WORK - AREA B
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M4.1B FIRST FLOOR PLAN - HYDRONICS NEW WORK - AREA B
M4.1C FIRST FLOOR PLAN - HYDRONICS NEW WORK - AREA C
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M5.1 ENLARGED MECHANICAL ROOM PLANS - HYDRONICS
M5.2 ENLARGED MECHANICAL MEZZANINE PLAN - AIR DISTRIBUTION
M5.3 ENLARGED MECHANICAL MEZZANINE PLAN - HYDRONICS
M6.0 MECHANICAL PIPING SCHEMATICS
M7.0 MECHANICAL DETAILS
M7.1 MECHANICAL DETAILS
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UM1.0 MECHANICAL SITE PLAN
UM1.1 MECHANICAL SITE DETAILS

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E3.1A LIGHTING PLAN - AREA A
E3.1B LIGHTING PLAN - AREA B
E3.1C1 LIGHTING PLAN - AREA C1
E3.1C2 LIGHTING PLAN - AREA C2
E3.1D LIGHTING PLAN - AREA D
E4.1A POWER/SYSTEMS PLAN - AREA A
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E4.1C2 POWER/SYSTEMS PLAN - AREA C2
E4.2 PARTIAL ROOF PLAN - ELECTRICAL
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E5.2 ENLARGED KITCHEN - ELECTRICAL
E5.3L ENLARGED AUDITORIUM - LIGHTING
E5.3U ENLARGED UPPER LEVEL AUDITORIUM - LIGHTING
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E5.4U ENLARGED UPPER LEVEL AUDITORIUM - POWER
E5.5 AUDITORIUM AV SCHEDULES AND DETAILS
E6.0 OVERALL INTERCONNECTION PLAN - ELECTRICAL
E6.1 OVERALL INTERCONNECTIONS PLAN - SYSTEMS
E7.0 ELECTRICAL RISER DEMOLITION
E7.1 ELECTRICAL RISER
E8.0 ELECTRICAL DETAILS AND SCHEDULES
E8.1 ELECTRICAL DETAILS AND SCHEDULES
E8.2 ELECTRICAL DETAILS AND SCHEDULES
E8.3 ELECTRICAL DETAILS AND SCHEDULES
E8.4 ELECTRICAL DETAILS AND SCHEDULES
E8.5 ELECTRICAL DETAILS AND SCHEDULES
UE1.0 SITE UTILITY PLAN - DEMOLITION
UE1.1 SITE UTILITY PLAN - ELECTRICAL

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T1.0 TECHNOLOGY LEGEND
T2.1A PARTIAL FIRST FLOOR - TECHNOLOGY DEMOLITION - AREA A
T2.1B PARTIAL FIRST FLOOR - TECHNOLOGY DEMOLITION - AREA B
T2.1C PARTIAL FIRST FLOOR - TECHNOLOGY DEMOLITION - AREA C
T3.1A TECHNOLOGY PLAN - AREA A
T3.1B TECHNOLOGY PLAN - AREA B
T3.1C1 TECHNOLOGY PLAN - AREA C1
T3.2 OVERALL FLOOR PLAN - LOW VOLTAGE INTERCONNECTION
T4.0 ELECTRICAL TECHNOLOGY DETAILS
T4.1 ELECTRICAL TECHNOLOGY DETAILS

studio kremer architects
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t/f: 502.499.1100 / 502.499.1101

BG MOVING FORWARD

COVER SHEET

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

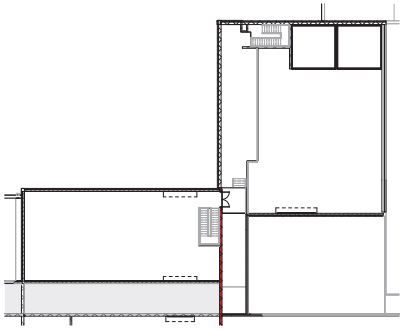
BG# 23-050

DATE : 07/24/2023
DRAWN BY : MG/SS
CHECKED BY : SKA
REVISIONS :

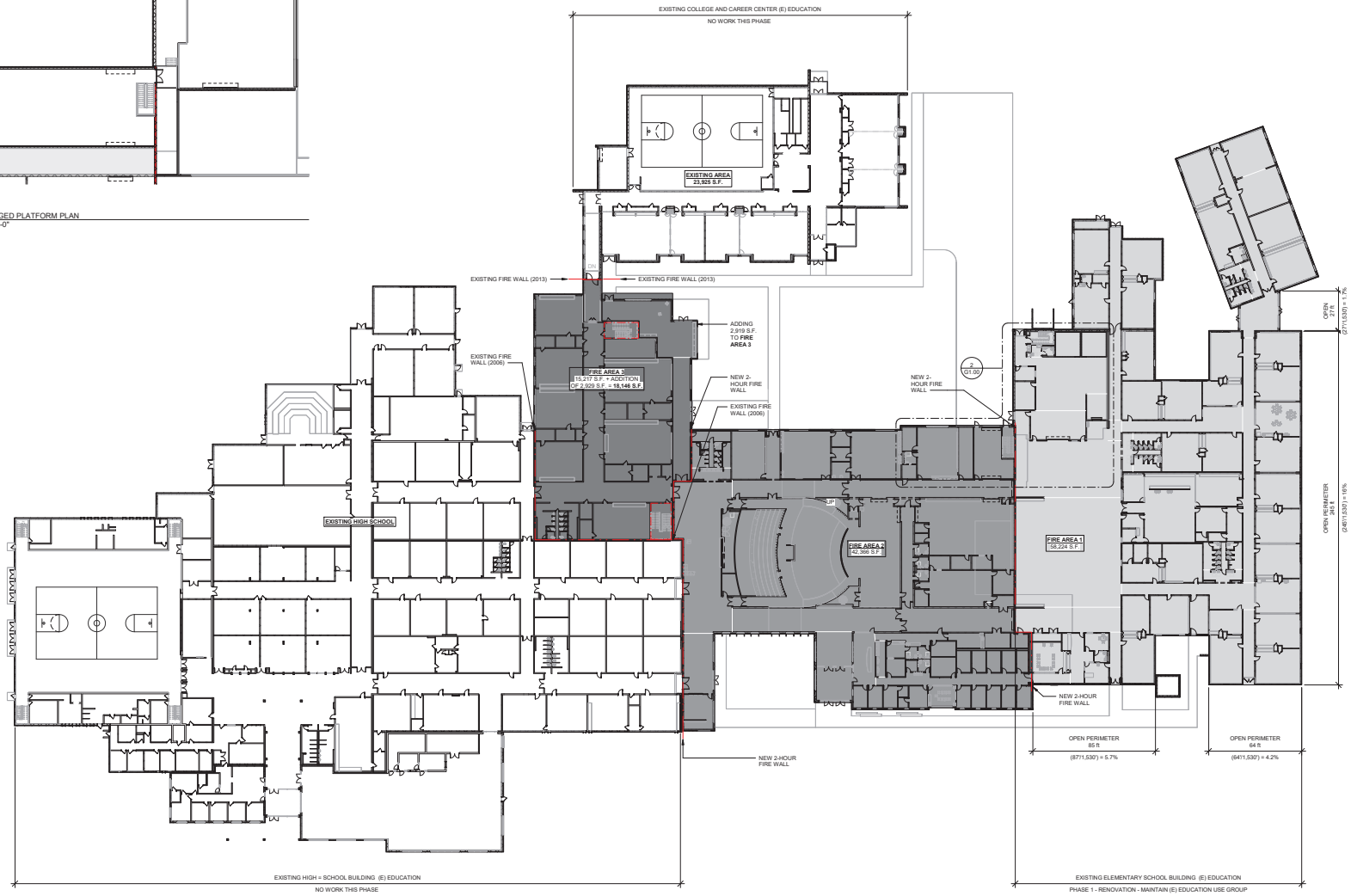
2022-35

G0.00

100% DESIGN DEVELOPMENT



2 ENLARGED PLATFORM PLAN
1" = 20'-0"



1 FIRST FLOOR PLAN- OVERALL CAMPUS
1" = 30'-0"

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MOVING FORWARD

100% DESIGN DEVELOPMENT

LIFE SAFETY PLAN- OVERALL CAMPUS

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

G1.00

LIFE SAFETY LEGEND

FE	WALL MOUNT FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
X@ XX" / XXX	NUMBER OF DOORS @ DOOR WIDTH / EGRESS CAPACITY AT DOORS
	TRAVEL PATH
	EXIT SIGN

CODE SUMMARY

1. OCCUPANCY AND CONSTRUCTION TYPE	
OCCUPANCY	GROUP E
CONSTRUCTION TYPE	II-B
FULLY SPRINKLED	SINGLE-STORY
2. AREA	
TABULAR	58,000 SF (S1)
FIRST FLOOR - ACTUAL	XX,XXX GROSS SF
3. HEIGHT	
ALLOWABLE	75 FEET
ACTUAL	XX'-X"
4. STORIES	
ALLOWABLE	3 STORIES
ACTUAL	1 STORY

APPLICABLE CODES

ACCESSIBILITY	2009 ICC/ANSI A117.1
ARCHITECTURE	2018 KENTUCKY BUILDING CODE
ELECTRICAL	2017 NFPA 70 - NATIONAL ELECTRICAL CODE
ENERGY	2012 INTERNATIONAL ENERGY CONSERVATION CODE
FIRE	2015 INTERNATIONAL FIRE CODE
LIFE SAFETY	ICC-500 2014
MECHANICAL	2015 INTERNATIONAL MECHANICAL CODE
PLUMBING	815 KAR 20 KENTUCKY STATE PLUMBING LAW, REGULATIONS AND CODE
SPRINKLER SYSTEMS	ICC-500 2014
STRUCTURAL	2018 KENTUCKY BUILDING CODE

CODE SUMMARY - EXPANDED

CH. 3: USE AND OCCUPANCY CLASSIFICATION

305.1 USE AND OCCUPANCY CLASSIFICATION	*EDUCATION - E*

CH. 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

KBC 423.4 STORM SHELTERS	*ALL NEWLY CONSTRUCTED GROUP E OCCUPANCIES WITH AN AGGREGATE OCCUPANT LOAD OF 50 OR MORE SHALL HAVE A STORM SHELTER CONSTRUCTED IN ACCORDANCE WITH ICC 500. THE SHELTER SHALL BE CAPABLE OF HOUSING THE TOTAL OCCUPANT LOAD OF THE GROUP E OCCUPANCY.*

CH. 5: GENERAL BUILDING HEIGHTS AND AREAS

TABLE 504.3 - ALLOWABLE BUILDING HEIGHT	*75 FEET*
TABLE 504.4 - ALLOWABLE NUMBER OF STORIES	*3 STORIES*
505 - EQUIPMENT PLATFORMS	*AGGREGATE AREA OF EQUIPMENT PLATFORMS WITHIN A ROOM SHALL BE NOT GREATER THAN TWO THIRDS OF THE AREA OF THE ROOM IN WHICH THEY ARE LOCATED*
TABLE 506.2 - ALLOWABLE AREA	*43,500 SF ALLOWABLE PER STORY (GROUP E, MULTI-STORY, SPRINKLED)*

CH. 6: TYPES OF CONSTRUCTION

TABLE 601 - FIRE RESISTANCE RATING FOR BUILDING ELEMENTS	*PRIMARY STRUCT. FRAME: 0 HR BEARING WALLS: 0 HR. NONBEARING WALLS AND PARTITIONS: 0 HR FLOOR CONSTRUCTION: 0 HR ROOF CONSTRUCTION: 0 HR*
TABLE 602 - FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE	*TYPE II-B, GROUP E: X<5: 1 HOUR. 5 ≤ X < 10: 1 HOUR. 10 ≤ X < 30: 0 HOUR. X ≥ 30: 0 HOU*

CH. 10: MEANS OF EGRESS

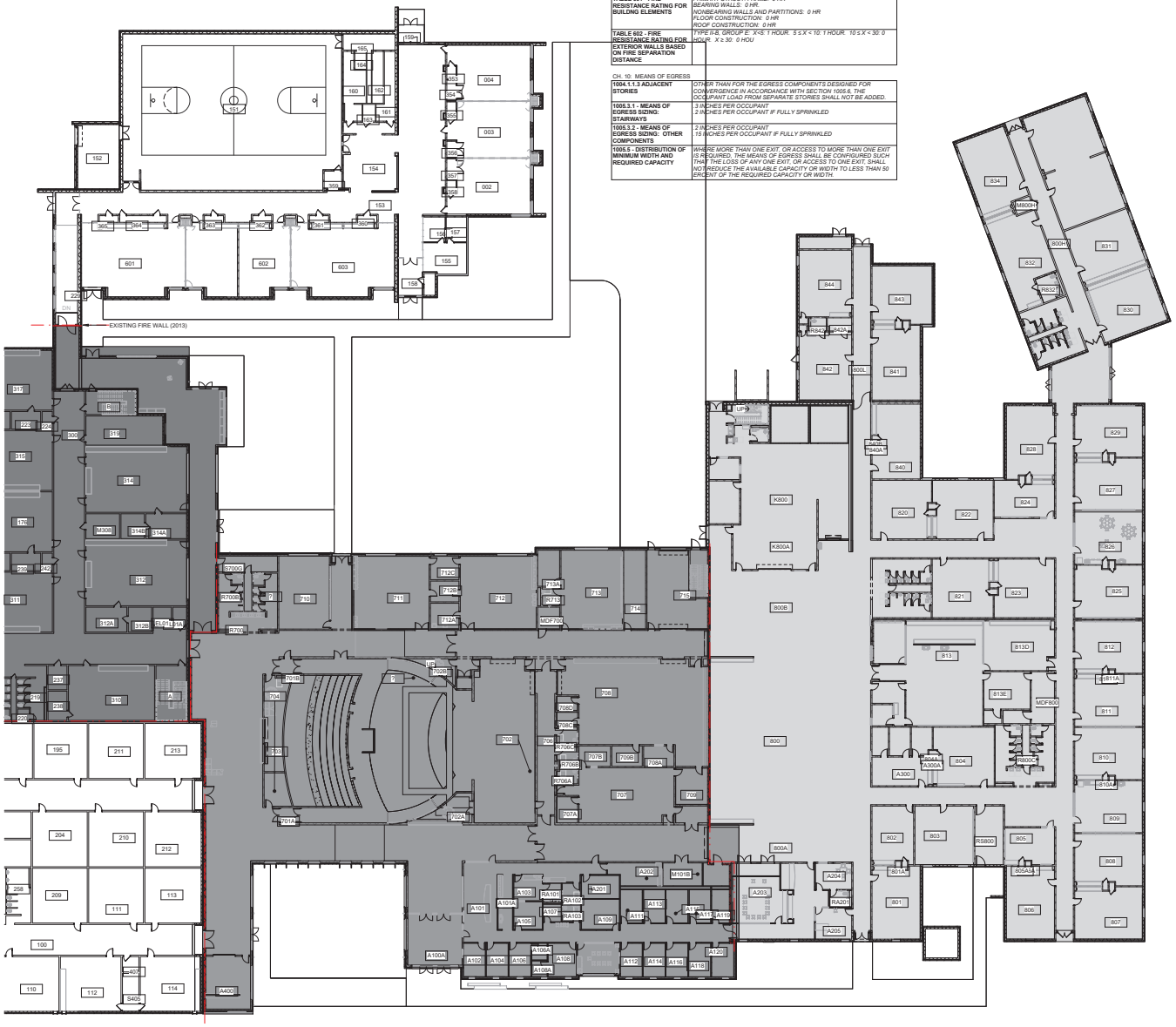
1004.1.1.3 ADJACENT STORIES	*OTHER THAN FOR THE EGRESS COMPONENTS DESIGNED FOR CONVERGENCE IN ACCORDANCE WITH SECTION 1005.6, THE OCCUPANT LOAD FROM SEPARATE STORIES SHALL NOT BE ADDED.*
1005.3.1 - MEANS OF EGRESS SIZING: STAIRWAYS	*3 INCHES PER OCCUPANT 2 INCHES PER OCCUPANT IF FULLY SPRINKLED*
1005.3.2 - MEANS OF EGRESS SIZING: OTHER COMPONENTS	*2 INCHES PER OCCUPANT .15 INCHES PER OCCUPANT IF FULLY SPRINKLED*
1005.5 - DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY	*WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH*

CODE SUMMARY - EXPANDED

TABLE 1006.2.1 - SPACES WITH ONE EXIT	*BUSINESS - MAX OCCUPANT LOAD OF 49, MAX COMMON PATH OF 100 FEET WITH SPRINKLER SYSTEM. EDUCATION - MAX OCCUPANT LOAD OF 49, MAX COMMON PATH OF 75 FEET WITH SPRINKLER SYSTEM.*
1007.1.1 - TWO EXITS CONFIGURATION	*WHERE TWO EXITS REQUIRED, THEY SHALL BE PLACED AT A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.*
TABLE 1017.2 - EXIT ACCESS TRAVEL DISTANCE	*A, E, F-1, M, R, S-1 OCCUPANCY - 250 FEET WITH SPRINKLER SYSTEM. B OCCUPANCY - 300 FEET WITH SPRINKLER SYSTEM. F-2, S-2, U OCCUPANCY - 400 FEET WITH SPRINKLER SYSTEM.*
TABLE 1020.1 - CORRIDOR FIRE RESISTANCE RATING	*A, B, E, F, M, S, U OCCUPANCY - 1 HR WITH SPRINKLER SYSTEM. R OCCUPANCY - 0.5 HR WITH SPRINKLER SYSTEM.*
TABLE 1020.2 - MINIMUM CORRIDOR WIDTH	*44 INCHES. (24 INCHES TO ACCESS MEP EQUIPMENT. 36 INCHES WITH OCCUPANT LOAD LESS THAN 36. 36 INCHES WITHIN A DWELLING UNIT. 72 INCHES IN GROUP E WITH OCCUPANT LOAD OF 100 OR MORE)*
TABLE 1020.4 - DEAD ENDS	*MAX 20 FEET EXCEPTION: GROUPS B, E, F, I-1, M, R-1, R-2, R-4, S, AND U WHERE SPRINKLER SYSTEM. MAX. 50 FEET*
1023.2 - INTERIOR EXIT STAIRWAYS AND RAMPS	*CONSTRUCTED AS FIRE BARRIERS. FIRE RESISTANCE RATING OF NOT LESS THAN 2 HRS WHERE CONNECTING 4 OR MORE STORIES, AND 1 HOUR WHERE CONNECTING LESS THAN 4 STORIES.*

OCCUPANT LOAD (PER IBC TABLE 1004.1.2)

ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY TYPE	LOAD FACTOR	OCC. LOAD BY AREA
Z13	RESOURCE	645 SF	2. RESOURCE ROOM		0
701	AUDITORIUM	5720 SF	12. AUDITORIUM		0
702	STAGE	2066 SF	12. AUDITORIUM		0
702A	BACKSTAGE 02	178 SF	12. AUDITORIUM		0
702B	STORAGE	114 SF	12. AUDITORIUM		0
702C	STORAGE	70 SF			0
703	TICKET BOOTH	405 SF	12. AUDITORIUM		0
704	STORAGE	168 SF	12. AUDITORIUM		0
705	CONTROL ROOM	181 SF			0
707	VOCAL MUSIC	Not Placed	7. VOCAL MUSIC		0
707A	PRACTICE	113 SF	7. VOCAL MUSIC		0
707B	CHOIR LIB/ OFFICE	134 SF	7. VOCAL MUSIC		0
708	BAND	2556 SF	6. BAND CLASSROOM		0
708A	BAND OFFICE	130 SF			0
708C	PRACTICE	61 SF	ARTS		0
708D	PRACTICE	61 SF	ARTS		0
709	ENSEMBLE	242 SF			0
709A	STORAGE	112 SF			0
709B	MUSIC LIBRARY	130 SF	7. VOCAL MUSIC		0
710	CLASSROOM (HUMANITIES)	770 SF	1. STANDARD CLASSROOM		0
711	2D ART	1149 SF	5. ART CLASSROOM	20	57
712	3D ART	1155 SF	5. ART CLASSROOM		0
712A	KILN	153 SF	5. ART CLASSROOM		0
712B	SPRAY BOOTH/ STORAGE	123 SF	5. ART CLASSROOM		0
712C	ART OFFICE	140 SF	5. ART CLASSROOM		0
713	DRAMA/ GREEN ROOM	1008 SF	10. LOCALLY IDENTIFIED		0
713A	DRAMA STORAGE	165 SF			0
714	BAND STORAGE	360 SF	6. BAND CLASSROOM		0
715	ARTS GARAGE	805 SF	10. LOCALLY IDENTIFIED		0
800	CAFETERIA/ COMMONS	5604 SF	14. CAFETERIA		0
800J	CORRIDOR	945 SF			0
801	ISAP CLASS	720 SF	1. STANDARD CLASSROOM		0
802	ISAP CLASS	493 SF	1. STANDARD CLASSROOM		0
803	TYPICAL CLASSROOM	712 SF	ADMIN		0
804	TYP. CLASSRM (30 SEATS)	729 SF	1. STANDARD CLASSROOM		0
805	RESOURCE	367 SF	2. RESOURCE ROOM		0
806	MATH	720 SF	1. STANDARD CLASSROOM		0
807	MATH	722 SF	1. STANDARD CLASSROOM		0
808	MATH	720 SF	1. STANDARD CLASSROOM		0
809	RESOURCE	720 SF	2. RESOURCE ROOM		0
810	MATH	720 SF	1. STANDARD CLASSROOM		0
811	MATH	720 SF	1. STANDARD CLASSROOM		0
812	MATH	723 SF	1. STANDARD CLASSROOM		0
813	DIGITAL MEDIA (COMP. LAB)	1759 SF	8. COMPUTER CLASSROOM		0
813A	CHARGED MEDIA	285 SF			0
813B	OFFICE	199 SF	8. COMPUTER CLASSROOM		0
813C	PODCAST 1	91 SF	8. COMPUTER CLASSROOM		0
813D	PHOTOGRAPHY STUDIO	707 SF	8. COMPUTER CLASSROOM		0
813E	CONFERENCE ROOM	362 SF	8. COMPUTER CLASSROOM		0
813F	STORAGE	49 SF	STORAGE		0
820	MATH	710 SF	1. STANDARD CLASSROOM		0
821	MATH	729 SF	1. STANDARD CLASSROOM		0
822	MATH	725 SF	1. STANDARD CLASSROOM		0
823	MATH	720 SF	1. STANDARD CLASSROOM		0
824	RESOURCE	449 SF	2. RESOURCE ROOM		0
825	MATH	730 SF	1. STANDARD CLASSROOM		0
826	RESOURCE	721 SF	2. RESOURCE ROOM		0
827	MATH	719 SF	1. STANDARD CLASSROOM		0
828	MATH	721 SF	1. STANDARD CLASSROOM		0
829	MATH	706 SF	1. STANDARD CLASSROOM		0
830	RESOURCE ELC	812 SF	2. RESOURCE ROOM		0
831	LAW ENFORCEMENT	807 SF	9. CAREER TECH		0
832	FFA/AG	861 SF	9. CAREER TECH		0
833	LAW ENFORCEMENT	813 SF	9. CAREER TECH		0
834	FFA/AG	816 SF	9. CAREER TECH		0
835	LAW ENFORCEMENT	818 SF	9. CAREER TECH		0
840	CLASSROOM	732 SF	1. STANDARD CLASSROOM		0
841	EL CAREER PATH	734 SF	9. CAREER TECH		0
842	DAYCARE	746 SF	10. LOCALLY IDENTIFIED		0
843	EL CAREER PATH	718 SF	9. CAREER TECH		0
844	DAYCARE	727 SF	10. LOCALLY IDENTIFIED		0
A101	RECEPTION	559 SF	16. ADMIN		0
A101A	WORK RM & MAIL	166 SF	16. ADMIN		0
A102	ATTEND	153 SF	16. ADMIN		0
A103	NURSE/SICK	151 SF	16. ADMIN		0
A104	ATTEND (Karla)	153 SF	16. ADMIN		0
A105	OFFICE (Shaila)	164 SF	16. ADMIN		0
A106	SRO	153 SF	16. ADMIN		0
A107	STORAGE	68 SF	16. ADMIN		0
A108	BOOK K (Thersa)	199 SF	16. ADMIN		0
A109	RECORDS	238 SF	16. ADMIN		0
A110	CONF. ROOM	265 SF	16. ADMIN		0
A111	COUNS. 01	152 SF	16. ADMIN		0
A112	AP 01	153 SF	16. ADMIN		0
A113	COUNS. 02	149 SF	16. ADMIN		0
A114	AP 02	153 SF	16. ADMIN		0
A115	COUNS. 03	152 SF	16. ADMIN		0
A116	AP 03	153 SF	16. ADMIN		0
A117	COUNS. 04	149 SF	16. ADMIN		0
A118	AP 04	153 SF	16. ADMIN		0
A119	COUNS. 05	123 SF	16. ADMIN		0
A120	AP 05	157 SF	16. ADMIN		0
A201	SPED	183 SF	16. ADMIN		0
A202	FLEX CONFERENCE	230 SF	16. ADMIN		0
A203	MAIN CONFERENCE	504 SF	16. ADMIN		0
A204	PRINCIPAL	198 SF	16. ADMIN		0
A205	COUNS. WAITING	236 SF	16. ADMIN		0
A300	FRYSC	353 SF	1. STANDARD CLASSROOM		0
A301	STORAGE	97 SF			0
A302	OFFICE	124 SF	17. FAMILY RESOURCE		0
A303	OFFICE	118 SF	17. FAMILY RESOURCE		0
A400	BOOKSTORE	491 SF	10. LOCALLY IDENTIFIED		0
E101	ELEC	117 SF			0
IDF800A	STORAGE	74 SF			0
K800	KITCHEN	Not Placed	13. KITCHEN		0
K800A	SERVING LINE	774 SF			0
K800B	DISHWASH	252 SF			0
K801	DRY STORAGE	273 SF			0
K802	KITCHEN OFFICE	136 SF			0
K803	KIT. LOCKER	57 SF			0
M800K	MECHANICAL	132 SF			0
M900	MECHANICAL MEZZANINE	2752 SF			0
M901	MECHANICAL MEZZANINE	5146 SF			0
MDF700	MDF	100 SF	UNASSIGNED		0
MDF800	SERVER ROOM	251 SF	MECH		0
R700C	PLUMBING CHASE	61 SF			0
R800	RESTROOM- HALL	198 SF			0
R801C	PLUMBING CHASE	66 SF			0
R804	RR	51 SF			0
RS800	FIRE SPRINKLER	347 SF	MECH		0
TOTAL # OF OCCUPANTS					57



1 FIRST FLOOR PLAN- PHASE 1
1" = 20'-0"

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BG MOVING FORWARD

LIFE SAFETY PLAN- PHASE 1

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

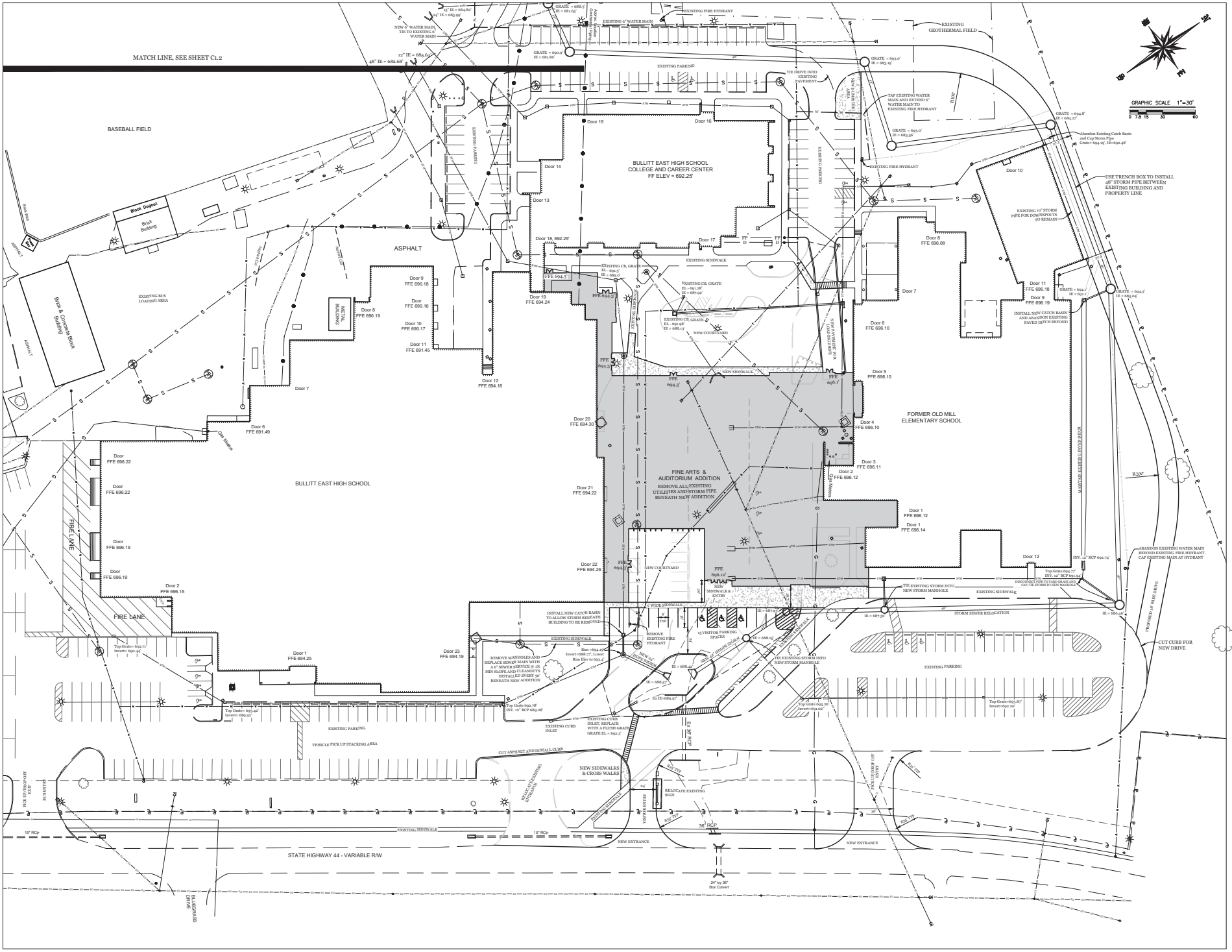
BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

100% DESIGN DEVELOPMENT

G1.01



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CONSTRUCTION MANAGERS

BULLITT COUNTY PUBLIC SCHOOLS
Moving Forward

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SITE LAYOUT – FINE ARTS ADDITION

Bullitt East High School – Fine Arts Addition
11480 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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REVISIONS :

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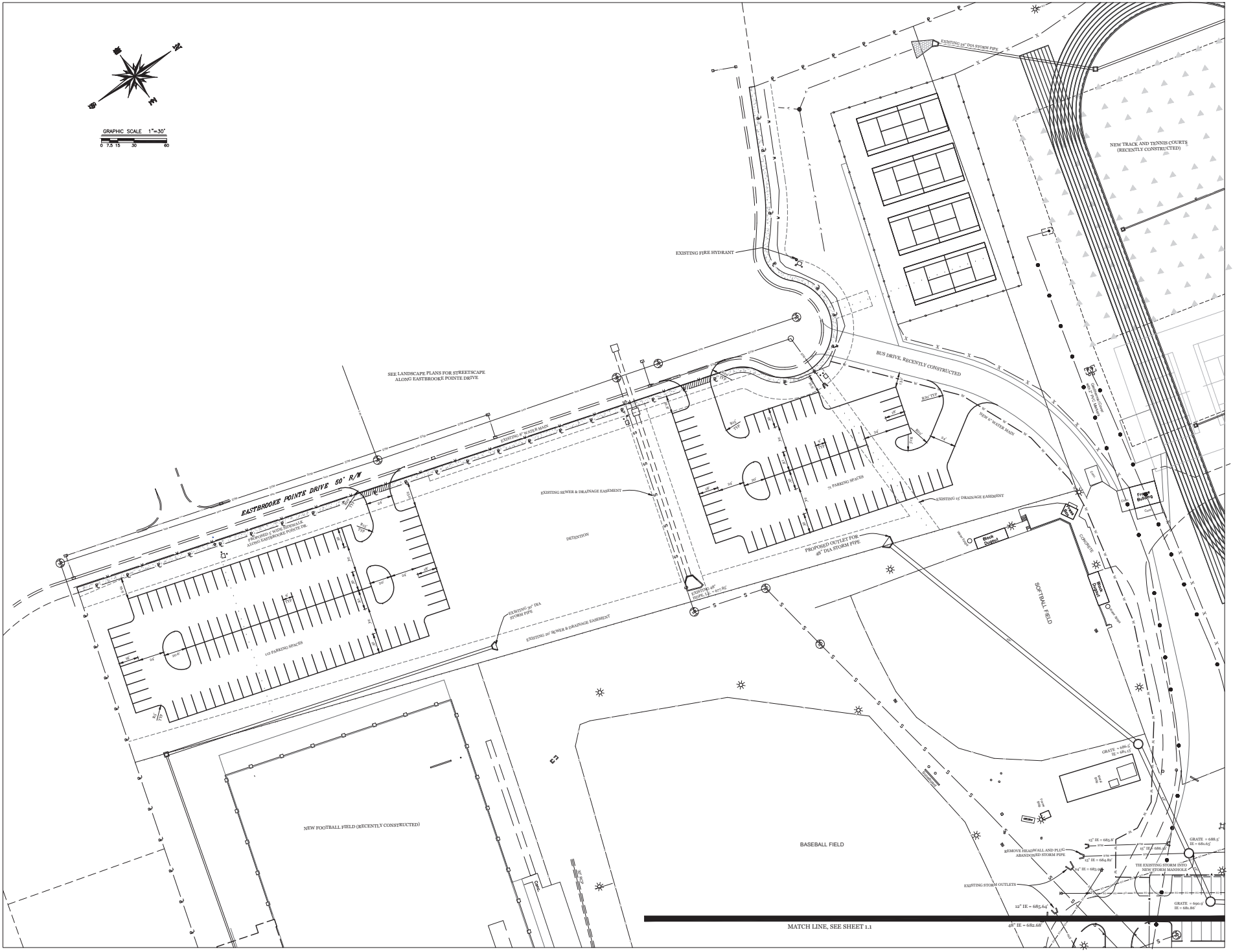
C1.1



100% DESIGN DEVELOPMENT

SITE LAYOUT – NEW PARKING AREAS

Bullitt East High School – Fine Arts Addition

11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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C1.2

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BUILDING ENVELOPE TECHNOLOGY
SHOCK, NEWKIRK & WIERNSKI

BULLITT COUNTY PUBLIC SCHOOLS
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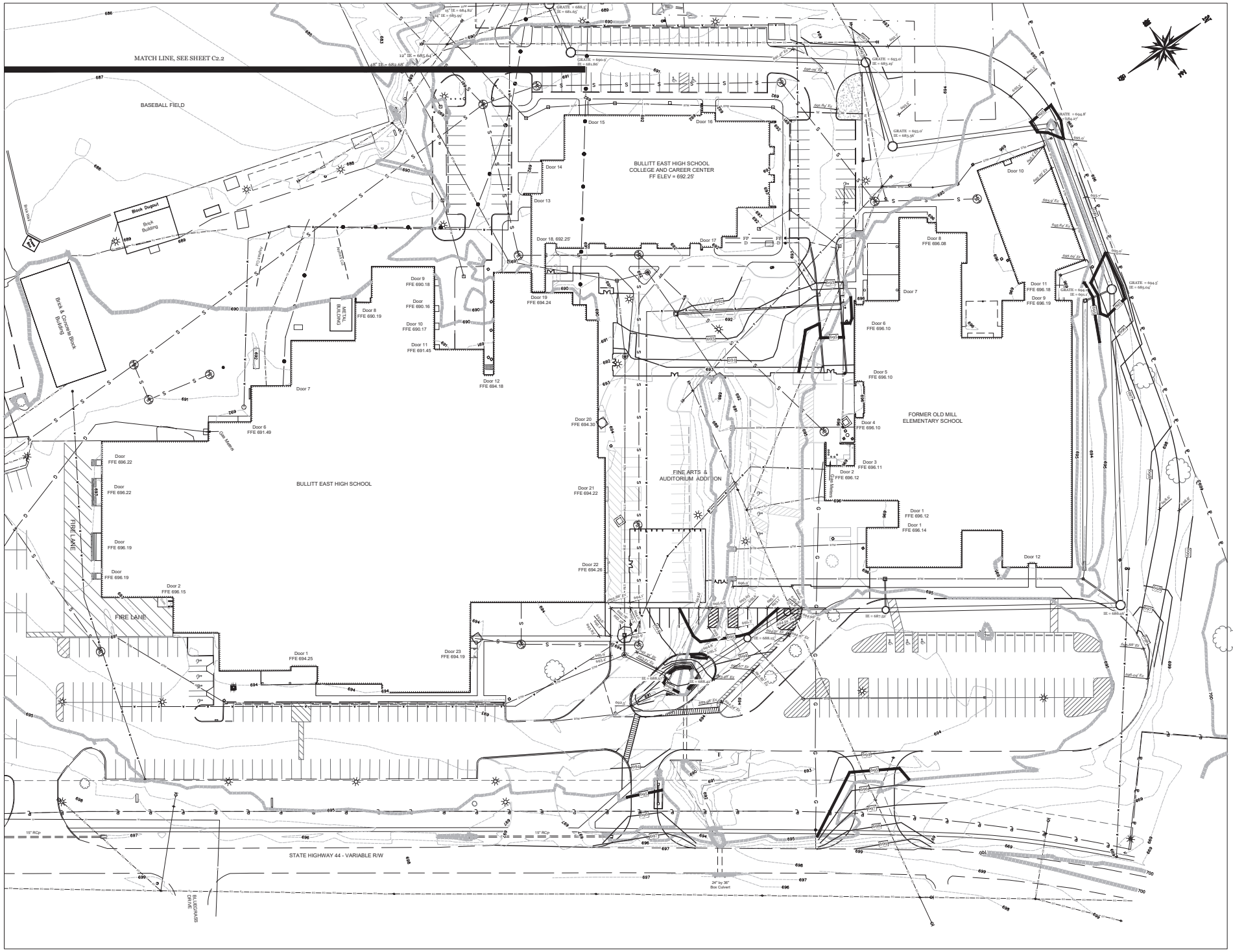

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GRADING & DRAINAGE – FINE ARTS ADDITION

Bullitt East High School – Fine Arts Addition
14485 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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GRADING & DRAINAGE
NEW PARKING AREAS

Bullitt East High School – Fine Arts Addition
11450 KY-44
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GENERAL NOTES

DESIGN LOADS

STRUCTURAL RISK CATEGORY ..... CATEGORY III

FLOOR LIVE LOAD

ASSEMBLY – FIXED SEATS	60 PSF
CATWALKS	40 PSF
CLASSROOMS	**40 PSF
CORRIDORS ABOVE FIRST FLOOR	80 PSF
CAFETERIA	100 PSF
KITCHENS	150 PSF
LOBBIES AND FIRST FLOOR CORRIDORS	100 PSF
OFFICES	**50 PSF
RESTROOMS	60 PSF
STAGES	150 PSF
STAIRS	100 PSF

** (PLUS NON-REDUCED 15 PSF PARTITION LOAD ALLOWANCE)
(LIVE LOADS ARE REDUCED PER KBC SECTION 1607.10)

ROOF LIVE LOAD ..... 20 PSF MIN

ROOF SNOW LOAD (PER ASCE 7-10)

GROUND SNOW LOAD	P_g = 15 PSF
IMPORTANCE FACTOR	I_s = 1.1
SNOW EXPOSURE FACTOR	C_e = 1.0
THERMAL FACTOR (BUILDING)	C_t = 1.0
(CANOPIES)	C_t = 1.2
RAIN ON SNOW SURCHARGE (FLAT ROOF ONLY)	P_r = 5 PSF
FLAT ROOF SNOW LOAD* (P_f = 0.7$C_e C_t I_s P_g$) (BUILDING)	P_f = 12.8 PSF
(CANOPIES)	P_f = 13.9 PSF
MINIMUM ROOF SNOW LOAD (I-sPg)	P_m = 16.5 PSF
SLOPED-ROOF SNOW LOAD* (P_s = Cs Pf) (BUILDING)	P_s = 12.8 PSF
(CANOPIES)	P_s = 13.9 PSF

*(INCREASE FOR DRIFTING PER ASCE 7-10, SECTIONS 7.7 & 7.8)

WIND LOAD (PER ASCE 7-10)

ULTIMATE DESIGN WIND SPEED	V_{ult} = 120 MPH
NOMINAL DESIGN WIND SPEED	V_{ASD} = XX MPH
WIND EXPOSURE	EXPOSURE C
ENCLOSURE	FULLY ENCLOSED
INTERNAL PRESSURE COEFFICIENT	GC_{pi} = ± 0.18
END ZONE WIDTH	a = 12 FT

COMPONENTS & CLADDING EXTERNAL PRESSURE ULTIMATE (LRFD) LOADS (PSF)

EFFECTIVE WIND AREA (SQ.FT.)	LOCATION PER ASCE 7-10 1	2	3	4	5
10	14.9 -36.7	14.9 -61.5	14.9 -92.6	33.6 -36.4	33.6 -44.8
20	13.7 -35.4	13.7 -52.9	13.7 -52.9	32.1 -34.9	32.1 -41.8
50	12.7 -34.5	12.7 -46.3	12.7 -50.9	30.1 -37.9	30.1 -37.9
100	11.8 -33.6	11.8 -38.6	11.8 -38.6	28.6 -37.4	28.6 -34.9
500	25.2 -28.0			25.2 -28.0	

NOTES:

1. WIND LOADING PROVIDED ARE ULTIMATE (LRFD) LOADING. FOR ALLOWABLE STRESS DESIGN MULTIPLY LOADS PROVIDED BY 0.6.
2. LOADING PROVIDED IS FOR WORST CASE ROOF HEIGHT. DELEGATED DESIGNERS MAY RECALCULATE LOADS FOR SPECIFIC COMPONENT HEIGHTS USING PARAMETERS SPECIFIED.
3. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
4. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
5. FOR HIP ROOFS WITH $\theta \leq 25°$, ZONE 3 SHALL BE TREATED AS ZONE 2.
6. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
7. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.
8. INTERNAL PRESSURE FOR ENCLOSED BUILDING IS INCLUDED IN ABOVE VALUES.
9. THE NET C&C PRESSURE (INCLUDING INTERNAL PRESSURE) FOR ANY COMPONENT SHALL NOT BE TAKEN LESS THAN 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.
10. NOTATION:
    - *a*: 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4*h*, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3 FT.
    - *h*: MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES $\theta \leq 10°$.
    - θ: ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.

EARTHQUAKE DESIGN DATA

COUNTY / STATE	BULLITT / KENTUCKY
IMPORTANCE FACTOR	I_e = 1.25
MAPPED SHORT PERIOD RESPONSE ACCELERATION	S_s = 0.226
MAPPED 1 SECOND PERIOD RESPONSE ACCELERATION	S_1 = 0.114
SITE CLASS	CLASS C
DESIGN SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT	S_{DS} = 0.181
DESIGN 1 SECOND PERIOD SPECTRAL RESPONSE COEFFICIENT	S_{d1} = 0.128
SEISMIC DESIGN CATEGORY	CATEGORY B
BASIC STRUCTURAL SYSTEM	BEARING WALL SYSTEM
SEISMIC RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR	R = 2.0
SEISMIC RESPONSE COEFFICIENT	C_s = 0.113
METHOD OF ANALYSIS	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC BASE SHEAR	= 800 KIPS

DESIGN STRESSES

CONCRETE (STRENGTH DESIGN) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS:	
FOOTINGS	f'_c = 3,000 PSI
INTERIOR SLABS ON GRADE, FOUNDATION WALLS, AND, CONCRETE ON METAL DECK	f'_c = 4,000 PSI
CONCRETE EXPOSED TO FREEZE/THAW	f'_c = 5,000 PSI
REINFORCING BARS (ASTM A615 GRADE 60)	f_y = 60,000 PSI
WELDED WIRE FABRIC (ASTM A184)	f_y = 65,000 PSI
WIDE FLANGE AND TEE SHAPES DESIGNATED AS W AND WT (ASTM A992)	f_y = 50,000 PSI
WIDE FLANGE SHAPES DESIGNATED AS HP (ASTM A572)	f_y = 50,000 PSI
WIDE FLANGE AND TEE SHAPES DESIGNATED AS M, S, MT AND ST (ASTM 36)	f_y = 36,000 PSI
CHANNELS, ANGLES, PLATES AND BARS (ASTM A572)	f_y = 50,000 PSI
STEEL ROOF DECK (ASTM A653)	f_y = 33,000 PSI
COMPOSITE STEEL FLOOR DECK (ASTM A653)	f_y = 50,000 PSI

HOLLOW STRUCTURAL SECTIONS - RECTANGULAR STEEL TUBES (ASTM A500 GRADE C)	f_y = 50,000 PSI
STEEL JOISTS (K, LH, OR DLH) AS PER SJI SPECIFICATIONS	f_y = 50,000 PSI/MAX f_y = 36,000 PSI MIN
MASONRY ASSEMBLY COMPRESSIVE STRENGTH	$f'm$ = 2,000 PSI
CONCRETE MASONRY UNIT STRENGTH	$f'm$ = 2,000 PSI
TYPE S MORTAR STRENGTH	$f'm$ = 2,000 PSI
MASONRY GROUT (ASTM C476) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS	$f'm$ = 2,000 PSI
SOIL BEARING PRESSURE FOR FOUNDATIONS (MATERIAL)	2,000 PSF

DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE, 3rd EDITION (2015 IBC).
2. MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS	L/360	L/240
FLOOR MEMBERS INTERIOR	L/360	L/240
FLOOR MEMBERS SPANDREL	L/360	L/240

WHERE L = SPAN LENGTH BETWEEN CENTERLINE OF SUPPORTS (INCHES) FOR CANTILEVERS L = TWICE THE LENGTH OF THE CANTILEVER.

3. NO PRESSURE HAS BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.
4. FIRE PROTECTION: STRUCTURAL SLABS ON METAL DECK HAVE BEEN DESIGNED IN COMPLIANCE WITH UL DMM TO PROVIDE A 4 HOUR FIRE RATING WITHOUT ADDITIONAL PROTECTION. STRUCTURAL STEEL BEAMS AND FLOOR SYSTEMS WITHIN STEEL FRAMED BUILDING SYSTEMS ARE CLASSIFIED AS RESTRAINED.

GENERAL

1. THE REQUIREMENTS OF THESE GENERAL NOTES APPLY UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONTRACT DOCUMENTS, ADDENDA, AND SUPPLEMENTARY INFORMATION AND DISTRIBUTING SUCH TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS, FABRICATION, AND FABRICATION OF ANY STRUCTURAL MEMBERS.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES THAT MAY EXIST.
4. ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
5. DO NOT SCALE DRAWINGS.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND IS THEREFORE DEPENDENT UPON DIAPHRAGM ACTION OF THE ROOF DECK AND FLOOR SLAB AND ATTACHMENT TO THE SHEAR WALLS AND FRAMES FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BRACING REQUIRED TO PROPERLY CONSTRUCT THE BUILDING UNITS. THESE ELEMENTS ARE COMPLETE AND CAPABLE OF PROVIDING THIS BENEFIT.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS TO CONSTRUCT THE STRUCTURE, INCLUDING VERIFICATION OF LOAD CAPACITY OF THE STRUCTURAL FRAMING DURING CONSTRUCTION SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER. ETC. AND FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. DAMAGE TO THE STRUCTURE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE CORRECTED BY THE RESPONSIBLE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION.
9. NON-STRUCTURAL ELEMENTS OF THE BUILDING (ARCHITECTURAL FINISHES, MASONRY VENEER AND ASSOCIATED TIES, INSULATION, SHEATHING, DUCTWORK, PIPING, FOUNDATIONS/CORRIDOR DRAINS, ETC.) ARE TYPICALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. WHERE NON-STRUCTURAL ELEMENTS ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY ARE SHOWN FOR REFERENCE AND DESIGN INTENT ONLY. NON-STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED AS SHOWN ON THE ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS.
10. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE IDEALIZED ELEVATIONS BASED ON DECK THICKNESS AND SLOPES SHOWN ON DRAWINGS AND DO NOT ACCOUNT FOR BEAM OR JOIST CAMBER. IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO COORDINATE ANY CAMBER OF THEIR WORK WITH OTHER TRADES AND ADJUST ELEVATIONS AS NECESSARY TO ACCOUNT FOR DEAD LOAD DEFLECTION AND THIS CAMBER.
11. WALL OPENINGS AND TERMINATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE DIAGRAMMATIC ONLY. WALL TERMINATIONS AND OPENING JAMBS, HEADS, AND SILLS SHALL BE CONSTRUCTED AS SHOWN ON THE ARCHITECTURAL DRAWINGS. WHERE VENEERS WRAP JAMBS, DETAIL AND FABRICATE LINTELS TO BEAR ON SOLID STRUCTURE. DO NOT BEAR LINTELS OR BEAMS ON VENEERS (BRICKS, SIDING, ETC.). IF THE ARCHITECTURAL DRAWINGS DO NOT INCLUDE DETAILS FOR ANY OF THESE CONDITIONS, CONSULT WITH ARCHITECT FOR DIRECTION.
12. EXISTING CONSTRUCTION SHOWN IS BASED ON EXISTING CONSTRUCTION DOCUMENTS AND/OR GENERAL CONSTRUCTION PRACTICE AND IS NOT GUARANTEED TO BE TRUE OR EXACT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS RELEVANT TO THE SCOPE OF WORK PRIOR TO CONSTRUCTION.
13. DETAILS LABELED TYPICAL ON THESE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR AND SHALL APPLY REGARDLESS OF WHETHER THEY ARE NOTED ON THE PLANS. CONSTRUCTION NOT SPECIFICALLY INDICATED BY DETAIL OR SECTION SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.

FOUNDATION CONSTRUCTION

1. FOUNDATIONS ON THIS PROJECT ARE DESIGNED TO BE IN ACCORDANCE WITH RECOMMENDATIONS MADE BY CONSULTING SERVICES INCORPORATED, GEOTECHNICAL ENGINEERS, AS PER THEIR REPORT DATED JANUARY 29, 2023. THE GEOTECHNICAL REPORT IS PROVIDED AS REFERENCE INFORMATION AVAILABLE TO BIDDERS, BUT IS NOT PART OF THE CONTRACT DOCUMENTS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL REPORT.
2. ELEVATIONS GIVEN ARE TO THE TOP OF FOOTINGS.
3. ALL FOOTINGS MUST BE SUPPORTED ON UNDISTURBED SOIL CAPABLE OF SUPPORTING DESIGN LOADS WITHOUT WITHOUT ANY SETTLEMENT. CONTRACTOR SHALL PROBE BEARING STRATA WITH DRIVEN RODS, REMOVE SHALLOW BEDROCK (AND OVERLYING SOIL) WITHIN ONE FOOTING WIDTH BELOW BOTTOM OF FOOTING, AND REPLACE WITH ENGINEERED SOIL BACKFILL.
4. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES FOR ANY SHUT-OFF REQUIREMENTS OF STILL-ACTIVE LINES.
5. WHEN EXCAVATIONS APPROACH THE GROUND WATER LEVEL, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2'-0" BELOW THE EXCAVATION.
6. EXISTING FOUNDATIONS:
   A. EXISTING FOUNDATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT CONDITIONS MUST BE VERIFIED AT TIME OF CONSTRUCTION.
   B. WHEN NEW FOOTINGS MEET EXISTING FOOTINGS, THEY SHALL BE STEPPED AT A RATIO OF 2 HORIZONTAL TO 1 VERTICAL.
   C. UNLESS OTHERWISE NOTED, NEW FOOTINGS SHALL NOT BEAR BELOW EXISTING FOOTINGS.
7. PROVIDE MINIMUM (3) #5 CONTINUOUS IN ALL FOOTINGS DIRECTLY UNDER MASONRY WALLS.
8. BEFORE BACKFILL, ALL WALLS MUST BE ADEQUATELY BRACED. FOR BACKFILL REQUIREMENTS, SEE SPECIFICATIONS AND/OR GEOTECHNICAL ENGINEER'S REPORT.
9. RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL COMPRESSIVE STRENGTH TESTS DEMONSTRATE THAT THE CONCRETE HAS DEVELOPED 100% OF THE REQUIRED 28-DAY COMPRESSIVE STRENGTH FOR THE CLASS OF CONCRETE SPECIFIED. THE CONTRACTOR MAY ELECT TO PREPARE ADDITIONAL TEST CYLINDERS IN ORDER TO DEMONSTRATE THAT THE REQUIRED COMPRESSIVE STRENGTH PRIOR TO THE MANDATORY 28-DAY COMPRESSIVE STRENGTH TESTS. IN NO CASE SHALL WALLS BE BACKFILLED PRIOR TO SEVEN (7) DAYS FROM PLACEMENT.
10. FOR PLACEMENT AND COMPACTION OF FILL UNDER SLABS ON GRADE, SEE SPECIFICATIONS. IF NOT OTHERWISE NOTED, COMPACT ALL FILL TO 98% OF OPTIMUM LABORATORY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. PLACE FILL IN 8" TO 8" LAYERS AND COMPACT WITH VIBRATORY TAMPING EQUIPMENT.
11. WHERE ELECTRICAL CONDUIT CONCENTRATES BELOW ELECTRICAL ROOMS AND PANELS, CONTRACTOR SHALL HOLD DOWN SUBGRADE APPROPRIATELY FOR CONDUIT TO BE BELOW SLAB. COVER CONDUIT WITH FLOWABLE FILL (LEAN CONCRETE) TO BOTTOM OF SLAB ELEVATION.
12. SEE ARCHITECTURAL AND SITE DRAWINGS FOR CONTOUR AND LAYOUT OF SITE WALKS AND BREEZEWAYS. SLOPE EXTERIOR CONCRETE 1/8"↓FT AWAY FROM BUILDING, UNLESS NOTED OTHERWISE.
13. FOUNDATION CONCRETE SHALL BE PLACED IMMEDIATELY FOLLOWING EXCAVATION. A LEAN CONCRETE (1,500 PSI) MUD MAT SHALL BE PLACED OVER THE PREPARED BEARING MATERIALS IF EXCAVATION MUST REMAIN OPEN DURING INCLEMENT WEATHER OR FOR MORE THAN 72 HOURS.
14. CONTRACTOR SHALL EXERCISE CAUTION THAT DENSE GRADED AGGREGATE BLANKET BELOW FLOOR SLAB DOES NOT BECOME SATURATED DURING CONSTRUCTION. CONTRACTOR SHALL CAST FLOOR SLAB OR PROVIDE TEMPORARY PROTECTION FOR SUBGRADE UNTIL SLAB IS CAST TO PREVENT WATER INFILTRATION INTO SUBGRADE.
15. SURFACE RUNOFF SHALL BE DIRECTED AWAY FROM FOUNDATION EXCAVATIONS AND NOT BE PERMITTED TO POND WITHIN THE BUILDING FOOTPRINT. PROVIDE DRAINAGE TRENCHES FROM FOUNDATION EXCAVATIONS TO DIRECT RAINWATER OUT OF EXCAVATIONS.

CONCRETE CONSTRUCTION

1. ALL CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 301, ACI 318 AND ACI DETAILING MANUAL, EXCEPT THAT CONSTRUCTION AND REMOVAL OF FORMS AND RESHORING SHALL BE INSPECTED BY THE CONTRACTOR'S ENGINEER.
2. FURNISH BAR SUPPORTS WHERE NECESSARY DURING CONSTRUCTION.
3. PROVIDE PLASTIC, PLASTIC-COATED (NOT PLASTIC-TIPPED) OR STAINLESS STEEL CHAIRS IN ALL CONCRETE EXPOSED TO VIEW IN COMPLETED STRUCTURE.
4. PROVIDE PIPE SLEEVES AND INSERTS IN CONCRETE WORK WHERE REQUIRED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
5. WELDING OF REINFORCING BARS (INCLUDING TACK WELDING) IS NOT PERMITTED.
6. PROVIDE HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS IN SUPPORTED SLABS AND WALL FOOTINGS. MINIMUM 1 1/2" DEPTH WITH HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH, UNLESS OTHERWISE SHOWN OR NOTED.
7. ALL EXPOSED CORNERS IN CONCRETE SHALL BE CHAMFERED 45 DEGREES. MINIMUM CHAMFER TO BE 1/2". CURVE THE LEADING EDGE OF STAIR TREADS TO 1/2" RADIUS.
8. ALL EXPOSED CONCRETE SUBJECTED TO FREEZING AND THAWING TO HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.40 AND 6% +/- 1% OF ENTRAINED AIR.
9. REINFORCING FOR SLABS ON GROUND IN FLAT SLABS SHALL BE IN THE MIDDLE OF THE SLAB EXCEPT AS OTHERWISE NOTED AND SHALL BE POSITIVELY SUPPORTED AND MAINTAINED IN THIS POSITION DURING PLACEMENT OF CONCRETE.
10. IN SLAB AND/OR JOIST CONSTRUCTION, PROVIDE A MINIMUM OF #4 x 5'-0" AT 12" O.C. TOP OVER BEAMS OR WALLS WHERE SLABS OR JOISTS SPAN PARALLEL TO BEAMS OR WALLS.
11. SLAB THICKNESS INDICATED OVER STEEL FORM DECK INCLUDES FORM DECK DEPTH. PROVIDE FORM DECK CONTINUOUS OVER AT LEAST THREE SUPPORTS AND WELD TO EACH SUPPORT WITH MINIMUM 12" INTERVALS. USE FORM DECK THAT WILL SAFELY SUPPORT ALL CONSTRUCTION LOADS. LIMIT DEFLECTION OF FORM DECK TO 1/240 OF SPAN WHEN LOADED WITH THE WET WEIGHT OF CONCRETE AND CONSTRUCTION LOADS.
12. IN STEEL STAIR TREADS WITH CONCRETE FILL, PROVIDE 4x4-W1.4xW1.4 W.W.F. IN FLAT SHEETS.
13. BEND ALL HORIZONTAL WALL AND FOOTING BARS 1'-0" AROUND CORNERS OR PROVIDE CORNER BARS WITH 2'-0" LAP.
14. PROVIDE FOUNDATION DOWELS FOR ALL WALLS, PIERS, AND COLUMNS SAME SIZE AND SPACING AS VERTICAL STEEL.
15. PROVIDE FOUNDATION DOWELS FOR MASONRY WALLS SAME SIZE AND SPACING AS VERTICAL STEEL. ALL DOWELS SHALL BE WITHIN 4" LATERALLY OF WALL REINFORCING ABOVE AND IN LINE WITH THE WALL REINFORCING. PROVIDE DOWELS FOR ALL ADDITIONAL WALL REINFORCING AT CORNERS, ENDS, JAMBS, INTERSECTIONS AND BOTH SIDES OF CONTROL JOINTS. ONLY DOWELS AT THESE ADDITIONAL LOCATIONS MAY BE POST INSTALLED (DRILLED AND DOWELS FASTENED WITH EMBEDMENT AS REQUIRED TO DEVELOP FULL YIELD STRENGTH OF REINFORCING.
16. SPLICES IN REINFORCING BARS SHALL BE AS FOLLOWS (LAP, U.N.O.)
   A. LAP ALL COMPRESSION SPLICES 30 BAR DIAMETERS OF THE LARGER BAR.
   B. LAP ALL TENSION SPLICES (ALL SPLICES EXCEPT COLUMN SPLICES, U.N.O.) IN ACCORDANCE WITH THE FOLLOWING TABLE. (LENGTHS AS NOTED)

BAR SIZE	CONCRETE COMPRESSIVE STRENGTH 3,000 PSI	4,000 PSI	5,000 PSI
#3	21"	18"	17"
#4	28"	25"	22"
#5	36"	31"	28"
#6	43"	37"	33"
#7	62"	54"	48"
#8	71"	62"	55"
#9	80"	70"	62"
#10	90"	78"	70"
#11	100"	87"	78"

   1. INCREASE SPLICE LENGTH BY THE FOLLOWING:
      2. NOTE: INCREASED LENGTHS ARE ACCUMULATIVE.
      1. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW: +30 %
      2. BAR SPACING LESS THAN 2 BAR DIAMETERS: +50 %
      3. LIGHTWEIGHT CONCRETE: +30 %
      4. EPOXY-COATED TOP BARS: +30 %
      5. EPOXY-COATED OTHER BARS: +50 %
   C. CONCRETE FOR REINFORCEMENT: COVER
      1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
      B. CONCRETE EXPOSED TO EARTH OR WEATHER
         NO. 6 THROUGH NO. 18 BARS: 2"
         NO. 5 BAR, W31 OR D31 WIRE AND SMALLER: 1 1/2"
      C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
         SLABS, WALLS, AND JOISTS
         NO. 11 BAR AND SMALLER: 3/4"

LOOSE LINTEL SCHEDULE

1. THIS SCHEDULE IS FOR LINTELS OVER MASONRY OPENINGS NOT OTHERWISE SHOWN OR NOTED ON DRAWINGS, INCLUDING NON-BEARING PARTITION WALLS AND VENEERS.
2. ANGLES AND SUPPORT PLATES EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.
3. MINIMUM BEARING LENGTH FOR ANGLES AND PLATES SHALL BE 8" EACH END. MINIMUM BEARING LENGTH FOR TUBES SHALL BE 6" EACH END. SEE TYPICAL DETAILS FOR BOND BEAM CONSTRUCTION.
4. PROVIDE STEEL LINTELS ABOVE ALL PENETRATIONS 16" AND WIDER THROUGH MASONRY WALLS OR MASONRY VENEERS; INCLUDING DUCT PENETRATIONS, LOUVERS, GROUPED CONDUITS, WINDOWS, ETC.
5. FOR MULTI-WYTHE WALL CONSTRUCTION, PROVIDE LINTEL FOR EACH WYTHE PER SCHEDULE FOR OUTER WYTHE THICKNESS.

2. FOR 4" MASONRY WALLS PROVIDE:

SPAN LIMITS	LINTEL SIZE	ANGLE SIZE
0" TO 4'-0"	3 L3x3 1/2x5/16	L3x3 1/2x5/16
4'-1" TO 6'-0"	L4x3 1/2x5/16 L.D.V.	L4x3 1/2x5/16 L.D.V.
6'-1" TO 7'-6"	L5x3 1/2x5/16 L.D.V.	L5x3 1/2x5/16 L.D.V.
7'-7" TO 9'-6"	L6x3 1/2x3/8 L.D.V.	L6x3 1/2x3/8 L.D.V.

3. FOR 6" MASONRY WALLS PROVIDE:

SPAN LIMITS	LINTEL SIZE
0" TO 4'-0"	WT5x6.0
4'-1" TO 5'-6"	WT5x6.5
5'-7" TO 9'-6"	(1) 8" x 5/16" PLATE STEM. WELD CONTINUOUSLY BOTH SIDES TO 5" x 1/4" PLATE FLANGE. (MAKE FLANGE EQUAL TO 3/8" THICK AT EXTERIOR OPENINGS.)

4. FOR 8" MASONRY WALLS PROVIDE:

SPAN LIMITS	LINTEL SIZE
0" TO 6'-0"	8" BOND BEAM TYPE MLI8 SEE DET E/S401 OR (2) L4x3 1/2x5/16 L.D.V.
6'-1" TO 12'-6"	10" BOND BEAM TYPE MLI8 SEE DET E/S401 OR HSSx8x4x1/4 PL 1/4x7 (TYPE 3, SEE DET E/S401)
12'-7" TO 16'-0"	HSSx8x4x1/4 PL 1/4x7 (TYPE 3, SEE DET E/S401)
16'-1" TO 18'-0"	HSSx8x4x1/2 PL 1/4x7 (TYPE 3, SEE DET E/S401)
18'-1" TO 22'-0"	HSS16x4x5/16 + PL 1/4x7 (TYPE 3, SEE DET E/S401)

5. FOR 12" MASONRY WALLS PROVIDE:

SPAN LIMITS	LINTEL SIZE
0" TO 6'-0"	8" BOND BEAM TYPE MLI8 SEE DET E/S401 OR (3) L4x3 1/2x5/16 L.D.V.
6'-1" TO 12'-6"	10" BOND BEAM TYPE ML16 SEE DET E/S401 OR HSSx8x5/16 + PL 1/4x11 (TYPE 3, SEE DET E/S401)
12'-7" TO 16'-0"	HSSx8x5/16 + PL 1/4x11 (TYPE 3, SEE DET E/S401)
16'-1" TO 25'-0"	HSS16x6x5/16 + PL 1/4x11 (TYPE 3, SEE DET E/S401)

MASONRY WALL CONSTRUCTION

1. MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530/ASCE 5/TMS 402).
2. MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602) AND THE PROJECT SPECIFICATIONS. IF THERE ARE ANY CONFLICTS BETWEEN THE TWO, THE MORE RESTRICTIVE REQUIREMENT SHALL BE APPLICABLE.
3. DETERMINE COMPRESSIVE STRENGTH OF MASONRY ($f'm$) BY THE UNIT STRENGTH METHOD (SECTION 1.4B.2 OF ACI 530.1/ASCE 6/TMS 602). THE STRENGTH OF GROUT SHALL BE DETERMINED BY TESTS IN ACCORDANCE WITH ASTM C1019.
4. MATERIALS:

C.M.U. -	ASTM C55 OR C90
GROUT -	ASTM C476
MORTAR -	TYPE S

5. USE TYPE S MORTAR FOR C.M.U. IN ALL STRUCTURAL BEARING, SHEAR, AND CURTAIN WALLS.
6. INTERSECTING BEARING WALLS SHALL BE ANCHORED BY ONE OF THE FOLLOWING METHODS:
   A. FIFTY PERCENT OF THE UNITS AT THE INTERSECTION SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 2" ON THE UNIT BELOW.
   B. WALLS SHALL BE TIED BY GALVANIZED STEEL STRAPS 1 1/2" x 1/4" x 24" WITH 2" BEND AT 90° EACH END. GROUT STRAPS SOLID INTO CORES OF BLOCK AT 24" MAXIMUM VERTICAL SPACING.
   C. THE ABOVE DO NOT APPLY AT CONTROL JOINTS OR WHERE NON-LOAD-BEARING PARTITIONS ABUT BEARING WALLS.
7. UNLESS NOTED OTHERWISE, PROVIDE GALVANIZED STEEL SLEEVE / 8 GA WIRE STABILIZING ANCHORS AT 24" O.C. VERTICAL AT ALL JOINTS BETWEEN MASONRY SHEARWALLS AND IN-PLACE MASONRY CONSTRUCTION (INCLUDING WALL CONSTRUCTION). FASTEN ANCHOR TO IN-PLACE WALL W/ (2) 3/16"ø x 1 1/4" MASONRY SCREWS.
8. CORNERS OF BEARING AND EXTERIOR WALLS SHALL BE BUILT IN RUNNING BOND.
9. ALL STRUCTURAL WALLS SHALL BE LAID IN RUNNING BOND. STACK BOND IS NOT ALLOWED.
10. PROVIDE A MINIMUM OF 16" DEPTH OF SOLID MASONRY UNDER THE BEARING ENDS OF ALL BEAMS AND LH AND DLH SERIES JOISTS, AND 8" DEPTH OF SOLID MASONRY UNDER THE BEARING ENDS OF ALL K SERIES JOISTS AND SLABS. GROUT CELLS (2 MINIMUM) BELOW JOISTS, BEARING AT JAMBS BELOW JOISTS, COORDINATE SIZE AND LOCATION OF ALL WALL PENETRATIONS WITH MEP CONTRACTORS, AND DIMENSION ON WALL ELEVATIONS. PRIOR TO SUBMITTAL OF SHOP DRAWINGS, INCOMPLETE SUBMITTALS WILL BE REJECTED WITHOUT REVIEW.
11. PROVIDE HORIZONTAL JOINT REINFORCEMENT PER ASTM A951, GALVANIZED, AT 16" CENTERS VERTICALLY. SEE SPECIFICATIONS. IF NOT OTHERWISE NOTED, PROVIDE A GALVANIZED LADDER TYPE JOINT REINFORCEMENT.
12. WELDING OF REINFORCING BARS (INCLUDING TACK WELDING) IS NOT PERMITTED.
13. LAP SPLICES FOR REINFORCING CENTERED IN CORES TO BE IN ACCORDANCE WITH THE FOLLOWING TABLE.

| BAR SIZE | WALL THICKNESS

SCREW NUMBER DESIGNATION	NOMINAL SCREW DIAMETER (IN)	MINIMUM CENTER-TO-CENTER SPACING	MINIMUM EDGE DISTANCE	TOTAL PANEL THICKNESS STEEL TO STEEL
10	0.190	9/16"	9/16"	0.11 MAXIMUM #2 POINT 0.175 MAXIMUM #3 POINT
12	0.216	5/8"	5/8"	0.14 MAXIMUM #2 POINT 0.21 MAXIMUM #3 POINT
1/4"	0.250	3/4"	3/4"	0.175 MAXIMUM #2 POINT 0.21 MAXIMUM #3 POINT

11. POWDER ACTUATED FASTENERS USED FOR FASTENING COLD-FORMED METAL FRAMING (RUNNER TRACKS, CLIP ANGLES, ETC.) TO CONCRETE SHALL BE 1 1/4" LONG, 0.157" SHANK DIAMETER, WITH PRE-MOUNTED PLASTIC WASHER. OTHER FASTENERS OF EQUIVALENT OR LARGER DIMENSION AND WITH EQUIVALENT OR GREATER LOAD CAPACITY MAY BE SUBSTITUTED UPON REVIEW AND APPROVAL FROM THE STRUCTURAL ENGINEER. FASTENERS SHALL BE ZINC PLATED WITH A MINIMUM ZINC THICKNESS OF 5 MICRONS.
12. POWDER ACTUATED FASTENERS USED FOR FASTENING COLD-FORMED METAL FRAMING (RUNNER TRACKS, CLIP ANGLES, ETC.) TO STEEL SHALL BE 3/4" LONG, 0.157" SHANK DIAMETER, WITH PRE-MOUNTED PLASTIC WASHER. OTHER FASTENERS OF EQUIVALENT OR LARGER DIMENSION AND WITH EQUIVALENT OR GREATER LOAD CAPACITY MAY BE SUBSTITUTED UPON REVIEW AND APPROVAL FROM THE STRUCTURAL ENGINEER. FASTENERS SHALL BE ZINC PLATED WITH A MINIMUM ZINC THICKNESS OF 5 MICRONS.
13. ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AWS/AWS D1.3 "STRUCTURAL WELDING CODE." LATEST EDITION.
14. ALL EXTERIOR WALLS SHALL BE BRACED BY EITHER 150US-54 COLD ROLLED CHANNEL, RUN HORIZONTALLY THROUGH THE STUD PUNCHOUTS AND ATTACHED TO EACH STUD, OR BY MINIMUM 1 1/2" WIDE x 20 GA STEEL STRAP RUN HORIZONTALLY ON BOTH SIDES OF STUDS AND ATTACHED TO EACH STUD. VERTICAL SPACING OF THE BRACING IS LIMITED TO A MAXIMUM OF 48" THROUGHOUT THE HEIGHT OF THE FRAMING. THE BRIDGING SHALL BE MADE TAUT DURING INSTALLATION AND SHALL NOT SAG OR BOW ALONG ITS LENGTH.
15. BRIDGING STRAPS SHALL BE IN PLACE PRIOR TO PLACEMENT OF SUPERIMPOSED LOADS ON STUD OR JOIST ASSEMBLIES. ALL SHALL BE TAUT BY PRE-TENSIONING. PRE-TENSIONING LOAD SHALL NOT EXCEED VALUES LISTED IN TABLE BELOW. INTERPOLATION MAY BE UTILIZED.

ONE-INCH WIDE STRAP BASE STEEL THICKNESS (MILS)	MAXIMUM ALLOWABLE PRETENSION LOAD PER INCH WIDTH (LBS)
33	75
43	100
54	180
68	230

16. STUDS SHALL BE SAWN TO FIT SQUARELY AND EVENLY AGAINST THE CONNECTING MEMBER. STUDS SHALL NOT BE THERMALLY CUT.
17. CONSTRUCT ALL CORNERS AND INTERSECTIONS WITH NOT LESS THAN THREE STUDS.
18. PROVIDE AND INSTALL A MINIMUM OF TWO FULL-HEIGHT STUDS (IN ADDITION TO JACK STUD OR STUDS) AT THE JAMBS OF ALL OPENINGS (WINDOWS, DOORS, LOUVERS, ETC.) EXCEEDING 2'-0" IN WIDTH.
19. SPLICES OR CUTOUTS IN THE FLANGES OF EXTERIOR WALL STUDS ARE PROHIBITED. EXTERIOR WALL STUDS SHALL RUN FULL HEIGHT FROM FLOOR TO FLOOR OR FLOOR TO ROOF WITHOUT SPLICE.
20. SEE HEADER SCHEDULE FOR HEADER SIZE AND NUMBER OF JACK STUDS.
21. SEE COLD-FORMED METAL FRAMING SCHEDULE FOR MATERIAL SIZES AND SPACINGS.
22. WHERE A DEFLECTION CLIP OR STATIC/RIGID CLIP IS NOTED TO COLD-FORMED FRAMING, CLIP SHALL OCCUR AT EACH MEMBER IN THE FRAMING SYSTEM UNLESS NOTED OTHERWISE (e.g. CLIP NOTED TO STUD WALL FRAMING SHALL OCCUR AT EACH STUD IN THE WALL SYSTEM).
23. THE OWNER MAY EMPLOY AN INDEPENDENT TESTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS OF COLD-FORMED CONSTRUCTION FOR CONFORMANCE WITH CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FACILITATE AND ALLOW ACCESS TO THE WORK FOR TESTS AND INSPECTIONS TO BE PERFORMED.
24. SUBMIT REPORTS DETAILING RESULTS OF ALL INSPECTIONS AND TESTING TO THE ARCHITECT/ENGINEER FOR APPROVAL WITHIN FIVE DAYS OF COMPLETION OF THE TESTS.
25. FIELD MODIFICATIONS OF COLD-FORMED STEEL SYSTEMS SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY ENGINEER OF RECORD.

SITE OBSERVATION BY THE STRUCTURAL ENGINEER

1. THE ENGINEER HAS NO CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES; FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK; FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK; OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, MATERIAL SUPPLIER, OR AGENTS THEREOF. THE ENGINEER DOES NOT GUARANTEE THE PERFORMANCE OF THE CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM ITS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR APPLICABLE LAWS, CODES, RULES, OR REGULATIONS. THE CONTRACTOR SHALL MAINTAIN SOLE RESPONSIBILITY FOR DEFECTS AND DEFICIENCIES, INCLUDING PROVIDING TESTING AND INSPECTION ONCE SUCH ARE DISCOVERED, AND FOR PROVIDING ENGINEERED SOLUTIONS TO THE EXTENT REQUIRED BY LAW.
3. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF BROWN+KUBICAN, PSC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY, QUANTITY, OR ACCURACY OF THE CONSTRUCTION WORK, BUT RATHER PERIODIC IN EFFORT TO INFORM THE CLIENT ABOUT GENERAL PROGRESS AND TO ADVISE THE CLIENT ABOUT OBSERVED DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

WATERPROOFING CONSTRUCTION

1. INSTALL MATERIALS IN ACCORDANCE WITH ALL SAFETY AND WEATHER CONDITIONS REQUIRED BY THE MANUFACTURER.
2. INSTALL MATERIALS ONLY AFTER SUBSTRATE WORK TO RECEIVE ITS APPLICATION IS COMPLETE.
3. APPLY MIRACLAY MASTIC (OR OTHER APPROVED) TO ALL CONSTRUCTION JOINTS AND AROUND PERIMETER OF WEEP HOLE OPENINGS AT A MINIMUM OF 1/4" THICKNESS AND 3" WIDTH.
4. REMOVE PROJECTIONS FROM THE WALL SURFACE IN EXCESS OF 3/4".
5. PREVENT GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE FROM HYDRATING BEFORE BEING COVERED WITH BACKFILL MATERIALS. WHEN THREAT OF RAIN IS IMMINENT OR BACKFILL IS NOT IMMEDIATE, GEOTEXTILE/BENTONITE CLAY WATERPROOFING MEMBRANE SHALL BE COVERED WITH POLYETHYLENE SHEATHING. SHEATHING SHALL BE STRETCHED SIDE OUT.
7. STARTING AT THE BOTTOM OF THE WALL, UN-ROLL PANELS AND NAIL ACROSS TOP OF PANEL NAILS AT 2' O.C.
8. OVERLAP ADJACENT PANELS 4" MINIMUM.
9. FASTEN MEMBRANE TO WALL AT 24" O.C. MAXIMUM ON SEAMS TO PREVENT BLOUSING WITH 1" CONCRETE NAILS AND WASHERS.
10. EXTEND WATERPROOFING MEMBRANE TO GRADE LEVEL AND FASTEN TO WALL AT 12" O.C. TROWEL A 1/2" THICK x 2" BEAD OF MIRACLAY MASTIC (OR OTHER APPROVED) AT THE TOP EDGE OF THE MEMBRANE.
11. CREATE A CANT AT BASE OF WALL TO FOOTING TRANSITION BY APPLYING A 1 1/2" CANT OF MIRACLAY GRANULES (OR OTHER APPROVED) OR MIRACLAY MASTIC (OR OTHER APPROVED).
12. STRIP IN ALL CORNERS AND TRANSITIONS WITH A 15" PIECE OF MEMBRANE TO DOUBLE THICKNESS IN THESE AREAS.
13. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

UNDERPINNING PROCEDURE

1. CONTRACTOR SHALL BE TOTALLY AND SOLELY RESPONSIBLE FOR ADEQUACY OF UNDERPINNING INSTALLATION AND THE COMPLETE PERMANENT PROTECTION OF ALL EXISTING CONSTRUCTION IN THE VICINITY OF THE INSTALLATION.
2. PROTECT ALL EXCAVATED SLOPES AGAINST DISPLACEMENT OF SOIL BY THE ELEMENTS OR OTHER CAUSES.
3. BEAR ALL UNDERPINNING BLOCKS ON COMPACT, UNDISTURBED SOIL.
4. ALL UNDERPINNING BLOCKS SHALL BLOCKS NOT MORE THAN 5'-0" WIDE.
5. NUMBERS SHOWN ON PLAN INDICATE SEQUENCE OF POURS, I.E., ALL BLOCKS NUMBERED PLACED ON THE SAME DAY.
6. PLACE UNDERPINNING BLOCKS TO WITHIN 2"± OF BOTTOM SIDE OF EXISTING FOOTING AND ALLOW TO SET UNTIL CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL SET A MINIMUM OF 24 HOURS.
7. WEDGE BETWEEN TOP OF BLOCK AND BOTTOM OF FOOTING WITH STEEL PLATES TO PICK UP FULL WALL LOAD.
8. DRY-PACK SPACE BETWEEN TOP OF BLOCK AND FOOTING WITH PREMIXED, NON-SHRINK NON-METALLIC GROUT TO FINISH EACH BLOCK.

DEMOLITION AND RECONSTRUCTION NOTES

1. EXISTING MASONRY WALLS, STEM WALLS, AND FOUNDATIONS BELOW NEW SLAB ON GRADE SHALL BE REMOVED IN ENTIRETY TO A MINIMUM OF 24" BELOW FINISHED FLOOR. EXISTING MASONRY WALLS, STEM WALLS, AND FOUNDATIONS BELOW OR AT THE SAME ELEVATION AS NEW FOOTINGS SHALL BE REMOVED IN ENTIRETY TO A MINIMUM OF 24" BELOW BOTTOM OF NEW FOUNDATION U.N.O.
2. WHERE EXISTING SLAB ON GRADE IS TO BE PARTIALLY REMOVED FOR PLUMBING, UTILITIES, NEW FOOTINGS, ETC., SAWCUT PERIMETER OF SLAB REMOVAL. PLACE NEW VAPOR RETARDER WITHIN EXTENT OF SLAB REMOVAL. DOWEL NEW SLAB TO EXISTING W/ 1/2"ø x 18" SMOOTH RODS DRILLED 6" INTO EXISTING SLAB AT MID-DEPTH, SEE DETAIL ___/S3.1. SAWCUT CONTRACTION JOINTS IN REPLACEMENT SLABS THAT EXCEED 400 SQ FT IN SIZE. IF EXISTING SLAB ON GRADE TO BE REMOVED IS NEXT TO EXISTING MASONRY WALL, SAWCUT PERIMETER OF SLAB REMOVAL CAREFULLY TO AVOID DAMAGING EXISTING MASONRY WALL.
3. EXTENT OF SLAB REPLACEMENT FOR INSTALLATION OF NEW UTILITIES, ETC. NOT SHOWN. CONTRACTOR TO COORDINATE SUCH WORK W/ SUBCONTRACTORS DURING BID.
4. AT NEW OPENINGS IN MASONRY WALLS THAT EXTEND DOWN TO FLOOR, REMOVE MASONRY TO 8" MINIMUM BELOW FINISHED FLOOR AND INFILL W/ NEW FLOOR SLAB.
5. WHERE EXISTING CONCRETE SLAB ON GRADE IS REMOVED AND REPLACED, LEVEL AND FILL EXISTING SUBGRADE WITH NEW CRUSHED STONE AS REQUIRED FOR PREPARATION OF NEW SLAB.
6. WHERE NEW OPENINGS IN EXISTING MASONRY WALLS OVERLAP WITH EXISTING OPENINGS AND LINTELS, CONTRACTOR SHALL SHORE EXISTING ROOF STRUCTURE AND WALL CONSTRUCTION, REMOVE EXISTING LINTEL TO ALLOW SPECIFIED BEARING FOR NEW LINTEL AND PATCH WALL CONSTRUCTION TO MATCH EXISTING.
7. PROCESS TO INSTALL STEEL LINTEL IN EXISTING MASONRY WALL:
   A. SHORE EXISTING WALL AT THE DIRECTION OF CONTRACTOR-EMPLOYED SHORING ENGINEER.
   B. SAWCUT POCKET IN EXISTING MASONRY FOR STEEL LINTEL. DO NOT OVERCUT CORNERS. GROUT CORES BELOW LINTEL BEARING SOLID DOWN TO FOUNDATION.
   C. INSTALL STEEL LINTEL TIGHTLY INTO POCKET. INFILL LINTEL POCKET W/ SOLID MASONRY.
   D. SAWCUT WINDOW / DOOR OPENING IN EXISTING MASONRY WALL BENEATH THE LINTEL. DO NOT OVERCUT CORNERS.
   E. TOOTH IN NEW C.M.U. AT JAMBS AS REQUIRED.
8. REPAIR OF ANY DAMAGE CAUSED TO THE BUILDING DURING DEMOLITION AND CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE:
THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DESIGNING, SUPPLYING, AND INSTALLING ALL TEMPORARY SHORING NECESSARY TO INSTALL NEW STRUCTURAL ELEMENTS. THE DESIGN OF THE SHORING SHALL BE DONE BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF KENTUCKY. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT (FOR THEIR RECORDS) TEMPORARY SHORING DRAWINGS (PLANS AND ANY NECESSARY DETAILS) THAT ARE SEALED, SIGNED AND DATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

SHORING / BRACING DESIGN AND INSTALLATION

1. THE GENERAL TRADES CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENGINEERING, SUPPLYING, AND INSTALLING ALL TEMPORARY SHORING AND BRACING NECESSARY TO RESIST GRAVITY AND LATERAL LOADS AS THE EXISTING BUILDING IS SELECTIVELY DEMOLISHED AND RECONSTRUCTED WITH NEW STRUCTURAL ELEMENTS. THE DESIGN OF SHORING SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KENTUCKY IN CONSIDERATION OF APPLIED, POTENTIAL AND CONSTRUCTION LOADING, CONSTRUCTION METHODS, TECHNIQUES AND SEQUENCE; AND SCHEDULE. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT (FOR THEIR RECORDS) TEMPORARY SHORING DRAWINGS (PLANS AND ALL NECESSARY DETAILS) THAT ARE SEALED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. SHORING SUBMITTAL SHALL ALSO INCLUDE A WRITTEN DESCRIPTION OF THE INTENDED CONSTRUCTION SEQUENCE. PREPARED BY THE SHORING ENGINEER AND REVIEWED AND APPROVED BY THE CONSTRUCTION MANAGER PRIOR TO SUBMITTAL TO THE ARCHITECT FOR THEIR RECORDS. SHORING SUBMITTAL SHALL INCLUDE WRITTEN DESCRIPTION OF LOADS AND LOAD COMBINATIONS CONSIDERED.
2. SUGGESTED SHORING DETAILS HAVE BEEN INCORPORATED INTO THE CONSTRUCTION DOCUMENTS IN SOME INSTANCES. WHERE PROVIDED, THEY SHALL BE CONSTRUED AS SUGGESTIONS ONLY WHEREIN IF SUCH SCHEME IS USED, THE DESIGN AND DETAILS MUST STILL BE VERIFIED BY (AND FULL RESPONSIBILITY TAKEN) BY THE SHORING ENGINEER.
3. SHORING AND BRACING IS REQUIRED, BUT IS NOT LIMITED TO, THE FOLLOWING:
   A. WHERE DEMOLITION OF FLOOR AND / OR ROOF MEMBERS REMOVE LATERAL BRACING TO WALL, COLUMN, OR PIER MEMBERS.
   B. WHERE NEW OPENINGS IN WALLS MUST BE CREATED.
   C. WHERE DEMOLITION OF BEARING WALLS AND / OR SUPPORT BEAMS REMOVE VERTICAL SUPPORT TO GRAVITY LOAD MEMBERS.
   D. WHERE DEMOLITION OF SHEAR WALLS, BRACED FRAMES, OR OTHER LATERAL LOAD RESISTING SYSTEM REMOVES BUILDING RESISTANCE TO LATERAL WIND, SEISMIC, OR EARTH LOADS.
4. CEASE DEMOLITION OPERATIONS AND NOTIFY ARCHITECT IF ANY EXISTING STRUCTURAL ELEMENT TO REMAIN IN SERVICE DEVELOPS CRACK, BOW, DEFLECTION, ETC. OR IF ANY COMPONENT OF THE EXISTING STRUCTURE APPEARS DAMAGED, CORRODED OR OTHERWISE COMPROMISED.

ROOF, FLOOR, OR WALL OPENINGS

1. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR MECHANICAL OR ELECTRICAL ITEMS.
2. SLEEVES AND OPENINGS SHALL BE LOCATED IN A MANNER THAT WILL MAINTAIN THE STRUCTURAL INTEGRITY OF THE ROOF, FLOOR, OR WALL SYSTEM.
3. NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

OPENINGS / PENETRATIONS / ATTACHMENTS TO STRUCTURE BY OTHER TRADES

1. THE CONTRACTOR SHALL COORDINATE AND VERIFY THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR OTHER TRADES IN STRUCTURAL ELEMENTS.

TO STRUCTURAL STEEL

1. FIELD CUTTING/DRILLING OF HOLES LARGER THAN 3/8" INTO BEAM FLANGES OR COLUMNS IS PROHIBITED EXCEPT WHERE REQUIRED FOR STRUCTURAL STEEL CONNECTIONS.
2. PENETRATIONS / HOLES THROUGH BEAM WEBS MAY BE POSSIBLE. TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING COST TO VERIFY ADEQUACY AND DESIGN AND FOR INSTALLATION COST OF OPENING AND ANY REINFORCEMENT.

TO OPEN WEB STEEL JOIST

1. DO NOT FIELD CUT ANY PORTION OF A STEEL JOIST.
2. FIELD DRILLING OF HOLES OF ANY SIZE INTO THE CHORDS OF A STEEL JOIST IS PROHIBITED EXCEPT WHERE REQUIRED FOR STRUCTURAL STEEL CONNECTIONS.
3. SUSPENDED LOADS OF LESS THAN 250 LBS MAY BE FASTENED TO THE BOTTOM HORIZONTAL (NEUTRAL AXIS OF A SINGLE ANGLE OF THE BOTTOM CHORD (ECCENTRIC TO THE JOIST) USING APPROPRIATELY-SIZED CLAMPING ANCHORS WITHOUT REINFORCEMENT OF THE JOIST. SUSPENDED LOADS OF LESS THAN 250 LBS MAY BE FASTENED CONCENTRICALLY TO THE TOP OR BOTTOM CHORD (BETWEEN THE ANGLES) USING APPROPRIATELY-SIZED HANGERS WITHOUT REINFORCEMENT OF THE JOIST. ONLY ONE CONCENTRATED LOAD IS ALLOWED PER JOIST WEB PANEL. ALL OTHER CONCENTRATED LOADS IN EXCESS OF THESE FORCES SHALL HAVE THE JOIST LOCALLY REINFORCED WITH FIELD-WELDED ANGLE TO THE OPPOSING CHORD'S NEAREST PANEL POINT. SEE STRUCTURAL DRAWINGS.

TO FLOOR DECK, ELEVATED SLABS, ROOF DECK

1. NO PENETRATIONS LARGER THAN 12" IN DIAMETER / SQUARE SHALL BE FIELD CUT IN THE STRUCTURAL MEMBER WITHOUT APPROVAL OF THE ENGINEER OF RECORD FOR THAT ELEMENT.
2. CUTTING / CORING OF ADJACENT PENETRATIONS, PERPENDICULAR TO THE STRUCTURAL SPAN, SHALL BE AVOIDED. ADJACENT PENETRATIONS THAT REMOVE MORE THAN 20% OF SUCH STRUCTURAL ELEMENT, IN ANY GIVEN 3-FOOT LENGTH, ARE PROHIBITED.

RENOVATION AND REUSE OF EXISTING STRUCTURES

1. THE OWNER SHALL UNDERSTAND THAT EXISTING STRUCTURES MAY HAVE BEEN CONSTRUCTED PRIOR TO BUILDING CODE ADOPTION, TO A PREVIOUS CODE EDITION, OR NONCOMPLIANT TO CODE AND THAT THE ENGINEER SHALL NOT BE RESPONSIBLE FOR DISCOVERY OF CONSTRUCTION TECHNIQUES, CONDITION, OR ADEQUACY OF EXISTING STRUCTURE TO REMAIN STRUCTURALLY UNMODIFIED AS PART OF THIS WORK.
2. IN ELECTING TO REUSE AN EXISTING STRUCTURE THE OWNER SHALL REMAIN SOLELY RESPONSIBLE FOR THE CONDITION AND ADEQUACY OF THE EXISTING STRUCTURE, EXCEPT WHERE MODIFIED BY THE CONSTRUCTION PROJECT.
3. DISCOVERY OF AND PROVISION FOR DEFERRED MAINTENANCE AND REPAIR OF THE STRUCTURE ARE NOT INCLUDED IN THE SCOPE OF THE ENGINEER OR CONSTRUCTION DOCUMENTS EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
4. IN KEEPING WITH CURRENT CODE PROVISIONS, EXISTING LOAD-CARRYING STRUCTURAL ELEMENTS MAY HAVE NOT BEEN STRENGTHENED, SUPPLEMENTED, REPLACED, OR OTHERWISE ALTERED IF CALCULATIONS SHOWED:
   a. NO MORE THAN 5% INCREASE IN DESIGN GRAVITY LOAD APPLIED TO THAT EXISTING STRUCTURAL ELEMENT AS A RESULT OF THE INTENDED ALTERATIONS.
   b. NO MORE THAN 10% INCREASE IN DEMAND-CAPACITY RATIO OF AN EXISTING LATERAL LOAD-CARRYING ELEMENT OR ALTERATION RESULTING IN A STRUCTURAL IRREGULARITY.

MAINTENANCE STATEMENT AND STRUCTURE LIFESPAN

1. THE ENGINEER MAKES NO CLAIM OR AGREEMENT AS TO THE LIFESPAN OF THE BUILDING STRUCTURE. THE CLIENT AND OWNER SHALL UNDERSTAND THAT STRUCTURAL TYPES DO HAVE LIFESPAN RELATIVE TO INITIAL COST AND MAINTENANCE AND THAT BY REQUESTING OR ACCEPTING A STRUCTURAL SYSTEM OF LOWER INITIAL COST THAT THE USEABLE LIFESPAN WILL DECREASE AND MAINTENANCE INCREASE.
2. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. THE ENGINEER SHALL NOT BE HELD LIABLE FOR MAINTENANCE REQUIREMENTS OR DETERIORATION RESULTING FROM LACK OF BUILDING MAINTENANCE.
3. MAINTENANCE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, AS, BUT NOT LIMITED TO: PAINTING OF STRUCTURAL STEEL AND LINTELS, PROTECTIVE COATING FOR CONCRETE AND TIMBER, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, TIMELY REPAIR OF SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

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NOT FOR CONSTRUCTION

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BG MOVING FORWARD

100% DESIGN DEVELOPMENT

GENERAL NOTES CONTINUED

BULLITT COUNTY PUBLIC SCHOOLS
BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

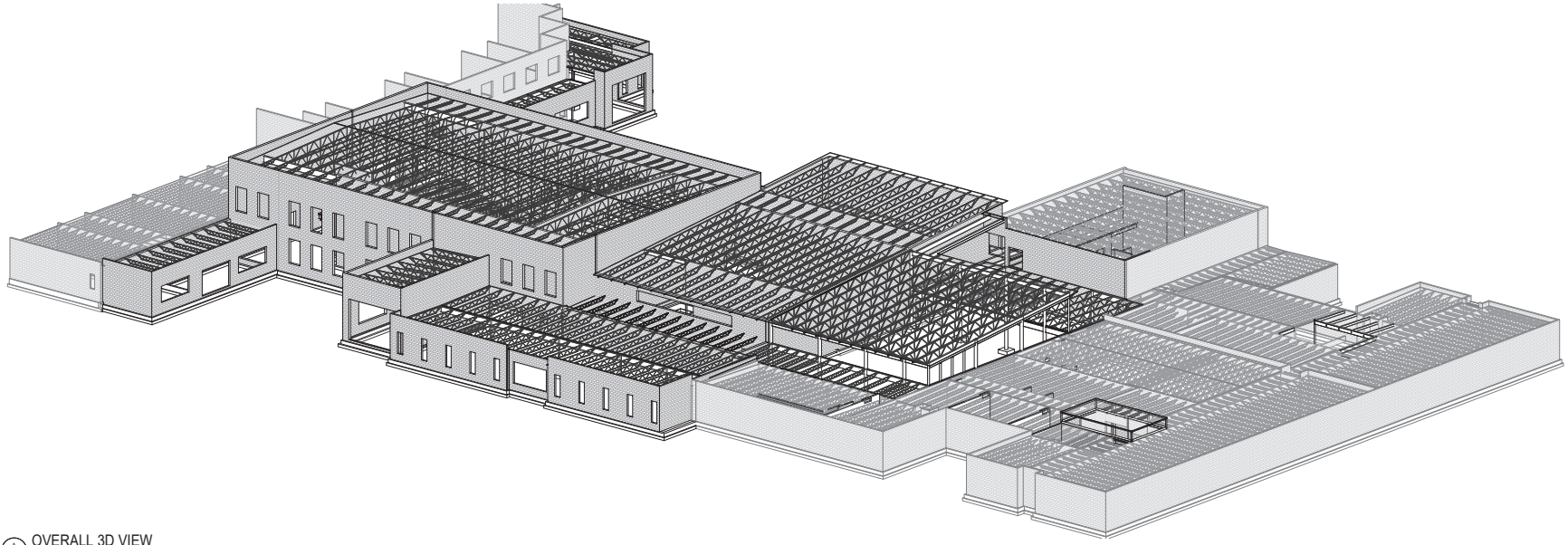
S1.2

STRUCTURAL SPECIAL INSPECTIONS CHART

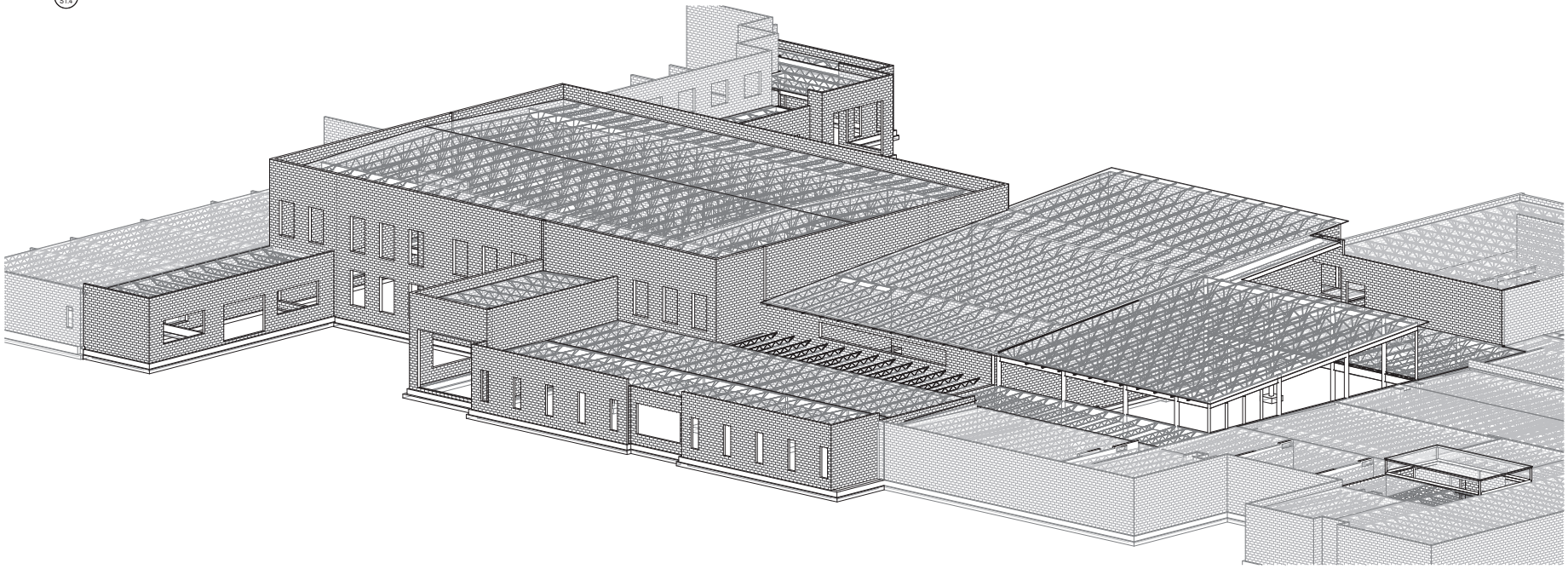
COMPONENT	TEST OR SPECIAL INSPECTION	PERIODIC OR CONTINUOUS	ACCEPTABLE QUALIFICATIONS
FABRICATORS (IBC 1704.2.5)	INSPECT THE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS WHERE SUCH WORK IS BEING PERFORMED ON THE PREMISES OF THE FABRICATOR'S SHOP 1. FABRICATORS SHALL BE EXEMPT FROM SPECIAL INSPECTION WHEN A QUALIFIED CERTIFICATION AUTHORITY HAS PERIODICALLY REVIEWED AND APPROVED FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND FABRICATION PRACTICES. SUBJECT TO COMPLIANCE WITH KENTUCKY BUILDING CODE REQUIREMENTS, QUALIFIED CERTIFICATION AUTHORITIES PROVIDING CERTIFICATION WHICH MAY BE APPLICABLE TO PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: a. STRUCTURAL STEEL FABRICATORS – AISC CERTIFIED. b. PRE-ENGINEERED METAL BUILDING SYSTEM FABRICATORS - IAS INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS, AC472. c. STEEL JOIST FABRICATORS – SJI CERTIFIED. d. METAL PLATE CONNECTED WOOD TRUSS FABRICATORS – TPI CERTIFIED. e. SHOP-FABRICATED COLD-FORMED METAL TRUSSES – CFSEI CERTIFIED. f. PRECAST CONCRETE FABRICATORS – PCI CERTIFIED.	PERIODIC	COMPLY WITH SECTIONS BELOW WHEN REQUIRED
	VERIFY THAT THE FABRICATOR MAINTAINS AND REVIEW FOR COMPLETENESS FABRICATOR'S DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES, WHICH PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCE STANDARDS. REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.	PERIODIC	QUALIFIED CERTIFICATION AUTHORITY
	PERFORM SPECIAL INSPECTIONS AT FABRICATOR'S SHOP AS OUTLINED IN THIS CHART FOR EACH TYPE OF CONSTRUCTION.	- - - -	
STEEL (AND OTHER METAL) CONSTRUCTION (IBC 1705.2)	PROVIDE SPECIAL INSPECTION OF THE FABRICATION OF STEEL STRUCTURAL ELEMENTS AND ASSEMBLIES IN ACCORDANCE WITH THE FABRICATORS SECTION IN THIS CHART.	- - - -	
	VERIFY THAT CERTIFICATION NUMBERS ON BOLT, NUT, AND WASHER CONTAINERS CORRESPOND TO THE IDENTIFICATION NUMBERS ON MILL TEST REPORTS AND THAT MANUFACTURER'S SYMBOL AND GRADE MARKINGS APPEAR ON ALL BOLTS AND NUTS. ALSO VERIFY THAT BOLTS, NUTS, AND WASHERS ARE BEING PROPERLY CARED FOR AT THE SITE.	PERIODIC	CWI, SSSI, SWSI
	VERIFY THAT IDENTIFICATION MARKINGS ON STRUCTURAL STEEL MEMBERS CONFORM TO ASTM STANDARDS SPECIFIED ON THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	CWI, SSSI, SWSI
	VERIFY THAT IDENTIFICATION MARKINGS ON WELD FILLER MATERIALS CONFORM TO ASTM STANDARDS SPECIFIED ON THE APPROVED CONSTRUCTION DOCUMENTS. ALSO VERIFY THAT WELD FILLER MATERIAL IS BEING PROPERLY CARED FOR.	PERIODIC	CWI, SSSI, SWSI
	VERIFY THAT ANCHOR RODS AND OTHER EMBEEDMENTS THAT ARE TO SUPPORT STRUCTURAL STEEL ARE OF PROPER DIAMETER, GRADE, TYPE, LENGTH, AND EXTENT OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.	PERIODIC	CWI, SSSI, SWSI
	TEST AND INSPECT HIGH-STRENGTH BOLTED CONNECTIONS ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS": 1. VERIFY THAT FASTENERS ARE OF CORRECT GRADE, TYPE, DIAMETER, LENGTH, AND SHEAR PLANE LOCATIONS FOR THE JOINT DETAIL. 2. VERIFY THAT CONNECTING ELEMENTS MEET REQUIREMENTS FOR FAYING SURFACE AND HOLE PREPARATION. 3. PROVIDE PRE-INSTALLATION VERIFICATION TESTING OF FASTENER ASSEMBLIES AND METHODS. TESTING/INSPECTION METHODS FOR BOLTS SHALL BE DETERMINED, APPROVED, AND CALIBRATED AS NECESSARY PRIOR TO THE START OF STEEL ERECTION. a. UTILIZE A TENSION CALIBRATOR TO CONFIRM THE SUITABILITY OF THE COMPLETE FASTENER ASSEMBLY FOR PRETENSIONED INSTALLATION AND CONFIRM THE PROCEDURE AND PROPERTIES BY THE BOLTING CREW OF THE PRETENSIONING METHOD TO BE USED. b. ENSURE THAT JOINT PLIES ARE BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION. c. CONFIRM FASTENER COMPONENT IS NOT TURNED BY THE WRENCH PREVENTING ROTATION. d. CONFIRM THAT FASTENERS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID PART TOWARDS THE FREE EDGES. 4. VERIFY THAT FASTENER ASSEMBLIES WITH REQUIRED WASHERS ARE PLACED IN ALL HOLES AND ARE POSITIONED AS REQUIRED. a. VERIFY THAT DIRECT-TENSION INDICATOR GAPS COMPLY WITH ASTM F 959, TABLE 2. b. VERIFY THAT TWIST-OFF-TYPE TENSION-CONTROL ASSEMBLIES HAVE BEEN PROPERLY TIGHTENED. 5. PERFORM PERIODIC INSPECTION OF BEARING TYPE CONNECTIONS. 6. PERFORM CONTINUOUS INSPECTION OF SLIP-CRITICAL TYPE CONNECTIONS.	PERIODIC, U.N.O.	CWI, SSSI, SWSI
	TEST AND INSPECT BLIND EXPANSION BOLTED CONNECTIONS AS FOLLOWS: 1. VERIFY BLIND EXPANSION BOLTS ARE CORRECT TYPE, DIAMETER, AND LENGTH FOR THE JOINT DETAIL. 2. VERIFY THAT CONNECTING ELEMENTS MEET REQUIREMENTS FOR HOLE SIZING. 3. PERIODICALLY VERIFY INSTALLED TORQUE OF 100% OF ALL BLIND EXPANSION BOLTS WITH A CALIBRATED TORQUE WRENCH. COORDINATE MINIMUM INSTALLED TORQUE WITH MANUFACTURER OF BLIND EXPANSION BOLTS INSTALLED.	PERIODIC	SWSI
	INSPECT AND TEST WELDS DURING FABRICATION (WHERE APPLICABLE) AND ERECTION OF STRUCTURAL STEEL, STEEL DECK, AND STUDS/ANCHORS AS FOLLOWS:		
	1. CERTIFY WELDERS AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES. a. CONFIRM THAT WELDING PROCEDURE SPECIFICATIONS ARE AVAILABLE. b. CONFIRM THAT CONTRACTOR HAS INSTITUTED A WELDER IDENTIFICATION SYSTEM.	PERIODIC	CWI, SWSI
	2. INSPECT WELD PROCEDURES AND WELDERS ACCORDING TO THE REQUIREMENTS OF AWS D1.1 AND AISC 360. a. CONFIRM THAT THERE IS NO WELDING OVER CRACKED TACK WELDS. b. CONFIRM THAT ENVIRONMENTAL CONDITIONS ARE BEING PROPERLY CONSIDERED (WIND SPEED, PRECIPITATION, AND TEMPERATURE). c. CONFIRM THAT WELDING PROCEDURE SPECIFICATIONS ARE BEING FOLLOWED (EQUIPMENT SETTINGS, TRAVEL SPEED, MATERIAL USAGE, SHIELDING TYPE AND FLOW RATE, PREHEATING REQUIREMENTS, MAINTENANCE OF INTERPASS TEMPERATURE, AND PROPER WELDER POSITIONING). d. CONFIRM WELDING TECHNIQUES (INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, AND THAT EACH PASS MEETS QUALITY REQUIREMENTS).	PERIODIC	CWI, SWSI
	3. USE NON-DESTRUCTIVE TESTING ACCORDING TO AWS D1.1 ON ALL WELDS THAT APPEAR TO HAVE EXCESSIVE INCLUSIONS, POROSITIES, CRACKS, AND INCOMPLETE PENETRATIONS AS DESCRIBED BY AWS D1.1 OR HAVE THE QUESTIONABLE WELD REMOVED AND REWELDED.	PERIODIC	AWS-UT-2
	4. PERFORM OBSERVATION ON THE FIRST TWO WELDS INSTALLED BY EACH WELDER AND SUBSEQUENT NON-DESTRUCTIVE TESTING ACCORDING TO AWS D1.1 ON ALL (100%) COMPLETE PENETRATION AND/OR PARTIAL PENETRATION GROOVE WELDS AND ON ALL SPLICES OF MAIN MEMBERS WHERE THOSE SPLICES ARE REQUIRED. a. CONFIRM JOINT PREPARATION. b. CONFIRM DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, AND BEVEL). c. CONFIRM CLEANLINESS OF WELDS AND BASE MATERIAL (CONDITION OF STEEL SURFACES). d. CONFIRM TACKING (TACK WELD QUALITY AND LOCATION). e. CONFIRM BACKING TYPE AND FIT (AS APPLICABLE) AND REMOVAL SUBSEQUENT TO WELD PLACEMENT. f. PERFORM ULTRASONIC TESTING IN ACCORDANCE WITH AWS D.1.1 FOR STEEL MATERIAL 5/16" THICK AND GREATER. FOR THINNER MATERIAL, PERFORM VISUAL OBSERVATIONS IN ACCORDANCE WITH AWS D1.1.	CONTINUOUS	CWI, SWSI
	5. PERFORM INSPECTION ACCORDING TO AWS D1.1 (VISUAL INSPECTION) ON ALL MULTI-PASS FILLET WELDS AND ON ALL SINGLE-PASS FILLET WELDS LARGER THAN 5/16". a. CONFIRM DIMENSIONS (ALIGNMENT, GAPS AT ROOT, ROOT SIZE, LENGTH), SPACING, ORIENTATION, AND LOCATIONS. b. CONFIRM CLEANLINESS OF WELDS AND BASE MATERIAL (CONDITION OF STEEL SURFACES). c. CONFIRM TACKING (TACK WELD QUALITY AND LOCATION). d. CONFIRM VISUAL ACCEPTANCE CRITERIA (CRACK PROHIBITION, WELD/BASE FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY).	CONTINUOUS	CWI, SWSI
	6. PERFORM INSPECTION ACCORDING TO AWS D1.1 (VISUAL INSPECTION) ON ALL SINGLE-PASS FILLET WELDS 5/16" AND SMALLER AND ON ALL FLOOR, FORM, AND ROOF DECK WELDS. a. CONFIRM DIMENSIONS (ALIGNMENT, GAPS AT ROOT, ROOT SIZE, LENGTH), SPACING, ORIENTATION, AND LOCATIONS. b. CONFIRM CLEANLINESS OF WELDS AND BASE MATERIAL (CONDITION OF STEEL SURFACES). c. CONFIRM TACKING (TACK WELD QUALITY AND LOCATION). d. CONFIRM VISUAL ACCEPTANCE CRITERIA (CRACK PROHIBITION, WELD/BASE FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY).	PERIODIC	CWI, SWSI
	7. OBSERVE AND DOCUMENT REPAIR ACTIVITIES.	PERIODIC	CWI, SWSI
	INSPECT ALL MECHANICAL FASTENING OF FLOOR, FORM, AND ROOF DECK. VERIFY FASTENER TYPE, LENGTH, AND DIAMETER. CONFIRM PERIMETER AND INTERMEDIATE FASTENER SPACING.	PERIODIC	CWI, SWSI
	IN ADDITION TO VISUAL INSPECTION, INSPECT AND TEST FIELD WELDED SHEAR CONNECTORS ACCORDING TO REQUIREMENTS OF AWS D1.1 AND AS FOLLOWS: 1. VERIFY NUMBER, LOCATION, AND APPLICATION OF ALL WELD SHEAR CONNECTORS. 2. PERFORM BEND TESTS ON A MINIMUM OF 10 PERCENT OF ALL SHEAR CONNECTORS AND WHEN VISUAL INSPECTIONS REVEAL EITHER LESS THAN A CONTINUOUS 360-DEGREE FLASH OR WELDING REPAIRS TO ANY SHEAR CONNECTOR. 3. CONDUCT TESTS ON ADDITIONAL SHEAR CONNECTORS WHEN WELD FRACTURE OCCURS ON SHEAR CONNECTORS ALREADY TESTED, ACCORDING TO REQUIREMENTS OF AWS D1.1.	PERIODIC	CWI, SWSI
	INSPECT ALL STEEL FRAME CONNECTION DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND APPROVED STEEL ERECTION SHOP DRAWINGS. 1. VERIFY COMPLETENESS AND CONSTRUCTION OF ALL BRACING, STIFFENING, AND CONNECTIONS. 2. VERIFY LOCATION, COMPLETENESS, ACCURACY, AND JOINT DETAILS OF ALL MEMBERS.	PERIODIC	PE

COMPONENT	TEST OR SPECIAL INSPECTION	PERIODIC OR CONTINUOUS	ACCEPTABLE QUALIFICATIONS
STRUCTURAL ANCHORS	WHERE PERIODIC ANCHOR INSPECTION IS PERMITTED, THE SPECIAL INSPECTOR SHALL VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ANCHOR BY CONSTRUCTION PERSONNEL ON SITE. SUBSEQUENT INSTALLATIONS OF THE SAME ANCHOR TYPE AND SIZE BY THE SAME CONSTRUCTION PERSONNEL ARE PERMITTED TO BE PERFORMED IN THE ABSENCE OF THE SPECIAL INSPECTOR. FOR ONGOING INSTALLATIONS OVER AN EXTENDED PERIOD, GREATER THAN THREE MONTHS, THE SPECIAL INSPECTOR MUST MAKE REGULAR INSPECTIONS TO CONFIRM CORRECT HANDLING AND INSTALLATION OF THE ANCHORS.	- - - -	
	INSPECT INSTALLATIONS OF ALL ADHESIVE ANCHORS THAT RESIST SUSTAINED TENSION LOADS IN HORIZONTAL OR UPWARDLY-INCLINED ORIENTATIONS.	CONTINUOUS	RCSI, SMSI
	ADDITIONAL TO REQUIREMENTS LISTED BELOW, INSPECT ALL POST-INSTALLED ANCHORS AS FOLLOWS: VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANING PROCEDURE, EMBEDMENT DEPTH, SUBSTRATE TYPE (MATERIAL), SUBSTRATE THICKNESS, DRILL BIT TYPE AND SIZE, HOLE DIMENSIONS, ANCHOR SPACING, MINIMUM EDGE DISTANCE, ANCHOR PLUMBNESS (RELATIVE TO HORIZONTAL OR VERTICAL AS APPLICABLE), AND ADHERENCE TO THE ANCHOR MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.	PERIODIC	RCSI, SMSI
	INSPECT DRILLED-IN ADHESIVE TYPE ANCHORS AS FOLLOWS: VERIFY ADHESIVE PRODUCT AND EXPIRATION DATE. PROOF LOAD 25% OF EACH TYPE AND SIZE OF ANCHOR IN ACCORDANCE WITH RECOMMENDATIONS OF THE ANCHOR MANUFACTURER. ADHESIVE ANCHORS AND CAPSULE ANCHORS SHALL NOT BE TORQUE TESTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF MORE THAN 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED TORQUE OR PROOF LOAD WITHIN THE LIMITS AS DEFINED IN THE SPECIFICATIONS, ALL ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE TESTED, UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. 1. PROOF LOADS SHALL BE APPLIED WITH A CALIBRATED HYDRAULIC RAM. DISPLACEMENT OF ADHESIVE AND CAPSULE ANCHORS AT PROOF LOAD SHALL NOT EXCEED 0.1%, WHERE D IS THE NOMINAL ANCHOR DIAMETER.	PERIODIC	RCSI, SMSI
	INSPECT 100% OF EXPANSION TYPE MECHANICAL ANCHORS AS FOLLOWS: VERIFY INSTALLED TORQUE OF ANCHORS WITH A CALIBRATED TORQUE WRENCH. COORDINATE MINIMUM INSTALLED TORQUE WITH MANUFACTURER OF ANCHORS INSTALLED.	PERIODIC	RCSI, SMSI
	INSPECT 100% OF CONCRETE AND MASONRY SCREW TYPE ANCHORS AS FOLLOWS: VERIFY INSTALLATION TORQUE (DO NOT EXCEED ANCHOR MANUFACTURER PUBLISHED MAXIMUM INSTALLATION TORQUE). MAXIMUM IMPACT WRENCH TORQUE RATING, AND ANCHOR TIGHTNESS TO SUPPORTED COMPONENT.	PERIODIC	RCSI, SMSI
CONCRETE CONSTRUCTION (IBC 1705.3)	PROVIDE SPECIAL INSPECTION OF THE FABRICATION OF CONCRETE STRUCTURAL ELEMENTS AND ASSEMBLIES IN ACCORDANCE WITH THE FABRICATORS SECTION IN THIS CHART	- - - -	
	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	RCSI, ACI-2, NICET-2C
	VERIFY THE USE OF THE PROPER DESIGN MIX.	PERIODIC	RCSI, ACI-2, NICET-2C
	VERIFY USE OF PROPER GRADE AND ASTM DESIGNATION OF REINFORCING STEEL.	PERIODIC	RCSI, ACI-2, NICET-2C
	PERFORM INSPECTION ON PLACEMENT, SPACING, CLEAR COVER, NUMBER, AND SPLICE LAP LENGTHS OF REINFORCING STEEL.	PERIODIC	RCSI, NICET-2C
	PERFORM INSPECTION ACCORDING TO AWS D1.4-1998 ON ALL WELDING OF REINFORCING STEEL.	CONTINUOUS	CWI, AWS-UT-2
	MONITOR CONCRETE QUALITY BY MEANS OF SITE AND LABORATORY TESTS. THE INSPECTION AGENCY IS AUTHORIZED TO REJECT PLASTIC CONCRETE NOT CONFORMING TO SPECIFICATIONS. IMMEDIATELY INFORM THE CONTRACTOR, THE ARCHITECT AND THE STRUCTURAL ENGINEER OF INADEQUACIES IN CONCRETE QUALITY. SAMPLING AND TESTING FOR QUALITY CONTROL DURING CONCRETE PLACEMENT SHALL INCLUDE THE FOLLOWING: 1. TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS: a. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 50 CU. YD., BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. b. SLUMP: ASTM C 143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE. c. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; **[ASTM C 173, VOLUMETRIC METHOD, FOR STRUCTURAL LIGHTWEIGHT CONCRETE]** ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. d. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW OR 80 DEG F AND ABOVE, AND ONE TEST FOR EACH SET OF COMPOSITE SAMPLE. **e. UNIT WEIGHT: ASTM C 567 FRESH UNIT WEIGHT OF STRUCTURAL LIGHTWEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.** f. COMPRESSION TEST SPECIMEN: ASTM C 31; ONE SET OF FOUR STANDARD 6" DIAMETER BY 12" OR FIVE STANDARD 4" DIAMETER BY 8" CYLINDERS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS OTHERWISE DIRECTED. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED TEST SPECIMENS ARE REQUIRED. g. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; TEST ONE SPECIMEN AT 7 DAYS, TWO 6"x12" OR THREE 4"x8" SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED. ADDITIONAL CYLINDER TESTS (SUCH AS AT 14 DAYS) FOR CONTRACTOR CONVENIENCE AND SCHEDULING SHALL BE PAID FOR BY THE CONTRACTOR. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF SPECIFIED NUMBER SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED. h. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED. i. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE. j. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS THE SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI. 2. TEST RESULTS SHALL BE REPORTED IN WRITING TO ARCHITECT, STRUCTURAL ENGINEER, READY MIX PRODUCER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.	CONTINUOUS	RCSI, ACI-2, NICET-1
	PERFORM INSPECTION OF CONCRETE PLACEMENT TO VERIFY PROPER APPLICATION TECHNIQUES, INCLUDING BUT NOT LIMITED TO SLABS ON DECK, SLABS ON GRADE, WALLS, COLUMNS, GRADE BEAMS, FOOTINGS, FRAMED CONCRETE SLABS, BEAMS, AND JOISTS.	CONTINUOUS	RCSI, ACI-2, NICET-1
	PERFORM INSPECTION OF CONCRETE CURING PROCEDURES TO VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE, PROTECTION, AND TECHNIQUES.	PERIODIC	RCSI, ACI-2, NICET-1
	PROVIDE INSPECTION OF THE ERECTION OF STRUCTURAL PRECAST CONCRETE MEMBERS.	PERIODIC	RCSI, ACI-2, NICET-1
	TEST THE F-NUMBER TOLERANCES OF CONCRETE SLABS IN ACCORDANCE WITH THE PROVISIONS SET FORTH BY ASTM COMMITTEE E1.21.10. ALL TESTS SHALL BE PERFORMED WITHIN THREE WORKING DAYS AFTER CONCRETE PLACEMENT AND PRIOR TO ANY FORM REMOVAL. 1. SLABS SHALL BE TESTED FOR F-NUMBER TOLERANCES AT CAFETERIA, ALL CORRIDORS, AND TWO OUT OF EVERY TEN CLASSROOMS. CLASSROOMS TESTED SHALL BE SPACED EVENLY THROUGHOUT THE BUILDING. QUANTITY OF TEST READINGS FOR EACH AREA SHALL BE PER ASTM E1155. a. TEST ONE ADDITIONAL CLASSROOM FOR EACH CLASSROOM NOT WITHIN SPECIFIED F-NUMBER TOLERANCES.	PERIODIC	RCSI, ACI-2, NICET-1
	NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION.	- - - -	
	ADDITIONAL TESTS. TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ARCHITECT. TESTING AND INSPECTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C 42 OR BY OTHER METHODS AS DIRECTED BY ARCHITECT. 1. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.	- - - -	
	PERFORM INSPECTION OF CONCRETE INSIDE INSULATED CONCRETE FORMS (ICF) BY VERIFYING THE CONDITION OF THE CONCRETE BEHIND THE FORMS IN ACCORDANCE WITH THE ICF SPECIFICATION.	PERIODIC	RCSI, ACI-2, NICET-1

COMPONENT	TEST OR SPECIAL INSPECTION	PERIODIC OR CONTINUOUS	ACCEPTABLE QUALIFICATIONS
MASONRY CONSTRUCTION (IBC 1705.4)	AT ONSET OF MASONRY CONSTRUCTION AND PERIODICALLY THEREAFTER, VERIFY PROPORTIONS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, AND LOCATION OF REINFORCEMENT AND CONNECTORS.	PERIODIC	SMSI
	PERFORM INSPECTION TO VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS, TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING ANCHORAGE TO OTHER STRUCTURAL ELEMENTS, FRAMES, AND CONSTRUCTION, AND SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT.	PERIODIC	SMSI
	PRIOR TO EACH GROUTING OPERATION, VERIFY CLEANLINESS OF GROUT SPACE, PLACEMENT OF ALL REINFORCEMENT AND CONNECTORS, INCLUDING LAP SPLICE LENGTHS, AND PROPORTIONS OF SITE-PREPARED GROUT.	PERIODIC	SMSI
	PERFORM INSPECTION OF GROUT PLACEMENT TO VERIFY COMPLIANCE WITH CONTRACT DOCUMENT PROVISIONS.	CONTINUOUS	SMSI
	PERFORM INSPECTION OF MASONRY CURING PROCEDURES TO VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE, PROTECTION, AND TECHNIQUES.	PERIODIC	SMSI
	FOR CONCRETE MASONRY DESIGNED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD (AS SPECIFIED ON THE GENERAL NOTES), SAMPLE AND TEST GROUT COMPRESSIVE STRENGTH ACCORDING TO ASTM C 1019, MORTAR COMPRESSIVE STRENGTH ACCORDING TO ASTM C780, AND THE FOLLOWING: 1. COMPRESSION TEST SAMPLE: ONE SET OF THREE STANDARD CUBE SPECIMENS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS OTHERWISE DIRECTED. MOLD AND STORE CUBES FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED TEST SPECIMENS ARE REQUIRED. 2. COMPRESSIVE-STRENGTH TESTS: AT THE COMMENCEMENT OF CONSTRUCTION TAKE SAMPLES PRIOR TO CONSTRUCTION. THE NEXT 4 SAMPLES FOR EACH 2,000 SQ FEET OF WALL CONSTRUCTION, AND THEN FOLLOWING THEREAFTER FOR EACH 5,000 SQ FEET OF WALL CONSTRUCTION. TEST ONE SPECIMEN AT 7 DAYS, ONE SPECIMEN TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.	PERIODIC	SMSI
SOILS (IBC 1705.6)	INSPECT THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS FOR COMPLIANCE WITH THE RECOMMENDATIONS OF THE APPROVED GEOTECHNICAL INVESTIGATION REPORT.	PERIODIC	SSI, NICET-2S
	WHERE THE SITE IS SPECIFIED TO BE UNDERCUT BY THE GEOTECHNICAL INVESTIGATION REPORT, VERIFY ALL UNSUITABLE SOILS, DEBRIS, ROCK AND OTHER MATERIALS HAVE BEEN REMOVED FROM BELOW BUILDING FOOTPRINT. 1. VERIFY THAT TOPSOIL HAS BEEN STRIPPED AND REMOVED FROM BUILDING FOOTPRINT. 2. VERIFY ALL EXISTING UNCONTROLLED FILLS, SOFT AND UNSUITABLE SOILS HAVE BEEN REMOVED FROM BELOW APPLICABLE FOUNDATION ELEMENTS. TEST NATIVE MATERIAL AT BASE OF CUT TO ENSURE THAT UNSUITABLE MATERIAL HAS BEEN COMPLETELY REMOVED. NOTIFY ARCHITECT IF UNACCEPTABLE MATERIAL REMAINS AFTER COMPLETION OF SPECIFIED UNDERCUT. 3. FOR SOIL BEARING FOUNDATIONS, VERIFY THAT EXPANSIVE CLAYS AND BEDROCK HAVE BEEN COMPLETELY REMOVED TO ALLOW SUFFICIENT SOIL CUSHION DEPTH AS SPECIFIED. 4. AT FOUNDATIONS BEARING ON EXISTING FILL OR SHALE SOILS, PERFORM DYNAMIC CONE PENETROMETER TESTING AT EACH SPREAD FOOTING WHEN FOUNDATION EXCAVATION IS COMPLETE TO ENSURE BEARING CAPACITY IS WITHIN THE ALLOWABLE. COMMUNICATE NET ALLOWABLE.	PERIODIC	SSI, NICET-2S
	OBSERVE PROOFROLLING OF THE BUILDING PAD AREAS PRIOR TO COMMENCEMENT OF FILL/SUBBASE PLACEMENT, AND DURING FILL PLACEMENT (IF REQUIRED).	PERIODIC	SSI, NICET-2S
	PRIOR TO PLACEMENT OF ANY ENGINEERED FILL, DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE APPROVED GEOTECHNICAL INVESTIGATION REPORT. 1. TEST SAMPLES FROM PROPOSED BORROW ON- AND OFF- SITE SOURCES OF FILL FOR COMPLIANCE WITH THE APPROVED MATERIALS LISTING AND OTHER REQUIREMENTS OF THE GEOTECHNICAL REPORT AND THE SPECIFICATIONS. CLAY SOILS SHALL BE CHECKED FOR ACCEPTABLE PLASTICITY INDEX PRIOR TO MOVING ON SITE. MAXIMUM ORGANIC CONTENT SHALL BE VERIFIED BY INSPECTION OR TEST TO BE BELOW ACCEPTABLE LIMITS.	PERIODIC	SSI, NICET-2S
	DURING PLACEMENT AND COMPACTION OF THE ENGINEERED FILL MATERIAL, VERIFY THAT THE MATERIAL BEING USED, MAXIMUM LIFT THICKNESS, AND IN-PLACE DRY DENSITY COMPLY WITH THE RECOMMENDATIONS OF THE APPROVED GEOTECHNICAL REPORT. 1. SOIL FILLS SHALL BE EXEMPT FROM SPECIAL INSPECTION WHEN TOTAL FILL PLACEMENT IS LESS THAN 12 INCHES DEEP. 2. TESTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER.	CONTINUOUS	SSI, NICET-2S
	FOOTING SUBGRADE: AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM SHALL BE PERFORMED TO VERIFY DESIGN BEARING CAPACITIES. SUBSEQUENT VERIFICATION AND APPROVAL OF OTHER FOOTING SUBGRADES MAY BE BASED ON A VISUAL COMPARISON OF SUBGRADE WITH TESTED SUBGRADE WHEN



A S1.4 OVERALL 3D VIEW



B S1.4 AREA A 3D VIEW

NOTE:
3D VIEWS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY.
3D STRUCTURAL MODEL IS NOT GUARANTEED TO BE COMPLETE OR EXACT.
SEE ALL OTHER SHEETS FOR ACCURATE STRUCTURAL PLANS AND DETAILS.

