# Estill Springs Elementary ARP ESSER Phase 2 Renovation & Addition
# Irvine, Kentucky

for the

## Estill County Board of Education

253 Main Street, Irvine, Kentucky 40336
p 606.723.2181

BG # 22-207
RTA # 2148

rosstarrant architects

101 old lafayette avenue
lexington, kentucky 40502
p 859.254.4018
www.rosstarrant.com

# enhancing education through great design

STRUCTURAL ENGINEER: STRUCTURAL DESIGN GROUP, INC.
220 Great Circle Road, Suite 106 Nashville, Tennessee 37228
p 615.255.5537

M.E.P. ENGINEER: STAGGS & FISHER
3264 Lochness Drive Lexington, Kentucky 40517
p 859.271.3246

HARDWARE CONSULTANT: CALVERT INDEPENDENT HARDWARE SPECIFICATIONS, LLC
307 Oakwood Circle Vine Grove, Kentucky 40175
p 502.930.2039

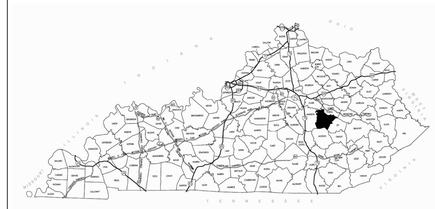
CONSTRUCTION MANAGER: CODELL CONSTRUCTION COMPANY
4475 Rockwell Rd. Winchester, Kentucky 40391
p 859.744.2222

PROJECT SITE ADDRESS:

314 Main St.
Irvine, KY 40336

VICINITY MAP

PROJECT VICINITY MAP

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COVER SHEET
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Codell Construction Co.
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BG# 22-207

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| Project No: | 2148 |
| Drawn By: | KM |
| Rev'd By: | JR |

SHEET RELEASE

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DESIGN DEVELOPMENT

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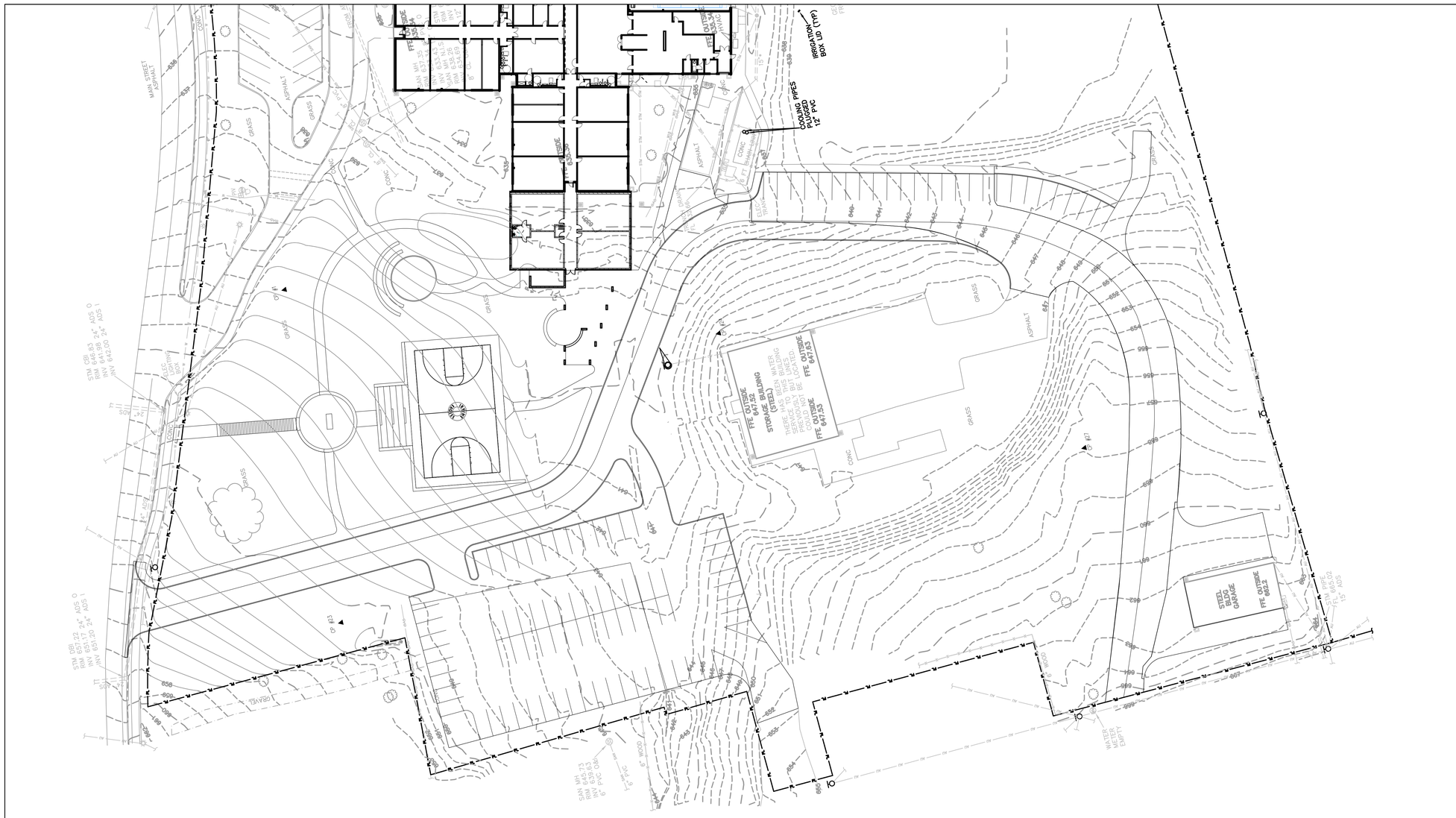
COVER SHEET

DATE ISSUED:
FEBRUARY 22, 2022




## SITE EROSION POLLUTION AND SEDIMENT CONTROL PLAN

SCALE : 1"=30'

E / SD0.1

## GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY S&ME 2020 LIBERTY ROAD SUITE 105 LEXINGTON KY 405105. REFER TO SITE SURVEY SHEETS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON THIS SHEET FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
6. REFER TO CONSTRUCTION MANAGER'S PLANS AND SPECIFICATIONS FOR INFORMATION REGARDING CONSTRUCTION SCHEDULE/SEQUENCING, CONSTRUCTION FENCING/STAGING, AND LEED SPECIFIC REQUIREMENTS.

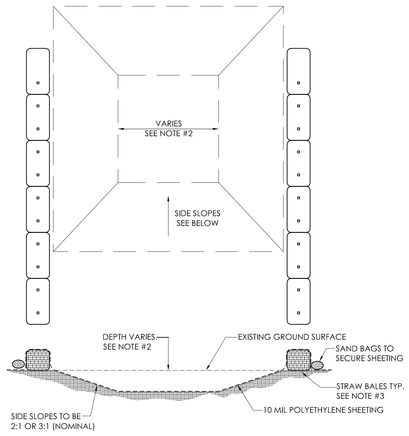
## SITE BMP NOTES

1. CONTRACTOR IS TO PROVIDE ALL KPDES PERMITS, NOTICES OF INTENT (NOI'S) AND NOTICES OF TERMINATION INCLUDING EROSION AND SEDIMENT CONTROL PLANS FOR ALL PHASES OF CONSTRUCTION. ALL KPDES AND RELATED DIVISION OF WATER REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE PROJECT IS CLOSED OUT AND THE NOTICE OF TERMINATION APPROVED.
2. SEDIMENT CONTROL FENCING SHOWN AND REFERENCES TO SEDIMENT CONTROLS AT STORM WATER STRUCTURES AND ELSEWHERE ON THE DOCUMENTS ARE NOT TO BE USED FOR DIVISION OF WATER REQUIREMENTS. THESE REFERENCES ARE ONLY REQUIRED BY THE DESIGNER FOR PROPER MAINTENANCE OF THE STORM WATER SYSTEM AND TO MINIMIZE CLEANING OF THE SYSTEM AND PAVEMENTS.
3. EXISTING VEGETATION IS TO BE LEFT INTACT UNTIL CONSTRUCTION IN THAT PARTICULAR LOCATION IS REQUIRED. SOIL STABILIZATION PRACTICES (SEEDING, MULCHING, ETC.) ARE TO BEGIN WITHIN 14 DAYS OF PERMANENT COMPLETION OR TEMPORARY HALT (21 DAYS OR MORE) OF WORK IN ANY PARTICULAR AREA.
4. PERIMETER SEDIMENT AND EROSION CONTROLS ARE TO BE INSTALLED PRIOR TO THE START OF SITE CLEARING AND GRUBBING. EROSION CONTROLS SHALL BE IN ACCORDANCE WITH KYTC. CONTROL SHALL BE ACCOMPLISHED BY USE OF INTERCEPTOR DITCHES, DITCH SILT CHECKS, TEMPORARY SEEDING AND OTHER MEASURES AS MAY BE EFFECTIVE IN ACHIEVING THE DESIRED EFFECT. SILT FENCE SHALL BE INSTALLED TO PREVENT EROSION AND WASH-OFF ONTO WALKS, PAVEMENTS AND ALL ADJOINING PROPERTIES.
5. INSTALL SEDIMENT CONTROL FENCE OR SEDIMENT TRAPS AROUND ALL STORM WATER INLETS AND MAINTAIN UNTIL VEGETATION IS ESTABLISHED OR AREA PAVED AS APPROVED BY THE ARCHITECT. STORM WATER INLET PROTECTION IS TO BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF THE STRUCTURES. REMOVE PROTECTIONS AT THE COMPLETION OF THE PROJECT WHEN CONDITIONS NO LONGER WARRANT THEIR USE. SEE SD4 SHEETS FOR DETAILS.
6. TYPICAL SILT FENCE AND SEDIMENT TRAP INSTALLATION DETAILS ARE SHOWN ON THE SD4 SHEETS. SEE KYTC STANDARDS FOR INFORMATION CONCERNING THE STONE SILT CHECKS.
7. SEDIMENT CONTROLS ARE TO BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RAIN EVENT OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE PER WEEK. A LOG OF INSPECTIONS AND CLEANING IS TO BE KEPT ON SITE.
8. THE LOCATIONS OF SEDIMENT CONTROLS SHOWN ARE FOR GENERAL PROTECTION PRACTICES AND NOT AS PART OF A BMP PLAN. IF CONSTRUCTION ACTIVITIES PRODUCE CONDITIONS THAT REQUIRE ADDITIONAL CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE, INSTALL AND MAINTAIN THE CONTROLS UNTIL CONDITIONS NO LONGER WARRANT THEIR USE.
9. ALL STORM DRAINAGE CATCH BASINS, CURB INLETS, AND JUNCTIONS BOXES ARE TO RECEIVE PROTECTION FROM SEDIMENTATION. AT A MINIMUM A PERIMETER SILT FENCE SHOULD BE INSTALLED AROUND THE DRAINAGE STRUCTURE AND INSTALLED UNDER THE GRATE.

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF CONTAINED. LOCATION TO BE COORDINATED WITH THE CONSTRUCTION MANAGER AND THE OWNER.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREAS TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY CONCRETE PLACEMENT. COORDINATE LOCATION WITH THE EROSION POLLUTION AND SEDIMENT CONTROL PLAN.

   LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50-FEET FROM ANY STREAM, WETLAND, STORM DRAINS OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOOD PLANE.

   SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, STRAW BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ARCHITECT, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING.
5. WASHOUT AREA(S) ARE TO BE INSPECTED, CLEANED AND REPAIRED AFTER EACH RAIN EVENT OF 0.5-INCHES OR MORE, BUT NO LESS THAN ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS OR OVERFLOWS.
6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS AND GUIDELINES WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT.




## CONCRETE WASHOUT AREA

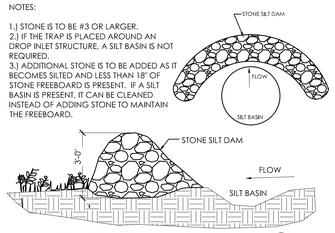
SCALE : N.T.S.

D / SD0.1

PLAN SYMBOL

NOTES:

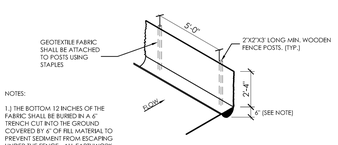
1.) STONE IS TO BE #3 OR LARGER.
2.) IF THE TRAP IS PLACED AROUND AN DROP INLET STRUCTURE, A SILT BASIN IS NOT REQUIRED.
3.) ADDITIONAL STONE IS TO BE ADDED AS IT BECOMES SILTED AND LESS THAN 18" OF STONE FREEBOARD IS PRESENT. IF A SILT BASIN IS PRESENT, IT CAN BE CLEANED INSTEAD OF ADDING STONE TO MAINTAIN THE FREEBOARD.




## SILT CHECK DAM

SCALE : N.T.S.

C / SD0.1




NOTES:

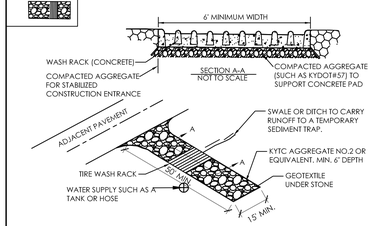
1.) THE BOTTOM 12 INCHES OF THE FABRIC SHALL BE BURIED IN A 6" TRENCH CUT INTO THE GROUND COVERED BY 6" OF FILL MATERIAL TO PREVENT SEDIMENT FROM ESCAPING UNDER THE FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF THE FENCE.

## SILT FENCE DETAIL

SCALE : N.T.S.

B / SD0.1

PLAN SYMBOL




## CONSTRUCTION ENTRANCE

SCALE : N.T.S.

A / SD0.1

## LEGEND

- SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL B/SD0.1
- LIMITS OF CONSTRUCTION
- SILT CHECK DAM - SEE DETAIL C/SD0.1
- TREE PROTECTION FENCE. INSTALLED PER SPECIFICATIONS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018


NOT FOR CONSTRUCTION

SITE EROSION POLLUTION AND SEDIMENT CONTROL PLAN
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
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IRVINE, KENTUCKY


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Drawn By: JKB/ELM
Rev'd By: MBM

SHEET RELEASE

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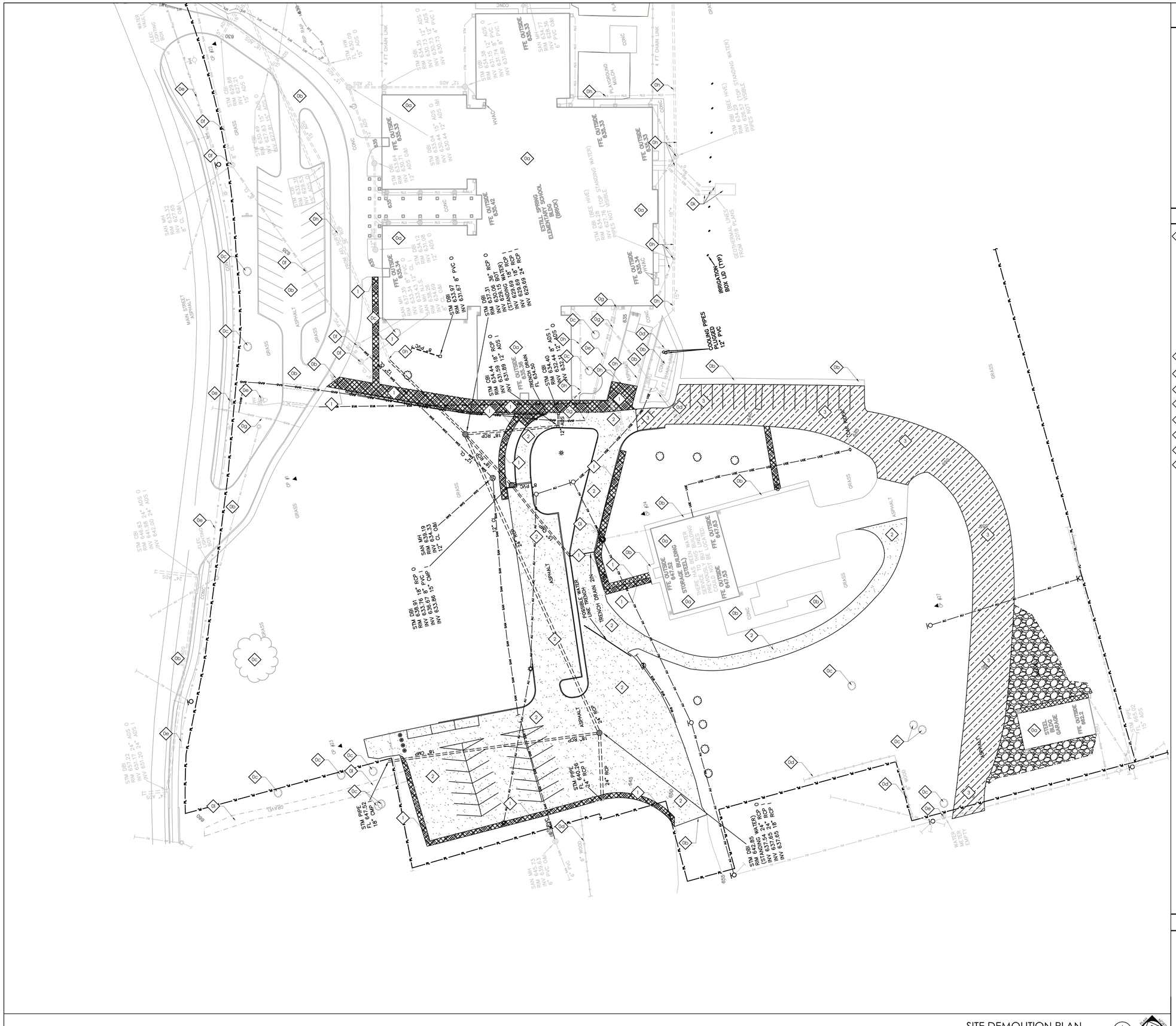
DESIGN DEVELOPMENT

SD0.1

OVERALL SITE DEVELOPMENT AND LAYOUT PLAN

DATE ISSUED:
02/21/2022




## SITE DEMOLITION PLAN

SCALE : 1"=30'

SD0.2

## GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY S&ME 2020 LIBERTY ROAD SUITE 105 LEXINGTON KY 405105. REFER TO SITE SURVEY SHEETS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS, REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
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5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
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## SITE DEMOLITION TAGS

0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- [a] BUILDING TO REMAIN. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
- [b] PAVEMENT TO REMAIN - PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS
- [c] TREE/VEGETATION TO REMAIN.
- [d] FENCING TO REMAIN.
- [e] WATER LINE, HYDRANT, VALVE, OR METER TO REMAIN.
- [f] SANITARY LINE, MANHOLE, OR CLEAN OUT TO REMAIN.
- [g] GAS LINE, VALVE, OR METER TO REMAIN.
- [h] STORM LINE/STRUCUTRE TO REMAIN
- [i] ELECTRIC LINE, POLE, OR METER TO REMAIN.
- [j] COMMUNICATIONS LINE, POLE, OR SERVICE TO REMAIN.
- [k] GEOTHERMAL UTILITY TO REMAIN.
- [l] GRAVEL PAVEMENT TO REMAIN.

1 DEMOLISH AND REMOVE EXISTING CONCRETE PAVEMENT, STAIR, AND AGGREGATE BASE.

2 DEMOLISH AND REMOVE EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE. SAWCUT EDGES.

3 EXISTING ASPHALT TO BE MILLED AND OVERLAYED.

4 DEMOLISH AND REMOVE EXISTING CONCRETE CURB/CURB AND GUTTER. SAW CUT TO PROVIDE CLEAN TRANSITION FOR ADJACENT NEW CURB.

5 DEMOLISH AND REMOVE EXISTING SITE WALL AND FOUNDATION.

6 DEMOLISH AND REMOVE EXISTING UTILITY LINE/STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

7 DEMOLISH AND REMOVE EXISTING STORM LINE/STRUCTURE.

8 EXISTING TREE TO BE REMOVED. SEE A/SD0.2 TREE PROTECTION AND REMOVAL PLAN FOR ADDITIONAL INFORMATION.

## LEGEND

- CONCRETE PAVEMENT DEMOLITION
- ASPHALT PAVEMENT DEMOLITION
- CONCRETE STAIR DEMOLITION
- GRAVEL PAVEMENT DEMOLITION

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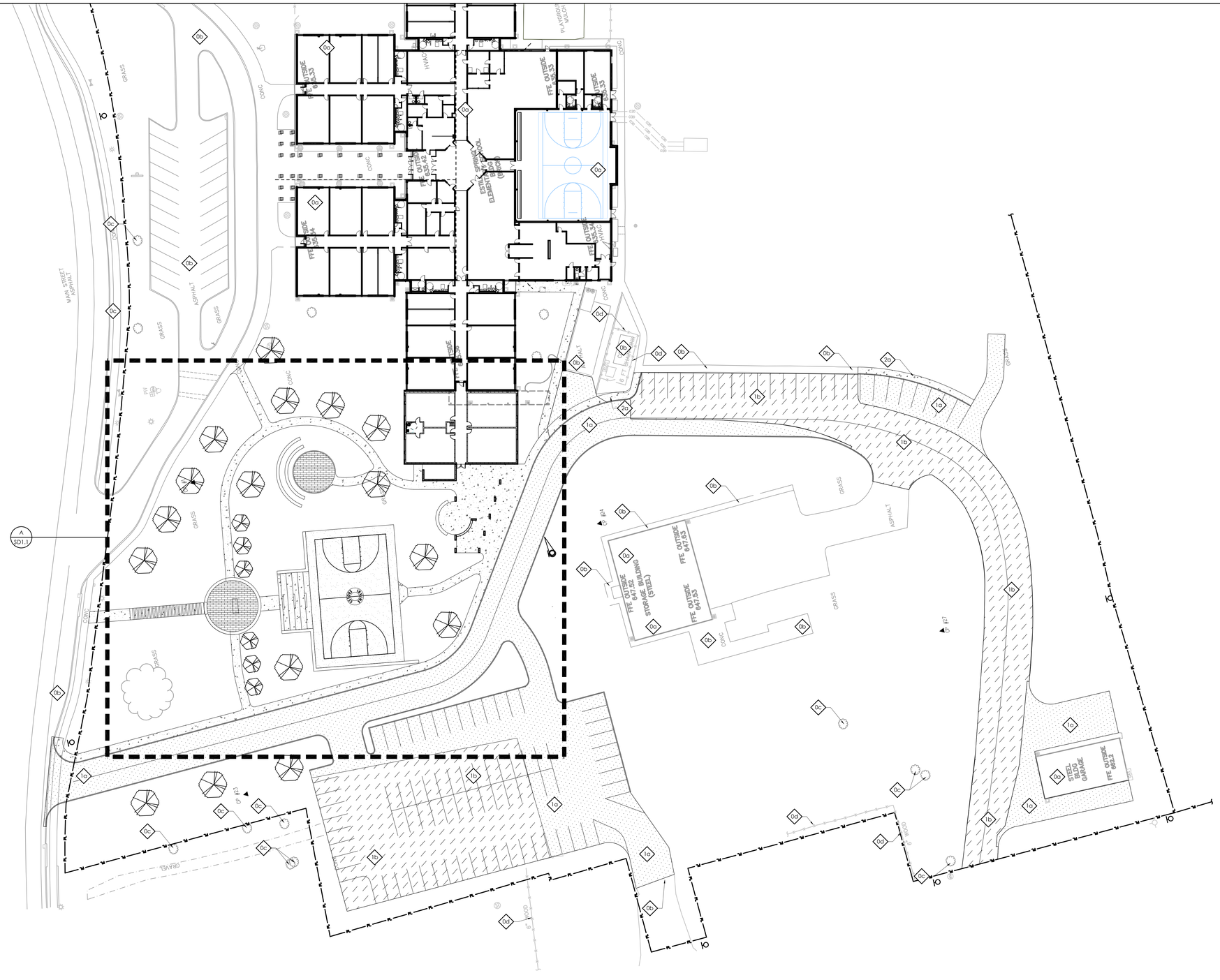
CONSTRUCTION DOCUMENTS

SD0.2

SITE DEMOLITION PLAN

DATE ISSUED:
02/09/2022

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- [c] TREE/VEGETATION TO REMAIN.
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- [k] GEOTHERMAL UTILITY TO REMAIN.
- [l] GRAVEL PAVEMENT TO REMAIN.

1 ASPHALT PAVEMENT (321216)
- [a] HEAVY DUTY ASPHALT PAVING. SEE DETAIL A/SD4.2
- [b] ASPHALT PAVEMENT MILL & OVERLAY. SEE DETAIL A/SD4.2

2 CONCRETE PAVEMENT (321313, 321373)
- [a] 4" DEPTH CONCRETE PAVEMENT- SEE DETAIL, B/SD4.2
- [b] 8" DEPTH CONCRETE PAVEMENT. SEE DETAIL, C/SD4.2

3 CONCRETE CURB (321313, 321613, 321726)
- [a] 6" WIDTH, 6" HEIGHT HEADER CURB. SEE DETAIL D/SD4.2
- [b] 6" WIDTH FLUSH HEADER CURB. SEE DETAIL E/SD4.2
- [c] 6" WIDTH, 12" HEIGHT HEADER CURB. SEE DETAIL D/SD4.2
- [d] 6" WIDTH, 16" HEIGHT HEADER CURB. SEE DETAIL D/SD4.2
- [e] CONCRETE SIDEWALK WITH TURNDOWN CURB. SEE DETAIL F/SD4.2
- [f] ACCESSIBLE DROPPED CURB TYPE 'A' RAMP. SEE DETAILS G&H/SD4.2
- [g] ACCESSIBLE DROPPED CURB TYPE 'B' RAMP. SEE DETAILS G&I/SD4.2

4 PERMEABLE CONCRETE PAVERS. (321413.19) SEE DETAIL J/SD4.3

5 CONCRETE RETAINING WALL. SEE DETAIL K/SD4.3

6 CONCRETE STAIRS (32131) SEE DETAIL B/SD4.2

7 PAINTED PAVEMENT MARKINGS. (321723.13)
- [a] 4" PAVING STRIPING, WHITE.
- [b] ACCESSIBLE PARKING STRIPING. SEE DETAIL J/SD4.2
- [c] 4" PAVING STRIPE, BLUE
- [d] PAINTED TRAFFIC STOP BAR, 12"X12', WHITE.
- [e] 4" PAVING STRIPING, YELLOW.
- [f] PAINTED CROSSWALK. SEE DETAIL K/SD4.2
- [g] PAINTED TRAFFIC DIRECTIONAL ARROWS. SEE DETAIL L/SD4.2

8 TRAFFIC SIGNAGE (SINGLE POST).(101453)
- [a] STOP SIGN. SEE DETAIL P/SD4.2
- [b] ACCESSIBLE PARKING SIGN. SEE DETAIL Q/SD4.2
- [c] "ONE WAY DO NOT ENTER" SIGN. SEE DETAIL P/SD4.2
- [d] "VISITOR PARKING ONLY" SIGN. SEE DETAIL P/SD4.2
- [e] "STUDENT DROP OFF" WITH DIRECTIONAL ARROW. SEE DETAIL P/SD4.2

9 MASONRY SEAT WALL WITH LIMESTONE CAP. SEE DETAIL F/SD4.2

10 CONCRETE WHEEL STOP. (321713) SEE DETAIL M/SD4.2

11 PLAYGROUND EQUIPMENT(116813)
- [a] OUTDOOR SHADE STRUCTURE
- [b] BASKETBALL GOAL

12 UTILITY STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

13 STRUCTURE. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- [a] BUILDING CANOPY.

## LEGEND

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT OVERLAY
- HEAVY DUTY ASPHALT PAVEMENT

OVERALL SITE DEVELOPMENT AND LAYOUT PLAN (A / SD1.0)
SCALE : 1"=30'

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

# OVERALL SITE DEVELOPMENT AND LAYOUT PLAN
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

M.E.&P Engineer:
Staggs & Fisher
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Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG# 22-207

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| Project No: | 2148 |
| Drawn By: | JKB/ELM |
| Rev'd By: | MBM |

SHEET RELEASE

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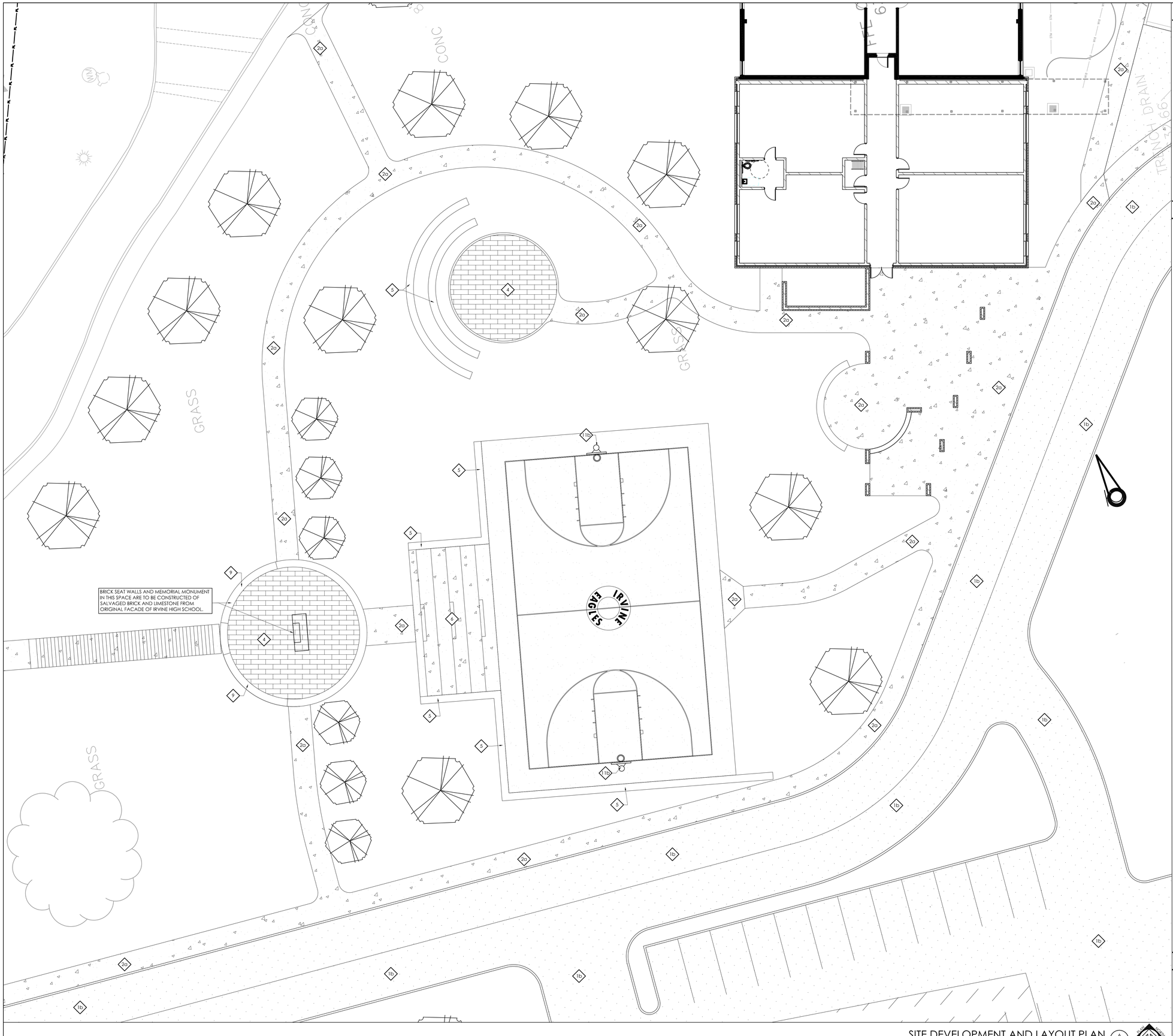
DESIGN DEVELOPMENT

SD1.0

OVERALL SITE DEVELOPMENT AND LAYOUT PLAN

DATE ISSUED: 02/21/2022




## SITE DEVELOPMENT AND LAYOUT PLAN

SCALE : 1"=10'

A SD1.0

## GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY S&ME 2020 LIBERTY ROAD SUITE 105 LEXINGTON KY 405105. REFER TO SITE SURVEY SHEETS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
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5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
6. REFER TO CONSTRUCTION MANAGER'S PLANS AND SPECIFICATIONS FOR INFORMATION REGARDING CONSTRUCTION SCHEDULE/SEQUENCING, CONSTRUCTION FENCING/STAGING, AND LEED SPECIFIC REQUIREMENTS.

## SITE DEVELOPMENT TAGS

0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- [a] BUILDING TO REMAIN. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
- [b] PAVEMENT TO REMAIN - PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW-CUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAW-CUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS
- [c] TREE/VEGETATION TO REMAIN.
- [d] FENCING TO REMAIN.
- [e] WATER LINE, HYDRANT, VALVE, OR METER TO REMAIN.
- [f] SANITARY LINE, MANHOLE, OR CLEAN OUT TO REMAIN.
- [g] GAS LINE, VALVE, OR METER TO REMAIN.
- [h] STORM LINE/STRUCUTRE TO REMAIN
- [i] ELECTRIC LINE, POLE, OR METER TO REMAIN.
- [j] COMMUNICATIONS LINE, POLE, OR SERVICE TO REMAIN.
- [k] GEOTHERMAL UTILITY TO REMAIN.
- [l] GRAVEL PAVEMENT TO REMAIN.

1 ASPHALT PAVEMENT (321216)
- [a] ASPHALT PAVEMENT MILL/OVERLAY. SEE DETAIL A/SD4.2
- [b] HEAVY DUTY ASPHALT PAVING. SEE DETAIL A/SD4.2

2 CONCRETE PAVEMENT (321313, 321373)
- [a] 4" DEPTH CONCRETE PAVEMENT- SEE DETAIL B/SD4.2
- [b] 8" DEPTH CONCRETE PAVEMENT. SEE DETAIL C/SD4.2

3 CONCRETE CURB (321313, 321613, 321726)
- [a] 6" WIDTH, 6" HEIGHT HEADER CURB. SEE DETAIL D/SD4.2
- [b] 6" WIDTH FLUSH HEADER CURB. SEE DETAIL E/SD4.2
- [c] 6" WIDTH, 12" HEIGHT HEADER CURB. SEE DETAIL D/SD4.2
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- [f] PAINTED TRAFFIC DIRECTIONAL ARROWS. SEE DETAIL L/SD4.2
- [g] BASKETBALL COURT COLOR COATING & STRIPING. SEE DETAIL J/SD4.2

8 TRAFFIC SIGNAGE (SINGLE POST).(101453)
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## LEGEND

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- ASPHALT PAVEMENT OVERLAY
- HEAVY DUTY ASPHALT PAVEMENT

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FOR:
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BG# 22-207

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| Project No: | 2148 |
| Drawn By: | JKB/ELM |
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SHEET RELEASE

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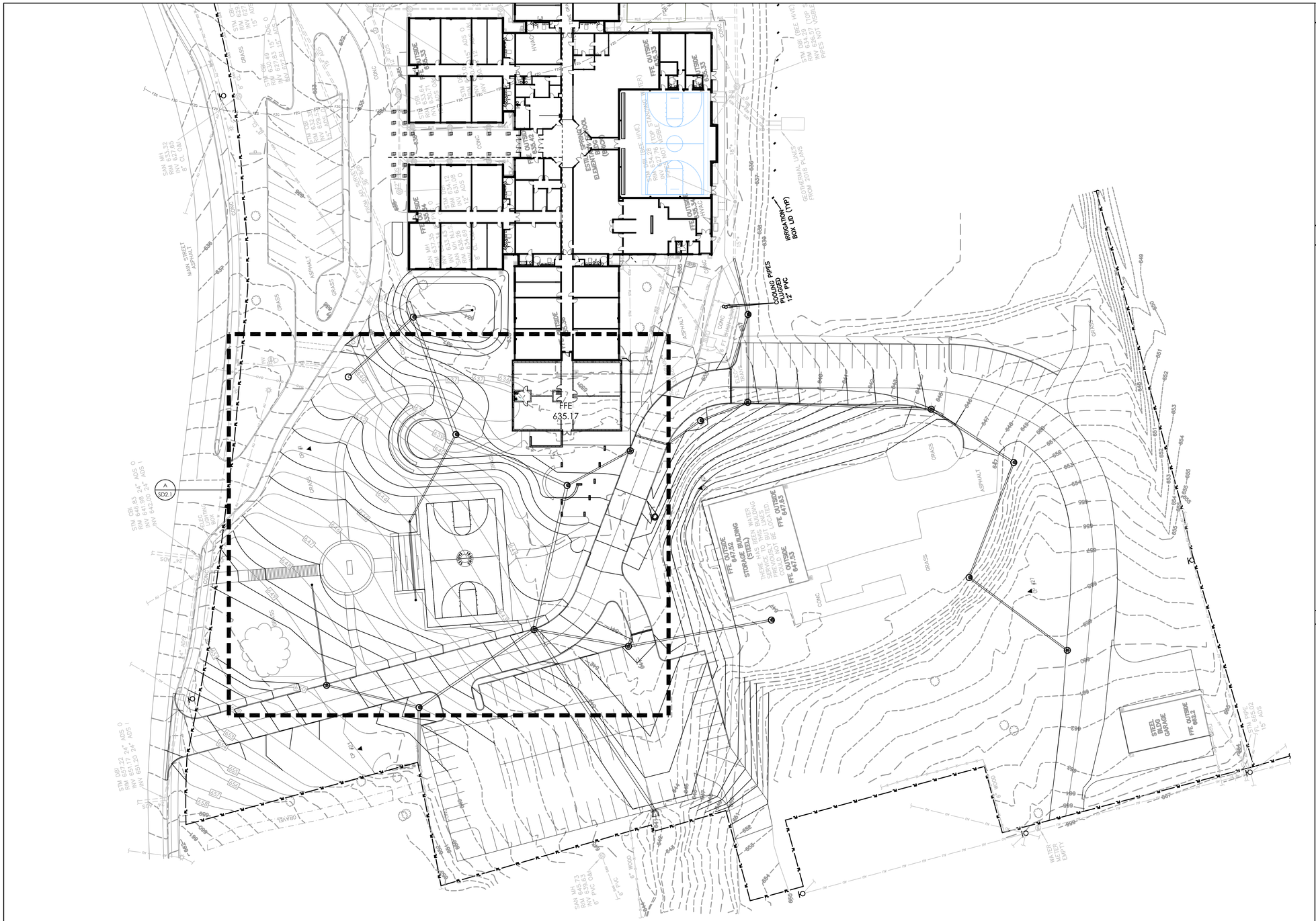
SD1.1

SITE DEVELOPMENT PLAN

DATE ISSUED: 02/09/2022




## OVERALL SITE GRADING & DRAINAGE PLAN

SCALE : 1"=30'

A
SD2.0

## GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON TOPOGRAPHIC SURVEYS BY S&ME 2020 LIBERTY ROAD SUITE 105 LEXINGTON KY 405105. REFER TO SITE SURVEY SHEETS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. MEASURES SHOULD BE TAKEN TO PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN ON SD0.1 FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.
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## SITE GRADING NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ACTUAL DEPTHS OF ALL EXISTING STORM DRAINS, GAS MAINS, WATER MAINS, AND PIPES TO ALL NEW CONNECTIONS AND CROSSINGS. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AREAS WHERE CONSTRUCTION OR GRADING MAY INTERFERE WITH SUCH LINES.
2. ANY DISCREPANCIES BETWEEN THIS GRADING PLAN AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION OF ANY SORT. FAILURE TO NOTIFY THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF EXCAVATION, GRADING, TRENCHING, OR OTHER CONSTRUCTION SHALL IMPLY THE CONTRACTOR'S VERIFICATION OF AND ACCEPTANCE OF EXISTING SITE CONDITIONS. SAID FAILURE TO NOTIFY THE ARCHITECT IN WRITING SHALL IDENTIFY AND HOLD HARMLESS THE OWNER FROM ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR DUE TO DISCREPANCIES NOT REPORTED WHICH COULD HAVE BEEN DETECTED BY PRUDENT AND REASONABLE OBSERVATION AND VERIFICATION BY THE CONTRACTOR.
3. ALL IMPERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF ONE PERCENT (1%) AND A MAXIMUM SLOPE OF SEVEN PERCENT (7%)
4. ALL PERVIOUS SURFACES SHALL BE GRADED AND INSTALLED WITH A MINIMUM SLOPE OF TWO PERCENT (2%) AND A MAXIMUM SLOPE OF THIRTY-THREE PERCENT (33%) EXCEPT WHERE SHOWN.
5. SLOPE PERVIOUS SURFACES MIN. 5 % AND IMPERVIOUS SURFACES MIN. 1% AWAY FROM BUILDING FOUNDATIONS.
6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO POND IN CONSTRUCTION AREAS.
7. RELOCATE ALL BURIED UTILITIES THAT ARE IMPACTED BY ANY EARTHWORK. RELOCATED UTILITY LOCATIONS ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO STARTING WORK.
8. PROTECT AREAS TO BE SEEDED AS FOLLOWS:
   A) DITCHES AND DRAINAGE SWALES ARE TO RECEIVE HIGH-VELOCITY EROSION-CONTROL BLANKETS.
   B) SLOPES 4:1 (H:V) OR GREATER ARE TO RECEIVE LONG-TERM EROSION-CONTROL BLANKETS.
   C) SLOPES BETWEEN 4:1 AND 6:1 (H:V) ARE TO RECEIVE SHORT-TERM EROSION CONTROL BLANKETS.
   D) SLOPES BELOW 6:1 (H:V) ARE TO RECEIVE STRAW MULCH PER THE SPECIFICATIONS. DO NOT USE HAY.
9. ANY AREAS DISTURBED DURING CONSTRUCTION ARE TO BE RECONDITIONED, SEEDED AND MULCHED PER THE SPECIFICATIONS.
10. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY AT PLUS OR MINUS TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT:
    A) UNDER FLOOR SLABS AND FOUNDATIONS ON STRUCTURAL FILL - 97%
    B) FILLS ON EXISTING SOILS, ROCK CUTS OR SHOT-ROCK FILL - 97%
    C) PAVED AREAS AND WALKS - 95%
    D) LANDSCAPE AREAS OUTSIDE MASS FILL AREAS - 85%
11. ALL TREES THAT ARE IDENTIFIED BY THE ARCHITECT TO REMAIN, EITHER ON THE DRAWING OR IN THE FIELD, ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TREES LOCATED OUTSIDE OF AREAS IDENTIFIED TO BE REGRADED ARE TO BE PROTECTED IN ACCORDANCE WITH THE SPECIFICATIONS.
12. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND SEDIMENT ARE REMOVED DAILY FROM SITE DRIVEWAYS, PARKING AREAS, WALKWAYS AND SURROUNDING ROADWAYS AND WALKWAYS.
13. EXCESS SATISFACTORY SOILS ARE TO BE DISPOSED OF ON-SITE IN A LOCATION IDENTIFIED BY THE OWNER. THESE SOILS ARE TO BE SPREAD AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
14. THE NEW PARKING, ROADS AND ROAD BASE ARE NOT DESIGNED TO ACCOMMODATE CONSTRUCTION TRAFFIC AND SHOULD NOT BE USED FOR SUCH UNLESS STABILIZED USING #2 CRUSHED STONE AND/OR GEO-GRID IN ADDITION TO THE PAVEMENT DESIGN SECTION SHOWN. IF THE CONTRACTOR WISHES TO USE THE NEW ROAD ALIGNMENTS DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO STABILIZE THE ROAD ALIGNMENT SUBGRADES AND PREVENT THEM FROM BEING DAMAGED DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A CRUSHED STONE ENTRY AND DRIVE TO REDUCE SOIL TRACKING.

## SITE STORM DRAINAGE NOTES

1. DRAINAGE PIPE THAT CROSSES UNDER ROADS OR PARKING AREAS SHALL BE REINFORCED CONCRETE. ALL PE PIPE SHALL BE DUAL WALL POLYETHYLENE PIPE WITH SMOOTH INTERIOR WALL OR EQUIVALENT AS APPROVED IN THE SPECIFICATIONS. ALL STORM PIPING SHALL BE INSTALLED AT A CONSTANT, POSITIVE SLOPE FROM INLET CONNECTION TO DISCHARGED CONNECTION. PIPE SLOPE IS TO BE 0.5% MINIMUM.
2. SEDIMENT PROTECTION DEVICES, SUCH AS SILT FENCING SHALL BE INSTALLED IN AND/OR AROUND ALL STORM STRUCTURES.
3. EROSION CONTROL BLANKETS ARE TO BE INSTALLED AS INDICATED IN THE SPECIFICATIONS.
4. ALL STORM STRUCTURES ARE TO BE DESIGNED FOR H-20 LOADING.
5. ALL GRATES AND MANHOLE COVERS ARE TO BE HEAVY DUTY CAST IRON DESIGNED FOR H-20 LOADING.
6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES.
7. ALL ROOF DRAINS AND DOWNSPOUTS, INCLUDING CANOPY DOWNSPOUTS, ARE TO BE PIPED UNDERGROUND AND CONNECTED TO STORM WATER STRUCTURES. DOWNSPOUT BOOT AND DOWNSPOUT SEES ARE TO BE COORDINATED WITH THE MANUFACTURERS AND INSTALLERS OF EACH ITEM. CLEANOUTS ARE TO BE LOCATED AT EACH CHANGE IN DIRECTION OF THE PIPING. ENSURE CLEANOUTS ARE DESIGNED FOR AUTOMOBILE TRAFFIC, AND ARE FLUSH WITH THE SURROUNDING SURFACES.
8. THE LOCATIONS SHOWN FOR THE NEW STORM SEWER PIPING AND STRUCTURES ARE APPROXIMATE. ACTUAL LOCATIONS CAN BE ADJUSTED WITH ARCHITECTS WRITTEN APPROVAL IN ORDER TO AVOID UNFORESEEN CONDITIONS OR OTHER CONSTRUCTION CONFLICTS. CONTRACTOR IS TO COORDINATE STORM SEWER INSTALLATION WITH ALL OTHER TRADES AND WORK.

## DRAINAGE LEGEND

| | |
|---|---|
| CO | CLEANOUT - SEE DETAIL X/SD4.X |
| DS | DOWNSPOUT - SEE DETAIL X/SD4.X |
| RD | ROOF DRAIN - SEE M&E DRAWINGS FOR LEADER SIZES AND DETAILS. |

## SPOT ELEVATION LEGEND

| | |
|---|---|
| TC - TOP OF CURB | TR - TOP OF RISER |
| BC - BOTTOM OF CURB | BR - BOTTOM OF RISER |
| FFE - FINISHED FLOOR ELEVATION | EJ - EXPANSION JOINT |
| TW - TOP OF WALL AT FINISH GRADE | |
| BW - BOTTOM OF WALL AT FINISH GRADE | |

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# SITE GRADING & DRAINAGE PLAN
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DESIGN DEVELOPMENT

SD2.0

SITE GRADING & DRAINAGE PLAN

DATE ISSUED:
02/21/2022

SITE GRADING & DRAINAGE PLAN

SCALE : 1"=30'

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SD2.0

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12. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION DEBRIS AND SEDIMENT ARE REMOVED DAILY FROM SITE DRIVEWAYS, PARKING AREAS, WALKWAYS AND SURROUNDING ROADWAYS AND WALKWAYS.
13. EXCESS SATISFACTORY SOILS ARE TO BE DISPOSED OF ON-SITE IN A LOCATION IDENTIFIED BY THE OWNER. THESE SOILS ARE TO BE SPREAD AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.
14. THE NEW PARKING, ROADS AND ROAD BASE ARE NOT DESIGNED TO ACCOMMODATE CONSTRUCTION TRAFFIC AND SHOULD NOT BE USED FOR SUCH UNLESS STABILIZED USING #2 CRUSHED STONE AND/OR GEO-GRID IN ADDITION TO THE PAVEMENT DESIGN SECTION SHOWN. IF THE CONTRACTOR WISHES TO USE THE NEW ROAD ALIGNMENTS DURING CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO STABILIZE THE ROAD ALIGNMENT SUBGRADES AND PREVENT THEM FROM BEING DAMAGED DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A CRUSHED STONE ENTRY AND DRIVE TO REDUCE SOIL TRACKING.

## SITE STORM DRAINAGE NOTES

1. DRAINAGE PIPE THAT CROSSES UNDER ROADS OR PARKING AREAS SHALL BE REINFORCED CONCRETE. ALL PE PIPE SHALL BE DUAL WALL POLYETHYLENE PIPE WITH SMOOTH INTERIOR WALL, OR EQUIVALENT AS APPROVED IN THE SPECIFICATIONS. ALL STORM PIPING SHALL BE INSTALLED AT A CONSTANT, POSITIVE SLOPE FROM INLET CONNECTION TO DISCHARGED CONNECTION. PIPE SLOPE IS TO BE 0.5% MINIMUM.
2. SEDIMENT PROTECTION DEVICES, SUCH AS SILT FENCING SHALL BE INSTALLED IN AND/OR AROUND ALL STORM STRUCTURES.
3. EROSION CONTROL BLANKETS ARE TO BE INSTALLED AS INDICATED IN THE SPECIFICATIONS.
4. ALL STORM STRUCTURES ARE TO BE DESIGNED FOR H-20 LOADING.
5. ALL GRATES AND MANHOLE COVERS ARE TO BE HEAVY DUTY CAST IRON DESIGNED FOR H-20 LOADING.
6. MAINTAIN GRADING TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES.
7. ALL ROOF DRAINS AND DOWNSPOUTS, INCLUDING CANOPY DOWNSPOUTS, ARE TO BE PIPED UNDERGROUND AND CONNECTED TO STORM WATER STRUCTURES. DOWNSPOUT BOOT AND DOWNSPOUT SIZES ARE TO BE COORDINATED WITH THE MANUFACTURERS AND INSTALLERS OF EACH ITEM. CLEANOUTS ARE TO BE LOCATED AT EACH CHANGE IN DIRECTION OF THE PIPING. ENSURE CLEANOUTS ARE DESIGNED FOR AUTOMOBILE TRAFFIC, AND ARE FLUSH WITH THE SURROUNDING SURFACES.
8. THE LOCATIONS SHOWN FOR THE NEW STORM SEWER PIPING AND STRUCTURES ARE APPROXIMATE. ACTUAL LOCATIONS CAN BE ADJUSTED WITH ARCHITECTS WRITTEN APPROVAL IN ORDER TO AVOID UNFORESEEN CONDITIONS OR OTHER CONSTRUCTION CONFLICTS. CONTRACTOR IS TO COORDINATE STORM SEWER INSTALLATION WITH ALL OTHER TRADES AND WORK.

## DRAINAGE LEGEND

| | |
|---|---|
| CO | CLEANOUT - SEE DETAIL X/SD4.X |
| DS | DOWNSPOUT - SEE DETAIL X/SD4.X |
| RD | ROOF DRAIN - SEE M&E DRAWINGS FOR LEADER SIZES AND DETAILS. |

## SPOT ELEVATION LEGEND

| | |
|---|---|
| TC - TOP OF CURB | TR - TOP OF RISER |
| BC - BOTTOM OF CURB | BR - BOTTOM OF RISER |
| FFE - FINISHED FLOOR ELEVATION | EJ - EXPANSION JOINT |
| TW - TOP OF WALL AT FINISH GRADE | |
| BW - BOTTOM OF WALL AT FINISH GRADE | |

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101 old fayette avenue lexington, kentucky 40502 p 859.254.4018

NOT FOR CONSTRUCTION

# SITE GRADING & DRAINAGE PLAN
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

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BG# 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | JKB/ELM |
| Rev'd By: | MBM |

SHEET RELEASE

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DESIGN DEVELOPMENT

SD2.1

SITE GRADING & DRAINAGE PLAN

DATE ISSUED:
02/21/2022

# STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

## DESIGN CRITERIA

1. Building Code: 2018 Kentucky Building Code and ASCE 7-10

   1.1 Building Risk Category: III

2. Design Loads

   2.1 Uniform Floor Live Loads (reduced per Building Code, UNO)

   General Ground Areas 100 psf

   2.2 Roof Loads

   2.2.1 Uniform Roof Live Load 20 psf (reduced per Bldg. Code)
   Concentrated Roof Live Load 300 lbs

   2.2.2 Snow Loads: Ground Snow = 15 psf (with drift loads per Code)

   Terrain Category = C
   Snow Exposure Factor, Ce = 1.0
   Snow Load Importance Factor, I = 1.1
   Thermal Factor: Unheated Spaces, Ct = 1.2
   Flat-roof Snow Load: Unheated Spaces, Pf = 13.9 psf
   Rain-on-Snow Surcharge: 5 psf (where applicable)

   2.3 Wind Loads: Basic Wind Speed V(ult) = 120 mph; V(asd) = 93 mph

   2.3.1 Component and Cladding Pressures: See S003

   2.4 Earthquake Loads
   Seismic Importance Factor, I = 1.25
   Mapped Spectral Response Accelerations, Ss and S1 = 0.2 and 0.092
   Site Class: C
   Spectral Response Coefficients, Sds and Sd1 = 0.160 and 0.104
   Seismic Design Category: B
   Response Modification Factor, R = 3.0
   Analysis Procedure: Equivalent Lateral Force Procedure

3. Structural Engineer is not responsible for the design of cold-formed steel framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Construction Documents.