100% DESIGN DEVELOPMENT

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BG MOVING FORWARD

ISOMETRIC VIEWS

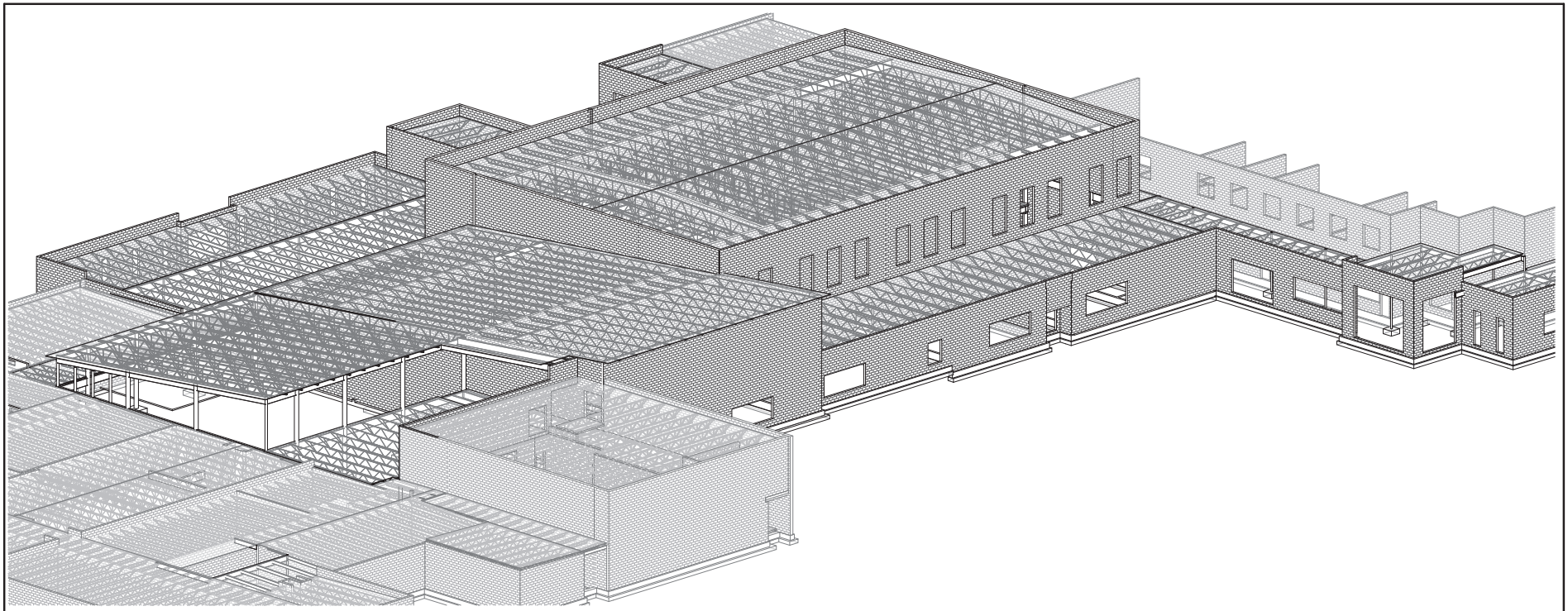
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

S1.4



A
S1.5
OVERALL 3D REAR VIEW

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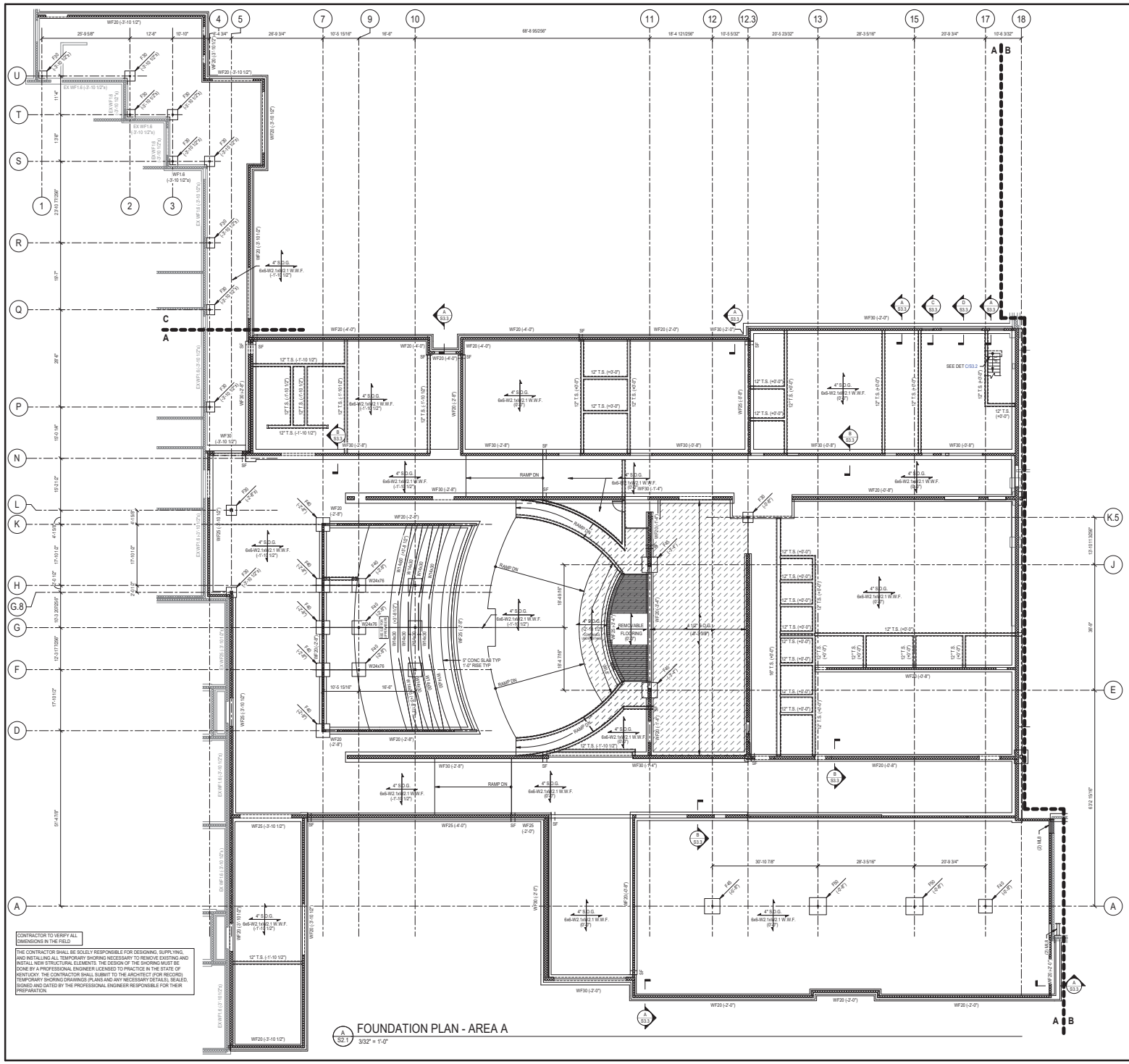


A S2.1 FOUNDATION PLAN - AREA A
3/32" = 1'-0"

CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DESIGNING, SUPPLYING, AND INSTALLING ALL TEMPORARY SHORING NECESSARY TO REMOVE EXISTING AND INSTALL NEW STRUCTURAL ELEMENTS. THE DESIGN OF THE SHORING MUST BE DONE BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF KENTUCKY. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT (FOR RECORD) TEMPORARY SHORING DRAWINGS (PLANS AND ANY NECESSARY DETAILS), SEALED, SIGNED AND DATED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

FOUNDATION PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF THE FOUNDATION AND ARE REFERENCED FROM OMES FINISHED FIRST FLOOR REFERENCE ABSOLUTE ELEVATION 698'-0" = (0'-0"). BEHS FIRST FLOOR ELEVATION = 698'-1 1/2" = (-1'-10 1/2").
2. CENTER ALL WALL FOOTINGS ON WALL CENTERLINE U.N.O.
3. CENTER ALL SPREAD FOOTINGS ON COLUMN GRID INTERSECTION U.N.O.
4. SEE DWG S1.1 & S1.2 FOR GENERAL NOTES.
5. SEE DWG S1.3 FOR SPECIAL INSPECTION NOTES.
6. SEE DWGS S3.1 & S3.2 FOR TYPICAL FOUNDATION DETAILS.
7. SEE DWG S5.1 FOR COLUMN SCHEDULE.
8. SLAB ON GRADE SHALL BE PLACED ON VAPOR RETARDER (SEE SPECIFICATIONS) OVER 4" MINIMUM COMPACTED CRUSHED STONE OR DENSE GRADED AGGREGATE.
9. REINFORCE SLABS ON GRADE AT RE-ENTRANT CORNERS PER DETAIL J/S3.1. REINFORCING BARS MAY NOT BE SHOWN GRAPHICALLY ON PLAN IN ALL LOCATIONS.
10. PROVIDE CONSTRUCTION JOINTS IN SLAB ON GRADE ALIGNING WITH BOTH FACES OF C.M.U. WALLS AT OPENINGS IN INTERIOR LOAD-BEARING WALLS.
11. ALL FOOTINGS MUST BE SUPPORTED ON UNDISTURBED SOIL CAPABLE OF SUPPORTING DESIGN LOADS WITHOUT APPRECIABLE SETTLEMENT. CONTRACTOR SHALL PROBE BEARING STRATA WITH DRIVEN RODS, REMOVE SHALLOW BEDROCK (AND OVERLYING SOIL) WITHIN TWO FOOTING WIDTH BELOW BOTTOM OF FOOTING, AND REPLACE WITH ENGINEERED SOIL BACKFILL.

FOUNDATION LEGEND

F40 = SPREAD FOOTING. SEE SCHEDULE.
WF20 = WALL FOOTING. SEE SCHEDULE.
T.S. = THICKENED SLAB BELOW C.M.U. PARTITION WALLS SEE DETAIL C/S3.2.
P1 = COLUMN PIER. SEE DETAIL F/S3.2.
SF = STEP FOOTING. SEE DETAIL C/S3.1.
(-0'-8") = TOP OF FOOTING ELEVATION.
2" = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
SJ = SAWN CONTRACTION JOINT. SEE DETAIL D/S3.1.
CJ = CONSTRUCTION JOINT. SEE DETAIL D/S3.1.
MW = MASONRY PARTITION BRACE. SEE DETAIL J/S4.1.
= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
= CONCRETE WALL.
= MASONRY NON-BEARING PARTITION WALL. SEE ARCH DWGS FOR WALL THICKNESS, TYPE AND LAYOUT.

FOUNDATION TAG NOTES

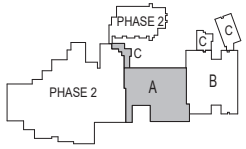
1. RE-ENTRANT CORNER BARS. SEE DET
2. DRILL & ADHESIVE DOWEL NEW FTG INTO EXISTING FTG W/ (2) #5 x 1'-8" LONG W/ 8" EMBED.
3. DEMOLISH EX FTG AS REQUIRED TO INSTALL NEW WALL FTG.
4. DEMOLISH EX C.M.U. WALL AND CONC STEM/WALL.
5. DRILL & ADHESIVE DOWEL ALL PERPENDICULAR FTG REINFORCING INTO EXISTING FTG W/ 8" EMBED.
6. DRILL & ADHESIVE DOWEL NEW WALL VERT BARS INTO EX FTG W/ 8" EMBED..
7. SAWCUT AND REMVOE EX SLAB ON GRADE AT BATHROOM EXTENTS. REPLACE W/ NEW CONCRETE SLAB ON 4" MIN COMPACTED CRUSHED STONE OR D.G.A. COORDINATE EXTENTS W/ ARCH DWGS. SEE DET FOR CONNECTION TO EX SLAB AT PERIMETER.

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING CONT BOTTOM	TRANSVERSE REINFORCING BOTTOM
WF20	2'-0"	1'-0"	(2) #5	#4@90" O.C.
WF23	2'-4"	1'-0"	(3) #5	#4@90" O.C.
WF25	2'-6"	1'-0"	(3) #5	#5@12" O.C.
WF30	3'-0"	1'-0"	(3) #5	#5@12" O.C.

SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING E.W. BOTTOM
F30	3'-0"	3'-0"	1'-4"	(4) #5
F40	4'-0"	4'-0"	1'-4"	(5) #5
F45	4'-6"	4'-6"	1'-4"	(6) #5
F50	5'-0"	5'-0"	1'-4"	(7) #5



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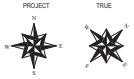

REFERENCE ELEVATION (0'-0") = 777'7'-7" SEA LEVEL

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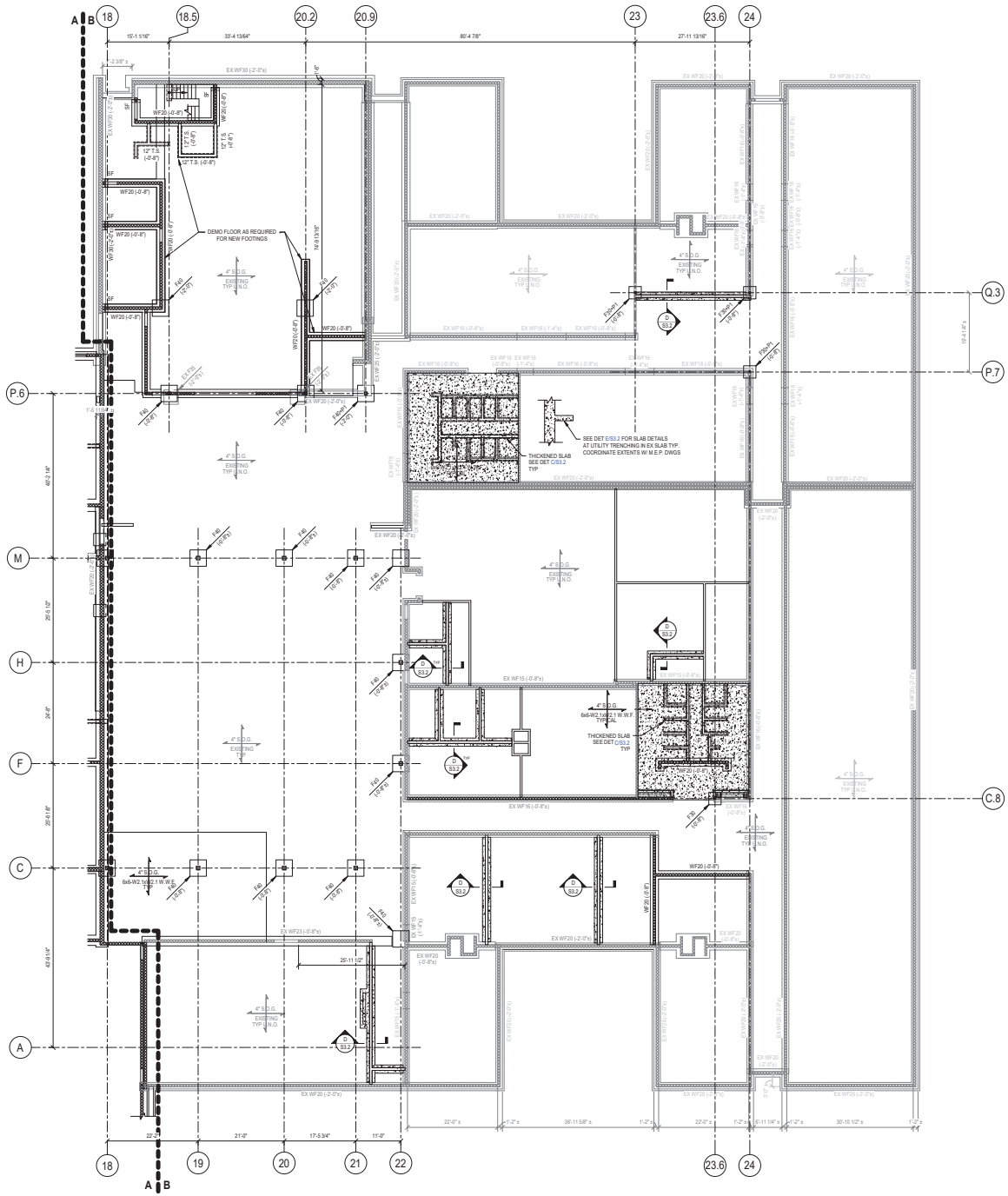
FOUNDATION PLAN - AREA A
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

S2.1



S2.2 FOUNDATION PLAN - AREA B
3/32" = 1'-0"

FOUNDATION PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF THE FOUNDATION AND ARE REFERENCED FROM OWES FINISHED FIRST FLOOR REFERENCE ABSOLUTE ELEVATION 698'-0" = (0'-0"). BEHS FIRST FLOOR ELEVATION = 698'-1 1/2" = (-1'-10 1/2").
2. CENTER ALL WALL FOOTINGS ON WALL CENTERLINE U.N.O.
3. CENTER ALL SPREAD FOOTINGS ON COLUMN GRID INTERSECTION U.N.O.
4. SEE DWG S1.1 & S1.2 FOR GENERAL NOTES.
5. SEE DWG S1.3 FOR SPECIAL INSPECTION NOTES.
6. SEE DWGS S3.1 & S3.2 FOR TYPICAL FOUNDATION DETAILS.
7. SEE DWG S5.1 FOR COLUMN SCHEDULE.
8. SLAB ON GRADE SHALL BE PLACED ON VAPOR RETARDER (SEE SPECIFICATIONS) OVER 4" MINIMUM COMPACTED CRUSHED STONE OR DENSE GRADED AGGREGATE.
9. REINFORCE SLABS ON GRADE AT RE-ENTRANT CORNERS PER DETAIL J/S3.1 REINFORCING BARS MAY NOT BE SHOWN GRAPHICALLY ON PLAN IN ALL LOCATIONS.
10. PROVIDE CONSTRUCTION JOINTS IN SLAB ON GRADE ALIGNING WITH BOTH FACES OF C.M.U. WALLS AT OPENINGS IN INTERIOR LOAD-BEARING WALLS.
11. ALL FOOTINGS MUST BE SUPPORTED ON UNDISTURBED SOIL CAPABLE OF SUPPORTING DESIGN LOADS WITHOUT APPRECIABLE SETTLEMENT. CONTRACTOR SHALL PROBE BEARING STRATA WITH DRIVEN RODS, REMOVE SHALLOW BEDROCK (AND OVERLYING SOIL) WITHIN TWO FOOTING WIDTH BELOW BOTTOM OF FOOTING, AND REPLACE WITH ENGINEERED SOIL BACKFILL.

FOUNDATION LEGEND

F40 = SPREAD FOOTING. SEE SCHEDULE.
WF20 = WALL FOOTING. SEE SCHEDULE.
T.S. = THICKENED SLAB BELOW C.M.U. PARTITION WALLS SEE DETAIL C/S3.2.
P1 = COLUMN PIER. SEE DETAIL F/S3.2.
SF = STEP FOOTING. SEE DETAIL C/S3.1.
(-0'-8") = TOP OF FOOTING ELEVATION.
2' = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
SJ = SAWN CONTRACTION JOINT. SEE DETAIL D/S3.1.
CJ = CONSTRUCTION JOINT. SEE DETAIL D/S3.1.
= MASONRY PARTITION BRACE. SEE DETAIL J/S4.1 .
= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.
= CONCRETE WALL.
= MASONRY NON-BEARING PARTITION WALL. SEE ARCH DWGS FOR WALL THICKNESS, TYPE AND LAYOUT.

FOUNDATION TAG NOTES

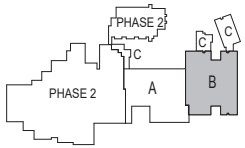
1. RE-ENTRANT CORNER BARS. SEE DET .
2. DRILL & ADHESIVE DOWEL NEW FTG INTO EXISTING FTG W/ (2) #5 x 1'-6" LONG W/ 8" EMBED.
3. DEMOLISH EX FTG AS REQUIRED TO INSTALL NEW WALL FTG.
4. DEMOLISH EX C.M.U. WALL AND CONC STEMWALL.
5. DRILL & ADHESIVE DOWEL ALL PERPENDICULAR FTG REINFORCING INTO EXISTING FTG W/ 8" EMBED.
6. DRILL & ADHESIVE DOWEL NEW WALL VERT BARS INTO EX FTG W/ 8" EMBED..
7. SAWCUT AND REMVOE EX SLAB ON GRADE AT BATHROOM EXTENTS. REPLACE W/ NEW CONCRETE SLAB ON 4" MIN COMPACTED CRUSHED STONE OR D.G.A. COORDINATE EXTENTS W/ ARCH DWGS. SEE DET FOR CONNECTION TO EX SLAB AT PERIMETER.

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING CONT BOTTOM	TRANSVERSE REINFORCING BOTTOM
WF20	2'-0"	1'-0"	(2) #5	#4@9" O.C.
WF23	2'-4"	1'-0"	(3) #5	#4@99" O.C.
WF25	2'-8"	1'-0"	(2) #5	#5@12" O.C.
WF30	3'-0"	1'-0"	(3) #5	#5@12" O.C.

SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING E.W. BOTTOM
F30	3'-0"	3'-0"	1'-4"	(4) #5
F40	4'-0"	4'-0"	1'-4"	(5) #5
F45	4'-6"	4'-6"	1'-4"	(6) #5
F50	5'-0"	5'-0"	1'-4"	(7) #5



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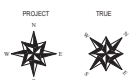

REFERENCE ELEVATION (0'-0") = ????'-7" SEA LEVEL

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FOUNDATION PLAN - AREA B
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

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REVISIONS :

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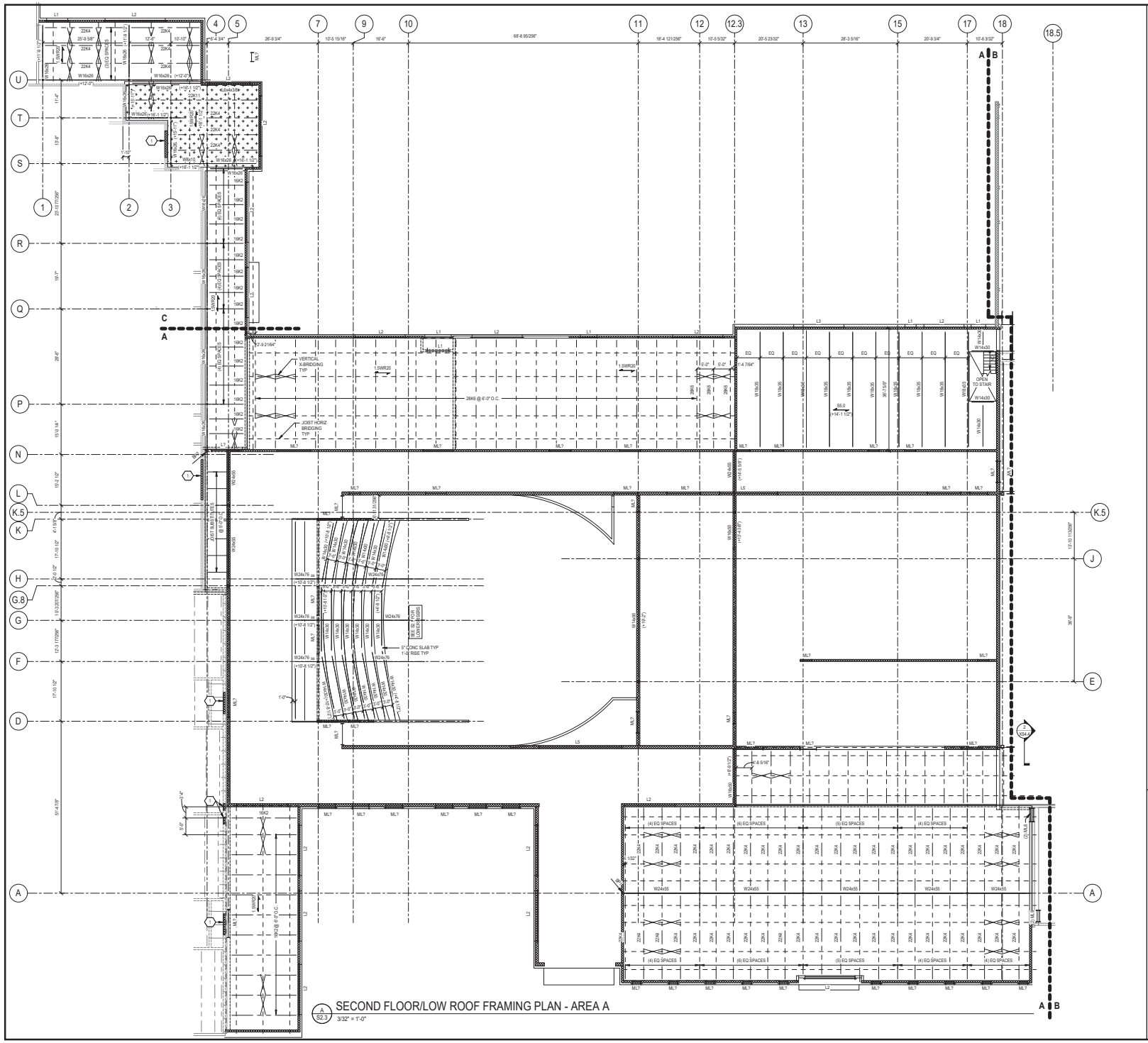
S2.2



A S2.3 SECOND FLOOR/LOW ROOF FRAMING PLAN - AREA A
3/32" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED OMES FIRST FLOOR ABSOLUTE REFERENCE ELEVATION 689'-0" = (0'-0").
2. FINISHED SECOND FLOOR MECHANICAL PLATFORM ELEVATION (+12'-0"), U.N.O.
3. TOP OF SECOND FLOOR STEEL BEAMS = (+11'-7") U.N.O.
4. SEE DWG S1.1 & S1.2 FOR GENERAL NOTES.
5. SEE DWG S1.3 FOR SPECIAL INSPECTION NOTES.
6. SEE DWGS S4.1, S4.2 & S4.3 FOR TYPICAL FRAMING DETAILS.
7. SEE DWG S5.1 FOR COLUMN SCHEDULE.
8. SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
9. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE DETAIL G/S4.2 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

FRAMING LEGEND

1.5WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.

SS.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).

SD.0 = TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS. DROP STEEL JOIST SUPPORT BEAMS/ BEARING PLATES BY DEPTH OF JOIST SEAT (SIGNIFIED AS SD - SEAT DEPTH), WHERE NO SEAT DEPTH IS SPECIFIED, DEPTH SHALL BE SJI STANDARD FOR TYPE OF JOIST. SEAT DEPTH GIVEN AT CENTERLINE OF GIRDER OR END OF BEARING PLATE NEAREST CENTER OF BEARING WALL.

W16x26 = STEEL BEAM SIZE.
[10] = NUMBER OF SHEAR STUDS, ZERO IF BLANK.
(15K) = SERVICE LOAD REACTION (KIPS) EACH END.

C=3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).

(+13'-7") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").

MC = MOMENT CONNECTION. SEE DETAIL X/XXXX.

= COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL X/XXX. SEE SCHEDULE ON X/XXX.

= DIAGONAL BRACING. SEE DWG S5.2 FOR BRACE ELEVATION.

= COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.

= STEEL HANGER BELOW. SEE X/XXX FOR SCHEDULE.

= STEEL POST ABOVE. SEE X/XXX FOR SCHEDULE.

= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.

= CONCRETE WALL.

= MASONRY NON-BEARING PARTITION WALL. SEE ARCH DWGS FOR WALL THICKNESS, TYPE AND LAYOUT. COMPOSITE PRECAST CONCRETE FLOOR STRUCTURE TO BE DESIGNED TO SUPPORT PARTITION WEIGHT WITH A MAXIMUM DEFLECTION OF L/600 DUE TO LIVE LOAD. PARTITION WEIGHT AND 10 PSF COLLATERAL DEAD LOAD. WEIGHT OF PARTITION IS AS FOLLOWS:
4" C.M.U. PARTITION 320 PLF
8" C.M.U. PARTITION 340 PLF
8" C.M.U. PARTITION 440 PLF

= WALL BELOW DECK.

BP1 = STEEL BEARING PLATE. SEE DETAIL E/S4.1.

MW = MASONRY PARTITION BRACE. SEE DETAIL J/S4.1.

BC1 = BEAM COPE. SEE DETAIL X/XXX.

L1 = STEEL LINTEL. SEE DET F/S4.1 FOR SCHEDULE.

ML8 = MASONRY LINTEL. SEE DET B/S4.1 FOR SCHEDULE.

FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL J/S4.2.

CANT = CANTILEVER BEAM END. SEE DET F/S4.3.

= EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.

12 / 1/4 = ROOF SLOPE.

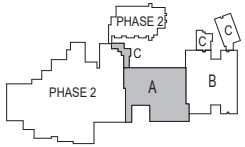
W10 = W10x12 (12 k).

RD = ROOF DRAIN. SEE DET F/S4.2 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.

= MECHANICAL AREA. SEE DWG S1.1 FOR LOADING INFORMATION.

SECOND FLOOR TAG NOTES

1. DEMO EXISTING AND INFILL & REPLACE AS REQUIRED. SEE ARCH DWGS.
2. TAG NOTE 2.



KEYPLAN

REFERENCE ELEVATION (0'-0") = ????'-?" SEA LEVEL

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(502) 452-9262

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SECOND FLOOR/LOW ROOF FRAMING PLAN - AREA A

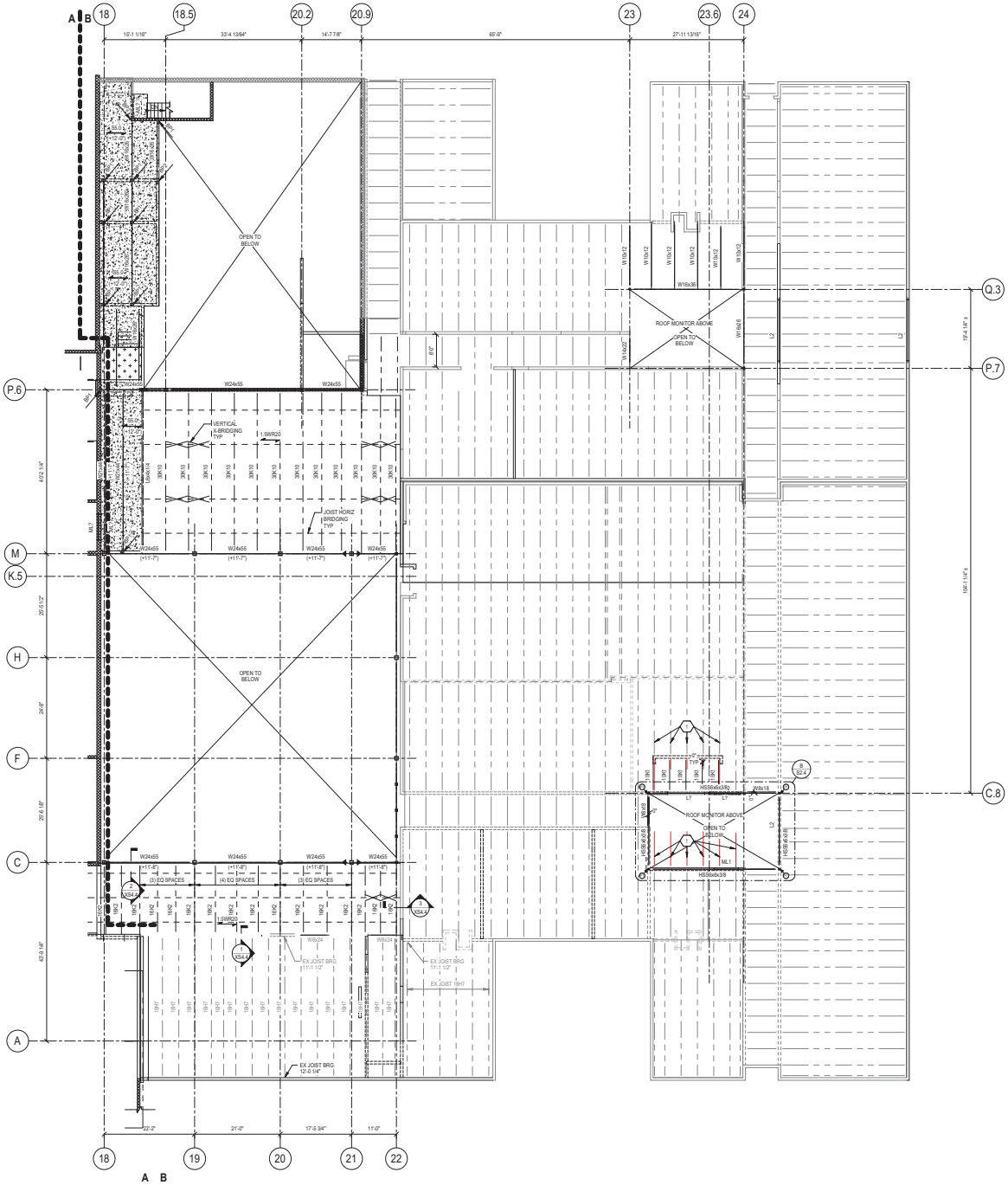
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

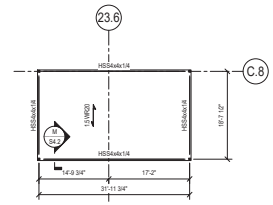
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

S2.3



SECOND FLOOR/LOW ROOF FRAMING PLAN - AREA B
3/32" = 1'-0"



ROOF MONITOR ROOF DETAIL
3/32" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED OMES FIRST FLOOR ABSOLUTE REFERENCE ELEVATION 689'-0" = (0'-0").
2. FINISHED SECOND FLOOR MECHANICAL PLATFORM ELEVATION (+12'-0"), U.N.O.
3. TOP OF SECOND FLOOR STEEL BEAMS = (+11'-7") U.N.O.
4. SEE DWG S1.1 & S1.2 FOR GENERAL NOTES.
5. SEE DWG S1.3 FOR SPECIAL INSPECTION NOTES.
6. SEE DWGS S4.1, S4.2 & S4.3 FOR TYPICAL FRAMING DETAILS.
7. SEE DWG S5.1 FOR COLUMN SCHEDULE.
8. SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
9. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE DETAIL G/S4.2 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

FRAMING LEGEND

1.5WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.

5S.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).

5S.0 = TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS. DROP STEEL JOIST SUPPORT BEAMS/ BEARING PLATES BY DEPTH OF JOIST SEAT (SIGNIFIED AS SD - SEAT DEPTH), WHERE NO SEAT DEPTH IS SPECIFIED, DEPTH SHALL BE SJI STANDARD FOR TYPE OF JOIST. SEAT DEPTH GIVEN AT CENTERLINE OF GIRDER OR END OF BEARING PLATE NEAREST CENTER OF BEARING WALL.

W18x26 [10] (15k) = STEEL BEAM SIZE. NUMBER OF SHEAR STUDS, ZERO IF BLANK. SERVICE LOAD REACTION (KIPS) EACH END.

C=3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).

(+13'-7") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").

MC1 = MOMENT CONNECTION. SEE DETAIL X/XXXX.

= COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL X/XXX. SEE SCHEDULE ON XXXX.

= DIAGONAL BRACING. SEE DWG S5.2 FOR BRACE ELEVATION.

= COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.

= STEEL HANGER BELOW. SEE XXXX FOR SCHEDULE.

= STEEL POST ABOVE. SEE XXXX FOR SCHEDULE.

= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.

= CONCRETE WALL.

= MASONRY NON-BEARING PARTITION WALL. SEE ARCH DWGS FOR WALL THICKNESS, TYPE AND LAYOUT. COMPOSITE PRECAST CONCRETE FLOOR STRUCTURE TO BE DESIGNED TO SUPPORT PARTITION WEIGHT WITH A MAXIMUM DEFLECTION OF L/600 DUE TO LIVE LOAD. PARTITION WEIGHT AND 10 PSF COLLATERAL DEAD LOAD. WEIGHT OF PARTITION IS AS FOLLOWS:
4" C.M.U. PARTITION 320 PLF
8" C.M.U. PARTITION 340 PLF
8" C.M.U. PARTITION 440 PLF

= WALL BELOW DECK.

BP1 = STEEL BEARING PLATE. SEE DETAIL E/S4.1.

MW = MASONRY PARTITION BRACE. SEE DETAIL J/S4.1.

BC1 = BEAM COPE. SEE DETAIL X/XXX.

L1 = STEEL LINTEL. SEE DET F/S4.1 FOR SCHEDULE.

ML8 = MASONRY LINTEL. SEE DET B/S4.1 FOR SCHEDULE.

FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL J/S4.2.

CANT = CANTILEVER BEAM END. SEE DET F/S4.3.

= EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.

12 / 1/4 = ROOF SLOPE.

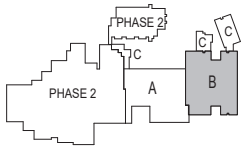
W10 = W10x12 (12 k).

RD = ROOF DRAIN. SEE DET F/S4.2 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.

= MECHANICAL AREA. SEE DWG S1.1 FOR LOADING INFORMATION.

ROOF FRAMING TAG NOTES

1. MODIFY JOISTS TO NEW WALL LOCATION. INFILL NEW PER PLAN
2. TAG NOTE 2.



KEYPLAN

REFERENCE ELEVATION (0'-0") = ????'-?" SEA LEVEL

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SECOND FLOOR/LOW ROOF FRAMING - AREA B

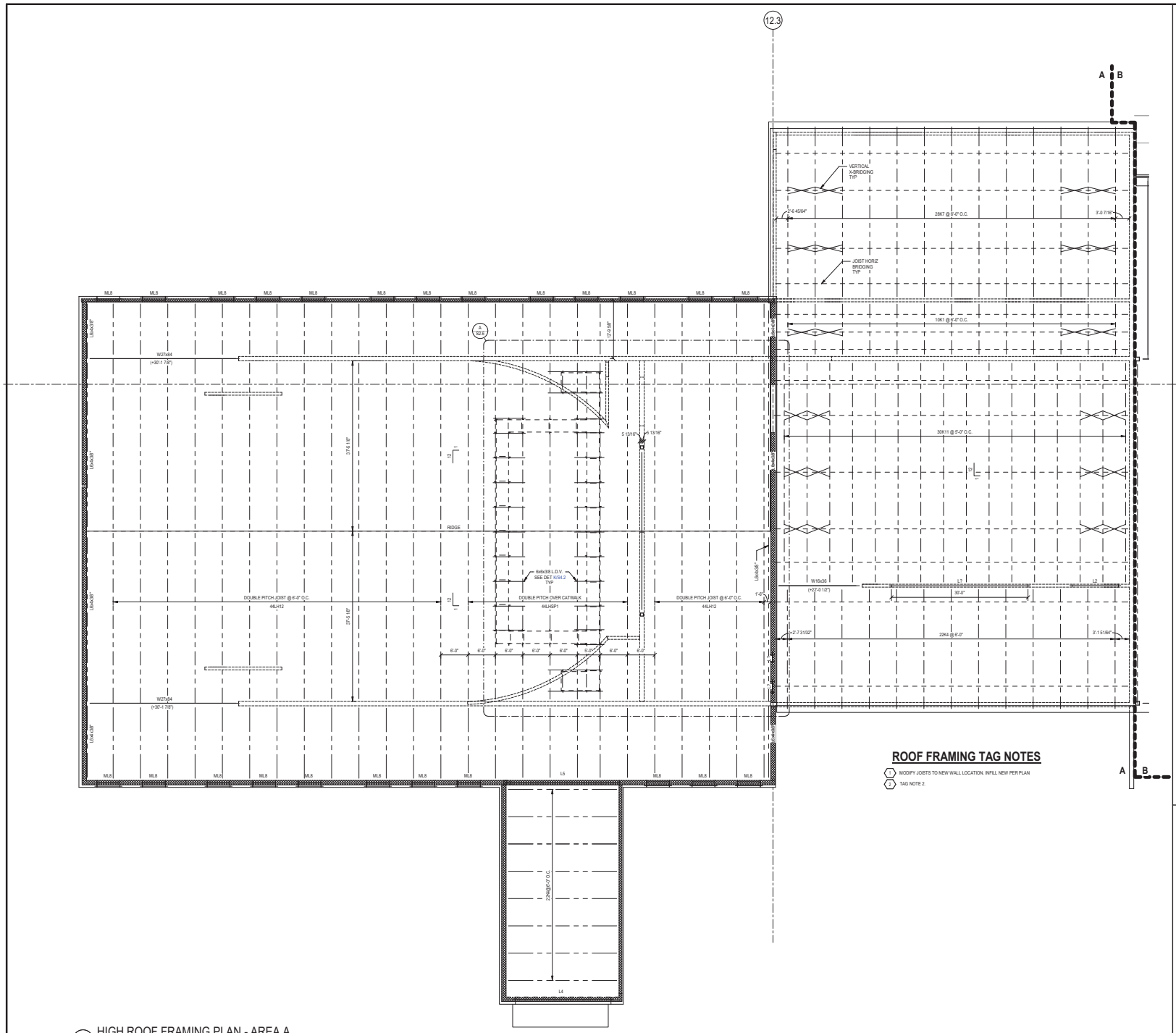
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

S2.4



HIGH ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED CMES FIRST FLOOR ABSOLUTE REFERENCE ELEVATION 689'-0" = (0'-0").
2. FINISHED SECOND FLOOR MECHANICAL PLATFORM ELEVATION (+12'-0"), U.N.O.
3. TOP OF SECOND FLOOR STEEL BEAMS = (+11'-7") U.N.O.
4. SEE DWG S1.1 & S1.2 FOR GENERAL NOTES.
5. SEE DWG S1.3 FOR SPECIAL INSPECTION NOTES.
6. SEE DWGS S4.1, S4.2 & S4.3 FOR TYPICAL FRAMING DETAILS.
7. SEE DWG S5.1 FOR COLUMN SCHEDULE.
8. SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
9. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE DETAIL G/S4.2 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

FRAMING LEGEND

1.5WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.

S5.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).

S-5.0 / S5.0 = TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS. DROP STEEL JOIST SUPPORT BEAMS/ BEARING PLATES BY DEPTH OF JOIST SEAT (SIGNIFIED AS SD.- SEAT DEPTH). WHERE NO SEAT DEPTH IS SPECIFIED, DEPTH SHALL BE 5.0 STANDARD FOR TYPE OF JOIST. SEAT DEPTH GIVEN AT CENTERLINE OF GIRDER OR END OF BEARING PLATE NEAREST CENTER OF BEARING WALL.

W16x26 [10] (15K) = STEEL BEAM SIZE. NUMBER OF SHEAR STUDS, ZERO IF BLANK. SERVICE LOAD REACTION (KIPS) EACH END.

C=3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).

(+13'-7") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").

M1 = MOMENT CONNECTION. SEE DETAIL X/XXX.

= COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL X/XXX. SEE SCHEDULE ON X/XXX.

= DIAGONAL BRACING. SEE DWG S5.2 FOR BRACE ELEVATION.

= COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.

= STEEL HANGER BELOW. SEE X/XXX FOR SCHEDULE.

= STEEL POST ABOVE. SEE X/XXX FOR SCHEDULE.

= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN WALL.

= CONCRETE WALL.

= MASONRY NON-BEARING PARTITION WALL. SEE ARCH DWGS FOR WALL THICKNESS, TYPE AND LAYOUT. COMPOSITE PRECAST CONCRETE FLOOR STRUCTURE TO BE DESIGNED TO SUPPORT PARTITION WEIGHT WITH A MAXIMUM DEFLECTION OF L/600 DUE TO LIVE LOAD. PARTITION WEIGHT AND 10 PSF COLLATERAL DEAD LOAD. WEIGHT OF PARTITION IS AS FOLLOWS:
4" C.M.U. PARTITION 320 PLF
6" C.M.U. PARTITION 340 PLF
8" C.M.U. PARTITION 440 PLF

= WALL BELOW DECK.

BP1 = STEEL BEARING PLATE. SEE DETAIL E/S4.1.

SX = MASONRY PARTITION BRACE. SEE DETAIL J/S4.1.

BC1 = BEAM COPE. SEE DETAIL X/XXX.

L1 = STEEL LINTEL. SEE DET F/S4.1 FOR SCHEDULE.

ML8 = MASONRY LINTEL. SEE DET B/S4.1 FOR SCHEDULE.

FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL J/S4.2.

CANT = CANTILEVER BEAM END. SEE DET F/S4.3.

2" = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.

12 / 1/4 = ROOF SLOPE.

W10 = W10x12 (12 k).

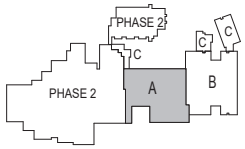
RD = ROOF DRAIN. SEE DET F/S4.2 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.

= MECHANICAL AREA. SEE DWG S1.1 FOR LOADING INFORMATION.

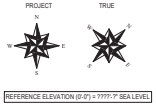
ROOF FRAMING TAG NOTES

MODIFY JOISTS TO NEW WALL LOCATION. INFILL NEW PER PLAN

TAG NOTE 2.



KEYPLAN



REFERENCE ELEVATION (0'-0") = ????'-?" SEA LEVEL

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HIGH ROOF FRAMING PLAN - AREA A

BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

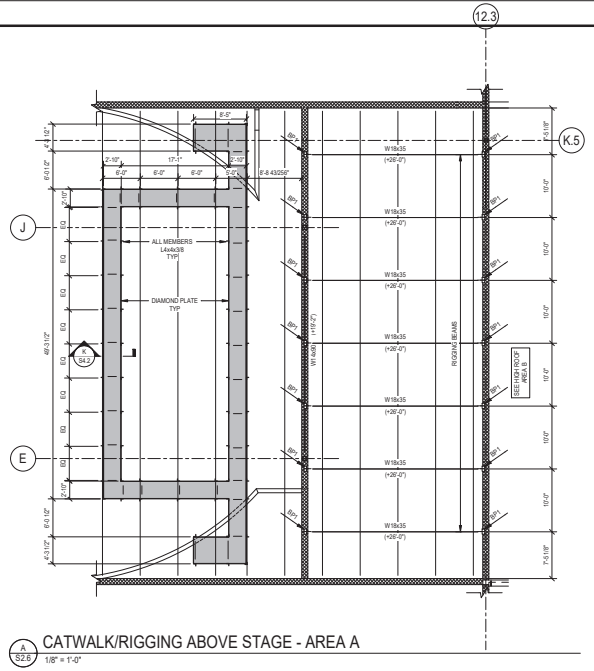
100% DESIGN DEVELOPMENT

BG# 23-050

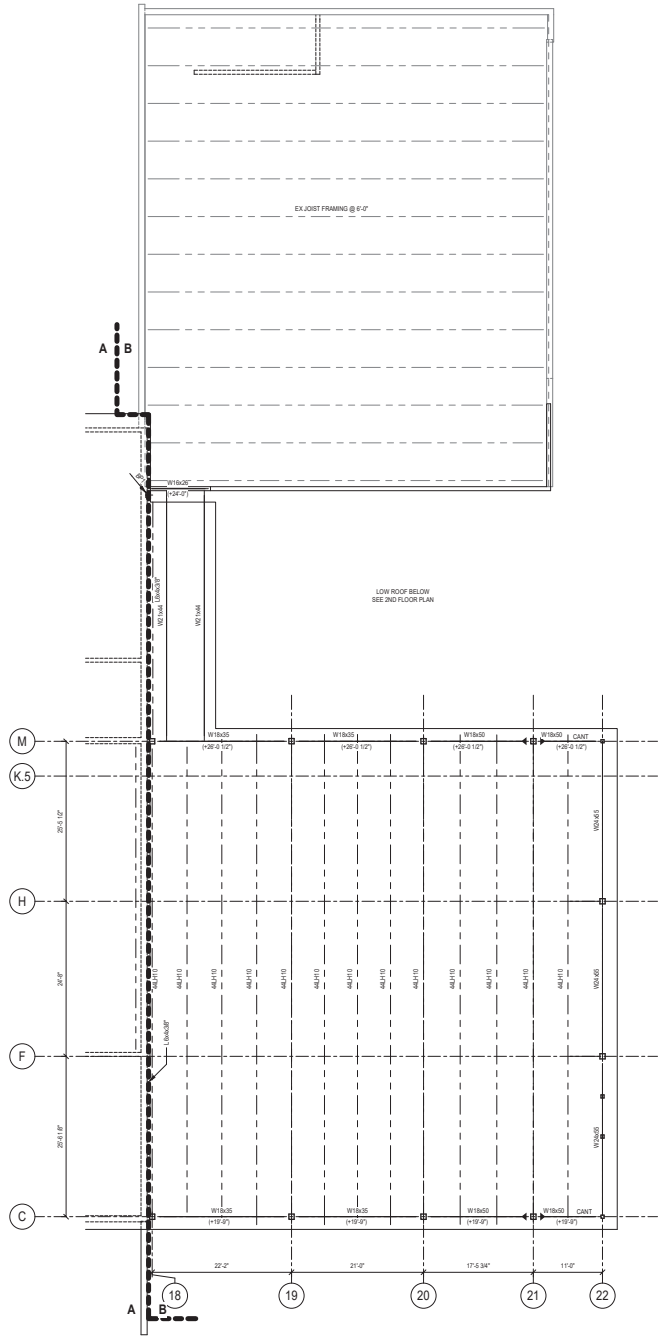
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

S2.5



A S2.6 CATWALK/RIGGING ABOVE STAGE - AREA A
1/8" = 1'-0"



C S2.6 HIGH ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

FRAMING PLAN NOTES

1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED OMES FIRST FLOOR ABSOLUTE REFERENCE ELEVATION 689'-0" = (0'-0").
2. FINISHED SECOND FLOOR MECHANICAL PLATFORM ELEVATION (+12'-0"), U.N.O.
3. TOP OF SECOND FLOOR STEEL BEAMS = (+11'-7") U.N.O.
4. SEE DWG S1.1 & S1.2 FOR GENERAL NOTES.
5. SEE DWG S1.3 FOR SPECIAL INSPECTION NOTES.
6. SEE DWGS S4.1, S4.2 & S4.3 FOR TYPICAL FRAMING DETAILS.
7. SEE DWG S5.1 FOR COLUMN SCHEDULE.
8. SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
9. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE DETAIL G/S4.2 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

FRAMING LEGEND

1.5WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.

3S.0 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2.1xW2.1 W.W.F. ON 1 1/2" 20 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5" TOTAL THICKNESS).

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W18x26 [10] (15K) = STEEL BEAM SIZE. NUMBER OF SHEAR STUDS, ZERO IF BLANK. SERVICE LOAD REACTION (KIPS) EACH END.

C=3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).

(+13'-7") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").

MC = MOMENT CONNECTION. SEE DETAIL X/XXX.

= COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL X/XXX. SEE SCHEDULE ON X/XXX.

= DIAGONAL BRACING. SEE DWG S5.2 FOR BRACE ELEVATION.

= COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.

= STEEL HANGER BELOW. SEE X/XXX FOR SCHEDULE.

= STEEL POST ABOVE. SEE X/XXX FOR SCHEDULE.

= C.M.U. WALL REINFORCED W/ #5@48" O.C. VERT CENTERED IN CORE.

= CONCRETE WALL.

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4" C.M.U. PARTITION 320 PLF
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= WALL BELOW DECK.

BP1 = STEEL BEARING PLATE. SEE DETAIL E/S4.1 .

SX = MASONRY PARTITION BRACE. SEE DETAIL J/S4.1 .

BC1 = BEAM COPE. SEE DETAIL X/XXX.

L1 = STEEL LINTEL. SEE DET F/S4.1 FOR SCHEDULE.

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12 / 1/4 = ROOF SLOPE.

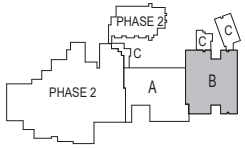
W10 = W10x12 (12 k).

RD = ROOF DRAIN. SEE DET F/S4.2 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.

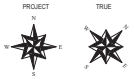
= MECHANICAL AREA. SEE DWG S1.1 FOR LOADING INFORMATION.

ROOF FRAMING TAG NOTES

1. MODIFY JOISTS TO NEW WALL LOCATION. INFILL NEW PER PLAN
2. TAG NOTE 2.



KEYPLAN



REFERENCE ELEVATION (0'-0") = ????'-7" SEA LEVEL

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HIGH ROOF FRAMING PLAN - AREA B

BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
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BG# 23-050

DATE : 07/24/2023
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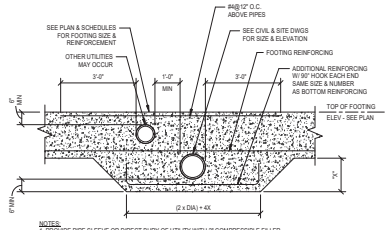
CHECKED BY : AJB
REVISIONS :

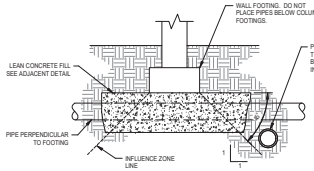
2022-35

S2.6

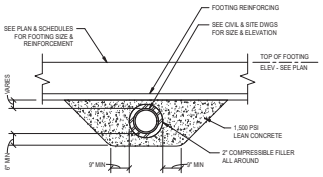


NOTES:
1. PROVIDE PIPE SLEEVE OR DIRECT BURY OF UTILITY WITH 2" COMPRESSIBLE FILLER (SUCH AS FIBERGLASS INSULATION) CONTINUOUSLY PLACED ALL AROUND.
2. DETAIL APPLIES AT TRENCH FOOTINGS ONLY. DO NOT USE THIS DETAIL FOR GRADE BEAMS.

A S3.1 TYPICAL FOOTING PENETRATION/SLEEVE DETAIL
NOT TO SCALE

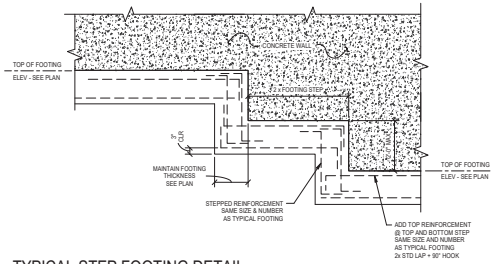


INFLUENCE ZONE

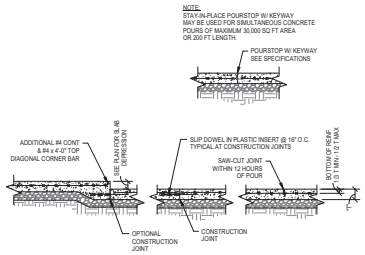


NOTES:
1. PROVIDE CONCRETE PROTECTION AROUND UTILITY LINE WHEN LINE IS WITHIN FOOTING INFLUENCE ZONE. SEE ADJACENT DETAIL FOR INFLUENCE ZONE DEFINITION.
2. DETAIL APPLIES WHEREVER TOP OF PIPE IS WITHIN 4 PIPE DIAMETERS TO BOTTOM OF FOOTING OR IF UTILITY IS INSTALLED AFTER FOOTING PLACEMENT (REGARDLESS OF DEPTH).
3. PROVIDE PIPE SLEEVE OR DIRECT BURY OF UTILITY WITH 2" COMPRESSIBLE FILLER (SUCH AS FIBERGLASS INSULATION) CONTINUOUSLY PLACED ALL AROUND.

B S3.1 TYPICAL UTILITY LINE BELOW FOOTING DETAIL
NOT TO SCALE



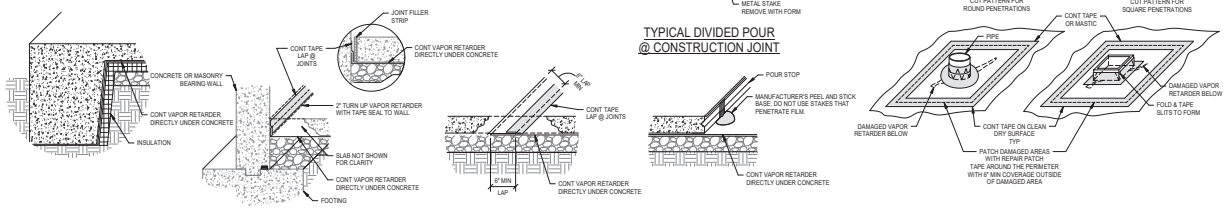
C S3.1 TYPICAL STEP FOOTING DETAIL
NOT TO SCALE



NOTES:
1. JOINTS SHALL BE INSTALLED IN SLABS ON GROUND AT A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB THICKNESS IN INCHES IN EACH DIRECTION BY EITHER OF THE ABOVE METHODS. MAXIMUM LENGTH OF ANY SLAB ON GROUND POUR TO BE 100'-0" BETWEEN CONSTRUCTION JOINTS. RATIO OF LENGTH TO WIDTH SHALL NOT EXCEED 2. THIS SPACING OF JOINTS SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE.
2. WELDED WIRE FABRIC SHALL BE DISCONTINUOUS THROUGH CONSTRUCTION JOINTS.

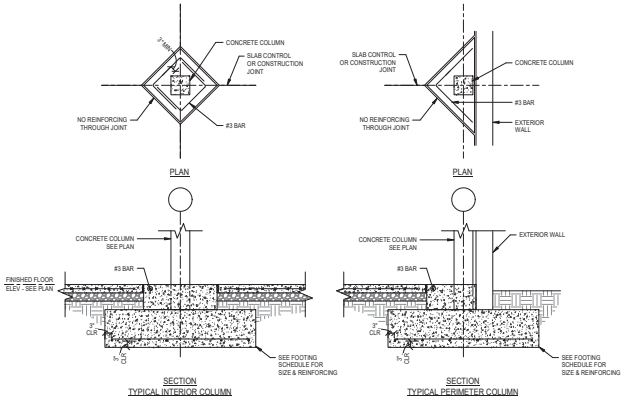
D S3.1 TYPICAL SLAB ON GROUND JOINT DETAIL
NOT TO SCALE

NOTES:
1. PROVIDE VAPOR RETARDER THAT IS RESISTANT TO DETERIORATION WHEN TESTED ACCORDING TO ASTM E 154. SEE SPECIFICATION SECTION 033000.
2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
3. SEAL ALL PENETRATIONS AND REPAIR ALL DAMAGED SURFACES WITH APPROVED JOINT TAPE OR MASTIC.
4. PREPARE ALL SURFACES FOR PROPER ADHESION WITH APPROVED TAPE. ALL SURFACES SHALL BE CLEAN, DRY, AND FROST FREE.
5. TURN UP BARRIER AT ALL EXTERIOR OR INTERIOR WALL SURFACES AND SEAL WITH APPROVED TAPE.

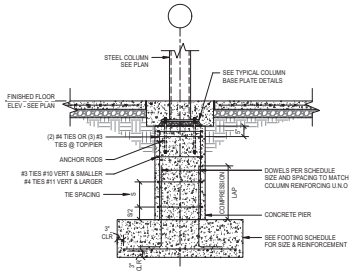


TYPICAL @ TURNED DOWN SLAB | TYPICAL @ WALL | TYPICAL @ SEAM | OPTIONAL SIMULTANEOUS POUR @ CONSTRUCTION JOINT | TYPICAL PIPE REPAIR | TYPICAL RECTANGULAR REPAIR

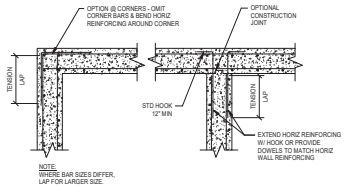
1 S3.1 TYPICAL VAPOR RETARDER DETAILS
NOT TO SCALE



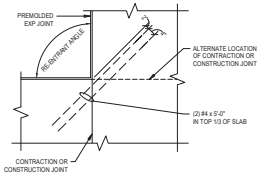
E S3.1 TYPICAL COLUMN AND FOOTING DETAIL
NOT TO SCALE



G S3.1 TYPICAL STEEL COLUMN, PIER, AND FOOTING DETAIL
NOT TO SCALE



H S3.1 TYPICAL CONCRETE WALL REINFORCING DETAIL
NOT TO SCALE



J S3.1 TYPICAL SLAB ON GRADE JOINT AT RE-ENTRANT CORNER
NOT TO SCALE

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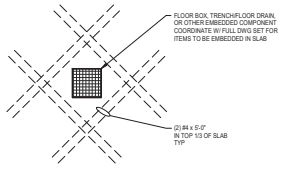
BG# 23-050
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

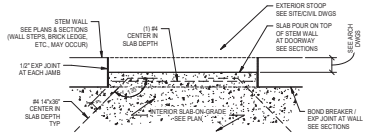
2022-35

S3.1

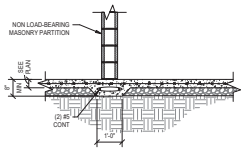


NOTES:
1. REINFORCEMENT APPLIES REGARDLESS OF SHAPE OF OPENING (ROUND OR RECTANGULAR MAY OCCUR).
2. DETAIL DOES NOT APPLY TO OPENINGS SMALLER THAN 3', U.N.O.

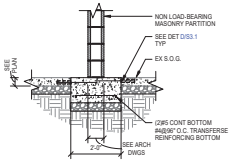
A S3.2 TYPICAL SLAB REINFORCEMENT AT FLOOR BOXES, TRENCH/FLOOR DRAINS, ETC DETAIL
NOT TO SCALE



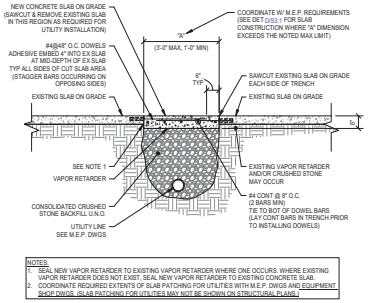
B S3.2 TYPICAL SLAB-ON-GRADE REINFORCING AT EXTERIOR DOOR DETAIL
NOT TO SCALE



C S3.2 TYPICAL THICKENED SLAB BELOW MASONRY PARTITIONS
NOT TO SCALE

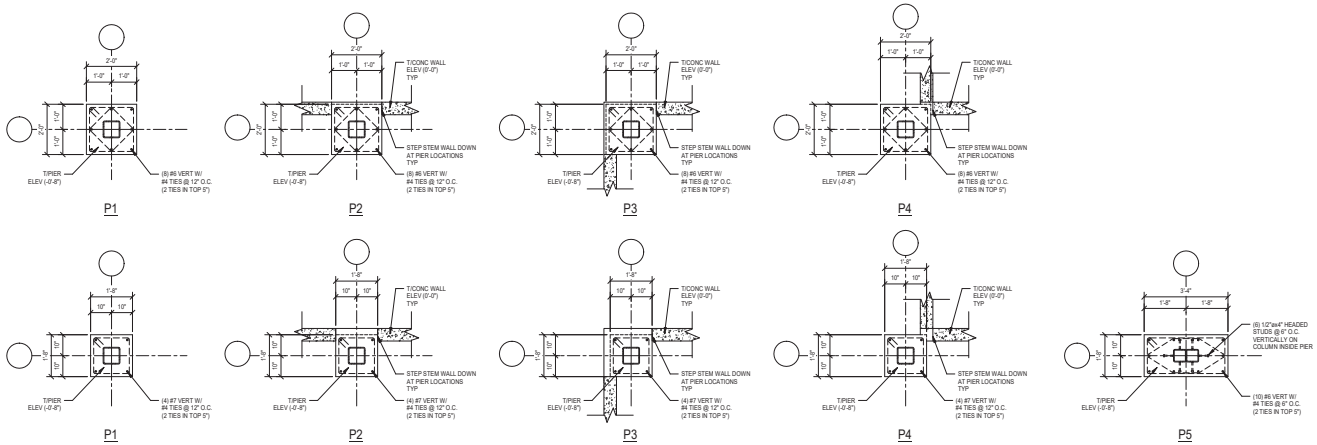


D S3.2 NEW THICKENED SLAB INTO EXISTING SLAB
NOT TO SCALE



NOTES:
1. SEAL NEW VAPOR RETARDER TO EXISTING VAPOR RETARDER WHERE ONE OCCURS. WHERE EXISTING VAPOR RETARDER DOES NOT EXIST, SEAL NEW VAPOR RETARDER TO EXISTING CONCRETE SLAB.
2. COORDINATE REQUIRED EXTENTS OF SLAB PATCHING FOR UTILITIES WITH M.E.P. DWGS AND EQUIPMENT SHOP DWGS. (SLAB PATCHING FOR UTILITIES MAY NOT BE SHOWN ON STRUCTURAL PLANS.)

E S3.2 TYPICAL SLAB PATCH AT UTILITY LINE BELOW EXISTING SLAB DETAIL
NOT TO SCALE



NOTES:
1. SEE PLAN FOR PIER ORIENTATION.
2. WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SECTIONS.
3. WHERE STEM WALL STEPS DOWN AT PIER, FILL PIER WITH CONCRETE TO TOP OF STEM WALL ELEVATION AFTER COLUMN HAS BEEN INSTALLED.

F S3.2 TYPICAL CONCRETE PIER DETAILS
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CHECKED BY : AJB
REVISIONS :

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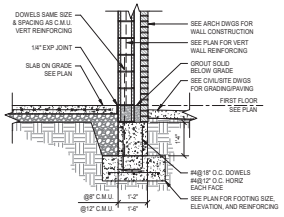
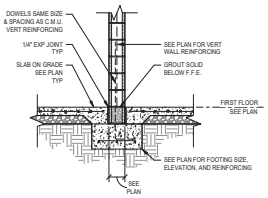
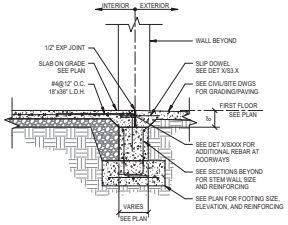
S3.2



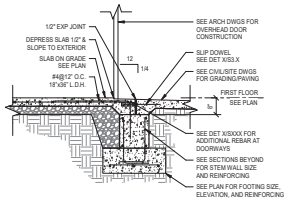
A S3.3 TYP EXTERIOR
NOT TO SCALE



B S3.3 TYPICAL INTERIOR
NOT TO SCALE



C S3.3 TYPICAL @ MAN DOOR
NOT TO SCALE



D S3.3 TYPICAL @ OVERHEAD DOOR
NOT TO SCALE

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FOUNDATION SECTIONS

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BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
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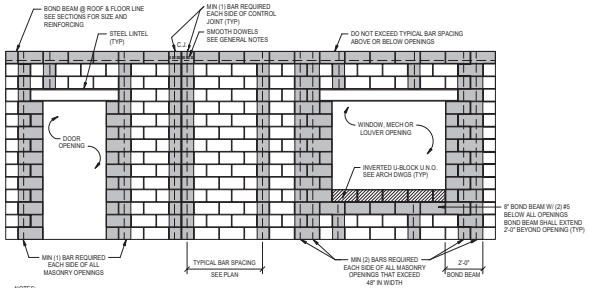
S3.3

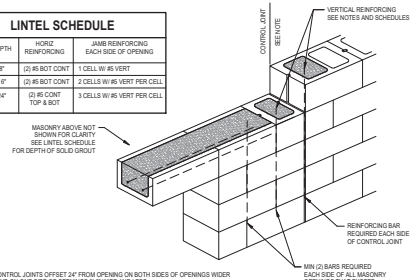


NOTES:
1. SEE MASONRY GENERAL NOTES FOR REINFORCING NOT SHOWN AND GROUTING PROCEDURES.
2. CONTROL JOINTS SHALL EXTEND FULL HEIGHT OF WALL AND ALIGN FROM FLOOR TO FLOOR.
3. CONTROL JOINTS SHALL BE LOCATED OUTSIDE MASONRY OPENING JAMB REINFORCING.

A S4.1 TYPICAL MASONRY WALL REINFORCING DETAIL
3/4" = 1'-0"

LINTEL SCHEDULE

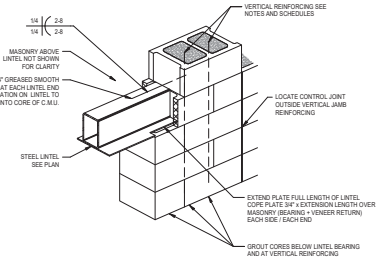
MARK	DEPTH	HORIZ REINFORCING	JAMB REINFORCING EACH SIDE OF OPENING
ML8	8"	(2) #5 BOT CONT	1 CELL W/ #5 VERT
ML16	16"	(2) #5 BOT CONT	2 CELLS W/ #5 VERT PER CELL
ML24	24"	(2) #5 CONT TOP & BOT	3 CELLS W/ #5 VERT PER CELL



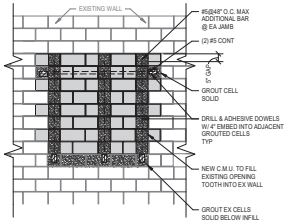
NOTES:
1. PROVIDE CONTROL JOINTS OFFSET 24" FROM OPENING ON BOTH SIDES OF OPENINGS WIDER THAN 6'-0" AND ON ONE SIDE OF OPENINGS 6'-0" WIDE AND LESS.
2. REINFORCING SHALL HAVE 1/2" MINIMUM GROUT COVER TO SURFACE OF BOND BEAM.
3. REINFORCING SHALL BE LOCATED 3" MAXIMUM FROM BOTTOM OF LINTEL BLOCK.
4. WHERE JAMB IS LESS THAN 2'-0" WIDE, HOOK HORIZONTAL LINTEL BARS AT ENDS.

B S4.1 TYPICAL MASONRY LINTEL BEARING DETAIL
3/4" = 1'-0"

NOTE:
FULLY GROUT CORES BELOW LINTEL BEARING FLUSH TO TOP OF MASONRY UNIT. FILL MASONRY GROUT SUBSIDENCE IN CORE WITH NON-SHRINK GROUT PRIOR TO PLACING LINTEL.

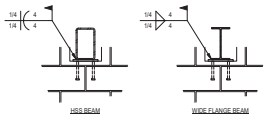


C S4.1 TYPICAL STEEL LINTEL BEARING DETAIL
3/4" = 1'-0"



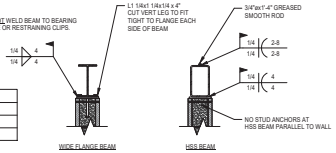
D S4.1 TYPICAL C.M.U. INFILL DETAIL
3/4" = 1'-0"

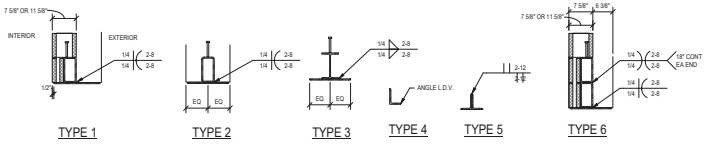
NOTE:
IF HSS BEAM HAS CONT PLATE ON BOTTOM BEARING PLATE IS NOT REQUIRED.



MARK	SIZE
BP1	--
BP2	--
BP3	--

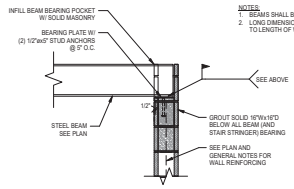
NOTE:
DO NOT WELD BEAM TO BEARING PLATE OR RESTRAINING CLIPS.



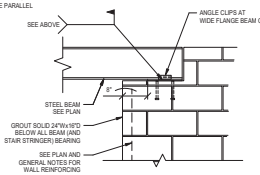


TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6

NOTES:
1. BEAMS SHALL BEAR FULL LENGTH OF BEARING PLATES.
2. LONG DIMENSION OF PLATES SHALL BE PARALLEL TO LENGTH OF WALL U.N.O.



DETAIL AT BEAM PERPENDICULAR TO WALL



DETAIL AT BEAM PARALLEL TO WALL

E S4.1 TYPICAL BEAM BEARING ON MASONRY DETAIL
3/4" = 1'-0"

NOTES:
1. LINTELS SHALL BEAR DIRECTLY ON SOLID MASONRY (C.M.U. WALL ONLY, EXCLUDING VENEER), WITHOUT BEARING PL, U.N.O. BEAR LINTELS 8" ON PARALLEL WALLS AND 5" ON PERPENDICULAR WALLS, U.N.O.
2. WHERE COLUMN FACE OCCURS IN PLANE OF WALL WITHIN 16" OF OPENING, CONNECT LINTEL DIRECTLY TO COLUMN PER DETAIL XS4XX.
3. EXTEND PLATES FULL LENGTH OF LINTELS. COPE PLATE 3/4"x EXTENSION OVER MASONRY (BEARING LENGTH + VENEER RETURN IF APPLICABLE) FOR MORTAR IN BED JOINT EXCEPT OVER BEARING ON WALL PERPENDICULAR TO LINTEL.
4. PROVIDE 1/2"øx5" STUD ANCHORS @ 48" O.C. TO TOP FLANGE OF ALL LINTELS IN EXTERIOR WALLS REGARDLESS OF LENGTH AND LINTELS IN INTERIOR WALLS WHERE OPENING IS WIDER THAN 8'-0".
5. PROVIDE 3/4"øx1'-4" GREASED ROD WELDED AT EACH END OF LINTEL.
6. GALVANIZE ALL LINTEL PLATES LOCATED IN EXTERIOR WALLS.
7. FIELD VERIFY PLATE WIDTHS FOR EXISTING WALLS.
   WIDTH = WALL WIDTH - 1".

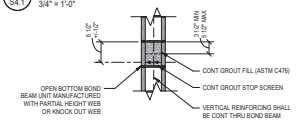
LINTEL SCHEDULE

MARK	TYPE	SIZE	JAMB REINFORCING EACH SIDE OF OPENING	REMARKS
L1	1	HSS8x4x1/4 + GALV PL 3/8x13 1/4	(2) #5	
L2	1	HSS16x4x5/8 + GALV PL 3/8x13 1/4	(3) #5	
L3	6	(2) HSS16x4x5/8 + GALV PL 3/8x13 1/4	(4) #5	
L4	2	HSS16x8x5/8 + GALV PL 3/8x18	(3) #5	
L5	6	(2) HSS16x8x5/8 + GALV PL 3/8x10 5/8	(3) #5	
L6	1	HSS16x4x3/8 OR (2) HSS8x8x3/8 + GALV PL 3/8x14 5/8	(3) #5	
L7	3	W8x21 + PL 5/16x10 5/8	(1) #5	
L8	4	GALV L5x3 1/2x5/16	---	
L9	5	GALV (2) L5x3 1/2x5/16	---	

F S4.1 TYPICAL LINTEL SCHEDULE
3/4" = 1'-0"

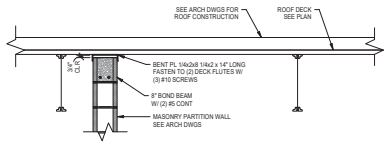
NOTES:
1. MORTAR WEBS OF BLOCK AT VERTICAL REINFORCING TO PREVENT GROUT FROM FLOWING INTO THE ADJACENT CELL.
2. UNLESS OTHERWISE SHOWN OR NOTED, REINFORCING SHALL BE PLACED IN THE BOTTOM OF THE BOND BEAM AS SHOWN IN THIS DETAIL. WHERE REINFORCING IS SHOWN OR NOTED TO BE IN THE TOP OF THE BOND BEAM, BAR LOCATION SHALL BE 6 1/2"± 1/2" FROM THE BOTTOM OF THE BOND BEAM AND THE BOND BEAM UNIT SHALL BE INVERTED SUCH THAT THE REMAINING WEB IS IN THE BOTTOM.
3. REINFORCING SHALL HAVE 1/2" MINIMUM GROUT COVER TO ALL C.M.U. SURFACES.
4. GROUT STOP SCREEN SHALL BE DUR-O-STOP AS MANUFACTURED BY DUR-O-WAL OR OTHER APPROVED EQUIVALENT.
5. USE LINTEL BLOCK WHERE BOND BEAM OCCURS DIRECTLY ABOVE WINDOW, DOOR OR LOUVER OPENING.

G S4.1 TYPICAL C.M.U. CONTROL JOINT DETAIL (C.J.)
3/4" = 1'-0"

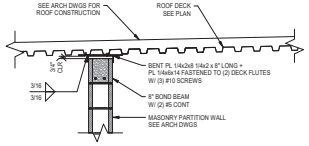


NOTES:
1. HORIZONTAL JOINT REINFORCING IN BLOCK AND BRICK SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
2. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
3. UNLESS OTHERWISE SHOWN OR NOTED, SPACING OF CONTROL JOINTS SHALL NOT EXCEED 25 FEET AT EXTERIOR WALLS AND 32 FEET AT INTERIOR WALLS.

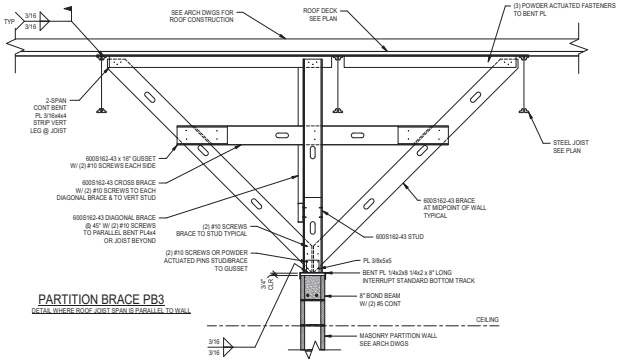
H S4.1 TYPICAL C.M.U. BOND BEAM DETAIL
3/4" = 1'-0"



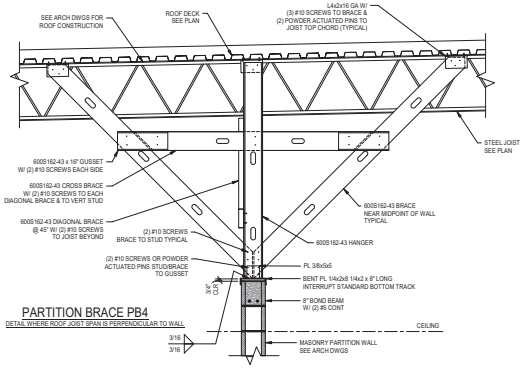
PARTITION BRACE PB1
DETAIL WHERE ROOF JOIST SPAN IS PARALLEL TO WALL



PARTITION BRACE PB2
DETAIL WHERE ROOF JOIST SPAN IS PERPENDICULAR TO WALL

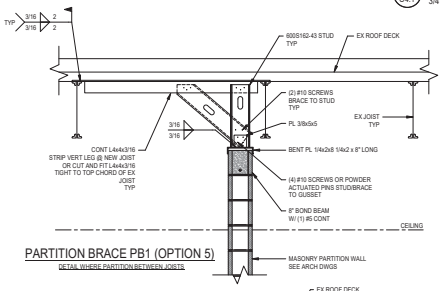


PARTITION BRACE PB3
DETAIL WHERE ROOF JOIST SPAN IS PARALLEL TO WALL

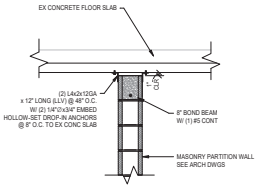


PARTITION BRACE PB4
DETAIL WHERE ROOF JOIST SPAN IS PERPENDICULAR TO WALL

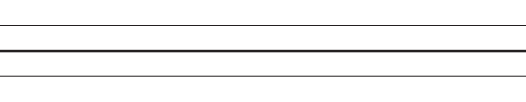
J S4.1 TYPICAL MASONRY PARTITION BRACING AT FLOOR OR ROOF DETAIL
3/4" = 1'-0"



PARTITION BRACE PB1 (OPTION 5)
DETAIL WHERE PARTITION BETWEEN JOISTS



NOTES:
1. DETAIL APPLIES AT ALL NON-LOAD BEARING MASONRY PARTITIONS.
2. LEAVE 1" MIN GAP BETWEEN MASONRY WALLS AND ALL SIDES OF STEEL JOISTS/DECK.
3. CONTRACTOR SHALL ADJUST DETAILS AS REQUIRED WHEN PARTITIONS OCCUR DIRECTLY BELOW JOISTS, OR OTHER CONFLICTS. 1" MIN GAP BETWEEN PARTITION AND STRUCTURE SHALL BE MAINTAINED.
4. UNLESS OTHER SPECIFIC ARRANGEMENTS ARE MADE, BRACING OF MASONRY PARTITIONS SHALL BE THE RESPONSIBILITY OF THE MASONRY SUBCONTRACTOR.
5. ADJUST WIDTH OF BENT PL WHICH RECEIVES TOP OF WALL TO MATCH WALL THICKNESS.
6. SPACING BETWEEN PARTITION BRACES IS 12'-0" MAX U.N.O. IF LENGTH OF WALL IS LESS THAN 24'-0", USE ONLY ONE BRACE AT MID-POINT.



PARTITION BRACE PB1 (OPTION 6)
DETAIL WHERE PARTITION BELOW JOIST

100% DESIGN DEVELOPMENT

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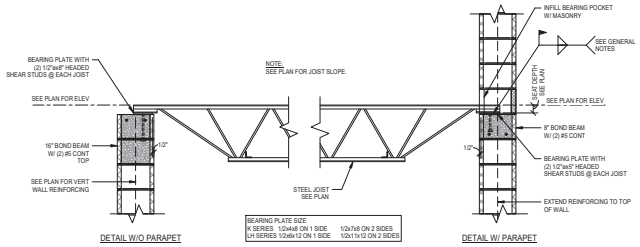
BG MOVING FORWARD

TYPICAL FRAMING DETAILS
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

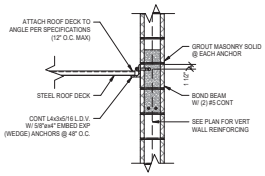
BG# 23-050
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

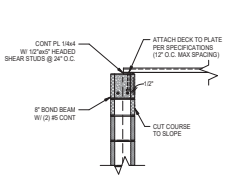
S4.1



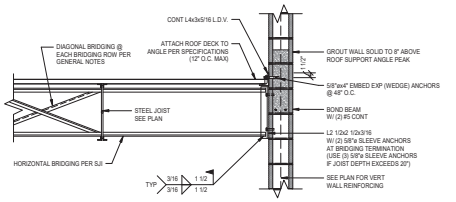
A S4.2 TYPICAL ROOF JOIST BEARING DETAIL
NOT TO SCALE



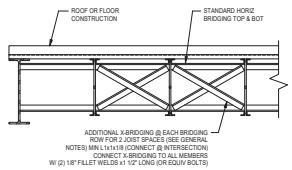
B S4.2 TYPICAL ROOF DECK SUPPORT ANGLE DETAIL
NOT TO SCALE



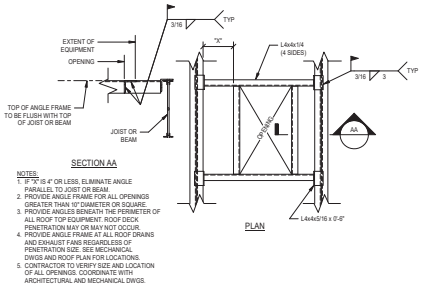
C S4.2 TYPICAL ROOF DECK SUPPORT DETAIL
NOT TO SCALE



D S4.2 TYPICAL ROOF JOIST BRIDGING ANCHOR AND ROOF DECK SUPPORT DETAIL
NOT TO SCALE

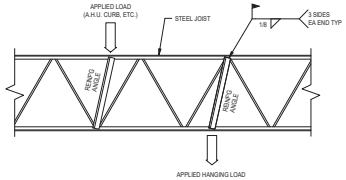


E S4.2 TYPICAL JOIST BRIDGING AT EDGE BEAM DETAIL
NOT TO SCALE



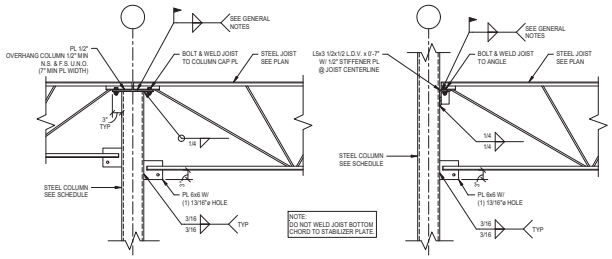
NOTES:
1. IF "X" IS 4" OR LESS, ELIMINATE ANGLE PARALLEL TO JOIST OR BEAM
2. PROVIDE ANGLE FRAME FOR ALL OPENINGS GREATER THAN 10" DIAMETER OR SQUARE.
3. PROVIDE ANGLES BENEATH THE PERIMETER OF ALL ROOF TOP EQUIPMENT. ROOF DECK PENETRATION MAY OR MAY NOT OCCUR.
4. PROVIDE ANGLE FRAME AT ALL ROOF DRAINS AND EXHAUST FANS REGARDLESS OF PENETRATION SIZE. SEE MECHANICAL DWGS AND ROOF PLAN FOR LOCATIONS.
5. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL OPENINGS. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DWGS.

F S4.2 TYPICAL ROOF FRAME OPENING DETAIL
NOT TO SCALE

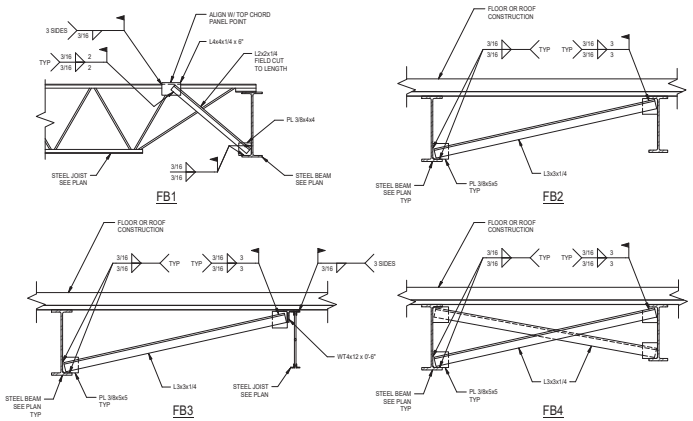


NOTES:
1. MINIMUM ANGLE SIZE L1x1x1/8 FOR JOISTS 30" DEEP AND SHALLOWER AND L2x2x1/4 FOR JOISTS DEEPER THAN 30".
2. WELD ONE END OF ANGLE TO JOIST AT THE POINT OF LOAD APPLICATION AND THE OPPOSITE END TO THE NEAREST JOIST PANEL POINT.
3. DETAIL APPLIES FOR ALL CONCENTRATED LOADS GREATER THAN 250 LBS LOCATED MORE THAN 3" FROM THE CLOSEST JOIST PANEL POINT.

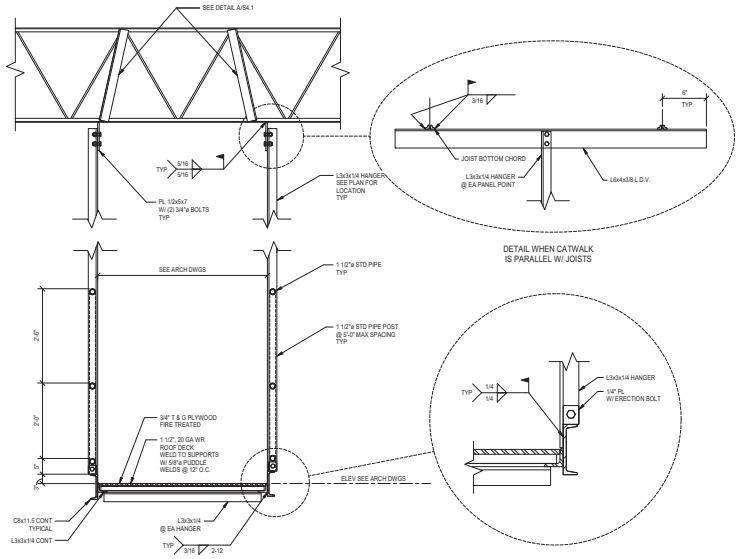
G S4.2 TYPICAL STEEL JOIST REINFORCING DETAIL
NOT TO SCALE



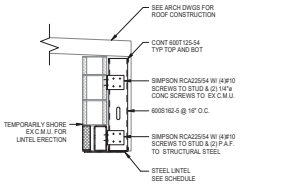
H S4.2 TYPICAL JOIST SEAT ON COLUMN CAP / FACE DETAIL
NOT TO SCALE



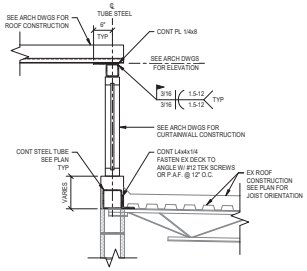
J S4.2 TYPICAL FLANGE BRACE DETAIL
NOT TO SCALE



K S4.2 CATWALK
NOT TO SCALE



L S4.2 SECTION
3/4" = 1'-0"



M S4.2 SECTION
3/4" = 1'-0"

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TYPICAL FRAMING DETAILS
BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
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BG# 23-050
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2022-35

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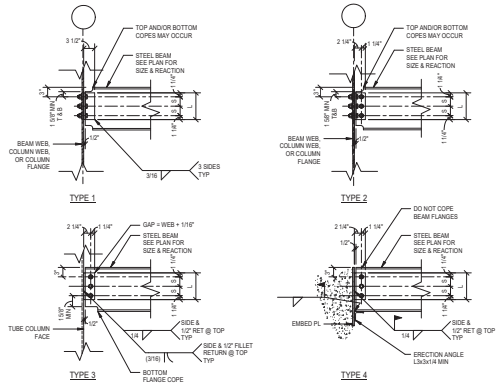
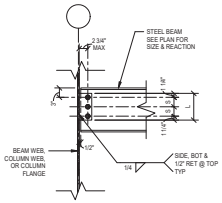


CONNECTION CAPACITY TABLE					
NO. OF BOLT ROWS ASTM A325-N	LENGTH OF ANGLE L (INCHES)	CONNECTION CAPACITY (KIPS)			
		TYPE 1	TYPE 2	TYPE 3	TYPE 4
2	5 1/2	19	14	14	14
3	8 1/2	35	24	24	32
4	11 1/2	58	42	42	53
5	14 1/2	87	63	63	76
6	17 1/2	122	88	88	100
7	20 1/2	151	116	116	125
8	23 1/2	169	154	149	149
9	26 1/2	185	177	173	173
10	29 1/2	202	230	197	197

NOTES:
1. ALL CONNECTION ANGLES L4x3 1/2x5/16, ASTM A572 GR 50, N.S. & F.S.
2. ALL BOLTS ASTM A325-N, 3/4"ø.
3. ALL WELDS E70XX.
4. BOLT SPACING (S) = 3".
5. SHORT HORIZONTAL SLOTTED HOLES MAY BE USED.
6. WELD AT ERECTION ANGLE TO BE DETERMINED BY FABRICATOR/ERECTOR CONSIDERING MEMBER WEIGHTS AND ERECTION FORCES.

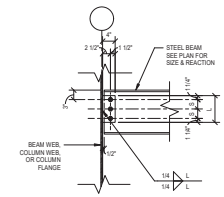
A S4.3 TYPICAL DOUBLE ANGLE SHEAR CONNECTION DETAIL
NOT TO SCALE



CONNECTION CAPACITY TABLE		
NO. OF BOLTS ASTM A325-N	LENGTH OF ANGLE L (INCHES)	CONNECTION CAPACITY (KIPS)
2	5 1/2	9
3	8 1/2	18
4	11 1/2	28
5	14 1/2	38
6	17 1/2	48
7	20 1/2	58
8	23 1/2	68
9	26 1/2	77
10	29 1/2	87

NOTES:
1. ALL CONNECTION ANGLES, L4x3x3/8 SLO.
2. ALL BOLTS ASTM A325-N, 3/4"ø.
3. ALL WELDS E70XX.
4. BOLT SPACING (S) = 3".
5. SHORT HORIZONTAL SLOTTED HOLES MAY BE USED AT SUPPORTED BEAM CONNECTION. STANDARD-SIZED HOLES SHALL BE USED IN CONNECTION AT SUPPORT WHERE BOTH LEGS ARE BOLTED.
6. BOTH LEGS MAY BE BOLTED WITH NO REDUCTION IN CONNECTION CAPACITY AS LONG AS THE BOLTS THROUGH THE SUPPORTING MEMBER ARE NOT SHARED WITH A CONNECTION ON THE OPPOSITE SIDE OF THE SUPPORT.

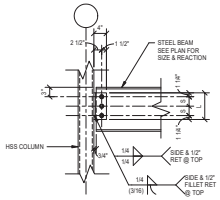
B S4.3 TYPICAL SINGLE ANGLE SHEAR CONNECTION DETAIL
NOT TO SCALE



CONNECTION CAPACITY TABLE		
NO. OF BOLTS ASTM A325-N	LENGTH OF PLATE L (INCHES)	CONNECTION CAPACITY (KIPS)
2	5 1/2	12
3	8 1/2	23
4	11 1/2	30
5	14 1/2	40
6	17 1/2	50

NOTES:
1. ALL CONNECTION PLATES, 3/8" THICK.
2. ALL BOLTS ASTM A325-N, 3/4"ø.
3. ALL WELDS E70XX.
4. BOLT SPACING (S) = 3".
5. SHORT HORIZONTAL SLOTTED HOLES MAY BE USED.
6. SINGLE PLATE SHEAR CONNECTIONS ARE NOT PERMITTED WHERE THE REACTION EXCEEDS 50 KIPS. AT FIELD APPLIED CONNECTIONS, OR CONNECTIONS TO COLUMNS (OTHER THAN AT MOMENT CONNECTIONS, SKEWED CONNECTIONS, PIPE COLUMNS, TUBE COLUMNS WITH FACE DIMENSION 4" OR LESS, OR CONNECTIONS WITH REACTIONS LESS THAN 15 KIPS).
7. WHERE CONNECTION PLATE IS SKEWED UP TO 10° RELATIVE TO THE PERPENDICULAR CONDITION, PROVIDE FILLET WELDS AS SHOWN. WHERE PLATE IS SKEWED BETWEEN 10° AND 40°, ADJUST WELDS PER AISC STEEL MANUAL GUIDELINES. WHERE PLATE IS SKEWED BETWEEN 40° AND 60°, PROVIDE CJP WELD WITH BACKER BAR FOR PLATE-TO-SUPPORT CONNECTION.

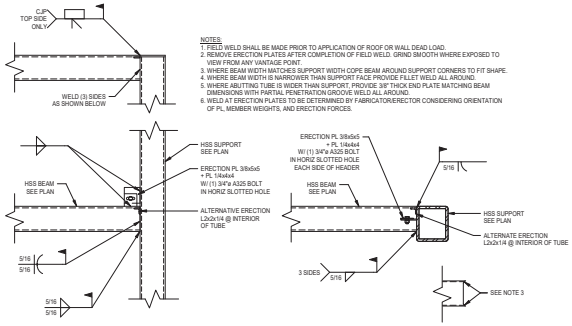
C S4.3 TYPICAL SINGLE PLATE SHEAR CONNECTION DETAIL
NOT TO SCALE



CONNECTION CAPACITY TABLE		
NO. OF BOLTS ASTM A325-N	LENGTH OF WT L (INCHES)	CONNECTION CAPACITY (KIPS)
2	5 1/2	12
3	8 1/2	18
4	11 1/2	26
5	14 1/2	36
6	17 1/2	46
7	20 1/2	56

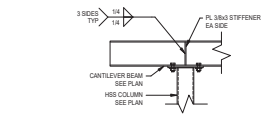
NOTES:
1. ALL CONNECTION MATERIAL, WT4x7.5.
2. ALL BOLTS ASTM A325-N, 3/4"ø.
3. ALL WELDS E70XX.
4. BOLT SPACING (S) = 3".
5. SHORT HORIZONTAL SLOTTED HOLES MAY BE USED.

D S4.3 TYPICAL WT SHEAR CONNECTION DETAIL
NOT TO SCALE

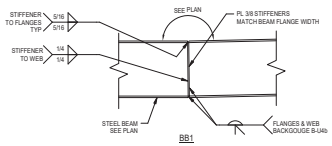


NOTES:
1. FIELD WELD SHALL BE MADE PRIOR TO APPLICATION OF ROOF OR WALL DEAD LOAD.
2. REMOVE ERECTION PLATES AFTER COMPLETION OF FIELD WELD. GRIND SMOOTH WHERE EXPOSED TO VIEW FROM ANY VANTAGE POINT.
3. WHERE BEAM WIDTH MATCHES SUPPORT WIDTH COPE BEAM AROUND SUPPORT CORNERS TO FIT SHAPE.
4. WHERE BEAM WIDTH IS NARROWER THAN SUPPORT FACE PROVIDE FILLET WELD ALL AROUND.
5. WHERE ABUTTING TUBE IS WIDER THAN SUPPORT, PROVIDE 3/8" THICK END PLATE MATCHING BEAM DIMENSIONS WITH PARTIAL PENETRATION GROOVE WELD ALL AROUND.
6. WELD AT ERECTION PLATES TO BE DETERMINED BY FABRICATOR/ERECTOR CONSIDERING ORIENTATION OF PL, MEMBER WEIGHTS, AND ERECTION FORCES.

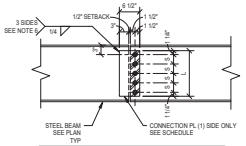
E S4.3 TYPICAL TUBE TO TUBE CONNECTION DETAIL
NOT TO SCALE



F S4.3 TYPICAL CANTILEVER BEAM DETAILS
NOT TO SCALE



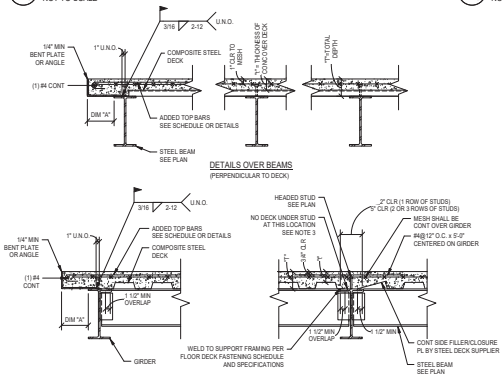
G S4.3 TYPICAL BENT BEAM DETAILS
NOT TO SCALE



CONNECTION CAPACITY TABLE		
NO. OF BOLTS ASTM A325-N	LENGTH OF PLATE L (INCHES)	CONNECTION CAPACITY (KIPS)
2	5 1/2	16
3	8 1/2	32
4	11 1/2	45
5	14 1/2	57
6	17 1/2	69
7	20 1/2	81

NOTES:
1. ALL CONNECTION PLATES, 3/8" THICK, ASTM A572 GR 50.
2. ALL BOLTS ASTM A325-N, 3/4"ø.
3. ALL WELDS E70XX.
4. BOLT SPACING (S) = 3".
5. SHORT HORIZONTAL SLOTTED HOLES MAY BE USED.
6. WELD PL TO STEEL BEAM WITH THICKER WEB. PROVIDE STEEL SHIMS AT THINNER WEB WHERE GAP BETWEEN WEB AND SPLICE PL EXCEEDS 1/16".

H S4.3 TYPICAL BEAM SHEAR SPLICE DETAIL
3/4" = 1'-0"

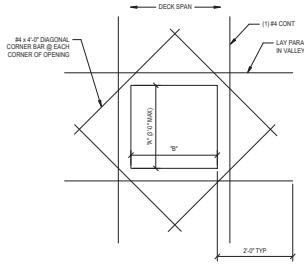


SLAB SCHEDULE					
MARK	"t"	TOTAL DEPTH	CONCRETE	METAL DECK	REINFORCING
SS.5	3 1/2"	5 1/2"	145 PCF	2" 20 GA G60 GALV COMPOSITE STEEL	6x6 - W2.9xW2.9 W.W.F.

NOTES:
1. MESH SHALL BE POSITIVELY SUPPORTED AT 1" FROM TOP OF SLAB PRIOR TO PLACING CONCRETE. DEPRESS MESH AS REQUIRED AT REINFORCING ONLY.
2. LAP SPLICE MESH A MINIMUM OF 8" OR 2 WIRES.
3. INTERRUPT AND PROVIDE GAP IN DECK WITH GIRDER FILLER AT ALL GIRDERS PARALLEL OR SKEWED TO DECK SPAN. AT CONTRACTOR'S OPTION DECK MAY RUN CONTINUOUS THROUGH AND OVER GIRDER FOR SINGLE STUD ROW APPLICATIONS ONLY WHERE LOWER FLUTE OF DECK ALIGNS OVER BEAM SUCH THAT STUD ANCHORS CAN BE PLACED IN BOTTOM FLUTE AND OVER MIDDLE 1/3 OF BEAM TOP FLANGE WIDTH.

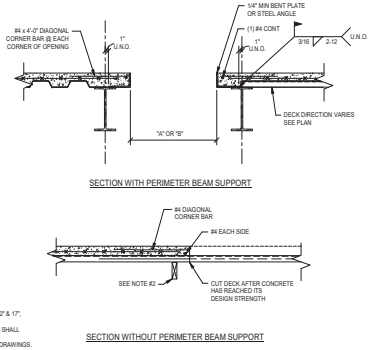
ADDED TOP BARS AT CANTILEVERED ENDS	
DIMENSION "A"	REINFORCING
UP TO 4'	MESH ONLY
4' TO 24'	#4@12" O.C. x 4'-0" + HOOK

J S4.3 DETAILS FOR COMPOSITE DECK CONSTRUCTION
NOT TO SCALE



NOTES:
1. REINFORCING REQUIRED FOR ALL OPENINGS WITH DIMENSION "A" LARGER THAN 18". FOR OPENINGS BETWEEN 12" & 17", USE ONLY CORNER BARS. FOR OPENINGS < 12", NO ADDITIONAL REINFORCING IS REQUIRED.
2. IF CONTRACTOR DESIRES TO CUT DECK BEFORE SLAB IS POURED, ADDITIONAL BEAM SUPPORT FOR METAL DECK SHALL BE INSTALLED AT CONTRACTOR'S EXPENSE.
3. IF OPENING DIMENSIONS ARE NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.

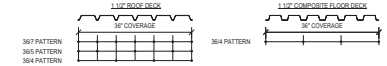
DETAIL WITHOUT PERIMETER BEAM SUPPORT



K S4.3 TYPICAL SLAB OPENING DETAIL
NOT TO SCALE

FASTEN STEEL FLOOR AND ROOF DECK AS INDICATED BELOW FOR EACH DIAPHRAGM ZONE AS MARKED ON PLAN.

A. FASTEN DECK UNITS AT ENDS AND AT INTERMEDIATE SUPPORTS WITH FASTENERS AS NOTED IN SCHEDULE ACCORDING TO THE FOLLOWING PATTERNS.



DIAPHRAGM ZONE	DECK TYPE	PANEL ENDS AND INTERMEDIATE SUPPORTS	DECK SIDE LAPS
ZONE 1	1.5WR20	#12 TEK SCREW OR P.A.F. PIN @ 36/4 PATTERN	#10 TEK SCREW @ 36" O.C. MAX
ZONE 2	1.5WR20	#12 TEK SCREW OR P.A.F. PIN @ 36/4 PATTERN	#10 TEK SCREW @ 18" O.C. MAX
ALL	FLOOR	5/8"ø PUDDLE WELD @ 36/4 PATTERN	1 1/4" LONG ARC SEAM WELD @ 36" O.C. MAX

B. FASTEN DECK SIDE LAPS, INCLUDING DECK TO CLOSURE PLATES, WITH #10 SELF DRILLING SCREWS AS NOTED IN SCHEDULE.

C. FASTEN DECK PERIMETER SIDE EDGES (PARALLEL TO DECK SPAN), INCLUDING CLOSURE PLATES, TO STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS (FLOOR DECK) OR #12 TEK SCREWS OR P.A.F. PIN (ROOF DECK OR FORM DECK) SPACED AT 12" ON CENTER.

L S4.3 STEEL FLOOR/ROOF DECK FASTENING SCHEDULE
NOT TO SCALE

studio kremer architects
1231 S Shelby St, Louisville, KY 40203
TEL (502) 409-1109 FAX (502) 409-1101

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BROWN+KUBICAN STRUCTURAL ENGINEERS
Louisville, KY 40220
8900 Greenway Commons Pl #201
(502) 410-0050
www.brownkubican.com

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TYPICAL FRAMING DETAILS

BULLITT COUNTY PUBLIC SCHOOLS
BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

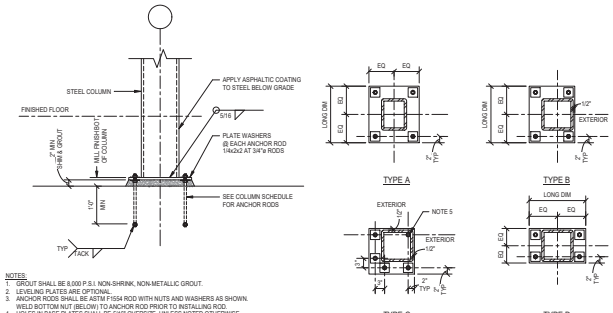
S4.3

STEEL COLUMN SCHEDULE

OMES TOP																																	OMES TOP
26'-0" BotDeck HS																																	26'-0" BotDeck HS
11'-9 1/2" LEVEL 1 OMES	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS10x10x5/8	HSS10x10x5/8	HSS10x10x5/8	HSS10x10x5/8	HSS4x4x3/8	HSS6x6x3/8	HSS8x8x3/8	HSS6x6x3/8	HSS5x5x3/8	HSS5x5x5/8	HSS10x10x3/8	HSS6x6x3/8	HSS6x6x3/8	HSS8x8x3/8	HSS6x6x1/2	HSS6x6x3/8	HSS6x6x3/8	HSS5x5x5/8	HSS10x10x3/8	HSS8x8x3/8	HSS6x6x3/8	HSS8x8x5/8	HSS6x6x1/2	HSS10x10x5/8	HSS10x10x5/8	HSS10x10x3/8	HSS10x10x3/8	HSS8x8x3/8	11'-9 1/2" LEVEL 1 OMES
0"																																	0"
BASE PLATE	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x16x16	3/4x16x16	3/4x16x16	3/4x16x16	3/4x12x12	3/4x12x12	3/4x16x16	3/4x12x12	3/4x12x12	3/4x12x12	3/4x16x16	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x16x16	3/4x16x16	3/4x12x12	3/4x16x16	3/4x12x12	3/4x16x16	3/4x16x16	3/4x16x16	3/4x16x16	3/4x16x16	
ANCHOR RODS	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 1ø"	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	
BASE PL TYPE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
CAP PLATE	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
NOTES																	CENTER IN WALL																
Column Locations	A-12	A-13	A(-2 1/16")-15	A-17	C-18	C-19	C-20	C-21	C.8-23.6	D-7	E-11	F-7	F-9	F-10	F-22	G-7	G-9	G-10	G.8-5	H-7	H-9	H-10	H-22	J-11	K-7	K.5-12.3	L-5	M-18	M-19	M-20	M-21	M-22	

OMES TOP																OMES TOP
26'-0" BotDeck HS																26'-0" BotDeck HS
11'-9 1/2" LEVEL 1 OMES	HSS4x4x3/8	HSS8x8x3/8	HSS8x8x3/8	HSS8x8x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	HSS4x4x3/8	11'-9 1/2" LEVEL 1 OMES
0"																0"
BASE PLATE	3/4x12x12	3/4x16x16	3/4x16x16	3/4x16x16	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	3/4x12x12	
ANCHOR RODS	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	(4) 3/4"ø	
BASE PL TYPE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
CAP PLATE	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
NOTES																
Column Locations	P-4	P.6-18.5	P.6-20.2	P.6-20.9	P.7-24	Q-4	Q.3-23	Q.3-24	R-4	S-3	S-4	T-2	T-3	U-1	U-2	

COLUMN SCHEDULE NOTES:
1. SEE PLAN FOR TOP OF FOUNDATION OR PIER ELEVATION.
2. CONTRACTOR MAY SUBMIT ALTERNATE COLUMN SPLICE LOCATIONS FOR REVIEW BY ENGINEER.
3. SEE DETAIL A/S-5.1 FOR BASE PLATE INFORMATION.
4. CAP PLATES SHALL BE WELDED TO COLUMN WITH ALL-AROUND SEAL WELD U.N.O.
5. WHERE COLUMN EXTENDS TO UNDERSIDE OF ROOF DECK, SLOPE TOP OF COLUMN TO MATCH ROOF DECK SLOPE.
6. COORDINATE BOTTOM OF BASE PLATE ELEVATION WITH SUPPORTING FOUNDATION ELEMENT ELEVATION GIVEN ON PLAN (FOOTING, PIER, PIER CAP, OR GRADE BEAM) & DETAIL A/S5.1.
7. WHERE TOP OF COLUMN ENDS AT FLOOR LEVEL (SLAB ON DECK CONSTRUCTION) TOP OF COLUMN SHALL MATCH TOP OF ADJACENT STEEL BEAM FRAMING ELEVATION. WHERE TOP OF COLUMN ENDS AT ROOF LEVEL (DECK ON STEEL FRAMING) COORDINATE TOP OF COLUMN ELEVATION WITH ELEVATIONS NOTED ON PLAN & FRAMING SECTIONS.
8. COORDINATE WITH PLANS AND MOMENT CONNECTION SCHEDULE FOR CAP PLATE DIM & PLATE ELEVATION WHERE MOMENT CONNECTION OCCURS AT TOP OF COLUMN.
9. COORDINATE WITH DETAIL H/S4.2 FOR CAP PLATE CONDITION WHERE STEEL JOIST BEARS ON TOP OF COLUMN.



NOTES:
1. GROUT SHALL BE 8,000 P.S.I. NON-SHRINK, NON-METALLIC GROUT.
2. LEVELING PLATES ARE OPTIONAL.
3. ANCHOR RODS SHALL BE ASTM F1554 ROD WITH NUTS AND WASHERS AS SHOWN. WELD BOTTOM NUT (BELOW) TO ANCHOR ROD PRIOR TO INSTALLING ROD.
4. HOLES IN BASE PLATES SHALL BE 5/16" OVERSIZE, UNLESS NOTED OTHERWISE.
5. ANCHOR ROD BELOW COLUMN INTENDED FOR VERTICAL SUPPORT DURING ERECTION ONLY. NO TOP NUT/WASHER NEED BE PROVIDED (BASE PL TYPE C).
6. LONG DIMENSION OF BASE PLATE SHALL BE PARALLEL TO LONG DIMENSION OF HSS COLUMN, UNLESS NOTED OTHERWISE.

A / S5.1 TYPICAL STEEL COLUMN BASE PLATE SETTING DETAIL
NOT TO SCALE

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studio

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502 910-0050

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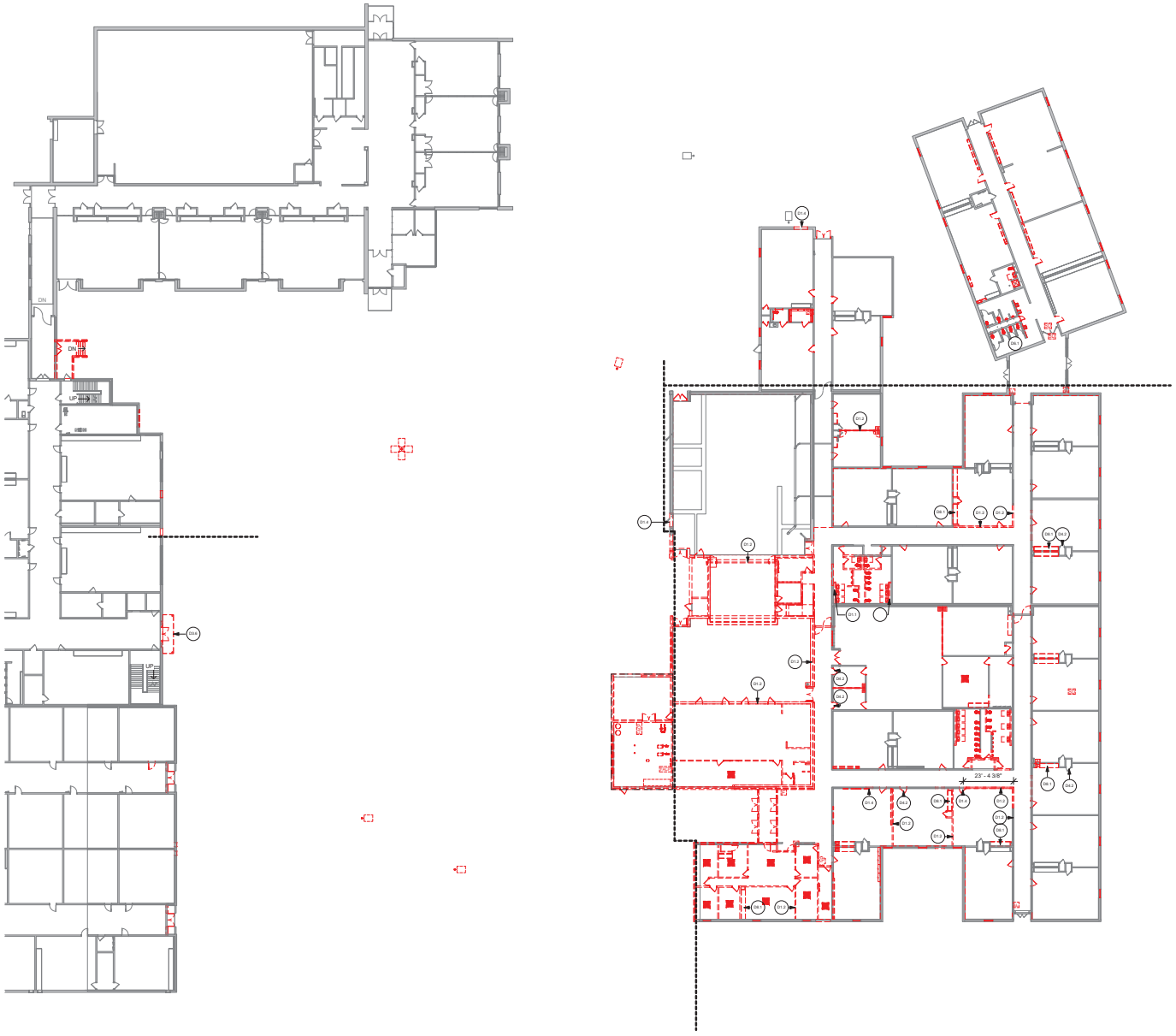
STEEL COLUMN SCHEDULE

BULLITT COUNTY PUBLIC SCHOOLS
BULLIT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050
DATE : 07/24/2023
DRAWN BY : JLL
CHECKED BY : AJB
REVISIONS :

2022-35

S5.1



1 FIRST FLOOR PLAN - OVERALL DEMOLITION
1" = 20'-0"

GENERAL DEMOLITION NOTES:

A. ALL MATERIAL TO BE REMOVED IS TO BE DISPOSED OF IN A LAWFUL MANNER.

B. REFER TO DIVISION 02 SPECIFICATION "SELECTIVE BUILDING DEMOLITION" FOR ALL ITEMS TO BE SALVAGED.

C. COORDINATE ALL MECHANICAL AND ELECTRICAL CUTTING AND PATCHING WITH MEP DRAWINGS.

D. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING LAY-IN ACOUSTICAL TILE CEILINGS (TILE AND GRID) COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, ETC.

E. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL BASE AND FLOORING TO SUBSTRATE, INCLUDING ADHESIVE, COMPLETE. PREP AREA TO RECEIVE NEW FINISH, REFER TO NEW FINISH PLAN FOR SCOPE.

F. UNLESS NOTED OTHERWISE REMOVE ALL EXISTING GYPSUM BOARD HEADERS THAT ARE LOCATED ABOVE CEILINGS COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, FRAMING, ETC.

G. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL MOUNTED CLOCKS COMPLETE AND RETURN TO THE OWNER. WALLS TO BE PATCHED WHERE CLOCK WAS REMOVED.

H. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING AUDIO/VISUAL SYSTEM COMPONENTS AND RETURN TO OWNER.

I. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WIRELESS ACCESS POINTS AND RETURN TO OWNER.

KEYNOTE LEGEND

D1.1	REMOVE AND DISPOSE OF EXISTING EXTERIOR MASONRY WALL COMPLETE (SHORE AS REQUIRED). REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL OR STRUCTURAL SUPPORT FOR MASONRY TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT/ENGINEER FOR DIRECTION. SALVAGE BRICK FOR RE-USE.
D1.2	REMOVE AND DISPOSE OF EXISTING INTERIOR MASONRY WALL COMPLETE (SHORE AS REQUIRED). IF LOAD-BEARING MASONRY WALL, REFER TO STRUCTURAL DRAWINGS FOR SHORING OR NEW STRUCTURAL SUPPORT. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT/ENGINEER FOR DIRECTION.
D1.4	NEATLY CUT EXISTING EXTERIOR WALL FOR NEW OPENING, DOOR, OR WINDOW (SHORE AS REQUIRED). REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL TO SUPPORT MASONRY TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT / ENGINEER FOR DIRECTION. SALVAGE EXTERIOR BRICK FOR RE-USE.
D3.6	REMOVE AND DISPOSE OF EXISTING WALL MOUNTED AWNING.
D4.2	REMOVE EXISTING DOOR / DOOR HARDWARE: (1) DISPOSE OF DOOR; (2) HARDWARE TO BE SALVAGED AT EXTERIOR DOORS ONLY; (3) EXISTING DOOR FRAME TO REMAIN. PREP FRAME FOR NEW DOOR INSTALLATION.
D6.1	REMOVE AND DISPOSE OF ALL EXISTING PLUMBING FIXTURES IN THIS ROOM, COMPLETE. COORDINATE NEW WORK AND CAPPING OF ANY UTILITIES WITH MEP DRAWINGS. PATCH ALL WALL AND FLOOR SURFACES TO MATCH ADJACENT CONSTRUCTION.
D8.1	REMOVE AND DISPOSE OF EXISTING CASEWORK, COMPLETE. COORDINATE CAPPING OF ANY UTILITIES WITH MEP DRAWINGS. PATCH AND PAINT WALL TO MATCH ADJACENT CONSTRUCTION.