4. No explicit provisions have been made for future building expansion.

## GENERAL

1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.

2. Material, workmanship, and design shall conform to the referenced Building Code.

3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.

4. Contractor responsibilities include, but are not limited to, the following:

   4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission prior to installation of associated work.

   4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing davits, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.

   4.3 Equipment/Framing Verification

   4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.

   4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.

   4.4 The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.

   4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.

   4.6 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.

   4.7 Contractor shall visit the project site prior to placing a bid to perform any structural repair work in order to observe the existing conditions of the structure.

   4.8 Contractor shall coordinate all structural repair work with all trades and existing conditions and notify the structural engineer of any conflicts before starting related work. Related work can start once an approved solution has been issued.

5. Existing and Unforeseen Conditions

   5.1 Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.

   5.2 Shop drawing submittals shall be based on field verified dimensions and conditions only. Contractor shall clearly show actual field dimensions on shop drawings.

   5.3 Existing dimensions, elevations, and other information shown in the Structural Drawings are based on the following Documents:

   Estill Elementary School Dated: 1987 By: Sherman.Carter.Barnhart Architects

## SUBMITTALS

1. Shop Drawings and Submittals

   1.1 Reproduction of Structural Drawings for shop drawings is not permitted.

   1.2 Electronic drawing files will not be provided to the Contractor.

   1.3 Review of shop drawings will be for conformance with the Construction Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.

2. Submittals

   2.1 The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.

3. Deferred Submittals

   3.1 Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.

   3.2 Submittal documents for Deferred Submittals:

   3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.

   3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.

   3.3 The following shall be considered Deferred Submittals:
   Steel Connections - See "Structural Steel" Section

## FOUNDATION

1. Geotechnical Report: S&ME Project No. 1183-18-006 dated March 9, 2018

2. Building Pad Preparation

   2.1 Strip vegetation and topsoil.

   2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.

3. Bearing Capacity: Main Entrance Canopy = 750 psf

   3.1 Foundations shall extend through fill material and bear on soft alluvial soils. Maximum depth of excavation shall not exceed 5 1/2 feet below existing ground surface.

4. Bearing Capacity: Rear Entrance Canopy = 5000 psf (weathered rock)

   4.1 Foundations shall bear on weatherd rock. Foundations shall be treated per project specifications for exposed shale.

## REINFORCEMENT

1. Reinforcing Bars: ASTM A615, Grade 60

   1.1 Reinforcing bars are not to be welded.

2. Reinforcement Placement (UNO)

   2.1 Concrete Reinforcement Cover

| | | | |
|---|---|---|---|
| Below Grade: | Unformed | 3" | clear |
| | Formed | 2" | clear |

3. Reinforcement Splices

   3.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.

   3.2 Splice Lengths (UNO)
   Concrete Reinforcement: Class B Tension Lap

## CAST-IN-PLACE CONCRETE

1. Concrete Properties

   1.1 Normal Weight Structural Concrete

| | 28-Day, f'c (min) | w/cm Ratio (max.) | Entrained Air |
|---|---|---|---|
| Footings (w/ Waterproofing Additive) | 3,000 psi | ---- | None Required |
| Slabs on Grade | 3,500 psi | 0.48 | None Required |
| Mechanical Equipment Pads: | | | |
| Interior | 3,000 psi | ---- | None Required |
| Exterior | 3,000 psi | ---- | 5.0 +/- 1.5% |

2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.

3. Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.

   3.1 Conduit shall not be placed within the slab on grade. Conduit shall be installed below the slab on grade within the granular subbase.

4. Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.

5. Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.

6. Curing

   6.1 Begin curing procedures immediately following commencement of the finishing operation.

   6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.

## NON-SHRINK GROUTING

1. Non-shrink grout under steel base plates shall be non-metallic with minimum compressive strength of 5000 psi at 28 days.

2. Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.

## STRUCTURAL STEEL

1. Steel Shapes

   1.1 W-Shapes: ASTM A992 (Grade 50)

   1.2 Angles, Channels, Plates, UNO: ASTM A36

   1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B

2. Anchor Rods, Bolts, and Studs

   2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.

   2.2 Bolts: 3/4" Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.

   2.3 Headed Studs: ASTM A108. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.

3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" dated June 22, 2010 and the AISC "Code of Standard Practice for Steel Buildings and Bridges" dated April 14, 2010.

4. Connections shall be detailed based on the design information provided in the Structural Documents.

   4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction", Fourteenth Edition.

   4.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer.

   4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.

   4.3 Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction", Fourteenth Edition.

   4.4 Steel connections shall have the strength to resist a minimum horizontal force of five percent of the factored design reaction.

   4.5 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state.

5. Shop Drawings: Submittal shall adequately depict structural members and connections.

6. Written welding procedures for shop and field welding of all structural steel shall be submitted to the Structural Engineer and the Special Inspector for review and approval. Do not fabricate steel until the welding procedures have been approved. The approved written welding procedures shall be strictly adhered to during the fabrication and field erection of all structural steel.

7. Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.

8. Architecturally Exposed Structural Steel (AESS): Conform to AISC Code of Standard Practice, Section 10. AESS shall be sandblasted (SSPC-SP6) prior to primer coat application. Primer shall be compatible with final paint coat and shall be approved by finish paint contractor. Steel deck shall be painted after installation. See Architectural Documents for paint specifications. AESS includes the following:

   Structural steel members exposed to view

## STEEL DECK

1. Steel Roof Deck: Versa Deck - See architectural drawings for finish requirements.

2. Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

### STRUCTURAL INDEX


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| S3.2 | MASONRY SECTIONS AND DETAILS |



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SDG Project No. 2022-039.00


STRUCTURAL NOTES
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY


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BG# 22-207

Project No: 2148
Drawn By: CCA
Rev'd By: CH / DH

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DESIGN DEVELOPMENT

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STRUCTURAL NOTES

DATE ISSUED:
FEBRUARY 2022

# STRUCTURAL QUALITY ASSURANCE PLAN

**GENERAL**

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project.
2. The responsibilities of the Contractor.
3. Structural Observations

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

Special Inspector will be hired by the Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

**STATEMENT OF SPECIAL INSPECTIONS**

Special Inspector shall perform the following tests and inspections of all structural elements included within this Statement of Special Inspections.

1. The following tables contain material, components and work that require special inspection or testing:
   a. Inspection Frequency, C - Continuous special inspection. Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
   b. Inspection Frequency, P - Periodic special inspection. Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed. For structural steel observe the items on a random basis.
   c. See Steel section for additional information for inspection tasks.

| SOILS | Inspection Frequency | | Remarks |
|---|---|---|---|
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | --- | P | --- |
| 2. Verify excavations are extended to proper depth and have reached proper material. | --- | P | Inspection is required after excavation is complete and prior to placement of structural fills. |
| 3. Perform classification and testing of controlled fill materials. | --- | P | Perform laboratory tests of field samples provided by contractor for verification of in place densities. |
| 4. Verify use of proper materials, densities, and lift thickness during placement and compaction of controlled fill.<br>a. As a minimum, perform one test per lift for every 2500 square feet of fill placed. | C | --- | Refer to specification for lift thicknesses and compaction. |
| 5. Prior to placement of controlled fill, observe subgrade and verify that the site has been prepared properly (e.g. proofrolling, etc.). | --- | P | --- |
| 6. Determine quantities of material removed and quantities of material placed where Unit Prices are involved. | --- | P | --- |

| CONCRETE CONSTRUCTION | Inspection Frequency | | Remarks |
|---|---|---|---|
| 1. Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances. | --- | P | ACI 318: 3.5, 7.1 – 7.7 / IBC 1910.4 |
| 2. Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment dpeth. | C | --- | ACI 318: 1.3.2, 8.1.3, 21.1.8 / IBC 1908.5, 1909.1, AISC 360-10 N5.7 |
| 3. Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment, and tightening torque. | C | --- | ACI 318: 3.8.6, 8.1.3, 21.1.8 / IBC 1909.1<br><br>Use of post installed anchors must be approved by Structural Engineer |
| 4. Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: . Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening toque. | C | --- | ACI App. D9.2.4 |
| 5. Verify use of required design mix. | --- | P | ACI 318: Ch. 4, 5.2 – 5.4, IBC 1904.2, 1910.2, 1910.3 |
| 6. Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project.<br>a. Mold (5) 4x8-inch compressive strength cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days.<br>b. Remaining specimen(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.<br>c. For each set molded, record:<br>i. Slump<br>ii. Air Content<br>iii. Unit Weight<br>iv. Temperature, ambient and concrete<br>v. Batch and discharge times<br>vi. Location and placement<br>vii. Any pertinent information, such as addition of water, addition of admixtures, etc.<br>d. Verify compliance with construction documents | C | --- | ACI 318: 5.6, 5.8<br>ACI (5.a, 5b.i, ii, iii, iv, v, vi), SDG (5b.vii, 5.c, 5.d)<br>ASTM C 172, ASTM C 31<br><br>ACI 318: 5.6.1<br>Report in writing on the same day as tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break. |
| 7. Inspection of concrete and shotcrete conveying and placement for proper application techniques. | C | --- | ACI 318: 5.9, 5.10 |
| 8. Inspection for maintenance of specified curing temperature and techniques. | --- | P | ACI 318: 5.11 – 5.13 |
| 9. Inspection of formwork for shape, location, and dimensions of the concrete member being formed. | --- | P | ACI 318: 6.1.1 |

| NON-SHRINK GROUTING | Inspection Frequency | | Remarks |
|---|---|---|---|
| 1. Compressive strength tests per ASTM C1107.<br>a. Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting.<br>b. Cube Size: 2-inch x 2-inch<br>c. Test Schedule: (1) cube at 3-days, (2) cubes at 7-days, (3) cubes at 28-days. | C | --- | --- |
| 2. Perform one performance evaluation test prior placing grout under base plates. Test shall be performed as outlined in ACI 351.1R-99 | --- | P | One test shall be performed at the beginning job prior to placement of grout under base plates. |

| CONCRETE MASONRY<br>LEVEL B - (FOR RISK CATEGORY I, II, OR III STRUCTURES using Engineered methods, NON-Empirical) | Inspection Frequency | | Remarks |
|---|---|---|---|
| 1. Verification of f 'm in accordance with Specification TMS 602 Article 1.4 B prior to construction | --- | --- | TMS 602 - Article 1.4 B |
| 2. Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site for self-consolidating grout. | | | TMS 602 - Article 1.5 B.1.b.3 |
| 3. Verify compliance with the following approved submittals | --- | --- | --- |
| a. Mortar mix designs indicating type and proportions of ingredients in compliance with the proportion specification of ASTM C270 | --- | P | TMS 602 - Article 2.1 and 2.6 A |
| b. Mortar mix designs and mortar tests performed in accordance with the property specification of ASTM C270. | --- | P | TMS 602 - Article 2.1 and 2.6 A |
| c. Grout mix designs indicating type and proportions of the ingredients according to the proportion requirements of ASTM C476 | --- | P | TMS 602 - Article 2.2 |
| d. Grout mix designs and grout strength test performed in accordance with ASTM C476 | --- | P | TMS 602 - Article 2.2 |
| e. Grout compressive strength tests performed in accordance with ASTM C1019, and slump flow and Visual Stability Index (VSI) as determined by ASTM C1611/C1611M. | --- | P | TMS 602 - Article 2.2 |
| f. Construction procedures cold weather (temperature below 40°F) or hot weather (temperature above 90°F) | --- | P | TMS 602 - Article 1.8 C and 1.8 D |
| 4. As masonry construction begins, verify that the following are in compliance: | --- | --- | |
| a. Proportions of site-prepared mortar | --- | P | TMS 602 - Article 2.1 and 2.6 A |
| b. Construction of mortar joints | --- | P | TMS 602 - Article 3.3 B |
| c. Location of reinforcement and connectors | --- | P | TMS 602 - Article 3.4 |
| 5. Prior to grouting, verify that the following are in compliance: | --- | --- | --- |
| a. Grout space. | --- | P | TMS 602 - Article 3.2 D and 3.2 F |
| b. Grade, type, and size of reinforcement and anchor bolts | --- | P | TMS 402 - Sec 1.16<br>TMS 602 - Article 2.4 and 3.4 |
| c. Placement of reinforcement and connectors (including horizontal joint reinforcement) | --- | P | TMS 402 - Sec 1.16<br>TMS 602 - Article 3.2 E and 3.4 |
| d. Proportions of site-prepared grout | --- | P | TMS 602 - Article 2.6 B |
| e. Construction of mortar joints | --- | P | TMS 602 - Article 3.3 B |
| 6. Verify during construction: | --- | --- | --- |
| a. Size and location of structural elements | --- | P | TMS 602 - Article 3.3 F |
| b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction | --- | P | TMS 402 - Sec. 1.16.4.3, 1.17.1 |
| c. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F) | --- | P | TMS 602 - Article 1.8 C and 1.8 D |
| d. Placement of grout is in compliance | C | --- | TMS 602 - Article 3.5 |
| 7. Observe preparation of grout specimens, mortar specimens, and/or prisms | --- | P | TMS 602 - Article 1.4 B.2.b.3, 1.4 B.3, 1.4 B.4 |

| STRUCTURAL STEEL | Inspection Frequency | | Remarks |
|---|---|---|---|
| Where the following tasks have been be performed by the fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10. It is permitted that this tasked be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special Inspector shall review records of tasked performed by the erector's and fabricator's quality control program to verify completeness. | Obs. – Obs.erve these items on a random basis. Operations need not be delayed pending these inspections.<br><br>Perf. – Perform these tasks for each welded joint or member. | | |
| 1. Inspection of steel framing to verify compliance with details shown on the approved construction documents including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc. | --- | Obs. | AISC 360-10 N5.7 |
| 2. Review the material test reports and certifications as listed below for compliance with the construction documents.<br>a. Main structural steel material test reports<br>b. Anchor rods and threaded rods test reports<br>c. Headed stud anchors - manufacturer's certifications | Perf. | --- | AISC 360-10 N5.2 & N3.2 |
| 3. Visual Inspection Tasks Prior to Welding | --- | --- | AISC 360-10 Table N5.4-1 |
| a. Welding procedure specifications (WPSs) available | Perf. | --- | AWS D1.1/D1.1M 6.3 |
| b. Manufacturer certifications for welding consumables available. | Perf. | --- | |
| c. Material identification (type/grade) | --- | Obs. | |
| d. Welder identification system The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type. | --- | Obs. | AWS D1.1/D1.1M 6.4 (welder qualification)<br><br>(identification system not required by AWS D1.1/D1.1M) |
| e. Fit-up of groove welds (including joint geometry)<br>i. Joint preparation<br>ii. Dimensions (alignment, root opening, root face, bevel)<br>iii. Cleanliness (condition of steel surfaces)<br>iv. Tacking (tack weld quality and location)<br>v. Backing type and fit (if applicable) | --- | Obs. | AWS D1.1/D1.1M 6.5.2<br>AWS D1.1/D1.1M 5.22<br>AWS D1.1/D1.1M 5.15<br>AWS D1.1/D1.1M 5.18<br>AWS D1.1/D1.1M 5.10, 5.22.1.1 |
| f. Configuration and finish of access holes | --- | Obs. | AWS D1.1/D1.1M 6.5.2, 5.17 |
| g. Fit-up of fillet welds<br>i. Dimensions (alignment, gaps at root)<br>ii. Cleanliness (condition of steel surfaces)<br>iii. Tacking (tack weld quality and location) | --- | Obs. | AWS D1.1/D1.1M 5.22.1<br>AWS D1.1/D1.1M 5.15<br>AWS D1.1/D1.1M 5.18 |
| h. Check welding equipment | --- | Obs. | Only Required for shop Fabrication. |
| 4. Visual Inspection Tasks During Welding | --- | --- | AISC 360-10 Table N5.4-2 |
| a. Use of qualified welders | --- | Obs. | AWS D1.1/D1.1M 6.4 |
| b. Control and handling of welding consumables<br>i. Packaging<br>ii. Exposure control | --- | Obs. | AWS D1.1/D1.1M 6.2<br>AWS D1.1/D1.1M 5.3.1<br>AWS D1.1/D1.1M 5.3.2 (for SMAW),<br>AWS D1.1/D1.1M 5.3.3 (for SAW) |
| c. No welding over cracked tack welds | --- | Obs. | AWS D1.1/D1.1M 5.18 |
| d. Environmental conditions<br>i. Wind speed within limits<br>ii. Precipitation and temperature | --- | Obs. | AWS D1.1/D1.1M 5.12.1<br>AWS D1.1/D1.1M 5.12.2 |
| e. WPS followed<br>i. Settings on welding equipment<br>ii. Travel speed<br>iii. Selected welding materials<br>iv. Shielding gas type/flow rate<br>v. Preheat applied<br>vi. Interpass temperature maintained (min./max.)<br>vii. Proper position (F, V, H, OH)<br>viii. Intermix of filler metals avoided unless approved | --- | Obs. | AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21<br><br>AWS D1.1/D1.1M 5.6, 5.7 |
| f. Welding techniques<br>i. Interpass and final cleaning<br>ii. Each pass within profile limitations<br>iii. Each pass meets quality requirements | --- | Obs. | AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24<br>AWS D1.1/D1.1M 5.30.1 |
| 5. Visual Inspection Tasks After Welding | --- | --- | AISC 360-10 Table N5.4-3 |
| a. Welds cleaned | --- | Obs. | AWS D1.1/D1.1M 5.30.1 |
| b. Size, length and location of welds | Perf. | --- | AWS D1.1/D1.1M 6.5.1 |
| c. Welds meet visual acceptance criteria<br>i. Crack prohibition<br>ii. Weld/base-metal fusion<br>iii. Crater cross section<br>iv. Weld profiles<br>v. Weld size<br>vi. Undercut<br>vii. Porosity | Perf. | --- | AWS D1.1/D1.1M 6.5.3<br>AWS D1.1/D1.1M Table 6.1(1)<br>AWS D1.1/D1.1M Table 6.1(2)<br>AWS D1.1/D1.1M Table 6.1(3)<br>AWS D1.1/D1.1M Table 6.1(4), 5.24<br>AWS D1.1/D1.1M Table 6.1(6)<br>AWS D1.1/D1.1M Table 6.1(7)<br>AWS D1.1/D1.1M Table 6.1(8) |
| d. Arc strikes | Perf. | --- | AWS D1.1/D1.1M 5.29 |
| e. k-area. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld. | Perf. | --- | Not addressed in AWS but see AISC (1997b). See Commentary Section A3.1c and Section J10.8. |
| f. Backing removed and weld tabs removed and finished, and fillet welds added (if required) | Perf. | --- | AWS D1.1/D1.1M 5.10, 5.31 |
| g. Repair activities | Perf. | --- | AWS D1.1/D1.1M 6.5.3, 5.26 |
| h. Document acceptance or rejection of welded joint or member | Perf. | --- | AWS D1.1/D1.1M 6.5.4, 6.5.5 |

| STRUCTURAL STEEL CONT. | Inspection Frequency | | Remarks |
|---|---|---|---|
| 6. Nondestructive Testing (NDT) of Welded Joints | Ultrasonic testing (UT), magnetic particle testing (MT), penetrant testing (PT) and radiographic testing (RT), where required, shall be performed by Special Inspector in accordance with AWS D1.1/D1.1M.<br>NDT of welds completed in a fabricator's shop may be performed by that fabricator when fabricator is AISC Certified or approved by the Building Official where applicable. When the fabricator performs the NDT, the Special inspection agency shall review the fabricator's NDT reports. All NDT of welds completed in the field shall be performed by the Special Inspector. Acceptance criteria shall be in accordance with AWS D1.1/D1.1M for *statically loaded* structures, unless otherwise designated in the *design drawings* or project *specifications*. | | |
| a. UT all complete penetration groove welds subject to transversely applied tension loading in a butt, T- and corner joints in material 5/16" thick or greater. MT shall be performed on 25% of all beam-to-column CJP groove welds. | Perf. | --- | AISC 360-10 N5.5b & AISC 341-10 J6.2b |
| b. Thermally cut surfaces of access holes when material thickness is greater than 2" shall be tested by MT or PT. Any crack shall be deemed unacceptable. | Perf. | --- | AISC 360-10 N5.5c |
| c. Establish weld soundness of welded joint subject to fatigue by RT of UT for the following joints: | Perf. | --- | Reduction in rate of UT is prohibited.<br>AISC 360-10 N5.5d |
| d. k-Area NDT: Where welding of doubler plates, continuity plates or stiffeners has been performed the web shall be tested for cracks using MT. | Perf. | --- | The MT inspection area shall include the k-area base metal within 3-in if the weld and shall be performed within 48 hours following completion of the welding. AISC 341-10 J6.2a |
| e. Base Metal NDT for Lamellar Tearing and Laminations: After joint completion, base metal thicker than 1-1/2" loaded in tension in the through-thickness direction in tee and corner joints, where the connected material is greater than 3/4" and contains CJP groove welds, shall be UT for discontinuities behind and adjacent to the fusion line of such welds. | Perf. | --- | Any base metal discontinuities found within *t*/4 of the steel surface shall be accepted or rejected on the basis of criteria of AWS D1.1/D1.1M Table 6.2, where is the thickness of the part subjected to the through-thickness strain. AISC 341-10 J6.2c |
| f. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to EOR or owner submit to contractor. | Perf. | --- | AISC 360-10 N5.5g |
| g. Review NDT test reports performed by fabricator | --- | --- | AISC 360-10 N7 |
| 7. Inspection Tasks Prior to Bolting | | | Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints.<br><br>AISC 360-10 Table N5.6-1 |
| a. Manufacturer's certifications available for fastener materials | Perf. | --- | RCSC 2.1 & 9.1 |
| b. Fasteners marked in accordance with ASTM requirements | Perf. | --- | RCSC Figure C-2.1 & 9.1 (Also See ASTM Standards) |
| c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | --- | Obs. | RCSC 2.3.2, 2.7.2 & 9.1 |
| d. Proper bolting procedure selected for joint detail | --- | Obs. | RCSC 4 & 8 |
| e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | --- | Obs. | RCSC 3, 9.4 & 9.3 |
| f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used, not required for Snug tight bolts | --- | Obs. | RCSC 7 & 9.2 |
| g. Proper storage provided for bolts, nuts, washers and other fastener components | --- | Obs. | RCSC 2.2,8 & 9.1 |
| 8. Inspection Tasks During Bolting | | | Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. Special Inspector need not be present during bolt pretensioning procedures. AISC 360-10 Table N5.6-2 |
| a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required | --- | Obs. | RCSC 8.1 & 9.1 |
| b. Joint brought to the snug-tight condition prior to the pretensioning operation | --- | Obs. | RCSC 8.1 & 9.1 |
| c. Fastener component not turned by the wrench prevented from rotating | --- | Obs. | RCSC 8.2 & 9.2 |
| d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges | --- | Obs. | RCSC 8.2 & 9.2 |
| 9. Inspection Tasks After Bolting | --- | --- | AISC 360-10 Table N5.6-3 |
| a. Document acceptance or rejection of bolted connections | Perf. | --- | |

| STEEL DECK | Inspection Frequency | | Remarks |
|---|---|---|---|
| 1. Material verification of steel deck.<br>a. Identification markings to conform to ASTM standards specified in the approved construction documents<br>b. Manufacturer's certified test reports. | --- | P | --- |
| 2. Verify general alignment and deck lap. | --- | P | --- |
| 3. Verify welds for size and pattern. | --- | P | --- |
| 4. Inspection of welding at floor and roof deck | --- | P | in accordance with AWS D1.3 |
| 5. Verify spacing and type of sidelap attachments. | --- | P | --- |
| 6. Inspect welding operations, screw attachment, bolting, anchoring, and other fastening of components within the lateral force resisting system along including shear walls, braces, diaphragms, collectors (drag struts) and hold downs. | --- | P | --- |

**CONTRACTOR RESPONSIBILITIES**

1. Contractor shall submit to the Building Official, Owner, and the Architect a written statement of responsibility that contains the following:
   a. Acknowledgment of awareness of the special requirements contained in the Statement of Special Inspections for the main wind- or seismic force-resisting system or a wind- or seismic-resisting component listed in the statement of special inspections.
2. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.
3. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.
4. Contractor has the following responsibilities to the Special Inspector:
   a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change orders and field orders prior to inspection of work contained therein).
   b. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
   c. Cooperate with Special Inspector and provide access to work.
   d. Provide samples of materials to be tested in required quantities.
   e. Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
   f. Provide labor to assist Special Inspector in performing tests/inspections.
5. Contractor shall perform the following:
   a. SOILS
      i. Identify soils to be used as structural fill.
   b. CAST-IN-PLACE CONCRETE
      i. Establish concrete mix design proportions in accordance with the specifications and ACI 318, Chapter 5.
      ii. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.
      iv. Submit manufacturer's data for tension and compression splicers.
   c. NON-SHRINK GROUTING
      i. Submit product data sheets for non-shrink grout that shows compliance with the Construction Documents and with ASTM C1107 for fluid or flowable grouts, prior to placement of grout.
   d. CONCRETE MASONRY
      i. Submit a certification from each manufacturer or supplier stating that the following materials comply with the Construction Documents:
         1. Concrete masonry units.
         2. Mortar materials: Portland cement, hydrated lime, and aggregates.
         3. Grout materials: Portland cement and aggregates.
         4. Joint reinforcement steel.
         5. Reinforcing steel.
   e. STRUCTURAL STEEL
      i. If fabricator or erector is not AISC certified, the fabricator and/or erector shall establish and maintain *quality control* procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel Building, AISC 360-10 and the *construction documents*. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the fabricator and Erector.
         1. Make available the documents listed in AISC 360-10 N3.2 in electronic or printed form for review by the EOR of the EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted:
   f. POST-INSTALLED ANCHORS
      i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place.
   g. STEEL DECK
      i. Submit manufacturer's certificate of compliance that the supplied steel deck complies with the Construction Documents.


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018


NOT FOR CONSTRUCTION


Structural Design Group
220 Great Circle Road Suite 106 Nashville, Tennessee 37228 p. 615.255.5537 f. 615.255.1486
SDG Project No. 2022-039.00


STRUCTURAL QUALITY ASSURANCE PLAN
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY


M,E,&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537


BG# 22-207

Project No: 2148
Drawn By: CCA
Rev'd By: CH / DH

| SHEET RELEASE | | |
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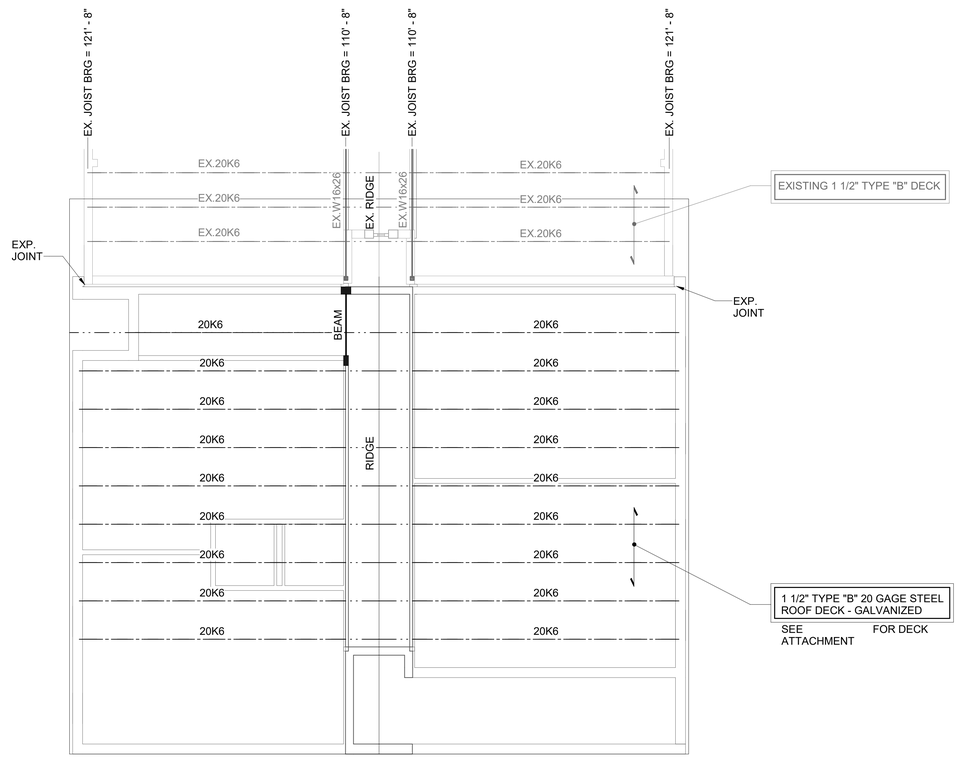
DESIGN DEVELOPMENT

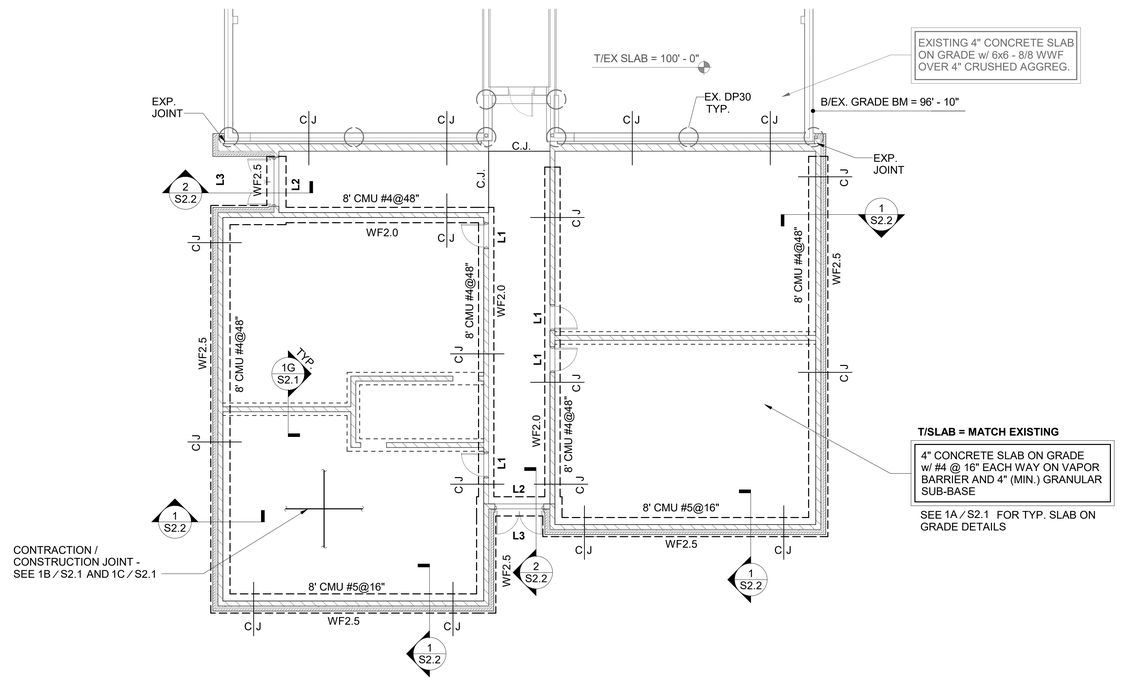
S0.2

STRUCTURAL QUALITY ASSURANCE PLAN
DATE ISSUED:
FEBRUARY 2022




## ROOF FRAMING PLAN

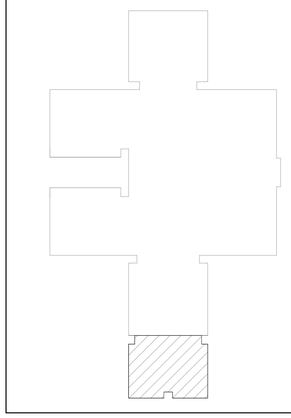
1/8" = 1'-0"




## FOUNDATION PLAN

1/8" = 1'-0"

KEYPLAN



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101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

Structural Design Group
220 Great Circle Rd. Suite 106
Nashville, TN 37228
P 615.255.5537
SDG Project No. 2022-107.00

# FOUNDATION AND ROOF FRAMING PLANS

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

M.E.&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

| | |
|---|---|
| BG# | 22-207 |
| Project No: | 2148 |
| Drawn By: | CCA |
| Rev'd By: | CH / DH |

| SHEET RELEASE | |
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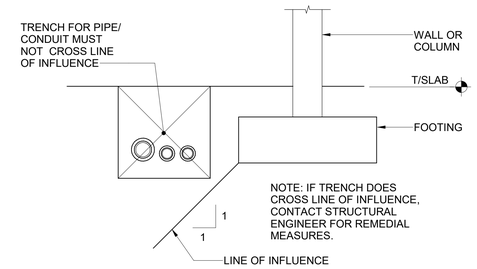
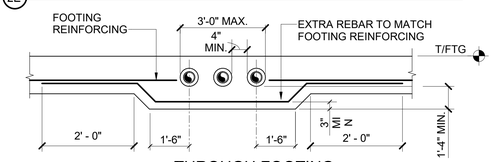
DESIGN DEVELOPMENT

S1.1

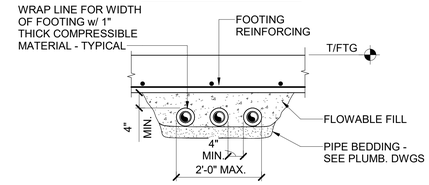
FOUNDATION AND ROOF FRAMING PLANS
DATE ISSUED:
FEBRUARY 2022



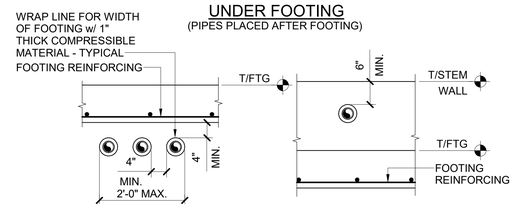

2E PIPE/CONDUIT TRENCH PARALLEL TO FOOTING




THROUGH FOOTING



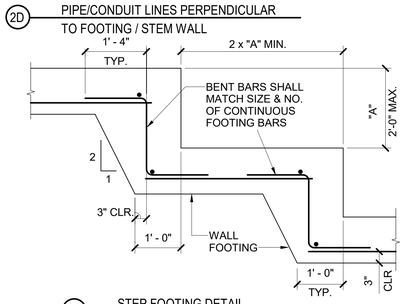

UNDER FOOTING
(PIPES PLACED AFTER FOOTING)



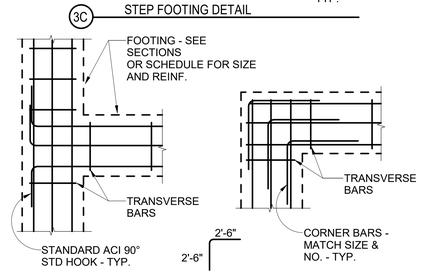

UNDER FOOTING
(PIPES PLACE PRIOR TO FOOTING)

THRU STEM WALL

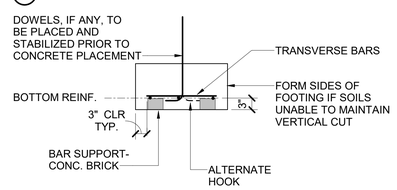
2D PIPE/CONDUIT LINES PERPENDICULAR TO FOOTING / STEM WALL




3C STEP FOOTING DETAIL

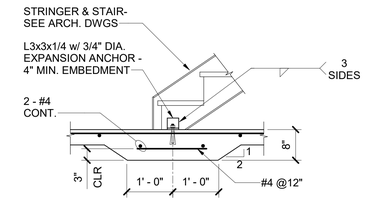



2B FOOTING CORNER REINFORCEMENT

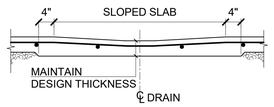



2A TYPICAL CONTINUOUS FOOTING DETAIL

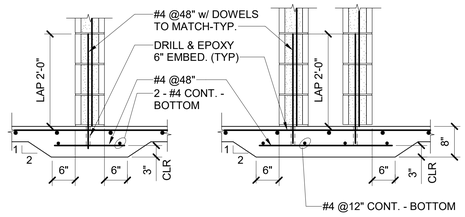
## 2 TYPICAL FOOTING DETAILS




1J THICKENED SLAB-ON-GRADE AT AT STEEL STAIR STRINGERS



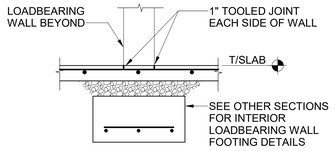

1H SLOPED SLAB AT FLOOR DRAIN



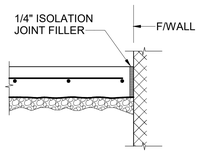

AT CONTINUOUS SLAB

AT DOUBLE WALL

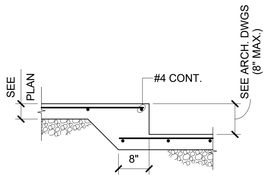
1G THICKENED SLAB AT NON-LOADBEARING CMU WALLS



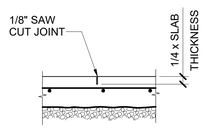

1F CONTRACTION JOINT AT DOORS



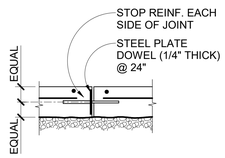

1D ISOLATION JOINT



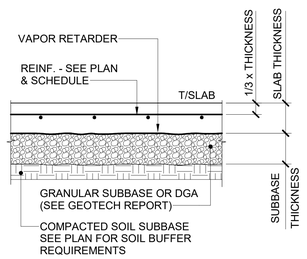

1E SLAB RECESS




1B CONTRACTION JOINT
(AT 16'-0" MAX.)




1C CONSTRUCTION JOINT




1A TYPICAL SLAB SECTION

## 1 TYPICAL SLAB-ON-GRADE DETAILS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

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Structural Design Group
220 Great Circle Rd.
Suite 106
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p 615.255.5537
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SDG Project No: 2022-107.00

FOUNDATION SECTIONS AND DETAILS
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

M.E.&P Engineer:
Staggs & Fisher
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p 859.271.3246
Structural Engineer:
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| Project No: | 2148 |
| Drawn By: | CCA |
| Rev'd By: | CH / DH |

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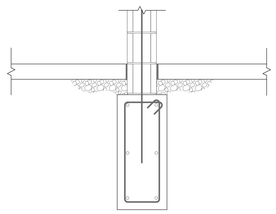
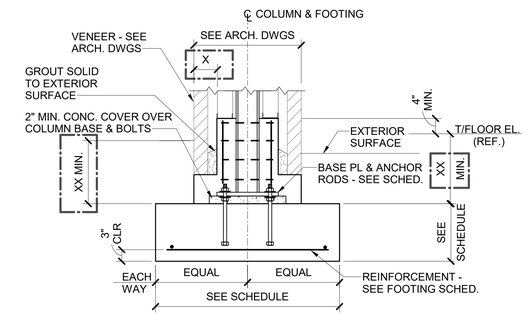
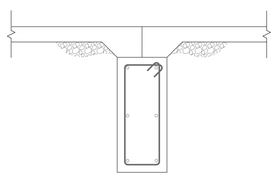


D SECTION AT EXISTING




3 SECTION AT EXTERIOR COLUMNS



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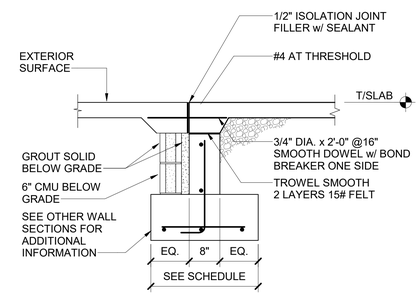
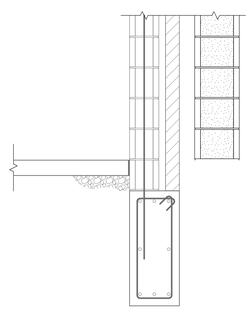
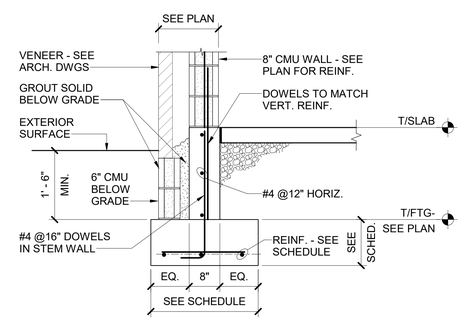



2 SECTION AT DOOR AT 8" CMU WALL



A SECTION AT EXISTING




1 SECTION AT EXTERIOR AT LOADBEARING WALL

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| Rev'd By: | CH / DH |

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FOUNDATION SECTIONS AND DETAILS
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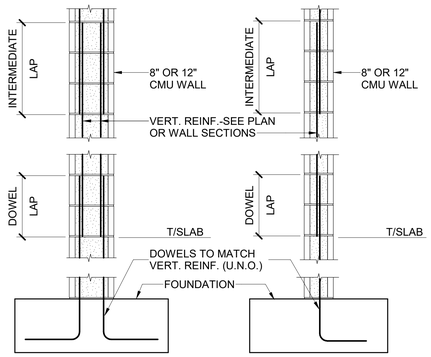
| CMU LAP SPLICE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| BAR SIZE | LAP LENGTH | | | | | |
| | DOWEL | | INTERMEDIATE | | | |
| | | | 8" CMU | | 12" CMU | |
| | C | F | C | F | C | F |
| #4 | 16" | 16" | 16" | 16" | 16" | 16" |
| #5 | 16" | 24" | 24" | 24" | 24" | 24" |
| #6 | 24" | 48" | 40" | 48" | 26" | 48" |
| #7 | 24" | 60" | 54" | 60" | 36" | 60" |
| #8 | 32" | 90" | 80" | 90" | 52" | 90" |
| #9 | 32" | 114" | 104" | 114" | 64" | 114" |

**NOTE:**
C = BAR LAP FOR CENTERED REINF.
F = BAR LAP FOR FACE REINF.

F'm = 2,000 psi (MINIMUM)

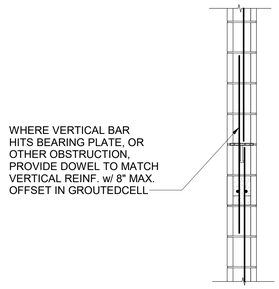
**ENGINEER NOTE:** CHECK DOWEL AND LAP REQUIREMENTS IF WALL IS SHEARWALL



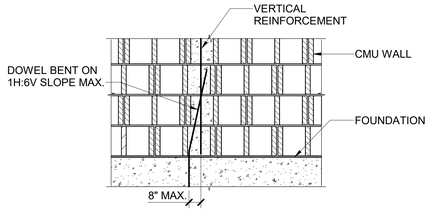

REINF. IN FACE "F" OF WALL

REINF. CENTERED "C" IN WALL

## 8 CMU REINFORCEMENT LAP SPLICE SCHEDULE

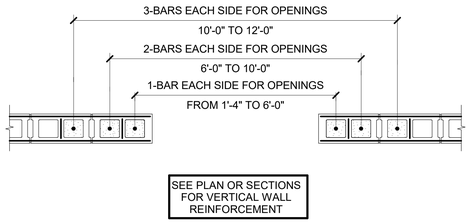



## 5 NON-CONTACT LAP SPLICE DETAIL

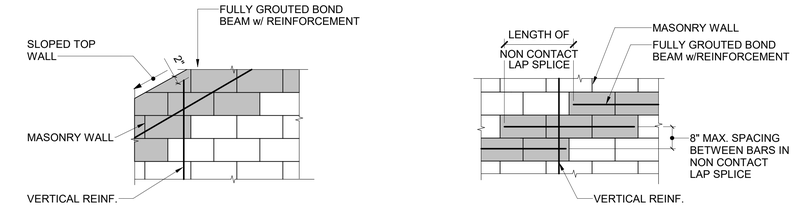



ELEVATION VIEW TOLERANCE

## 4 DOWEL-PERMITTED BENDING DETAIL

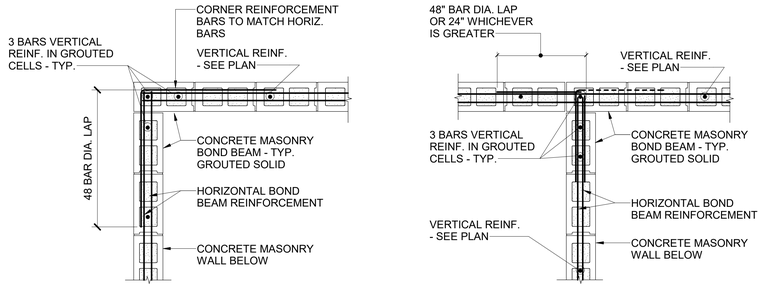



## 3 CMU WALL OPENING DETAIL




SLOPED BOND BEAM

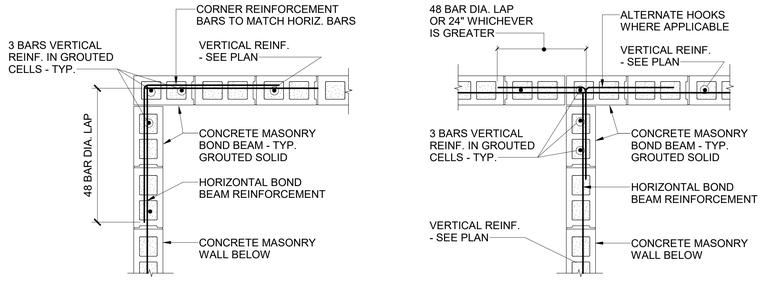
STEPPED BOND BEAM




AT CORNERS

AT INTERSECTIONS

DOUBLE ROW REINFORCEMENT



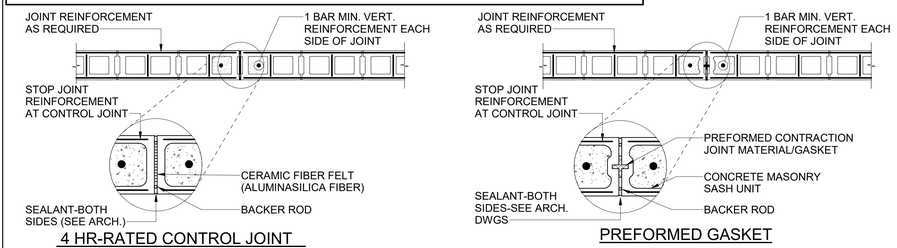

AT CORNERS

AT INTERSECTIONS

SINGLE ROW REINFORCEMENT

## 2 CMU BOND BEAM DETAILS

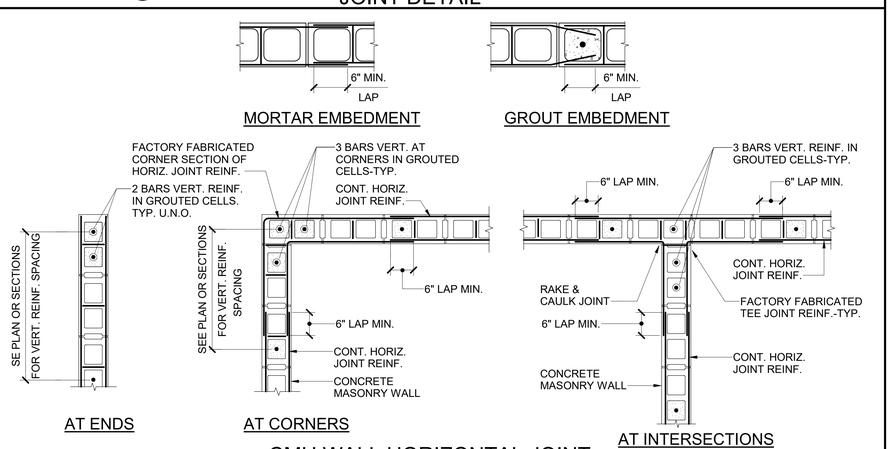
**NOTE:**
1. SEE PLANS FOR LOCATION OF CONTRACTION JOINTS AND STRUCTURAL NOTES FOR MAX. SPACING.
2. LOCATE CONTRACTION JOINTS 2'-0" MINIMUM FROM SIDES OF OPENINGS.
3. CJ (CMU CONTRACTION JOINT) SHOWN ON PLANS INDICATES APPROXIMATE LOCATIONS OF CONTRACTION JOINTS. LOCATIONS ARE INTENDED TO COINCIDE WITH CMU COURSING. COORDINATE LOCATION OF JOINTS WITH ARCH. DWGS. SEE ARCH. DWGS FOR LOCATIONS OF BRICK JOINTS.
4. COORDINATE LOCATIONS w/ARCH. DWGS.
5. DO NOT CONSTRUCT CONTRACTION JOINT THROUGH BOND BEAM.




4 HR-RATED CONTROL JOINT (IF NEEDED)

PREFORMED GASKET

## 7 CMU WALL CONTRACTION/CONTROL JOINT DETAIL




MORTAR EMBEDMENT

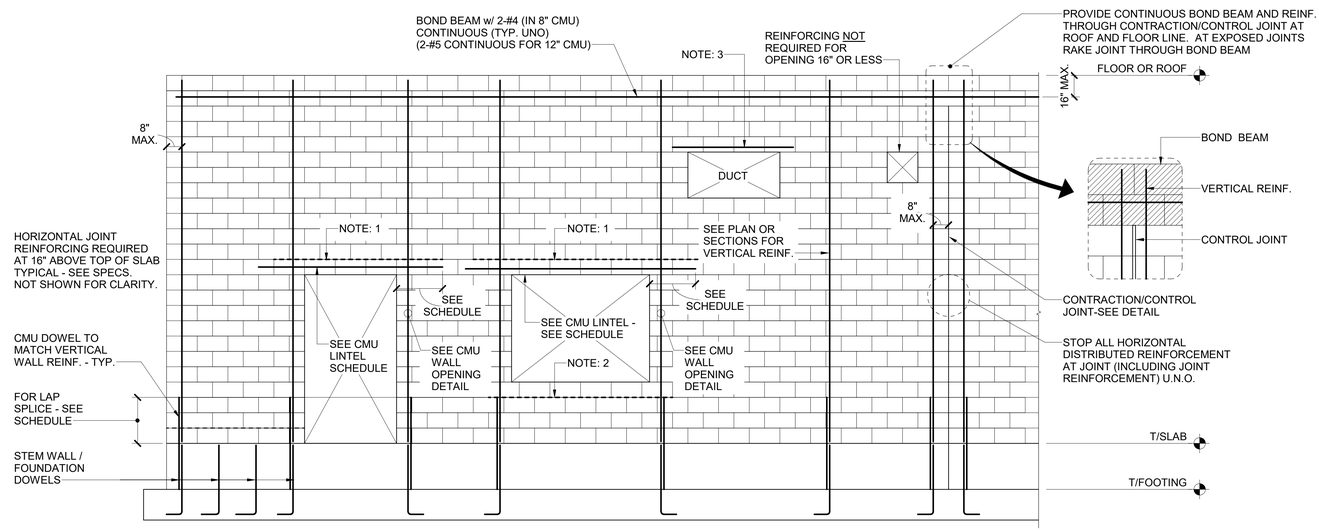
GROUT EMBEDMENT

AT ENDS

AT CORNERS

AT INTERSECTIONS

## 6 CMU WALL HORIZONTAL JOINT REINFORCEMENT DETAIL




**NOTE:**
1. ADD HORIZONTAL JOINT REINFORCEMENT ABOVE LINTEL. EXTEND 4'-0" EACH SIDE OF OPENING.
2. ADD HORIZONTAL JOINT REINFORCEMENT BELOW CMU SILL. EXTEND 4'-0" EACH SIDE OF OPENING.
3. FOR MECHANICAL/PLUMBING PENETRATIONS, PROVIDE LINTEL OVER CMU OPENING PER UNMARKED CMU LINTEL SCHEDULE.