KEYPLAN

studio kremer architects
123 S Shelby St, Louisville, KY 40203
t.502.582.1101 f.502.582.1101

BG MOVING FORWARD

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DEMOLITION PLAN - OVERALL

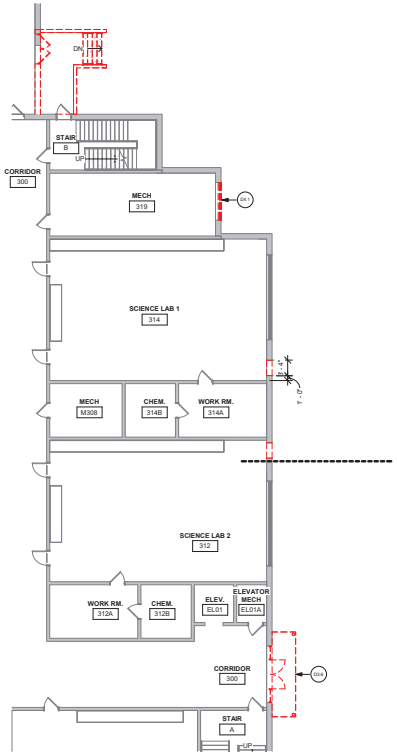
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

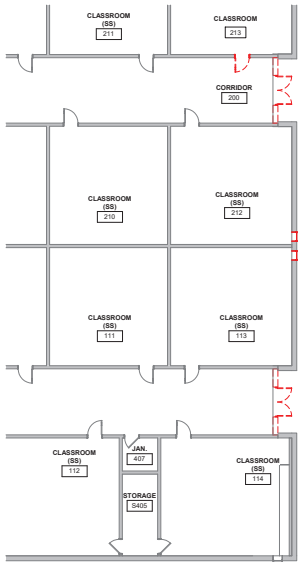
DATE : 07/24/2023
DRAWN BY : CNW
CHECKED BY : SKA
REVISIONS :

2022-35

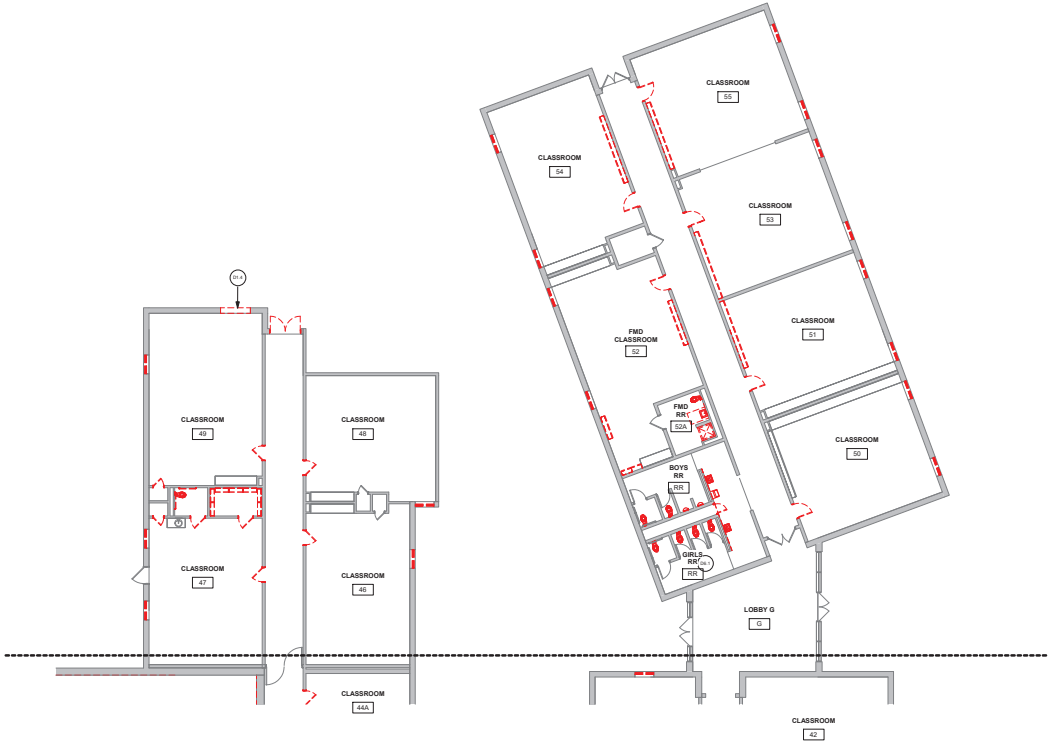
D1.00



3 DEMOLITON PLAN - AREA A and C
3/32" = 1'-0"



2 DEMOLITON PLAN - AREA A.1
3/32" = 1'-0"



1 DEMOLITON PLAN - AREA C
3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

A. ALL MATERIAL TO BE REMOVED IS TO BE DISPOSED OF IN A LAWFUL MANNER.

B. REFER TO DIVISION 02 SPECIFICATION "SELECTIVE BUILDING DEMOLITION" FOR ALL ITEMS TO BE SALVAGED.

C. COORDINATE ALL MECHANICAL AND ELECTRICAL CUTTING AND PATCHING WITH MEP DRAWINGS.

D. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING LAY-IN ACOUSTICAL TILE CEILINGS (TILE AND GRID) COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, ETC.

E. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL BASE AND FLOORING TO SUBSTRATE, INCLUDING ADHESIVE, COMPLETE. PREP AREA TO RECEIVE NEW FINISH, REFER TO NEW FINISH PLAN FOR SCOPE.

F. UNLESS NOTED OTHERWISE REMOVE ALL EXISTING GYPSUM BOARD HEADERS THAT ARE LOCATED ABOVE CEILINGS COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, FRAMING, ETC.

G. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL MOUNTED CLOCKS COMPLETE AND RETURN TO THE OWNER. WALLS TO BE PATCHED WHERE CLOCK WAS REMOVED.

H. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING AUDIO/VISUAL SYSTEM COMPONENTS AND RETURN TO OWNER.

I. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WIRELESS ACCESS POINTS AND RETURN TO OWNER.

KEYNOTE LEGEND

D1.4	NEATLY CUT EXISTING EXTERIOR WALL FOR NEW OPENING, DOOR, OR WINDOW (SHORE AS REQUIRED). REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL TO SUPPORT MASONRY TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT / ENGINEER FOR DIRECTION. SALVAGE EXTERIOR BRICK FOR RE-USE.
D3.6	REMOVE AND DISPOSE OF EXISTING WALL MOUNTED AWNING.
D4.1	REMOVE EXISTING DOOR / DOOR FRAME / HARDWARE: (1) DISPOSE OF DOOR / DOOR FRAME. (2) HARDWARE TO BE SALVAGED AT EXTERIOR DOORS ONLY.; (3) IF HOLD OPENS ARE REMOVED, REPAIR VOIDS IN WALLS TO MATCH ADJACENT CONSTRUCTION.
D6.1	REMOVE AND DISPOSE OF ALL EXISTING PLUMBING FIXTURES IN THIS ROOM, COMPLETE. COORDINATE NEW WORK AND CAPPING OF ANY UTILITIES WITH MEP DRAWINGS. PATCH ALL WALL AND FLOOR SURFACES TO MATCH ADJACENT CONSTRUCTION.

KEYPLAN

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studio

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DEMOLITION PLAN – AREA A & AREA C

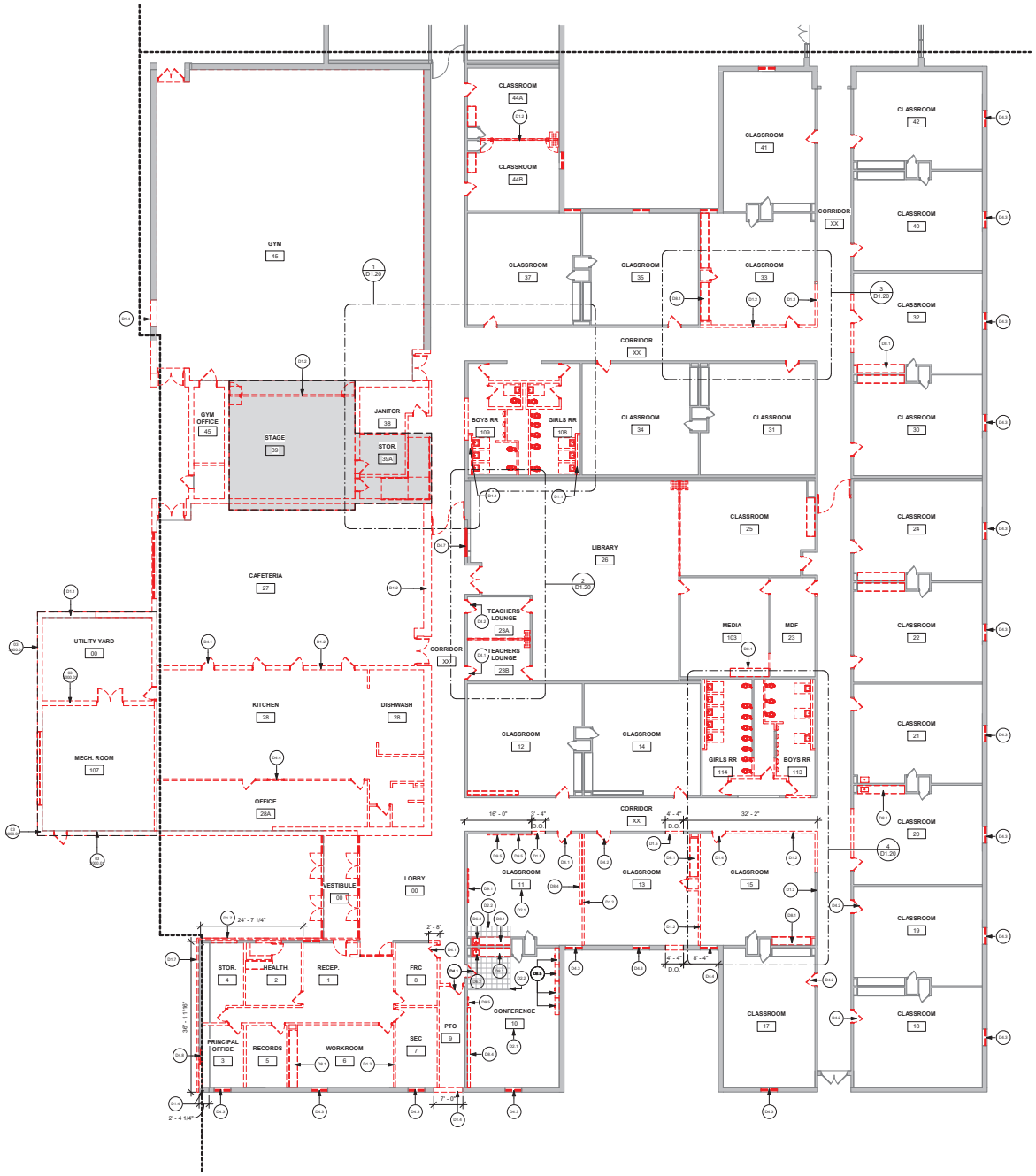
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CNW
CHECKED BY : SKA
REVISIONS :

2022-35

D1.10



1 DEMOLITION PLAN - AREA B
3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

A. ALL MATERIAL TO BE REMOVED IS TO BE DISPOSED OF IN A LAWFUL MANNER.

B. REFER TO DIVISION 02 SPECIFICATION "SELECTIVE BUILDING DEMOLITION" FOR ALL ITEMS TO BE SALVAGED.

C. COORDINATE ALL MECHANICAL AND ELECTRICAL CUTTING AND PATCHING WITH MEP DRAWINGS.

D. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING LAY-IN ACOUSTICAL TILE CEILINGS (TILE AND GRID) COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, ETC.

E. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL BASE AND FLOORING TO SUBSTRATE, INCLUDING ADHESIVE, COMPLETE. PREP AREA TO RECEIVE NEW FINISH, REFER TO NEW FINISH PLAN FOR SCOPE.

F. UNLESS NOTED OTHERWISE REMOVE ALL EXISTING GYPSUM BOARD HEADERS THAT ARE LOCATED ABOVE CEILINGS COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, FRAMING, ETC.

G. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL MOUNTED CLOCKS COMPLETE AND RETURN TO THE OWNER. WALLS TO BE PATCHED WHERE CLOCK WAS REMOVED.

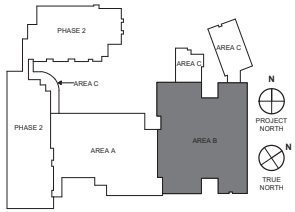
H. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING AUDIO/VISUAL SYSTEM COMPONENTS AND RETURN TO OWNER.

I. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WIRELESS ACCESS POINTS AND RETURN TO OWNER.

KEYNOTE LEGEND

03 3000.0 1	
D1.1	REMOVE AND DISPOSE OF EXISTING EXTERIOR MASONRY WALL COMPLETE (SHORE AS REQUIRED). REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL OR STRUCTURAL SUPPORT FOR MASONRY TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT/ENGINEER FOR DIRECTION. SALVAGE BRICK FOR RE-USE.
D1.2	REMOVE AND DISPOSE OF EXISTING INTERIOR MASONRY WALL COMPLETE (SHORE AS REQUIRED). IF LOAD-BEARING MASONRY WALL, REFER TO STRUCTURAL DRAWINGS FOR SHORING OR NEW STRUCTURAL SUPPORT. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT/ENGINEER FOR DIRECTION.
D1.4	NEATLY CUT EXISTING EXTERIOR WALL FOR NEW OPENING, DOOR, OR WINDOW (SHORE AS REQUIRED). REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL TO SUPPORT MASONRY TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT / ENGINEER FOR DIRECTION. SALVAGE EXTERIOR BRICK FOR RE-USE.
D1.5	NEATLY CUT EXISTING INTERIOR WALL FOR NEW DOOR OR WINDOW OPENING. REFER TO NEW WORK PLANS AND DOOR SCHEDULE FOR DETAILS (SHORE AS REQUIRED). REFER TO STRUCTURAL DRAWINGS FOR NEW LINTEL TO SUPPORT MASONRY TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT/ENGINEER FOR DIRECTION.
D1.7	REMOVE AND DISPOSE OF EXISTING EXTERIOR MASONRY WALL BRICK VENEER AND INSULATION INSIDE CAVITY. EXISTING CMU BEARING WALL TO REMAIN. IF ANY UTILITIES ARE ENCOUNTERED, NOTIFY ARCHITECT/ENGINEER FOR DIRECTION. SALVAGE BRICK FOR RE-USE.
D2.1	REMOVE AND DISPOSE OF EXISTING CARPET, WALL BASE AND ADHESIVE COMPLETE. COORDINATE w/ ASBESTOS ABATEMENT PLAN.
D2.2	REMOVE AND DISPOSE OF EXISTING VCT, WALL BASE AND ADHESIVE COMPLETE. COORDINATE w/ ASBESTOS ABATEMENT PLAN.
D4.1	REMOVE EXISTING DOOR / DOOR FRAME / HARDWARE: (1) DISPOSE OF DOOR / DOOR FRAME; (2) HARDWARE TO BE SALVAGED AT EXTERIOR DOORS ONLY.; (3) IF HOLD OPENS ARE REMOVED, REPAIR VOIDS IN WALLS TO MATCH ADJACENT CONSTRUCTION.
D4.2	REMOVE EXISTING DOOR / DOOR HARDWARE: (1) DISPOSE OF DOOR; (2) HARDWARE TO BE SALVAGED AT EXTERIOR DOORS ONLY; (3) EXISTING DOOR FRAME TO REMAIN. PREP FRAME FOR NEW DOOR INSTALLATION.
D4.3	REMOVE AND DISPOSE OF EXISTING EXTERIOR WINDOW SYSTEM COMPLETE. PREPARE OPENING FOR NEW WINDOW INSTALLATION.
D4.4	REMOVE AND DISPOSE OF EXISTING WINDOW ASSEMBLY, COMPLETE. INFILL OPENING WITH NEW CONSTRUCTION AS DEFINED IN THE WALL TYPES.
D4.7	REMOVE AND DISPOSE OF EXISTING INTERIOR VIEW WINDOW COMPLETE - IF NEW INTERIOR VIEW WINDOW IS SCHEDULED, PREPARE OPENING FOR NEW WINDOW INSTALLATION.
D4.8	REMOVE AND DISPOSE OF EXISTING WINDOW ASSEMBLY, COMPLETE.
D6.2	REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE COMPLETE. COORDINATE NEW WORK AND CAPPING OF ANY UTILITIES WITH MEP DRAWINGS. PATCH ALL WALL AND FLOOR SURFACES TO MATCH ADJACENT CONSTRUCTION.
D8.1	REMOVE AND DISPOSE OF EXISTING CASEWORK, COMPLETE. COORDINATE CAPPING OF ANY UTILITIES WITH MEP DRAWINGS. PATCH AND PAINT WALL TO MATCH ADJACENT CONSTRUCTION.
D8.4	REMOVE AND DISPOSE OF EXISTING WALL MOUNTED SHELVING, COMPLETE. PATCH AND PAINT WALL TO MATCH ADJACENT CONSTRUCTION.
D8.5	REMOVE AND DISPOSE OF EXISTING WALL MOUNTED CABINETS, COMPLETE. PATCH AND PAINT WALL TO MATCH ADJACENT CONSTRUCTION.
D9.1	REMOVE AND DISPOSE OF EXISTING MARKER BOARD AND ASSOCIATED WALL MOUNTED HANGER SYSTEM. PATCH AND PAINT WALL TO MATCH ADJACENT CONSTRUCTION.
D9.5	REMOVE AND DISPOSE OF EXISTING TACK BOARD. IF BOARD IS GLUED TO WALL, COORDINATE WITH ASBESTOS ABATEMENT PLAN.

KEYPLAN



100% DESIGN DEVELOPMENT

studio kremer architects
123 E Gheens St, Louisville, KY 40203
t.s.502.493.1010 f.502.493.1011
studio

BG MOVING FORWARD

DEMOLITION PLAN- AREA B

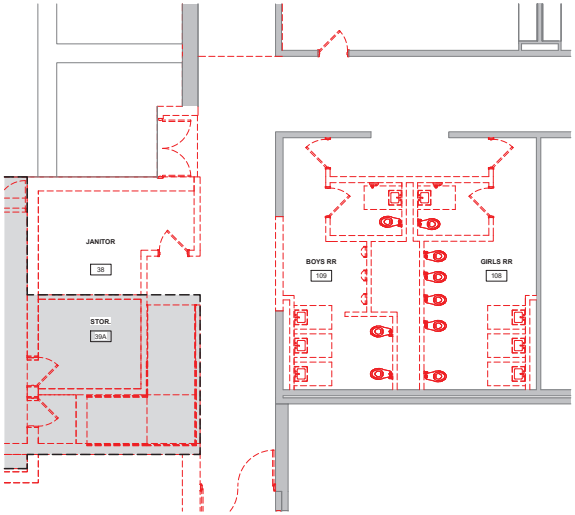
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

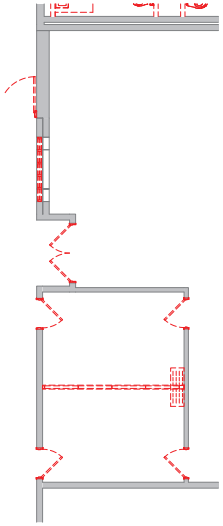
DATE : 07/24/2023
DRAWN BY : CNW
CHECKED BY : SKA
REVISIONS :

2022-35

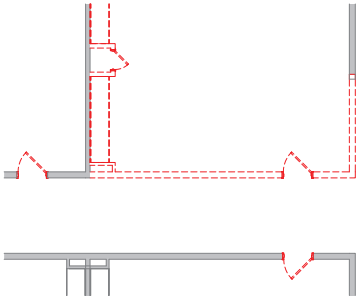
D1.11



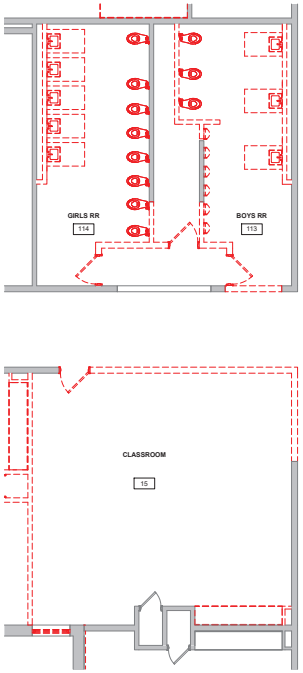
1 ENLARGED DEMO PLAN A
3/16" = 1'-0"



2 ENLARGED DEMO PLAN B
3/16" = 1'-0"



3 ENLARGED DEMO PLAN C
3/16" = 1'-0"



4 ENLARGED DEMO PLAN D
3/16" = 1'-0"

GENERAL DEMOLITION NOTES:

A. ALL MATERIAL TO BE REMOVED IS TO BE DISPOSED OF IN A LAWFUL MANNER.

B. REFER TO DIVISION 02 SPECIFICATION "SELECTIVE BUILDING DEMOLITION" FOR ALL ITEMS TO BE SALVAGED.

C. COORDINATE ALL MECHANICAL AND ELECTRICAL CUTTING AND PATCHING WITH MEP DRAWINGS.

D. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING LAY-IN ACOUSTICAL TILE CEILINGS (TILE AND GRID) COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, ETC.

E. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL BASE AND FLOORING TO SUBSTRATE, INCLUDING ADHESIVE, COMPLETE. PREP AREA TO RECEIVE NEW FINISH, REFER TO NEW FINISH PLAN FOR SCOPE.

F. UNLESS NOTED OTHERWISE REMOVE ALL EXISTING GYPSUM BOARD HEADERS THAT ARE LOCATED ABOVE CEILINGS COMPLETE, INCLUDING ALL ASSOCIATED HANGERS, WIRES, FRAMING, ETC.

G. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WALL MOUNTED CLOCKS COMPLETE AND RETURN TO THE OWNER. WALLS TO BE PATCHED WHERE CLOCK WAS REMOVED.

H. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING AUDIO/VISUAL SYSTEM COMPONENTS AND RETURN TO OWNER.

I. UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING WIRELESS ACCESS POINTS AND RETURN TO OWNER.

KEYNOTE LEGEND

studio kremer architects
123 S Shelby St, Louisville, KY 40203
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s t u d i o

BG MOVING FORWARD

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ENLARGED DEMOLITION PLANS

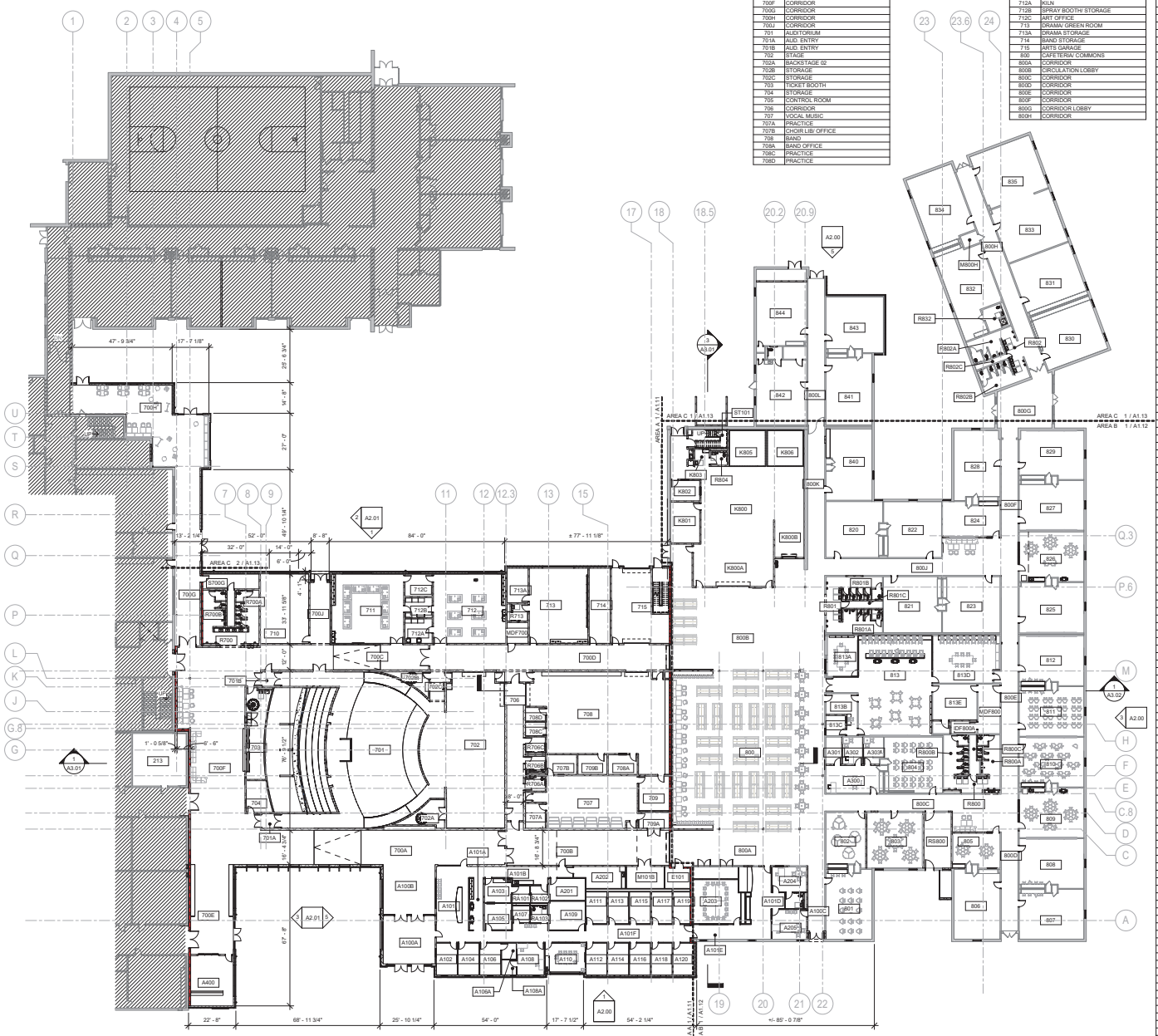
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

D1.20



ROOM #	ROOM NAME
213	RESOURCE
700A	CORRIDOR
700B	CORRIDOR
700C	CORRIDOR
700D	CORRIDOR
700E	CORRIDOR
700F	CORRIDOR
700G	CORRIDOR
700H	CORRIDOR
700J	CORRIDOR
701	AUDITORIUM
701A	AUD. ENTRY
701B	AUD. ENTRY
702	STAGE
702A	BACKSTAGE 02
702B	STORAGE
702C	STORAGE
703	TICKET BOOTH
704	STORAGE
705	CONTROL ROOM
706	CORRIDOR
707	VOCAL MUSIC
707A	PRACTICE
707B	CHOIR LIB/ OFFICE
708	BAND
708A	BAND OFFICE
708C	PRACTICE
708D	PRACTICE

ROOM #	ROOM NAME
709	ENSEMBLE
709A	STORAGE
709B	MUSIC LIBRARY
710	CLASSROOM (HUMANITIES)
711	2D ART
712	3D ART
712A	KILN
712B	SPRAY BOOTH/ STORAGE
712C	ART OFFICE
713	DRAMA/ GREEN ROOM
713A	DRAMA STORAGE
714	BAND STORAGE
715	ARTS GARAGE
800	CAFETERIA/ COMMONS
800A	CORRIDOR
800B	CIRCULATION LOBBY
800C	CORRIDOR
800D	CORRIDOR
800E	CORRIDOR
800F	CORRIDOR
800G	CORRIDOR LOBBY
800H	CORRIDOR

ROOM #	ROOM NAME
800J	CORRIDOR
800K	CORRIDOR
800L	CORRIDOR
801	ISAP CLASS
801A	STORAGE
802	ISAP CLASS
803	TYPICAL CLASSROOM
804	TYP. CLASSRM (30 SEATS)
804A	STORAGE
805	RESOURCE
805A	STORAGE
806	MATH
806A	STORAGE
807	MATH
807A	STORAGE
808	MATH
808A	STORAGE
809	RESOURCE
809A	STORAGE
810	MATH
810A	STORAGE
811	MATH
811A	STORAGE
812	MATH
812A	STORAGE
813	DIGITAL MEDIA (COMP. LAB)
813A	CHARGED MEDIA
813B	OFFICE
813C	PODCAST 1
813D	PHOTOGRAPHY STUDIO
813E	CONFERENCE ROOM
813F	STORAGE
820	MATH
820A	STORAGE
821	MATH
821A	STORAGE
822	MATH
822A	STORAGE
823	MATH
823A	STORAGE
824	RESOURCE
824A	STORAGE
824B	STORAGE
825	MATH
825A	STORAGE
826	RESOURCE
827	MATH
827A	STORAGE
828	MATH
828A	STORAGE
829	MATH
829A	STORAGE
830	RESOURCE ELC
831	LAW ENFORCEMENT
832	FFA/AG
833	LAW ENFORCEMENT
834	FFA/AG
835	LAW ENFORCEMENT
840	CLASSROOM
840A	STORAGE
840B	STORAGE
841	EL CAREER PATH
841A	STORAGE
842	DAYCARE
842A	STORAGE
842B	STORAGE
843	EL CAREER PATH
843A	STORAGE
844	DAYCARE
844A	STORAGE
A100A	SECURE VESTIBULE
A100B	CORRIDOR LOBBY
A100C	CORRIDOR
A101	RECEPTION
A101A	WORK RM & MAIL
A101B	CORRIDOR
A101C	CORRIDOR
A101D	CORRIDOR
A101E	CORRIDOR
A101F	CORRIDOR
A102	ATTEND
A103	NURSE/SICK
A104	ATTEND (Karla)
A105	OFFICE (Sheila)
A106	SRO
A106A	SRO STORAGE
A107	STORAGE
A108	BOOK K (Thersa)
A108A	BK STORAGE
A109	RECORDS
A110	CONF. ROOM
A111	COUNS. 01
A112	AP 01
A113	COUNS. 02
A114	AP 02
A115	COUNS. 03
A116	AP 03
A117	COUNS. 04
A118	AP 04
A119	COUNS. 05
A120	AP 05
A201	SPED
A202	FLEX/ CONFERENCE
A203	MAIN CONFERENCE
A204	PRINCIPAL
A205	COUNS. WAITING
A300	FRYSC
A300A	STORAGE
A301	STORAGE
A302	OFFICE
A303	OFFICE
A400	BOOKSTORE
E101	ELEC
IDF800A	STORAGE
K800	KITCHEN
K800A	SERVING LINE
K800B	DISHWASH
K801	DRY STORAGE
K802	KITCHEN OFFICE
K803	KIT. LOCKER
M101B	MECH
M101D	MECH
M800H	ELEC.
M800K	MECHANICAL
M900	MECHANICAL MEZZANINE
M901	MECHANICAL MEZZANINE
MDF700	MDF
MDF800	SERVER ROOM
R700	RESTROOM- HALL
R700A	RESTROOM- GIRLS
R700B	RESTROOM- BOYS
R700C	PLUMBING CHASE
R708A	RR
R708B	RR
R708C	RR
R713	RR
R800	RESTROOM- HALL
R800A	BOYS RR
R800B	GIRLS RR
R800C	PLUMBING CHASE
R801	RR HALL
R801A	BOYS RR
R801B	GIRLS RR
R801C	PLUMBING CHASE
R802	RESTROOM- HALL
R802A	RESTROOM- BOYS
R802B	RESTROOM - GIRLS
R804	RR
R832	RR
R842	STORAGE
RA101	RR
RA102	RR
RA103	RR
RA201	RR
RS800	FIRE SPRINKLER
S700G	JANITOR

GENERAL PLAN NOTES:

A. CONTRACTOR SHALL COORDINATE WITH CIVIL/SITE PLANNING SCOPE OF WORK INCLUDING BUT NOT LIMITED TO STOOPS, RAMPS AND WALKWAYS.

B. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL SCOPE OF WORK.

C. CONTRACTOR SHALL OBTAIN ALL PERMIT, LICENSES, AND INSPECTIONS AS REQUIRED FROM STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.

D. ALL DIMENSIONS ARE SHOWN FROM FACE OF GYPSUM BOARD - UNLESS NOTED OTHERWISE.

E. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES AND/OR OMISSIONS PRIOR TO COMPLETING PERTINENT AND ASSOCIATED WORK.

F. CONTRACTOR SHALL PROVIDE IN-WALL, 2X WOOD BLOCKING AS REQUIRED TO SUPPORT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO ITEMS BY OTHERS - UNLESS NOTED OTHERWISE.

G. EQUIPMENT IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS FOR INSTALLATION AND FIXED LOCATIONS.

H. PROVIDE MANUAL OPERATED SINGLE ROLL WINDOW SHADES AT EXTERIOR FIXED WINDOWS, UNLESS OTHERWISE NOTED ON INTERIOR ELEVATIONS. REFER TO OPENING DETAILS FOR ADDITIONAL INFORMATION.

I. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR LOCATIONS OF EQUIPMENT.

J. ALL EXPOSED OUTSIDE CORNERS IN CMU WALLS SHALL BE BULLNOSED. IF BULLNOSE IS NOT POSSIBLE IN A GIVEN CONDITION, STAINLESS STEEL CORNER GUARDS SHALL BE PROVIDED. NOTE: ALL BULLNOSE BLOCK SHALL START 8" FROM THE FINISHED FLOOR - FIRST COURSE OF CMU SHALL HAVE STRAIGHT EDGE TO ALLOW FOR PROPER INSTALLATION OF SCHEDULED WALL BASE.

K. IN ADDITION TO CORNER BEADS, PROVIDE STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW DRYWALL PARTITIONS. REFER TO DIVISION 10 SECTION "STAINLESS STEEL CORNER GUARDS" FOR ADDITIONAL INFORMATION.

L. FURNITURE IS O.F.O.I. - FURNITURE, SHOWN GRAY, IS FOR CONTRACTOR REFERENCE RELATIVE TO DATA AND ELECTRICAL DEVICE LOCATIONS.

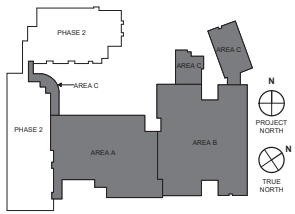
M. ALL CHANGES OF FLOOR FINISH SHALL OCCUR CENTERED UNDER DOOR UNLESS NOTED OTHERWISE.

N. OUTSIDE EDGE OF DOOR JAMBS ARE TO BE LOCATED 4" FROM CORNER UNLESS NOTED OTHERWISE.

O. ALL WINDOW SILLS ARE TO RECEIVE A SOLID SURFACE SILL UNLESS NOTED OTHERWISE. SEE OPENING DETAILS.

KEYNOTE LEGEND

KEYPLAN



1 FIRST FLOOR PLAN- OVERALL
1" = 20'-0"

studio kremer architects
123 E Grade St, Louisville, KY 40203
(502) 583-1105 / 502 - 583 - 1101

BG MOVING FORWARD

FIRST FLOOR PLAN- OVERALL

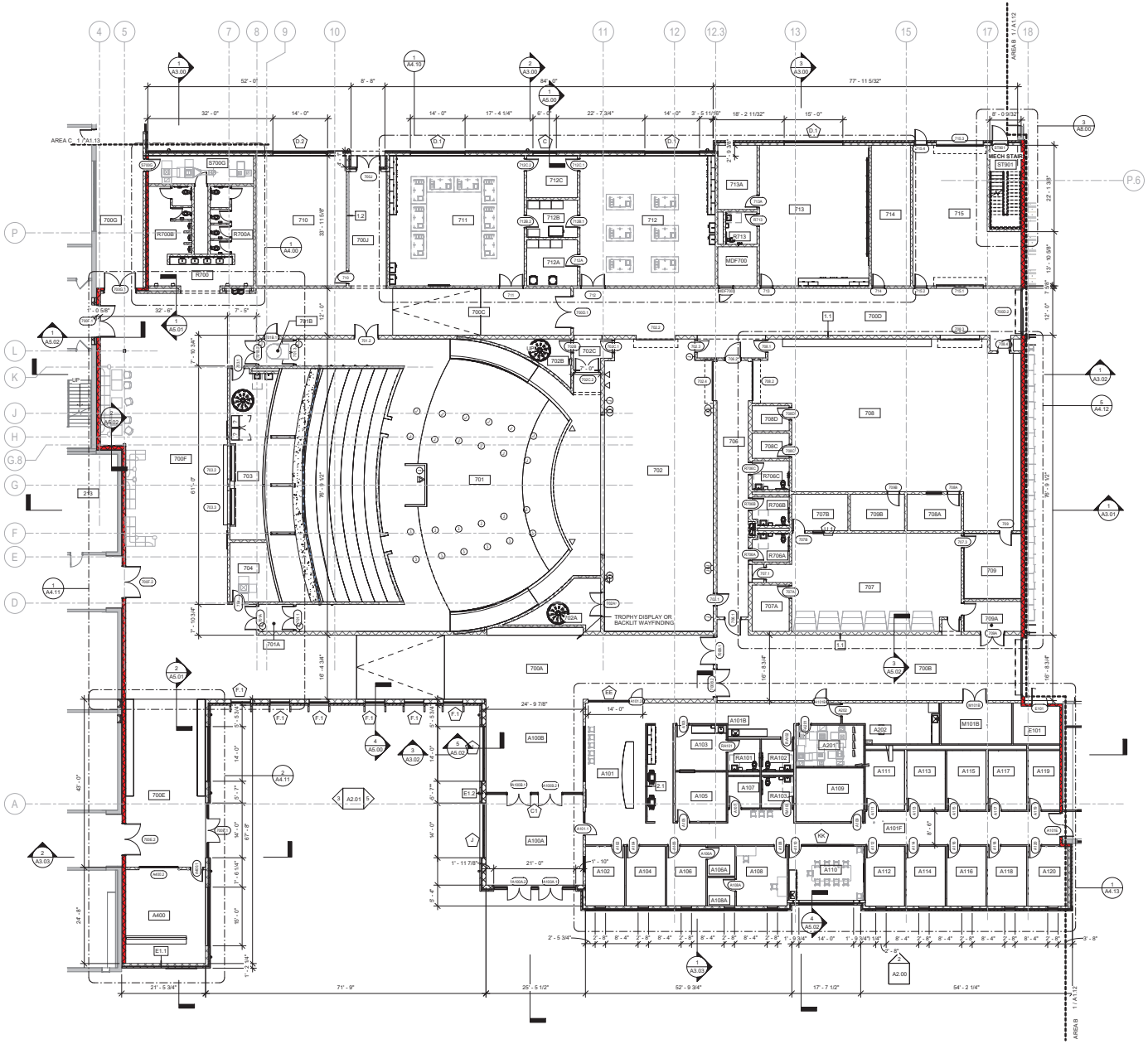
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050
DATE : 07/24/2023
DRAWN BY : MG/SS
CHECKED BY : SKA
REVISIONS :

2022-35

100% DESIGN DEVELOPMENT

A1.10



1 FIRST FLOOR PLAN- AREA A
3/32" = 1'-0"

ROOM #	Name
213	RESOURCE
700A	CORRIDOR
700B	CORRIDOR
700C	CORRIDOR
700D	CORRIDOR
700E	CORRIDOR
700F	CORRIDOR
700G	CORRIDOR
700J	CORRIDOR
701	AUDITORIUM
701A	AUD. ENTRY
701B	AUD. ENTRY
702	STAGE
702A	BACKSTAGE 02
702B	STORAGE
702C	STORAGE
703	TICKET BOOTH
704	STORAGE
706	CORRIDOR
707A	PRACTICE
707B	CHOIR LIB/ OFFICE
708	BAND
708A	BAND OFFICE
708C	PRACTICE
708D	PRACTICE
709	ENSEMBLE
709A	STORAGE
709B	MUSIC LIBRARY
710	CLASSROOM (HUMANITIES)
711	2D ART
712	3D ART
712A	KILN
712B	SPRAY BOOTH/ STORAGE
712C	ART OFFICE
713	DRAMA/ GREEN ROOM
713A	DRAMA STORAGE
714	BAND STORAGE
715	ARTS GARAGE
800	CAFETERIA/ COMMONS
800A	CORRIDOR
800B	CIRCULATION LOBBY
A100A	SECURE VESTIBULE
A100B	CORRIDOR LOBBY
A101	RECEPTION
A101A	WORK RM & MAIL
A101B	CORRIDOR
A101E	CORRIDOR
A101F	CORRIDOR
A102	ATTEND
A103	NURSE/SICK
A104	ATTEND (Karla)
A105	OFFICE (Shalia)
A106	SRO
A106A	SRO STORAGE
A107	STORAGE
A108	BOOK K (Thersa)
A108A	BK STORAGE
A109	RECORDS
A110	CONF. ROOM
A111	COUNS. 01
A112	AP 01
A113	COUNS. 02
A114	AP 02
A115	COUNS. 03
A116	AP 03
A117	COUNS. 04
A118	AP 04
A119	COUNS. 05
A120	AP 05
A201	SPED
A202	FLEX CONFERENCE
A203	MAIN CONFERENCE
A400	BOOKSTORE
E101	ELEC
M101B	MECH
MDF700	MDF
R700	RESTROOM- HALL
R700A	RESTROOM- GIRLS
R700B	RESTROOM- BOYS
R700C	PLUMBING CHASE
R706A	RR
R706B	RR
R706C	RR
R713	RR
RA101	RR
RA102	RR
RA103	RR
S700G	JANITOR

GENERAL PLAN NOTES:

A. CONTRACTOR SHALL COORDINATE WITH CIVILSITE PLANNING SCOPE OF WORK INCLUDING BUT NOT LIMITED TO STOOPS, RAMPS AND WALKWAYS.

B. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL SCOPE OF WORK.

C. CONTRACTOR SHALL OBTAIN ALL PERMIT, LICENSES, AND INSPECTIONS AS REQUIRED FROM STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.

D. ALL DIMENSIONS ARE SHOWN FROM FACE OF GYPSUM BOARD - UNLESS NOTED OTHERWISE.

E. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES AND/OR OMISSIONS PRIOR TO COMPLETING PERTINENT AND ASSOCIATED WORK.

F. CONTRACTOR SHALL PROVIDE IN-WALL, 2X WOOD BLOCKING AS REQUIRED TO SUPPORT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO ITEMS BY OTHERS - UNLESS NOTED OTHERWISE.

G. EQUIPMENT IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS FOR INSTALLATION AND FIXED LOCATIONS.

H. PROVIDE MANUAL OPERATED SINGLE ROLL WINDOW SHADES AT EXTERIOR FIXED WINDOWS, UNLESS OTHERWISE NOTED ON INTERIOR ELEVATIONS. REFER TO OPENING DETAILS FOR ADDITIONAL INFORMATION.

I. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR LOCATIONS OF EQUIPMENT.

J. ALL EXPOSED OUTSIDE CORNERS IN CMU WALLS SHALL BE BULLNOSED. IF BULLNOSE IS NOT POSSIBLE IN A GIVEN CONDITION, STAINLESS STEEL CORNER GUARDS SHALL BE PROVIDED. NOTE: ALL BULLNOSE BLOCK SHALL START 8" FROM THE FINISHED FLOOR - FIRST COURSE OF CMU SHALL HAVE STRAIGHT EDGE TO ALLOW FOR PROPER INSTALLATION OF SCHEDULED WALL BASE.

K. IN ADDITION TO CORNER BEADS, PROVIDE STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW DRYWALL PARTITIONS. REFER TO DIVISION 10 SECTION "STAINLESS STEEL CORNER GUARDS" FOR ADDITIONAL INFORMATION.

L. FURNITURE IS O.F.O.I. - FURNITURE, SHOWN GRAY, IS FOR CONTRACTOR REFERENCE RELATIVE TO DATA AND ELECTRICAL DEVICE LOCATIONS.

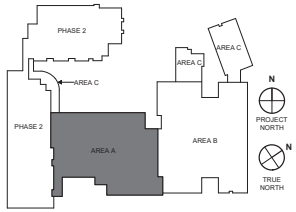
M. ALL CHANGES OF FLOOR FINISH SHALL OCCUR CENTERED UNDER DOOR UNLESS NOTED OTHERWISE.

N. OUTSIDE EDGE OF DOOR JAMBS ARE TO BE LOCATED 4" FROM CORNER UNLESS NOTED OTHERWISE.

O. ALL WINDOW SILLS ARE TO RECEIVE A SOLID SURFACE SILL UNLESS NOTED OTHERWISE. SEE OPENING DETAILS.

KEYNOTE LEGEND

KEYPLAN



100% DESIGN DEVELOPMENT

FIRST FLOOR PLAN- AREA A

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

A1.11

studio kremer architects
123 E Gray St, Louisville, KY 40202
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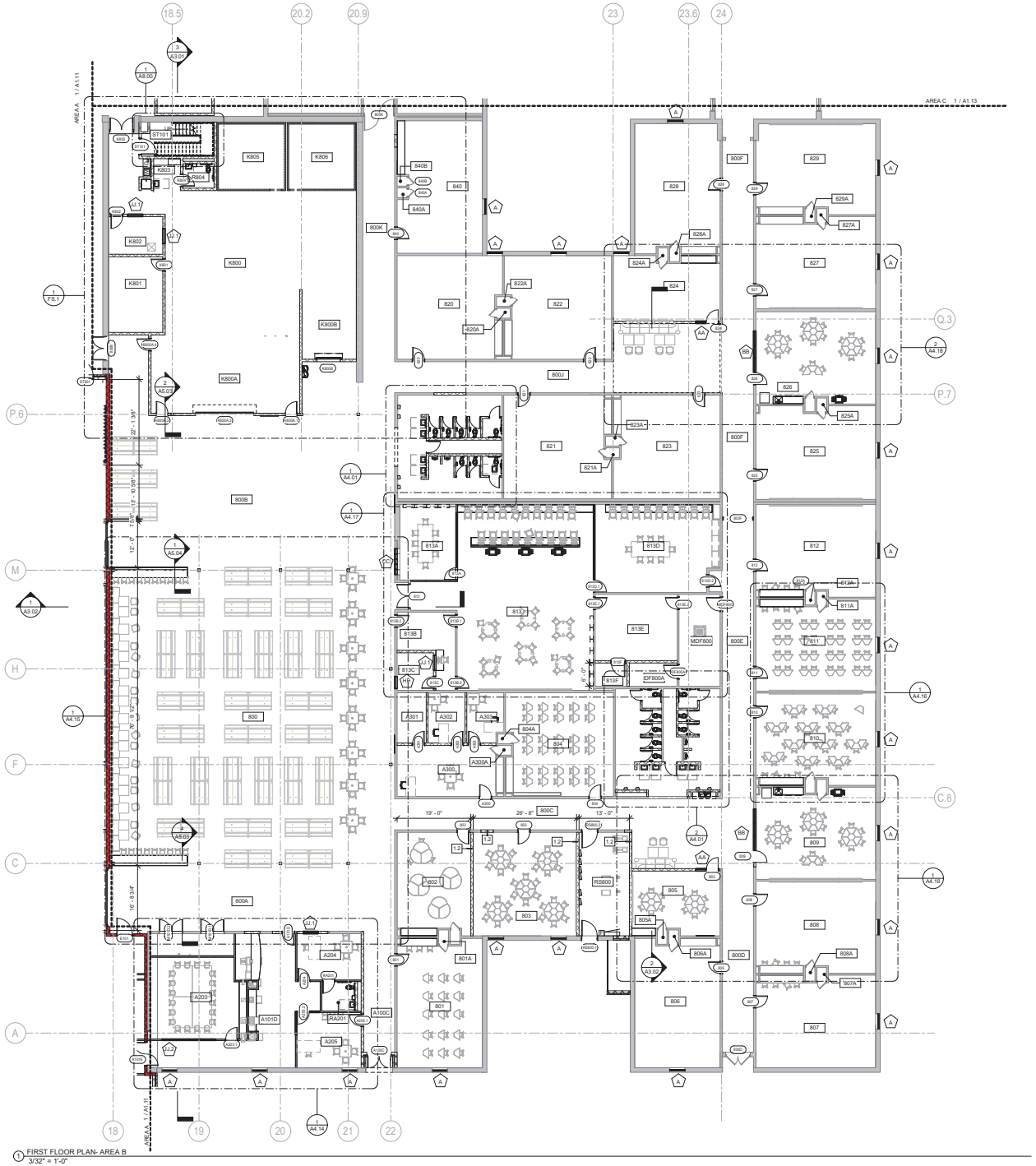
studio

BG MOVING FORWARD



1 FIRST FLOOR PLAN- AREA B
3/32" = 1'-0"

ROOM #	Name
700B	CORRIDOR
700D	CORRIDOR
708	BAND
709	ENSEMBLE
709A	STORAGE
715	ARTS GARAGE
800	CAFETERIA/ COMMONS
800A	CORRIDOR
800B	CIRCULATION LOBBY
800C	CORRIDOR
800D	CORRIDOR
800E	CORRIDOR
800F	CORRIDOR
800G	CORRIDOR LOBBY
800J	CORRIDOR
800K	CORRIDOR
800L	CORRIDOR
801	ISAP CLASS
801A	STORAGE
802	ISAP CLASS
803	TYPICAL CLASSROOM
804	TYP. CLASSRM (30 SEATS)
804A	STORAGE
805	RESOURCE
805A	STORAGE
806	MATH
806A	STORAGE
807	MATH
807A	STORAGE
808	MATH
808A	STORAGE
809	RESOURCE
809A	STORAGE
810	MATH
810A	STORAGE
811	MATH
811A	STORAGE
812	MATH
812A	STORAGE
813	DIGITAL MEDIA (COMP. LAB)
813A	CHARGED MEDIA
813B	OFFICE
813C	PODCAST 1
813D	PHOTOGRAPHY STUDIO
813E	CONFERENCE ROOM
813F	STORAGE
820	MATH
820A	STORAGE
821	MATH
821A	STORAGE
822	MATH
822A	STORAGE
823	MATH
823A	STORAGE
824	RESOURCE
824A	STORAGE
825	MATH
825A	STORAGE
826	RESOURCE
827	MATH
827A	STORAGE
828	MATH
828A	STORAGE
829	MATH
829A	STORAGE
840	CLASSROOM
840A	STORAGE
840B	STORAGE
841	EL CAREER PATH
842	DAYCARE
A100C	CORRIDOR
A101D	CORRIDOR
A101E	CORRIDOR
A101F	CORRIDOR
A119	COUNS. 05
A120	AP 05
A203	MAIN CONFERENCE
A204	PRINCIPAL
A205	COUNS. WAITING
A300	FRYSC
A300A	STORAGE
A301	STORAGE
A302	OFFICE
A303	OFFICE
E101	ELEC
IDF800A	STORAGE
K800A	SERVING LINE
K800B	DISHWASH
K801	DRY STORAGE
K802	KITCHEN OFFICE
K803	KIT. LOCKER
MDF800	SERVER ROOM
R800	RESTROOM- HALL
R800A	BOYS RR
R800B	GIRLS RR
R800C	PLUMBING CHASE
R801	RR HALL
R801A	BOYS RR
R801B	GIRLS RR
R801C	PLUMBING CHASE
R804	RR
RA201	RR
RS800	FIRE SPRINKLER

GENERAL PLAN NOTES:

A. CONTRACTOR SHALL COORDINATE WITH CIVIL/SITE PLANNING SCOPE OF WORK INCLUDING BUT NOT LIMITED TO STOOPS, RAMPS AND WALKWAYS.

B. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL SCOPE OF WORK.

C. CONTRACTOR SHALL OBTAIN ALL PERMIT, LICENSES, AND INSPECTIONS AS REQUIRED FROM STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.

D. ALL DIMENSIONS ARE SHOWN FROM FACE OF GYPSUM BOARD - UNLESS NOTED OTHERWISE.

E. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES AND/OR OMISSIONS PRIOR TO COMPLETING PERTINENT AND ASSOCIATED WORK.

F. CONTRACTOR SHALL PROVIDE IN-WALL, 2X WOOD BLOCKING AS REQUIRED TO SUPPORT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO ITEMS BY OTHERS - UNLESS NOTED OTHERWISE.

G. EQUIPMENT IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS FOR INSTALLATION AND FIXED LOCATIONS.

H. PROVIDE MANUAL OPERATED SINGLE ROLL WINDOW SHADES AT EXTERIOR FIXED WINDOWS, UNLESS OTHERWISE NOTED ON INTERIOR ELEVATIONS. REFER TO OPENING DETAILS FOR ADDITIONAL INFORMATION.

I. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR LOCATIONS OF EQUIPMENT.

J. ALL EXPOSED OUTSIDE CORNERS IN CMU WALLS SHALL BE BULLNOSED. 8" BULLNOSE IS NOT POSSIBLE IN A GIVEN CONDITION. STAINLESS STEEL CORNER GUARDS SHALL BE PROVIDED. NOTE: ALL BULLNOSE BLOCK SHALL START 8" FROM THE FINISHED FLOOR - FIRST COURSE OF CMU SHALL HAVE STRAIGHT EDGE TO ALLOW FOR PROPER INSTALLATION OF SCHEDULED WALL BASE.

K. IN ADDITION TO CORNER BEADS, PROVIDE STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW DRYWALL PARTITIONS. REFER TO DIVISION 10 SECTION "STAINLESS STEEL CORNER GUARDS" FOR ADDITIONAL INFORMATION.

L. FURNITURE IS O.F.O.I. - FURNITURE, SHOWN GRAY, IS FOR CONTRACTOR REFERENCE RELATIVE TO DATA AND ELECTRICAL DEVICE LOCATIONS.

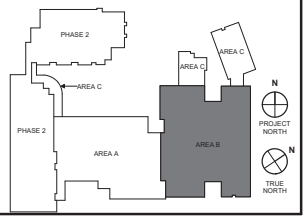
M. ALL CHANGES OF FLOOR FINISH SHALL OCCUR CENTERED UNDER DOOR UNLESS NOTED OTHERWISE.

N. OUTSIDE EDGE OF DOOR JAMBS ARE TO BE LOCATED 4" FROM CORNER UNLESS NOTED OTHERWISE.

O. ALL WINDOW SILLS ARE TO RECEIVE A SOLID SURFACE SILL UNLESS NOTED OTHERWISE. SEE OPENING DETAILS.

KEYNOTE LEGEND

KEYPLAN



100% DESIGN DEVELOPMENT

FIRST FLOOR PLAN- AREA B

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : MMG
CHECKED BY : SKA
REVISIONS :

2022-35

A1.12

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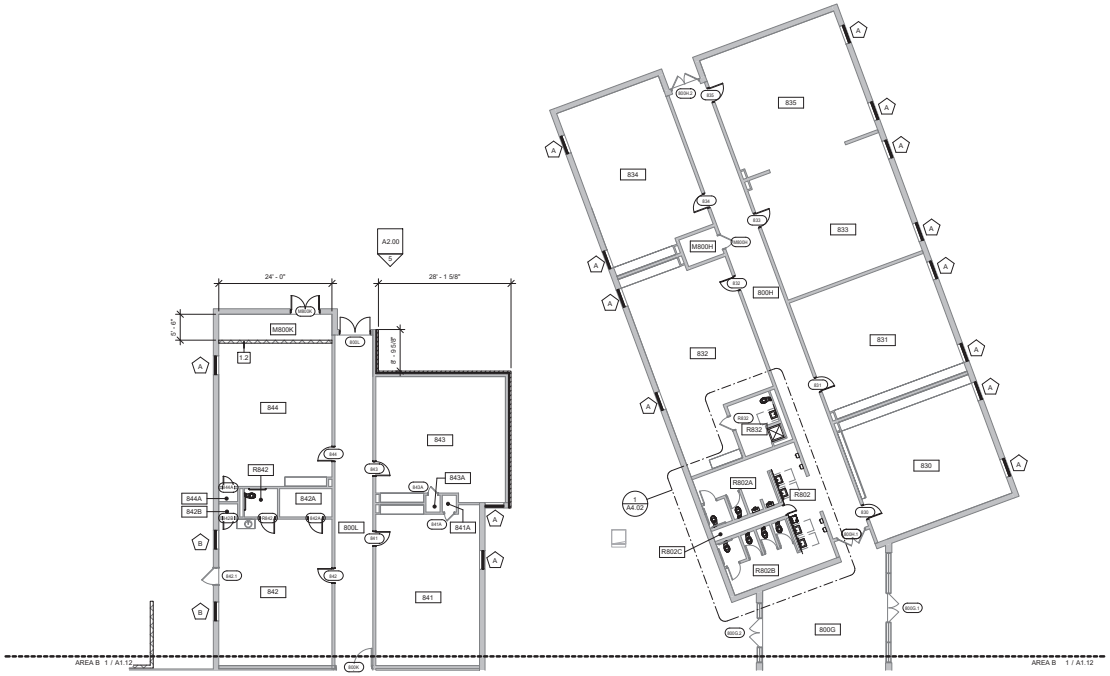
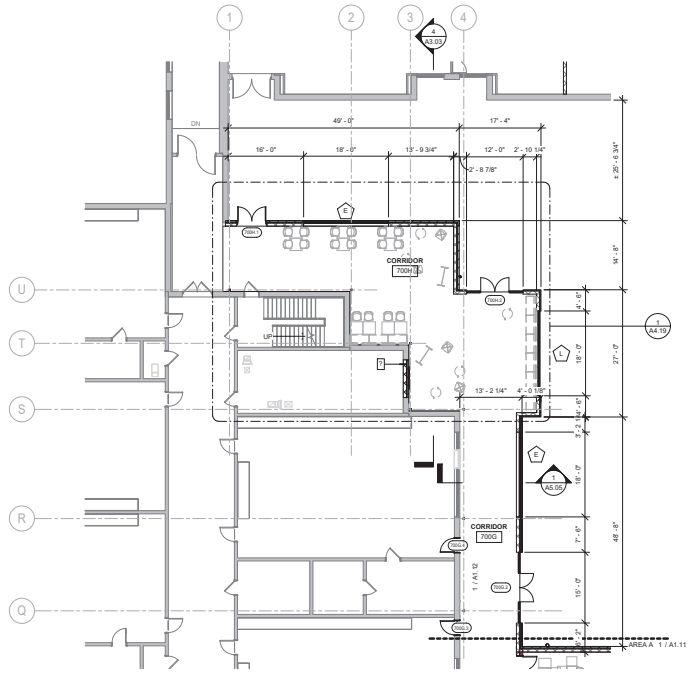
123 E Gray St, Louisville, KY 40202
(o) 502-581-1010 (f) 502-581-1011
studio

BG MOVING FORWARD



1 FIRST FLOOR PLAN- AREA C
3/32" = 1'-0"



2 FIRST FLOOR PLAN- AREA C.1
3/32" = 1'-0"

ROOM #	Name
700G	CORRIDOR
700H	CORRIDOR
800G	CORRIDOR LOBBY
800H	CORRIDOR
800K	CORRIDOR
800L	CORRIDOR
830	RESOURCE ELC
831	LAW ENFORCEMENT
832	FFA/AG
833	LAW ENFORCEMENT
834	FFA/AG
835	LAW ENFORCEMENT
841	EL CAREER PATH
841A	STORAGE
842	DAYCARE
842A	STORAGE
842B	STORAGE
843	EL CAREER PATH
843A	STORAGE
844	DAYCARE
844A	STORAGE
M800H	ELEC.
M800K	MECHANICAL
R802	RESTROOM- HALL
R802A	RESTROOM- BOYS
R802B	RESTROOM - GIRLS
R832	RR
R842	STORAGE
S700G	JANITOR

GENERAL PLAN NOTES:

A. CONTRACTOR SHALL COORDINATE WITH CIVILISITE PLANNING SCOPE OF WORK INCLUDING BUT NOT LIMITED TO STOOPS, RAMPS AND WALKWAYS.

B. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL SCOPE OF WORK.

C. CONTRACTOR SHALL OBTAIN ALL PERMIT, LICENSES, AND INSPECTIONS AS REQUIRED FROM STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.

D. ALL DIMENSIONS ARE SHOWN FROM FACE OF GYPSUM BOARD - UNLESS NOTED OTHERWISE.

E. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES AND/OR OMISSIONS PRIOR TO COMPLETING PERTINENT AND ASSOCIATED WORK.

F. CONTRACTOR SHALL PROVIDE IN-WALL, 2X WOOD BLOCKING AS REQUIRED TO SUPPORT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO ITEMS BY OTHERS - UNLESS NOTED OTHERWISE.

G. EQUIPMENT IS SHOWN FOR REFERENCE ONLY AND IS PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH OTHERS FOR INSTALLATION AND FIXED LOCATIONS.

H. PROVIDE MANUAL OPERATED SINGLE ROLL WINDOW SHADES AT EXTERIOR FIXED WINDOWS, UNLESS OTHERWISE NOTED ON INTERIOR ELEVATIONS. REFER TO OPENING DETAILS FOR ADDITIONAL INFORMATION.

I. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR LOCATIONS OF EQUIPMENT.

J. ALL EXPOSED OUTSIDE CORNERS IN CMU WALLS SHALL BE BULLNOSED. IF BULLNOSE IS NOT POSSIBLE IN A GIVEN CONDITION, STAINLESS STEEL CORNER GUARDS SHALL BE PROVIDED. NOTE: ALL BULLNOSE BLOCK SHALL START 8" FROM THE FINISHED FLOOR - FIRST COURSE OF CMU SHALL HAVE STRAIGHT EDGE TO ALLOW FOR PROPER INSTALLATION OF SCHEDULED WALL BASE.

K. IN ADDITION TO CORNER BEADS, PROVIDE STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW DRYWALL PARTITIONS. REFER TO DIVISION 10 SECTION "STAINLESS STEEL CORNER GUARDS" FOR ADDITIONAL INFORMATION.

L. FURNITURE IS O.F.O.I. - FURNITURE, SHOWN GRAY, IS FOR CONTRACTOR REFERENCE RELATIVE TO DATA AND ELECTRICAL DEVICE LOCATIONS.

M. ALL CHANGES OF FLOOR FINISH SHALL OCCUR CENTERED UNDER DOOR UNLESS NOTED OTHERWISE.

N. OUTSIDE EDGE OF DOOR JAMBS ARE TO BE LOCATED 4" FROM CORNER UNLESS NOTED OTHERWISE.

O. ALL WINDOW SILLS ARE TO RECEIVE A SOLID SURFACE SILL UNLESS NOTED OTHERWISE. SEE OPENING DETAILS.

KEYNOTE LEGEND

KEYPLAN

studio kremer architects
123 S Shelby St, Louisville, KY 40203
t: 502.583.1010 f: 502.583.1011

BG MOVING FORWARD

FIRST FLOOR PLAN- AREA C

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

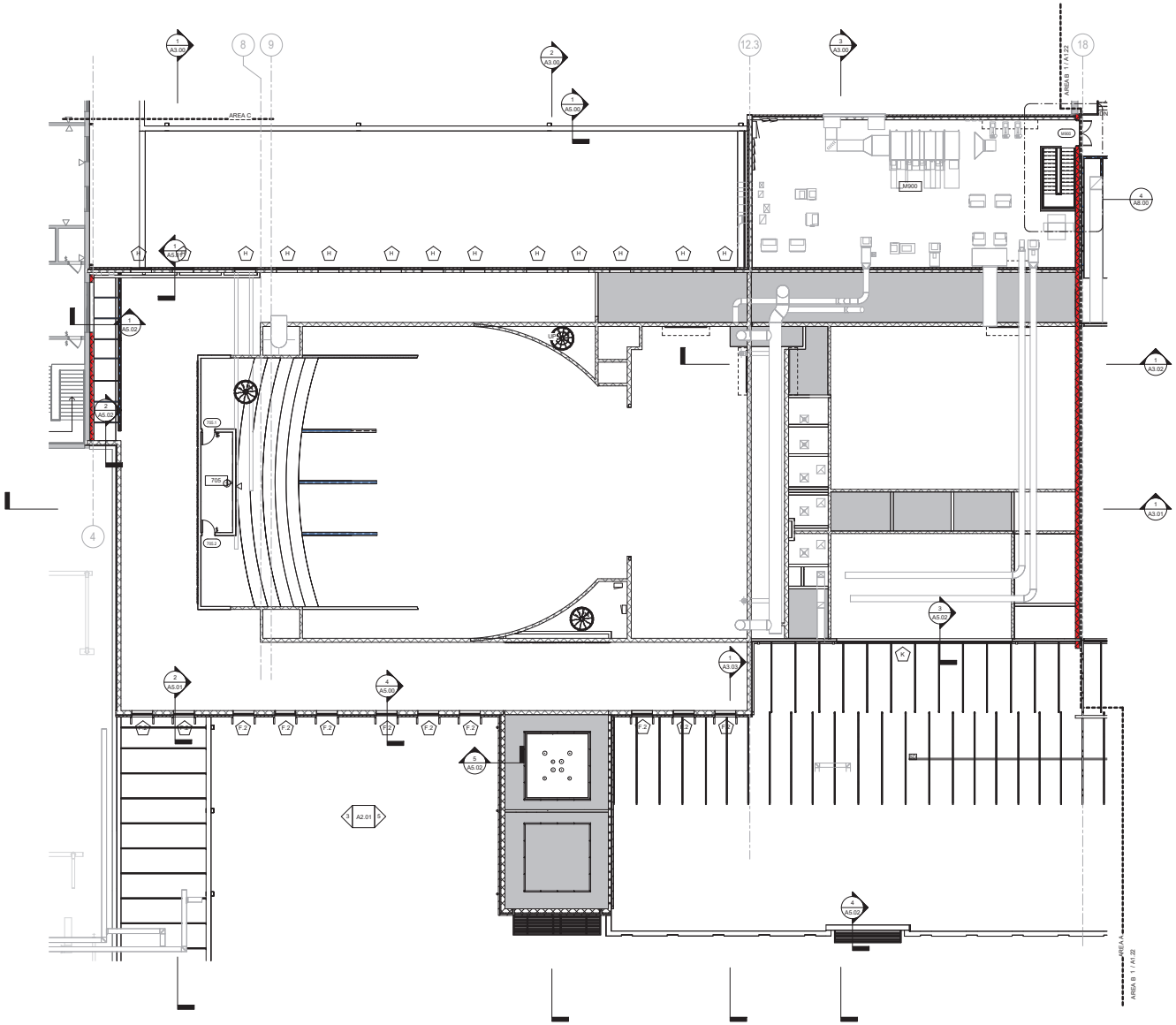
DATE : 07/24/2023
DRAWN BY : MMG
CHECKED BY : SKA
REVISIONS :

2022-35

A1.13

100% DESIGN DEVELOPMENT

ROOM #	Name
705	CONTROL ROOM
A110	CONF. ROOM
A112	AP 01
M900	MECHANICAL MEZZANINE
M901	MECHANICAL MEZZANINE



1 CLERESTORY PLAN - AREA A
3/32" = 1'-0"

GENERAL PLAN NOTES:

A. CONTRACTOR SHALL COORDINATE WITH CIVIL/SITE PLANNING SCOPE OF WORK INCLUDING BUT NOT LIMITED TO STOOPS, RAMPS AND WALKWAYS.

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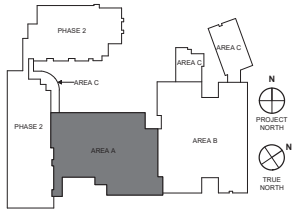
KEYPLAN



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t 502.583.1010 f 502.583.4010

BG MOVING FORWARD

CLERESTORY PLAN- AREA A

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

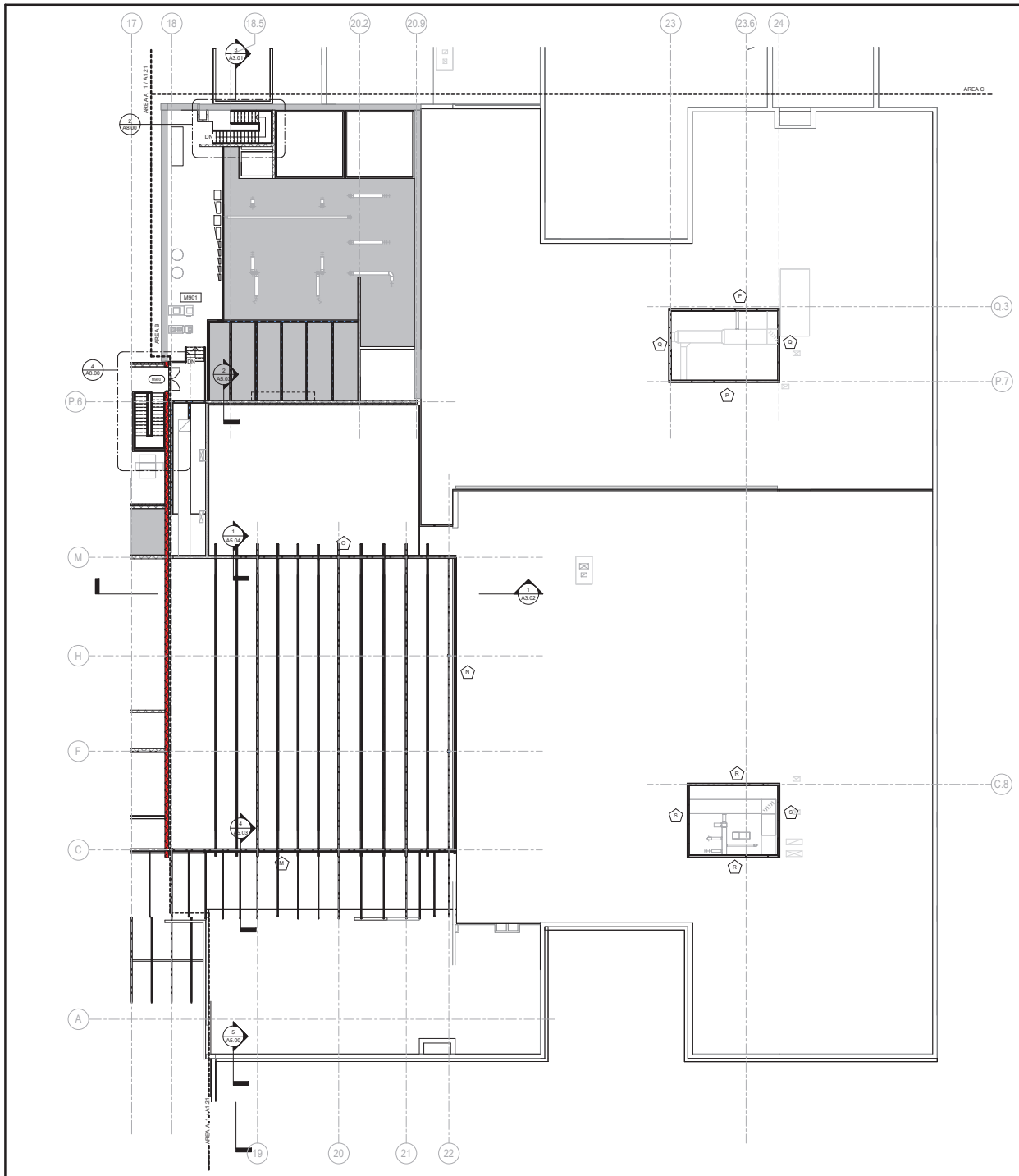
BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

A1.21

100% DESIGN DEVELOPMENT



1 CLERESTORY PLAN - AREA B
3/32" = 1'-0"

ROOM #	Name
M900	MECHANICAL MEZZANINE
M901	MECHANICAL MEZZANINE

GENERAL PLAN NOTES:

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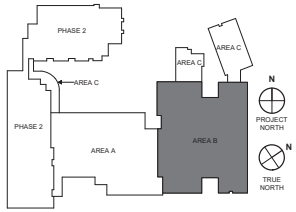
KEYNOTE LEGEND

KEYPLAN



studio kremer architects
1231 E Broadway St. Louisville, KY 40203
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BG MOVING FORWARD

100% DESIGN DEVELOPMENT

CLERESTORY PLAN– AREA B

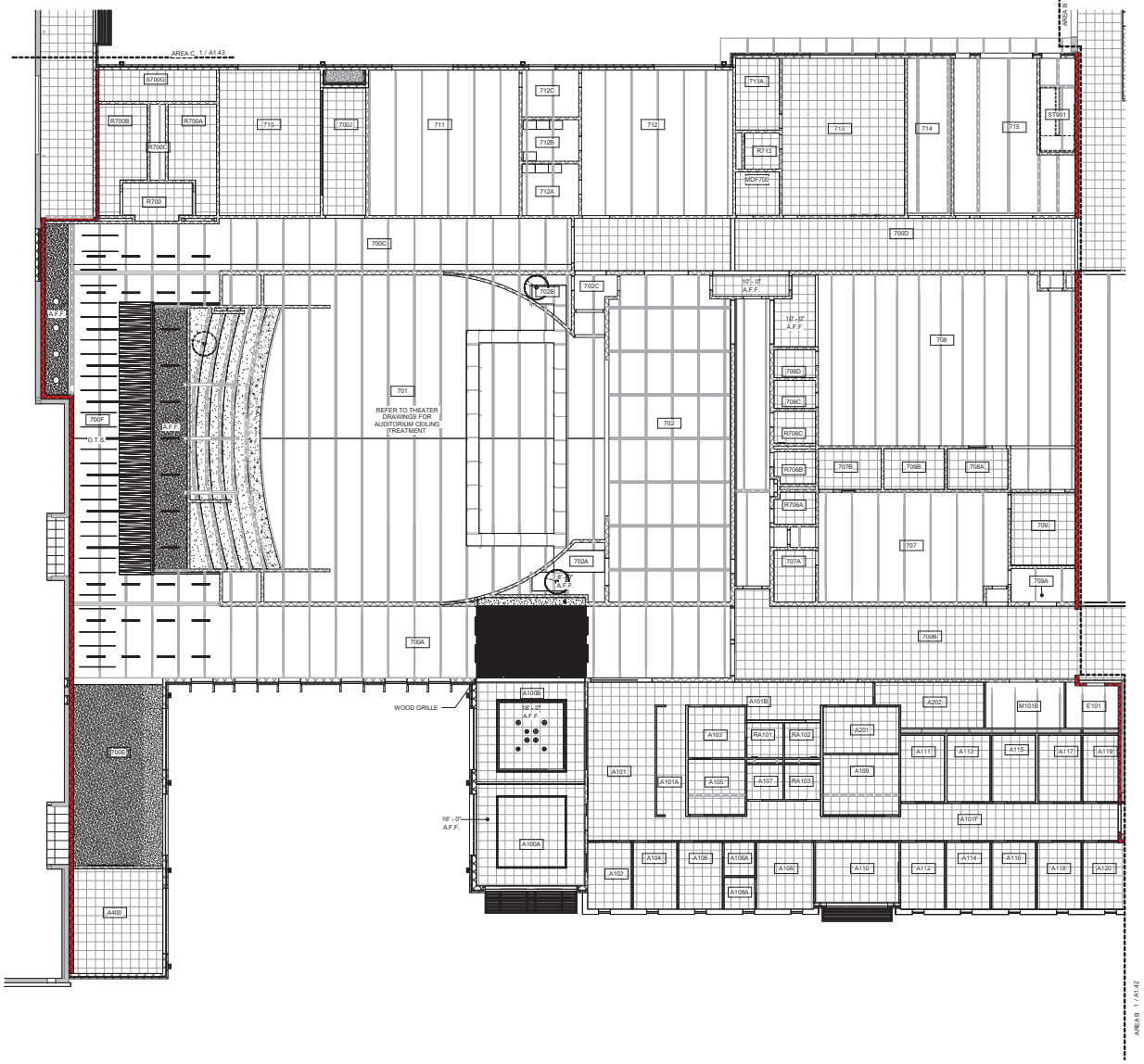
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : MG / SS
CHECKED BY : SKA
REVISIONS :

2022-35

A1.22



1 FIRST FLOOR RCP- AREA A
3/32" = 1'-0"

ROOM #	ROOM NAME	CLG HEIGHT (A.F.F.)
213	RESOURCE	
700A	CORRIDOR	O.T.S.
700B	CORRIDOR	10'-0"
700C	CORRIDOR	O.T.S.
700D	CORRIDOR	13'-0"
700E	CORRIDOR	O.T.S.
700F	CORRIDOR	REFER TO RCP
700G	CORRIDOR	10'-0"
700J	CORRIDOR	10'-0"
701	AUDITORIUM	
701A	AUD. ENTRY	
701B	AUD. ENTRY	
702	STAGE	
702A	BACKSTAGE 02	
702B	STORAGE	
702C	STORAGE	
703	TICKET BOOTH	
704	STORAGE	
706	CORRIDOR	
707A	PRACTICE	10'-0"
707B	CHOIR LIB/ OFFICE	10'-0"
708	BAND	O.T.S. / 10'-0"
708A	BAND OFFICE	10'-0"
708C	PRACTICE	9'-0"
708D	PRACTICE	9'-0"
709	ENSEMBLE	18'-0"
709A	STORAGE	O.T.S.
709B	MUSIC LIBRARY	10'-0"
710	CLASSROOM (HUMANITIES)	10'-0"
711	2D ART	O.T.S.
712	3D ART	O.T.S.
712A	KILN	O.T.S.
712B	SPRAY BOOTH/ STORAGE	O.T.S.
712C	ART OFFICE	O.T.S.
713	DRAMA/ GREEN ROOM	10'-0"
713A	DRAMA STORAGE	10'-0"
714	BAND STORAGE	O.T.S.
715	ARTS GARAGE	O.T.S.
800	CAFETERIA/ COMMONS	O.T.S.
800A	CORRIDOR	10'-0"
800B	CIRCULATION LOBBY	10'-0"
A100A	SECURE VESTIBULE	REFER TO RCP
A100B	CORRIDOR LOBBY	REFER TO RCP
A101	RECEPTION	9'-0"
A101A	WORK RM & MAIL	9'-0"
A101B	CORRIDOR	9'-0"
A101E	CORRIDOR	9'-0"
A101F	CORRIDOR	9'-0"
A102	ATTEND	9'-0"
A103	NURSE/SICK	9'-0"
A104	ATTEND (Karla)	9'-0"
A105	OFFICE (Sheila)	9'-0"
A106	SRO	9'-0"
A106A	SRO STORAGE	9'-0"
A107	STORAGE	9'-0"
A108	BOOK K (Thersa)	9'-0"
A108A	BK STORAGE	9'-0"
A109	RECORDS	9'-0"
A110	CONF. ROOM	9'-0"
A111	COUNS. 01	9'-0"
A112	AP 01	9'-0"
A113	COUNS. 02	9'-0"
A114	AP 02	9'-0"
A115	COUNS. 03	9'-0"
A116	AP 03	9'-0"
A117	COUNS. 04	9'-0"
A118	AP 04	9'-0"
A119	COUNS. 05	9'-0"
A120	AP 05	9'-0"
A201	SPED	9'-0"
A202	FLEX/ CONFERENCE	9'-0"
A203	MAIN CONFERENCE	9'-0"
A400	BOOKSTORE	12'-0"
E101	ELEC	O.T.S.
M101B	MECH	O.T.S.
MDF700	MDF	10'-0"
R700	RESTROOM- HALL	9'-0"
R700A	RESTROOM- GIRLS	9'-0"
R700B	RESTROOM- BOYS	9'-0"
R700C	PLUMBING CHASE	O.T.S.
R706A	RR	9'-0"
R706B	RR	9'-0"
R706C	RR	9'-0"
R713	RR	9'-0"
RA101	RR	9'-0"
RA102	RR	9'-0"
RA103	RR	9'-0"
S700G	JANITOR	10'-0"

GENERAL CEILING NOTES:

A. CEILING ITEMS ARE SHOWN FOR CONFIGURATION. CONTRACTOR SHALL REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

B. CEILING GRIDS SHALL BE CONFIGURED AS SHOWN AND AT EQUAL DIMENSIONS IN BOTH DIRECTIONS WITHIN THE BOUNDARIES OF THE WALLS AND/OR SOFFITS OF THE SPACE - UNLESS NOTED OTHERWISE.

C. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING PERTINENT WORK.

D. ALL DIMENSIONS ARE SHOWN FROM FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.

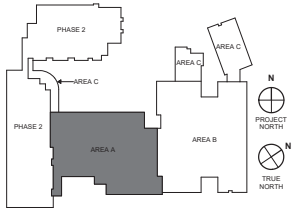
E. ALL EXACT COLORS AND FINISHES SHALL BE AS SPECIFIED OR SELECTED BY ARCHITECT.

CEILING LEGEND

SYMBOL	DESCRIPTION
	ACT: 2' x 2' SUSPENDED ACOUSTIC PANEL CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ACT TYPES
	GYPSUM BOARD CEILING OVER METAL FRAMING
	1 HOUR FIRE RATED GYPSUM BOARD CEILING
	2 HOUR FIRE RATED GYPSUM BOARD CEILING
O.T.S.	OPEN TO STRUCTURE
S-MA	WINDOW SHADE - MANUAL SHADE TO COVER WINDOW, REFER TO CURTAIN WALL ELEVATIONS
	2x4 LIGHT FIXTURE, RE. ELEC.
	2X2 EXHAUST REGISTER, RE. MECHANICAL.
	2X2 SUPPLY REGISTER, RE. MECHANICAL.
	2X2 RETURN REGISTER, RE. MECHANICAL.

KEYNOTE LEGEND

KEYPLAN



100% DESIGN DEVELOPMENT

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123 S Shelby St, Louisville, KY 40203
t.502.583.1010 f.502.583.1011
studio

BG MOVING FORWARD

FIRST FLOOR RCP- AREA A

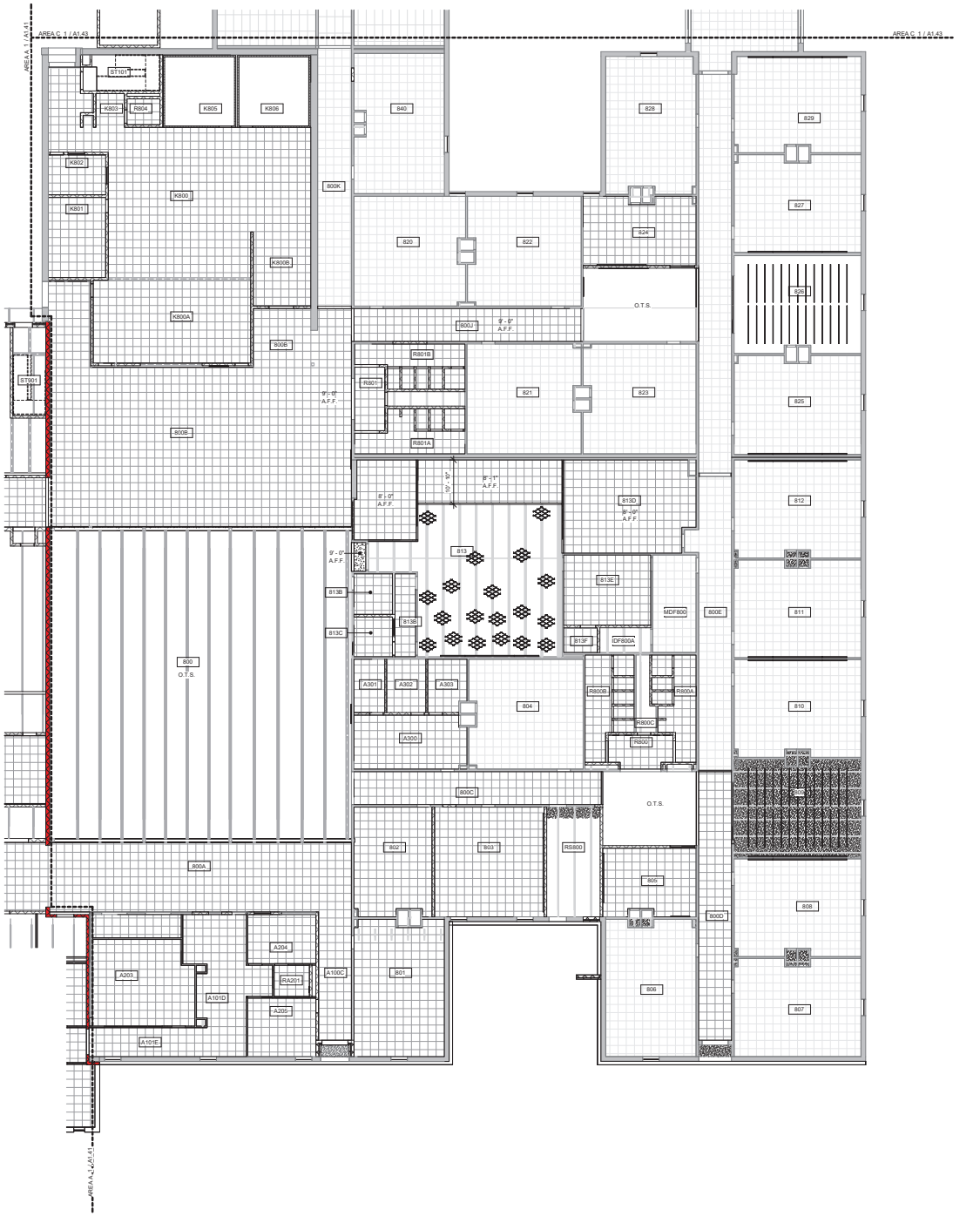
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : MMG
CHECKED BY : SKA
REVISIONS :

2022-35

A1.41



1 FIRST FLOOR RCP- AREA B
3/32" = 1'-0"

ROOM #	ROOM NAME	CLG HEIGHT (A.F.F.)
700B	CORRIDOR	10'-0"
700D	CORRIDOR	13'-0"
708	BAND	O.T.S. / 10'-0"
709	ENSEMBLE	18'-0"
709A	STORAGE	O.T.S.
715	ARTS GARAGE	O.T.S.
800	CAFETERIA/ COMMONS	O.T.S.
800A	CORRIDOR	10'-0"
800B	CIRCULATION LOBBY	10'-0"
800C	CORRIDOR	9'-0"
800D	CORRIDOR	9'-0" / O.T.S.
800E	CORRIDOR	EXIST.
800F	CORRIDOR	EXIST.
800G	CORRIDOR LOBBY	EXIST.
800J	CORRIDOR	9'-0" / O.T.S.
800K	CORRIDOR	EXIST.
800L	CORRIDOR	EXIST.
801	ISAP CLASS	10'-0"
801A	STORAGE	-
802	ISAP CLASS	10'-0"
803	TYPICAL CLASSROOM	10'-0"
804	TYP. CLASSRM (30 SEATS)	EXIST.
804A	STORAGE	-
805	RESOURCE	10'-0"
805A	STORAGE	-
806	MATH	EXIST.
806A	STORAGE	-
807	MATH	EXIST.
807A	STORAGE	-
808	MATH	EXIST.
808A	STORAGE	-
809	RESOURCE	O.T.S.
809A	STORAGE	-
810	MATH	EXIST.
810A	STORAGE	-
811	MATH	EXIST.
811A	STORAGE	-
812	MATH	EXIST.
812A	STORAGE	-
813	DIGITAL MEDIA (COMP. LAB)	9'-0" / O.T.S.
813A	CHARGED MEDIA	-
813B	OFFICE	10'-0"
813C	PODCAST 1	10'-0"
813D	PHOTOGRAPHY STUDIO	REFER TO RCP
813E	CONFERENCE ROOM	9'-0"
813F	STORAGE	-
820	MATH	EXIST.
820A	STORAGE	-
821	MATH	EXIST.
821A	STORAGE	-
822	MATH	EXIST.
822A	STORAGE	-
823	MATH	EXIST.
823A	STORAGE	-
824	RESOURCE	10'-0"
824A	STORAGE	-
825	MATH	EXIST.
825A	STORAGE	-
826	RESOURCE	O.T.S.
827	MATH	EXIST.
827A	STORAGE	-
828	MATH	EXIST.
828A	STORAGE	-
829	MATH	EXIST.
829A	STORAGE	-
840	CLASSROOM	EXIST.
840A	STORAGE	-
840B	STORAGE	-
841	EL CAREER PATH	EXIST.
842	DAYCARE	EXIST.
A100C	CORRIDOR	9'-0"
A101D	CORRIDOR	9'-0"
A101E	CORRIDOR	9'-0"
A101F	CORRIDOR	9'-0"
A119	COUNS. 05	9'-0"
A120	AP 05	9'-0"
A203	MAIN CONFERENCE	9'-0"
A204	PRINCIPAL	9'-0"
A205	COUNS. WAITING	9'-0"
A300	FRYSC	10'-0"
A300A	STORAGE	-
A301	STORAGE	10'-0"
A302	OFFICE	10'-0"
A303	OFFICE	10'-0"
E101	ELEC.	O.T.S.
IDF800A	STORAGE	9'-0"
K800A	SERVING LINE	10'-0"
K800B	DISHWASH	10'-0"
K801	DRY STORAGE	10'-0"
K802	KITCHEN OFFICE	10'-0"
K803	KIT. LOCKER	10'-0"
M101B	MECH	O.T.S.
MDF800	SERVER ROOM	EXIST.
R800	RESTROOM- HALL	9'-0"
R800A	BOYS RR	9'-0"
R800B	GIRLS RR	9'-0"
R800C	PLUMBING CHASE	O.T.S.
R801	RR HALL	9'-0"
R801A	BOYS RR	9'-0"
R801B	GIRLS RR	9'-0"
R801C	PLUMBING CHASE	O.T.S.
R804	RR	9'-0"
RA201	RR	9'-0"
RS800	FIRE SPRINKLER	O.T.S.

GENERAL CEILING NOTES:

A. CEILING ITEMS ARE SHOWN FOR CONFIGURATION. CONTRACTOR SHALL REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

B. CEILING GRIDS SHALL BE CONFIGURED AS SHOWN AND AT EQUAL DIMENSIONS IN BOTH DIRECTIONS WITHIN THE BOUNDARIES OF THE WALLS AND/OR SOFFITS OF THE SPACE - UNLESS NOTED OTHERWISE.

C. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING PERTINENT WORK.

D. ALL DIMENSIONS ARE SHOWN FROM FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.

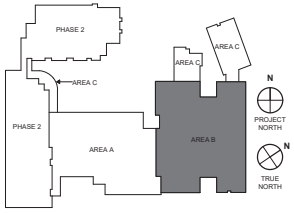
E. ALL EXACT COLORS AND FINISHES SHALL BE AS SPECIFIED OR SELECTED BY ARCHITECT.

CEILING LEGEND

SYMBOL	DESCRIPTION
	ACT: 2' x 2' SUSPENDED ACOUSTIC PANEL CEILING SYSTEM, REFER TO FINISH SCHEDULE FOR ACT TYPES
	GYPSUM BOARD CEILING OVER METAL FRAMING
	1 HOUR FIRE RATED GYPSUM BOARD CEILING
	2 HOUR FIRE RATED GYPSUM BOARD CEILING
O.T.S.	OPEN TO STRUCTURE
S-MA	WINDOW SHADE- MANUAL SHADE TO COVER WINDOW, REFER TO CURTAIN WALL ELEVATIONS
	2x4 LIGHT FIXTURE, RE. ELEC.
	2X2 EXHAUST REGISTER, RE. MECHANICAL.
	2X2 SUPPLY REGISTER, RE. MECHANICAL.
	2X2 RETURN REGISTER, RE. MECHANICAL.

KEYNOTE LEGEND

KEYPLAN



100% DESIGN DEVELOPMENT

FIRST FLOOR RCP- AREA B

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : MMG
CHECKED BY : SKA
REVISIONS :

2022-35

A1.42

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123 S Shelby St, Louisville, KY 40203
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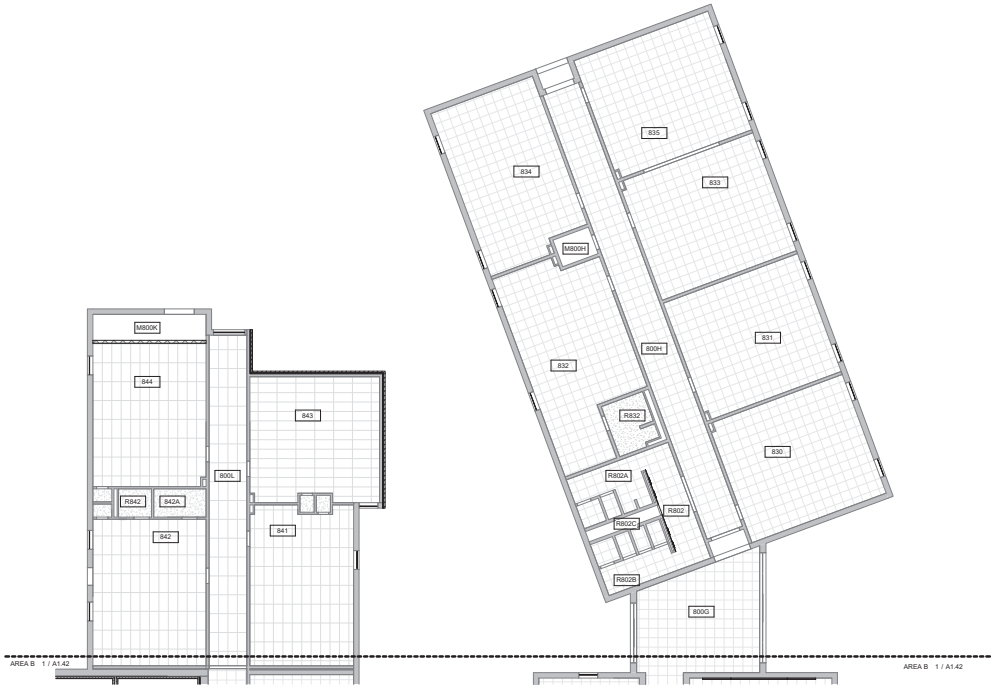
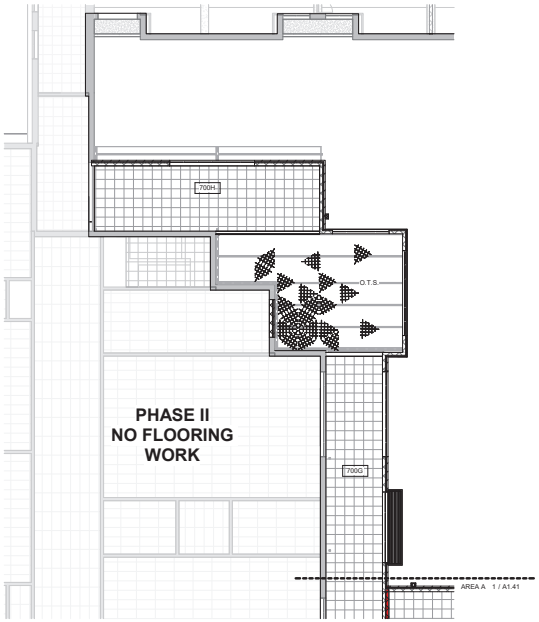
BG MOVING FORWARD



1 FIRST FLOOR RCP- AREA C
3/32" = 1'-0"



2 FIRST FLOOR RCP- AREA C.1
3/32" = 1'-0"

ROOM #	ROOM NAME	CLG HEIGHT (A.F.F)
700G	CORRIDOR	10'-0"
700H	CORRIDOR	O.T.S. / 10'-0"
800G	CORRIDOR LOBBY	EXIST.
800H	CORRIDOR	EXIST.
800K	CORRIDOR	EXIST.
800L	CORRIDOR	EXIST.
828	MATH	EXIST.
829	MATH	EXIST.
830	RESOURCE ELC	EXIST.
831	LAW ENFORCEMENT	EXIST.
832	FFA/AG	EXIST.
833	LAW ENFORCEMENT	EXIST.
834	FFA/AG	EXIST.
835	LAW ENFORCEMENT	EXIST.
840	CLASSROOM	EXIST.
841	EL CAREER PATH	EXIST.
841A	STORAGE	-
842	DAYCARE	EXIST.
842A	STORAGE	EXIST.
842B	STORAGE	EXIST.
843	EL CAREER PATH	EXIST.
843A	STORAGE	-
844	DAYCARE	EXIST.
844A	STORAGE	EXIST.
M800H	ELEC	EXIST.
M800K	MECHANICAL	O.T.S.
R802	RESTROOM- HALL	EXIST.
R802A	RESTROOM- BOYS	EXIST.
R802B	RESTROOM - GIRLS	EXIST.
R832	RR	EXIST.
R842	STORAGE	EXIST.
S700G	JANITOR	10'-0"

GENERAL CEILING NOTES:

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CEILING LEGEND

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S-MA	WINDOW SHADE - MANUAL SHADE TO COVER WINDOW, REFER TO CURTAIN WALL ELEVATIONS
	2x4 LIGHT FIXTURE, RE. ELEC.
	2X2 EXHAUST REGISTER, RE. MECHANICAL.
	2X2 SUPPLY REGISTER, RE. MECHANICAL.
	2X2 RETURN REGISTER, RE. MECHANICAL.

KEYNOTE LEGEND

KEYPLAN

100% DESIGN DEVELOPMENT

FIRST FLOOR RCP- AREA C

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : MMG
CHECKED BY : SKA
REVISIONS :

2022-35

A1.43

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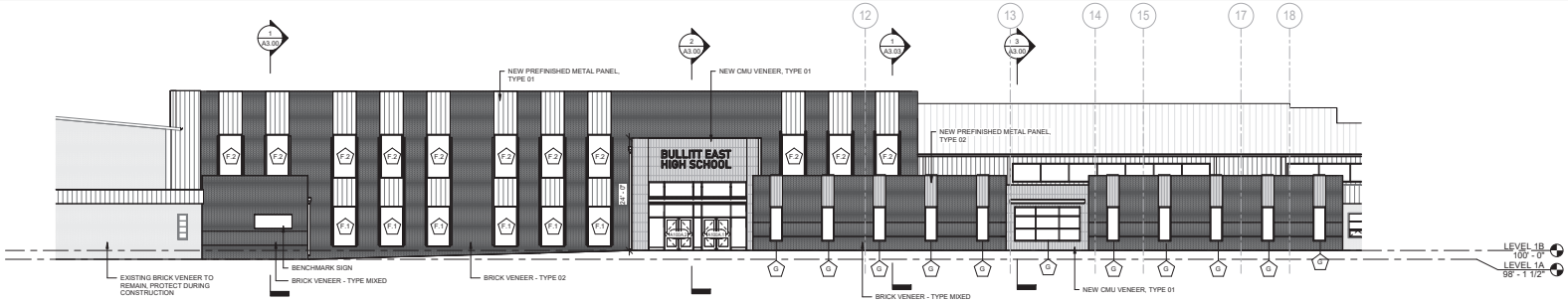
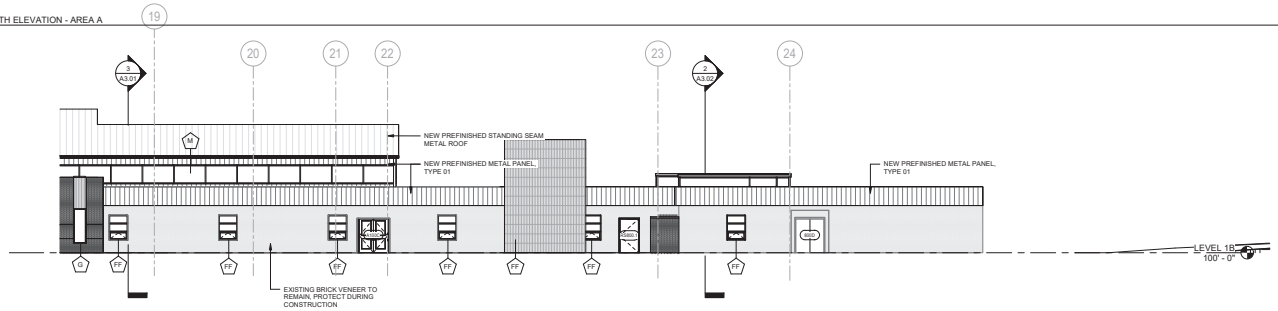
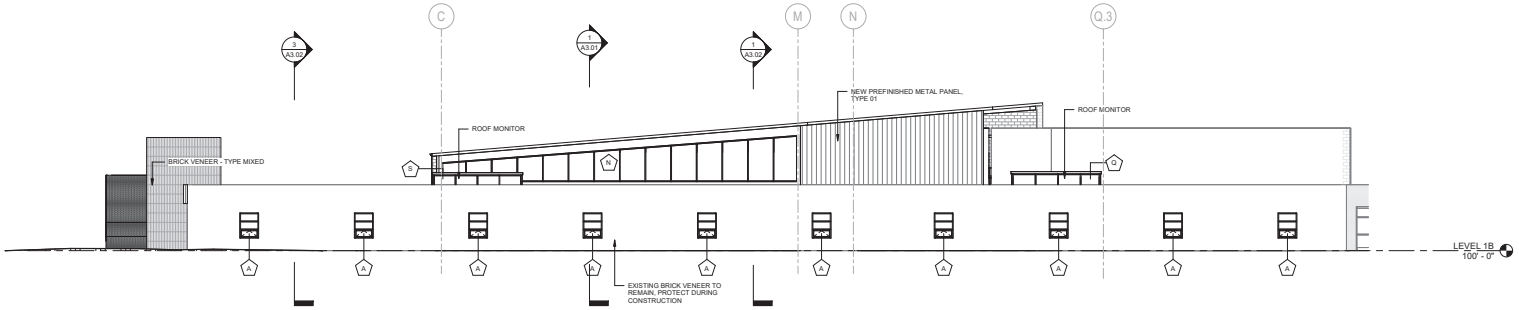


1 PHASE 1- SOUTH ELEVATION - AREA A
3/32" = 1'-0"

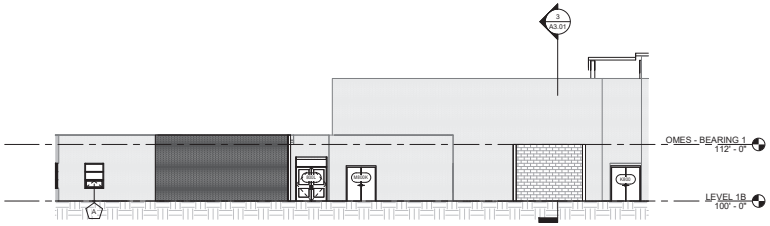


2 PHASE 1- SOUTH ELEVATION- AREA B
3/32" = 1'-0"



3 PHASE 1- EAST ELEVATION- AREA B
3/32" = 1'-0"

4 PHASE 1- EAST ELEVATION- AREA C
3/32" = 1'-0"



5 PHASE 1 - NORTH ELEVATION - AREA C
3/32" = 1'-0"

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BG MOVING FORWARD

EXTERIOR ELEVATIONS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : MMG
CHECKED BY : SKA
REVISIONS :

2022-35

A2.00

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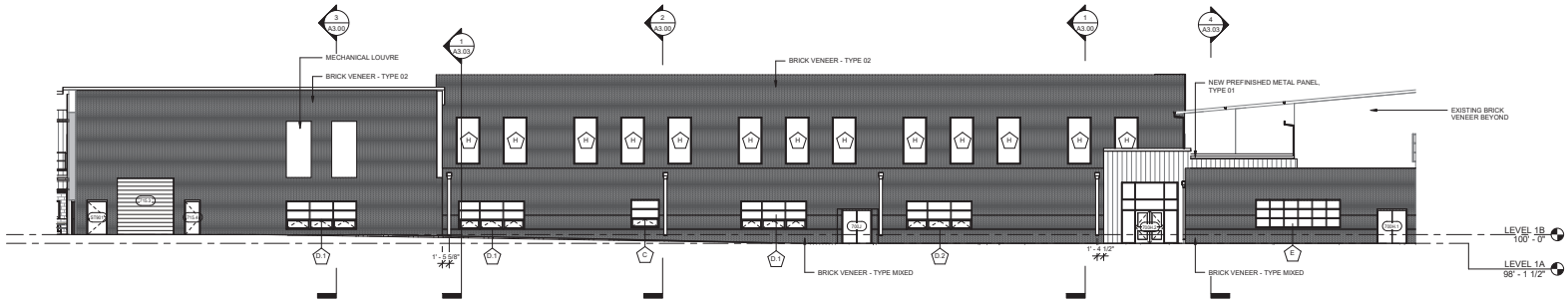
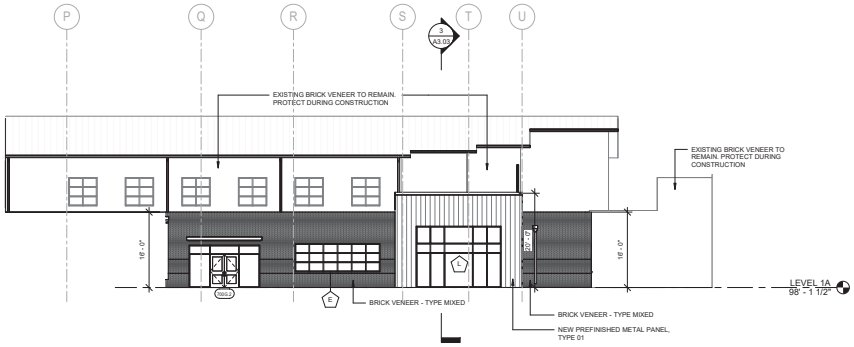
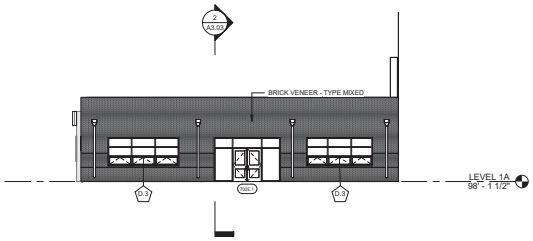


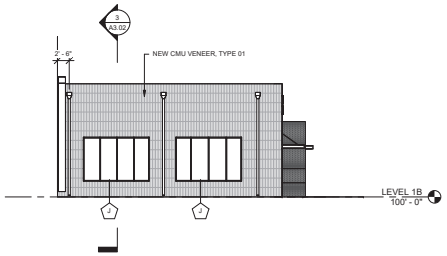
1 PHASE 1- NORTH ELEVATION
3/32" = 1'-0"



2 PHASE 1- CONNECTION CORRIDOR ELEVATION
3/32" = 1'-0"



3 PHASE 1- BOOKSTORE ELEVATION
3/32" = 1'-0"



5 PHASE 1- SIDE ENTRANCE ELEVATION
3/32" = 1'-0"

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EXTERIOR ELEVATIONS

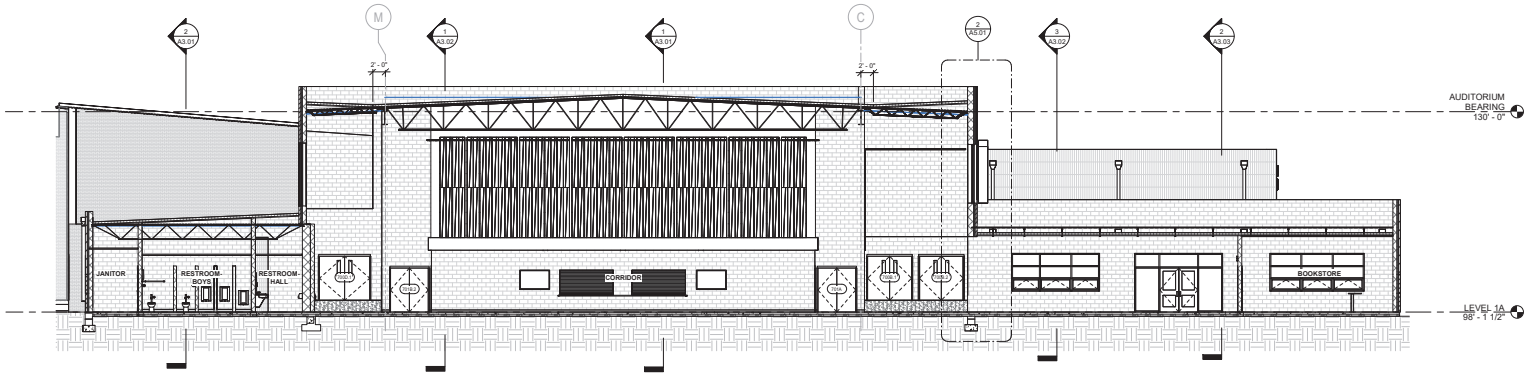
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

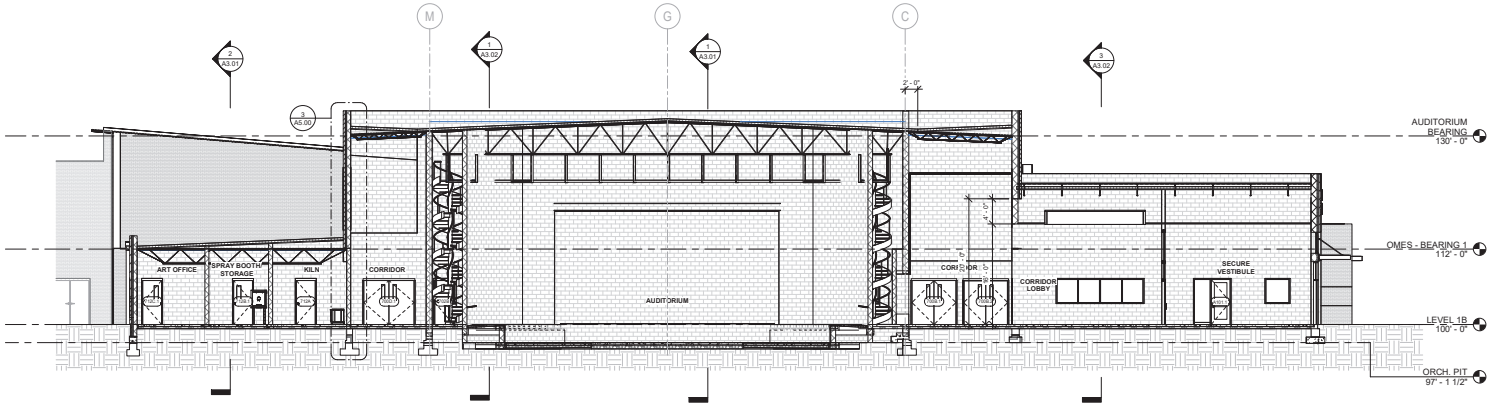
DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

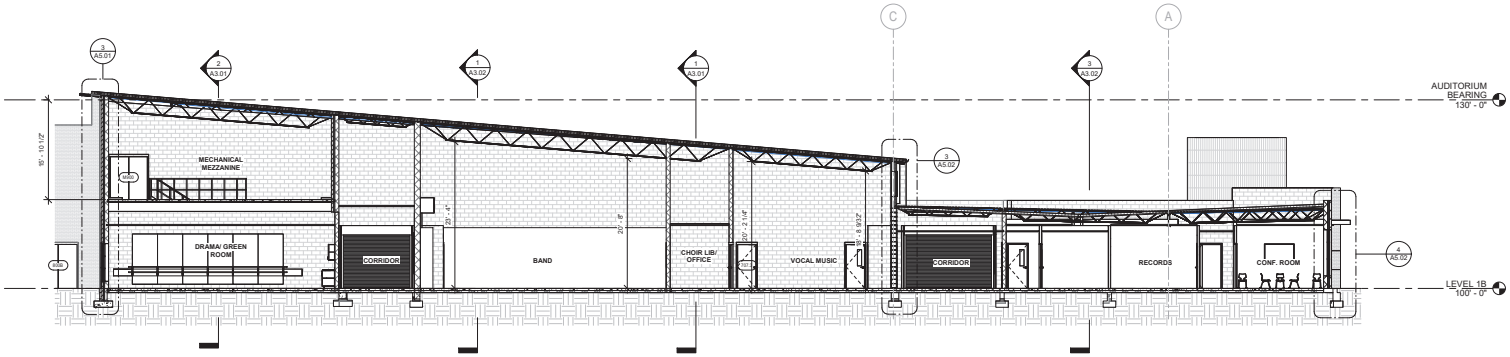
A2.01



1 BUILDING SECTION - ADDITION @ TICKET BOOTH
1/8" = 1'-0"



2 BUILDING SECTION - ADDITION @ ENTRY VESTIBULE
1/8" = 1'-0"



3 BUILDING SECTION - ADDITION @ MUSIC ROOMS
1/8" = 1'-0"

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123 S Shelby St, Louisville, KY 40203
(o) 502-583-1110 (f) 502-583-1101

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REVISIONS :

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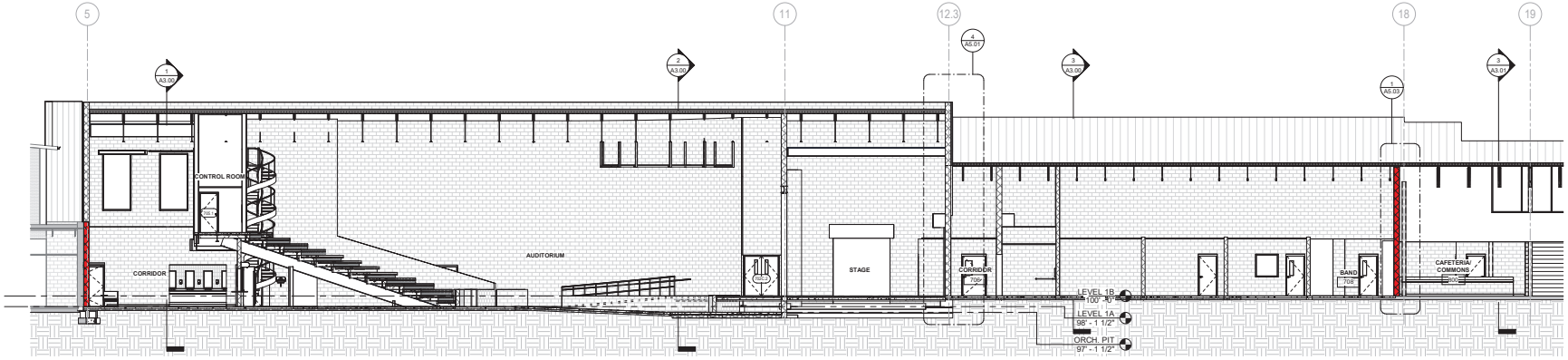
A3.00

100% DESIGN DEVELOPMENT

BUILDING SECTIONS

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047



1 BUILDING SECTION - ADDITION @ AUDITORIUM
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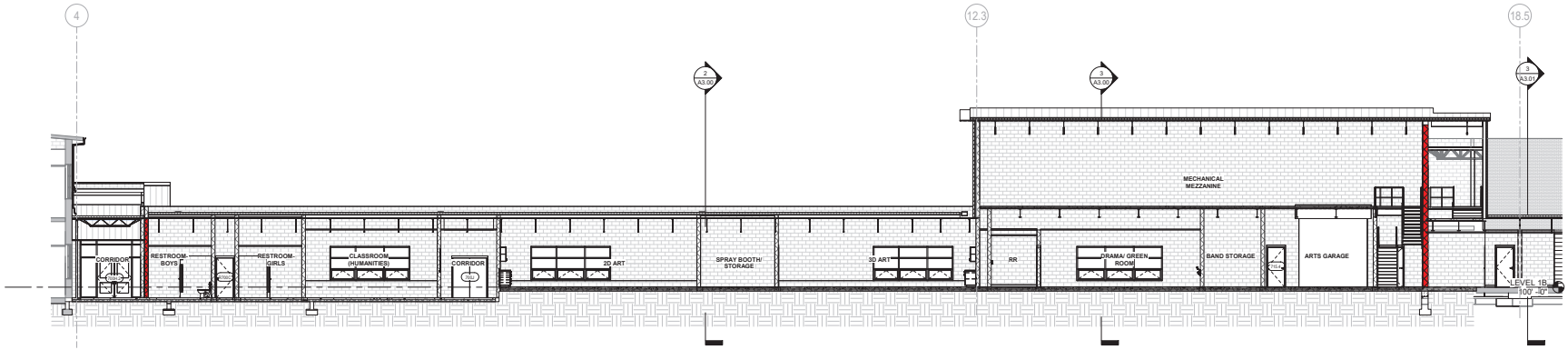
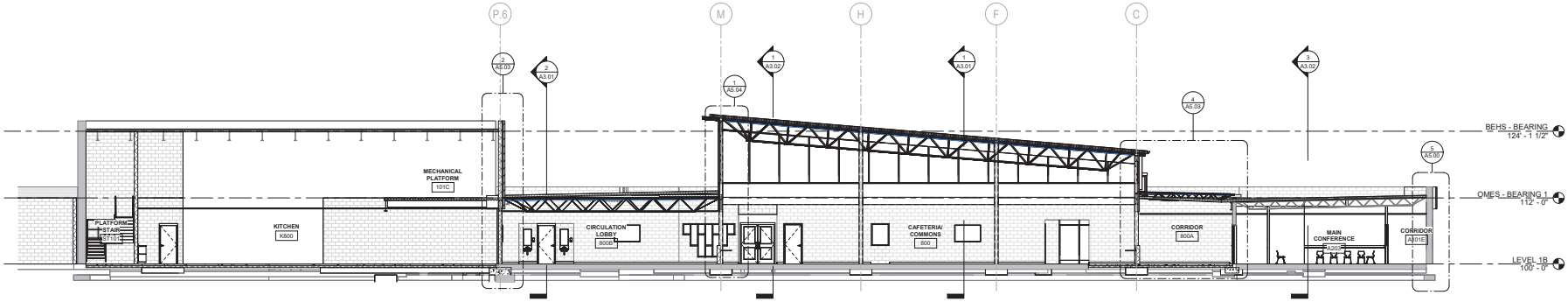


2 BUILDING SECTION - ADDITION @ ARTS CLASSROOMS
1/8" = 1'-0"



3 BUILDING SECTION - ADDITION @ NEW CAFETERIA
1/8" = 1'-0"

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studio kremer architects
1231 E Gravely St, Louisville, KY 40203
t 502-493-1010 f 502-493-1011

BUILDING SECTIONS

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050
DATE : 07/24/2023
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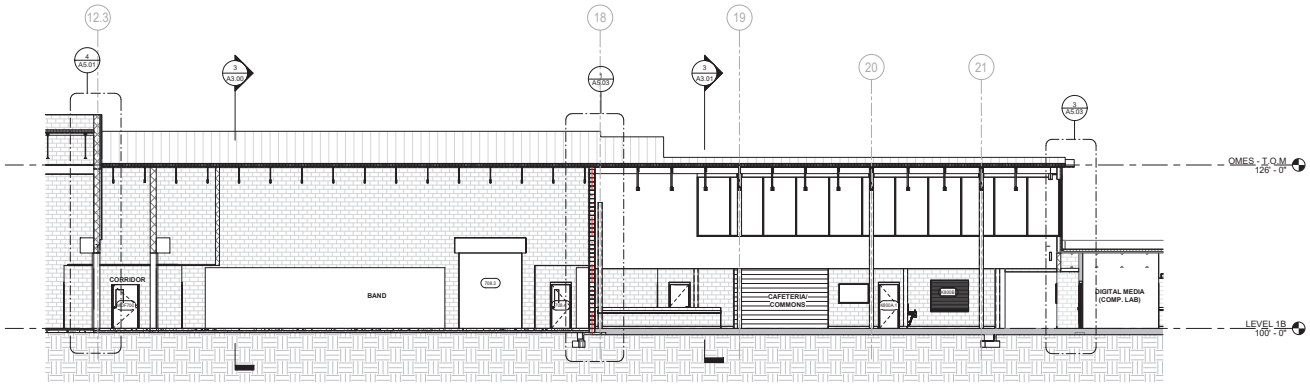
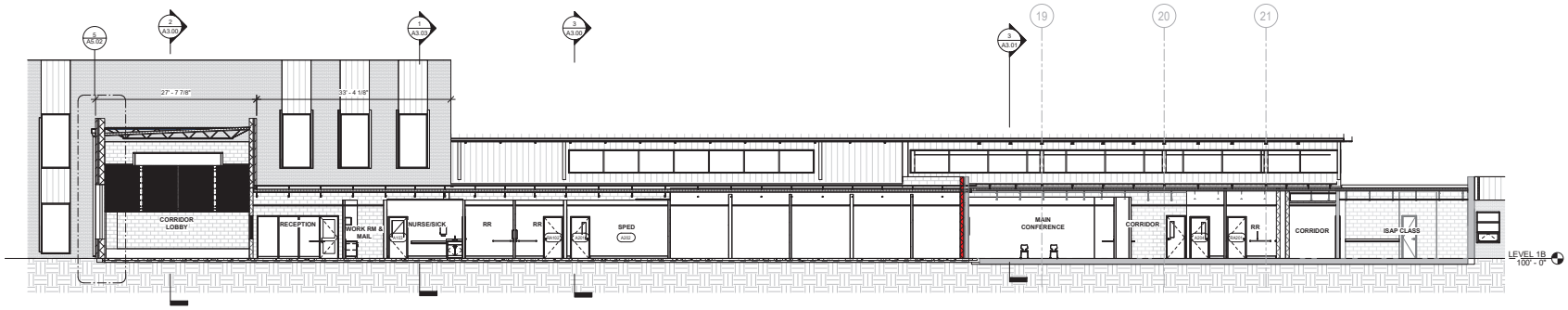
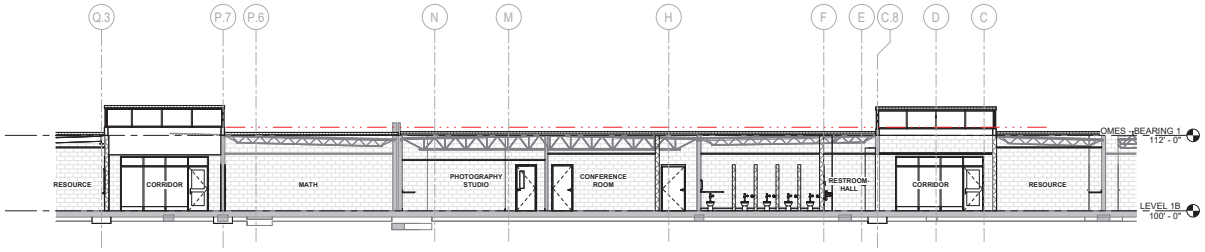
A3.01



1 BUILDING SECTION - ADDITION @ BAND ROOM
1/8" = 1'-0"



3 BUILDING SECTION - ADMIN SUITE
1/8" = 1'-0"



2 BUILDIGN SECTION - ROOF MONITOR
1/8" = 1'-0"

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123 E Gray St, Louisville, KY 40203
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BUILDING SECTIONS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

DATE : 07/24/2023
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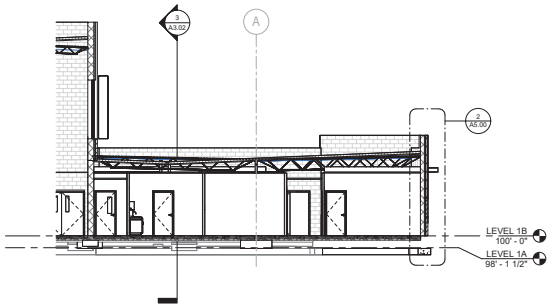
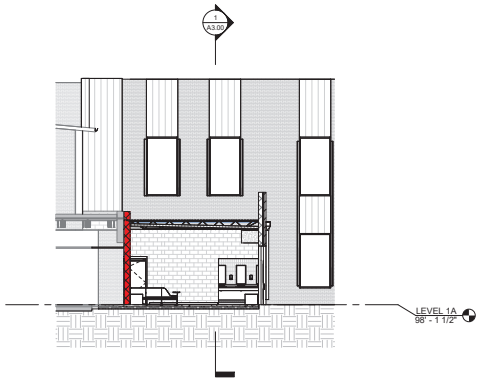
A3.02