## 1 TYPICAL CMU WALL REINFORCING ELEVATION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101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


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MASONRY SECTIONS AND DETAILS
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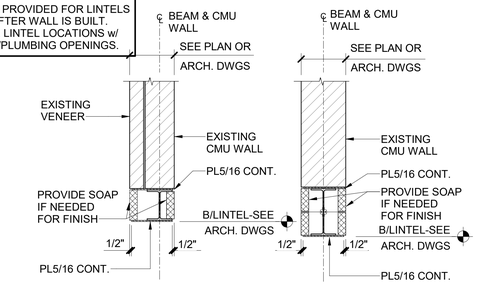
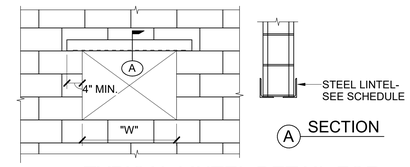
**NOTE:**
DETAILS ARE PROVIDED FOR LINTELS INSTALLED AFTER WALL IS BUILT. COORDINATE LINTEL LOCATIONS w/ MECH./ELEC./PLUMBING OPENINGS.




| WIDTH OF OPENING "W" | STEEL LINTEL |
|---|---|
| TO 1'-0" | NONE |
| 1'-1" TO 3'-4" | L5x3x5/16 (LLV) BOTH SIDES |
| OVER 3'-4" TO 6'-0" | USE BEAM- W8x24 |

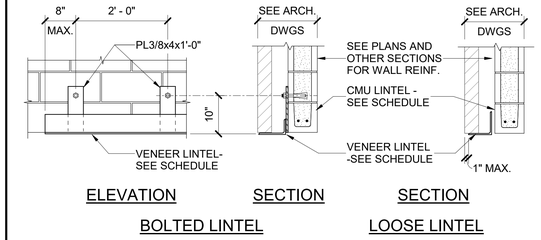
NOTE:
IF LINTEL IS EXPOSED TO VIEW, USE BEAM IN LIEU OF ANGLE.




## 3 TYPICAL LINTEL DETAIL FOR OPENING IN EXISTING CMU WALL

| VENEER LINTEL SCHEDULE WITH CMU | | |
|---|---|---|
| **OPENING WIDTH** | **ANGLE SIZE** | **REMARKS** |
| 0'-0" TO 4'-0" | L5x3 1/2x 5/16 (LLH) | LOOSE |
| 4'-1" TO 8'-0" | L5x5x 5/16 | LOOSE |
| OVER 8'-0" | L7x4x 5/16 | BOLTED w/ 5/8" DIA. SCREW ANCHORS @ 2'-0" (5" EMBED) |

NOTE: 8" MIN. BEARING EACH END-TYP.
STEEL EXPOSED TO ELEMENTS SHALL BE GALVANIZED.



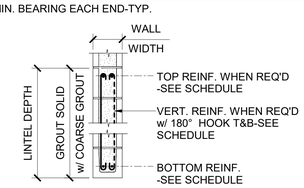

## 2 VENEER LINTEL SCHEDULE WITH CMU

| MARKED "LX" CMU LINTEL SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| MARK | WALL THICK'S | LINTEL DEPTH | REINFORCEMENT | | | |
| | | | BOTTOM | TOP | VERTICAL | BEARING AND LENGTH |
| L1 | 8 | 8 | 2-#5 | - | - | 8" |
| L2 | 8 | 16 | 2-#5 | - | - | 8" |
| L3 | 8 | 24 | 2-#5 | - | - | 16" |
| L4 | 12 | 16 | 2-#5 | - | - | 16" |
| | | | | | | |

**NOTE:**
1. FILL CMU CORES AT LINTEL BEARING w/ 2500 psi COARSE GROUT. REINFORCE JAMBS w/ FULL HEIGHT REINFORCING PER CMU WALL OPENING DETAIL.

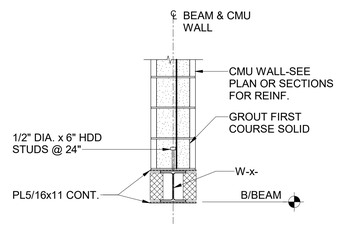
| UNMARKED CMU LINTEL SCHEDULE | | | |
|---|---|---|---|
| WALL OPENING | LINTEL DEPTH | REINFORCING | BEARING AND LENGTH |
| UP TO 4'-0" | 8" | 2-#4 BOTTOM | 8" |
| 4'-1" TO 6'-0" | 8" | 2-#5 BOTTOM | 8" |
| 6'-1" TO 8'-0" | 16" | 2-#5 BOTTOM | 16" |
| 8'-1" TO 10'-0" | 16" | 2-#6 BOTTOM | 16" |

NOTE: 8" MIN. BEARING EACH END-TYP.

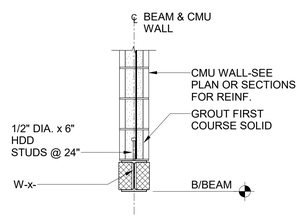



SECTION

## 1 CMU LINTEL SCHEDULES AND DETAILS

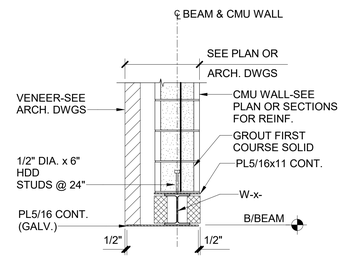



AT 12" CMU

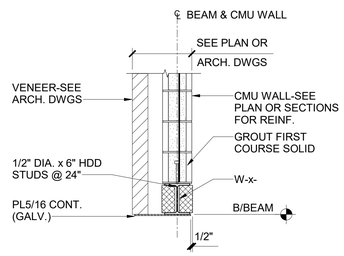



AT 8" CMU

## 6 TYPICAL STEEL LINTEL DETAIL AT INTERIOR AT INTERIOR WALL



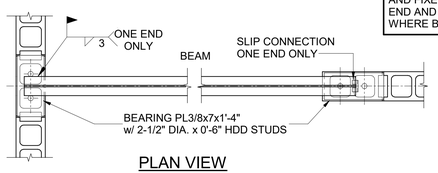

AT 12" CMU



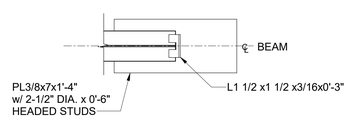

AT 8" CMU

## 5 TYPICAL STEEL LINTEL DETAIL AT EXTERIOR WALL

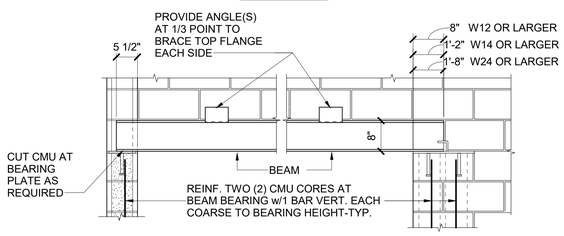
**NOTE:**
IF BEAM BEARS ON MASONRY WALL EACH END, PROVIDE SLIP CONNECTION AT ONE END AND FIXED CONNECTION AT OTHER END. IF BEAM FRAMES TO STEEL COLUMN ON ONE END AND BEARS ON MASONRY AT OTHER END, PROVIDE SLIP CONNECTION AT END WHERE BEAM BEARS ON MASONRY.



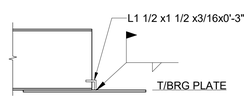

PLAN VIEW




PLAN




ELEVATION VIEW




SLIP CONNECTION DETAIL
AT ONE END OF BEAM

## 4 TYPICAL STEEL BEAM BEARING ON CMU WALL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## REVISIONS

| # | DATE | DESCRIPTION |
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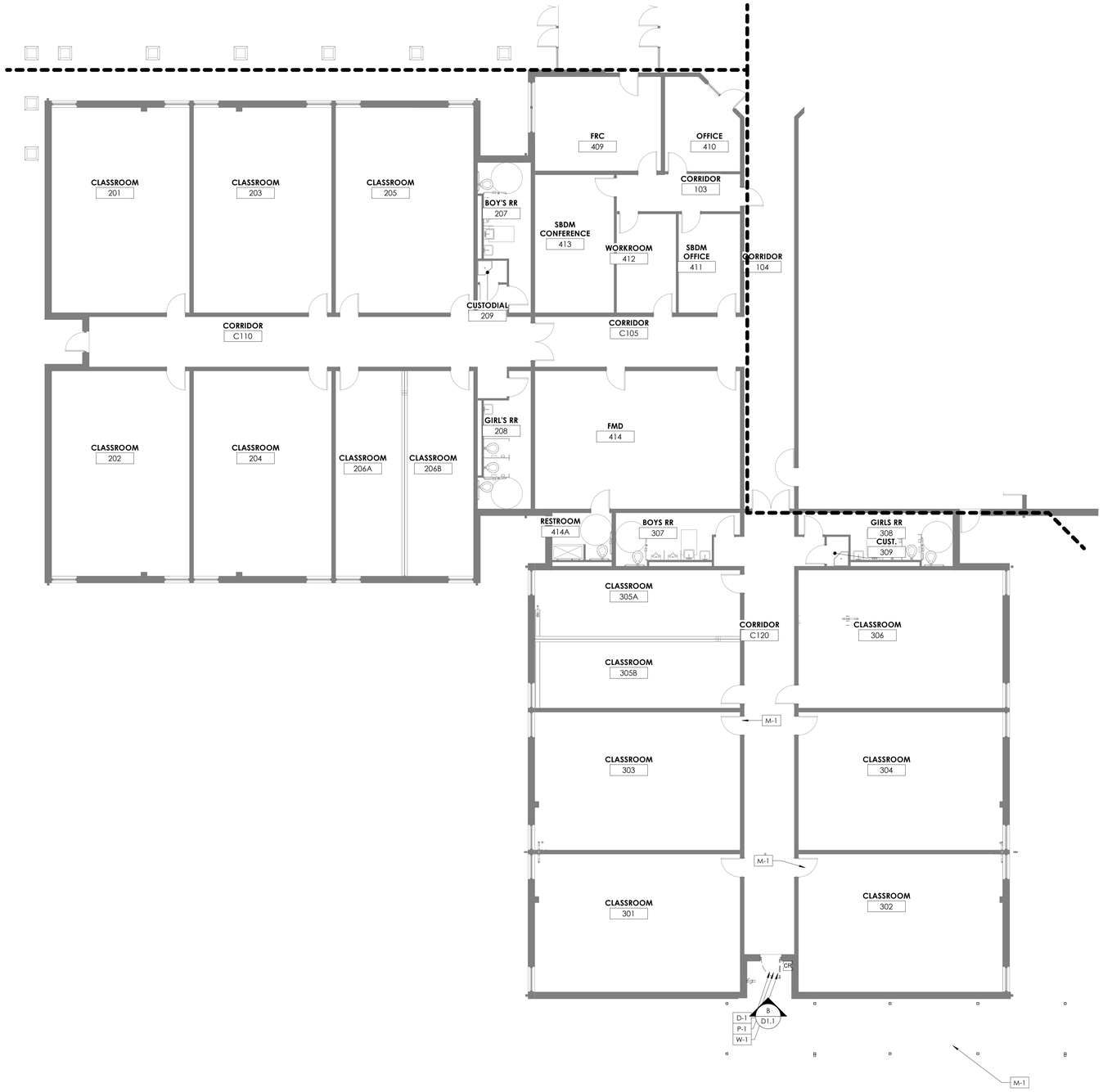
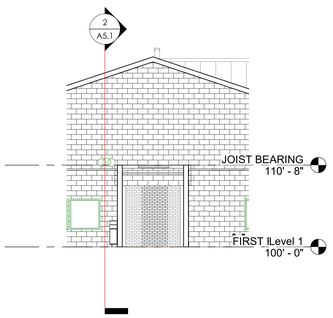



DEMO FLOOR PLAN - AREA A
1/8" = 1'-0"
A D1.1




ELEVATION DEMO
1/8" = 1'-0"
B D1.1

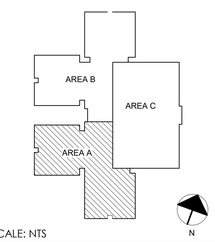
## GENERAL DEMOLITION NOTES

1. THESE DEMOLITION PLANS ARE MEANT TO BE A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK WHETHER SHOWN HERE OR NOT.
2. REFER TO SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION WORK REQUIRED IN SPECIFIC AREAS OF WORK.
3. CONTRACTOR SHALL VERIFY LOAD BEARING CONDITIONS OF WALLS PRIOR TO THEIR DEMOLITION. ANY WALL FOUND TO BE LOAD BEARING WHICH IS NOT SO NOTED SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ITS DEMOLITION.
4. WHERE WALLS OR OTHER ITEMS ARE REMOVED, CLEAN AND REPAIR FLOORS TO FLUSH CONDITION SUITABLE TO RECEIVE FLOOR FINISH. WHERE MASONRY WALLS EXTEND THROUGH SLAB AND REST ON FOOTING, REMOVE BLOCK TO MINIMUM OF 4" BELOW FINISH FLOOR. FILL FLUSH WITH CONCRETE. PROVIDE MIN. 4" CONCRETE FILL AT ABANDONED PIPES OR OTHER OPENINGS IN THE FLOOR SLABS WHICH ARE EXPOSED OR CREATED BY OTHER DEMOLITION. GRIND TO FLUSH AS RQD.
5. ALL CONCRETE BLOCK, AND/OR BRICK VENEER INFILL OR PATCHES IN EXISTING MASONRY SHALL BE TOOTHED INTO ADJACENT SOUND MASONRY IN FULL UNITS U.N.O. PARTIAL MASONRY UNITS ADJACENT TO OPENINGS SHALL BE REMOVED AS RQD. TO ALLOW TOOTHING. WHERE NEW MASONRY CONSTRUCTION JOINS EXISTING MASONRY WALLS, REMOVE MASONRY UNITS AT CONNECTIONS AS NECESSARY TO PERMIT TOOTHING OF NEW CONSTRUCTION WHETHER OR NOT SUCH DEMOLITION IS SPECIFICALLY SHOWN ON DEMOLITION PLANS. OVER-DEMOLISH NEW MASONRY UNITS TO PROVIDE FINISHED OPENING. PROVIDE NEW MASONRY TIES AND HORIZONTAL JOINT REINFORCING PER SPECIFICATIONS. NEW MASONRY CONSTRUCTION SHALL PRECISELY MATCH ADJACENT EXISTING MASONRY IN COLOR, TEXTURE, PATTERN AND FINISH, U.N.O.
6. ALL HVAC GRILLES, LOUVERS, AND OTHER MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT WHICH ARE ABANDONED AND/OR CALLED OUT TO BE REMOVED SHALL BE COMPLETELY REMOVED. OPENINGS SHALL BE INFILLED WITH NEW CONSTRUCTION MATCHING EXISTING ADJACENT CONSTRUCTION. REFER TO NOTE '1' ABOVE AND MEP DRAWINGS OF RELATED ITEMS.
7. EXISTING DOORS AND FRAMES SHOWN IN WALL TO BE DEMOLISHED SHALL BE REMOVED. PATCH AS NOTED. REMOVE ALL OTHER MATERIALS ASSOCIATED WITH DOOR THAT WILL NOT BE USED.
8. REMOVE ALL WALL MOUNTED ITEMS WHICH ARE NOT SPECIFICALLY INDICATED TO BE REMOVED BUT WHICH INTERFERE WITH, OR ARE NOT PART OF FINISHED CONSTRUCTION. OTHER SALVAGED ITEMS WHICH ARE NOT INDICATED TO BE REUSED IN THE RENOVATION OR RETURNED TO THE OWNER MAY BE SALVAGED BY THE CONTRACTOR AND REMOVED FROM THE SITE.
9. WHERE EXISTING EQUIPMENT OR CASEWORK IS REMOVED, REMOVE ALL ASSOCIATED ATTACHMENT DEVICES, ANCHORS ETC. PATCH AND REPAIR EXISTING FINISHES.
10. SEE NEW WORK PLANS FOR NEW WORK TO BE INSTALLED.

## DEMOLITION NOTES

| | | |
|---|---|---|
| D-1 | DOOR DEMOLITION NOTES: | |
| | D-1 | REMOVE EXISTING METAL FRAME, DOOR(S), AND GLAZING IN ENTIRETY. REFER TO PLANS FOR NEW WORK. |
| | MISCELLANEOUS DEMOLITION: | |
| M-1 | M-1 | REMOVE EXISTING EXTERIOR CANOPY IN ENTIRETY. COORDINATE WITH NEW WORK. REFER TO SITE FOR MORE INFORMATION |
| P-1 | | |
| W-1 | M-2 | REMOVE EXISTING RAILING AND POSTS. COORDINATE WITH NEW WORK. |
| | M-3 | REMOVE PLAQUE AND BUILDING SIGNAGE. CLEAN AND REPAIR EXISTING MASONRY. REPOINT MORTAR AS NECESSARY. |
| | M-4 | REMOVE EXISTING LOUVER AND BRICK TO MATCH NEW LOUVER SIZE. REFER TO MEP. |
| | PARTITION DEMOLITION NOTES: | |
| | P-1 | REMOVE PORTION OF EXISTING WALL. EXISTING WALL MAY BE A BEARING WALL. SHORE AND BRACE AS NECESSARY PRIOR TO DEMOLITION. |
| | WINDOW DEMOLITION NOTES: | |
| | W-1 | REMOVE EXISTING WINDOW IN ENTIRETY FOR INSTALLATION OF REPLACEMENT WINDOW. COORD. WITH NEW WORK. |

## KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018


NOT FOR CONSTRUCTION

# DEMOLITION PLAN

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY


M.E.&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222


BG# 22-207

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|---|---|
| Project No: | 2148 |
| Drawn By: | KM |
| Rev'd By: | JR |

SHEET RELEASE

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DESIGN DEVELOPMENT

# D1.1

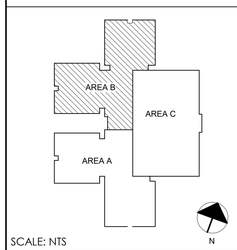
DEMOLITION PLAN

DATE ISSUED:
FEBRUARY 22, 2022

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |

KEY PLAN




SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

DEMOLITION PLAN - AREA B
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

M.E.&P Engineer:
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3264 Lochness Dr.
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Structural Engineer:
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Construction Manager:
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BG# 22-207

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| Project No: | 2148 |
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| Rev'd By: | JR |

SHEET RELEASE

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D1.2

DEMOLITION PLAN - AREA B

DATE ISSUED:
FEBRUARY 22, 2022

REVISIONS

| # | DATE | DESCRIPTION |
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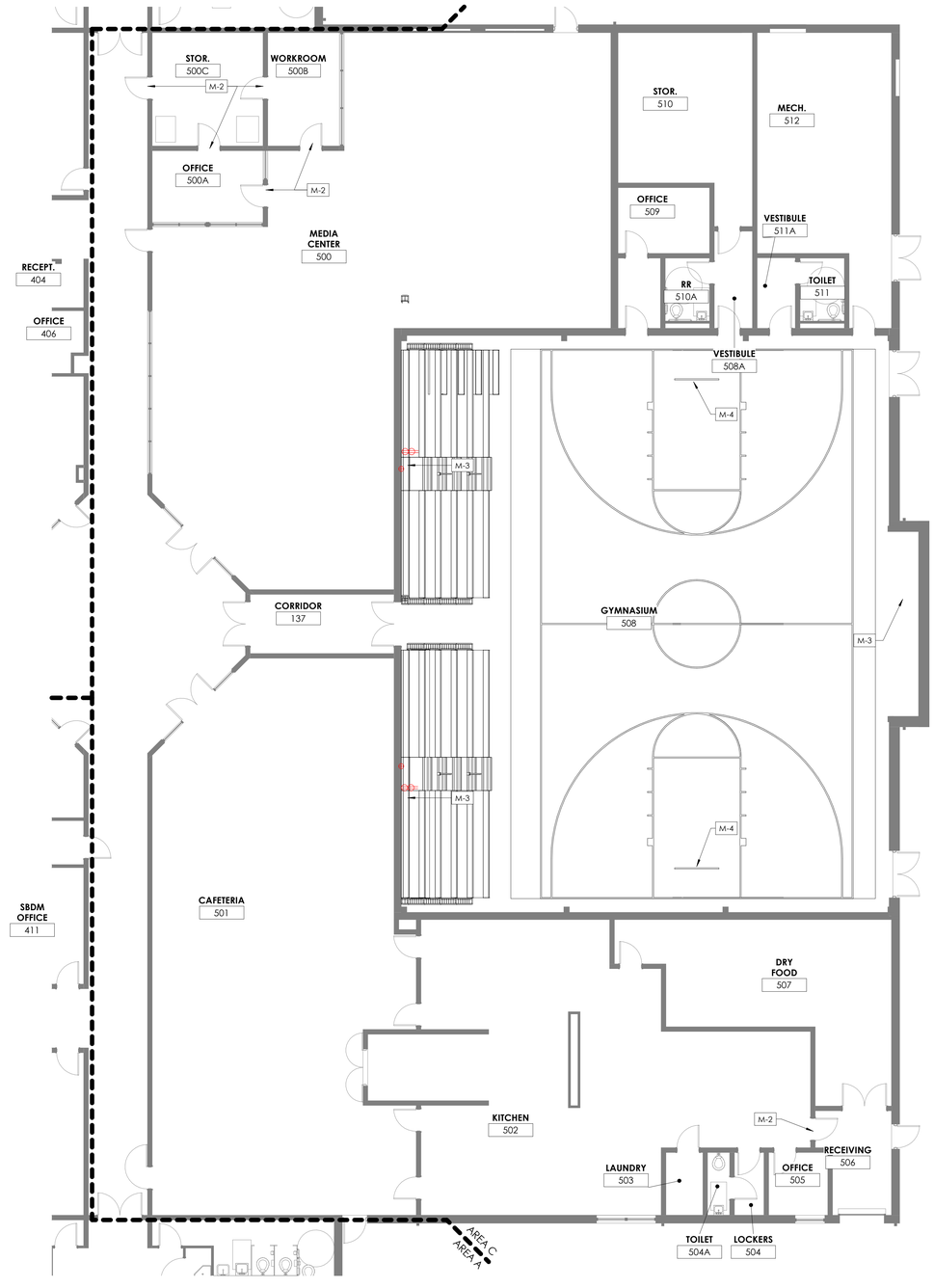
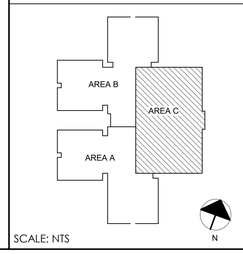



KEY PLAN

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rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

# DEMO PLAN - AREA C

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

M.E.&P Engineer:
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3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
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Nashville, TN 37228
p 615.255.5537

Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222

BG# 22-207

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|---|---|
| Project No: | 2148 |
| Drawn By: | KM |
| Rev'd By: | JR |

SHEET RELEASE

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DESIGN DEVELOPMENT

D1.3

DEMO PLAN - AREA C

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
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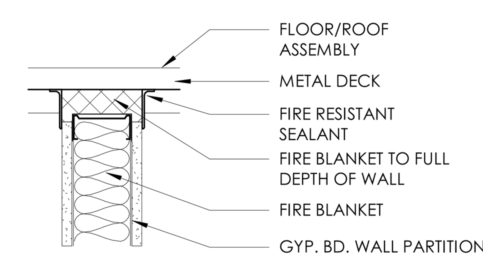
## SMOKE PARTITION, 1HR/2HR FIRESTOP @ GWB

UL DESIGN NO. HW - D - 0034 - TOP OF WALL

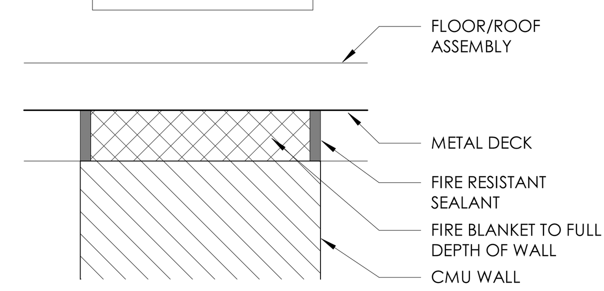



NOTE: INSTALL FIRESTOP SYSTEM PER MFR. TESTED SYSTEM. REFER TO WALL TYPES FOR NUMBER OF GYP. BD. LAYERS REQUIRED TO MEET RATING.

N.T.S.

## SMOKE PARTITION, 1HR/2HR FIRESTOP @ CMU

UL DESIGN NO. HW-D-0039 TOP OF WALL

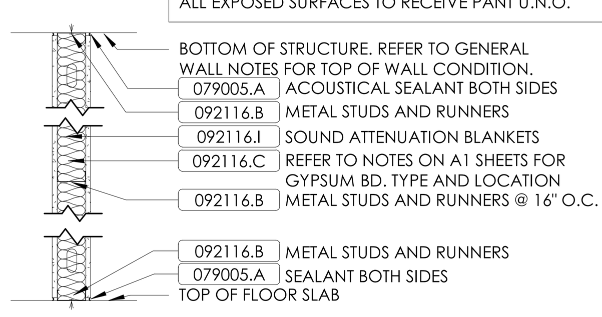



NOTE: INSTALL FIRESTOP SYSTEM PER MFR. TESTED SYSTEM.

N.T.S.

## INTERIOR GYPSUM BOARD PARTITION TYPE '2'

NOTE: ALL GYPSUM BOARD SURFACES 12" AND ABOVE SUSPENDED CEILING TO RECEIVE LEVEL 1 FINISH. EXTEND AND SEAL WALL TO BOTTOM OF DECK/STRUCTURE ABOVE ALL EXPOSED SURFACES TO RECEIVE PANT U.N.O.



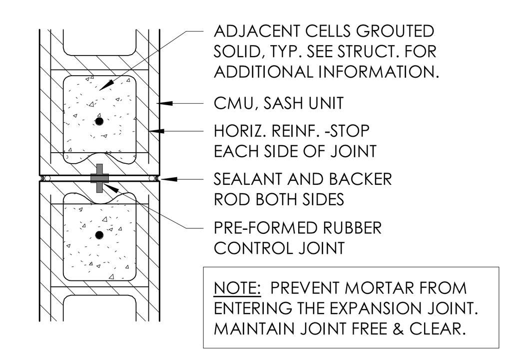

NOTE: AT 1 HOUR FIRE RATING, PROVIDE TYPE 'X' GYPSUM BD. (UL DESIGN No. U465)
NOTE: AT 2 HR. FIRE RATING, PROVIDE 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BD., BOTH SIDES. (UL DESIGN NO. U411)

WALL TYPE 2: 092116.B 5/8"; 092116.B 3-5/8"; 092116.I 3"

6" WALL TYPE 2: 092116.B 5/8"; 092116.B 6"; 092116.I 6"

SCALE : N.T.S.

## TYP. CMU EXPANSION JOINT DETAIL

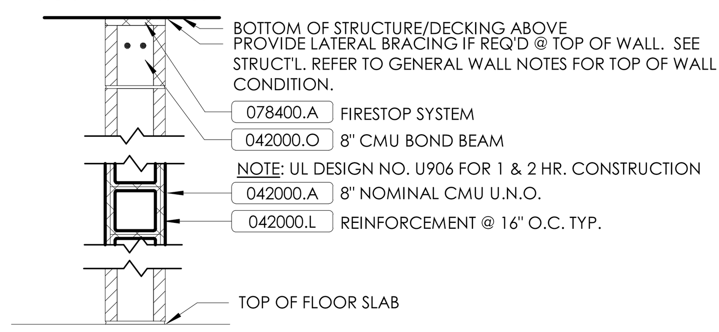



NOTE: PREVENT MORTAR FROM ENTERING THE EXPANSION JOINT. MAINTAIN JOINT FREE & CLEAR.

N.T.S.

## INTERIOR CMU PARTITION TYPE '1'

NOTE: IF JOIST OR BEAM LOCATION INTERFERES WITH NON-LOAD BEARING CMU WALL EXTENDING TO DECK ABOVE, EXTEND CMU WALL TO 8" ABOVE FINISHED CEILING HEIGHT AND CONTINUE WALL TO DECK ABOVE WITH WALL TYPE 2. REFER TO STRUC. FOR BRACING. EXTEND AND SEAL WALL TO BOTTOM OF DECK ABOVE PER GENERAL WALL NOTES. ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O.




WALL TYPE 1: 042000.A 8" NOMINAL CMU U.N.O.; 042000.L MASONRY REINFORCEMENT

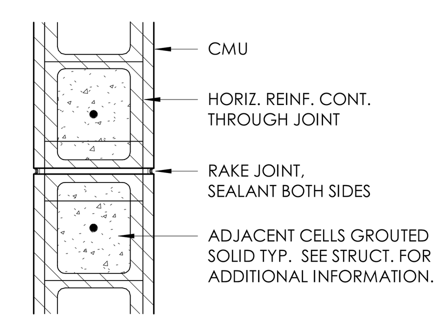
6" WALL TYPE 1: 042000.A 6" NOMINAL CMU U.N.O.; 042000.L MASONRY REINFORCEMENT

4" WALL TYPE 1: 042000.A 4" NOMINAL CMU U.N.O.; 042000.L MASONRY REINFORCEMENT

12" WALL TYPE 1: 042000.A 12" NOMINAL CMU U.N.O.; 042000.L MASONRY REINFORCEMENT

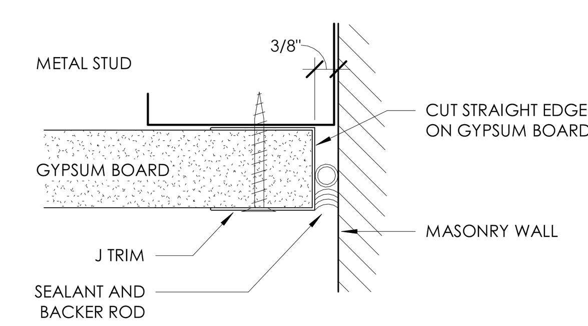
SCALE : N.T.S.

## TYP. CMU CONTROL JOINT DETAIL




N.T.S.

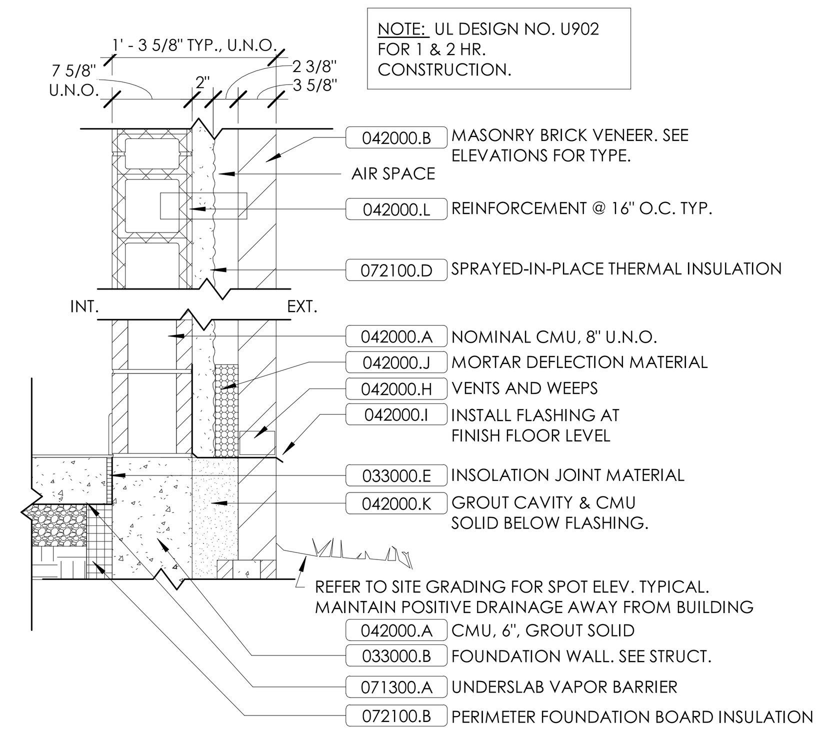
## TYP. REVEAL @ GWB/MASONRY INTERSECTION




N.T.S.

## EXTERIOR WALL TYPE 'A'

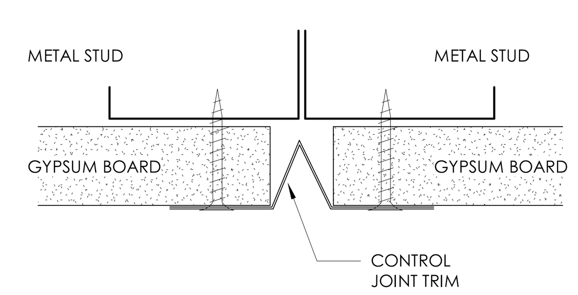
NOTE: UL DESIGN NO. U902 FOR 1 & 2 HR. CONSTRUCTION.




WALL TYPE A: EXT. MASONRY CAVITY WALL:
- 042000.B MASONRY VENEER
- AIR SPACE
- 072100.D THERMAL INSULATION
- 042000.A NOMINAL 8" CMU U.N.O.
- 099000.A PAINT ALL EXPOSED SURFACES U.N.O.

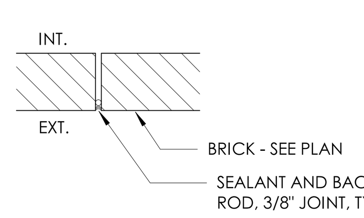
SCALE : N.T.S.

## TYP. REVEAL/EXPANSION JOINT DETAIL




N.T.S.

## TYP. BRICK EXPANSION JOINT DETAIL




N.T.S.

## ABBREVIATIONS

| | |
|---|---|
| A.F.F. | ABOVE FINISH FLOOR |
| ALT. | ALTERNATE |
| AL/ALUM. | ALUMINUM |
| ARCH. | ARCHITECT/ ARCHITECTURAL |
| BD. | BOARD |
| BIT. | BITUMINOUS |
| BLKG. | BLOCKING |
| BLDG. | BUILDING |
| B.O. | BOTTOM OF SOMETHING |
| BRG. | BEARING |
| C.J. | CONTRACTION/ CONSTRUCTION JOINT |
| CL. | CENTERLINE |
| CLG. | CEILING |
| CLR. | CLEAR |
| C.M.U. | CONCRETE MASONRY UNIT |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONT. | CONTINUOUS |
| DBL. | DOUBLE |
| DIA. | DIAMETER |
| DS. | DOWNSPOUT |
| DWG. | DRAWING |
| E.I.F.S. | EXTERIOR INSULATION FINISH SYSTEM |
| E.J. | EXPANSION JOINT |
| EQ. | EQUAL |
| EQUIP. | EQUIPMENT |
| ELEV. | ELEVATOR |
| E.O.S. | EDGE OF SLAB |
| E.R.D. | EMERGENCY ROOF DRAIN OVERFLOW |
| E.T.R. | EXISTING TO REMAIN |
| EXP. | EXPANSION |
| EXT. | EXTERIOR |
| FAB. | FABRICATE/ FABRICATION |
| FDN. | FOUNDATION |
| F.F.E. | FINISH FLOOR ELEVATION |
| F.G.E. | FINISH GRADE ELEVATION |
| FIN. | FINISH |
| FLR. | FLOOR/ FLOORING |
| F.RT. | FIRE RETARDENT |
| FT. | FEET |
| F.V. | FIELD VERIFY |
| GA. | GUAGE |
| GALV. | GALVANIZED |
| GYP. | GYPSUM |
| HORZ. | HORIZONTAL |
| HT. | HEIGHT |
| INSUL. | INSULATION |
| INT. | INTERIOR |
| JT. | JOINT |
| LAM. | LAMINATE |
| MAS. | MASONRY |
| M.E.P. | MECHANICAL, ELECTRICAL, PLUMBING |
| MFR. | MANUFACTURER |
| MAT. | MATERIAL |
| MAX. | MAXIMUM |
| MECH. | MECHANICAL |
| MEM. | MEMBRANE |
| MIN. | MINIMUM |
| MISC. | MISCELLANEOUS |
| M.O. | MASONRY OPENING |
| N.A. | NOT APPLICABLE |
| N.I.C. | NOT IN CONTRACT |
| N.T.S. | NOT TO SCALE |
| O.H. | OVERHEAD |
| OPP. | OPPOSITE |
| ORN. | ORNAMENTAL |
| PEN. | PENETRATION |
| PL. | PLATE |
| POLYISO. | POLYISOCYANURATE |
| P.S.F. | POUNDS PER SQUARE FOOT |
| P.S.I. | POUNDS PER SQUARE INCH |
| P.T. | PRESSURE TREATED |
| RAD. | RADIUS |
| REINF. | REINFORCEMENT |
| RQD. | REQUIRED |
| REV. | REVISION/ REVISED |
| R.D. | ROOF DRAIN |
| SECT. | SECTION |
| SIM. | SIMILAR |
| SPECS. | SPECIFICATIONS |
| S.S. | STAINLESS STEEL |
| SQ. | SQUARE |
| STD. | STANDARD |
| STL. | STEEL |
| STRUCT. | STRUCTURE/ STRUCTURAL |
| SYM. | SYMMETRICAL |
| SYS. | SYSTEM |
| T.O. | TOP OF SOMETHING |
| THK. | THICK |
| TYP. | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| VERT. | VERTICAL |
| V.I.F. | VERIFY IN FIELD |
| W/ | WITH |
| W/O | WITHOUT |
| W.P. | WORK POINT |
| WT. | WEIGHT |

## SYMBOLS LEGEND:

- BUILDING SECTION
- SECTION CUT / DETAIL MARKER
- DETAIL / DRAWING # — ELEVATION
- DETAIL / DRAWING # — REFERENCE DETAIL
- SPOT ELEVATION
- ROOF TYPE X — ROOF TYPES
- X" WALL TYPE X — WALL TYPES. X" DENOTES SIZE OF CMU OR STUD.
- 0000 — DOOR NUMBER
- 00 — HOLLOW METAL WINDOW & DOOR FRAME TYPE
- 00 — ALUMINUM WINDOW & STOREFRONT FRAME TYPE
- 00 — DOOR ELEVATION TYPES
- FE-1 — WALL MOUNTED FIRE EXTINGUISHER (104400)
- FE-2 — SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER (104400)

## FIRE BARRIER TYPES:

- SP — SMOKE TIGHT PARTITION: EXTEND PARTITION WALL TO DECK ABOVE, SEAL PERIMETER TO PROVIDE "SMOKE TIGHT INSTALLATION". SEAL ALL PENETRATIONS
- 1HR — 1 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.
- 2HR — 2 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.

## GENERAL PLAN NOTES

1. (NIC)-NOT IN CONTRACT. PROVIDED BY OWNER AND INSTALLED BY OTHERS.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE.
3. ALL DIMENSIONS ARE TO FACE OF STUDS, MASONRY OR TO CENTERLINE OF STRUCT'L STEEL UNLESS OTHERWISE NOTED. CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING DIMENSIONS.
4. MASONRY DIMENSIONS ARE ACTUAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR FACE OF VENEER.
5. REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" PLANS.
6. ALL EXTERIOR WALLS ARE WALL TYPE 'A' U.N.O.
7. ALL INTERIOR PARTITIONS ARE WALL TYPE '1' U.N.O.
8. PROVIDE BULLNOSE UNITS AT ALL VERTICAL OUTSIDE CONCRETE BLOCK CORNERS U.N.O.
9. PARTITION TYPES SHALL MAINTAIN THEIR CONSTRUCTION AND RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC., AND PLUMBING PENETRATIONS SHALL BE SEALED/SAFED/DAMPERED AS RQD. TO COMPLY W/ APPLICABLE CODES.
10. REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZES, LOCATIONS, CONNECTIONS, REINFORCEMENT AND OTHER REQ. PERTAINING TO STRUCTURAL COMPONENTS INDICATED.
11. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED.
12. VERIFY RQD. DEPTH OF ALL RECESSED SLABS W/ APPROPRIATE FINISH FLOORING MANUFACTURER PRIOR TO PLACEMENT OF SLAB.
13. MASONRY OPENINGS IN CMU WALLS FOR DOORS ARE TYPICALLY LOCATED 8" FROM THE JAMB OPENING TO THE ADJACENT WALL U.N.O.
14. DOORS IN GYPSUM BOARD WALLS ARE TYPICALLY LOCATED 6" FROM THE DOOR JAMB OPENING TO THE ADJACENT WALL U.N.O.
15. WHERE DOORS HAVE 180 DEGREE SWING IN CMU WALL, PROVIDE 3/4" SET BACK FROM FACE OF WALL OF SWING SIDE. COORD. W/ MASON.

## GENERAL WALL NOTES

1. REFER TO FLOOR PLANS FOR THE LOCATION OF PARTITION AND WALL TYPES DESCRIBED ON THIS DRAWING.
2. REFER T0 STRUCTURAL DRAWINGS FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY.
3. CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHER-TIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR TO OCCUR WHERE THROUGH-WALL FLASHING IS INDICATED OR RQD.
   - A. KEEP ALL DRAINAGE CAVITIES IN CAVITY WALLS FREE OF MORTAR.
   - B. EXTEND THROUGH-WALL FLASHING TO FACE OF MASONRY VENEER FOR OBSERVATION BY THE ARCHITECT.
   - C. AT MASONRY VENEER, PROVIDE WEEPS AND CAVITY VENTS AT 24" O.C. HORZ. ALTERNATE LOCATIONS OF WEEPS W/ VENTS. DO NOT ALLOW WEEPS OR CAVITY VENTS TO BECOME CLOSED OFF.
   - D. REFER TO THE SPECS. FOR MORE INFORMATION ON PLACEMENT AND INSTALLATION OF THROUGH-WALL FLASHING, WEEPS, AND CAVITY VENTS.
4. AT CAVITY WALL CONSTRUCTION, ADHESIVE INSTALL THROUGH-WALL FLASHING ON CMU OR SHEATHING OVER STUDS, UPWARD MIN. 6" AND PAN-UP THROUGH-WALL FLASHING AT ENDS MINIMUM 6". DO NOT MECHANICALLY FASTEN, PENETRATE, OR PUNCTURE THROUGH-WALL FLASHING. THROUGH-WALL FLASHING TO DIRECT ALL MOISTURE TO EXTERIOR FACE OF WALL.
5. U.N.O. ALL EXTERIOR AND INTERIOR MASONRY AND/OR MTL. STUD WALLS SHALL EXTEND FULL HEIGHT TO BOTTOM OF DECK AND BE SEALED. REFER TO REFLECTED CEILING PLANS. PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF EXTERIOR AND INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS.
   - A. FULL-HEIGHT, NON-RATED MTL STUD/GYP PARTITION RUNNING PERPENDICULAR TO METAL DECK FLUTE/STRUCTURE: COPE GYP TO WITHIN 1/2" OF METAL DECK FLUTE. FILL METAL DECK FLUTE VOID COMPLETELY W/ SOUND ATTENUATION BLANKET MATERIAL, INSTALL CONT. ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER.
   - B. FULL-HEIGHT, NON-RATED METAL STUD/GYP PARTITION RUNNING PARALLEL TO METAL DECK FLUTES/STRUCTURE: STOP GYP. TO WITHIN 1/2" OF METAL DECK, INSTALL CONT. ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER.
   - C. FULL-HEIGHT, NON-RATED CMU WALL RUNNING PERPENDICULAR OR PARALLEL TO METAL DECK FLUTES/STRUCTURE: LAY CMU TO WITHIN 1" OF METAL DECK. FILL METAL DECK FLUTE VOID COMPLETELY WITH CUT-TO-FIT COMPRESSIBLE NEOPRENE FILLER OR SOUND ATTENUATION BLANKET MATERIAL & CONT. ACOUSTICAL SEALANT BOTH SIDES.
   - D. FIRE-RATED FULL-HEIGHT WALLS: FILL ALL VOIDS AT METAL DECK/STRUCTURE ABOVE, W/ FIRE BLANKETS & INTUMESCENT SEALANT PER SECTION 078400. REFER TO DETAILS ON THIS SHEET.
   - E. CMU & GYP. COLUMN SURROUNDS MAY BE STOPPED 12" ABOVE CEILING UNLESS PART OF A FIRE- OR SOUND-RATED WALL CONSTRUCTION.
6. PROVIDE CAULKED CONTROL JOINTS WHERE LOAD BEARING CMU ABUTS NON-LOAD BEARING CMU OR WHERE WALLS OF DIFFERENT HEIGHTS ABUT.

## MATERIALS LEGEND:

- CONCRETE
- FINISHED WOOD
- CONCRETE MASONRY UNIT
- PLYWOOD
- CLAY MASONRY UNIT
- WOOD BLOCKING
- SPLIT-FACE CONCRETE MASONRY UNIT
- CAVITY WALL INSULATION/PERLITE ROOFING INSULATION
- GROUND-FACE CONCRETE MASONRY UNIT
- POLYISO. ROOFING INSULATION
- CUT STONE
- THERMAL, SOUND, OR FIRE BATT-INSULATION
- STEEL
- GYPSUM BOARD
- ALUMINUM
- SPRAY-IN-PLACE THERMAL INSULATION

## MASTER MATERIAL REFERENCE

| | |
|---|---|
| 033000.B | Foundation Wall |
| 033000.D | Slab-on-Deck |
| 033000.E | Isolation Joint Material |
| 042000.A | Concrete Masonry Unit |
| 042000.B | Face Brick |
| 042000.H | Vents and Weeps |
| 042000.I | Through Wall Flashing |
| 042000.J | Mortar Deflection Material |
| 042000.K | Grout |
| 042000.L | Masonry Reinforcement |
| 042000.O | Bond Beam |
| 051200.A | Structural Steel Member |
| 053100.A | Roof Deck |
| 055000.A | Ship's Ladder |
| 055100.D | Miscellaneous Metal Stair Components |
| 061000.A | Wood Blocking |
| 061000.B | Plywood Sheathing |
| 064100.A | Custom Casework |
| 064100.A13 | Plastic Laminate Countertop |
| 064100.C6 | Solid-Surface Countertop & Backsplash |
| 071300.A | Underslab Vapor Barrier |
| 072100.B | Perimeter Foundation Board Insulation |
| 072100.D | Sprayed-In-Place Thermal Insulation |
| 074113.A | Metal Roof Panels |
| 074113.C | Gutter |
| 074113.D | Downspout |
| 074113.E | Polyisocyanurate Insulation |
| 074113.F | Ice and Water Shield |
| 074113.G | Metal Wrap and Trim |
| 074113.I | Drip Edge |
| 078400.A | Through-Penetration Fire Stop System |
| 079005.A | Joint Sealant |
| 092116.B | Metal Studs and Runners |
| 092116.C | Gypsum Board-Regular/Type 'X' |
| 092116.I | Sound Attenuation Blankets |
| 096513.A | Resilient Wall Base & Accessories |
| 099000.A | Paint |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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018


NOT FOR CONSTRUCTION

# GENERAL ARCHITECTURAL DETAILS

## ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

## ESTILL COUNTY BOARD OF EDUCATION
## IRVINE, KENTUCKY


M,E,&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Brown + Kubican, PSC
2224 Young Dr.
Lexington, KY 40505
p 859.543.0933


BG# 22-207

Project No: 2148
Drawn By: KM/JK
Rev'd By: JR/PF

| SHEET RELEASE | | |
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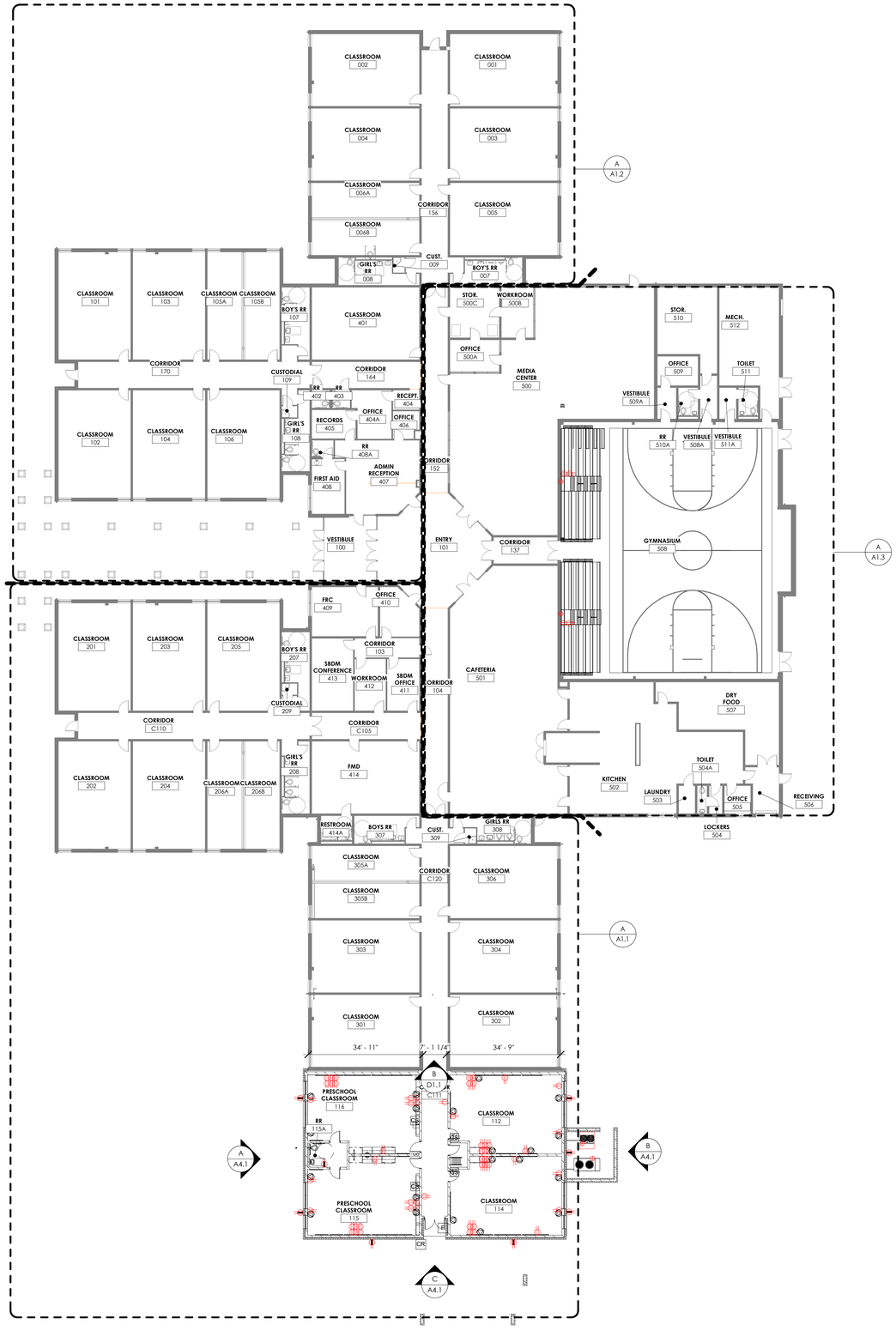
DESIGN DEVELOPMENT

# A0.1

GENERAL ARCHITECTURAL DETAILS
DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |

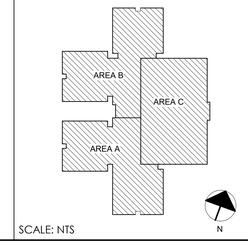



REFERENCE PLAN
1/16" = 1'-0"
1 A1.0

## GENERAL PLAN NOTES

1. (NIC)-NOT IN CONTRACT. PROVIDED BY OWNER AND INSTALLED BY OTHERS.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE.
3. ALL DIMENSIONS ARE TO FACE OF STUDS. MASONRY OR TO CENTERLINE OF STRUCT'L STEEL UNLESS OTHERWISE NOTED. CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING DIMENSIONS.
4. MASONRY DIMENSIONS ARE ACTUAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR FACE OF VENEER.
5. REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" PLANS.
6. ALL EXTERIOR WALLS ARE WALL TYPE 'A' U.N.O.
7. ALL INTERIOR PARTITIONS ARE WALL TYPE '1' U.N.O.
8. PROVIDE BULLNOSE UNITS AT ALL VERTICAL OUTSIDE CONCRETE BLOCK CORNERS U.N.O.
9. PARTITION TYPES SHALL MAINTAIN THEIR CONSTRUCTION AND RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC., AND PLUMBING PENETRATIONS SHALL BE SEALED/SAFED/DAMPERED AS RQD. TO COMPLY W/ APPLICABLE CODES.
10. REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZES, LOCATIONS, CONNECTIONS, REINFORCEMENT AND OTHER REQ. PERTAINING TO STRUCTURAL COMPONENTS INDICATED.
11. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED.
12. VERIFY RQD. DEPTH OF ALL RECESSED SLABS W/ APPROPRIATE FINISH FLOORING MANUFACTURER PRIOR TO PLACEMENT OF SLAB.
13. MASONRY OPENINGS IN CMU WALLS FOR DOORS ARE TYPICALLY LOCATED 8" FROM THE JAMB OPENING TO THE ADJACENT WALL U.N.O.
14. DOORS IN GYPSUM BOARD WALLS ARE TYPICALLY LOCATED 6" FROM THE DOOR JAMB OPENING TO THE ADJACENT WALL U.N.O.
15. WHERE DOORS HAVE 180 DEGREE SWING IN CMU WALL, PROVIDE 3/4" SET BACK FROM FACE OF WALL OF SWING SIDE. COORD. W/ MASON.