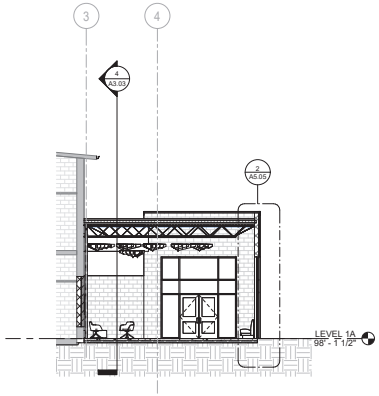
100% DESIGN DEVELOPMENT



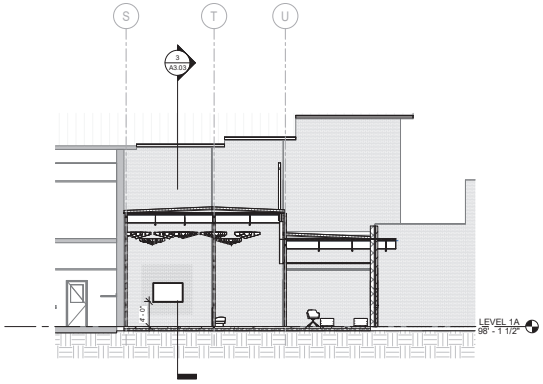
1 BUILDING SECTION - ADMIN
1/8" = 1'-0"



2 BUILDING SECTION - BOOKSTORE
1/8" = 1'-0"



3 BUILDING SECTION - FLEX LEARNING
1/8" = 1'-0"



4 BUILDING SECTION - FLEX CLASSROOM
1/8" = 1'-0"

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123 S Shelby St, Louisville, KY 40203
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100% DESIGN DEVELOPMENT

BUILDING SECTIONS

Bullitt East High School – Fine Arts Addition
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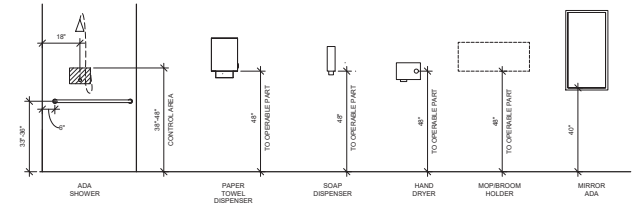
REVISIONS :

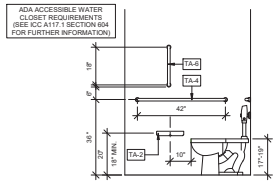
2022-35

A3.03

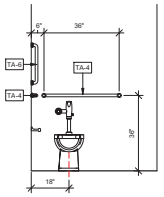
TYPICAL ADA DETAILS



TYPICAL ACCESSORY DIMENSIONS
1/2" = 1'-0"

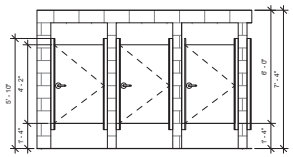


6 TYPICAL ADA WATER CLOSET - SIDE
1/2" = 1'-0"

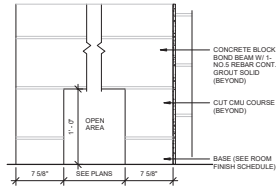


5 TYPICAL ADA WATER CLOSET - FRONT
1/2" = 1'-0"

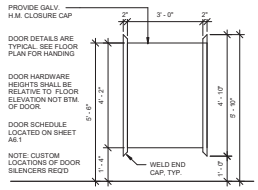
CMU TOILET PARTITION DETAILS



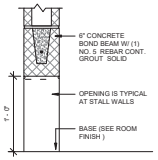
2 PARTIAL ELEVATION - CMU STALL, TYPICAL
3/8" = 1'-0"



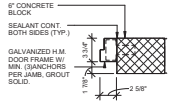
12 DETAIL - RESTROOM STALL OPENING
1 1/2" = 1'-0"



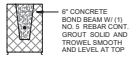
4 DETAIL - RESTROOM STALL DOOR
1/2" = 1'-0"



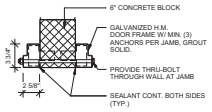
13 DETAIL - RESTROOM STALL SECTION
1 1/2" = 1'-0"



11 DETAIL - RESTROOM STALL JAMB
1 1/2" = 1'-0"



10 DETAIL - RESTROOM STALL HEAD
1 1/2" = 1'-0"



3 DETAIL - RESTROOM DOUBLE STALL JAMB
1 1/2" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN, MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY.	BOBRICK / B274 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-8806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-8806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-8806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-8806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-E-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

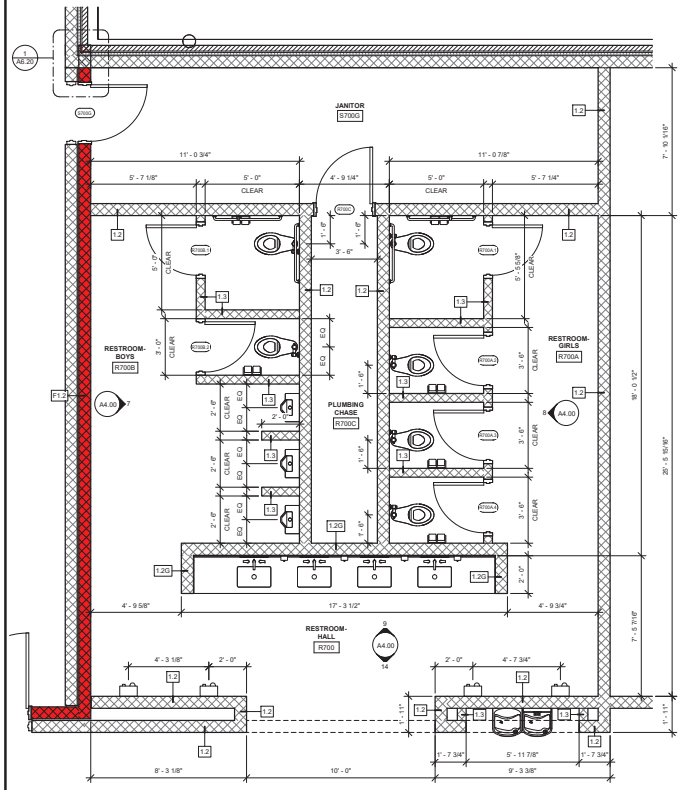
TOILET ACCESSORY NOTES:

A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

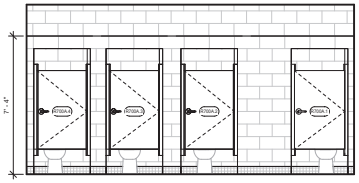
B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

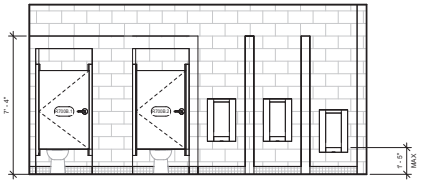
KEYNOTE LEGEND



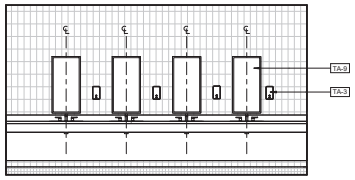
1 ENLARGED PLAN - THEATER RESTROOMS
3/8" = 1'-0"



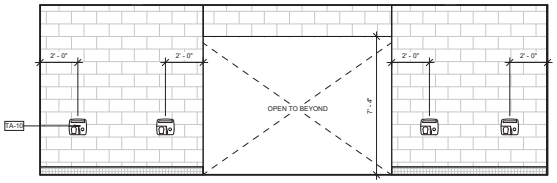
8 INT. ELEV.- RESTROOM GIRLS- WEST
3/8" = 1'-0"



7 INT. ELEV.- RESTROOM BOYS- EAST
3/8" = 1'-0"



9 INT. ELEV- RESTROOM HALL- NORTH
3/8" = 1'-0"



14 INT. ELEV- RESTROOM HALL- SOUTH
3/8" = 1'-0"

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100% DESIGN DEVELOPMENT

ENLARGED PLANS & INT. ELEV. – RESTROOMS

Bullitt East High School – Fine Arts Addition

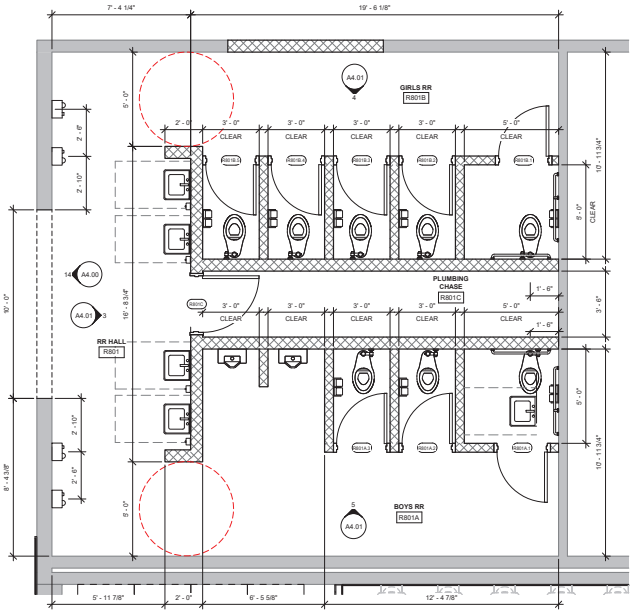
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

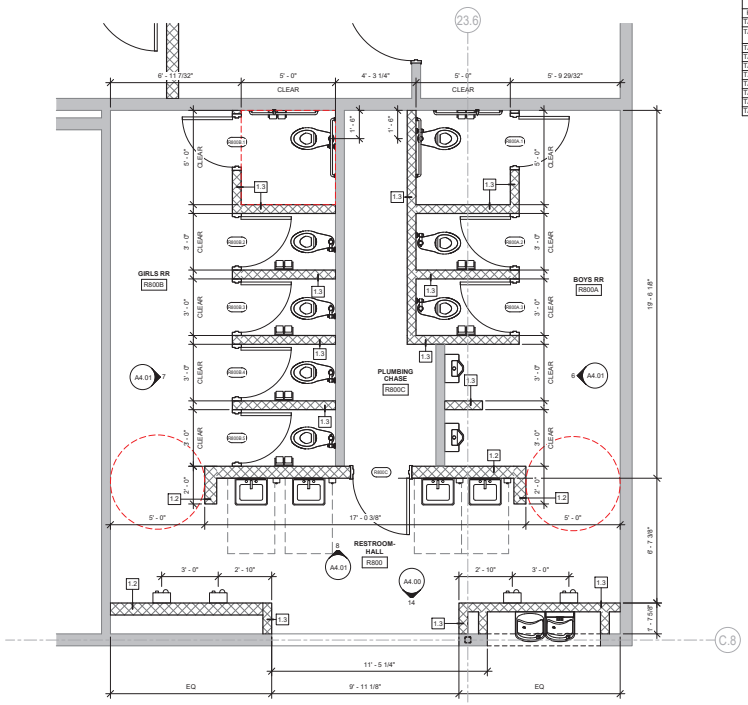
DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

A4.00



1 ENLARGED PLAN- GIRLS RR R801B & BOYS RR R801A
3/8" = 1'-0"



2 ENLARGED PLAN- GIRLS RR R800B & BOYS RR R800A
3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN, MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY	BOBRICK / B274 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-6806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-6806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-6806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-6806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

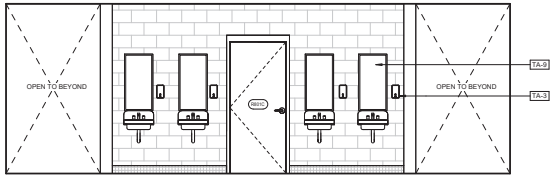
TOILET ACCESSORY NOTES:

A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

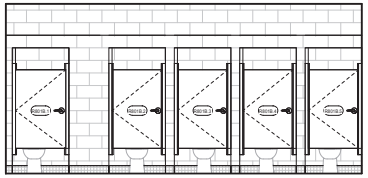
B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

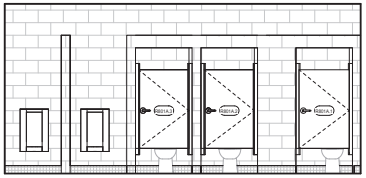
KEYNOTE LEGEND



3 INT. ELEV.- RR HALL R801- EAST
3/8" = 1'-0"

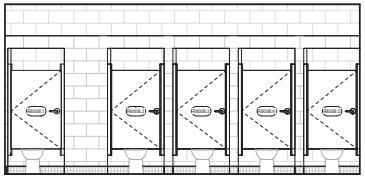


4 INT. ELEV.- GIRL RR R801B
3/8" = 1'-0"

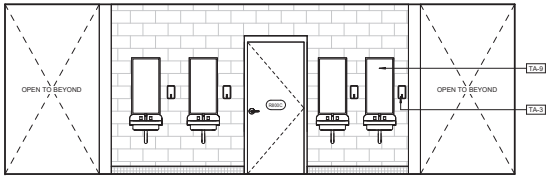


5 INT. ELEV.- BOYS RR R801A
3/8" = 1'-0"

6 INT. ELEV.- BOYS RR R800A
3/8" = 1'-0"



7 INT. ELEV.- GIRLS RR R800B
3/8" = 1'-0"



8 INT. ELEV.- RESTROOM HALL R800- NORTH
3/8" = 1'-0"

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100% DESIGN DEVELOPMENT

ENLARGED PLANS & INT. ELEV. – RESTROOMS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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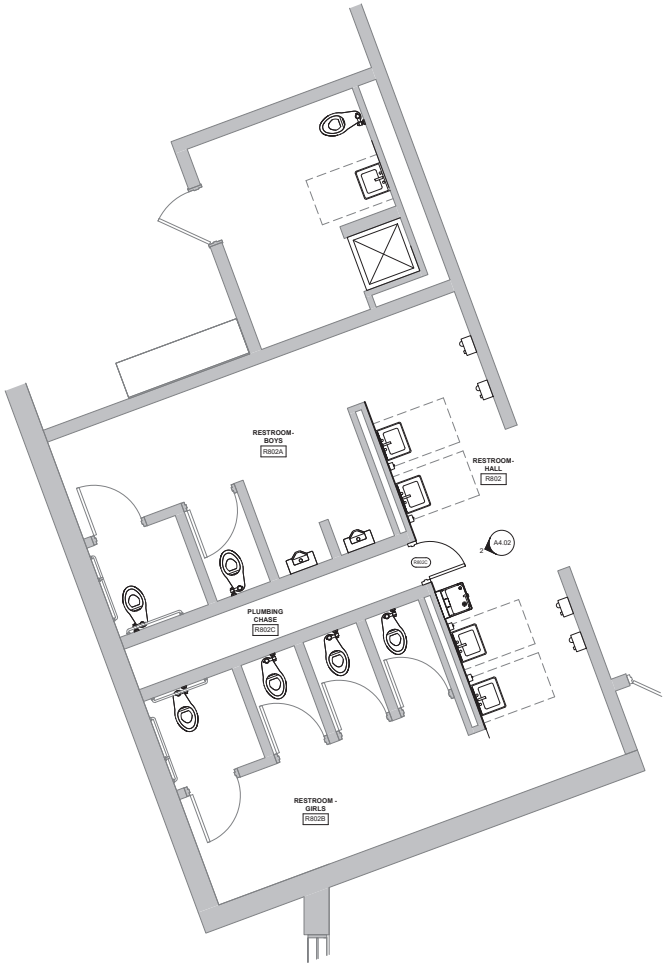
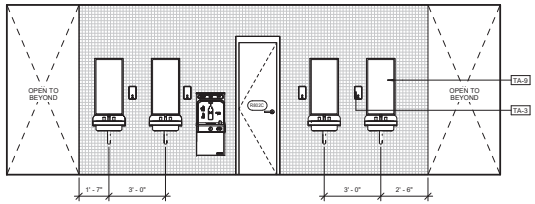
A4.01



1 ENLARGED PLAN- GIRLS RR R802B & BOYS RR 802A
3/8" = 1'-0"



2 INT. ELEV - RESTROOM HALL R802
3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN. MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY	BOBRICK / B274 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-6806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-6806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-6806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-6806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-E-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

TOILET ACCESSORY NOTES:

A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

KEYNOTE LEGEND

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ENLARGED PLANS & INT. ELEV. – RESTROOMS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

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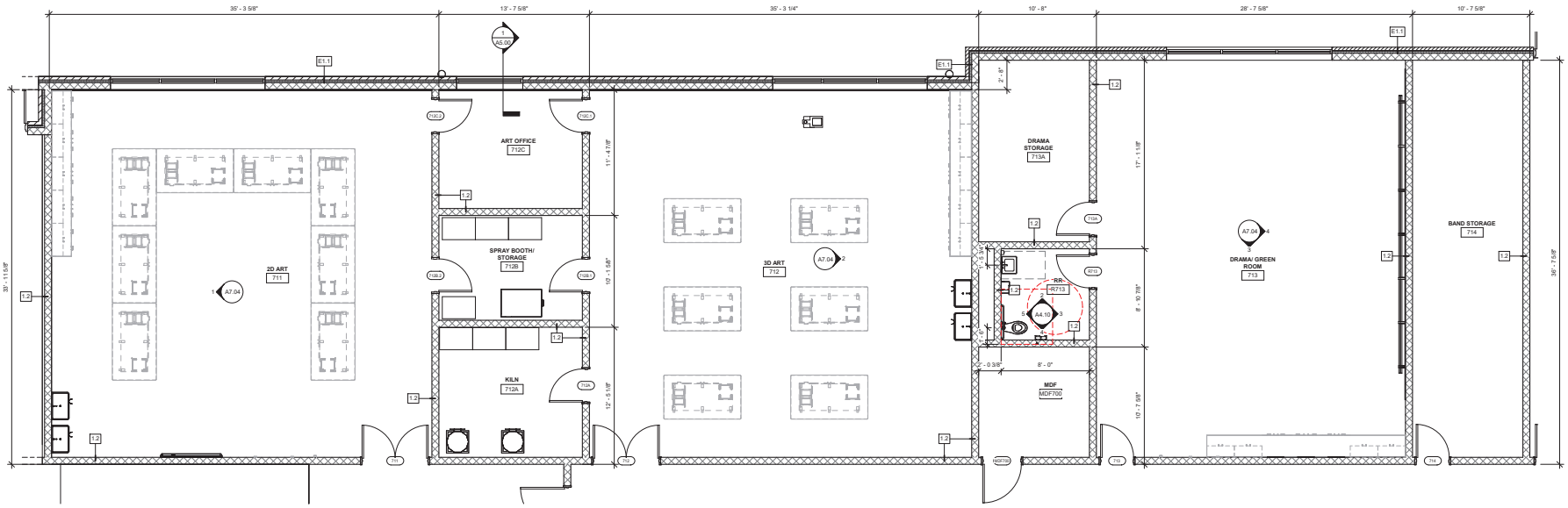
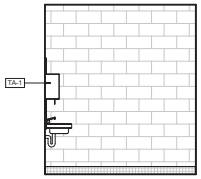
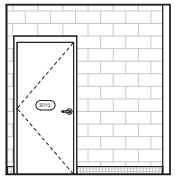
A4.02



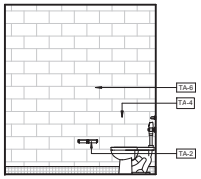
1 ENLARGED PLAN - ARTS CLASSROOMS
1/4" = 1'-0"



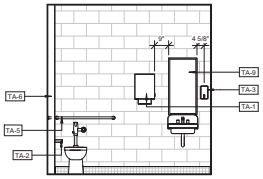
2 INT. ELEV.- RR R713- NORTH
3/8" = 1'-0"



3 INT. ELEV.- RR R713- EAST
3/8" = 1'-0"



4 INT. ELEV.- RR R713- SOUTH
3/8" = 1'-0"



5 INT. ELEV.- RR R713- WEST
3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN: MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY	BOBRICK / B274 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-6806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-6806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-6806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-6806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-E-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

TOILET ACCESSORY NOTES:

A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

KEYNOTE LEGEND

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studio

BG MOVING FORWARD

100% DESIGN DEVELOPMENT

ENLARGED PLANS – FINE ARTS CLASSROOMS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : SS
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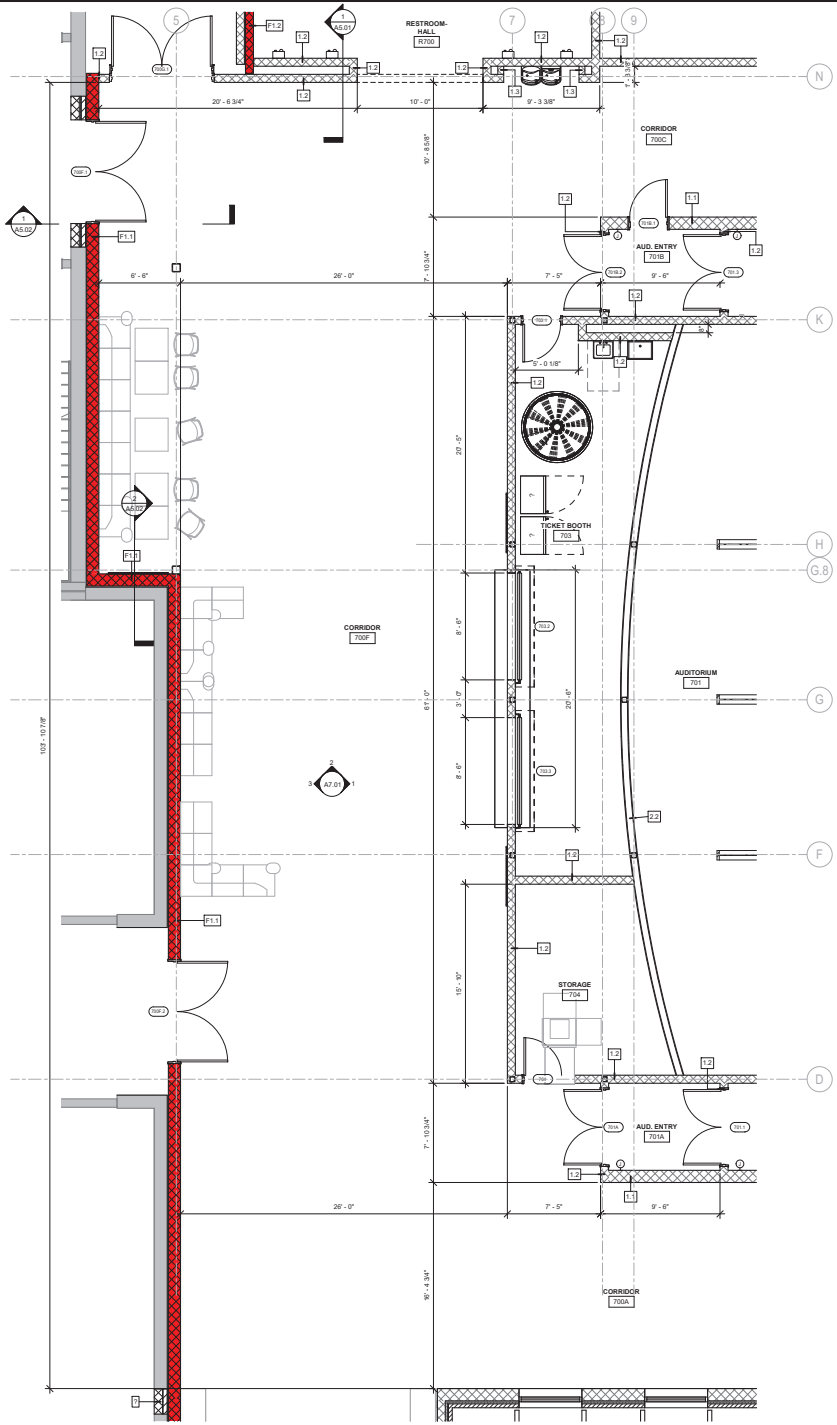
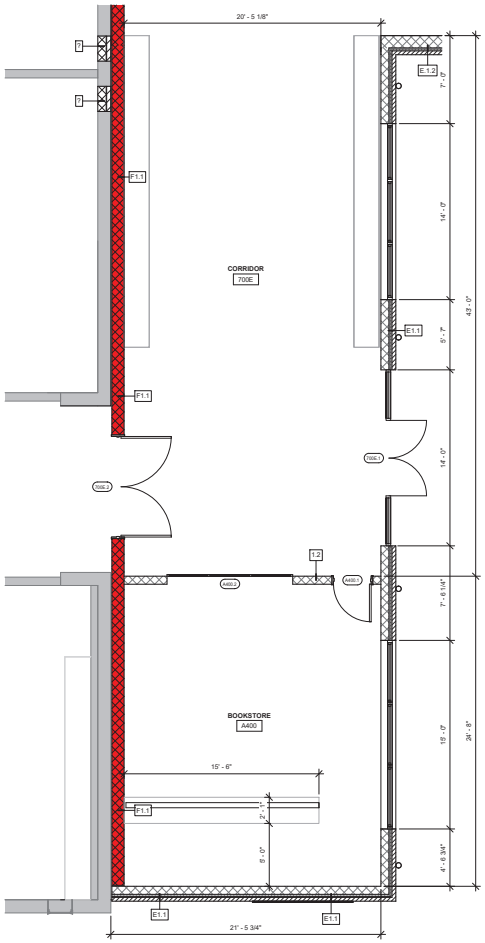
REVISIONS :

2022-35

A4.10



1 ENLARGED PLAN - AUDITORIUM LOBBY
1/4" = 1'-0"



2 ENLARGED PLAN - BOOKSTORE & CORRIDOR
1/4" = 1'-0"

KEYNOTE LEGEND

studio kremer architects
123 E Gray St, Louisville, KY 40203
(502) 581-9100 FAX (502) 581-9101

BG MOVING FORWARD

100% DESIGN DEVELOPMENT

ENLARGED PLANS – AUDITORIUM LOBBY

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

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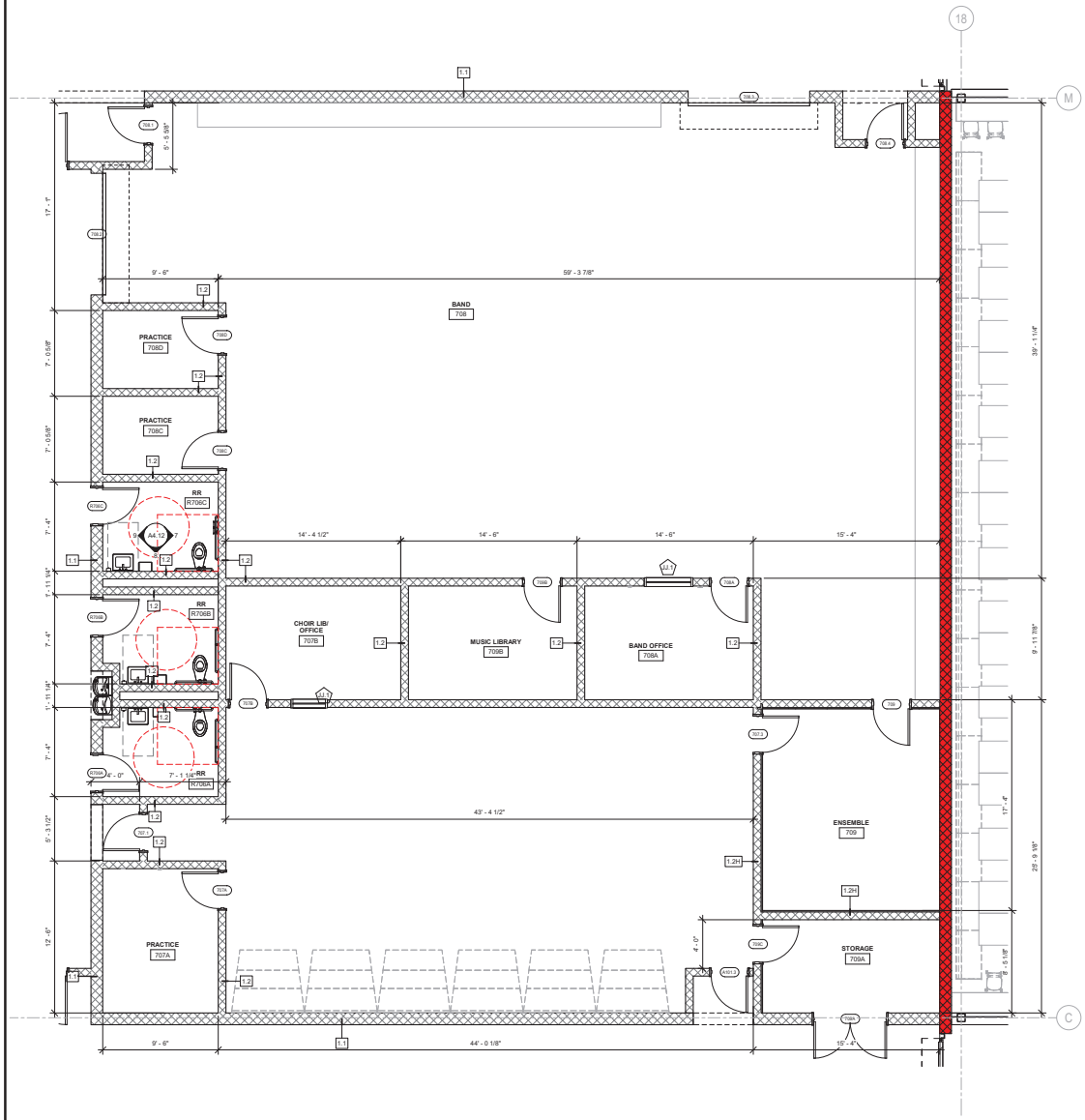
A4.11



5 ENLARGED PLAN - BAND & VOCAL MUSIC
1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN, MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY	BOBRICK / B274 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-6806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-6806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-6806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-6806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-E-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

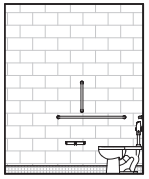
TOILET ACCESSORY NOTES:

A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

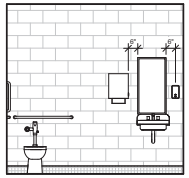
B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

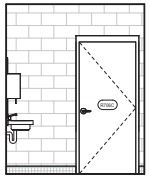
KEYNOTE LEGEND



7 INT. ELEV.- RR R706C- EAST
3/8" = 1'-0"



8 INT. ELEV.- RR R706C- SOUTH
3/8" = 1'-0"



9 INT. ELEV.- RR R706C- WEST
3/8" = 1'-0"

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100% DESIGN DEVELOPMENT

ENLARGED PLANS - BAND AND VOCAL MUSIC

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
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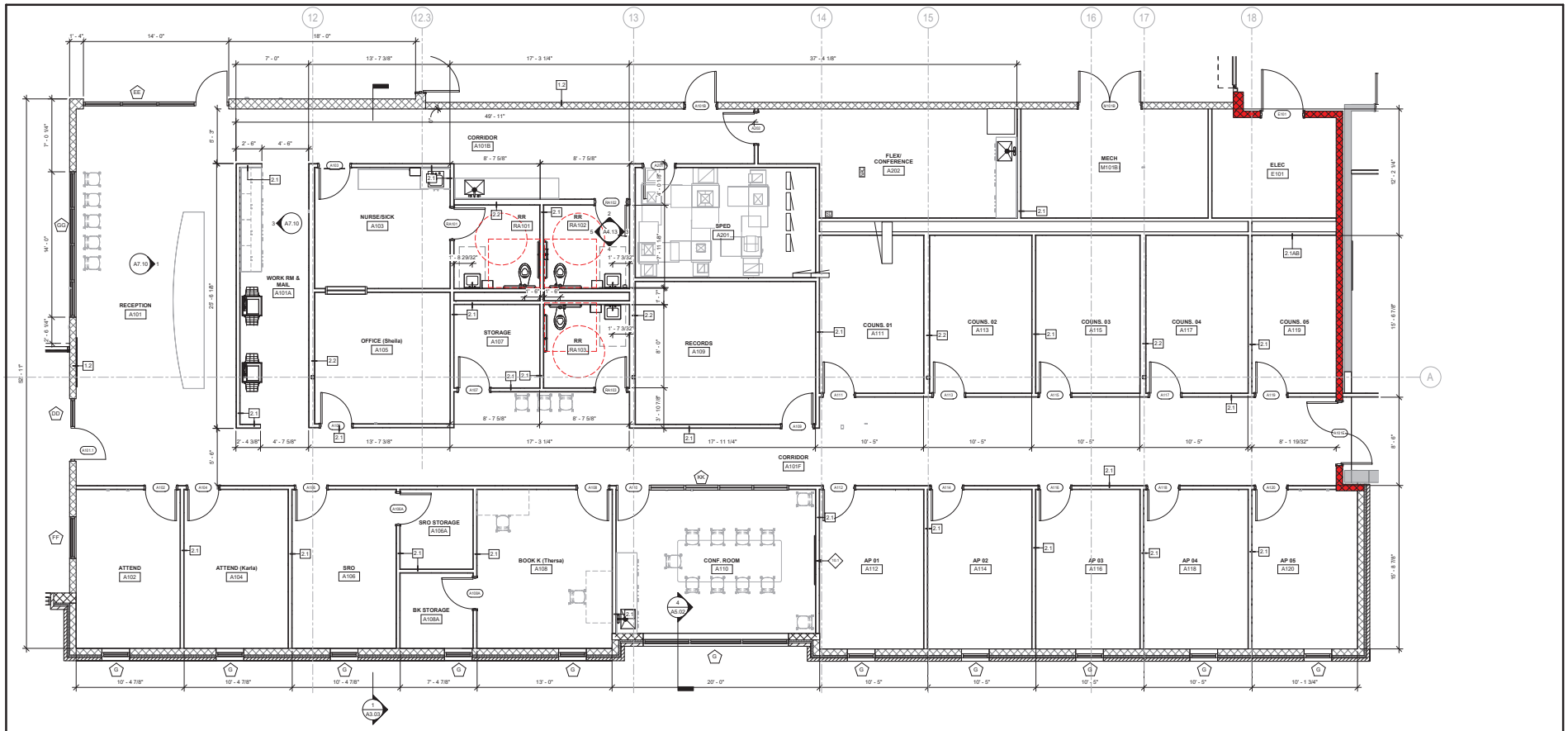
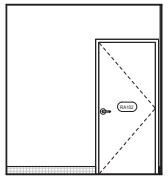
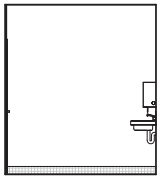
A4.12



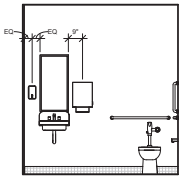
1 ENLARGED PLAN- ADMIN SUITE- AREA A
1/4" = 1'-0"



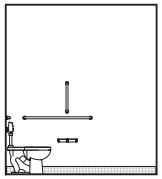
2 INT. ELEV- RA102- NORTH
3/8" = 1'-0"



3 INT. ELEV- RA102- EAST
3/8" = 1'-0"



4 INT. ELEV- RA102- SOUTH
3/8" = 1'-0"



5 INT. ELEV- RA102- WEST
3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN: MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY	BOBRICK / B2747 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-6806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-6806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-6806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-6806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

TOILET ACCESSORY NOTES:

A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

KEYNOTE LEGEND

10.1	NOT USED.

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MOVING FORWARD

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ENLARGED PLANS – ADMIN SUITE– AREA A

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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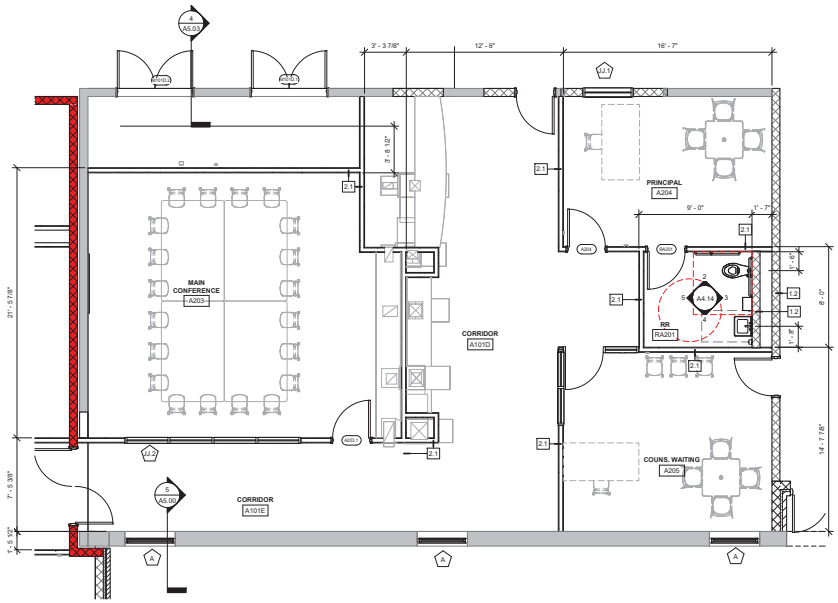
A4.13



1 ENLARGED PLAN- ADMIN SUITE- AREA B
1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

KEY TAG	DESCRIPTION	BASIS OF DESIGN: MANUFACTURER / MODEL / COLOR
TA-1	PAPER TOWEL (FOLDED) DISPENSER	BOBRICK / B-2860 / STAINLESS STEEL - SATIN
TA-2	DOUBLE ROLL TOILET TISSUE DISPENSER WITH CONTROLLED DELIVERY	BOBRICK / B274 / STAINLESS STEEL - SATIN
TA-3	FOAM SOAP DISPENSER	IMPACT / FOAM-EEZE 9326 / BLACK/GRAY
TA-4	42" GRAB BAR	BOBRICK / B-6806X42 / STAINLESS STEEL - SATIN
TA-5	36" GRAB BAR	BOBRICK / B-6806X36 / STAINLESS STEEL - SATIN
TA-6	18" VERTICAL GRAB BAR	BOBRICK / B-6806X18 / STAINLESS STEEL - SATIN
TA-7	24" GRAB BAR	BOBRICK / B-6806X24 / STAINLESS STEEL - SATIN
TA-8	MOP AND BROOM HOLDER WITH SHELF AND HOOKS	BOBRICK / B-B-239X34 / STAINLESS STEEL - SATIN
TA-9	18" X 36" FRAMED MIRROR	BOBRICK / B-290 / STAINLESS STEEL - SATIN
TA-10	ELECTRIC HAND DRYER	BRADLEY / 2904-28 / WHITE PORCELAIN ENAMELED

TOILET ACCESSORY NOTES:

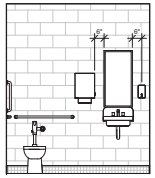
A. SEE DIVISION 10 SECTION "RESTROOM ACCESSORIES."

B. MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE.

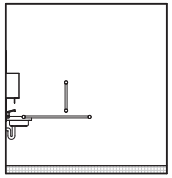
C. REFER TO SHEET A4.00 FOR CMU TOILET PARTITION DETAILS.

KEYNOTE LEGEND

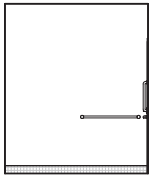
2 INT. ELEV.- RR 89- NORTH
3/8" = 1'-0"



3 INT. ELEV.- RR 89- EAST
3/8" = 1'-0"



4 INT. ELEV.- RR 89- SOUTH
3/8" = 1'-0"



5 INT. ELEV.- RR 89- WEST
3/8" = 1'-0"

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100% DESIGN DEVELOPMENT

ENLARGED PLANS- ADMIN SUITE- AREA B

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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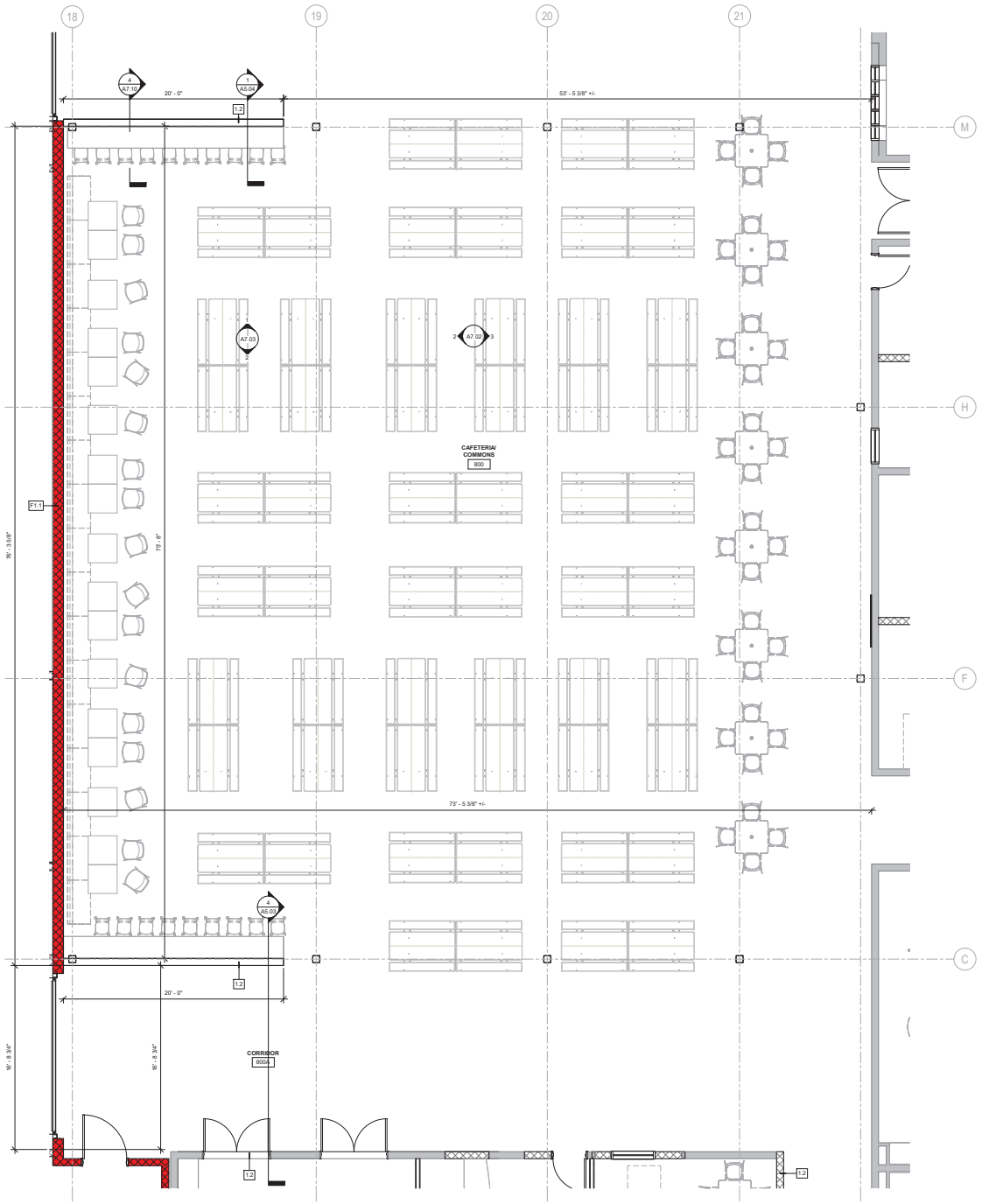
A4.14



1 ENLARGED PLAN - CAFETERIA/COMMONS
1/4" = 1'-0"

KEYNOTE LEGEND

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BG MOVING FORWARD

ENLARGED PLANS - CAFETERIA COMMONS

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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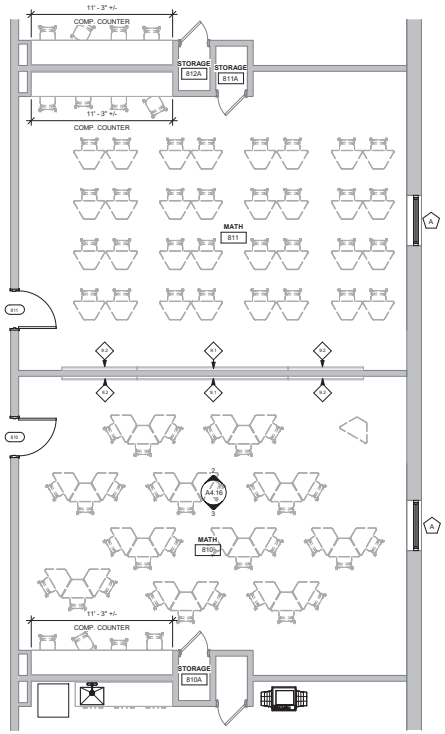
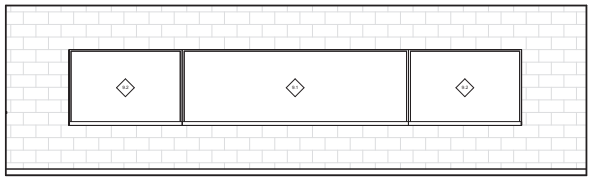
A4.15

100% DESIGN DEVELOPMENT

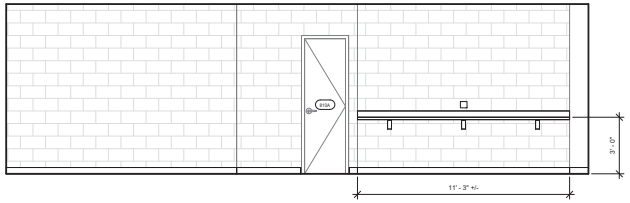
KEYNOTE LEGEND	
9.1	4' x 10' MARKERBOARD
9.2	4' x 8' TACKBOARD



1 ENLARGED PLAN- TYPICAL CLASSROOMS
1/4" = 1'-0"



2 INT. ELEV. - TEACHING WALL, TYP.
3/8" = 1'-0"



3 INT. ELEV. - COMPUTER COUNTER, TYP.
3/8" = 1'-0"

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ENLARGED PLAN – TYPICAL CLASSROOMS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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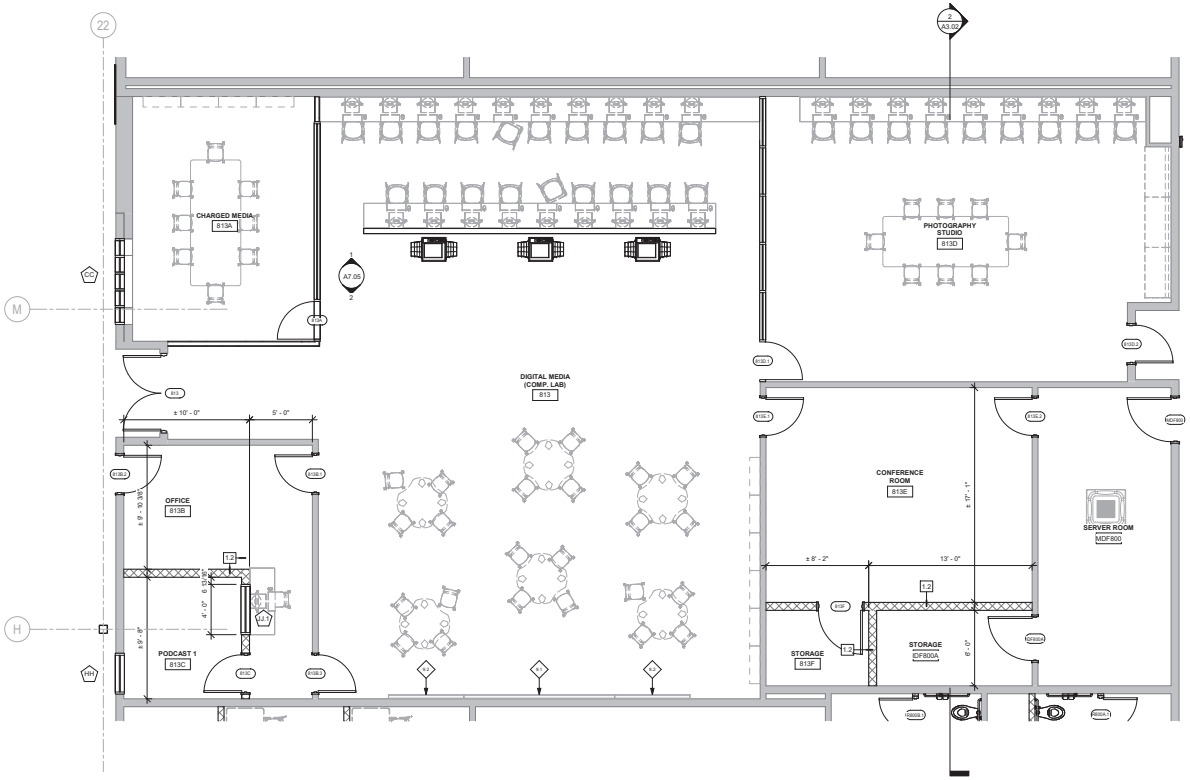
A4.16



1 ENLARGED PLAN- MEDIA CENTER
1/4" = 1'-0"

KEYNOTE LEGEND

9.1	4' x 10' MARKERBOARD
9.2	4' x 8' TACKBOARD

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BG MOVING FORWARD

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ENLARGED PLAN- DIGITAL MEDIA

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

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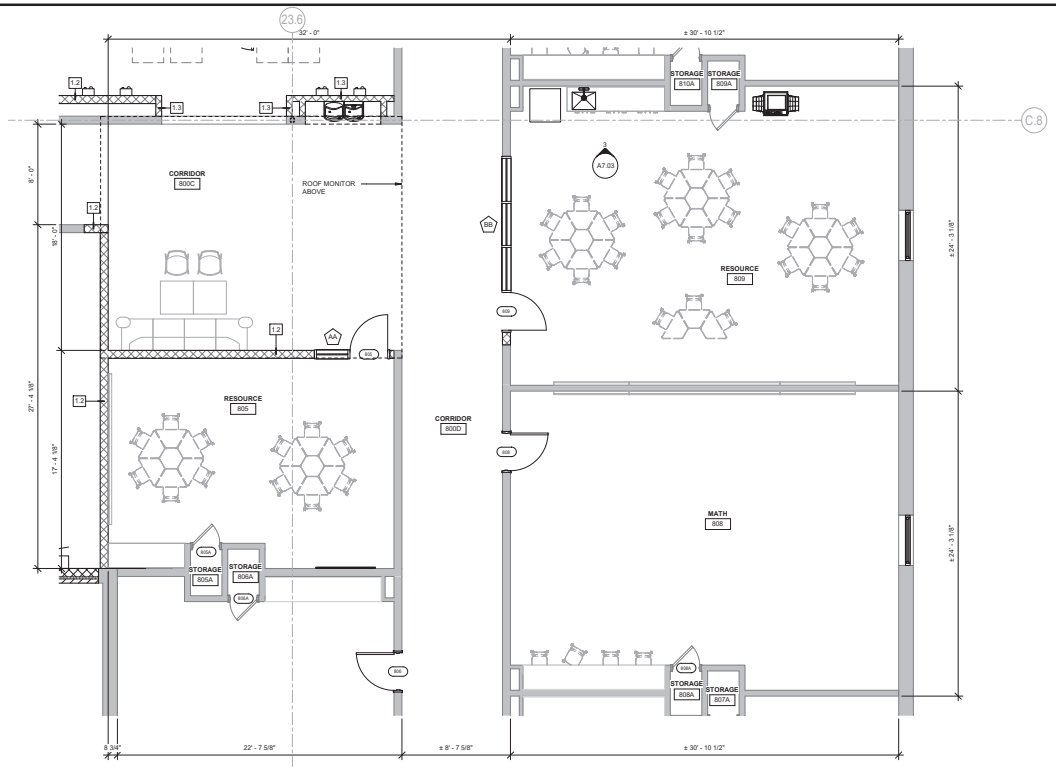
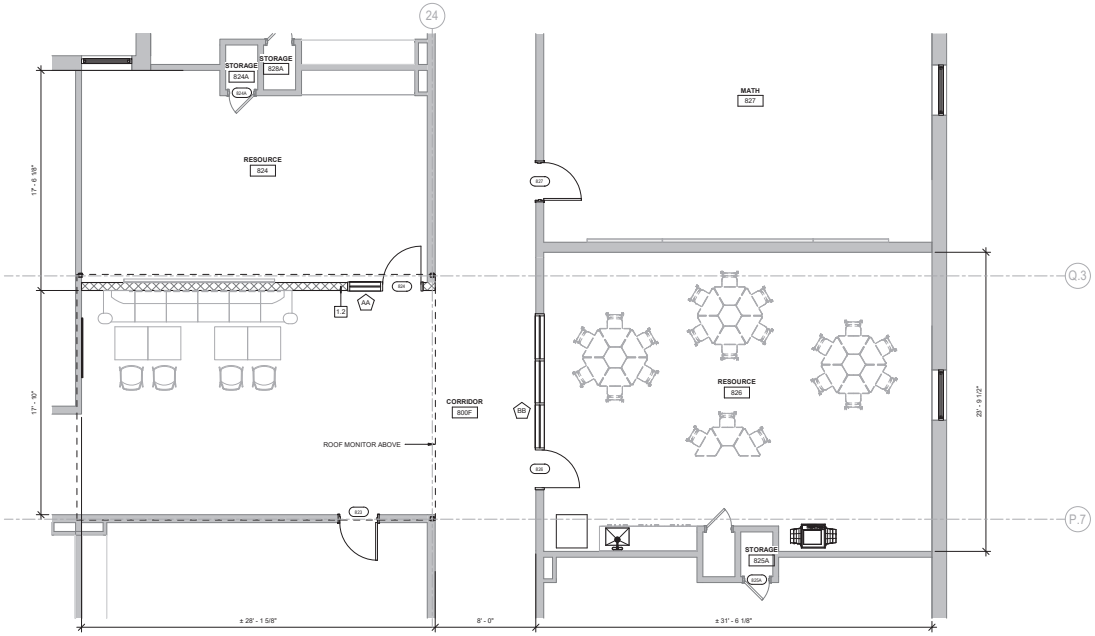
A4.17

KEYNOTE LEGEND



1 ENLARGED PLAN - RESOURCE & TYP. CLASSROOM
1/4" = 1'-0"



2 ENLARGED PLAN- RESOURCE & FLEX AREA
1/4" = 1'-0"

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1231 E Broadway St, Louisville, KY 40203
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ENLARGED PLANS – FLEX AREAS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

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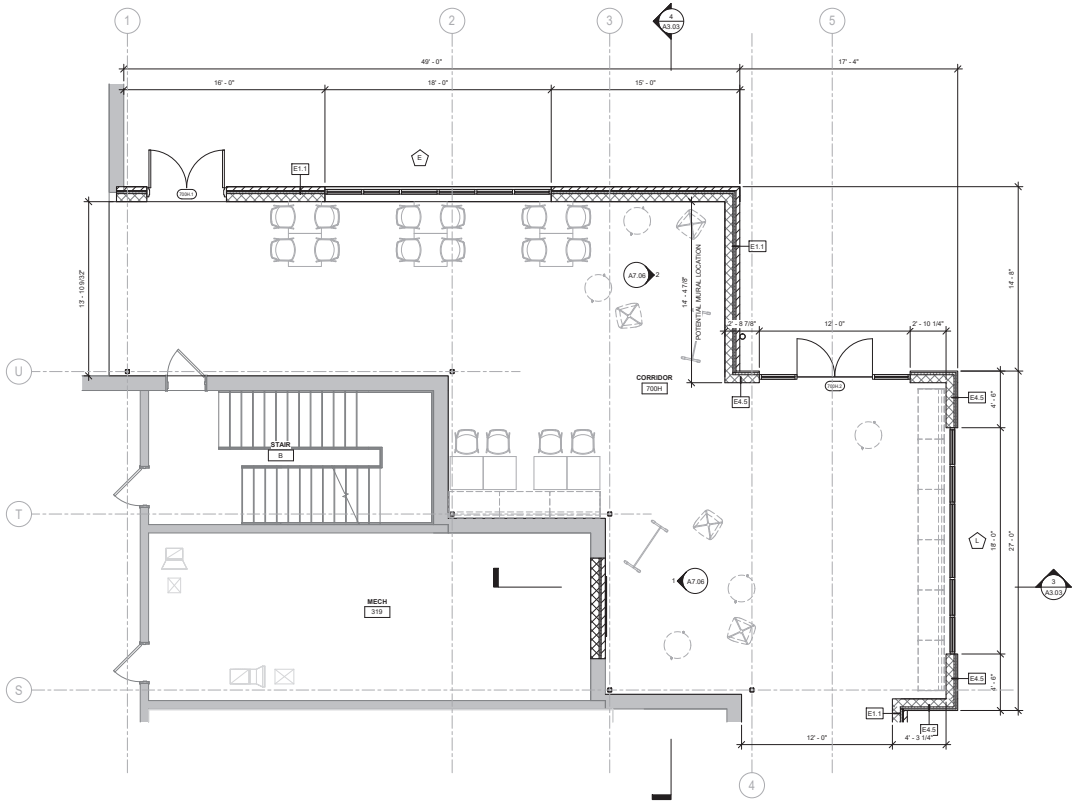
A4.18

KEYNOTE LEGEND



1 ENLARGED PLAN - FLEX CLASSROOM - AREA C
1/4" = 1'-0"

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123 I S Brooks St, Louisville, KY 40203
(o.502.582.1110 / fx.502.582.1101)

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ENLARGED PLANS – AREA C

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
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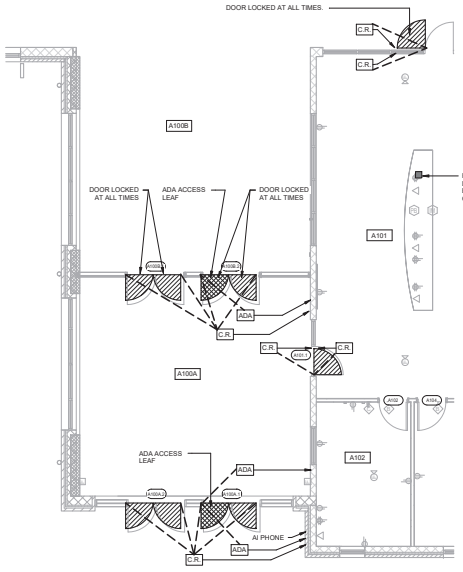
A4.19

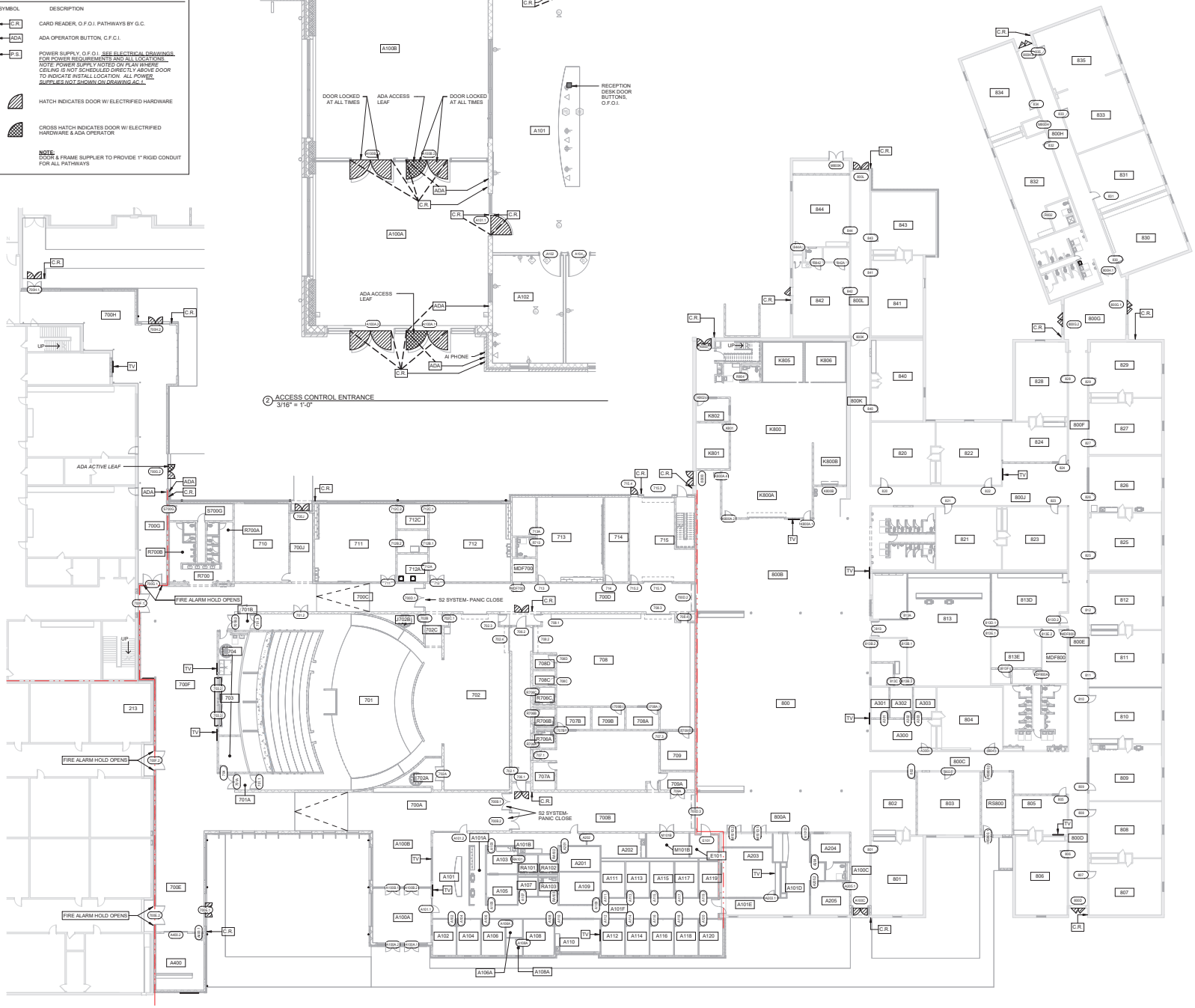
ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION
C.R.	CARD READER, O.F.O.I. PATHWAYS BY G.C.
ADA	ADA OPERATOR BUTTON, C.F.C.I.
P.S.	POWER SUPPLY, O.F.O.I. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS AND ALL LOCATIONS. *NOTE: POWER SUPPLY NOTED ON PLAN WHERE CEILING IS NOT SCHEDULED DIRECTLY ABOVE DOOR TO INDICATE INSTALL LOCATION. ALL POWER SUPPLIES NOT SHOWN ON DRAWING AC 1.*
	HATCH INDICATES DOOR W/ ELECTRIFIED HARDWARE
	CROSS HATCH INDICATES DOOR W/ ELECTRIFIED HARDWARE & ADA OPERATOR

NOTE:
DOOR & FRAME SUPPLIER TO PROVIDE 1" RIGID CONDUIT FOR ALL PATHWAYS



2 ACCESS CONTROL ENTRANCE
3/16" = 1'-0"



1 FIRST FLOOR PLAN- ACCESS CONTROL
1/16" = 1'-0"

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(o) 502.583.1101 (f) 502.583.1101

BG MOVING FORWARD

ACCESS CONTROL PLAN

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : SS
CHECKED BY : SKA
REVISIONS :

2022-35

A6.00

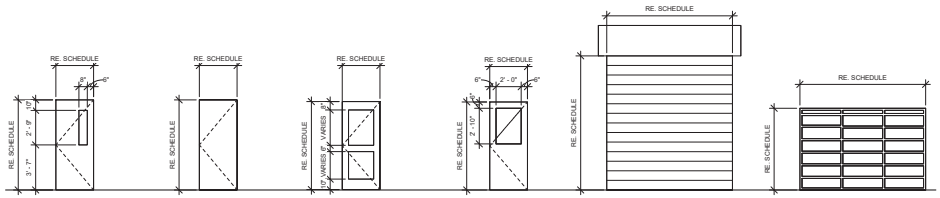
100% DESIGN DEVELOPMENT

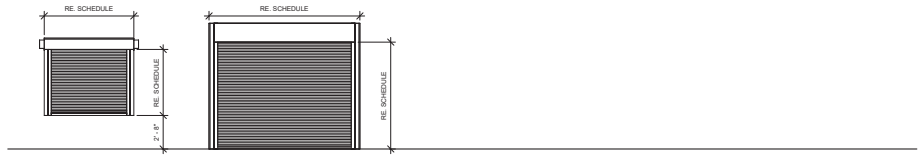
DOOR SCHEDULE

LOCATION			DOOR					FRAME			DETAILS					
DOOR NO.	ROOM NUMBER	ROOM NAME	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	FIRE RATING	HOLD OPEN	HARDWARE LOCKSET	COMMENTS
700B.1	700A	CORRIDOR	7'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT				E.H.		
700B.2	700A	CORRIDOR	7'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT				E.H.		
700D.1	700C	CORRIDOR	8'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT				H.O.		
700D.2	800B	CIRCULATION LOBBY	12'-0"	10'-0"	H	SS	SS	-	-	-			90 MIN			
700D.3	800A	CORRIDOR	15'-0"	10'-0"	N	SS	SS	-	-	-						
700E.1	700E	CORRIDOR	6'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						*SEE STOREFRONT ELEVATION
700E.2	700E	CORRIDOR	8'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT			90 MIN	H.O.		
700F.1	700F	CORRIDOR	8'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT			90 MIN	H.O.		
700F.2	700F	CORRIDOR	8'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT			90 MIN	H.O.		
700G.1	700G	CORRIDOR	8'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT			90 MIN	H.O.		
700G.2	700G	CORRIDOR	6'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						*SEE STOREFRONT ELEVATION
700G.3	700G	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
700G.4	314	SCIENCE LAB 1	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
700H.1	700H	CORRIDOR	6'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
700H.2	700H	CORRIDOR	6'-0"	7'-0"	C	PAINT	PAINT	*SEE COMMENTS	HM	HM						*SEE STOREFRONT ELEVATION
700J	700J	CORRIDOR	6'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
701.1	701A	AUD. ENTRY	6'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
701.2	700C	CORRIDOR	6'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
701.3	701	AUDITORIUM	6'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
701A	700F	CORRIDOR	6'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
701B.1	700C	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
701B.2	701B	AUD. ENTRY	6'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
702.1	706	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
702.2	702	STAGE	10'-0"	12'-0"	E	SS	SS	-	-	-						
702.3	702	STAGE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
702.4	706	CORRIDOR	10'-0"	12'-0"	E	SS	SS	-	-	-						
702A	702A	BACKSTAGE 02	6'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
702B	702B	STORAGE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
702C.1	702C	STORAGE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
702C.2	702C	STORAGE	6'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
703.1	700F	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
703.2	703	TICKET BOOTH	8'-6"	4'-0"	G	SS	SS	-	-	-						
703.3	703	TICKET BOOTH	8'-6"	4'-0"	G	SS	SS	-	-	-						
704	704	STORAGE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
705.1	705	CONTROL ROOM	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
705.2	705	CONTROL ROOM	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
706.1	706	CORRIDOR	4'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
706.2	706	CORRIDOR	4'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
707.1	707	VOCAL MUSIC	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
707.3	707	VOCAL MUSIC	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
707A	707	VOCAL MUSIC	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
707B	707B	CHOIR LIB/ OFFICE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
708.1	708	BAND	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
708.2	708	BAND	10'-0"	12'-0"	E	SS	SS	-	-	-						
708.3	708	BAND	10'-0"	12'-0"	E	SS	SS	-	-	-						
708.4	708	BAND	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
708A	708	BAND	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
708C	708	BAND	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
708D	708D	PRACTICE	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
709	708	BAND	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
709A	700B	CORRIDOR	6'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
709B	708	BAND	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
709C	707	VOCAL MUSIC	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
710	710	CLASSROOM (HUMANITIES)	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
711	711	2D ART	6'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
712	700D	CORRIDOR	6'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
712A	712	3D ART	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
712B.1	712B	SPRAY BOOTH/ STORAGE	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
712B.2	711	2D ART	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
712C.1	712C	ART OFFICE	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
712C.2	711	2D ART	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
715	713	DRAMA/ GREEN ROOM	3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
713A	713	DRAMA/ GREEN ROOM	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
714	700D	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
715.1	700D	CORRIDOR	12'-0"	12'-0"	E	SS	SS	-	-	-						
715.2	715	ARTS GARAGE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
715.3	715	ARTS GARAGE	12'-0"	12'-0"	E	SS	SS	-	-	-						
715.4	715	ARTS GARAGE	3'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
800B	800B	CIRCULATION LOBBY	6'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
800F	800F	CORRIDOR	7'-6"	7'-4"	-	-	-	EXIST	EXIST	PAINT						
800L	800L	CORRIDOR	6'-4"	7'-2"	C	HM	PAINT	3	HM	PAINT						
801	801	ISAP CLASS	3'-0"	7'-2"	A											
802	800C	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	1	HM	PAINT						
803	803	TYPICAL CLASSROOM	3'-0"	7'-2"	A	WOOD	PAINT	1	HM	PAINT						
804	804	TYP. CLASSRM (30 SEATS)	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
805	805	RESOURCE	3'-0"	7'-0"	C	HM	PAINT	AA*	HM	PAINT						*SEE STOREFRONT ELEVATION
806	806	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
807	807	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
808	808	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
809	809	RESOURCE	3'-0"	7'-0"	C	HM	PAINT	BB*	HM	PAINT						*SEE STOREFRONT ELEVATION
810	810	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
811	800E	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
812	812	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
813	800	CAFETERIA/ COMMONS	6'-0"	7'-2"	C	WOOD	STAIN	EXIST	EXIST	PAINT						
813A	813A	CHARGED MEDIA	3'-0"	6'-4"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						
813B.1	813	DIGITAL MEDIA (COMP. LAB)	3'-0"	7'-2"	B	WOOD	STAIN	1	HM	PAINT						
813B.2	813B	OFFICE	3'-0"	7'-2"	B	WOOD	STAIN	EXIST	EXIST	PAINT						
813B.3	813	DIGITAL MEDIA (COMP. LAB)	3'-0"	7'-2"	B	WOOD	STAIN	1	HM	PAINT						
813C	813B	OFFICE	3'-0"	7'-2"	B	WOOD	STAIN	1	HM	PAINT						
813D.1	813	DIGITAL MEDIA (COMP. LAB)	3'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						
813D.2	800E	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
813E.1	813E	CONFERENCE ROOM	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
813E.2	813E	CONFERENCE ROOM	3'-0"	7'-2"	B	WOOD	STAIN	EXIST	EXIST	PAINT						
813F	813E	CONFERENCE ROOM	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
820	820	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
821	821	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
822	822	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
823	823	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
824	824	RESOURCE	3' - 0 1/2"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						*SEE STOREFRONT ELEVATION
825	825	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
826	826	RESOURCE	3'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						*SEE STOREFRONT ELEVATION
827	827	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
828	828	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
829	829	MATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
830	830	RESOURCE ELC	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
831	831	LAW ENFORCEMENT	3'-0"	7'-0"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
832	832	FFA/AG	3'-0"	7'-0"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
833	833	LAW ENFORCEMENT	3'-0"	7'-0"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
834	800H	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
835	835	LAW ENFORCEMENT	3'-0"	7'-0"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
840	840	CLASSROOM	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
841	841	EL CAREER PATH	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
842	842	DAYCARE	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
842A	842	DAYCARE	3'-0"	7'-2"	B	WOOD	STAIN	EXIST	EXIST	PAINT						
842B	842	DAYCARE	2'-2"	7'-2"	B	WOOD	STAIN	EXIST	EXIST	PAINT						
843	800L	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
844	800L	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
844A	844A	STORAGE	2'-2"	7'-2"	B	WOOD	STAIN	EXIST	EXIST	PAINT						
A100A.1	A100A	SECURE VESTIBULE	6'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						*SEE STOREFRONT ELEVATION
A100A.2	A100A	SECURE VESTIBULE	6'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						*SEE STOREFRONT ELEVATION
A100B.1	A100B	CORRIDOR LOBBY	6'-0"	7'-0"	C	ALUM	ANDODIZED	*SEE COMMENTS	ALUM	ANODIZED						*SEE STOREFRONT ELEVATION
A100B.2	A100B	CORRIDOR LOBBY	6'-0"	7'-0"	C	ALUM	ANDODIZED	*SEE COMMENTS	ALUM	ANODIZED						*SEE STOREFRONT ELEVATION
A100C	A100C	CORRIDOR	6'-0"	7'-2"	C	HM	PAINT	1	HM	PAINT						
A101.1	A100A	SECURE VESTIBULE	3'-0"	7'-2"	C	ALUM	ANDODIZED	DD	ALUM	ANODIZED						
A101.2	700A	CORRIDOR	3'-0"	7'-2"	C	ALUM	ANDODIZED	EE	ALUM	ANODIZED						
A101.3			3'-0"	7'-0"	A	WOOD	STAIN	2	HM	PAINT						
A101B	A101B	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	2	HM	PAINT						
A101D	A101D	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	1	HM	PAINT						
A101E	A101E	CORRIDOR	6'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT			90 MIN			
A102	A101	RECEPTION	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A103	A101B	CORRIDOR	3'-0"	7'-0"	D	WOOD	STAIN	1	HM	PAINT						
A104	A104	ATTEND (Karla)	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A105	A105	OFFICE (Sheila)	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A106	A106	SRO	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A106A	A106	SRO	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
A107	A101F	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
A108	A101F	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A108A	A108A	BK STORAGE	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
A109	A109	RECORDS	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A110	A101F	CORRIDOR	3'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	PAINT						
A111	A111	COUNS. 01	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A112	A101F	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A113	A113	COUNS. 02	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A114	A114	AP 02	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A115	A101F	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A116	A101F	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A117	A117	COUNS. 04	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A118	A118	AP 04	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A119	A101F	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A120	A101F	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A201	A201	SPED	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A202	A101B	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A203.1	A101E	CORRIDOR	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						
A204	A204	PRINCIPAL	3'-0"	7'-0"	A	WOOD	STAIN	1	HM	PAINT						

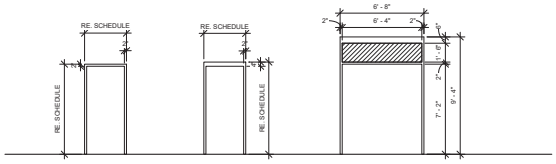
DOOR SCHEDULE

LOCATION			DOOR					FRAME			DETAILS					
DOOR NO.	ROOM NUMBER	ROOM NAME	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	FIRE RATING	HOLD OPEN	HARDWARE LOCKSET	COMMENTS
A205.1	A100C	CORRIDOR	3'-0"	7'-2"	A	WOOD	STAIN	1	HM	PAINT						
A205.2	A205	COUNS. WAITING	3'-0"	7'-0"	C	HM	PAINT	*SEE COMMENTS	HM	HM						
A300	A300	FRYSC	3'-0"	7'-2"	A	WOOD	STAIN	EXIST	EXIST	PAINT						
A301	A301	STORAGE	3'-0"	7'-2"	B	WOOD	STAIN	1	HM	PAINT						
A302	A302	OFFICE	3'-0"	7'-2"	A	WOOD	STAIN	1	HM	PAINT						
A303	A303	OFFICE	3'-0"	7'-2"	A	WOOD	STAIN	1	HM	PAINT						
A400.1	700E	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
A400.2	700E	CORRIDOR	10'-0"	7'-0"	F	SS	SS	-	-	-						
E101	E101	ELEC	4'-0"	7'-0"	B	HM	PAINT	1	HM	PAINT						
IDF800A	IDF800A	STORAGE	3'-6"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
K800	K800	KITCHEN	6'-0"	7'-2"	B	HM	PAINT	1	HM	PAINT						
K800A.1	K800A	SERVING LINE	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
K800A.2	K800A	SERVING LINE	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
K800A.3	800B	CIRCULATION LOBBY	15'-0"	10'-0"	E	SS	SS	-	-	-						
K800A.4	800B	CIRCULATION LOBBY	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
K800B	800B	CIRCULATION LOBBY	6'-0"	5'-0"	G	SS	SS	-	-	-						
K801	K801	DRY STORAGE	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
K802	K802	KITCHEN OFFICE	3'-0"	7'-0"	D	WOOD	STAIN	2	HM	PAINT						
M101B	700B	CORRIDOR	6'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
M101D.1	800A	CORRIDOR	6'-0"	7'-0"	B	HM	PAINT	1	HM	PAINT						
M101D.2	800A	CORRIDOR	6'-0"	7'-0"	B	HM	PAINT	1	HM	PAINT						
M800K	M800K	MECHANICAL	6'-0"	7'-2"	B	HM	PAINT	1	HM	PAINT						
M800	M800	MECHANICAL MEZZANINE	6'-0"	7'-0"	A	HM	PAINT	2	HM	PAINT			90 MIN			
MDF700	MDF700	MDF	3'-6"	7'-0"	B	HM	PAINT	2	HM	PAINT						
MDF800	800E	CORRIDOR	3'-6"	7'-2"	B	HM	PAINT	1	HM	PAINT						
R700A.1	R700A	RESTROOM- GIRLS	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R700A.2	R700A	RESTROOM- GIRLS	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R700A.3	R700A	RESTROOM- GIRLS	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R700A.4	R700A	RESTROOM- GIRLS	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R700B.1	R700B	RESTROOM- BOYS	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R700B.2	R700B	RESTROOM- BOYS	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R700C	S700G	JANITOR	3'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
R706A	R706A	RR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
R706B	706	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
R706C	706	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
R713	R713	RR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
R800A.1	R800A	BOYS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800A.2	R800A	BOYS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800A.3	R800A	BOYS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800B.1	R800B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800B.2	R800B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800B.3	R800B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800B.4	R800B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800B.5	R800B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R800C	R800C	PLUMBING CHASE	3'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
R801A.1	R801A	BOYS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801A.2	R801A	BOYS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801A.3	R801A	BOYS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801B.1	R801B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801B.2	R801B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801B.3	R801B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801B.4	R801B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801B.5	R801B	GIRLS RR	2'-8"	6'-8"	SEE SHEET A4.00	HM	PAINT	SEE SHEET A4.00	HM	PAINT						
R801C	R801C	PLUMBING CHASE	3'-0"	7'-0"	B	HM	PAINT	2	HM	PAINT						
R802C	R802C	PLUMBING CHASE	2'-0"	7'-0"	B	HM	PAINT	EXIST	EXIST	PAINT						
R804	K803	KIT. LOCKER	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
R842	842	DAYCARE	3'-0"	7'-2"	B	WOOD	STAIN	EXIST	EXIST	PAINT						
RA101	A103	NURSE/SICK	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
RA102	A101B	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
RA103	RA103	RR	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
RA201	A204	PRINCIPAL	3'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
RS800.1	RS800	FIRE SPRINKLER	4'-0"	7'-2"	B	WOOD	STAIN	1	HM	PAINT						
RS800.2	800C	CORRIDOR	4'-0"	7'-2"	B	WOOD	STAIN	1	HM	PAINT						
S700G	700G	CORRIDOR	3'-0"	7'-0"	B	WOOD	STAIN	2	HM	PAINT						
ST101	ST101	PLATFORM STAIR	4'-0"	7'-0"	B	WOOD	STAIN	1	HM	PAINT						
ST901	ST901	MECH STAIR	4'-0"	7'-0"	J	HM	PAINT	2	HM	PAINT						





DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"

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BG+ MOVING FORWARD

DOOR SCHEDULE AND DETAILS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

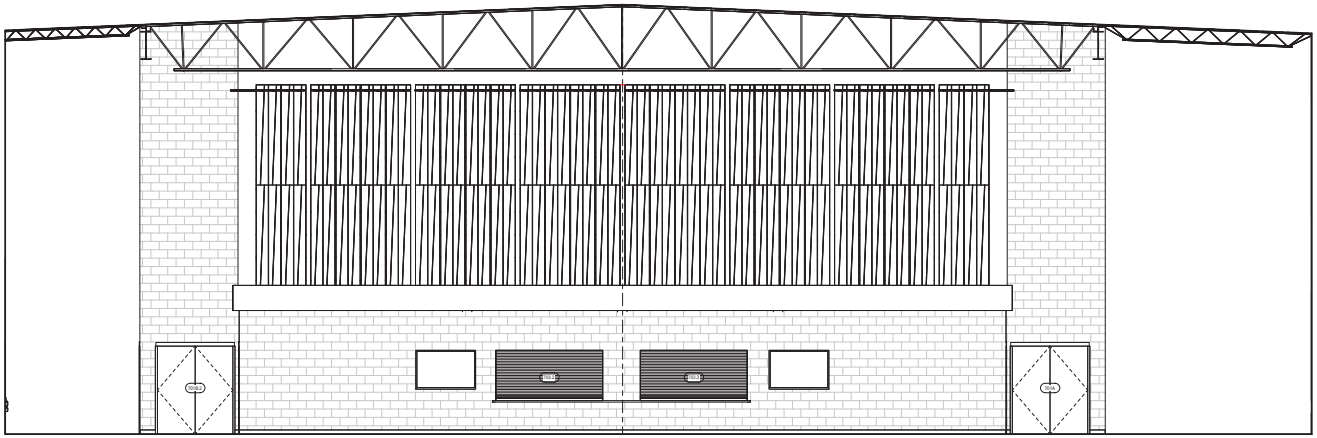
DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : SKA
REVISIONS :

2022-35

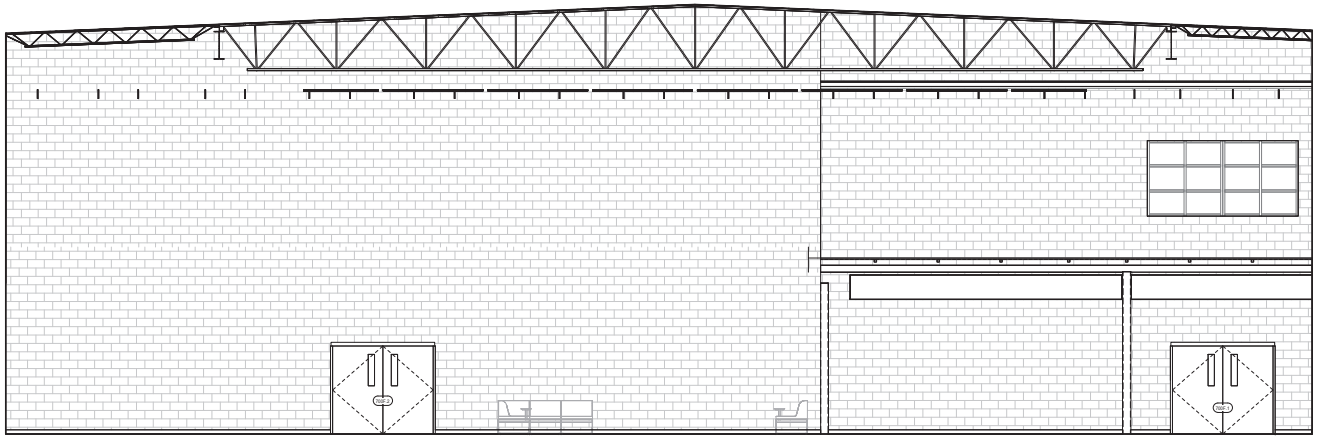
A6.01

100% DESIGN DEVELOPMENT

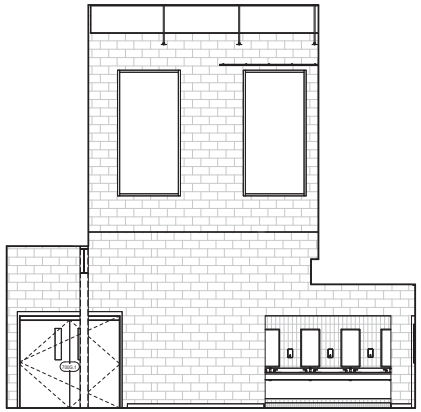
KEYNOTE LEGEND



1 INT. ELEV.- LOBBY EAST
1/4" = 1'-0"



3 INT. ELEV.- LOBBY WEST
1/4" = 1'-0"



2 INT. ELEV.- LOBBY NORTH
1/4" = 1'-0"

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INTERIOR ELEVATIONS - AUD. LOBBY

Bullitt East High School - Fine Arts Addition
11450 KY-44
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BG# 23-050

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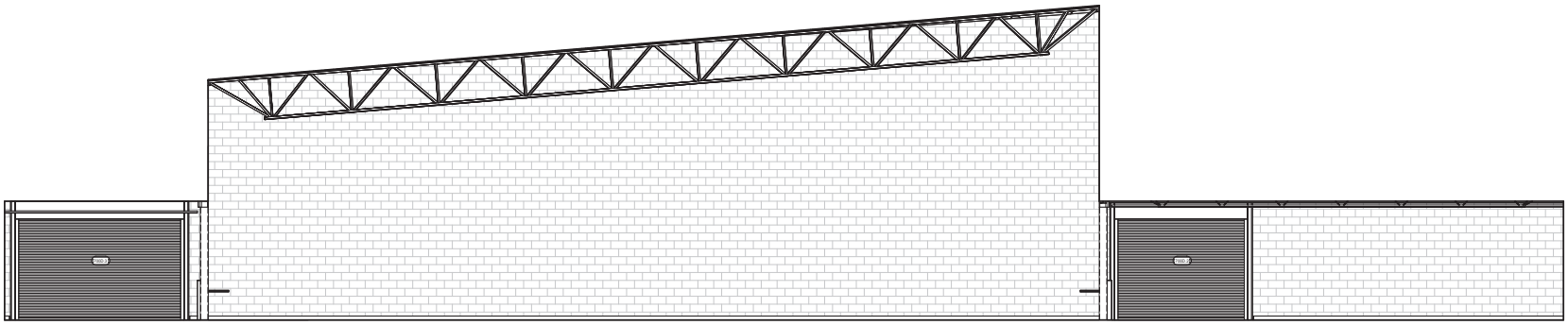
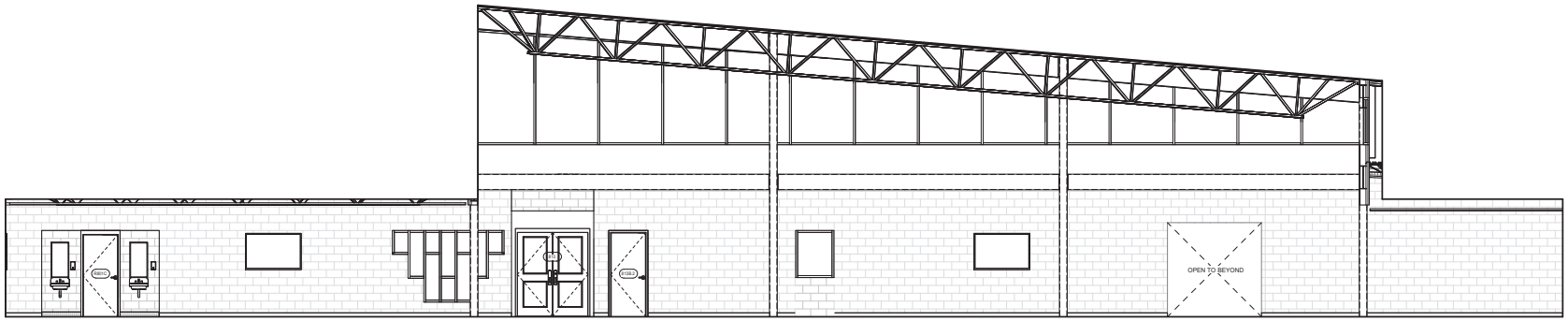
A7.01

KEYNOTE LEGEND



2 INT. ELEV. - CAFETERIA WEST
1/4" = 1'-0"



3 INT. ELEV. - CAFETERIA EAST
1/4" = 1'-0"

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MOVING FORWARD

INTERIOR ELEVATIONS - CAFETERIA COMMONS

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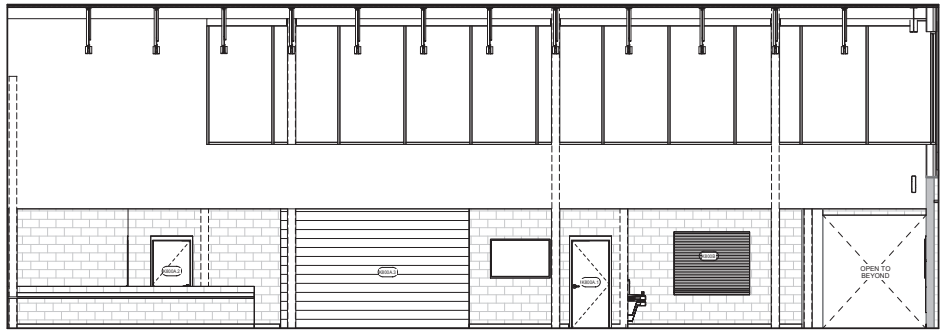
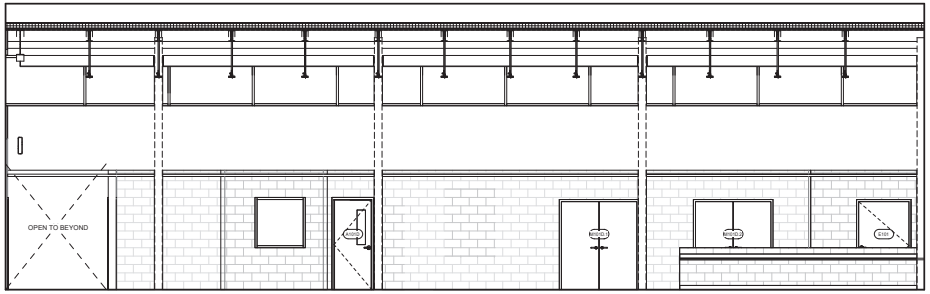
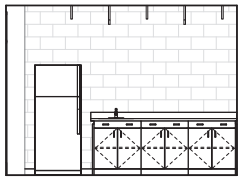
KEYNOTE LEGEND



1 INT. ELEV. - CAFETERIA NORTH
1/4" = 1'-0"



2 INT. ELEV. - CAFETERIA SOUTH
1/4" = 1'-0"



3 INT. ELEV.- RESOURCE ROOM- TYP.
3/8" = 1'-0"

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INTERIOR ELEVATIONS - CAFETERIA COMMONS

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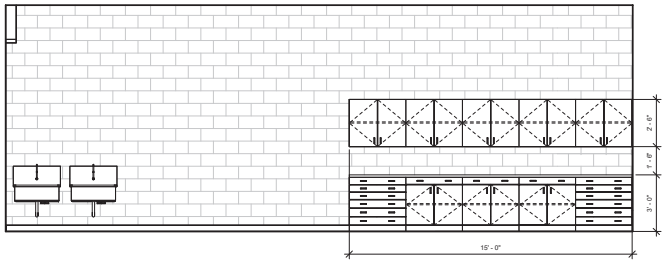
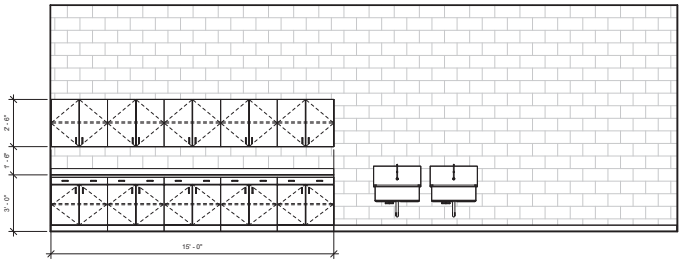
A7.03

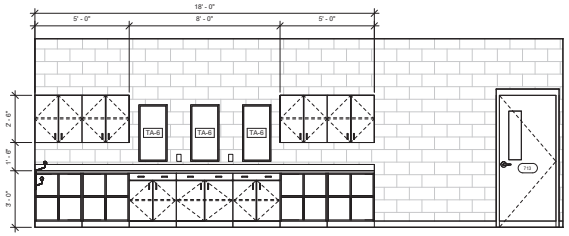
KEYNOTE LEGEND



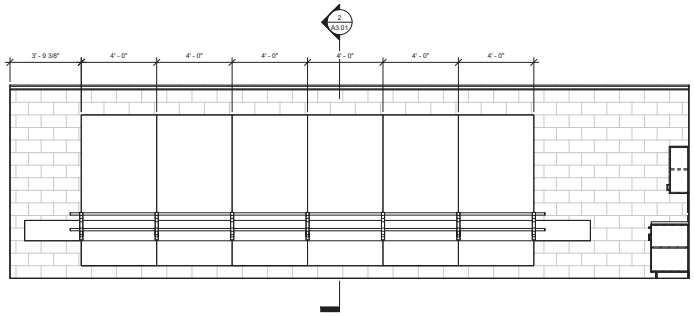
1 INT. ELEV. - 2D ART CLASSROOM
3/8" = 1'-0"



2 INT. ELEV. - 3D ART CLASSROOM
3/8" = 1'-0"



3 INT. ELEV. - DRAMA CLASSROOM SOUTH
3/8" = 1'-0"



4 INT. ELEV. - DRAMA CLASSROOM EAST
3/8" = 1'-0"

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INTERIOR ELEVATIONS – ART CLASSROOMS

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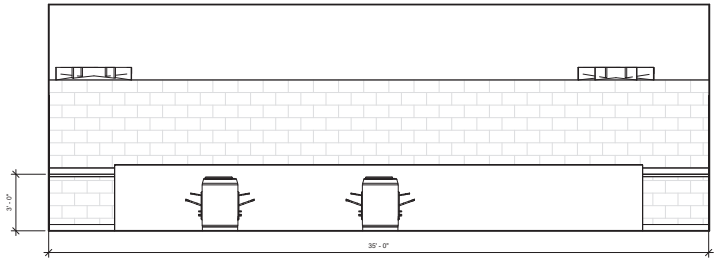
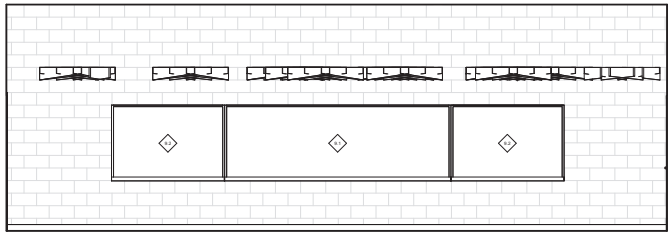
KEYNOTE LEGEND	
8.1	4' x 10' MARKERBOARD
9.2	4' x 8' TACKBOARD



1 INT. ELEV. - DIGITAL MEDIA NORTH
3/8" = 1'-0"



2 INT. ELEV. - DIGITAL MEDIA SOUTH
3/8" = 1'-0"

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INTERIOR ELEVATIONS - DIGITAL MEDIA

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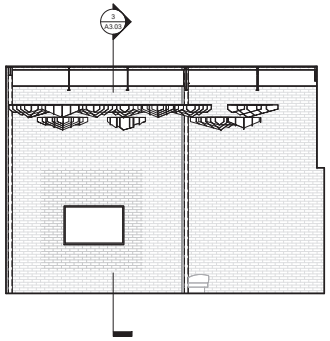
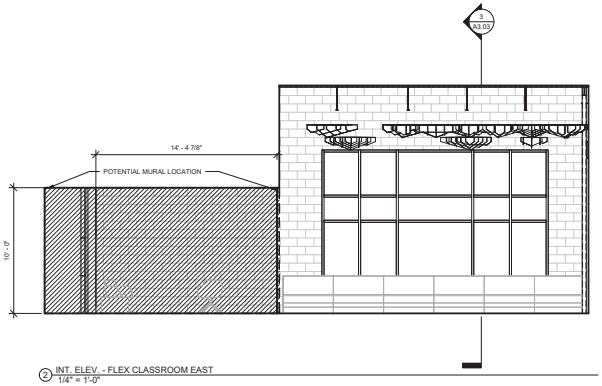


1 INT. ELEV. - FLEX CLASSROOM WEST
1/4" = 1'-0"



2 INT. ELEV. - FLEX CLASSROOM EAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS - AREA C

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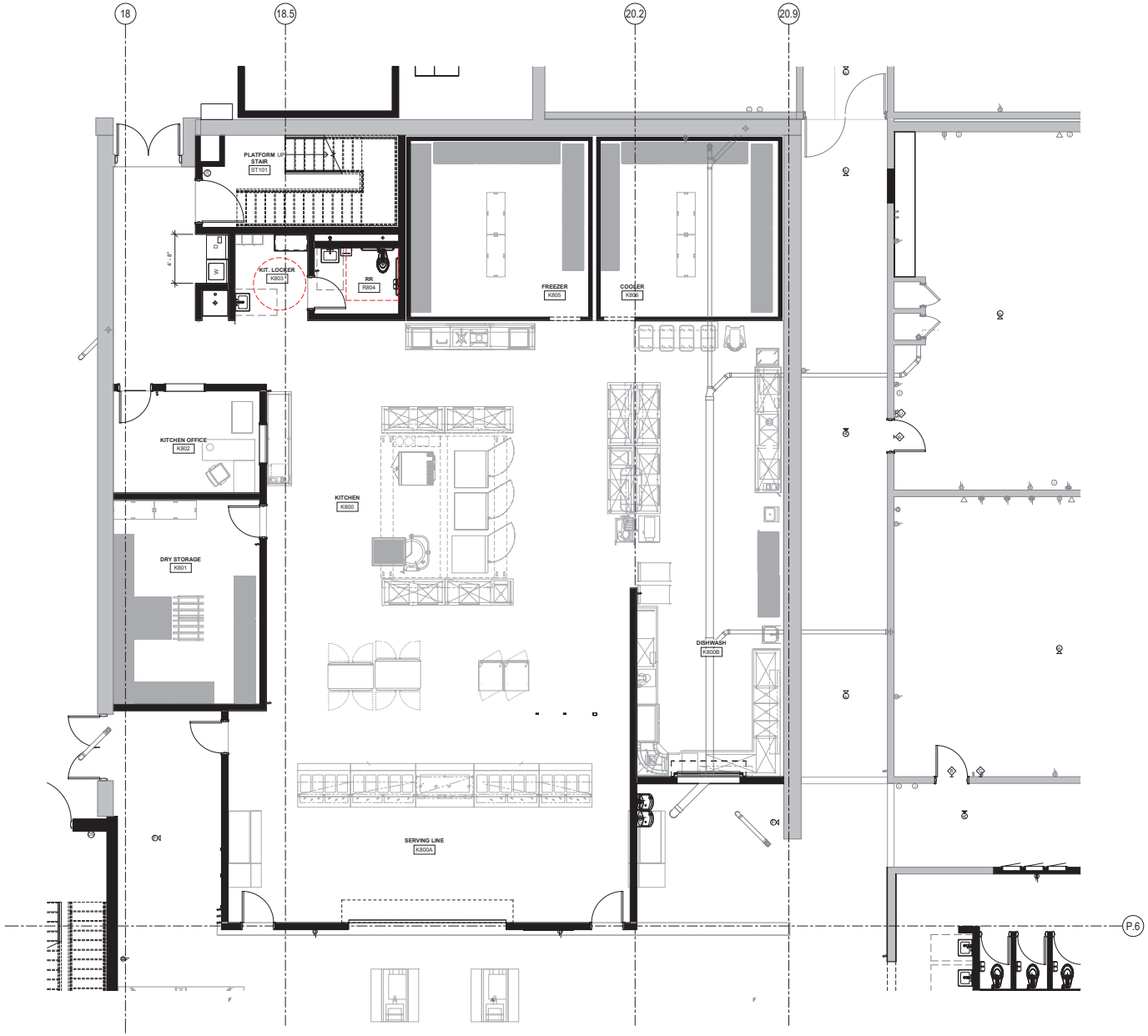

1 FOOD SERVICE - KITCHEN PLAN
1/4" = 1'-0"

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KITCHEN EQUIPMENT PLAN

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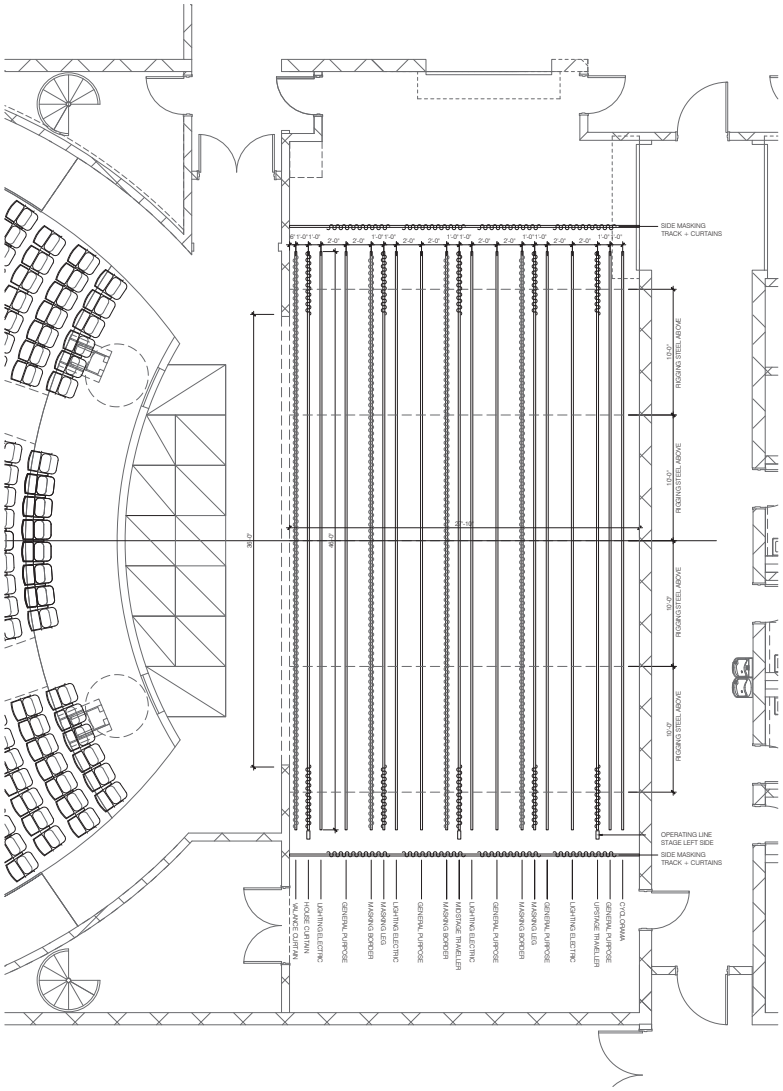
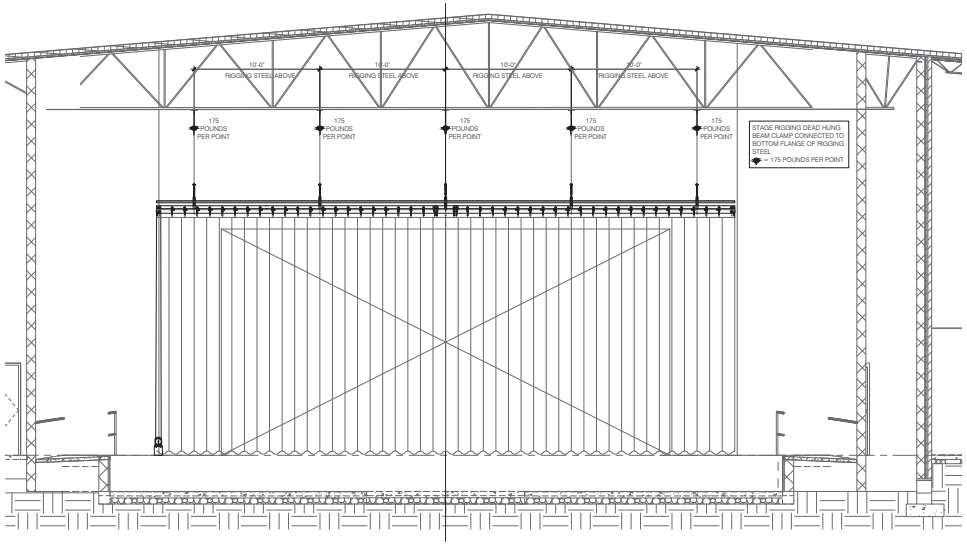


1 TH1.0 STAGE RIGGING SYSTEMS - BATTEN PLAN

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



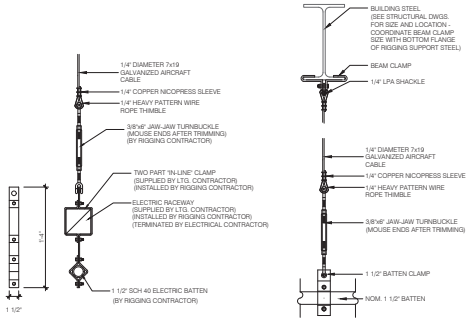
2 TH1.0 STAGE RIGGING SYSTEMS - TRANSVERSE SECTION

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

STAGE DRAPERY & BATTEN SCHEDULE

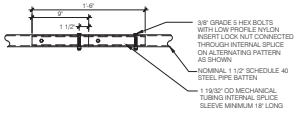
No.	DESCRIPTION	LOCATION FROM PLASTER LINE	BATTEN LENGTH	MOUNTING	TRACK	DRAPERY H x W (FULLNESS)	DRAPERY FABRIC
1	VALANCE CURTAIN	0'-6"	46'-0"	DEAD HUNG	NONE	(1) @ 6'-0" x 46'-0" (50% FULL)	IFR VELOUR (LINED)
2	HOUSE CURTAIN	1'-6"	46'-0"	DEAD HUNG	BI-PART 2@24'-0"	(2) @ 19'-0" x 24'-0" (50% FULL)	IFR VELOUR (LINED)
3	LIGHTING ELECTRIC 1	2'-6"	46'-0"	DEAD HUNG	LIGHTING RACEWAY		
4	GENERAL PURPOSE	4'-6"	46'-0"	DEAD HUNG	NONE		
5	MASKING BORDER	6'-6"	46'-0"	DEAD HUNG	NONE	(1) @ 6'-0" x 46'-0" (FLAT)	IFR VELOUR
6	MASKING LEGS	7'-6"	46'-0"	DEAD HUNG	NONE	(2) @ 19'-0" x 5'-0" (FLAT)	IFR VELOUR
7	LIGHTING ELECTRIC 2	8'-6"	46'-0"	DEAD HUNG	LIGHTING RACEWAY		
8	GENERAL PURPOSE	10'-6"	46'-0"	DEAD HUNG	NONE		
9	MASKING BORDER	12'-6"	46'-0"	DEAD HUNG	NONE	(1) @ 6'-0" x 46'-0" (FLAT)	IFR VELOUR
10	MIDSTAGE TRAVELER	13'-6"	46'-0"	DEAD HUNG	BI-PART 2@24'-0"	(2) @ 19'-0" x 24'-0" (50% FULL)	IFR VELOUR
11	LIGHTING ELECTRIC 3	14'-6"	46'-0"	DEAD HUNG	LIGHTING RACEWAY		
12	GENERAL PURPOSE	16'-6"	46'-0"	DEAD HUNG	NONE		
13	MASKING BORDER	18'-6"	46'-0"	DEAD HUNG	NONE	(1) @ 6'-0" x 46'-0" (FLAT)	IFR VELOUR
14	MASKING LEGS	19'-6"	46'-0"	DEAD HUNG	NONE	(2) @ 19'-0" x 5'-0" (FLAT)	IFR VELOUR
15	GENERAL PURPOSE	20'-6"	46'-0"	DEAD HUNG	NONE		
16	LIGHTING ELECTRIC 4	22'-6"	46'-0"	DEAD HUNG	LIGHTING RACEWAY		
17	UPSTAGE TRAVELER	24'-6"	46'-0"	DEAD HUNG	BI-PART 2@24'-0"	(2) @ 19'-0" x 24'-0" (50% FULL)	IFR VELOUR
18	GENERAL PURPOSE	25'-6"	46'-0"	DEAD HUNG	NONE		
19	CYCLORAMA	26'-6"	46'-0"	DEAD HUNG	NONE	(1) @ 23'-3" x 48'-0" (FLAT)	FR WHITE MUSLIN
AA	SIDE MASKING SL		28'-0"	DEAD HUNG	STRAIGHT WALK ALONG 28'-0"	(4) @ 20'-0" x 5'-0" (FLAT)	IFR VELOUR
BB	SIDE MASKING SR		28'-0"	DEAD HUNG	STRAIGHT WALK ALONG 28'-0"	(4) @ 20'-6" x 5'-0" (FLAT)	IFR VELOUR

3 TH1.0 STAGE RIGGING SYSTEMS - BATTEN AND DRAPERY SCHEDULE



4 TH1.0 STAGE RIGGING HANGING DETAIL

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



5 TH1.0 STAGE RIGGING SPLICE DETAIL

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

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STAGE RIGGING SYSTEMS

BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
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BG# 23-050

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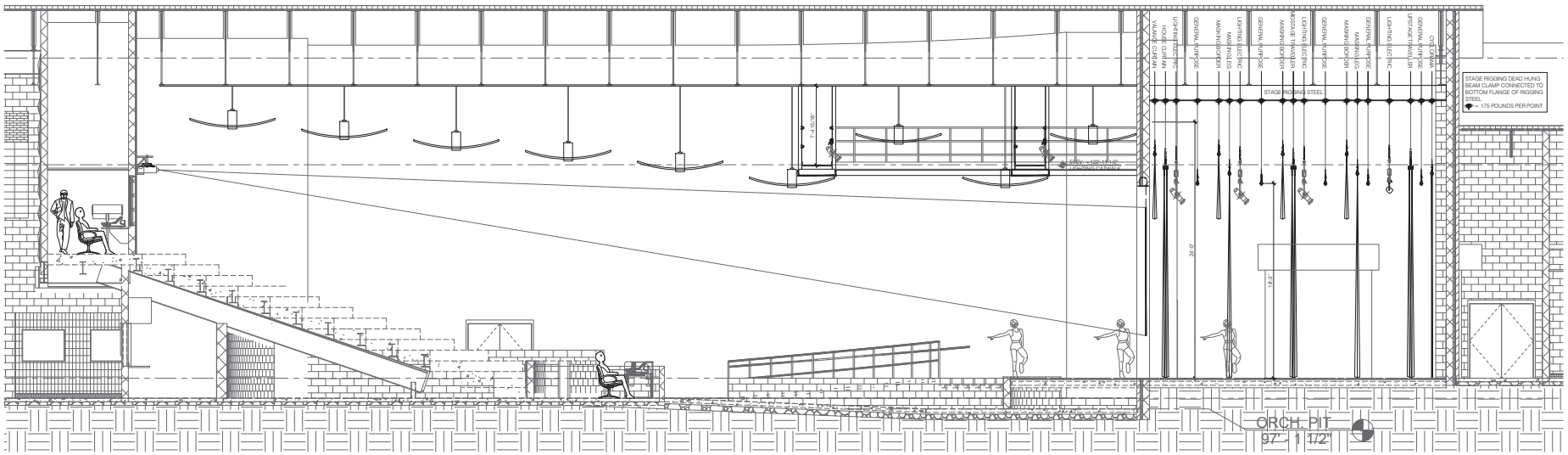
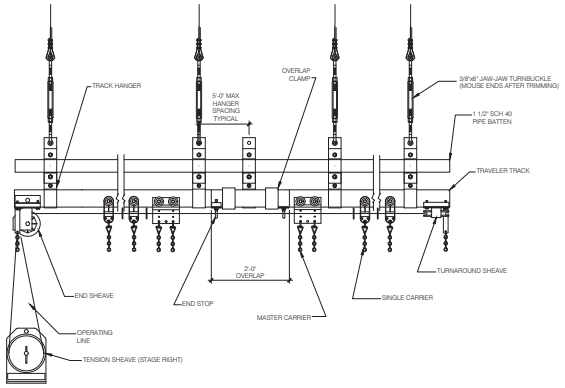


1 / TH1.1 STAGE RIGGING SYSTEMS - LONGITUDINAL SECTION

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



2 / TH1.1 STAGE RIGGING SYSTEMS - CURTAIN TRACK ELEVATION

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

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STAGE RIGGING SYSTEMS

BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION

11450 KY-44
Mt Washington, KY 40047

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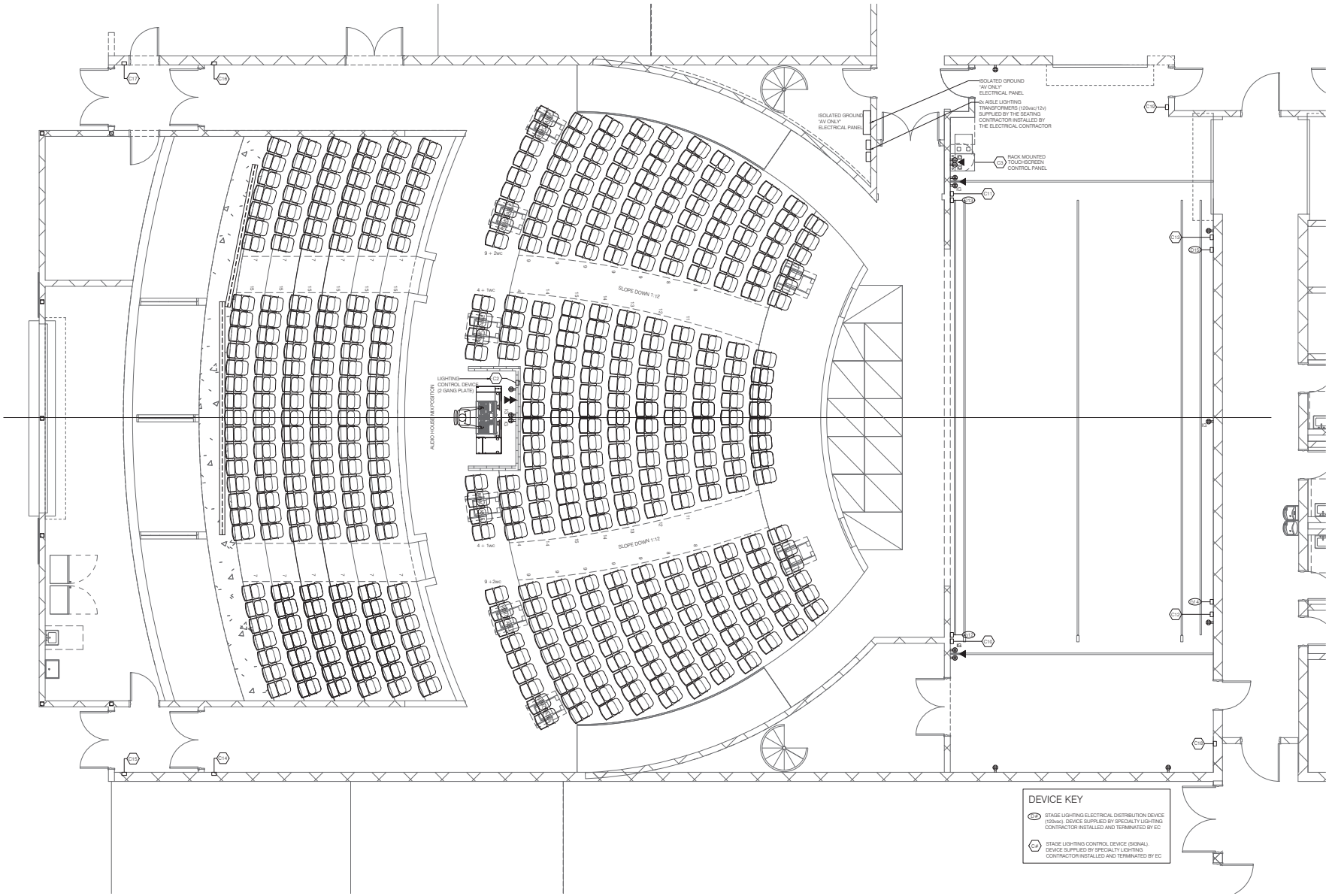

1 TH2.0 STAGE LIGHTING SYSTEMS - LOWER LEVEL PLAN

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

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STAGE LIGHTING SYSTEMS

BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION

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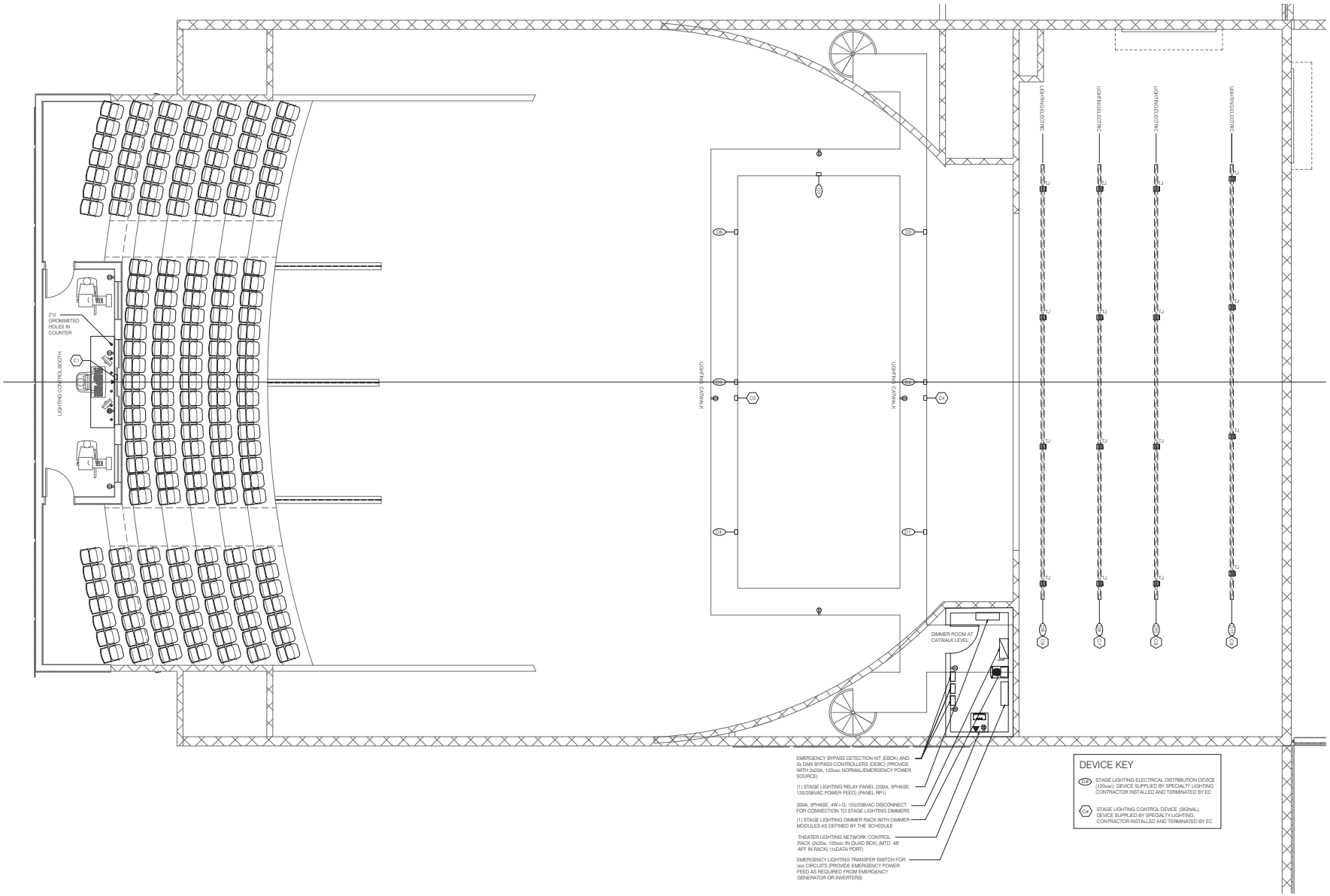

1 / TH2.1 STAGE LIGHTING SYSTEMS - UPPER LEVEL PLAN

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

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STAGE LIGHTING SYSTEMS

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1140 KY-44
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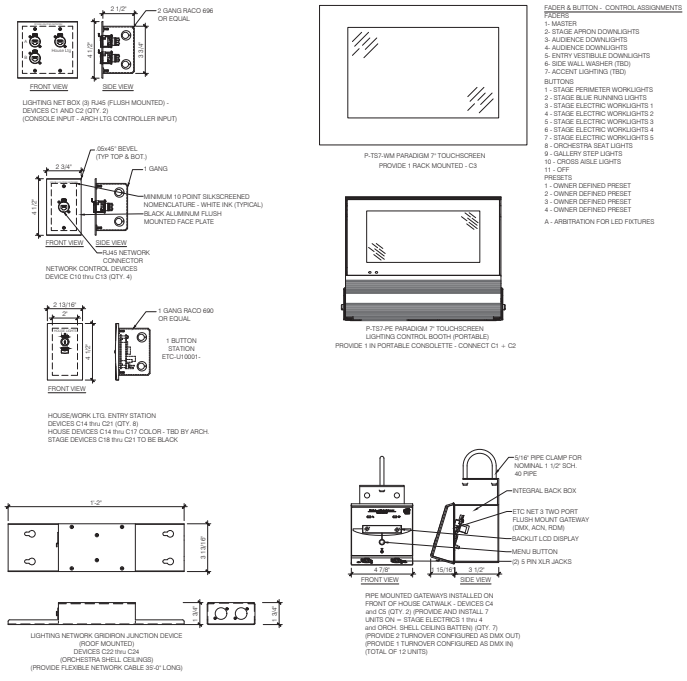
TH2.1



FADER & BUTTON - CONTROL ASSIGNMENTS

FADERS
1- MASTER
2- STAGE APRON DOWNLIGHTS
3- AUDIENCE DOWNLIGHTS
4- AUDIENCE DOWNLIGHTS
5- ENTRY VESTIBULE DOWNLIGHTS
6- SIDE WALL WASHER (TBD)
7- ACCENT LIGHTING (TBD)

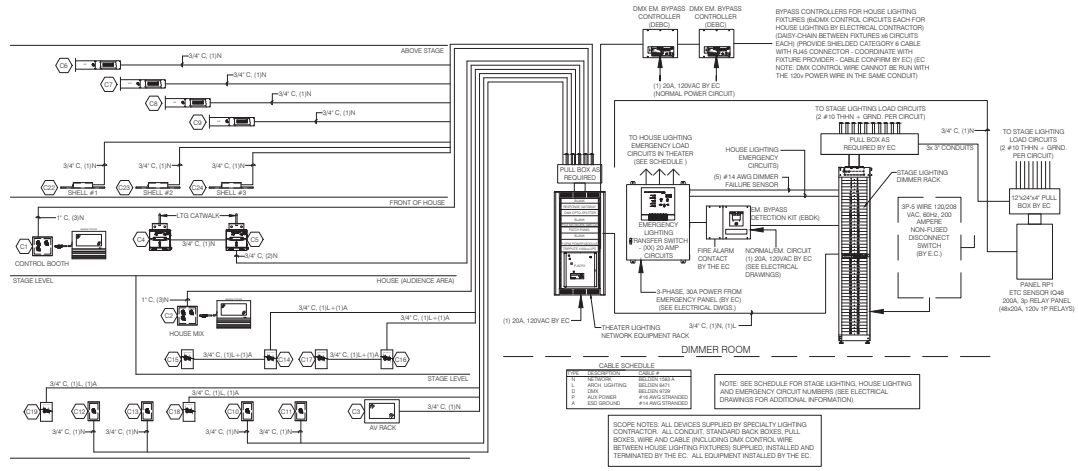
BUTTONS
1 - STAGE PERIMETER WORKLIGHTS
2 - STAGE BLUE RUNNING LIGHTS
3 - STAGE ELECTRIC WORKLIGHTS 1
4 - STAGE ELECTRIC WORKLIGHTS 2
5 - STAGE ELECTRIC WORKLIGHTS 3
6 - STAGE ELECTRIC WORKLIGHTS 4
7 - STAGE ELECTRIC WORKLIGHTS 5
8 - ORCHESTRA SEAT LIGHTS
9 - GALLERY STEP LIGHTS
10 - CROSS AISLE LIGHTS
11 - OFF

PRESETS
1 - OWNER DEFINED PRESET
2 - OWNER DEFINED PRESET
3 - OWNER DEFINED PRESET
4 - OWNER DEFINED PRESET

A - ARBITRATION FOR LED FIXTURES

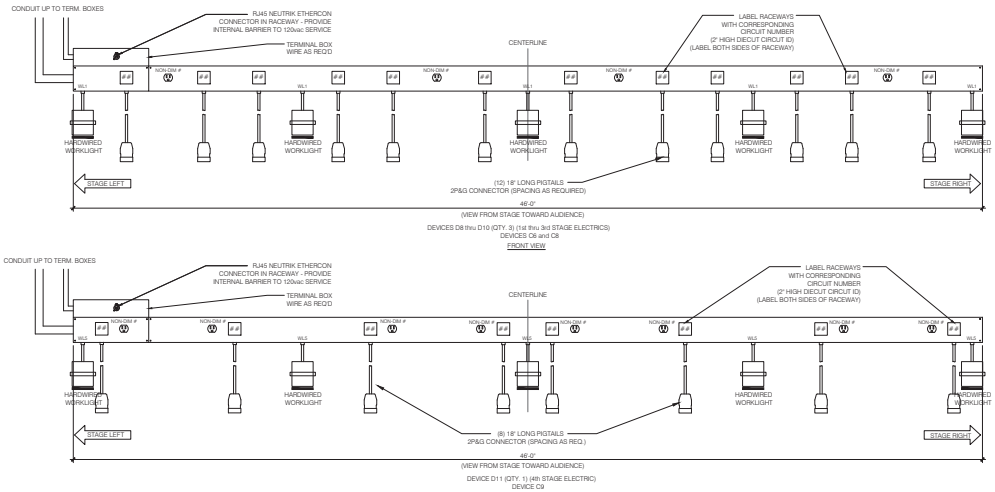
1 TH2.2 STAGE LIGHTING SYSTEMS - CONTROL DEVICE DETAILS

SCALE: 3" = 1'-0"



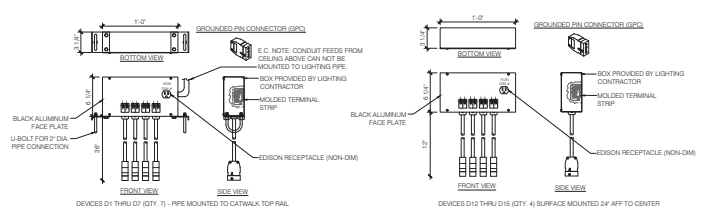
2 TH2.2 STAGE LIGHTING SYSTEMS - CONTROL RISER DIAGRAM

NOT TO SCALE



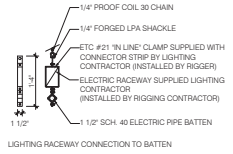
3 TH2.2 STAGE LIGHTING SYSTEMS - ELECTRICS RACEWAY DETAILS

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



4 TH201 STAGE LIGHTING SYSTEMS - DISTRIBUTION DEVICE DETAILS

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



4 TH202 STAGE LIGHTING SYSTEMS - ELECTRICS RACEWAY DETAILS

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

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HMBA HUTTON MARSHALL & BUNNELL LLP CONSULTING ENGINEERS NEW YORK

BC MOVING FORWARD

100% DESIGN DEVELOPMENT

STAGE LIGHTING SYSTEMS

BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt Washington, KY 40047

BG# 23-050

DATE : 07-24-2023
DRAWN BY : TWB
CHECKED BY : TWB
REVISIONS :

2022-35

TH2.2

LIGHTING 120vac DISTRIBUTION AND CONTROL DEVICE SCHEDULE

DEVICE	DESCRIPTION	LOCATION	BOX SIZE	BACK BOX PROVIDED BY	INSTALLED BY	MTD. HGT	CCT. #	CONDUIT	CONDUIT/ CABLE PROVIDED BY	WIRE FILL	WIRE PROVIDED BY
D1	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	1 thru 4 + ND1	(1) 1"	EC	10 #10+G	EC
D2	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	5 thru 8 + ND2	(1) 1"	EC	10 #10+G	EC
D3	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	9 thru 12 + ND3	(1) 1"	EC	10 #10+G	EC
D4	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	13 thru 16 + ND4	(1) 1"	EC	10 #10+G	EC
D5	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	17 thru 20 + ND5	(1) 1"	EC	10 #10+G	EC
D6	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	21 thru 24 + ND6	(1) 1"	EC	10 #10+G	EC
D7	Pipe Mtd. Distribution Box	Front of House Ltg Catwalk	6"x12"X3"	Specialty Ltg	EC	42" Pipe	25 thru 28 _ + ND7	(1) 1"	EC	10 #10+G	EC
D8	Rigging Mtd. Raceway 1st E	Stage Rigging Electric 1	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	29 thru 40+ND8-ND11+WL1	(1) 1 1/2"	EC	34 #10+G	EC
D9	Rigging Mtd. Raceway 2nd E	Stage Rigging Electric 2	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	41 thru 52+ND12-ND15+WL2	(1) 1 1/2"	EC	34 #10+G	EC
D10	Rigging Mtd. Raceway 3rd E	Stage Rigging Electric 3	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	53 thru 64+ND18-ND19+WL3	(1) 1 1/2"	EC	34 #10+G	EC
D11	Rigging Mtd. Raceway 4th E	Stage Rigging Electric 4	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	65 thru 72+ND20-ND27+WL4	(1) 1 1/2"	EC	34 #10+G	EC
D12	Surface Mtd. Distribution Box	Downstage Left Prosc. Wall	6"x12"X3"	Specialty Ltg	EC	24" AFF	73 thru 76 + ND28	(1) 1"	EC	10 #10+G	EC
D13	Surface Mtd. Distribution Box	Downstage Rgt Prosc. Wall	6"x12"X3"	Specialty Ltg	EC	24" AFF	77 thru 80 + ND29	(1) 1"	EC	10 #10+G	EC
D14	Surface Mtd. Distribution Box	Upstage Left Rear Wall	6"x12"X3"	Specialty Ltg	EC	24" AFF	81 thru 84 + ND30	(1) 1"	EC	10 #10+G	EC
D15	Surface Mtd. Distribution Box	Upstage Rgt Rear Wall	6"x12"X3"	Specialty Ltg	EC	24" AFF	85 thru 88 + ND31	(1) 1"	EC	10 #10+G	EC
D16A	Surface Mtd. Junction Box	Orchestra Shell Ceiling 1	1 Gang	Specialty Ltg	EC	Rigging	Dimmer 89	(1) 3/4"	EC	2 #10+G	EC
D16B	Surface Mtd. Distribution Box	Orchestra Shell Ceiling 1	1 Gang	Specialty Ltg	EC	Rigging	Dimmer 89	-	-	Type SO Multicable 35'	Specialty
D17A	Surface Mtd. Junction Box	Orchestra Shell Ceiling 2	1 Gang	Specialty Ltg	EC	Rigging	Dimmer 90	(1) 3/4"	EC	2 #10+G	EC
D17B	Surface Mtd. Distribution Box	Orchestra Shell Ceiling 2	1 Gang	Specialty Ltg	EC	Rigging	Dimmer 90	-	-	Type SO Multicable 35'	Specialty
D18A	Surface Mtd. Junction Box	Orchestra Shell Ceiling 3	1 Gang	Specialty Ltg	EC	Rigging	Dimmer 91	(1) 3/4"	EC	2 #10+G	EC
D18B	Surface Mtd. Distribution Box	Orchestra Shell Ceiling 3	1 Gang	Specialty Ltg	EC	Rigging	Dimmer 91	-	-	Type SO Multicable 35'	Specialty
C1	Flush Mtd. Control Recept.	Control Booth	2 Gang	EC	EC	18" AFF	Net x2 + HL Net x1	(1) 1"	EC	(3) Belden 1583A	EC
C2	Flush Mtd. Control Recept.	House Mix Position	2 Gang	EC	EC	18" AFF	Net x2 + HL Net x1	(1) 1"	EC	(3) Belden 1583A	EC
C3	Rack Mtd. Touch Panel	Stage AV Rack	Rack Plate	Specialty Ltg	Specialty	Rack	Touchpanel Control	(1) 3/4"	EC	(1) Belden 1583A	EC
C4	Pipe Mtd. 2-Port Gateway	Catwalk	Integral Box	Specialty Ltg	EC	42" Pipe	2-Port DMX Gateway	(1) 3/4"	EC	(1) Belden 1583A	EC
C5	Pipe Mtd. 2-Port Gateway	Catwalk	Integral Box	Specialty Ltg	EC	42" Pipe	2-Port DMX Gateway	(1) 3/4"	EC	(1) Belden 1583A	EC
C6	Raceway Network Recept.	Stage Rigging Electric 1	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C7	Raceway Network Recept.	Stage Rigging Electric 2	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C8	Raceway Network Recept.	Stage Rigging Electric 3	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C9	Raceway Network Recept.	Stage Rigging Electric 4	6"x50'-0"x4"	Specialty Ltg	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C10	Flush Mtd. Network Recept.	Stage Walls - Downstage Left	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C11	Flush Mtd. Network Recept.	Stage Walls - Downstage Right	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C12	Flush Mtd. Network Recept.	Stage Walls - Upstage Left	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C13	Flush Mtd. Network Recept.	Stage Walls - Upstage Right	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C14	Flush Mtd. Entry Station	Auditorium Walls - Entry	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C15	Flush Mtd. Entry Station	Light Lock	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C16	Flush Mtd. Entry Station	Auditorium Walls - Entry	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C17	Flush Mtd. Entry Station	Light Lock	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C18	Flush Mtd. Entry Station	Stage Walls - Upstage Left	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C19	Flush Mtd. Entry Station	Stage Walls - Upstage Right	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C20	Flush Mtd. Entry Station	Stage Corridor 1023	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C21	Flush Mtd. Entry Station	Stage Corridor 1021	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471+(1)#14	EC
C22	Gridiron Network Junction Box	Stage Roof	Integral Box	Specialty Ltg	EC	Stage Roof	Net	(1) 3/4"	EC	(1) Belden 1585A	EC
C23	Gridiron Network Junction Box	Stage Roof	Integral Box	Specialty Ltg	EC	Stage Roof	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
C24	Gridiron Network Junction Box	Stage Roof	Integral Box	Specialty Ltg	EC	Stage Roof	Net	(1) 3/4"	EC	(1) Belden 1583A	EC

D Device = Lighting Circuit Distribution Devices
C Device = Lighting Control Devices

HOUSE LIGHTING CONTROL SCHEDULE - PRESET AND ENTRY STATIONS

Relay/Dim	Location	Description	Location	C1, C2 & C3	Entry Stations
RP1-32	House Ltg. Circuit	Pendant Hung Downlight	Stage Apron	Slider Zone 1	
RP1-33	House Ltg. Circuit	Pendant Hung Downlight	Front Orchestra Seating	Slider Zone 2	C14, C16
RP1-34	House Ltg. Circuit	Pendant Hung Downlight	Rear Orchestra Seating	Slider Zone 2	C14, C16
RP1-35	House Ltg. Circuit	Pendant Hung Downlight	Gallery Seating	Slider Zone 3	C14, C16
RP1-36	House Ltg. Circuit	Recessed Downlight	Upper Gallery / Side Boxes	Slider Zone 4	
RP1-37	Work Ltg. Circuit	Recessed Downlight	Main Entry Vestibules L/R	Slider Zone 5	C15,C17
RP1-38	Work Ltg. Circuit	Vertical Channel Light	Stage Perimeter	Button #1	C18,C19
RP1-39	House Ltg. Circuit	Blue Running Lights	Stage Perimeter	Button #7	
RP1-40	House Ltg. Circuit	Aisle/Step Lights	Orchestra Level - House Right	Slider Zone 6	
RP1-41	House Ltg. Circuit	Aisle/Step Lights	Orchestra Level - House Left	Slider Zone 6	
RP1-42	House Ltg. Circuit	Step Lights Right	Gallery Level Seating	Slider Zone 7	
RP1-43	House Ltg. Circuit	Step Lights Left	Gallery Level Seating	Slider Zone 7	
RP1-44	House Ltg. Circuit	Cross Aisle Lights	M12 Tape Light at Cross Aisle	Slider Zone 8	
RP1-45	House Ltg. Circuit	Recessed Downlight	Side Exit House Left	Slider Zone 9	C14, C16
RP1-46	House Ltg. Circuit	Recessed Downlight	Backstage Corridor	Slider Zone 10	C20,C21
RP1-47	House Ltg. Circuit	Side Wall Vertical Strip	Front Left/Right Strip Light	Slider Zone 11	
RP1-48	House Ltg. Circuit	Side Wall Aisle Lights	Orchestra Sides - Left & Right	Slider Zone 12	
Dim-93	Work Ltg. Circuit	Worklights Over Stage	1st Stage Electric	Button #2 + #6	
Dim-94	Work Ltg. Circuit	Worklights Over Stage	2nd Stage Electric	Button #3 + #6	
Dim-95	Work Ltg. Circuit	Worklights Over Stage	3rd Stage Electric	Button #4 + #6	
Dim-96	Work Ltg. Circuit	Worklights Over Stage	4th Stage Electric	Button #5 + #6	

DIMMER 1 / CIRCUIT SCHEDULE

CH	Description	Location	Notes	Emergency
1	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D1	
2	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D1	
3	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D1	
4	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D1	
5	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D2	
6	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D2	
7	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D2	
8	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D2	
9	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D3	
10	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D3	
11	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D3	
12	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D3	
13	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D4	
14	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D4	
15	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D4	
16	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D4	
17	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D5	
18	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D5	
19	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D5	
20	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D5	
21	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D6	
22	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D6	
23	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D6	
24	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D6	
25	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D7	
26	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D7	
27	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D7	
28	Stage Ltg. Dim Circuit	FOH Ltg Catwalk	Device D7	
29	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
30	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
31	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
32	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
33	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
34	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
35	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
36	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
37	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
38	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
39	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
40	Stage Ltg. Dim Circuit	1st Stage Electric	Device D8	
41	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
42	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
43	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
44	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
45	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
46	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
47	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
48	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
49	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
50	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
51	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
52	Stage Ltg. Dim Circuit	2nd Stage Electric	Device D9	
53	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
54	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
55	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
56	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
57	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
58	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
59	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
60	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
61	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
62	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
63	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
64	Stage Ltg. Dim Circuit	3rd Stage Electric	Device D10	
65	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
66	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
67	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
68	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
69	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
70	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
71	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
72	Stage Ltg. Dim Circuit	4th Stage Electric	Device D11	
73	Stage Ltg. Dim Circuit	Stage Left Prosc. Wall	Device D12	
74	Stage Ltg. Dim Circuit	Stage Left Prosc. Wall	Device D12	
75	Stage Ltg. Dim Circuit	Stage Left Prosc. Wall	Device D12	
76	Stage Ltg. Dim Circuit	Stage Left Prosc. Wall	Device D12	
77	Stage Ltg. Dim Circuit	Stage Right Prosc. Wall	Device D13	
78	Stage Ltg. Dim Circuit	Stage Right Prosc. Wall	Device D13	
79	Stage Ltg. Dim Circuit	Stage Right Prosc. Wall	Device D13	
80	Stage Ltg. Dim Circuit	Stage Right Prosc. Wall	Device D13	
81	Stage Ltg. Dim Circuit	Upstage Left Wall	Device D14	
82	Stage Ltg. Dim Circuit	Upstage Left Wall	Device D14	
83	Stage Ltg. Dim Circuit	Upstage Left Wall	Device D14	
84	Stage Ltg. Dim Circuit	Upstage Left Wall	Device D14	
85	Stage Ltg. Dim Circuit	Upstage Right Wall	Device D15	
86	Stage Ltg. Dim Circuit	Upstage Right Wall	Device D15	
87	Stage Ltg. Dim Circuit	Upstage Right Wall	Device D15	
88	Stage Ltg. Dim Circuit	Upstage Right Wall	Device D12	
89	Relay Module	Orchestra Shell Ceiling 1	Device D16A-D16B	
90	Relay Module	Orchestra Shell Ceiling 2	Device D17A-D17B	
91	Relay Module	Orchestra Shell Ceiling 3	Device D18A-D18B	
92	Relay Module	Not Used		
93	Work Ltg. Relay Circuit	Worklights Over Stage	1st Stage Electric	
94	Work Ltg. Relay Circuit	Worklights Over Stage	2nd Stage Electric	EM9
95	Work Ltg. Relay Circuit	Worklights Over Stage	3rd Stage Electric	EM10
96	Work Ltg. Relay Circuit	Worklights Over Stage	4th Stage Electric	

RELAY PANEL (RP1) CIRCUIT SCHEDULE (NON-DIMS)

CH	Description	Location	Notes	Emergency
1	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D1	
2	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D2	
3	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D3	
4	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D4	
5	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D5	
6	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D6	
7	Stage Ltg. Circuit	FOH Ltg Catwalk	Device D7	
8	Stage Ltg. Circuit	1st Stage Electric	Device D8	
9	Stage Ltg. Circuit	1st Stage Electric	Device D8	
10	Stage Ltg. Circuit	1st Stage Electric	Device D8	
11	Stage Ltg. Circuit	1st Stage Electric	Device D8	
12	Stage Ltg. Circuit	2nd Stage Electric	Device D9	
13	Stage Ltg. Circuit	2nd Stage Electric	Device D9	
14	Stage Ltg. Circuit	2nd Stage Electric	Device D9	
15	Stage Ltg. Circuit	2nd Stage Electric	Device D9	
16	Stage Ltg. Circuit	3rd Stage Electric	Device D10	
17	Stage Ltg. Circuit	3rd Stage Electric	Device D10	
18	Stage Ltg. Circuit	3rd Stage Electric	Device D10	
19	Stage Ltg. Circuit	3rd Stage Electric	Device D10	
20	Stage Ltg. Circuit	4th Stage Electric	Device D11	
21	Stage Ltg. Circuit	4th Stage Electric	Device D11	
22	Stage Ltg. Circuit	4th Stage Electric	Device D11	
23	Stage Ltg. Circuit	4th Stage Electric	Device D11	
24	Stage Ltg. Circuit	4th Stage Electric	Device D11	
25	Stage Ltg. Circuit	4th Stage Electric	Device D11	
26	Stage Ltg. Circuit	4th Stage Electric	Device D11	
27	Stage Ltg. Circuit	4th Stage Electric	Device D11	
28	Stage Ltg. Circuit	Stage Box - Stage Left	Device D12	
29	Stage Ltg. Circuit	Stage Box - Stage Right	Device D13	
30	Stage Ltg. Circuit	Stage Box - Upstage Left	Device D14	
31	Stage Ltg. Circuit	Stage Box - Upstage Right	Device D15	
32	House Ltg. Circuit	Pendant Hung Downlight	Stage Apron	
33	House Ltg. Circuit	Pendant Hung Downlight	Front Orchestra Seating	EM1
34	House Ltg. Circuit	Pendant Hung Downlight	Rear Orchestra Seating	EM2
35	House Ltg. Circuit	Pendant Hung Downlight	Gallery Seating	EM3
36	House Ltg. Circuit	Recessed Downlight	Upper Gallery / Side Boxes	EM4
37	Work Ltg. Circuit	Recessed Downlight	Main Entry Vestibules L/R	EM5
38	Work Ltg. Circuit	Vertical Channel Light	Stage Perimeter	EM6
39	House Ltg. Circuit	Blue Running Lights	Stage Perimeter	
40	House Ltg. Circuit	Aisle/Step Lights	Orchestra Level - House Right	
41	House Ltg. Circuit	Aisle/Step Lights	Orchestra Level - House Left	
42	House Ltg. Circuit	Step Lights Right	Gallery / Box Level Seating	
43	House Ltg. Circuit	Step Lights Left	Gallery / Box Level Seating	
44	House Ltg. Circuit	Cross Aisle Lights	M12 Tape Light at Cross Aisle	
45	House Ltg. Circuit	Recessed Downlight	Side Exit House Left	EM7
46	House Ltg. Circuit	Recessed Downlight	Backstage Corridor	EM8
47	House Ltg. Circuit	Side Wall Vertical Strip	Front Left/Right Strip Light	
48	House Ltg. Circuit	Wall Lights	House Left and Right	

1 TH2.3 STAGE LIGHTING SYSTEMS - SCHEDULES

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CINCINNATI NEW YORK

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100% DESIGN DEVELOPMENT

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BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt Washington, KY 40047

BG# 23-050

DATE : 07-24-2023
DRAWN BY : TWB
CHECKED BY : TWB
REVISIONS :

2022-35

TH2.3

AUDIOVISUAL SYSTEMS DRAWING SYMBOLS

Device Descriptions

Symbol	Description
AV	AUDIO NETWORK RECEPTACLE.
FP	FSR FL1200 and FL1500 FLUSH FLOOR BOX.
IA	INTERCOM RECEPTACLE STATION.
IB	INTERCOM SPEAKER STATION.
JBA	JUNCTION BOX FOR AUDIO CONDUIT TERMINATION.
MA	MICROPHONE RECEPTACLE.
PJ	PROJECTOR RECEPTACLE.
PS	PROJECTION SCREEN RECEPTACLE.
SA	LOUDSPEAKER RECEPTACLE PLATE.
S	FLUSH CEILING SPEAKER.
SV	LOUDSPEAKER VOLUME CONTROL.
V	VIDEO DISPLAY/INPUT DEVICE.
CM	VIDEO CAMERA – PAN/TILT/ZOOM.
WA	WIRELESS ANTENNA RECEPTACLE.
EE	EQUIPMENT ENCLOSURE. FREESTANDING AND FURNITURE MTD.

DEVICE #	DESCRIPTION	LOCATION	(HxWxD)	BACK BOX PROVIDED BY	INSTALLED BY	MTD. HGT	CONDUIT	CONDUIT PROVIDED BY	SIGNAL WIRE FILL	WIRE PROVIDED BY
AV1	AV Network Receptacle Panel - Flush	Stage Left Proscenium Wall	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
AV2	AV Network Receptacle Panel - Flush	Stage Right Proscenium Wall	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
AV3	AV Network Receptacle Panel - Flush	Stage - Upstage Rear Wall	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
AV4	AV Network Receptacle Panel - Flush	Orchestra Pit	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
AV5	AV Network Receptacle Panel - Flush	Lighting Control Booth	3 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
CAM1	Camera Receptacle Plate - Flush	Face of Lighting Control Booth	1 Gang	EC	EC	Face of Booth - 7'-6" AFF	See Conduit Riser	EC	By AV Contractor	AV
EE1	Audio Equipment Rack	House Mix Position	R&R Cases Desk	None	AV Contractor	Floor Mounted	See Conduit Riser	EC	By AV Contractor	AV
EE2	Audio Equipment Rack	Stage Right Proscenium Wall	SR40-28	None	AV Contractor	Floor Mounted	See Conduit Riser	EC	By AV Contractor	AV
FP1	AV Receptacle Floor Pocket - Video/Data	Stage Floor	FSR FL-500-P-4-BLK-C	AV Contractor	EC	Flush Floor	See Conduit Riser	EC	By AV Contractor	AV
FP2	AV Receptacle Floor Pocket - Spkr. Mon.	Stage Floor	FSR FL-500-P-4-BLK-C	AV Contractor	EC	Flush Floor	See Conduit Riser	EC	By AV Contractor	AV
IA1	Intercom Recept. Panel - Flush Mtd.	House Mix Position	1 Gang	EC	EC	24" AFF	See Conduit Riser	EC	By AV Contractor	AV
IA2	Intercom Master Station	House Mix Position - EQ Rack EE1	None	None	AV Contractor	Rack Mounted EE1	See Conduit Riser	EC	By AV Contractor	AV
IA3	Intercom Recept. Panel - Flush Mtd.	Lighting Control Booth	1 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
IA4	Intercom Recept. Panel - Flush Mtd.	Lighting Control Booth	1 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
IA5	Intercom Recept. Panel - Flush Mtd.	Lighting Control Booth	1 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
IA6	Intercom Remote Station	Stage Rack - EQ Rack EE2	None	None	AV Contractor	Rack Mounted EE2	See Conduit Riser	EC	By AV Contractor	AV
IB1	Intercom Speaker Station - Flush Mtd.	Band Room	4 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
IB2	Intercom Speaker Station - Flush Mtd.	Green Room	4 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
IB3	Intercom Speaker Station - Flush Mtd.	Concessions	4 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
JBA	Junction Boxes with Conduit KO's	House Mix Position	(3x) 12"x12"x6"	EC	EC	12" AFF to Center	See Conduit Riser	EC	By AV Contractor	AV
MA1	Microphone Recept. Panel - Pipe Mtd.	Lighting Catwalk #1	1 Gang	EC	EC	Pipe Mounted 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
MA2	Microphone Recept. Panel - Pipe Mtd.	Lighting Catwalk #2	1 Gang	EC	EC	Pipe Mounted 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
PJ1	Projector Junction Box - Flush Wall	Lighting Control Booth Ceiling	1 Gang	EC	EC	Ceiling	See Conduit Riser	EC	By AV Contractor	AV
PS1	Projection Screen - Surface Proc. Wall	Recessed Proscenium Soffit	1 Gang	EC	EC	Flush Proscenum Soffit	See Conduit Riser	EC	By AV Contractor	AV
SA1	Speaker Recept. Panel - Flush Mtd.	Proscenium Wall - Audience Side	2 Gang - 3.5" Deep	EC	EC	Flush 24'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
SA2	Speaker Recept. Panel - Flush Mtd.	Proscenium Wall - Audience Side	2 Gang - 3.5" Deep	EC	EC	Flush 24'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
SA3	Speaker Recept. Panel - Flush Mtd.	Face of Proscenium Wall - Stage Left	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
SA4	Speaker Recept. Panel - Flush Mtd.	Face of Proscenium Wall - Stage Right	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
SA5	Speaker Recept. Panel - Flush Mtd.	Band Room	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
SA6	Speaker Recept. Panel - Flush Mtd.	Band Room	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
SV1	Volume Control - Flush Mtd.	Band Room	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
SV2	Volume Control - Flush Mtd.	Green	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
SV3	Volume Control - Flush Mtd.	Concessions	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
SV4	Volume Control - Flush Mtd.	Control Booth	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
S1-S6	Recessed Speaker - Flush Ceiling	Green Room	Integral Back Box	AV Contractor	AV Contractor	Flush Ceiling	See Conduit Riser	EC	By AV Contractor	AV
S7-S10	Recessed Speaker - Flush Ceiling	Lobby	Integral Back Box	AV Contractor	AV Contractor	Flush Ceiling	See Conduit Riser	EC	By AV Contractor	AV
S11-S12	Recessed Speaker - Flush Ceiling	Control Booth	Integral Back Box	AV Contractor	AV Contractor	Flush Ceiling	See Conduit Riser	EC	By AV Contractor	AV
V1	Video Display - Flush Mtd.	Band Room	FSR-PWB100	EC	EC	60" AFF	See Conduit Riser	EC	By AV Contractor	AV
V2	Video Display - Flush Mtd.	Green Room	FSR-PWB100	EC	EC	60" AFF	See Conduit Riser	EC	By AV Contractor	AV
V3	Video Display - Flush Mtd.	Lobby	FSR-PWB100	EC	EC	60" AFF	See Conduit Riser	EC	By AV Contractor	AV
WA1	Wireless Microphone - Flush Mtd.	Lighting Catwalk #2	1 Gang	EC	EC	Pipe Mount 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
WA2	Wireless Microphone - Flush Mtd.	Lighting Catwalk #2	1 Gang	EC	EC	Pipe Mount 42" AFF	See Conduit Riser	EC	By AV Contractor	AV

AV = Audio Network Receptacle Plate
FP = FSR Floor Pocket
IA, IB = Technical Intercom Device
MA = Microphone Receptacle Panel
PJ = Projector JB
PS = Projection Screen JB
SA = Speaker Receptacle Panel
SV = Speaker Volume Control
S = Ceiling Speaker
TP = Touchpanel Control
V = Video Display or Input Device
WA = Wireless Microphone Antenna
CAM = Camera Receptacle Plate
JBA = Audio Junction Box
EE = Equipment Enclosure (Rack)

Cable Types

CABLE TYPE					
A	MICROPHONE	TWO-CONDUCTOR TWISTED, SHIELDED	WEST PENN	292	D25292
B	SPEAKER CABLE 8 OHM	TWO-CONDUCTOR TWISTED, UNSHIELDED	WEST PENN	HA227	25227B
C	LOUDSPEAKER 70V	TWO-CONDUCTOR TWISTED, UNSHIELDED	WEST PENN	HA226	25226B
D	CONTROL PANEL	CAT 5e SHIELDED	CRESTRON	DM-CBL-8G-NP	DM-CBL-8G-P
E	VIDEO UTP – SHIELDED	CAT 5e SHIELDED	CRESTRON	DM-CBL-8G-NP	DM-CBL-8G-P
F	WIRELESS ANTENNA	RG-6/U	BELDEN	9116	9116P
G	VGA VIDEO	MINI HIGH RESOLUTION VGA	EXTRON	MHRVGA	MHRVGAP
H	NETWORK CABLE	CAT 6 SHIELDED	BELDEN	2412	

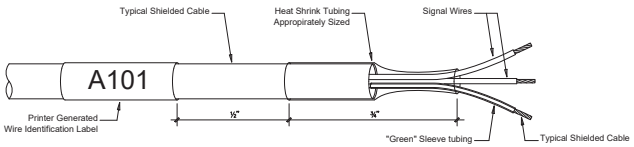
DETERMINE CABLE FILL REQUIREMENTS BASED ON THE DRAWINGS, FUNCTIONALS AND SPECIFICATIONS. CABLE TYPES ARE CITED TO ILLUSTRATE THE TYPE AND QUALITY OF CABLE REQUIRED. UNLESS OTHERWISE NOTED, CABLES FROM OTHER MANUFACTURERS (I.E. BELDEN, WEST PENN, CRESTRON, COMM SCOPE, LIBERTY CABLE, ETC.) WILL BE CONSIDERED ACCEPTABLE IF DATA SHEETS ARE SUBMITTED PRIOR TO INSTALLATION.

PROVIDE 10% SPARE CABLES OR QUANTITY OF 1, WHICHEVER IS GREATER, FOR EACH CONDUIT RUN.

ALLOW FOR 3' SLACK OF CABLE AT RECEPTACLE LOCATIONS AND 15' SLACK AT EQUIPMENT ENCLOSURE.

CABLE PULL SHALL BE CONTINUOUS WITHOUT SPLICES, TERMINATION BLOCKS, OR SOLDER JOINTS.

TYPICAL CABLE END PREPARATION



Cable and Conduit Separation Requirements

AUDIO WIRING DIAGRAM	
GROUP	WIRING TYPE
A	MICROPHONES AND OTHER SENSITIVE WIRING (0 mV TO 100mV)
B	LINE LEVEL WIRING (100 mV TO 10mV)
C	LOUDSPEAKER AND CONTROL WIRING (10V TO 70V)
D	TELEPHONE, VIDEO, CONTROL AND DIGITAL CIRCUITS
E	FIBER OPTIC CABLE

NOTE: THESE WIRING GROUPS MUST NEVER BE INTERMIXED WITHIN A GIVEN CONDUIT RUN
MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT AUDIO GROUPS IS AS FOLLOWS:

AUDIO CONDUIT SEPARATION					
	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E
A	ADJACENT	6"	12"	12"	ADJACENT
B	6"	ADJACENT	12"	6"	ADJACENT
C	12"	12"	ADJACENT	6"	ADJACENT
D	12"	6"	6"	ADJACENT	ADJACENT
E	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT

NOTE: NINETY DEGREE CROSSING IN CLOSE PROXIMITY ARE ACCEPTABLE
MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO WIRING AND OTHER ELECTRICAL SERVICE CONDUIT IS AS FOLLOWS:

ELECTRICAL CONDUIT SEPARATION					
	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E
DIMMER CONTROL LIGHTING	24"	12"	6"	12"	ADJACENT
SCR CONTROLLED SERVICES	24"	12"	6"	12"	ADJACENT
220/440V AC CIRCUITS	6"	6"	AADJACENT	ADJACENT	ADJACENT
ALL OTHER SERVICES	6"	6"	AADJACENT	ADJACENT	ADJACENT

NOTES: HEAVY CURRENT DEMANDS IN OR LONG PARALLEL RUNS WITH THE ABOVE SERVICES MAY DICTATE GREATER SEPARATIONS TO AVOID INTERFERENCE WITH THE AUDIO SYSTEM.

Scope Of Work Notes

ELECTRICAL CONTRACTOR SUPPLIES AND INSTALLS ALL CONDUIT (MAX. 280 FT. RUN), 120vac POWER WIRE, BACK BOXES (U.O.N.) AND CONDUIT MOUNTING HARDWARE (INCLUDING KINDORF FRAMES, ETC.) AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS. SEE ELECT. DWGS.

AUDIO CONTRACTOR SUPPLIES ALL SPECIALTY BACK BOXES (120VAC AND SIGNAL DEVICES AS DEFINED BY THE DRAWINGS AND SPECIFICATIONS) TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION BY ELECTRICAL CONTRACTOR.

AUDIO CONTRACTOR PROVIDES AND INSTALLS ALL WIRE AND CABLE (SIGNAL WIRE ONLY – 120vac BY EC) AS REQUIRED BY THE AUDIO-VISUAL SYSTEMS

AUDIO CONTRACTOR SUPPLIES & INSTALLS ALL EQUIPMENT RACKS AND AUDIO PANELS

AUDIO CONTRACTOR SHALL TERMINATION ALL SIGNAL WIRE AT AUDIO PANELS AND IN EQUIPMENT RACKS. EC SHALL TERMINATE ALL 120VAC WIRE.

AUDIO CONTRACTOR ENERGIZES AND COMMISSIONS THE "SYSTEM" WITH ELECTRICAL CONTRACTOR PROVIDING LABOR AS REQUIRED TO TROUBLESHOOT AND REPAIR AS REQUIRED.

AUDIO CONTRACTOR ASSEMBLES, SETS-UP AND PLUGS-IN ALL "LOOSE EQUIPMENT ITEMS" (INCLUDING BUT NOT LIMITED TO MIXING CONSOLES, SPEAKERS, MICROPHONES, ETC.).

AUDIO CONTRACTOR PROGRAMS ALL SYSTEMS, CONDUCTS TRAINING SESSIONS AND PROVIDES WARRANTY CHECK-UPS AS REQUIRED BY THE SPECIFICATIONS.

ELECTRICAL CONTRACTOR AND AUDIO CONTRACTOR COMPLETE ALL PUNCH LIST ITEMS AS REQUIRED BY THEIR RESPECTIVE SCOPES OF WORK.

NOTE: COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT, AV CONSULTANT AND ELECTRICAL CONTRACTOR.

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100% DESIGN DEVELOPMENT

AV SYSTEMS

BULLITT EAST HIGH SCHOOL – FINE ARTS ADDITION
11450 KY-44
Mt Washington, KY 40047

BG# 23-050

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DRAWN BY : TWB
CHECKED BY : TWB
REVISIONS :

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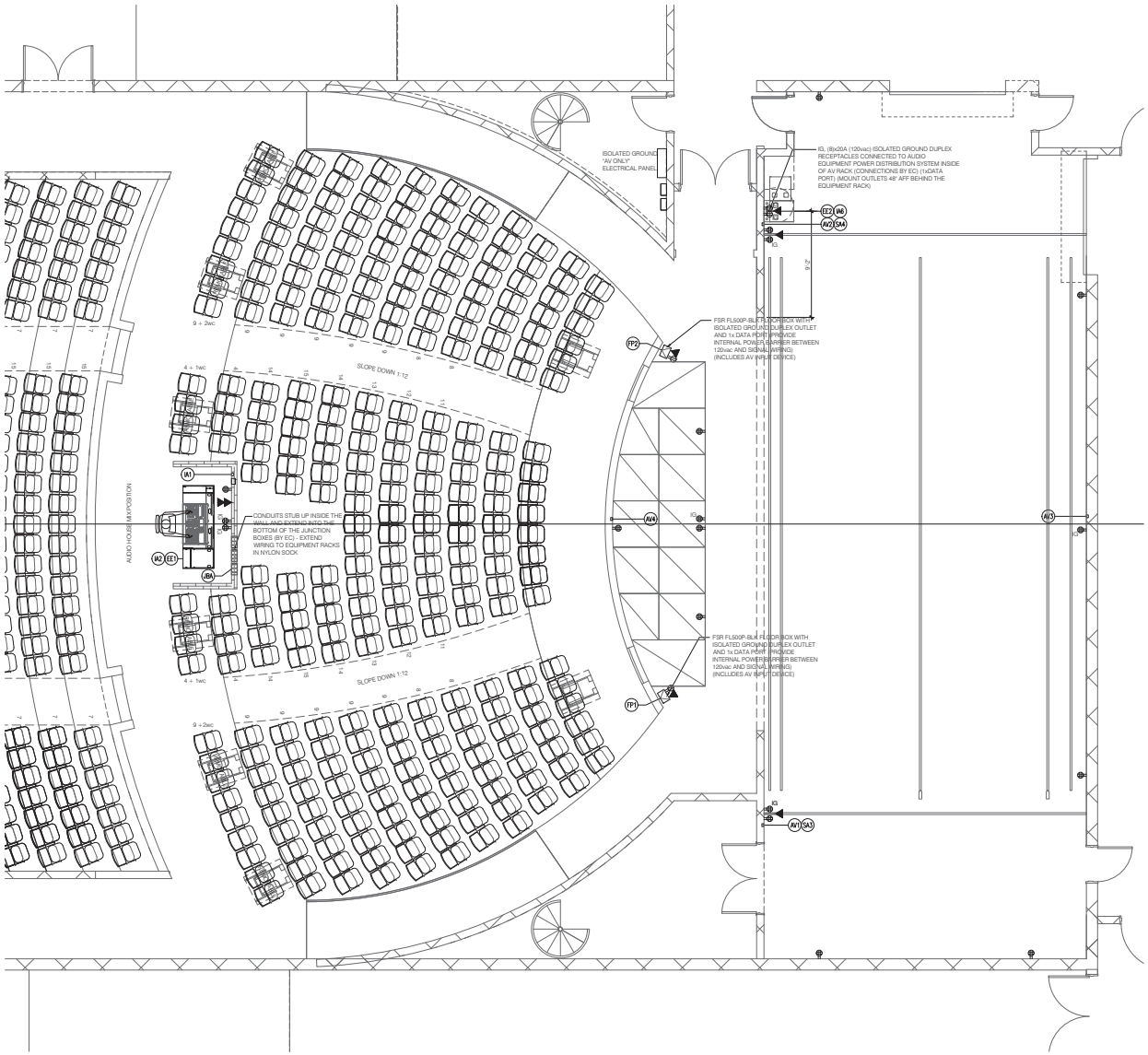
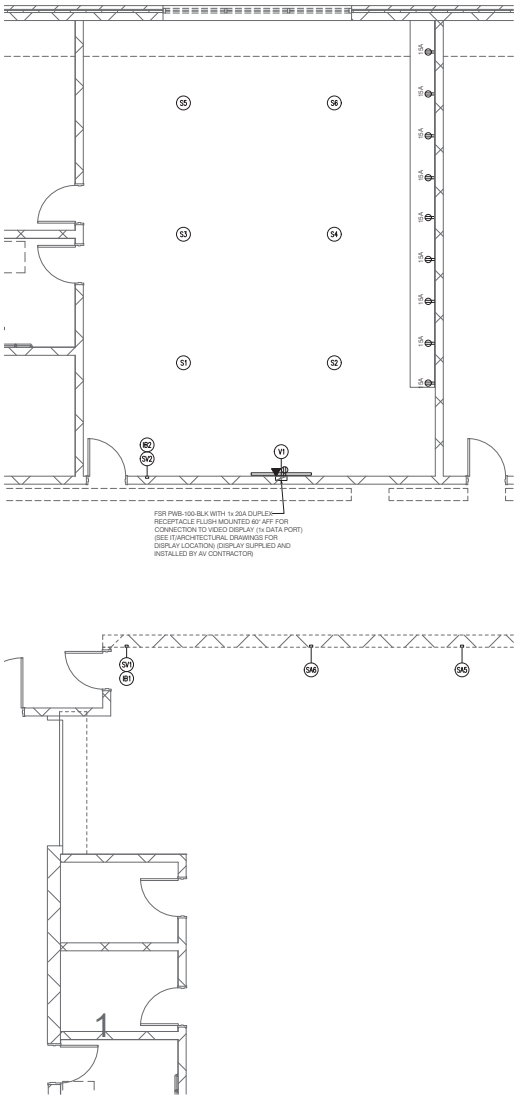
TH3.0



1 / TH3.1 AV SYSTEMS - LOWER LEVEL PART PLAN

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



2 / TH3.1 AV SYSTEMS - LOWER LEVEL PART PLAN

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

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AV SYSTEMS

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Mt Washington, KY 40047

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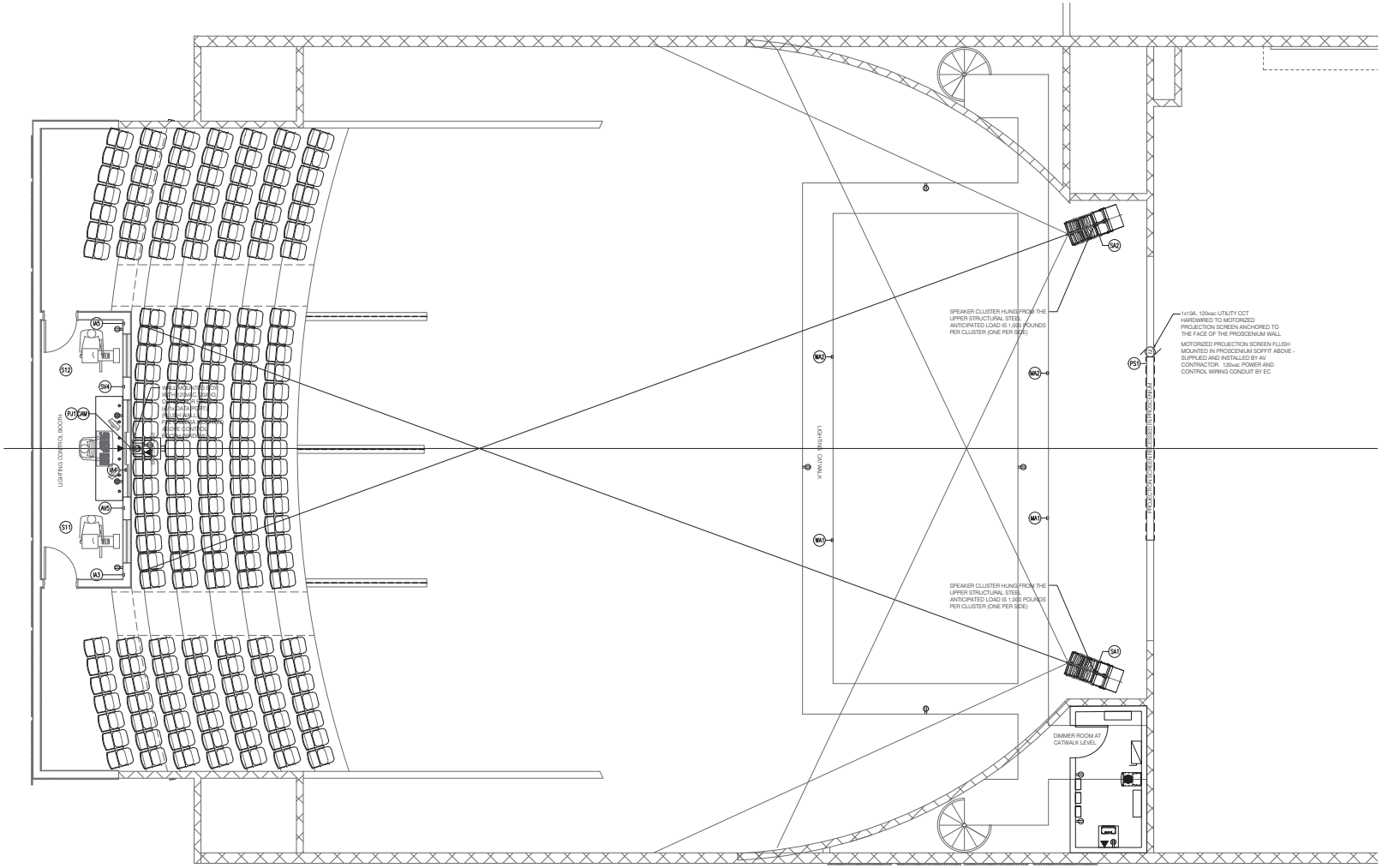

1 / TH3.2 AV SYSTEMS - UPPER LEVEL PLAN

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

100% DESIGN DEVELOPMENT

AV SYSTEMS

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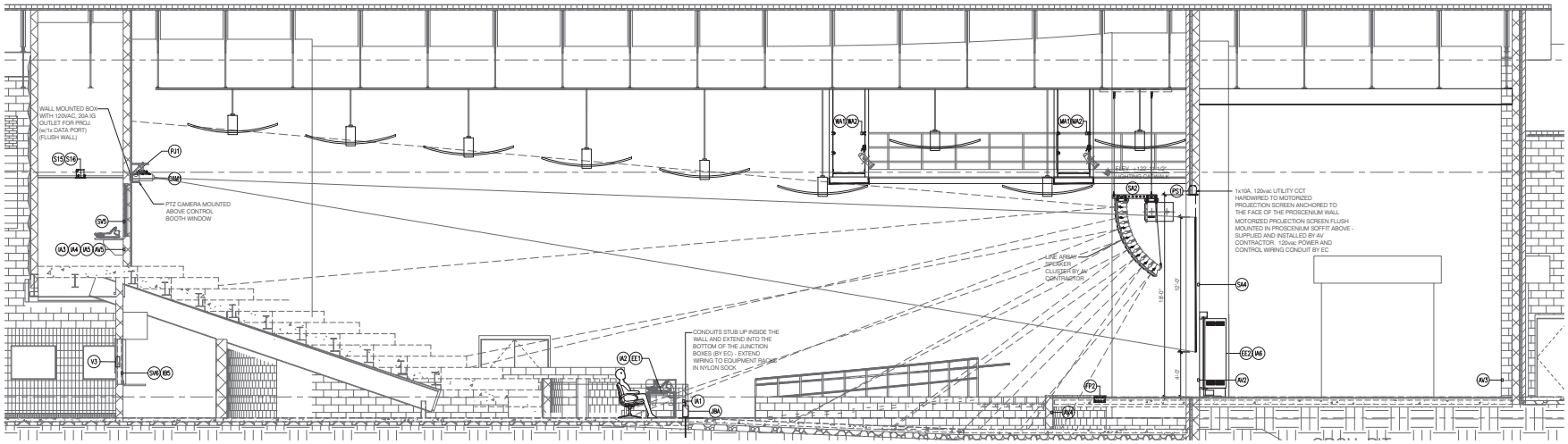
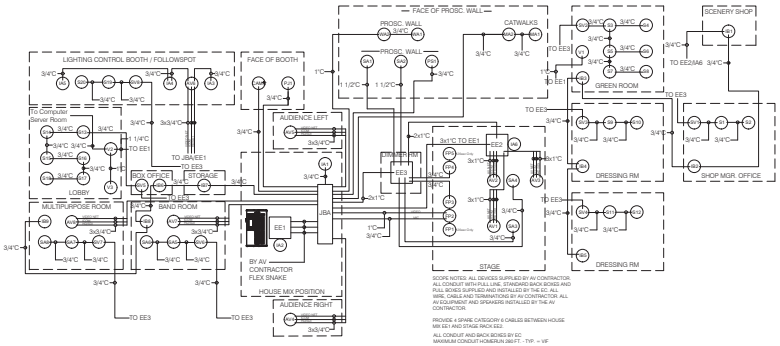


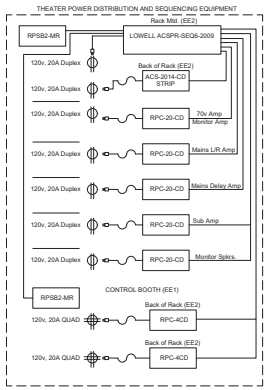
1 TH3.3 AV SYSTEMS - LONGITUDINAL SECTION

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



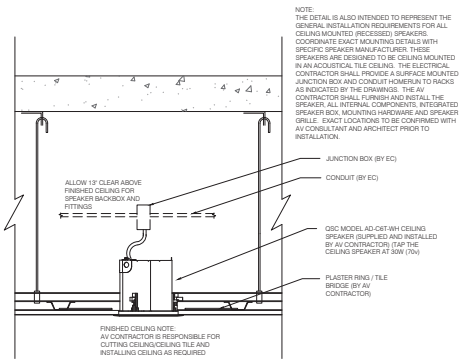
2 TH3.3 AV SYSTEMS - CONDUIT RISER DIAGRAM

NOT TO SCALE



3 TH3.3 AUDIO VIDEO SYSTEMS POWER SEQUENCE

NOT TO SCALE



4 TH3.3 AUDIO VIDEO SYSTEMS 70 VOLT SPEAKER

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

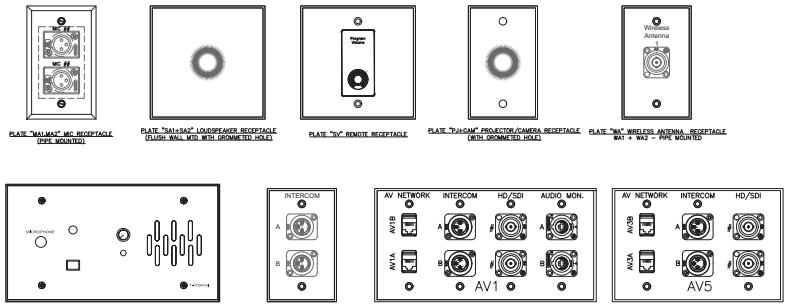


PLATE "M1 thru M3" INTERCOM RECEPTACLE

PLATE "IA" INTERCOM RECEPTACLE (IA1,IA2,IA4,IA5 - FLUSH MOUNTED)

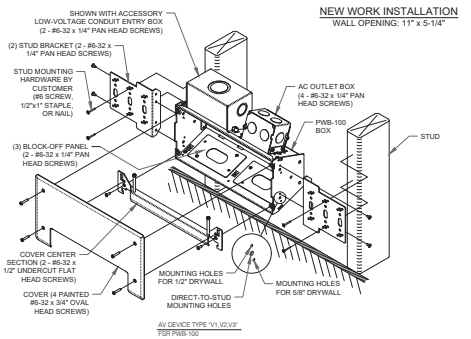
PLATE "AV1 thru AV4" NETWORK RECEPTACLE PLATE

PLATE "AV5" NETWORK RECEPTACLE PLATE

5 TH3.3 AUDIO VIDEO SYSTEMS DEVICE PLATE DETAILS

SCALE: HALF SIZE

NEW WORK INSTALLATION
WALL OPENING: 11" x 5-1/4"



6 TH3.3 AUDIO VIDEO SYSTEMS RECESSED WALL BOX - FSR-PWB100

SCALE: 3"=1'-0"

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AV SYSTEMS

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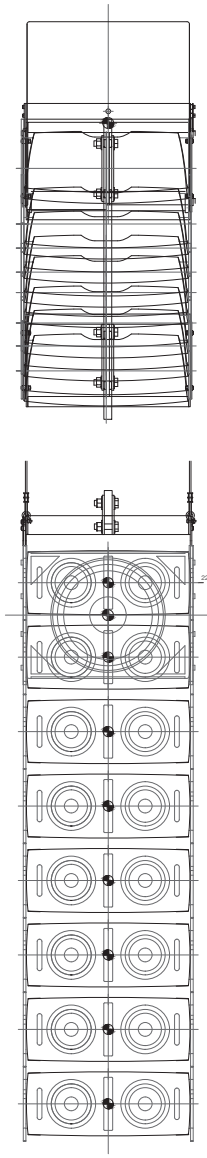
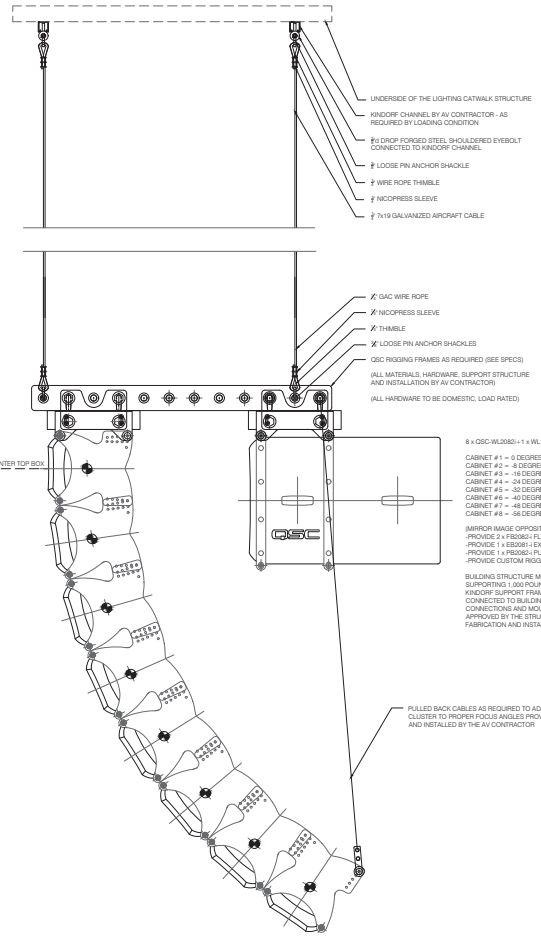
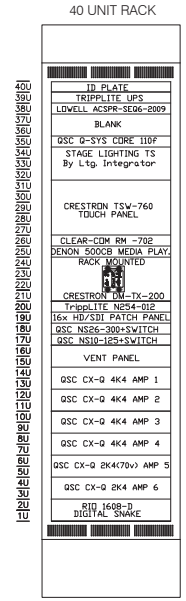




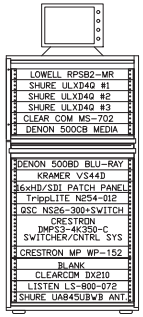
1 TH3.4 AUDIO VIDEO SYSTEMS SPEAKER CLUSTER RIGGING

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



Middle Atlantic Products
SR40-28 w/MAP LVFD-40 DOOR
STAGE RACK (EE2)

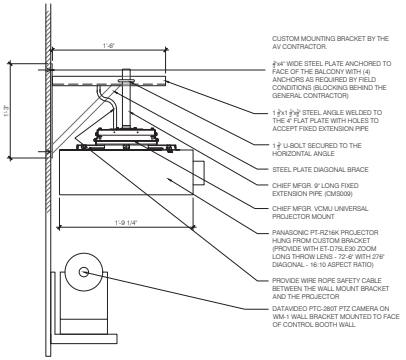
TSW-760-TTK-B-S TABLETOP STAND - PROVIDE WITH 10 FT. UMBILICAL CORD AND CONNECTOR TO ALLOW FOR REMOTE "SECURE" STORAGE WHEN NOT IN USE.



R&R Cases Custom Rack
Desk Rack Elevation
AV RACK (EE1)

2 TH3.4 AUDIO VIDEO SYSTEMS EQUIPMENT RACK ELEVATIONS

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



3 TH3.4 AUDIO VIDEO SYSTEMS PROJECTOR MOUNT DETAIL

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

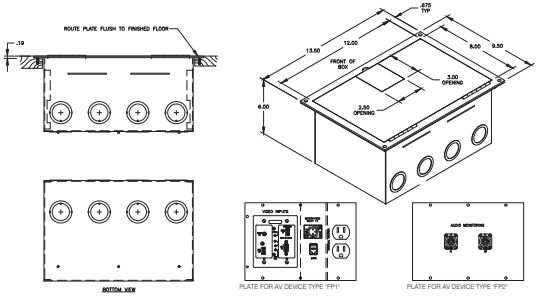


PLATE FOR AV DEVICE TYPE "FP1"

PLATE FOR AV DEVICE TYPE "FP2"

FSR-FLS00-P-4-BLK-C
AV DEVICE TYPES "FP1 and FP2"

4 TH3.4 AUDIO VIDEO SYSTEMS PROJECTOR MOUNT DETAIL

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

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AV SYSTEMS

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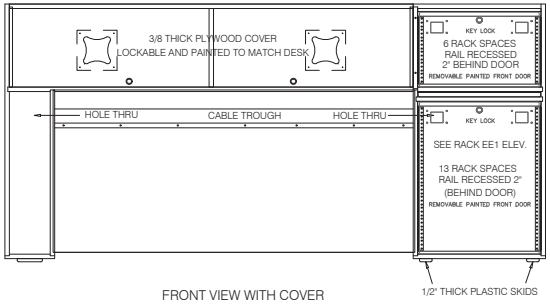
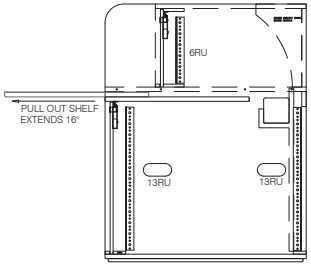
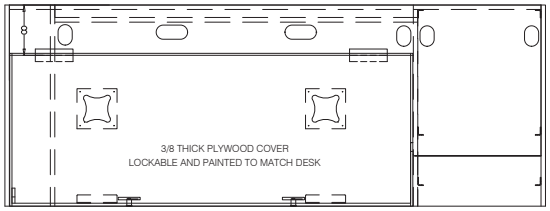


FRONT VIEW WITH COVER



RIGHT SIDE VIEW

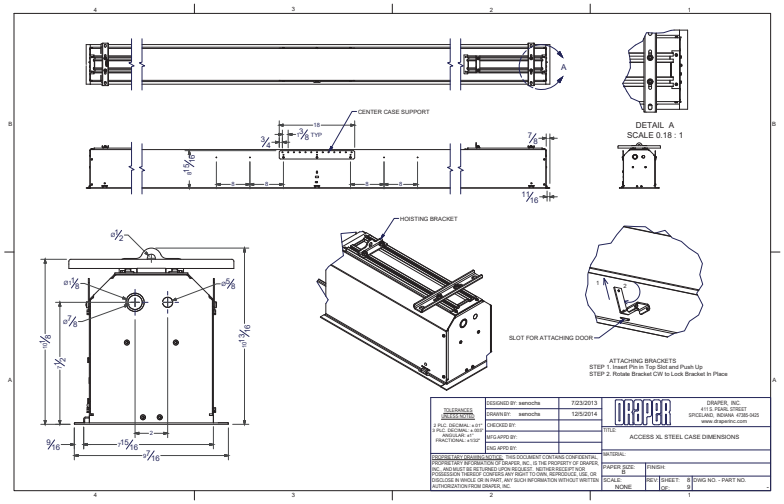
R&R CASES - HMB STANDARD DESIGN
BULLIT COUNTY_HIGH_SCHOOL_RACK_DESK_V1.0



TOP VIEW WITH COVER

1 / TH3.5 AUDIO VIDEO SYSTEMS HOUSE MIX CONSOLE DESK

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



2 / TH3.5 AUDIO VIDEO SYSTEMS PROJECTION SCREEN CUTSHEET

NOT TO SCALE

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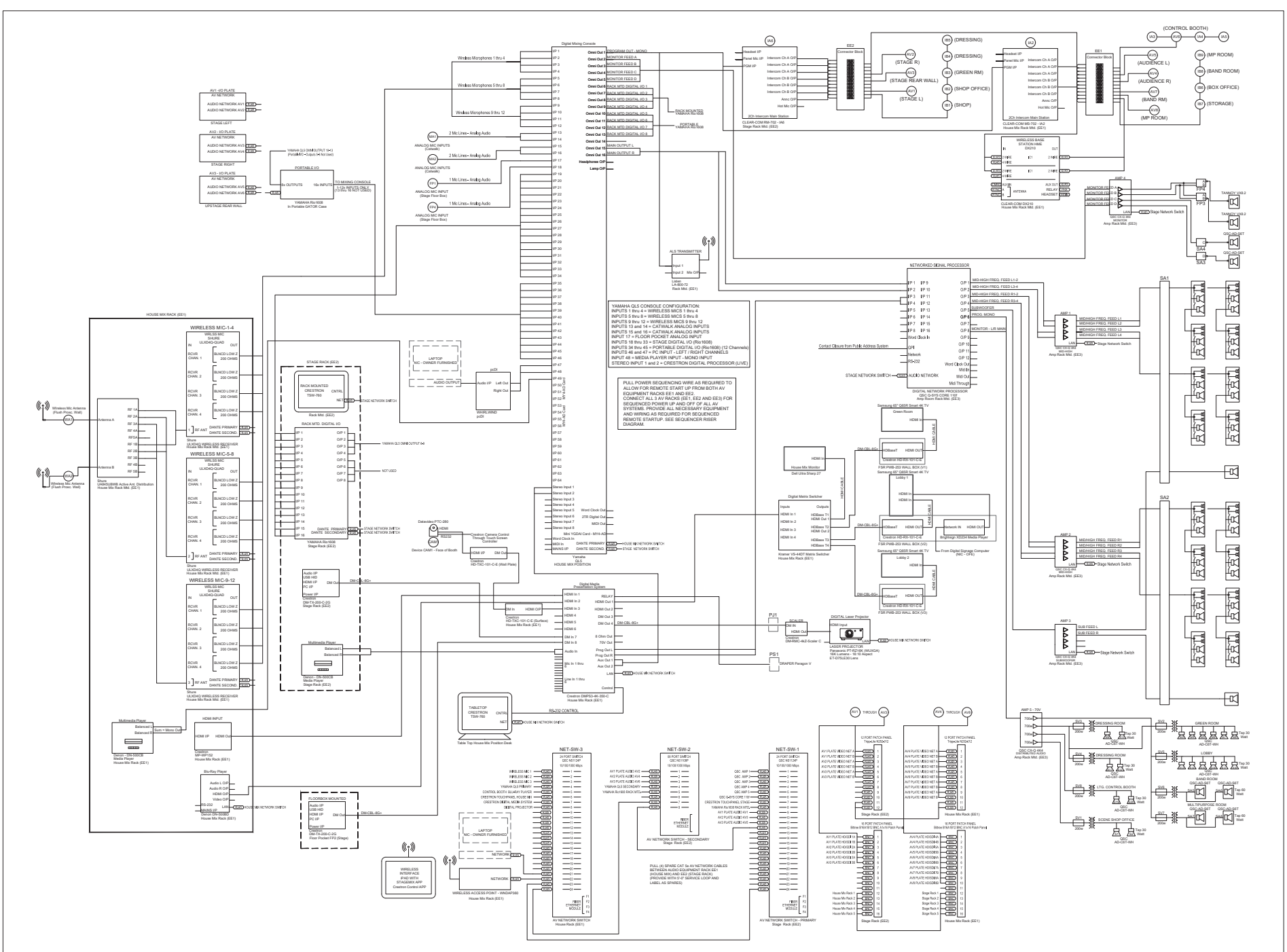
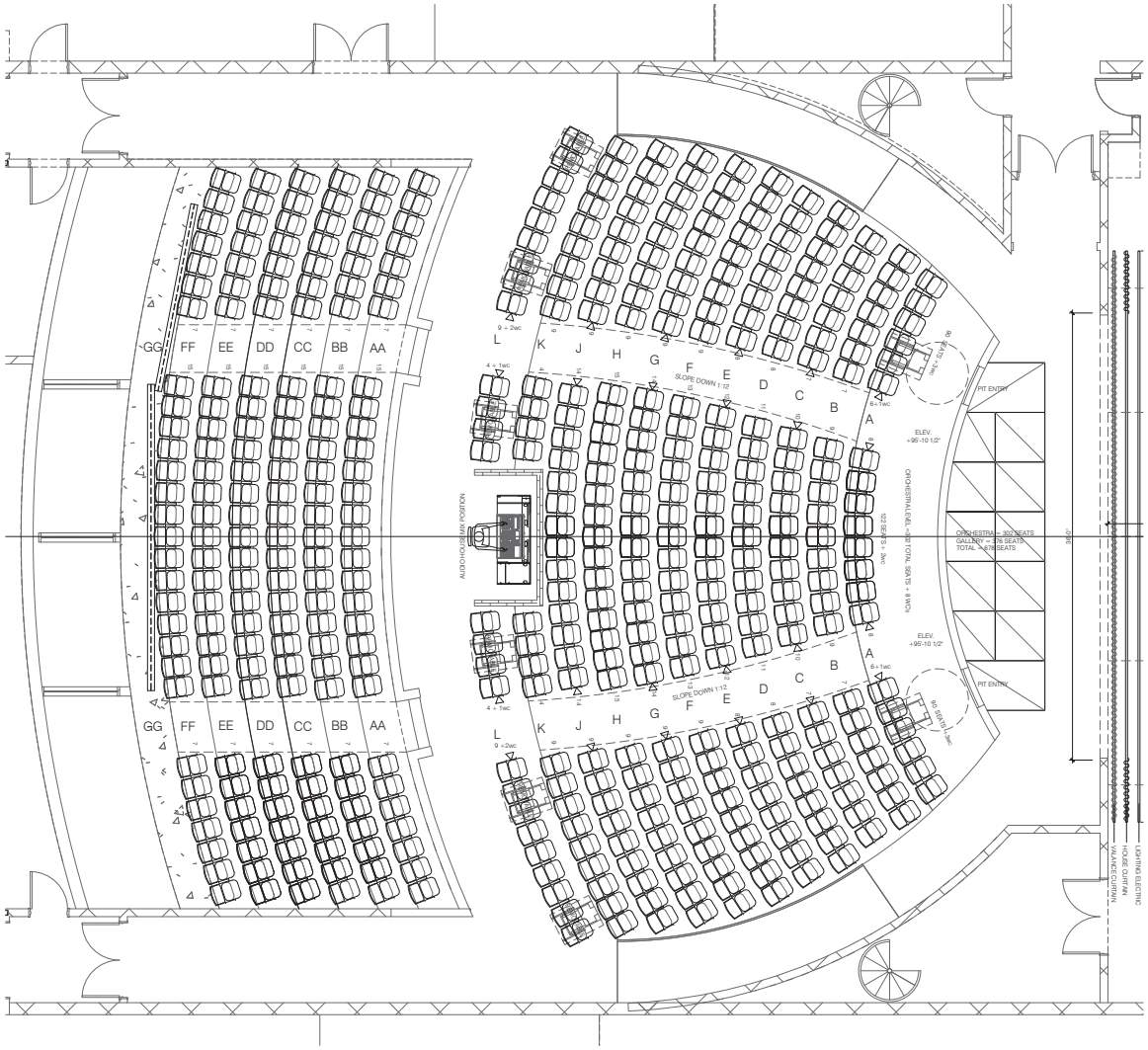
TH3.5



1 TH3.5 AUDIO VIDEO SYSTEMS FUNCTIONAL DIAGRAM



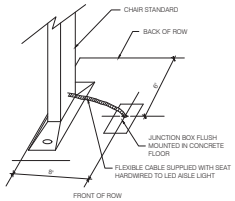
1 TH4.0 SEATING SYSTEMS - MAIN LEVEL FLOOR PLAN

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

KEY

- TYPICAL SEAT 21" WIDTH UNLESS NOTED (MAXIMIZE SEAT WIDTH IN EVERY ROW - ALIGN SEATS AT AISLE AS REQUIRED)
- SEAT WITH END STANDARD AND AISLE LIGHT (LED 12v CONCEALED IN ARMREST)
- END PANEL PIVOTING TRANSFER ARM SEAT
- COMPANION SEAT
- GANGED/REMOVABLE SEATS

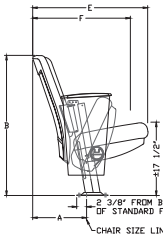
ORCHESTRA LEVEL SEATS SHALL HAVE 19" BACK PITCH.
GALLERY LEVEL SEATS SHALL HAVE 15" BACK PITCH.



CITATION 90.20.86.4
FLOOR MOUNT - 3/4 FOLD SEAT

EXPLANATION OF DIMENSIONS
A = BACK PITCH ALLOWANCE FROM SIZE LINE
B = BACK HEIGHT

E = SEAT IN DOWN POSITION



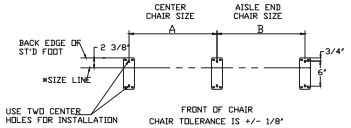
BACK PITCHES AVAILABLE

	9"	11"	13"	15"	19"	23"
A	9 11/16"	10 1/4"	11"	11 5/8"	12 7/8"	14 1/16"
B	34 13/16"	34 5/8"	34 5/16"	34"	33 7/16"	32 11/16"
C	26 3/4"	27 5/16"	28 1/16"	28 11/16"	29 15/16"	31 1/8"
D	24 5/8"	25 3/16"	25 15/16"	26 9/16"	27 13/16"	29"
E	24 1/4"	24 13/16"	25 9/16"	26 3/16"	27 7/16"	28 5/8"
F	20 1/8"	20 15/16"	21 7/16"	22"	23 5/16"	24 1/2"

CURRENT LAYOUT

4C DRILL TEMPLATE

CONCRETE FLOOR - FLOOR MOUNT - 813 FOOT
(4E END - ALL CHAIR SIZES)



CHAIR SIZE (FROM PRINT)	A	B
19"	19"	19"
20"	20"	20"
21"	21"	21"
22"	22"	22"
23"	23"	23"
*NOTE TO INSTALLER 24"	24"	24"

-A & B DIMENSIONS ARE FROM CENTER TO CENTER OF STANDARDS
-USE SIZE LINE WHEN LAYING OUT CHAIR SIZES

END STANDARD END ALLOWANCES:
3" FOR EACH END STANDARD

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1231 S Shelby St, Louisville, KY 40203
TEL 502.499.1110 FAX 502.499.1101

HMBA ARCHITECTS ENGINEERS CONSULTANTS
NEW YORK

BC MOVING FORWARD

100% DESIGN DEVELOPMENT

SEATING SYSTEMS

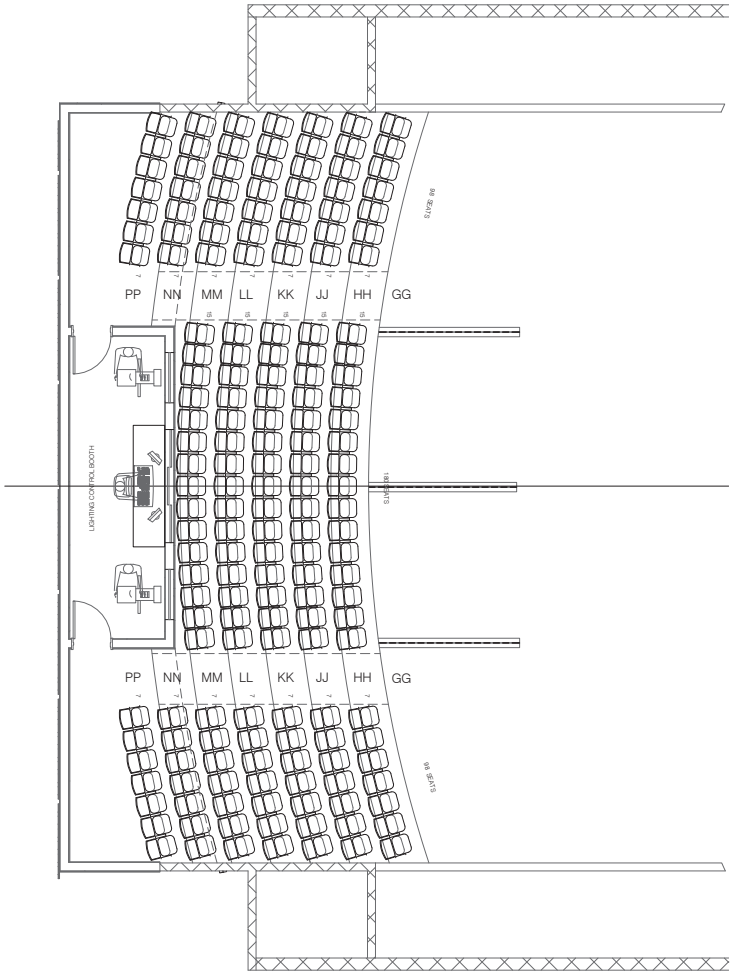
BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
11450 KY-44
Mt Washington, KY 40047

BG# 23-050

DATE : 07-24-2023
DRAWN BY : TWB
CHECKED BY : TWB
REVISIONS :

2022-35

TH4.0



1 TH4.1 SEATING SYSTEMS - UPPER LEVEL FLOOR PLAN

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

100% DESIGN DEVELOPMENT

SEATING SYSTEMS

BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION

1145KY-44

Mt Washington, KY 40047

BG# 23-050

DATE : 07-24-2023

DRAWN BY : TWB

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REVISIONS :

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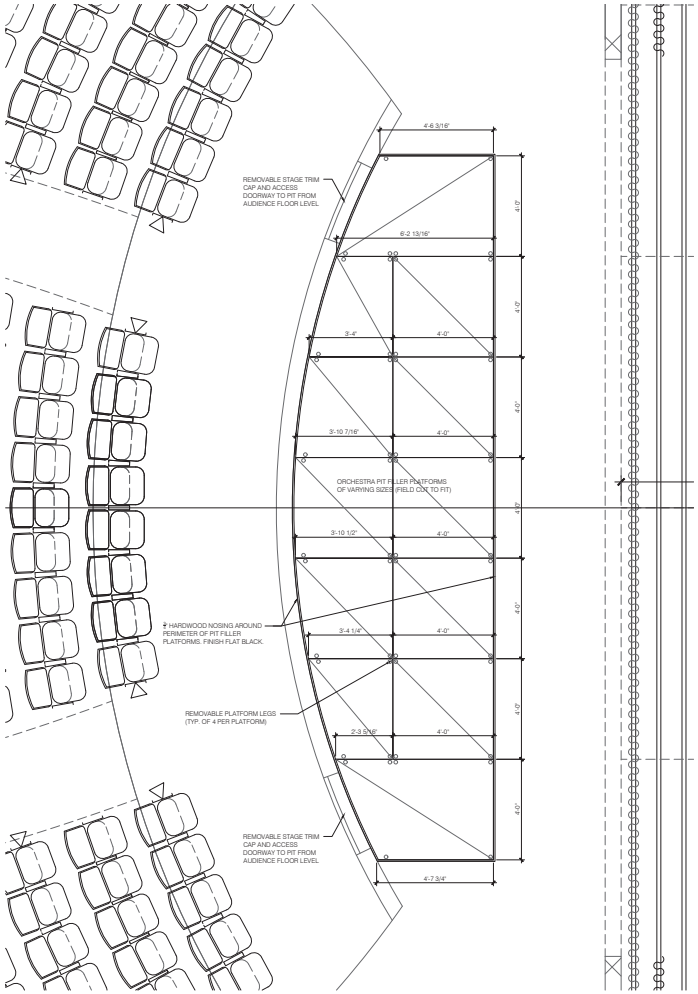
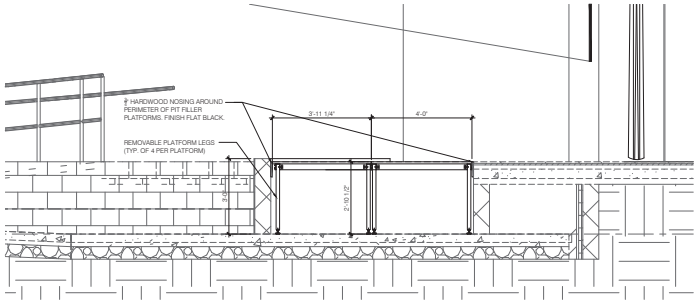


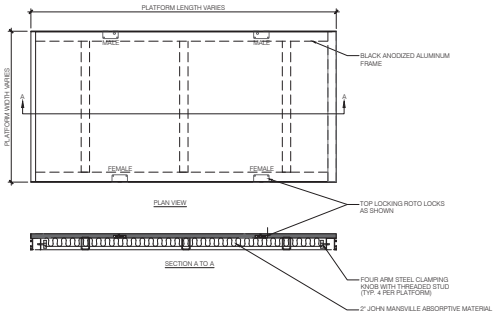
1 TH5.0 PIT FILLER PLATFORM SYSTEMS - PLAN

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



2 TH5.0 PIT FILLER PLATFORM SYSTEMS - SECTION

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



3 TH5.0 PIT FILLER PLATFORM SYSTEMS - DETAIL

SCALE: 1" = 1'-0"

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100% DESIGN DEVELOPMENT

PIT FILLER PLATFORM SYSTEMS

BULLITT EAST HIGH SCHOOL - FINE ARTS ADDITION
1140 KY-44
Mt Washington, KY 40047

BG# 23-050

DATE : 07-24-2023
DRAWN BY : TWB
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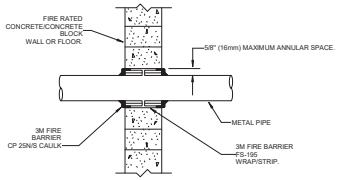
REVISIONS :

2022-35

TH5.0



NOTES:

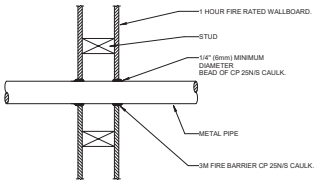
1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
3. USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILL OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH A CONCRETE WALL

NOT TO SCALE

FIRE STOPPING NOTES:

1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRESTOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED.
2. A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT HOSPITAL ENGINEER AND CMTA TO ADVISE OF DATE AND TIME OF THIS MEETING.
3. ALL PENETRATIONS WILL BE REVIEWED BY THE HOSPITAL ENGINEER OR CMTA. PRIOR TO INSPECTION, ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.

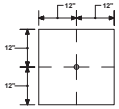


NOTES:

1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL

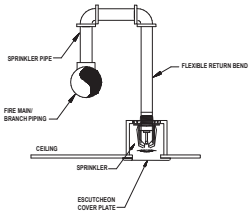
NOT TO SCALE



SPRINKLERS TO BE INSTALLED
IN
CENTER OF 2x2 CEILING TILES.

2x2 CEILING TILE DETAIL

SCALE: NONE



RETURN BEND DETAIL

SCALE: NONE CONCEALED

EXISTING FLOW TEST

STATIC:

RESIDUAL:

FLOW:

DATE:

HYDRANT:

BY:

GENERAL FIRE PROTECTION NOTES:

A. THE ENTIRE BUILDING SHALL BE 100% PROTECTED WITH A FULLY AUTOMATIC FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA (13-2013, 20-2013), STATE AND LOCAL CODES.

B. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE ALL APPLICABLE ARCHITECTURAL FLOOR PLANS, SECTIONS, AND REFLECTED CEILING PLANS FOR LAYING OUT SPRINKLERS. 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 MAY BE APPLIED, IE MECHANICAL SPACES, ETC.). REFER TO FLOOR PLANS FOR LOCATIONS AND SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND MODELS.

D. ALL SPRINKLERS LOCATIONS SHALL BE COORDINATED WITH ALL OTHER CEILING RELATED DEVICES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CEILING CONSTRUCTION.

E. 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, PIPING, CONDUIT, ALL EQUIPMENT, LIGHTS, CABLE TRAYS, 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 ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.

I. CONTRACTOR TO PROVIDE UPDATED FLOW TEST. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO THE M/E ENGINEER. REFER TO CHART ON THIS SHEET FOR PREVIOUS FLOW INFORMATION. PROVIDE FIRE PUMP SIZING BASED ON FLOW TEST AND HYDRAULIC CALCULATIONS.

J. THE SPARE SPRINKLERS, WRENCH AND CABINET SHALL BE LOCATED IN THE FIRE PUMP ROOM.

K. ONLY CERTIFIED TECHNICIANS APPROVED BY THE LOCAL WATER COMPANY SHALL INSTALL OR TEST BACKFLOW PREVENTERS.

L. CERTIFIED CONTRACTOR SHALL TEST BACKFLOW PREVENTER AFTER INSTALLATION, PROVIDE TEST RESULTS (INCLUDE IN OPERATION AND MAINTENANCE MANUALS).

M. BUILDING SHALL BE CLASSIFIED AS LIGHT/ORDINARY HAZARD. LIGHT HAZARD AREAS (IE. GENERAL POPULATION, BEDROOMS, RESTROOMS, 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. COORDINATE ALL REQUIRED SPRINKLER DENSITIES WITH THE OWNERS INSURANCE UNDERWRITER AND USE THE GREATER. PROVIDE PLACARD AT INCOMING FIRE SERVICE.

N. COORDINATE ALL SPRINKLER PIPE ROUTINGS WITH ALL ELECTRICAL EQUIPMENT.

O. THE CONTRACTOR SHALL INSURE THAT ALL PENETRATIONS OF THE AIR BARRIER BE SEALED TO MAINTAIN AN AIR TIGHT BUILDING.

P. FLOOR CONTROL VALVE ASSEMBLIES FOR EACH FIRE ZONE SHALL CONSIST OF, BUT ARE NOT LIMITED TO THE FOLLOWING: CONTROL VALVE WITH FLOW & TAMPER SWITCH, PRESSURE GAUGES, DRAIN VALVE WITH BYPASS, ETC.

Q. ALL AREAS HAVING CEILING SHALL BE PROVIDED WITH CONCEALED STYLE SPRINKLERS UNLESS NOTED OTHERWISE.

R. COLOR FINISHES OF ALL SPRINKLERS/ESCUTCHEONS/COVER PLATES SHALL BE COORDINATED WITH ARCHITECT/CEILING.

S. ALL AREAS HAVING NO CEILINGS SHALL BE PROVIDED WITH UPRIGHT TYPE SPRINKLERS.

T. 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.)

U. COORDINATE LOCATIONS OF THE FOLLOWING FIRE PROTECTION APARATUS' WITH 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.

V. 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.

W. ALL SPRINKLERS LOCATED IN IDF/MDF AND ELECTRICAL ROOMS SHALL BE HIGH TEMPERATURE SPRINKLERS WITH PROTECTIVE WIRE CAGES. DO NOT ROUTE SPRINKLER PIPING THROUGH THE IDF/MDF ROOMS AND DO NOT LOCATE SPRINKLERS PIPING ABOVE EQUIPMENT. PROVIDE SIDEWALL SPRINKLERS.

X. PROVIDE SPRINKLER COVERAGE BENEATH THE LOWEST LEVEL OF STAIR TREADS WHERE THE AREAS COULD BE UTILIZED FOR POTENTIAL STORAGE. SPRINKLER PIPING SHALL BE CONCEALED INSIDE WALLS AND UTILIZE SIDEWALL STYLE SPRINKLERS.

Y. PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW FLOATING CLOUDS 48" OR GREATER IN SIZE. NO EXPOSED PIPING TO BE LOCATED BELOW ANY SUSPENDED CEILING ASSEMBLES.

Z. PROVIDE SEISMIC BRACING AS REQUIRED BY NFPA AND LOCAL BUILDING CODE STANDARDS AND REGULATIONS FOR SEISMIC DESIGN CATEGORY C.

AA. ALL SPRINKLERS LOCATED IN SHOWER RELATED AREA SHALL BE CORROSION RESISTANT STYLE SPRINKLERS.

FIRE STOPPING NOTES:

1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED.

   ALL PIPES MUST BE FIRESTOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED.

2. A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT FACILITY ENGINEER TO ADVISE OF DATE AND TIME OF THIS MEETING.

3. ALL PENETRATIONS WILL BE REVIEWED BY THE FACILITY ENGINEER OR CMTA. PRIOR TO INSPECTION, ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.

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BG MOUNTAINS FOREWARDED

100% DESIGN DEVELOPMENT

FIRE PROTECTION LEGEND AND DETAILS

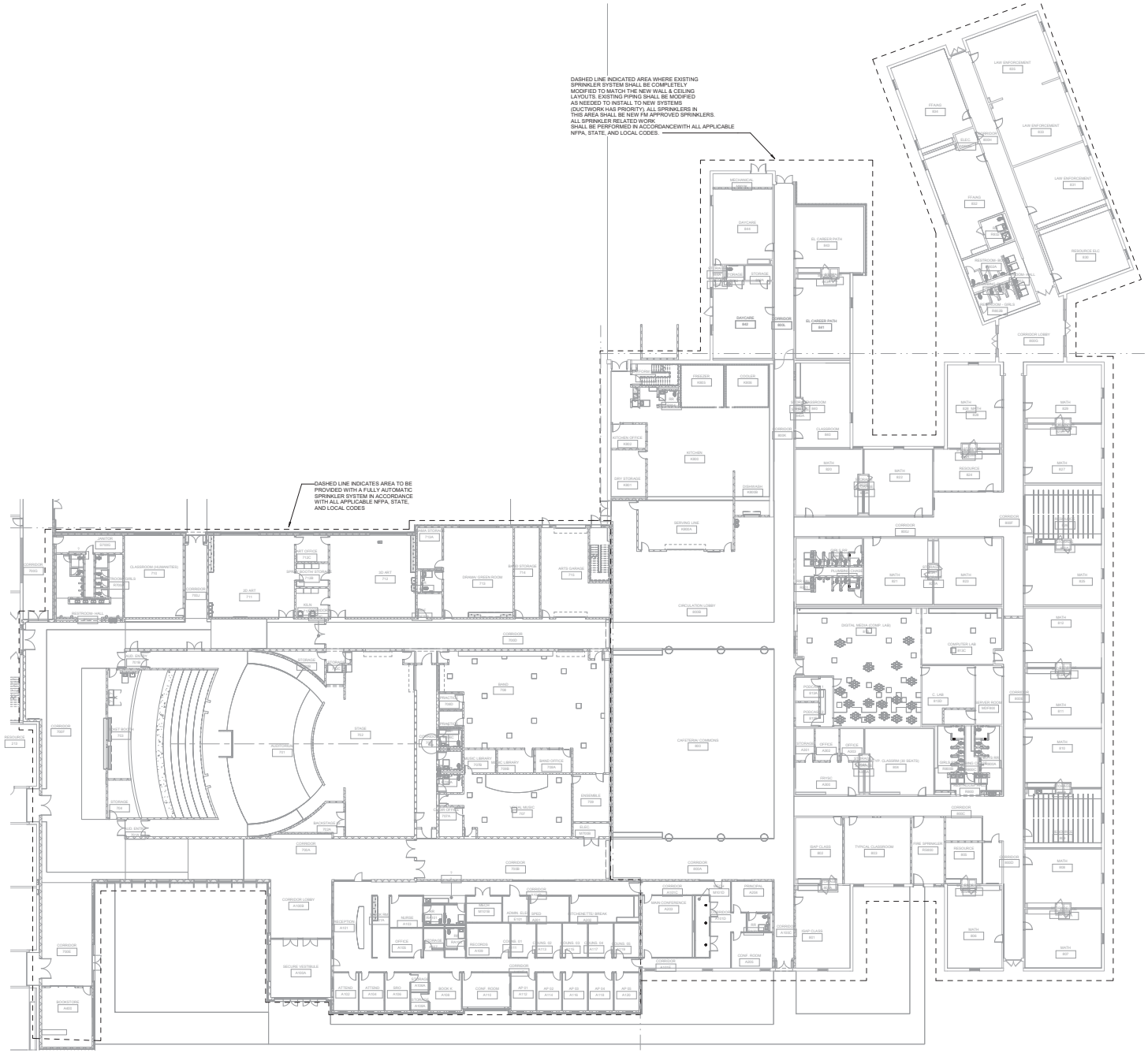
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : AME
CHECKED BY : SKA
REVISIONS :

2022-35

FP1.0



1 FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/16" = 1'-0"

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studio

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FIRST FLOOR PLAN – FIRE PROTECTION

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : AME
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REVISIONS :

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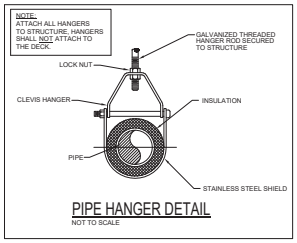
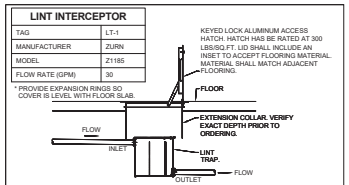


PIPE HANGER DETAIL
NOT TO SCALE

LINT INTERCEPTOR	
TAG	LT-1
MANUFACTURER	ZURN
MODEL	Z1185
FLOW RATE (GPM)	30



INSTALLATION DETAIL - LINT TRAP (BELOW GROUND)
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

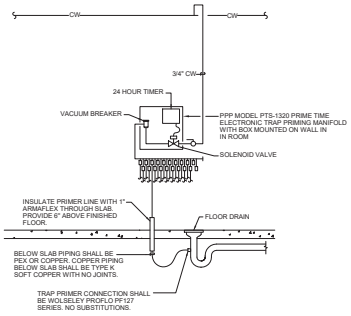
DESIGNATOR	FIXTURE	CW	HW	SAN	VENT
P-1	WATER CLOSET - FLOOR SET - ADA	1 1/4"	--	4"	2"
P-1A	WATER CLOSET - FLOOR SET	1 1/4"	--	4"	2"
P-2	LAVATORY, COUNTERTOP - RECTANGLE	1/2"	1/2"	2"	1 1/2"
P-2A	LAVATORY, INTEGRAL BOWL - ADA - RECTANGLE	1/2"	1/2"	2"	1 1/2"
P-2B	LAVATORY, WALL HUNG - ADA	1/2"	1/2"	2"	1 1/2"
P-3	URINAL	3/4"	--	2"	1 1/2"
P-3A	URINAL - ADA	3/4"	--	2"	1 1/2"
P-4	SINGLE COMP. SINK - RECTANGLE	1/2"	1/2"	2"	1 1/2"
P-5	ELEC. WATER COOLER - 2 STATION - BOTTLE FILLER	1/2"	--	2"	1 1/2"
P-6	JANITOR SINK	3/4"	3/4"	3"	1 1/2"
P-7	WASHER BOX	1/2"	1/2"	2"	1 1/2"
P-8	ICE MAKER / COFFEE MAKER WATER CONNECTION BOX	1/2"	--	--	--
P-9	SHOWER	1/2"	1/2"	2"	1 1/2"
P-10	EMERGENCY SHOWER / EYEWASH	1"	1"	--	--
HB	HOSE BIBB	1/2"	--	--	--
FPWH	FREEZE-PROOF WALL HYDRANT	3/4"	--	--	--
FD-1	TOILET ROOM FLOOR DRAIN	--	--	3"	1-1/2"
FD-2	HEAT PUMP FLOOR DRAIN	--	--	3"	1-1/2"
FD-3	MECHANICAL ROOM FLOOR DRAIN	--	--	4"	2"
FS-1	FLOOR SINK	--	--	4"	2"

NOTES:

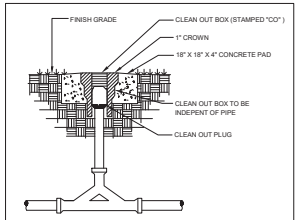
- PIPE SIZES ARE AS INDICATED UNLESS OTHERWISE NOTED ON FLOOR PLANS AND RISER DIAGRAMS MINIMUM 2" SANITARY PIPING UNDERGROUND. PROVIDE ALL REQUIRED PIPING TO FIXTURES
- INDICATED ON THE FLOOR PLANS, INDICATED WITH A " P" DESIGNATION. PROVIDE PIPING OF SIZE INDICATED IN THIS SCHEDULE.

PLUMBING LEGEND

ABOVE FINISHED FLOOR	AFF
CLEANOUT	CO
COLD WATER	CW
DOMESTIC WATER CIRCULATING PUMP	DP
EXPANSION TANK	ET
EXTERIOR CLEANOUT	ECO
FLOOR DRAIN	FD
FREEZE PROOF WALL HYDRANT	FPWH
GENERAL CONTRACTOR	GC
HOSE BIBB	HB
HOT WATER	HW
MANHOLE	MH
NOT TO SCALE	NTS
OPEN RECEPTACLE	OR
POLYVINYL CHLORIDE	PVC
PUMP DISCHARGE	PD
SUMP PUMP	SP
TYPICAL	TYP
VENT THROUGH ROOF	VTR
WATER HEATER	WH
SANITARY PIPING	SAN
SANITARY VENT PIPING	V
DOMESTIC COLD WATER PIPING	
DOMESTIC HOT WATER PIPING (120° F)	
DOMESTIC HOT WATER RETURN PIPING (120° F)	
NATURAL GAS PIPING	G
NATURAL GAS PIPING (2.5 PSIG)	2.5# G
RELIEF VALVE DISCHARGE	RVD
PRESSURE RELIEF VALVE	
UNION	
DIGITAL THERMOMETER	
PRESSURE GAUGE	
GATE VALVE	
BALANCING VALVE	
SOLENOID VALVE	
GAS SHUT-OFF VALVE	
CHECK VALVE	
DOUBLE CHECK VALVE ASSEMBLY	
BALL VALVE	
BALL VALVE IN RISER	
PIPING ELBOW (TURNED UP/DOWN)	
PIPING TEE (TURNED UP/DOWN)	
REDUCED PRESSURE BACKFLOW PREVENTER	



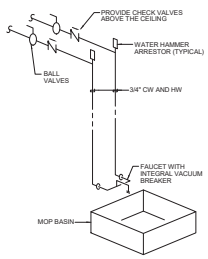
FLOOR DRAIN (FD-3)
ELECTRONIC TRAP PRIMER PIPING SCHEMATIC
NOT TO SCALE
MECHANICAL ROOM



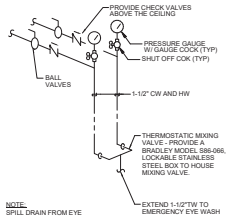
EXTERIOR 2-WAY CLEANOUT DETAIL
NOT TO SCALE

SUMP PUMP (ELEVATOR)	
TAG	SP-1
MANUFACTURER	WEIL PUMP
MODEL	1456-OSS
HEAD (FT)	25
GPM	50
HP	0.5
VOLTAGE / MAX FUSE	115V / 1 PH

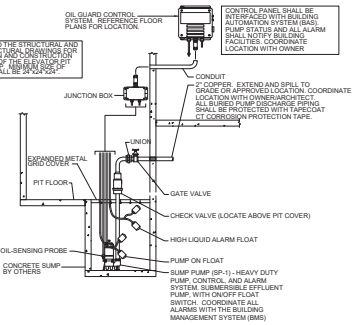
REMARKS:
PROVIDE ALL NECESSARY STARTERS, CONTROLS, DISCONNECTS. COORDINATE ALL CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.



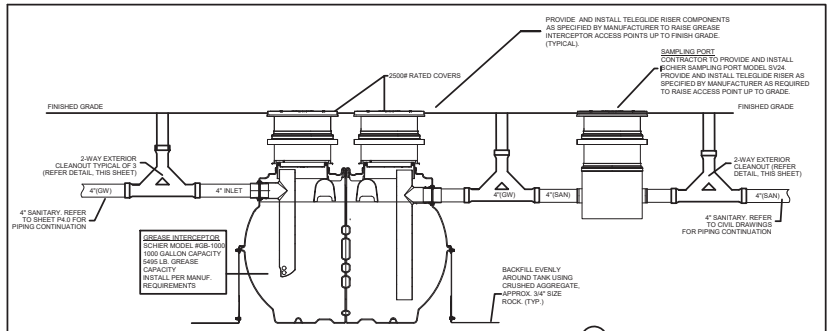
MOP BASIN DETAIL (P-6)
NOT TO SCALE



EMERGENCY EYE WASH/
SHOWER STATION (P-10 / P-10A)
NOT TO SCALE



SUMP PUMP (ELEVATOR) DETAIL (SP-1)
NOT TO SCALE



1000 GALLON GREASE INTERCEPTORS IN SERIES DETAIL
NOT TO SCALE
GI 1

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MCNAMEE POROSKO

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PLUMBING LEGEND AND DETAILS

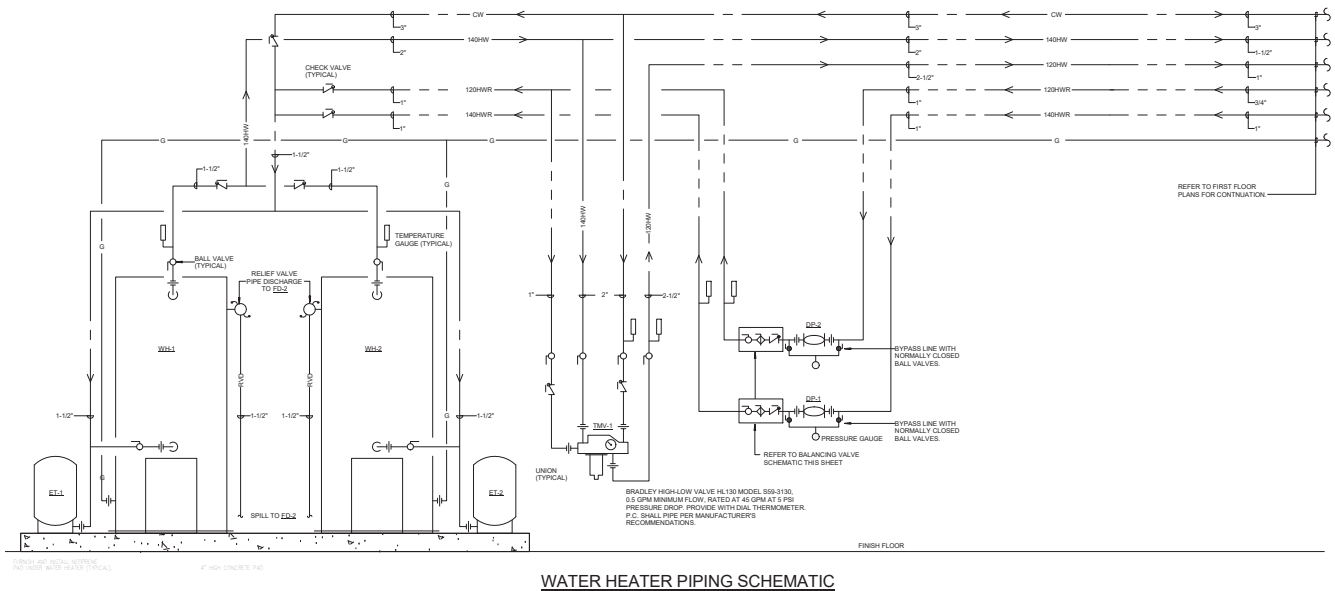
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : AME
CHECKED BY : SKA
REVISIONS :

2022-35

P1.0



WATER HEATER PIPING SCHEMATIC

NOT TO SCALE

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PLUMBING DETAILS

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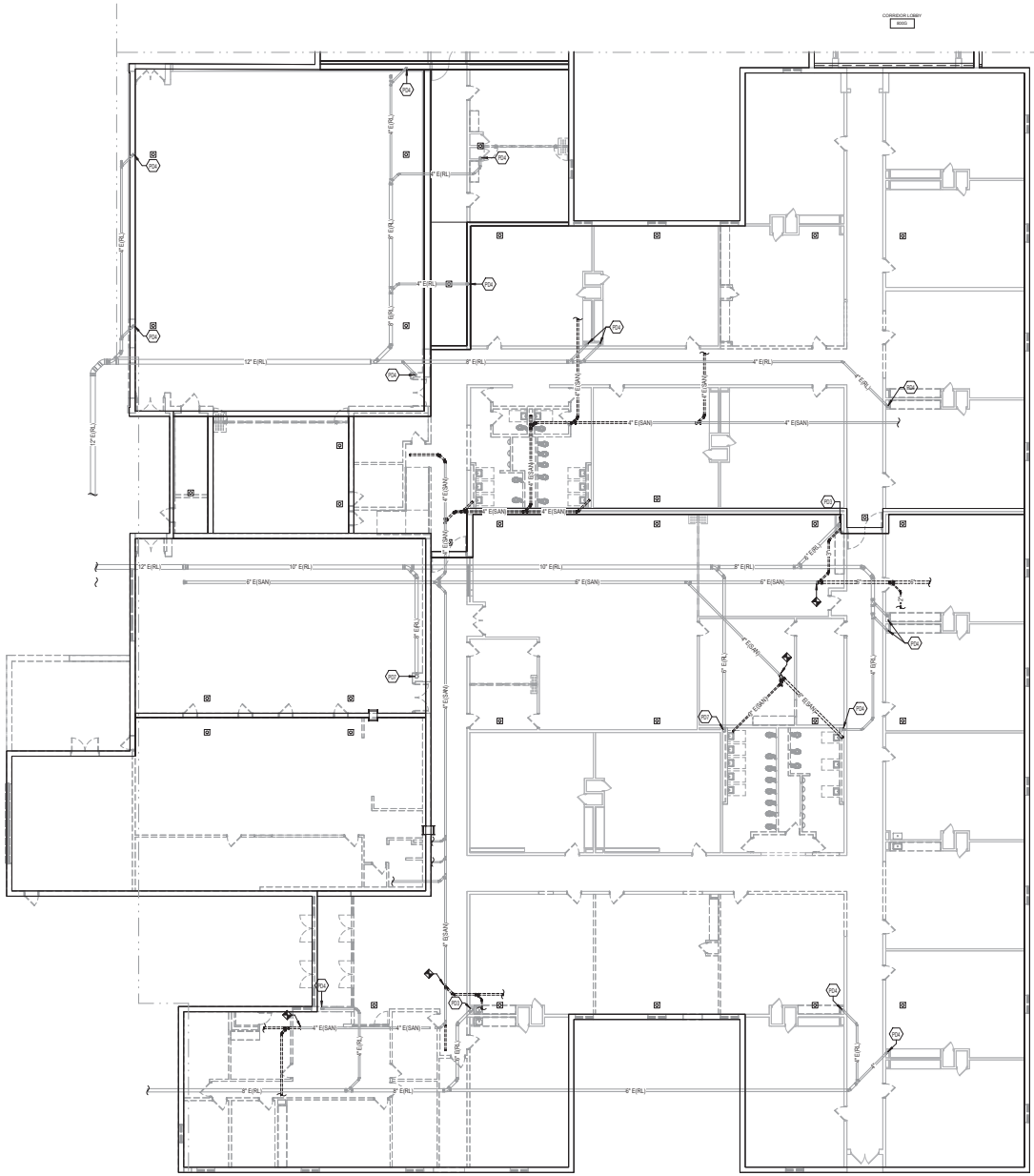

1 FIRST FLOOR PLAN - PLUMBING - BELOWSLAB DEMOLITION - AREA B
SCALE: 3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

A. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.

B. ANY HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, ETC. CREATED AS A RESULT OF THE PLUMBING SYSTEMS DEMOLITION SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES. PATCH SHALL BE PERFORMED BY QUALIFIED TRADESMAN. REFER TO ARCHITECTURAL CUT AND PATCH SPECIFICATION FOR ADDITIONAL INFORMATION.

C. WHERE WORK IS REQUIRED ABOVE EXISTING CEILINGS AND/OR OUTSIDE OF THE SCOPE OF WORK AREA, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILING TILES, HARD CEILINGS, AND GRID MEMBERS NECESSARY TO PERFORM THE WORK. THIS SHALL BE PERFORMED AT THIS CONTRACTOR'S EXPENSE. COORDINATE CLOSELY WITH THE ARCHITECT AND GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR NEW CEILING LOCATIONS.

D. VERIFY WITH OWNER PRIOR TO DEMOLITION IF ANY ITEMS ARE TO BE SALVAGED.

E. ALL SYSTEM SHUTDOWNS SHALL BE SCHEDULED WITH THE FACILITIES ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.

F. THE PLUMBING CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER PLUMBING DEMOLITION.

G. THE PLUMBING CONTRACTOR SHALL DISPOSE OF DEMOLISHED PLUMBING FIXTURES AND COORDINATE WITH THE GENERAL CONTRACTOR.

H. PRIOR TO STARTING THE DEMOLITION WORK, THE PLUMBING CONTRACTOR SHALL VERIFY WITH THE ELECTRICAL CONTRACTOR THAT POWER FEEDS AND CONTROL WIRING HAVE BEEN DISCONNECTED AND LOCKED OUT FROM PLUMBING EQUIPMENT WHICH IS TO BE REMOVED.

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J. THE PLUMBING CONTRACTOR SHALL AVOID DAMAGING EXISTING DOMESTIC AND SANITARY PLUMBING, HVAC SYSTEMS, ELECTRICAL SYSTEMS, ETC. IF ANY OF THESE SERVICES ARE DAMAGED, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF DAMAGED PLUMBING LINES, DUCTWORK, CONDUITS, BUILDING MATERIALS, ETC., AND CLEAN-UP OF AREA AFFECTED BY DAMAGED SYSTEM AT THE EXPENSE OF THE PLUMBING CONTRACTOR.

K. ANY WORK REQUIRED OUTSIDE OF THE PROJECT'S LIMITS SHALL BE PERFORMED AT NIGHT OR ON THE WEEKEND AND SCHEDULED THROUGH THE FACILITY ENGINEER.

L. ALL EXISTING SANITARY AND GREASE PIPING SHALL BE "JETTED" OUT WITH A HIGH PRESSURE CLEANER PRIOR TO STARTING WORK.

TAGGED NOTES

PD3 E(8" RL UP)
PD4 E(4" RL UP)
PD7 E(8" RL UP)

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MCNAMEE POREMAKER

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FIRST FLOOR PLAN - PLUMBING - BELOWSLAB DEMOLITION - AREA B

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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P2.0B

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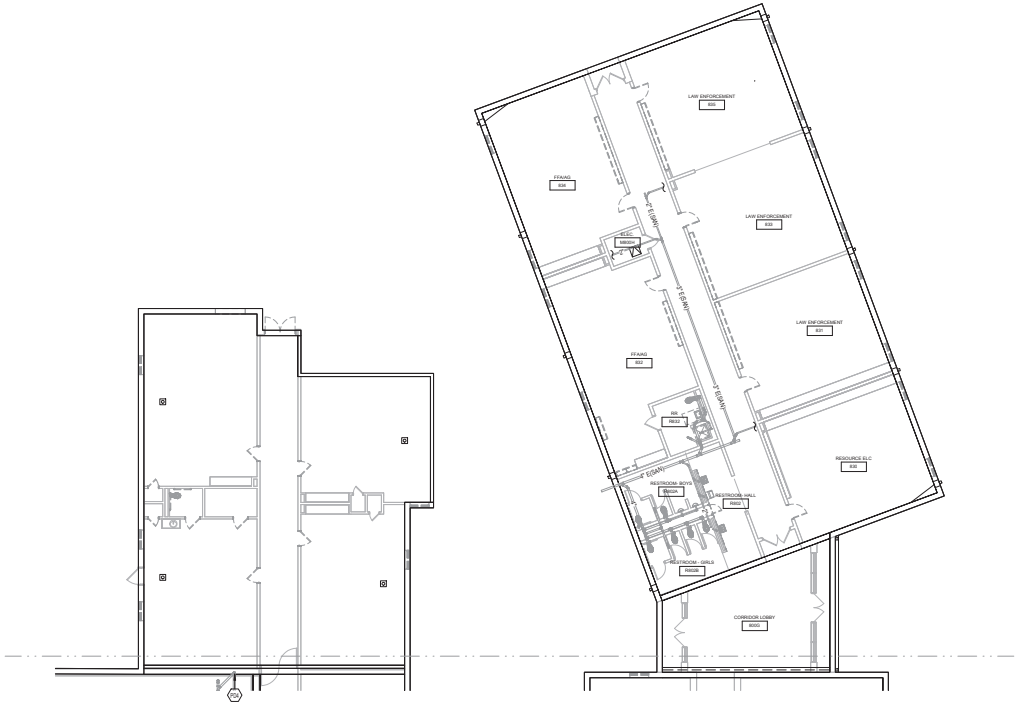

1 FIRST FLOOR PLAN - PLUMBING - BELOWSLAB DEMOLITION - AREA C
SCALE: 3/32" = 1'-0"

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MCNAMEE POPE&ASSOC

100% DESIGN DEVELOPMENT

FIRST FLOOR PLAN – PLUMBING – BELOWSLAB DEMOLITION – AREA C

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

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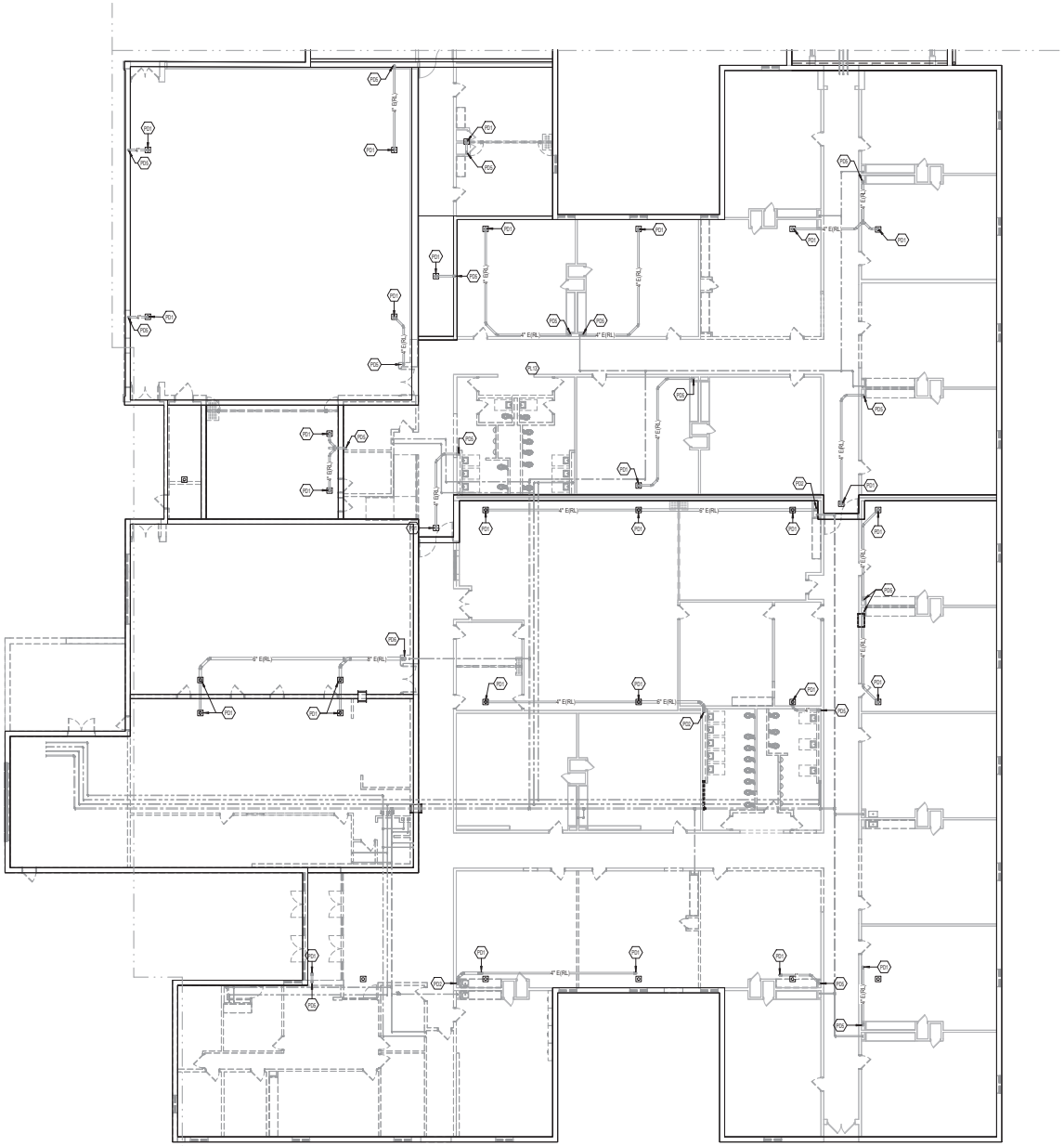
P2.1C



1 FIRST FLOOR PLAN - PLUMBING - DEMOLITION - AREA B
SCALE: 3/32" = 1'-0"

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TAGGED NOTES

##

PD1 E(4" UP TO RD)
PD2 E(6" RL DN)
PD6 E(4" RL DN)
PD6 E(8" RL DN)
PL13 EXTEND 2" CW, 1/2" HW LINES DOWN IN CHASE. ROUTE 2" CW, 1/2" HW HEADERS HORIZONTALLY IN CHASE TO FIXTURES AND CONNECT. FURNISH AND INSTALL WATER HAMMER ARRESTORS AS REQUIRED.

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FIRST FLOOR PLAN - PLUMBING - DEMOLITION - AREA B

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : AME
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REVISIONS :

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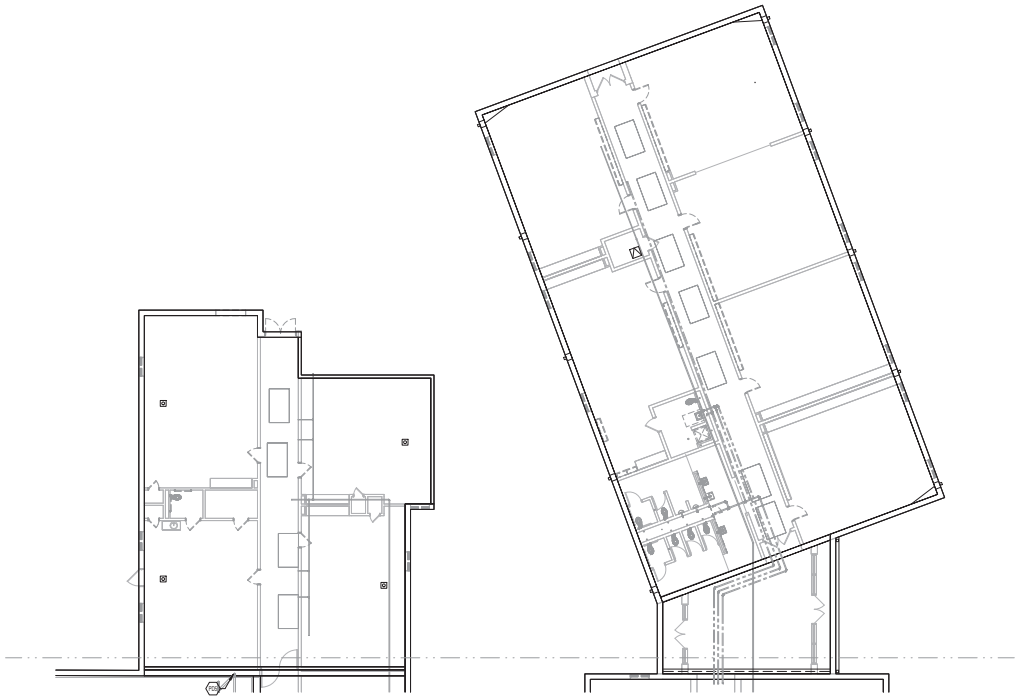
P3.0B



1 FIRST FLOOR PLAN - PLUMBING - DEMOLITION - AREA C
SCALE: 3/32" = 1'-0"

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TAGGED NOTES

PD5 E(4" RL DN)

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MCNAMEE POROMAKO

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FIRST FLOOR PLAN – PLUMBING – DEMOLITION – AREA C

Bullitt East High School – Fine Arts Addition
11450 KY-44
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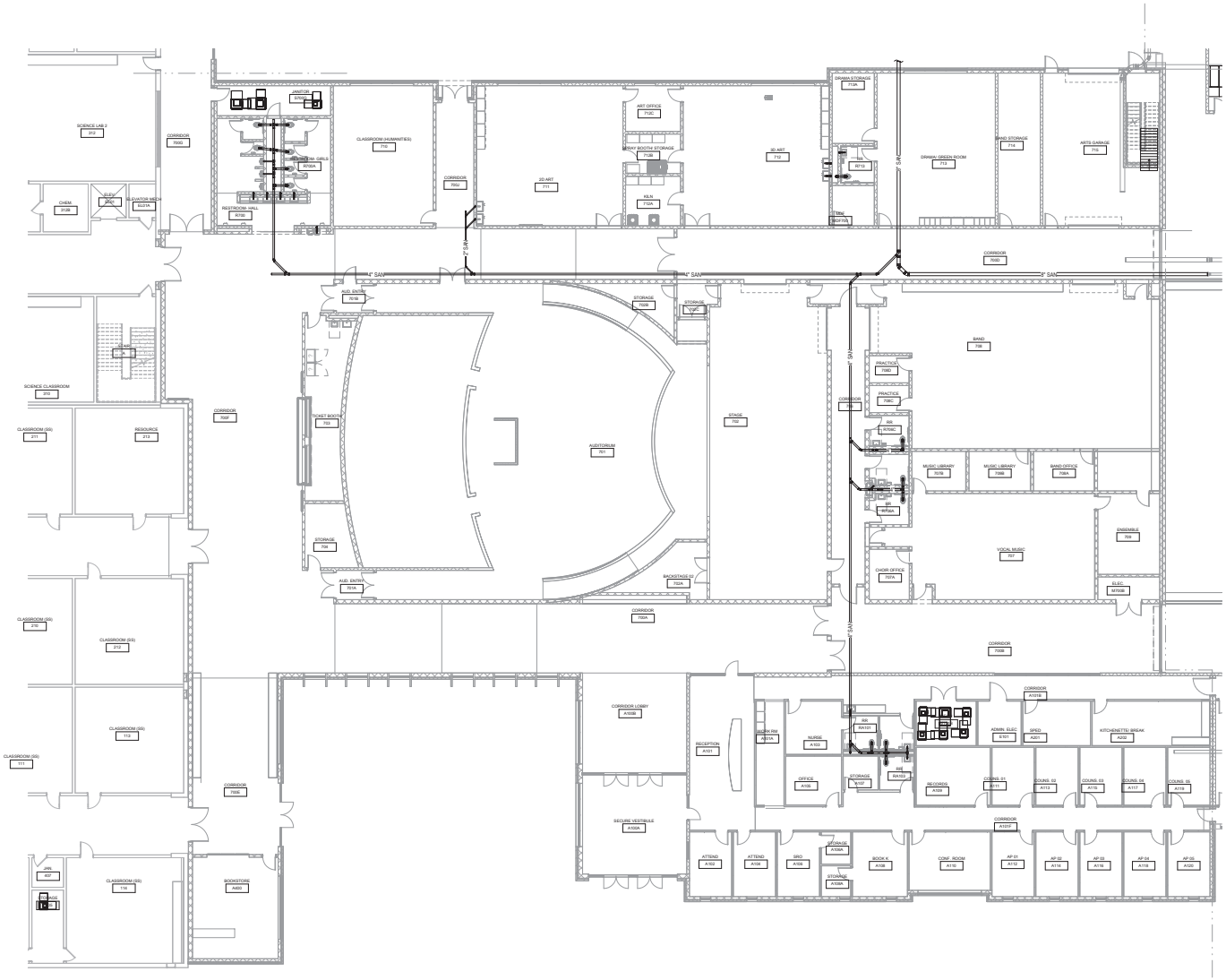

1 FIRST FLOOR PLAN - PLUMBING - BELOWSLAB NEW WORK - AREA A

SCALE: 3/32" = 1'-0"

GENERAL PLUMBING NOTES:

A. THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO EX. LINES. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.

B. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES AND MATERIALS AS REQUIRED, INCLUDING ALL LABOR AND INCIDENTALS NECESSARY FOR A COMPLETE PLUMBING INSTALLATION.

C. THE PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES, POLISH ALL METAL PARTS, CHECK AND ADJUST ALL FITTINGS, FAUCETS AND VALVES. ALL OPERATING INSTRUCTIONS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR PRESENTATION TO THE OWNER.

D. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE. NATURAL GAS PIPING SHALL NOT BE ROUTED BELOWCONCRETE SLAB ON GRADE WITHIN BUILDING.

E. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED.

F. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.

G. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH FIRE PROTECTION DUCTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURR-DOWNS AND SOFFITS OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTING CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE ROUTED IN A CONCEALED MANNER.

H. PLUMBING CONTRACTOR SHALL AVOID LOCATING HW/CW PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.

I. ALL ADA ACCESSIBLE LAVATORIES AND SINKS WITH EXPOSED WATER AND DRAIN PIPES SHALL BE INSULATED TO PROTECT AGAINST CONTACT PER ADAREQUIREMENTS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES.

J. WHERE USED, THE TERM "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL".

K. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.

L. COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL PANELS, SWITCHGEAR, ETC.

M. WHERE APPLICABLE, THE EXISTING CONDITIONS INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.

N. ALL PLUMBING ITEMS REQUIRING MAINTENANCE ACCESS SHALL BE INSTALLED AT A MAXIMUM OF 1'-0" ABOVE CEILING ELEVATION. THIS INCLUDES BUT IS NOT LIMITED TO: VALVES, ETC.

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BG MOVING FORWARD

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FIRST FLOOR PLAN - PLUMBING - BELOWSLAB NEW WORK - AREA A

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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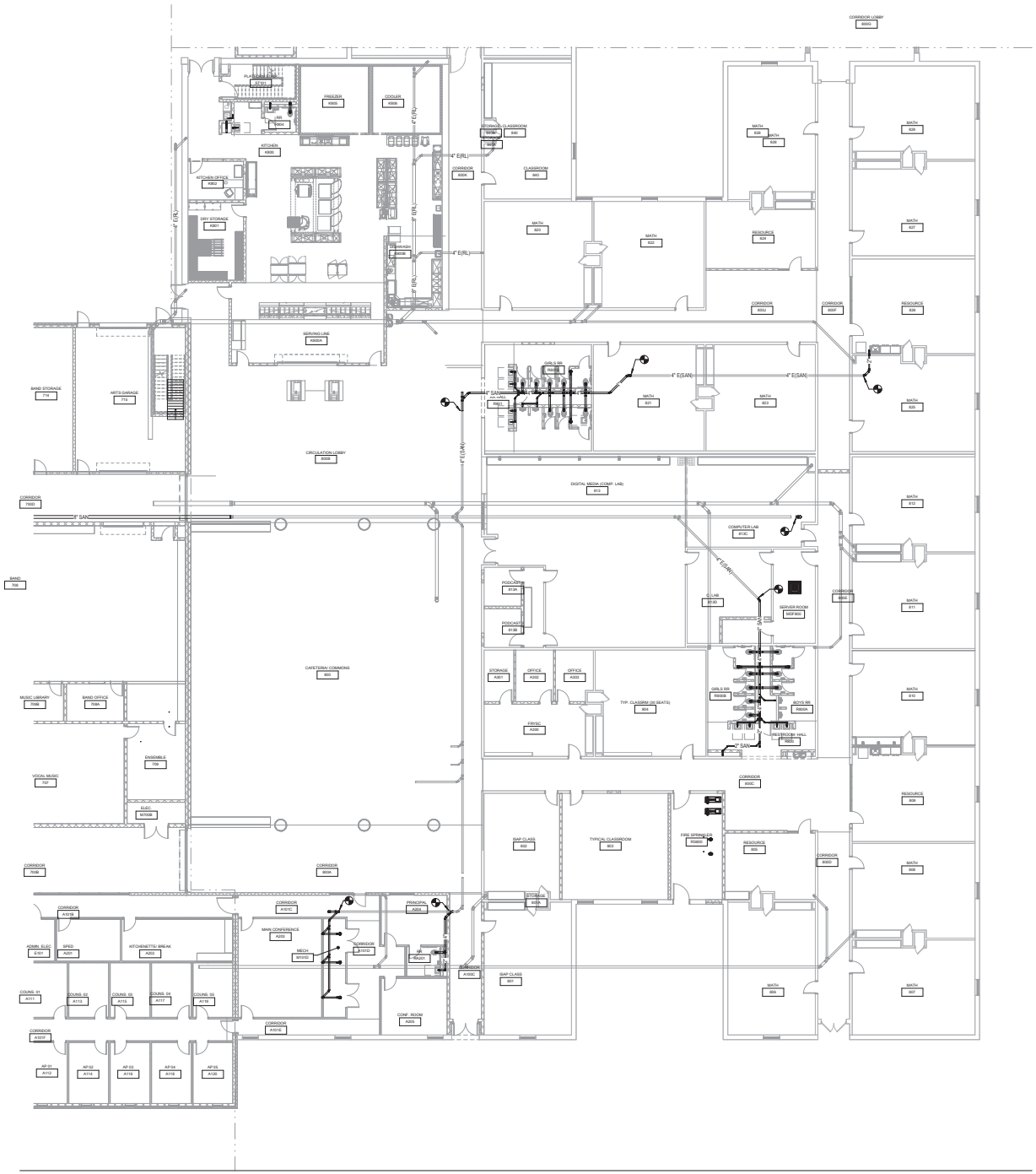
P4.0A



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M. WHERE APPLICABLE, THE EXISTING CONDITIONS INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.