## KEY PLAN




SCALE: NTS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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018


NOT FOR CONSTRUCTION

# REFERENCE FLOOR PLAN
## ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY


M.E.&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222


BG# 22-207

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|---|---|
| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

| SHEET RELEASE | |
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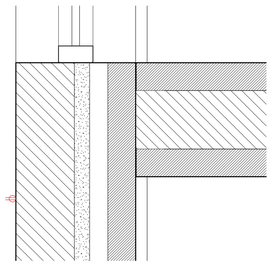
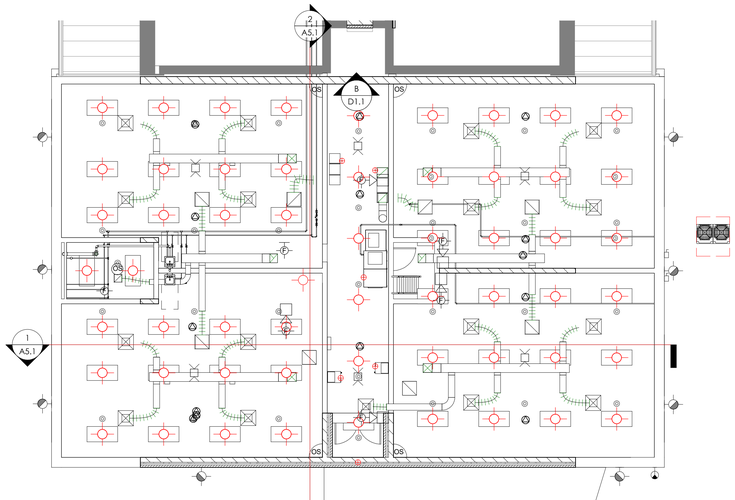
REFERENCE FLOOR PLAN

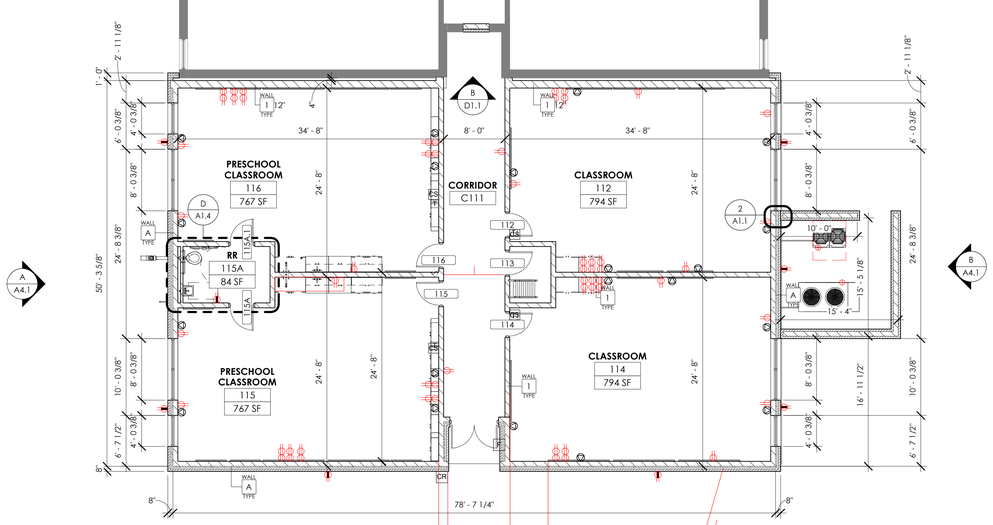
DATE ISSUED:
FEBRUARY 22, 2022



PLAN DETAIL
1 1/2" = 1'-0"



JOIST BEARING
1/8" = 1'-0"

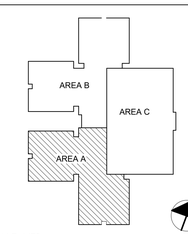



MATERIAL REFERENCE

PLAN NOTES

| | |
|---|---|
| 1 | NEW BASKETBALL GOAL BACKSTOP (116623) |
| 2 | NEW TELESCOPING BLEACHERS (126613) |

KEY PLAN




SCALE: NTS

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FLOOR PLAN - AREA A
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

M.E.&P. Engineer:
Staggs & Fisher
3264 Lochness Dr.
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Structural Engineer:
Structural Design Group, Inc.
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Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222

BG# 22-207

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| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

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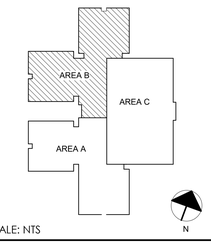
FLOOR PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

FLOOR PLAN - AREA B
1/8" = 1'-0"
A
A1.2

MATERIAL REFERENCE

KEY PLAN

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FLOOR PLAN - AREA B
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
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IRVINE, KENTUCKY

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| Project No: | 2148 |
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| Rev'd By: | JR/PF |

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FLOOR PLAN - AREA B

DATE ISSUED:
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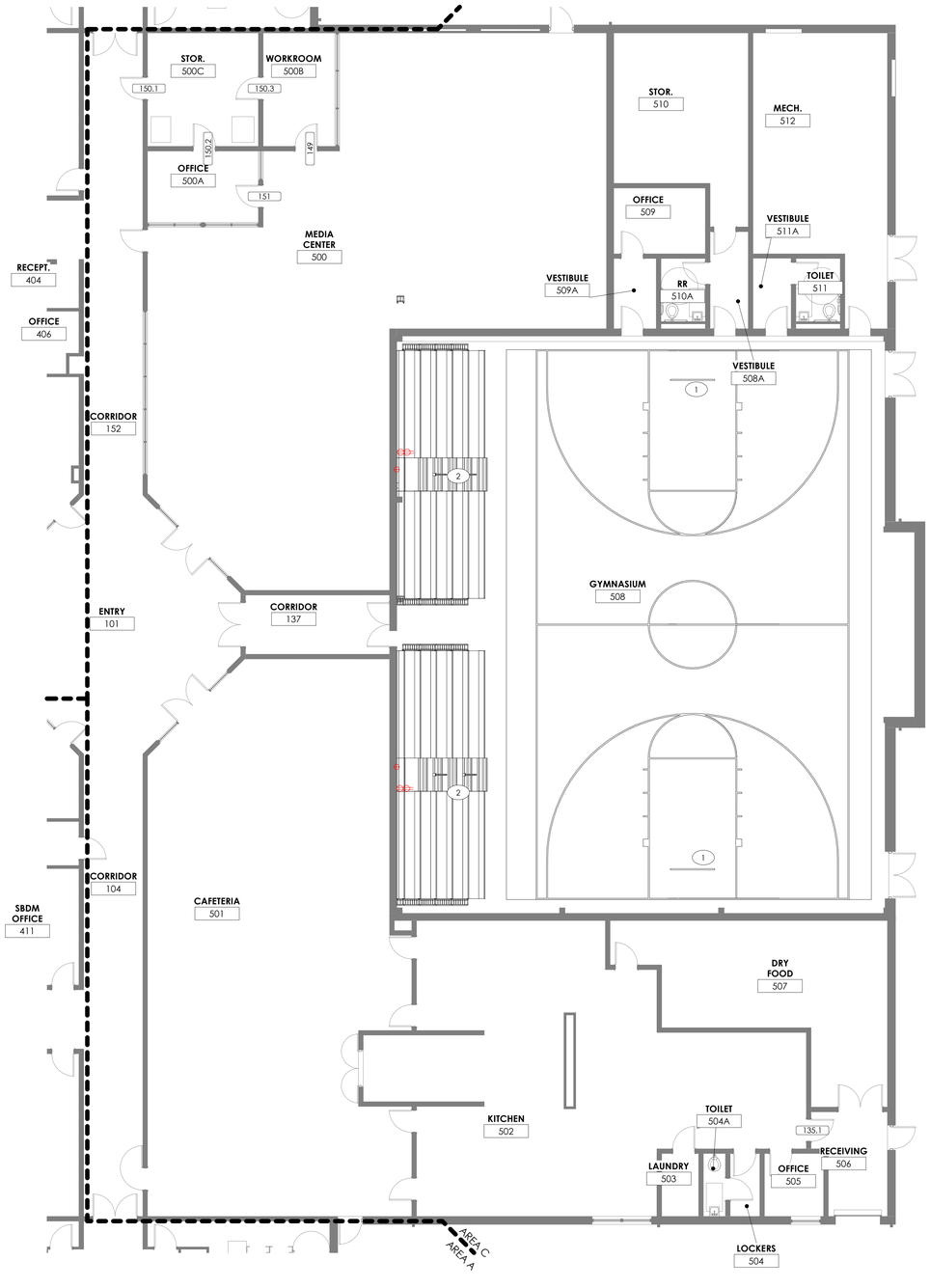


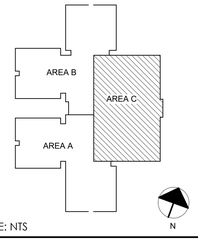

FLOOR PLAN - AREA C
1/8" = 1'-0"
A
A1.3

MATERIAL REFERENCE

PLAN NOTES

| | |
|---|---|
| 1 | NEW BASKETBALL GOAL BACKSTOP (116623) |
| 2 | NEW TELESCOPING BLEACHERS (126613) |

KEY PLAN

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FLOOR PLAN - AREA C
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

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BG# 22-207

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| Project No: | 2148 |
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| Rev'd By: | JR/PF |

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FLOOR PLAN - AREA C

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
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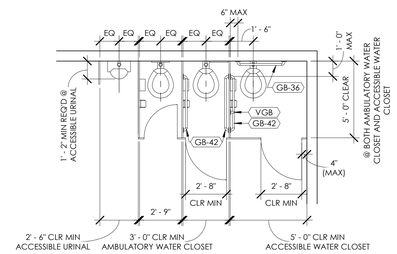
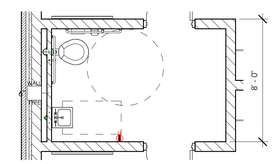
***NOTE***
**THIS VIEW IS FOR REFERENCE ONLY, AND DISPLAYS THE DIMENSION REQUIREMENTS FOR RESTROOM LAYOUT. THIS VIEW SHOULD NOT APPEAR IN THE DRAWING SET.**



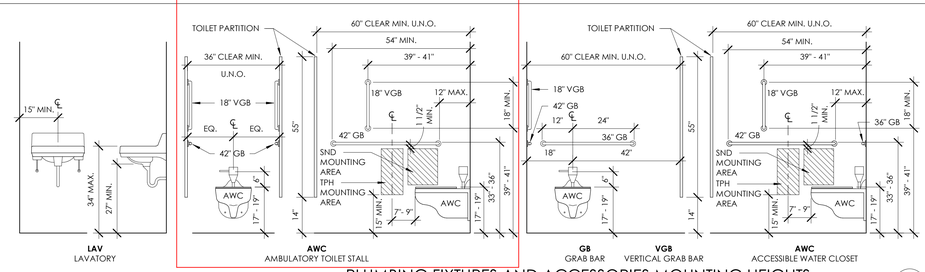

TYP RESTROOM LAYOUT PLAN (H / A1.4)
1/4" = 1'-0"




ENLARGED RESTROOM PLAN (D / A1.4)
1/4" = 1'-0"

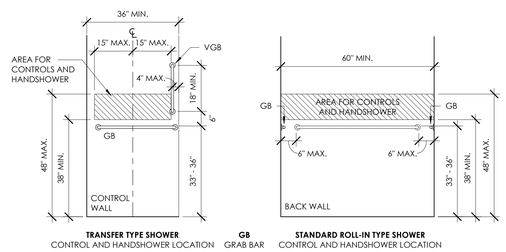
*****PLEASE NOTE*****
**AN AMBULATORY STALL IS REQUIRED FOR ANY GANGED RESTROOM WITH SIX (6) OR MORE FIXTURES.**

*****PLEASE NOTE*****
**IF YOUR PROJECT REQUIRES LOWER FIXTURE HEIGHTS FOR PRESCHOOL, DAYCARE OR ELEMENTARY FACILITIES, THESE ELEVATIONS NEED TO REFER TO THE FIXTURE MOUNTING HEIGHT SCHEDULE (A LEGEND VIEW), AND THE WC AND LAV HEIGHTS BELOW NEED TO BE OVERRIDDEN TO SAY "SEE SCHED."**



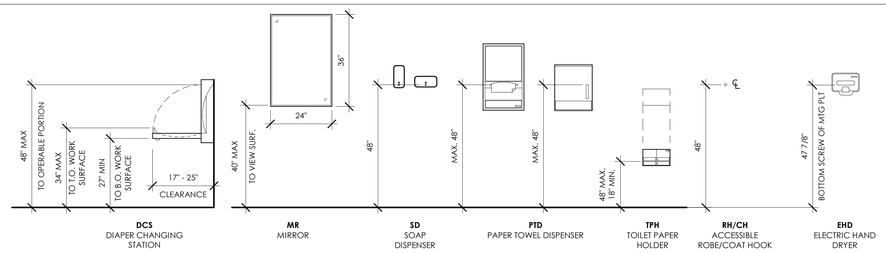

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS (C / A1.4)
1/2" = 1'-0"




**TRANSFER TYPE SHOWER** CONTROL AND HANDSHOWER LOCATION
**GB** GRAB BAR
**STANDARD ROLL-IN TYPE SHOWER** CONTROL AND HANDSHOWER LOCATION

SHOWER CONTROLS (B / A1.4)
1/2" = 1'-0"




(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

TOILET ACCESSORIES, DEVICE, AND EQUIPMENT MOUNTING HEIGHTS (A / A1.4)
1/2" = 1'-0"

## MATERIAL REFERENCE

## NOTES:

1. COORDINATE ALL PLUMBING FIXTURES AND TOILET ACCESSORIES WITH THE PLUMBING ENGINEER.
2. THE FOLLOWING ITEMS SHALL BE PROVIDED AND INSTALLED BY THE OWNER: PTD, TPH, SD.

## TOILET ACCESSORY LEGEND

| | |
|---|---|
| ALAV | ACCESSIBLE LAVATORY |
| ALAVP | ACCESSIBLE LAVATORY - PRESCHOOL HEIGHT |
| AWC | ACCESSIBLE WATER CLOSET |
| AWCP | ACCESSIBLE WATER CLOSET - PRESCHOOL HEIGHT, FLOOR MOUNTED |
| CH | COAT HOOK |
| DCS | DIAPER CHANGING STATION |
| EHD | ELECTRIC HAND DRYER |
| FD | FLOOR DRAIN - REFER TO MEP |
| GB | SHOWER GRAB BAR |
| GB-24 | 24" GRAB BAR |
| GB-36 | 36" GRAB BAR |
| GB-42 | 42" GRAB BAR |
| MR | MIRROR |
| MS | MOP SINK |
| PTD | PAPER TOWEL DISPENSER |
| RH | ACCESSIBLE ROBE HOOK |
| SD | SOAP DISPENSER |
| SND | SANITARY NAPKIN DISPOSAL |
| TPH | TOILET PAPER HOLDER |
| VGB | 18" VERTICAL GRAB BAR |


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018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# ENLARGED FLOOR PLANS
# ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
# ESTILL COUNTY BOARD OF EDUCATION
# IRVINE, KENTUCKY


M.E.&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222


BG# 22-207

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|---|---|
| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

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DESIGN DEVELOPMENT

# A1.4

ENLARGED FLOOR PLANS

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |

## ROOM FINISH SCHEDULE

| ROOM NO. | ROOM NAME | FLOOR FINISH | BASE FINISH | NORTH WALL | EAST WALL | SOUTH WALL | WEST WALL | CEILING FINISH | SIGN TYPE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| 407 | ADMIN RECEPTION | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 007 | BOY'S RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 107 | BOY'S RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 207 | BOY'S RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 307 | BOYS RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 501 | CAFETERIA | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 001 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 002 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 003 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 004 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 005 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 006A | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 006B | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 101 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 102 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 103 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 104 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 105A | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 106 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 105B | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 201 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 202 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 203 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 204 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 205 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 206A | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 206B | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 301 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 302 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 303 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 304 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 305B | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 306 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 305A | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 401 | CLASSROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 112 | CLASSROOM | RT1 | RB1 | P | P | P | P | ACP1 | Sign Type 2 | RDS1 & RWS1 |
| 114 | CLASSROOM | RT1 | RB1 | P | P | P | P | ACP1 | Sign Type 2 | RDS1 & RWS1 |
| 103 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 164 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 104 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 152 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| C120 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 156 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 137 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 170 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| C110 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| C105 | CORRIDOR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| C111 | CORRIDOR | RT1- RT3 | RB1 | P | P & Exposed Brick | P | P & Exposed Brick | ACP1 & P - Gyp | Sign Type 4 | |
| 309 | CUST. | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 009 | CUST. | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 109 | CUSTODIAL | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 209 | CUSTODIAL | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 507 | DRY FOOD | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 101 | ENTRY | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 408 | FIRST AID | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 414 | FMD | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | RDS1 |
| 409 | FRC | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 008 | GIRL'S RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 108 | GIRL'S RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 208 | GIRL'S RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 308 | GIRLS RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 508 | GYMNASIUM | WD1 & 4-color mascot | VB1 | ETR | ETR | ETR | ETR | ETR | NA | Provide VCT in the void between the exterior door and WD1 |
| 502 | KITCHEN | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 503 | LAUNDRY | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 504 | LOCKERS | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 512 | MECH. | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 500 | MEDIA CENTER | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 505 | OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 500A | OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 406 | OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 410 | OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 404A | OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 509 | OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 115 | PRESCHOOL CLASSROOM | RT1-RT2 | RB1 | P | P | P | P | ACP1 | Sign Type 2 | RDS1 & RWS1 |
| 116 | PRESCHOOL CLASSROOM | RT1-RT2 | RB1 | P | P | P | P | ACP1 | Sign Type 2 | RDS1 & RWS1 |
| 506 | RECEIVING | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 404 | RECEPT. | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 405 | RECORDS | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 414A | RESTROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 119 | Room | SC1 | NA | P | P | P | P | P - Exposed | Sign Type 1 | |
| 402 | RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 403 | RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 408A | RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 510A | RR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 115A | RR | FE1 | FE1 flashed up wall | P | P | P | P | ACP1 | Sign Type 3 (Qty 2) | |
| 413 | SBDM CONFERENCE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 411 | SBDM OFFICE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 500C | STOR. | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 510 | STOR. | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 504A | TOILET | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 511 | TOILET | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 100 | VESTIBULE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 508A | VESTIBULE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 511A | VESTIBULE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 509A | VESTIBULE | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 500B | WORKROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |
| 412 | WORKROOM | ETR | ETR | ETR | ETR | ETR | ETR | ETR | ETR | |

## OPTIMUM MOUNTING HEIGHTS

| ITEM (DIMENSION TO) | GRADE LEVEL | | |
|---|---|---|---|
| | PRE-SCHOOL KINDERGARTEN | 1 THRU 3 | 4 THRU 6 |
| VISUAL DISPLAY BOARDS - MARKER, TACK, CHALK | TOP 70" BOTTOM 22" | TOP 73" BOTTOM 25" | TOP 77" BOTTOM 29" |
| COUNTERTOP: STANDING POSITION (TOP) | 24" | 26" | 30" |
| DESKTOP/TABLETOP: SEATED POSITION (TOP) | 18" | 20" | 23" |
| PANIC DEVICE DOOR HARDWARE (CENTERLINE) | 27" | 31" | 36" |
| FIRE EXTINGUISHER CABINET (BOTTOM) | 32" | | |
| FIRE EXTINGUISHER CABINET (CENTER OF VALVE LINE) | 64" | | |
| COAT HOOK (CENTERLINE) | 36" | 41" | 48" |

## FINISH LEGEND

| SPEC SECTION | KEY | BASIS OF DESIGN |
|---|---|---|
| 095113 | ACP1 | ACOUSTICAL CEILING TILE - 2 X 2 |
| 096466 | WD1 | WOOD COMPETITION FLOORING |
| 096500 | RT1 | RESILIENT TILE FLOORING - 12" X 12" |
| 096513 | RB1 | RESILIENT BASE - 4" COVE |
| 096723 | FE1 | DECORATIVE FLAKE EPOXY FLOORING |
| 099000 | P | TYPICAL PAINT |
| | AP | ACCENT PAINT - UP TO SIX COLORS |
| 101101 | | VISUAL DISPLAY BOARDS |
| 101424 | | SIGNAGE |
| 102601 | WP1 | WALL PROTECTION |
| 102800 | | TOILET AND BATH ACCESSORIES |
| 122413 | MWS1 | MANUALLY OPERATED WINDOW SHADES |
| | RDS1 | ROLLER DOOR SHADES |
| 123550 | HPL1 | PLASTIC LAMINATE BASE AND WALL CABINETS |
| | HPL2 | PLASTIC LAMINATE COUNTERTOPS |
| | HPL3 | PLASTIC LAMINATE - EQUAL TO GRAPHIC LAM |

## EQUIPMENT LEGEND

| | | |
|---|---|---|
| A4 | 4'-0"W X 4'-0"H MARKERBOARD | REFER TO SPEC. |
| A6 | 6'-0"W X 4'-0"H MARKERBOARD | REFER TO SPEC. |
| A8 | 8'-0"W X 4'-0"H MARKERBOARD | REFER TO SPEC. |
| B4 | 4'-0"W X 4'-0"H TACKBOARD | REFER TO SPEC. |
| B6 | 6'-0"W X 4'-0"H TACKBOARD | REFER TO SPEC. |
| C | CORNER GUARD | REFER TO SPEC. |
| D1 | TACK STRIP MOUNT 2" BELOW CEILING AT ROOM PERIMETER | REFER TO SPEC. |
| D2 | TACK STRIP MOUNT AT __" AND __" ABOVE FLOOR | REFER TO SPEC. |
| E | INSTRUCTOR'S DESK/LECTERN | N.I.C. |
| F | INTERACTIVE BOARD | N.I.C. |
| G | | |
| H | FLOOR MODEL PLOTTER | N.I.C. |
| I | RECESSED SCIENCE SHOWER | REFER TO SPEC. |
| J | FREE STANDING COPIER | N.I.C. |
| K | FLORAL COOLER/CASE | N.I.C. |
| L1 | LOCKERS - SINGLE TIER, QTY INDICATED ON PLANS | REFER TO SPEC. |
| L2 | LOCKERS - DOUBLE TIER, QTY INDICATED ON PLANS | REFER TO SPEC. |
| L3 | LOCKERS - ATHLETIC (MVP), QTY INDICATED ON PLANS | REFER TO SPEC. |
| L4 | LOCKERS - DOUBLE TIER, DIAMOND VENTED QTY INDICATED ON PLANS | REFER TO SPEC. |
| M | ADULT CHANGING TABLE | REFER TO SPEC. |
| N | GOGGLE CABINET | REFER TO SPEC. |
| O | FIRST AID KIT W/FIRE BLANKET BELOW | REFER TO SPEC. |
| P | MOBILE COMPUTER CART | N.I.C. |
| Q | FLAMMABLE CABINET | N.I.C. |
| R | PEG BOARD WITH DRIP TRAY | REFER TO SPEC. |
| S | SWING ON FRAME | N.I.C. |
| T | MOP AND BROOM HOLDER | REFER TO SPEC. |
| U | ICE MACHINE | N.I.C. |
| V | WALL BRACKET FOR LCD SCREEN | N.I.C. |
| W | SERVER RACK | N.I.C. |
| X | BACKGROUND CURTAIN | REFER TO SPEC. |
| Y | ACID STORAGE CABINET | REFER TO SPEC. |
| Z | FLAMMABLE STORAGE CABINET | REFER TO SPEC. |
| AA | WALL MOUNTED EYE WASH | REFER TO SPEC. |
| BB | OPERABLE PANEL PARTITION | REFER TO SPEC. |
| CC | LOCKER BENCH, 3' LONG | REFER TO SPEC. |
| DD | 2'-0" WIDE WALL PADS | REFER TO SPEC. |
| EE | LIBRARY DETECTION SYSTEM | N.I.C. |
| FF | ADJUSTABLE STEEL SHELVING | N.I.C. |
| GG | TRAINING TABLES | N.I.C. |
| HH | STANDING INTERNET ACCESS STATION | REFER TO SPEC. |
| II | DEMONSTRATION MIRROR | REFER TO SPEC. |
| JJ | COT | N.I.C. |
| KK | PLATE GLASS MIRROR 4" - 6'-0", SEE PLAN FOR WIDTH | REFER TO SPEC. |
| LL | CHALKBOARD | REFER TO SPEC. |
| MM | INTERACTIVE BOARD | N.I.C. |
| NN | COAT HOOKS | REFER TO SPEC. |
| OO | PROJECTION SCREEN WALL MOUNTED, MANUAL | REFER TO SPEC. |
| PP | PROJECTION SCREEN RECESSED, MANUAL | REFER TO SPEC. |
| QQ | PROJECTION SCREEN RECESSED, MOTORIZED | REFER TO SPEC. |
| RR | CEILING (SEMI-FLUSH) MOUNTED PROJECTOR BRACKET | REFER TO SPEC. |
| SS | CEILING (POLE) MOUNTED PROJECTOR BRACKET | REFER TO SPEC. |

## MATERIAL REFERENCE

## ROOM FINISH NOTES

1. ALL WALLS, GYPSUM BOARD CEILINGS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, ALL UNFINISHED SURFACES EXPOSED AFTER CONSTRUCTION IS COMPLETE SHALL RECEIVE PAINT UNLESS OTHERWISE NOTED.
2. ALL UNFINISHED EXTERIOR SURFACES INCLUDING CONCRETE BLOCK, STEEL LINTELS, ETC.,, WILL RECEIVE A PAINT SYSTEM. REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLANS FOR WALL ASSEMBLY TYPES.
4. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ON CEILINGS AND SOFFIT LOCATIONS.
5. PROVIDE COLOR MATCHING CAULK AT THE INTERSECTION OF HOLLOW METAL FRAMES AND HARD SURFACE FLOORING, TYP.
6. WHERE FLOOR TILE BORDERS/PATTERNS OCCUR, THE CENTER "FIELD" TILES SHALL BE FULL SIZE TILES AND THE BORDER TILES ALONG THE WALL SHALL BE CUT TO CENTER THE FIELD TILES.
7. ALL FURNITURE/EQUIPMENT SHOWN DASHED IS FOR REFERENCE ONLY AND IS NOT IN THIS CONTRACT.
8. ALL CASEWORK TOE KICK AREAS AND/OR OTHER CASEWORK SURFACES WHICH ABUT FLOOR FINISHES WILL RECEIVE RESILIENT BASE.
9. WHERE MARKERBOARDS AND TACKBOARDS ARE TOO WIDE FOR THE LOCATION INDICATED, THE SUPPLIER SHALL NOTIFY THE DESIGNER AND MODIFY THE WIDTH ACCORDINGLY.
10. IN SOME CASES MORE THAN ONE TYPE OF FLOORING AND/OR CEILING FINISH WILL OCCUR IN ONE SPACE - REFER TO FLOOR PLANS, REFLECTED CEILING PLANS, FINISH SCHEDULE AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. PAINTING SHALL INCLUDE STAIR ASSEMBLY COMPONENTS INCLUDING STRINGER, HANDRAILS, ETC.,.
12. PROVIDE MECHANICALLY FASTENED, WALL CORNER GUARDS FOR ALL OUTSIDE GYPSUM CORNERS, TYP. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. COUNTERTOP & SHELVING BRACKETS (WHERE APPLICABLE WILL BE EQUAL TO A&M HARDWARE STEEL BRACKETS. SIZES SHALL ACCOMMODATE THE VARIOUS DEPTHS INDICATED IN THE DRAWINGS.
14. ALL LOUVERS, GRILLS, REGISTERS & DIFFUSERS SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.

## GYM STRIPING LEGEND

PAINT COLOR # 1: ST-1

PAINT COLOR # 2: ST-2

PAINT COLOR # 3: ST-3

PAINT COLOR # 4: ST-4

## EPOXY SINK LEGEND

| | |
|---|---|
| EP-1 | ROUND CUPSINK 8" DIA. X 8" D |
| EP-2 | ACCESSIBLE DROP-IN 15"W X 18"L X 4 1/2"D |
| EP-3 | RECTANGULAR CUPSINK 5 1/2" W X 15"L X 6"D |

## SIGNAGE TYPES

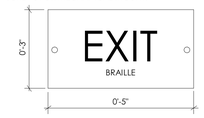
SEE SPECIFICATION 101424 FOR SIGN MANUFACTURING AND INSTALLATION DETAILS

SIGN TYPE 1 (TYPICAL): TYPICAL 8"H X 8"W PANEL SIGN - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 2 (WITH WINDOW): TYPICAL 8"H X 8"W PANEL SIGN WITH OPENING FOR REMOVABLE PAPER INSERT- REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 3 (RESTROOM & OTHER SYMBOL SIGNS) : TYPICAL 8"H X 8"W PANEL SIGN WITH SYMBOL - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

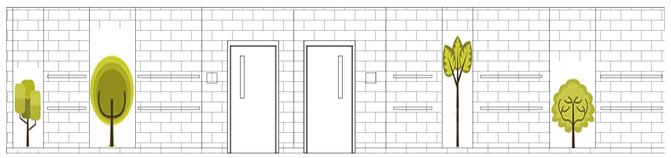
SIGN TYPE 4 (EXIT) : 3"H X 5"W PANEL SIGN AS SHOWN BELOW THAT CONFORMS TO CODE STANDARDS, TWO SCREWS FOR MECHANICAL MOUNT.



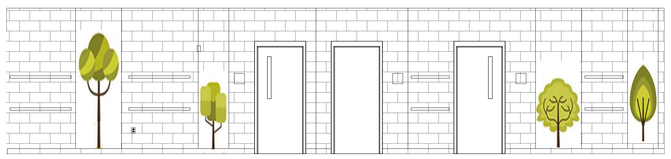

SIGN TYPE 5 (DIRECTIONAL) : (VARIES AS NEEDED BY TEXT, NOT TO EXCEED 20"]"H X 18"W PANEL SIGN WITH ARROWS AND NUMBERS AND TEXT

SIGN TYPE 6 (EXIT STAIR) : 5"H X 5"W EXIT STAIR SIGN WITH BRAILLE AND CONFORMING TO CODE STANDARDS WITH TEXT "EXIT STAIR DOWN"

PLAQUE: SEE A2.0 FOR PLAQUE SIZE AND TEXT

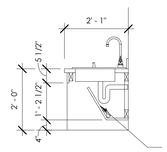


CORRIDOR - PLAN WEST
1/4" = 1'-0"
C A2.0



CORRIDOR - PLAN EAST
1/4" = 1'-0"
B A2.0

PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEET ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET CONSTRUCTION WITH SINK SIZES AND LOCATIONS.




PRE-K SINK SECTION
1/2" = 1'-0"
A A2.0

PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEET ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET CONSTRUCTION WITH SINK SIZES AND LOCATIONS.

ADA ACCESSIBILITY GUIDELINES
4.19.2 LAVATORY HEIGHTS & CLEARANCES

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 IN (865 mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 IN (735 mm) ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE LAVATORY: 27 IN (685 mm) MINIMUM FROM THE FLOOR TO THE UNDERSIDE OF THE LAVATORY WHICH EXTENDS 8 IN (205 mm) MINIMUM MEASURED FROM THE FRONT EDGE UNDERNEATH THE LAVATORY BACK TOWARDS THE WALL; IF A MINIMUM 9 IN (230 mm) OF TOE CLEARANCE IS PROVIDED, A MAXIMUM OF 6 IN (150 mm) OF THE 48 IN (1220 mm) OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE. (4.19.2, 4.19.6)

EXCEPTION 1: LAVATORIES USED PRIMARILY BY CHILDREN AGES 6 THROUGH 12 SHALL BE PERMITTED TO HAVE AN APRON CLEARANCE AND A KNEE CLEARANCE 24 IN (610 mm) HIGH MINIMUM PROVIDED THAT THE RIM OR COUNTER SURFACE IS NO HIGHER THAN 30 IN (760 mm).

EXCEPTION 2: LAVATORIES USED PRIMARILY BY CHILDREN AGES 5 AND YOUNGER SHALL NOT BE REQUIRED TO MEET THESE CLEARANCES IF CLEAR FLOOR SPACE FOR A PARALLEL APPROACH COMPLYING WITH 4.2.4 IS PROVIDED.

FOR MORE INFORMATION, REFER TO: http://www.access-board.gov/adaag/html/adaag.htm#4.19

PROVIDE REMOVABLE ACCESS PANEL SECURED WITH TAMPER RESISTANT SCREWS RINGS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION

ROOM FINISH SCHEDULE
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY


M.E.&P. Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p.859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222


BG# 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

SHEET RELEASE
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DESIGN DEVELOPMENT

A2.0

ROOM FINISH SCHEDULE

DATE ISSUED:
FEBRUARY 22, 2022

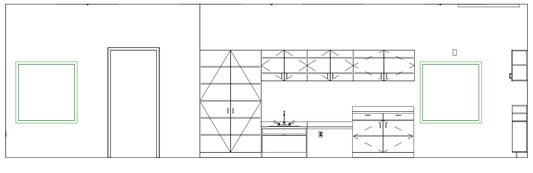
REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |

FLOOR PLAN - AREA A - INTERIORS
1/8" = 1'-0"
A / A2.1




PRESCHOOL - CUBBIES
1/4" = 1'-0"
3 / A2.1



PRESCHOOL - SINK CASEWORK
1/4" = 1'-0"
2 / A2.1



CLASSROOM - TEACHER STORAGE
1/4" = 1'-0"
1 / A2.1

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FLOOR PLAN - AREA A - INTERIORS
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

M.E.&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Construction Manager:
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P.O. Box 17
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BG# 22-207

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| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

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A2.1

FLOOR PLAN - AREA A - INTERIORS
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FLOOR PLAN - AREA B - INTERIORS
1/8" = 1'-0"

A
A2.2

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FLOOR PLAN - AREA B - INTERIORS
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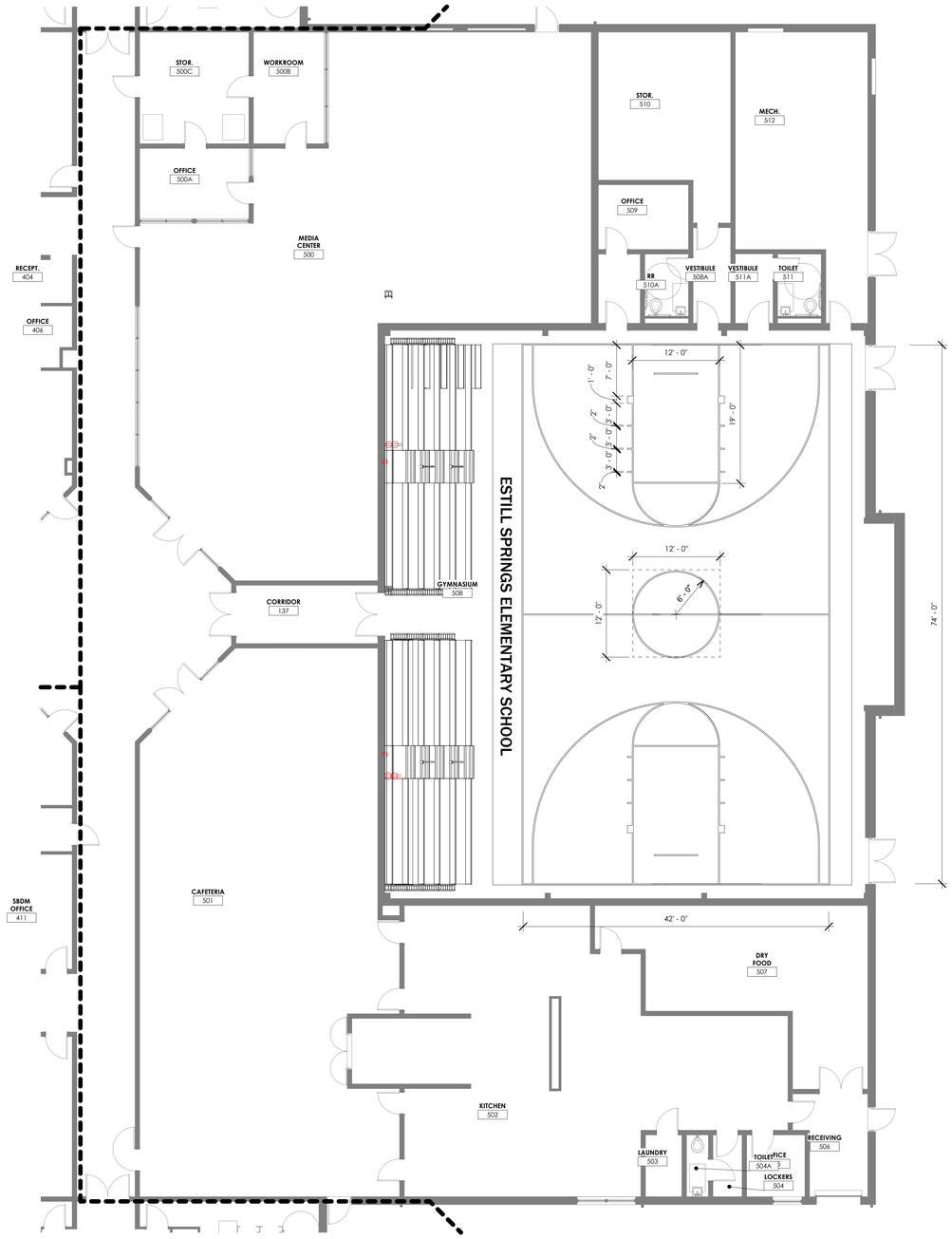


REFERENCE PLAN - INTERIORS
1/8" = 1'-0"

A
A2.3

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FLOOR PLAN - AREA C - INTERIORS
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| Rev'd By: | JR/PF |

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A2.3

FLOOR PLAN - AREA C - INTERIORS
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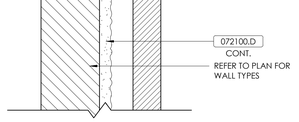
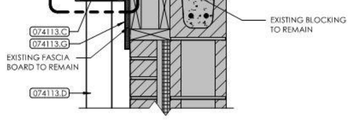
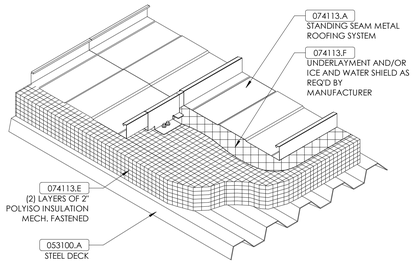



ROOF DETAIL
1 1/2" = 1'-0"
F
2A3.2




ROOF TYPE 1

STANDING SEAM METAL ROOFING SYSTEM OVER 2 LAYERS OF 2" POLYISO INSULATION, MECHANICALLY FASTENED TO DECKING. REFER TO ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO SPECIFICATION SECTION 074113 FOR MORE DETAILS.

ROOF TYPE 1
N.T.S.

## ROOF NOTES

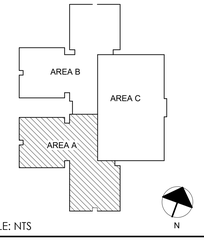
| # | |
|---|---|
| 1 | GUTTER. SEE DETAIL x/Ax.x. (074113) (076200) (077123) |
| 2 | DOWNSPOUT. SEE DETAIL x/Ax.x. (074113) (076200) (077123) |
| 5 | CRICKET/SADDLE SLOPED TO 1/4" PER 1'-0" FOR POSITIVE DRAINAGE. |
| 6 | FASCIA. SEE DETAIL x/Ax.x. |
| 7 | COPING. SEE DETAIL x/Ax.x. |
| 8 | VENTED RIDGE. SEE DETAIL x/Ax.x. |
| 9 | VALLEY FLASHING. SEE DETAIL x/Ax.x. |
| 10 | ICE AND WATER SHIELD. (073113) (074113) |
| 11 | DRIP EDGE. SEE DETAIL x/Ax.x. |
| 12 | REGLET AND COUNTERFLASHING. SEE DETAIL x/Ax.x. |
| 13 | ACCESS HUB. REFER TO MEP. |
| 16 | EXPANSION JOINT. SEE DETAIL x/Ax.x. |
| 21 | SUNSHADE. SEE DETAIL x/Ax.x. REFER TO STOREFRONT/CURTAINWALL SPECIFICATION. |
| 22 | PREMANUFACTURED WALL HUNG CANOPY. SEE DETAIL x/Ax.x. 3'x5' OVER SINGLE DOORS; 3'x8' OVER DOUBLE DOORS U.N.O. |
| 23 | PREMANUFACTURED COLUMN SUPPORTED CANOPY. SEE DETAIL x/Ax.x. |
| 31 | STONE COPING. SEE DETAIL x/Ax.x. |

## ROOF LEGEND

REFER TO ROOF DETAILS FOR MORE INFORMATION.
SOME ITEMS SHOWN MAY NOT APPLY TO THE PROJECT.

| | | |
|---|---|---|
| VTR | VENT THROUGH ROOF. COORDINATE WITH MEP DRAWINGS. | O |

## KEY PLAN




SCALE: NTS

101 old lafayette

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# ROOF PLAN

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
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IRVINE, KENTUCKY


M.E.&P Engineer:
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Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222


BG# 22-207

Project No: 2148
Drawn By: KM/JK
Rev'd By: JR/PF

SHEET RELEASE

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A3.1

ROOF PLAN

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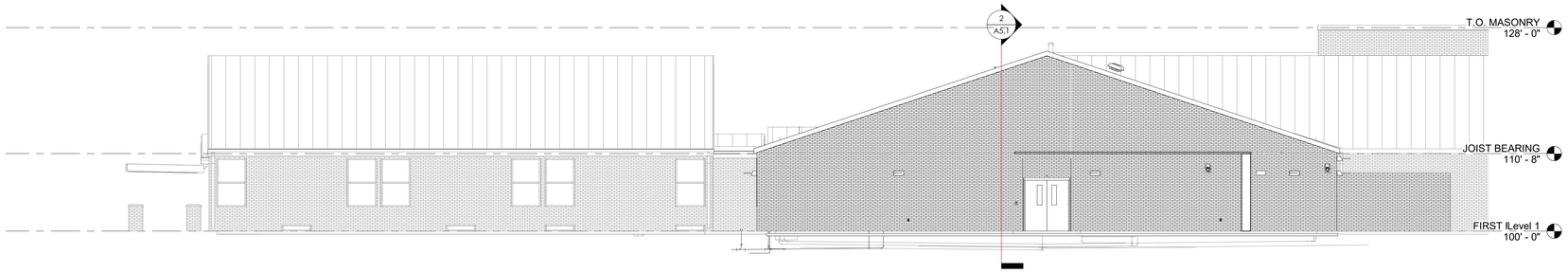
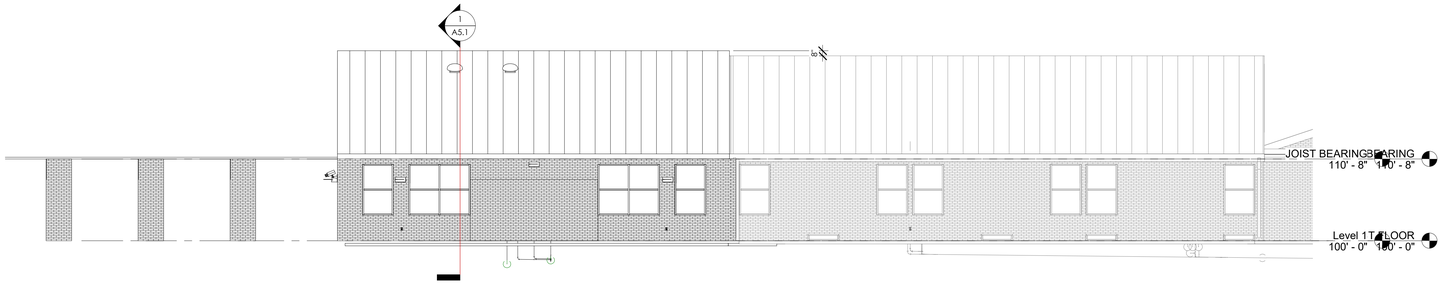



Elevation 3 - a
1/8" = 1'-0"
C
A4.1




Elevation 2 - a
1/8" = 1'-0"
B
A4.1

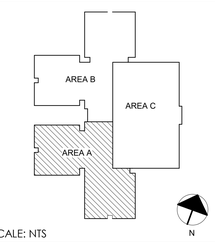
Elevation 1 - a
1/8" = 1'-0"
A
A4.1

MATERIAL REFERENCE

GENERAL ELEVATION NOTES

1. COORDINATE EXTERIOR FINISHES WITH CHANGES IN GRADE. REFER TO SITE DRAWINGS FOR GRADE INFORMATION.
2. COORDINATE LOCATION OF DOWNSPOUT BOOTS WITH SITE DRAWINGS.
3. COORDINATE FOUNDATION DESIGN WITH STRUCTURAL DRAWINGS.