N. ALL PLUMBING ITEMS REQUIRING MAINTENANCE ACCESS SHALL BE INSTALLED AT A MAXIMUM OF 1'-0" ABOVE CEILING ELEVATION. THIS INCLUDES BUT IS NOT LIMITED TO: VALVES, ETC.

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BG ENGINEERS PLUMBING

100% DESIGN DEVELOPMENT

FIRST FLOOR PLAN – PLUMBING – BELOWSLAB NEW WORK – AREA B

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : AME
CHECKED BY : SKA
REVISIONS :

2022-35

P4.1B

GENERAL PLUMBING NOTES:

A. THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO EX. LINES. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.

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C. THE PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES, POLISH ALL METAL PARTS, CHECK AND ADJUST ALL FITTINGS, FAUCETS AND VALVES. ALL OPERATING INSTRUCTIONS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR PRESENTATION TO THE OWNER.

D. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE. NATURAL GAS PIPING SHALL NOT BE ROUTED BELOWCONCRETE SLAB ON GRADE WITHIN BUILDING.

E. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED.

F. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.

G. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH FIRE PROTECTION DUCTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURR-DOWNS AND SOFFITS OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTING CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE ROUTED IN A CONCEALED MANNER.

H. PLUMBING CONTRACTOR SHALL AVOID LOCATING HW/CW PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.

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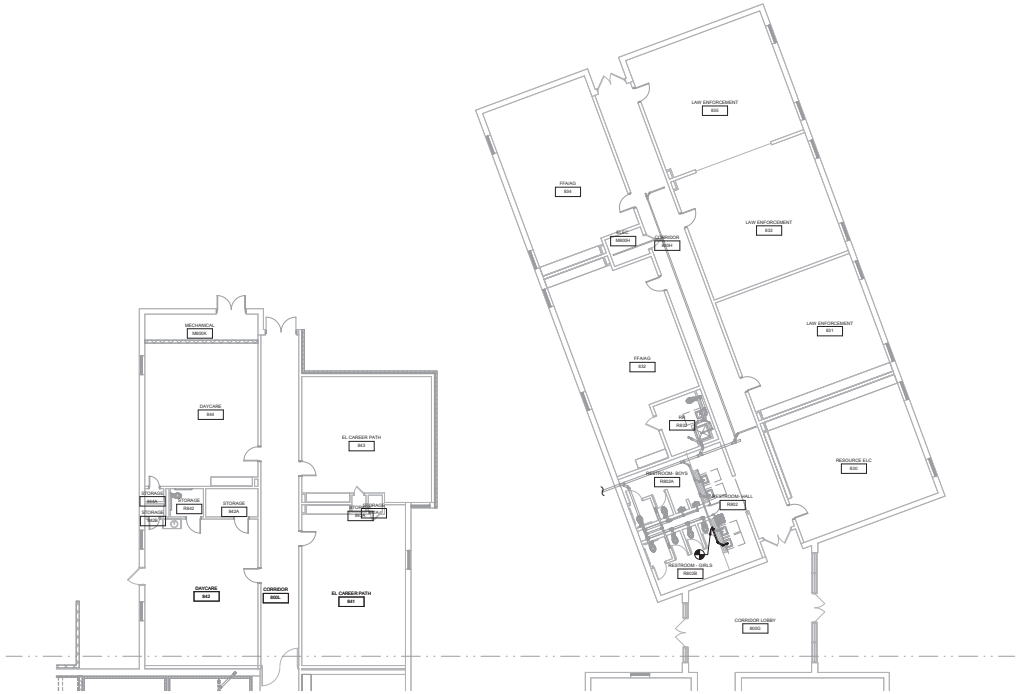

1 FIRST FLOOR PLAN - PLUMBING - BELOWSLAB NEW WORK - AREA C
SCALE: 3/32" = 1'-0"

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FIRST FLOOR PLAN – PLUMBING – BELOWSLAB NEW WORK – AREA C

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Mt. Washington, KY 40047

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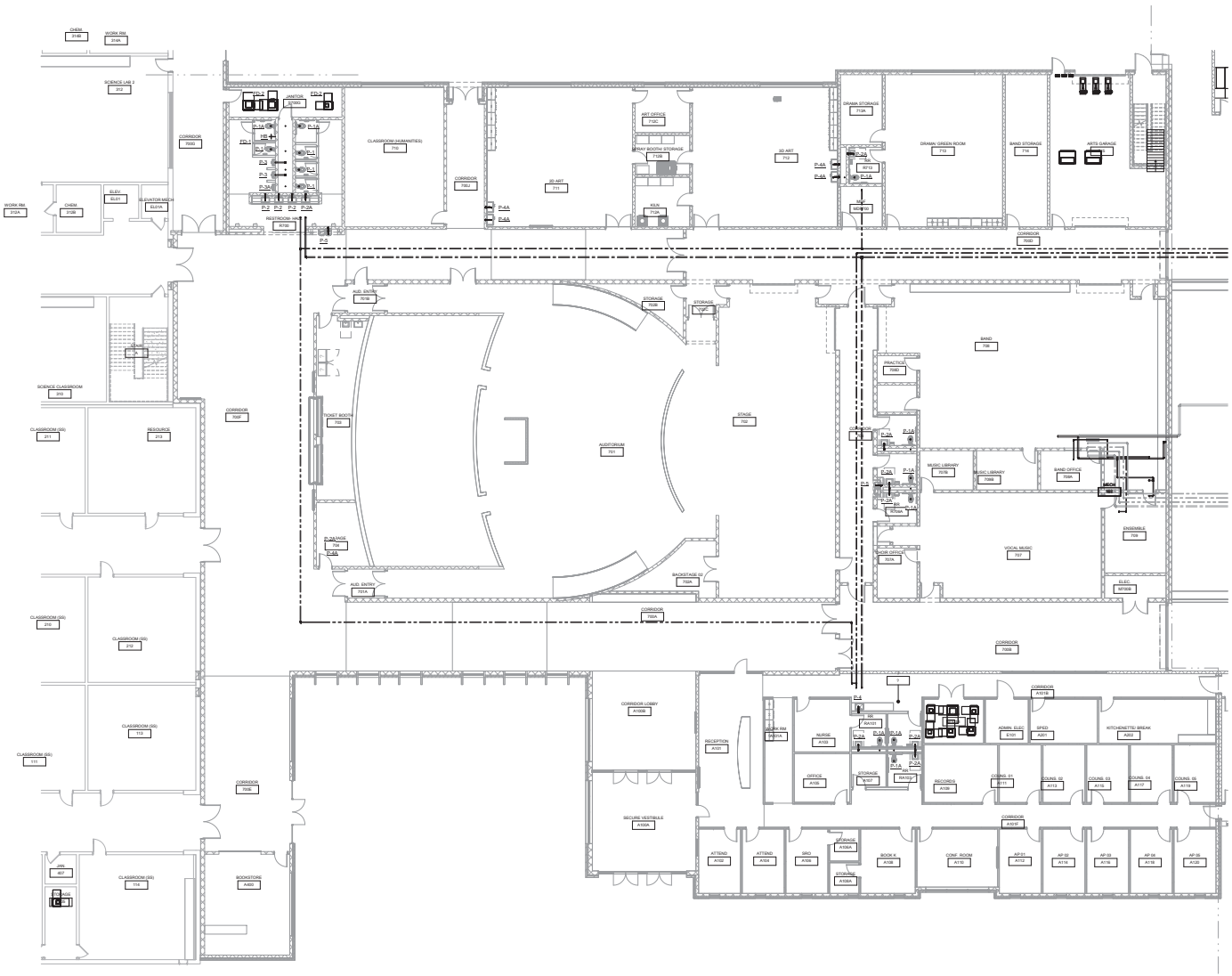

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TAGGED NOTES

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FIRST FLOOR PLAN - PLUMBING - NEW WORK - AREA A

Bullitt East High School - Fine Arts Addition
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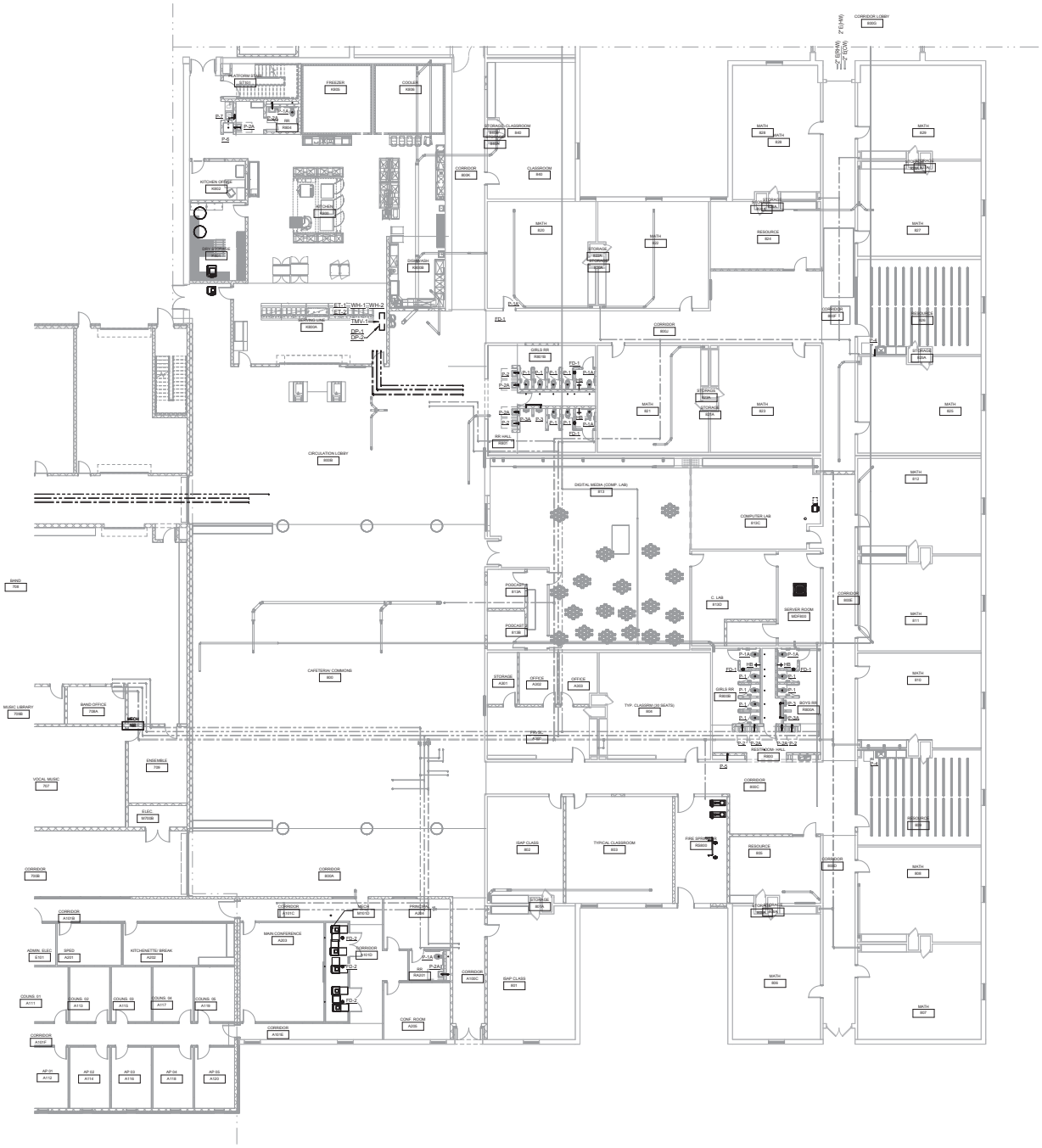

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FIRST FLOOR PLAN - PLUMBING - NEW WORK - AREA B

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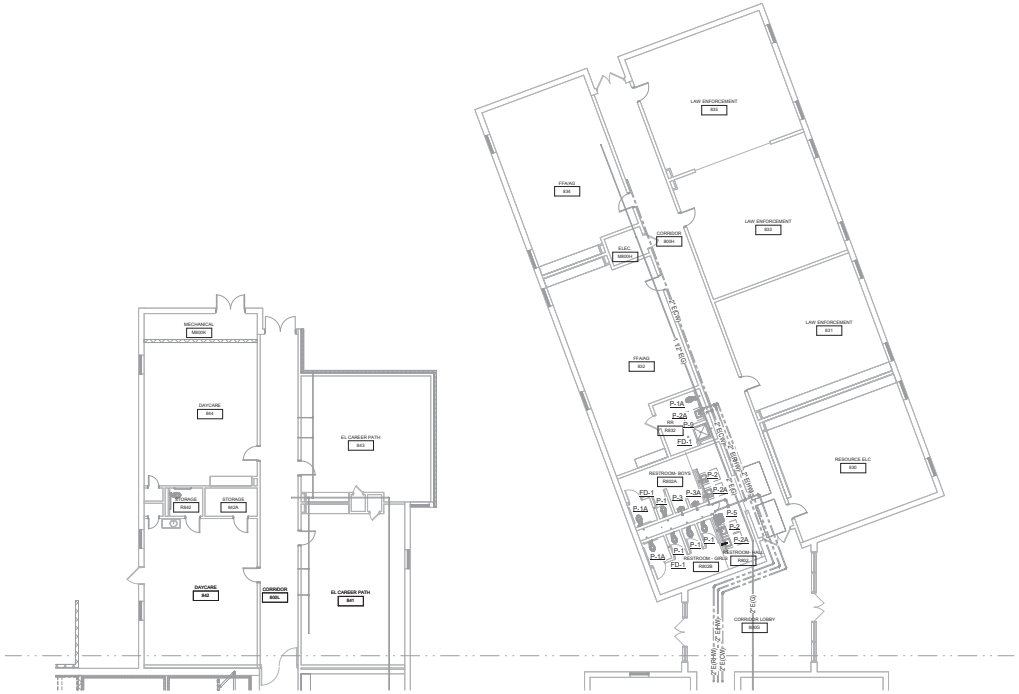

1 FIRST FLOOR PLAN - PLUMBING - NEW WORK - AREA C
SCALE: 3/32" = 1'-0"

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FIRST FLOOR PLAN – PLUMBING – NEW WORK – AREA C

Bullitt East High School – Fine Arts Addition
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Mt. Washington, KY 40047

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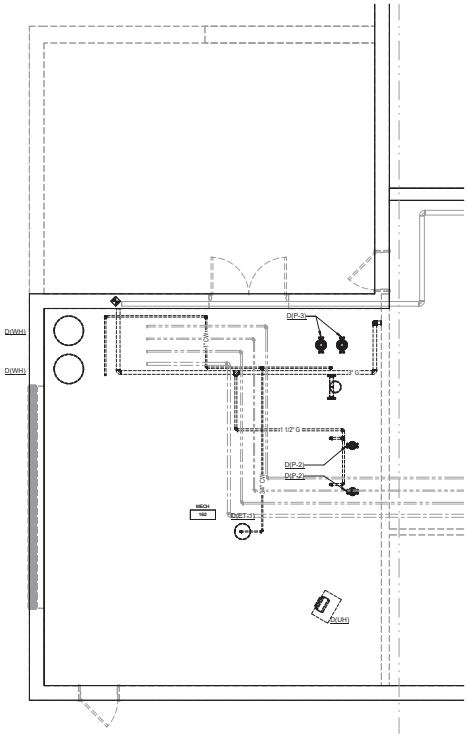
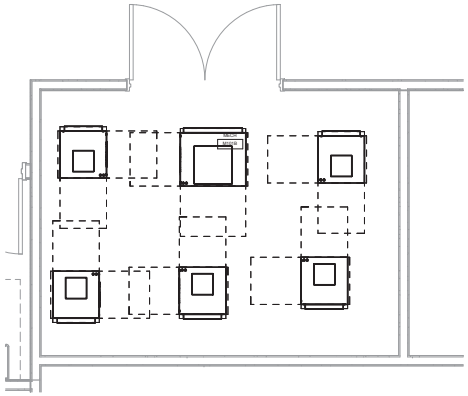
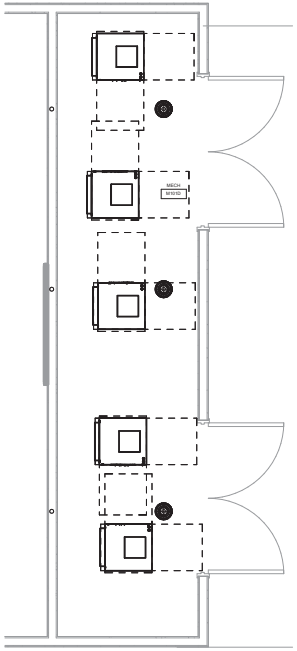
P5.2C



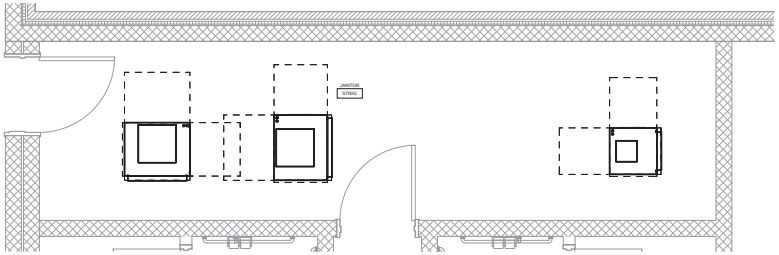
1 ENLARGED MECH 160 - PLUMBING DEMOLITION
SCALE: 1/4" = 1'-0"



2 ENLARGED MECH M101B - PLUMBING - NEW WORK
SCALE: 1/2" = 1'-0"



4 ENLARGED MECH M101D - PLUMBING - NEW WORK
SCALE: 1/2" = 1'-0"



3 ENLARGED MECH M101C - PLUMBING - NEW WORK
SCALE: 1/2" = 1'-0"

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BG ARCHITECTS PLANNERS ENGINEERS

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ENLARGED MECHANICAL ROOM – PLUMBING

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MECHANICAL GENERAL NOTES

A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B THE CONTRACTOR 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. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.

E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)

H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

M ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

N INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.

O LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

P ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

Q COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.

R INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.

T SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.

U ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.

V THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

W WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

X DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.

Y 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'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

Z DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

AA VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

AB ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

AC PIPING SHALL NOT BE LOCATED UNDER A FOOTER OR IN THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

AD THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.

AE THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

AF WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY 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
	REVISION TRIANGLE
ROOM NAME / 101	ROOM TAG
TAG XXX-# / ENTRANCE XXXX	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 / APPLICAN # ####"	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
####"	RECTANGULAR DUCT
#"	ROUND/SPIRAL DUCT
##/##	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
CO	CARBON DIOXIDE SENSOR
CO H	TEMPERATURE & CARBON DIOXIDE SENSOR
MANUAL / MANUAL	MANUAL BALANCING/VOLUME DAMPER
MOTOR / MOTOR	MOTORIZED DAMPER
FIRE / FIRE	FIRE DAMPER
SMOKE / SMOKE	SMOKE DAMPER
COMBINATION / COMBINATION	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
—BFW—	BOILER FEEDWATER
—CAI/E—	COMBUSTION AIR INTAKE/EXHAUST
—CBS/R—	CHILLED BEAM SUPPLY/RETURN
—CD—	CONDENSATE DRAIN
—CHWS/R—	CHILLED WATER SUPPLY/RETURN
—CST—	CLEAN STEAM PIPING
—CWS/R—	CONDENSER WATER SUPPLY/RETURN
—DTS/R—	DUAL TEMP. WATER SUPPLY/RETURN
—GS/R—	GEOTHERMAL WATER SUPPLY/RETURN
—HPC—	HIGH PRESSURE STEAM CONDENSATE
—HPS(#)—	HIGH PRESSURE STEAM: (#) DENOTES PRESSURE
—HPS/R—	HEAT PUMP WATER SUPPLY/RETURN
—HRS/R—	HEAT RECOVERY SUPPLY/RETURN PIPING
—HWS/R—	HEATING WATER SUPPLY/RETURN
—LPC—	LOW PRESSURE STEAM CONDENSATE
—LPS(#)—	LOW PRESSURE STEAM: (#) DENOTES PRESSURE
—MPC—	MEDIUM PRESSURE STEAM RETURN
—MPS(#)—	MEDIUM PRESSURE STEAM: (#) DENOTES PRESSURE
—SPD—	STEAM CONDENSATE PUMPED DISCHARGE
—SVT—	STEAM VENT PIPING
--P(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)
BV	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (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
F	FLOW SWITCH
P	PRESSURE SWITCH
T	TAMPER SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

MECHANICAL DEMOLITION NOTES

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. FIELD VERIFY EXACT REQUIREMENTS.

B DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.

C 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.

D ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

E HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

F COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

G ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

H ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.

MECHANICAL 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, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, 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.

MECHANICAL 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 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.

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

APPLICABLE BUILDING CODES

APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA 13	2013
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) OR ASHRAE 90.1	STATE EDITION	2012 OR 2010
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013
UNIFORM STATEWIDE BUILDING CODE		2018

Sheet List - Mechanical

SHEET #	SHEET NAME
M1.1	HVAC ZONING PLAN
M2.1B	FIRST FLOOR PLAN - AIR DISTRIBUTION DEMOLITION - AREA B
M2.1C	FIRST FLOOR PLAN - AIR DISTRIBUTION DEMOLITION - AREA C
M2.2B	FIRST FLOOR PLAN - HYDRONICS DEMOLITION - AREA B
M2.2C	FIRST FLOOR PLAN - HYDRONICS DEMOLITION - AREA C
M2.3B	MECHANICAL ROOF PLAN - DEMOLITION - AREA B
M3.1A	FIRST FLOOR PLAN - AIR DISTRIBUTION NEW WORK - AREA A
M3.1B	FIRST FLOOR PLAN - AIR DISTRIBUTION NEW WORK - AREA B
M3.1C	FIRST FLOOR PLAN - AIR DISTRIBUTION NEW WORK - AREA C
M3.2B	MECHANICAL ROOF PLAN - NEW WORK - AREA B
M4.1A	FIRST FLOOR PLAN - HYDRONICS NEW WORK - AREA A
M4.1B	FIRST FLOOR PLAN - HYDRONICS NEW WORK - AREA B
M4.1C	FIRST FLOOR PLAN - HYDRONICS NEW WORK - AREA C
M5.0	ENLARGED MECHANICAL ROOM PLANS - AIR DISTRIBUTION
M5.1	ENLARGED MECHANICAL ROOM PLANS - HYDRONICS
M5.2	ENLARGED MECHANICAL MEZZANINE PLAN - AIR DISTRIBUTION
M5.3	ENLARGED MECHANICAL MEZZANINE PLAN - HYDRONICS
M6.0	MECHANICAL PIPING SCHEMATICS
M7.0	MECHANICAL DETAILS
M7.1	MECHANICAL DETAILS
M8.0	MECHANICAL SCHEDULES
UM1.0	MECHANICAL SITE PLAN
UM1.1	MECHANICAL SITE DETAILS
M1.0	MECHANICAL LEGEND AND GENERAL NOTES

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BG MOVING FORWARD

100% DESIGN DEVELOPMENT

MECHANICAL LEGEND AND GENERAL NOTES

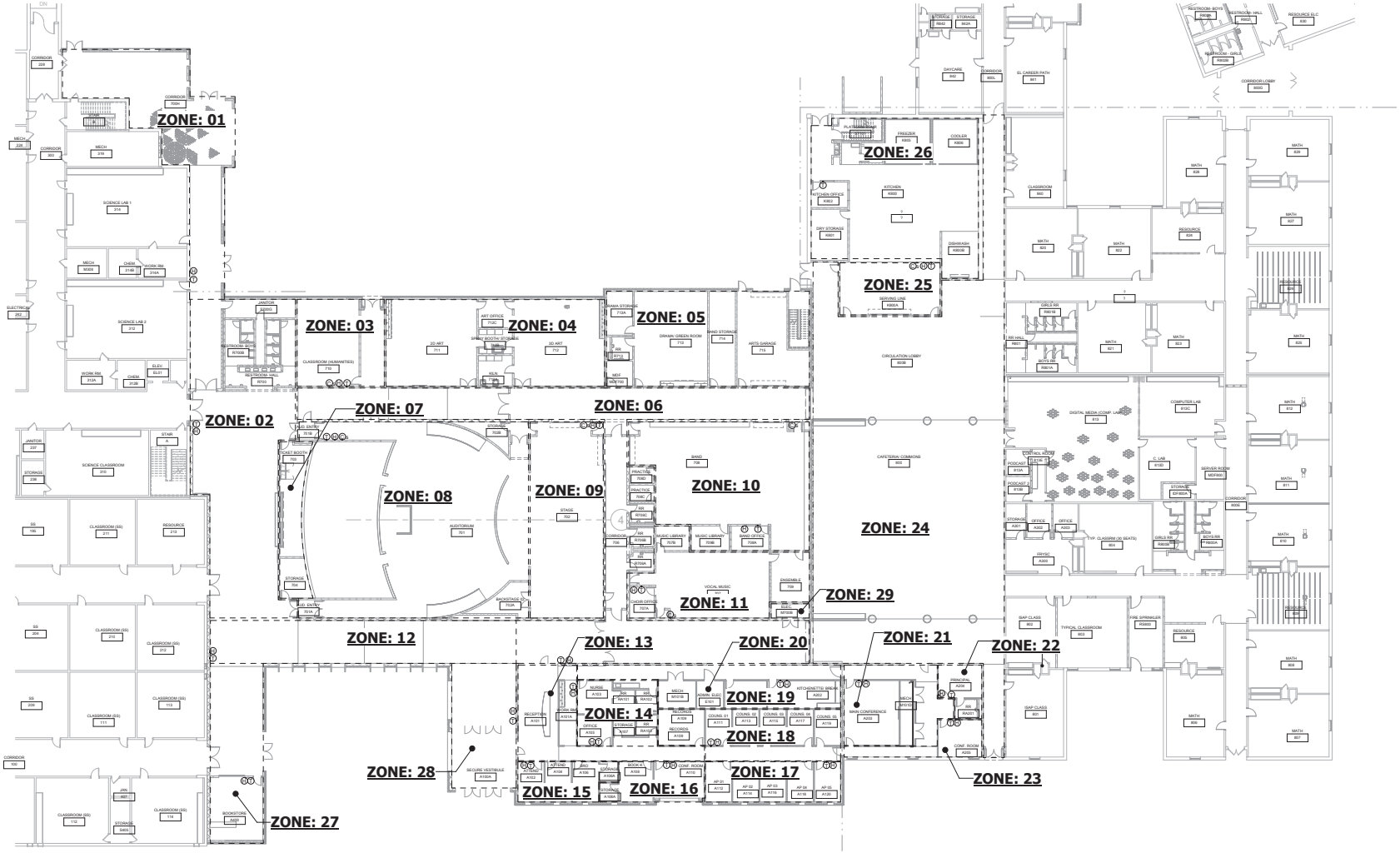
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : SJB
CHECKED BY : JRE
REVISIONS :

2022-35

M1.0



1 HVAC ZONING PLAN
SCALE: 1/16" = 1'-0"

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HVAC ZONING PLAN

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

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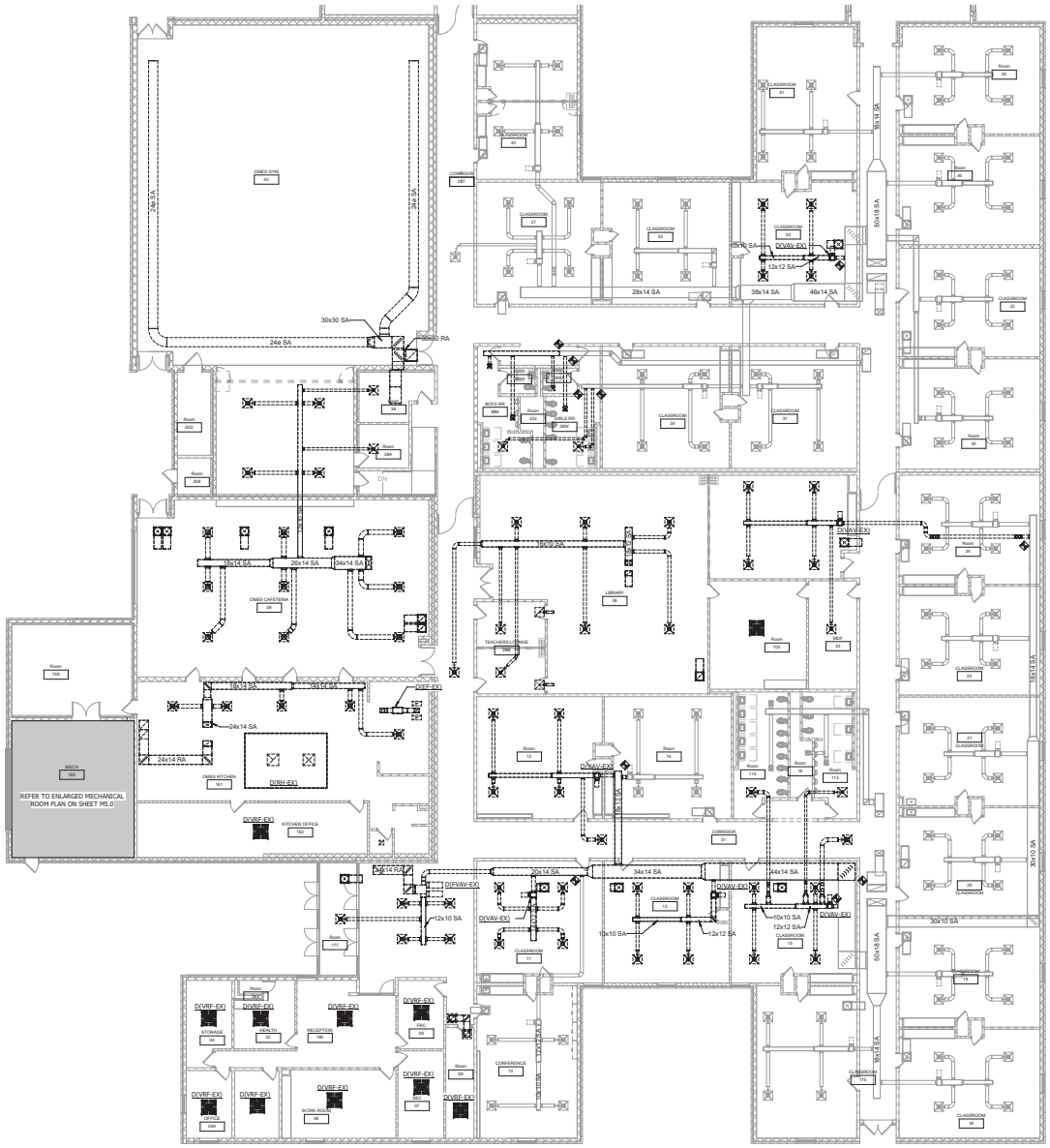
2022-35

M1.1

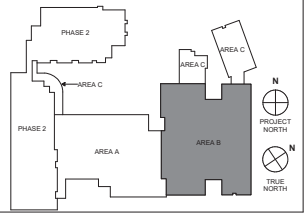
100% DESIGN DEVELOPMENT

TAGGED NOTES



1 FIRST FLOOR PLAN - AIR DISTRIBUTION - DEMOLITION - AREA B
SCALE: 3/32" = 1'-0"

KEYPLAN



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FIRST FLOOR PLAN – AIR DISTRIBUTION DEMOLITION – AREA B

Bullitt East High School – Fine Arts Addition
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Mt. Washington, KY 40047

BG# 23-050

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M2.1B

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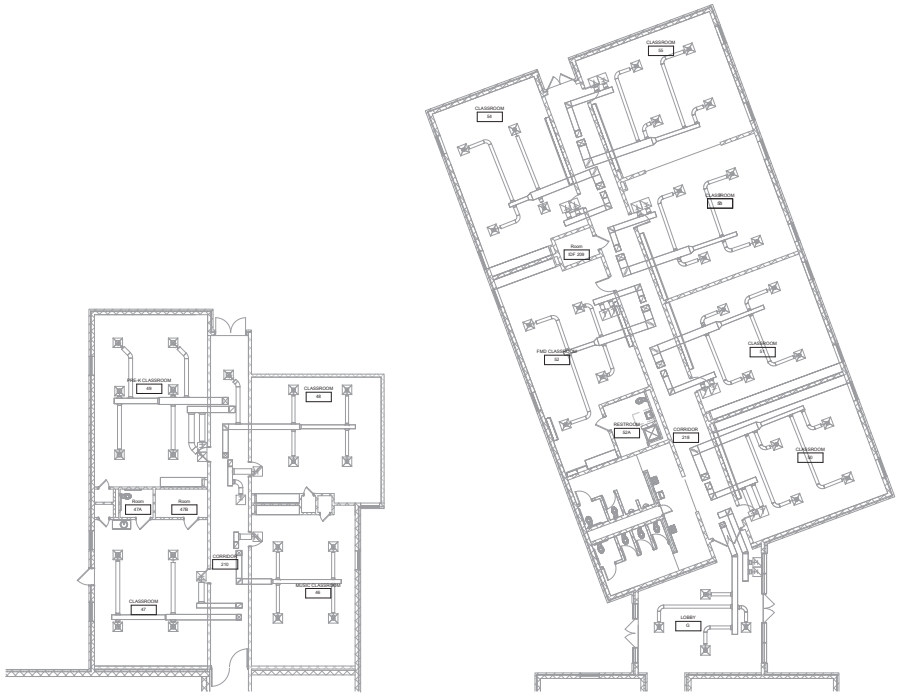
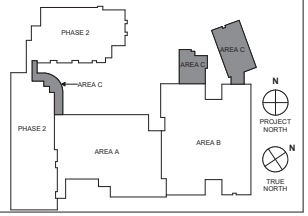


1 FIRST FLOOR PLAN - AIR DISTRIBUTION - DEMOLITION - AREA C
SCALE: 3/32" = 1'-0"

KEYPLAN



100% DESIGN DEVELOPMENT

FIRST FLOOR PLAN – AIR DISTRIBUTION DEMOLITION – AREA C

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M2.1C

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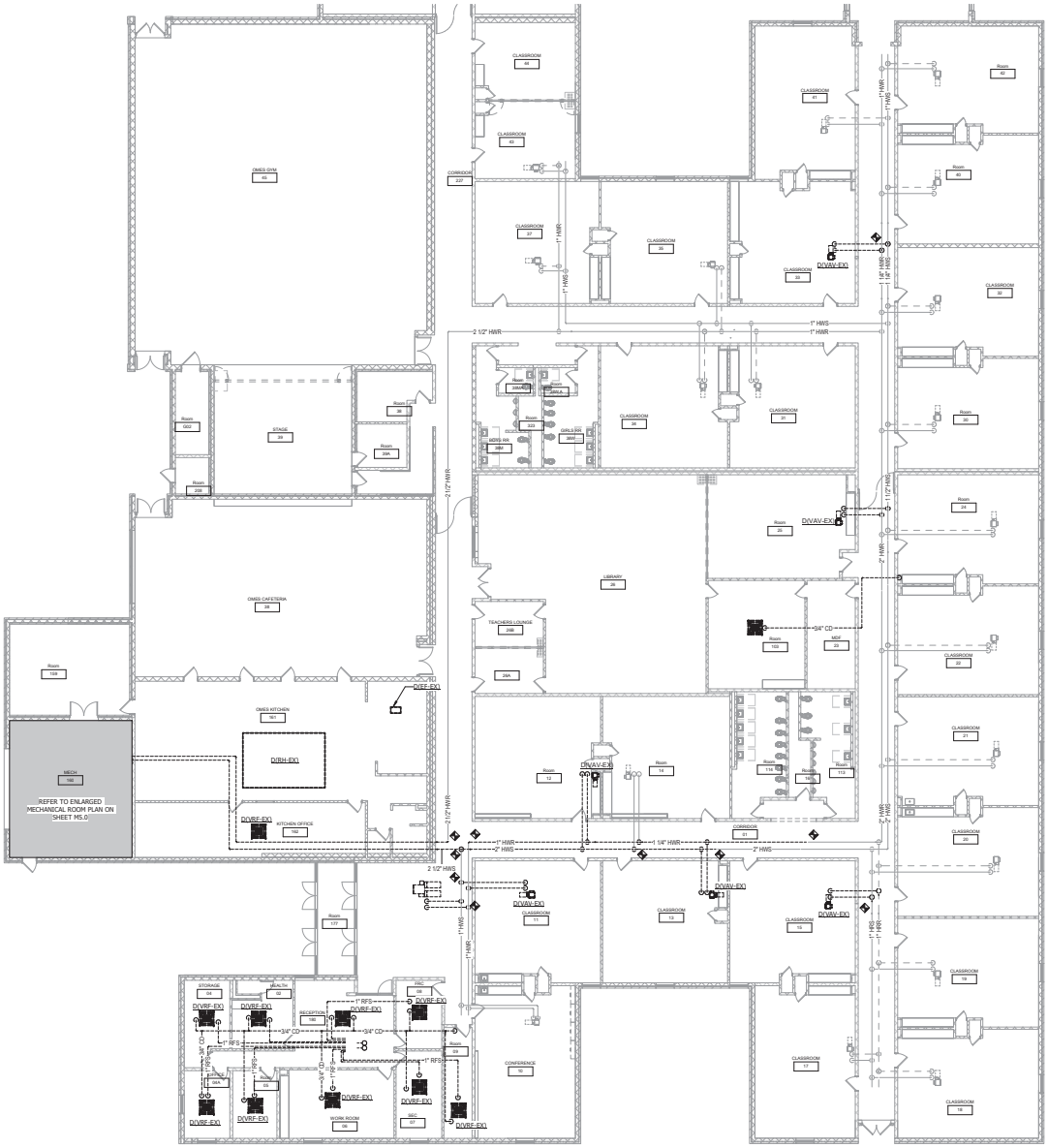
BG
MOVING FORWARD

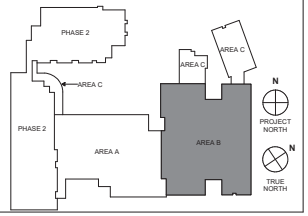


1 FIRST FLOOR PLAN - HYDRONICS - DEMOLITION - AREA B

SCALE: 3/32" = 1'-0"

TAGGED NOTES

KEYPLAN



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MOVING FORWARD

100% DESIGN DEVELOPMENT

FIRST FLOOR PLAN - HYDRONICS
DEMOLITION - AREA B

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11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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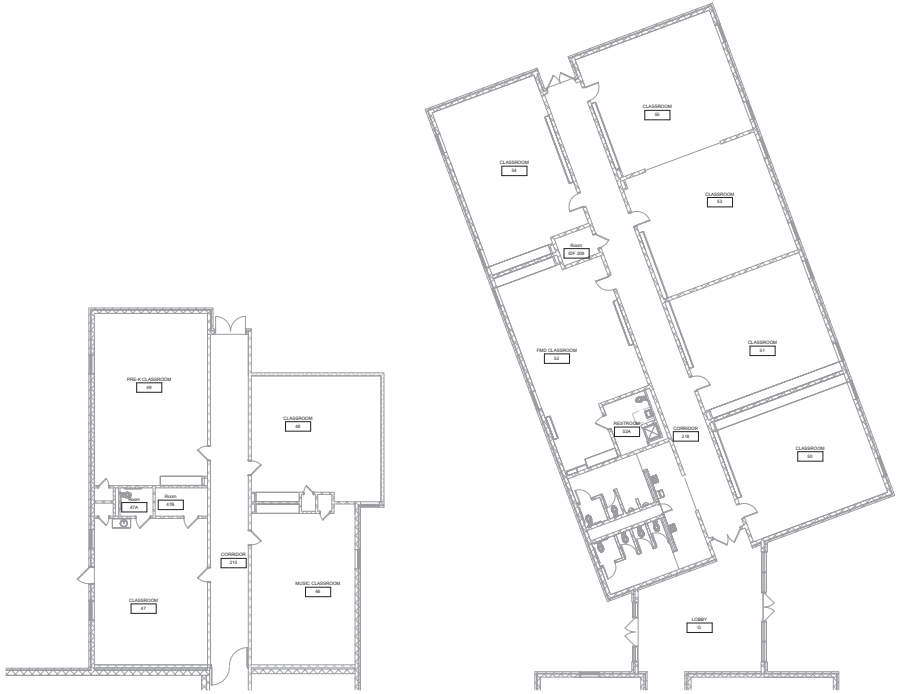
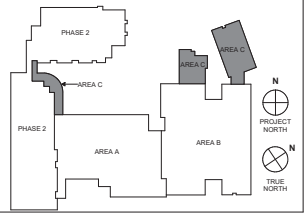
M2.2B

TAGGED NOTES



1 FIRST FLOOR PLAN - HYDRONICS - DEMOLITION - AREA C
SCALE: 3/32" = 1'-0"

KEYPLAN



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FIRST FLOOR PLAN – HYDRONICS DEMOLITION – AREA C

Bullitt East High School – Fine Arts Addition
11450 KY-44
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BG# 23-050

DATE : 07/24/2023
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M2.2C

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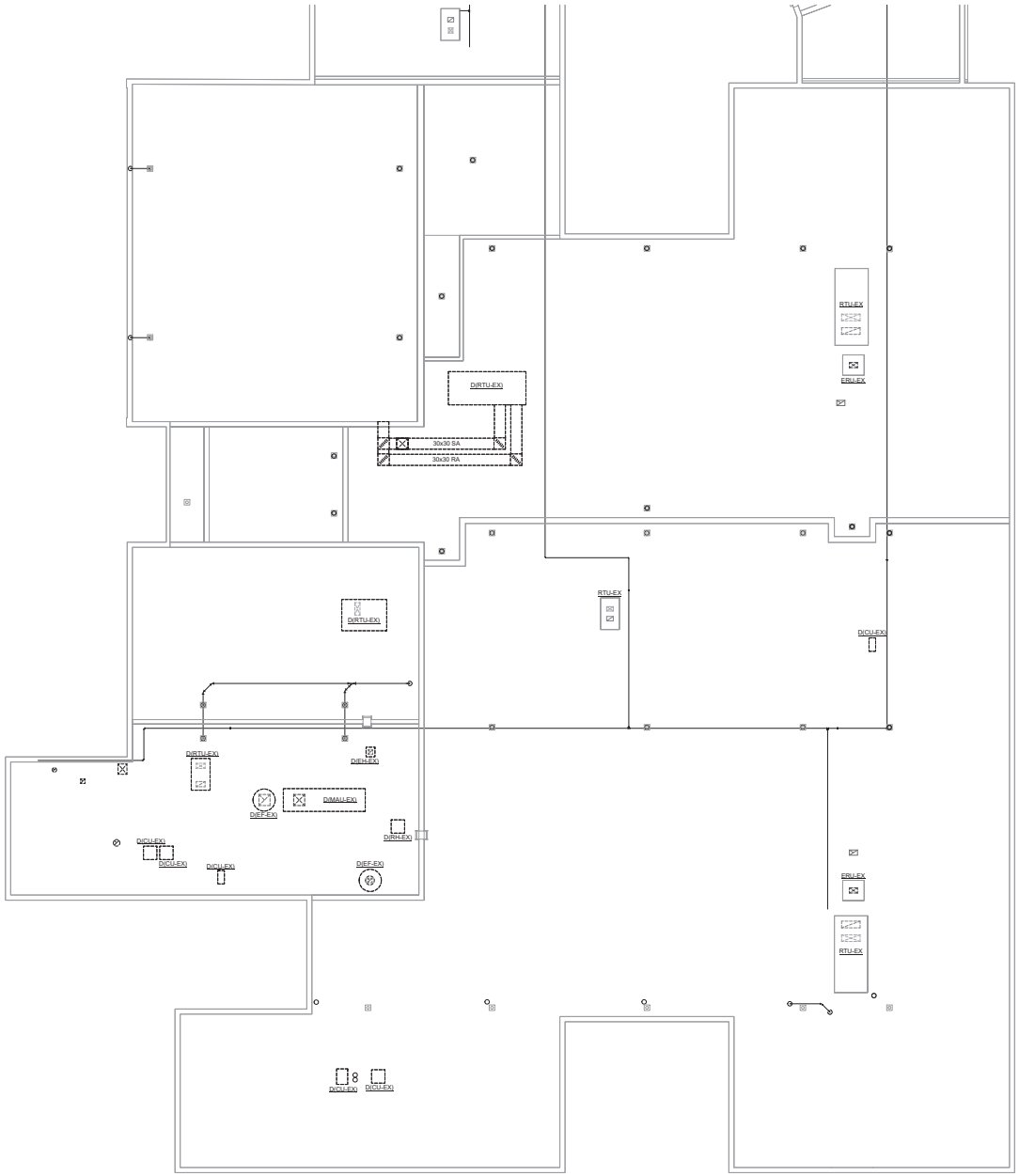
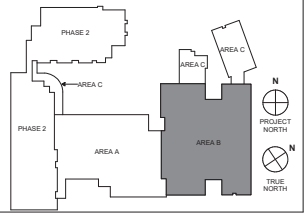


1 MECHANICAL ROOF PLAN - DEMOLITION - AREA B
SCALE: 3/32" = 1'-0"

KEYPLAN



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MECHANICAL ROOF PLAN – DEMOLITION – AREA B

Bullitt East High School – Fine Arts Addition
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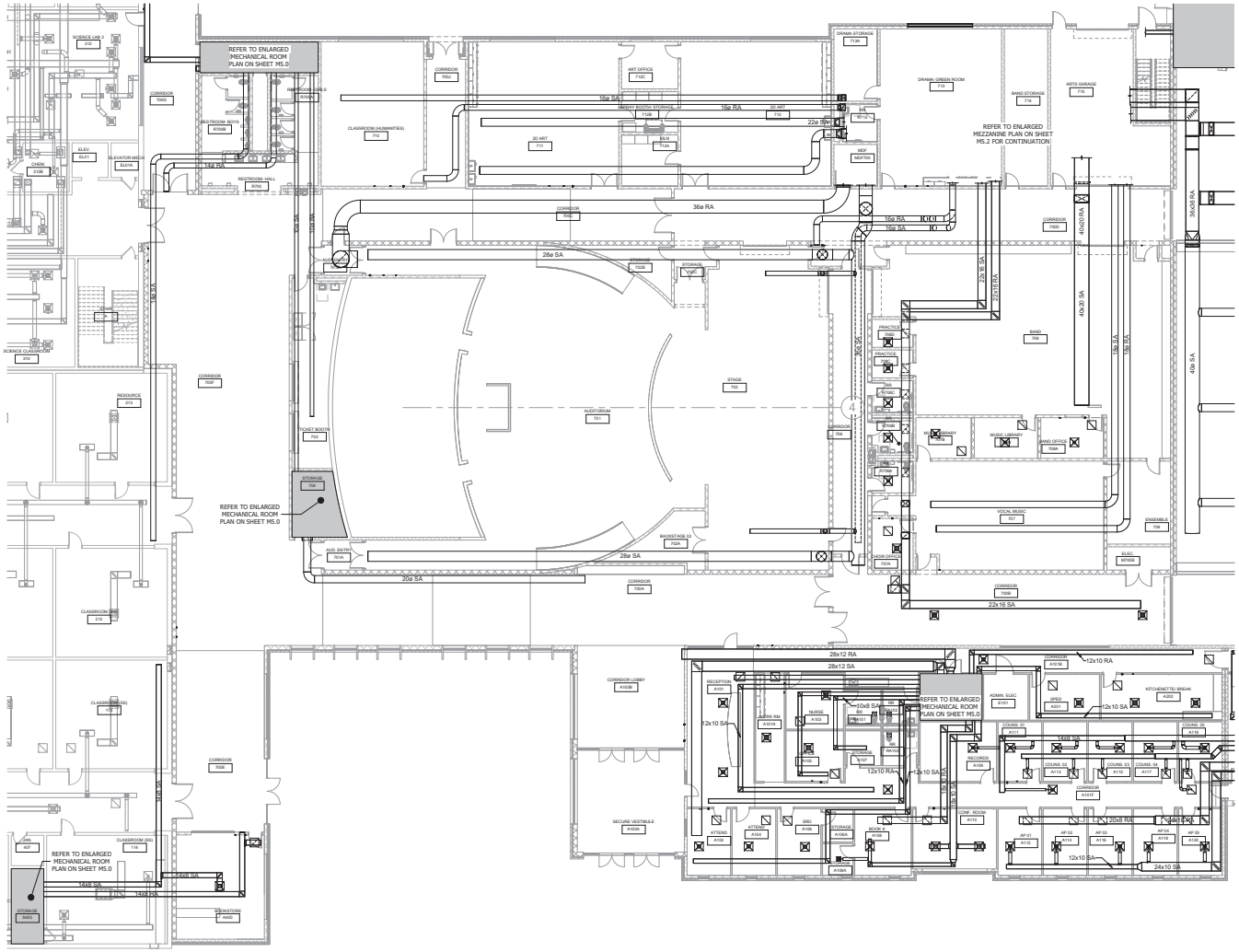
M2.3B

TAGGED NOTES

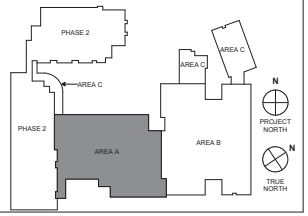


1 FIRST FLOOR PLAN - AIR DISTRIBUTION - NEW WORK - AREA A
SCALE: 3/32" = 1'-0"

VAV RUNOUT SCHEDULE

MARK	INLET RECT. SIZE	INLET ROUND SIZE	OUTLET DUCT SIZE

KEYPLAN



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FIRST FLOOR PLAN – AIR DISTRIBUTION NEW WORK – AREA A

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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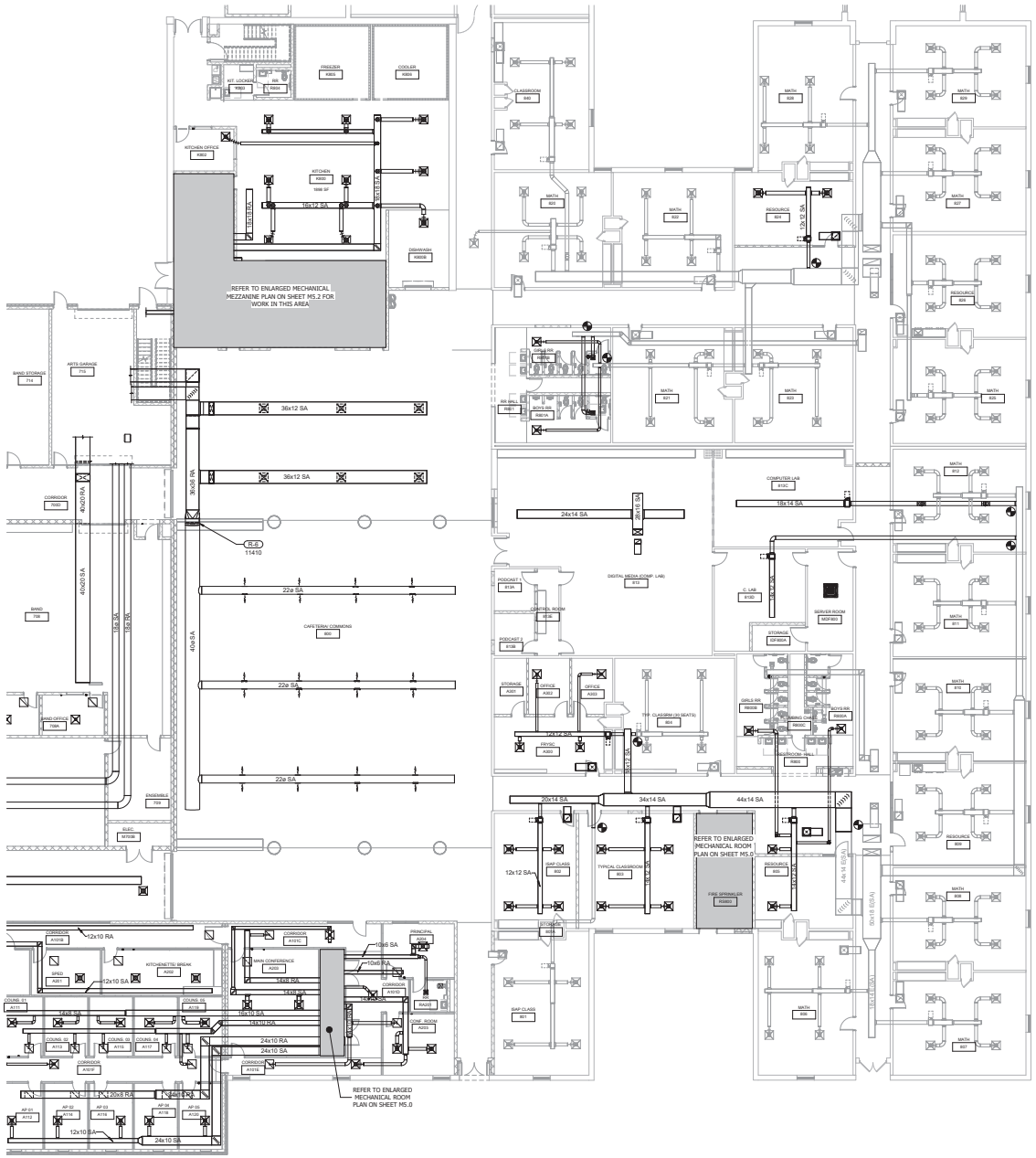
M3.1A

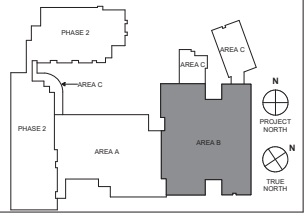


1 FIRST FLOOR PLAN - AIR DISTRIBUTION - NEW WORK - AREA B
SCALE: 3/32" = 1'-0"

TAGGED NOTES

VAV RUNOUT SCHEDULE			
MARK	INLET RECT. SIZE	INLET ROUND SIZE	OUTLET DUCT SIZE

KEYPLAN



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FIRST FLOOR PLAN – AIR DISTRIBUTION NEW WORK – AREA B

Bullitt East High School – Fine Arts Addition
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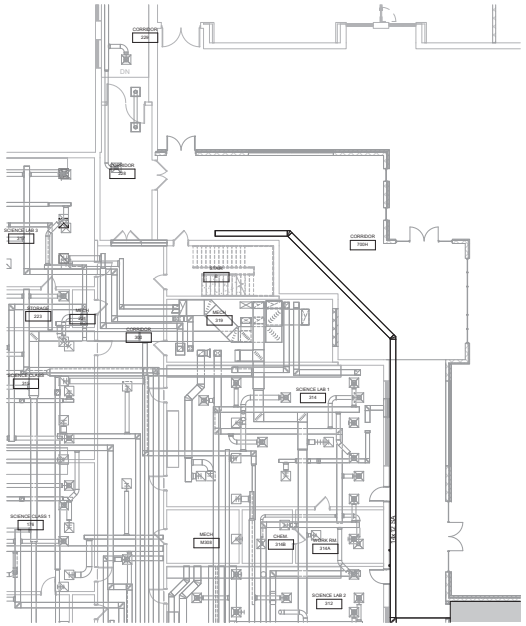
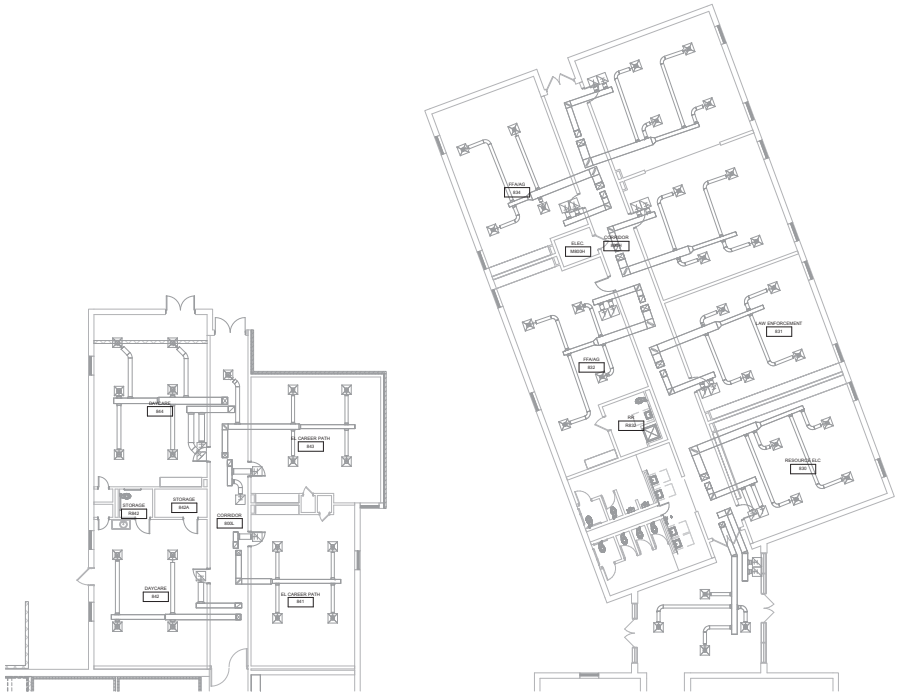
M3.1B

TAGGED NOTES

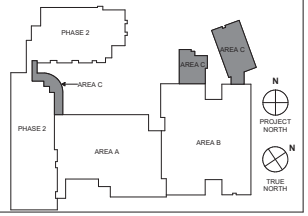


2 FIRST FLOOR PLAN - AIR DISTRIBUTION - NEW WORK - AREA C1
SCALE: 3/32" = 1'-0"



1 FIRST FLOOR PLAN - AIR DISTRIBUTION - NEW WORK - AREA C
SCALE: 3/32" = 1'-0"

KEYPLAN



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FIRST FLOOR PLAN – AIR DISTRIBUTION NEW WORK – AREA C

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M3.1C

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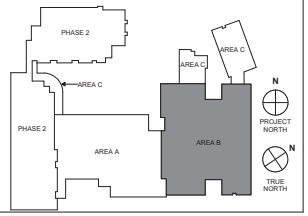
TAGGED NOTES

1 MECHANICAL ROOF PLAN - NEW WORK - AREA B
SCALE: 3/32" = 1'-0"

KEYPLAN



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MECHANICAL ROOF PLAN - NEW WORK - AREA B

Bullitt East High School - Fine Arts Addition
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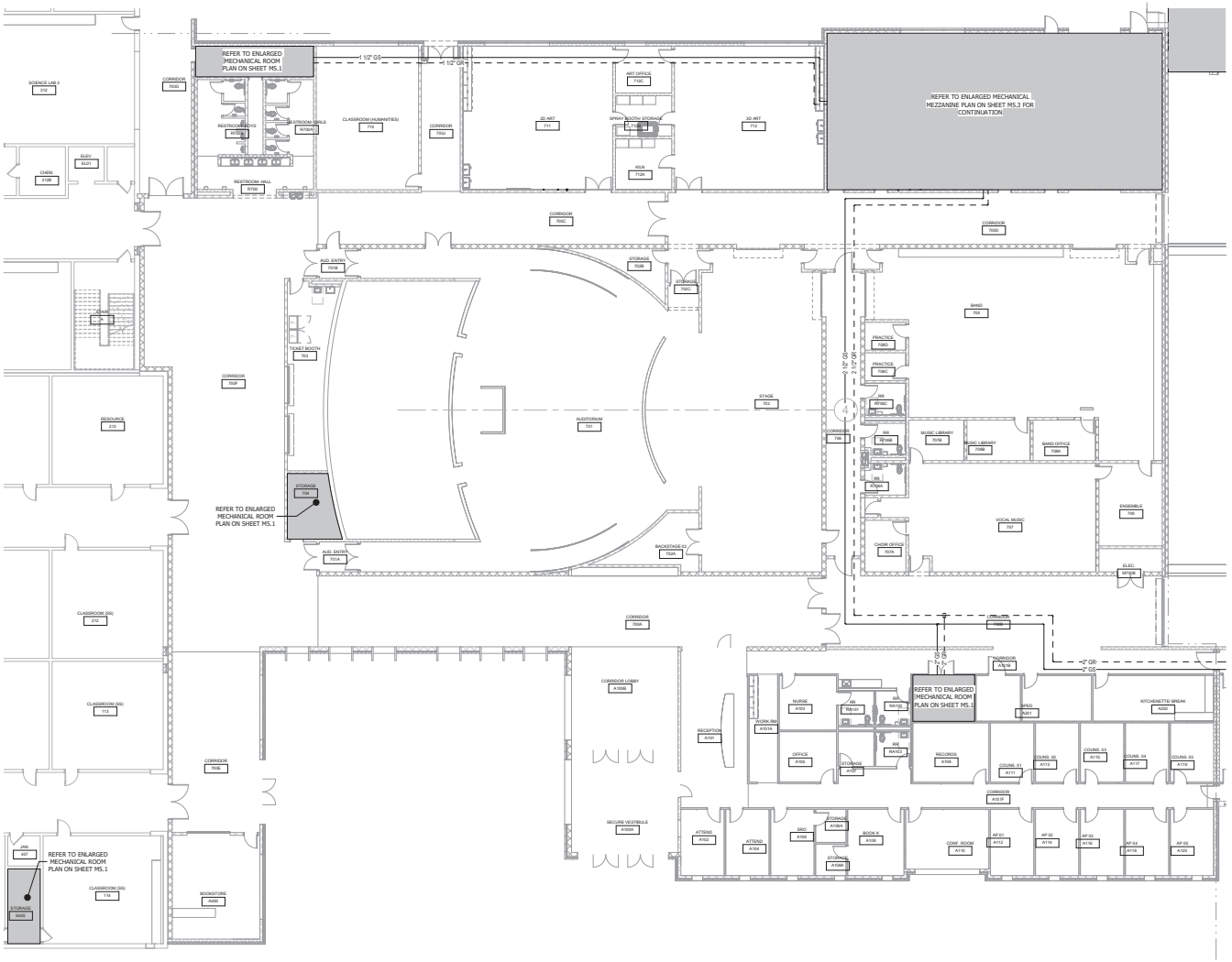
M3.2B

TAGGED NOTES

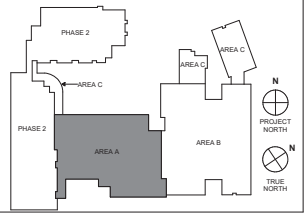


1 FIRST FLOOR PLAN - HYDRONICS - NEW WORK - AREA A
SCALE: 3/32" = 1'-0"

HEAT PUMP RUNOUT SCHEDULE

TAG	INSTANCE	GPM	PIPE RUNOUT SIZE	HOSE KIT SIZE	CONDENSATE PIPE SIZE
VHP		12			
VHP		16			
VHP		12			
VHP					
VHP		30			
VHP		12			
VHP					
VHP		12			
VHP					
VHP		12			
VHP					
VHP		20			
VHP		12			
VHP		4			
VHP		3			
VHP					
VHP		4			
VHP					
VHP		2			
VHP		4			
VHP		1.5			
VHP					
VHP					
VHP		4			
VHP					
VHP					
VHP		30			
VHP					
VHP					
VHP		6			

KEYPLAN



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FIRST FLOOR PLAN - HYDRONICS
NEW WORK - AREA A

Bullitt East High School - Fine Arts Addition
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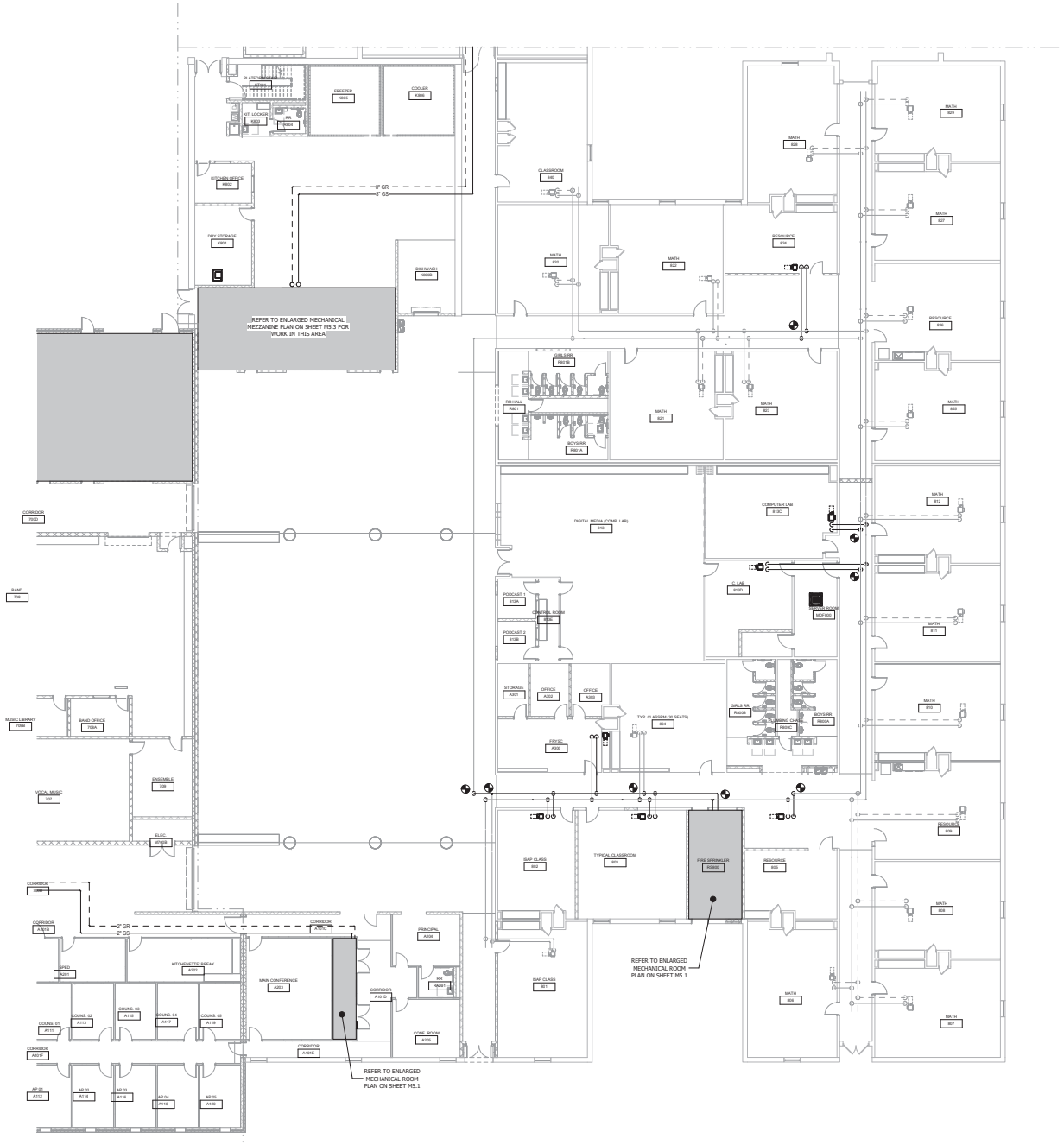
M4.1A

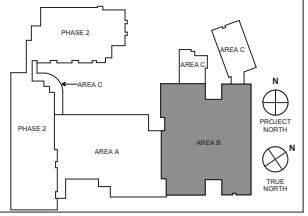


1 FIRST FLOOR PLAN - HYDRONICS - NEW WORK - AREA B
SCALE: 3/32" = 1'-0"

TAGGED NOTES

HEAT PUMP RUNOUT SCHEDULE					
TAG	INSTANCE	GPM	PIPE RUNOUT SIZE	HOSE KIT SIZE	CONDENSATE PIPE SIZE
VHP		12			
VHP		16			
VHP		12			
VHP		30			
VHP		12			
VHP		12			
VHP					
VHP		12			
VHP					
VHP		20			
VHP		12			
VHP		4			
VHP		3			
VHP					
VHP		4			
VHP					
VHP		2			
VHP		4			
VHP		1.5			
VHP					
VHP					
VHP		4			
VHP					
VHP					
VHP		30			
VHP					
VHP					
VHP		6			

KEYPLAN



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FIRST FLOOR PLAN - HYDRONICS
NEW WORK - AREA B

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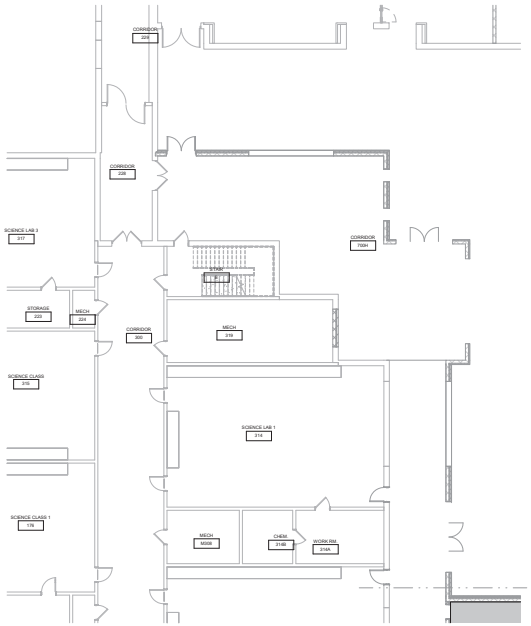
M4.1B

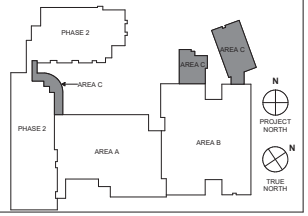
TAGGED NOTES



2 FIRST FLOOR PLAN - HYDRONICS - NEW WORK - AREA C1
SCALE: 3/32" = 1'-0"

1 FIRST FLOOR PLAN - HYDRONICS - NEW WORK - AREA C
SCALE: 3/32" = 1'-0"

KEYPLAN



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FIRST FLOOR PLAN – HYDRONICS
NEW WORK – AREA C

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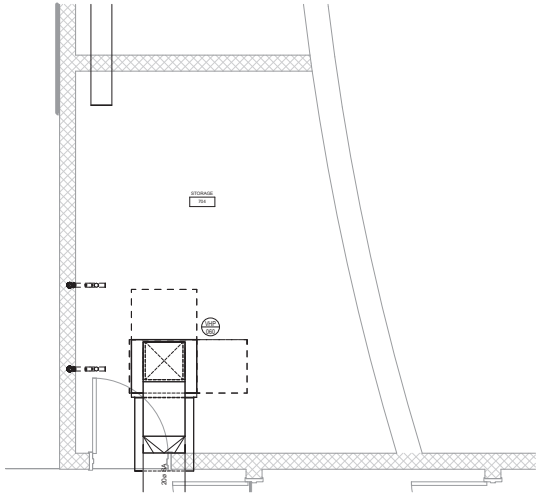
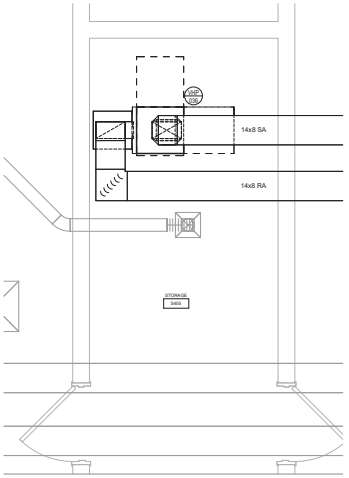
M4.1C

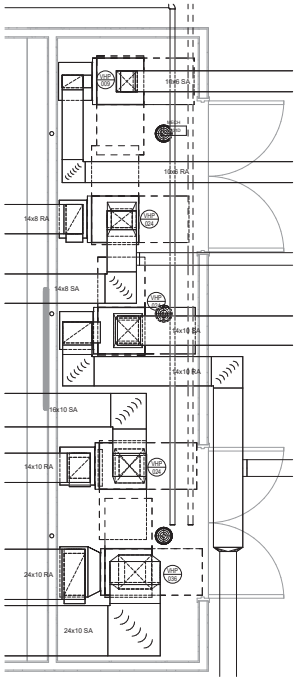
TAGGED NOTES



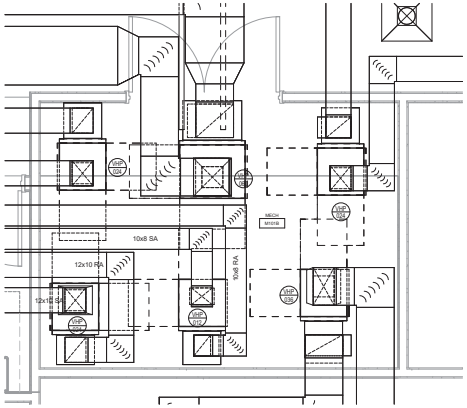
5 M5.0 ENLARGED STOR 704 - AIR DISTRIBUTION NEW WORK
1/2" = 1'-0"



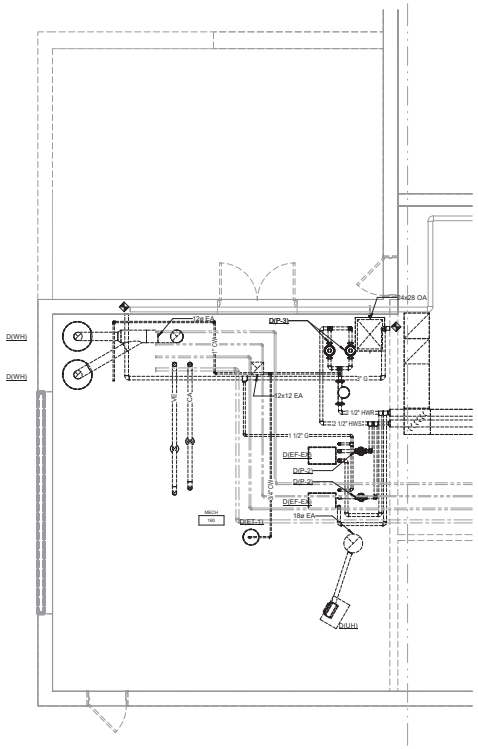
6 M5.0 ENLARGED STOR S405 - AIR DISTRIBUTION NEW WORK
1/2" = 1'-0"



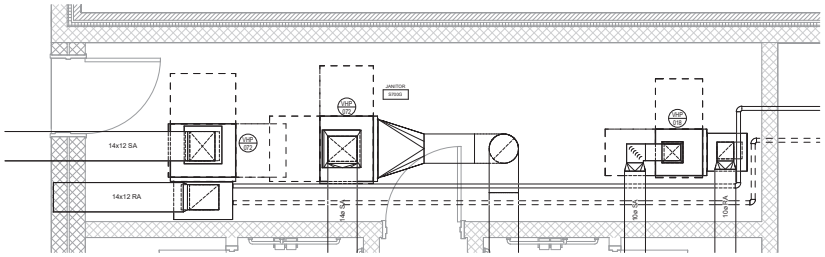
4 M5.0 ENLARGED MECH M101D - AIR DISTRIBUTION NEW WORK
1/2" = 1'-0"



2 M5.0 ENLARGED MECH M101B - AIR DISTRIBUTION NEW WORK
1/2" = 1'-0"



1 M5.0 ENLARGED MECH 160 - MECHANICAL DEMOLITION
1/4" = 1'-0"



3 M5.0 ENLARGED MECH M101C - AIR DISTRIBUTION NEW WORK
1/2" = 1'-0"

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ENLARGED MECHANICAL ROOM PLANS – AIR DISTRIBUTION

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M5.0

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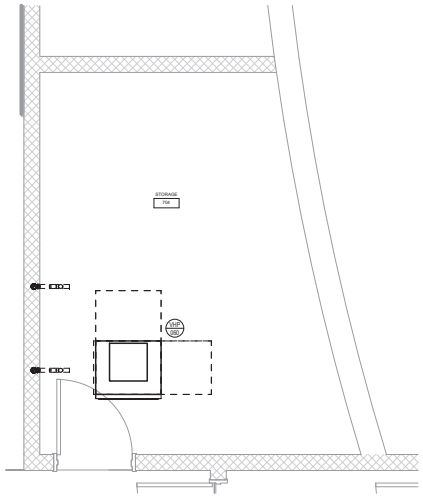
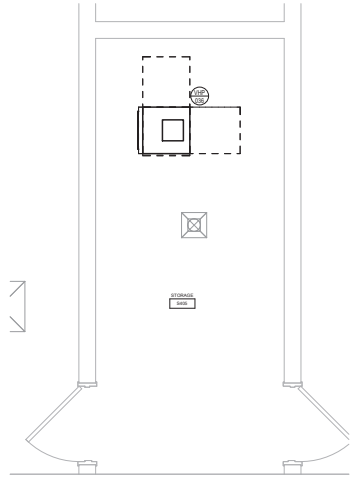
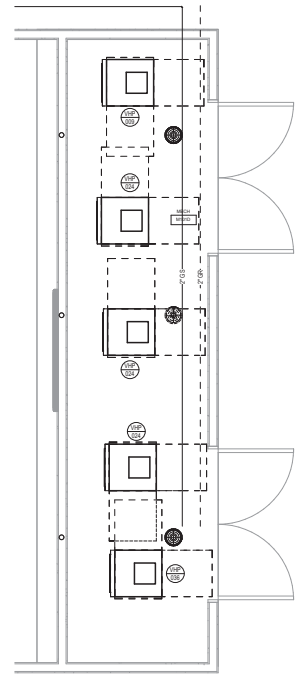


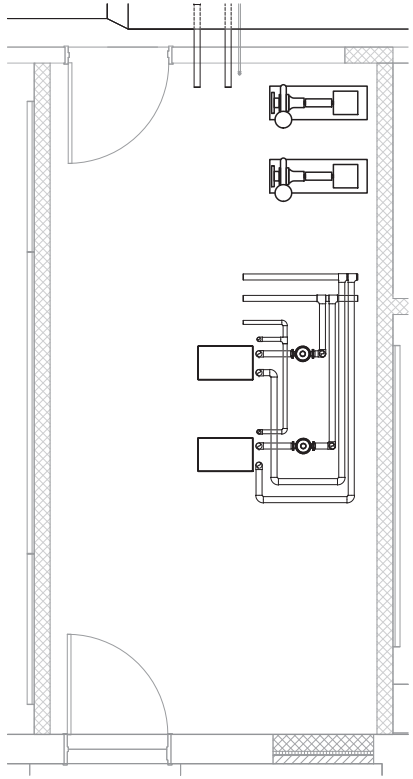
5 / M5.1 ENLARGED STOR 704 - HYDRONICS NEW WORK
1/2" = 1'-0"



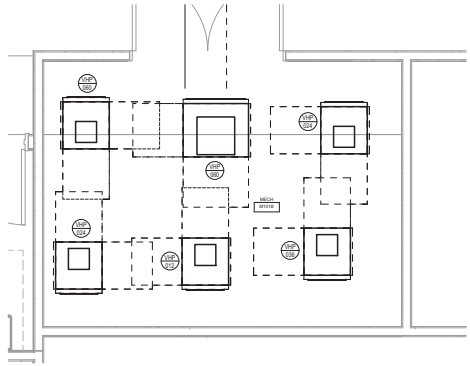
6 / M5.1 ENLARGED STOR S405 - HYDRONICS NEW WORK
1/2" = 1'-0"



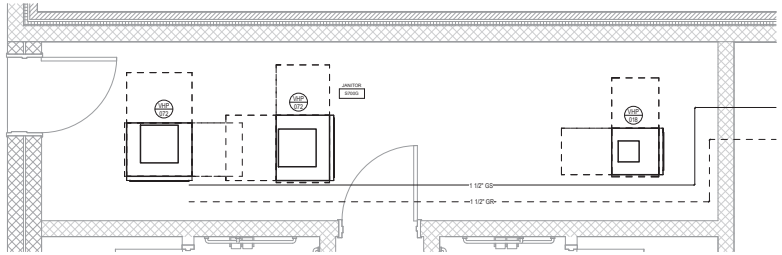
3 / M5.1 ENLARGED MECH M101D - HYDRONICS NEW WORK
1/2" = 1'-0"



4 / M5.1 ENLARGED FIRE SPRINKLER RS800 - HYDRONICS NEW WORK
1/2" = 1'-0"



1 / M5.1 ENLARGED MECH M101B - HYDRONICS NEW WORK
1/2" = 1'-0"



2 / M5.1 ENLARGED MECH M101C - HYDRONICS NEW WORK
1/2" = 1'-0"

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ENLARGED MECHANICAL ROOM PLANS – HYDRONICS

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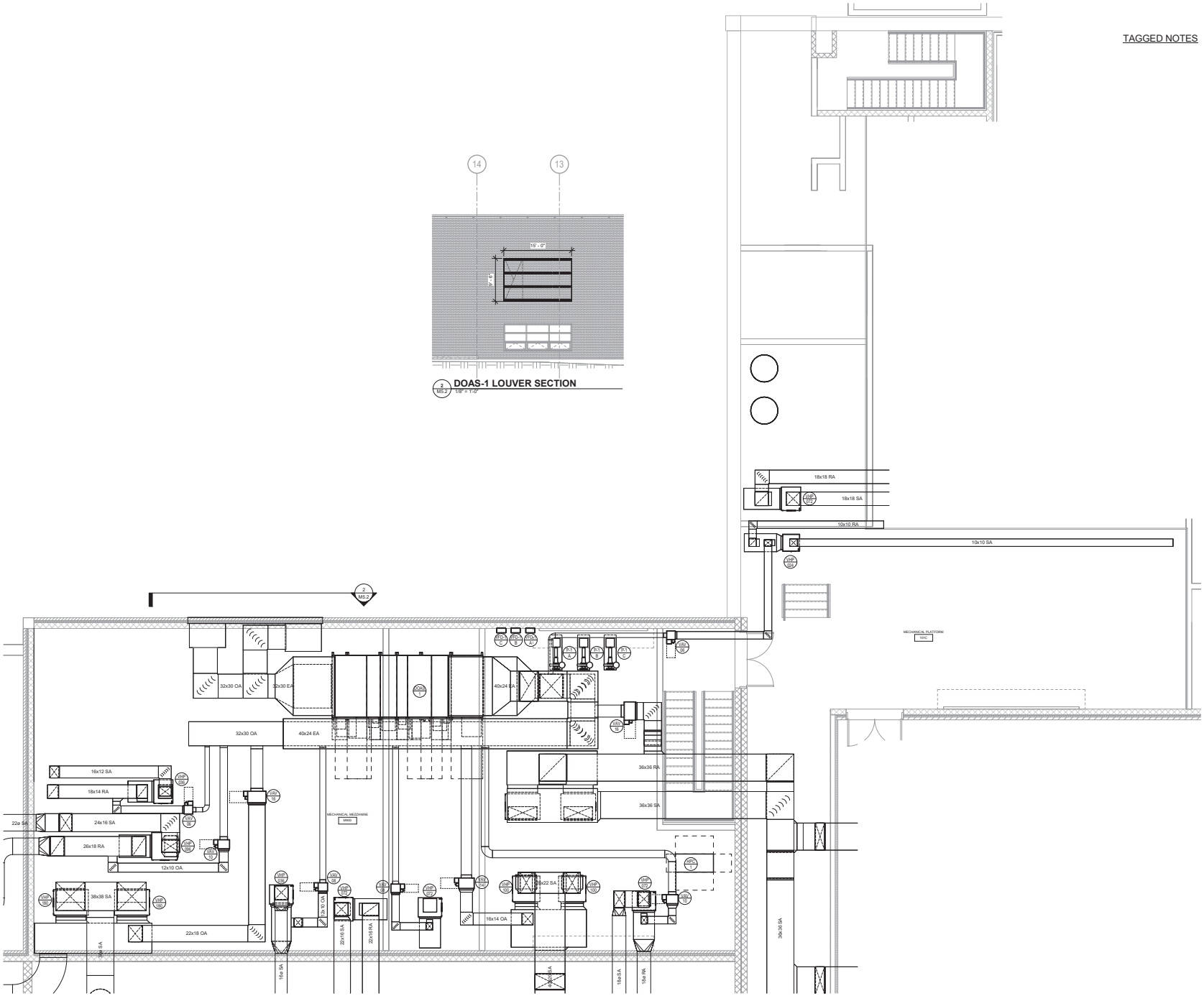
M5.1

TAGGED NOTES

1 M5.2 DOAS-1 LOUVER SECTION
1/8" = 1'-0"



1 M5.2 MECHANICAL MEZZANINE 900 - MECHANICAL NEW WORK
1/4" = 1'-0"

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ENLARGED MECHANICAL MEZZANINE PLAN - AIR DISTRIBUTION

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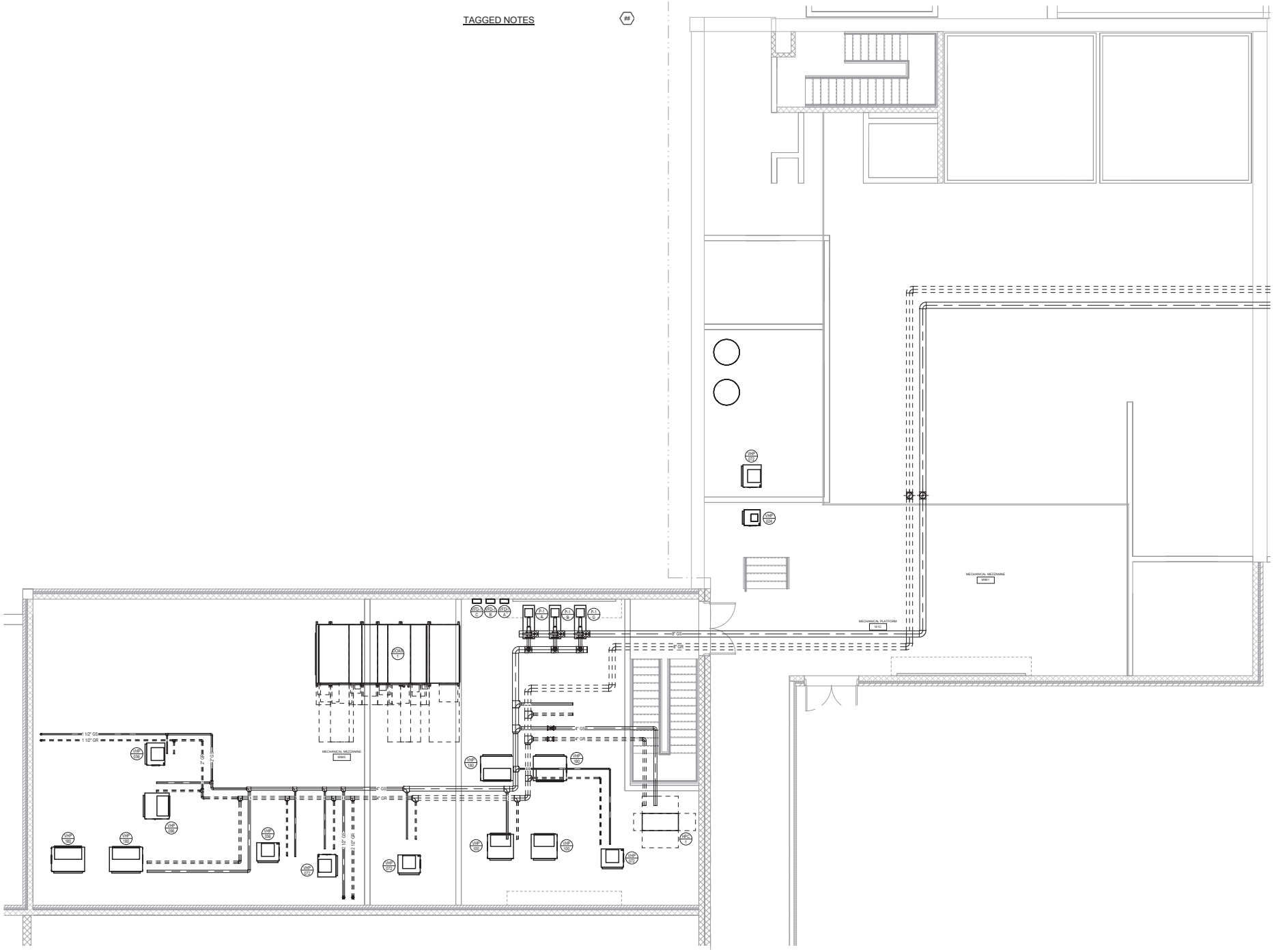
M5.2

TAGGED NOTES



1 MS.3 **MECHANICAL MEZZANINE 900 - HYDRONICS NEW WORK**
1/4" = 1'-0"

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ENLARGED MECHANICAL MEZZANINE PLAN - HYDRONICS

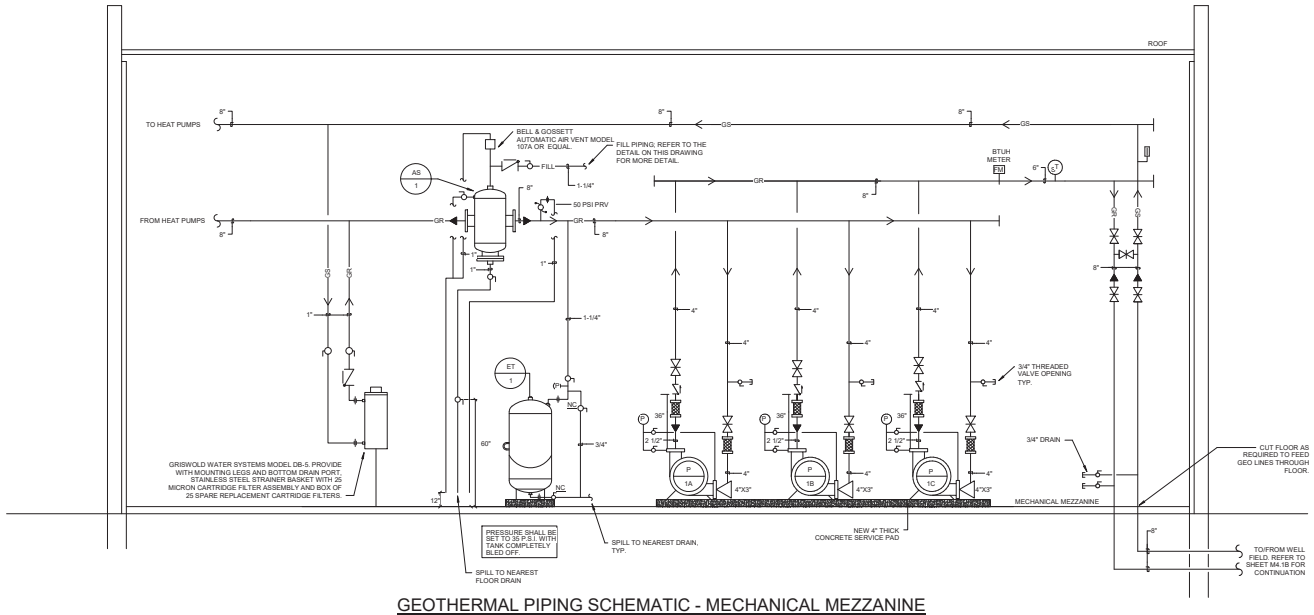
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : SJB
CHECKED BY : JRE
REVISIONS :

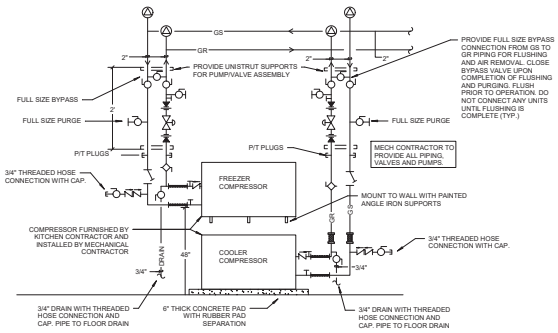
2022-35

M5.3



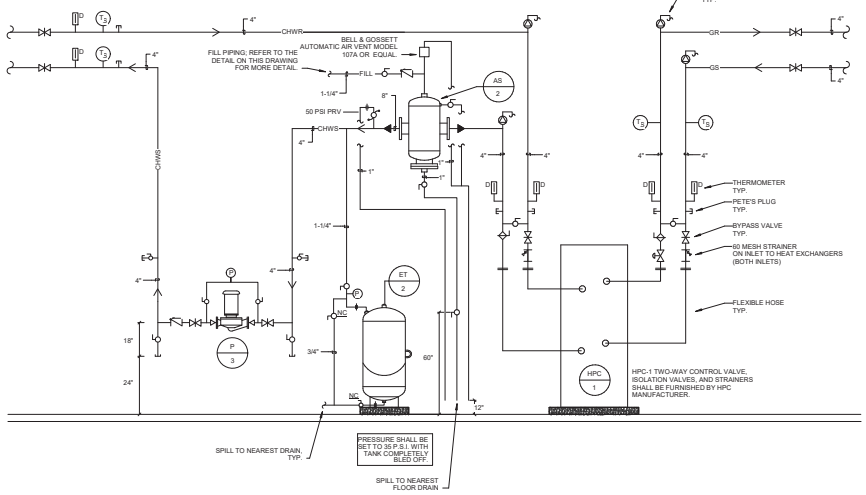
GEOTHERMAL PIPING SCHEMATIC - MECHANICAL MEZZANINE

NOT TO SCALE



FREEZER / COOLER PIPING SCHEMATIC

NTS



2-PIPE HYDRONIC HEAT PUMP CHILLER PIPING SCHEMATIC

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MECHANICAL PIPING SCHEMATICS

Bullitt East High School – Fine Arts Addition
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BG# 23-050

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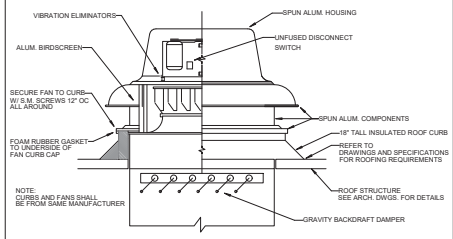
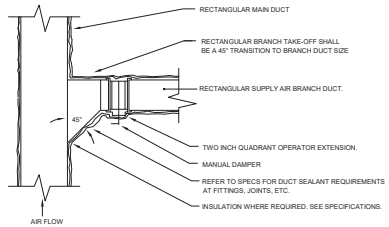
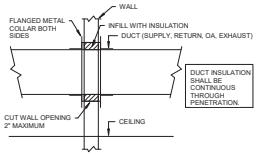


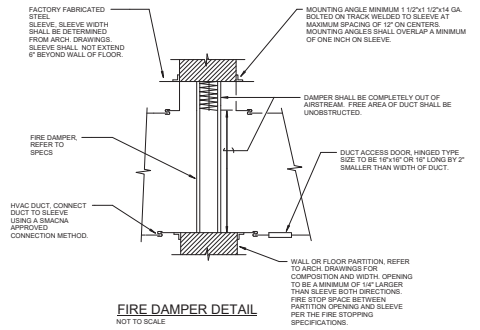
ROOF MOUNTED CENTRIFUGAL EXHAUST FAN DETAIL
NOT TO SCALE



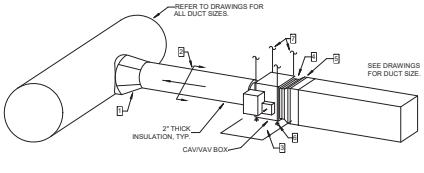
TYPICAL RECTANGULAR SUPPLY, RETURN, & EXHAUST BRANCH DUCT TAKE OFF
NTS



DUCT PENETRATION THROUGH NON-RATED WALL DETAIL
NTS



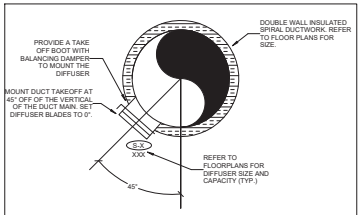
FIRE DAMPER DETAIL
NOT TO SCALE



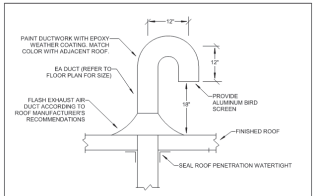
TAG NOTES:

1. HIGH EFFICIENCY DUCT TAKE-OFF - REFER TO DRAWINGS FOR SIZE.
2. MAINTAIN A MINIMUM OF THREE DUCT DIAMETERS BETWEEN TAKE-OFF AND CAV/VAV UNIT. NO FLEXIBLE DUCTWORK ALLOWED ON THE INLET SIDE OF THE UNIT.
3. ACCESS PANEL
4. PROVIDE TRANSITION BETWEEN CAV/VAV UNIT AND DUCT.
5. PROVIDE FLEXIBLE CONNECTION BETWEEN CAV/VAV UNIT AND DUCT.
6. UNI-STRUT WITH ISOLATION PAD.
7. SUPPORT UNIT FROM STRUCTURE.

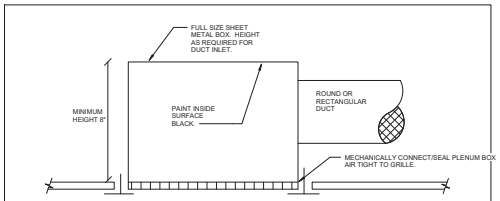
VAV BRANCH DUCT CONNECTION DETAIL
NTS



SIDEWALL DIFFUSER DUCT TAKEOFF DETAIL
NTS

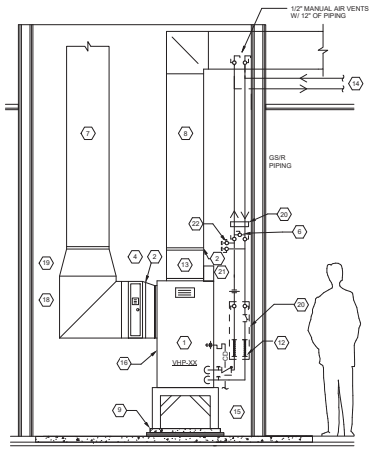


GOOSENECK ROOF PENETRATION DETAIL
NOT TO SCALE



NOTE:

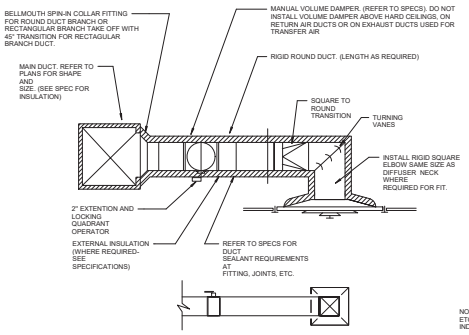
1. PROVIDE MANUAL VOLUME DAMPER IN ALL BRANCH RETURN AND EXHAUST DUCTS SERVING RETURN/EXHAUST GRILLES.
2. WHERE NOTED, RETURN GRILLES SHALL INCLUDE A HINGED FACE AND FILTER. TYPICAL FOR ALL HEAT PUMP RETURNS.

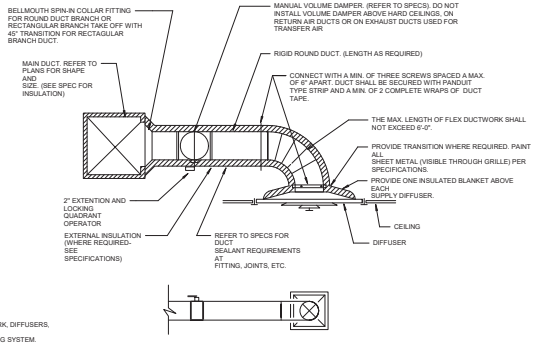


VERTICAL HEAT PUMP INSTALLATION DETAIL
NTS

HEAT PUMP DETAIL TAG NOTES: X

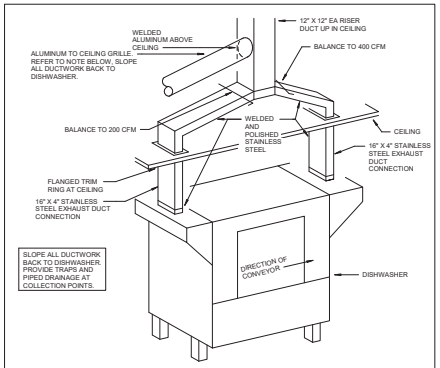
1. VERTICAL HEAT PUMP UNIT. DO NOT BLOCK ACCESS PANEL FOR HEAT PUMP UNIT WITH ANY OBJECT.
2. PROVIDE FLEXIBLE CANVAS CONNECTIONS AT UNIT CONNECTION. TRANSITION DUCTWORK TO UNIT OPENING AS NEEDED.
4. SIDE ACCESS FILTER SECTION. REFER TO SPECIFICATION
6. PROVIDE FULLSIZE BYPASS CONNECTION FROM SUPPLY TO RETURN PIPING FOR FLUSHING AND AIR REMOVAL. CLOSE BYPASS VALVE UPON COMPLETION OF FLUSHING AND PURGING. FLUSH PRIOR TO OPERATION. DO NOT CONNECT ANY UNITS UNTIL FLUSHING IS COMPLETE.
7. RETURN DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
8. SUPPLY DUCTWORK. REFER TO DRAWINGS FOR DUCT SIZE.
9. MOUNT UNIT ON 36" TALL 2X2X2 PAINTED ANGLE IRON STAND. PROVIDE MOUNTING BRACKETS WITH VIBRATION ISOLATING GROMMETS TO SECURE UNIT TO STAND. BOLT STAND TO FLOOR SLAB (OR CONCRETE PAD WHERE INDICATED ON FLOOR PLANS.) PROVIDE VIBRATION ISOLATION NEOPRENE PAD BETWEEN BOTTOM OF UNIT AND STAND.
12. FLEXIBLE HOSE KITS, HOSE KITS SIZE SHALL MATCH PIPE RUN OUT SIZE SCHEDULED. TRANSITION DOWN AT UNIT AS REQUIRED. REFER TO SPECIFICATION FOR FURTHER REQUIREMENTS.
13. TRANSITION FROM FULL SIZE OF UNIT OUTLET TO DUCT SIZE INDICATED ON THE DRAWINGS.
14. REFER TO DRAWINGS FOR CONTINUATION OF PIPING. REFER TO THE PIPING RUNOUT SCHEDULE FOR SIZING.
15. DESIGNER EDIT: (STORM/SAN) ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. REFER TO PIPING RUNOUT SCHEDULE FOR SIZING. ENSURE ALL CONDENSATE PIPING IS INSTALLED SO AS NOT TO CREATE A TRIP HAZARISTRAP/SECURE PIPING TO FLOOR/WALL AS REQUIRED. REFER TO THE PIPING RUNOUT SCHEDULE FOR SIZING.
16. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE ON SIDE OF HEAT PUMP TO ALLOW FOR MAINTENENCE ACCESS.
18. PROVIDE TRANSITION ELBOW WITH VANES FROM SIDE ACCESS FILTER TO RETURN DUCT DEPTH.
19. TRANSITION DUCT FROM ELBOW TO DUCT SIZE INDICATED ON PLANS.
20. SECURELY SUPPORT PIPING FROM WALL. UTILIZE VIBRATION ISOLATION SUPPORTS AT PIPING SUPPORT.
21. FACTORY MOUNTED DISCONNECT.
22. LINE SIZE VALVED AND CAPPED HEAT PUMP FLUSH VALVES AND PURGE.





NOTE: SUPPORT DUCTWORK, DIFFUSERS, ETC. INDEPENDENTLY OF CEILING SYSTEM.

TYPICAL SUPPLY / RETURN / EXHAUST / OA BRANCH DUCT DETAIL
NOT TO SCALE



DISHWASHER EXHAUST DETAIL
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MECHANICAL DETAILS

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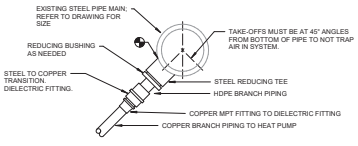
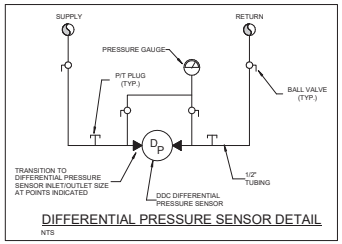
M7.0



GEOTHERMAL PIPING TAP DETAL
NTS



DIFFERENTIAL PRESSURE SENSOR DETAIL
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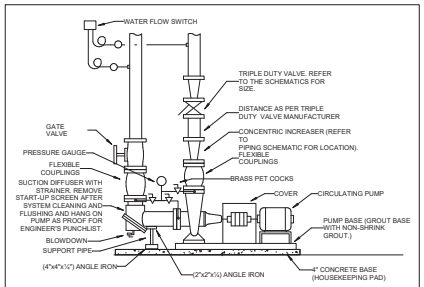
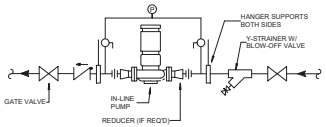
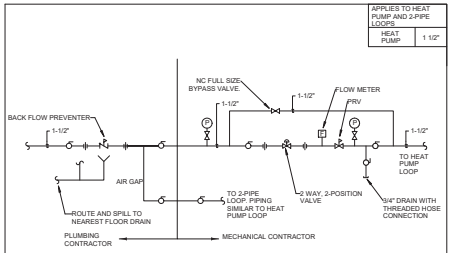


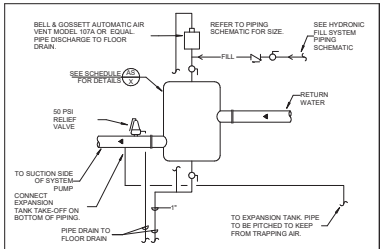
BASE MOUNTED PUMP PIPING DETAIL
NOT TO SCALE



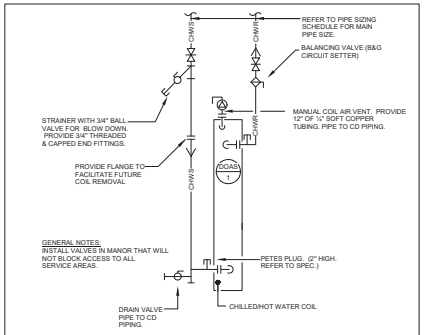
VERTICAL IN-LINE PUMP DETAIL
NTS



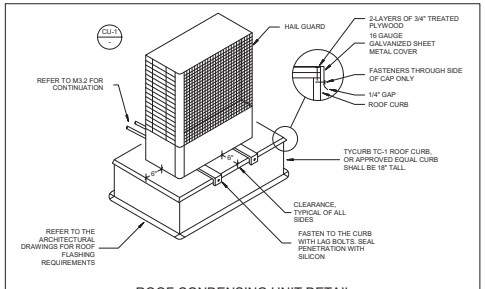
HYDRONIC FILL SYSTEM - PIPING DETAIL
NTS



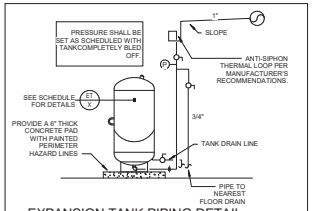
AIR SEPARATOR TANK DETAIL
NOT TO SCALE



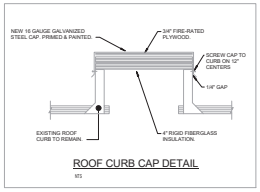
DOAS-1 CHILLED/HOT WATER COIL PIPING DETAIL
NOT TO SCALE



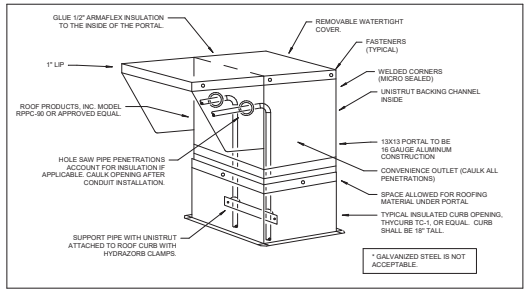
ROOF CONDENSING UNIT DETAIL
NTS



EXPANSION TANK PIPING DETAIL
NTS



ROOF CURB CAP DETAIL
NTS



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MECHANICAL DETAILS

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OUTSIDE AIR UNIT AIRSIDE SCHEDULE

MARK	MANUF.	MODEL	SERVICE	TYPE	LOCATION	NOM. SIZE LxWxH (IN.)	WEIGHT (LBS)	SUPPLY AIR FAN							RELIEF AIR FAN						ENERGY RECOVERY WHEEL												
																					OUTSIDE AIR SIDE							EXHAUST AIR SIDE				
								CFM	# OF FANS - RPM	FAN TYPE	T.S.P/E.S.P (IN WG)	MOTOR HP/BHP (PER FAN)	VOLT.	PH.	VFD	CFM	FAN TYPE	# OF FANS - RPM	T.S.P./E.S.P. (IN WG)	FAN HP	VFD	VOLT.	HP	PH.	CFM	APD	EAT-SUMMER (DB/WB)	LAT-SUMMER (DB/WB)	EAT-WINTER (DB/WB)	LAT-WINTER (DB/WB)	CFM	APD	EAT-SUMMER (DB/WB)	EAT-WINTER (DB/WB)
DOAS-1	DAIKIN	CAH017GDDM	BULLITT EAST ADDITION	100% OUTSIDE AIR	MECH MEZZANINE	200X90X94	6580	10500	1	CENTRIFUGAL-PLENUM	4.85/1.50	15.0	460 V	3		10500	CENTRIFUGAL - PLENUM	1	3.56/1.50	10		460	1	3	10500	0.96	95.0/78.0	81.7/69.1	0.0/-2.0	43.3/35.9	10500	0.96	74.0/62.0	70.0/53.0

OUTSIDE AIR UNIT COIL AND FILTER SCHEDULE

MARK	CHILLED WATER COIL							HOT WATER COIL				PRIMARY FILTER SECTION			
	TOTAL COOLING CAP. (MBH)	SENSIBLE COOLING CAP. (MBH)	EAT (DB/WB) (F)	LAT (DB/WB) (F)	MAX FACE VELOCITY (FPM)	MAX. AIR PRESSURE DROP (IN. WG.)	COIL ROWS/NO. OF COILS	FIN SPACING (FINS/IN)	TOTAL HEATING CAP. (MBH)	EAT (F)	LAT (F)	TYPE	MAX. VELOCITY (FPM)	MINIMUM FILTER AREA (SQ. FT)	RESISTANCE (CLEAN/DIRTY)
DOAS	294.3	184.6	81.7/69.1	54.9/54.4	487	0.71	6/1	10	392.6	41.3	98.3	MERV 8	307	34.1	0.12/1.0

HEAT PUMP CHILLER SCHEDULE

G MARK	SERVICE	MANUFACTURER	MODEL	SIZE (LxWxH)	WEIGHT (LB)	ELECTRICAL				COOLING MODE							HEATING MODE						
						VOLTAGE	PHASE	MCA	MOCP	CHWS/CHWR LWT	CHWS/CHWR GPM/WPD	GS/GR EWT	GS/GR GPM/WPD	COOLING CAP. (TONS)	HEAT OF REJECTION (MBH)	EER	HWS/HWR LWT	HWS/HWR GPM/WPD	GS/GR EWT	GS/GR GPM/WPD	HEATING CAP. (MBH)	HEAT OF ABSORBTION (MBH)	COP
HPC	DOAS CHW/HW	WATERFURNACE	TRU/CLIMATE 100 REVERSIBLE CHILLER (NXW) 240	50.5x24.1x64.2	2352	460 V	3	43 A	60 A														

WATER SOURCE HEAT PUMP SCHEDULE

SYMBOL	INSTANCE MARK	MANUFACTURER	MODEL	NOM. CFM	ESP (IN. WG.)	GPM	WATER PD (FT. H20)	COMPRESSORS	STAGES	SIZE (LxWxH)	ELECTRICAL				HEATING				COOLING						
											VOLTAGE	PHASE	MCA	MOCP	HEATING CAPACITY (MBTU/HR)	EAT (DB)	EWT (DEG. F)	HEAT OF ABSORBTION (MBTU/HR)	COP	SENSIBLE CAPACITY (MBTU/HR)	TOTAL CAPACITY (MBTU/HR)	EAT (DB/WB)	EWT (DEG. F)	HEAT OF REJECTION	EER (DESIGN/AHRI)	REMARKS
VHP	009	WATERFURNACE	VERSATEC 500	300	0.5	1.5		1	1		265 V	1														
VHP	012	WATERFURNACE	VERSATEC 500	400	0.5	2		1	1		265 V	1														
VHP	018	WATERFURNACE	VERSATEC 500	600	0.5	3		1	1		265 V	1														
VHP	024	WATERFURNACE	VERSATEC 500	800	0.5	4		1	2		460 V	3														
VHP	036	WATERFURNACE	VERSATEC 500	1200	0.8	6		1	2		460 V	3														
VHP	072	WATERFURNACE	VERSATEC 500	2400	0.8	12		1	2		460 V	3														
VHP	096	WATERFURNACE	VERSATEC 500	3200	0.8	16		1	2		460 V	3														
VHP	100	WATERFURNACE	VERSATEC 500	4000	0.8	20		1	2		460 V	3														
VHP	180	WATERFURNACE	VERSATEC 500	6000	0.8	30		2	2		460 V	3														

REGISTERS, GRILLES, AND DIFFUSERS

MARK	MANUFACTURER	MODEL	TYPE	CFM RANGE	FACE SIZE	INLET DUCT SIZE	NECK SIZE	REMARKS
	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	
E-1	METALAIRE	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	0-100	10"x10"	6" DIA.	6" DIA.	
E-1A	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	101-225	15"x15"	8" DIA.	8" DIA.	
E-2	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	101-225	15"x15"	8" DIA.	8" DIA.	
E-3	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	226-400	24"x24"	10" DIA.	10" DIA.	
R-1	TITUS	CC-5	ALUMINUM 1/2" EGG CRATE	0-100	22"x22"	-	6" DIA.	
R-2	TITUS	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	
R-3	TITUS	CC-5	ALUMINUM 1/2" EGG CRATE	226-400	22"x22"	-	10" DIA.	
R-4	TITUS	CC-5	ALUMINUM 1/2" EGG CRATE	401-600	24"x24"	-	12" DIA	
R-5	TITUS				24"x24"	-		
R-6	TITUS							
S-1	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	0-100	10"x10"	6" DIA.	6" DIA.	
S-2	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	101-225	15"x15"	8" DIA.	8" DIA.	
S-3	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	226-400	18"x18"	10" DIA.	10" DIA.	
S-4	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	401-600	24"x24"	12" DIA	12" DIA	
S-5	TITUS							
S-6	TITUS	5000 SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER ALUMINUM ADJUSTABLE SQUARE DIFFUSER	226-400	18"x18"	10" DIA.	10" DIA.	

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	DEPTH (IN)	CONSTRUCTION	CFM	WIDTH (IN)	HEIGHT (IN)	FREE AREA	VELOCITY (FPM)	APD (IN. WG.)	BIRD SCREEN	DRAINABLE BLADE	REMARKS

M EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	SERVICE	TYPE	AIRFLOW (CFM)	E.S.P.	DRIVE	RPM	FAN HP	ELECTRICAL DATA			SONES	REMARKS
										VOLTAGE	PHASE	HZ		

HYDRONIC PUMP SCHEDULE

MARK	INSTANCE	MANUFACTURER	TYPE	MODEL	SERVICE	GPM	HEAD (FT)	VFD	HP	BRAKE HP	MIN. EFFICIENCY(%)	RPM	VOLTAGE	PHASE	FREQUENCY	REMARKS
P-1																
P-1																
P-1																
P-1																
P-1																

KITCHEN HOOD SCHEDULE

MARK	MANUFACTURER	MODEL #	DIMENSIONS (IN)			CFM	PD (" WC)	MATERIAL	REMARKS
			LENGTH	DEPTH	HEIGHT				

AIR SEPARATOR SCHEDULE

GENERAL			CAPACITY			ACCESSORIES	
SYMBOL	MANUFACTURER	MODEL	INLET/OUTLET SIZE	GPM (ACTUAL)	MAX WPD (FT)	INTEGRAL STRAINER	ASME RATED

VAV BOX SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	INLET	OUTLET	MAXIUMUM (CFM)	MINIMUM (CFM)	MAX TOTAL APD AT MAX CFM

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SERVICE	CAPACITY			
					TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	PHYSICAL SIZE	AIR PRESSURE CHARGE
XX-X								

INTAKE/EXHAUST HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	AIR P.D.	THROAT SIZE	WEIGHT	VELOCITY FPM

VARIABLE FREQUENCY DRIVE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	MOTOR HP	ELECTRICAL			FUSED DISCONNECT & NEMA 12 ENCLOSURE	BYPASS STARTER
					VOLTS	PH	HZ		
VFD-1									

GAS FIRED MAKEUP AIR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	LOCATION	CONFIGURATION	DIMENSIONS (IN)			WEIGHT (LBS.)	CFM	E.S.P. (IN WG)	MAXIMUM SONES	DIRECT FIRED GAS HEATING				VFD	ELECTRICAL DATA			REMARKS
							LENGTH	WIDTH	HEIGHT					INPUT (MBH)	OUTPUT (MBH)	TEMPERATURE RISE	ALLOWABLE GAS INLET PRESSURE (PSI)		FLA	VOLTAGE	PHASE	

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MANUF.	MODEL	DIMENSIONS (IN.)			WEIGHT (LBS)	AIRFLOW (CFM)	ELECTRICAL DATA		REMARKS
			LENGTH	WIDTH	HEIGHT			VOLTAGE	PHASE	

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	MANUF.	MODEL #	DIMENSIONS (IN.)			WEIGHT (LBS)	TOTAL COOLING (MBH)	HEATING CAPACITY (MBH)	MINIMUM SEER	ELECTRICAL DATA				REMARKS
			LENGTH	WIDTH	HEIGHT					MCA	MOCP	VOLTAGE	PHASE	
D(CU-EX)														

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BG MOVING FORWARD

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MECHANICAL SCHEDULES

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : SJB
CHECKED BY : JRE
REVISIONS :

2022-35

M8.0

WELL FIELD FLUSHING & PURGING REQUIREMENTS:

1. THE ENTIRE WELL FIELD SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS (DIRT, PIPING SHAVINGS AND OTHER FOREIGN MATERIALS) TRAPPED WITHIN THE PIPING, REFER TO SPECIFICATIONS AND DRAWINGS M___ FOR MORE INFORMATION.
2. FILL THE WELL FIELD WITH CLEAN WATER AND PURGE. PURGING FLOW RATE FOR A BORE SHALL BE A MINIMUM FLOW OF 15 GPM PER BORE. MAINTAIN 200 GPM MINIMUM PER CIRCUIT FOR 6 BORE CIRCUITS. THIS TOTAL FLOW RATE SHALL BE MAINTAINED FOR A MINIMUM OF (4 HOURS PER CIRCUIT) TO REMOVE AIR DEBRIS FROM THE HEAT EXCHANGER LOOP.
3. THE WELL FIELD PURGE SHALL BE WITNESSED AND VERIFIED BY A TEST & BALANCE (T&B) CONTRACTOR AND OWNER. THE T&B CONTRACTOR SHALL VERIFY THAT THE MINIMUM FLOW RATE AND VELOCITY IS ACHIEVED. ADDITIONALLY, THE T&B CONTRACTOR SHALL MEASURE THE TOTAL HEAD REQUIRED TO FLOW THE MINIMUM PURGE RATE REQUIREMENTS.
4. AFTER FLUSHING AND PURGING IS COMPLETE, BUT PRIOR TO BACKFILL THE CONTRACTOR SHALL TEST THE SYSTEM TO CONFIRM THERE HAVE NOT BEEN ANY FABRICATION OR INSTALLATION ERRORS. THIS SHALL BE ACCOMPLISHED BY MEASURING AND RECORDING CIRCUIT PRESSURE DIFFERENTIALS (WITH PURGING FLOW RATES) AT THE SUPPLY AND RETURN PIPING WITHIN THE VAULT. THE PRESSURE DROP THROUGH THE CIRCUITS (UTILIZING ACTUAL INSTALLATION CONFIGURATION) SHALL BE ESTIMATED BY THE CONTRACTOR AND REVIEWED BY THE ENGINEER. IF INCONSISTENCIES ARISE FROM THE PROCESS, THIS CONTRACTOR SHALL INVESTIGATE AND REMEDY THE PROBLEMS AND RE-TEST THE CIRCUIT(S) AT NO ADDITIONAL COST.

BEFORE YOU DIG:

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 811 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.

GENERAL NOTES:

A. ALL GEOTHERMAL PIPING INSTALLED AS PART OF THIS PROJECT SHALL BE SURVEYED BY A LAND SURVEYOR LICENSED IN THE STATE OF KENTUCKY. THE SURVEY SHALL BE FURNISHED ON A COMPACT DISC IN AUTOCAD "DWG" FORMAT AND PDF FORMAT. ALSO FURNISH ONE MYLAR COPY. ALL VERTICAL BORES SHALL BE LOCATED WITH A GPS LOCATOR, AND THE GPS COORDINATE INCLUDED ON THE RECORD DRAWINGS.
B. REFER TO DRAWING UM1.1 AND SPECIFICATIONS FOR BURY DEPTH AND BACKFILL INFORMATION.