KEY PLAN

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BUILDING ELEVATIONS
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
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IRVINE, KENTUCKY


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BG# 22-207

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| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

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A4.1

BUILDING ELEVATIONS

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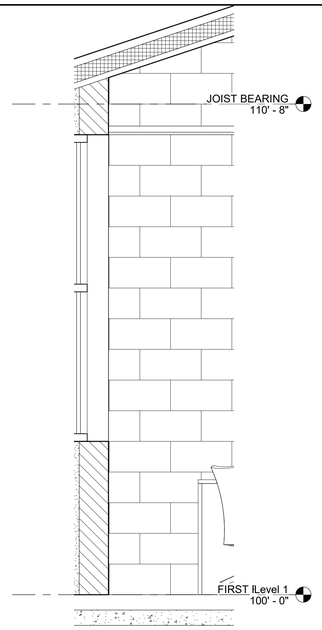
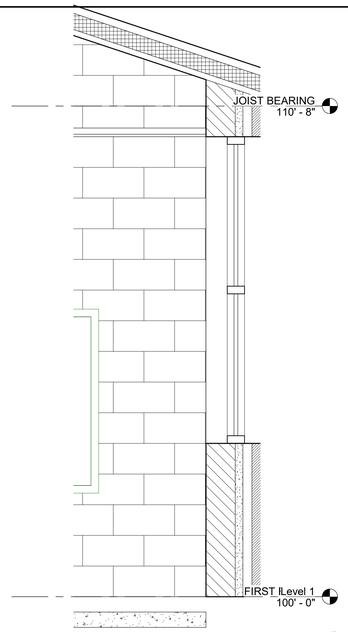



Section 2 - Callout 1
3/4" = 1'-0"
3 A5.1




Section 2 - Callout 2
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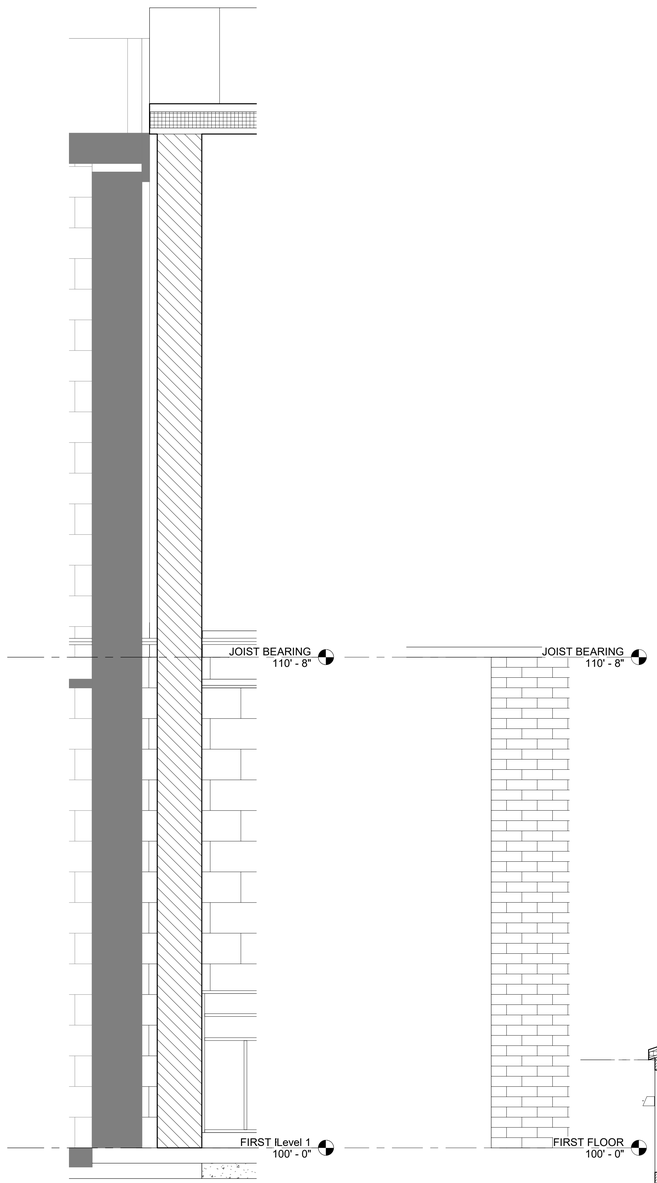
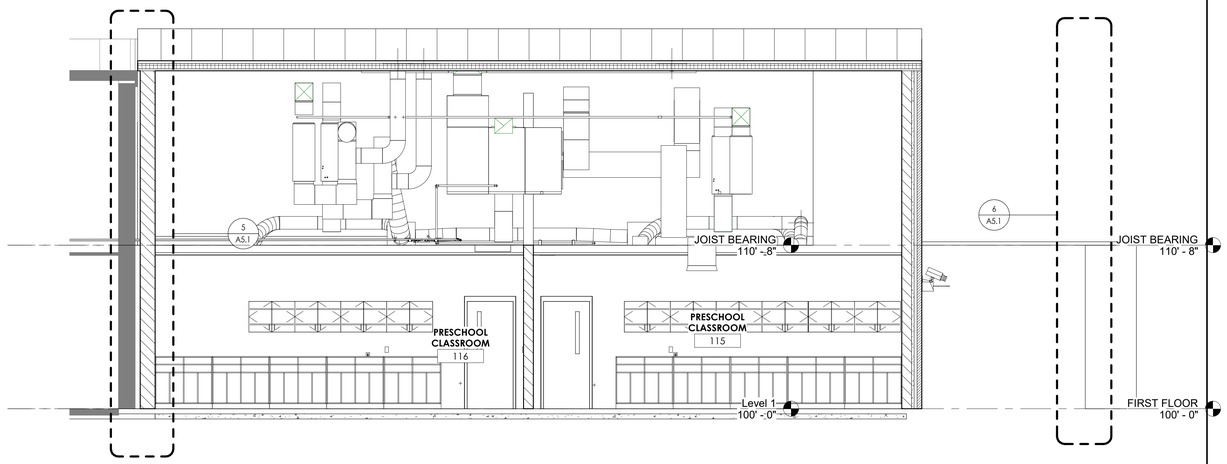
4 A5.1

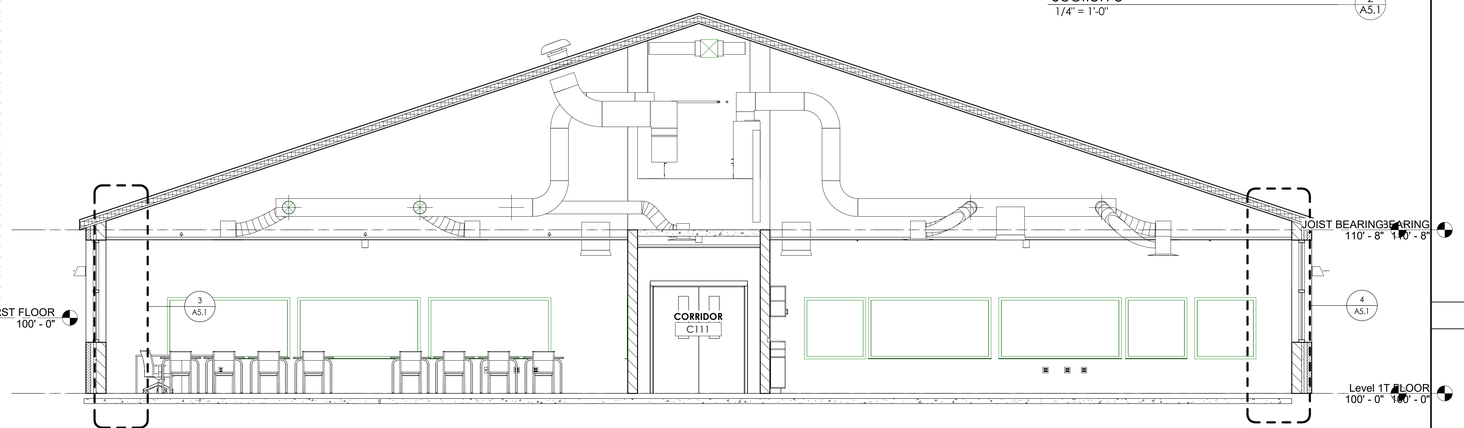



Section 3 - Callout 1
3/4" = 1'-0"
5 A5.1

Section 3 - Callout 2
3/4" = 1'-0"
6 A5.1



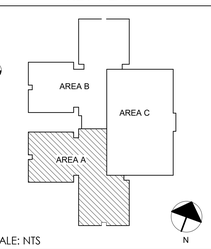

Section 3
1/4" = 1'-0"
2 A5.1




Section 2
1/4" = 1'-0"
1 A5.1

MATERIAL REFERENCE

KEY PLAN

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BUILDING & WALL SECTIONS
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
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BG# 22-207

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| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

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A5.1

BUILDING & WALL SECTIONS

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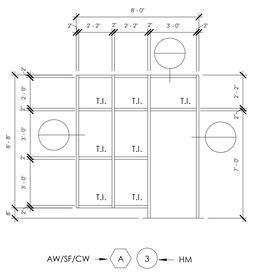
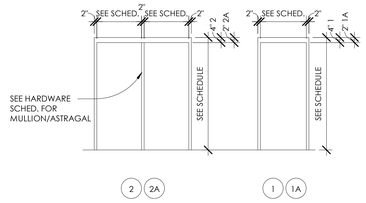
## MATERIAL REFERENCE

# DOOR AND FRAME SCHEDULE

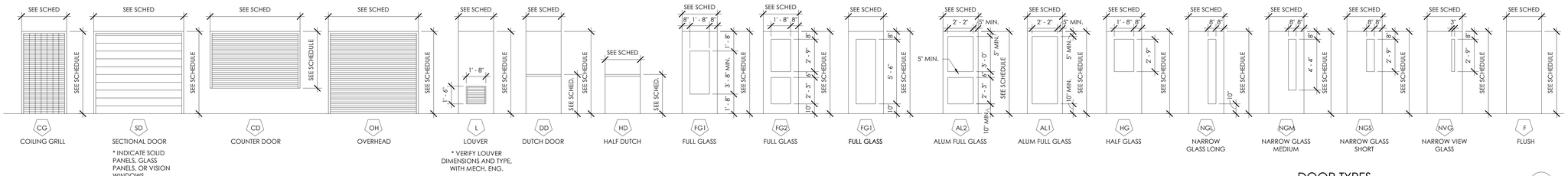
| DOOR NUMBER | PAIR | DOOR W | DOOR H | DOOR THICK | DOOR MAT | DOOR TYPE | DOOR GLASS | FRAME MAT | FRAME TYPE | FRAME THICK | FRAME DETAIL HEAD | FRAME DETAIL JAMB | FIRE RATING | SECURITY CARD ACCESS | SECURITY KEY ACCESS | SECURITY EXIT ONLY | ADA ACTIVATOR | MAG HOLD | SET NO. | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112 | | 3' - 0" | 7' - 0" | 1 3/4" | HM | NVG | | | | 5 3/4" | | | | | | | | | | New Door |
| 113 | | 3' - 0" | 7' - 0" | 1 3/4" | HM | F | | | | 5 3/4" | | | | | | | | | | New Door |
| 114 | | 3' - 0" | 7' - 0" | 1 3/4" | HM | NVG | | | | 5 3/4" | | | | | | | | | | New Door |
| 115 | | 3' - 0" | 7' - 0" | 1 3/4" | HM | NVG | | | | 5 3/4" | | | | | | | | | | New Door |
| 115A | | 3' - 0" | 7' - 0" | 1 3/4" | HM | F | | | | 5 3/4" | | | | | | | | | | New Door |
| 115A.1 | | 3' - 0" | 7' - 0" | 1 3/4" | HM | F | | | | 5 3/4" | | | | | | | | | | New Door |
| 116 | | 3' - 0" | 7' - 0" | 1 3/4" | HM | NVG | | | | 5 3/4" | | | | | | | | | | New Door |
| 117 | | 6' - 0" | 7' - 0" | 1 3/4" | HM | NGS | | | | 5 3/4" | | | | | | | | | | New Door |
| 118 | | 6' - 8" | 10' - 0" | | | 80" x 120" | | | | | | | | | | | | | | New Door |
| 135.1 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 149 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 150.1 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 150.2 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 150.3 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 151 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 154 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 155 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |
| 159 | | 3' - 0" | 6' - 8" | 1 3/4" | Door | F | | | | 8 5/8" | | | | | | | | | | New Door |




GENERIC AW/SF/CW/HM ELEVATION (C / A6.1)
N.T.S.




HOLLOW METAL FRAME TYPES (B / A6.1)
N.T.S.




DOOR TYPES (A / A6.1)
N.T.S.

## DOOR SCHEDULE ABBREVIATION LEGEND:

| | | |
|---|---|---|
| AL | = | ALUMINUM |
| AW | = | ALUMINUM WINDOW |
| ARG | = | ASSAULT RESISTANT GLAZING |
| BN | = | BULLNOSE |
| BR | = | BULLET RESISTANT GLAZING |
| CW | = | CURTAINWALL |
| F | = | FIRE RATED GLAZING |
| HM | = | HOLLOW METAL |
| I | = | INSULATED |
| IFA | = | INTEGRATED FRAME ASSEMBLY |
| IP | = | INFILL PANEL |
| L | = | LAMINATED |
| O | = | OBSCURE GLAZING |
| S | = | SMOKE |
| SF | = | STOREFRONT |
| SPG. | = | SPANDREL GLAZING |
| T. | = | TEMPERED |
| T.I. | = | TEMPERED INSULATED |
| W | = | WIRE GLASS |
| WD | = | WOOD |

*SEE DRAWING A0.1 FOR MORE ABBREVIATIONS.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DOORS AND FRAME SCHEDULE
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
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DOORS AND FRAME SCHEDULE

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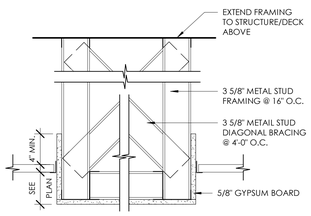
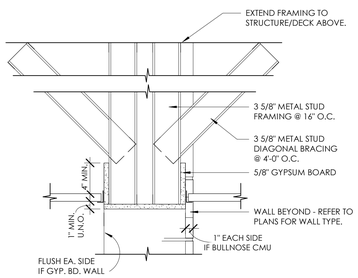
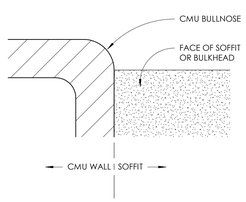



TYPICAL SOFFIT DETAIL (D / A7.1)
1 1/2" = 1'-0"




TYPICAL BULKHEAD DETAIL (C / A7.1)
1 1/2" = 1'-0"




PLAN VIEW

TYPICAL SOFFIT DETAIL (B / A7.1)
N.T.S.

FIRST FLOOR (1 / A7.1)
1/8" = 1'-0"

## MATERIAL REFERENCE

## GENERAL RCP NOTES

1. LIGHT FIXTURES AND HVAC ITEMS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS, SPRINKLER HEADS AND LIGHTING FIXTURES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
2. SOFFITS AND BULKHEADS WILL RECEIVE ACCENT PAINT COLOR(S) TBD. HORIZONTAL AND VERTICAL SURFACES OF SOFFITS AND BULKHEADS WILL BE PAINTED AN ACCENT COLOR.
3. ALL GYPSUM BOARD CEILINGS, SOFFITS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, AND ETC., REMAINING EXPOSED AFTER CONSTRUCTION IS COMPLETE WILL RECEIVE A FINISH SYSTEM U.N.O. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.
4. REFER TO THE A1 DRAWINGS FOR REQUIRED FIRE RATINGS OF WALLS AND CEILINGS.
5. DIMENSIONS OF SOFFITS ARE TO THE FACE OF FINISHED GYPSUM BOARD.
6. ELEVATIONS INDICATED ARE TO THE BOTTOM OF FINISH MATERIAL FROM ABOVE FINISH FLOOR.
7. GYPSUM BOARD IS TO BE EXTENDED FOUR INCHES MINIMUM ABOVE FINISHED CEILINGS AT SOFFITS AND BULKHEADS THAT ARE NOT REQUIRED TO MAINTAIN A FIRE RATING OR ACOUSTIC SEPARATION.
8. RECESS FACE OF GYPSUM BOARD INTERIOR SOFFITS AND BULKHEADS ONE INCH FROM FACE OF BULLNOSE CMU.

## RCP NOTES

| # | |
|---|---|
| 1 | GYPSUM BOARD SOFFIT/BULKHEAD. REFER TO TYPICAL DETAILS. (092116). |
| 2 | GYPSUM BOARD CEILING. PROVIDE FRAMING AND SUPPORTS AS REQUIRED (092116). |
| 3 | 1-HR RATED GYPSUM BOARD CEILING PER UL DESIGN NO. P523 |
| 4 | SPECIALTY LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. |
| 5 | UTILITY CHASE |
| 9 | OPEN TO ABOVE; EXPOSED STRUCTURE. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION. |
| 12 | EXISTING CEILING TO REMAIN. |
| 16 | LINEAR METAL CEILING SYSTEM (095423.A) |

## RCP LEGEND

- ROOM NAME / ROOM NUMBER # / CLG. HGT. # — ROOM TAG W/ CEILING HEIGHT
- X'-X" — BOTTOM OF SOFFIT ELEVATION ABOVE FINISHED FLOOR
- ACOUSTICAL CEILING TILE & GRID. REFER TO A2 SHEETS FOR SIZES & TYPES
- GYPSUM BOARD BULKHEAD/SOFFIT/CEILING
- CROWN MOULDING
- HVAC DIFFUSER
- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXIT LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- TUBULAR SKYLIGHT


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION

# REFLECTED CEILING PLAN - AREA A
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY


M.E.&P Engineer:
Staggs & Fisher
3264 Lochness Dr.
Lexington, KY 40517
p 859.271.3246

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Construction Manager:
Codell Construction Co.
P.O. Box 17
Winchester, Kentucky 40392
p 859.744.2222


BG# 22-207

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| Project No: | 2148 |
| Drawn By: | KM/JK |
| Rev'd By: | JR/PF |

SHEET RELEASE

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DESIGN DEVELOPMENT

# A7.1

REFLECTED CEILING PLAN - AREA A
DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |

## SITE UTILITIES PLAN

SCALE: 1" = 30'-0"

**NOTE:**

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

**GENERAL NOTES:**

1. THIS CONTRACTOR SHALL COORDINATE ALL SITE UTILITY WORK REQUIRED WITH LOCAL UTILITY COMPANIES TO MEET PROJECT SCHEDULE. ALL REQUIRED SUBMITTALS AND ASSOCIATED FEES BY THIS CONTRACTOR.
2. LOCATION OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
3. THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTED, UNCHARTED, OR MIS-LOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO SATISFACTION OF THE OWNER.
4. SHOULD EXISTING UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
5. EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITIES DURING CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THE OWNER WILL NOT LOCATE THE UTILITIES FOR THE CONTRACTOR. IF AN OUTSIDE SERVICE OR COMPANY IS REQUIRED TO ACCURATELY LOCATE BURIED UTILITIES THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THIS WORK AND IS RESPONSIBLE FOR THE COSTS. THE CONTRACTOR SHOULD CONTACT APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATING.
7. TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
8. INSTALL DOMESTIC WATER PIPING WITH 3'-6" MINIMUM COVER.
9. INSTALL FIRE PROTECTION WITH 4'-0" MINIMUM COVER.
10. INSTALL NATURAL GAS PIPING WITH 2'-0" MINIMUM COVER.
11. INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
12. EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK ENCOUNTERED IN TRENCH EXCAVATION.
13. SITE LIGHTING CIRCUITS SHALL BE #6 CONDUCTORS IN 1-1/4" CONDUITS.
14. TESTING OF EXTERIOR SEWER MANHOLES SHALL BE AS FOLLOWS:
    - A. EXTERIOR SANITARY SEWER SHALL BE PLUGGED BETWEEN MANHOLES AND SUBJECTED TO AN AIR PRESSURE TEST WITH ALL OPENINGS TIGHTLY CLOSED. AIR SHALL BE PUMPED IN UNTIL THE PRESSURE IS NOT LESS THAN 5 POUNDS PER SQUARE INCH. THE AIR PRESSURE GAGE SHALL REMAIN CONSTANT WITHOUT PUMPING ADDITIONAL AIR INTO THE SYSTEM.
    - B. MANHOLE SHALL BE PLUGGED AND FILLED WITH WATER AND A VISUAL INSPECTION MADE FOR LEAKS. ALL LEAKS SHALL BE CORRECTED.
    - C. ALL TESTS SHALL BE DONE PRIOR TO BACKFILLING.

**CODED NOTES:**

1. EXISTING GAS SERVICE LINE TO BE RELOCATED FOR NEW ADDITION. COORDINATE WITH LOCAL UTILITY PRIOR TO CONSTRUCTION.
2. RECONNECT TO EXISTING GAS SERVICE LINE AS REQUIRED.
3. EXISTING 8" WATER LINE TO BE RELOCATED FOR NEW ADDITION. COORDINATE WITH LOCAL UTILITY PRIOR TO CONSTRUCTION.
4. RECONNECT TO EXISTING 8" WATER SERVICE AS REQUIRED.
5. EXISTING SANTIARY MANHOLE TO REMAIN. RECONNECT AND REWORK FLOW CHANNELS AS REQUIRED.
6. RECONNECT TO EXISTNG MANHOLE AND REWORK FLOW CHANNELS AS REQUIRED. MATCH EXISTING INVERTS. FIELD VERIFY PRIOR TO CONSTRUCTION.
7. PROVIDE POLE BASE PER "POLE BASE DETAIL - TYPE A ".
8. TWO (2) 4" SCH 40 PVC CONDUITS FOR KENTUCKY UTILITIES PRIMARY ELECTRIC. INSTALL 200 POUND PULL STRING IN CONDUITS. 42" MINUMUM BURY.
9. ROUTE PRIMARY CONDUITS TO KENTUCKY UTILITIES' FACILITIES. COORDINATE TERMINATION POINT AND REQUIREMENTS WITH KENTUCKY UTILITIES.
10. EXISTING ELECTRIC TRANSFORMER.
11. RUN ONE 4" SCH 40 PVC DUCT FOR FIBER SERVICES. INSTALL 200 POUND PULL STRING IN DUCT. 30" MINIMUM BURY. MAKE FIBER CONNECTION FROM CONDUIT TO DEMARC LOCATION IN MEDIA CENTER RM 500.
12. INSTALL KENTUCKY UTILITIES UNDER GRADE PULL BOX. PULL BOX WILL BE PROVIDED BY KU. ROUTE PRIMARY CONDUITS INTO PULL BOX, COORDINATE REQUIREMENTS WITH KU.
13. ONE 3" CONDUIT FOR FIBER OPTIC SERVICE, ONE 3" CONDUIT FOR ANALOG VOICE SERVICE, ONE 2" CONDUIT FOR CABLE TELEVISION SERVICE, AND ONE SPARE 3" CONDUIT.
14. EXISTING SANTIARY MANHOLE AND ASSOCIATED SANITARY MAIN TO BE REMOVED.
15. EXISTING 8" WATER LINE TO BE REMOVED.
16. EXISTING GAS SERVICE LINE TO BE REMOVED.
17. EXISTING UTILITY POLE TO BE REMOVED. CONTRACTOR IS TO CONTACT KENTUCKY UTILITES, WINDSTREAM, AND IRVINE COMMUNITY CABLE FOR REMOVAL OF POLE AND SERVICES.
18. NEW UTILITY POLE. CONTRACTOR IS TO CONTACT KENTUCKY UTILITES FOR EXACT LOCATION AND INSTALLATION OF NEW UTILITY POLE.
19. NEW PAD MOUNTED TRANSFORMER FOR STORAGE BUILDING.
20. THIS CIRCUIT IS TO BE RAN TO EXISTING PANEL "G" LOCATED ON THE MEZZANINE. SEE NOTE 21 THIS SHEET.
21. MEZZANINE SHOWN HERE AS THE HATCHED REGION. PANEL "G" IS LOCATED ON THE MEZZANINE.
22. PROVIDE POLE BASE PER "POLE BASE DETAIL - TYPE B ".
23. NEW UNDERGROUND SECONDARY ELECTRIC.
24. EXISTING KENTUCKY UTILITITES UTILITY POLE AND LIGHT FIXTURE SHALL REMAIN. KU WILL RE-FEED POWER TO LIGHT FROM A DIFFERENT LOCATION.


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# SITE UTILITIES PLAN

## ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG #

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | DH / VB / RG |
| Rev'd By: | JS / WT |

SHEET RELEASE

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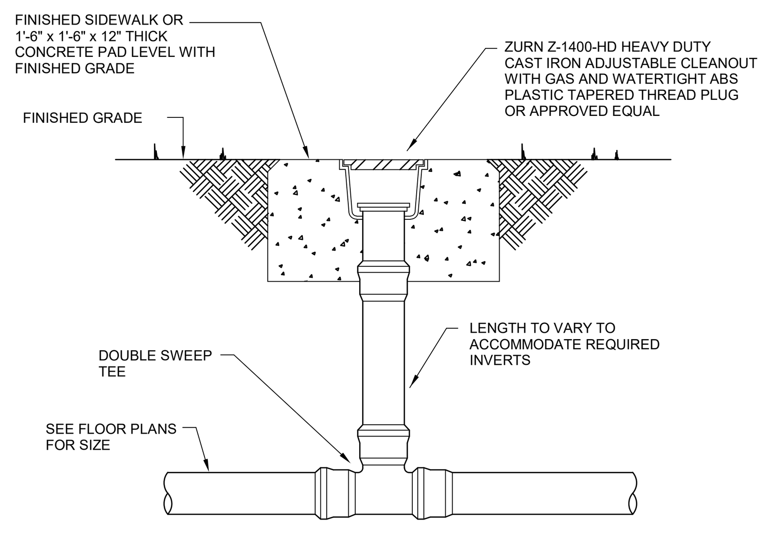
DESIGN DEVELOPMENT

U1.1

SITE UTILITIES PLAN

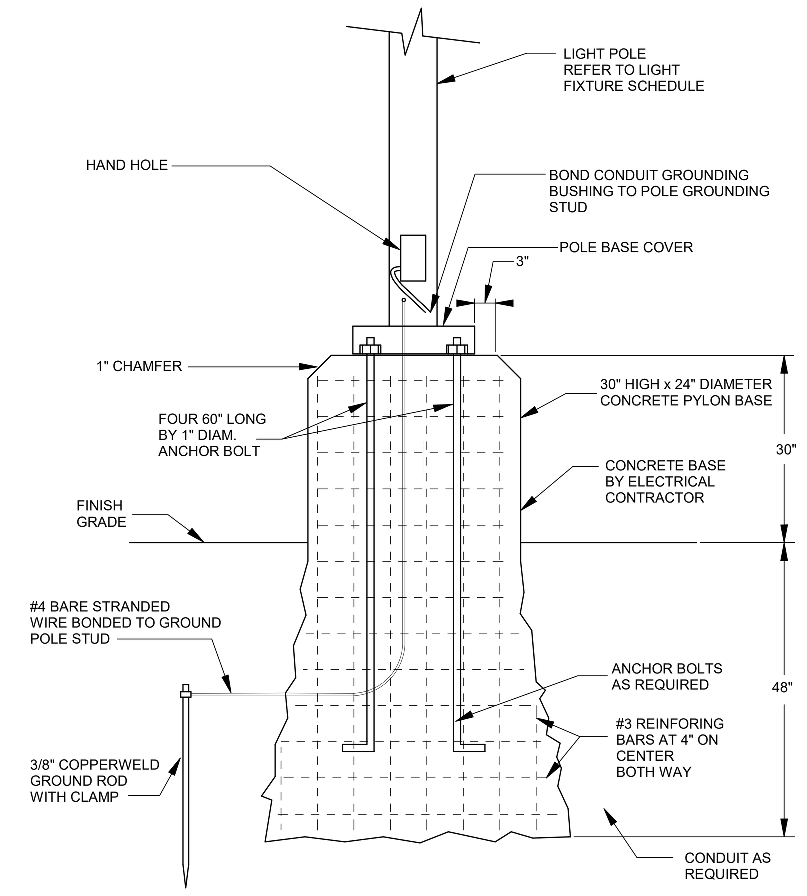
DATE ISSUED:
FEBRUARY 22, 2022

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |



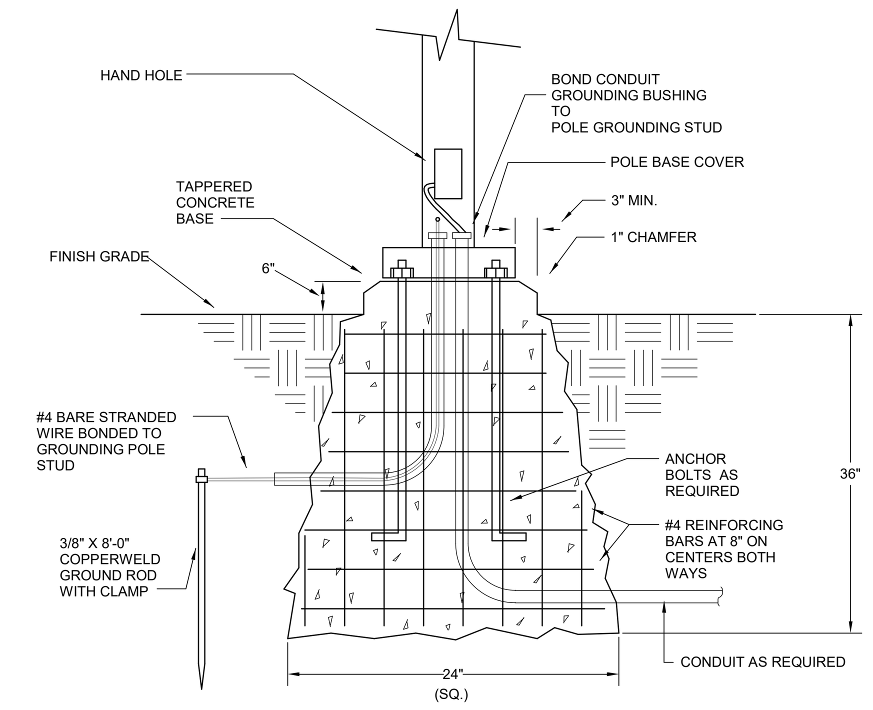

EXTERIOR GRADE 2-WAY CLEANOUT DETAIL

SCALE: NONE



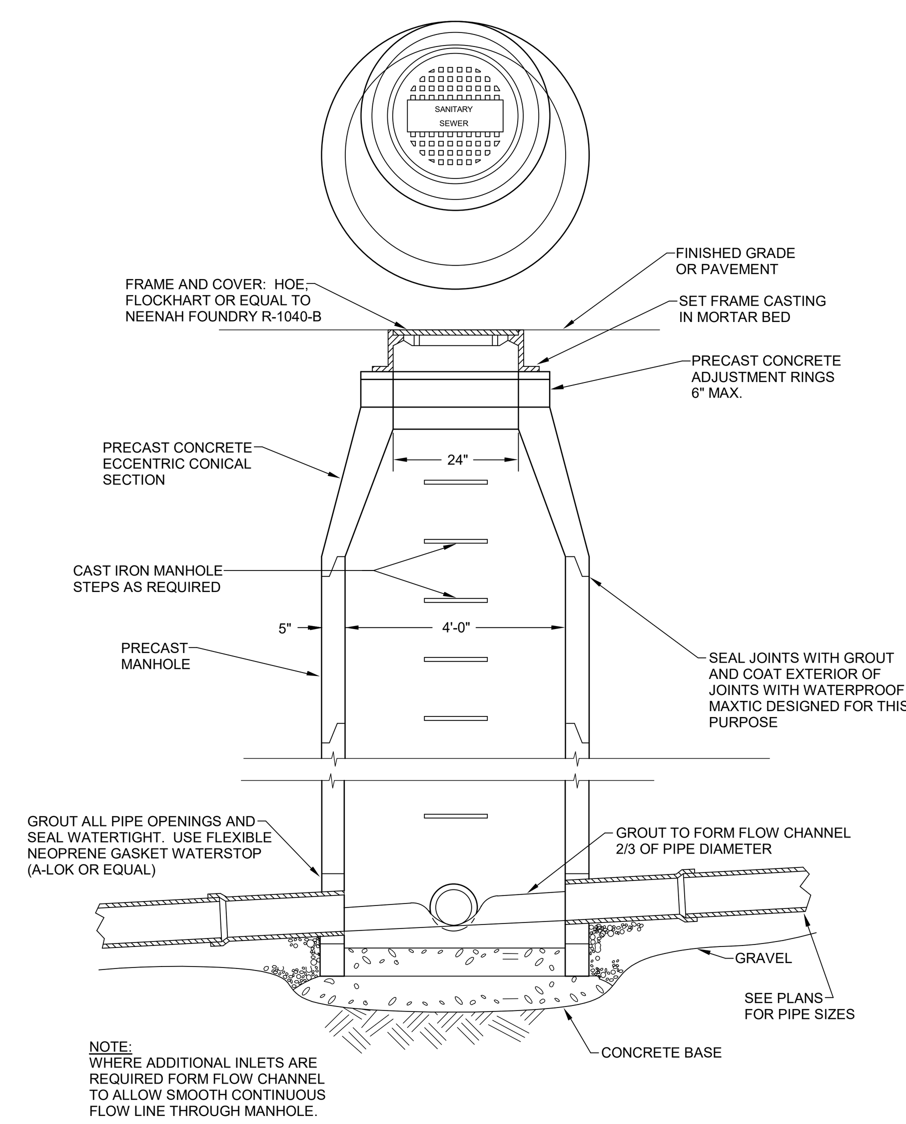

POLE BASE DETAIL - TYPE A

SCALE: NONE




POLE BASE DETAIL - TYPE B

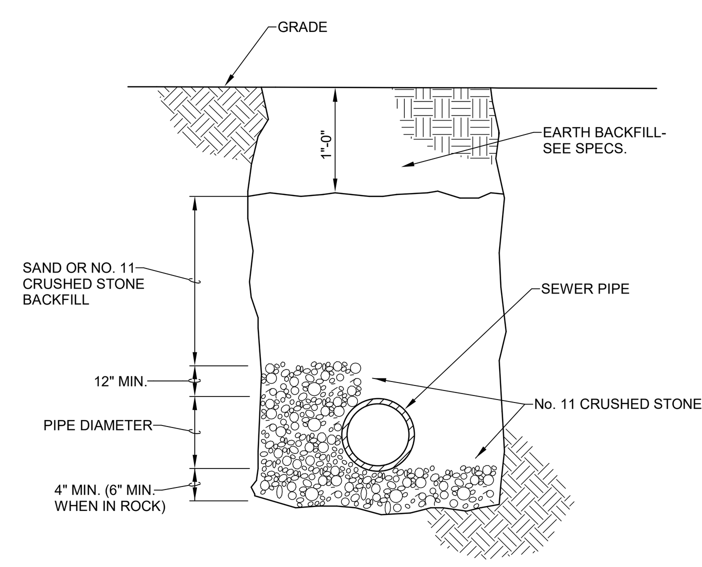
SCALE: NONE




NOTE:
WHERE ADDITIONAL INLETS ARE REQUIRED FORM FLOW CHANNEL TO ALLOW SMOOTH CONTINUOUS FLOW LINE THROUGH MANHOLE.

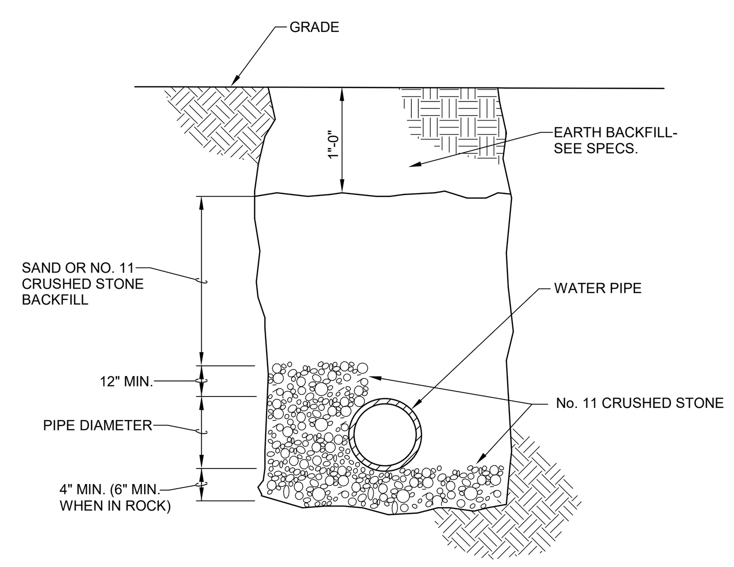
SANITARY MANHOLE DETAIL

SCALE: NONE



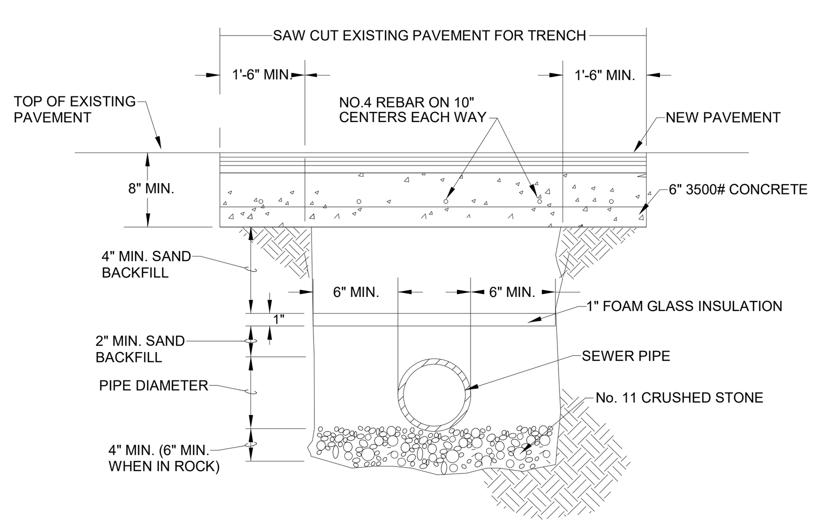

EXTERIOR SEWER PIPING INSTALLATION DETAIL

SCALE: NONE



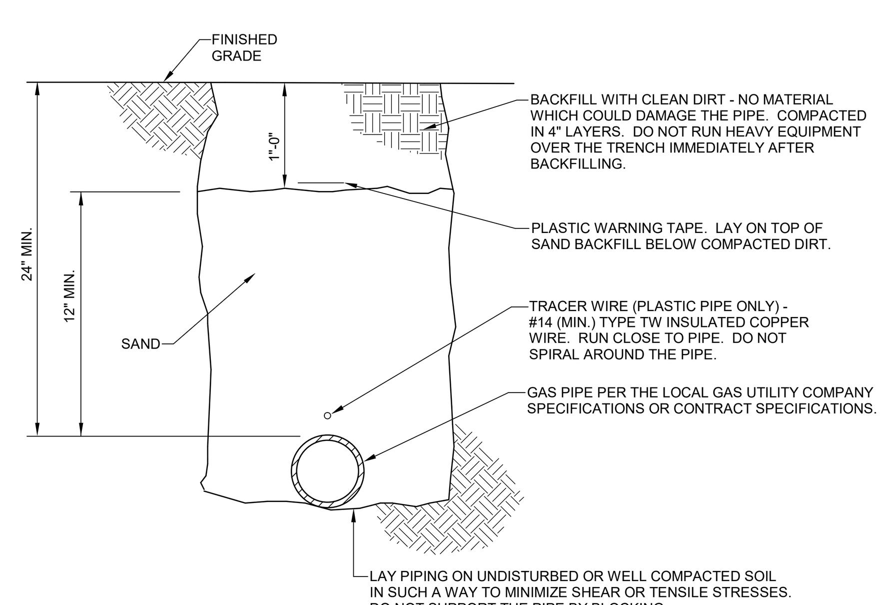

EXTERIOR WATER PIPING INSTALLATION DETAIL

SCALE: NONE




EXTERIOR SEWER OR WATER PIPING UNDER PAVED AREA

SCALE: NONE

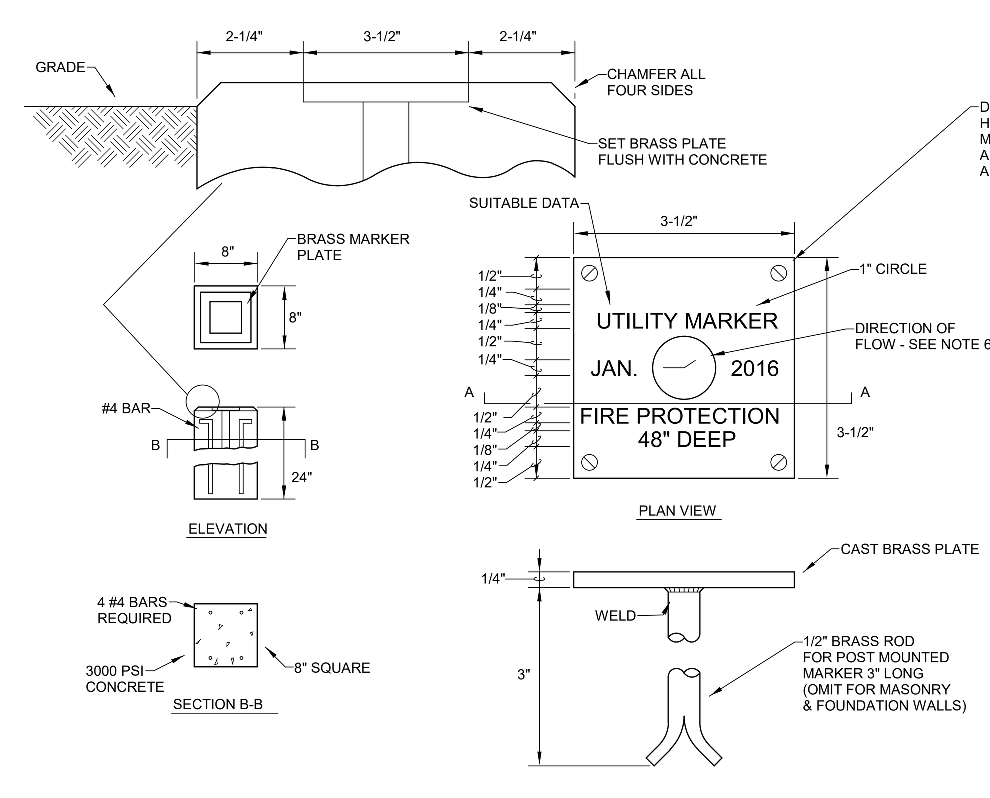



NOTES:

1. ALL GAS SUPPLY INSTALLATION WILL BE IN ACCORDANCE WITH THE REGULATIONS AND RECOMMENDATIONS OF THE LOCAL GAS UTILITY COMPANY.
2. INSTALL PLASTIC PIPE WITH SUFFICIENT SLACK FOR CONTRACTION.

EXTERIOR GAS PIPING INSTALLATION DETAIL

SCALE: NONE




NOTES:

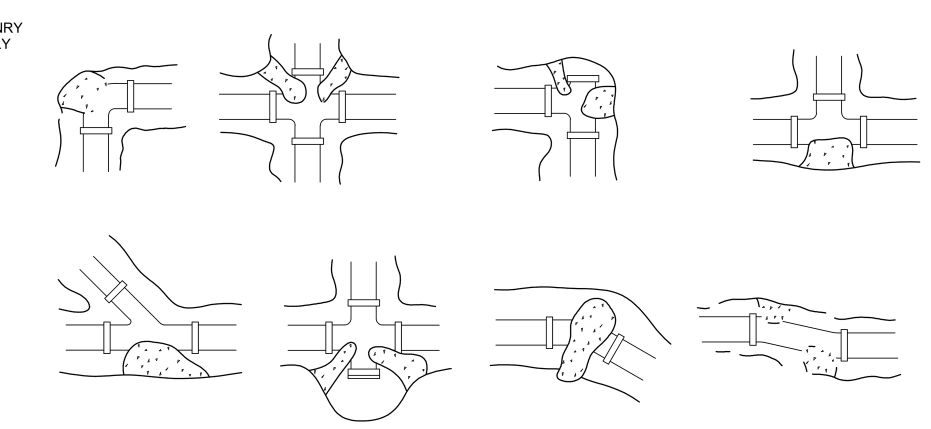
1 MARKERS SHALL BE LOCATED WHERE INDICATED ON DRAWINGS AND AT BUILDING/VAULT/TUNNEL ENTRANCE/EXIT AND EVERY CHANGE IN DIRECTION.
2 BRASS MARKERS SHALL BE CAST BY BRUCE FOX COMPANY, NEW ALBANY, INDIANA (WWW.BRUCEFOX.COM), OR EQUAL.
3 ALL LETTERING SHALL BE OF THE RAISED TYPE. LETTERING SHOWN ON MARKER IS FOR EXAMPLY ONLY. LETTERING TO BE RAISED 1/8".
4 AT THE CONTRACTOR'S OPTION, ONE MARKER MAY BE USED FOR COMPANION MAINS THAT ARE LOCATED CLOSE TOGETHER SUCH AS STEAM AND CONDENSATE PUMP DISCHARGE PIPING OR CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING. PROVIDE ARROW FOR EACH MAIN.
5 CONTRACTOR SHALL FURNISH A COMPLETE LIST FOR APPROVAL OF ALL MARKERS SHOWING NAMES, ARROWS, DEPTH AND DATE.
6 WHEN UTILITY MARKERS ARE INSTALLED OVER LINES AT A POINT OF DIRECTION CHANGE, THE ARROW ON THE MARKERS SHALL BE "ANGLED" AS REQUIRED TO IMPLY THIS ROUTING.

UTILITY SERVICE MARKER DETAIL

NO SCALE

## SITE UTILITIES LEGEND

| MECHANICAL | | ELECTRICAL | |
|---|---|---|---|
| ES | EXISTING SANITARY SEWER | EOE | EXISTING OVERHEAD ELECTRIC |
| S | NEW SANITARY SEWER | OE | OVERHEAD ELECTRIC |
| ESS | EXISTING STORM SEWER | OE/T | OVERHEAD ELECTRIC/TELEPHONE |
| SS | NEW STORM SEWER | EE | EXISTING ELECTRIC UNDERGROUND |
| FP | FIRE PROTECTION LINE | // | BRANCH CIRCUIT UNDERGROUND |
| EW | EXISTING COLD WATER SERVICE | P | UNDERGROUND PRIMARY SERVICE |
| W | NEW COLD WATER SERVICE | UE | UNDERGROUND SECONDARY SERVICE |
| EHPG | EXISTING HIGH PRESSURE GAS | ET | EXISTING TELEPHONE UNDERGROUND |
| HPG | NEW HIGH PRESSURE GAS | T | UNDERGROUND TELEPHONE CONDUIT |
| EG | EXISTING GAS | TV | UNDERGROUND TELEVISION CONDUIT |
| G | NEW GAS | | LIGHTING STANDARD |
| | VALVE WITH VALVE BOX | | EXISTING POST LIGHT |
| M | UTILITY MARKER | | POST LIGHT |
| | THRUST BLOCK | | PANELBOARD OR TERMINAL CABINET (REFER TO PLANS AND RISER FOR SIZE) |
| C.I. | CAST IRON | | SECTIONAL SWITCH GEAR (REFER TO PLANS AND RISER FOR NUMBER OF SECTIONS AND LAYOUT) |
| ELEV. | ELEVATION | | |
| EXIST. | EXISTING | | TRANSFORMER (REFER TO PLANS AND RISER FOR SIZE) |
| F.H. | FIRE HYDRANT | J | JUNCTION BOX |
| G.C.O. | GRADE CLEANOUT | | ENCLOSED CIRCUIT BREAKER |
| I.E. | INVERT ELEVATION | | DISCONNECT SWITCH |
| P.I.V. | POST INDICATOR VALVE | | FUSED DISCONNECT |
| P.V.C. | POLYVINYL CHLORIDE PIPING | | COMBINATION MAGNETIC STARTER AND FUSED SWITCH |
| T.E. | TOP ELEVATION | | MOTOR |
| | | HOT / GROUND / NEUTRAL | WIRE / CONDUIT |
| | | 12 | BOTTOM OF DEVICE (IN INCHES A.F.F.) |
| | | 1 | SEE NOTE 1 THIS SHEET |
| | | HW ?? | HEADWALL - FOR SERVICES, SEE DETAILS |
| | | | GROUND |
| | | | DUPLEX CONVENIENCE OUTLET |
| | | | QUADRAPLEX CONVENIENCE OUTLET |
| | | GFI | GROUND FAULT INTERRUPTING OUTLET |
| | | WP | WEATHERPROOF OUTLET |
| | | SW | SWITCHED/CONTROLLED DUPLEX OUTLET |
| | | E | DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT |
| | | CM | CEILING MOUNTED RECEPTACLE. |
| | | USB | USB DUPLEX RECEPTACLE. |
| | | | SIMPLEX WALL OUTLET (RATING AS NOTED) |
| | | | WALL OUTLET (240V, 1-PHASE) (RATING AS NOTED) |
| | | | WALL OUTLET (240V, 3-PHASE) (RATING AS NOTED) |
| | | | EQUIPMENT CONNECTION |



| THRUST/POUND OF PRESSURE | | | | |
|---|---|---|---|---|
| PIPE SIZE | DEAD END OF TEE | 1/4 BEND | 1/8 BEND | 1/6 BEND |
| 4" & SMALLER | 20 | 40 | 27 | 20 |
| 6 | 39 | 60 | 34 | 24 |
| 8 | 68 | 100 | 56 | 31 |
| 10 | 110 | 160 | 89 | 48 |

AREA OF BLOCKING = THRUST PER POUND / SOIL BEARING VALUE X 150

| SOIL BEARING VALUES | |
|---|---|
| TYPE SOIL | PSF |
| CEMENTED GRAVEL | 4000 |
| COMPACTED SAND | 3000 |
| MEDIUM CLAY | 2000 |
| SOFT CLAY | 1000 |

NOTE: THRUST BLOCKING IS REQUIRED AT CHANGES IN DIRECTION IN PIPING SYSTEMS THAT CARRY PRESSURIZED FLUIDS.

THRUST BLOCK DETAIL

SCALE: NONE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SITE DETAILS AND LEGENDS
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG #

Project No: 2148
Drawn By: DH / VB / RG
Rev'd By: JS / WT

| SHEET RELEASE | | |
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DESIGN DEVELOPMENT

U2.1

SITE DETAILS AND LEGENDS

DATE ISSUED: FEBRUARY 22, 2022

| REVISIONS | | |
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| # | DATE | DESCRIPTION |

# MECHANICAL LEGEND

## PLUMBING LEGEND

| | |
|---|---|
| S | SANITARY OR WASTE PIPING |
| V | VENT PIPING |
| KW | KITCHEN WASTE PIPING |
| AW | ACID WASTE PIPING |
| AWV | ACID WASTE VENT PIPING |
| RL | ROOF LEADER PIPING |
| ORL | OVERFLOW ROOF LEADER PIPING |
| SS | STORM SEWER PIPING |
| SPD | ELEVATOR SUMP PUMP DISCHARGE PIPING |
| DCW | COLD WATER PIPING |
| DHW | DOMESTIC HOT WATER PIPING |
| DHWR | DOMESTIC HOT WATER RECIRCULATING PIPING |
| DHWXXX | DOMESTIC HOT WATER SUPPLY PIPING (XXX) INDICATES TEMPERATURE |
| DHWRXXX | DOMESTIC HOT WATER RECIRCULATING PIPING (XXX) INDICATES TEMPERATURE |
| G | GAS PIPING |
| A | AIR PIPING |
| VAC | VACUUM PIPING |
| SCW | SOFT COLD WATER |
| RO | REVERSE OSMOSIS WATER PIPING |
| ROR | REVERSE OSMOSIS WATER RETURN PIPING |
| LCW | LAB COLD WATER PIPING |
| LHW | LAB HOT WATER PIPING |
| LHWR | LAB HOT WATER RECIRCULATING PIPING |
| | GATE VALVE |
| | BALL VALVE |
| | CHECK VALVE |
| | UNION |
| P | PRESSURE GAUGE |
| T | THERMOMETER |
| WVR " " RISER DES. DWG. NO. | WASTE AND VENT RISER DIAGRAM DESIGNATION |
| HCR " " RISER DES. DWG. NO. | DOMESTIC HOT/COLD WATER RISER DIAGRAM DESIGNATION |

## PLUMBING ABBREVIATIONS

| | |
|---|---|
| CI | CAST IRON |
| PCO | PIPE CLEANOUT |
| FCO | FLOOR CLEANOUT |
| WCO | WALL CLEANOUT |
| GCO | GRADE CLEANOUT |
| DCW | DOMESTIC COLD WATER |
| FD | FLOOR DRAIN |
| DHW | DOMESTIC HOT WATER |
| OHD | OPEN HUB DRAIN |
| OR | OPEN RECEPTACLE |
| PVC | POLY-VINYL CHLORIDE |
| RD | ROOF DRAIN |
| SA | SHOCK ARRESTOR |
| VTR | VENT-THROUGH-ROOF |
| VCP | VITRIFIED CLAY PIPE |
| ORD | OVERFLOW ROOF DRAIN |
| WH | WALL HYDRANT |
| HB | HOUSE BIBB |
| IMB | ICE MAKER BOX |

## FIRE PROTECTION LEGEND

| | |
|---|---|
| FP | FIRE PROTECTION MAIN (REFER TO PLANS FOR PIPE SIZE) |
| | SUPERVISED VALVE |
| | INSPECTOR'S TEST PIPING |
| | FLOW SWITCH |
| P | PRESSURE GAUGE |
| | SPRINKLER HEAD (SEMI-RECESSED) |
| | SPRINKLER HEAD (CONCEALED) |
| | SPRINKLER HEAD (PENDENT) |
| D | SPRINKLER HEAD (PENDENT - DRY TYPE) |
| HT | SPRINKLER HEAD (HIGH TEMPERATURE) |
| | SPRINKLER HEAD (UPRIGHT) |
| | SPRINKLER HEAD (SIDEWALL - EXISTING) |
| | SPRINKLER HEAD (SIDEWALL) |
| E | SPRINKLER HEAD (SIDEWALL-EXTENDED COVERAGE) |

## HVAC LEGEND

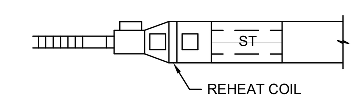
| | |
|---|---|
| 14"x8" | RECTANGULAR DUCT -- WIDTH X DEPTH (REFER TO PLANS FOR DUCT SIZE) |
| | INTERNALLY LINED DUCT |
| 14"x8" RD | OVAL DUCT -- WIDTH X DEPTH |
| 8" RD | |
| | FLEXIBLE DUCT |
| | RISE IN DIRECTION OF ARROW |
| | RECTANGULAR TO ROUND TRANSITION |
| | SQUARE ELBOW WITH TURNING VANES |
| | MANUAL VOLUME/BALANCING DAMPER |
| FD | FIRE DAMPER |
| | ROUND DUCT -- UP, DOWN |
| | SUPPLY DUCT -- UP, DOWN |
| | RETURN DUCT -- UP, DOWN |
| | EXHAUST DUCT -- UP, DOWN |
| | FLEXIBLE CONNECTION |
| M | MOTOR-OPERATED DAMPER |
| | CONTROL DAMPER |
| | SOUND TRAP |
| | ACCESS DOOR -- PLAN, SIDE VEIW |
| HC-1 1.0 | UNIT SYMBOL, WATER FLOW(GPM) |
| SP | STATIC PRESSURE SENSOR IN DUCT |
| T | TEMPERATURE SENSOR |
| C | CO2 SENSOR |
| H | HUMIDITY SENSOR |
| F | FREEZESTAT |
| CSS | CURRENT SENSING SWITCH |
| DPS | DIFFERENTIAL PRESSURE SWITCH |
| VFD | VARIABLE FREQUENCY DRIVE |
| STR | STARTER |
| S-1 250 CFM | SUPPLY DIFFUSER -- TYPE, AIR QUANTITY |
| | SUPPLY DIFFUSER -- ELEVATION |
| R-1 250 CFM | RETURN INLET -- TYPE, AIR QUANTITY |
| | SIDEWALL RETURN GRILLE -- ELEVATION |
| | SIDEWALL RETURN GRILLE -- PLAN |
| E-1 250 CFM | EXHAUST INLET -- TYPE, AIR QUANTITY |
| | EXHAUST/RETURN INLET -- ELEVATION |

## HVAC PIPING LEGEND

| | |
|---|---|
| HPS | HIGH PRESSURE STEAM (REFER TO PLANS FOR PIPE SIZE) |
| HPR | HIGH PRESSURE CONDENSATE RETURN (REFER TO PLANS FOR PIPE SIZE) |
| LPS | LOW PRESSURE STEAM (REFER TO PLANS FOR PIPE SIZE) |
| LPR | LOW PRESSURE CONDENSATE RETURN (REFER TO PLANS FOR PIPE SIZE) |
| SV | STEAM VENT (REFER TO PLANS FOR PIPE SIZE) |
| SV V | SAFETY RELIEF VALVE VENT (REFER TO PLANS FOR PIPE SIZE) |
| PD | CONDENSATE PUMP DISCHARGE (REFER TO PLANS FOR PIPE SIZE) |
| FW | FEEDWATER (REFER TO PLANS FOR PIPE SIZE) |
| CWS | CHILLED WATER SUPPLY (REFER TO PLANS FOR PIPE SIZE) |
| CWR | CHILLED WATER RETURN (REFER TO PLANS FOR PIPE SIZE) |
| HWS | HOT WATER SUPPLY (REFER TO PLANS FOR PIPE SIZE) |
| HWR | HOT WATER RETURN (REFER TO PLANS FOR PIPE SIZE) |
| CDS | CONDENSER WATER SUPPLY (REFER TO PLANS FOR PIPE SIZE) |
| CDR | CONDENSER WATER RETURN (REFER TO PLANS FOR PIPE SIZE) |
| DCW | DOMESTIC COLD WATER (REFER TO PLANS FOR PIPE SIZE) |
| SW | SOFT WATER (REFER TO PLANS FOR PIPE SIZE) |
| HWET | HOT WATER EXPANSION TANK PIPE (REFER TO PLANS FOR PIPE SIZE) |
| CWET | CHILLED WATER EXPANSION TANK PIPE (REFER TO PLANS FOR PIPE SIZE) |
| CD | CONDENSATE DRAIN (REFER TO PLANS FOR PIPE SIZE) |
| REF | REFRIGERATE LINE (REFER TO PLANS FOR PIPE SIZE) |
| | GATE VALVE (SCREWED) - - PLAN, END VIEW |
| | GATE VALVE (FLANGED) - - PLAN, END VIEW |
| HP | TRIPLE OFFSET ROTARY VALVE - - PLAN, END VIEW |
| | GLOBE VALVE (SCREWED) - - PLAN, END VIEW |
| | GLOBE VALVE (FLANGED) - - PLAN, END VIEW |
| S | CHECK VALVE; SILENT CHECK VALVE |
| | CHECK VALVE |
| | BUTTERFLY VALVE -- PLAN, END VIEW |
| | BUTTERFLY VALVE |
| HP | HIGH PERFORMANCE BUTTERFLY VALVE - PLAN, END VIEW |
| | 3-WAY CONTROL VALVE; 2-WAY CONTROL VALVE |
| | COMB. BALANCING SHUT-OFF VALVE - - PLAN, END VIEW |
| | 0.5-2" BALANCING VALVE |
| | 2.5-12" BALANCING VALVE |
| | BALL VALVE |
| | STEAM TRAP |
| | 3/4" DRAIN VALVE WITH HOSE CONNECTION |
| | SAFETY RELIEF VALVE |
| | Y-TYPE STRAINER WITH DRAIN VALVE |
| | Y STRAINER |
| | FLEXIBLE CONNECTOR |
| P | PRESSURE GAUGE |
| T | TEMPERATURE GAUGE |
| | UNION |
| | MANUAL AIR VENT -- PLAN, ELEVATION |
| AAV AAV | AUTOMATIC AIR VENT -- PLAN, ELEVATION |
| | CONCENTRIC REDUCER - - PLAN, ELEVATION |
| | ECCENTRIC REDUCER - - PLAN, ELEVATION |
| | FLANGED CONNECTION |
| | NEEDLE VALVE IN GAUGE LINE |
| FM | FLOW METER |
| F | FLOW SWITCH |
| T | TEMPERATURE SENSOR |
| P | PRESSURE SWITCH |
| DPS | DIFFERENTIAL PRESSURE SWITCH |
| BTU | BTU METER |

## VAV SYMBOL LEGEND

| | |
|---|---|
| VAV-6 100-300 | VAV UNIT - 6" RD INLET SIZE MINIMUM AND MAXIMUM AIR FLOWS |
| VAV-5 110-110 | VAV UNIT - 5" RD INLET SIZE CONSTANT MINIMUM AND MAXIMUM AIR FLOWS |
| VAVC-5 110-110 | VAV UNIT W/CO2 CONTROL - 5" RD INLET SIZE CONSTANT MINIMUM AND MAXIMUM AIR FLOWS |
| VAV-6 110-202 C 110-188 H | VAV UNIT - 6" RD INLET SIZE MINIMUM AND MAXIMUM COOLING AIR FLOWS MINIMUM AND MAXIMUM HEATING AIR FLOWS |
| VAVC-12 400-1340 CC 400-616 H | VAV UNIT W/CO2 CONTROL - 12" RD INLET SIZE MIN. AND MAX. COOLING & CO2 AIR FLOWS MINIMUM AND MAXIMUM HEATING AIR FLOWS |
| VAV-5 150-60-200 | VAV UNIT - 5" RD INLET SIZE MIN HEATING CFM - MIN COOLING CFM - MAX COOLING CFM |




| UNIT SIZE | INLET DUCT SIZE | SOUND TRAP | SUPPLY DUCT SIZE |
|---|---|---|---|
| VAV OR VAVC-5 | 5" RD | ST-1 | 12x12 |
| VAV OR VAVC-6 | 6" RD | ST-1 | 12x12 |
| VAV OR VAVC-8 | 8" RD | ST-2 | 15x15 |
| VAV OR VAVC-10 | 10" RD | ST-3 | 21x15 |
| VAV OR VAVC-12 | 12" RD | ST-4 | 27x15 |
| VAV OR VAVC-14 | 14" RD | ST-5 | 36x18 |

VARIABLE AIR VOLUME AIR TERMINAL
UNIT SOUND TRAP AND DUCT SIZING
UNLESS OTHERWISE NOTED

## HVAC ABBREVIATIONS

| | |
|---|---|
| A.A.V. | AUTOMATIC AIR VENT |
| A.D. | ACCESS DOOR |
| A.F. | ABOVE FLOOR |
| B.E. | BELLMOUTH ENTRANCE |
| C. | COMMON |
| D.P. | DIFFUSER PLATE |
| E.A. | EXHAUST AIR |
| E.M.D. | END OF MAIN DRIP |
| F.D. | FIRE DAMPER |
| F.M.S. | FLOW MEASURING STATION |
| F.S.D. | FIRE/SMOKE DAMPER |
| I.B. | INLET BELL |
| I.S. | INLET SCREEN |
| M.A.V. | MANUAL AIR VENT |
| M.D. | MOTOR OPERATED DAMPER |
| M.E. | MOISTURE ELIMINATORS |
| N.C. | NORMALLY CLOSED |
| N.O. | NORMALLY OPEN |
| O.A. | OUTSIDE AIR |
| P.A. | PRIMARY AIR |
| R.A. | RETURN AIR |
| S.A. | SUPPLY AIR |
| R.H. | RANGE HOOD |
| S.D. | SUCTION DIFFUSER |
| SM.D. | SMOKE DAMPER |
| T.A.V. | THERMOSTATIC AIR VENT |
| T.C.P. | TEMPERATURE CONTROL PANEL |
| V.B. | VACUUM BREAKER |
| V.D. | VOLUME DAMPER |

**NOTE:**

**THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THIS SET OF CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED THE ITEM SHALL BE FURNISHED AND INSTALLED.**

**PLUMBING DEMOLITION GENERAL NOTES:**

1. DEMOLITION DRAWINGS DEPICT THE MAJOR COMPONENTS TO BE REMOVED, BUT DO NOT NECESSARILY REFLECT EXACT ROUTES, AND MAY NOT SHOW ALL SYSTEMS, ADDITIONS, AND REVISIONS THERETO. THE CONTRACTOR SHALL EXAMINE THE FACILITIES AND PROVIDE COMPLETE SYSTEMS DEMOLITION EXCEPTING THOSE SYSTEMS TO REMAIN IN SERVICE.
2. PRIOR TO BEGINNING DEMOLITION CONFIRM ALL PIPING BRANCHES FROM AREA TO BE RENOVATED INTO AREAS AND SYSTEMS NOT BEING RENOVATED. BRING TO ATTENTION OF ARCHITECT/ENGINEER OF SYSTEMS THAT MAY BE AFFECTED.
3. REMOVE ALL PIPING, HANGERS, SLEEVES, AND ANY ITEMS RELATED TO PLUMBING DEMOLITION. REMOVE ALL SUCH ITEMS WHETHER REMOVED BY THIS PROJECT OR PREVIOUSLY ABANDONED.
4. CAP AND RE-INSULATE ALL ACTIVE PIPING LEFT UN-INSULATED DURING THE PROJECT DEMOLITION.
5. IDENTIFY ALL PLUMBING AND PIPING ITEMS, ACCORDING TO THE PROJECT SPECIFICATIONS, AT EACH CAPPED LOCATION.
6. ALL EXISTING SYSTEMS MUST REMAIN IN OPERATION IN EXISTING AREAS OF THE BUILDING THAT REMAIN OCCUPIED DURING CONSTRUCTION.
7. PROVIDE ADEQUATE TEMPORARY PLUMBING CONNECTIONS TO MAINTAIN SERVICES FOR ALL SPACES AFFECTED WHEN PERMANENT SYSTEMS ARE NOT AVAILABLE OR CAPABLE.
8. PATCH AND RESTORE SURFACES OF WALLS, FLOORS, AND CEILINGS TO REMAIN WHERE AFFECTED BY DEMOLITION PER THE ARCHITECTURAL SPECIFICATIONS.
9. FIRE-STOP AND CAULK ALL OPENINGS LEFT FROM DEMOLITION AND WHERE REQUIRED BY THE NFPA.
10. COORDINATE ALL SHUT-DOWNS WITH OWNER PRIOR TO DEMOLITION.
11. CUT AND CAP ALL SANITARY TO BE REMOVED BACK TO BELOW FLOOR. SANITARY PIPING BELOW EXISTING FLOOR SLAB TO REMAIN MAY BE CUT AND CAPPED BACK AT MAIN AND ABANDONED IN PLACE. REFER TO ARCHITECTURAL PLANS.
12. COORDINATE WITH OWNER PRIOR TO CONSTRUCTION FOR DEMOLITION OR NEW WORK REQUIRED OUTSIDE DEFINED LIMITS OF RENOVATION. SEE ARCHITECTURAL. PATCH AND REPAIR TO MATCH EXISTING ALL AFFECTED FINISHES PER ARCHITECTURAL SPECIFICATIONS.

**PLUMBING GENERAL NOTES:**

1. CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR REQUIRED CEILING HEIGHTS. PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILINGS UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL INSTALL FULL SIZE INDIRECT WASTES FROM EQUIPMENT REQUIRING SAME TO NEAREST FLOOR DRAIN, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENT IN THE FIELD. DO NOT SCALE THE DRAWINGS.
4. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
5. COORDINATE WITH MECHANICAL, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCES WITH PIPING, DUCTS, AND CONDUIT.
6. INSTALL PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. SEAL AIRTIGHT AROUND ALL PIPING PENETRATIONS THROUGH WALLS, FLOOR, AND ROOF.
8. VERIFY EXACT LOCATIONS OF ALL PLUMBING ROUGH-INS WITH ARCHITECT.
9. SLEEVES IN FLOORS SHALL EXTEND 1" ABOVE FINISHED FLOOR AND BE CAULKED FOR WATERTIGHT INSTALLATION. SEE SPECIFICATIONS.
10. SEE H.V.A.C. DRAWINGS FOR ADDITIONAL DETAILS APPLICABLE TO PLUMBING SYSTEM INSTALLATION.
11. SET EQUIPMENT PRESSURE REGULATING VALVE OUTLET PRESSURE WHERE NOTED ON DRAWINGS AT EQUIPMENT MANUFACTURER'S REQUIREMENTS.
12. COORDINATE WITH OWNER AND PROVIDE ADDITIONAL PIPING, DRAINS, VALVES, AND CONNECTIONS AS REQUIRED FOR OWNER FURNISHED EQUIPMENT. FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
13. CAP ALL PIPING 6" ABOVE FLOOR SLAB UNLESS OTHERWISE NOTED FOR FUTURE CONNECTION.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SITE AND STRUCTURAL. FIELD VERIFY ALL INVERTS PRIOR TO CONSTRUCTION.
15. MECHANICAL CONTRACTOR TO DESIGN AND INSTALL EXPANSION LOOPS IN DOMESTIC WATER IF REQUIRED BY MATERIAL USED.

**FIRE PROTECTION GENERAL NOTES:**

1. PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING UNLESS OTHERWISE NOTED.
2. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
3. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
4. COORDINATE WITH HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT TO AVOID INTERFERENCE WITH PIPING, DUCT AND CONDUIT.
5. INSTALL PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. SEAL AIRTIGHT AROUND ALL PIPING PENETRATIONS THROUGH WALLS, FLOORS, AND ROOF.
7. CENTER SPRINKLER HEADS IN SUSPENDED ACOUSTICAL CEILING TILES. SEE DETAIL ON THIS DRAWING.
8. PROVIDE DRAINS AT LOW POINTS PER NFPA-13.
9. PITCH ALL SPRINKLER PIPING TO MAIN. IF PIPING CANNOT BE PITCHED TO MAIN, PROVIDE AUXILIARY DRAINS AT LOW POINTS.
10. PROVIDE GUARDS ON ALL HEADS INSTALLED 8'-0" OR LESS ABOVE THE FLOOR UNLESS DIRECTED OTHERWISE BY ENGINEER.
11. IN MECHANICAL ROOMS OR SIMILAR AREAS WHERE INTERFERENCE OCCURS WITH SPRINKLER DISCHARGE, PROVIDE ADDITIONAL SPRINKLER HEAD(S) AS REQUIRED PER NFPA-13.
12. INDIVIDUAL BRANCH LINE SIZE TO A SPRINKLER HEAD SHALL BE 1".
13. ALL PIPING SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS, FLOORS, AND CEILINGS AND HORIZONTAL UNLESS SPECIFICALLY SHOWN OTHERWISE ON DRAWINGS OR UNABLE DUE TO INTERFERENCES.
14. PROVIDE SEISMIC BRACING FOR PIPING AND EQUIPMENT AS REQUIRED BY KENTUCKY BUILDING CODE. SEE SPECIFICATIONS.
15. DO NOT SUPPORT ANY PIPING FROM THE RAISED ACCESS FLOOR.

**HVAC GENERAL NOTES:**

1. DUCTWORK AND PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING EXCEPT IN EQUIPMENT ROOMS.
2. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS.
3. LOCATIONS OF PIPING, DUCT, AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
4. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
5. ALL INCREASERS AND REDUCERS IN PIPING SYSTEM ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL INCREASERS AND REDUCERS WHERE REQUIRED.
6. COORDINATE WITH PLUMBING, SHEET METAL, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCE WITH PIPING, DUCTS, AND CONDUIT.
7. INSTALL ALL PIPING, DUCTWORK, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. SEAL AIRTIGHT AROUND ALL DUCT AND PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
9. SEAL ALL DUCTWORK WITH DUCT SEALANT AND/OR DUCT CEMENT IN ACCORDANCE WITH SPECIFICATIONS SECTION "METAL DUCTWORK."
10. DIMENSIONS FOR DUCTS ARE INSIDE DIMENSIONS.
11. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS IN CEILINGS.
12. DO NOT RUN ANY PIPING OR DUCTWORK OVER ANY ELECTRICAL OR ELEVATOR EQUIPMENT.
13. INSTALL ACCESS DOOR IN DUCT ADJACENT TO EACH MOTOR OPERATED DAMPER.
14. ROLL FITTINGS IN ROUND DUCT AS REQUIRED FOR PROPER CONNECTIONS TO BRANCH DUCTS.
15. WHERE SIZE OF DUCT PENETRATING A FIRE WALL OR PARTITION IS LESS THAN THE MINIMUM SIZE OF FACTORY-MADE FIRE DAMPER OR DUCT ACCESS DOOR, PROVIDE THE MINIMUM SIZE FACTORY MADE DAMPER AND/OR ACCESS DOOR AVAILABLE. INCREASE DUCT SIZE AS REQUIRED TO ACCOMMODATE TRANSITIONS UPSTREAM AND DOWN STREAM OF SIZE INCREASE.
16. ALL TRANSITIONS IN DUCTWORK ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL TRANSITIONS WHERE REQUIRED.
17. FIELD VERIFY EXISTING CONDITIONS AND ALL REQUIRED MEASUREMENTS BEFORE FABRICATING ANY PIPING, DUCTWORK, OR EQUIPMENT.
18. INSTALL CONTROL DEVICES (SUCH AS SENSORS, SENSING WELLS, VALVES, DAMPERS, ETC.), FURNISHED BY CONTROLS SUPPLIER, IN DUCT AND PIPING SYSTEMS.
19. PROVIDE SEISMIC BRACING FOR PIPING, DUCTWORK, AND EQUIPMENT AS REQUIRED BY KENTUCKY BUILDING CODE. SEE SPECIFICATIONS.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STAGGS & FISHER CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive Lexington, KY 40517 859-271-3246


MECHANICAL LEGEND AND GENERAL NOTES
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG #

Project No: 2148
Drawn By: JS
Rev'd By: JS

SHEET RELEASE

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DESIGN DEVELOPMENT

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MECHANICAL LEGEND AND GENERAL NOTES
DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
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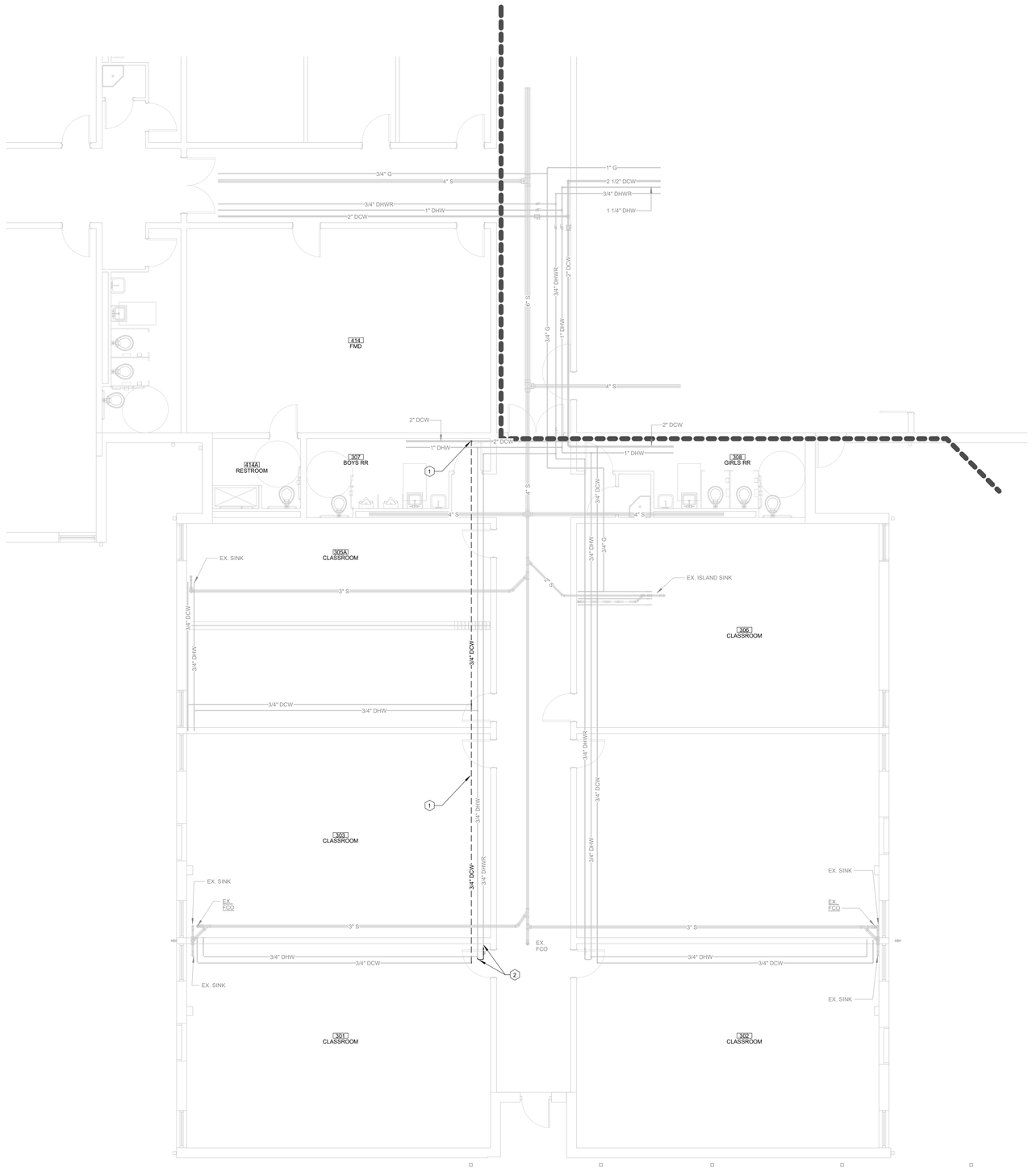



**CODED NOTES:**

1 REMOVE EXISTING 3/4" DCW BACK TO 2" DCW MAIN AS INDICATED.CUT AND CAP FOR NEW WORK.

2 REMOVE EX. 3/4" DHW, 3/4" DHWR AND BALANCING VALVE ASSEMBLY AS INDICATED. CUT AND CAP FOR NEW WORK.

## UNDERFLOOR PLUMBING DEMOLITION PLAN - AREA A

SCALE: 3/16" = 1'-0"

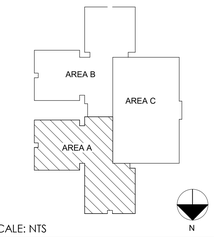
**NOTE:**

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

### ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
| 105B | CLASSROOM |
| 106 | CLASSROOM |
| 107 | BOY'S RR |
| 108 | GIRL'S RR |
| 109 | CUSTODIAL |
| 110 | CORRIDOR |
| 111 | CORRIDOR |
| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
| 208 | GIRL'S RR |
| 209 | CUSTODIAL |
| 301 | CLASSROOM |
| 302 | CLASSROOM |
| 303 | CLASSROOM |
| 304 | CLASSROOM |
| 305A | CLASSROOM |
| 305B | CLASSROOM |
| 306 | CLASSROOM |
| 307 | BOYS RR |
| 308 | GIRLS RR |
| 309 | CUST. |
| 401 | CLASSROOM |
| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
| 407 | ADMIN RECEPTION |
| 408 | FIRST AID |
| 408A | RR |
| 409 | FRC |
| 410 | OFFICE |
| 411 | SBDM OFFICE |
| 412 | WORKROOM |
| 413 | SBDM CONFERENCE |
| 414 | FMD |
| 414A | RESTROOM |
| 500 | MEDIA CENTER |
| 500A | OFFICE |
| 500B | WORKROOM |
| 500C | STOR. |
| 501 | CAFETERIA |
| 502 | KITCHEN |
| 503 | Room |
| 504 | LOCKERS |
| 504A | LAUNDRY |
| 505 | OFFICE |
| 506 | RECEIVING |
| 507 | DRY FOOD |
| 508 | GYMNASIUM |
| 509 | OFFICE |
| 510 | STOR. |
| 510A | RR |
| 511 | TOILET |
| 512 | MECH. |

## KEY PLAN




SCALE: NTS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PLUMBING DEMOLITION PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG #

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|---|---|
| Project No: | 2148 |
| Drawn By: | DH / VB |
| Rev'd By: | JS |

SHEET RELEASE

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DESIGN DEVELOPMENT

# PD1.1

PLUMBING DEMOLITION PLAN - AREA A

DATE ISSUED:

FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
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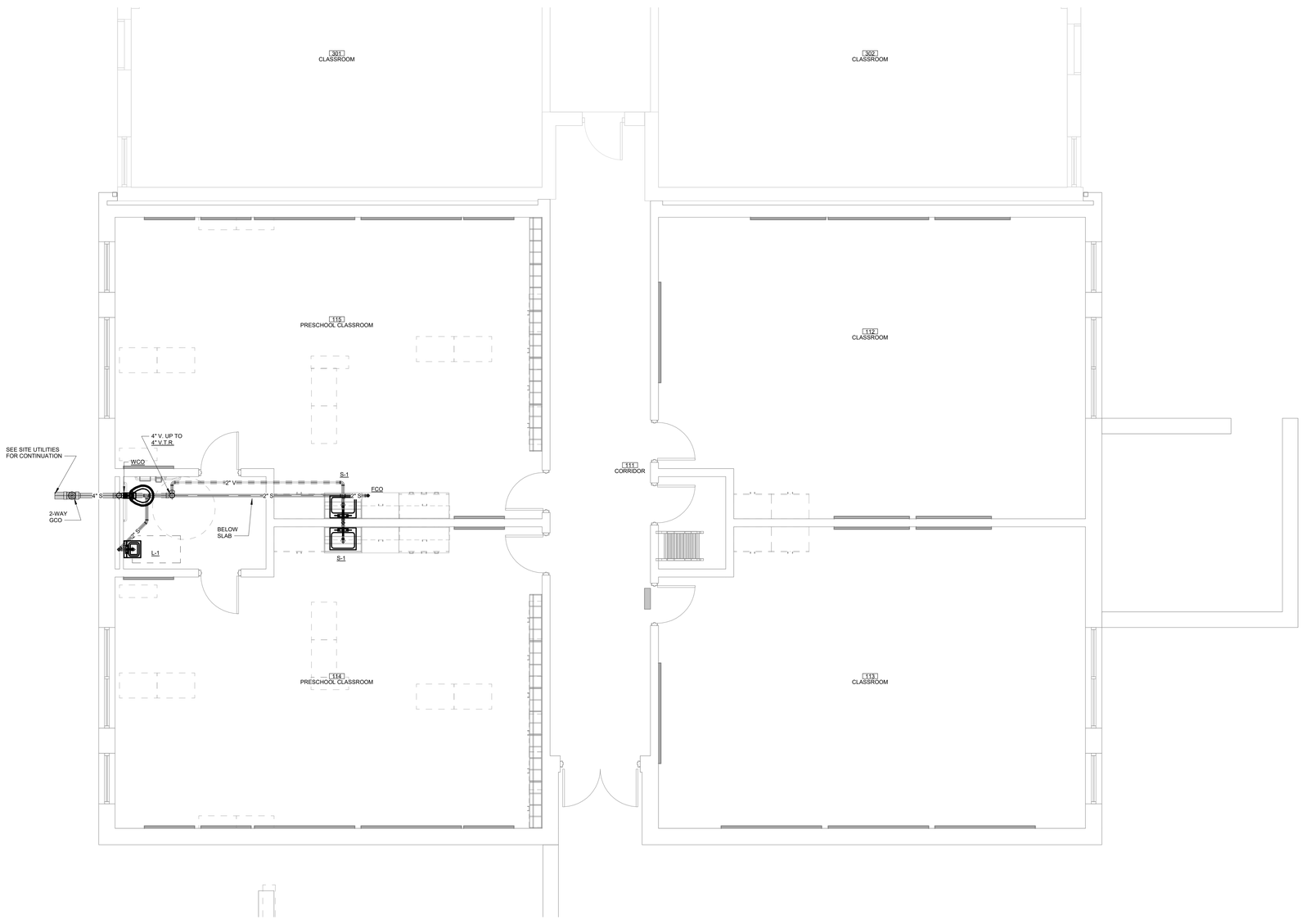
**CODED NOTES:**




## SANITARY WASTE & VENT PLUMBING PLAN - AREA A

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

**NOTE:**

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### ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
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| 113 | CLASSROOM |
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| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
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| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
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| 202 | CLASSROOM |
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| 510A | RR |
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101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
1000 Lyon Street Suite
Lexington KY 40501
859.277.0266


SANITARY WASTE & VENT PLUMBING PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG #

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | DH / VB |
| Rev'd By: | JS |

SHEET RELEASE

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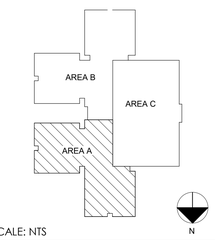
KEY PLAN




SCALE: NTS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DESIGN DEVELOPMENT

P1.1

SANITARY WASTE & VENT PLUMBING PLAN - AREA A
DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
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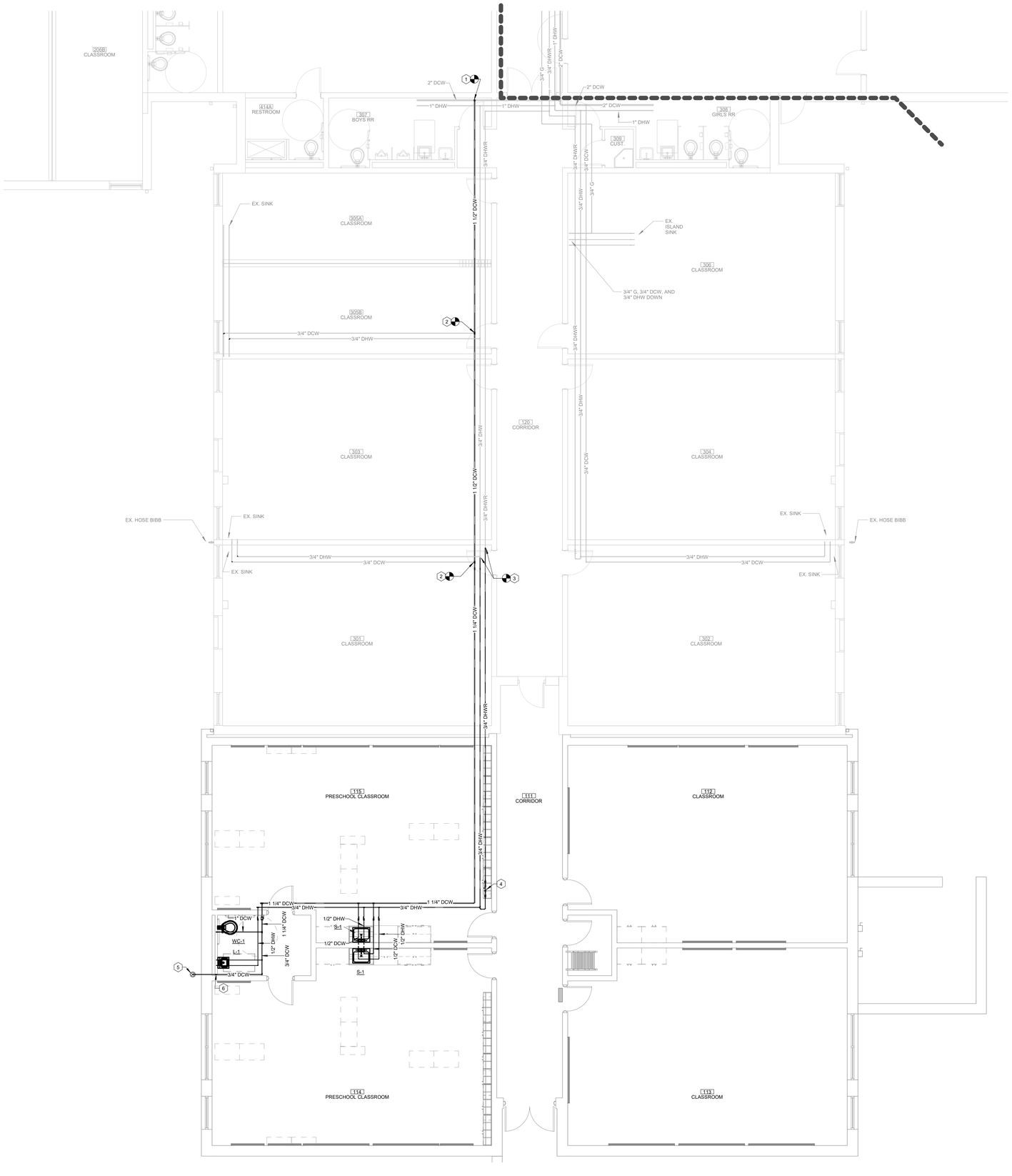


## DOMESTIC WATER PLUMBING PLAN - AREA A

SCALE: 3/16" = 1'-0"

**CODED NOTES:**

1. CONNECT TO EXISTING 2" DCW AS REQUIRED.
2. RECONNECT EXISTING 3/4" DCW TO NEW 2" DCW AS REQUIRED.
3. CONNECT TO EXISTING 3/4" DHW AND 3/4" DHWR AS REQUIRED.
4. DOMESTIC RECIRCULATING HOT WATER BALANCING ASSEMBLY. SEE DETAIL ON SHEET P-4.0
5. PROVIDE 3/4" DCW, VALVE AND VALVE BOX. CAP FOR FUTURE CONNECTION, SEE DETAIL ON SHEET P4.0.
6. 3/4" DCW DOWN TO BELOW GRADE.

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| 164 | CORRIDOR |
| 170 | CORRIDOR |
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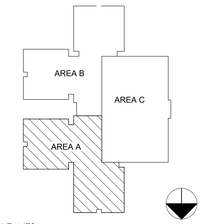
KEY PLAN




SCALE: NTS

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NOT FOR CONSTRUCTION


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DOMESTIC WATER PLUMBING PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG #

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | DH / VB |
| Rev'd By: | JS |

SHEET RELEASE

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DESIGN DEVELOPMENT

P2.1

DOMESTIC WATER PLUMBING PLAN - AREA A

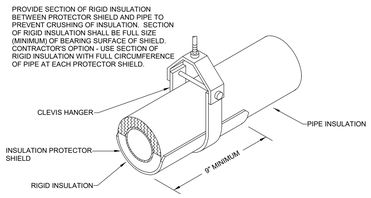
DATE ISSUED:

FEBRUARY 22, 2022

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |

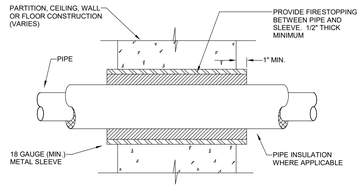
## FIXTURE SCHEDULE AND ROUGHING-IN REQUIREMENTS

| FIXTURE NUMBER | FIXTURE | MFR. | MODEL NO. | FLUSH VALVE, FAUCET | ACCESSORIES | MOUNTING | WALL HUNG, FLOOR MOUNTED, COUNTERTOP | MOUNTING HEIGHT (SEE REMARKS) | HOT | COLD | WASTE (MIN.) | VENT (MIN.) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WC-1 | WATER CLOSET | KOHLER | WELLCOMME ULTRA K-96053-B, VITREOUS CHINA | SLOAN REGAL 111-1.28 GPF, MANUAL | SEAT STANDARD WHITE | STANDARD | FLOOR MOUNT | --- | --- | 1" | 4" | 2" | |
| L-1 | LAVATORY | KOHLER | KINGSTON K-2005, VITREOUS CHINA | ZURN SIERRA Z7440-XL, 1.5 GPM, SINGLE LEVER, MANUAL | GRID STRAINER, P-TRAP, STOPS & SUPPLIES | ADA | WALL HUNG | ---- | 1/2" | 1/2" | 1-1/4" P-TRAP | 1-1/2" | SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS. CONCEALED ARMS, AND WHITE TRUEBRO LAV GUARDS |
| S-1 | SINK | ELKAY | DRKAD282260RC, 6" DEEP, STAINLESS STEEL | ELKAY LKF413845RS SINGLE LEVER FAUCET, LK11441A BUBBLER | CUP STRAINER, P-TRAP, STOPS & SUPPLIES | ADA | COUNTER DROP-IN | --- | 1/2" | 1/2" | 1-1/2" P-TRAP | 1-1/2" | |




TYPICAL PIPE SUPPORT DETAIL WITH SHIELD

SCALE: NONE



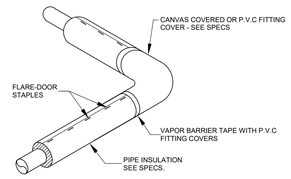

NOTES:

1. SPACE BETWEEN PIPE AND SLEEVE SHALL BE FREE OF ANY FOREIGN MATERIAL.
2. PIPE SHALL BE APPROXIMATELY CENTERED IN OPENING.

TYPICAL FIRESTOPPING DETAIL

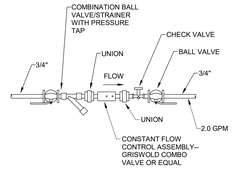
SCALE: NONE

FITTINGS -- ALL FITTINGS SHALL BE FINISHED WITH CANVAS CLOTH APPLIED OVER. CONTRACTOR HAS THE OPTION OF FINISHING FITTINGS WITH P.V.C. FIRE TESTED AND RATED FITTING COVERS. SEE SPECS.



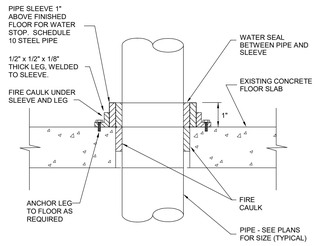

TYPICAL DETAIL OF INSULATION AT PIPE FITTING

SCALE: NONE




DOMESTIC RECIRULATING HOT WATER BALANCING ASSEMBLY

SCALE: NONE

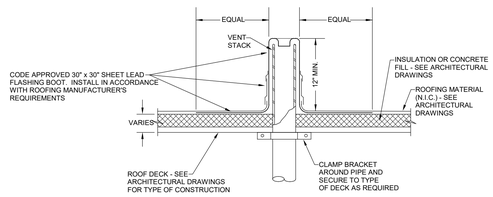



NOTES:

1. COORDINATE WITH FIRE STOPPING MANUFACTURER TO INSURE U.L. LISTED ASSEMBLY.
2. FIRE CAULK ALL AROUND UNDER PIPE SLEEVE AND LEGS.

SLEEVE DETAIL FOR PIPING PASSING THRU EXISTING CONCRETE FLOOR SLAB

SCALE: NONE




VENT-THRU-ROOF DETAIL

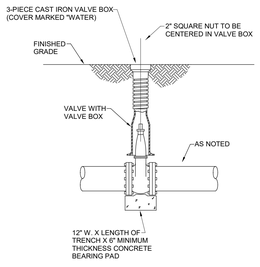
SCALE: NONE

NOTES:

ALL VALVES SHALL BE PROVIDED WITH VALVE BOXES . VALVE BOXES SHALL BE STANDARD, ADJUSTABLE, CAST IRON OR PVC EXTENSION TYPE, THREE PIECE, 5-1/4" SHAFT, SCREW TYPE AND OF SUCH LENGTH AS NECESSARY TO EXTEND FROM VALVE TO FINISHED GRADE.

VALVE BOX BASES SHALL CONFORM TO THE FOLLOWING:

| VALVE SIZE | BASE |
|---|---|
| 4" AND SMALLER | ROUND, 8" IN HEIGHT, 10-7/8" DIA AT BOTTOM |
| 6" AND 8" | ROUND, 11" IN HEIGHT, 14-3/8" DIA. AT BOTTOM |
| 10" AND LARGER | ROUND 11" IN HEIGHT, 15" x 11-1/8" DIA. AT BOTTOM |




TYPICAL VALVE WITH VALVE BOX DETAIL

SCALE: NONE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PLUMBING DETAILS & SCHEDULES

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

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DESIGN DEVELOPMENT

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PLUMBING DETAILS & SCHEDULES

DATE ISSUED:

FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
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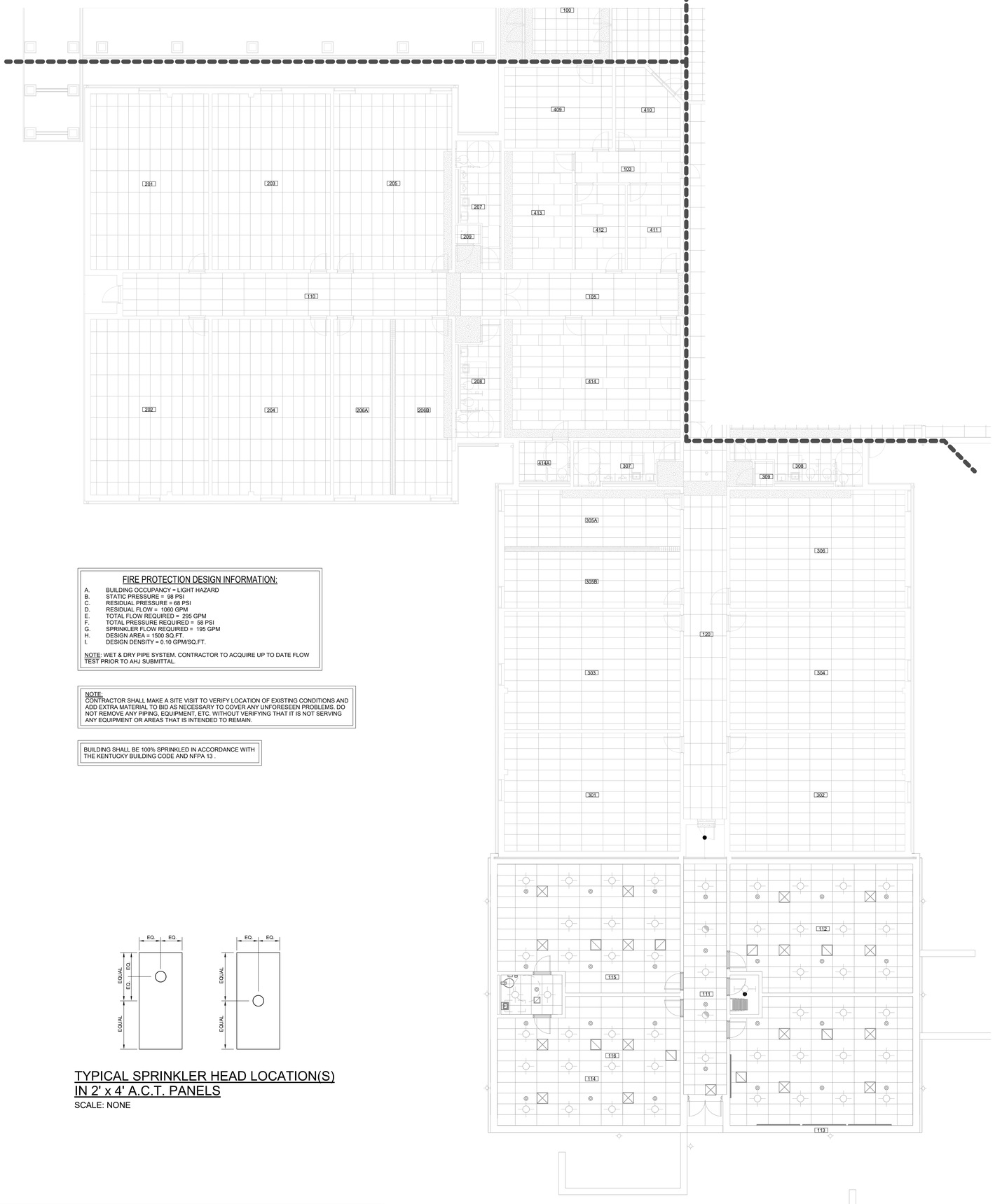


### FIRE PROTECTION DESIGN INFORMATION:

A. BUILDING OCCUPANCY = LIGHT HAZARD
B. STATIC PRESSURE = 98 PSI
C. RESIDUAL PRESSURE = 68 PSI
D. RESIDUAL FLOW = 1060 GPM
E. TOTAL FLOW REQUIRED = 295 GPM
F. TOTAL PRESSURE REQUIRED = 58 PSI
G. SPRINKLER FLOW REQUIRED = 195 GPM
H. DESIGN AREA = 1500 SQ.FT.
I. DESIGN DENSITY = 0.10 GPM/SQ.FT.

NOTE: WET & DRY PIPE SYSTEM. CONTRACTOR TO ACQUIRE UP TO DATE FLOW TEST PRIOR TO AHJ SUBMITTAL.

NOTE:
CONTRACTOR SHALL MAKE A SITE VISIT TO VERIFY LOCATION OF EXISTING CONDITIONS AND ADD EXTRA MATERIAL TO BID AS NECESSARY TO COVER ANY UNFORESEEN PROBLEMS. DO NOT REMOVE ANY PIPING, EQUIPMENT, ETC. WITHOUT VERIFYING THAT IT IS NOT SERVING ANY EQUIPMENT OR AREAS THAT IS INTENDED TO REMAIN.

BUILDING SHALL BE 100% SPRINKLED IN ACCORDANCE WITH THE KENTUCKY BUILDING CODE AND NFPA 13 .




## TYPICAL SPRINKLER HEAD LOCATION(S) IN 2' x 4' A.C.T. PANELS

SCALE: NONE

## FIRE PROTECTION PLAN - AREA A

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

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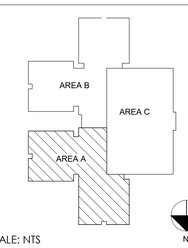
| 512 | MECH. |

## KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
2333 Alexandria Drive
Lexington, KY 40504
859.277.0266


# FIRE PROTECTION PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG #

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | RD |
| Rev'd By: | JS |

SHEET RELEASE

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FIRE PROTECTION PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
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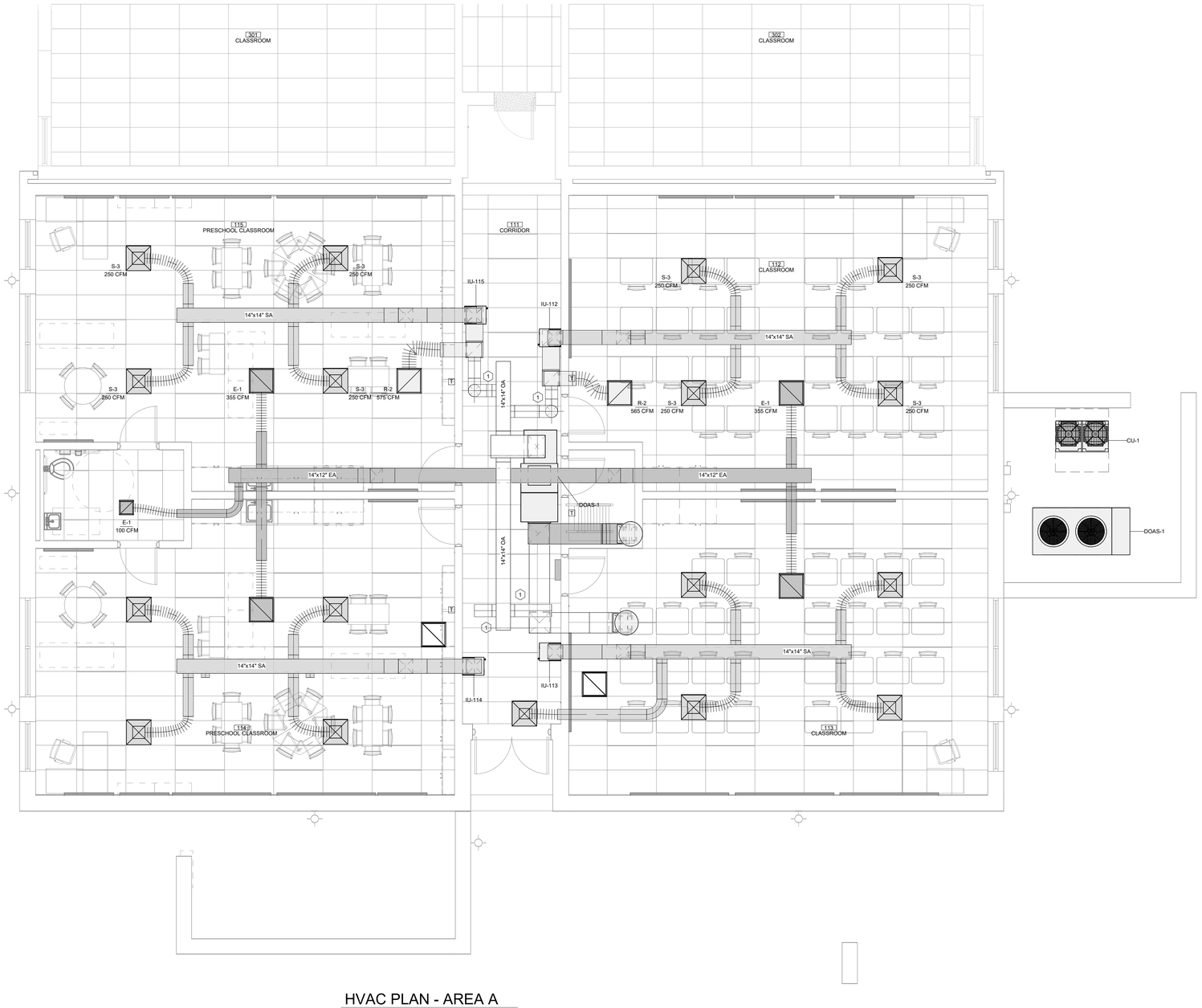



# HVAC PLAN - AREA A

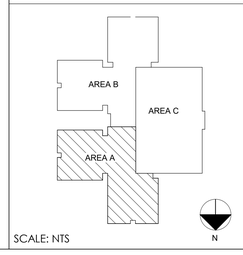
SCALE: 1/4" = 1'-0"

| ROOM SCHEDULE | |
|---|---|
| ROOM NUMBER | ROOM NAME |
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
| 105B | CLASSROOM |
| 106 | CLASSROOM |
| 107 | BOY'S RR |
| 108 | GIRL'S RR |
| 109 | CUSTODIAL |
| 110 | CORRIDOR |
| 111 | CORRIDOR |
| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
| 208 | GIRL'S RR |
| 209 | CUSTODIAL |
| 301 | CLASSROOM |
| 302 | CLASSROOM |
| 303 | CLASSROOM |
| 304 | CLASSROOM |
| 305A | CLASSROOM |
| 305B | CLASSROOM |
| 306 | CLASSROOM |
| 307 | BOYS RR |
| 308 | GIRLS RR |
| 309 | CUST. |
| 401 | CLASSROOM |
| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
| 407 | ADMIN RECEPTION |
| 408 | FIRST AID |
| 408A | RR |
| 409 | FRC |
| 410 | OFFICE |
| 411 | SBDM OFFICE |
| 412 | WORKROOM |
| 413 | SBDM CONFERENCE |
| 414 | FMD |
| 414A | RESTROOM |
| 500 | MEDIA CENTER |
| 500A | OFFICE |
| 500B | WORKROOM |
| 500C | STOR. |
| 501 | CAFETERIA |
| 502 | KITCHEN |
| 503 | Room |
| 504 | LOCKERS |
| 504A | LAUNDRY |
| 505 | OFFICE |
| 506 | RECEIVING |
| 507 | DRY FOOD |
| 508 | GYMNASIUM |
| 509 | OFFICE |
| 510 | STOR. |
| 510A | RR |
| 511 | TOILET |
| 512 | MECH. |

**CODED NOTES:**

1 12" OA CONNECTION TO HEAT PUMP RETURN DUCT. PROVIDE BALANCING DAMPER IN OA DUCT AND BALANCE TO 430 CFM.

## KEY PLAN




SCALE: NTS

**NOTE:**

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.


rosstarrant architects
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NOT FOR CONSTRUCTION


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2365 Harrodsburg Road Suite B325
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859.277.0266


HVAC PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG #

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|---|---|
| Project No: | 2148 |
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| Rev'd By: | JS |

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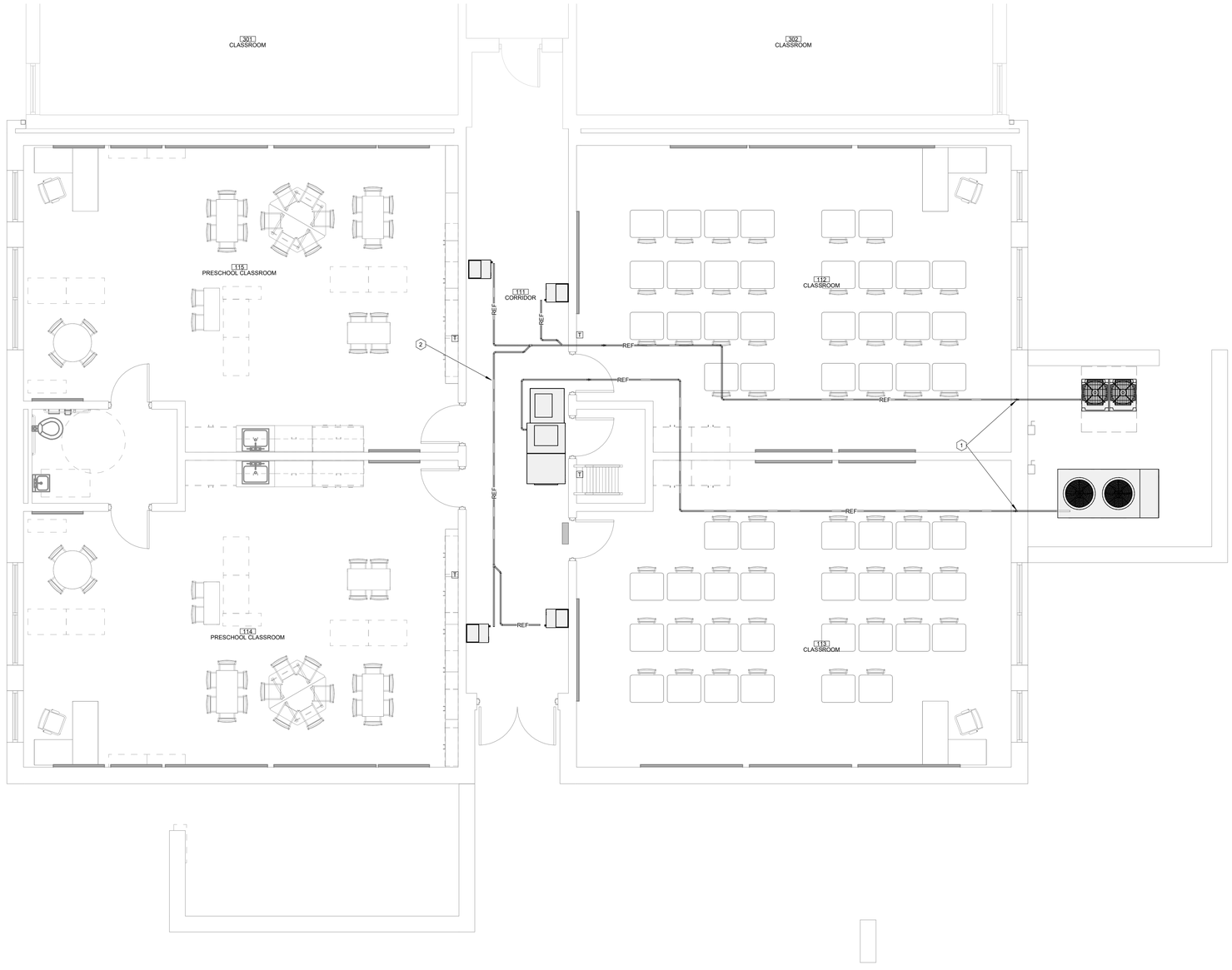
HVAC PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |




## HVAC PIPING PLAN - AREA A

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

**NOTE:**

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### ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
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| 104 | CORRIDOR |
| 105 | CORRIDOR |
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| 105B | CLASSROOM |
| 106 | CLASSROOM |
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| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
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| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
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| 405 | RECORDS |
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| 510A | RR |
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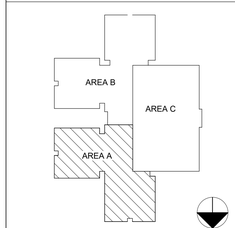
## KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
2365 harrodsburg road, suite b-200
lexington, kentucky 40504
859.277.0266


HVAC PIPING PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG #

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DESIGN DEVELOPMENT

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HVAC PIPING PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |

## GRILLES, REGISTERS AND DIFFUSERS

| SYMBOL | MANUFACTURER | MODEL | PANEL SIZE | DIFFUSER SIZE | DIFFUSER INLET | DESIGN CFM | P.D. (IN. W.G.) | THROW (FT) | DIRECTION OF THROW | NC | MOUNTING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-2 | PRICE | ASPD | 24"x24" | 24"x24" | 6" RD | 200 | 0.07 | 3-4-7 | 4-WAY | 23 | SEE PLANS | |
| S-3 | PRICE | ASPD | 24"x24" | 24"x24" | 8" RD | 300 | 0.07 | 4-6-9 | 4-WAY | 22 | SEE PLANS | |
| E-1 | PRICE | 630 | <varies> | <varies> | <varies> | <varies> | <varies> | | --- | <varies> | <varies> | |
| R-2 | PRICE | 630 | 24"x24" | 22"x22" | 22"x22" | 1500 | 0.07 | | --- | 21 | SEE PLANS | |

## DEDICATED OUTDOOR AIR SYSTEMS

| SYMBOL | MANUFACTURER | MODEL | SUPPLY FAN CFM | SUPPLY FAN ESP (IN. WC.) | EXHAUST FAN CFM | EXHAUST FAN ESP (IN. WC.) | TOTAL ENERGY WHEEL COOLING ENERGY RECOVERED (MBH) | TOTAL ENERGY WHEEL HEATING ENERGY RECOVERED (MBH) | COOLING CAPACITY *3 TOTAL CAP. (MBH) | COOLING CAPACITY *3 SENSIBLE CAP. (MBH) | HEATING CAPACITY *4 TOTAL CAP. (MBH) | DIMENSIONS (LW/H) | INSIDE UNIT ELECTRICAL VOLT/PH | INSIDE UNIT ELECTRICAL MCA | INSIDE UNIT ELECTRICAL MOP | OUTSIDE UNIT ELECTRICAL VOLT/PH | OUTSIDE UNIT ELECTRICAL MCA | OUTSIDE UNIT ELECTRICAL MOP | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOAS-1 | DAIKIN | | 1720 | 0.5 | 1520 | 0.5 | 42.86 | 113.57 | 105 | 62 | 117.6 | | 460 / 3 | 40 | 40 | 460/3 | 21 | 25 | |

REMARKS:

1. SPLIT SYSTEM DEDICATED OUTDOOR AIR SYSTEM WITH SUPPLY FAN, EXHAUST FAN, ENERGY RECOVERY WHEEL, DX COOLING, HEAT PUMP HEATING, HOT GAS REHEAT, AND OUTDOOR CONDENSING UNIT SIZED TO PROVIDE 72 DEG F. 50% RH AIR.
2. COOLING CAPACITY BASED ON 95 DEG F DB AND 78 DEG F WB AMBIENT AND ENTERING AIR.
3. HEATING CAPACITY BASED ON 0 DEG DB AMBIENT AND ENTERING AIR TEMPERATURE.
4. FILTERS UPSTREAM OF ENERGY WHEEL IN BOTH THE SUPPLY AND EXHAUST AIR STREAM. 2" THICK, 30% EFFICIENT.
5. PROVIDE UNIT MOUNTED CONTROLLER WITH BACNET IP INTEGRATION CAPABILITIES. SEE SPECIFICATIONS.

## ZONE HEAT RECOVERY DEVICES

| SYMBOL | MANUFACTURER | MODEL | CONDENSING UNIT SERVED | NO. OF PORTS | DIMENSIONS (WxHxD) | WEIGHT (LBS) | VOLT / PH | MCA / MOP | REMARKS |
|---|---|---|---|---|---|---|---|---|---|

## VRF CONDENSING UNITS

| SYMBOL | MANUFACTURER | MODEL | NOMINAL TONNAGE | TYPE | CAPACITIES (MBH) COOLING | CAPACITIES (MBH) HEATING | FACTORY CHARGE (LBS.) | ADD'L REFRIGERANT (LBS.) | IEER (NON-DUCTED / DUCTED) | CONNECTION RATIO | ELECTRICAL VOLTAGE / PHASE | ELECTRICAL MCA / MOP | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CU-1 | DAIKIN | | | AIR-COOLED CONDENSING UNIT | | | | | | | | | |

REMARKS:

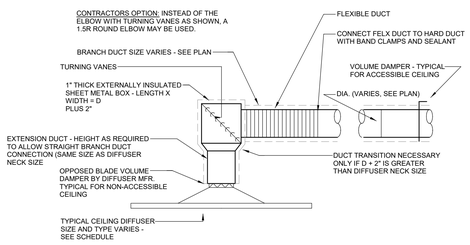
1. PROVIDE SYSTEM CONTROLLER WITH DISPLAY AND BACNET IP INTEGRATION CAPABILITIES. SEE SPECIFICATION.

## VRF INDOOR UNITS

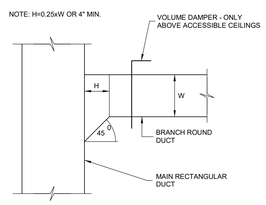
| SYMBOL | MANUFACTURER | MODEL | NOMINAL TONNAGE | TYPE | CAPACITIES (MBH) TOTAL COOLING | CAPACITIES (MBH) SENSIBLE COOLING | CAPACITIES (MBH) HEATING | AIRFLOW (CFM) | DIMENSIONS W | DIMENSIONS H | DIMENSIONS D | ELECTRICAL VOLTAGE / PHASE | ELECTRICAL MCA / MOP | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IU-112 | DAIKIN | | 2.5 | VRF VERTICAL AIR HANDLING UNIT | | | | | | | | | | |
| IU-113 | DAIKIN | | 3.0 | VRF VERTICAL AIR HANDLING UNIT | | | | | | | | | | |
| IU-114 | DAIKIN | | 2.5 | VRF VERTICAL AIR HANDLING UNIT | | | | | | | | | | |
| IU-115 | DAIKIN | | 2.5 | VRF VERTICAL AIR HANDLING UNIT | | | | | | | | | | |

REMARKS:

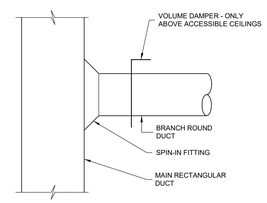
1. COOLING CAPACITY BASED ON 78 DEG F DB RETURN AIR. HEATING CAPACITY BASED ON 68 DEG F RETURN AIR.
2. MOUNT UNITS ON STANDS TO BRING RETURN AIR DUCT OFF THE BOTTOM. PROVIDE NEOPRENE PADS FOR VIBRATION ISOLATION.
3. MANUFACTURER STANDARD THERMOSTATS.
4. REFRIGERANT SIZES AND ROUTING IS SPECIFIC TO MANUFACTURER. LAYOUT ON DRAWINGS IS DIAGRAMATIC AND INTENDED TO SHOW SYSTEM ZONING.



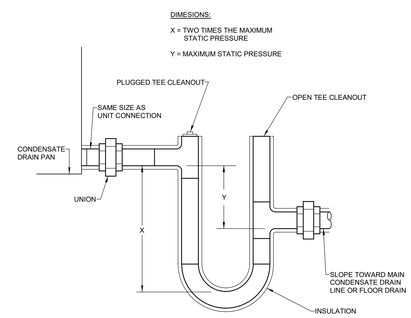

CONNECTION TO S.A. CEILING DIFFUSER
NO SCALE



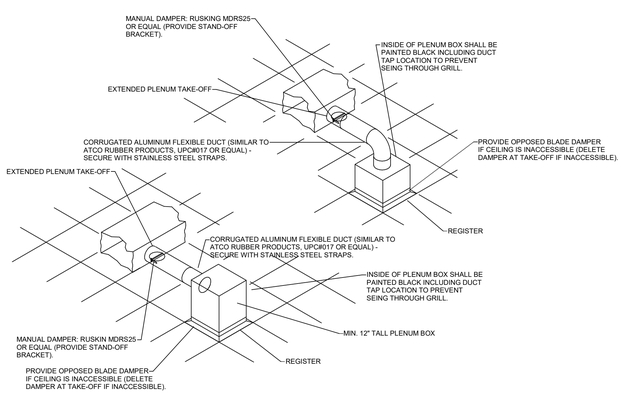

TYPICAL LOW PRESSURE RECTANGULAR DUCT TAKE-OFF
NO SCALE




TYPICAL LOW PRESSURE ROUND DUCT TAKE-OFF
NO SCALE




CONDENSATE DRAIN TRAP DETAIL
NO SCALE




CONNECTION TO EXHAUST/RETURN AIR INLET
NO SCALE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101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


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HVAC SCHEDULES

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

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HVAC SCHEDULES

DATE ISSUED:
FEBRUARY 22, 2022

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |

# ELECTRICAL LEGEND

## EQUIPMENT, CONDUITS, ETC.

| | |
|---|---|
| | CONDUIT BELOW FLOOR |
| | CONDUIT ABOVE FLOOR |
| | ENTRANCE POINT OF CONDUIT THROUGH FLOOR |
| | WIREWAY OR CABLE TRAY |
| | WIRE MOLD (FOR POWER AND/OR DATA) |
| | PANELBOARD OR TERMINAL CABINET (REFER TO PLANS AND RISER FOR SIZE) |
| | SECTIONAL SWITCH GEAR (REFER TO PLANS AND RISER FOR NUMBER OF SECTIONS AND LAYOUT) |
| | TRANSFORMER (REFER TO PLANS AND RISER FOR SIZE) |
| J | JUNCTION BOX |
| | ENCLOSED CIRCUIT BREAKER |
| | DISCONNECT SWITCH |
| | FUSED DISCONNECT |
| | COMBINATION MAGNETIC STARTER AND FUSED SWITCH |
| | MOTOR |
| HOT, GROUND, NEUTRAL | WIRE / CONDUIT |
| 12 | BOTTOM OF DEVICE (IN INCHES A.F.F.) |
| 1 | SEE NOTE 1 THIS SHEET |
| HW ?? | HEADWALL - FOR SERVICES, SEE DETAILS |
| | GROUND |

## LIGHTING & LIGHTING DEVICES

| | |
|---|---|
| | LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE) |
| | EMERGENCY LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE) |
| | WALL MOUNTED LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE) |
| | EMERGENCY WALL MOUNTED LIGHTING FIXTURES (REFER TO PLANS FOR TYPES OF FIXTURES THE LF-# DESIGNATES THE TYPE OF FIXTURE) |
| | TRACK LIGHTING |
| | EMERGENCY TRACK LIGHTING |
| W | WALL-MOUNTED WARNING LIGHT |
| | EXIT LIGHT |
| | EXIT LIGHT WITH DIRECTION |
| | EXIT LIGHT (WALL MOUNTED) |
| | COMBINATION EMERGENCY BATTERY PACK AND EXIT SIGN |
| | EMERGENCY BATTERY PACK |
| LR | LIGHTING CONTROL RELAY |
| ETR | EMERGENCY TRANSFER RELAY |
| OS | OCCUPANCY / VACANCY SENSOR |
| OS | WALL MOUNTED OCCUPANCY / VACANCY SENSOR |
| PS | PHOTO SENSOR |
| LCP | LIGHTING CONTROL PANEL |
| 1 LF-# a NL | LF-# = LIGHT FIXTURE TYPE TAG (REFER TO LIGHT FIXTURE SCHEDULE)<br>1 = CIRCUIT NUMBER<br>a = SWITCHING/ZONING DESIGNATION (IF APPLICABLE)<br>NL = FIXTURE IS A NIGHT LIGHT (IF APPLICABLE) |

## WALL SWITCHES (BOTTOM 44" A.F.F.)
(EXCEPT AS NOTED OTHERWISE)

| | |
|---|---|
| $ | SINGLE POLE |
| $\$_{2}$ | DOUBLE POLE |
| $\$_{3}$ | THREE-WAY |
| $\$_{4}$ | FOUR-WAY |
| $\$_{LV}$ | LOW-VOLTAGE, MOMENTARY |
| $\$_{OS}$ | OCCUPANCY/VACANCY SENSOR SWITCH |
| $\$_{D}$ | DIMMER |
| $\$_{P}$ | PILOT LIGHT |
| $\$_{OL}$ | THERMAL OVERLOAD |
| $\$^{P}_{OL}$ | THERMAL OVERLOAD WITH PILOT LIGHT |
| $\$_{K}$ | KEY OPERATED SWITCH |
| CS | LIGHTING CONTROL STATION |
| MS | MASTER LIGHTING CONTROL STATION |

## RECEPTACLES (BOTTOM 16" A.F.F.)
(EXCEPT AS NOTED OTHERWISE)

| | |
|---|---|
| | DUPLEX CONVENIENCE OUTLET |
| | QUADRAPLEX CONVENIENCE OUTLET |
| | BOTTOM 2" ABOVE BACKSPLASH/COUNTER DUPLEX OUTLET. COORDINATE WITH ARCHITECTURAL DRAWINGS. |
| | GROUND FAULT INTERRUPTING OUTLET |
| WP | WEATHERPROOF OUTLET |
| SW | SWITCHED/CONTROLLED DUPLEX OUTLET |
| E | DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT |
| CM | CEILING MOUNTED RECEPTACLE. |
| USB | USB DUPLEX RECEPTACLE. |
| | SIMPLEX WALL OUTLET (RATING AS NOTED) |
| | WALL OUTLET (240V, 1-PHASE) (RATING AS NOTED) |
| | WALL OUTLET (240V, 3-PHASE) (RATING AS NOTED) |
| | FLOOR BOX / POKE-THRU FOR POWER AND/OR DATA |
| H | HOOD CONNECTION |
| | EQUIPMENT CONNECTION |
| R | CONTROL RELAY |

## COMMUNICATIONS

| | |
|---|---|
| | TELECOMMUNICATIONS RACK |
| | DATA OUTLET (DATA & COMMUNICATIONS) (MOUNTED AT 16" TO THE BOTTOM AFF) (UNLESS OTHER WISE NOTED) |
| xD xC xV | COMMUNICATION OUTLET NOTATION:<br>xD NUMBER OF DATA PORTS<br>xC NUMBER OF CATV PORTS<br>xV NUMBER OF VOICE PORTS |
| | GROUNDING BAR |

## FIRE ALARM

| | |
|---|---|
| F | FIRE ALARM BREAKGLASS STATION (BOTTOM 44" A.F.F.) |
| F | FIRE ALARM SPKR/FLASHING LIGHT (80" TO BOTTOM, WALL MNT) |
| F | FIRE ALARM FLASHING LIGHT (80" TO BOTTOM, WALL MOUNTED) |
| | FIRE ALARM SPEAKER (80" TO BOTTOM, WALL MOUNTED) |
| F | FIRE ALARM SPEAKER /FLASHING LIGHT (CEILING MOUNTED) |
| F | FIRE ALARM SPEAKER (CEILING MOUNTED) |
| F | FIRE ALARM STROBE/FLASHING LIGHT (CEILING MOUNTED) |
| S | SINGLE STATION SMOKE DETECTOR (CEILING MOUNTED) |
| SD | ADDRESSABLE SMOKE DETECTOR (CEILING MOUNTED) |
| SD | DUCT TYPE SMOKE DETECTOR |
| HD | AUTOMATIC HEAT DETECTOR |
| FACP | FIRE ALARM CONTROL PANEL |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL |
| EDH | ELECTROMAGNETIC DOOR HOLDER |
| EDC | ELECTROMAGNETIC DOOR CLOSER |
| TS | TAMPER SWITCH |
| FS | FLOW SWITCH |
| RA | REMOTE TEST ACTIVATOR |

## SECURITY

| | |
|---|---|
| CR | CARD READER / PROXIMITY READER |
| P | DOOR PUSH PLATE |
| K | KEY PAD |
| | DOOR CONTACTS |
| | T.V./SECURITY CAMERA OUTLET |
| | T.V./SECURITY CAMERA OUTLET WALL MOUNTED |
| M | MOTION DETECTOR |
| S | SIREN |
| AS | AUDIO OR GLASS BREAK SENSOR |

## SOUND AND INTERCOM

| | |
|---|---|
| | CEILING MOUNTED SPEAKER |
| | WALL MOUNTED SPEAKER |
| H | WALL MOUNTED HORN |
| A | ALARM TYPE SPEAKER |
| V | VOLUME CONTROL |
| $I_M$ | MASTER INTERCOM STATION |
| I | INTERCOM STATION |
| $O_M$ | MICROPHONE OUTLET IN FLOOR (FLUSH TYPE) |
| M | MICROPHONE OUTLET IN WALL (BOTTOM 16" A.F.F.) |
| C | CALL IN SWITCH |

## ELECTRICAL ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ATCP | AUTOMATIC TEMPERATURE CONTROL PANEL |
| C | CONDUIT |
| FA | FIRE ALARM |
| GFI | GROUND FAULT INTERRUPTER |
| IG | ISOLATED GROUND |
| JB | JUNCTION BOX |
| TTC | TELEPHONE TERMINAL CABINET |
| W | WIRE |
| F | FLUSH |
| P | PEDESTAL |
| CKT | CIRCUIT |
| REC(S) | RECEPTACLE(S) |
| LTG | LIGHTING |
| NL | NIGHT LIGHT |
| AIC | AMPERE INTERRUPTING CAPACITY |
| UON | UNLESS OTHERWISE NOTED |
| WP | WEATHER PROOF |
| FACP | FIRE ALARM CONTROL PANEL |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL |
| LCP | LIGHTING CONTOL PANEL |

**NOTE:**

**THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THIS SET OF CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED THE ITEM SHALL BE FURNISHED AND INSTALLED.**

**ELECTRICAL DEMOLITION GENERAL NOTES:**

1. ALL ITEMS SHOWN AS DASHED TO BE DEMOLISHED, INCLUDING ALL CONDUIT, WIRE, JUNCTION BOXES, ETC. REMOVE WIRING COMPLETE BACK TO PANEL. EXISTING BREAKER IN PANEL TO REMAIN UNLESS OTHERWISE NOTED. EXISTING BOXES IN EXISTING BLOCK WALLS SHALL BE PROVIDED WITH A BLANK COVER PLATE. EXISTING CONDUIT IN BLOCK WALLS TO REMAIN AND CAPPED. CONDUIT ABOVE CEILING SHALL BE REMOVED COMPLETE BACK TO PANEL.
2. BEFORE START OF WORK, THE CONTRACTOR SHALL CHECK ALL EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT THAT IS NOTED OR REQUIRED TO BE REUSED TO SATISFY THEMSELF THAT THEY ARE OPERATING PROPERLY. SHOULD ANY OF THE ITEMS NOT BE OPERATING, THE CONTRACTOR SHALL REPORT SAME TO THE ARCHITECT AND AWAIT DIRECTIONS. CONTRACTORS NOT COMPLYING WITH THE ABOVE WILL BE RESPONSIBLE FOR PROVIDING OPERATIONAL ITEMS AT HIS EXPENSE.
3. IN EXISTING AREAS WHERE NEW WORK IS SHOWN, REMOVE ALL EXISTING EXPOSED CONDUITS, WIREMOLD, SURFACE AND FLUSH OUTLET BOXES, WIRING DEVICES, FIXTURES, PANELS, ETC., NOT REQUIRED FOR NEW ARRANGEMENT.
4. INSTALL ALL NEW WORK AS INDICATED. FLUSH OUTLET BOXES MAY BE REUSED IF AT PROPER HEIGHT, LOCATION AND IN GOOD CONDITION. EXISTING CONCEALED CONDUITS MAY BE REUSED IF IN GOOD CONDITION, CIRCUITRY SHOWN ON PLANS SHALL GOVERN. ALL OTHER MATERIALS REMOVED SHALL BE REMOVED FROM THE JOB SITE OR TURNED OVER TO THE OWNER.
5. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).
6. WHERE ANY EXISTING OUTLET (ELECTRIC, COMMUNICATION, ETC.) IS NOTED OR REQUIRED TO BE REMOVED, THE CONTRACTOR UNDER THIS DIVISION SHALL CONNECT CONDUIT, PULL IN NEW CONDUCTORS AND RECONNECT AS REQUIRED FOR FEED-THRU OF CIRCUITS TO ENSURE ALL CIRCUITS DOWNSTREAM FROM REMOVED OUTLETS WILL REMAIN OPERATIONAL.
7. IN GENERAL, REMOVE EXISTING WORK INDICATED. THE DRAWINGS SHOW EXISTING WORK TO THE EXTENT POSSIBLE. HOWEVER, ALL EXISTING WORK MAY NOT BE SHOWN ON THE DRAWINGS. REMOVE OR RELOCATE EXISTING MECHANICAL AND ELECTRICAL WORK THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. RELOCATE EXISTING WORK THAT MUST REMAIN IN SERVICE THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. TURN OVER TO OWNER REMOVED EXISTING EQUIPMENT AS INDICATED AND REMOVE OTHER REMOVED EXISTING WORK FROM PROJECT SITE.
8. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REPAIR ANY HOLES LEFT IN THE EXISTING BUILDING FLOORS, WALLS, OR CEILINGS DUE TO THE DEMOLITION OF THE EXISTING ELECTRICAL SYSTEM.
9. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EQUIPMENT TO BE REMOVED. EXISTING EXPOSED CIRCUITS NOT TO BE REUSED SHALL BE REMOVED. EXISTING CONCEALED CIRCUITS NOT TO BE REUSED SHALL BE ABANDONED AFTER CONDUCTORS ARE REMOVED. CONDUITS EXPOSED BY CONSTRUCTION SHALL BE REMOVED.
10. ALL ITEMS SHOWN AS HALFTONE/GRAY ARE EXISTING AND ARE TO REMAIN.
11. ALL EXISTING ELECTRICAL CONNECTIONS AND DEVICES NOT SPECIFICALLY INDICATED TO REMAIN AND NOT REQUIRED FOR THE NEW ARRANGEMENT SHALL BE REMOVED UNLESS OTHERWISE NOTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SURVEY THE SITE TO DETERMINE THE TOTAL SCOPE OF THE WORK.
12. IN RENOVATED AREAS OF EXISTING BUILDING, EXISTING CONDUIT IS SHOWN AS OBTAINED FROM ORIGINAL BUILDING DRAWINGS FOR BID PURPOSES ONLY. CONTRACTOR SHALL VERIFY EXACT ROUTING AND LOCATION FOR RECONNECTING CIRCUITS AS SHOWN OR REQUIRED TO WORK WITH NEW SYSTEM.

**ELECTRICAL GENERAL NOTES**

1. INSTALL PANELBOARDS WITH THE TOP AT 6-6" ABOVE FINISHED FLOOR.
2. PROVIDE SUPPORTS FOR ALL VERTICAL CONDUIT RUNS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. INSTALL SECONDARY UNDERGROUND CONDUCTORS A MINIMUM OF 36" DEEP TO TOP OF CONDUIT OR ENCASEMENT.
4. FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) 1" SPARE CONDUITS CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING. TURN OUT 4" FROM WALL AND CAP.
5. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
6. PROVIDE A COPY OF ALL COMPLETED PANEL SCHEDULES IN THE O & M MANUAL.
7. LIGHTS IN MECHANICAL SPACES SHALL BE LOCATED SO AS TO CLEAR PIPING, DUCTWORK, AND EQUIPMENT ON CEILING. FIELD VERIFY.
8. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
9. FLEXIBLE CONDUIT SHALL BE USED FOR FIXTURE WHIPS TO LIGHT FIXTURES. FLEXIBLE CONDUITS TO LIGHT FIXTURES SHALL NOT EXCEED 6'-0" AND SHALL BE A MINIMUM OF 1/2".
10. CHAIN FOR SUPPORTING LIGHT FIXTURES SHALL BE GALVANIZED STEEL WELL CHAIN WITH A MINIMUM DEAD WEIGHT CAPACITY OF 100 LBS.
11. RECESSED LIGHTING FIXTURE WITH IN A GRID TYPE CEILING TO BE SUPPORTED INDEPENDENTLY FROM THE GRID. SUPPORT FIXTURE FROM STRUCTURE ABOVE WITH 12 GUAGE WIRE ONE ON EACH CORNER.
12. WALL MOUNTED OCCUPANCY/VACANCY SENSORS SHALL BE MOUNTED AND INSTALLED IMMEDIATELY BELOW THE CEILING AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR BEST COVERAGE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS.
13. CONTRACTOR SHALL CHECK ALL DOOR SWINGS AND SHALL BE RESPONSIBLE FOR INSTALLING ALL ROOM LIGHT SWITCHES/CONTROL STATIONS ASSOCIATED WITH DOORS ON THE STRIKE SIDE OF THE DOORS REGARDLESS OF THE INDICATION ON THE ELECTRICAL DRAWINGS. SWITCHES NOT COMPLYING SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
14. ALL CONDUIT SHALL BE HOMERUN TO PANELBOARD AS INDICATED ON THE DRAWINGS. COMBINING OF CIRCUITS IN HOMERUNS WILL NOT BE ACCEPTABLE. ANY DEVIATIONS IN SUCH WORK WILL NOT BE APPROVED EXCEPT AS REQUIRED TO MEET THE NATIONAL ELECTRICAL CODE OR BY PERMISSION OF THE ENGINEER.
15. ALL CONDUIT SHALL BE CONCEALED IN EXISTING AND NEW WALLS AND CEILINGS EXCEPT MECHANICAL ROOMS. REFER TO SPECIFICATIONS.
16. ELECTRICAL CONTRACTOR SHALL LOCATE ALL ELECTRICAL EQUIPMENT AS REQUIRED TO INSURE MINIMUM CLEARANCES ARE PROVIDED IN ACCORDANCE WITH THE N.E.C.
17. CONCERNING ALL RISER DIAGRAMS: AN ATTEMPT HAS BEEN MADE TO SHOW ALL DEVICES ON RISER DIAGRAM. ANY DEVICES SHOWN ON FLOOR PLANS AND NOT SHOWN ON RISER DIAGRAMS SHALL BE CONNECTED TO SYSTEM, AS REQUIRED.
18. ALL SCHEMATICS ARE FOR BID PURPOSES ONLY. SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM THE MANUFACTURER.
19. ALL DEVICES SHALL BE LOCATED ON CLEAR WALL SPACES, CLEAR OF ALL SHELVING, CHALKBOARDS, TACKBOARDS, CASEWORK, ETC. OUTLETS NOT COMPLYING WITH THE ABOVE SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
20. ROUGH-IN FOR ELECTRIC DRINKING FOUNTAINS (WATER COOLERS) AND BOTTLE FILLERS SHALL BE PERFORMED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
21. ROUGH-IN FOR EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE HEIGHT OF ALL DEVICES AT ALL CASEWORK LOCATIONS TO AVOID CONFLICTS. ALL OUTLETS SHALL BE ROUGHED-IN IN ACCORDANCE WITH ARCHITECTURAL CASEWORK ELEVATIONS. EXACT LOCATION OF ALL OUTLETS SHALL BE AS DIRECTED BY THE OWNER.
23. COORDINATE EXACT LOCATION OF ALL DEVICES IN THE CEILING WITH THE ARCHITECTURAL, HVAC, LIGHTING, AND FIRE PROTECTION REFLECTED CEILING PLANS.
24. THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS TO GROUND BUS IN PANELBOARDS AND IN ALL CIRCUITS TO EQUIPMENT AND RECEPTACLES. SEE SPECIFICATIONS.
25. ALL EXTERIOR UNDERGROUND CIRCUITS SHALL BE INSTALLED WITH TOP OF CONDUIT OR CONCRETE ENCASEMENT A MINIMUM OF 24" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
26. LIQUIDTITE FLEXIBLE METAL CONDUIT (LFMC) SHALL BE USED FOR FIXTURE WHIPS TO MOTORS. FLEXIBLE CONDUIT TO MOTORS SHALL BE A MINIMUM OF 3/4" AND SHALL NOT EXCEED 24" IN LENGTH.
27. ALL ELECTRICAL OUTLETS WITHIN 6'-0" OF A WATER SOURCE SHALL BE OF THE GFI PROTECTED.
28. FIRE ALARM SYSTEM LAYOUT IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER. DEVICE QUANTITY AND LOCATION SHALL PROVIDE COVERAGE IN ALL AREAS PER NFPA 72. PROVIDE DEVICES AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT.
29. PROVIDE 5' EXCESS CABLE COILED ABOVE THE CEILING FOR EACH DATA DROP.
30. LABEL CABLES BOTH AT THE RACK AND AT THE INDIVIDUAL OUTLET.
31. INSTALL STEEL SLEEVES BETWEEN STACKED TELECOMMUNICATIONS ROOMS. SLEEVES SHALL EXTEND 4" AFF AND 4" BELOW THE DECK. A MINIMUM OF TWO (2) SLEEVES ON THREE (3) WALLS IS REQUIRED. ALL SLEEVES MUST BE FIRE CAULKED AND SEALED, INITIAL FIRE CAULKING IS THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING THE SLEEVES. INSTALL GROUND BUSHINGS ON ALL SLEEVES AND PROPERLY GROUND TO THE GROUNDING BAR. TELECOMMUNICATIONS ROOMS THAT ARE NOT STACKED WILL REQUIRE THE INSTALLATION OF SIX (6) RISER CONDUITS (4 INCH MINIMUM DIAMETER) WITH PULL STRINGS AND APPROPRIATE JUNCTION PULL BOXES CONNECTING ALL TELECOMMUNICATIONS ROOMS.
32. FIRE TREATED PLYWOOD, 3/4 INCH THICK, MUST BE MECHANICALLY FASTENED TO ALL WALLS OF EACH TELECOMMUNICATIONS ROOM. THE FIRE TREATED PLYWOOD WILL BEGIN AT 4" AFF AND END AT 8' 4" AFF. THE ROOM WALLS WILL BE FINISHED WITH DRYWALL (COMPLETELY TAPED, SANDED, AND PAINTED) OR CONCRETE BLOCK (PAINTED) PRIOR TO MOUNTING THE PLYWOOD.
33. CABLE TRAY WILL LOOP THE ENTIRE PERIMETER INSIDE A TELECOMMUNICATIONS ROOM AT 8' AFF. MAINTAIN A 4" CLEARANCE FROM EACH WALL. SUPPORT WITH TRAPEZE MADE UP OF ALL THREAD AND UNISTRUT. UNIVERSAL 12" CABLE TRAY WILL BE INSTALLED AT THE TOP OF THE COMMUNICATIONS RACKS SPANNING THE WIDTH OF THE ROOM. RADIUS DROP OUTS WILL BE INSTALLED ON ALL CABLE TRAYS WHERE CABLES EXIT THE TRAY TO A LOWER ELEVATION.
34. ALL TELECOMMUNICATIONS ROOMS SHALL HAVE A GROUNDING BAR, WHICH MEASURES 12" LONG BY 4" WIDE BY ¼" THICK WITH PRE-DRILLED ¼" HOLES. THE GROUND BAR SHALL BE CONNECTED TO THE MAIN BUILDING GROUND USING # 2 OR GREATER AWG COPPER WIRE WITH A MAXIMUM RESISTANCE OF 0.5 OHMS OR LESS. NEC REQUIREMENTS SHALL BE FOLLOWED.
35. ALL CABLE TRAY WITHIN THE TELECOMMUNICATIONS ROOM SHALL BE GROUNDED TO THE MAIN BUILDING GROUNDING SYSTEM WITH A WIRE NOT SMALLER THAN #2 AWG COPPER. GROUND WIRE AND CLAMPS WILL BE INSTALLED ON THE EXTERIOR OF THE CABLE TRAY.
36. NO MORE THAN AN EQUIVALENT OF 270 DEGREES OF BEND, INCLUDING OFFSETS, IS ALLOWED IN A CONDUIT RUN BETWEEN JUNCTION BOXES OR PULL BOXES.
37. ABSOLUTELY NO "LB'S" ARE ALLOWED IN ANY COMMUNICATIONS CONDUIT INSTALLATION.
38. CONDUIT ENDS AT A CABLE TRAY WILL HAVE PLASTIC BUSHINGS AND BE WIRE BONDED TO THE TRAY.
39. CONDUIT THAT TERMINATES IN THE TELECOMMUNICATIONS ROOM MUST HAVE PLASTIC BUSHINGS AND BE WIRE BONDED TO THE GROUND BAR LOCATED IN THE ROOM.
40. ALL COMMUNICATIONS OUTLETS SHALL BE FED WITH CONDUIT AND PULL STRING, WITH AN ABSOLUTE MINIMUM NUMBER OF BENDS FROM THE OUTLET TO THE CABLE TRAY, OR HOMERUN DIRECTLY TO THE TELECOMMUNICATIONS ROOM. PULL BOXES MUST BE INSTALLED AFTER EVERY 270 DEGREES OF BEND (INCLUDING OFFSETS) OR 100 FEET OF THE CONDUIT RUN.
41. PREPACKAGED INTUMESCENT MATERIALS ARE THE PREFERRED MATERIAL FOR FIREPROOFING FOR TELECOMMUNICATIONS. DO NOT USE CONCRETE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUIT. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED.


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3264 Loch Ness Drive Lexington, KY 40517 859-271-3246


ELECTRICAL LEGEND AND GENERAL NOTES

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG # 22-207

Project No: 2148
Drawn By: RG
Rev'd By: WT

| SHEET RELEASE | | |
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DESIGN DEVELOPMENT

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ELECTRICAL LEGEND AND GENERAL NOTES
DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
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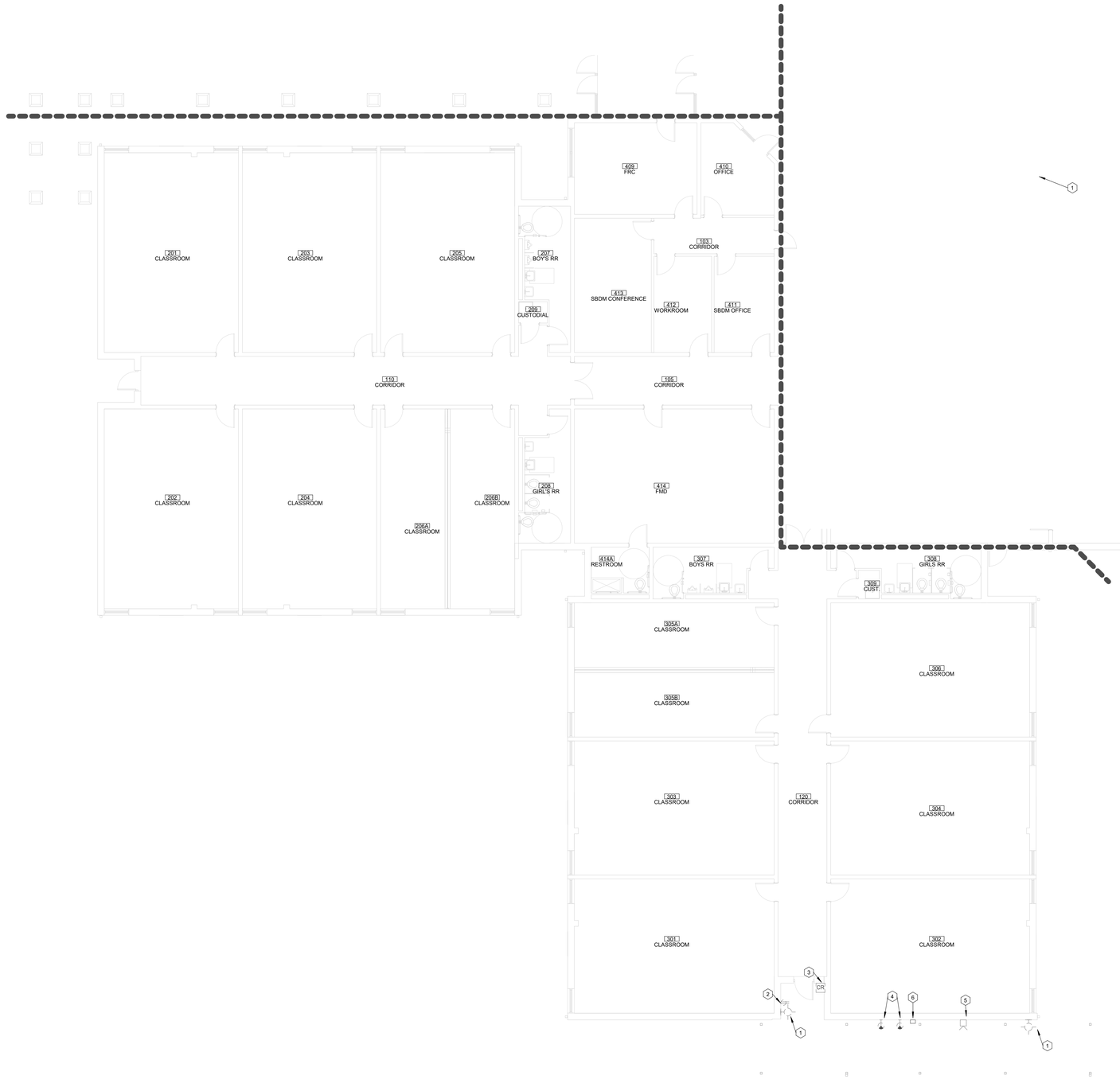



## ELECTRICAL DEMOLITION PLAN - AREA A

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

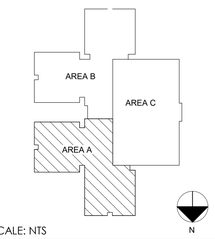
**CODED NOTES:**

1. EXISTING LIGHT FIXTURE IS TO BE REMOVED.
2. EXISTING RECEPTACLE IS TO BE REMOVED AND COVERED WITH FACEPLATE.
3. EXISTING CARD READER IS TO TO BE REMOVED AND RELOCATED PER NOTE 1 ON SHEET E3.1.
4. EXISTING SECURITY CAMERA IS TO BE REMOVED AND RELOCATED PER NOTE 2 ON SHEET E3.1.
5. EXISTING WALL MOUNTED SPEAKER IS TO BE REMOVED. REMOVE ALL WIRING ASSOCIATED WITH THIS SPEAKER. NEW INTERCOM SPEAKER WILL REUSE THIS PORT IN MAIN COMMUNICATION EQUIPMENT. SEE NOTE 4 ON SHEET E3.1.
6. EXISTING JUNCTION BOX AND CONDUITS ARE TO BE REMOVED.

ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
| 105B | CLASSROOM |
| 106 | CLASSROOM |
| 107 | BOY'S RR |
| 108 | GIRL'S RR |
| 109 | CUSTODIAL |
| 110 | CORRIDOR |
| 111 | CORRIDOR |
| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
| 208 | GIRL'S RR |
| 209 | CUSTODIAL |
| 301 | CLASSROOM |
| 302 | CLASSROOM |
| 303 | CLASSROOM |
| 304 | CLASSROOM |
| 305A | CLASSROOM |
| 305B | CLASSROOM |
| 306 | CLASSROOM |
| 307 | BOYS RR |
| 308 | GIRLS RR |
| 309 | CUST. |
| 401 | CLASSROOM |
| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
| 407 | ADMIN RECEPTION |
| 408 | FIRST AID |
| 408A | RR |
| 409 | FRC |
| 410 | OFFICE |
| 411 | SBDM OFFICE |
| 412 | WORKROOM |
| 413 | SBDM CONFERENCE |
| 414 | FMD |
| 414A | RESTROOM |
| 500 | MEDIA CENTER |
| 500A | OFFICE |
| 500B | WORKROOM |
| 500C | STOR. |
| 501 | CAFETERIA |
| 502 | KITCHEN |
| 503 | Room |
| 504 | LOCKERS |
| 504A | LAUNDRY |
| 505 | OFFICE |
| 506 | RECEIVING |
| 507 | DRY FOOD |
| 508 | GYMNASIUM |
| 509 | OFFICE |
| 510 | STOR. |
| 510A | RR |
| 511 | TOILET |
| 512 | MECH. |

KEY PLAN




SCALE: NTS

**NOTE:**
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.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NOT FOR CONSTRUCTION


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# ELECTRICAL DEMOLITION PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG # 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | RG |
| Rev'd By: | WT |

SHEET RELEASE

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DESIGN DEVELOPMENT

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ELECTRICAL DEMOLITION PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
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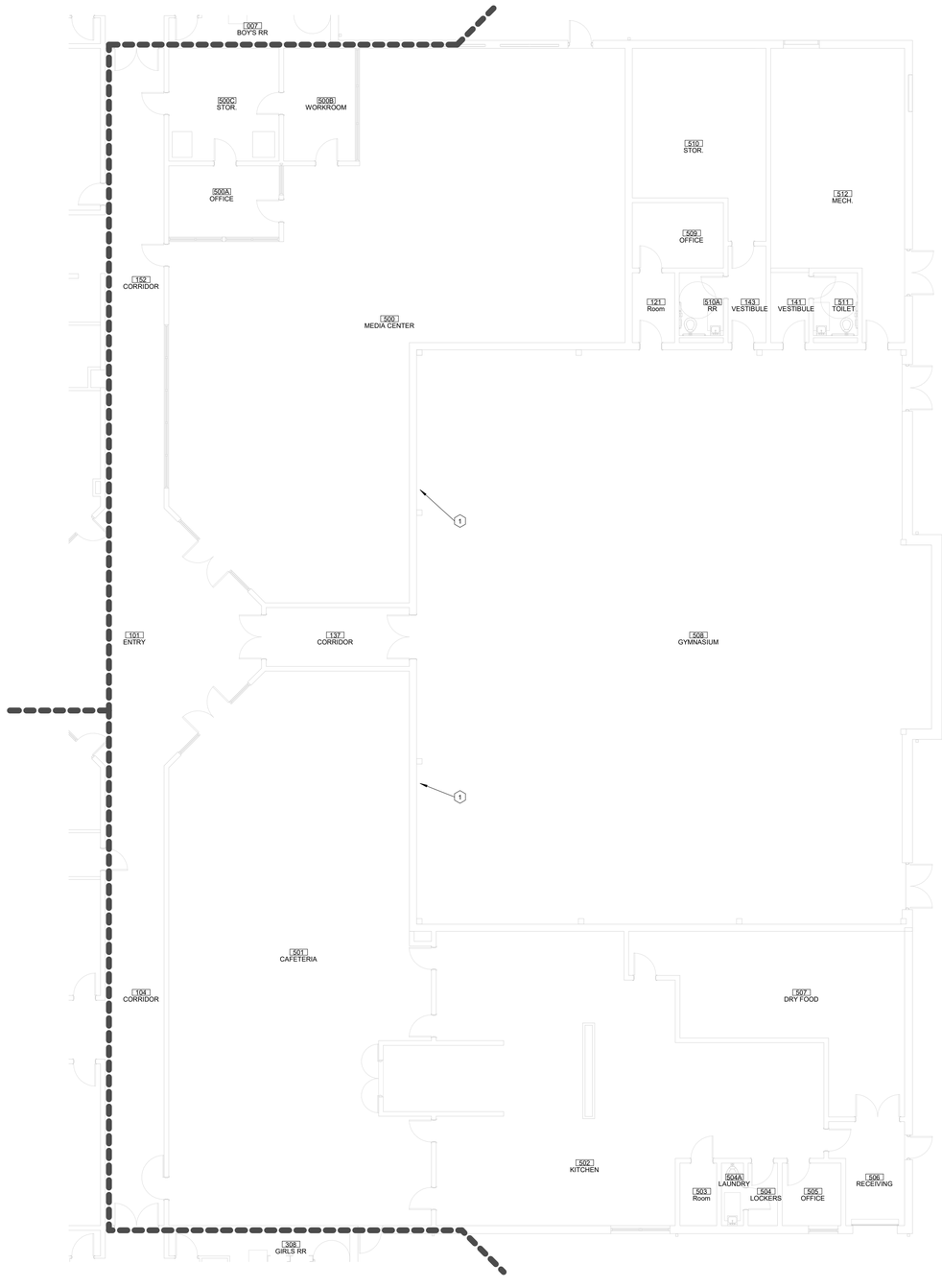


## ELECTRICAL DEMOLITION PLAN - AREA C

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

**CODED NOTES:**

1 BLEACHER CIRCUITS ARE TO BE DISCONNECTED AND REMOVED.

**NOTE:**

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

### ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
| 105B | CLASSROOM |
| 106 | CLASSROOM |
| 107 | BOY'S RR |
| 108 | GIRL'S RR |
| 109 | CUSTODIAL |
| 110 | CORRIDOR |
| 111 | CORRIDOR |
| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
| 208 | GIRL'S RR |
| 209 | CUSTODIAL |
| 301 | CLASSROOM |
| 302 | CLASSROOM |
| 303 | CLASSROOM |
| 304 | CLASSROOM |
| 305A | CLASSROOM |
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| 307 | BOYS RR |
| 308 | GIRLS RR |
| 309 | CUST. |
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| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
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| 408 | FIRST AID |
| 408A | RR |
| 409 | FRC |
| 410 | OFFICE |
| 411 | SBDM OFFICE |
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| 413 | SBDM CONFERENCE |
| 414 | FMD |
| 414A | RESTROOM |
| 500 | MEDIA CENTER |
| 500A | OFFICE |
| 500B | WORKROOM |
| 500C | STOR. |
| 501 | CAFETERIA |
| 502 | KITCHEN |
| 503 | Room |
| 504 | LOCKERS |
| 504A | LAUNDRY |
| 505 | OFFICE |
| 506 | RECEIVING |
| 507 | DRY FOOD |
| 508 | GYMNASIUM |
| 509 | OFFICE |
| 510 | STOR. |
| 510A | RR |
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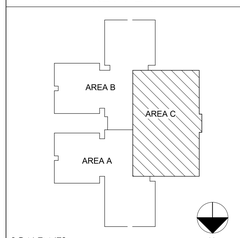
## KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
2365 harrodsburg road lexington kr 40504 859/277-0266


# ELECTRICAL DEMOLITION PLAN - AREA C

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG # 22-207

Project No: 2148

Drawn By: RG

Rev'd By: WT

SHEET RELEASE

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DESIGN DEVELOPMENT

# ED1.2

ELECTRICAL DEMOLITION PLAN - AREA C

DATE ISSUED:

FEBRUARY 22, 2022

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|

| LIGHTING SEQUENCE OF OPERATIONS SCHEDULE | | |
|---|---|---|
| ROOM NUMBER | ROOM NAME | NOTE NUMBER |
| 001 | CLASSROOM | |
| 002 | CLASSROOM | |
| 003 | CLASSROOM | |
| 004 | CLASSROOM | |
| 005 | CLASSROOM | |
| 006A | CLASSROOM | |
| 006B | CLASSROOM | |
| 007 | BOY'S RR | |
| 008 | GIRL'S RR | |
| 009 | CUST. | |
| 100 | VESTIBULE | |
| 101 | CLASSROOM | |
| 101 | ENTRY | |
| 102 | CLASSROOM | |
| 103 | CLASSROOM | |
| 103 | CORRIDOR | |
| 104 | CLASSROOM | |
| 104 | CORRIDOR | |
| 105 | CORRIDOR | |
| 105A | CLASSROOM | |
| 105B | CLASSROOM | |
| 106 | CLASSROOM | |
| 107 | BOY'S RR | |
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| 109 | CUSTODIAL | |
| 110 | CORRIDOR | |
| 111 | CORRIDOR | |
| 112 | CLASSROOM | |
| 113 | CLASSROOM | |
| 114 | PRESCHOOL CLASSROOM | |
| 115 | PRESCHOOL CLASSROOM | |
| 116 | RR | |
| 119 | RR | |
| 120 | CORRIDOR | |
| 121 | Room | |
| 137 | CORRIDOR | |
| 141 | VESTIBULE | |
| 143 | VESTIBULE | |
| 152 | CORRIDOR | |
| 156 | CORRIDOR | |
| 164 | CORRIDOR | |
| 170 | CORRIDOR | |
| 201 | CLASSROOM | |
| 202 | CLASSROOM | |
| 203 | CLASSROOM | |
| 204 | CLASSROOM | |
| 205 | CLASSROOM | |
| 206A | CLASSROOM | |
| 206B | CLASSROOM | |
| 207 | BOY'S RR | |
| 208 | GIRL'S RR | |
| 209 | CUSTODIAL | |
| 301 | CLASSROOM | |
| 302 | CLASSROOM | |
| 303 | CLASSROOM | |
| 304 | CLASSROOM | |
| 305A | CLASSROOM | |
| 305B | CLASSROOM | |
| 306 | CLASSROOM | |
| 307 | BOYS RR | |
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| 407 | ADMIN RECEPTION | |
| 408 | FIRST AID | |
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| 500 | MEDIA CENTER | |
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| 500C | STOR. | |
| 501 | CAFETERIA | |
| 502 | KITCHEN | |
| 503 | Room | |
| 504 | LOCKERS | |
| 504A | LAUNDRY | |
| 505 | OFFICE | |
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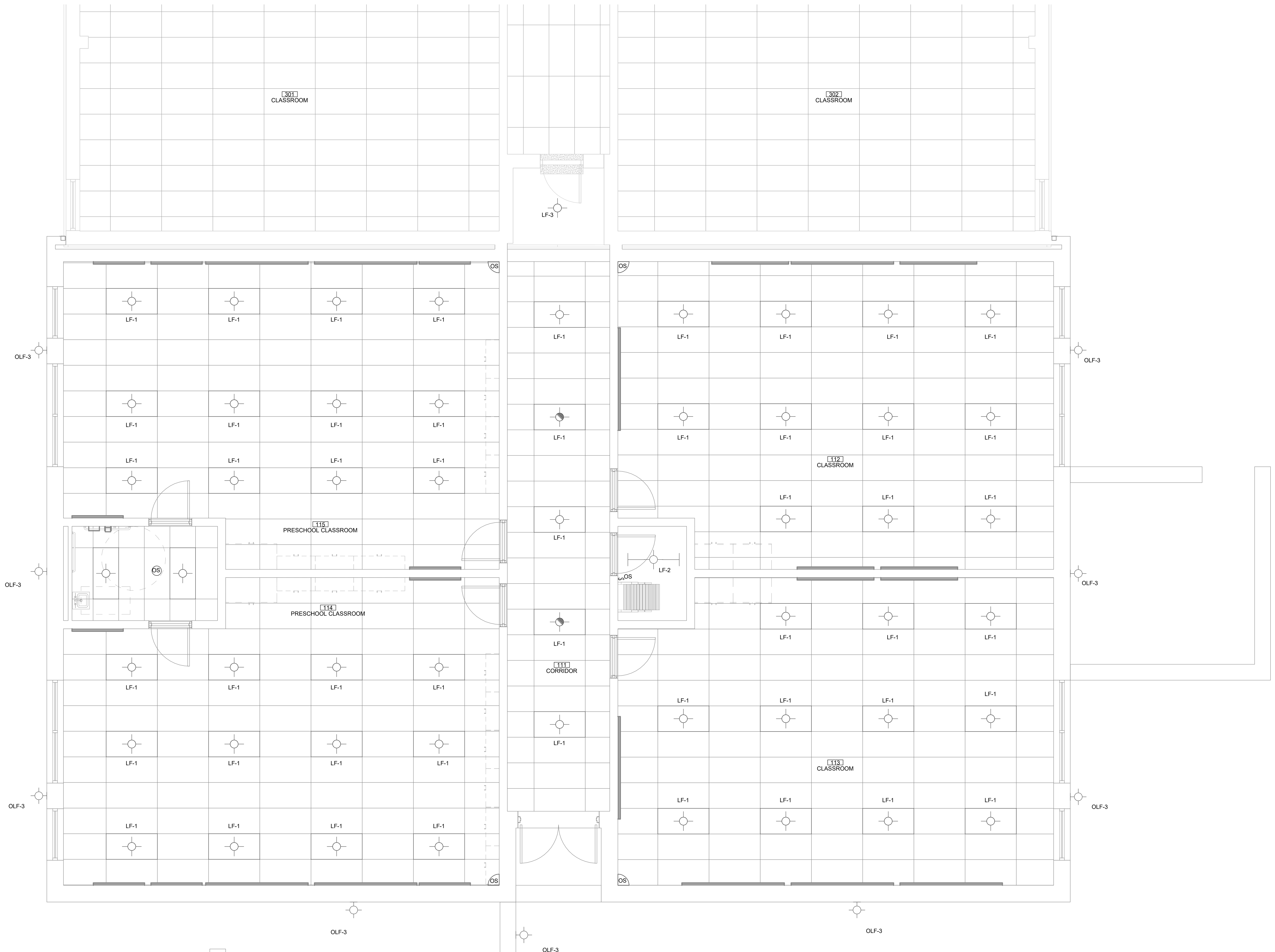
| 508 | GYMNASIUM | |
| 509 | OFFICE | |
| 510 | STOR. | |
| 510A | RR | |
| 511 | TOILET | |
| 512 | MECH. | |

| LIGHT FIXTURE SCHEDULE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LF-# | FIXTURE DESCRIPTION | VOLTAGE | WATTAGE | LAMP | LUMEN OUTPUT | COLOR TEMPERATURE | COLOR RENDERING INDEX (CRI) | DRIVER | MANUFACTURER | MODEL | EQUIVALENT MANUFACTURERS |
| LF-1 | 2' x 4' RECESSED TROFFER | 277 V | 0 | LED | 4800 LM | | | | | | |
| LF-1A | 2' x 4' RECESSED TROFFER | 277 V | 0 | LED | 4000 LM | | | | | | |
| LF-2 | 4' STRIPLIGHT, STEEL CHANNEL WITH TOOL-LESS CHANNEL COVER, DIFFUSE LENS, SUSPENDED OR SURFACE MOUNTED, UL LISTED | 277 V | 39 W | LED | | 4000 K | > 80 | 0-10V DIMMING, DIMS TO 1% | | | |
| LF-3 | 6" RECESSED DOWNLIGHT | 120 V | 12 W | LED | | 4000 K | > 80 | 0-10V DIMMING, DIMS TO 10% | | | |
| OLF-1 | LED AREA LIGHT. INSTALL ON 25' SQUARE STRAIGHT STEEL POLE. | 208 V | 163 W | LED | | | | | | DSX1 P6 40K T2M 208 SPA DF ** // SSS 25 5G VD | |
| OLF-2 | PEDESTRIAN SCALE LED WITH 24" DIAMETER X 4" HIGH DIE-CAST ALUMINUM HOUSING, ACRYLIC WAVE GUIDE,360 DEGREE LED BOARD, ALUMIINUM HEAT SINK, INTEGRAL LED DRIVER, INTEGRAL SURGE PROTECTION,5,000 DELIVERED LUMENS, TYPE 5 DISTRIBUTION, 78,000 HOURS RATED LIFE AT 100,000 HOURS, ETL LISTINGFOR WET LOCATION, AND FIVE YEAR WARRANTY. FIXTURE TO BE MOUNTED TO A 12' STRAIGHT ROUND STEELPOLE. FINISH IS TO BE SELECTED BY ARCHITECT DURING SHOP DRAWING PHASE. | 208 V | 128 W | LED | | | | | | | |
| OLF-3 | WALL MOUNTED ARCHITECTURAL WALL SCONCE. | | | LED | | | | | | | |




LIGHTING PLAN - AREA A
SCALE: 1/4" = 1'-0"

**LIGHTING SEQUENCE OF OPERATIONS NOTES:**

1. **CORRIDORS/VESTIBULES:** LIGHTING SHALL BE CONTROLLED VIA TIME SCHEDULE WITH LOCAL OVERRIDE SWITCHES.

2. **LARGE RESTROOMS:** LIGHTING SHALL BE CONTROLLED VIA TIME SCHEDULE WITH LIGHTS BEING ON DURING BUILDING OPERATIONS AND CONTROLLED BY OCCUPANCY SENSOR AFTER HOURS WITH LOCAL OVERRIDE SWITCHES.

3. **SINGLE RESTROOMS/JANITOR/CUSTODIAL CLOSET:** LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSOR SWITCH.

4. **STORAGE ROOMS:** LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSOR.

5. **MECHANICAL/ELECTRICAL/TELECOMMUNICATION ROOMS:** LIGHTING SHALL BE CONTROL BY A WALL SWITCH.

6. **TYPICAL OFFICE:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. INDICATED (SW) RECEPTACLES SHALL BE CONTROLLED ON/OFF BY THE LIGHTING CONTROL SCHEDULE. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

7. **TYPICAL CONFERENCE/MEETING ROOM:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

8. **TYPICAL CLASSROOM:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

9. **TYPICAL COMPUTER CLASSROOM:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. INDICATED (SW) RECEPTACLES SHALL BE CONTROLLED ON/OFF BY THE LIGHTING CONTROL SCHEDULE. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

10. **STAIRS:** LIGHTING SHALL REMAIN ON AT ALL TIMES. LIGHTING SHALL BE DIMMED TO 50% LEVEL UNTIL OCCUPANCY SENSOR SENSES OCCUPANCY AT WHICH TIME LIGHT LEVEL SHALL BE BROUGHT TO 100%. LIGHTS SHALL RETURN TO 50% LEVEL FIVE MINUTES AFTER LAST OCCUPANCY WAS SENSED.

11. DAY LIGHTING CONTROL BY PHOTOSENSOR.

12. ROOM PARTITION SENSORS TO COMBINE CONTROL OF MULTIPLE ROOMS WHEN PARTITION IS OPEN.

**GENERAL NOTES:**

- IN ALL CLASSROOMS, OFFICES, BREAK ROOMS, AND ADMINISTRATIVE SPACES, ENTRY CONTROL STATIONS SHALL TURN LIGHTS ON TO 80% OF FULL OUTPUT. DIM UP CONTROL AND/OR PRESETS SHALL ALLOW LIGHTS TO BE BROUGHT TO FULL OUTPUT.
- WHERE EMERGENCY TRANSFER RELAYS ARE SHOWN, CONNECTED LIGHT FIXTURES SHALL BE CONTROLLED ALONG WITH THE NORMAL FIXTURES IN THE SAME ZONE OF CONTROL. PROVIDE EMERGENCY, NORMAL, AND CONTROL CIRCUITS TO EMERGENCY TRANSFER RELAY PER THE MANUFACTURER'S DIRECTIONS.
- WHERE DIMMING IS INDICATED TO BE PROVIDED, ADDITIONAL DIMMING CONDUCTORS MY BE REQUIRED FROM LIGHTING CONTROLLER TO FIXTURES. COORDINATE WITH LIGHTING CONTROL SYSTEM REQUIREMENTS AND PROVIDE AS REQUIRED. PROVIDE OCCUPANCY/VACANCY SENSORS, DIMMING BALLASTS/DRIVERS, CONTROLLERS, CONTROL STATIONS, ETC. AS REQUIRED FOR OPERATION AS DESCRIBED BY THE SEQUENCE OF OPERATION.

**EXTERIOR LIGHTS:**

- POLE-MOUNTED AND BUILDING-MOUNTED LIGHT FIXTURES, INCLUDING EMERGENCY EGRESS FIXTURES, ARE TO BE CONTROLLED BY LIGHTING CONTACTORS. CONTACTORS SHALL BE CONTROLLED BY THE HVAC CONTROL SYSTEM. PROVIDE CONTACTOR WITH AN INTEGRAL MANUAL SWITCH TO ALLOW MANUAL CONTROL OF CIRCUIT FOR DIAGNOSTIC PURPOSES. CONTACTORS SHALL BE LOCATED ADJACENT TO PANELBOARDS. EMERGENCY EGRESS FIXTURES SHALL BE CONTROLLED WITH EMERGENCY TRANSFER RELAY(S) SUCH THAT FIXTURES WILL ENERGIZE WHEN GENERATOR RUNS DURING A POWER OUTAGE.

SF - E - Lighting Sequence of Operations Notes
SCALE: 12" = 1'-0"

**NOTE:**

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.


| ROOM SCHEDULE | |
|---|---|
| ROOM NUMBER | ROOM NAME |
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
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| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
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| 102 | CLASSROOM |
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| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
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| 110 | CORRIDOR |
| 111 | CORRIDOR |
| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
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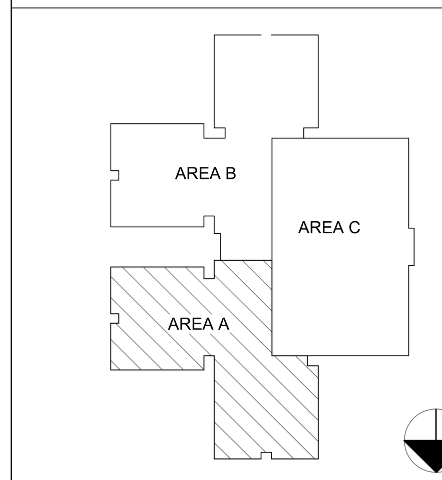
KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS, INC.
3264 Loch Ness Drive Lexington, KY 40517 859-271-3246


LIGHTING PLAN - AREA A
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG # 22-207

Project No: 2148
Drawn By: RG
Rev'd By: WT

| SHEET RELEASE | | |
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DESIGN DEVELOPMENT

# E1.1

LIGHTING PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
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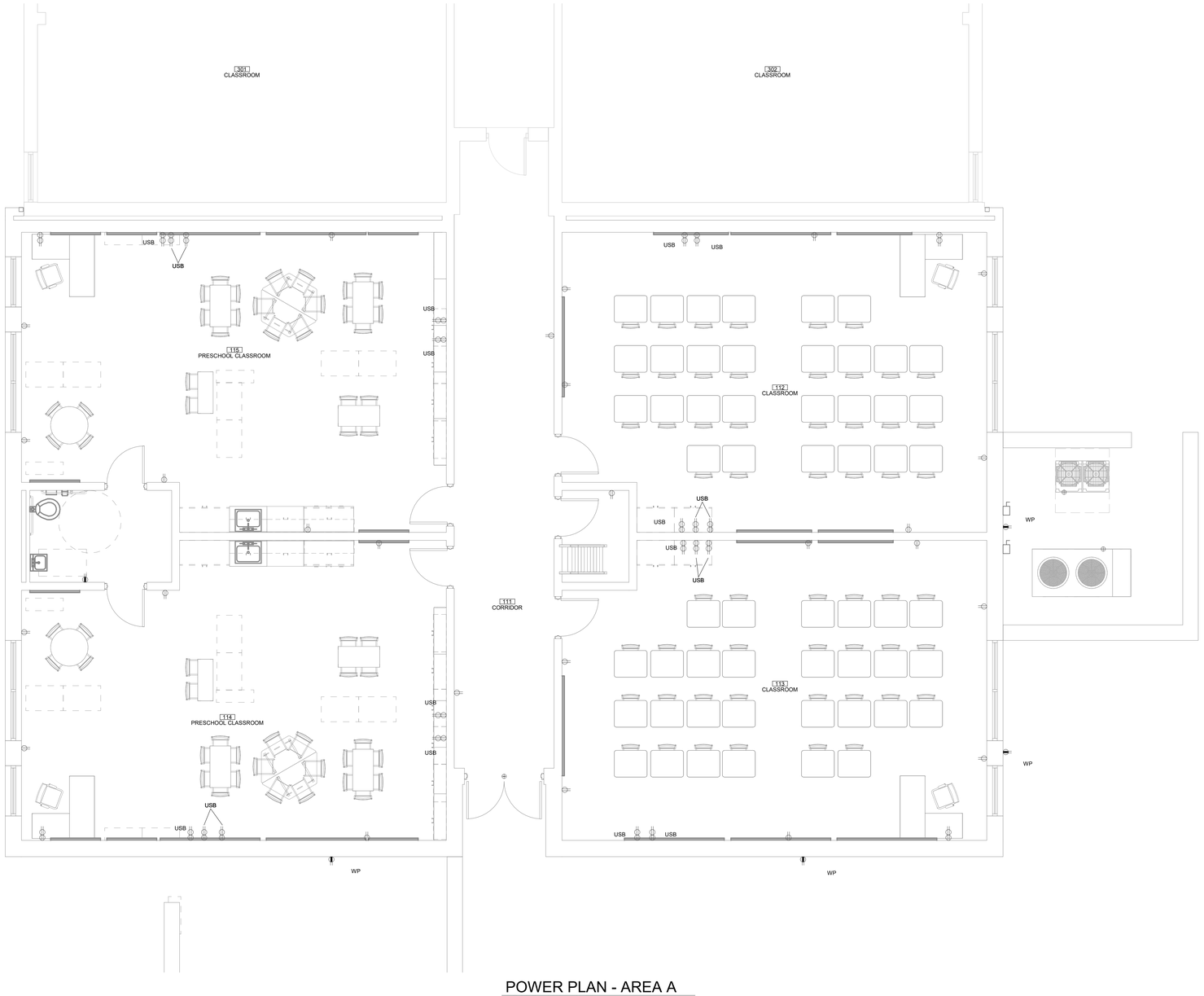


## POWER PLAN - AREA A

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

**NOTE:**

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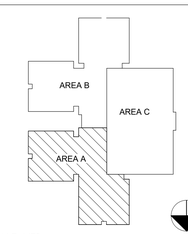


SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
2365 harrodsburg road, suite b-200
lexington, kentucky 40504
859.277.0266


# POWER PLAN - AREA A

FOR:

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG # 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | RG |
| Rev'd By: | WT |

SHEET RELEASE

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DESIGN DEVELOPMENT

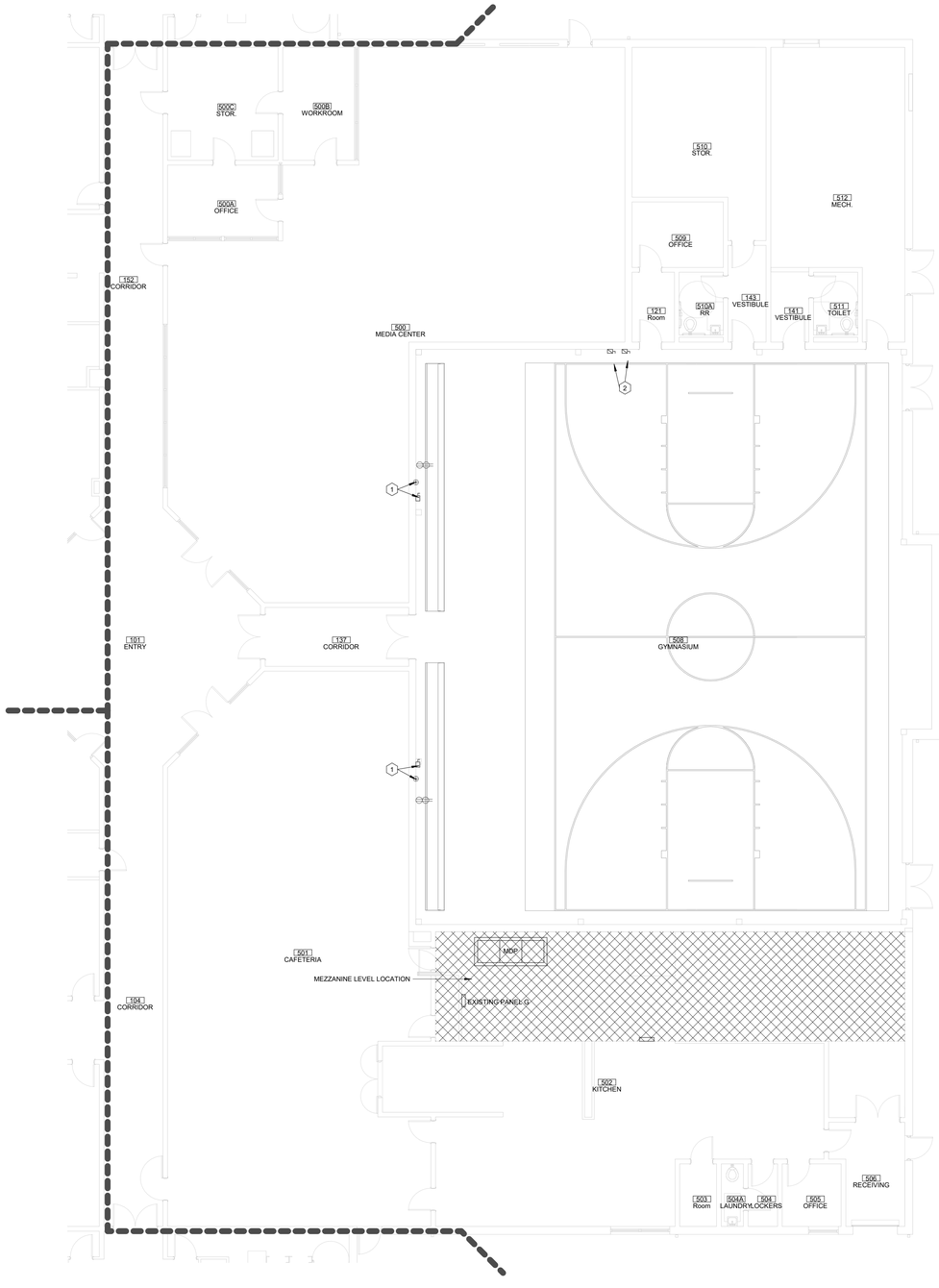
E2.1

POWER PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |




## POWER PLAN - AREA C

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

**CODED NOTES:**

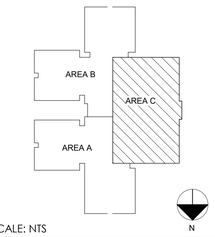
1 30A/3P/208V NON-FUSED DISCONNECT. INSTALL BELOW BLEACHERS AND AT THE CENTER POINT OF THE HORIZONTAL LENGTH OF THE BLEACHERS. PROVIDE CONNECTION TO THE BLEACHER SYSTEM. EXTEND CIRCUIT FROM THE LOAD SIDE OF THE DISCONNECT TO JUNCTION BOXES 5' A.F.F. AT SECTION JOINTS. COORDINATE WITH BLEACHER SHOP DRAWINGS AND PROVIDE ROUGH-IN REQUIRED.

2 30A/3P/208NNECT. FUSED AT 20 AMPS. COORDINATE EXACT LOCATION FOR DISCONNECT WITH ELECTRICAL INSPECTOR PRIOR TO INSTALLATION. DISCONNECT SHALL NOT BE LOCATED BELOW BLEACHERS.

ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CLST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
| 105B | CLASSROOM |
| 106 | CLASSROOM |
| 107 | BOY'S RR |
| 108 | GIRL'S RR |
| 109 | CUSTODIAL |
| 110 | CORRIDOR |
| 111 | CORRIDOR |
| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
| 208 | GIRL'S RR |
| 209 | CUSTODIAL |
| 301 | CLASSROOM |
| 302 | CLASSROOM |
| 303 | CLASSROOM |
| 304 | CLASSROOM |
| 305A | CLASSROOM |
| 305B | CLASSROOM |
| 306 | CLASSROOM |
| 307 | BOYS RR |
| 308 | GIRLS RR |
| 309 | CLST. |
| 401 | CLASSROOM |
| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
| 407 | ADMIN RECEPTION |
| 408 | FIRST AID |
| 408A | RR |
| 409 | FRC |
| 410 | OFFICE |
| 411 | SBDM OFFICE |
| 412 | WORKROOM |
| 413 | SBDM CONFERENCE |
| 414 | FMD |
| 414A | RESTROOM |
| 500 | MEDIA CENTER |
| 500A | OFFICE |
| 500B | WORKROOM |
| 500C | STOR. |
| 501 | CAFETERIA |
| 502 | KITCHEN |
| 503 | Room |
| 504 | LOCKERS |
| 504A | LAUNDRY |
| 505 | OFFICE |
| 506 | RECEIVING |
| 507 | DRY FOOD |
| 508 | GYMNASIUM |
| 509 | OFFICE |
| 510 | STOR. |
| 510A | RR |
| 511 | TOILET |
| 512 | MECH. |

## KEY PLAN




SCALE: NTS

**NOTE:**

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
2365 Harrodsburg Road Suite A-230 Lexington, KY 40504
859/277-0266


POWER PLAN - AREA C
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG # 22-207

Project No: 2148
Drawn By: RG
Rev'd By: WT

SHEET RELEASE

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DESIGN DEVELOPMENT

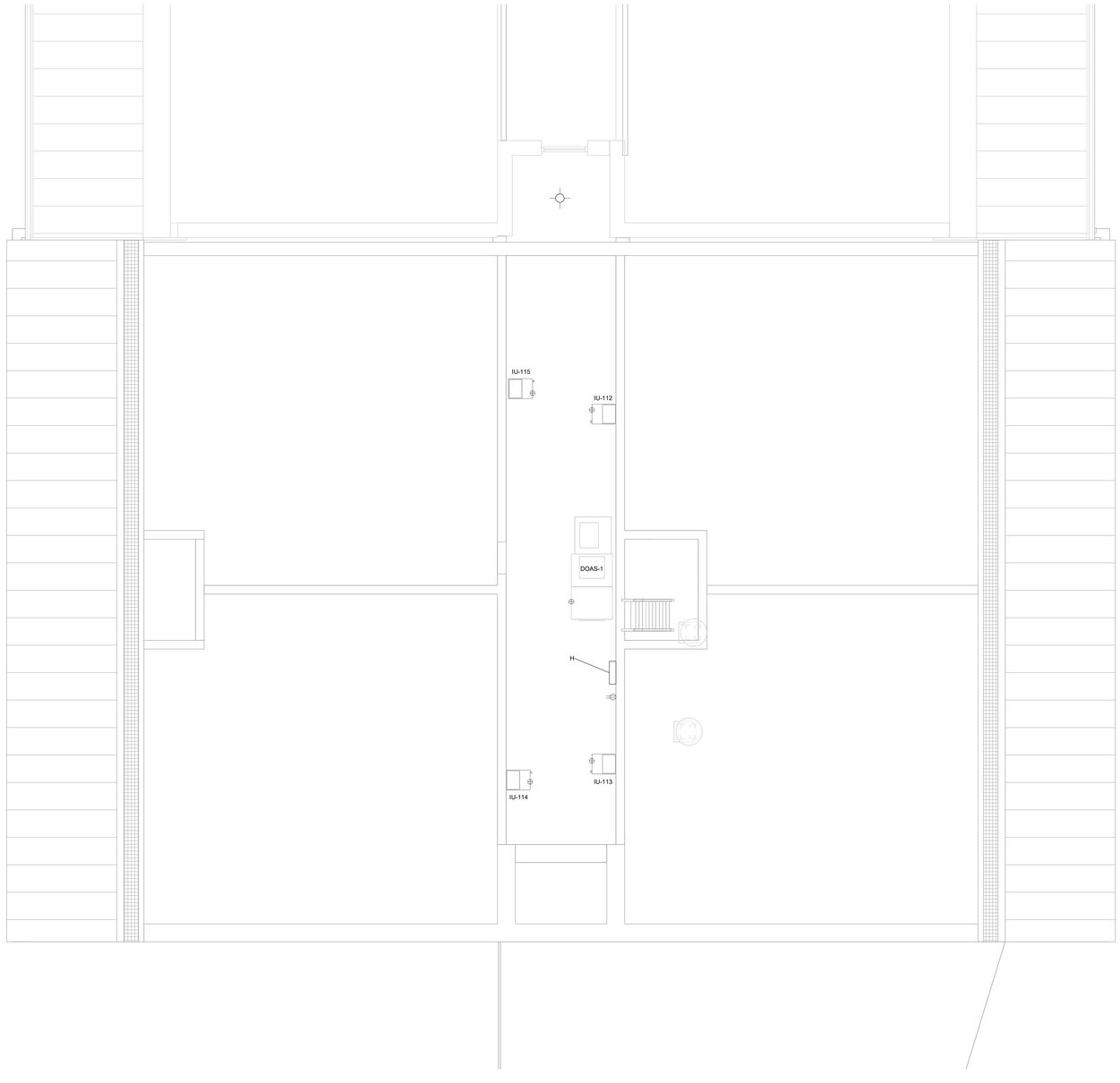
E2.2

POWER PLAN - AREA C

DATE ISSUED:
FEBRUARY 22, 2022

REVISIONS

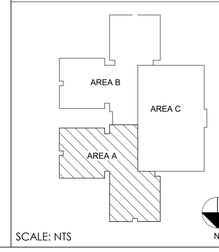
| # | DATE | DESCRIPTION |
|---|---|---|




MEZZANINE POWER PLAN
SCALE: 1/4" = 1'-0"

**NOTE:**
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCEAND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

KEY PLAN




SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

STAGGS & FISHER CONSULTING ENGINEERS, INC.
1020 Corporate Hill Drive
Lexington, KY 40503
859.277.0266

MEZZANINE POWER PLAN
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG # 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | RG |
| Rev'd By: | WT |

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DESIGN DEVELOPMENT

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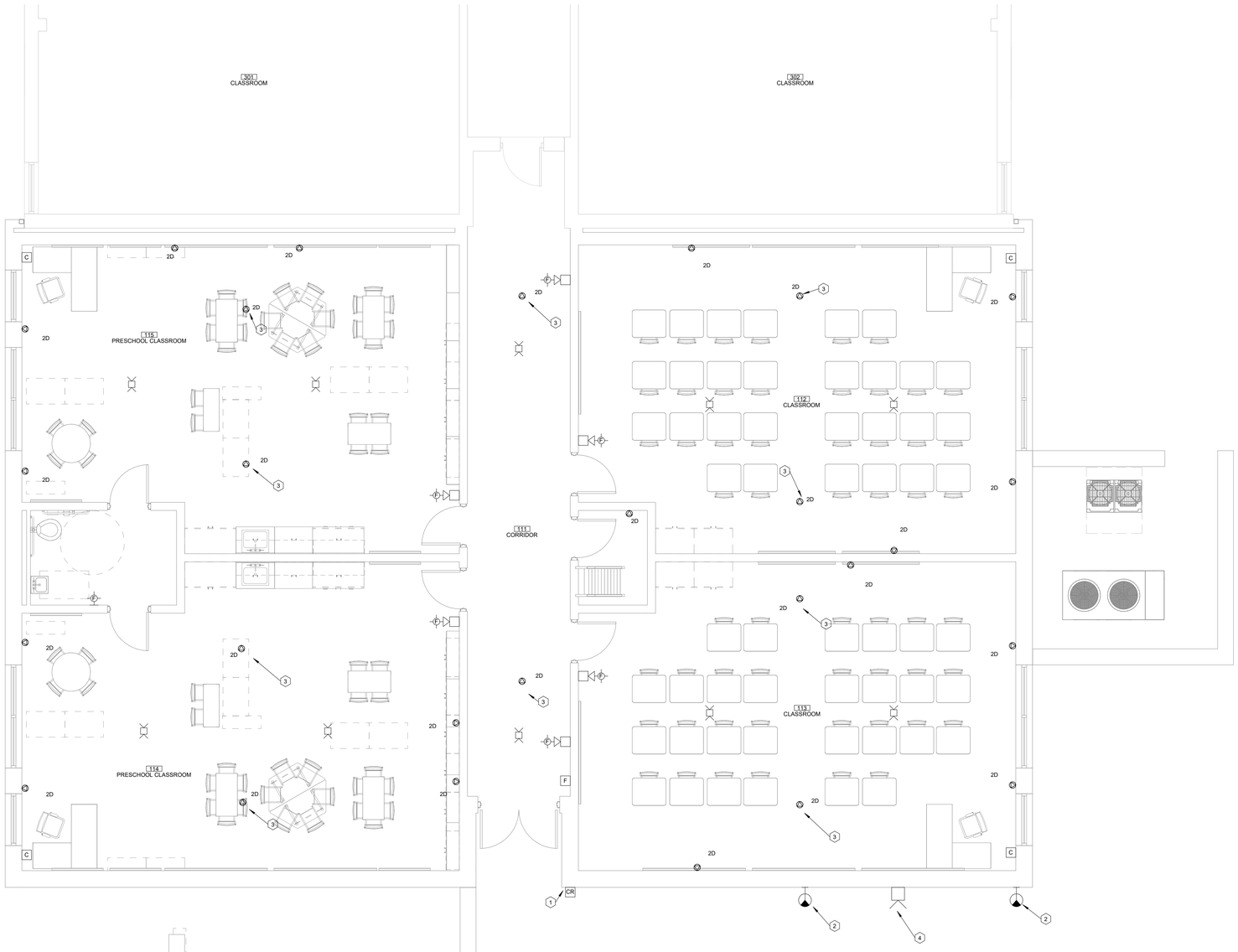
MEZZANINE POWER PLAN

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |




## LOW VOLTAGE PLAN - AREA A

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

**CODED NOTES:**

1. EXISTING CARD READER IS TO BE RELOCATED TO THIS LOCATION. SEE NOTE 3 ON SHEET ED1.1.
2. EXISTING SECURITY CAMERA IS TO BE RELOCATED TO THIS LOCATION. SEE NOTE 4 ON SHEET ED1.1.
3. DATA CABLES SHALL BE TERMINATED ON JACKS IN A 4" X 4" BOX 6" – 12" ABOVE LAY-IN CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINTS. COIL 20' OF SLACK CABLE ABOVE CEILING JUST BEFORE BOX. BOX SHALL BE POINTED DOWN TOWARDS THE FLOOR. INSTALL BLANK COVER PLATE ON BOX.
4. NEW WALL MOUNTED INTERCOM SPEAKER. RUN NEW WIRE BACK TO ROOM 500C. TIE INTO EXISTING CAREHAWK SYSTEM. THIS SPEAKER IS TO BE WIRED INTO SAME PORT AS EXISTING SPEAKER. SEE NOTE 5 ON SHEET ED1.1. SEE SHEET E3.3 FOR LOCATION OF ROOM 500C.

**NOTE:**

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### ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
| 007 | BOY'S RR |
| 008 | GIRL'S RR |
| 009 | CUST. |
| 100 | VESTIBULE |
| 101 | CLASSROOM |
| 101 | ENTRY |
| 102 | CLASSROOM |
| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
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| 105B | CLASSROOM |
| 106 | CLASSROOM |
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| 112 | CLASSROOM |
| 113 | CLASSROOM |
| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
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| 304 | CLASSROOM |
| 305A | CLASSROOM |
| 305B | CLASSROOM |
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| 307 | BOYS RR |
| 308 | GIRLS RR |
| 309 | CUST. |
| 401 | CLASSROOM |
| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
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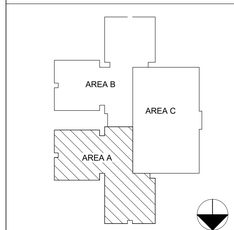
## KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS INC.
2365 harrodsburg road, suite b-200
lexington, kentucky 40504
859.277.0266


# LOW-VOLTAGE PLAN - AREA A

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG # 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | RG |
| Rev'd By: | WT |

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DESIGN DEVELOPMENT

E3.1

LOW-VOLTAGE PLAN - AREA A

DATE ISSUED:
FEBRUARY 22, 2022

## REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
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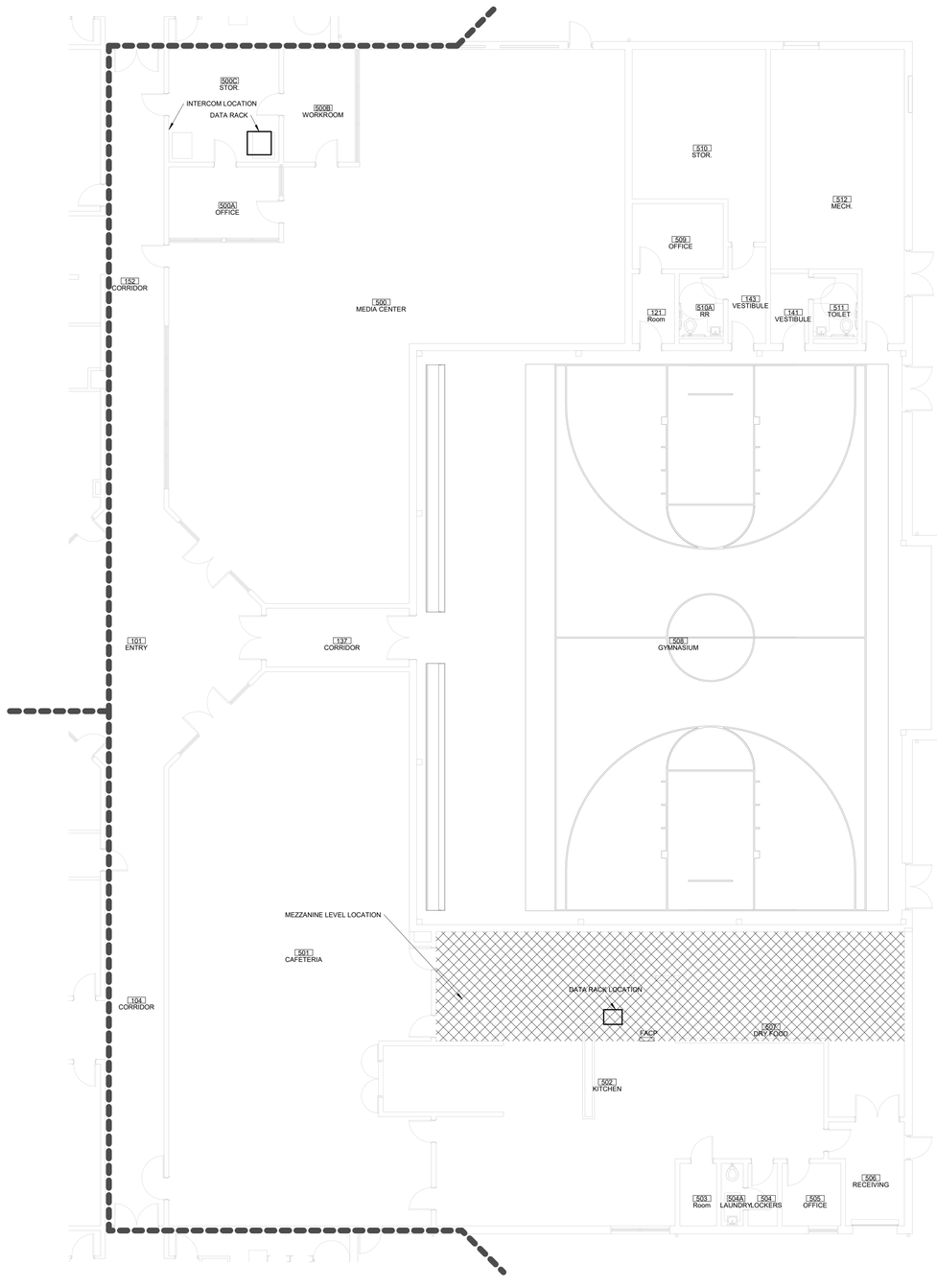


## LOW-VOLTAGE PLAN - AREA C

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

**NOTE:**

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### ROOM SCHEDULE

| ROOM NUMBER | ROOM NAME |
|---|---|
| 001 | CLASSROOM |
| 002 | CLASSROOM |
| 003 | CLASSROOM |
| 004 | CLASSROOM |
| 005 | CLASSROOM |
| 006A | CLASSROOM |
| 006B | CLASSROOM |
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| 009 | CUST. |
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| 101 | CLASSROOM |
| 101 | ENTRY |
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| 103 | CLASSROOM |
| 103 | CORRIDOR |
| 104 | CLASSROOM |
| 104 | CORRIDOR |
| 105 | CORRIDOR |
| 105A | CLASSROOM |
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| 111 | CORRIDOR |
| 112 | CLASSROOM |
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| 114 | PRESCHOOL CLASSROOM |
| 115 | PRESCHOOL CLASSROOM |
| 116 | RR |
| 119 | RR |
| 120 | CORRIDOR |
| 121 | Room |
| 137 | CORRIDOR |
| 141 | VESTIBULE |
| 143 | VESTIBULE |
| 152 | CORRIDOR |
| 156 | CORRIDOR |
| 164 | CORRIDOR |
| 170 | CORRIDOR |
| 201 | CLASSROOM |
| 202 | CLASSROOM |
| 203 | CLASSROOM |
| 204 | CLASSROOM |
| 205 | CLASSROOM |
| 206A | CLASSROOM |
| 206B | CLASSROOM |
| 207 | BOY'S RR |
| 208 | GIRL'S RR |
| 209 | CUSTODIAL |
| 301 | CLASSROOM |
| 302 | CLASSROOM |
| 303 | CLASSROOM |
| 304 | CLASSROOM |
| 305A | CLASSROOM |
| 305B | CLASSROOM |
| 306 | CLASSROOM |
| 307 | BOYS RR |
| 308 | GIRLS RR |
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| 401 | CLASSROOM |
| 402 | RR |
| 403 | RR |
| 404 | RECEPT. |
| 404A | OFFICE |
| 405 | RECORDS |
| 406 | OFFICE |
| 407 | ADMIN RECEPTION |
| 408 | FIRST AID |
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| 409 | FRC |
| 410 | OFFICE |
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| 500A | OFFICE |
| 500B | WORKROOM |
| 500C | STOR. |
| 501 | CAFETERIA |
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| 503 | Room |
| 504 | LOCKERS |
| 504A | LAUNDRY |
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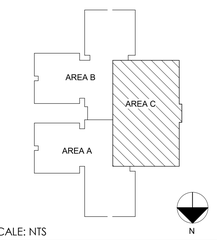
| 511 | TOILET |
| 512 | MECH. |

## KEY PLAN




SCALE: NTS


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

STAGGS & FISHER CONSULTING ENGINEERS INC.
2301 Regency Road Suite
Lexington KY 40503
859.277.0266


NOT FOR CONSTRUCTION

# LOW-VOLTAGE PLAN - AREA C

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

BG # 22-207

Project No: 2148
Drawn By: RG
Rev'd By: WT

SHEET RELEASE

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DESIGN DEVELOPMENT

E3.2

LOW-VOLTAGE PLAN - AREA C

DATE ISSUED:
FEBRUARY 22, 2022

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |

**Branch Panel: H**

**Location:**
**Supply From:**
**Mounting:** SURFACE / RECESSED
**Enclosure:** TYPE 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 22,000
**Mains Type:** MCB
**MCB/MLO Rating:** 225

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Lighting | 20 A | 2 | 384 VA | | | | | | | | | 2 |
| 3 | | | | | | 384 VA | | | | | | | 4 |
| 5 | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | 10 |
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| 37 | | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | 42 |
| 43 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 44 |
| 45 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 46 |
| 47 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 48 |
| 49 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 50 |
| 51 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 52 |
| 53 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 54 |
| | | | **Total Load:** | 384 VA | | 384 VA | | 0 VA | | | | | |
| | | | **Total Amps:** | 4 A | | 4 A | | 0 A | | | | | |

**Branch Panel: PANELBOARD G**

**Location:**
**Supply From:**
**Mounting:** SURFACE / RECESSED
**Enclosure:** TYPE 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 22,000
**Mains Type:**
**MCB/MLO Rating:** 100

**Notes:**

| CKT | Circuit Description | Trip | Poles | A | | B | | C | | Poles | Trip | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXISITNG CIRCUIT | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | EXISITNG CIRCUIT | 2 |
| 3 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 4 |
| 5 | EXISITNG CIRCUIT | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | EXISITNG CIRCUIT | 6 |
| 7 | EXISITNG CIRCUIT | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | EXISITNG CIRCUIT | 8 |
| 9 | EXISITNG CIRCUIT | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | EXISITNG CIRCUIT | 10 |
| 11 | EXISITNG CIRCUIT | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | EXISITNG CIRCUIT | 12 |
| 13 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 2 | 30 A | EXISITNG CIRCUIT | 14 |
| 15 | EXISITNG CIRCUIT | 20 A | 1 | | | 0 VA | 0 VA | | | | | | 16 |
| 17 | EXISITNG CIRCUIT | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | EXISITNG CIRCUIT | 18 |
| 19 | | | | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 20 |
| 21 | EXISITNG CIRCUIT | 20 A | 3 | | | 0 VA | 0 VA | | | 2 | 30 A | SPARE | 22 |
| 23 | | | | | | | | 0 VA | 0 VA | | | | 24 |
| 25 | NEW EXTERIOR LIGHTING | 20 A | 2 | 408 VA | | | | | | | | | 26 |
| 27 | | | | | | 408 VA | | | | | | | 28 |
| 29 | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | 32 |
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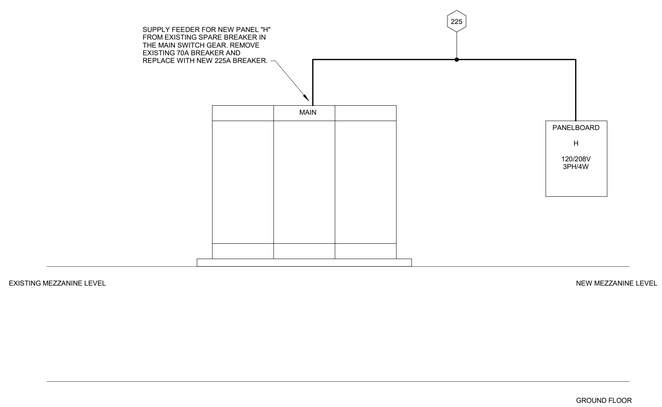
| 51 | | | | | | | | | | | | | 52 |
| 53 | | | | | | | | | | | | | 54 |
| | | | **Total Load:** | 408 VA | | 408 VA | | 0 VA | | | | | |
| | | | **Total Amps:** | 4 A | | 4 A | | 0 A | | | | | |




## ELECTRICAL DISTRIBUTION SYSTEM RISER DIAGRAM

SCALE: NONE

## FEEDER AND BRANCH CIRCUIT SCHEDULE

| NO. | CONDUCTORS THWN/THHN COPPER |
|---|---|
| 20 | 4#12 & 1#12 GND. IN 3/4" CONDUIT. |
| 30 | 4#10 & 1#10 GND. IN 3/4" CONDUIT. |
| 40 | 4#8 & 1#10 GND. IN 1" CONDUIT. |
| 45 | 4#6 & 1#10 GND. IN 1" CONDUIT. |
| 50 | 4#6 & 1#10 GND. IN 1" CONDUIT. |
| 60 | 4#4 & 1#8 GND. IN 1-1/4"" CONDUIT. |
| 70 | 4#4 & 1#8 GND. IN 1-1/4" CONDUIT. |
| 80 | 4#3 & 1#8 GND. IN 1-1/4" CONDUIT. |
| 90 | 4#2 & 1#8 GND. IN 1-1/4" CONDUIT. |
| 100 | 4#1 & 1#6 GND. IN 1-1/2" CONDUIT. |
| 110 | 4#1 & 1#6 GND. IN 1-1/2" CONDUIT. |
| 125 | 4#1 & 1#6 GND. IN 1-1/2" CONDUIT. |
| 150 | 4#1/0 & 1#6 GND. IN 2" CONDUIT. |
| 175 | 4#2/0 & 1#6 GND. IN 2" CONDUIT. |
| 200 | 4#3/0 & 1#6 GND. IN 2" CONDUIT. |
| 225 | 4#4/0 & 1#4 GND. IN 2-1/2" CONDUIT. |
| 250 | 4-250MCM & 1#4 GND. IN 3" CONDUIT. |
| 300 | 4-350MCM & 1#3 GND. IN 3" CONDUIT. |
| 350 | 4-500MCM & 1#2 GND. IN 3-1/2" CONDUIT. |
| 400 | 4-500MCM & 1#3 GND. IN 3-1/2" CONDUIT. |
| 500 | 4-250MCM & 1#2 GND. IN EACH OF TWO (2) 2-1/2" CONDUITS. |
| 600 | 4-350MCM & 1#1 GND. IN EACH OF TWO (2) 3" CONDUITS. |
| 700 | 4-500MCM & 1#1/0 GND. IN EACH OF TWO (2) 3-1/2" CONDUITS. |
| 800 | 4-500MCM & 1#1/0 GND. IN EACH OF TWO (2) 3 1/2" CONDUITS. |
| 900 | 4-350MCM & 1#2/0 GND. IN EACH OF THREE (3) 3" CONDUITS. |
| 1000 | 4-400MCM & 1#3/0 GND. IN EACH OF THREE (3) 3-1/2" CONDUITS. |
| 1200 | 4-350MCM & 1#3/0 GND. IN EACH OF FOUR (4) 3" CONDUITS. |
| 1400 | 4-500MCM & 1#4/0 GND. IN EACH OF FOUR (4) 3-1/2" CONDUITS. |
| 1600 | 4-500MCM & 1#4/0 GND. IN EACH OF FIVE (5) 3-1/2" CONDUITS. |
| 1800 | 4-500MCM & 1-250MCM GND. IN EACH OF FIVE (5) 3-1/2" CONDUITS. |
| 2000 | 4-500MCM & 1-250MCM GND. IN EACH OF SIX (6) 3-1/2" CONDUITS. |
| 2500 | 4-500MCM & 1-350MCM GND. IN EACH OF SEVEN (7) 3-1/2" CONDUITS. |
| 3000 | 4-500MCM & 1-500MCM GND. IN EACH OF ELEVEN (11) 3-1/2" CONDUITS. |
| 20 N | DESIGNATES THAT THE NEUTRAL CONDUCTOR IS NOT REQUIRED. |

ADJUST QUANTITY OF WIRES FOR BRANCH CIRCUITS IN ACCORDANCE WITH CIRCUIT BREAKER SIZE SHOWN IN PANEL SCHEDULES.

INCREASE WIRE SIZE TO THE NEXT WIRE SIZE FOR BRANCH CIRCUITS OVER 150 FEET.

INCREASE WIRE SIZE TO NEXT WIRE SIZE FOR EVERY ADDITIONAL 150 FEET.


rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018


NOT FOR CONSTRUCTION


STAGGS & FISHER CONSULTING ENGINEERS, INC.
1400 Nicholasville Road Lexington, KY 40503
859.277.0266


ELECTRICAL DISTRIBUTION SYSTEM RISER & PANEL SCHEDULES
ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION
FOR:
ESTILL COUNTY BOARD OF EDUCATION
IRVINE, KENTUCKY

BG # 22-207

| | |
|---|---|
| Project No: | 2148 |
| Drawn By: | RG |
| Rev'd By: | WT |

| SHEET RELEASE | | |
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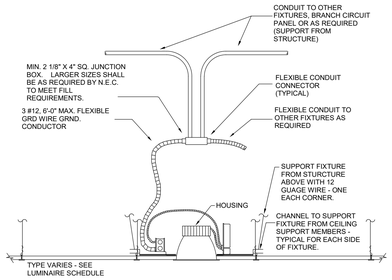
DESIGN DEVELOPMENT

E4.0

ELECTRICAL DISTRIBUTION SYSTEM RISER & PANEL SCHEDULES

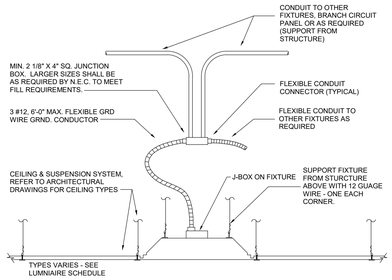
DATE ISSUED:
FEBRUARY 22, 2022

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |



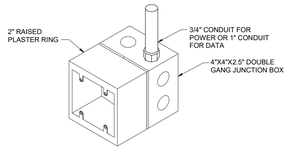

RECESSED LUMINAIRE CONNECTION

SCALE: NONE



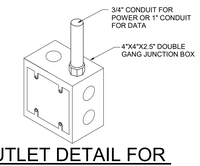

LUMINAIRE CONNECTION DETAIL

SCALE: NONE



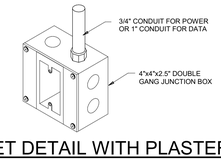

OUTLET DETAIL WITH PLASTER RINGFOR MASONRY APPLICATION

SCALE: NONE



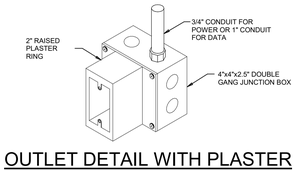

OUTLET DETAIL FOR DRYWALL APPLICATION

SCALE: NONE




OUTLET DETAIL WITH PLASTER RING FOR DRYWALL APPLICATION

SCALE: NONE




OUTLET DETAIL WITH PLASTER RING FOR MASONRY APPLICATION

SCALE: NONE

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p.859.254.4018

NOT FOR CONSTRUCTION

STAGGS & FISHER CONSULTING ENGINEERS, INC.
1001 Corporate Drive Lexington, KY 40511
859.271.0246

ELECTRICAL DETAILS

ESTILL SPRINGS ELEMENTARY ARP ESSER PHASE II RENOVATION & ADDITION

FOR:

ESTILL COUNTY BOARD OF EDUCATION

IRVINE, KENTUCKY

| BG # | 22-207 |
|---|---|
| Project No: | 2148 |
| Drawn By: | RG |
| Rev'd By: | WT |

| SHEET RELEASE | |
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DESIGN DEVELOPMENT

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ELECTRICAL DETAILS

DATE ISSUED:
FEBRUARY 22, 2022