WELLFIELD INFORMATION:

NUMBER OF WELLS - 98
NUMBER OF INDEPENDENT CIRCUITS - 8
NUMBER OF WELLS PER CIRCUIT - 13
DEPTH OF WELL - 300'
WELL PIPE SIZE - 1 1/4"
WELL SPACING - 20' O-C
WELL FIELD FLOW - 625 GPM

UNDISTURBED FORMATION TEMPERATURE = 57.7°F
THERMAL CONDUCTIVITY = 1.58 BTU/HR-FT-°F
THERMAL DIFFUSIVITY = 1.16 FT²/DAY

3 UM1.0 **MECHANICAL SITE PLAN**
1" = 40'-0"

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studio

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MECHANICAL SITE PLAN

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Mt. Washington, KY 40047

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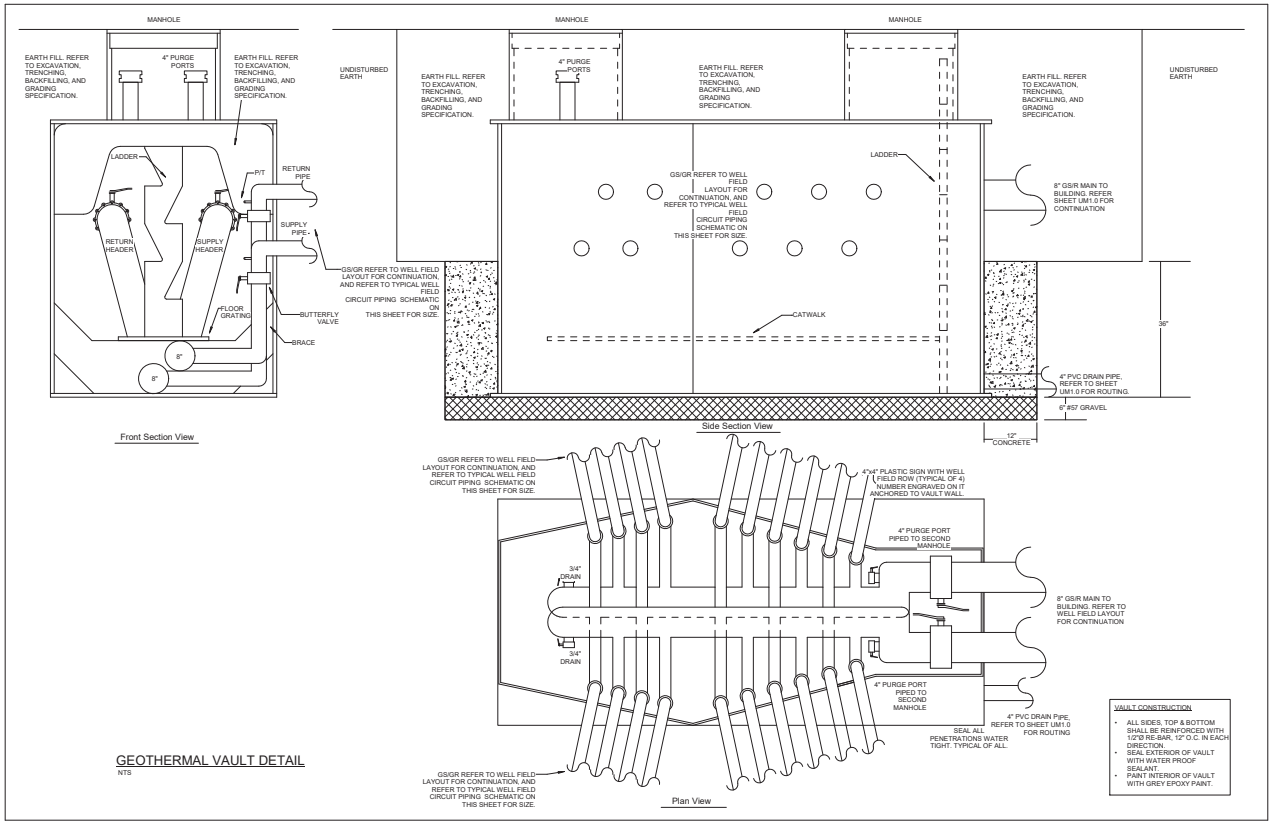
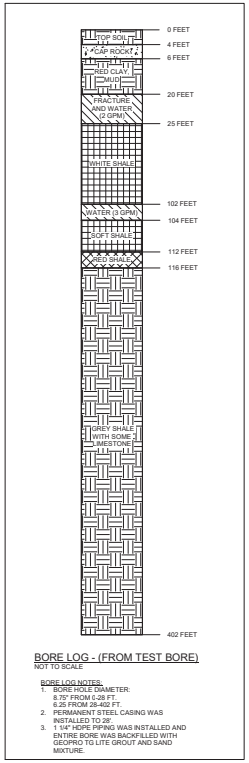
UM1.0



GEOTHERMAL VAULT DETAIL
NTS

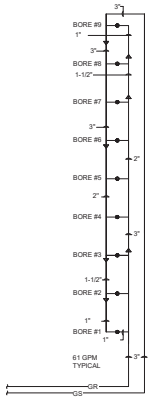
VAULT CONSTRUCTION

- 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.



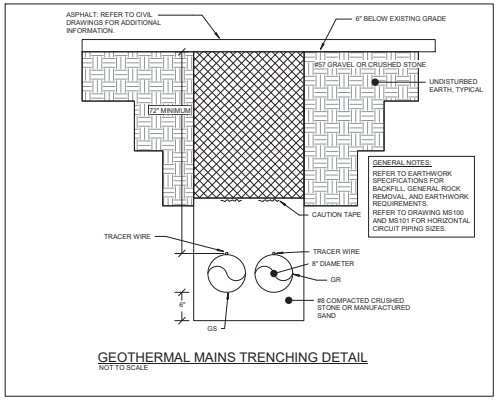
BORE LOG - (FROM TEST BORE)
NOT TO SCALE

BORE LOG NOTES:
1. BORE HOLE DIAMETER: 8.75" FROM 0-28 FT. 6.25 FROM 28-402 FT.
2. PERMANENT STEEL CASING WAS INSTALLED TO 28'.
3. 1 1/4" HDPE PIPING WAS INSTALLED AND ENTIRE BORE WAS BACKFILLED WITH GEOPRO TG LITE GROUT AND SAND MIXTURE.



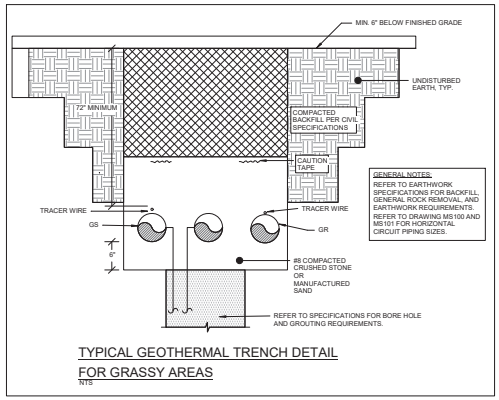
NOTES:
1) PIPE SIZES TYPICAL
2) WELLS SHALL BE LOCATED ON 20 FOOT CENTERS.

TYPICAL WELLFIELD CIRCUIT PIPING SCHEMATIC
NTS



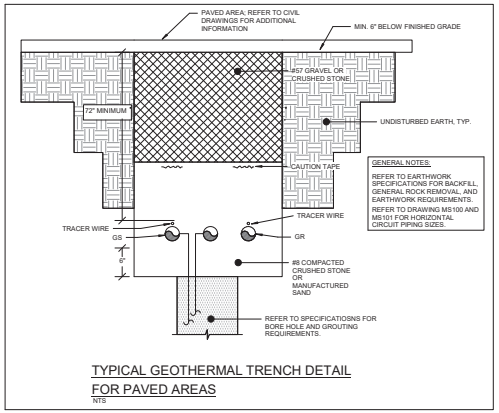
GENERAL NOTES:
REFER TO EARTHWORK SPECIFICATIONS FOR BACKFILL, GENERAL ROCK REMOVAL, AND EARTHWORK REQUIREMENTS.
REFER TO DRAWING MS100 AND MS101 FOR HORIZONTAL CIRCUIT PIPING SIZES.

GEOTHERMAL MAINS TRENCHING DETAIL
NOT TO SCALE



GENERAL NOTES:
REFER TO EARTHWORK SPECIFICATIONS FOR BACKFILL, GENERAL ROCK REMOVAL, AND EARTHWORK REQUIREMENTS.
REFER TO DRAWING MS100 AND MS101 FOR HORIZONTAL CIRCUIT PIPING SIZES.

TYPICAL GEOTHERMAL TRENCH DETAIL FOR GRASSY AREAS
NTS



GENERAL NOTES:
REFER TO EARTHWORK SPECIFICATIONS FOR BACKFILL, GENERAL ROCK REMOVAL, AND EARTHWORK REQUIREMENTS.
REFER TO DRAWING MS100 AND MS101 FOR HORIZONTAL CIRCUIT PIPING SIZES.

TYPICAL GEOTHERMAL TRENCH DETAIL FOR PAVED AREAS
NTS

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MECHANICAL SITE DETAILS

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2022-35

UM1.1

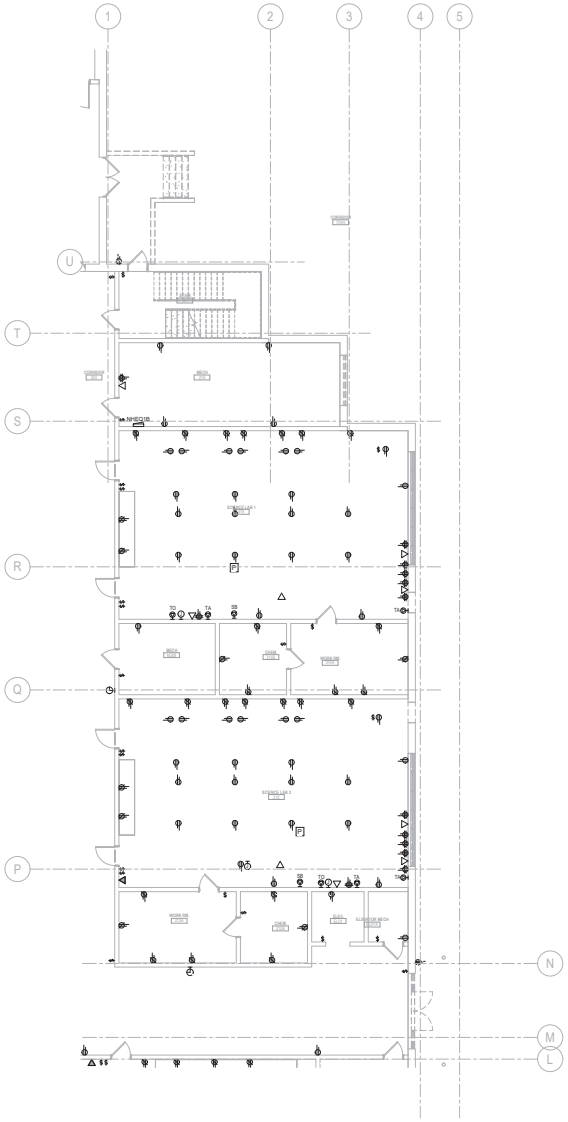
ELECTRICAL GENERAL NOTES:

A. EACH CONTRACTOR, PROPOSER, 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 TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
B. 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.
C. 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.
D. 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.
E. 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.
F. 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.
G. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE. TO ALLOW CLARIFICATION BY WRITTEN ADDENDA.
H. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
I. 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.
J. 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.).
K. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE (NO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
L. 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.
M. DO NOT RECESS PANELBOARD TUBS OR OTHER PULLSHOX OR EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
N. 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.
O. 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.
P. 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.
Q. 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.
R. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH 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.
S. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY RECEIVE TO COMPLETE THEIR WORK (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).
T. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
U. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2X2 TILE AND CENTERLINE OR INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.
V. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISE 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.
W. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
X. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT.
Y. 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.
Z. 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.
AA. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE ANY INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
BB. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PREA-MANUFACTURED ENCLOSURES AROUND RECESSED CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
CC. 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).
DD. 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.
EE. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSIDAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
FF. 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.
GG. 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 REMARK RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. 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.
HH. 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.
II. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME. PROVIDING PREMIUM TIME AS NEEDED.
JJ. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF LUMINAIRES AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
KK. 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 ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
LL. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.
MM. 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.
NN. 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.
OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
PP. 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.
QQ. 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.
RR. 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.
SS. DO NOT SCALE FROM DRAWINGS. AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
TT. 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.
UU. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORDED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
VV. 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.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES		
LIGHT SWITCH GENERAL PURPOSE	46"	
THREE-WAY SWITCH	46"	
FOUR-WAY SWITCH	46"	
KEYED SWITCH	46"	
DIMMER SWITCH	46"	
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	
MOMENTARY CONTACT SWITCH	46"	
TIMER SWITCH	46"	
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	
OCCUPANCY OR VACANCY SENSOR SWITCH W/ DIMMING	46"	
DIGITAL WALL SWITCH (REFER TO DETAIL)	46"	
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	
OCCUPANCY OR VACANCY SENSOR, WALL MOUNT	WALL	
DAYLIGHT SENSOR AS NOTED	AS NOTED	
EMERGENCY AUTOMATIC RELAY (UL924) FOR LIGHTING CONTROLS (REFER TO DETAIL)		
EMERGENCY AUTOMATIC TRANSFER DEVICE (UL1008) FOR LIGHTING CONTROLS (REFER TO DETAIL)		
INDICATES CONTROL ZONE, DAYLIGHT ZONE OR BOTH - REFER TO DETAIL		
POWER OUTLETS		
ALL RECEPTACLES ARE REQUIRED TO BE TAMPER RESISTANT		
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT	46"	
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)	46"	
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		
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.	
SS INDICATES SURGE SUPPRESSION TYPE OUTLET(S)		
GROUND FAULT BREAKER PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	
DUPLEX FOR ELECTRIC WATER COOLER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE BREAKER TYPE GFCI PROTECTION WITH OUTLET LABEL		
KITCHEN PEDESTAL DUPLEX - SEE DETAIL		
BASE MOUNTED BOOKSHELF OUTLET - SEE DETAIL		
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	5'-8" TO TOP	FACP
PULL STATION - DOUBLE ACTION	48" TO LEVER	F
KEYED, LOCKED PULL STATION - DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	48" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F V
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A V
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE ALARM SINGLE STATION W/SOUNDER BASE	CLG	CM
DOOR HOLDER - WALL TYPE	WALL	DH
DOOR HOLDER - CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DS
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
CONNECTION TO SPRINKER PRESSURE SWITCH WITH ADDRESSABLE MODULE		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAA/M
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"	NAC
FIRE ALARM SURGE PROTECTIVE DEVICE		SPD
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 PHONE JACK	4'-6"	FPJ
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
INDICATES CHIME AUDIBLE NOTIFACTION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL
DEVICE PROVIDED WITH WIREGUARD PROTECTION		WG

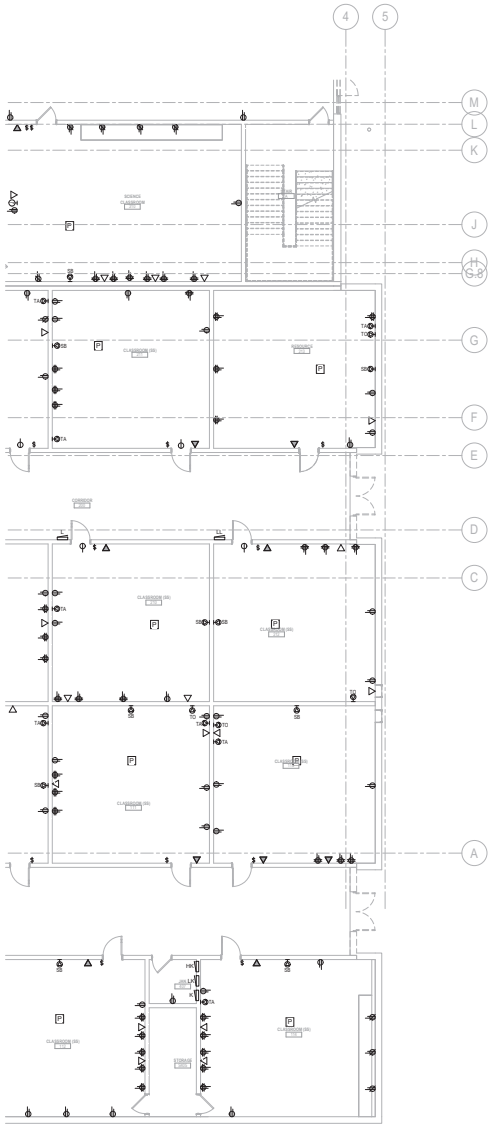
DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
FLOODLIGHT		
SURGICAL/EXAM LIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		
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		
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"	
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
PUSHBUTTON STATION	46"	
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		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES. POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, EDWARDS 885-5R AND 147 GANG PLATE.	46"	DB
DOORBELL AUDIO STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. EDWARDS 340 4" BELL, SURFACE BELL, RECESSED BACKBOX.	7'-6"	DA
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
INDICATES MOUNTING ABOVE COUNTER-TOP, 2" ABOVE BACKSPLASH, NO HIGHER THAN 48"		
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC. AS SUITABLE FOR OUTDOORS.		
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		
INDICATES EMERGENCY POWER		
INDICATES MULLION MTD - PROVIDE CUT-IN BOX AND FLEXIBLE METAL CONDUIT TO ABOVE CEILING IN MULLION. COORDINATE WITH SHOP DRAWINGS.		
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 ASSIF NEEDED.		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	46"	GEN-A
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT STUB-UP. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS		T
CLASSROOM WIRING TROUGH, DATA, TOKEN RING, COAX AND BREAKERS TO BE REMOVED		CT
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	

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
INDICATES EMERGENCY POWER		EM
FLOOR OUTLETS AND DEVICES		
FLOODBOX, 2 GANG PROVISION FOR (4) DUPLEX OUTLETS AND (2) GANG PROVISION FOR (6) DATA, LEGRAND RFB8E-CG WITH SURFACE OR FLUSH 8" ROUND COVER AND FINISH AS SELECTED BY ARCHITECT, HUBBELL EQUAL. PROVIDE 1" CONDUIT TO ABOVE CEILING FOR DATA.	FLOOR	FBA
FLOORBOX, 2 GANG PROVISION FOR (4) DUPLEX OUTLETS AND (2) GANG PROVISION FOR (4) DATA, LEGRAND RFB8EC-DG WITH HEAVY DUTY/HEAVY LOAD SURFACE OR FLUSH 8" ROUND COVER AND FINISH AS SELECTED BY ARCHITECT, FSR EQUAL. PROVIDE 1" CONDUIT TO ABOVE CEILING FOR DATA AND 1" FOR AV.	FLOOR	FBB
FLOORBOX, 2 GANG PROVISION FOR (2) DUPLEX OUTLETS, (2) GANG PROVISION FOR (2) DATA AND (2) GANG PROVISION FOR FUTURE AV LEGRAND RFB8E-DG WITH SURFACE OR FLUSH 8" ROUND COVER AND FINISH AS SELECTED BY ARCHITECT, HUBBELL EQUAL. PROVIDE 1" CONDUIT TO ABOVE CEILING FOR DATA AND 1" FOR AV.	FLOOR	FBC
OVERHEAD PAGING		
PAGING SPEAKER: CEILING	CLG	
PAGING SPEAKER W/ VOLUME CONTROL	CLG	
AIRCRAFT CABLE PENDANT SUSPENDED SPEAKER	CABLE	
SURFACE/JOIST MOUNTED SPEAKER	SURFACE	
PAGING SPEAKER: WALL	8'-0"	
CLASSROOM PAGING IP MODULE	8" ABOVE CEILING	
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SIZE AS NOTED, COLOR SELECTED BY ARCHITECT/OWNER. QUAM IXPS	SEE FLOOR PLANS	
CALL INITIATION STATION	48"	
WALL VOLUME CONTROL	48"	
INTERCOM CALL BACK STATION	48"	
ADMINISTRATIVE CONSOLE PHONE	DESK	
INTERCOM MEDIA SOURCE INPUT	SEE DETAIL	
PAGING SYSTEM AMPLIFIER/TUNER CABINET	46"	RA
CLOCKS		
ANALOG CLOCK		
WIRELESS INTERCOM ANALOG CLOCK		IC
ABANDONED DIGITAL CLOCK		DC
DIGITAL CLOCK: SINGLE FACE		DC
DIGITAL CLOCK: DUAL FACE		DDC
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED. COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR.		
PANEL FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS REQUIRED. COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR.		
POWER CONNECTION TO PANEL FURNITURE. PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE. PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	FP
COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE. PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE. PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	FF
DATA / VOICE		
DATA OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS (NO # INDICATES (1) DATA DROP	1'-6"	V W
DATA OUTLET WALL MOUNTED VOICE DEVICE	48"	WAP
WIRELESS ACCESS POINT WITH PROVISIONS FOR (2) DATA OUTLETS FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH PANDUIT MINICOM SURFACE BOX TERMINATED ON CABLE ABOVE CEILING HUNG FROM J-HOOK NO MORE THAN 24" ABOVE CEILING, AT EACH OUTLET. PROVIDE A 15' 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 ACCESS POINT LOCATIONS. PROVIDE WITH 3'-0" FINAL PATCH CABLE.		
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION



1 PARTIAL FIRST FLOOR PLAN - AREA A1 - ELECTRICAL DEMOLITION

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



2 PARTIAL FIRST FLOOR PLAN - AREA A2 - ELECTRICAL DEMOLITION

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

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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 (U.O.N.). 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. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW 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. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.

M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.

N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

O. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.

P. 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, DUCTWORK, PIPING, ETC TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. REPLACE LAMPS AND BATTERIES IN EMERGENCY FIXTURES. TEST BALLAST BEFORE REINSTALLATION TO ENSURE BALLAST OPERATION. EXTEND DUCTWORK AS REQUIRED. WHERE DEVICE IS A POWER RECEPTACLE, EXISTING CIRCUITING SHALL BE INTERCEPTED AND EXTENDED TO NEW TAMPER RESISTANT DEVICE INSTALLED IN NEW ROUGH-IN AND STUB-OUT.

Q. COORDINATE SALVAGE OF EXISTING EQUIPMENT WITH OWNER PRIOR TO DEMO. UNLESS REQESTED BY OWNER AFTER THIS MEETING, DISPOSE OF.

R. EXISTING CABLING SUPPORT PATHWAYS TO BE COMPLETELY REMOVED AT END OF PROJECT. WHERE TRAY IS REMOVED BEFORE ALL CABLING IS DEMOLISHED, CONTRACTOR SHALL SUPPORT EXISTING CABLING. MODIFY EXISTING PATHWAYS AS REQUIRED FOR NEW WORK OF ALL NEW TRADES.

S. EXISTING FIRE ALARM AND LOW VOLTAGE SYSTEMS AND CABLING TO REMAIN ONLINE UNTIL SYSTEMS ARE COMPLETELY REPLACED. REWORK EXISTING HEAD ENDS, CABLING, ETC. AS REQUIRED.

KEYNOTES:

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studio

BG MOVING FORWARD

100% DESIGN DEVELOPMENT

PARTIAL FIRST FLOOR PLAN – AREA A– ELECTRICAL DEMOLITION

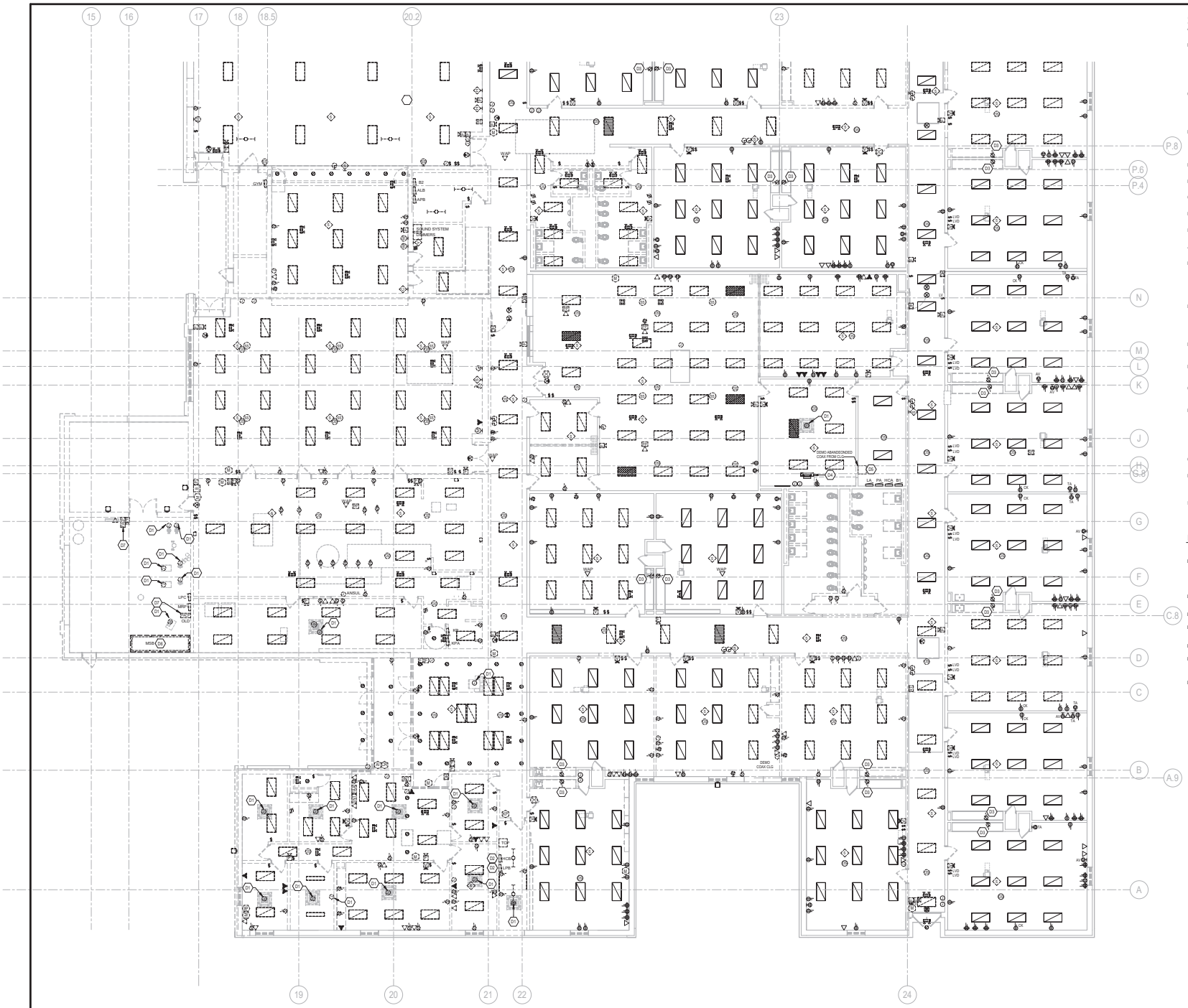
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022–35

E2.1A



1 PARTIAL FIRST FLOOR PLAN - AREA B - ELECTRICAL DEMOLITION

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

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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 (U.O.N.). 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. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW 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. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.

M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.

N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

O. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.

P. 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, DUCTWORK, PIPING, ETC TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. REPLACE LAMPS AND BATTERIES IN EMERGENCY FIXTURES. TEST BALLAST BEFORE REINSTALLATION TO ENSURE BALLAST OPERATION. EXTEND DUCTWORK AS REQUIRED. WHERE DEVICE IS A POWER RECEPTACLE, EXISTING CIRCUITING SHALL BE INTERCEPTED AND EXTENDED TO NEW TAMPER RESISTANT DEVICE INSTALLED IN NEW ROUGH-IN AND STUB-OUT.

Q. COORDINATE SALVAGE OF EXISTING EQUIPMENT WITH OWNER PRIOR TO DEMO. UNLESS REQESTED BY OWNER AFTER THIS MEETING, DISPOSE OF.

R. EXISTING CABLING SUPPORT PATHWAYS TO BE COMPLETELY REMOVED AT END OF PROJECT. WHERE TRAY IS REMOVED BEFORE ALL CABLING IS DEMOLISHED, CONTRACTOR SHALL SUPPPORT EXISTING CABLING. MODIFY EXISTING PATHWAYS AS REQUIRED FOR NEW WORK OF ALL NEW TRADES.

S. EXISTING FIRE ALARM AND LOW VOLTAGE SYSTEMS AND CABLING TO REMAIN ONLINE UNTIL SYSTEMS ARE COMPLETELY REPLACED. REWORK EXISTING HEAD ENDS, CABLING, ETC. AS REQUIRED.

KEYNOTES:

D1 EXISTING MECHANICAL EQUIPMENT AND ALL ASSOCIATED DEVICES, CONDUIT, FEEDERS, DISCONNECTING MEANS, ETC. TO BE REMOVED COMPLETELY BACK TO SOURCE AS INDICATED. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR (TYPICAL).

D2 INTERCEPT AND EXTEND EXISTING TO REMAIN CIRCUITS TO NEW PANEL "XXX". PROVIDE NEW BREAKER IN PANEL, AS REQUIRED.

D3 REPLACE EXISTING DUPLEX IN PLACE WITH QUAD.

D4 EXISTING MDF AND HORIZONTAL CABLING TO REMAIN AND BE PROTECTED.

D5 EXISTING CATV HEAD END TO BE REMOVED.

D6 EXISTING SWITCHBOARD FEEDS TO REMAIN TO BE INTERCEPTED AND EXTENDED TO NEW SWITCHBOARD LOCATION. UNDERGROUND FEEDERS TO BE REPLACED OVERHEAD.

D7 EXISTING FIRE ALARM SYSTEM, CONDUIT, CABLING REMOVED COMPLETELY BACK TO SCHEDULE.

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MOVING FORWARD

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PARTIAL FIRST FLOOR PLAN - AREA B - ELECTRICAL DEMOLITION

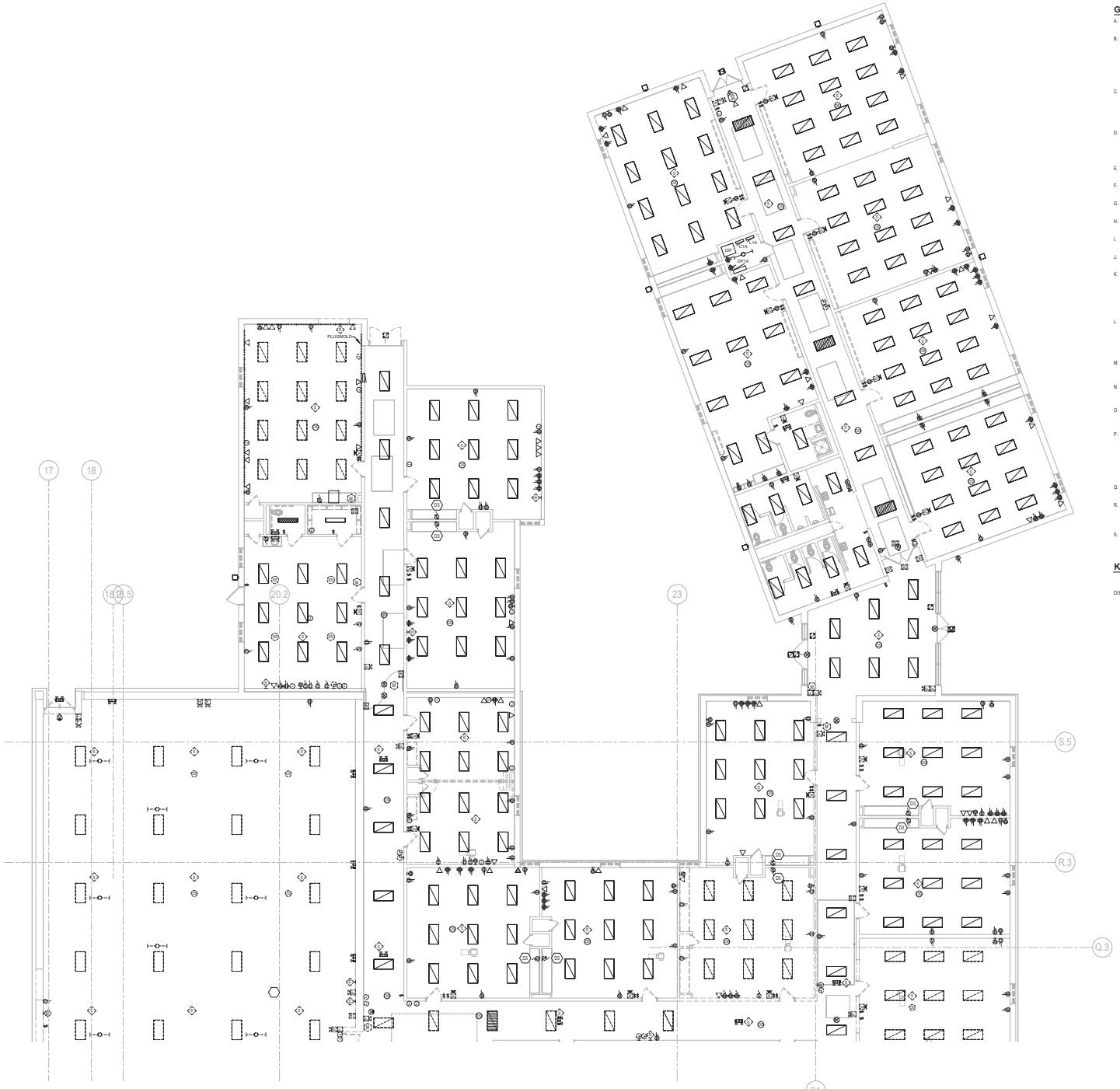
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E2.1B



1 PARTIAL FIRST FLOOR PLAN - AREA C - ELECTRICAL DEMOLITION

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

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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 (U.O.N.). 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. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW 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. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.

M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.

N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

O. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.

P. 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, DUCTWORK, PIPING, ETC TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINARES. REPLACE LAMPS AND BATTERIES IN EMERGENCY FIXTURES. TEST BALLAST BEFORE REINSTALLATION TO ENSURE BALLAST OPERATION. EXTEND DUCTWORK AS REQUIRED. WHERE DEVICE IS A POWER RECEPTACLE, EXISTING CIRCUITING SHALL BE INTERCEPTED AND EXTENDED TO NEW TAMPER RESISTANT DEVICE INSTALLED IN NEW ROUGH-IN AND STUB-OUT.

Q. COORDINATE SALVAGE OF EXISTING EQUIPMENT WITH OWNER PRIOR TO DEMO. UNLESS REQESTED BY OWNER AFTER THIS MEETING, DISPOSE OF.

R. EXISTING CABLING SUPPORT PATHWAYS TO BE COMPLETELY REMOVED AT END OF PROJECT. WHERE TRAY IS REMOVED BEFORE ALL CABLING IS DEMOLISHED, CONTRACTOR SHALL SUPPORT EXISTING CABLING. MODIFY EXISTING PATHWAYS AS REQUIRED FOR NEW WORK OF ALL NEW TRADES.

S. EXISTING FIRE ALARM AND LOW VOLTAGE SYSTEMS AND CABLING TO REMAIN ONLINE UNTIL SYSTEMS ARE COMPLETELY REPLACED. REWORK EXISTING HEAD ENDS, CABLING, ETC. AS REQUIRED.

KEYNOTES:

D3 REPLACE EXISTING DUPLEX IN PLACE WITH QUAD.

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PARTIAL FIRST FLOOR PLAN – AREA C – ELECTRICAL DEMOLITION

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E2.1C

1 ROOF PLAN - DEMOLITION

SCALE: 1/16" = 1'-0"

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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.

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KEYNOTES:

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PARTIAL ROOF PLAN – DEMOLITION

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E2.2

1 FIRST FLOOR LIGHTING PLAN - AREA A

NO SCALE

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 AREAS 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. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. 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.

H. 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.

I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

J. LIGHTING CONTROL POWER PACKS/RELAYS, ETC ARE TO BE LOCATED CONCEALED ABOVE ACCESSIBLE CEILINGS. IN EXPOSED AREAS, LOCATE AT THE NEAREST CONCEALED ACESSIBLE CEILING AREA.

K. PROVIDE NORMAL POWER (CONTROLLED AND UNCONTROLLED) FROM ASOCIATED NORMAL POWER FIXTURE TO EMERGENCY RELAY. WHERE EMERGENCY FIXTURE IS IN SAME ZONE. INSTALL COMPLETE WHETHER CIRCUTING OR EMERGENCY RELAY IS INDICATED OR NOT.

KEYNOTES:

L1 NEW DAYLIGHT DIMMING ZONE (0-10V). LIGHTING SHALL BE CONTROLLED FROM ROOM ZONE SWITCHING AS WELL AS 0-10V DAYLIGHT DIMMING DEVICE. EMERGENCY RELAY/TRANSFER DEVICE SHALL BE COMPATIBLE WITH DIMMING 0-10V CONTROLS TO PROVIDE FULL OUTPUT UPON LOSS OF NORMAL POWER. REFER TO DETAIL FOR REQUIREMENTS.

L2 PROVIDE STEM MOUNTED DAYLIGHT SENSOR AT TOP OF WINDOWS.

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LIGHTING PLAN – AREA A

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E3.1A

GENERAL NOTES (LIGHTING):

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1 FIRST FLOOR LIGHTING PLAN - AREA B

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

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MCKINNEY FORWARD

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LIGHTING PLAN – AREA B

Bullitt East High School – Fine Arts Addition
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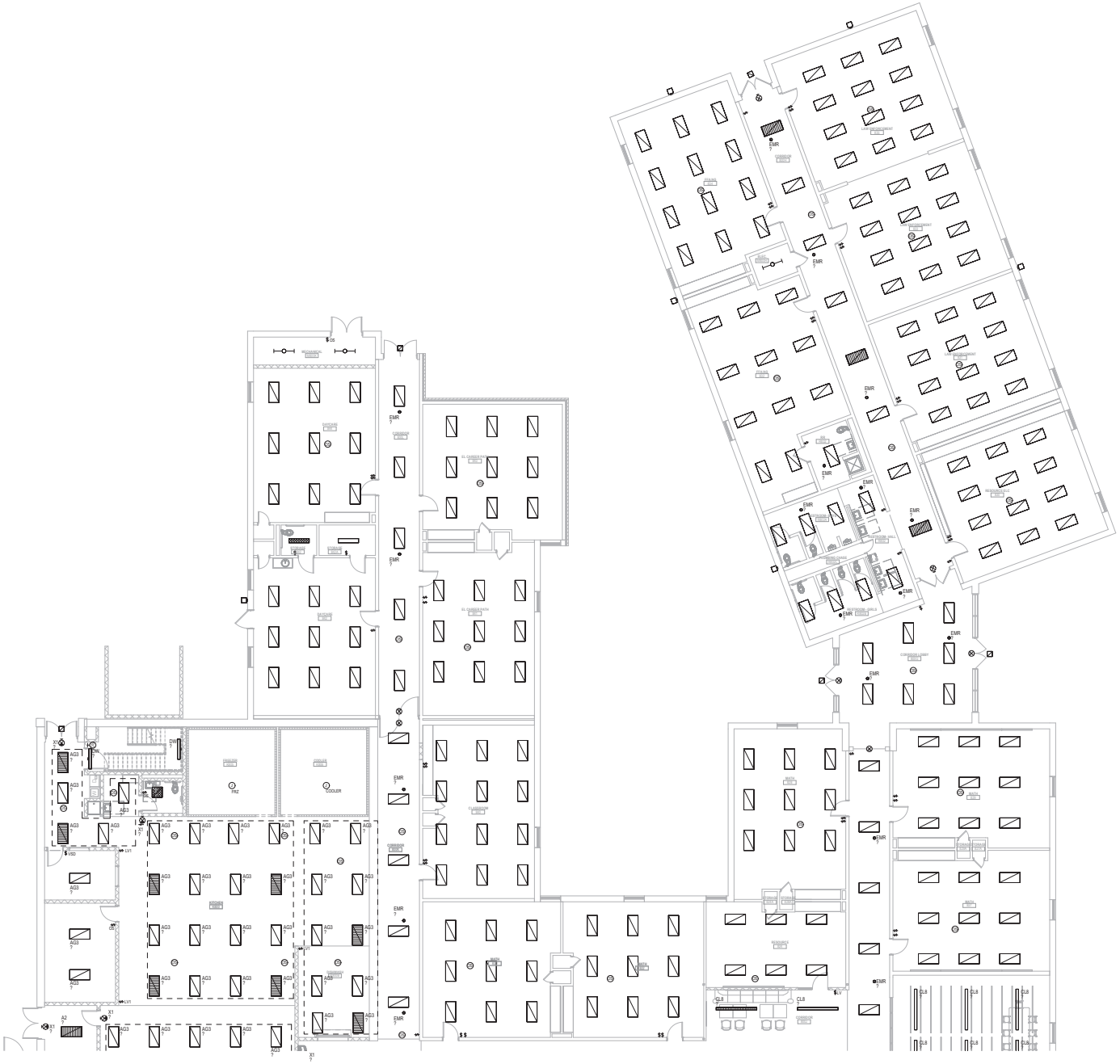
E3.1B



1 FIRST FLOOR LIGHTING PLAN - AREA C1

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

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. 9300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C 9100 / 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. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

G. 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.

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KEYNOTES:

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BG+ MOVING FORWARD

100% DESIGN DEVELOPMENT

LIGHTING PLAN - AREA C1

Bullitt East High School - Fine Arts Addition

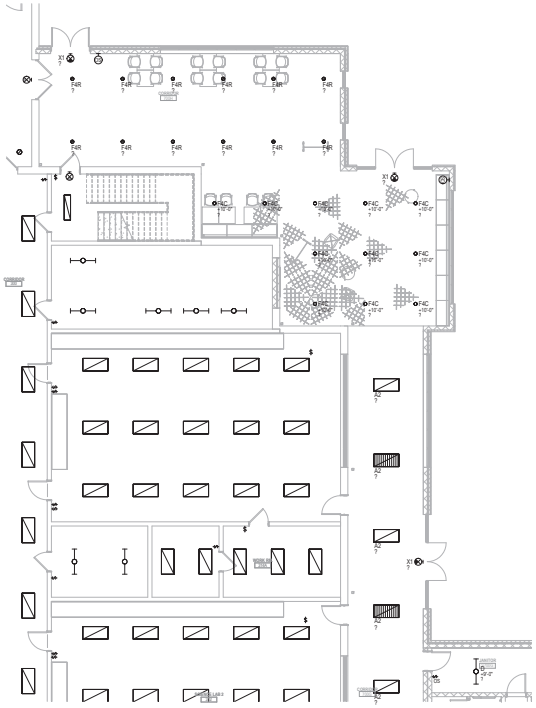
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

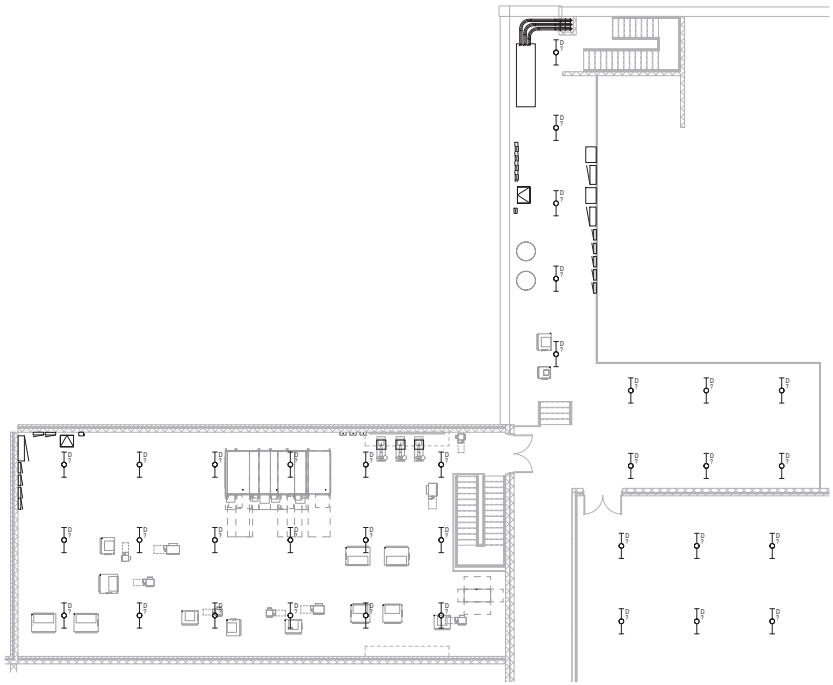
2022-35

E3.1C1



1 FIRST FLOOR LIGHTING PLAN - AREA C2

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



2 ENLARGED UTILITY PLATFORM - LIGHTING

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

GENERAL NOTES (LIGHTING):

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KEYNOTES:

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studio

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

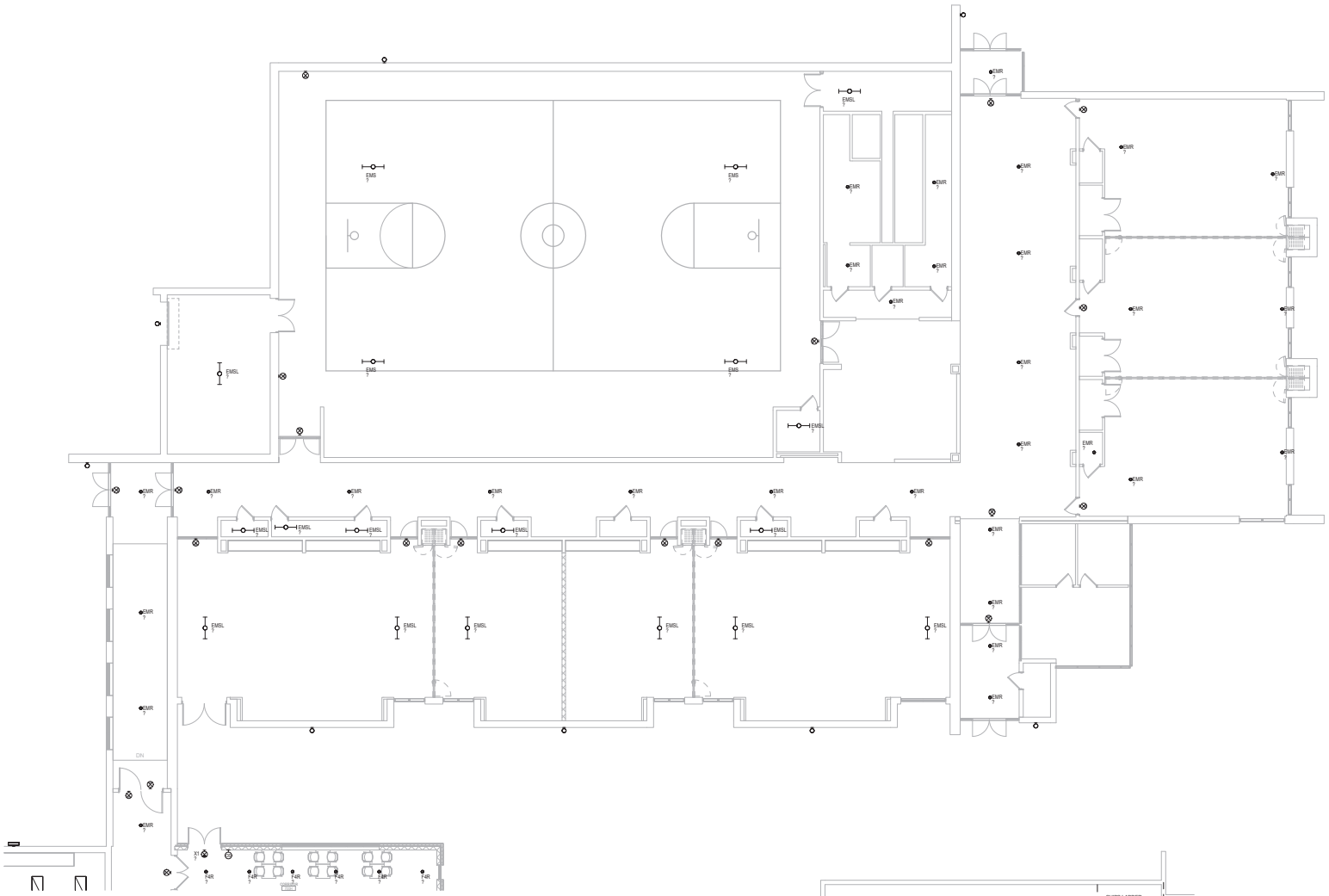
2022-35

100% DESIGN DEVELOPMENT

LIGHTING PLAN - AREA C2

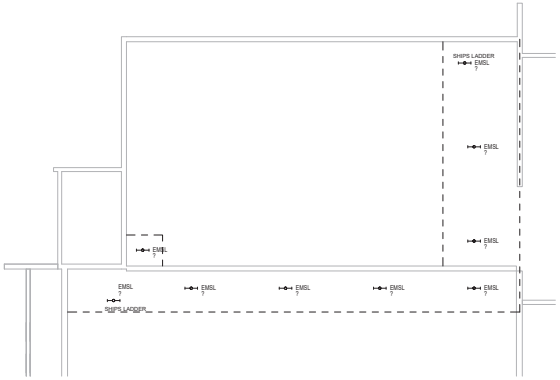
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

E3.1C2



1 FIRST FLOOR LIGHTING PLAN - AREA A

NO SCALE



2 LEVEL 2 FLOOR PLAN - LIGHTING

NO SCALE

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KEYNOTES:

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1231 E Payne St, Louisville, KY 40203
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studio

MCNAMEE PORTER&SEED

100% DESIGN DEVELOPMENT

LIGHTING PLAN – AREA D

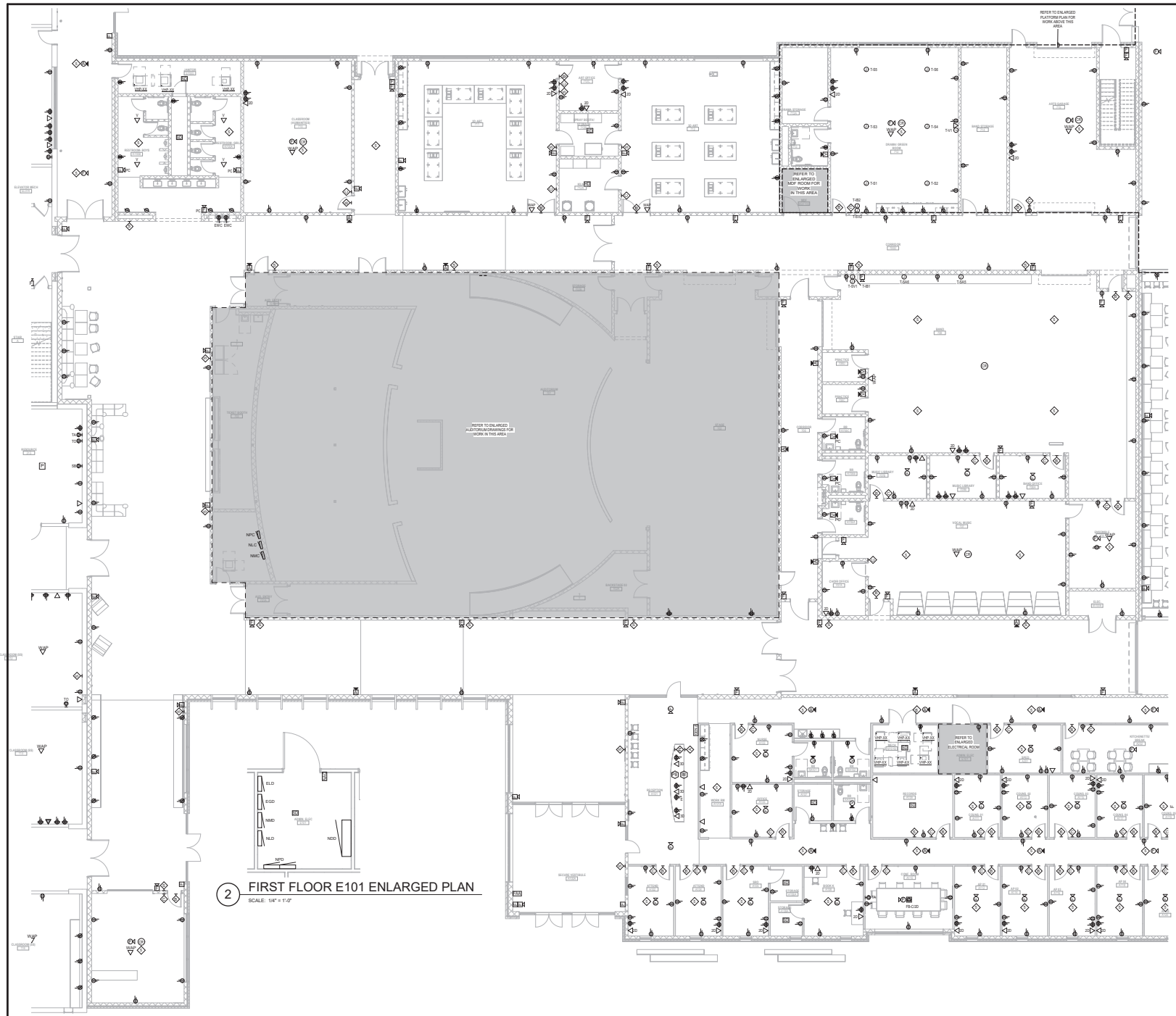
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : RJH
REVISIONS :

2022-35

E3.1D



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G. 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.

H. 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.

I. CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT. CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

J. DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

K. ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:

2 FIRST FLOOR E101 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

1 FIRST FLOOR POWER/SYSTEMS PLAN - AREA A
SCALE: 1/8" = 1'-0"

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studio

BG MOVING FORWARD

POWER/SYSTEMS PLAN - AREA A

Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

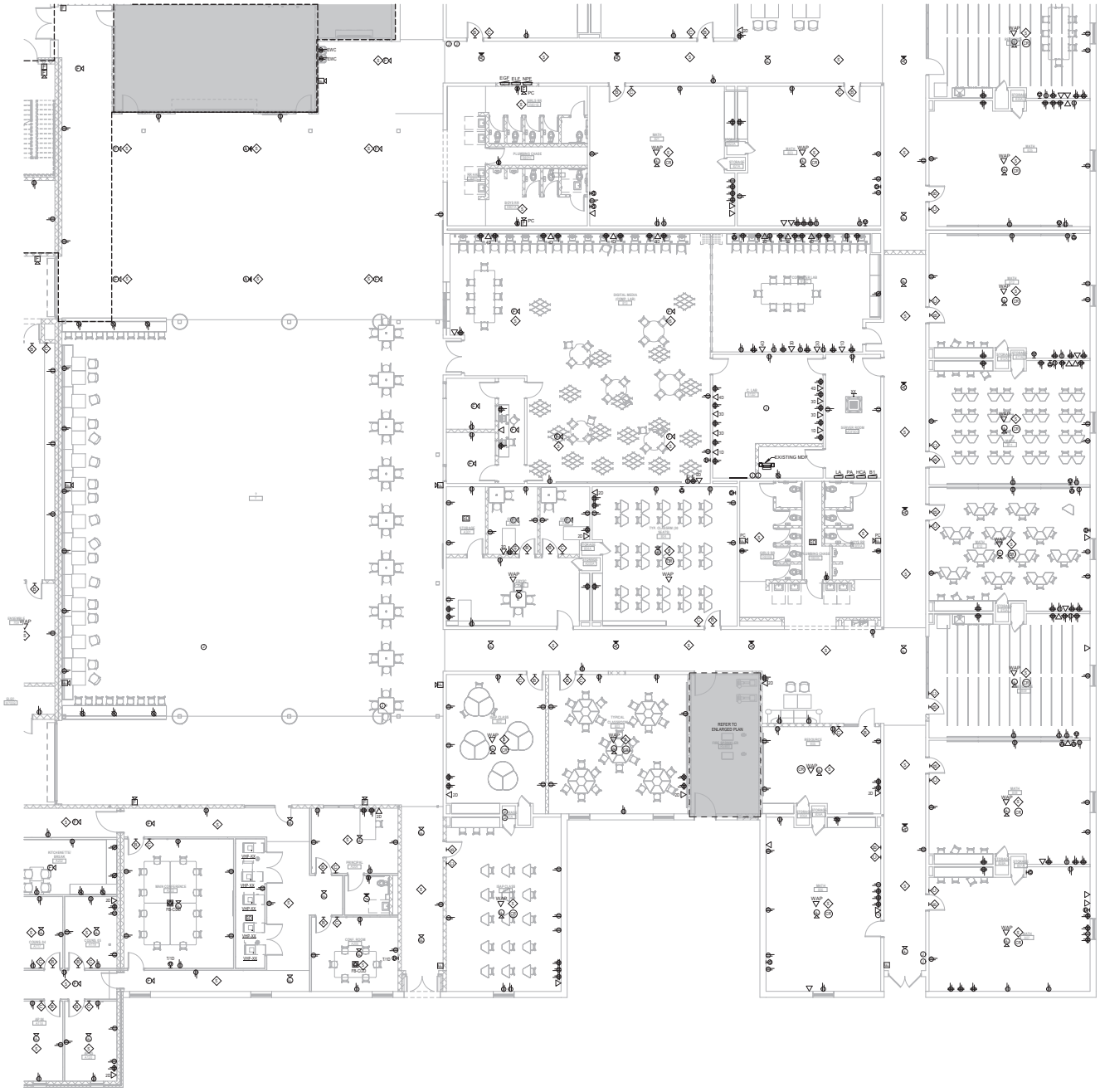
100% DESIGN DEVELOPMENT

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E4.1A


EWC
EGF ELE NPE
PC
DIGITAL MEDIA CREATE LAB
DIGITAL MEDIA CONTENT LAB
CLASS
EXISTING MDF
TV
TV
TV

1 FIRST FLOOR POWER/SYSTEMS PLAN - AREA 1C

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

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KEYNOTES:

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studio

BG MOVING FORWARD

100% DESIGN DEVELOPMENT

POWER/SYSTEMS PLAN – AREA C1

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
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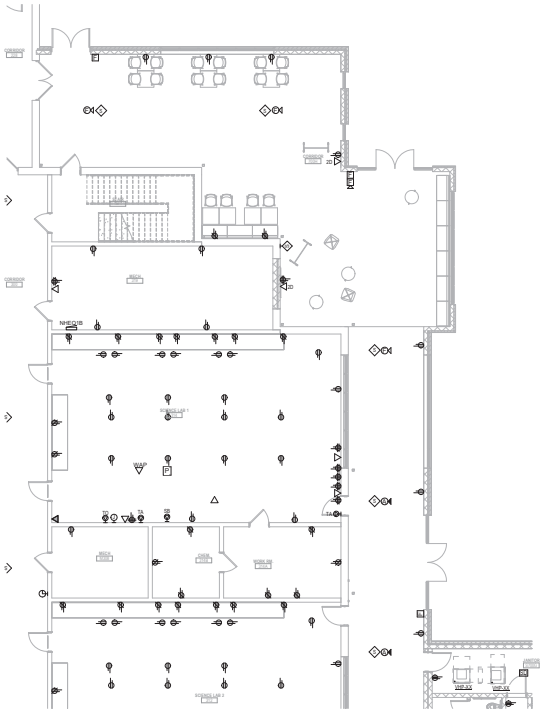
REVISIONS :

2022-35

E4.1C1



1 FIRST FLOOOR POWER/SYSTEMS PLAN - AREA C2

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G. 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.

H. 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.

I. CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT. CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

J. DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

K. ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:

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BG MOVING FORWARD

100% DESIGN DEVELOPMENT

POWER/SYSTEMS PLAN – AREA C2

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E4.1C2

GENERAL NOTES (ROOF):

A. REFER TO POWER, SYSTEMS, AND LIGHTING PLANS FOR GENERAL NOTES APPLICABLE TO INTERIOR SPACES SHOWN ON THIS PLAN.

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 310.15B(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 ENGRAVED LAMACOID LABLES FOR ALL EXTERIOR DEVICES. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. PROVIDE UNI-STRUT AS REQUIRED FOR MOUNTING OF ALL DEVICES ON ROOF. COORDINATE WITH ROOFING CONTRACTOR PRIOR TO CONSTRUCTION FOR ALL PENETRATIONS. SEAL PENETRATIONS AS REQUIRED PER ROOFING CONTRACTOR AND ROOFING MANUFACTURER'S RECOMMENDATIONS AS REQUIRED TO MAINTAIN ROOF WARRANTY. PROVIDE CURBS AND/OR FLASHED BOOTS AT ALL DEVICES AND PENETRATIONS.

E. CONDUITS SHALL PENETRATE ROOF FROM BELOW AS CLOSE TO FINAL ROOF EQUIPMENT TERMINATION POINT AS POSSIBLE. SUPPORT ALL ROOF MOUNTED CONDUITS AT INTERVALS NOT EXCEEDING 10 FEET WITH STRUT-BASED SUPPORT SYSTEM. SUPPORT SYSTEM TO BE CADDY PYRAMID ST SERIES OR APPROVED EQUAL.

F. ALL CONDUIT EXPOSED TO DIRECT SUNLIGHT SHALL BE AT LEAST 12" ABOVE THE ROOF-TOP. NO CONDUIT SHALL BE EXPOSED TO DIRECT SUNLIGHT BELOW THIS HEIGHT.

G. WHERE RACEWAY OR CONDUCTORS ARE INSTALLED EXPOSED ON ROOF, DERATE AMPACITY OF CONDUCTORS IN ACCORDANCE WITH NEC.

H. 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.

I. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FT OF EACH MECHANICAL UNIT AS REQUIRED BY NEC. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.

J. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED IN CEILING SPACE BELOW ROOF DECK UNO.

KEYNOTES:

1 ROOF PLAN - ELECTRICAL

SCALE: 1" = 20'-0"

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PARTIAL ROOF PLAN – ELECTRICAL

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E4.2

GENERAL NOTES (POWER/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.

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.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. 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.

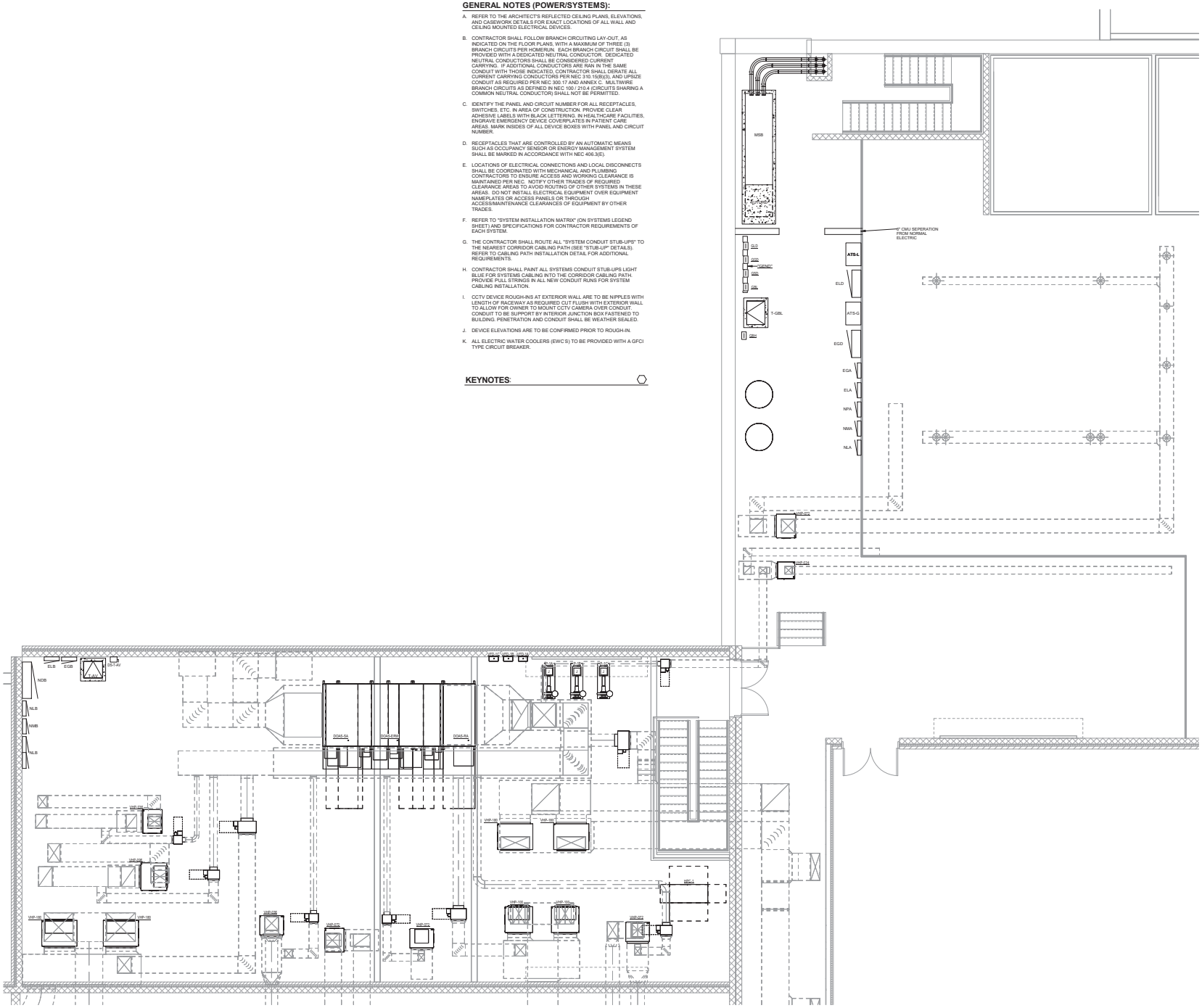
H. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

I. CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT. CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

J. DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

K. ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:


MSB
6" CMU SEPERATION FROM NORMAL ELECTRIC
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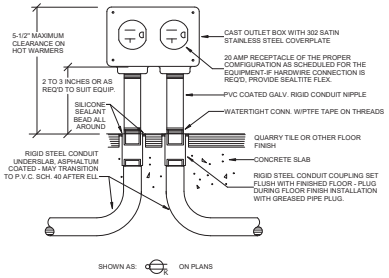
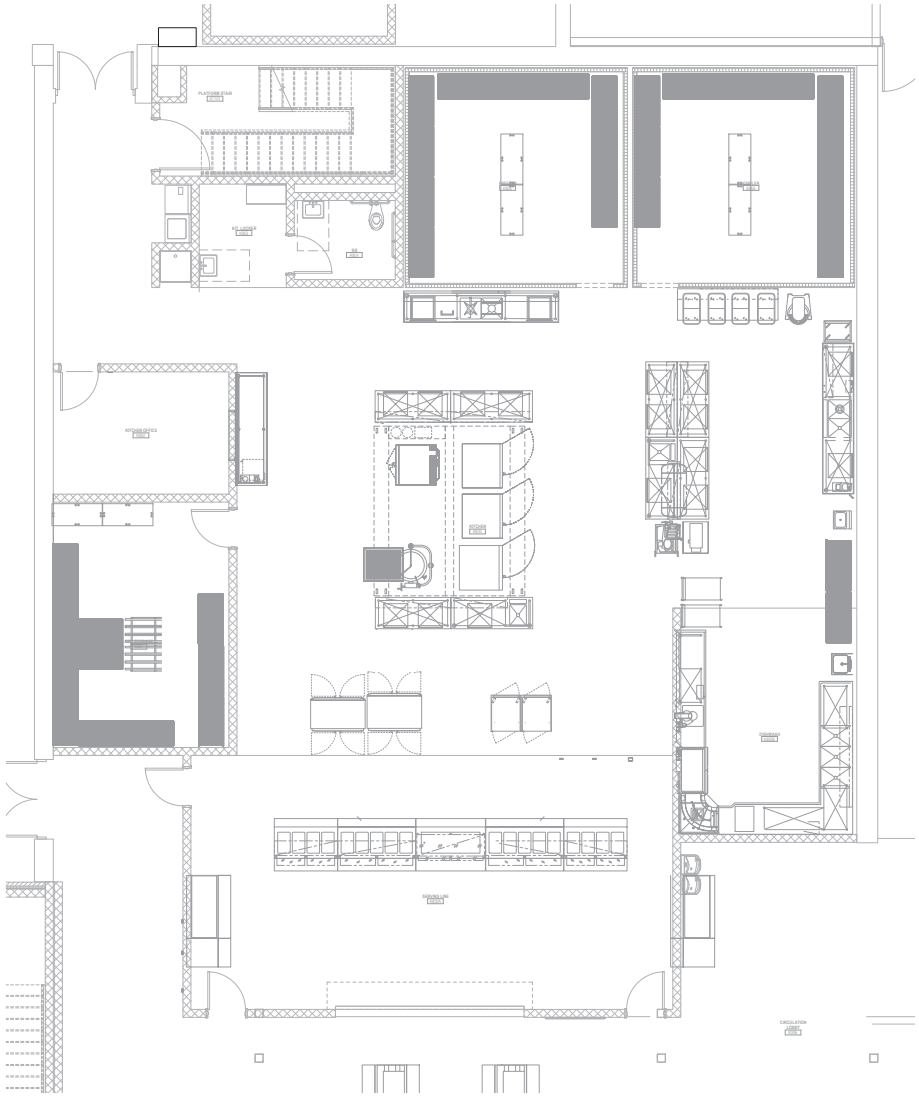


2 KITCHEN OUTLET STUB-UP DETAIL

NO SCALE



1 LEVEL 1 FLOOR PLAN - ENLARGED KITCHEN

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

GENERAL NOTES (KITCHEN):

A. PROVIDE PERMANENT BREAKER LOCK-OUT PROVISIONS FOR ALL CIRCUITS IN PANELS FOR BREAKERS THAT SERVE HARD-WIRED KITCHEN EQUIPMENT CONNECTIONS.

B. KITCHEN PLANS ARE BASED UPON COORDINATION WITH THE KITCHEN DESIGN CONSULTANT'S DRAWINGS. ALL ROUGH-INS AND FINAL CONNECTIONS SHALL BE VERIFIED WITH KITCHEN EQUIPMENT SHOP DRAWINGS AND ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO CONSTRUCTION.

C. FOR ALL CIRCUITS SERVING RECEPTACLES AND EQUIPMENT IN KITCHEN AND SERVING AREAS (ALL AREAS ON THIS SHEET), PROVIDE "GFCI" TYPE CIRCUIT BREAKERS FOR THOSE CIRCUITS CONSISTING OF: SINGLE PHASE RECEPTACLES WITH NOMINAL (L-G) VOLTAGES OF 150 VOLTS OR LESS, 50 AMPS OR LESS AND THREE PHASE RECEPTACLES WITH NOMINAL (L-G) VOLTAGES OF 150 VOLTS OR LESS, 100 AMPS OR LESS. FOR ALL RECEPTACLES THAT ARE CONNECTED TO "GFCI" CIRCUIT BREAKERS, PROVIDE PERMANENT LABELS ON THE RECEPTACLE COVERPLATE INDICATING "GFCI" PROTECTED CIRCUIT".

D. PROVIDE #302 STAINLESS STEEL COVERPLATES ON ALL OUTLETS LOCATED ON A WALL WITH STAINLESS STEEL COVERINGS. VERIFY LOCATIONS OF THESE STAINLESS STEEL WALLS WITH THE KITCHEN VENDOR DRAWINGS / SHOP DRAWINGS.

E. REFER TO KITCHEN ELECTRICAL CONNECTIONS SCHEDULES FOR MOUNTING HEIGHTS OF RECEPTACLES AND JUNCTION BOXES.

F. VERIFY EXACT OUTLET NEMA CONFIGURATIONS WITH EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION.

KEYNOTES:

ELEC - FOOD SERVICE EQUIPMENT SCHEDULE

EQUIP ID	DESCRIPTION	CONNECTION TYPE	MOUNTING HEIGHT	VOLTAGE	POLES	EQUIPMENT RATING			EMERGENCY POWER	REMARKS
						HP	AMP	POWER (kVA)		

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ENLARGED KITCHEN - ELECTRICAL

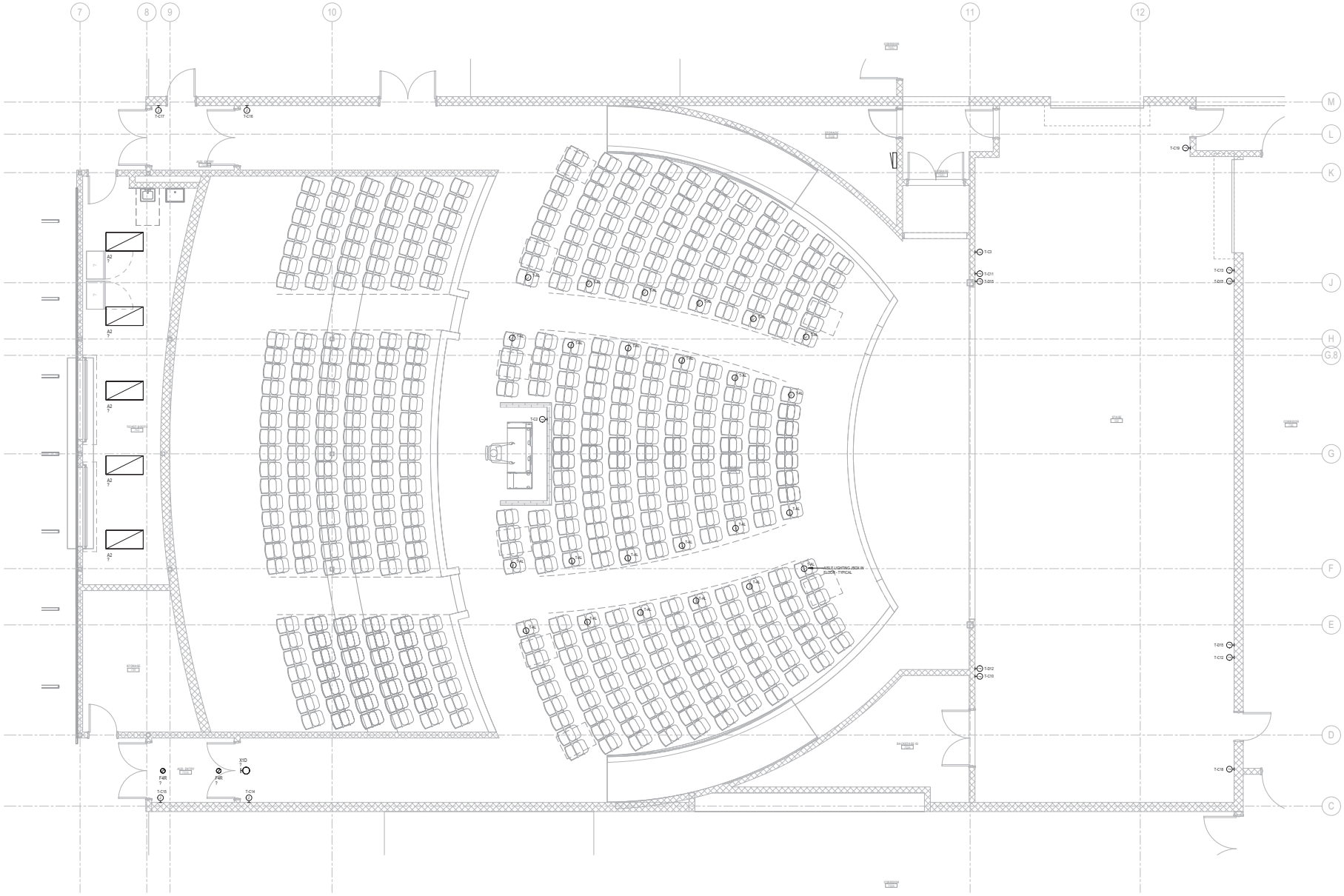
Bullitt East High School - Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

E5.2



1 ENLARGED AUDITORIUM - LIGHTING

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

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ENLARGED AUDITORIUM - LIGHTING

Bullitt East High School - Fine Arts Addition

11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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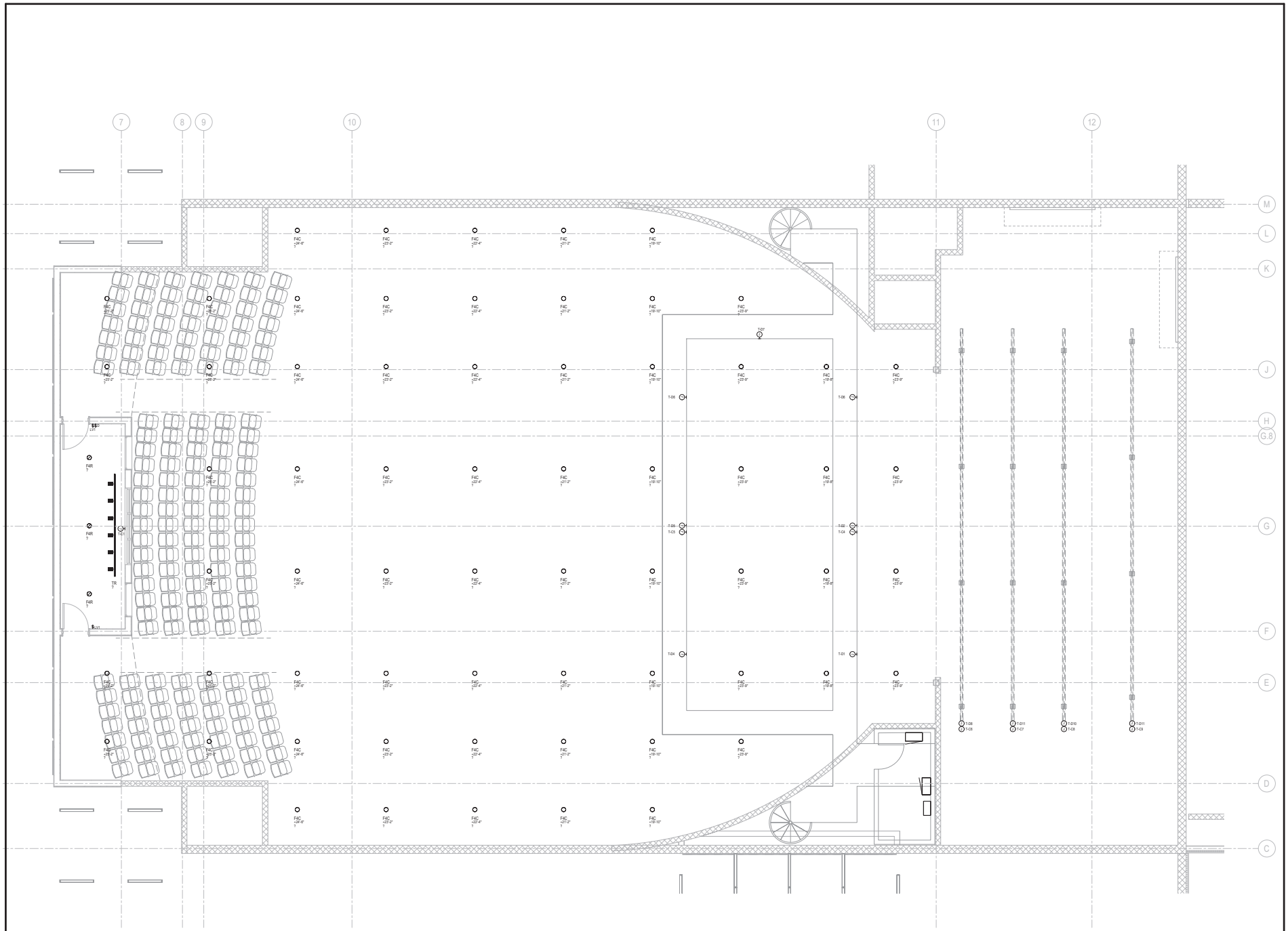
REVISIONS :

2022-35

E5.3L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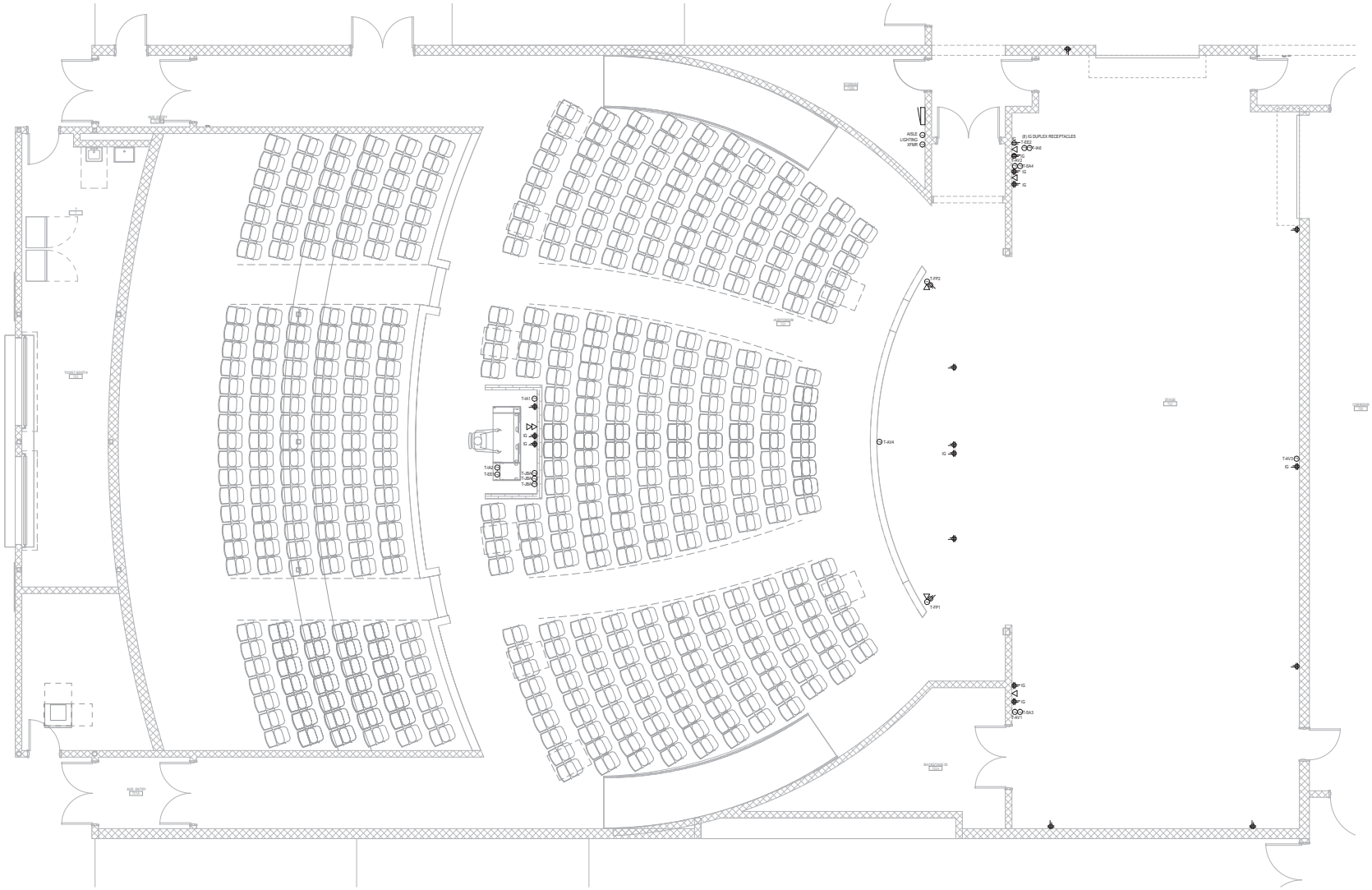

1 ENLARGED AUDITORIUM - POWER

NO SCALE

100% DESIGN DEVELOPMENT

ENLARGED AUDITORIUM - POWER

Bullitt East High School - Fine Arts Addition

11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : RJH
REVISIONS :

2022-35

E5.4L

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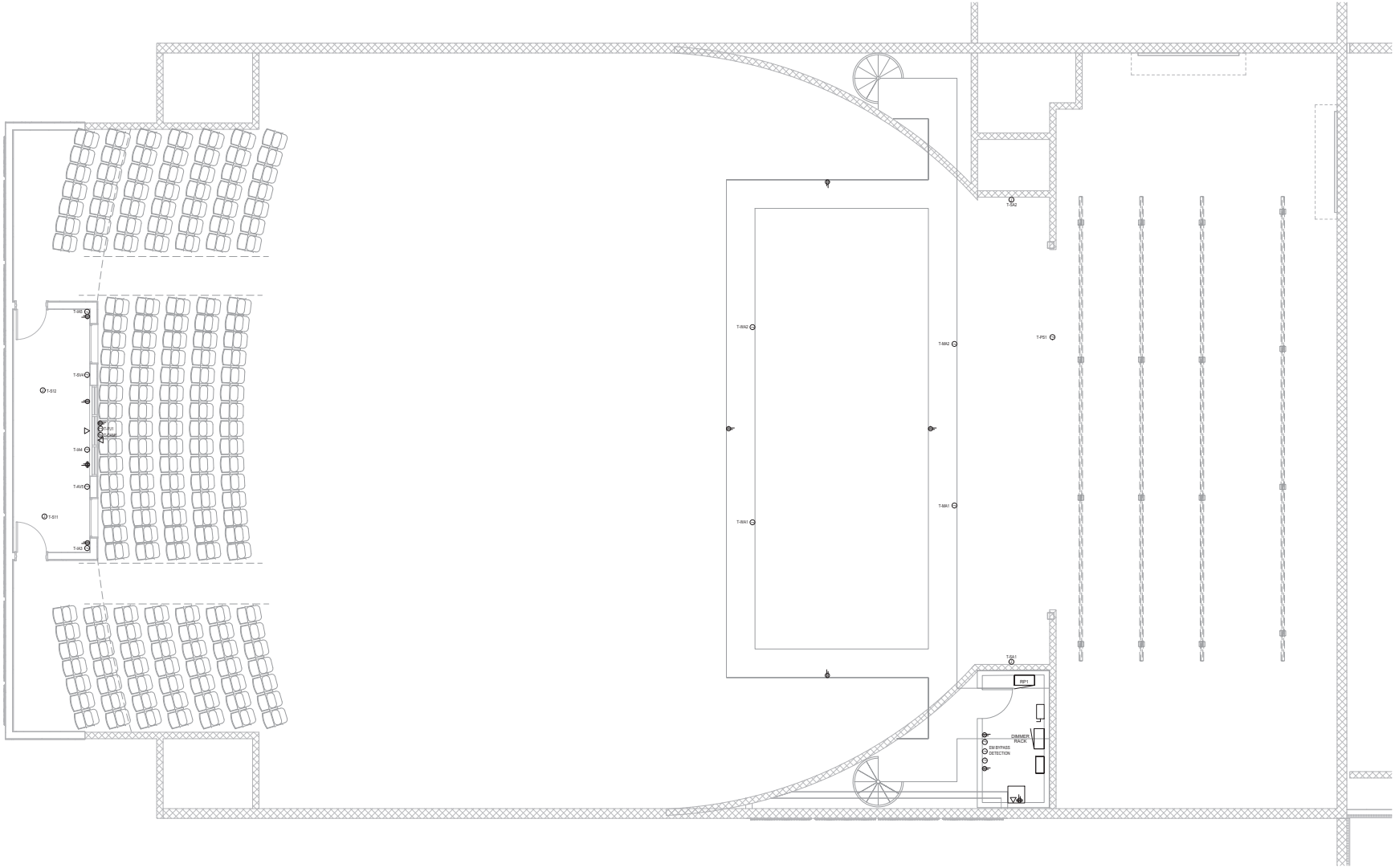
MOWRAS PORRMANN



1 ENLARGED UPPER LEVEL AUDITORIUM - POWER

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

100% DESIGN DEVELOPMENT

ENLARGED UPPER LEVEL AUDITORIUM - POWER

Bullitt East High School - Fine Arts Addition

11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : RJH
REVISIONS :

2022-35

E5.4U

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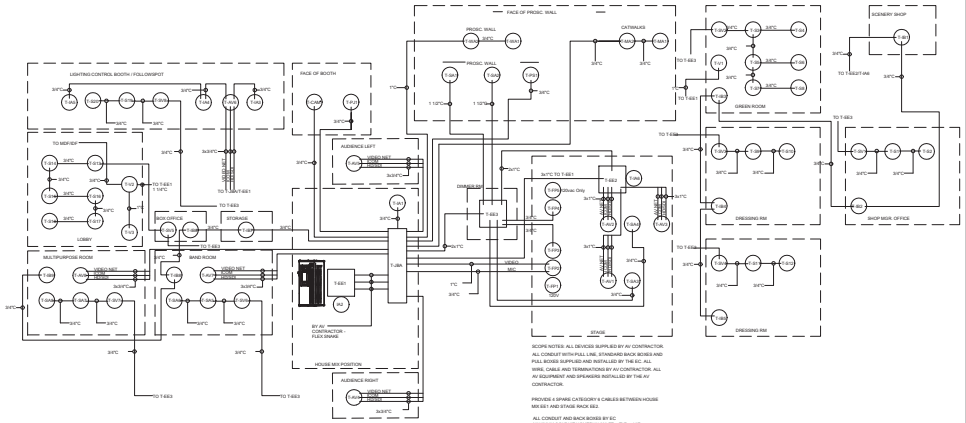
MOWRAS PORRMANN

AV DEVICE/BACKBOX SCHEDULE

DEVICE #	DESCRIPTION	LOCATION	(HXWXD)	BACK BOX PROVIDED BY	INSTALLED BY	MTD. HGT	CONDUIT	"CONDUIT PROVIDED BY"	SIGNAL WIRE FILL	"WIRE PROVIDED BY"
T-AV1	AV Network Receptacle Panel - Flush	Stage Lee Proscenium Wall	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-AV2	AV Network Receptacle Panel - Flush	Stage Right Proscenium Wall	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-AV3	AV Network Receptacle Panel - Flush	Stage - Upstage Rear Wall	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-AV4	AV Network Receptacle Panel - Flush	Orchestra Pit	4 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-AV5	AV Network Receptacle Panel - Flush	Lighting Control Booth	3 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-CAM1	Camera Receptacle Plate - Flush	Face of Lighting Control Booth	1 Gang	EC	EC	Face of Booth - 7'-0" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-EE1	Audio Equipment Rack	House Mix Position	B&R Cases Deek	None	AV Contractor	Floor Mounted	See Conduit Riser	EC	By AV Contractor	AV
T-EE2	Audio Equipment Rack	Stage Right Proscenium Wall	SRW0-28	None	AV Contractor	Floor Mounted	See Conduit Riser	EC	By AV Contractor	AV
T-FP1	AV Receptacle Floor Pocket - Video/Data	Stage Floor	FSR FL-500-F-4-BLK-C	AV Contractor	EC	Flush Floor	See Conduit Riser	EC	By AV Contractor	AV
T-FP2	AV Receptacle Floor Pocket - Spkr. Mon.	Stage Floor	FSR FL-500-F-4-BLK-C	AV Contractor	EC	Flush Floor	See Conduit Riser	EC	By AV Contractor	AV
T-IA1	Intercom Receipt. Panel - Flush Mtd.	House Mix Position	1 Gang	EC	EC	24" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-IA2	Intercom Master Station	House Mix Position - EQ Rack EE1	None	None	AV Contractor	Rack Mounted EE 1	See Conduit Riser	EC	By AV Contractor	AV
T-IA3	Intercom Receipt. Panel - Flush Mtd.	Lighting Control Booth	1 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-IA4	Intercom Receipt. Panel - Flush Mtd.	Lighting Control Booth	1 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-IA5	Intercom Receipt. Panel - Flush Mtd.	Lighting Control Booth	1 Gang	EC	EC	18" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-IA6	Intercom Remote Station	Stage Rack - EQ Rack EE2	None	None	AV Contractor	Rack Mounted EE2	See Conduit Riser	EC	By AV Contractor	AV
T-IS1	Intercom Speaker Station - Flush Mtd.	Band Room	4 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-IS2	Intercom Speaker Station - Flush Mtd.	Green Room	4 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-IS3	Intercom Speaker Station - Flush Mtd.	Concessions	4 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-JBA	Junction Boxes with Conduit KO's	House Mix Position	(3x) 12"x 12"x 6"	EC	EC	12" AFF to Center	See Conduit Riser	EC	By AV Contractor	AV
T-MA1	Microphone Receipt. Panel - Pipe Mtd.	Lighting Catwalk #1	1 Gang	EC	EC	Pipe Mounted 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-MA2	Microphone Receipt. Panel - Pipe Mtd.	Lighting Catwalk #2	1 Gang	EC	EC	Pipe Mounted 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-PJ1	Projector Junction Box - Flush Wall	Lighting Control Booth Ceiling	1 Gang	EC	EC	Ceiling	See Conduit Riser	EC	By AV Contractor	AV
T-PS1	Projection Screen - Surface Proac. Wall	Recessed Proscenium Soffit	1 Gang	EC	EC	Flus h Proscenui m Soffit	See Conduit Riser	EC	By AV Contractor	AV
T-SA1	Speaker Receipt. Panel - Flush Mtd.	Proscenium Wall - Audience Side	2 Gang - 3.5" Deep	EC	EC	Flush 24'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
T-SA2	Speaker Receipt. Panel - Flush Mtd.	Pros cenium Wall - Audience Side	2 Gang - 3.5" Deep	EC	EC	Flush 24'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
T-SA3	Speaker Receipt. Panel - Flush Mtd.	Face of Proscenium Wall - Stage Left	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
T-SA4	Speaker Receipt. Panel - Flush Mtd.	Face of Proscenium Wall - Stage Right	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
T-SA5	Speaker Receipt. Panel - Flush Mtd.	Band Room	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
T-SA6	Speaker Receipt. Panel - Flush Mtd.	Band Room	1 Gang	EC	EC	Flush 10'-0" AFF Stage	See Conduit Riser	EC	By AV Contractor	AV
T-SV1	Volume Control - Flush Mtd.	Band Room	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-SV2	Volume Control - Flush Mtd.	Green	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-SV3	Volume Control - Flush Mtd.	Concessions	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-SV4	Volume Control - Flush Mtd.	Control Booth	2 Gang	EC	EC	48" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-S1 THRU T-S6	Recessed Speaker - Flush Ceiling	Green Room	Integral Back Box	AV Contractor	AV Contractor	Flush Ceiling	See Conduit Riser	EC	By AV Contractor	AV
T-S7 THRU T-S10	Recessed Speaker - Flush Ceiling	Lobby	Integral Back Box	AV Contractor	AV Contractor	Flush Ceiling	See Conduit Riser	EC	By AV Contractor	AV
T-S11 THRU T-S12	Recessed Speaker - Flush Ceiling	Control Booth	Integral Back Box	AV Contractor	AV Contractor	Flush Ceiling	See Conduit Riser	EC	By AV Contractor	AV
T-V1	Video Display - Flush Mtd.	Band Room	FSR-PWB 100	EC	EC	60" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-V2	Video Display - Flush Mtd.	Green Room	FSR-PWB 100	EC	EC	60" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-V3	Video Display - Flush Mtd.	Lobby	FSR-PWB100	EC	EC	60" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-WA1	Wireless Microphone - Flush Mtd.	Lighting Catwalk #2	1 Gang	EC	EC	Pipe Mount 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
T-WA2	Wireless Microphone - Flush Mtd.	Lighting Catwalk #2	1 Gang	EC	EC	Pipe Mount 42" AFF	See Conduit Riser	EC	By AV Contractor	AV
AV = Audio Network Receptacle Panel - Flush FSR Floor Pocket										
IA, IS = Intercom Device MA = Microphone Receipt. Panel PJ = Projector JB										
PS = Projection Screen JB										
SA = Speaker Receptacle Panel SV = Speaker Volume Control										
S = Ceiling Speaker										
TP = Touchpanel Control										
V = Video Display or Input Device WA = Wireless Microphone CAM = Camera Receptacle Plate JBA = Audio Junction Box										
EE = Equipment Enclosure (Rack)										

THEATRICAL LIGHTING DEVICE/BACKBOX SCHEDULE

DEVICE	DESCRIPTION	LOCATION	BOX SIZE	BACK BOX PROVIDED BY	INSTALLED BY	MTD. HGT	CCT. #	CONDUIT	"CONDUIT/ CABLE PROVIDED BY"	WIRE FILL	WIRE PROVIDED BY
T-D1	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	1 thru 4 = ND1	(1) 1"	EC	10 #10+G	EC
T-D2	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	5 thru 8 = ND2	(1) 1"	EC	10 #10+G	EC
T-D3	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	9 thru 12 = ND3	(1) 1"	EC	10 #10+G	EC
T-D4	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	13 thru 16 = ND4	(1) 1"	EC	10 #10+G	EC
T-D5	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	17 thru 20 = ND5	(1) 1"	EC	10 #10+G	EC
T-D6	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	21 thru 24 = ND6	(1) 1"	EC	10 #10+G	EC
T-D7	Pipe Mtd. Distribution Box	Front of House Lig Catwalk	6"x12"X3"	Specialty Lig	EC	42" Pipe	25 thru 28 _+ ND7	(1) 1"	EC	10 #10+G	EC
T-D8	Rigging Mtd. Raceway 1st E	Stage Rigging Electric 1	6"x50'-0"x4"	Specialty Lig	EC	Rigging	29 thru 40=ND8-ND11=WL1	(5) 1 1/2"	EC	34 #10+G	EC
T-D9	Rigging Mtd. Raceway 2nd	Stage Rigging Electric 2	6"x50'-0"x4"	Specialty Lig	EC	Rigging	41 thru 52=ND12-ND15=WL2	(5) 1 1/2"	EC	34 #10+G	EC
T-D10	Rigging Mtd. Raceway 3rd E	Stage Rigging Electric 3	6"x50'-0"x4"	Specialty Lig	EC	Rigging	53 thru 64=ND16-ND19=WL3	(5) 1 1/2"	EC	34 #10+G	EC
T-D11	Rigging Mtd. Raceway 4th E	Stage Rigging Electric 4	6"x50'-0"x4"	Specialty Lig	EC	Rigging	65 thru 72=ND20-ND23=WL4	(5) 1 1/2"	EC	34 #10+G	EC
T-D12	Surface Mtd. Distribution Box	Downstage Left Pross. Wall	6"x12"X3"	Specialty Lig	EC	24" AFF	73 thru 76 = ND35	(1) 1"	EC	10 #10+G	EC
T-D13	Surface Mtd. Distribution Box	Downstage Rgt Pross. Wall	6"x12"X3"	Specialty Lig	EC	24" AFF	77 thru 80 + ND36	(1) 1"	EC	10 #10+G	EC
T-D14	Surface Mtd. Distribution Box	Upstage Left Rear Wall	6"x12"X3"	Specialty Lig	EC	24" AFF	81 thru 84 + ND30	(1) 1"	EC	10 #10+G	EC
T-D15	Surface Mtd. Distribution Box	Upstage Rgt Rear Wall	6"x12"X3"	Specialty Lig	EC	24" AFF	85 thru 88 + ND31	(1) 1"	EC	10 #10+G	EC
T-D16A	Surface Mtd. Junction Box	Orchestra Shell Ceiling 1	1 Gang	Specialty Lig	EC	Rigging	Dimmer 89	(1) 3/4"	EC	2 #10+G	EC
T-D16B	Surface Mtd. Distribution Box	Orchestra Shell Ceiling 1	1 Gang	Specialty Lig	EC	Rigging	Dimmer 89			Type SO Multicable 32'	Specialty
T-D17A	Surface Mtd. Junction Box	Orchestra Shell Ceiling 2	1 Gang	Specialty Lig	EC	Rigging	Dimmer 90	(1) 3/4"	EC	2 #10+G	EC
T-D17B	Surface Mtd. Distribution Box	Orchestra Shell Ceiling 2	1 Gang	Specialty Lig	EC	Rigging	Dimmer 90			Type SO Multicable 32'	Specialty
T-D18A	Surface Mtd. Junction Box	Orchestra Shell Ceiling 3	1 Gang	Specialty Lig	EC	Rigging	Dimmer 91	(1) 3/4"	EC	2 #10+G	EC
T-D18B	Surface Mtd. Distribution Box	Orchestra Shell Ceiling 3	1 Gang	Specialty Lig	EC	Rigging	Dimmer 91			Type SO Multicable 32'	Specialty
T-C1	Flush Mtd. Control Receipt.	Control Booth	2 Gang	EC	EC	18" AFF	Net x2 = HL Net x1	(1) 1"	EC	(3) Belden 1583A	EC
T-C2	Flush Mtd. Control Receipt.	House Mix Position	2 Gang	EC	EC	18" AFF	Net x2 = HL Net x1	(1) 1"	EC	(3) Belden 1583A	EC
T-C3	Rack Mtd. Touch Panel	Stage AV Rack	Rack Plate	Specialty Lig	Specialty	Rack	Touchpanel Control	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C4	Pipe Mtd. 2-Port Gateway	Catwalk	Integral Box	Specialty Lig	EC	42" Pipe	2-Port DMX Gateway	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C5	Pipe Mtd. 2-Port Gateway	Catwalk	Integral Box	Specialty Lig	EC	42" Pipe	2-Port DMX Gateway	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C6	Raceway Network Receipt.	Stage Rigging Electric 1	6"x50'-0"x4"	Specialty Lig	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C7	Raceway Network Receipt.	Stage Rigging Electric 2	6"x50'-0"x4"	Specialty Lig	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C8	Raceway Network Receipt.	Stage Rigging Electric 3	6"x50'-0"x4"	Specialty Lig	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C9	Raceway Network Receipt.	Stage Rigging Electric 4	6"x50'-0"x4"	Specialty Lig	EC	Rigging	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C10	Flush Mtd. Network Receipt.	Stage Walls - Downstage Left	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C11	Flush Mtd. Network Receipt.	Stage Walls - Downstage Right	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C12	Flush Mtd. Network Receipt.	Stage Walls - Upstage Left	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C13	Flush Mtd. Network Receipt.	Stage Walls - Upstage Right	1 Gang	EC	EC	24" AFF	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C14	Flush Mtd. Entry Station	Auditorium Walls - Entry	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C15	Flush Mtd. Entry Station	Light Lock	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C16	Flush Mtd. Entry Station	Auditorium Walls - Entry	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C17	Flush Mtd. Entry Station	Light Lock	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C18	Flush Mtd. Entry Station	Stage Walls - Upstage Left	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C19	Flush Mtd. Entry Station	Stage Walls - Upstage Right	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C20	Flush Mtd. Entry Station	Stage Corridor 1023	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C21	Flush Mtd. Entry Station	Stage Corridor 1021	1 Gang	EC	EC	48" AFF	Entry	(1) 3/4"	EC	(1) Belden 8471 +(1)#14	EC
T-C22	Gridiron Network Junction Box	Stage Roof	Integral Box	Specialty Lig	EC	Stage Roof	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C23	Gridiron Network Junction Box	Stage Roof	Integral Box	Specialty Lig	EC	Stage Roof	Net	(1) 3/4"	EC	(1) Belden 1583A	EC
T-C24	Gridiron Network Junction Box	Stage Roof	Integral Box	Specialty Lig	EC	Stage Roof	Net	(1) 3/4"	EC	(1) Belden 1583A	EC



AV CONDUIT RISER DIAGRAM

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BG FORWARD
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AUDITORIUM AV SCHEDULES AND DETAILS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : RJH
REVISIONS :

2022-35

E5.5

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.

B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).

C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

D. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

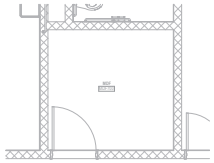
E. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.

F. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.

G. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.

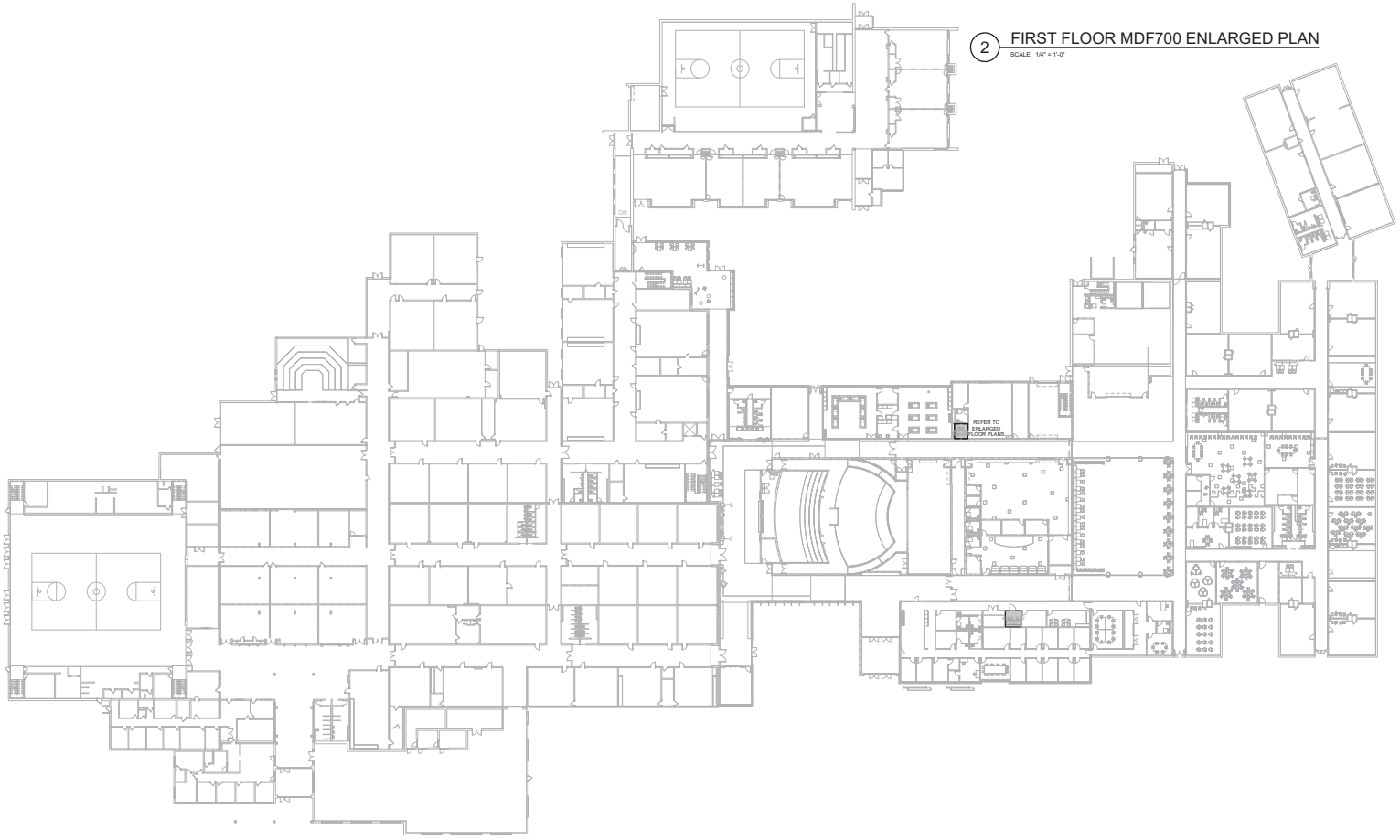
H. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

KEYNOTES:



2 FIRST FLOOR MDF700 ENLARGED PLAN

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



1 FIRST FLOOR PLAN INTERCONNECTION - ELECTRICAL

SCALE: 1" = 30'-0"

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OVERALL INTERCONNECTION PLAN – ELECTRICAL

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

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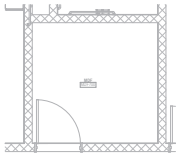
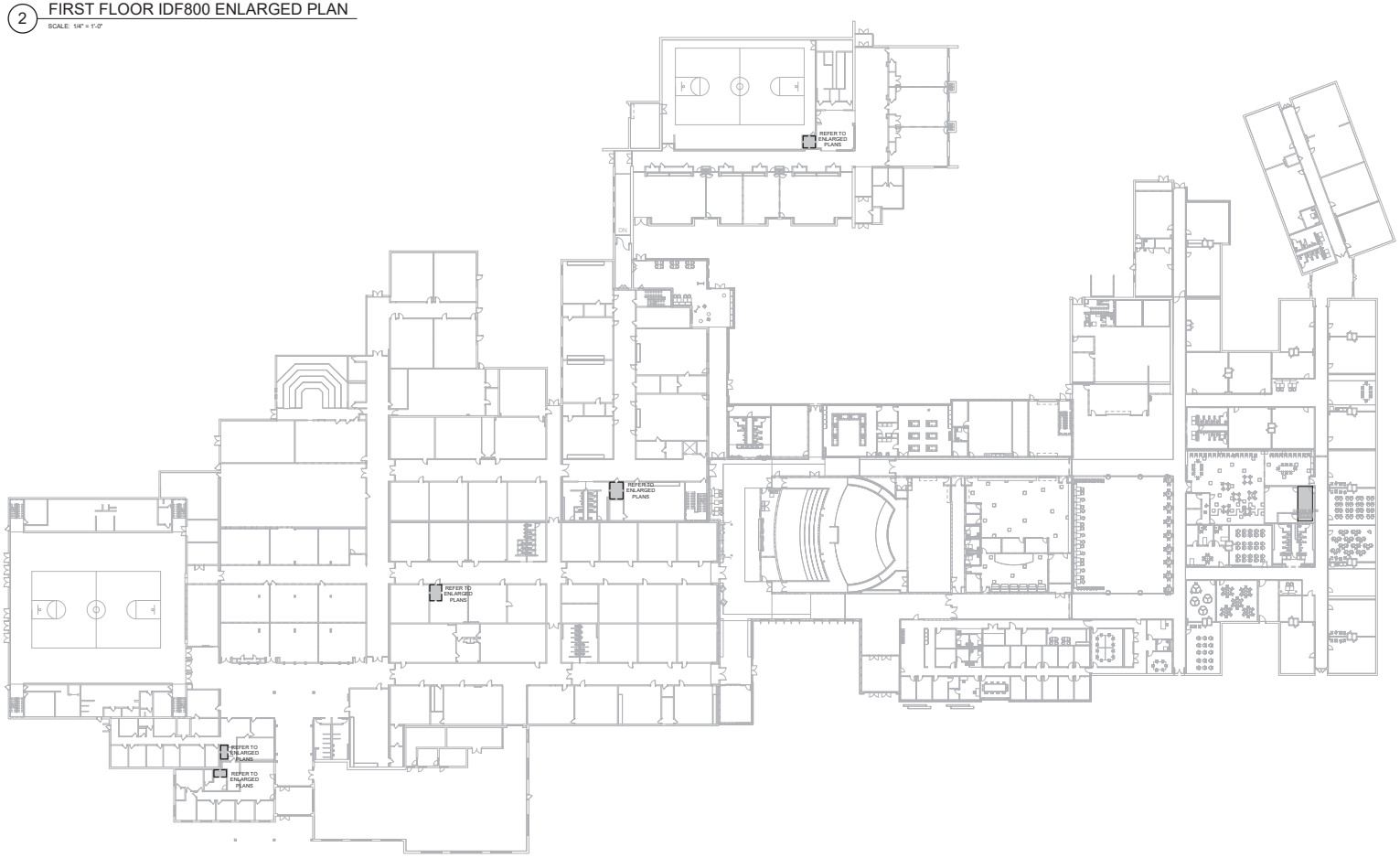
E6.0



2 FIRST FLOOR IDF800 ENLARGED PLAN

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



1 FIRST FLOOR INTERCONNECTION PLAN - SYSTEM

SCALE: 1" = 30'-0"

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.

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KEYNOTES:

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OVERALL INTERCONNECTIONS PLAN - SYSTEMS

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

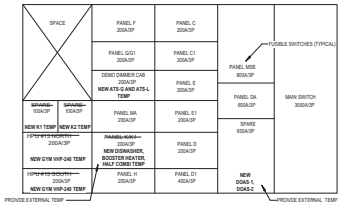
DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

2022-35

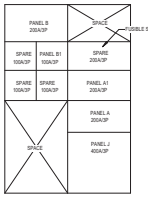
E6.1

100% DESIGN DEVELOPMENT

E7.0	2022-35		DATE: 07/24/2023 DRAWN BY: CMTA CHECKED BY: BR REVISIONS: -	BC# 23-050	ELECTRICAL RISER DEMOLITION Bullitt East High School – Fine Arts Addition 11450 KY-44 Mt. Washington, KY 40047	BC MOVING FORWARD				studio kremer architects 1231 S Shelby St, Louisville, KY 40203 TEL 502.499.1100 FAX 502.499.1101 studio



EXISTING MSA SWITCHBOARD LINEUP



EXISTING MSB SWITCHBOARD LINEUP

FEEDS TO BE INTERCEPTED AND EXTENDED TO NEW SWITCHBOARD. TEMP SETIONS OF FEEDS IS ACCEPTABLE TO BE ALUMINUM SER CABLE WHERE INSTALLED AND SUPPORTED PER CODE.

ALL TEMPORARY FEEDS, EQUIPMENT, ETC. SHALL BE DEMOLISHED AT END OF CONSTRUCTION.

FUSIBLE SWITCHES (TYPICAL)

HP1J #5 30A/3P	BOILER 30A/3P
EF.BAU.J 30A/3P	PUMP#3 30A/3P
SPARE 30A/3P	HP1J #14 30A/3P
HP1J #6 30A/3P	HP1J #15 30A/3P
SPARE 30A/3P	SPARE 30A/3P
PUMP 60A/3P	SPARE 30A/3P
HP1J #10 100A/3P	HP1J #12 100A/3P
PUMP #1 100A/3P	PUMP #2 100A/3P

EXISTING DA SWITCHBOARD LINEUP

GENERAL NOTES (RISER):

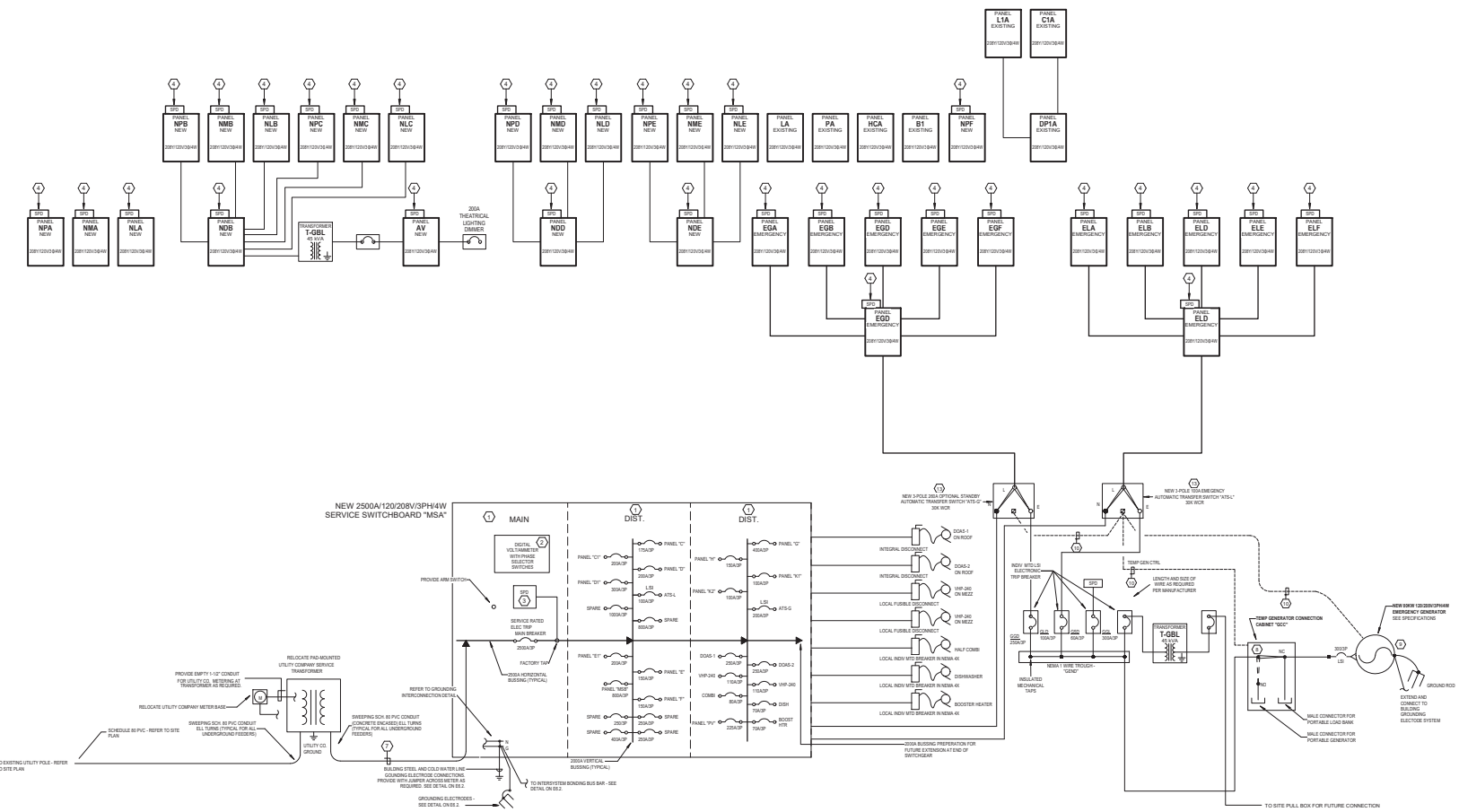
A. PROVIDE ENGRAVED LAMACOID LABELS FOR ALL POWER DISTRIBUTION EQUIPMENT FURNISHED OR MODIFIED IN THIS PROJECT, LABELS PER DETAILS AND SPECIFICATIONS.
B. SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT-CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A TYPE-WRITTEN ADHESIVE LABEL WITH WHITE BACKGROUND, 1/2" HIGH BLACK LETTERING.
C. CONTRACTOR SHALL INSTALL SEPARATE CONDUITS, PULL BOXES, ETC. FOR EACH GENERATOR POWER BRANCH, OPTION AND LEGALLY REQUIRED, AND NORMAL POWER FOR COMPLETE SEPARATION OF POWER SERVICES AND BRANCHES.
D. REFER TO SPECIFICATIONS FOR ARC FLASH AND RELATED POWER SYSTEM STUDY REQUIREMENTS.
E. AS PART OF THIS CONTRACT, PROVIDE A COORDINATION/FAULT CURRENT STUDY FOR BREAKERS ON THIS PROJECT. STUDY 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 LIFE-SAFETY POWER SYSTEM (NOT GENERAL EMERGENCY POWER BRANCH OR OPTIONAL BRANCH) SHALL BE SELECTIVELY COORDINATED TO 0.1 SECONDS PER NEC (NFPA-70) 8700.25. 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. ELECTRICAL STUDIES SHALL BE PERFORMED BY THE LOW-VOLTAGE SWITCHBOARD MANUFACTURER, NO EXCEPTIONS. STUDIES CONDUCTED BY THIRD PARTIES WILL BE REJECTED.

ELECTRICAL FEEDER SCHEDULE

EQUIPMENT NAME	FED FROM	VOLTAGE	RATING	SETS	PHASE SIZE	NEUTRAL SIZE	GROUND SIZE	CONDUIT SIZE

POWER RISER TAGGED NOTES:

1. PROVIDE NEW (3) SECTION 2500A/120/208V/3PH/4W SWITCHBOARD RATED AT 65KAIC MIN., SQUARE "D" QED-2 STYLE WITH THE FOLLOWING SECTIONS : (REFER TO FLOOR PLANS FOR LAYOUT - MAY BE MIRRORED OF THIS LAYOUT)
   1. MAIN SECTION: SECTION SHALL HOUSE 2500A/3P. 100% RATED FULL-FUNCTION, ELECTRONIC TRIP. MOLDED CASE "MICRO-LOGIC" MAIN CIRCUIT BREAKER WITH DIGITAL VOLTAMMETER AND PROVIDE WITH 5.0 TRIP UNIT. PROVIDE MAINTENANCE ARC ENERGY REDUCTION SWITCH FOR COMPLIANCE WITH NEC 240.87. MAIN SHALL HAVE PHASS LOSS PROTECTION TRIP.
   2. DISTRIBUTION SECTIONS
      A. TWO (2) 2000A SINGLE ROW SECTIONS WITH MINIMUM OF 72" OF MOUNTING SPACE FOR CIRCUIT BREAKER BYTLE SWITCHGEAR. ALL EXTRA SPACE SHALL BE COMPLETELY FILLED WITH SPARES AS INDICATED AND PREPARED SPACES. MATCH LAYOUT INDICATED ON PLAN. PROVIDE ADDITIONAL SECTION AS REQUIRED TO PROVIDE SPARES.
2. DIGITAL METER (SQUARE "D" # PM5563RD OR APPROVED EQUAL) TO BE MOUNTED IN SWITCHBOARD. MANUFACTURER TO PROVIDE INTERFACE TO CC SPECIFIED IN SECTION 250400. INTERFACE TO INCLUDE ALL HARDWARE NECESSARY TO COMMUNICATE WITH PROTOCOL CHOSEN BY TEMPERATURE CONTROLS CONTRACTOR. PROVIDE HARDWARE AND SOFTWARE IDENTIFIED FOR THE INTERFACE POINTS, VALUES, UNITS, ETC. PROVIDE TECHNICAL PHONE SUPPORT TO FACILITATE DESIGN AND ENGINEERING OF INTERFACE AND ON SITE TECHNICAL PERSONNEL TO COMMISSION THE INTERFACE WITH TCC. REFER TO SPECIFICATIONS FOR SERIAL COMMUNICATIONS REQUIREMENT.
3. PROVIDE A PARALLEL CONNECTED TRANSIENT VOLTAGE SURGE SUPPRESSOR (SPD). UNIT SHALL BE MOUNTED IN SWITCHBOARD. PROVIDE WITH EVENT COUNTER.
4. NEW SPD (SURGE PROTECTION DEVICE) CATEGORY #B UNIT FOR PANELBOARD AS SPECIFIED (DIVISION #26). MOUNT INTEGRAL PANEL BEING PROTECTED. SPD FEEDERS SHALL BE (4) #6 AND (1) #10 IN 1" CONDUIT OR AS REQUIRED BY MANUFACTURER.
5. INTERCEPT AND EXTEND EXISTING FEEDER TO NEW EQUIPMENT INDICATED. DEMO ABANDONED PORTION OF EXISTING FEEDER NOT UTILIZED. MOST EXISTING FEEDERS ARE UNDERGROUND/INSLAB.
6. PROVIDE 800A/120/208/3PH/4W POWER DISTRIBUTION PANEL. PANEL SHALL BE AN "LINE" TYPE PANEL WITH 45." MIN. OF BREAKER MOUNTING SPACE. CIRCUIT BREAKERS WITH MINIMUM RATINGS OF 35KAIC. SQUARE "D" - HCP OR EQUAL. ALL REMAINING SPACE SHALL BE FILLED WITH EQUAL AMOUNTS OF SPARE 100A/3P BREAKERS. PROVIDE SPARE BREAKERS AS INDICATED IN PANEL SCHEDULES.
7. RACEWAYS TO BE CONCRETE ENCASED. SCHEDULED 40 PVC MIN BURY 36". PROVIDE RIGID STEEL ELS. WHERE PENETRATING GROUND, TRANSITION TO RMC. RIGID STEEL ELLS AND TURN UPS SHALL ONLY BE PROVIDED ON THE SWITCHGEAR SIDE. ON TRANSFORMER SIDE, ELLS AND TURN UPS SHALL BE SCHEDULE 80 PVC.
8. PROVIDE 400AMP GENERATOR DOCKING STATION WITH CAPABILITY OF BEING SIMULTANEOUSLY CONNECTED TO BOTH A LOAD BANK AND ATS'S. REFER TO SPECIFICATION SECTION 263260 FOR ADDITIONAL REQUIREMENTS PROVIDE WITH:
   a. PHASE MONITOR
   b. UTILITY 'ON' INDICATOR (UNIT MOUNTED)
   c. TERMINAL STRIP FOR REMOTE GENERATOR START, REMOTE MONITORING, ETC.
   d. 20A/1P RECEPTACLE AND CIRCUIT FOR BATTERY CHARGER
   e. 30A/2P RECEPTACLE AND CIRCUIT FOR BLOCK HEATER
   f. SIGNAGE INDICATING BONDING/GROUNDING REQUIREMENTS
   g. GENERATOR ANNUNCIATOR TIE IN FOR ON TEMP GENERATO
9. GROUND AND NEUTRAL BARS SHALL **NOT** BE BONDED AT GENERATOR AS SEPARATELY DERIVED SYSTEM.
10. PROVIDE CONDUIT AND WIRING AS REQUIRED FROM TRANSFER SWITCHES TO GENERATOR CONTROLS AS REQUIRED FOR GENERATOR START-UP, ETC. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO BID.
11. ALL BREAKERS TO BE ELECTRONIC TRIP TYPE.
12. INTERIOR FEEDER FIRE PROTECTION: FEEDER IS REQUIRED TO BE PROVIDED AS A FIRE PROTECTED SYSTEM. REFER TO SPECIFICATIONS. AMPACITY AND WIRE SIZE INDICATED IS BASED ON 75 DEGREE C AND IS TO BE THE FULL RATED EQUIVALENT AT 75 DEGREE C
13. PROVIDE JUNCTION BOX TO TEMPORARY CONNECT LOAD AND NORMAL LINE FEEDERS TOGETHER AS REQUIRED FOR PHASING WHERE ATS IS NOT INSTALLED.



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BG MOVING FORWARD

ELECTRICAL RISER

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

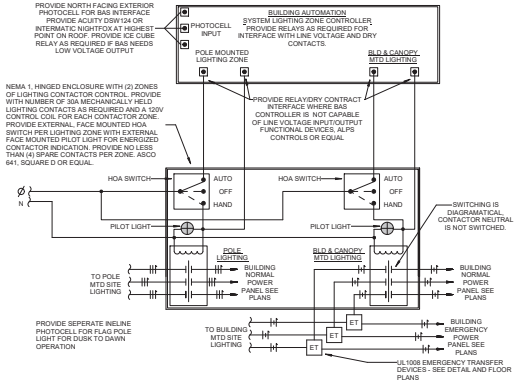
2022-35

E7.1

100% DESIGN DEVELOPMENT

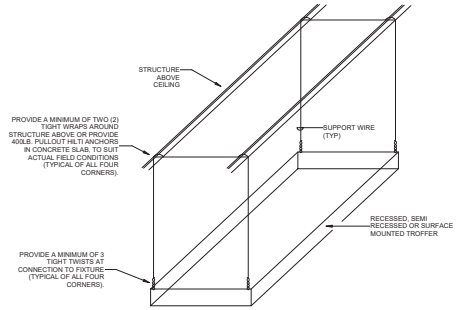
LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A0							59	277	
A2							59	277	
A3							59	277	
AG3							59	277	
B0							59	277	
B2							59	277	
CL4							59	277	
CL8							59	277	
CL12							59	277	
CL16							59	277	
CR4		NEO RAY #S123DR-S-560D-8-40-GYP-4FO-1-U-DD-F-XX					59	277	
CR8							59	277	
D	<varies>						<varies>	277	
DW							59	277	
EMR	4" RECESSED CAN LIGHT FIXTURE					1500	37	277	
EMS							59	277	
EMSL							59	277	
F4C	4" SUSPNEDED CYLINDER					1500	37	277	
F4R	4" RECESSED CAN LIGHT FIXTURE					1500	37	277	
G1		LUMETTA #P534141L2A-XX-FXX-XX-XX-L411-LED-CCT 4000K CRI 90-CXX3-O86=ELDO					37	277	
L4							59	277	
L12							59	277	
LV16	JESCO #IDL-FLEXQ-R0BWW-XX CHANNEL #CH-RI-14-RD-DEC-CH-RI-LC-SQ-FR DMX #LC500INT PS #IDL-PS-240/24-JBA						59	277	
TR							0	120	
VW							59	277	
X1							2	277	
X1D							37	277	
X2							2	277	



1 EXTERIOR LIGHTING CONTROL DETAIL

NO SCALE



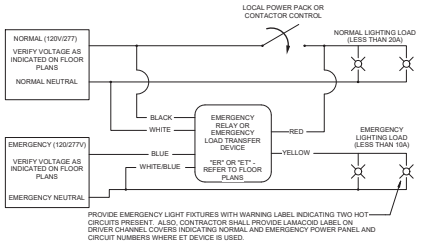
GENERAL TROFFER SUPPORT DETAIL NOTES:

A. SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1055 INCHES IN DIAMETER (12 GAGE).

B. 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.

2 TROFFER SUPPORT DETAIL

NO SCALE



- EMERGENCY RELAY "ER" AND EMERGENCY TRANSFER DEVICES "ET" SHALL REFER TO THIS DETAIL FOR SPECIFICATIONS AND REQUIREMENTS.
- DEVICE IS ASSUMED TO BE IN THE WALL UNLESS SHOWN IN THE CEILING SPACE WITHOUT A HEIGHT. WHERE SHOWN ON THE WALL AND HEIGHT IS NOT INDICATED, PROVIDE QUESTION TO ENGINEER FOR CLARIFICATION.

- UL 924 LISTED "ER" EMERGENCY RELAY: EMERGENCY LIGHTING CONTROL UNIT WITH 20AMP RATING, INTEGRAL TEST SWITCH, THREE LED STATUS LIGHTS THAT INDICATE UNIT POWER MODE. UNITS TO BE UL 924 RATED WITH FIRE RATED HOUSING. UNIT TO HAVE A FIVE YEAR UNCONDITIONAL WARRANTY. UNIT SHALL MONITOR NORMAL POWER AND THE NORMAL POWER LOCAL CONTROL DEVICE (OCCUPANCY SENSOR, PHOTOCELL, SWITCH, ETC.) AND CONTROL THE EMERGENCY LUMINAIRE(S) IN TANDEM. LUMINAIRES SHALL AUTOMATICALLY TURN ON UPON NORMAL POWER LOSS. UNIT SHALL BE 0-10V COMPATIBLE AND WIRED APPROPRIATE PER MANUFACTURERS INSTRUCTIONS. UNITS SHALL BE LVS OR ISOLITE EQUAL
- UL 1008 LOAD TRANSFER DEVICE "ET": SURFACE MOUNT LOAD TRANSFER UNIT WITH 20AMP, UL RATED NO N.C. CONTACTS, THREE LED STATUS LIGHTS THAT INDICATE UNIT IS UNDER POWER FROM NORMAL UTILITY POWER AND EMERGENCY GENERATOR POWER AND TEST MODE WHEN TEST SWITCH IS USED TO COMPY WITH NEC 70-4A AND E, 700-7A. UNITS TO BE CONSTRUCTED OF UL 1008V-0 FLAME RATED IMPACT COMPOSITE UL LIST 1008 TO COMPLY NEC 700-3. FIXTURE TO BE UL LISTED TO ACCEPT TRANSFER DEVICE. UNIT TO HAVE A MINIMUM OF 20 AMP CONTINUOUS RATING AND HAVE A FIVE YEAR UNCONDITIONAL WARRENTY AS MANUFACTURED BY DUAL-LITE ATSD2-, PHILLIPS BODINE, #3T200L OR LVS #EPC-C-F-ATS.
- "ER" UNITS SHALL BE LOCATED AT ACCESSIBLE LOCATION AS INDICATED IN CLASSROOMS AND OTHER AREAS FOR TESTING BY OWNER. WHERE CEILING LOCATION IS 9'-0" AND BELOW, UNIT CAN GO IN CIELNIG. WHERE CEILING IS ABOVE 9'-0", UNIT SHALL BE WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS. WHERE NO HEIGHT IS LISTED, CONTACT THE ENGINEER.
- PROVIDE WITH LED INDICATOR FOR INDICATION OF LOSS OF A POWER SOURCE. DO NOT PROVIDE WITH AUDIBLE INDICATOR.
- DEVICES SHALL BE COMPATIBLE WITH DIMMING LIGHTING CONTROL SYSTEMS TO SHUNT THE 0-10V DIMMING WIRES TO FULL ON.

3 TYPICAL EMERGENCY LIGHTING TRANSFER DET

NO SCALE

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BG MOVING FORWARD

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ELECTRICAL DETAILS AND SCHEDULES

Bullitt East High School – Fine Arts Addition

1140 KY-44
Mt. Washington, KY 40047

BG# 23-050

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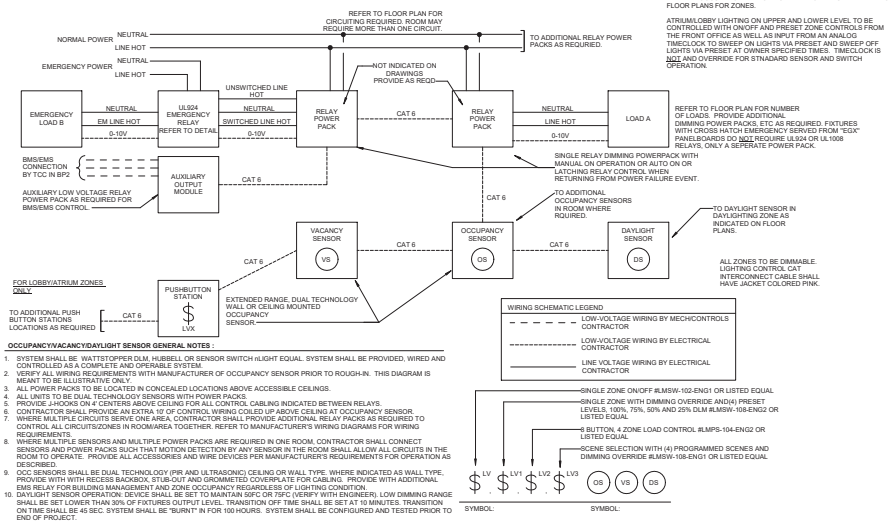


LIGHTING ZONES IN THE SAME AREA TO BE TRIGGERED TOGETHER WITH ALL OCCUPANCY SENSORS OPERATING AS A UNIT. REFER TO FLOOR PLANS FOR ZONES.

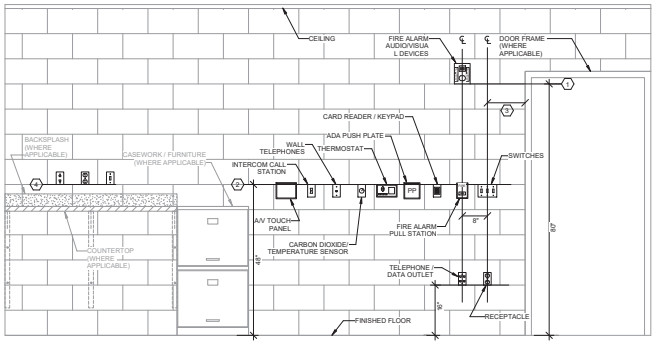
ATRIUM/LOBBY LIGHTING ON UPPER AND LOWER LEVEL TO BE CONTROLLED WITH ON/OFF AND PRESET ZONE CONTROLS FROM THE FRONT OFFICE AS WELL AS INPUT FROM AN ANALOG TIMECLOCK TO SWEEP ON LIGHTS VIA PRESET AND SWEEP OFF LIGHTS VIA PRESET AT OWNER SPECIFIED TIMES. TIMECLOCK IS NOT AND OVERRIDE FOR STNADARD SENSOR AND SWITCH OPERATION.

OCCUPANCY/VACANCY/DAYLIGHT SENSOR GENERAL NOTES :

1. SYSTEM SHALL BE WATTSTOPPER DLM, HUBBELL OR SENSOR SWITCH nLIGHT EQUAL. SYSTEM SHALL BE PROVIDED, WIRED AND CONTROLLED AS A COMPLETE AND OPERABLE SYSTEM.
2. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF OCCUPANCY SENSOR PRIOR TO ROUGH-IN. THIS DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
3. ALL POWER PACKS TO BE LOCATED IN CONCEALED LOCATIONS ABOVE ACCESSIBLE CEILINGS.
4. ALL UNITS TO BE DUAL TECHNOLOGY SENSORS WITH POWER PACKS.
5. PROVIDE J-HOOKS ON 4' CENTERS ABOVE CEILING FOR ALL CONTROL CABLING INDICATED BETWEEN RELAYS.
6. CONTRACTOR SHALL PROVIDE AN EXTRA 10' OF CONTROL WIRING COILED UP ABOVE CEILING AT OCCUPANCY SENSOR.
7. WHERE MULTIPLE CIRCUITS SERVE ONE AREA, CONTRACTOR SHALL PROVIDE ADDITIONAL RELAY PACKS AS REQUIRED TO CONTROL ALL CIRCUITS/ZONES IN ROOM/AREA TOGETHER. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR WIRING REQUIREMENTS.
8. 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.
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 AND ZONE OCCUPANCY REGARDLESS OF LIGHTING CONDITION.
10. DAYLIGHT SENSOR OPERATION: DEVICE SHALL BE SET TO MAINTAIN 50FC OR 75FC (VERIFY WITH ENGINEER). 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 "BURN" IN FOR 100 HOURS. SYSTEM SHALL BE CONFIGURED AND TESTED PRIOR TO END OF PROJECT.
11. SWITCHES TO BE FACTORY LABELED. COORDINATE DURING SHOP DRAWINGS.

1 OCCUPANCY/VACANCY/DAYLIGHT SENSOR LIGHTING CONTROL WIRING DIAGRAM

NO SCALE



DEVICE MOUNTING DETAIL - GENERAL NOTES:

A. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).

B. WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).

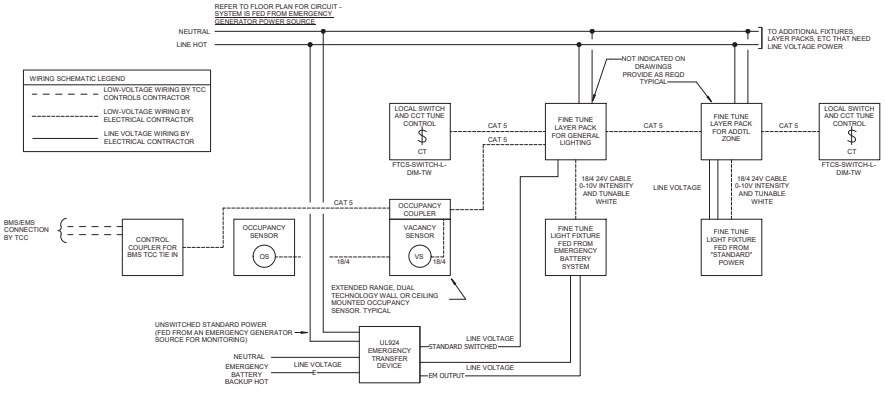
C. FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

1. MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
2. ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
3. MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 1/2" FROM FRAME TO AVOID BLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
4. THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

2 TYPICAL WALL DEVICE MOUNTING DETAIL

NO SCALE

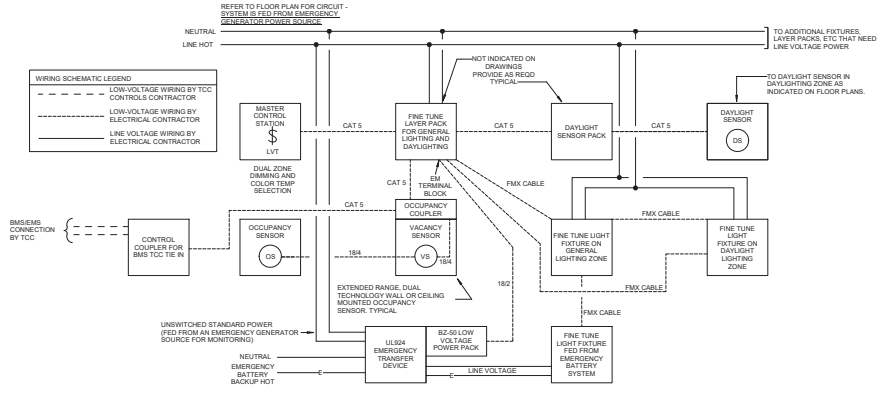


COLOR TUNING CONTROL SYSTEM GENERAL NOTES:

1. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF SYSTEM AND ALL OTHER DEVICES PRIOR TO ROUGH-IN. THIS DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
2. ALL LAYER PACKS TO BE LOCATED IN CONCEALED LOCATIONS ABOVE ACCESSIBLE CEILINGS.
3. ALL OCCUPANCY/VACANCY UNITS TO BE DUAL TECHNOLOGY SENSORS WITH POWER PACKS AS REQUIRED.
4. PROVIDE J-HOOKS ON 4' CENTERS ABOVE CEILING FOR ALL CONTROL CABLING INDICATED BETWEEN RELAYS.
5. SYSTEM SHALL BE FINE TUNE TAILORED CONTROL SYSTEM OR EQUAL DMX CCT COLOR TUNING SYSTEM. SYSTEM SHALL BE PROVIDED, WIRED AND CONTROLLED AS A COMPLETE AND OPERABLE SYSTEM.
6. SEQUENCE OF OPERATION NOTES: SYSTEM WILL OPERATE AS NORMAL UNDER NORMAL AND EMERGENCY GENERATOR POWER SYSTEMS. UPON LOSS OF EMERGENCY GENERATOR POWER SYSTEM, UL924 DEVICE WILL INDICATE THIS LOSS AND SHUNT ON VOLTAGE FROM THE EMERGENCY BATTERY BACKUP SYSTEM. THE BATTERY BACKUP SYSTEM WILL FEED DESIGNATED EMERGENCY FIXTURES AND WILL ALSO FEED THE LOW VOLTAGE POWER PACK AND EM LAYER PACK LOW VOLTAGE INPUT INDICATING LOSS OF "STANDARD POWER" AND BRINGING FIXTURE TO FULL BRIGHTNESS VIA THE FMX CABLING TO THE FIXTURE.

3 SMALL CCT COLOR TUNING CONTROL SCHEMATIC

NO SCALE



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4 CCT COLOR TUNING CONTROL SCHEMATIC

NO SCALE

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ELECTRICAL DETAILS AND SCHEDULES

Bullitt East High School - Fine Arts Addition
11450 KY-44
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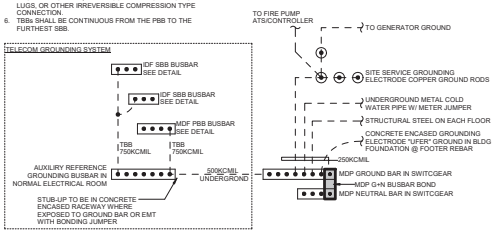
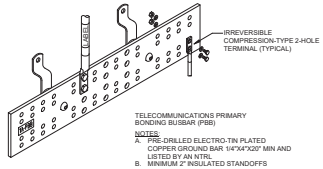
TELECOM GROUNDING NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C.
2. LOCATE PBB IN TELECOMM ENTRANCE FACILITY (MDF).
3. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
4. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA-606 REQUIREMENTS.
5. ALL CONNECTIONS TO THE PBB/SBB AND TBB SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
6. TBBs SHALL BE CONTINUOUS FROM THE PBB TO THE FURTHEST SBB.



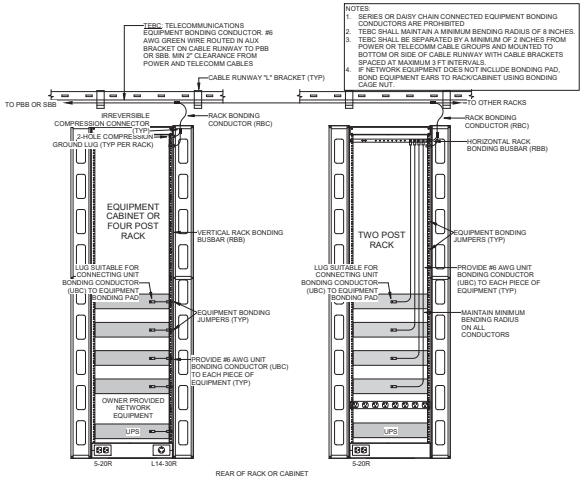
NOTES:
A. SIZE GROUNDING ELECTRODE CONDUCTORS PER NEC 250.66 OR SIZE LISTED ABOVE, WHICHEVER IS HIGHER.
B. REFER TO FEEDER SCHEDULES FOR SIZES OF EQUIPMENT GROUNDING CONDUCTORS.
C. MAIN GROUND BUS BAR TO BE PRE DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR, 1/4"x4" LENGTH AS REQUIRED FOR NUMBER OF CONNECTIONS. PROVIDE WITH 2" INSULATED STANDOFFS. CLEAN SURFACE AND PROVIDE ANTIOXIDANT PRIOR TO FASTENING CONDUCTORS.
D. EXPOSED GROUND CONDUCTORS INDICATED IN THIS DETAIL IN INTERIOR SPACES TO BE PROVIDED IN SCHEDULE 80 PVC (OTHER RACEWAY WHERE NOT IN PLENUM SPACE). EXTERIOR GROUND CONDUCTORS SHALL NOT BE EXPOSED AND SHALL BE ROUTED IN 1.5" DIRECT BURIED SCHEDULE 80 PVC - MIN BURY 36".
E. PROVIDE PVC SLEEVE WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.

1 GROUNDING ELECTRODE INTERCONNECTION DETAIL
NO SCALE



NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

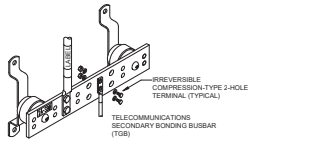
2 TELECOMM BUSBAR - PBB
NO SCALE



NOTES:
1. SERIES OR DAISY CHAIN CONNECTED EQUIPMENT BONDING CONDUCTORS ARE PROHIBITED
2. TEBC SHALL MAINTAIN A MINIMUM BENDING RADIUS OF 8 INCHES.
3. TEBC SHALL BE SEPARATED BY A MINIMUM OF 2 INCHES FROM POWER OR TELECOMM CABLE GROUPS AND MOUNTED TO BOTTOM OR SIDE OF CABLE RUNWAY WITH CABLE BRACKETS SPACED AT MAXIMUM 3 FT INTERVALS.
4. IF NETWORK EQUIPMENT DOES NOT INCLUDE BONDING PAD, BOND EQUIPMENT EARS TO RACK/CABINET USING BONDING CAGE NUT.

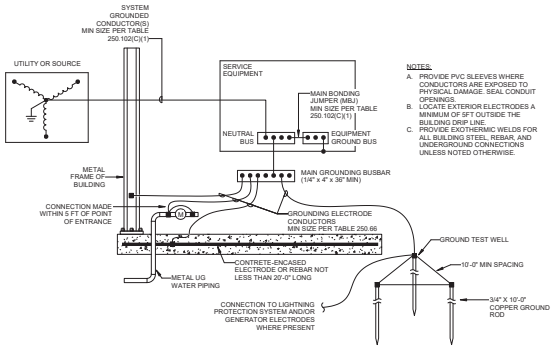
RACKS ARE PROVIDED IN SEPERATE CONTRACT - GRONDING OF THOSE RACKS IS IN THIS CONTRACT

3 RACK GROUNDING AND POWER DETAIL
NO SCALE



NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X2"X12" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

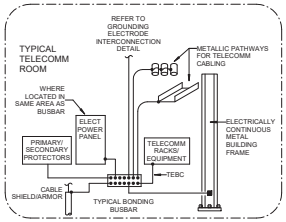
4 TELECOMM BUBAR - SBB
NO SCALE



NOTES:
A. PROVIDE PVC SLEEVES WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
B. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.
C. PROVIDE EXOTHERMIC WELDS FOR ALL BUILDING STEEL, REBAR, AND UNDERGROUND CONNECTIONS UNLESS NOTED OTHERWISE.

6 GROUNDING ELECTRODE SYSTEM DETAIL
NO SCALE

NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C
2. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
3. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA/EIA 606 REQUIREMENTS.
4. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
5. ALL METALLIC RACEWAYS FOR TELECOMM CABLING SHALL BE BONDED TO BUSBAR IF LOCATED IN SAME ROOM OR AREA.
6. WHERE THE OSP OR BACKBONE CABLING INCORPORATES A SHIELD OR METALLIC ARMOR, IT SHALL BE BONDED TO THE BUSBAR WHERE THE CABLES ARE TERMINATED OR WHERE THE PAIRS ARE BROKEN OUT FROM THE CABLE SHEATH.
7. BONDING CONDUCTOR TO BUILDING STEEL SHALL BE SIZED TO MATCH BACKBONE CONDUCTOR. OTHER BONDING CONDUCTORS SHALL BE A MINIMUM #6 AWG AND INSTALLED WITH A MINIMUM 8-INCH BEND RADIUS.
8. BONDING CONDUCTORS FOR ENTRANCE PROTECTORS AND CABLE SHIELDING CAPABLE OF CONDUCTING LIGHTNING AND FAULT CURRENTS SHALL MAINTAIN A MINIMUM OF 1FT SEPARATION FROM ALL TELECOMM CABLING.



5 TELECOMM BUSBAR PBB/SBB CONNECTIONS
NO SCALE

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100% DESIGN DEVELOPMENT

ELECTRICAL DETAILS AND SCHEDULES

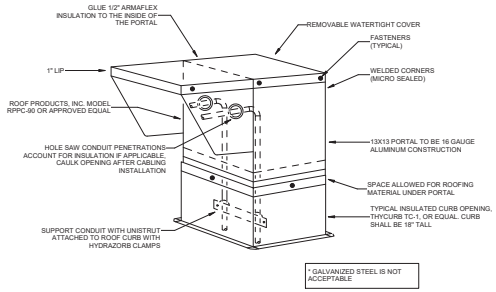
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

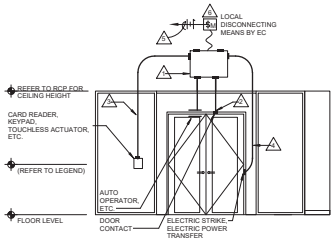
2022-35

E8.2



1 ROOF CURB DETAIL

NO SCALE



ACCESS CONTROL SYSTEM (TAGGED NOTES)

1. 12X16X4D DOOR INTERCONECTION BOX ABOVE ACCESSIBLE CEILING OR AS LOCATED ON FLOOR PLANS - C.F.C.I. REFER TO DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE 3/4" CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR DOOR POSITION CONTACT SWITCHES, AUTO OPERATORS, ETC. PROVIDE ADDITIONAL CONDUITS AND LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATION AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE 3/4" CONDUIT STUB-OUT FROM DOOR OPERATOR DEVICE 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR CARD READERS, TOUCHLESS ACTUATORS, KEYPADS, ETC. PROVIDE ADDITIONAL CONDUITS AND LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATION AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE 3/4" CONDUIT STUB-OUT FROM DOOR FRAME TO 6" ABOVE CEILING AT DOOR LOCATION AS REQUIRED FOR ELECTRIC POWER TRANSFER, ELECTRIC STRIKE, ETC. PROVIDE ADDITIONAL CONDUITS AT LOCATIONS AS REQUIRED FOR ADDITIONAL DEVICES. REFER TO DOOR HARDWARE SPECIFICATION AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
5. ROUTE 120V POWER TO ALL DOOR POWER SUPPLIES, AUTO DOOR OPERATORS, ETC. AS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS FOR DEVICES REQUIRED. PROVIDE LOCAL MOTOR RATED SNAP SWITCH ABOVE CEILING FOR LOCAL DISCONNECT OF DOOR POWER SUPPLIES.
6. O.F.C.I POWER SUPPLY ABOVE ACCESSIBLE CEILNG.

ACCESS CONTROL SYSTEM (GENERAL NOTES)

- PROVIDE ALL NECESSARY BACKBOXES, CONDUITS AND ROUGH-INS REQUIRED. REFER TO DOOR HARDWARE SPECIFICATION FOR DOOR RISER REQUIREMENTS PER DOOR AND FOR EQUIPMENT ITEMS AND CONNECTIONS.
- REFER TO DOOR HARDWARE SPECIFICATIONS SECTION AND 087100 FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL CONDUITS AND FINAL TERMINATIONS OF PATHWAYS AT ALL DOOR FRAMES, WALLS, BACKBOXES, ETX AS REQUIRED FOR WIRING PATHWAYS
- PROVIDE 3/4" CONDUIT MINIMUM FOR ALL ACCESS CONTROL ROUGH-IN AND STUB-OUTS. **FLEXIBLE RACEWAYS WILL NOT BE ACCEPTED.**
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL ROUGH-INS AND CONDUIT ARE PROVIDED IN THE DOOR FRAME DURING INSTALLATION (STRIKE, ELECTRIC POWER TRANSFER DEVICE, AUTO DOOR OPERATOR/ ACTUATOR AND DEVICE. ETC.) **SURFACE CONNECTIONS ON NEW HARDWARE WILL NOT BE ACCEPTED.** COORDINATE WITH OWNER, DOOR HARDWARE VENDOR AND GENERAL CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ALL ACCESS CONTROL FIRE ALARM DOOR CONTROL TIE-INS WHERE REQUIRED FOR FREE EGRESS, COORDINATE WITH DOOR HARDWARE SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE INTERFACE FROM OWNERS ACCESS CONTROL SYSTEM TO DRY-CONTACT INPUT AT FIRE ALARM SYSTEM TO RELEASE ALL DOOR HOLD OPENS UPON ACTIVATION OF THE PANIC BUTTON MODE.

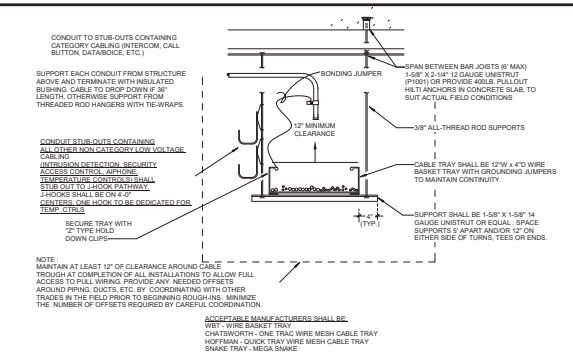
A PRECONSTRUCTION MEETING SHALL BE ARRANGED BY THE ELECTRICAL CONTRACTOR, GC, DIVISION 08 DOOR HARDWARE VENDOR AND OWNER/ENGINEER FOR COORDINATION PRIOR TO ANY INSTALLATION OF FRAMES OR ROUGH-INS THAT CONTAIN ANY LOW VOLTAGE INTEGRATION.

NO FRAMES OR ROUGH-INS ARE TO BE INSTALLED PRIOR TO THIS MEETING AND WHERE INSTALLATION OCCURS PRIOR TO THIS MEETING, ALL INSTALLATION WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. NO EXCEPTIONS.

WHERE FLEXIBLE CONDUIT IS INSTALLED AFTER THIS MEETING, ALL INSTALLATION WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. NO EXCEPTIONS.

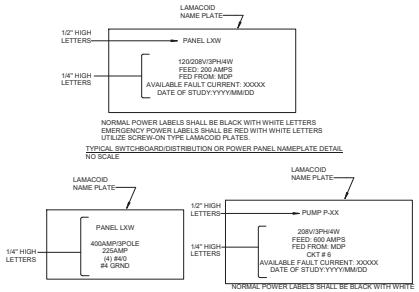
2 TYPICAL ACCESS CONTROLLED DOOR DETAIL

NO SCALE



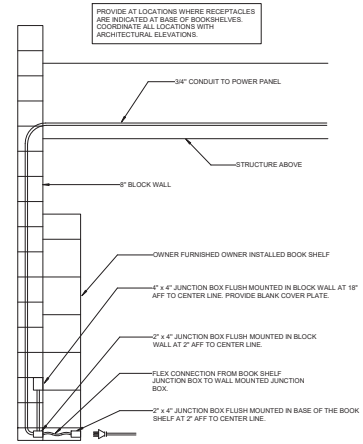
3 CABLE MANAGEMENT INSTALLATION DETAIL

NO SCALE



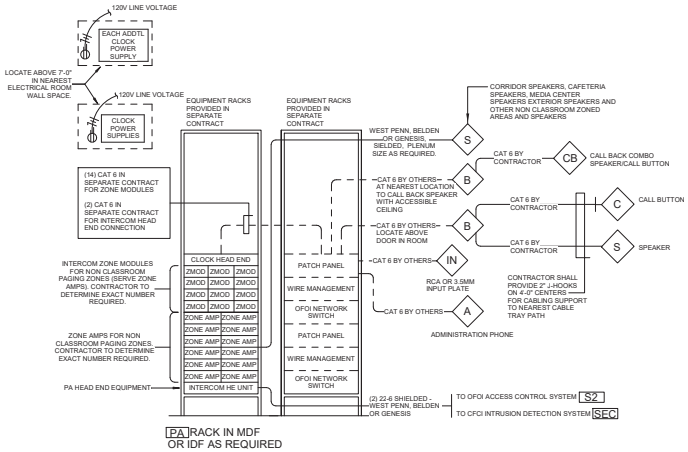
4 PANEL LABELING DETAILS

NO SCALE



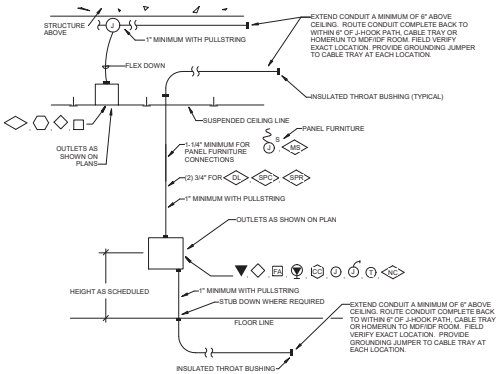
5 BOOKSHELF OUTLET DETAIL

NO SCALE



6 PAGING SYSTEM INTERCONNECTION DETAIL

NO SCALE



NOTES:

A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON ALL SYSTEM'S DRAWINGS. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.
B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
D. INSTALL TELECOMMUNICATION AND CABLE TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.

7 ROUGHING-IN DETAIL FOR STUB-OUTS

NO SCALE

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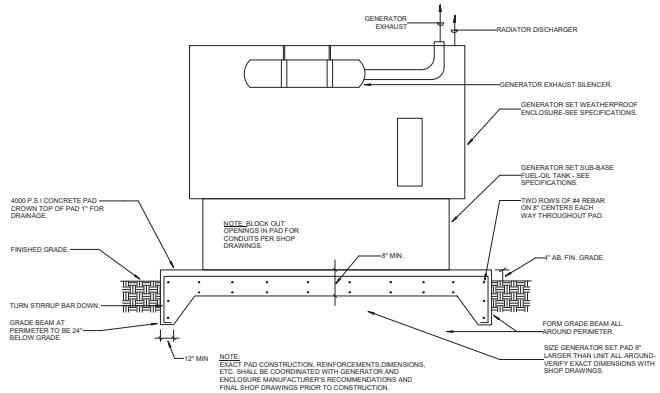
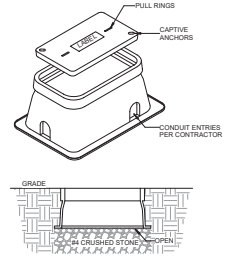


1 GENERATOR CONCRETE PAD DETAIL

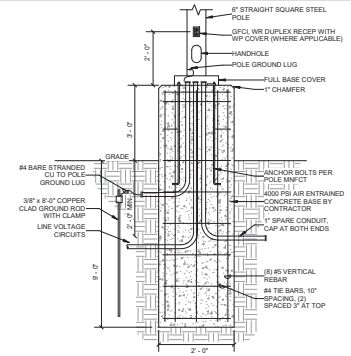
NO SCALE



NOTES:
1. BOXES TO BE SIZED PER NEC 314.28 BASED UPON FIELD CONFIGURATION OF CONDUIT ENTRIES. PROVIDE EXTENSIONS WHERE REQUIRED.
2. BOX AND LID TO BE CONSTRUCTED OF POLYMER CONCRETE. LID TIER RATING PER INSTALLED LOCATION.
3. REFER TO SPECIFICATIONS FOR RELATED INFORMATION.

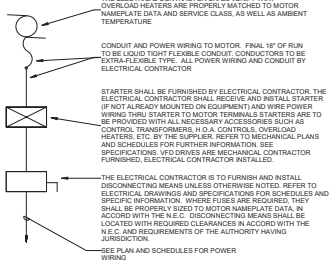
2 PULL BOX DETAIL

NO SCALE



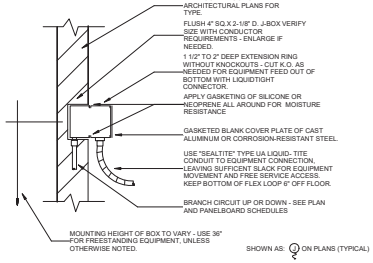
3 POLE BASE DETAIL

NO SCALE



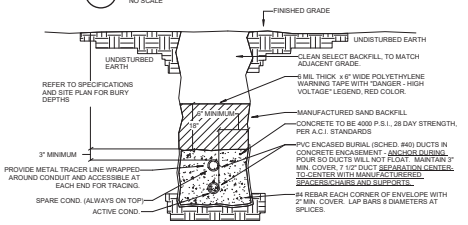
4 DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION

NO SCALE



5 TYPICAL HARD-WIRED CONNECTION

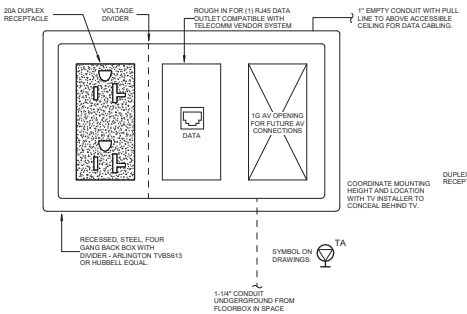
NO SCALE



GENERAL NOTES :
A. USE RIGID STEEL SWEEPING ELLS AT ALL TURNS, WHERE RISING ON UTILITY POWER POLE, TURNING UP INTO PAD MOUNTED UTILITY TRANSFORMER AND TURNING UP INTO BUILDING.
B. REFER TO POWER RISER, FLOOR PLANS AND PLAN NOTES FOR EXACT QUANTITY AND SIZE OF CONDUITS.
C. COMMUNICATIONS/FIBER RACEWAYS SHALL BE ROUTINED IN DUCT BANK ENCASED CONSTRUCTION, CONSTRUCTED SAME AS SHOWN, EXCEPT FOR NUMBER AND SIZE OF CONDUIT.
D. DUCT BANK CONSTRUCTION FOR SECONDARY SERVICE SHALL BE SAME AS SHOWN, EXCEPT WITH GREATER NUMBER OF CONDUITS. REFER TO POWER RISER DIAGRAM FOR REQUIREMENTS AND PLAN NOTES.
E. REFER TO POWER RISER DIAGRAM FOR REQUIREMENTS AND PLAN NOTES.
F. POUR CONCRETE AGAINST UNDISTURBED EARTH.
G. REFER TO SPECIFICATION SECTION 260544 FOR EXCAVATION, TRENCHING, BACKFILLING AND GRADING REQUIREMENTS. REFER TO EARTHWORK SPECIFICATIONS FOR GENERAL ROCK REMOVAL AND EARTHWORK REQUIREMENTS.
H. REFER TO SPECIFICATION SECTION 260533 FOR ADDITIONAL DUCT BANK REQUIREMENTS.

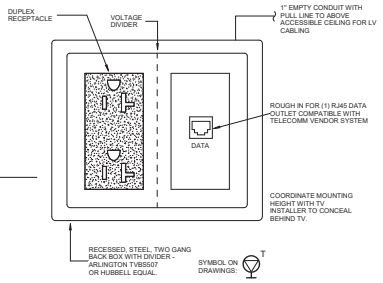
6 TYPICAL TRENCH DETAIL

NO SCALE



7 TELEVISION OUTLET DETAIL WITH AV ROUGH-IN

NO SCALE

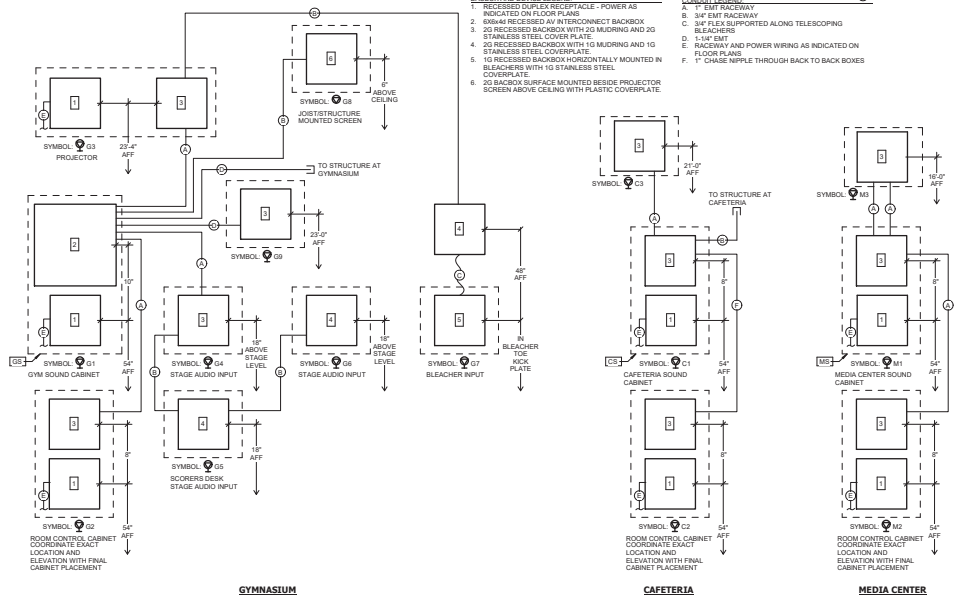


8 TELEVISION OUTLET DETAIL

NO SCALE

BACBOX AND DEVICE LEGEND:
1. RECESSED DUPLEX RECEPTACLE - POWER AS INDICATED ON FLOOR PLANS
2. 6X6x4d RECESSED AV INTERCONNECT BACKBOX
3. 2G RECESSED BACKBOX WITH 2G MUDRING AND 2G STAINLESS STEEL COVER PLATE.
4. 2G RECESSED BACKBOX WITH 1G MUDRING AND 1G STAINLESS STEEL COVERPLATE.
5. 1G RECESSED BACKBOX HORIZONTALLY MOUNTED IN BLEACHERS WITH 1G STAINLESS STEEL COVERPLATE.
6. 2G BACBOX SURFACE MOUNTED BESIDE PROJECTOR SCREEN ABOVE CEILING WITH PLASTIC COVERPLATE.

CONDUIT LEGEND:
A. 1" EMT RACEWAY
B. 3/4" EMT RACEWAY
C. 3/4" FLEX SUPPORTED ALONG TELESCOPING BLEACHERS
D. 1-1/4" EMT
E. RACEWAY AND POWER WIRING AS INDICATED ON FLOOR PLANS
F. 1" CHASE NIPPLE THROUGH BACK TO BACK BOXES



9 AV INTERCONNECTION AND ROUGH-IN

NO SCALE

100% DESIGN DEVELOPMENT

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studio

MOVING FORWARD

ELECTRICAL DETAILS AND SCHEDULES

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11450 KY-44
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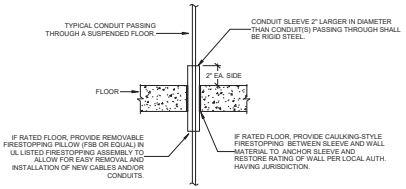
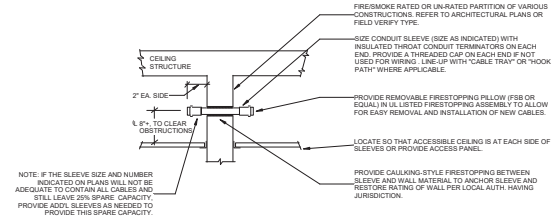


GENERAL FLOOR PENETRATION NOTES :

A. WHERE CONDUITS PENETRATE A FLOOR SLAB AND ARE EXPOSED, PROVIDE SQUARE 4" HIGH CONCRETEPAD AROUND CONDUIT SLEEVE AND EXTEND SLEEVE 4" ABOVE PAD.
B. WHERE CONDUITS OR SLEEVES PENETRATE FLOORS IN GROUPS, THE CONCRETE PAD SHOULD BE CONTINUOUS AROUND ALL CONDUITS OR SLEEVES.

1 CONDUIT PENETRATION SLEEVE INSTALLATION

NO SCALE



GENERAL NOTES:

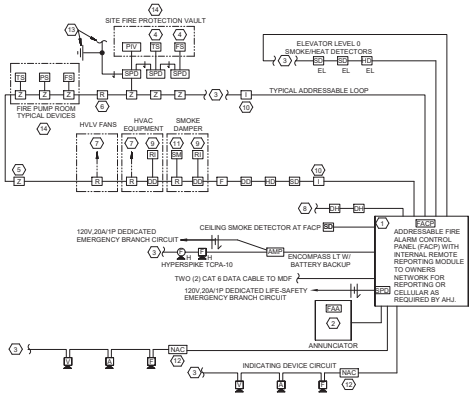
A. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
B. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

2 SYSTEMS CABLING SLEEVE INSTALLATION

NO SCALE

TAGGED NOTES:

1. PROVIDE NEW RECESSED 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 FUTRE 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 LOOPCIRCUIT AS REQUIRED. REFER TO FLOOR PLAN FOR PROPOSED DEVICE LOCATIONS.
4. COORDINATE WITH DRAWINGS FOR ACTUAL NUMBER OF TAMPER, FLOW AND PRESSURE SWITCHES REQUIRED TO BE MONITORED ON THE FIRE SUPPRESSION RISER AND THE SUPPRESSION ZONES ON EACH FLOOR.
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: FIRE PROTECTION TAMPER, FLOW AND PRESSURE SWITCHES, FIRE PROTECTION POST-INDICATOR VALVE, DRY/CHEMICAL FIRE SUPPRESSION SYSTEMS, AND KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
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. OPERABLE FIRE SHUTTERS TO CLOSE ON FIRE ALARM. ACCESS CONTROL DOORS TO UNLOCK AND POSITIVELY LATCH ON FIRE ALARM. ELEVATOR FOR ALL SPECIFIED AND REQUIRED FUNCTIONS.
7. ROUTE CONTROL WIRING (IN CONDUIT) BACK TO NEW HVAC EQUIPMENT/CONTROLS FOR AUTOMATIC SHUTDOWN. PROVIDE ADDRESIBLE AND LINE VOLTAGE RELAY AS REQUIRED FOR EQUIPMENT CONTROL.
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 AND DIVISION 8 AND 28 SPECIFICATIONS 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. PROVIDE SMOKE DETECTOR AT ALL NAC LOCATIONS.
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 AWG INSULATED GROUND IN 3/4" CONDUIT.
14. PROVIDE # OF DEVICES AND TYPE AS REQUIRED FOR FIRE PUMP ROOM AND FIRE VAULT MONITORING AS REQUIRED BY FIRE PROTECTION SHOP DRAWINGS, FIRE PROTECTION DESIGN DRAWINGS AND CIVIL DESIGN DRAWINGS



FIRE ALARM SYSTEM GENERAL NOTES:

- PROVIDE AN INTELLIGENT ADDRESSABLE FIRE ALARM SYSTEM FOR THE NEW FACILITY. THIS FIRE ALARM SYSTEM SHALL BE CAPABLE OF MONITORING THE INCOMING FIRE SUPPRESSION RISER, MANUAL PULL-STATIONS, ALL CEILING MOUNTED AUTOMATIC SMOKE AND HEAT DETECTORS AND ALL DUCT-MOUNTED AUTOMATIC SMOKE DETECTORS. IN ADDITION, PROVIDE THIS SYSTEM WITH A DIGITAL DIALER CONNECTED TO A MONITORING SERVICE SO THAT THE PROPER AUTHORITIES ARE NOTIFIED IN THE EVENT OF AN ALARM CONDITION.
- THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE FIRE ALARM CONTROL PANEL (FACP) UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
- ANNUNCIATE ALL INDIVIDUAL FIRE ALARM DEVICES AS WELL AS AUXILIARY FUNCTIONS AT EACH ANNUNCIATOR. REFER TO SPECIFICATIONS, AS WELL AS GENERAL NOTES AND SCHEDULES THIS SHEET.
- FIELD VERIFY THE EXACT NUMBERS AND LOCATIONS OF ALL MECHANICAL RELATED ITEMS (EX. SPRINKLER CONNECTIONS, EXSTINGUISHING SYSTEMS, SMOKE DAMPERS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
- THE BUILDING FIRE ALARM SYSTEM ALSO FUNCTIONS IN SMOKE CONTROL MODE. IN SMOKE CONTROL MODE, ALL SMOKE EVACUATION FANS SHALL RUN. ALL ATRIUM DOORS SHALL OPEN. ALL FANS SHALL RUN AND DOORS REMAIN OPEN UNTIL THE FIRE ALARM SIGNAL IS CLEARED AT THE FIRE ALARM PANEL OR OVERRIDDEN AT THE FIRE FIGHTERS OVERRIDE PANEL. ALL CONTROLS FOR THE SYSTEM SHALL BE UL864 LISTED.
- PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE DUCTWORK SERVING EACH AUTOMATIC FIRE/SMOKE DAMPER. THESE DETECTORS ARE TO MONITOR THE DUCT OPENING IN A SMOKE OR FIRE RATED PARTITION. THESE DETECTORS ARE TO BE PROVIDED WITH AN AUXILIARY, 24V, NORMALLY-CLOSED, RELAY WHICH HOLDS THE DAMPER OPEN. THIS RELAY IS TO KEEP THE DAMPER OPEN UNDER NORMAL CONDITIONS. THIS RELAY IS TO BE WIRED SO THAT IT OPENS, THUS ALLOWING THE DAMPER TO CLOSE. IN THE EVENT OF AN ALARM OR LOSS OF POWER CONDITION. THESE DETECTORS ARE TO BE SUPPLIED AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR AND SHALL BE INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR.
- PROVIDE ADDRESSABLE NOTIFICATION APPLIANCES WITH THIS SYSTEM. THESE APPLIANCES ARE TO BE WHITE WITH RED LETTERING. AUDIBLE NOTIFICATION APPLIANCES ARE TO UTILIZE AN AUDIBLE HORN SETTING AT A MIMIMUM OF 87dB. VISUAL NOTIFICATION APPLIANCES SHALL BE CAPABLE OF MULTIPLE CANDELA SETTINGS UP TO 110 CANDELAS. ALL CONDUIT IN THE FIRE ALARM SYSTEM SHALL BE 3/4" SIZE EXCEPT AS OTHERWISE NOTED. PROVIDE LARGER CONDUIT IF REQUIRED TO MAINAIN CONDUCTORS AT 40% MAXIMUM FILL.
- FIRE ALARM MANUAL STATIONS SHALL BE DOUBLE-ACTION TYPE, POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET, AND ALL SHOULD BE KEYED ALIKE.
- AVOID PLACEMENT OF HEAT DETECTORS CLOSE TO HEAT-PRODUCING EQUIPMENT WHERE RATE-OF-RISE WILL DEGRADE DETECTOR PERFORMANCE OR PRODUCE NUISANCE ALARMS. USE DEVICES CAPABLE FIXED TEMPERATURE (165 F TO 200 F) DETECTION IN SUCH AREAS.
- THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE IN FULL ACCORDANCE WITH THE CURRENT EDITION OF NFPA, KBC, AMERICANS WITH DISABILITIES ACT AND ALL OTHER APPLICABLE CODES.
- COORDINATE WITH THE DOOR HARDWARE SET SPECIFICATIONS AND THE OWNER'S SECURITY REPRESENTATIVE TO VERIFY THE DOORS THAT WILL REQUIRE CONNECTION TO THE FIRE ALARM SYSTEM.
- ALL TAMPER, FLOW AND PRESSURE SWITHCES THAT ARE PROVIDED IN THE CONTRACT SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM BY FIRE-ALARM CONTRACTOR. WHERE IN UNDERGROUND VAULTS, USE SEALED WATERPROOF CONNECTORS AND SWITCHES. REFER TO FIRE SUPPRESSION SYSTEM SHOP DRAWING FOR EACH TYPE OF DEVICE AND LOCATIONS.
- ALL FIRE ALARM STROBE LIGHTS SHALL BE SYCRONIZED TO ACCOMIDATE BUILDING STANDARDS.
- ALL FIRE ALARM SYSTEM CABLING SHALL BE ROUTED IN CONDUIT. CONDUIT SHALL BE 3/4" MINIMUM OR AS REQUIREDTO SUIT CONDUCTORS. CONDUIT SHALL BE MANUFACTURED RED IN COLOR - FIELD PAINTED RED CONDUIT SHALL NOT BE ACCEPTED.
- PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR AIR HANDLING UNITS THAT ARE 2000 CFM OR GREATER.
- THE SENSITIVITY OF SMOKE DETECTORS SHALL BE ADJUSTED FOR THE SERVICE DUTY IN THE AREA INDICATED, TO SUIT BUILDING OPERATIONAL CONDITIONS.
- WIRE SIZE SELECTIONS FOR AUDIO/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
- RISER DIAGRAM FOR FIRE ALARM SYSTEM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER AND THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHALL'S OFFICE OR THE LOCAL AUTHORITY HAVING JURISDICTION, AS APPLICABLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANITIES AND LOCATION OF FIRE ALARM DEVICES PRIOR TO SYSTEM ACTIVATION.
- AUTOMATIC FIRE ALARM DETECTORS SHALL BE LOCATED SO AS TO PREVENT SHELDING BY DUCTWORK, EQUIPMENT AND PIPING ON CEILING. SPACING BETWEEN DETECTORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS IN ANY CASE. ADDITIONAL DETECTORS SHALL BE PROVIDED IF NEEDED TO INSURE COMPLETE COVERAGE OF THE INDICATED SPACE.
- WHEN CONNECTING TO RANGEHOOD FIRE EXTINGUISHING SYSTEM, COORDINATE WITH SYSTEM INSTALLER TO PROVIDE A NORMALLY - OPEN AUXILIARY CONTACT TO CLOSE ON SYSTEM DISCHARGE FOR ALARM.
- FIRE ALARM SIGNALING DEVICES SHALL BE SEMI-FLUSH TYPE AUDIBLES WITH FLASHING LAMP MOUNTED ON SAME PLATE. SURFACE-MOUNTED UNITS MAY BE USED IN UNFINISHED AREAS.
- NO SMOKE DETECTORS SHALL BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.
- SMOKE EVACUATION FAN CONTACTORS (STARTERS) SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR.
- FIRE ALARM CONTRACTOR SHALL PROVIDE 100% BEAM TYPE SMOKE DETECTOR FOR ATRIUM.
- VERIFY THE FINAL ROOM NAME AND NUMBERING SCHEME USED FOR ANNUNCIATOR LEGENDS IS IN ACCORD WITH THE ACTUAL ROOM NAMES AND NUMBERS FINALLY CHOSEN BY THE OWNER.
- ALL ANNUNCIATOR LEGEND NUMBERING AND/OR ALPHANUMERC DISPLAY LEGENDS SHALL BE APPROVED BY THE ARCHITECT, OWNER, AND LOCAL FIRE DEPARTMENT AUTHORITY, AS APPLICABLE. SUBMIT THIS INFORMATION WITH SHOP DRAWINGS.
- A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.
- WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER AND CMTA AT CLOSE OF PROJECT.
- FIRE ALARM EXTENDER PANELS SHALL NOT BE LOCATED IN MDF OR IDF ROOMS. ONLY FIRE ALARM DEVICES SERVING MDF OR IDF ROOMS SHALL BE ALLOWED IN MDF OR IDF ROOMS.

3 FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE

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1231 E Payne St, Louisville, KY 40203
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MOVING FORWARD

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ELECTRICAL DETAILS AND SCHEDULES

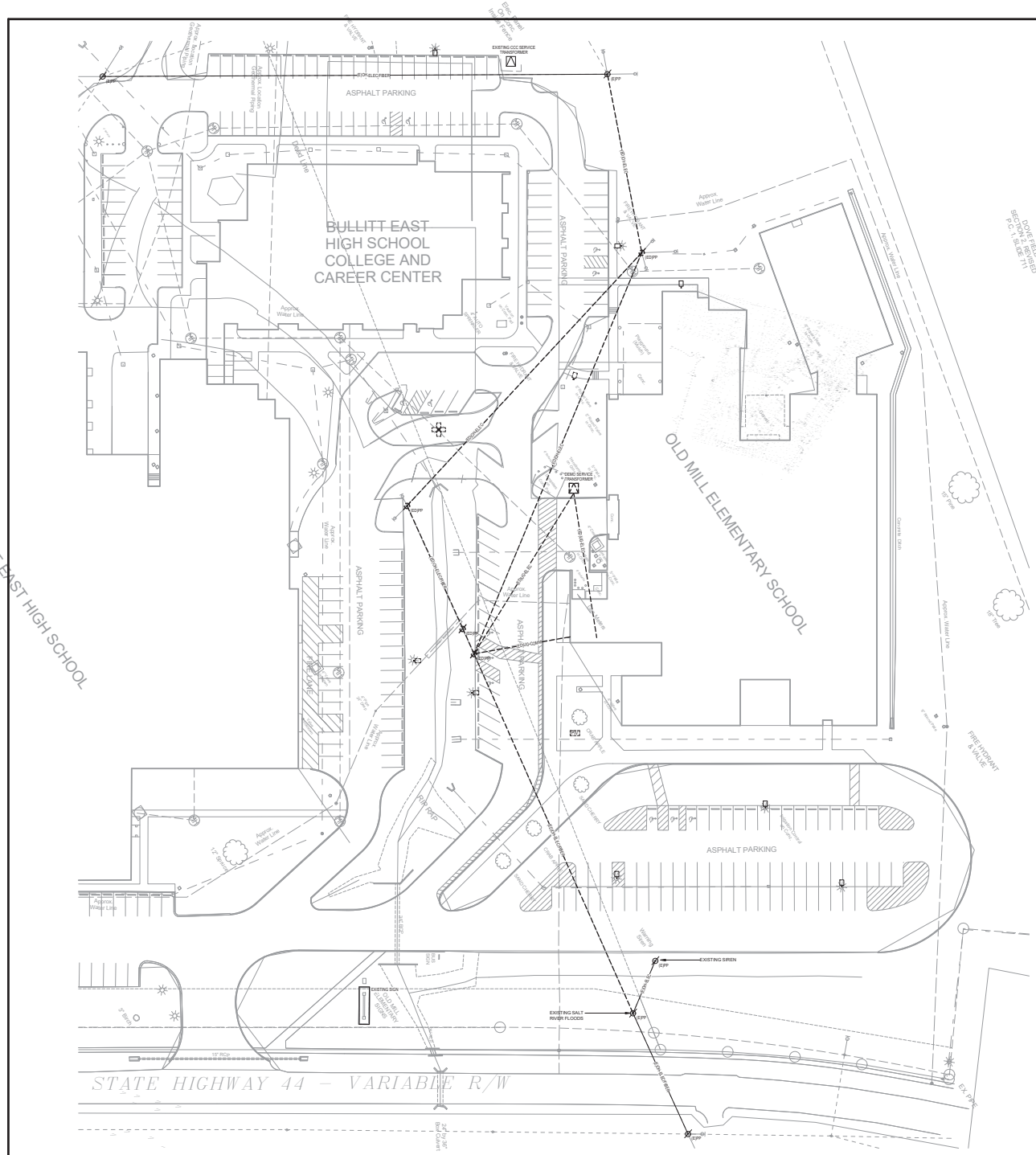
Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : CMTA
CHECKED BY : RJH
REVISIONS :

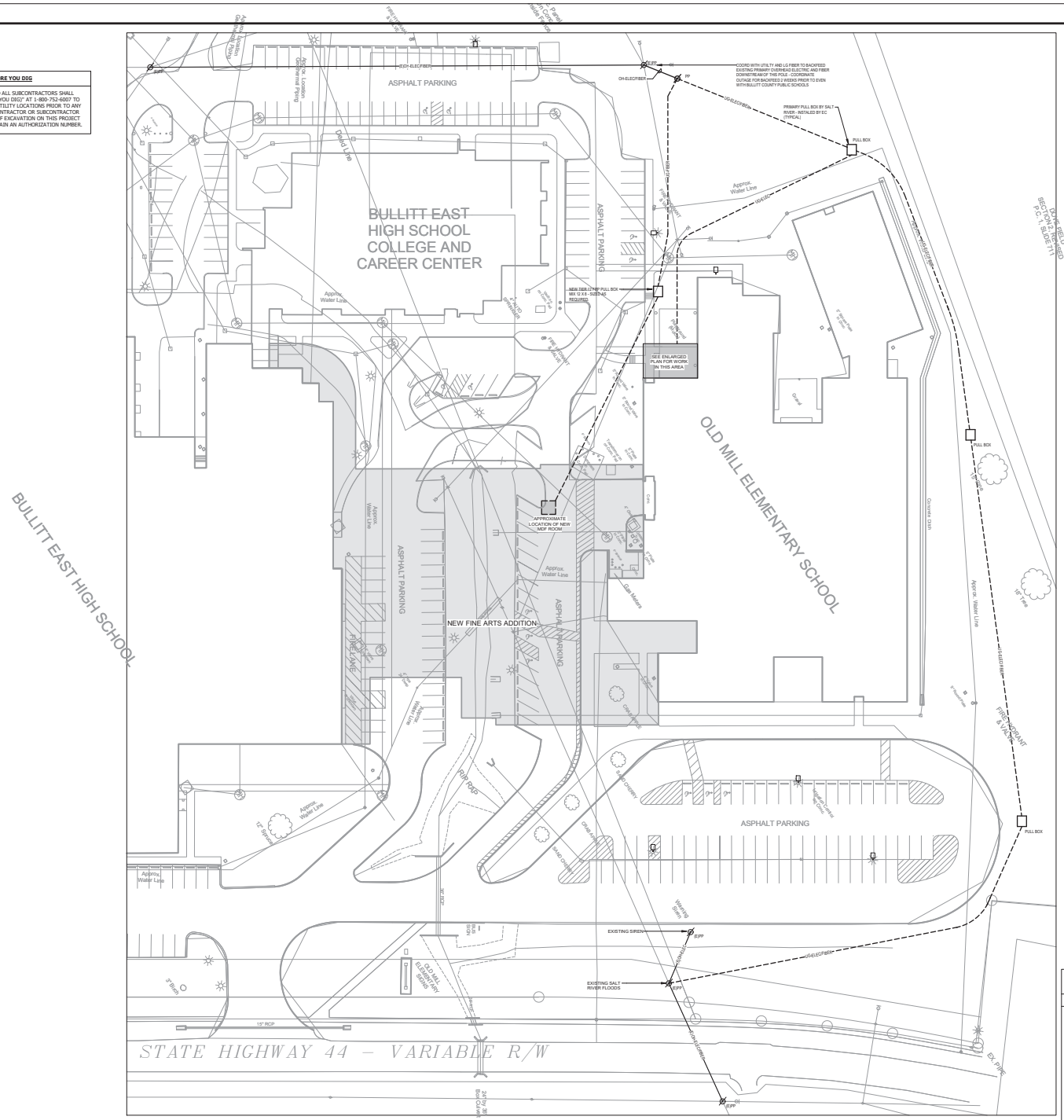
2022-35

E8.5


BULLITT EAST HIGH SCHOOL
COLLEGE AND
CAREER CENTER
OLD MILL ELEMENTARY SCHOOL
BULLITT EAST HIGH SCHOOL
ASPHALT PARKING
ASPHALT PARKING
ASPHALT PARKING
ASPHALT PARKING
ASPHALT PARKING
EXISTING CCC SERVICE TRANSFORMER
DEMO SERVICE TRANSFORMER
EXISTING SIREN
EXISTING SALT RIVER FLOODS
EXISTING SIGN
STATE HIGHWAY 44 – VARIABLE R/W
FIRE HYDRANT & VALVE
Approx Water Line
Approx Water Line
Approx Water Line

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 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.


BULLITT EAST HIGH SCHOOL COLLEGE AND CAREER CENTER
ASPHALT PARKING
OLD MILL ELEMENTARY SCHOOL
BULLITT EAST HIGH SCHOOL
NEW FINE ARTS ADDITION
APPROXIMATE LOCATION OF NEW MDF ROOM
SEE ENLARGED PLAN FOR WORK IN THIS AREA
NEW TBB 2-WAY PULL BOX MIN 12 X 8 - SIZE AS REQUIRED
PRIMARY PULL BOX BY SALT RIVER - INSTALLED BY EC (TYPICAL)
COORD WITH UTILITY AND CL FIBER TO BACKFEED EXISTING PRIMARY OVERHEAD ELECTRIC AND FIBER DOWNSTREAM OF THIS POLE - COORDINATE OUTAGE FOR BACKFEED 2 WEEKS PRIOR TO EVEN WITH BULLITT COUNTY PUBLIC SCHOOLS
PULL BOX
EXISTING SIREN
EXISTING SALT RIVER FLOODS
STATE HIGHWAY 44 – VARIABLE R/W
Approx. Water Line
Dead Line
Gas Meters
Dumpster Dish
Guard
Grass Chimney
Wheelchair Ramp
Walk Line
Bike Rack
Bus Stop
Bus Drop Off
Approx. Location Underground Piping
Approx. Location Overhead Piping
Approx. Location Gas Line
Fire Hydrant & Valve
Fire Hydrant
Fire Hydrant & Valve
Fire Hydrant & Valve
Fire Hydrant & Valve

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
INDICATES EMERGENCY POWER		EM
FLOOR BOX		FB
TEMPERATURE CONTROL PANEL		TCP
TELEVISION		TV
KITCHEN POINT OF SALE		PS
# OF DATA INDICATED NEXT TO THESE ABBREVIATIONS		XX
OVERHEAD PAGING		
CLASSROOM PAGING IP MODULE	8" ABOVE CEILING	O
DATA / VOICE		
DATA OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS (NO # INDICATES (2) DATA DROP	1'-6"	4D
DATA OUTLET: WALL MOUNTED VOICE DEVICE	48"	W
TOKEN RING DATA DEVICE AND CABLING TO BE REMOVED		TR
WIRELESS ACCESS POINT WITH PROVISIONS FOR (2) DATA OUTLETS FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH PANDUIT MINICOM SURFACE BOX TERMINATED ON CABLE ABOVE CEILING HUNG FROM J-HOOK NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 10' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. ADJUST OUTLET LOCATIONS AND COIL LENGTHS LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS. PROVIDE WITH 3'-0" FINAL PATCH CABLE.		WAP
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		TEL
AUDIO VISUAL		
TELEVISION INFO DISPLAY: DATA AT LOCATION INDICATED.	7'-0" OR AS INDICATED	TV P
TELEVISION LOCAL AV DISPLAY: DATA AND AV CONNECTION - REFER TO DETAIL	7'-0" OR AS INDICATED	TV TA
PROJECTOR (CEILING OR WALL)		P
SECURITY ACCESS CONTROL		
DOOR CONNECTION. PROVIDE DOOR CONTROL CABLING TO DOOR JUNCTION BOX FOR CONNECTION BY OWNER. REFER TO DETAIL.		D
OFOI S2 ACCESS CONTROL HEAD END CABINET. POWER SUPPLIES FOR DOORS ARE REMOTELEY MOUNTED AT DOOR	48"	S2-AC
SECURITY CCTV VIDEO SURVEILLANCE		
CCTV CAMERA: CEILING OR WALL		CC
LOCAL SOUND AND VIDEO		
AV ROUGH-IN - REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIRMENTS		XX
MEDIA CENTER SUSPENDED LOCAL SOUND SPEAKER		MS
MEDIA CENTER RECESSED LOCAL SOUND SPEAKER		MR
CAFETERIA SUSPENDED LOCAL SOUND SPEAKER		CS
GYM SOUND SPEAKER		GS
MEDIA CENTER SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	MS
CAFETERIA SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	CS
GYMNASIUM SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	GS

DESCRIPTION

SYSTEM RESPONSIBILITY MATRIX

SYSTEM	ITEM USED ON PROJECT	DEVICES - O F O I	DEVICES - C F C I	DEVICES - C F C I	CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - C F C I	CABLING/CONDUCTORS - C F C I	SYSTEM SYMBOL
SECURITY: ACCESS CONTROL	●	●					●	⬡
SECURITY: CCTV	●	●					●	⬡
TELEVISION	●	●					●	TV
LOCAL VIDEO	●			●			●	TV
DATA PROCESSING	●			●			●	▽
LOCAL SOUND	●			●			●	○

SYSTEM RESPONSIBILITY GENERAL NOTES:

1. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
2. BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS ARE TO BE PROVIDED IN THE GENERAL CONTRACT BID PACKAGE. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH AWARDED GENERAL CONTRACT BIDDER FOR ALL AV SYSTEMS PRIOR TO CONSTRUCTION.
3. ALL SYSTEMS REQUIRING CABINETS/TERMINAL BOARD LOCATIONS, ATTACHMENTS SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS. TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
4. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.
5. A PRECONSTRUCTION MEETING SHALL BE ARRANGED BY THE ELECTRICAL CONTRACTOR, GC, DIVISION 08 DOOR HARDWARE VENDOR, TECHNOLOGY CONTRACTOR (THIS BID PACKAGE) AND OWNER/ENGINEER FOR COORDINATION PRIOR TO INSTALLATION.

1 TECHNOLOGY LEGEND

NO SCALE

studio kremer architects
1231 S Shelby St, Louisville, KY 40203
t.s. 502.499.1100 f.x. 502.499.1101

studio

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TECHNOLOGY LEGEND

Bullitt East High School – Fine Arts Addition

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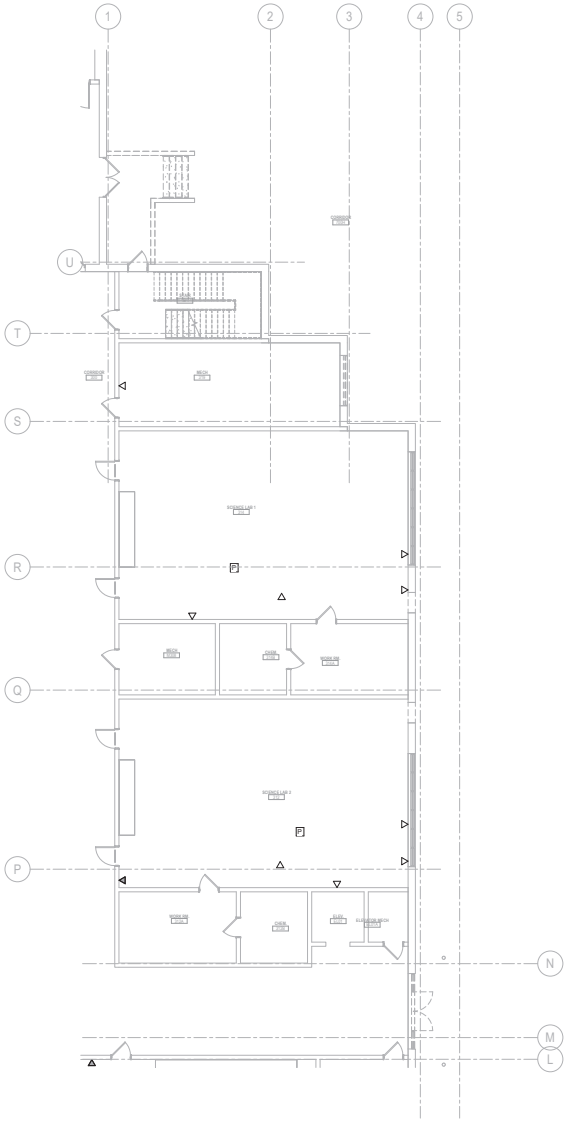
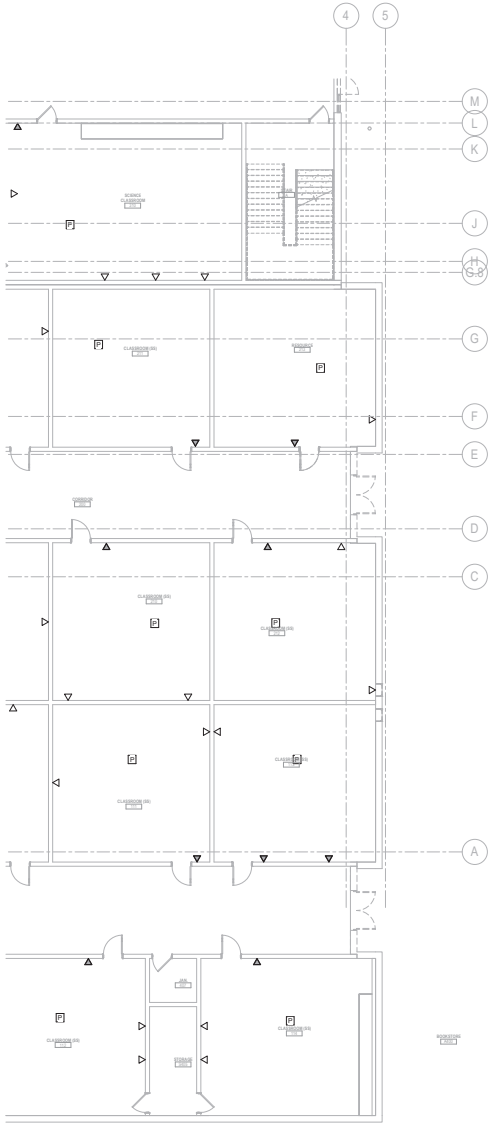


1 PARTIAL FIRST FLOOR TECHNOLOGY PLAN - AREA A1

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



2 PARTIAL FIRST FLOOR TECHNOLOGY PLAN - AREA A2

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

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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 (U.O.N.). 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. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW 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. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.

M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.

N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

O. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.

P. 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, DUCTWORK, PIPING, ETC TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. REPLACE LAMPS AND BATTERIES IN EMERGENCY FIXTURES. TEST BALLAST BEFORE REINSTALLATION TO ENSURE BALLAST OPERATION. EXTEND DUCTWORK AS REQUIRED. WHERE DEVICE IS A POWER RECEPTACLE, EXISTING CIRCUITING SHALL BE INTERCEPTED AND EXTENDED TO NEW TAMPER RESISTANT DEVICE INSTALLED IN NEW ROUGH-IN AND STUB-OUT.

Q. COORDINATE SALVAGE OF EXISTING EQUIPMENT WITH OWNER PRIOR TO DEMO. UNLESS REQESTED BY OWNER AFTER THIS MEETING, DISPOSE OF.

R. EXISTING CABLING SUPPORT PATHWAYS TO BE COMPLETELY REMOVED AT END OF PROJECT. WHERE TRAY IS REMOVED BEFORE ALL CABLING IS DEMOLISHED, CONTRACTOR SHALL SUPPORT EXISTING CABLING. MODIFY EXISTING PATHWAYS AS REQUIRED FOR NEW WORK OF ALL NEW TRADES.

S. EXISTING FIRE ALARM AND LOW VOLTAGE SYSTEMS AND CABLING TO REMAIN ONLINE UNTIL SYSTEMS ARE COMPLETELY REPLACED. REWORK EXISTING HEAD ENDS, CABLING, ETC. AS REQUIRED.

KEYNOTES:

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123 S Shelby St, Louisville, KY 40203
t.s.502.499.9100 | f.502.499.9101
studio

BOHNENKAMP & CO.
MECHANICAL ENGINEERING

100% DESIGN DEVELOPMENT

PARTIAL FIRST FLOOR – TECHNOLOGY DEMOLITION – AREA A

Bullitt East High School – Fine Arts Addition
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : RJH
REVISIONS :

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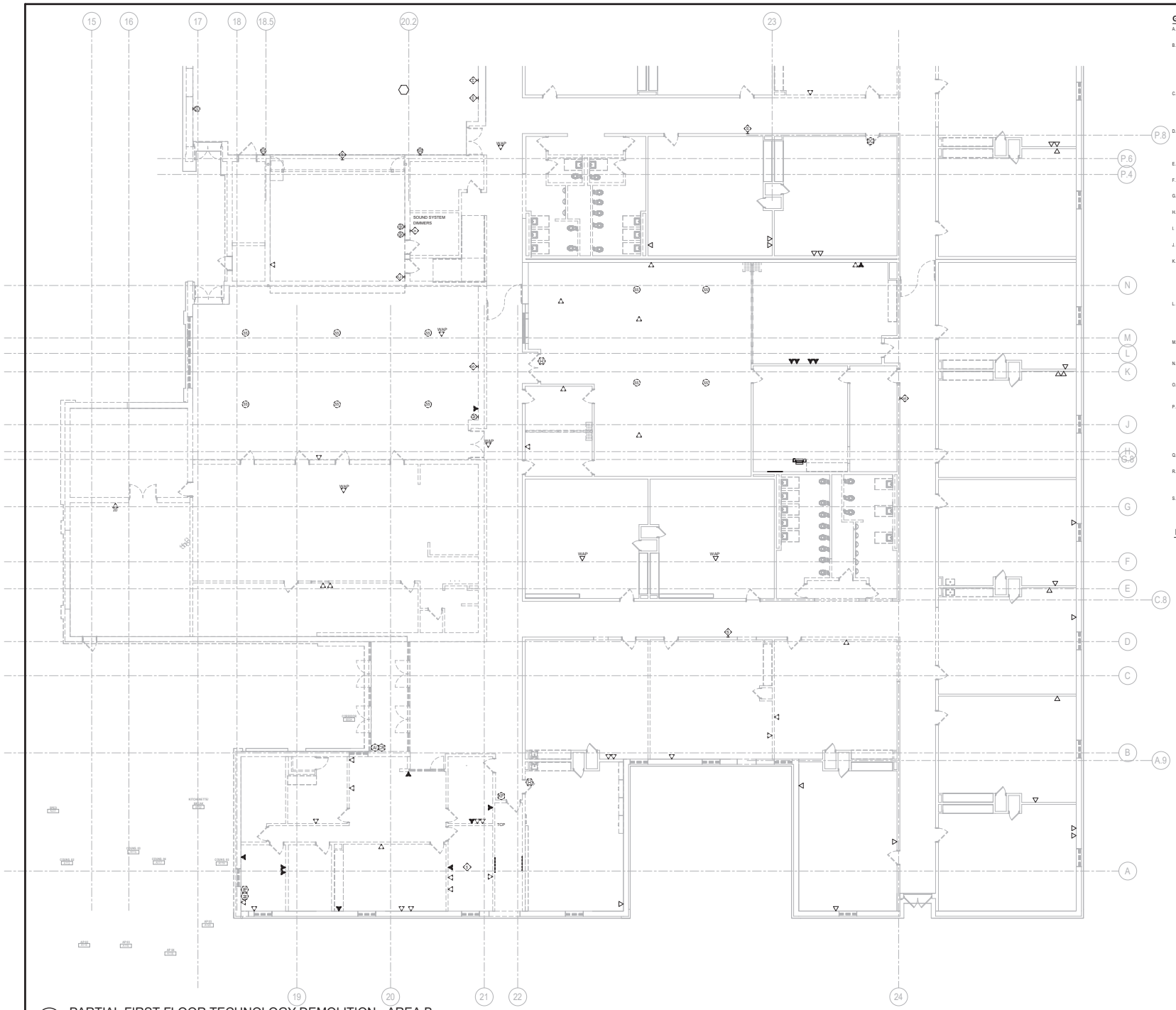

1 PARTIAL FIRST FLOOR TECHNOLOGY DEMOLITION - AREA B

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

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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 (U.O.N.). 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.

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M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.

N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

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studio

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100% DESIGN DEVELOPMENT

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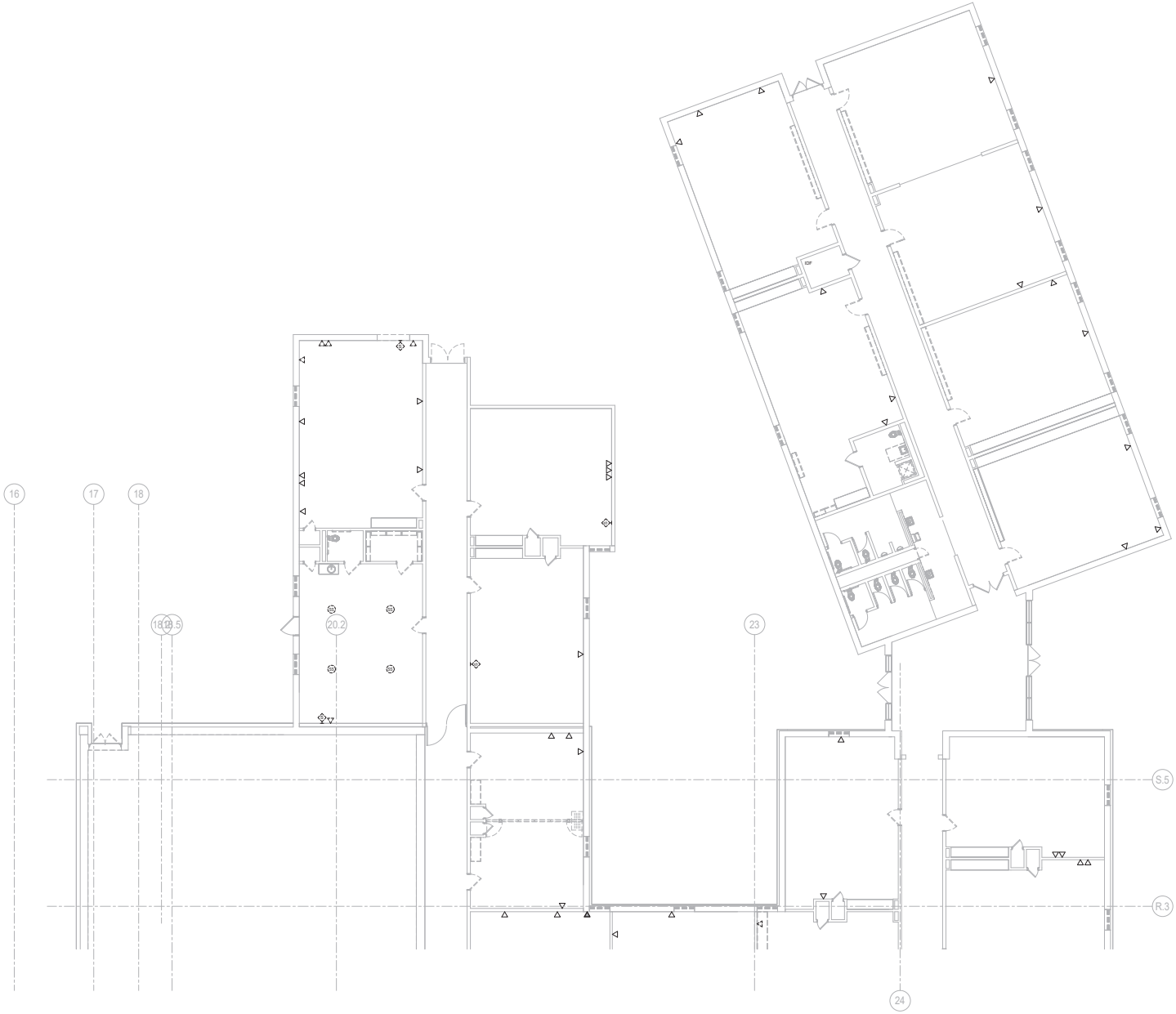
2022-35

T2.1B



1 PARTIAL FIRST FLOOR TECHNOLOGY DEMOLITION PLAN - AREA C

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

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) 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 (U.O.N.). 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. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW 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. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.

M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.

N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

O. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.

P. 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, DUCTWORK, PIPING, ETC TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. REPLACE LAMPS AND BATTERIES IN EMERGENCY FIXTURES. TEST BALLAST BEFORE REINSTALLATION TO ENSURE BALLAST OPERATION. EXTEND DUCTWORK AS REQUIRED. WHERE DEVICE IS A POWER RECEPTACLE, EXISTING CIRCUITING SHALL BE INTERCEPTED AND EXTENDED TO NEW TAMPER RESISTANT DEVICE INSTALLED IN NEW ROUGH-IN AND STUB-OUT.

Q. COORDINATE SALVAGE OF EXISTING EQUIPMENT WITH OWNER PRIOR TO DEMO. UNLESS REQESTED BY OWNER AFTER THIS MEETING, DISPOSE OF.

R. EXISTING CABLING SUPPORT PATHWAYS TO BE COMPLETELY REMOVED AT END OF PROJECT. WHERE TRAY IS REMOVED BEFORE ALL CABLING IS DEMOLISHED, CONTRACTOR SHALL SUPPORT EXISTING CABLING. MODIFY EXISTING PATHWAYS AS REQUIRED FOR NEW WORK OF ALL NEW TRADES.

S. EXISTING FIRE ALARM AND LOW VOLTAGE SYSTEMS AND CABLING TO REMAIN ONLINE UNTIL SYSTEMS ARE COMPLETELY REPLACED. REWORK EXISTING HEAD ENDS, CABLING, ETC. AS REQUIRED.

KEYNOTES:

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MOMENTUM FORWARD

100% DESIGN DEVELOPMENT

PARTIAL FIRST FLOOR - TECHNOLOGY DEMOLITION - AREA C

Bullitt East High School - Fine Arts Addition

11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

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REVISIONS :

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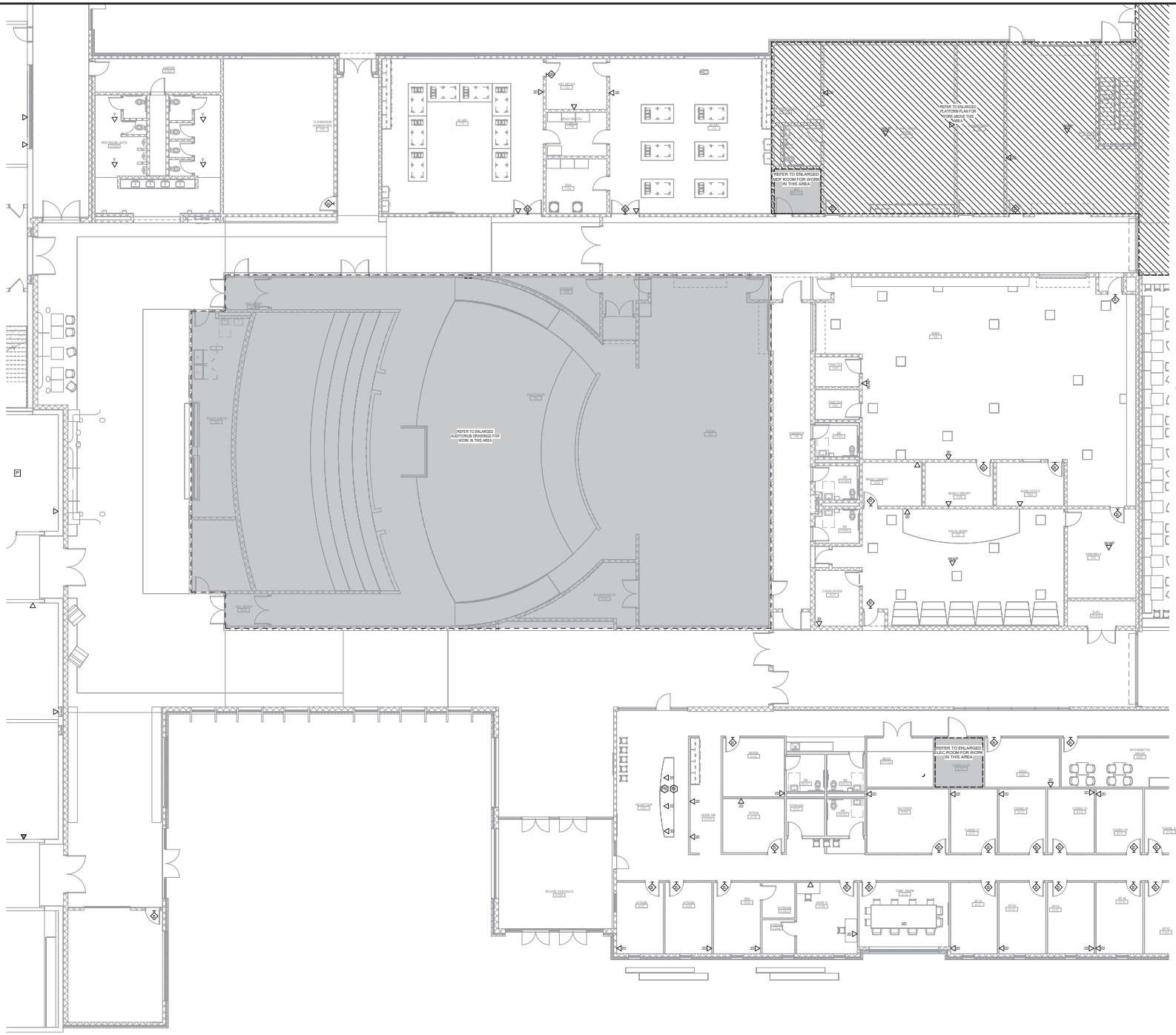
T2.1C



GENERAL NOTES (POWER/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.

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.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. 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.

H. 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.

I. CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

J. DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

K. ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:

1 PARTIAL FIRST FLOOR TECHNOLOGY PLAN - AREA A

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

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BG FORWARD

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TECHNOLOGY PLAN – AREA A

Bullitt East High School – Fine Arts Addition
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Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
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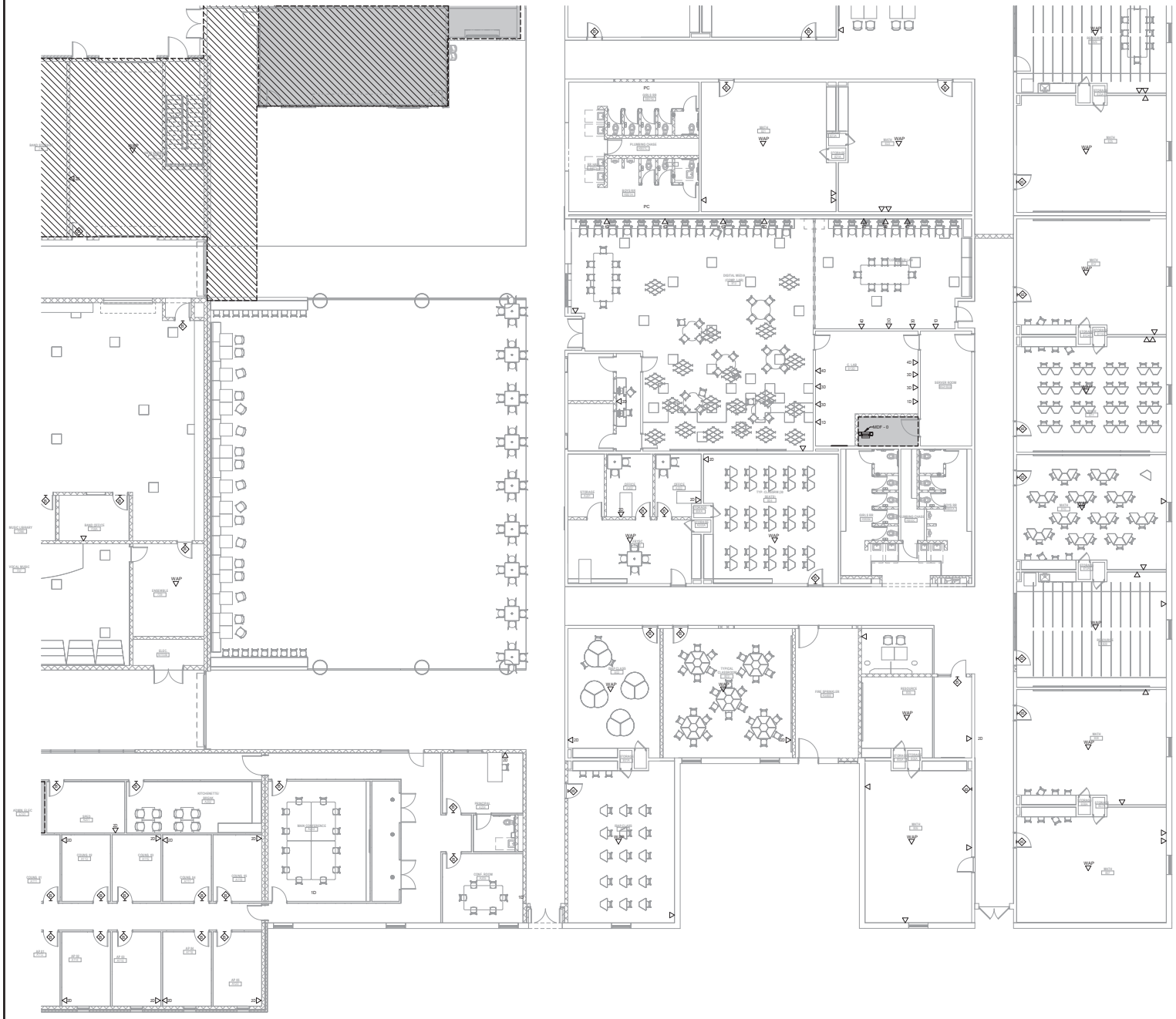
REVISIONS :

2022-35

T3.1A



1 PARTIAL FIRST FLOOR TECHNOLOGY PLAN - AREA B

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

GENERAL NOTES (POWER/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.

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.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. 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.

H. 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.

I. CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT. CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

J. DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

K. ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:

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TECHNOLOGY PLAN - AREA B

Bullitt East High School - Fine Arts Addition

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BG# 23-050

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CHECKED BY : RJH
REVISIONS :

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T3.1B

1 PARTIAL FIRST FLOOR TECHNOLOGY PLAN - AREA C1

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

GENERAL NOTES (POWER/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.

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.

F. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

G. 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.

H. 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.

I. CCTV DEVICE ROUGH-INS AT EXTERIOR WALL ARE TO BE NIPPLES WITH LENGTH OF RACEWAY AS REQUIRED CUT FLUSH WITH EXTERIOR WALL TO ALLOW FOR OWNER TO MOUNT CCTV CAMERA OVER CONDUIT. CONDUIT TO BE SUPPORT BY INTERIOR JUNCTION BOX FASTENED TO BUILDING. PENETRATION AND CONDUIT SHALL BE WEATHER SEALED.

J. DEVICE ELEVATIONS ARE TO BE CONFIRMED PRIOR TO ROUGH-IN.

K. ALL ELECTRIC WATER COOLERS (EWC'S) TO BE PROVIDED WITH A GFCI TYPE CIRCUIT BREAKER.

KEYNOTES:

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TECHNOLOGY PLAN - AREA C1

Bullitt East High School - Fine Arts Addition
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BG# 23-050

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DRAWN BY : Author
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T3.1C1

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.

B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).

C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

D. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

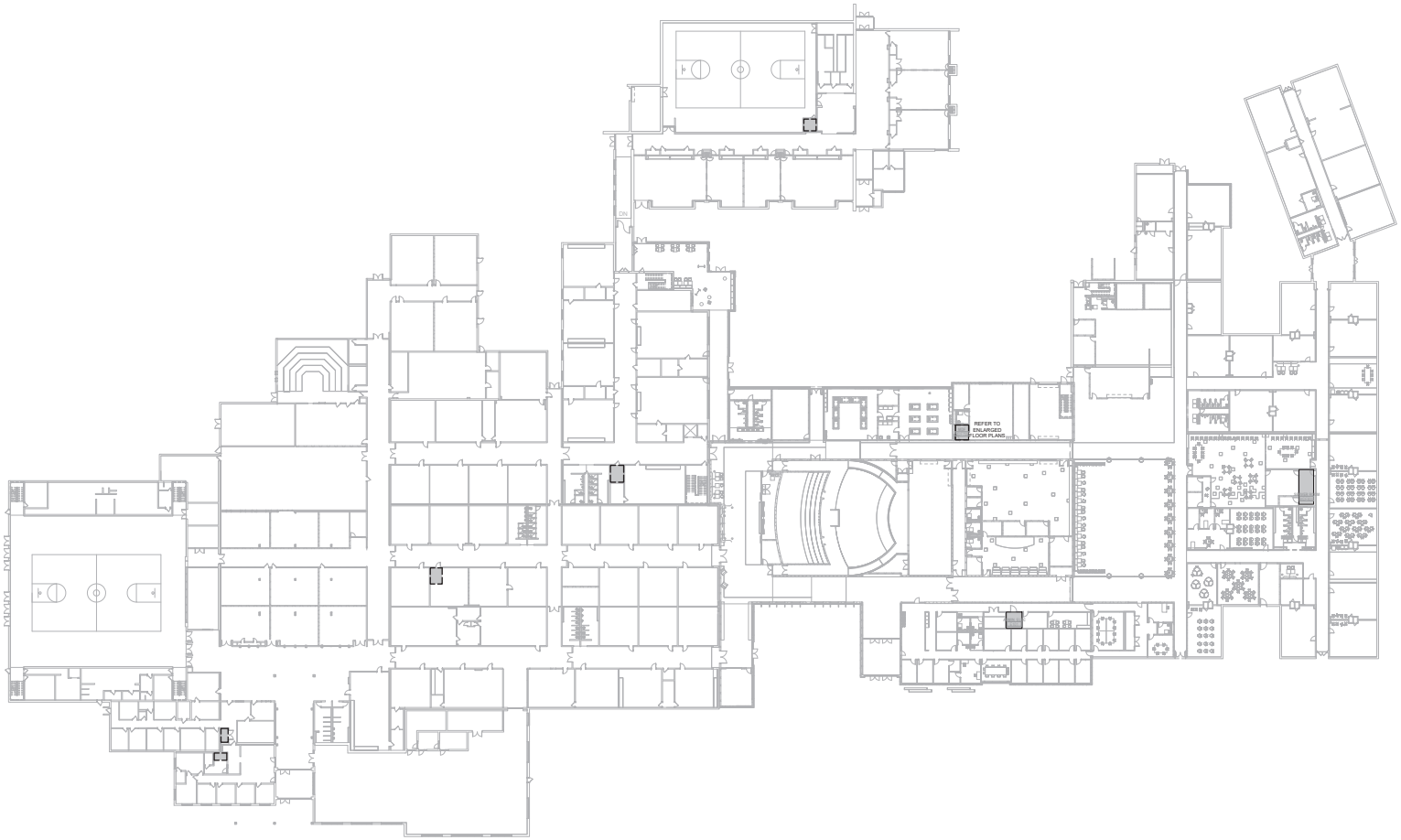
E. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.

F. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.

G. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.

H. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

KEYNOTES:



1 FIRST FLOOR INTERCONNECTION PLAN - TECHNOLOGY

SCALE: 1" = 30'-0"

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OVERALL FLOOR PLAN – LOW VOLTAGE INTERCONNECTION

Bullitt East High School – Fine Arts Addition

11450 KY-44
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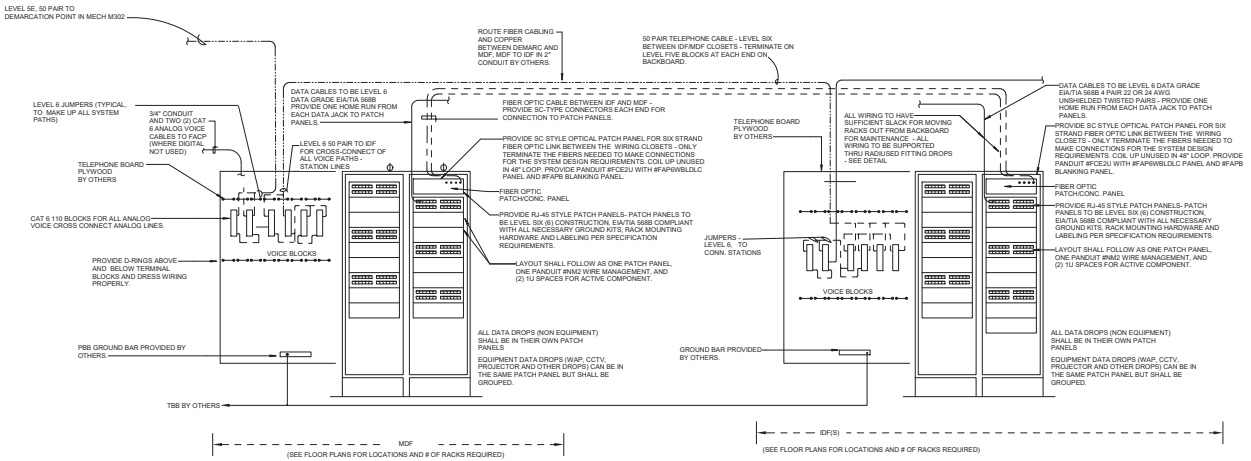
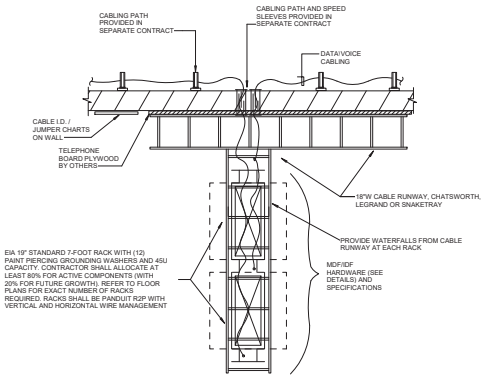


DATA SYSTEM SCHEMATIC NOTES :

- PANDUIT COMPANY PRODUCTS SHALL BE USED FOR PUNCH-DOWN BLOCKS, PATCH PANELS, LEVEL 6 6 CONNECTORS, ETC. - NO SUBSTITUTIONS UNLESS ACCEPTED BY OWNER AND ENGINEER. REFER TO SPECIFICATIONS.
- ALL MULTIPAIR CABLES SHALL BE LEVEL 5E. IF MORE THAN 25 PAIR, USE MULTIPLE 25 PAIR CABLES AS REQUIRED.
- CONTRACTOR SHALL PROVIDE (2) FULL SIZE SETS OF "TECHNOLOGY" DRAWINGS CONTAINING ALL LABELLED DATA/VOICE OUTLET LOCATIONS WITH "SOFT" COPY IN 1/8" SCALE AUTOCAD DRAWINGS TO BE GIVEN TO OWNER.
- REFER TO FLOOR PLANS FOR RACK LAYOUTS IN INDIVIDUAL CLOSETS.
- NUMBERING AND LABELING TO BE PER FINAL ROOM NUMBERS, NOT ROOM NUMBERS INCLUDED IN DRAWINGS.
- CONTRACTOR SHALL COORDINATE WITH OWNER BEFORE FINAL PLACEMENT OF MDF/IDF RACKS

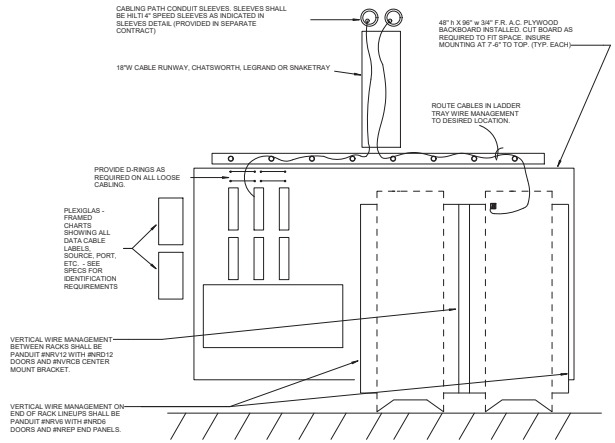
1 DISTRIBUTION FRAME INTERCONNECTION AND SCHEMATIC LAYOUT

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



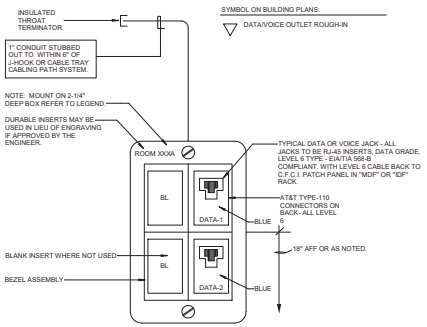
2 DISTRIBUTION FRAME PLAN VIEW DETAIL

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



3 DISTRIBUTION FRAME ELEVATION VIEW DETAIL

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



4 DATA WALLPLATE DETAIL

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

CATEGORY CABLE SYMBOLS ON BUILDING PLANS:

- DATA AND/OR VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF CAT6 DATA/VOICE JACKS TO INSTALL. IF NO NUMBER IS INDICATED, THERE SHALL BE TWO DATA JACKS PER SPECIFICATIONS.
- P — PROJECTOR OUTLET (1) CAT6 DATA CONNECTION PER SPECIFICATIONS. PROVIDE WITH 10'-0" SERVICE LOOP ON J-HOOK ABOVE ACCESSIBLE CEILING.
- W or PHONE — VOICE WALL TELEPHONE OUTLET. PROVIDE (1) VOICE WALL JACK AND PLATE AS REQUIRED PER SPECIFICATIONS.
- WAP — WIRELESS ACCESS POINT. PROVIDE (2) CAT 6A DATA CABLES WITH 15'-0" SERVICE LOOP ABOVE CEILING ON J-HOOK TERMINATED ON PANDUIT MINI COM BOX WITH RJ45 JACK. FINAL PLACEMENT OF SURFACE OUTLET AND ACCESS POINT TO BE PROVIDED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR PATCH CABLE FROM ACCESS POINT TO DATA DROP AND DATA DROP BISCUIT BOX INSTALLATION ABOVE CEILING.
- CC — CCTV IP SECURITY CAMERA: PROVIDE (1) CAT5A DATA CABLING WITH 15'-0" SERVICE LOOP ABOVE CEILING ON J-HOOK TERMIANTED ON A MINI COM BOX. FINAL PLACEMENT OF DEVICE TO BE PROVIDED BY OWNER.
- B — INTERCOM CLASSROOM MODULE AND ZONE MODULES. PROVIDE (1) CAT6 DATA CABLE FOR INTERCOM SYSTEM. PROVIDE 15'-0" SERVICE LOOP ON J-HOOK LOCATED ON WALL.
- WALL MOUNTED TELEVISION OR AV EQUIPENT. PROVIDE 1D DATA JACK IN 1G BOX AS INDICATED ON FLOOR PLANS.
- IR — ACCESS CONTROL VIDEO DOORBELL DOOR STATION. PROVIDE 1D DATA JACK TO EQUIPMENT.
- IM — ACCESS CONTROL VIDEO DOORBELL DESK STATION. PROVIDE 1D DATA JACK TO EQUIPMENT.

5 CATEGORY CABLE SYMBOLS ON PLANS

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

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t.o. 502.499.1100 f. 502.499.1101

100% DESIGN DEVELOPMENT

ELECTRICAL TECHNOLOGY DETAILS

Bullitt East High School – Fine Arts Addition

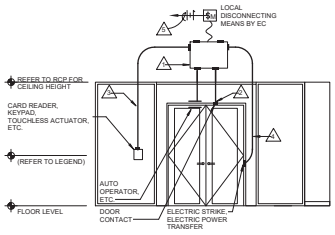
11450 KY-44
Mt. Washington, KY 40047

BG# 23-050

DATE : 07/24/2023
DRAWN BY : Author
CHECKED BY : RJH
REVISIONS :

2022-35

T4.0



ACCESS CONTROL SYSTEM (GENERAL NOTES)

A PRECONSTRUCTION MEETING SHALL BE ARRANGED BY THE ELECTRICAL CONTRACTOR, GC, DIVISION 08 DOOR HARDWARE VENDOR AND OWNER/ENGINEER FOR COORDINATION PRIOR TO ANY INSTALLATION OF FRAMES OR ROUGH-INS THAT CONTAIN ANY LOW VOLTAGE INTEGRATION.

NO FRAMES OR ROUGH-INS ARE TO BE INSTALLED PRIOR TO THIS MEETING AND WHERE INSTALLATION OCCURS PRIOR TO THIS MEETING, ALL INSTALLATION WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. NO EXCEPTIONS.

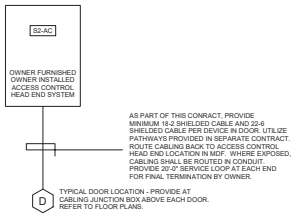
NOT ALL DEVICES INDICATED ARE REQUIRED - REFER TO DOOR HARDWARE SPECS

ACCESS CONTROL SYSTEM (TAGGED NOTES)

1. DOOR POWER SUPPLY BY OWNER AND DOOR INTERCONNECTION JUNCTION BOX ABOVE DOOR BY OTHERS. REFER TO DOOR HARDWARE SPECIFICATIONS AND FLOOR PLANS.
2. FRAME STUBOUT BY OTHERS.
3. DOOR OPERATOR SUBOUT BY OTHERS.
4. FRAME STUBOUT BY OTHERS.
5. DOOR POWER SUPPLY POWER CONNECTION BY OTHERS.

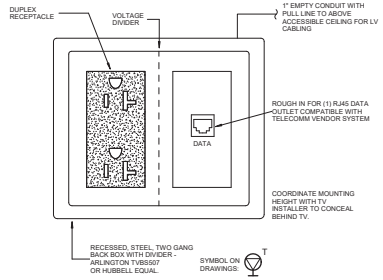
1 TYPICAL ACCESS CONTROLLED DOOR DETAIL

NO SCALE



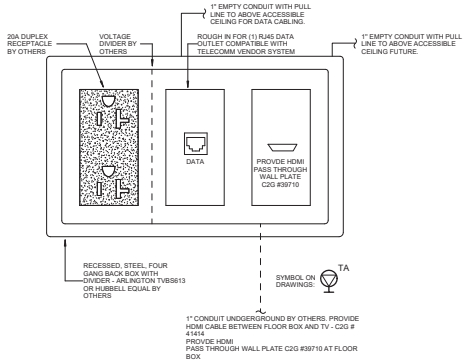
2 ACCESS CONTROL CABLING DETAIL

NO SCALE



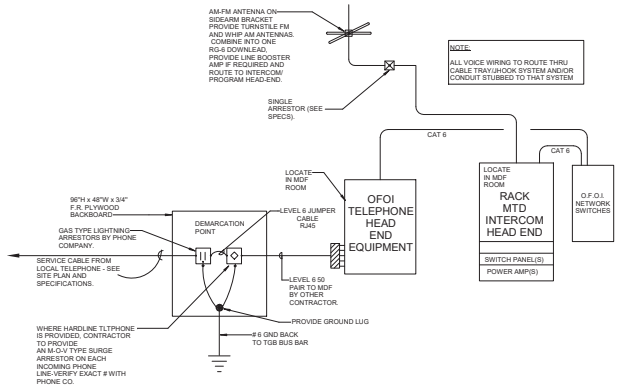
3 TELEVISION OUTLET DETAIL

NO SCALE



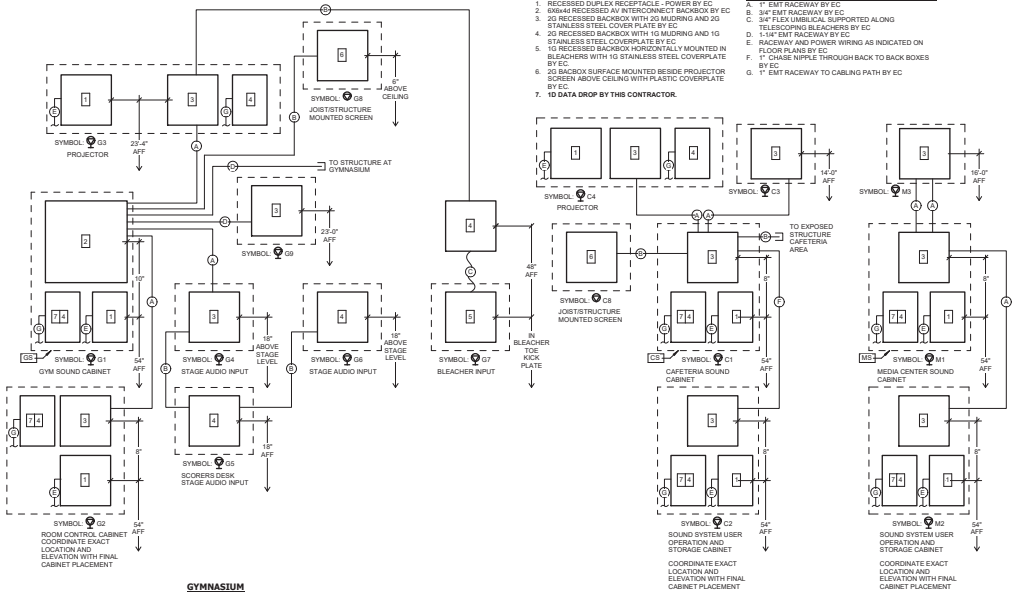
4 TELEVISION OUTLET DETAIL WITH AV ROUGH-IN

NO SCALE



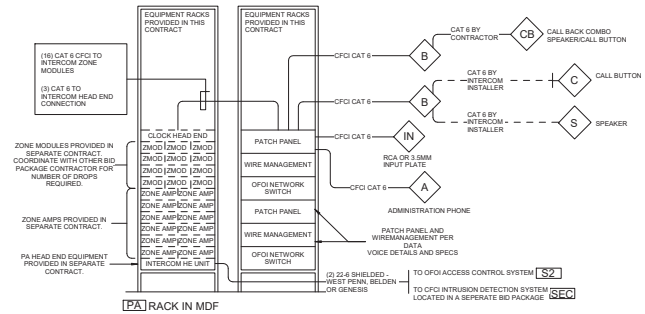
6 TELEPHONE PAGING CLOCK INTERCONNECTION SCHEMATIC

NO SCALE



5 AV EQUIPMENT INTERCONNECTION

NO SCALE



7 PAGING SYSTEM INTERCONNECTION DETAIL

NO SCALE

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Bullitt East High School – Fine Arts Addition
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T4.1

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

District Name: Bullitt County | District Code: 71 | Facility Name: Bullitt East High School | School Code:

Project Name: Bullitt East High School - Fine Arts Addition

PROJECT TYPE:

	Yes	No	Gross Building Area (sf.)
New Building	☐	☑	
Addition	☑	☐	45,614
Renovation	☑	☐	57,896

Provisions for Future Expansion:

Proposed Alternates:
(1) Owner preferred Equipment for: Door Hardware, Kitchen Equipment, Intercom, Clock and Plumbing Fixtures
(2) Fire Alarm
(3) Site Work in the Right of Way at Hwy 44

Describe special conditions, phasing of project and alternates, attach a supplemental sheet, if needed.
Elementary school is being renovated to accommodate Bullitt East - school is currently not occupied.

BUILDING CONSTRUCTION CHARACTERISTICS:

Description of Building Structure:

Foundation: Additions will have new cast-in-place, shallow spread footings.

Exterior Walls: The additions will be a combination of load bearing CMU block and steel columns with masonry veneer and metal panel.

Roof Structure: Steel bar joists with metal roof deck.

ENERGY EFFICIENT DESIGN (KRS 157.450 and KRS 157.455):

40 Energy Consumption "Existing" (kBtu/sf/yr)

28 Energy Consumption Target (kBtu/sf/yr)

YES	NO	
☐	☑	LEED Certified — Other:
☑	☐	Designed to meet Energy Star
☑	☐	Exceeds ASHRAE 90.1(2007) by 10% (Minimum)
☐	☑	Whole Building Life Cycle Cost Analysis Demonstrating Cost Effective Design

Life Cycle Cost Analysis Software Used:

If not yes to one or more of the above, explain why. School district does not wish to pursue LEED.

☐	☑	Designed to be Net-Zero
☐	☑	Designed to be Net-Zero Ready

Energy Efficient Design Features: (See List Page 4, or Use Drop Down List)

East / West Building Orientation ☐ YES ☑ NO

Gross Exterior Wall Area (sf): 22,000 at Addition — Avg. Exterior Wall R-Value: 20

Gross Window / Door Area (sf): 6,500 — Avg. Window/Door R-Value: 3.13

Gross Roof Area (sf): 47,000 at Addition | 57,000 at Renovation — Avg. Roof R-Value: 30

Exterior Wall Type:	A - face brick, captured air space, board insulation and waterproof CMU	Other:	
Roofing Type:	A - modified bitumen over rigid insulation	Other:	
HVAC System Type:	C - ground source heat pump system with air make up	Other:	
Classroom Lighting:	E - other	Other:	LED - Dimmable
Active Daylighting:	B - occupancy light control sensors	Other:	
Passive Daylighting:	G - none	Other:	
On Site Energy Generation:	F - other	Other:	Geothermal

Air Purification Systems : YES ☑ NO ☐

Gray Water System : YES ☐ NO ☑

Low Water Use Fixtures : YES ☐ NO ☑

Other: Bi-Polar Ionization

PLUMBING:

Type of Sewage Disposal: Municipal (Sewer Department - City of Mt Washington)

HEATING, VENTILATION AND AIR CONDITIONING:

Heating Only:_____ Heating & Mechanical: Ventilation Only _____ HVAC: X A/C Only: _____

Fuel Source/Backup (if applicable): N/A

ELECTRICAL:

Source of Electric Power: Salt River Electric

Voltage Serving Facility: 208V/3PH/4WIRE

Number of Convenience Outlets:

Classrooms	8
Library/Media Center	N/A
Business Ed	8
Family & Consumer Science	N/A

Camera System: IP Based

Lighting Intensity (fc.):

Std. Classrooms	50
Library/Media Ctr	N/A
Science Lab	N/A
Science Clrm	N/A
Band/Music	75
Business Ed	50
Shops	N/A
Corridors	30
Stairways	20
Cafeteria	50
Pre-School Clrm	75
Art Classroom	100
Gymnasium	N/A

SPECIAL EQUIPMENT:

System	Conduit Only	Conduit & Wiring	Complete with Equipment
Bell		Intercom, yes	Yes
Clock		Yes	Yes
Fire Alarm		Yes	Yes
Intercom		Yes	Yes
Telephone		IP Yes	Equip. By Owner
Television		IP Yes	Equip. By Owner
Computer		Yes	Equip. By Owner
Wireless Network		Touch Screen Monitor, Yes	Equip. By Owner
Interactive White bd		Yes	Equip. By Owner
Voice Amplification		Yes	Equip. By Owner

FIXED EQUIPMENT:

Teacher Cabinet	No	Custodial Room Shelves	No
Student Lockers	No	Science Laboratories	N/A
Folding Bleachers	No	Family & Consumer Sci	N/A
Library Furnishings	No	Other	
Dry Food Shelves	Yes	Other	

INTERIOR FINISH SCHEDULE:

AREA	FLOOR	WAINSCOT	WALLS	CEILING
General Office	LVT		paint	act
Corridors	Epoxy Flooring		paint	act
Custodial	sealed concrete		paint	open to structure
Kitchen	quarry tile		paint	act
Cafeteria	Epoxy Flooring		paint	act
Gym	N/A			
Showers/Locker	N/A			
Toilets	ceramic tile		paint	act
Library/Media Cntr	N/A			
Classrooms	LVT		paint	act
Music	LVT		paint	act
Art	sealed concrete		paint	open to structure
Science	N/A			
FMD	N/A			
OTHER AREAS				
Auditorium	carpet/sealed conc.		paint	sound pansle/open to structure

Miscellaneous Project Specific Features:

Kentucky Registered Architect: Catherine N. Ward Signature Date: 7-13-2023

Kentucky Registered Engineer: Jeremy Lewis Signature Date: 7-13-2023

Board Designee or Superintendent: Signature Date:

Energy Efficient Design Features Lists

Exterior Wall Type
A - face brick, captured air space, board insulation and waterproof CMU
B - face brick, captured air space, sprayed insulation on CMU
C - face brick, captured air space, sheathing over metal insulated stud system, interior finish system
D - face brick, ICF poured concrete, interior finish system
E - other, describe

Roofing Type List
A - modified bitumen over rigid insulation
B - EPDM over rigid insulation
C - plastic single ply over rigid insulation
D - metal roofing over nailable deck with insulation
E - asphalt shingle roofing over nailable deck with insulation
F - other, describe

HVAC System Type List
A - two pipe unit ventilator system
B - water source heat pump system with air make up
C - ground source heat pump system with air make up
D - hybrid water source heat pump system with boiler/chiller and well field with air make up
E - variable refrigerant flow (VRF) with air make up
F - hybrid geothermal/variable refrigerant flow (VRF) with air make up
G - variable refrigerant volume (VRV) with air make up
H - hybrid geothermal/variable refrigerant volume (VRV) with air make up
I - chilled beam system
J - hybrid chilled beam/geothermal system
L - other

Classroom Lighting List
A - T8 fluorescent fixtures
B - T5 fluorescent fixtures
C - high energy gas fixtures
D - low voltage systems
E - other

Active Daylight System List
A - classroom fluorescent dimming including dimming switches, ballasts and sensors
B - occupancy light control sensors
C - remote sensor bi-level lighting with no fixtures dimming
D - manual bi-level lighting with no fixture dimming
E - other
F - none

Passive Daylight Systems List
A - upper classroom clerestory lighting with sloped ceiling plane
B - lower classroom clerestory lighting that does NOT require sloping the ceiling place
C - exterior light shelves
D - solar tubes without dimming
E - solar tubes with internal dimmers
F - other
G - none

On Site Energy Generation List
A - solar water heating
B - solar electric generation (small units for demonstration or for limited areas)
C - solar electric generation (to support the entire building's energy needs)
D - wind generation (small units for demonstration or for limited areas)
E - wind generation (to support the entire building's energy needs)
F - other
G - none

KENTUCKY DEPARTMENT OF EDUCATION
702 KAR 4:160

BG-3
STATEMENT OF PROBABLE COST

District Name: Bullitt County | District Code: 71 | Facility Name: Bullitt East High School | School Code:

Project Name: Renovations at Bernheim Middle School

Project Phase: **Design Development:** ☑ **Construction Documents:** ☐

1.	Site Development	$ 2,293,000.00	
2.	General Construction	$ 21,155,000.00	
3.	Heating, Ventilation & Air Conditioning	$ 6,642,000.00	
4.	Plumbing (Include Sprinkler System)	$ 2,220,000.00	
5.	Electrical Work	$ 5,820,000.00	
6.	Sewage Disposal System	$ *Included in Plumbing Line Item*	
7.	Total Construction Cost (1-6)		$ 38,130,000.00
8.	Site Acquisition Cost (Purchase Price)	$ 0.00	
9.	Legal Services	$ 33,762.20	
10.	Fiscal Agent Fee	$ 206,795.30	
11.	Bond Discount	$ 913,300.00	
12.	Architect/Engineer Fee	$ 2,144,812.50	
13.	Construction/Manager Fee (if Applicable)	$	
14.	Equipment/Furnishings (Not Fixed)/Computers	$ 1,900,000.00	
15.	Property & Topographic Survey	$ 9,600.00	
16.	Geotechnical Survey & Report	$ 9,700.00	
17.	Special Inspections	$ 125,000.00	
18.	Asbestos Abatement	$ 60,000.00	
19.	Commissioning Fee	$ 80,000.00	
20.	Plan Review Fee	$ 15,530.00	
21.	Printing & Distribution of Bid Docs	$ 20,000.00	
22.	Contingencies - Minimum 5% of Line 7	$ 1,906,500.00	
23.	Moving Supplies/Storage Pod	$ 50,000.00	
24.	Test and Balance	$ 50,000.00	
25.	Abatement Spec/Monitoring	$ 10,000.00	
26.	Total Other Cost (8-23)		$ 7,535,000.00
26.	**TOTAL PROJECT COST (line 7 + line 24)**		$ 45,665,000.00

a. Gross Square Foot Area* 103,510
b. Total Cost Per Square Foot $441.17
c. Total Cost Per Pupil (2000 Students) $22,832.50
d. Gross Sq. Ft. Area of Alternates n/a
* Base Bid Area Only

Kentucky Registered Architect/Engineer: Catherine N. Ward Date: 7/12/2023

Construction Manager: n/a Date:

Board of Education Designee: Date: