

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

VOLUME 1 Cover Sheet

H-G000

September 28, 2020

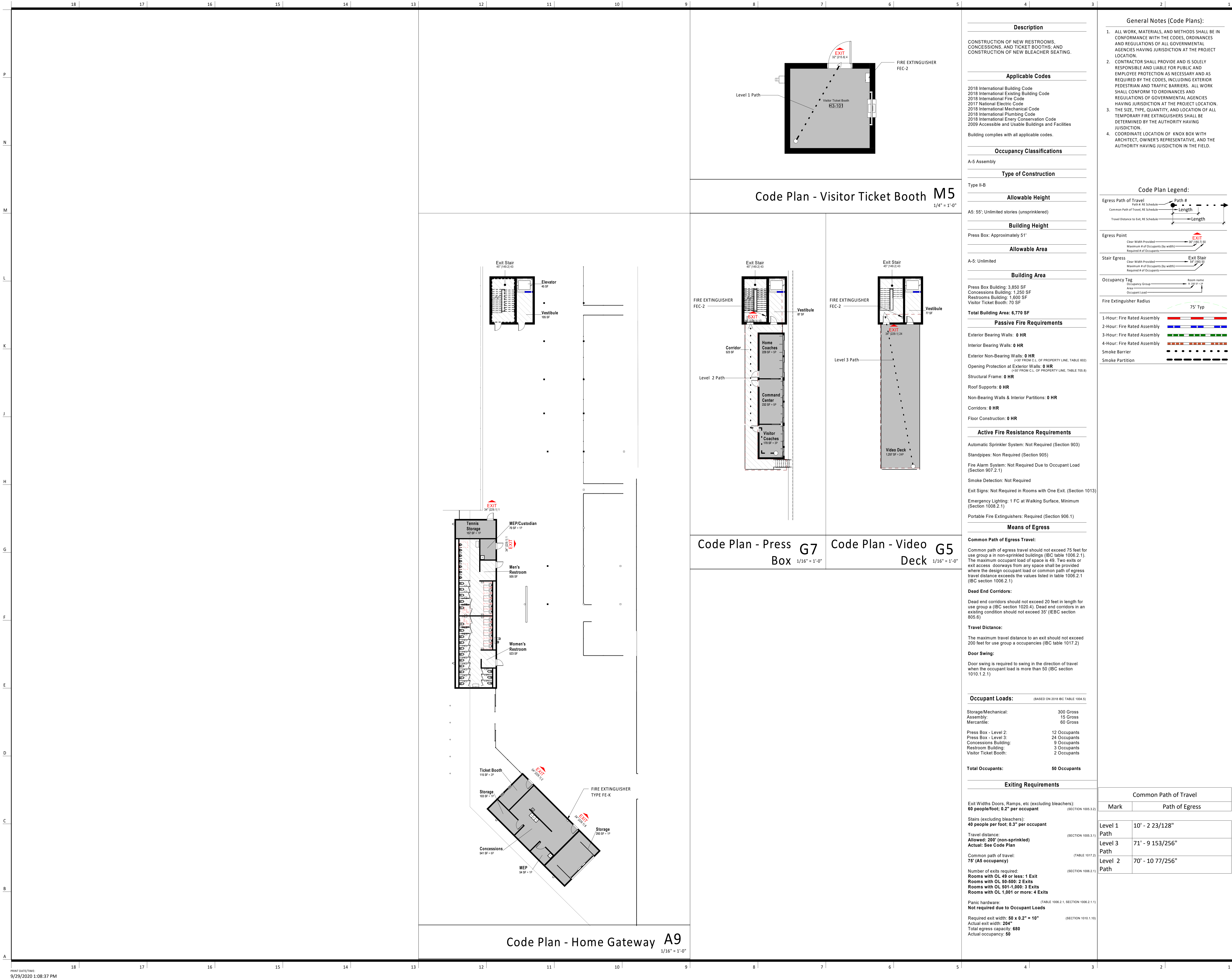
Project Team:

| owner: | architect: | structural engineer: | civil engineer: | mechanical/electrical engineer: |
|---|---|--|--|--|
| Lee's Summit R-7 School District 301 NE Tudor Road Lee's Summit, MO 64086 | Gould Evans 4200 Pennsylvania Avenue Kansas City, MO 64111 816.931.6655 voice www.goulddevans.com | Bob D. Campbell & Company, 4338 Belleview Avenue Kansas City, MO 64111 816.531.4144 | Kaw Valley Engineering 14700 West 114th Terrace Lenexa, KS 66215 913.485.0318 | Henderson Engineers 8345 Lenexa Drive Suite 300 Lenexa, KS 66214 816.742.5000 |

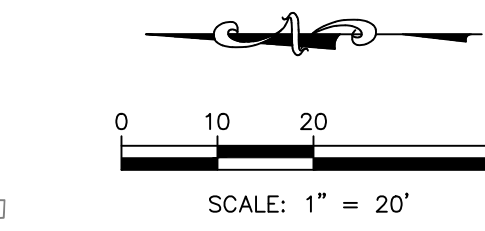
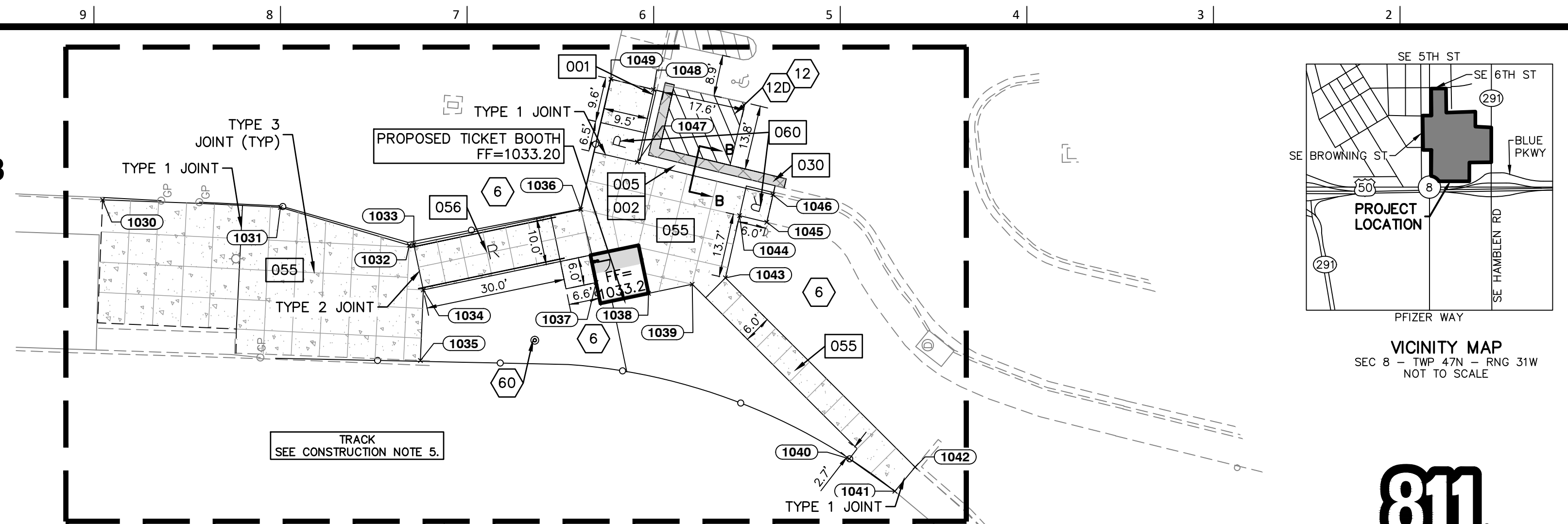
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BID SET

0119-0101



LEE'S SUMMIT HIGH SCHOOL
SITE PLAN
400 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063
SECTION 8 - TOWNSHIP 47 N - RANGE 31 W



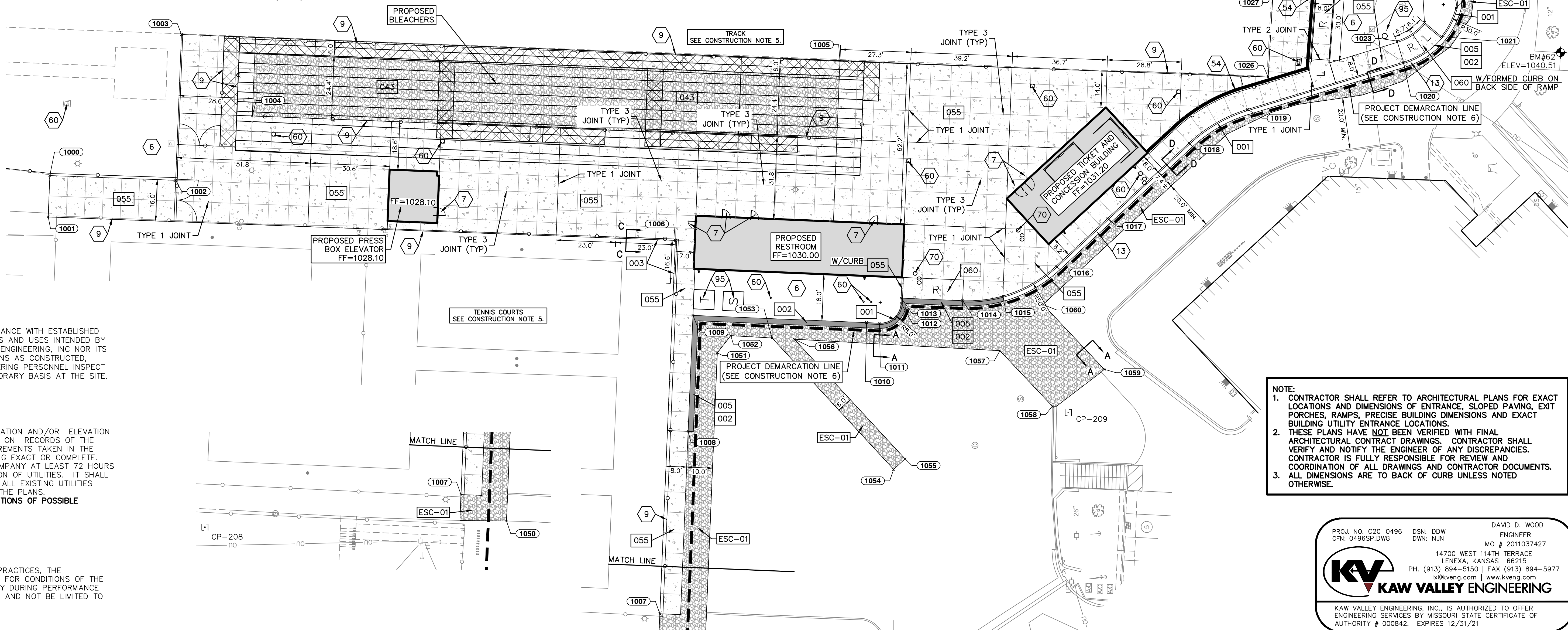
HORIZONTAL AND VERTICAL DATUM:
UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAD 1983) (NAD 1983)
NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET)
EASTING: 860950.475 (GRID/METERS) 2824923.692 (GROUND/FEET)
ELEVATION: 321.8 (METERS) 1055.77 (FEET)

- NOTES:
- DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDED WITH A THREE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENTS ON SHEET W-C000.) ALL SEEDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL.)
 - CONCRETE STOOP (REFERENCE STRUCTURAL PLANS)
 - PROPOSED FENCING (REFERENCE ARCHITECTURAL PLANS FOR DETAILS AND FENCING OUTSIDE DRAWING LIMITS)
 - WHITE PARKING LOT STRIPING (SEE SPECIFICATIONS THIS SHEET)
 - GORE AREA, 4" WHITE STRIPE AT 45 TO DIRECTION OF TRAVEL, SPACE AT 2'.
 - PAINT CURB YELLOW TO DENOTE FIRE LANE, CONFIRM LIMITS WITH FIRE DEPARTMENT. (SEE SPECIFICATIONS THIS SHEET)
 - CAST IN PLACE CONCRETE WALL (REFER TO ARCHITECTURAL AND STRUCTURAL PLAN SHEETS FOR DETAILS AND H-C350 FOR LINE AND GRADE)
 - STORM SEWER STRUCTURE (SEE C600 SERIES SHEETS)
 - SANITARY SEWER STRUCTURE (SEE SHEET C500 SERIES SHEETS)
 - PROPOSED TRANSFORMER ON HOUSE KEEPING PAD/ELECTRICAL APPURTENANCE, COORDINATE WITH MEP PLANS.

- DETAILS - SEE DETAIL SHEETS H-C190 AND H-C195 FOR THE FOLLOWING DETAILS
- 001 CONCRETE CURB AND GUTTER
 - 002 ZERO HEIGHT CURB
 - 003 STRAIGHT CURB
 - 005 INTEGRAL CURB AND SIDEWALK
 - 030 EDGE MILL AND OVERLAY
 - 040 ASPHALT PAVEMENT
 - 055 CONCRETE SIDEWALK
 - 056 CONCRETE RAMP
 - 060 SIDEWALK RAMP
 - ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

| COORDINATE TABLE | | | |
|------------------|-----------|------------|-------------|
| ◇ | NORTHING | EASTING | DESCRIPTION |
| 1000 | 997666.29 | 2827157.98 | SW |
| 1001 | 997666.89 | 2827141.99 | SW |
| 1002 | 997617.66 | 2827156.15 | SW |
| 1003 | 997615.44 | 2827212.45 | SW |
| 1004 | 997588.06 | 2827180.98 | SW |
| 1005 | 997361.01 | 2827202.33 | SW |
| 1006 | 997424.60 | 2827132.94 | SW |
| 1007 | 997430.60 | 2826988.79 | SW |
| 1008 | 997419.66 | 2827059.22 | BC |
| 1009 | 997417.80 | 2827103.99 | BC |
| 1010 | 997350.74 | 2827101.20 | BC |
| 1011 | 997345.75 | 2827100.99 | BC |
| 1012 | 997337.42 | 2827108.65 | BC |
| 1013 | 997337.34 | 2827110.65 | BC |
| 1014 | 997313.61 | 2827109.66 | BC |
| 1015 | 997298.07 | 2827111.47 | BC |
| 1016 | 997277.56 | 2827123.94 | BC |
| 1017 | 997257.55 | 2827141.47 | BC |
| 1018 | 997226.13 | 2827170.57 | BC |
| 1019 | 997203.52 | 2827185.53 | BC |
| 1020 | 997143.29 | 2827201.76 | BC |
| 1021 | 997128.65 | 2827211.62 | BC |
| 1022 | 997135.17 | 2827217.07 | BC |
| 1023 | 997145.76 | 2827209.90 | BC |
| 1024 | 997123.01 | 2827222.69 | BC |
| 1025 | 997127.63 | 2827228.95 | BC |
| 1026 | 997195.56 | 2827196.02 | SW |
| 1027 | 997193.73 | 2827228.10 | SW |
| 1028 | 997172.65 | 2827298.09 | SW |
| 1029 | 997164.67 | 2827297.49 | SW |
| 1030 | 997393.86 | 2827504.33 | SW |

| COORDINATE TABLE | | | |
|------------------|-----------|------------|-------------|
| ◇ | NORTHING | EASTING | DESCRIPTION |
| 1031 | 997355.75 | 2827502.73 | SW |
| 1032 | 997328.13 | 2827494.60 | SW |
| 1033 | 997327.15 | 2827494.80 | SW |
| 1034 | 997325.11 | 2827485.01 | SW |
| 1035 | 997325.74 | 2827469.88 | SW |
| 1036 | 997291.33 | 2827502.25 | SW |
| 1037 | 997288.07 | 2827486.59 | SW |
| 1038 | 997276.83 | 2827484.29 | SW |
| 1039 | 997267.46 | 2827486.24 | SW |
| 1040 | 997233.78 | 2827448.79 | SW |
| 1041 | 997224.03 | 2827441.84 | SW |
| 1042 | 997219.68 | 2827447.02 | SW |
| 1043 | 997260.34 | 2827487.61 | SW |
| 1044 | 997257.31 | 2827500.96 | SW |
| 1045 | 997251.48 | 2827499.53 | SW |
| 1046 | 997250.14 | 2827505.41 | BC |
| 1047 | 997279.23 | 2827512.43 | BC |
| 1048 | 997275.77 | 2827527.99 | BC |
| 1049 | 997284.88 | 2827530.23 | SW |
| 1050 | 997413.01 | 2826978.58 | SAWCUT |
| 1051 | 997408.39 | 2827089.54 | SAWCUT |
| 1052 | 997403.18 | 2827096.17 | SAWCUT |
| 1053 | 997387.25 | 2827095.28 | SAWCUT |
| 1054 | 997340.26 | 2827044.54 | SAWCUT |
| 1055 | 997335.86 | 2827048.61 | SAWCUT |
| 1056 | 997378.63 | 2827094.79 | SAWCUT |
| 1057 | 997299.22 | 2827090.36 | SAWCUT |
| 1058 | 997278.96 | 2827068.92 | SAWCUT |
| 1059 | 997258.92 | 2827083.19 | SAWCUT |
| 1060 | 997282.55 | 2827108.18 | SAWCUT |



- NOTE:
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 - THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
 - ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

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KAW VALLEY ENGINEERING

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owner:
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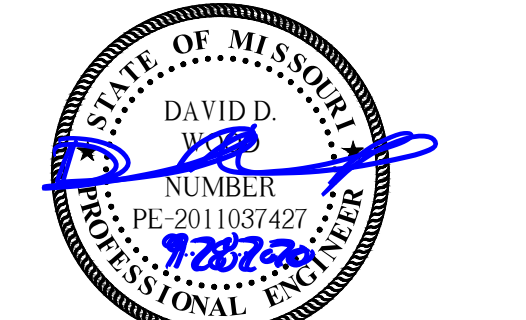
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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

| Number | DESCRIPTION | DATE |
|--------|-------------|------|
|--------|-------------|------|

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

SITE AND DIMENSION PLAN

H-C100

BID SET

18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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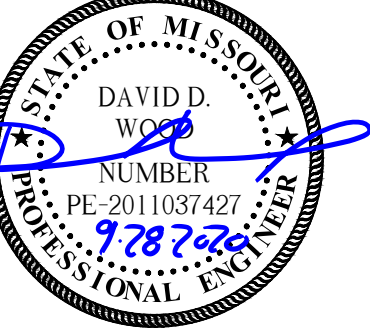
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Engineer License No. PE-2011037427

REVISIONS

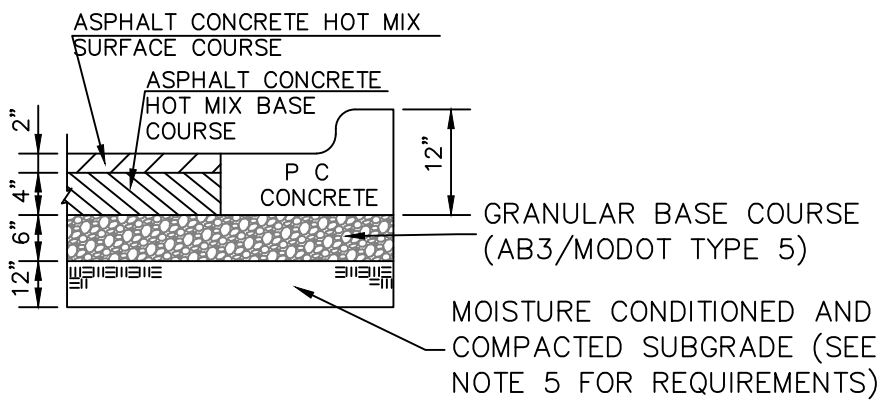
Number DESCRIPTION DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

SITE DETAILS

H-C190

BID SET



LD ASPHALT PAVEMENT [040]

- FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY PROJECT SPECIFICATIONS.
ASPHALT SURFACE COURSE - APWA TYPE 3-01
ASPHALT BASE COURSE - APWA TYPE 2-01
- TYPE 3-01 SURFACE COURSE SHALL BE VIRGIN ASPHALT. RECYCLED MIXES MEETING APWA SPECIFICATIONS MAY BE CONSIDERED FOR BASE COURSE.
- PORTLAND CEMENT CONCRETE SHALL BE A KOMMB4K MIX AND SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200.
- HEAVY DUTY CONCRETE IS AN OPTIONAL PAVEMENT FOR DETAIL 041 HEAVY DUTY ASPHALT. WHEN PLANS SPECIFY DETAIL 042 NO ALTERNATES ARE ALLOWED.
- ON SITE CLAY SOILS SHALL BE STABILIZED WITH 5% PORTLAND CEMENT AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT

PAVING DETAILS

ASPHALT MILL AND OVERLAY NOTES:

PAVING SHALL BE IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2200 AS AMENDED BELOW.

MILLING FOR THE DRIVES AND PARKING LOTS SHALL BE COLD MILLED AS FOLLOWS:

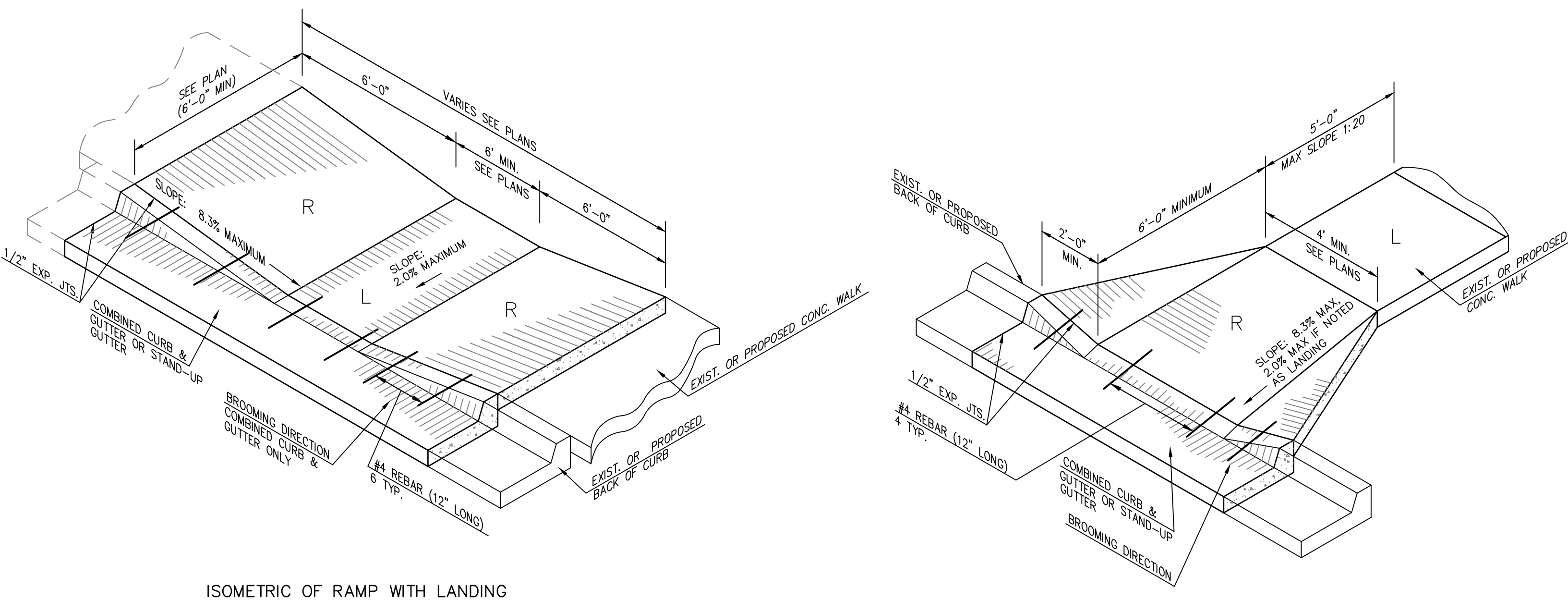
- EQUIPMENT: MILLING THE SURFACE OF PAVEMENTS SHALL BE COMPLETED BY USE OF A MILLING MACHINE CONFORMING TO THE FOLLOWING:
 - MACHINE: THE COLD MILLING MACHINE SHALL BE SELF-PROPELLED AND SHALL HAVE IN COMBINATION THE MEANS OF MILLING AND CUTTING, WITHOUT SOFTENING THE OLD SURFACE AND BLADING THE CUTTING INTO A SINGLE WINDROW, OR DEPOSITING THEM DIRECTLY INTO A TRUCK.
 - AIR POLLUTION: THE MACHINE SHALL BE EQUIPPED WITH A DUST SUPPRESSION SYSTEM INCLUDING WATER STORAGE TANKS AND HIGH PRESSURE SPRAY BARS.
 - OPERATING WIDTH: IT IS DESIRABLE THAT THE CUTTING WIDTH BE GREATER THAN 6 FEET (2 m). IN THE EVENT THE CUTTING WIDTH IS LESS THAN 6 FEET (2 m) CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADE CONTROL AS NOTED ON PLANS.
 - CUTTING DRUM: THE CUTTING DRUM SHALL BE TOTALLY ENCLOSED TO PREVENT DISCHARGE OF ANY LOOSENED MATERIAL ADJACENT TO WORK AREAS.
- CONSTRUCTION DETAILS
 - METHODS OF OPERATIONS FOR MILLING:
 - OPERATOR: THE MILLING MACHINE SHALL BE OPERATED BY AN EXPERIENCED AND CAPABLE OPERATOR.
 - UTILITIES: STREET SURFACES ADJACENT TO MANHOLE, WATER VALVES AND OTHER UTILITY EXTENSIONS, SHALL BE COMPLETELY REMOVED TO THE FULL DEPTH THE CUT SPECIFIED FOR THE STREET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
 - MATERIAL DISPOSAL: THE MATERIAL WITHDRAWN BY THE MACHINE SHALL BE REMOVED FROM THE SURFACE OF THE PAVEMENT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
 - SURFACE CONDITIONS: THE DRUM LACING PATTERNS SHALL PRODUCE A SMOOTH SURFACE AFTER MILLING WITH GROOVE DEPTHS NOT TO EXCEED 1/4 INCH (0.64 cm) AND GROOVE SPACING NOT TO EXCEED 1 INCH (2.54 cm) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - TYPES OF CUTS TO BE MADE BY MILLING:
 - LEVELING: SUFFICIENT PASSES SHALL BE MADE SUCH THAT ALL IRREGULARITIES OR HIGH SPOTS ARE ELIMINATED, AND THAT 100% OF THE SURFACE IS MILLED.
 - AVERAGE DEPTH: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH OVER THE ENTIRE STREET SECTION. THESE DEPTHS WILL BE DESIGNATED ON THE PLANS.
 - CURB CUT: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH AT THE CURB FOR A SPECIFIED WIDTH. THE DEPTH AT THE WIDTH FURTHEST FROM THE CURB IS 0. THESE DIMENSIONS WILL BE DESIGNATED ON THE PLANS.
 - CLEANUP: ALL LOOSE ASPHALT AND DEBRIS SHALL BE REMOVED FROM THE STREET SURFACE AND CURB AND GUTTER. ANY MATERIAL AND DEBRIS THAT ADHERES TO THE CURB AND GUTTER SHALL BE REMOVED.

CRACKS: AFTER SURFACE MILLING DETERIORATED (FATIGUE CRACKED OR RAVELED) BLOCK CRACKS AND TRANSVERSE CRACKS THAT HAVE A WIDTH GREATER THAN 1.5-INCHES SHALL BE MILLED OR MECHANICALLY ROUTED OUT TO A MINIMUM DEPTH OF 2-INCHES AND PATCHED WITH A HOT MIX ASPHALT PRIOR TO OVERLAY. UNDERDATERATED PAVEMENT CRACKS WITH WIDTHS BETWEEN 1.5-INCHES AND 0.25-INCHES WIDE SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO FILLING WITH AN APPROVED CRACK SEALING MATERIAL SUCH AS CRAFCO ROADSAVER 514, 515, PARKING LOT SEALANT TYPE 1 OR APPROVED EQUAL.

AREAS OF THE PAVEMENT REQUIRING PATCHING WILL BE DESIGNATED ON THE PLANS OR MARKED BY THE ENGINEER AFTER COMPLETION OF MILLING OPERATIONS FOR THE SECTION OF PAVEMENT UNDER CONSTRUCTION. THE DETERIORATED PAVEMENT WILL BE REMOVED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE SUBGRADE SHALL BE ADJUSTED TO PERMIT THE THICKNESS OF ASPHALT INDICATED ON THE PLANS. THE SUBGRADE SHALL CONSIST OF AB-3/ModOT TYPES AGGREGATE AND SHALL BE UNIFORMLY COMPACTED BY HAND TAMING OR ROLLING. REFERENCE PAVING DETAILS FOR BITUMINOUS MIX FOR PATCHING. AT THE TIME OF PLACING ASPHALT THE EDGE OF THE AREA TO BE PATCHED WITH SS-1H EMULSIONED ASPHALT OR APPROVED EQUAL. THE ASPHALT IN THE PATCH SHALL BE PLACED IN TWO EQUAL LIFTS WITH EACH LIFT THOROUGHLY COMPACTED PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.

CONSTRUCTION OF THE OVERLAY WILL BE PERFORMED IN ACCORDANCE WITH APWA SPECIFICATIONS:

- MEASURED DENSITY OF THE COMPLETED OVERLAY SHALL HAVE A COMPACTED DENSITY OF 92% TO 97% OF THE DAILY THEORETICAL MAXIMUM SPECIFIC GRAVITY (GMM) OF THE MIX SUPPLIED TO THE PROJECT.
- AREAS OF THE PAVEMENT SURFACE ON THE DRIVES AND PARKING LOTS THAT ARE SHOWN TO HAVE SEGREGATION UPON COMPLETION OF FINAL ROLLING SHALL RECEIVE AN ADDITIONAL SURFACE TREATMENT TO CLOSE THE SURFACE VOIDS. THE SURFACE TREATMENT SHALL CONSIST OF MANUFACTURED SAND COATED WITH SS-1H EMULSION WORKED INTO THE SURFACE VOIDS TO YIELD A UNIFORM APPEARING SURFACE.
- SEE DETAIL 040/041 FOR SURFACE MIX.



ISOMETRIC OF RAMP WITH LANDING

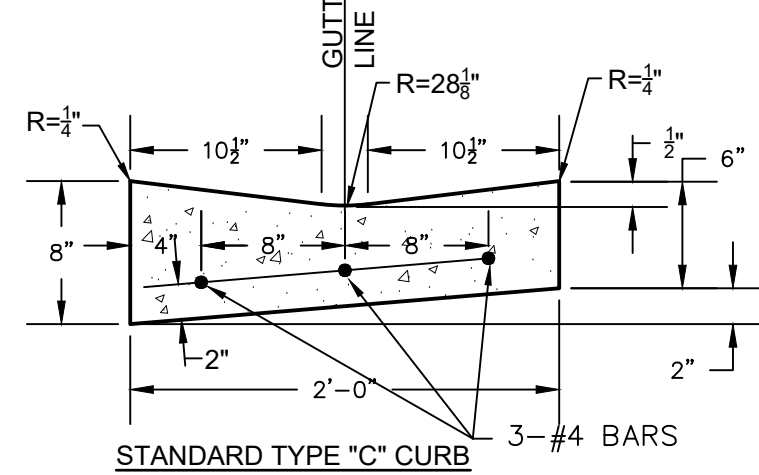
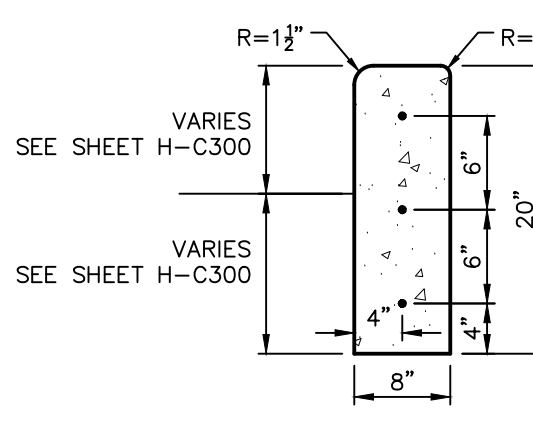
ISOMETRIC OF RAMP WITH PERPENDICULAR WALK SHOWN

CONCRETE AND SIDEWALK NOTES:

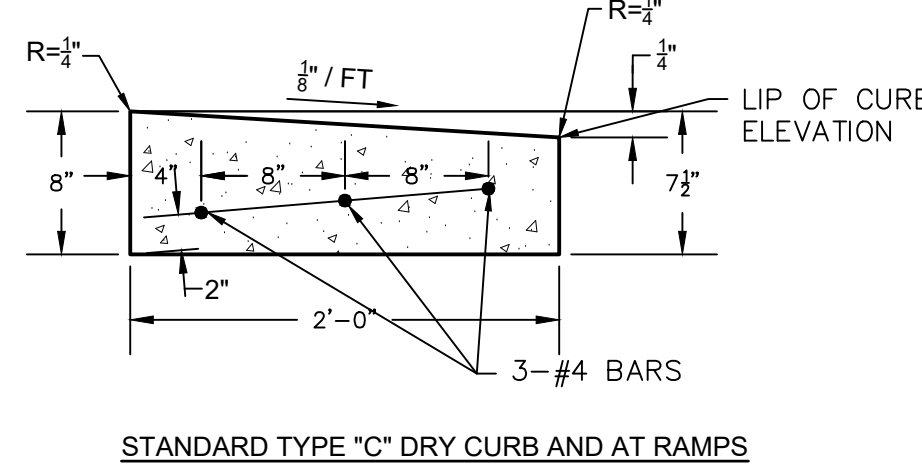
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AND COMPLY WITH KOMMB SPECIFICATIONS. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APWA SECTION 2200.
- REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED AND COMPLY WITH ASTM A615. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
- SIDEWALKS TO BE BROOM FINISHED.
- SUBGRADE TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.
- SIDEWALK JOINTS MAY BE SAWN UNLESS SHOWN OTHERWISE ON ARCHITECT/LANDSCAPE ARCHITECT PLANS.

SIDEWALK RAMPS [060]

STRAIGHT CURB [003]



STANDARD TYPE "C" CURB



STANDARD TYPE "C" DRY CURB AND AT RAMPS

ZERO HEIGHT CURB [002]

*GUTTER DEPTH MAY VARY TO IMPROVE DRAINAGE

FULL HEIGHT CURB [001]

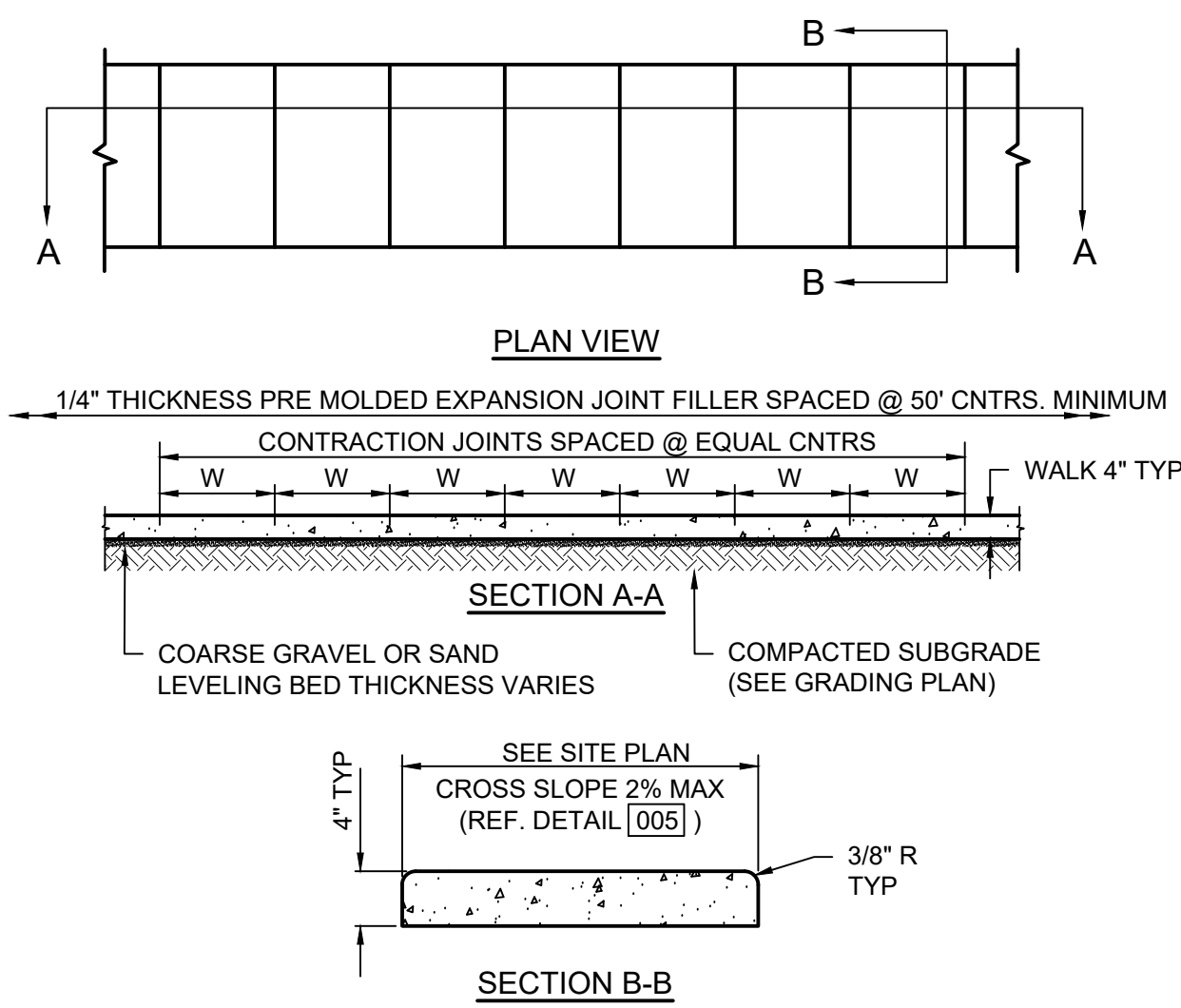
*GUTTER DEPTH MAY VARY TO IMPROVE DRAINAGE

CURB & GUTTER NOTES:

- 2" PREMOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB INLETS AND AT 250' CENTERS. THE EXPANSION JOINTS SHALL BE DOWELED IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTION JOINTS SHALL BE 2" DEEP AND PLACED AT 15' INTERVALS EQUALLY SPACED BETWEEN EXPANSION JOINTS.
- ALL CONCRETE USED IN THIS WORK SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. KOMMB4K CONCRETE SHALL BE USED THROUGHOUT.
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- SEE SIDEWALK RAMP DETAILS FOR TYPICAL SIDEWALK RAMP CURB & GUTTER SECTIONS.
- DETAILS AS SHOWN FOR CONCRETE AND ASPHALT PAVING. WHEN USED WITH CONCRETE PAVING POURED MONOLITHICALLY WITH CURB NO MODIFICATIONS ARE REQUIRED. WHEN CURB AND CONCRETE PAVING ARE TO BE POURED SEPARATELY #4 BARS, 24" LONG ARE TO BE PROVIDED TO TIE CURB TOGETHER WITH CONCRETE PAVING.
- ALL REINFORCING SHALL BE 60 GRADE 60 DEFORMED BARS AND COMPLY WITH ASTM A615.
- CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.

CURB & GUTTER

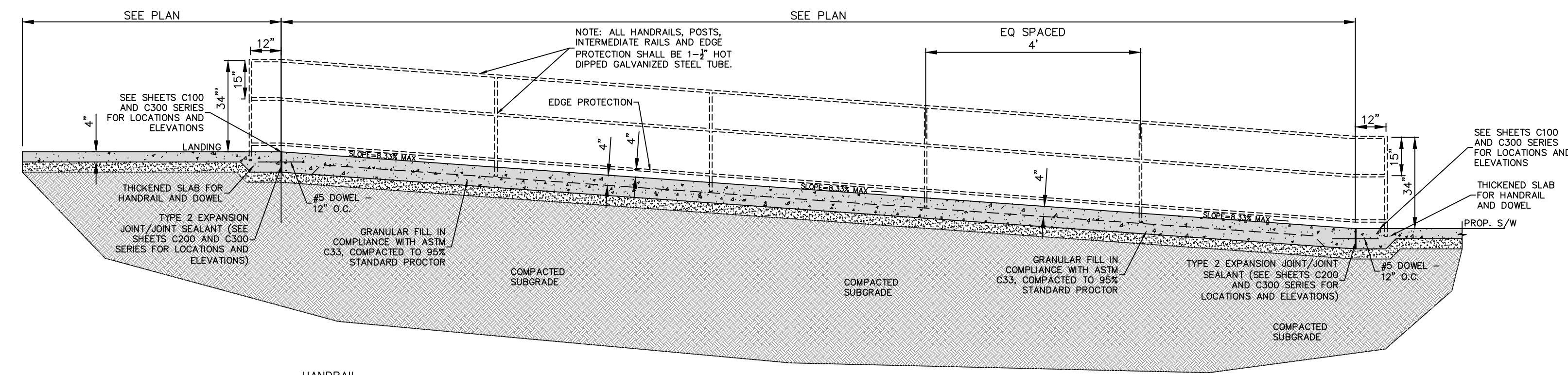
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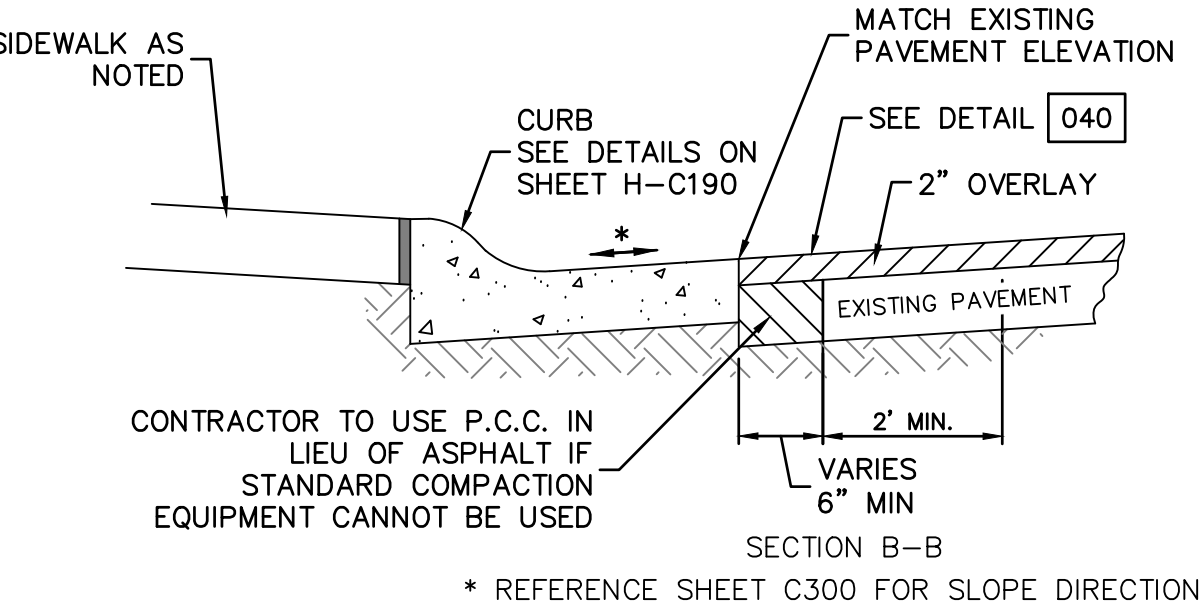
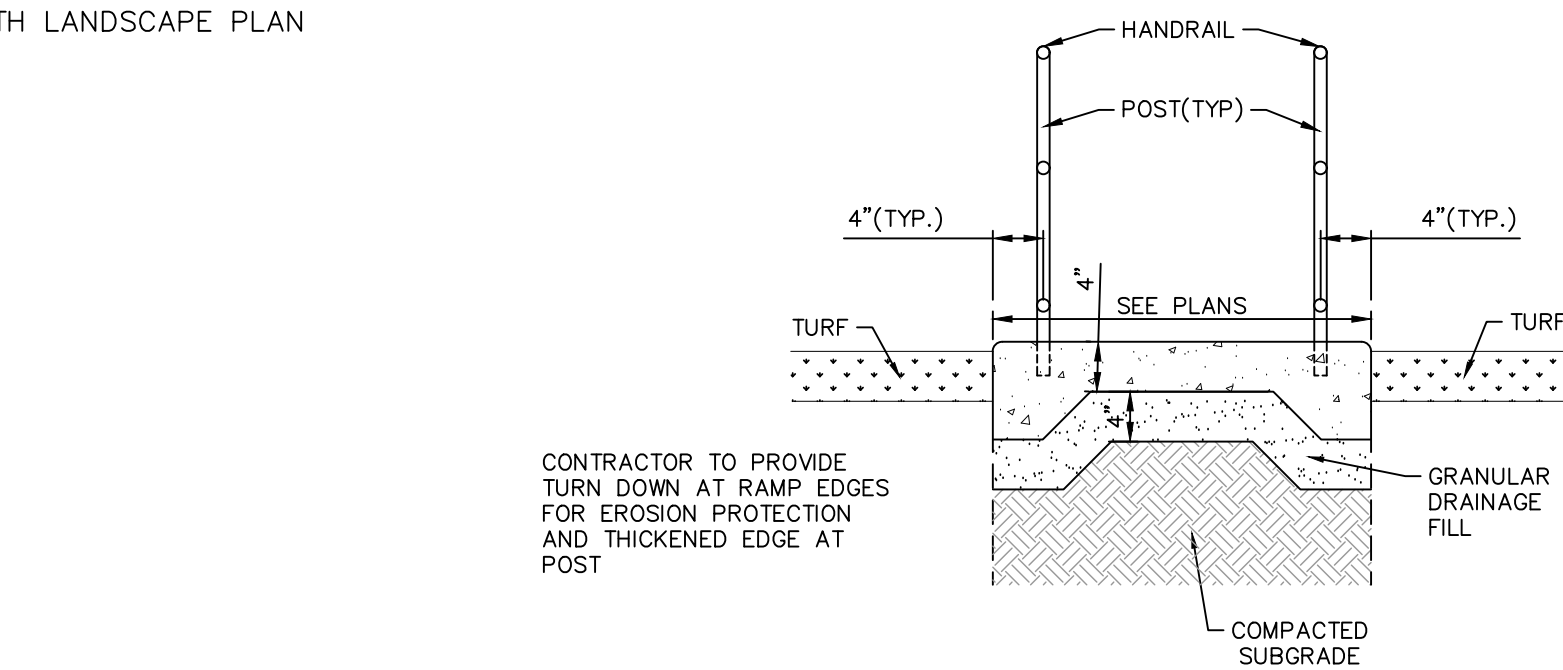
CONCRETE SIDEWALK [055]

NOTE:

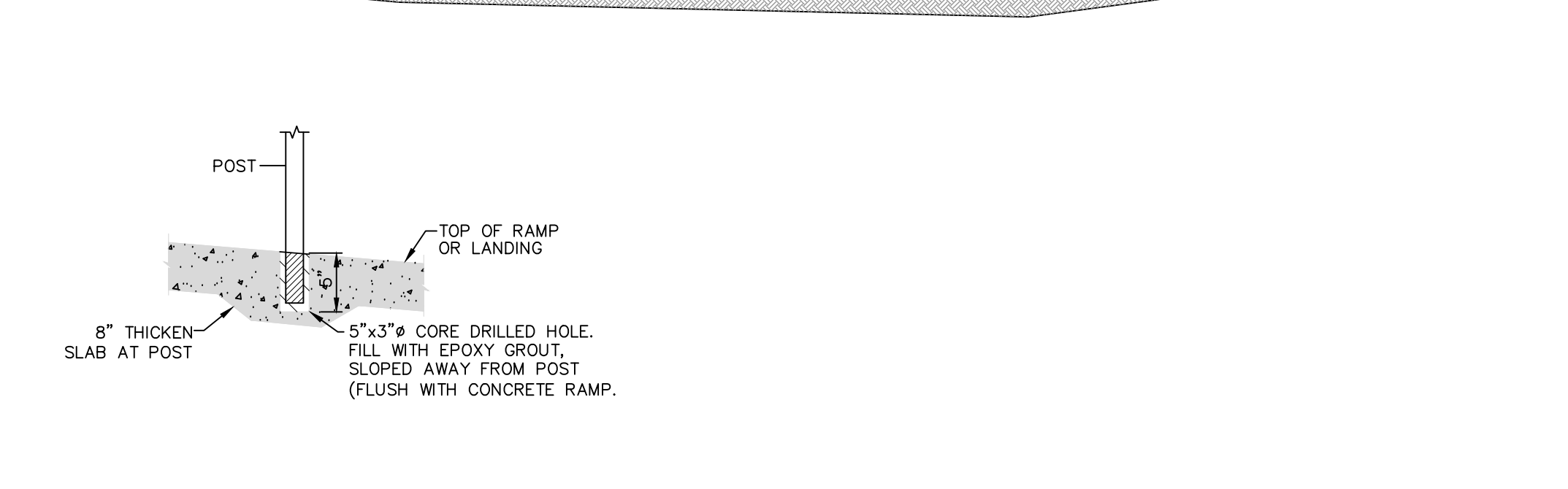
- CONTRACTOR SHALL BACKFILL SIDEWALKS WITH TOPSOIL AND SEED/SOD IN ACCORDANCE WITH LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.



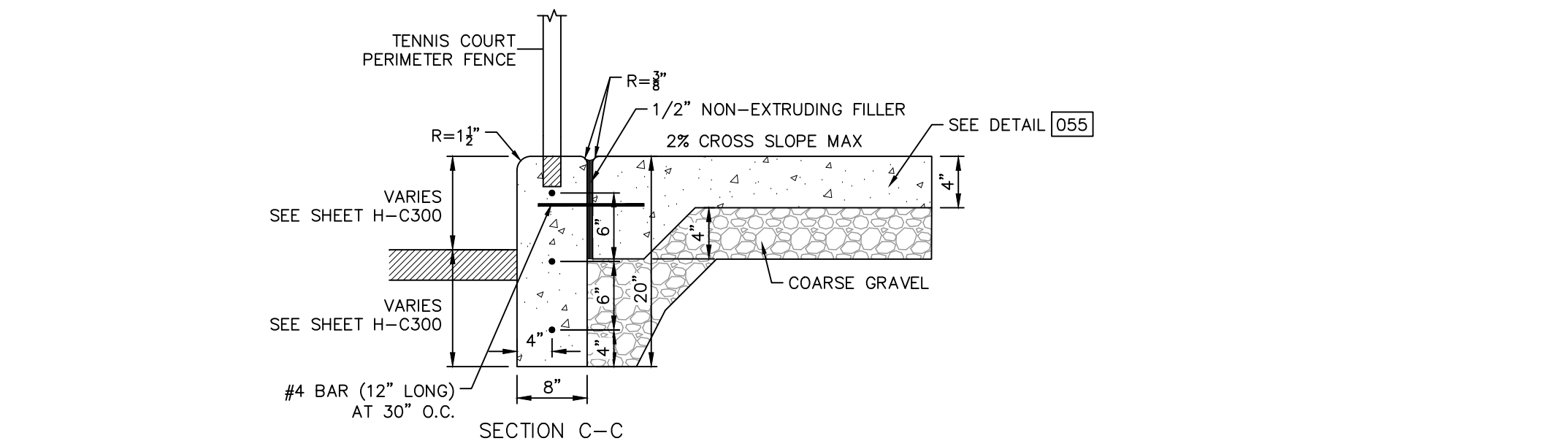
CONCRETE RAMP DETAIL [056]



* REFERENCE SHEET C300 FOR SLOPE DIRECTION



CONCRETE RAMP DETAIL [056]



CONCRETE RAMP DETAIL [056]

CONCRETE RAMP DETAIL [056]

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CONCRETE RAMP DETAIL [056]

EDGE MILL AND OVERLAY [030]

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lv@kvang.com | www.kvang.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF
AUTHORITY # 000842. EXPIRES 12/31/21

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
1801 Main St
Kansas City, MO 64108
816.663.8700

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AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR
CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

| Number | DESCRIPTION | DATE |
|--------|-------------|------|
| | | |

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

**EROSION CONTROL
DETAILS**

H-C195

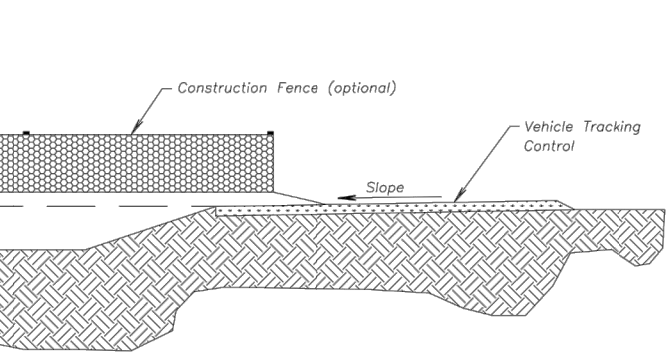
BID SET

Notes for Concrete Washout:

- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout areas shall include a fast substrate all depth relative to the amount of concrete to be placed on site. The slope should be at least 1:10. The concrete washout area shall be placed so that the concrete washout area is at least 1:10.
- Washout areas shall be placed at the corner point to all concrete washout areas.
- Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to prevent concrete trucks and pumps from entering.
- A concrete washout area may be required along the bottom and side of the substrate pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- Concrete washout areas shall be cleaned as necessary to maintain capacity for washed concrete.
- Concrete washout areas, washed places of concrete and all other debris on the substrate pit shall be conveyed from the pit into a water-tight container and disposed of properly.
- Concrete washout areas shall remain in place until all concrete for the project is placed.
- When concrete washout areas are removed, excavation shall be filled with suitable compacted backfill and leveled. Any disturbed areas associated with the installation, maintenance, repair or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

| | |
|--|---|
| AMERICAN PUBLIC WORKS ASSOCIATION | |
| APWA | KANSAS CITY METRO CHAPTER |
| CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT | STANDARD DRAWING NUMBER ESC-01 ADOPTED 10/24/2016 |

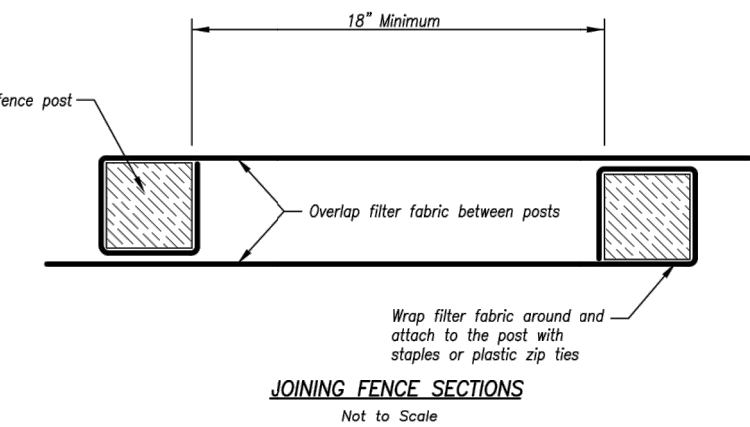
Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

Notes:

- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- Long perimeter runs of silt fence must be limited to 100' runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- Attach fabric to upstream side of post.
- Install posts a minimum of 2' into the ground.
- Trenching will only be allowed for small or difficult installation, where silt fence cannot be reasonably used.

Maintenance:

- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
- Repair as necessary to maintain function and structure.

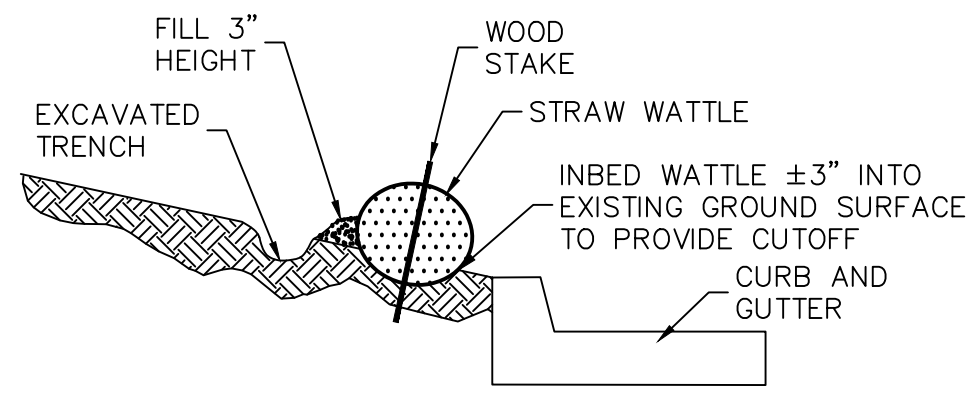


| | |
|-----------------------------------|---|
| AMERICAN PUBLIC WORKS ASSOCIATION | |
| APWA | KANSAS CITY METRO CHAPTER |
| SILT FENCE | STANDARD DRAWING NUMBER ESC-03 ADOPTED 10/24/2016 |

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

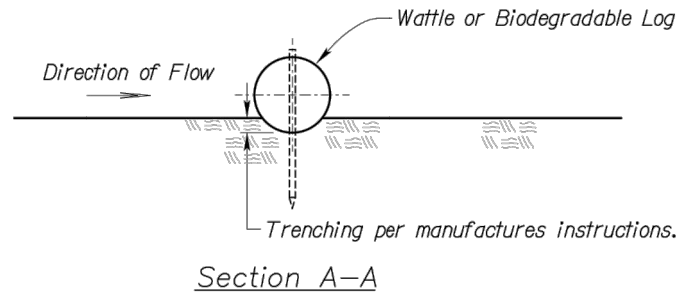
NOTES:

- CONTRACTOR TO COORDINATE ACTUAL LIMITS WITH CM'S SITE LOGISTICS PLAN. AT MINIMUM A 20'x50' SECTION SHALL BE PROVIDED AT ALL CONSTRUCTION ACCESS POINTS FORM EXISTING PAVING.
- CONTRACTOR SHALL VERIFY GRADE OF STAGING AND LAYDOWN PAD PRIOR TO PAVING. CONTRACTOR IS RESPONSIBLE TO PLACE ADDITIONAL CRUSHED STONE AS REQUIRED TO ACHIEVE SUBGRADE ELEVATIONS.

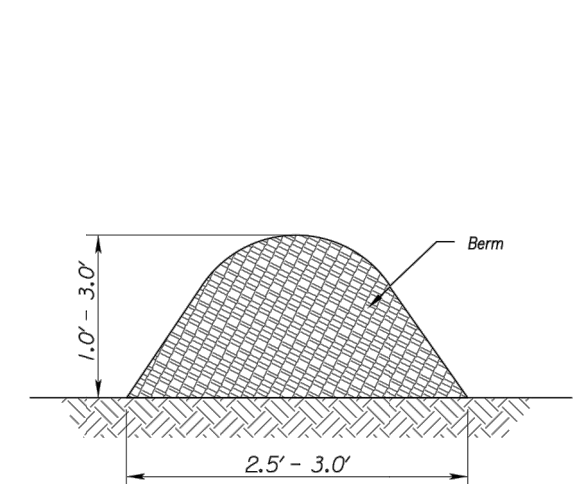


STRAW WATTLE DETAIL

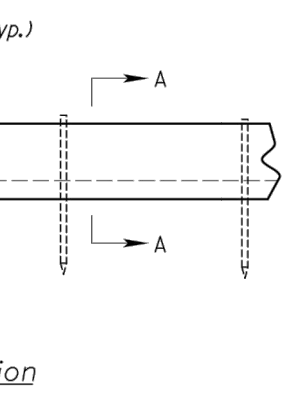
830



WATTLES AND BIODEGRADABLE LOG



MULCH OR COMPOST FILTER BERMS



Notes for Wattles and Biodegradable Log Slope Protection:

- The Slope barriers shall be placed along contour lines, with a three foot section turned uphill at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends must be to be staggered.
- Install wattles and biodegradable logs per manufacturer's instructions.
- Spacing of stakes per manufacturer's instructions with 4' max spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with maximum of 24".

Notes for Mulch and Compost Filter Berm:

- The sediment control berm shall be placed unobstructed in a window of locations shown on the plans or as directed by the engineer.
- Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
- If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
- Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
- Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, two grinder or other approved method. Mulch along with a maximum width of 2" and a maximum length of 10".

Maintenance for Mulch and Compost Filter Berm:

- Berm shall be reshaped and material added as necessary to maintain function and structure.
- Brushes in the berm shall be repaired promptly.

| | |
|---|---|
| AMERICAN PUBLIC WORKS ASSOCIATION | |
| APWA | KANSAS CITY METRO CHAPTER |
| WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM | STANDARD DRAWING NUMBER ESC-04 ADOPTED 10/24/2016 |

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

TEMPORARY SEEDING

APPLY SEED IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2153.5 A TRHU D.

SEEDING AND SODDING:

DISTURBED AREAS ARE TO BE SEED OR SODDED (AS NOTED ON PLANS) WITH TALL TURF TYPE FESCUE. SEEDING AND SODDING SHALL BE COMPLETED IN ACCORDANCE WITH THE APWA TECHNICAL SPECIFICATION SECTIONS 2401 AND 2402, RESPECTIVELY. SOD SHALL BE WATERED IMMEDIATELY AND WATERED TWICE A DAY FOR A MINIMUM OF 21 DAYS.

PREPARATION OF THE SEED BED

REMAINING AREAS SHALL BE SEEDDED, THE AREA TO BE SEEDDED SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST THREE (3) INCHES BY DISING, HARROWING OR OTHER APPROVED METHODS UNTIL THE SOIL IS WELL PULVERIZED. AFTER COMPLETION OF THE TILLING OPERATION, THE SURFACE SHALL BE CLEARED OF ALL STONES, STUMPS, OR OTHER OBJECTS LARGER THAN 1-1/2 INCHES IN DIAMETER, AND OF ROOTS, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT MIGHT HINDER MAINTENANCE OPERATIONS.

PLACEMENT OF SEED

SEEDING MAY BE ACCOMPLISHED BY HYDRAULIC TYPE SEEDERS OR BROADCAST-TYPE SEEDERS. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR OTHERWISE COVERED WITH SOIL TO A DEPTH OF AT LEAST ONE-QUARTER (1/4) INCH AND ROLLED TO OBTAIN A FIRM SEED BED. WATER SHALL BE APPLIED WHEN NECESSARY. SEEDDED AREAS SHALL BE COMPACTED AND MULCHED IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2401.3 D & E.

SEEDING ON ALL SLOPES 4:1 OR STEEPER SHALL BE PROTECTED WITH A SHORT TERM DEGRADABLE EROSION CONTROL BLANKET CONSISTING OF SINGLE NET AND STRAW BLANKET. BLANKET SHALL BE SECURED TO SURFACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS. REFERENCE: APWA SECTION 2401.4. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

| | | |
|--|----------------------|---|
| PROJ. NO. C20-0496 CFN: 04960ET.DWG | DSK: DWN DWN: NJN | DAVID D. WOOD ENGINEER MO # 2011037427 14700 WEST 114TH TERRACE LENEXA, KANSAS 66215 PH. (913) 894-5150 FAX (913) 894-5977 lv@kveg.com www.kveg.com |
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CONTRACTOR STAGING AND LAYDOWN

ESC-01

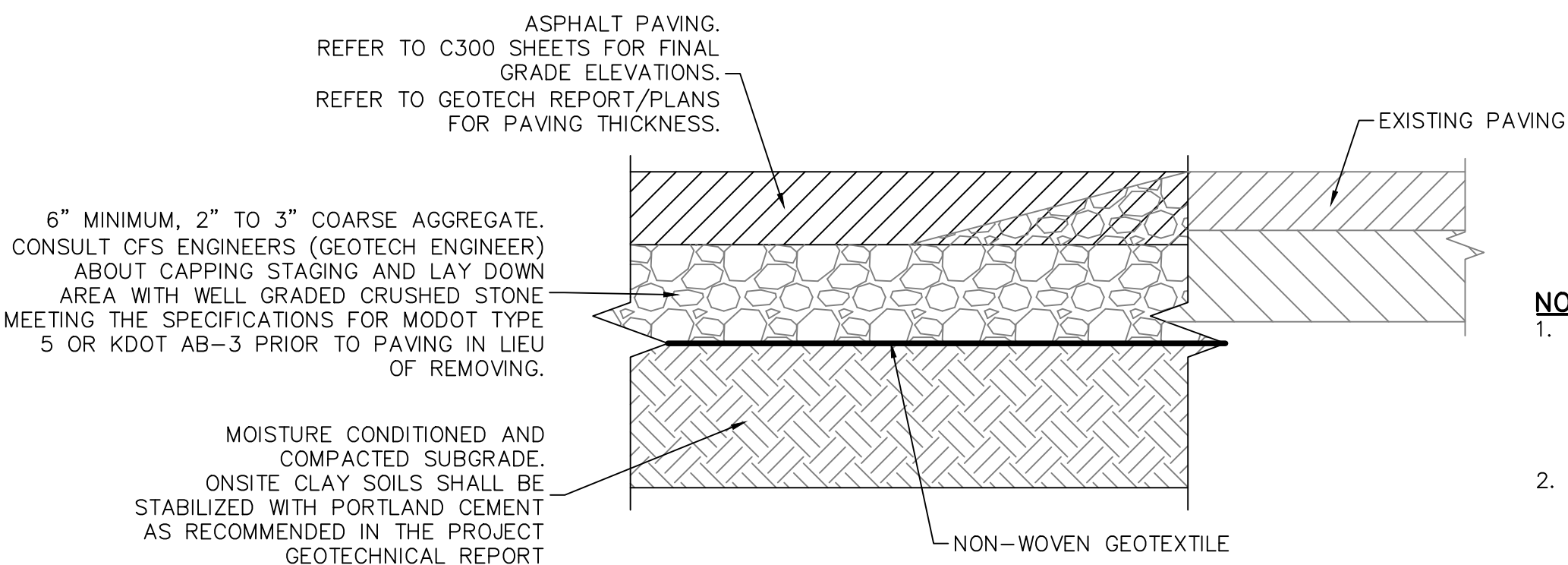
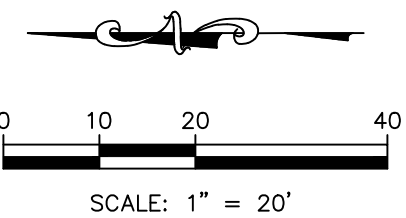




Figure 1 is a plan view diagram of a proposed finished ground contour. The diagram shows a cross-section of a site with various features. At the top, a horizontal line represents the 'EXISTING GROUND CONTOUR (1' INTERVALS)' with a vertical scale bar labeled '1218'. Below this, a dashed line represents the 'PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)'. Further down, a line with 'X' marks represents the 'INLET PROTECTION (ESC-06 & ESC-07)'. Below that, a line with 'X' marks represents the 'SEDIMENTATION FENCE (ESC-03)'. A horizontal line represents the 'LIMITS OF DISTURBANCE'. Below this, a hatched area represents the 'WATTLE/BIODEGRADABLE LOG (ESC-04)'. Below that, a series of circles represents the 'GRAVEL FILTER BAGS'. At the bottom, a rectangular area labeled '(CW)' represents the 'CONCRETE WASH AREA'.



CAUTION!!
GAS LINE TO REMAIN UNTIL
REROUTED BY JE DUNN AS PART
OF LSHS ADDITION PROJECT

SANITARY MANHOLE #8182
4'Ø CONCRETE
RIM = 1026.60 -
IN (SE) = 1022.63 (8" VCP)
OUT (W) = 1022.57 (8" VCP)

PROJ. NO. C20_0496 DSN: DDW DAVID D. WOOD
CFN: 0496DEM0.DWG DWN: NJN ENGINEER
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Lee's Summit R7 District
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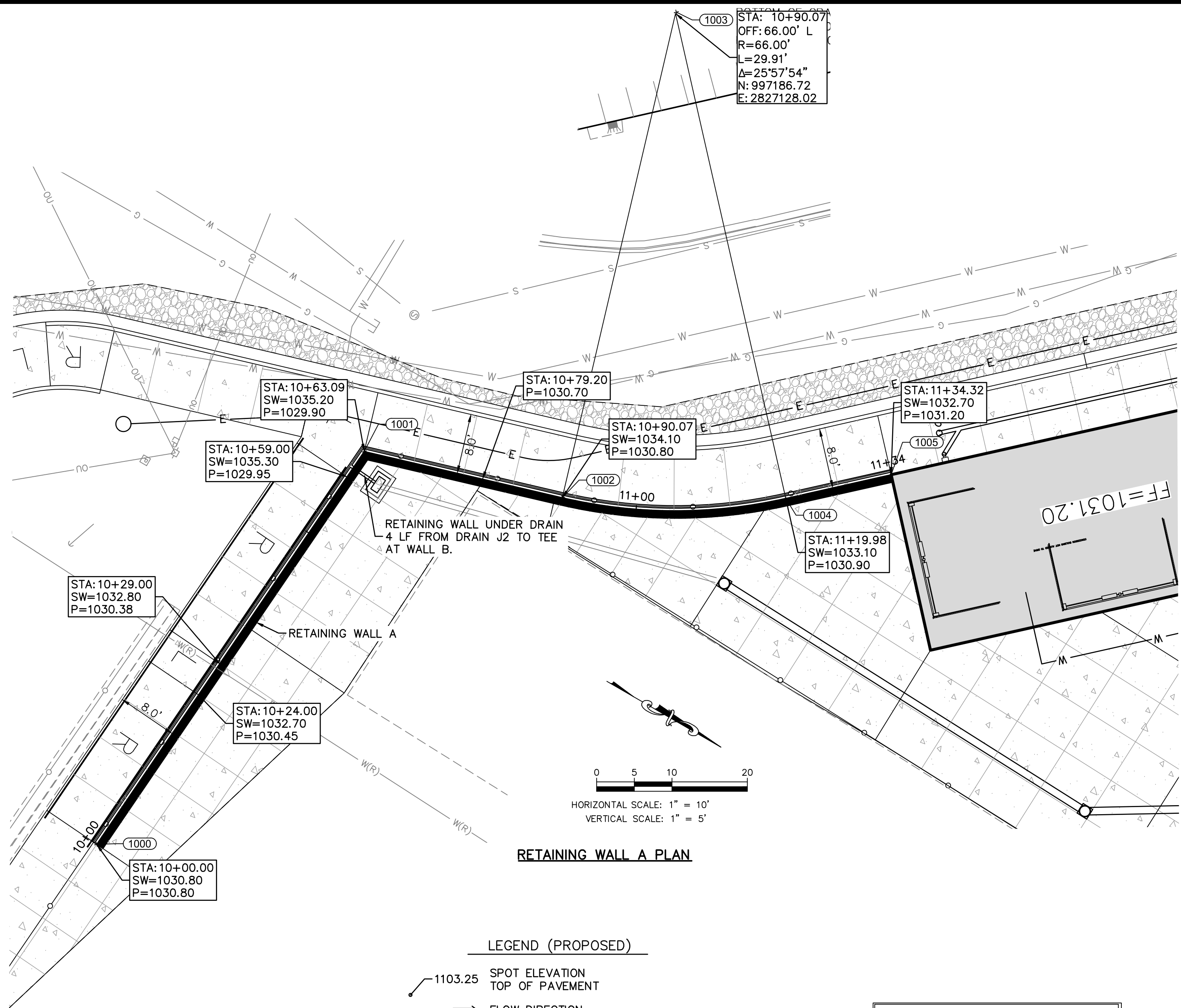
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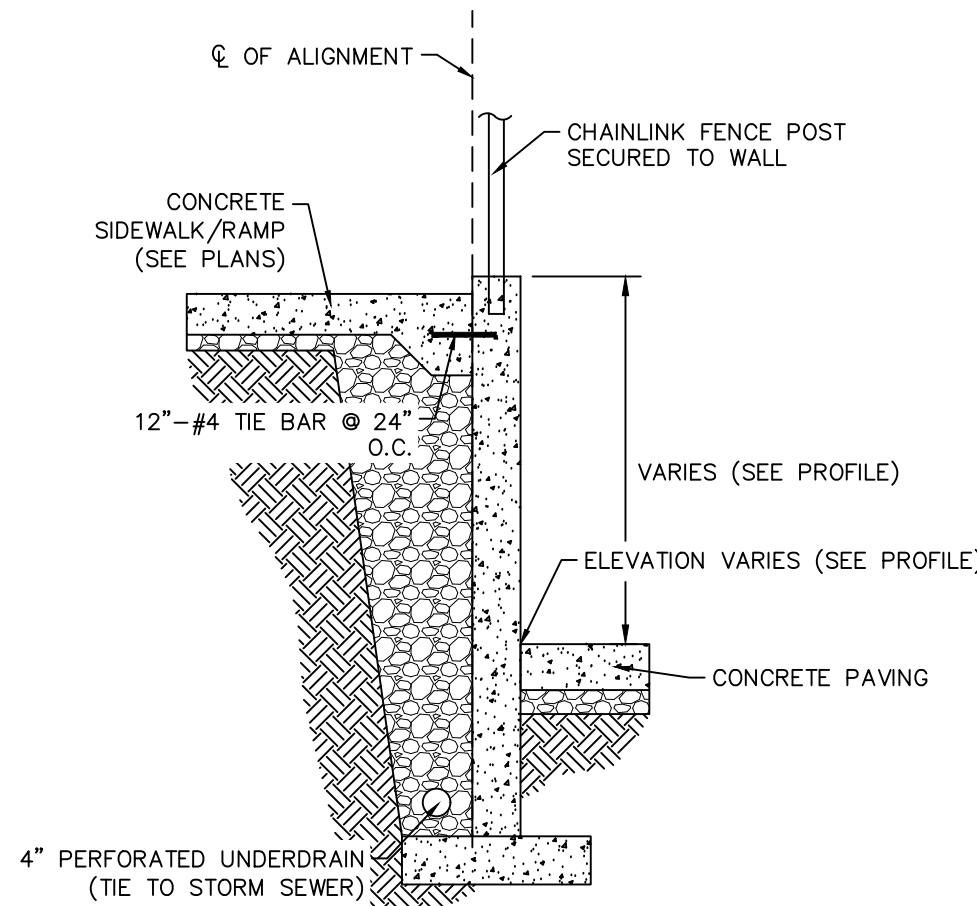
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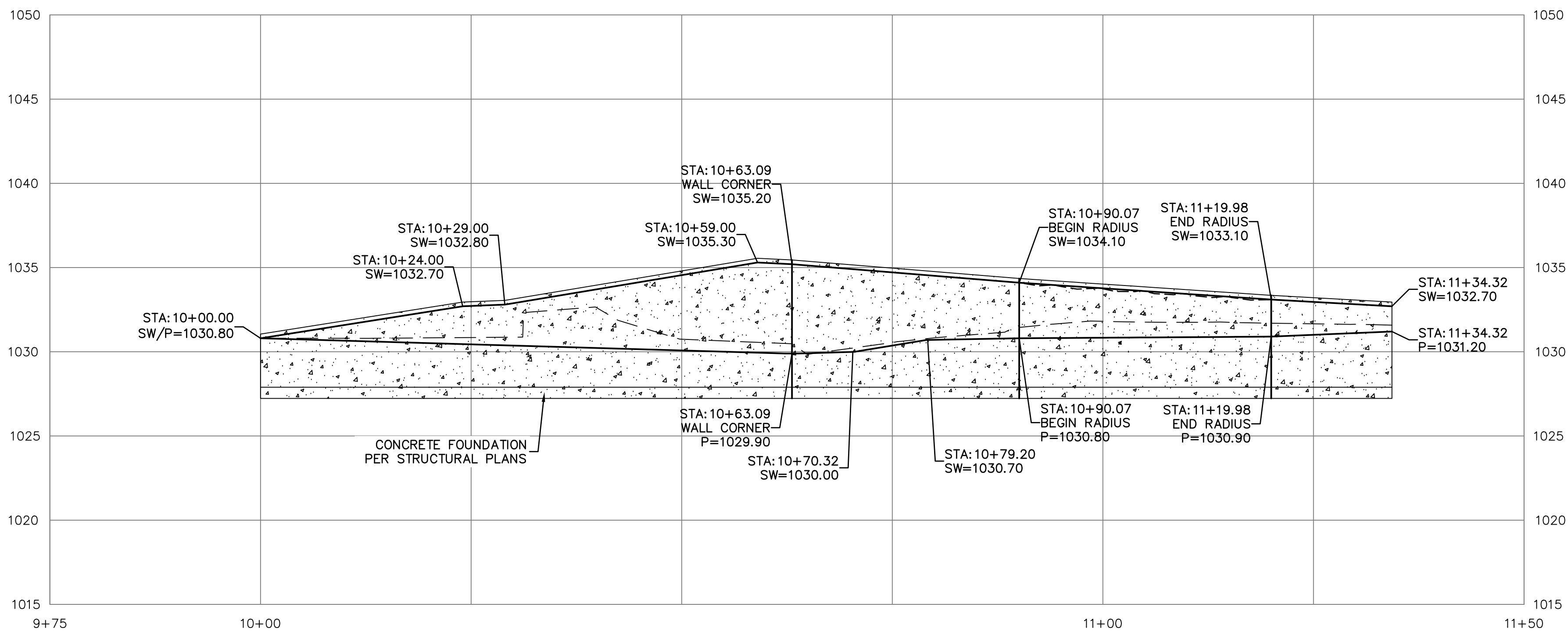


- LEGEND (PROPOSED)
- 1103.25 SPOT ELEVATION TOP OF PAVEMENT
 - ⇒ FLOW DIRECTION
 - 1104 FINISHED 1' CONTOUR INTERVALS
 - FW FACE OF WALL GROUND ELEVATION
 - MS MOW STRIP ELEVATION AT TOP OF WALL
 - SW SIDEWALK ELEVATION
 - TC TOP OF CURB ELEVATION
 - P PAVEMENT ELEVATION
 - HP HIGH POINT

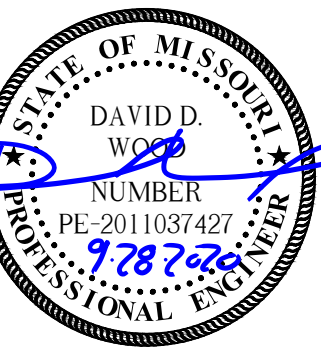
| COORDINATE TABLE | | | |
|------------------|-----------|------------|-------------|
| | NORTHING | EASTING | DESCRIPTION |
| 1000 | 997175.34 | 2827261.92 | WALL A |
| 1001 | 997180.01 | 2827199.01 | WALL A |
| 1002 | 997205.84 | 2827191.19 | WALL A |
| 1003 | 997186.72 | 2827127.81 | WALL B |
| 1004 | 997231.57 | 2827176.44 | WALL B |
| 1005 | 997242.10 | 2827166.72 | WALL B |



TYPICAL WALL SECTION
SEE STRUCTURAL PLANS



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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

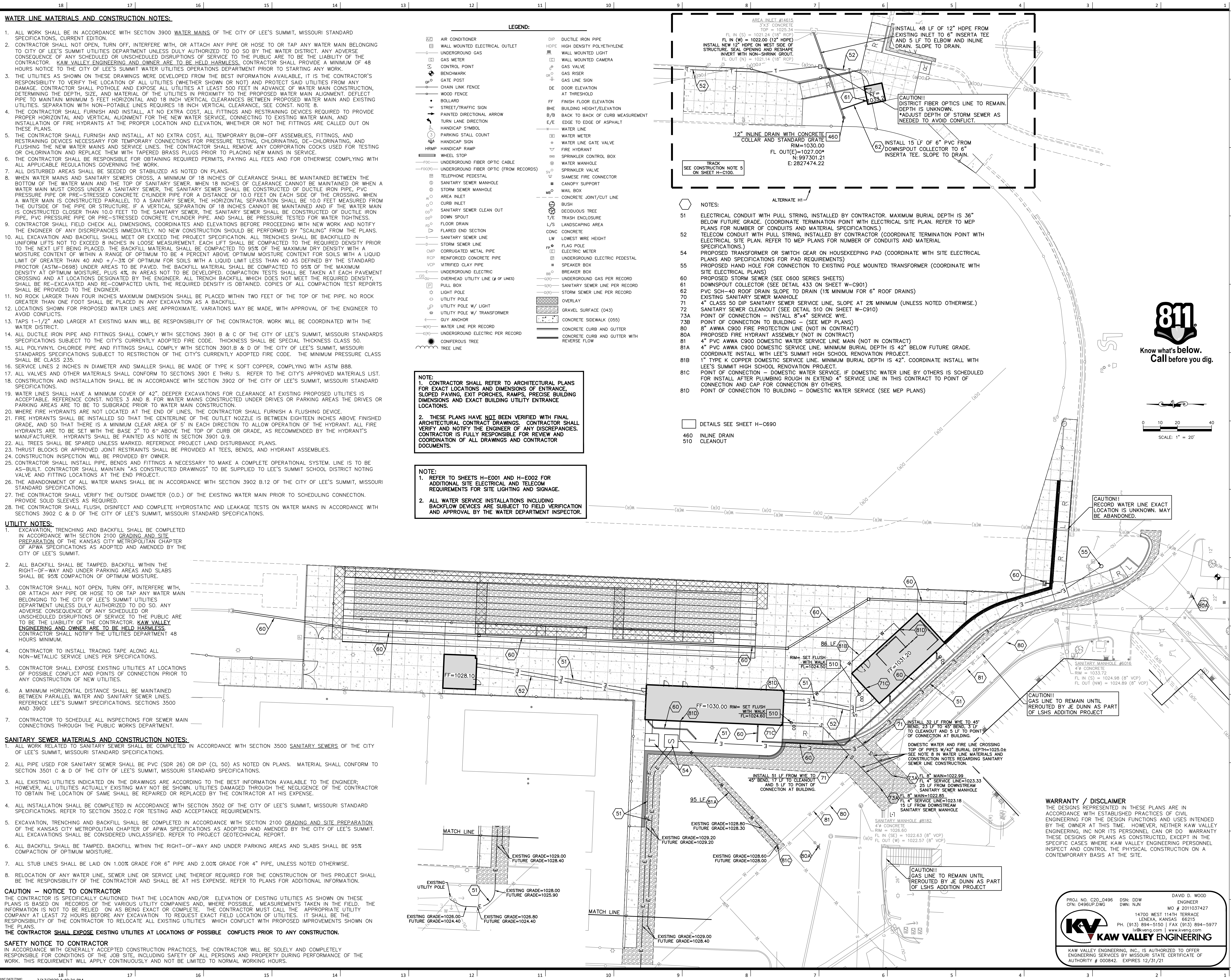
RETAINING WALL
PLAN AND PROFILE

H-C350

BID SET

PROJ. NO. C20_0496 DSN: DDW DAVID D. WOOD
CFN: 0496WALL.DWG DWN: NJN ENGINEER
MO # 2011037427
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
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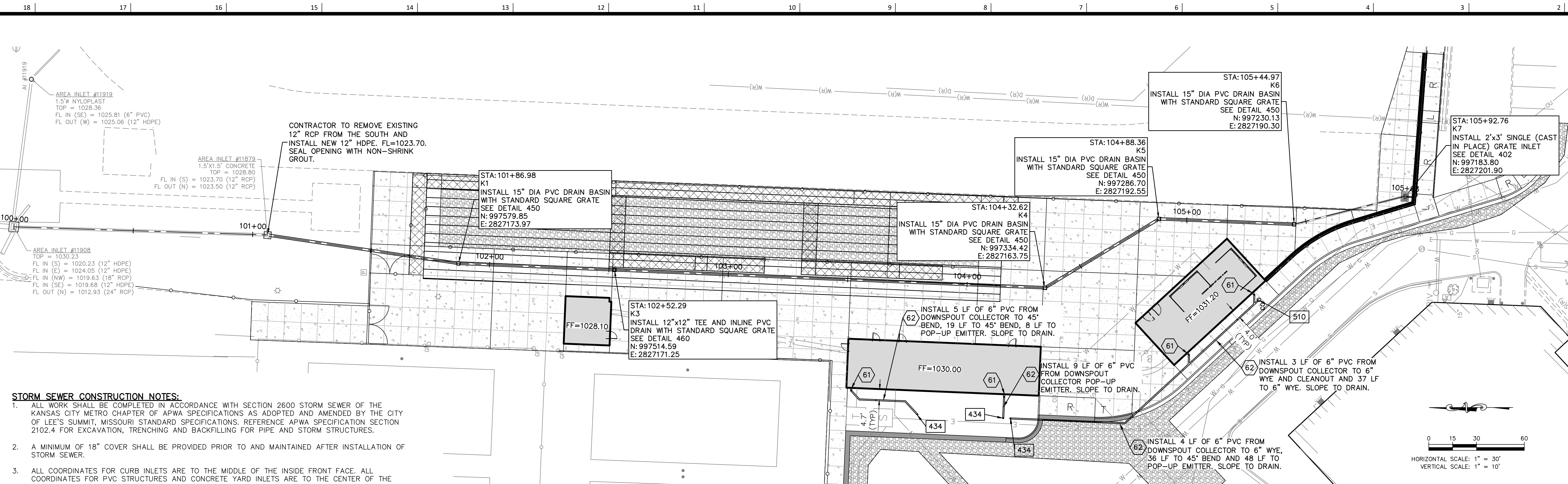
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Kansas City, MO 64108
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STORM SEWER CONSTRUCTION NOTES:

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2600 STORM SEWER OF THE KANSAS CITY METRO CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS. REFERENCE APWA SPECIFICATION SECTION 2102.4 FOR EXCAVATION, TRENCHING AND BACKFILLING FOR PIPE AND STORM STRUCTURES.
- A MINIMUM OF 18" COVER SHALL BE PROVIDED PRIOR TO AND MAINTAINED AFTER INSTALLATION OF STORM SEWER.
- ALL COORDINATES FOR CURB INLETS ARE TO THE MIDDLE OF THE INSIDE FRONT FACE. ALL COORDINATES FOR PVC STRUCTURES AND CONCRETE YARD INLETS ARE TO THE CENTER OF THE STRUCTURE.
- ALL JUNCTION BOXES/AREA INLETS HAVE ONE COORDINATE PROVIDED AT THE CENTER OF STRUCTURE. SEE PLAN FOR CLARIFICATION. ORIENT STRUCTURES PARALLEL TO ADJACENT CURB, BUILDING OR WALL FACE, UNLESS NOTED OTHERWISE.
- RIM ELEVATION IS PROVIDED AT COORDINATE, UNLESS NOTED OTHERWISE. CONTRACTOR TO ADJUST ELEVATION OF RIM AS REQUIRED TO MATCH SLOPE OF ADJACENT CURB LINE. REFER TO GRADING PLAN (C300 SERIES SHEETS).
- ALL EXISTING UTILITIES INDICATED ON THE DRAWING ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER, HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
- ALL BACKFILL SHALL BE COMPACTED TO 95 PERCENT STANDARD DENSITY AT OPTIMUM MOISTURE.
- ALL EXCAVATION BENEATH THE STREETS AND PARKING LOTS FOR DRAINAGE PIPE LESS THAN 4'-0" IN DIAMETER SHALL BE BACKFILLED WITH AGGREGATE TO FOUR FEET (4') PAST BACK OF CURB IN ACCORDANCE WITH APWA SPECIFICATIONS SECTION 2102.4J.
- RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT THEIR EXPENSE.
- IF PRECAST STORM STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
- ALL HDPE PIPE JOINTS SHALL BE WATER TIGHT.

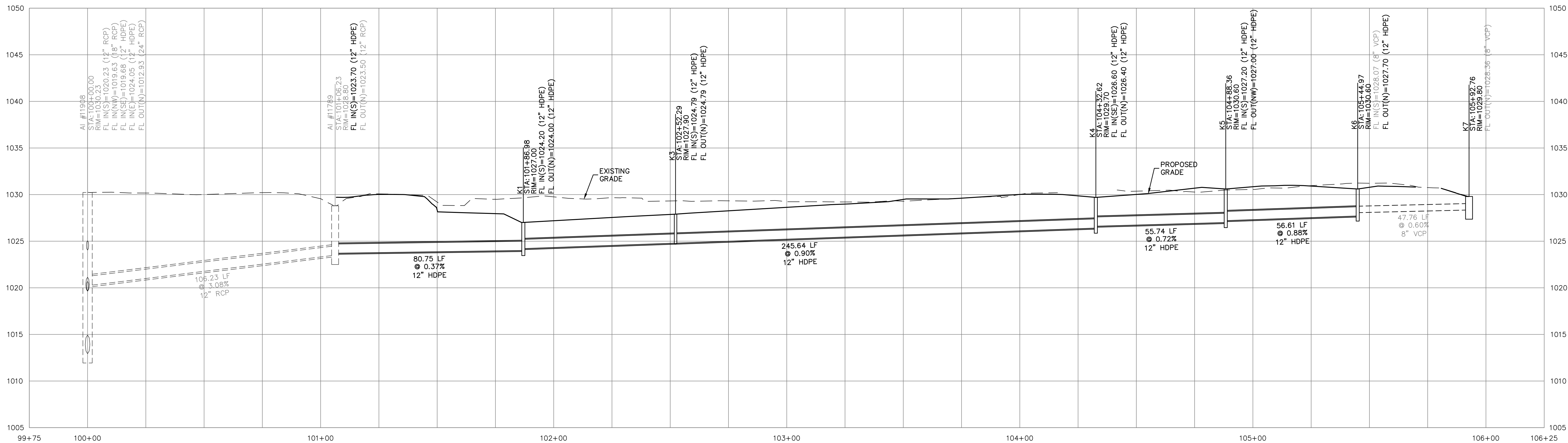
PRIVATE STORM SEWER LINE K PLAN

DETAILS SEE SHEET C690 AND C691

- 402 SINGLE GRATE INLET
- 433 DOWNSPOUT COLLECTOR
- 434 POP-UP EMITTER
- 450 PVC DRAIN BASIN - CONTRACTOR TO ORDER INLETS ONE FOOT TALLER THAN PLAN ELEVATION SO INLET CAN BE FIELD ADJUSTED
- 460 INLINE DRAIN
- 510 CLEANOUT

NOTES

- 61 DOWNSPOUT COLLECTOR (SEE DETAIL 433 ON SHEET W-C901)
- 62 PVC SCH-40 ROOF DRAIN SLOPE TO DRAIN (1% MINIMUM FOR 6" ROOF DRAINS)



PRIVATE STORM SEWER LINE K PROFILE

SAFETY NOTICE TO CONTRACTOR

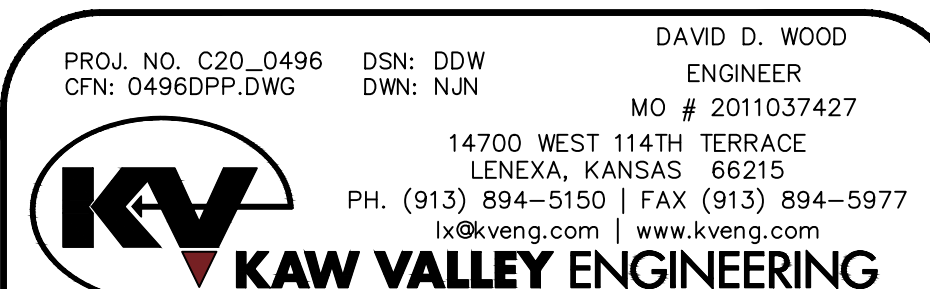
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

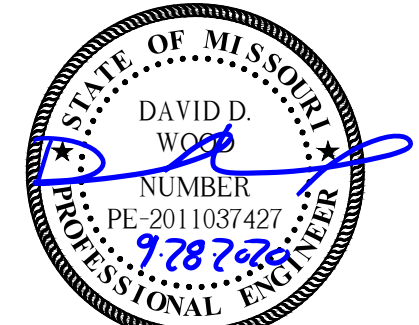
CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.



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Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

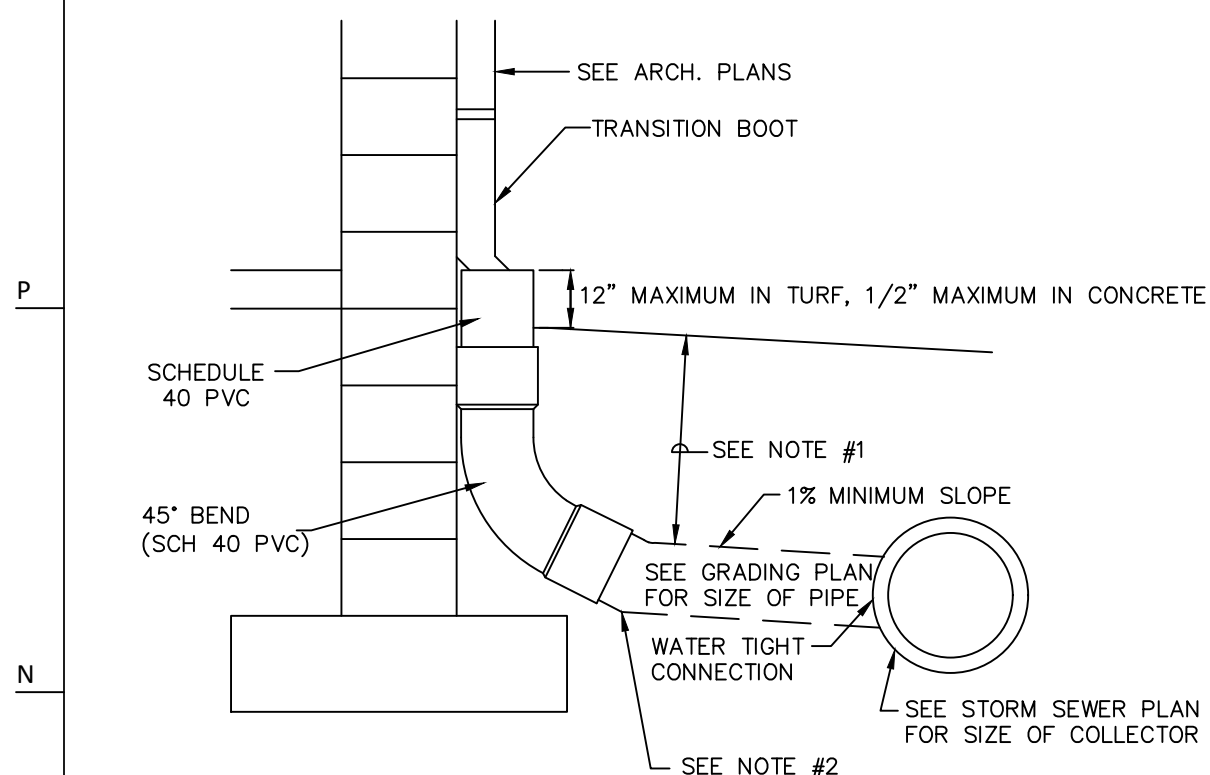
| Number | DESCRIPTION | DATE |
|--------|-------------|------|
| | | |

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

**STORM SEWER
PLAN AND PROFILE**

H-C600

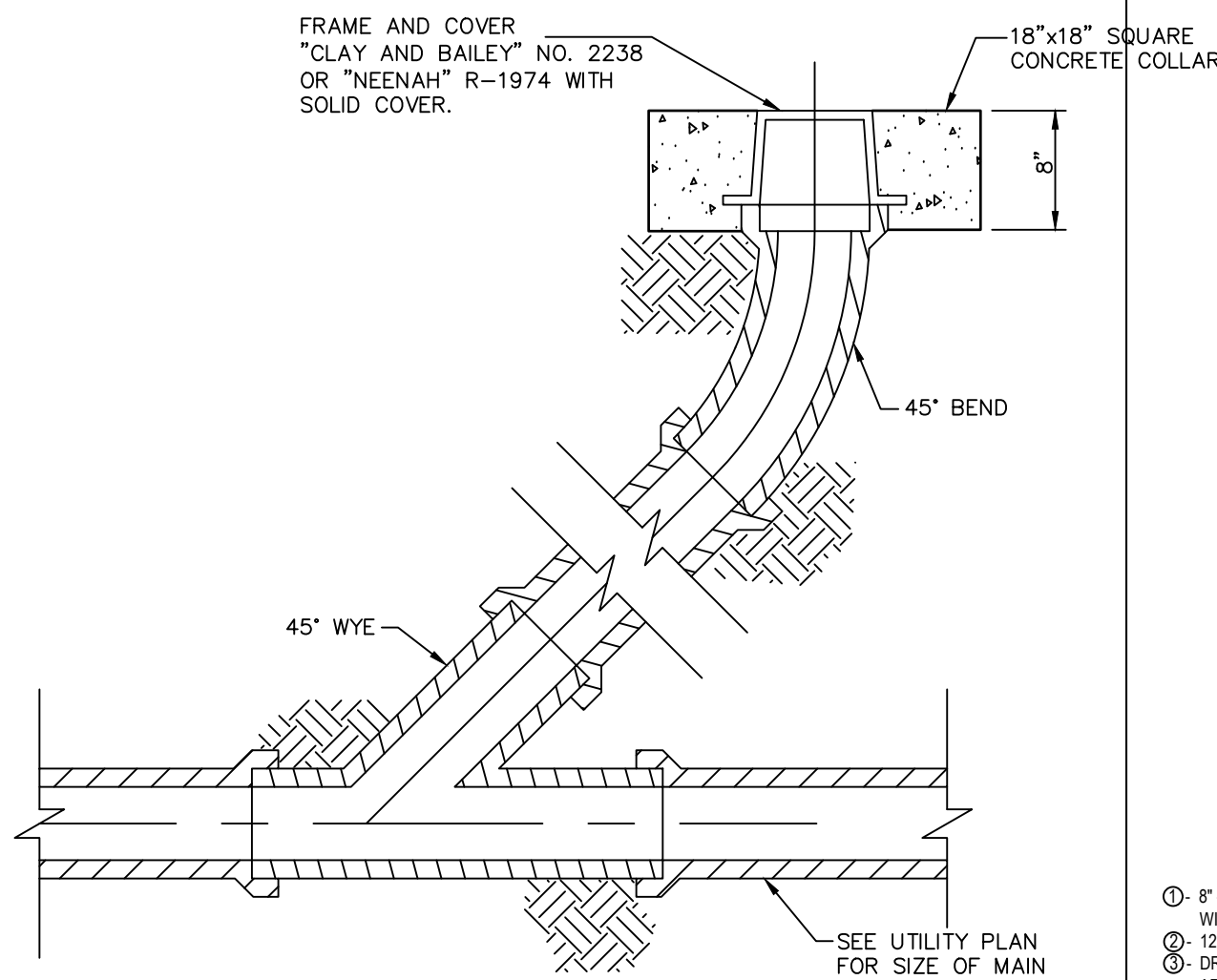
BID SET



- NOTES:
- 1) FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
 - 2) A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
 - 3) THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.

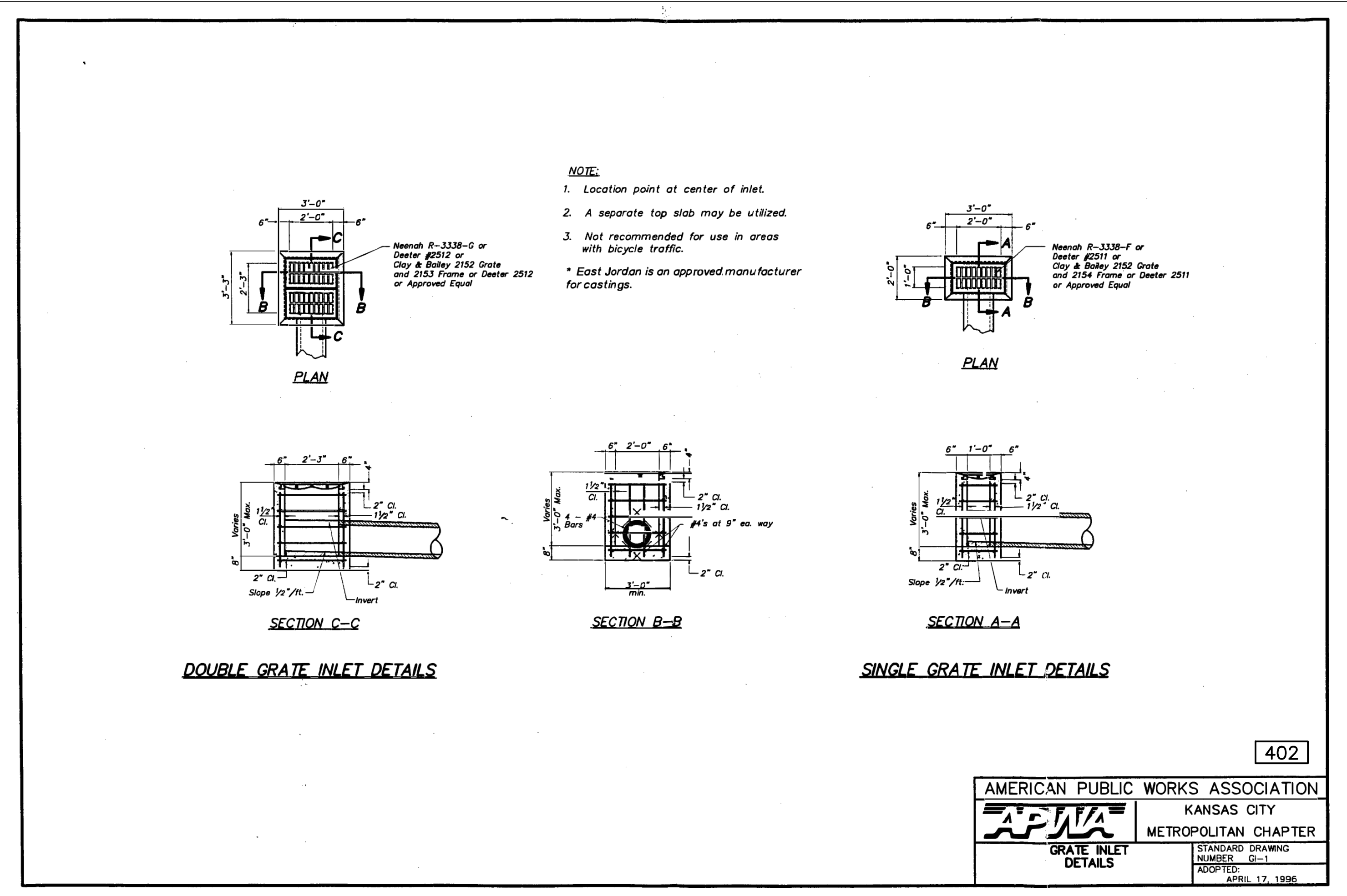
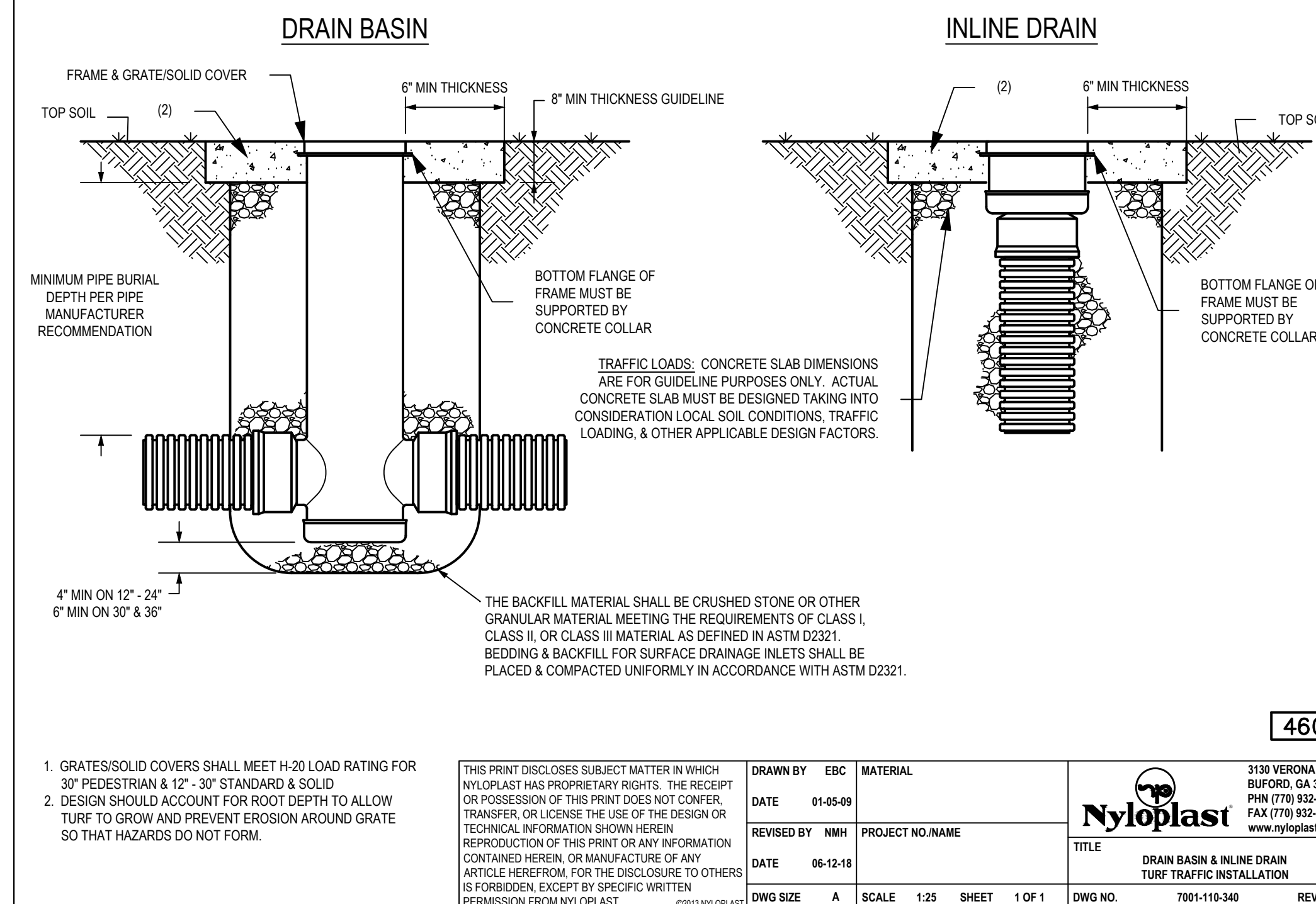
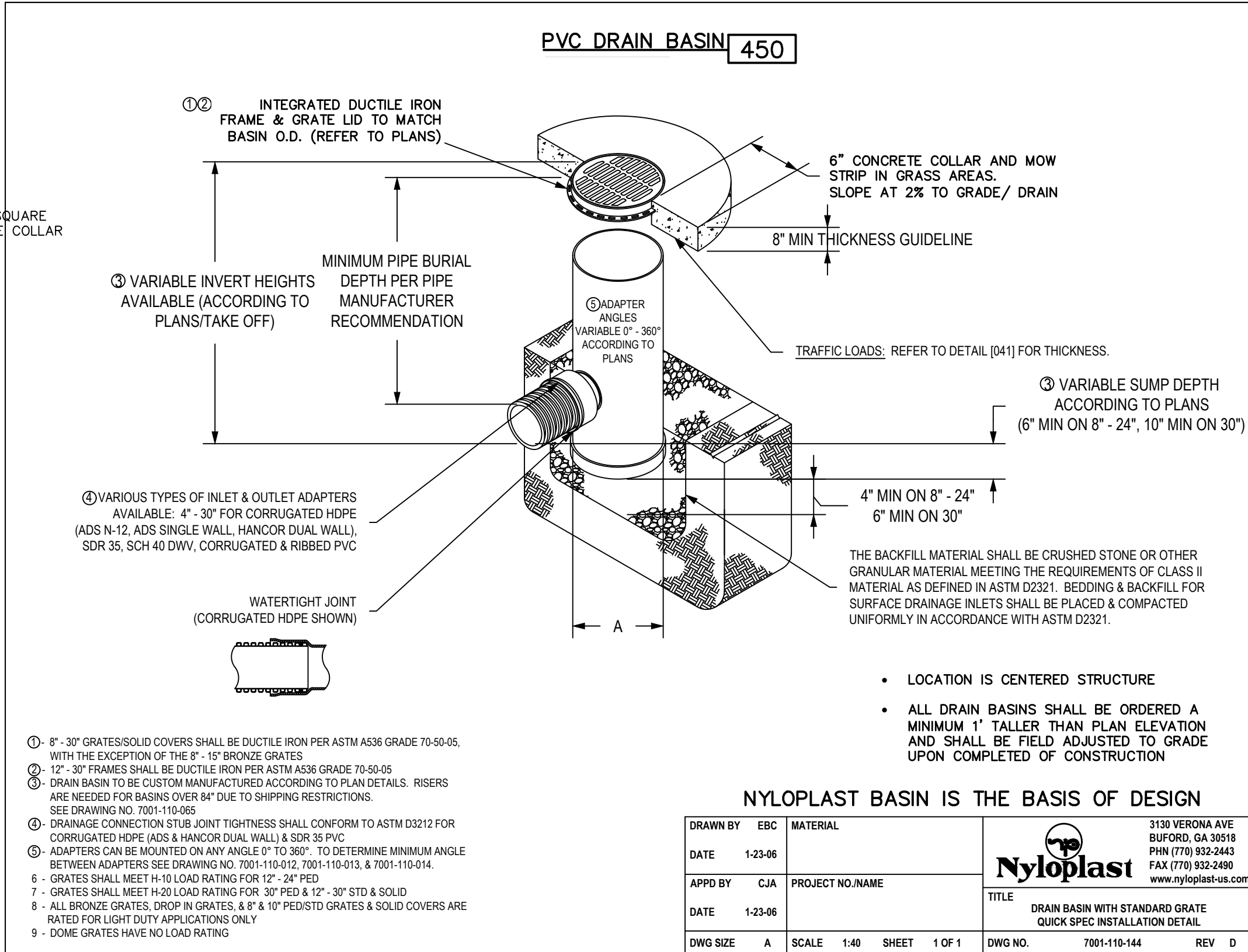
DOWNSPOUT COLLECTOR

433



CLEAN-OUT

510



INLET NOTES

GENERAL

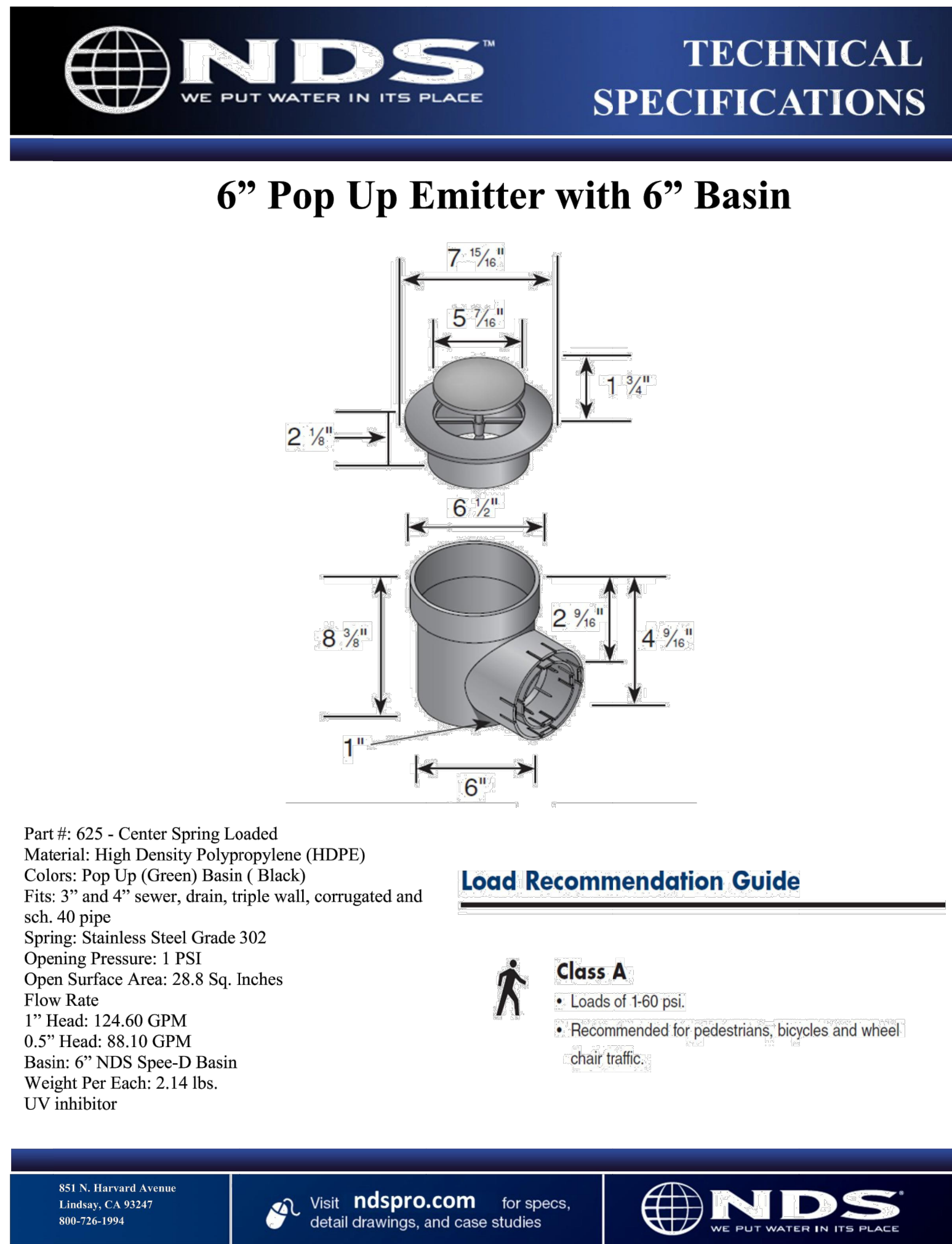
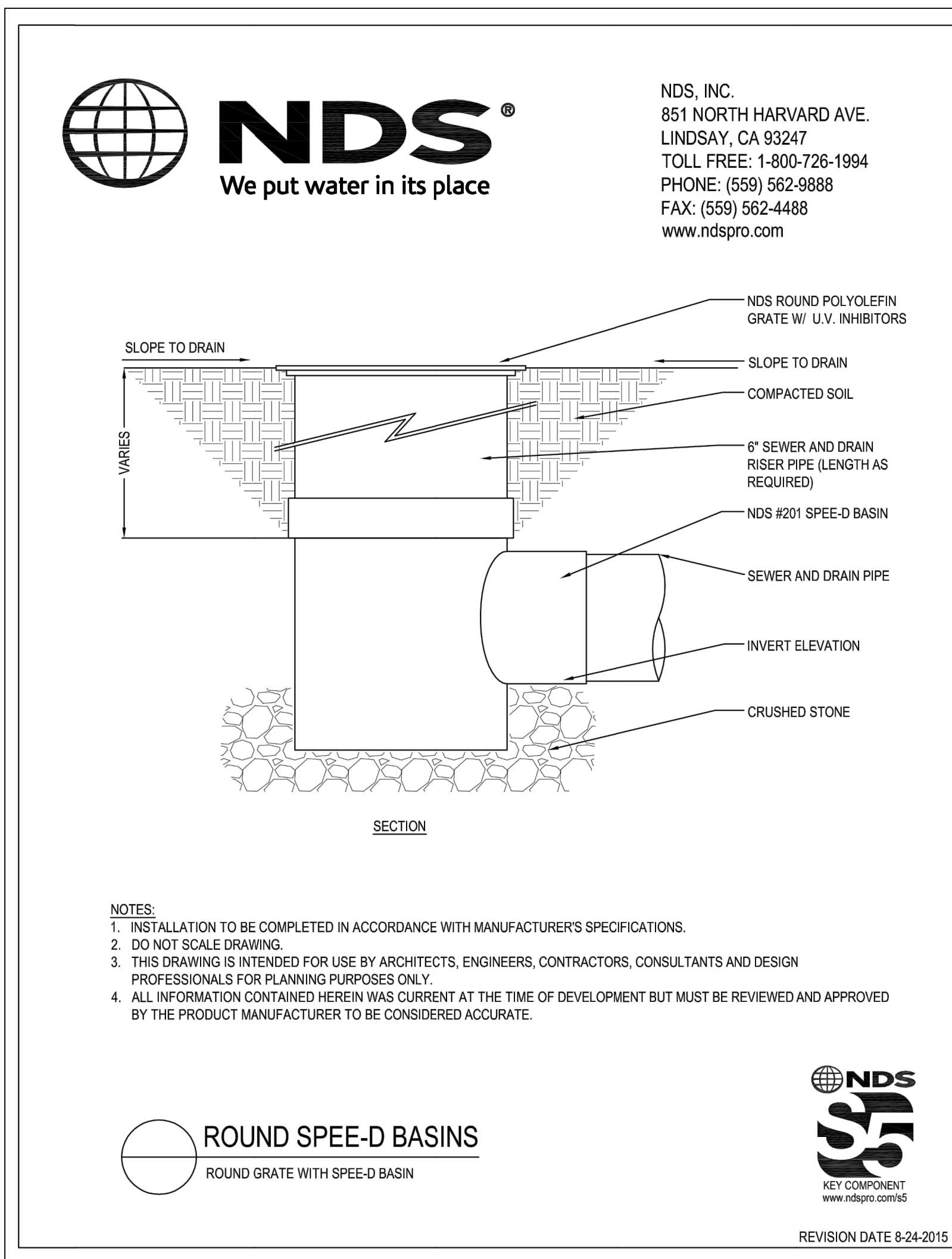
1. ALL STORM SEWER STRUCTURES SHALL BE POURED IN PLACE.
2. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
3. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L" + "H") AND ("W" + "H") LESS THAN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.

CONCRETE

4. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.
5. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
6. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
7. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
8. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H" + "L" NOR "H" + "W" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
9. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

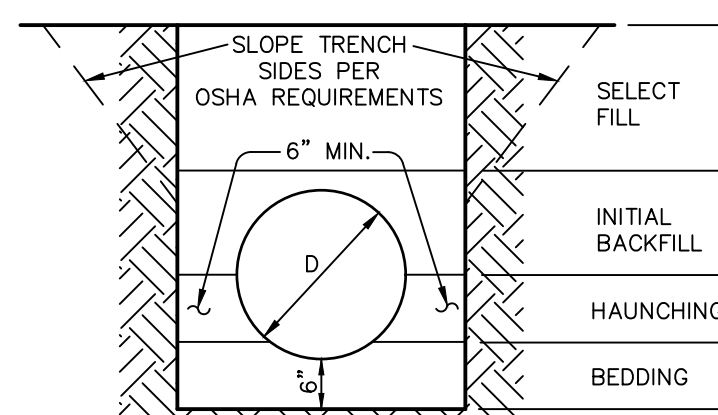
REINFORCING STEEL

10. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
11. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 3/8" SHALL BE PERMITTED.
12. ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
13. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
14. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
15. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
16. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.



POP-UP EMITTER

434



FLEXIBLE PIPE: INCLUDES CORRUGATED METAL PIPE, CORRUGATED POLYETHYLENE PIPE AND/OR POLYVINYL CHLORIDE PIPE.

1. BEDDING SHALL BE COMPACTED CRUSHED STONE AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
2. HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS I OR II (REF. ASTM D2321) GRANULAR MATERIAL AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR.

TRENCH AND BEDDING DETAILS

REFER TO KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2102.4

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

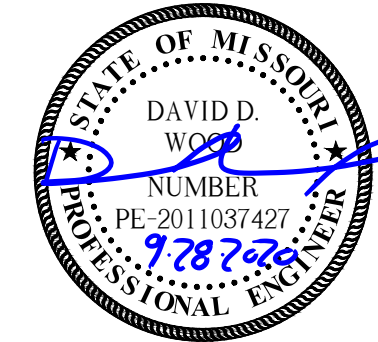
architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
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4338 Bellevue
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civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
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Kansas City, MO 64108
816.663.5700

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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

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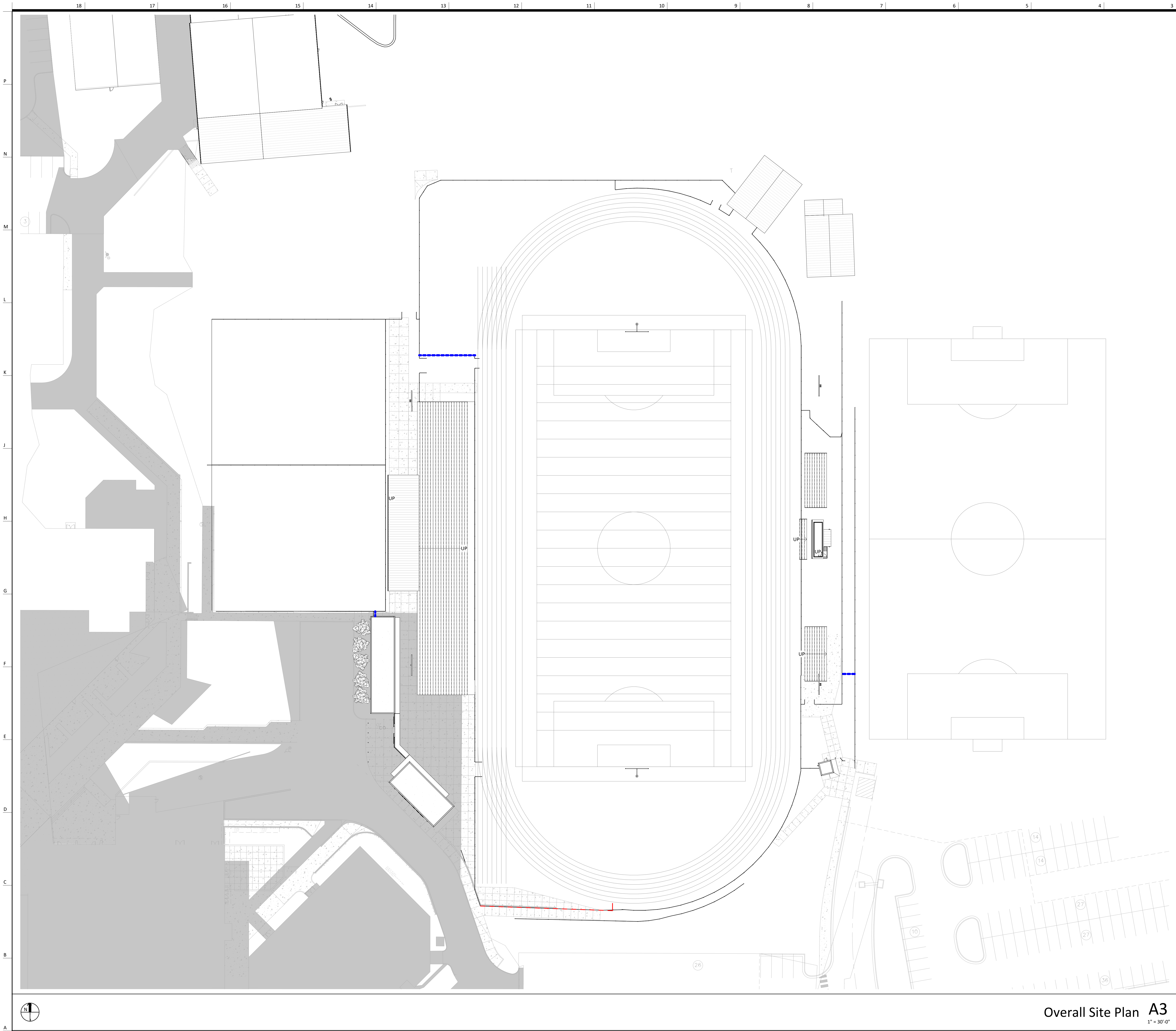
PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

STORM DETAILS

H-C690

BID SET

PROJ. NO. C20_0496 DSN: DDW DAVID D. WOOD
CFN: 0496DET.DWG DWN: NJN ENGINEER
MO # 2011037427
14700 WEST 114TH TERRACE
LENEXA, KANSAS 66215
PH. (913) 894-5150 / FAX (913) 894-5977
www.kveng.com
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



- General Notes (Site Plan):
- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
 - PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
 - PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE
 - FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE
 - ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN.
 - EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.
 - NEW GATES LOCATED UNDER THE STADIUM BLEACHERS SHALL BE PLACED TO AVOID INTERFERENCE OF GATE FUNCTION WITH STRUCTURAL COLUMNS AND VOMITORIES OF STADIUM BLEACHERS. VERIFY GATE LOCATIONS WITH OWNER.
 - (323113) PROVIDE MESH PRIVACY SCREEN AT ALL NEW FENCE & GATE LOCATIONS UNDER THE STADIUM BLEACHERS.

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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
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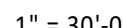
JAY BROWNING
ARCHITECT
9.28.20

Architectural Corporation
Missouri License No. 2018022991
Jay Browning, Architect
Date: 09/28/2020
License No. A-2009027279

| REVISIONS | | |
|-----------|-------------|------|
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Architectural Site Plan
H-AS002
BID SET



BID SET



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

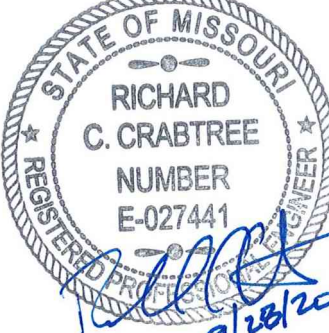
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Richard C. Crabtree Date: 09/28/2020
Engineer License No. E-027441

REVISIONS

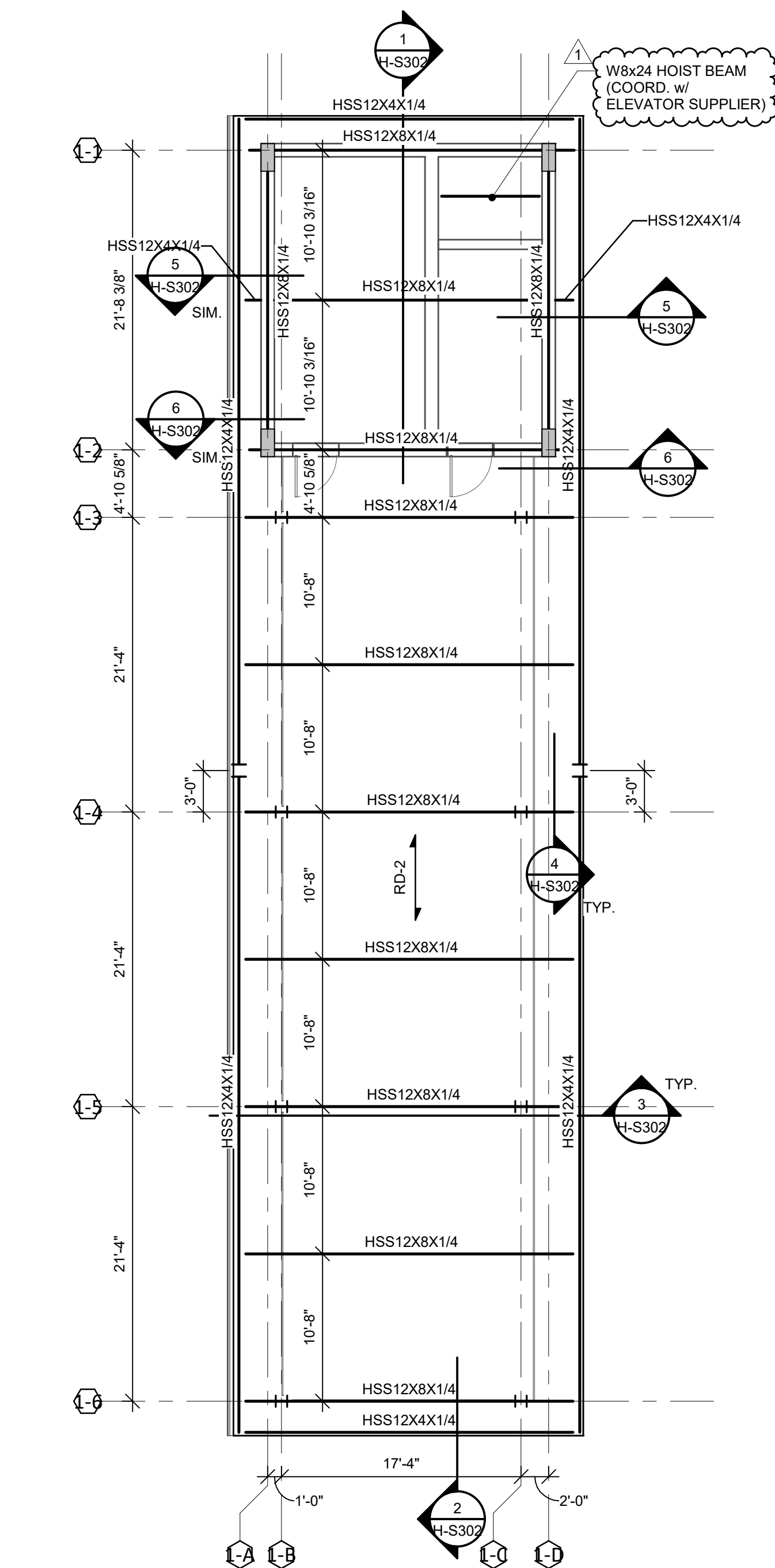
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Press Box Plans

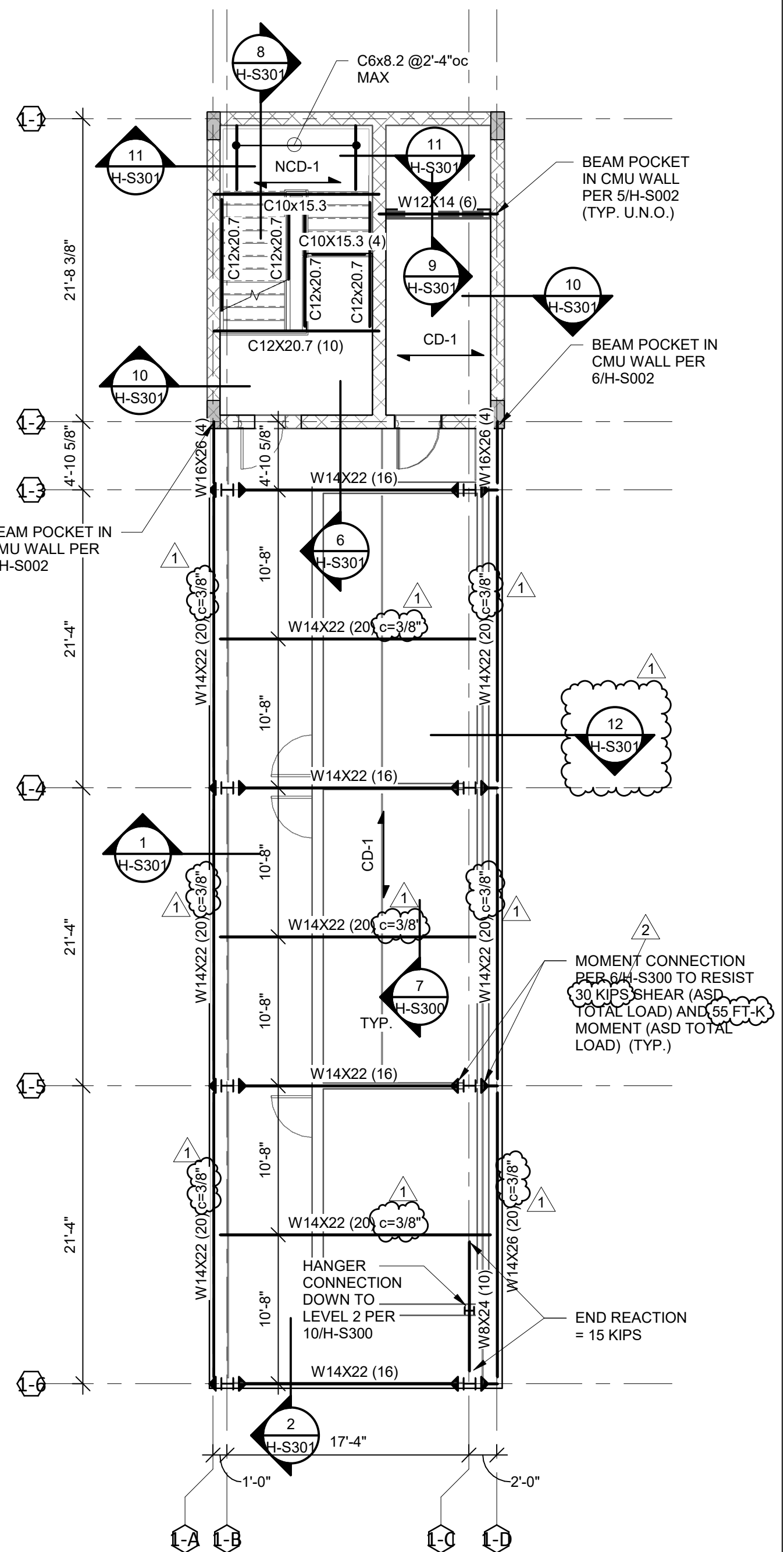
H-S111

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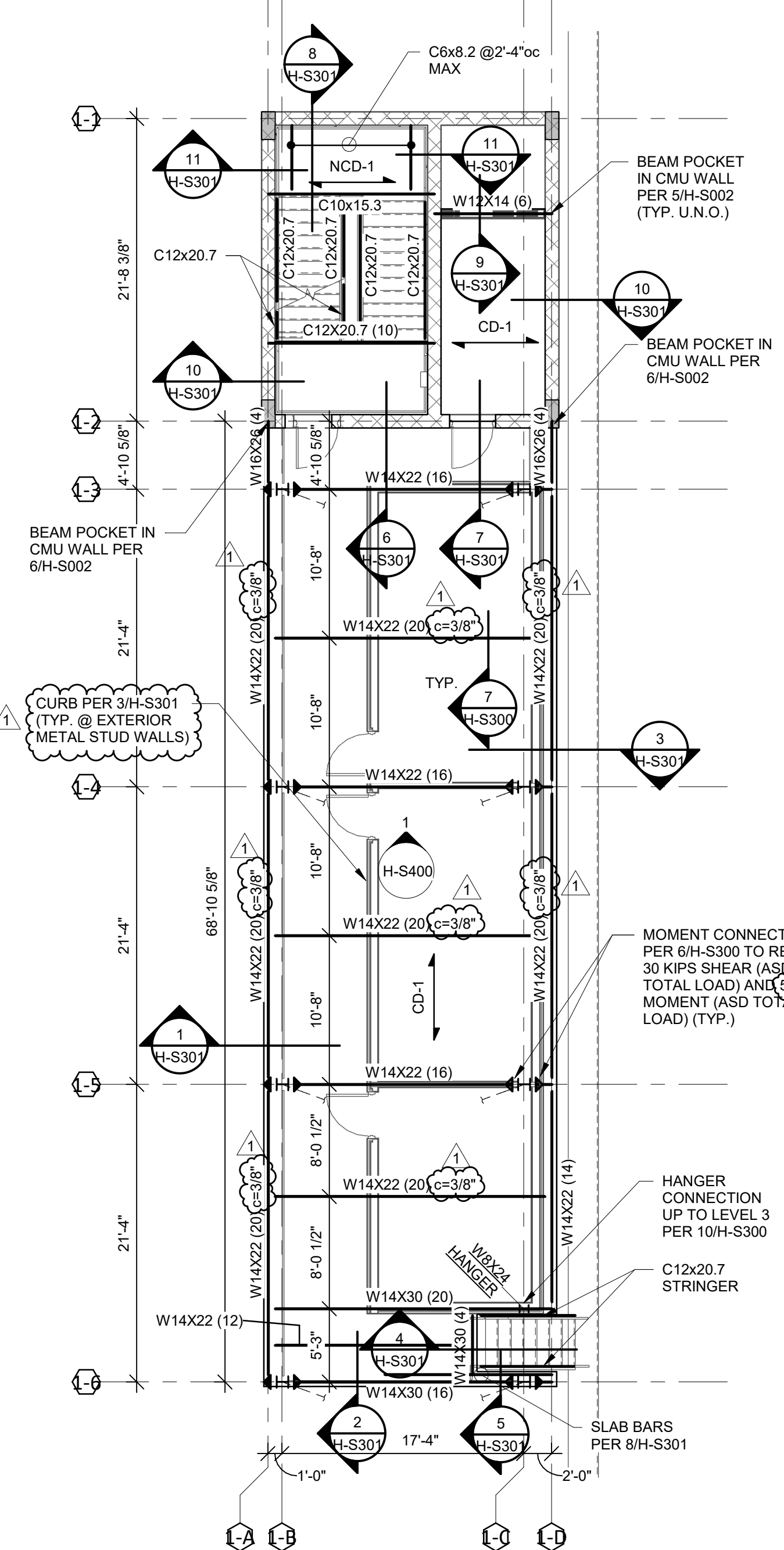
4 Roof Framing Plan - Home Press Box

- NOTES:
- REFER TO GENERAL NOTES ON SHEET S001.
 - RD-2 INDICATES 3/4"x20ga GALV. EPICORE ER-3.5 ROOF DECK ATTACH TO FRAMING w/ 3/4" ID PUDLE WELDS ON 24"x3" PATTERN w/ #12 TEK SCREW SIDELAP FASTENERS @ 24"oc.
 - NCD-1 INDICATES 2'-7 1/8" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB w/ 6x6-6/8 WWF. TISLAB EL PER ARCH.
 - W14X22 (20) c=3/8"



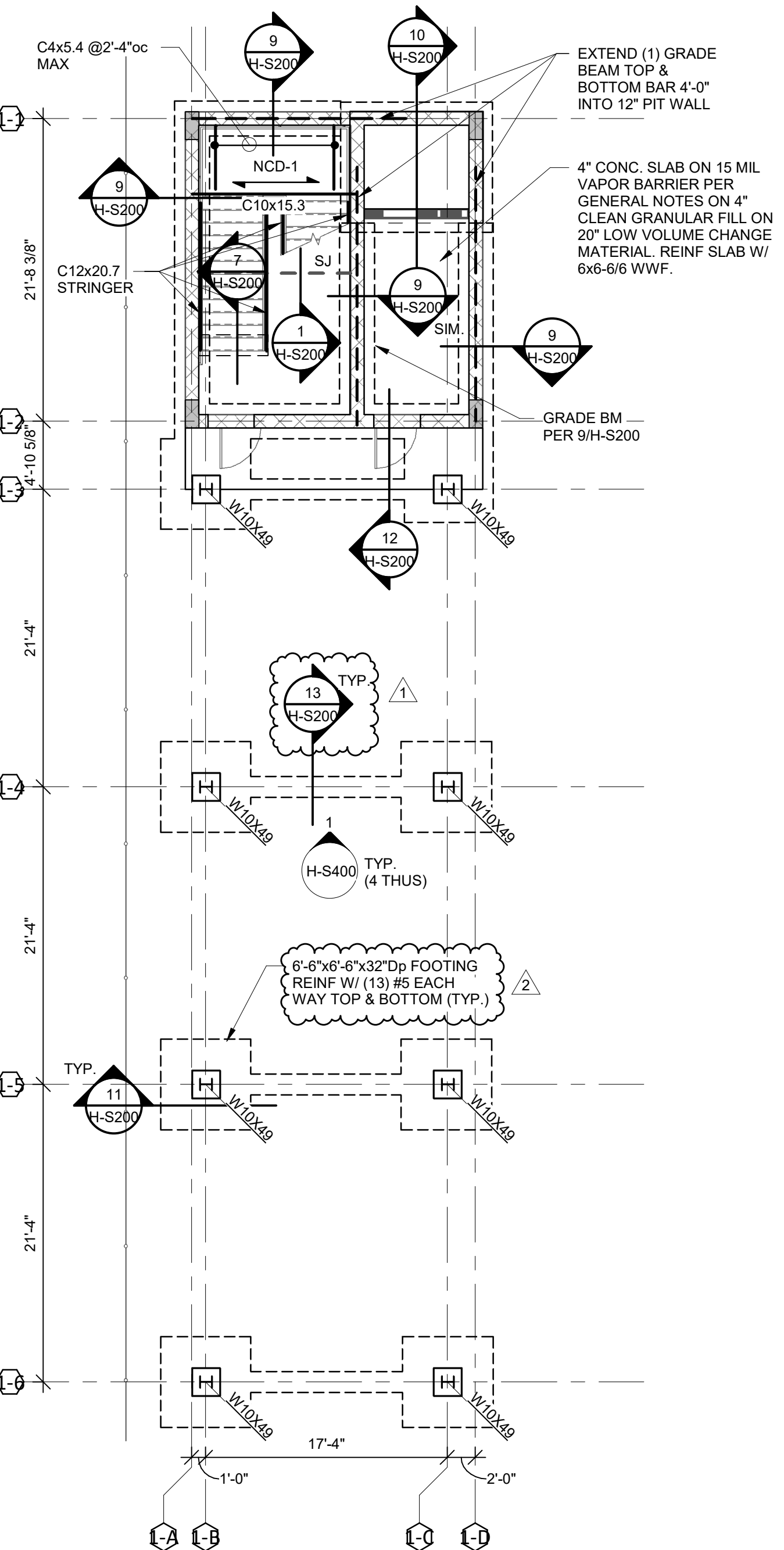
3 Level 3 Framing Plan - Home Press Box

- NOTES:
- REFER TO GENERAL NOTES ON SHEET S001.
 - CD-1 INDICATES 2" (MIN.) CONC. SLAB ON 3/2"x20ga GALV. EPICORE 3.5 COMPOSITE FLOOR DECK. REINF. SLAB w/ 6x6-6/8 WWF. TISLAB EL VARIES PER ARCH. ATTACH TO FRAMING w/ 5/8" PUDLE WELDS ON 24"x3" PATTERN w/ #10 TEK SCREW SIDELAP FASTENERS @ 36"oc.
 - NCD-1 INDICATES 2'-7 1/8" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB w/ 6x6-6/8 WWF. TISLAB EL PER ARCH.
 - W14X22 (20) c=3/8"



2 Level 2 Framing Plan - Home Press Box

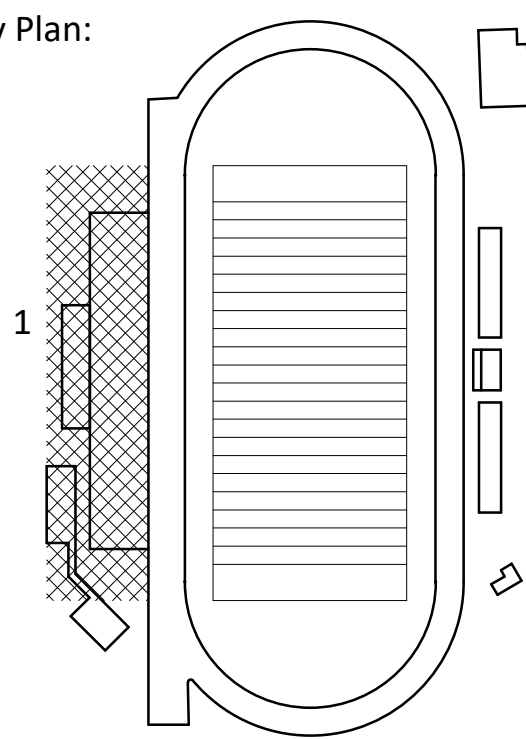
- NOTES:
- REFER TO GENERAL NOTES ON SHEET S001.
 - CD-1 INDICATES 2" (MIN.) CONC. SLAB ON 3/2"x20ga GALV. EPICORE 3.5 COMPOSITE FLOOR DECK. REINF. SLAB w/ 6x6-6/8 WWF. TISLAB EL VARIES PER ARCH. ATTACH TO FRAMING w/ 5/8" PUDLE WELDS ON 24"x3" PATTERN w/ #10 TEK SCREW SIDELAP FASTENERS @ 36"oc.
 - NCD-1 INDICATES 2'-7 1/8" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB w/ 6x6-6/8 WWF. TISLAB EL PER ARCH.
 - W14X22 (20) c=3/8"



1 Level 1 Foundation Plan - Home Press Box

- NOTES:
- REFER TO GENERAL NOTES ON SHEET S001.
 - INDICATES 12"x24" CMU COLUMNS REINF. w/ (6) #6 VERTS & #3 TIES @ 8"oc.
 - NCD-1 INDICATES 2'-7 1/8" CONC. SLAB ON 9/16"x26ga METAL FORM DECK. REINF. SLAB w/ 6x6-6/8 WWF. TISLAB EL PER ARCH.

Key Plan:



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
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Richard C. Crabtree Date: 09/28/2020
Engineer License No. E-027441

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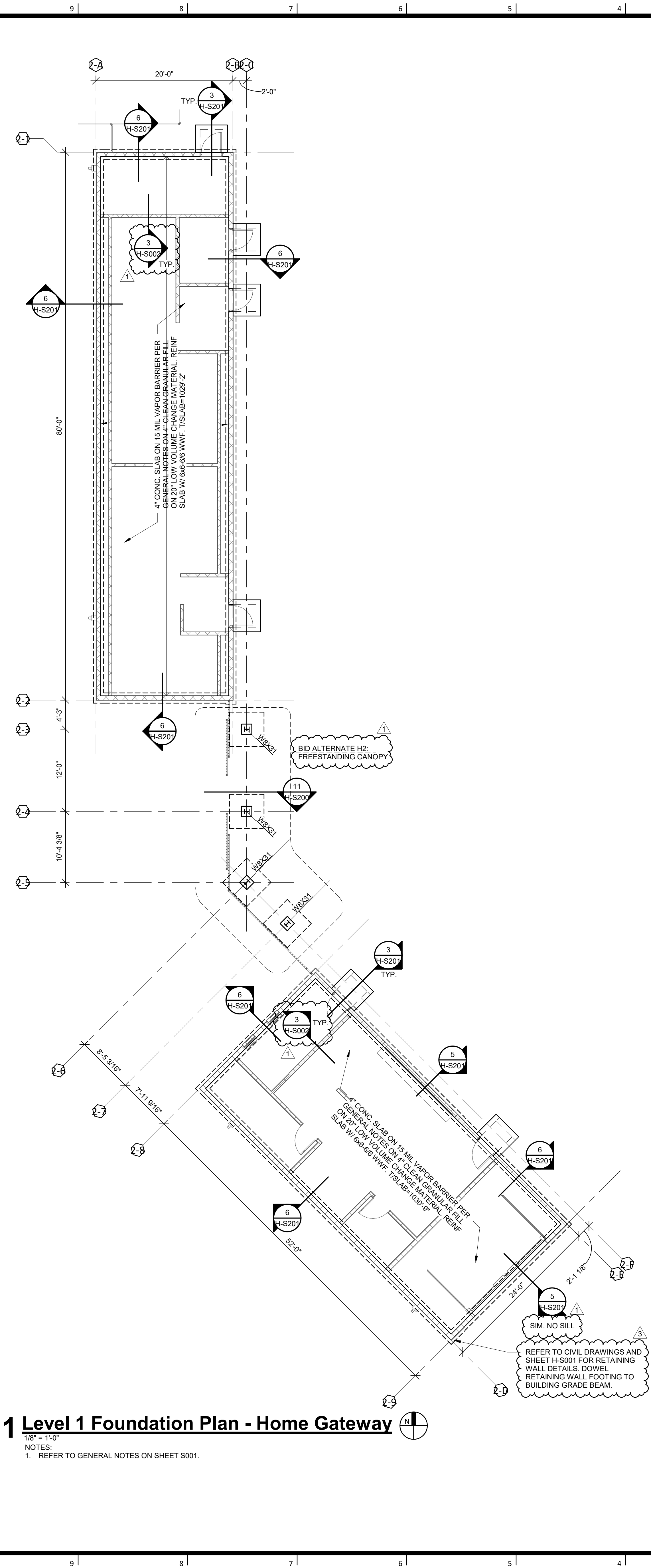
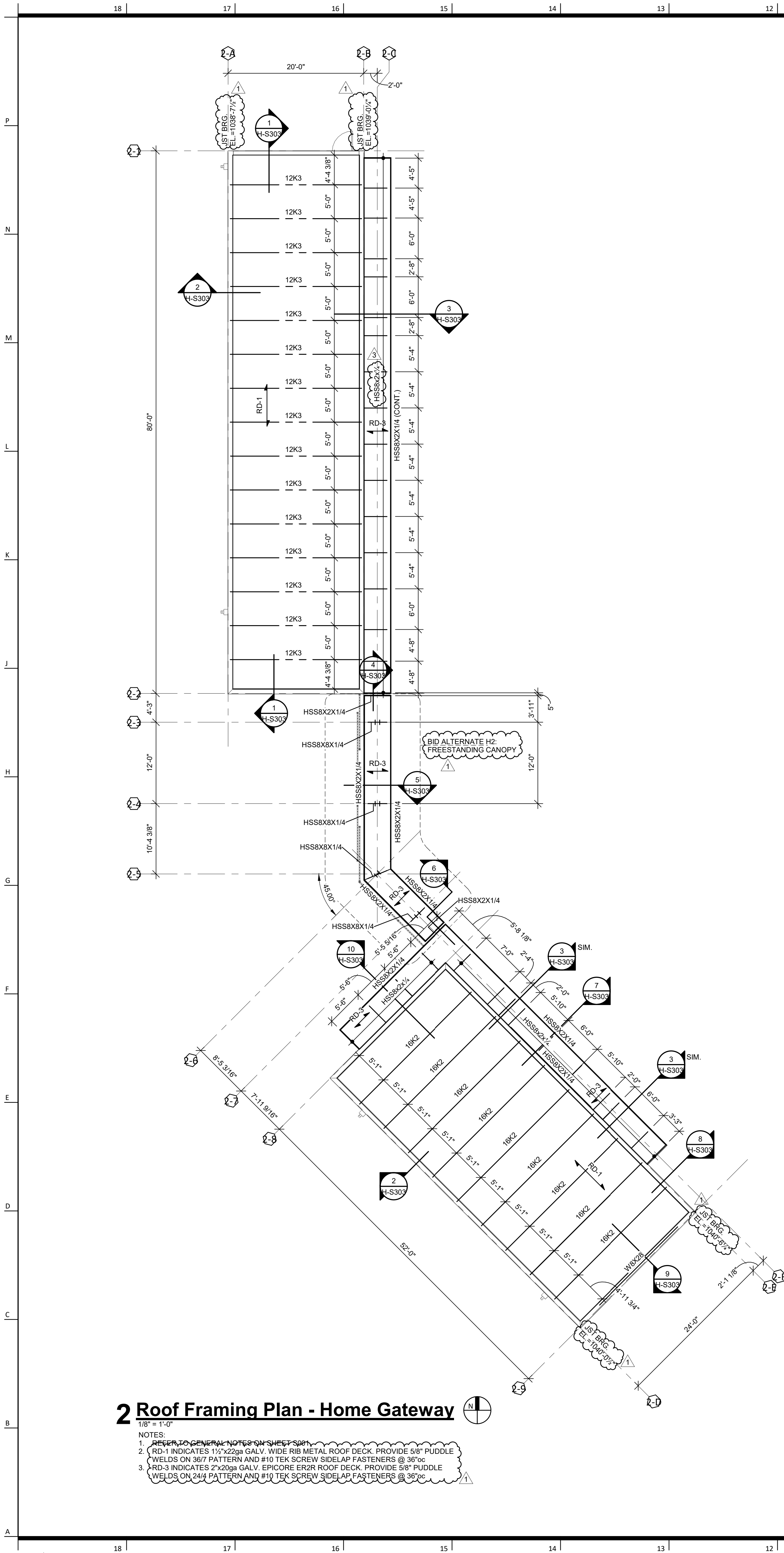
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PROJECT NO: 0119-0101
DATE: September 28, 2020

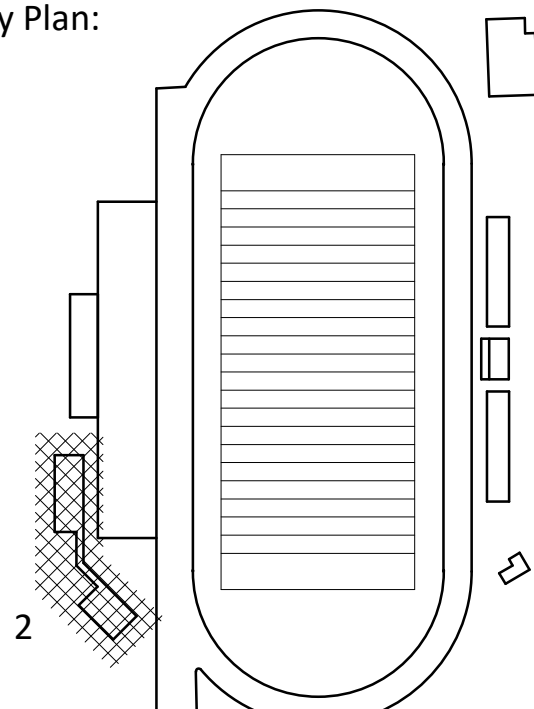
Home Gateway Plans

H-S121

BID SET



Key Plan:



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

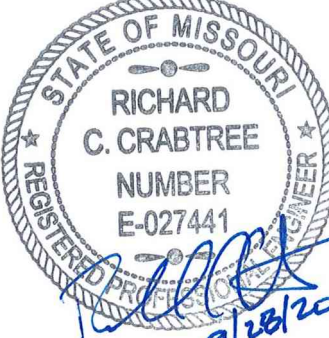
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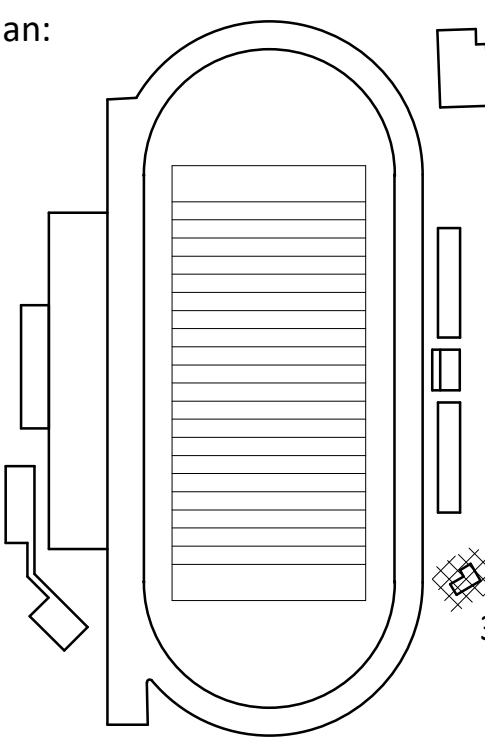
PROJECT NO: 0119-0101
DATE: September 28, 2020

Visitor Ticket Booth
Plans

H-S131

BID SET

Key Plan:



1 Level 1 Foundation Plan -Visitor Ticket Booth

1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.

2 Roof Framing Plan - Visitor Ticket Booth

1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 1 1/2" X 22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 3617 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @ 36"oc
3. RD-3 INDICATES 2" X 20ga GALV. EPICORE ER2R ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 244 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @ 36"oc

3 SECTION

3/4" = 1'-0"

4 SECTION

3/4" = 1'-0"

5 SECTION

3/4" = 1'-0"

6 SECTION

3/4" = 1'-0"

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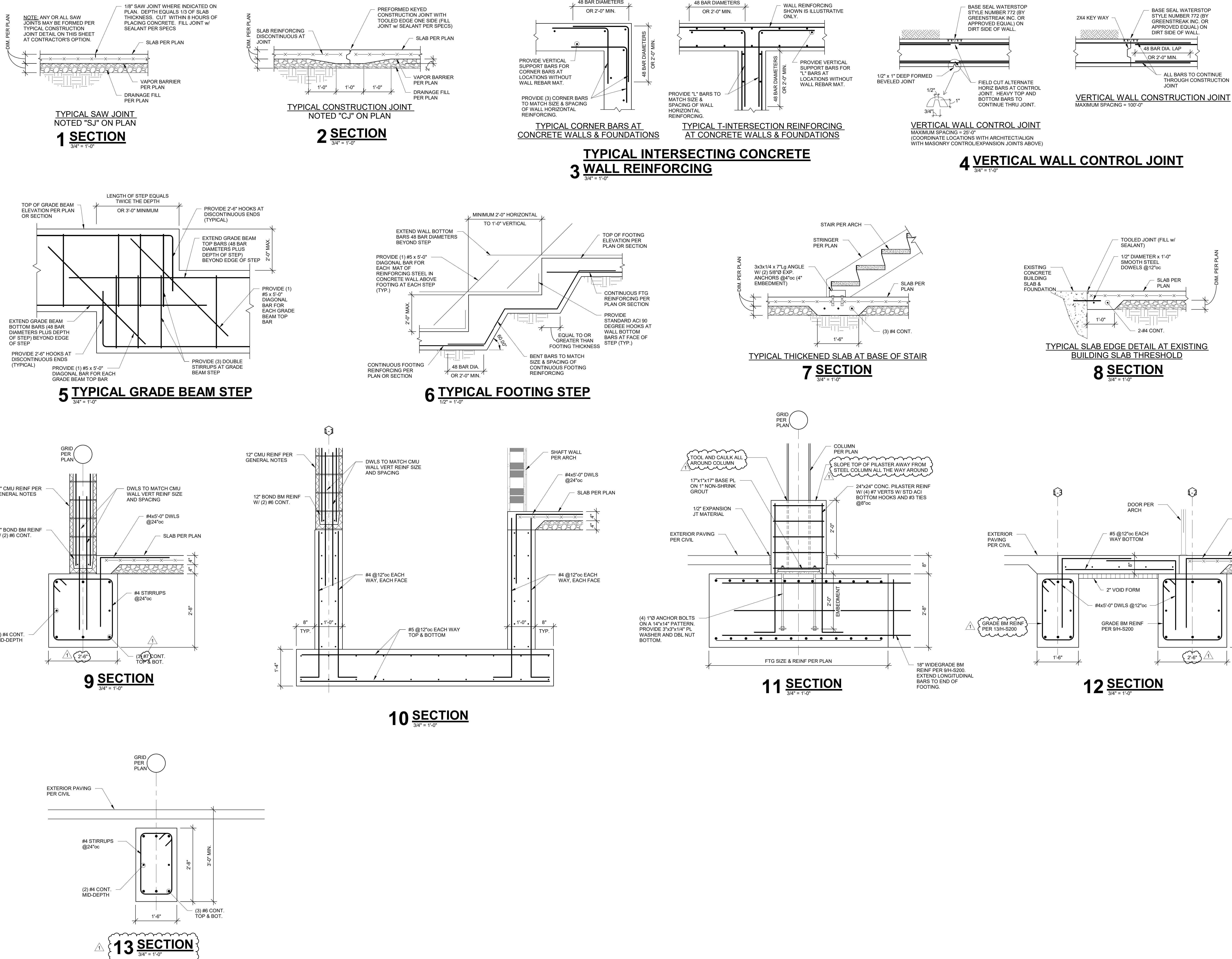
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| 1 | ADD | 10.30.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Foundation Sections

H-S200

BID SET



Lee's Summit R7 District
Athletics Facilities

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400 SE Blue Parkway
Lee's Summit, MO 64063

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Lee's Summit, MO 64086

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| 1 | ADD | 10.30.2020 |

PROJECT NO: 0119-0101
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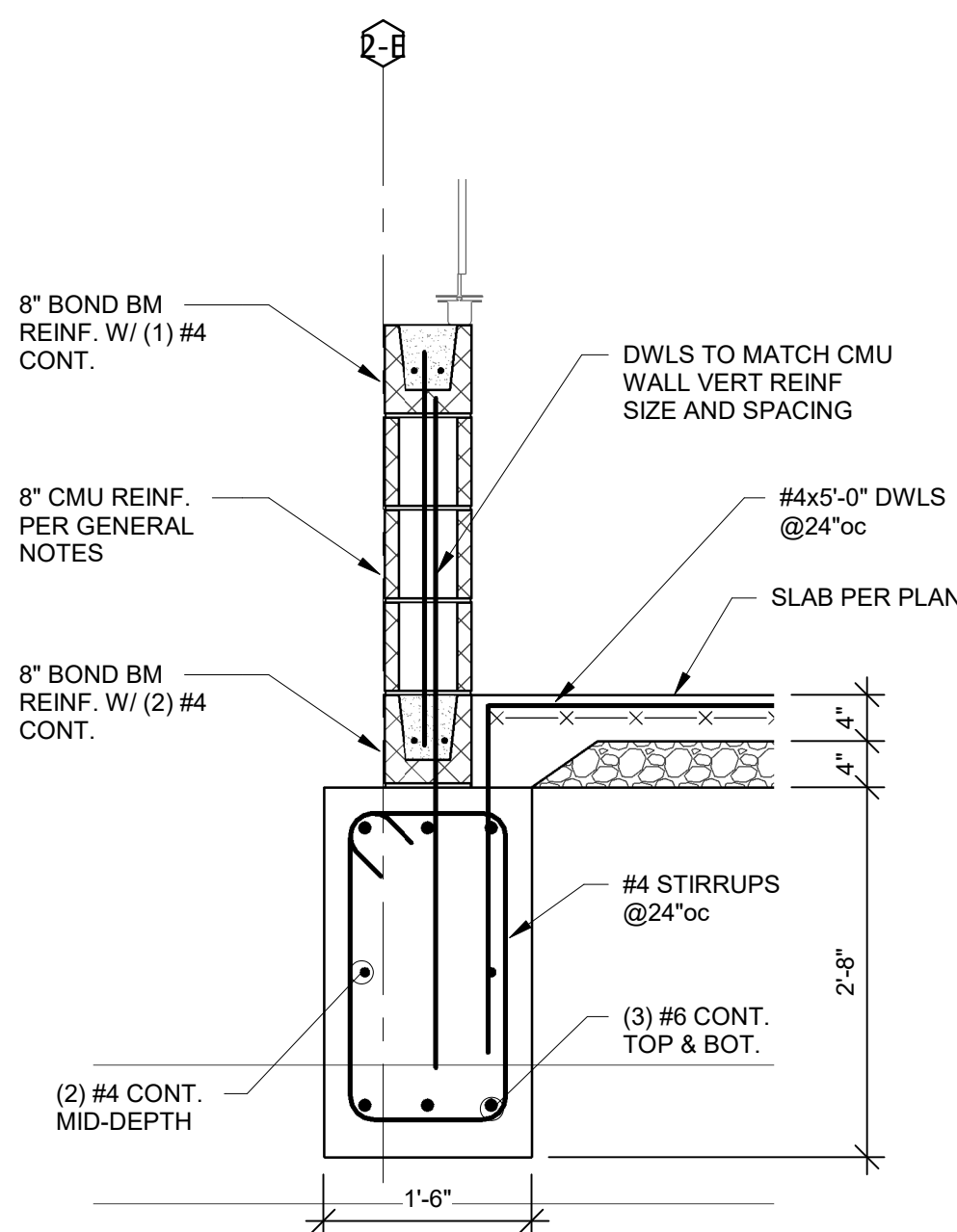
Foundation Sections

H-S201

BID SET

NOT USED

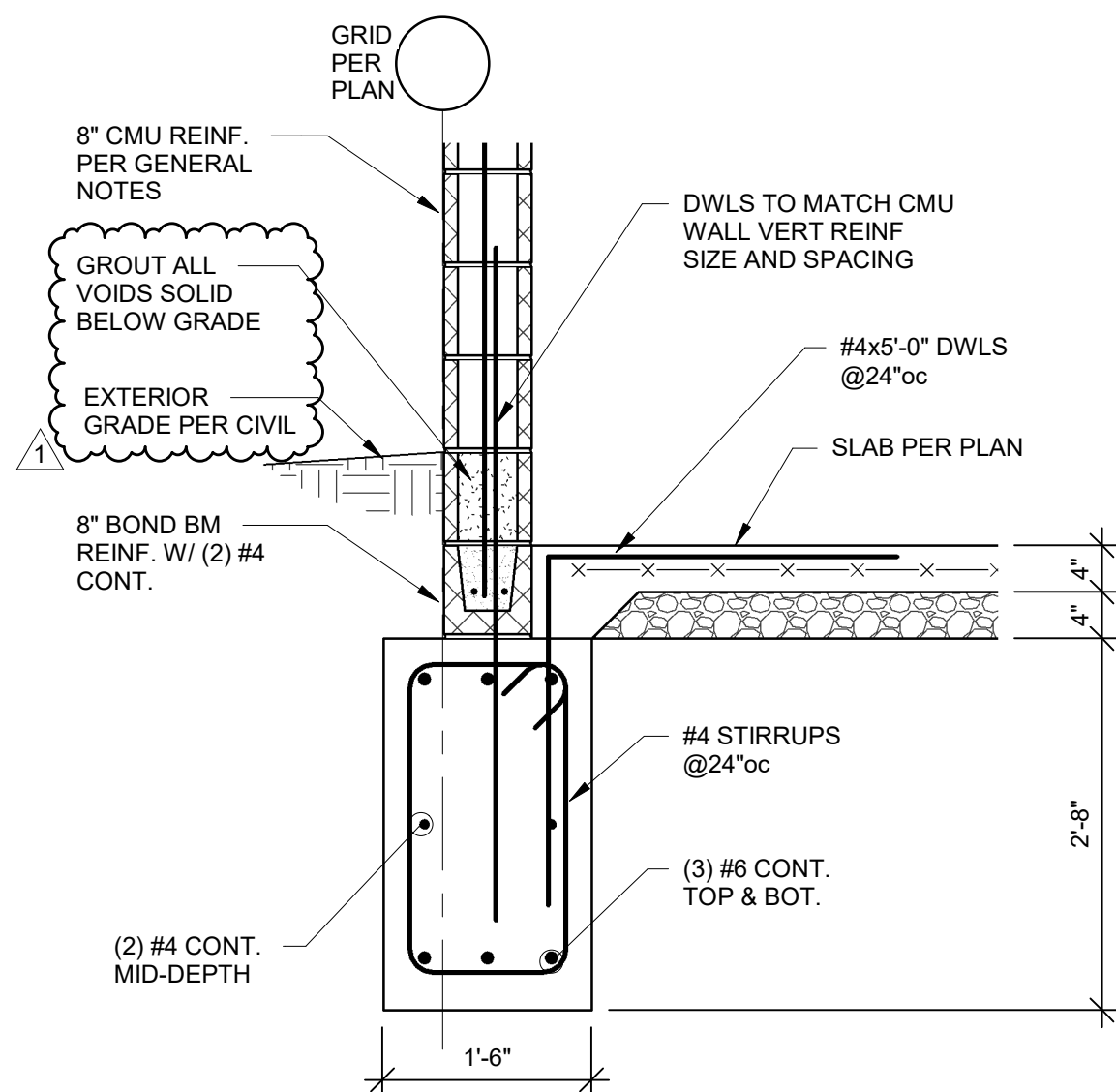
1 SECTION
3/4" = 1'-0"



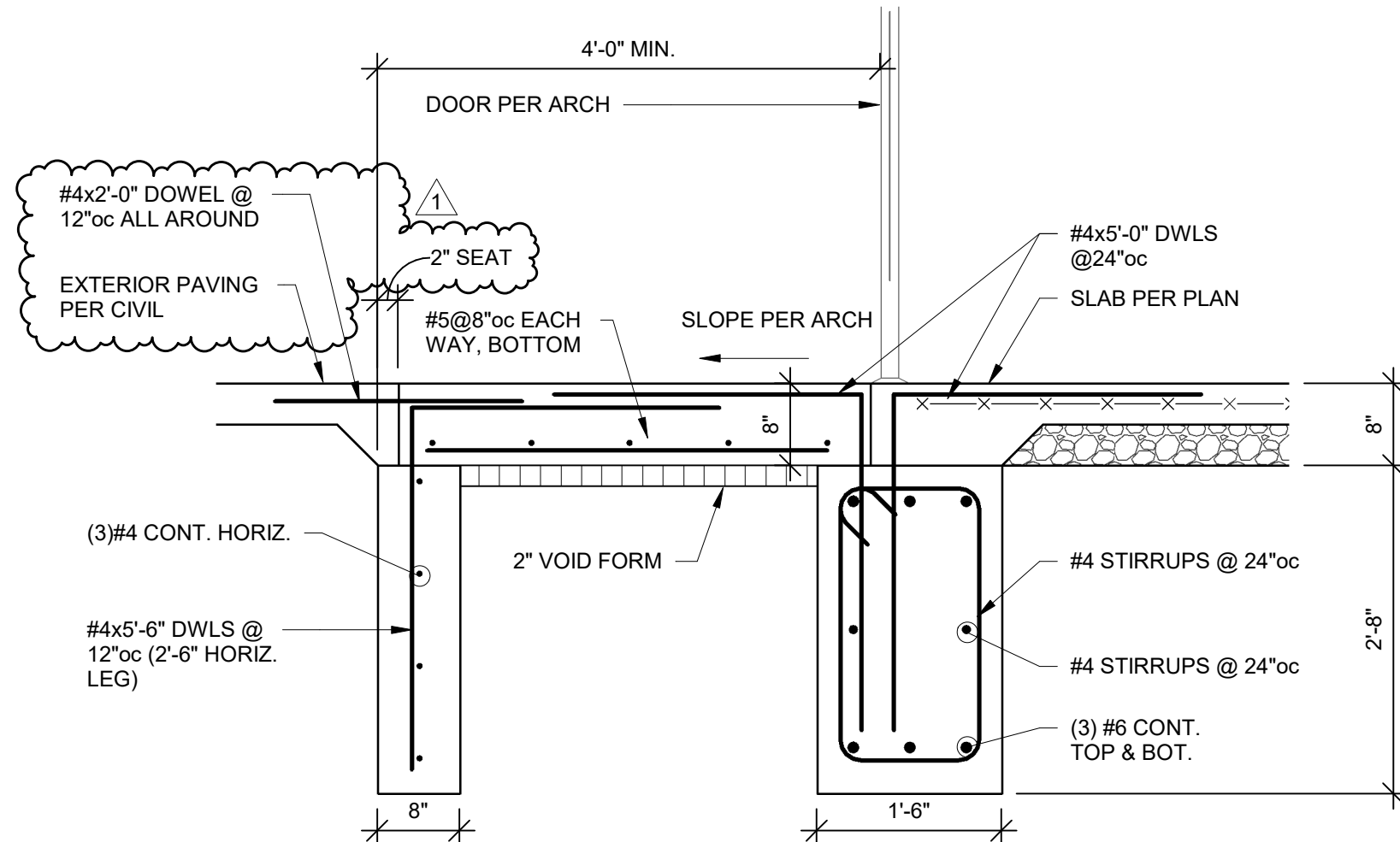
5 SECTION
3/4" = 1'-0"

NOT USED

2 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



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

NOT USED

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

Lee's Summit R7 District
Athletics Facilities

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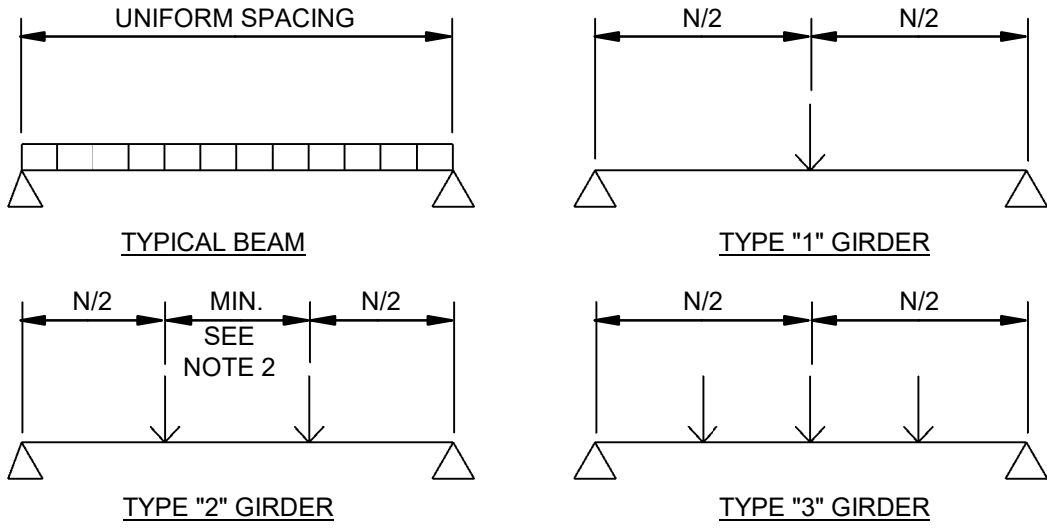
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STEEL CONNECTION NOTES:

1. REFER TO GENERAL NOTES ON SHEET H-S001.
2. CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
3. FABRICATOR SHALL BE RESPONSIBLE FOR THE ENGINEERING, DESIGNING, AND DETAILING OF EACH CONNECTION FOR LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STRUCTURAL GENERAL NOTES.
4. SUGGESTED CONNECTION DETAILS ARE SHOWN. FINAL CONNECTION CONFIGURATION AND DESIGN SHALL BE COMPLETED BY THE CONNECTION ENGINEER. CONNECTION DESIGN SHALL INCLUDE COLUMN OR BEAM CONTINUITY PLATES, WEB STIFFENERS, AND/OR DOUBLER PLATES AS REQUIRED FOR THE FORCES INDICATED.
5. FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THOSE SHOWN HEREIN TO MEET END REACTION REQUIREMENTS (i.e. DOUBLE ANGLE CONNECTION).
6. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
7. ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.
8. ALL BOLTS SHALL BE SPACED AT 3" O.C. MINIMUM.
9. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
10. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
11. BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.
12. CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.
13. FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES. INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO ACCOMMODATE COMBINED FORCES.
14. PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION LOAD REQUIREMENTS.
15. REFER TO ELEVATIONS ON SHEET H-S400 FOR BRACE FORCES. REFER TO PLANS FOR ADDITIONAL BEAM AXIAL FORCES. BRACE AND BEAM FORCES INDICATED ARE UNFACTORED (ASD) LOADS AND SHALL BE CONSIDERED CONCURRENT W/ BEAM SHEAR DESIGN FORCES LISTED IN THE BEAM SHEAR CONNECTION SCHEDULE.
16. COORDINATE BRACED FRAME CONNECTION W/ ARCHITECTURAL WALLS AS REQUIRED TO AVOID CONFLICT OR EXPOSURE OUTSIDE OF WALL OR FINISH.
17. ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

| BEAM SHEAR CONNECTION SCHEDULE | | |
|-----------------------------------|--------------------------|-----------------------|
| BEAM SIZE | MINIMUM ROWS OF BOLTS | END REACTION (U.N.O.) |
| W8,C8,HSS8 W10,C10 | 2 | 10 KIPS |
| W12,C12,HSS12 | 2 | 15 KIPS |
| W14, W16 | 3 | 30 KIPS |



TYPICAL STUD PLACEMENT DIAGRAM

1. ALL DIAGRAMS REPRESENT IDEALIZED CONDITIONS. ACTUAL FRAMING CONFIGURATIONS MAY REQUIRE ADDITIONAL INTERPRETATION.
2. MAXIMUM SPACING OF STUDS SHALL BE 36" O.C. IF STUD SPACING EXCEEDS 12" O.C. PROVIDE 50" DIA. PUDDLE WELD ATTACHMENT SUCH THAT THE MAXIMUM AVERAGE SPACING OF STUD WELD ATTACHMENT IS 12" O.C. AND MAXIMUM SPACING BETWEEN ATTACHMENTS IS 18".
3. THE NUMBER OF STUDS PER BEAM SHOWN ON THE DRAWINGS IS BASED ON AN ASSUMED DESIGN VALUE OF 13.3 KIPS/STUD. THE ACTUAL NUMBER OF STUDS PER BEAM (N) MAY VARY BASED ON WIDTH, DECK DEPTH, NUMBER OF STUDS PER CELL, DECK RIB ORIENTATION, ETC. AS PER AISC SPECIFICATIONS FOR COMPOSITE CONSTRUCTION. METAL DECK CONTRACTOR SHALL SUBMIT ALL CALCULATIONS VERIFYING THE HORIZONTAL SHEAR CAPACITY OF SHEAR STUDS DETAILED ON SHOP DRAWINGS AND PROVIDE THE STUDS REQUIRED.
4. SHEAR CONNECTOR PLACEMENT SHALL BE FULLY DETAILED ON THE METAL DECK SHOP DRAWINGS.

9 TYPICAL STUD PLACEMENT

10 SECTION

3/4" = 1'-0"

1 DETAIL

3/4" = 1'-0"

2 DETAIL

3/4" = 1'-0"

3 DETAIL

3/4" = 1'-0"

4 DETAIL

3/4" = 1'-0"

5 SECTION

3/4" = 1'-0"

6 SECTION

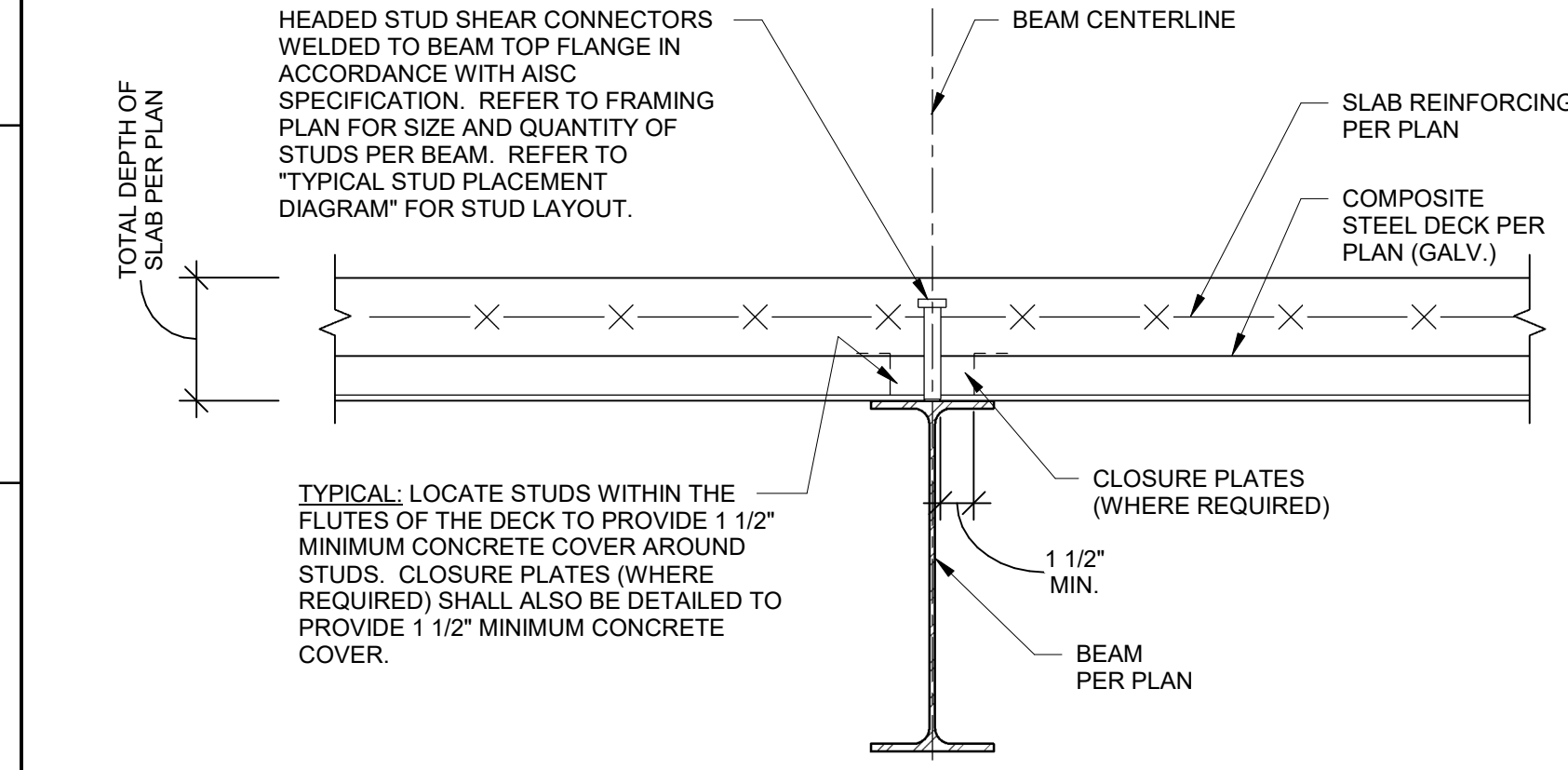
3/4" = 1'-0"

7 SECTION

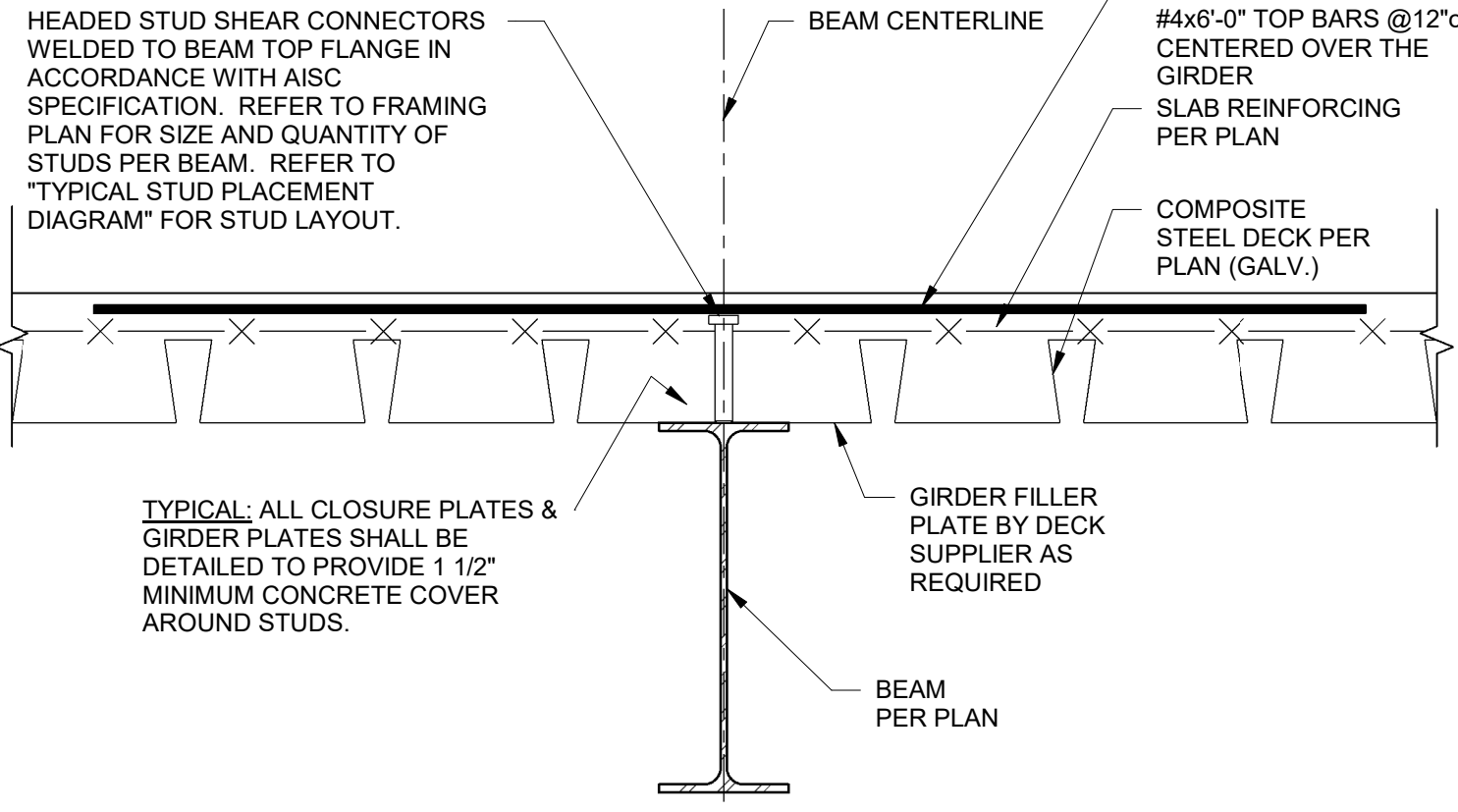
1 1/2" = 1'-0"

8 SECTION

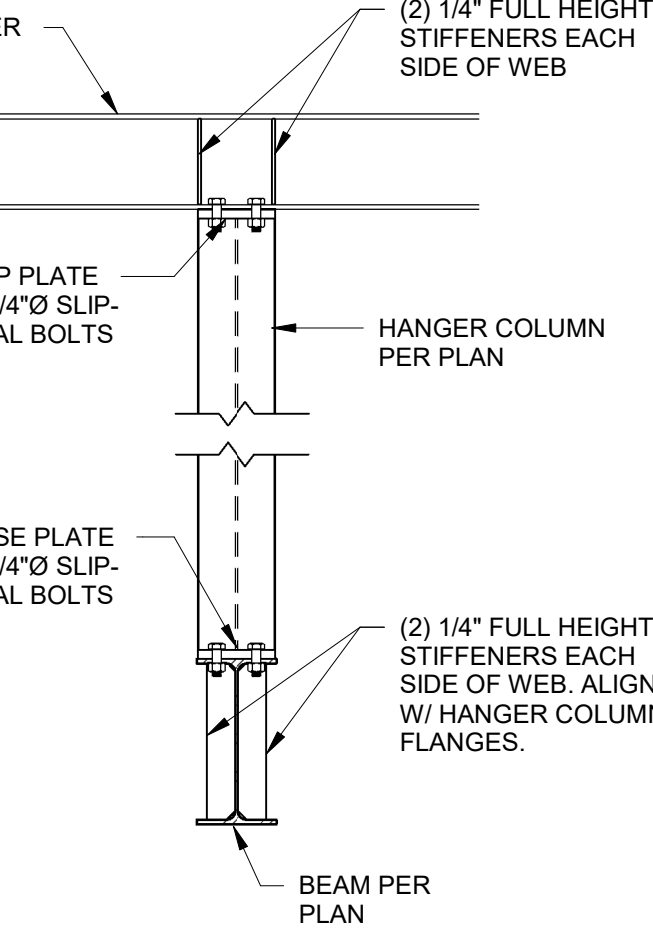
1 1/2" = 1'-0"



TYPICAL COMPOSITE BEAM DETAIL
(DECK SPAN PERPENDICULAR TO BEAM)



TYPICAL COMPOSITE BEAM/GIRDER DETAIL
(DECK SPAN PARALLEL TO BEAM)



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Jane Doe Date: MM/DD/YYYY
Architect License No. A-00000000

| REVISIONS | | |
|-----------|-------------|------|
| Number | DESCRIPTION | DATE |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections

H-S300

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
913.742.5000

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Richard C. Crabtree Date: 09/28/2020
Engineer License No. E-027441

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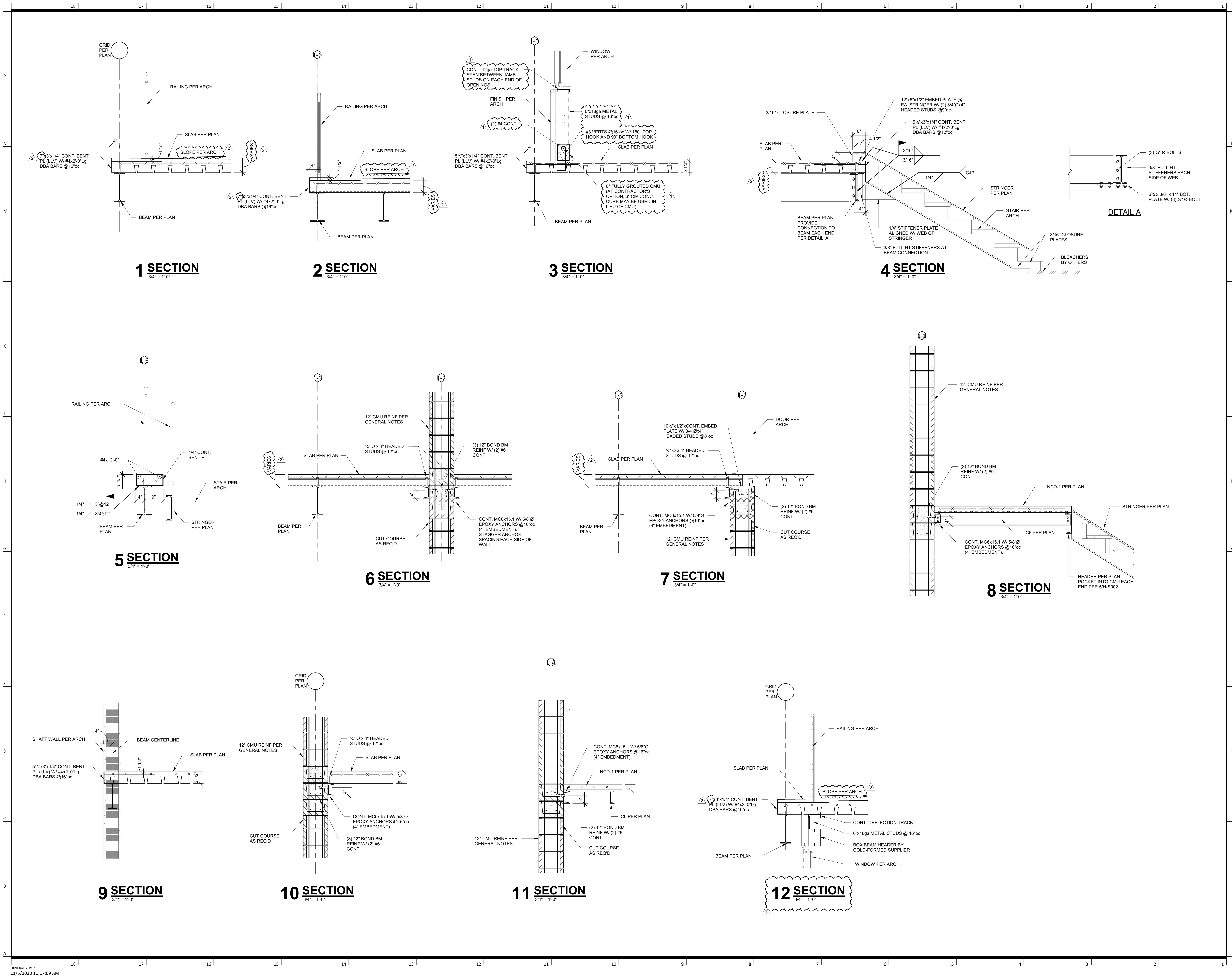
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| 1 | ADD03 | 10.30.2020 |
| 2 | ADD03 | 10.23.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections

H-S301

BID SET



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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www.gouldevans.com
structural engineer:
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civil engineer:
Kaw Valley Engineering
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913.485.0318

mechanical/electrical engineer:
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Lenexa, KS 66214
816.742.5000

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Jane Doe
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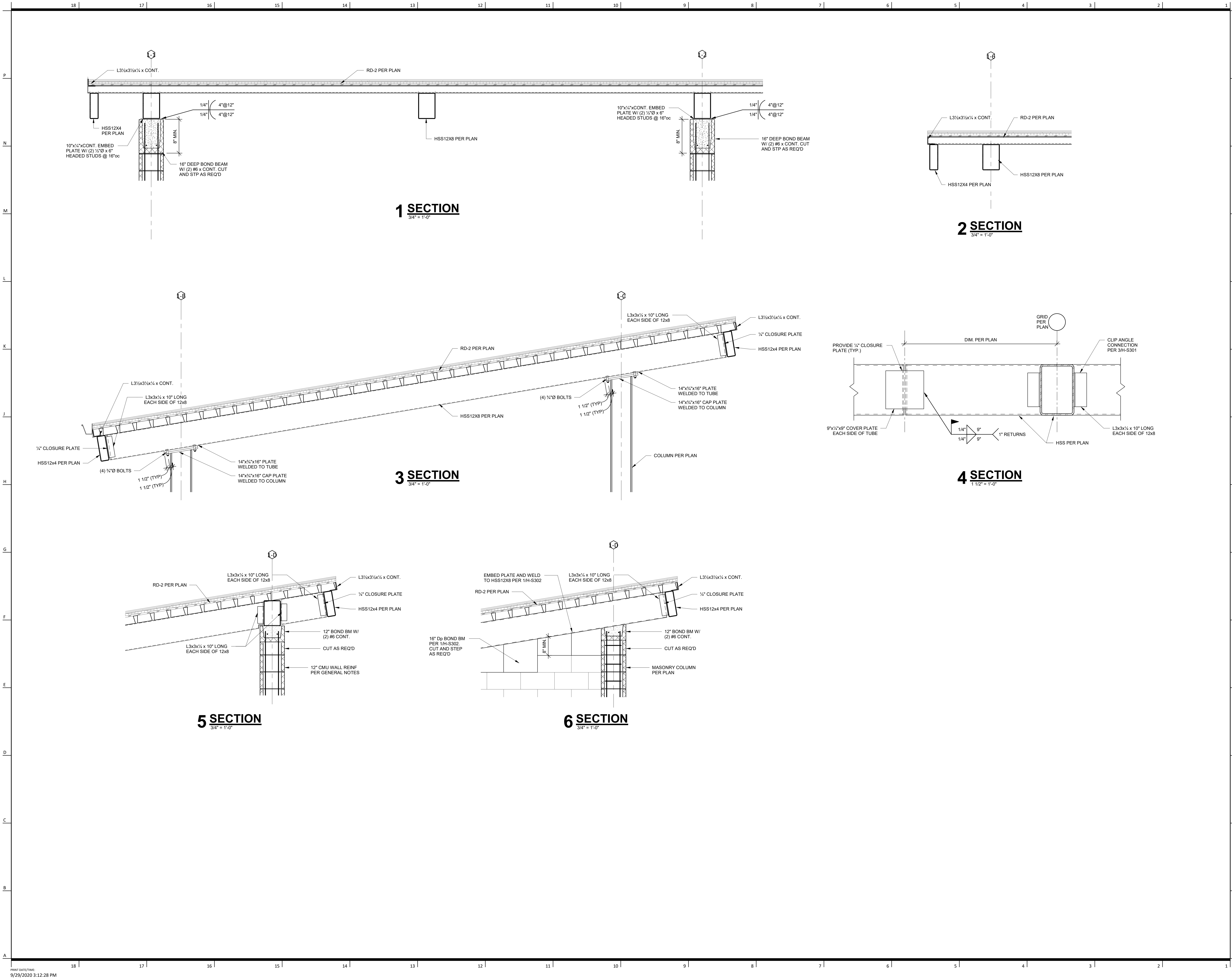
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections

H-S302

BID SET



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

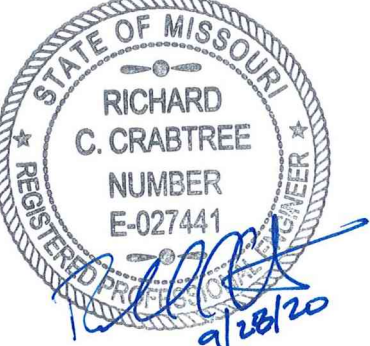
architect:
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structural engineer:
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civil engineer:
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mechanical/electrical engineer:
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Missouri License No. 2018022991
Richard C. Crabtree Date: 09/28/2020
Engineer License No. E-027441

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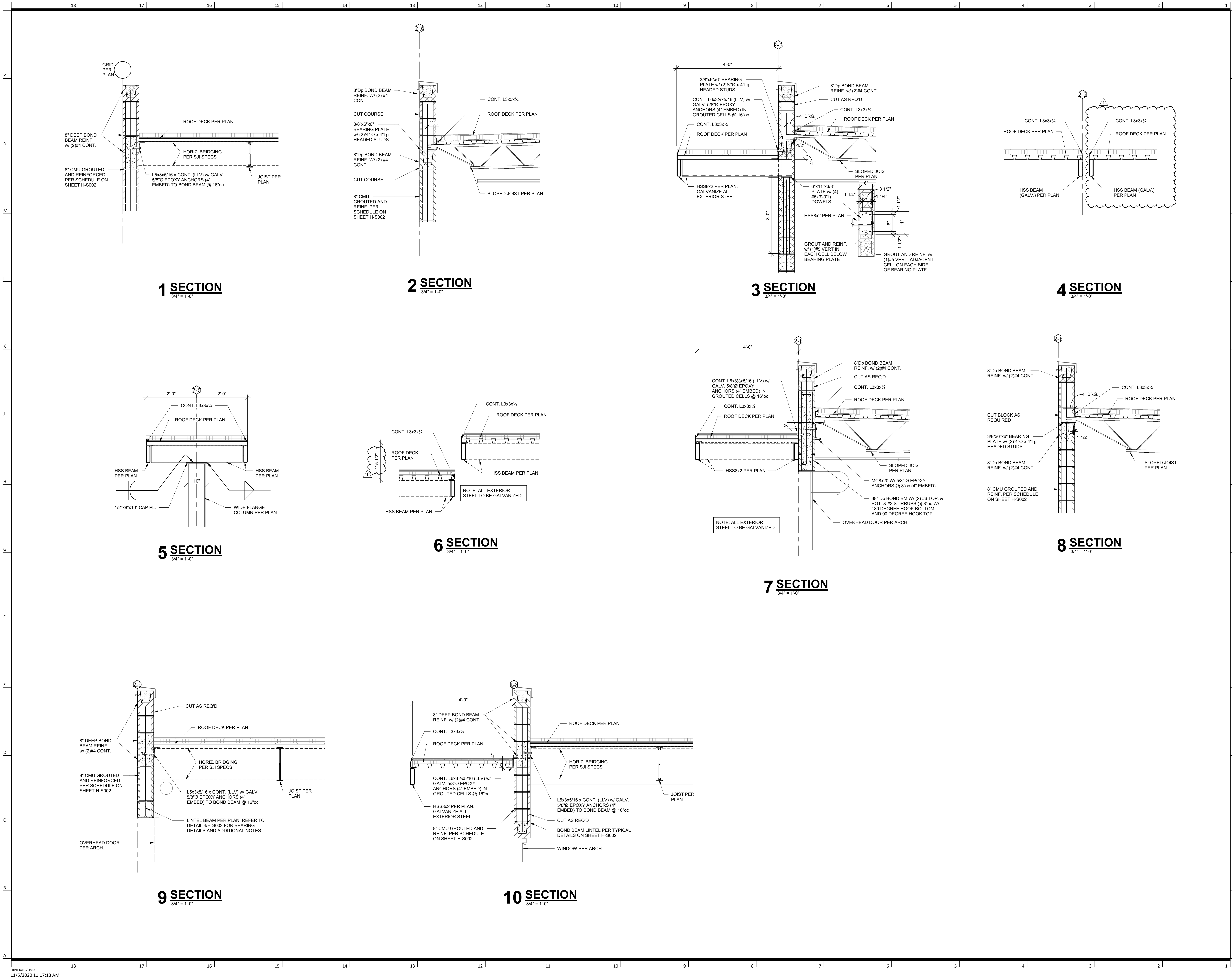
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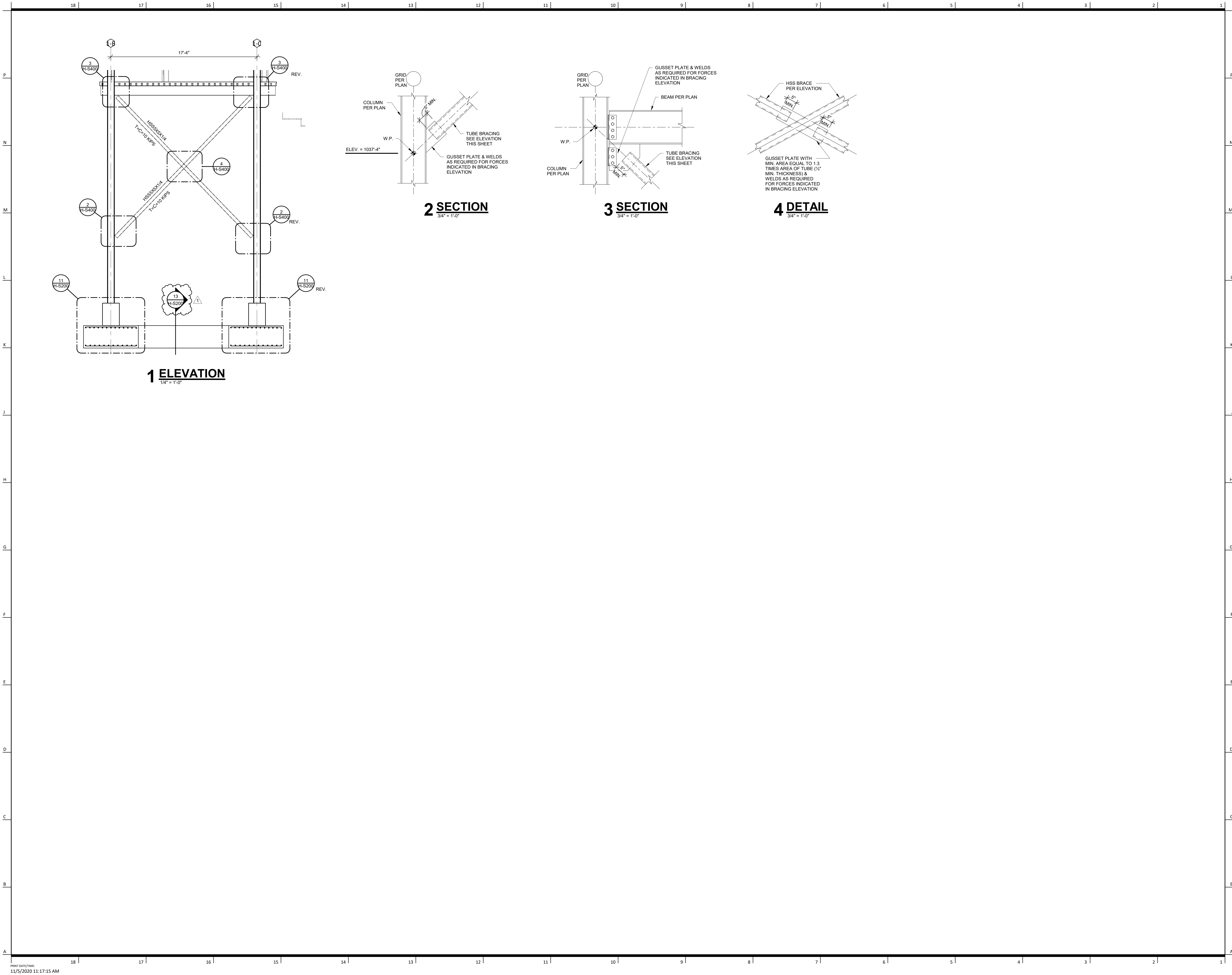
PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections

H-S303

BID SET





Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

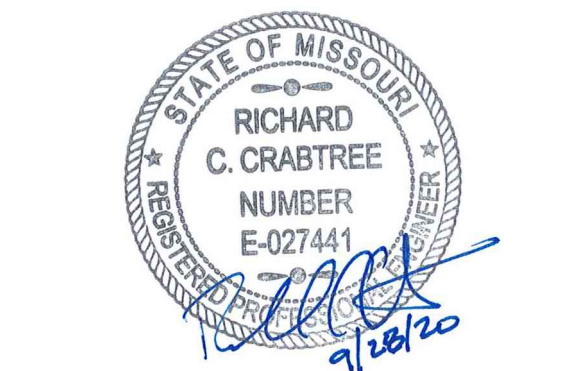
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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Kansas City, MO 64111
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www.gould-evans.com
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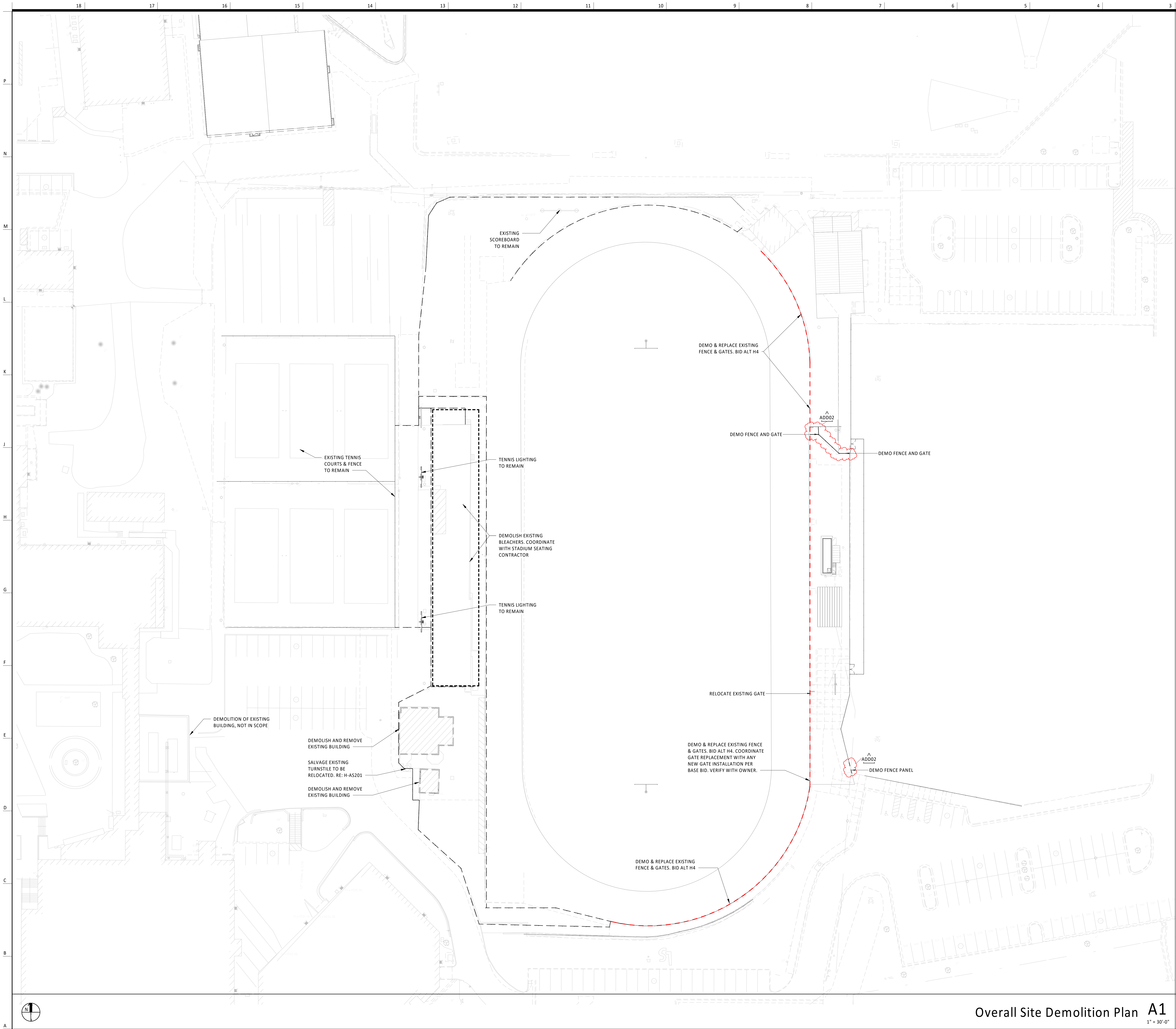
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| Number | DESCRIPTION | DATE |
| 1 | ADD | 10.30.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Elevations

H-S400

BID SET



- General Notes (Demo Site Plan):**
- DEMOLITION OF ELEMENTS ON THIS PLAN ARE LOCATED TO THE BEST OF OUR KNOWLEDGE AND SHOULD BE VERIFIED IN FIELD BEFORE BEGINNING DEMOLITION.
 - PROTECT SITE ELEMENTS THAT ARE EXISTING TO REMAIN FROM DAMAGE. INCLUDING BUT NOT LIMITED TO: EXISTING FENCE & GATES, EXISTING BLEACHERS, EXISTING ATHLETICS TRACK, EXISTING SCOREBOARD, ETC.
 - ALL GATES ASSOCIATED WITH FENCE TO BE DEMOLISHED SHALL ALSO BE DEMOLISHED, VERIFY IN FIELD.
 - ALL FENCE TO BE REPLACED IN PLACE SHALL ALSO HAVE ANY CORRESPONDING GATES REPLACED. RE: H-AS201, VERIFY IN FIELD.
 - FILL ALL POST HOLES AFTER DEMOLITION OF FENCE POSTS.

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**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64063

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Jay Browning
Architect License No. A-2009027279

REVISIONS

| Number | DESCRIPTION | DATE |
|--------|-------------|----------|
| ADD02 | Addendum 02 | 10/28/20 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Overall (Site)
Demolition Plans

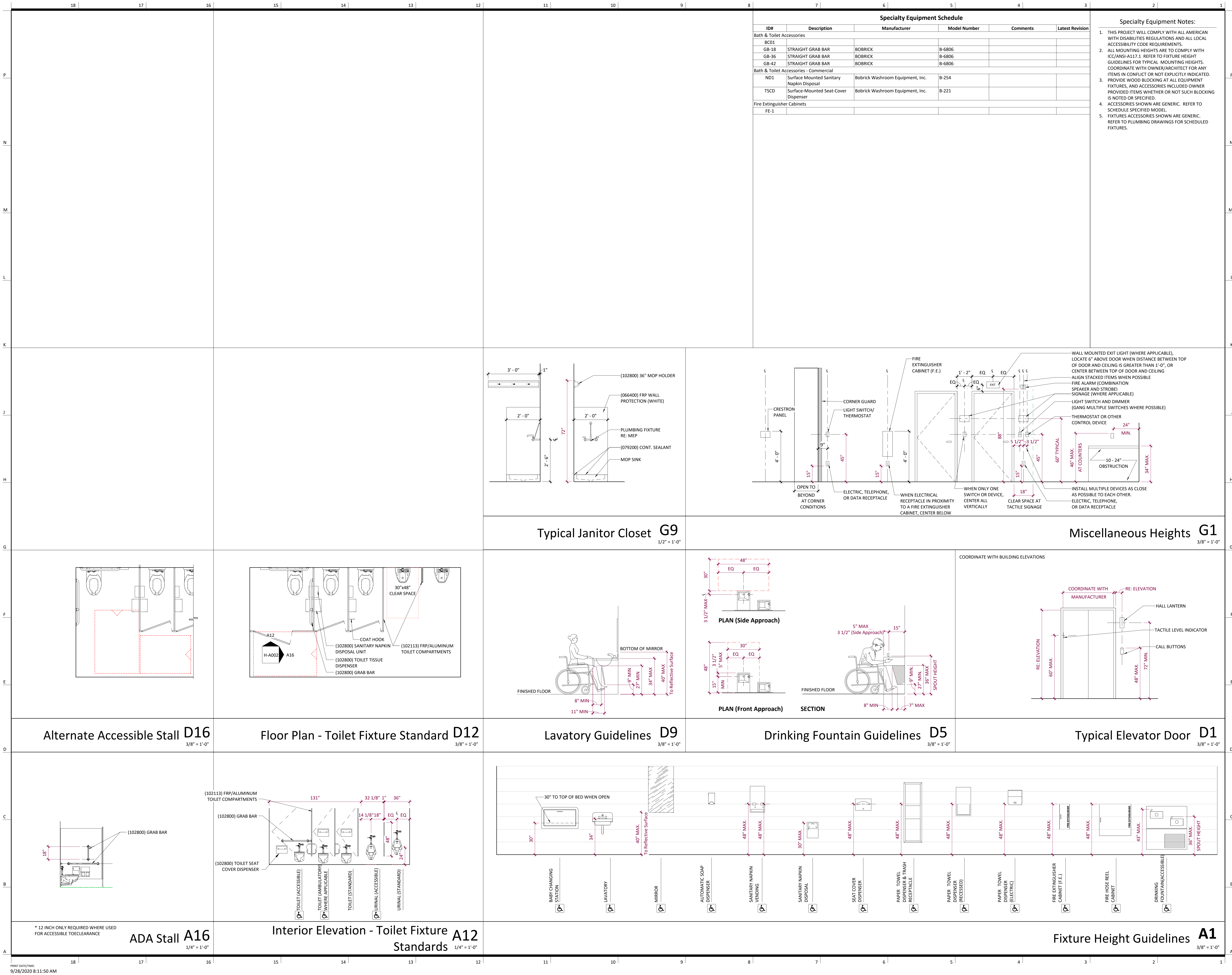
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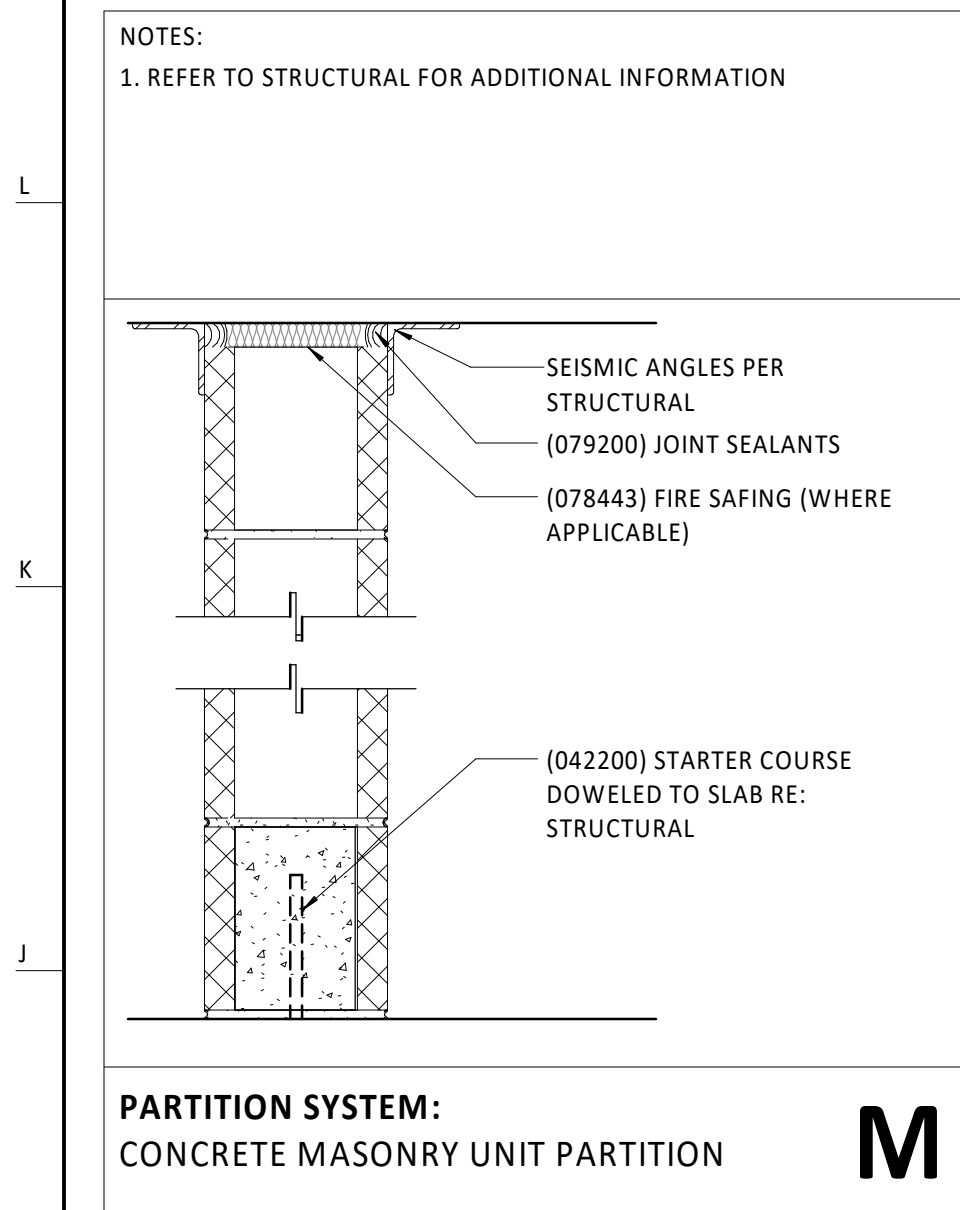
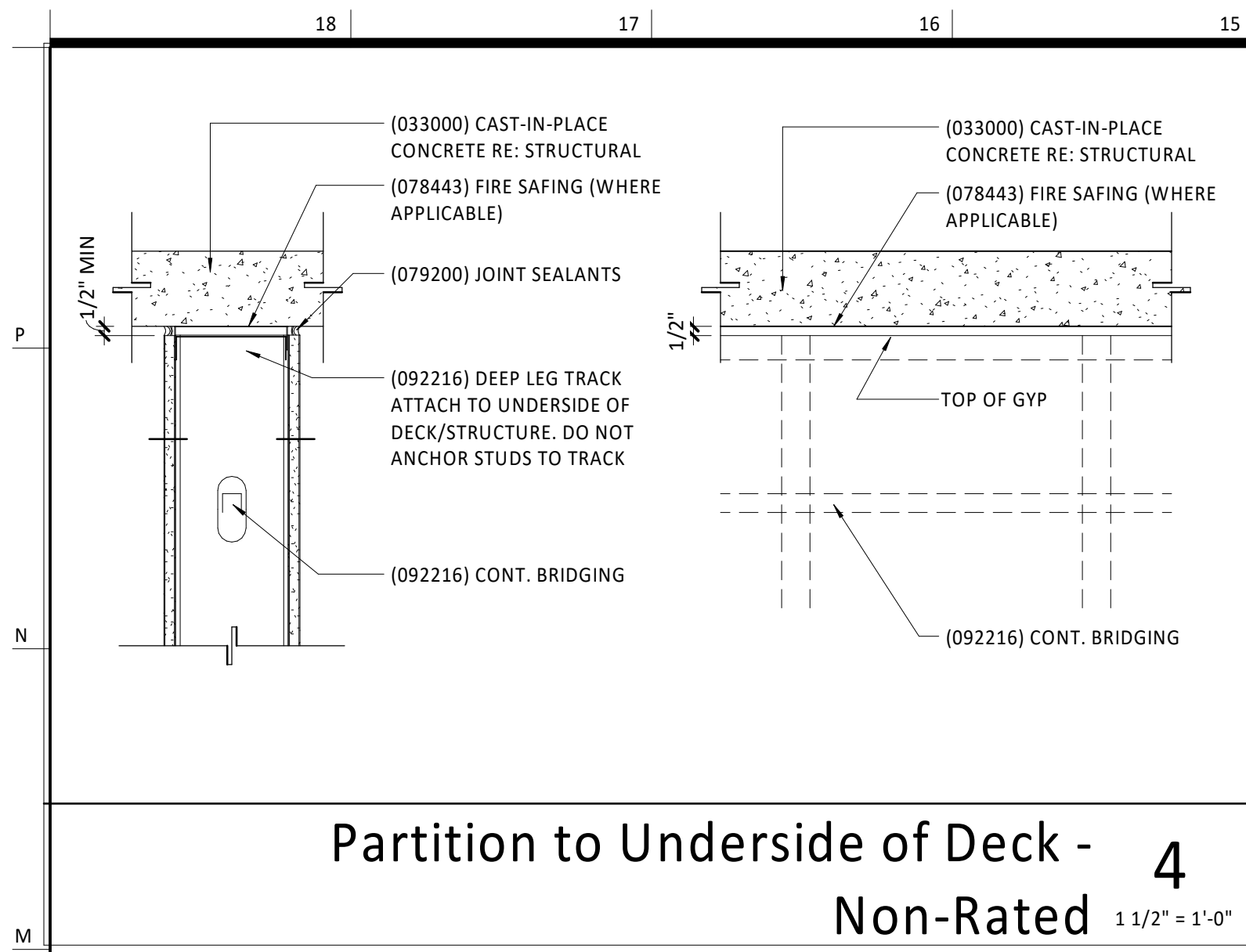
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| | 18 | 17 | 16 | 15 | 14 | 13 | 12 |
| | Abbreviations | | | | | | |
| | A | D | H | P | T | | |
| | @ | AT | HB | PA | T | | |
| | A/C | AIR CONDITION(ING) (ED) | HC | PAR | T & B | | |
| | A/C UNIT | AIR CONDITIONING UNIT | HCP | PARTIAL | T & G | | |
| | AB | ANCHOR BOLT | HD | PAT | TB | | |
| | ABVVR | | HDW | PATTERN | TECH | | |
| | ACC | ACCESSIBLE | HDWD | PC | TECHNICAL, TECHNOLOGY | | |
| | ACCU | AIR COOLED CONDENSING UNIT | HM | PERF | TEL | | |
| | ACI | AMERICAN CONCRETE INSTITUTE | HO | PERIM | TEMP | | |
| | | | HORIZ | PL | TEMPERARY, TEMPERATURE | | |
| | ACOUS | ACOUSTICAL INSULATION | HR | PL GL | TERR | | |
| | INSUL | | HSS | PLATE GLASS | THERM | | |
| | ACOUS PNL | ACOUSTICAL PANEL | HT | PLAM | THK | | |
| | ACST | ACOUSTIC | HVAC | PLAS | THRU | | |
| | ACT | ACOUSTICAL CEILING TILE | HW | PLBG | TK BD | | |
| | ADA | AMERICANS WITH DISABILITIES ACT | HYD | PLYWD | TMPD | | |
| | | | | POL | TMPD GL | | |
| | ADDL | ADDITIONAL | | POLISHED | TOC | | |
| | ADDM | ADDENDUM | | POLY | TOF | | |
| | ADH | ADHESIVE | | PORC | TOP OF FOOTING, TOP OF FLOOR, TOP OF FRAME | | |
| | ADJ | ADJUSTABLE, ADJACENT | | PORT | TOM | | |
| | AE | ARCHITECT/ ENGINEER | | POS | TOPO | | |
| | AFF | ABOVE FINISHED FLOOR | | PR | TOS | | |
| | AGGR | AGGREGATE | | PRCST | TPD | | |
| | AHJ | AUTHORITY/HAVING JURISDICTION | | PREFAB | TV | | |
| | | | | PREFIN | TYP | | |
| | AHU | AIR HANDLING UNIT | | PRELIM | | | |
| | AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | | PRKG | U | | |
| | | | | PROJ | U | | |
| | ALT | ALTERNATE | | PROP | UC | | |
| | ALUM | ALUMINUM | | PSF | UNDERCUT | | |
| | ANOD | ANNOIDIZED | | PSI | UGND | | |
| | APC | ACOUSTICAL PANEL CEILING | | POLY | UH | | |
| | ARCH | ARCHITECT[URAL] | | PT | UNIT | | |
| | ASL | ABOVE STRUCTURAL LEVEL | | PTD | UNDERWRITERS LABORATORIES | | |
| | AWT | ACOUSTICAL WALL TREATMENT | | PTN | UNFIN | | |
| | | | | PVC | UNO | | |
| | | | | PWR | UTIL | | |
| | | | | | UV | | |
| | | | | | | | |
| | B | | | | V | | |
| | B BD | BASE BOARD | | Q | V | | |
| | B/B | BACK-TO-BACK | | QT | VOLT | | |
| | BAT | BATTEN | | QTR | VVARIES, VARIATION | | |
| | BD | BOARD | | QTY | VB | | |
| | BDRM | BEDROOM | | R | VINYL BASE | | |
| | BITUM | BITUMINOUS | | | VENT | | |
| | BLDG | BUILDING | | R | VERT | | |
| | BLKG | BLOCKING | | R | VEST | | |
| | BM | BENCHMARK, BEAM | | RA | VIF | | |
| | BOT | BOTTOM | | RAD | VOC | | |
| | BRG | BEARING | | RB | VOLATILE ORGANIC COMPOUND | | |
| | BRZ | BRONZE | | RC | VOL | | |
| | BSMT | BASEMENT | | RCP | VOR | | |
| | BTWN | BETWEEN | | REF | VAPOR RETARDER | | |
| | BUR | BUILT-UP ROOFING | | REC | VHM | | |
| | BW | BOTH WAYS | | REC RM | VWC | | |
| | | | | REF | | | |
| | | | | REG | W | | |
| | C | | | REINF | W | | |
| | CAB | CABINET | | REQD | W/ | | |
| | CB | CARRIAGE BOLT, CATCH BASIN | | RESIL | W/O | | |
| | CCTV | CLOSED-CIRCUIT TELEVISION | | REV | W/W | | |
| | CD | CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS | | RFI | WB | | |
| | CEM | CEMENT | | RFM | WOOD BASE | | |
| | CERT | CERTIFY, CERTIFICATE, CERTIFICATION | | RFI | WOOD COVERING, WATER CLOSET | | |
| | CF/CI | CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED | | RF | WC | | |
| | CF/OI | CONTRACTOR FURNISHED/ OWNER INSTALLED | | ROW | WOOD | | |
| | | | | RTU | WDF | | |
| | CG | CORNER GUARD | | RV | WH | | |
| | CH | COAT HOOK | | RWB | WI | | |
| | CHBD | CHALK BOARD | | | WROUGHT IRON | | |
| | CHEM | CHEMICAL | | | WM | | |
| | CI | CAST IRON | | | WP | | |
| | CIP | CAST-IN-PLACE | | | WR | | |
| | CI | CONTROL JOINT, CONSTRUCTION JOINT | | | WR | | |
| | | | | | WST | | |
| | CL | CENTER LINE | | | WT | | |
| | CLO | CEILING | | | WWF | | |
| | CLO | CLOSET | | | WWM | | |
| | CLR | CLEAR | | | | | |
| | CLRM | CLASSROOM | | | | | |
| | CMU | CONCRETE MASONRY UNIT | | | | | |
| | CNR | CORNER | | | | | |
| | CNTR | COUNTER | | | | | |
| | COL | COLUMN | | | | | |
| | CONC | CONCRETE | | | | | |
| | CONF | CONFERENCE | | | | | |
| | CONN | CONNECT(ION) | | | | | |
| | CONSTR | CONSTRUCTION | | | | | |
| | CONT | CONTINUOUS | | | | | |
| | CONTR | CONTRACT(OR) | | | | | |
| | COORD | COORDINATE, COORDINATION | | | | | |
| | CORR | CORRIDOR | | | | | |
| | CPT | CARPET | | | | | |
| | CSK | COUNTERSINK | | | | | |
| | CSWK | CASEWORK | | | | | |
| | CT | CERAMIC TILE | | | | | |
| | CTR | CENTER | | | | | |
| | CTRL | CONTROL | | | | | |
| | CU | CUBIC | | | | | |
| | CUH | CABINET UNIT HEATER | | | | | |
| | CUST | CUSTODIAL | | | | | |
| | CW | COLD WATER, CASEMENT WINDOW | | | | | |
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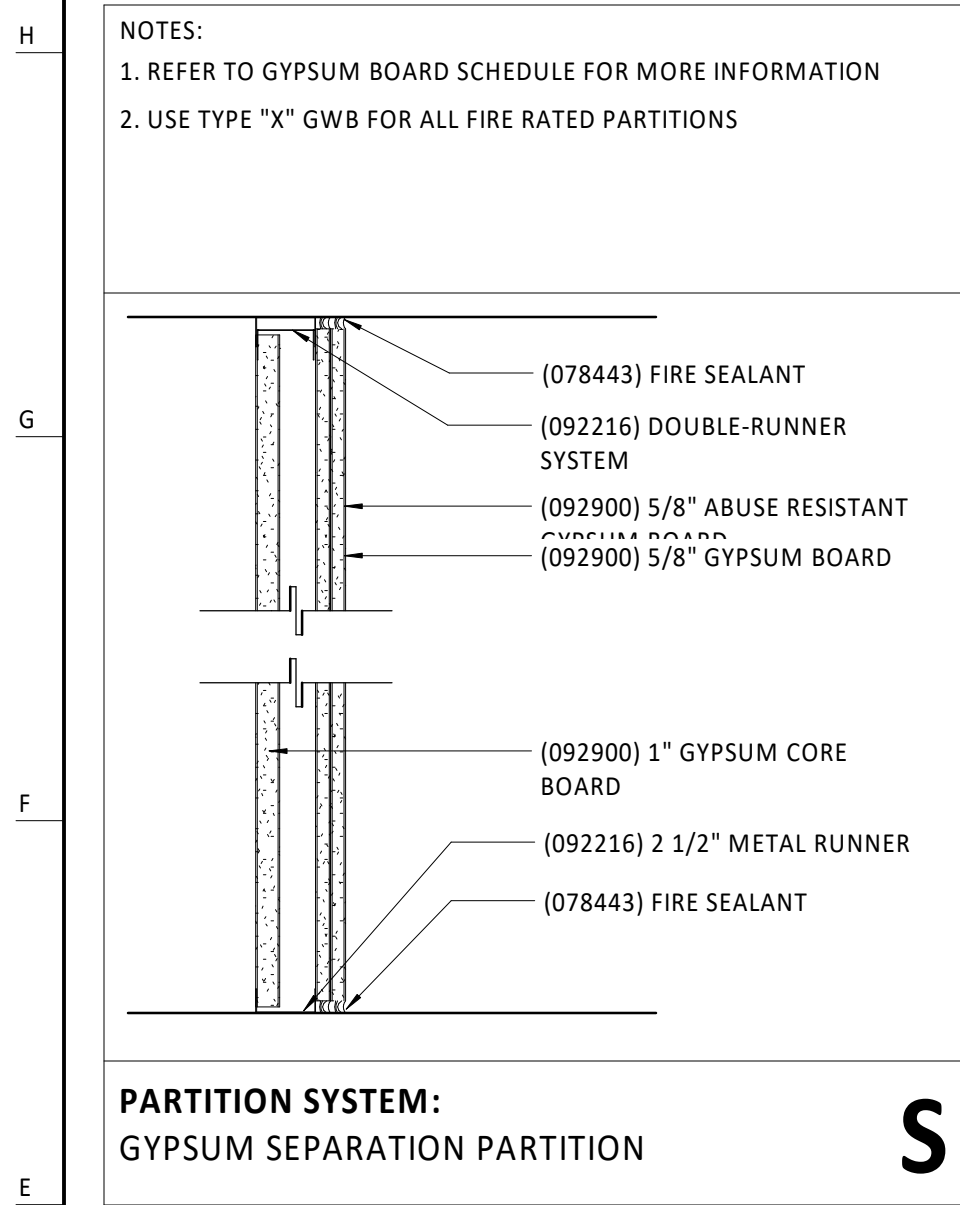
| Graphic Symbols | | Materials Graphics | |
|--------------------|--------------------------------|---|----------------------------------|
| 01 GENERAL | | 02 SITE CONSTRUCTION | |
| | NEW WALL | | EARTH (existing) |
| | EXISTING WALL TO BE REMOVED | | EARTH (backfill) |
| | EXISTING WALL | | DRAINAGE FILL |
| 03 CONCRETE | | 04 MASONRY | |
| | BUILDING SECTION | | BRICK |
| | WALL SECTION | | CONCRETE MASONRY UNITS |
| | DETAIL SECTION | | GLASS BLOCK |
| | DETAIL REFERENCE | | STONE |
| | EXTERIOR ELEVATION TAG | | CAST STONE |
| | INTERIOR ELEVATION TAG | | GROUT |
| | BREAK LINE | 05 METALS | |
| | ROOM TAG | | ALUMINUM |
| | INTERIOR PARTITION TYPE SYMBOL | | STEEL |
| | WINDOW TYPE SYMBOL | 06 WOODS AND PLASTICS | |
| | BENCHMARK/SPOT ELEV. SYMBOL | | CONTINUOUS WOOD |
| | COLUMN LINE/GRID INDICATOR | | INTERMITTENT WOOD |
| | REVISION INDICATOR | | FINISH WOOD |
| | DOOR TAG | | HARDBOARD |
| | FLOOR LEVEL SYMBOL | | MEDIUM DENSITY FIBER BOARD (MDF) |
| | CEILING HEIGHT SYMBOL | | PARTICLE BOARD |
| | PLAN NORTH | | PLYWOOD |
| | NORTH ARROWS | | SOLID SURFACE MATERIAL |
| | DIMENSION | 07 THERMAL & MOISTURE PROTECTION | |
| | ALIGN TWO WALLS OR OBJECTS | | BATT INSULATION |
| | | | LOOSE FILL INSULATION |
| | | | RIGID INSULATION |
| | | 08 GLAZING | |
| | | | GLASS |
| | | 09 FINISHES | |
| | | | LATH AND PLASTER |
| | | | GYPSUM BOARD |

[illegible]

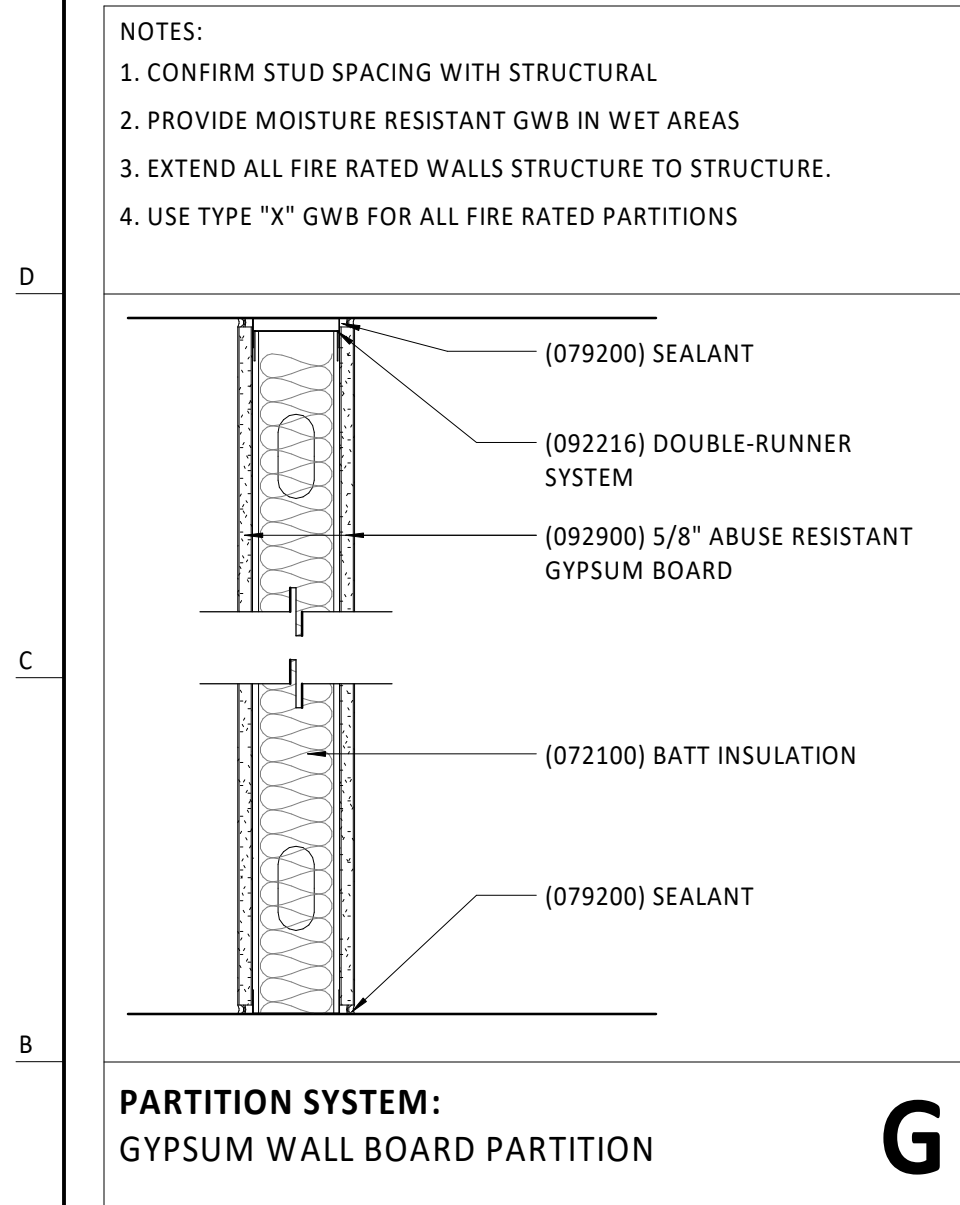




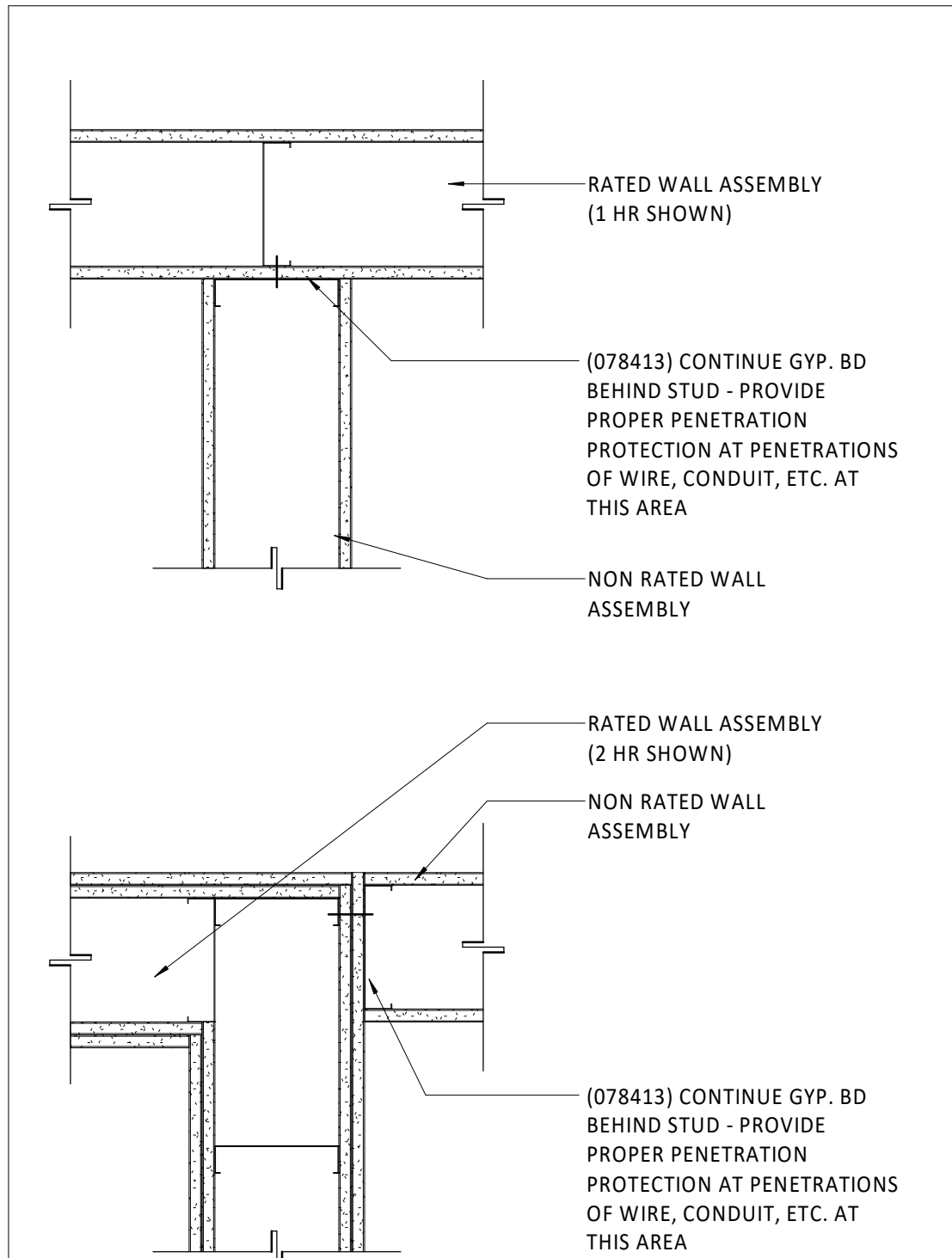
| PARTITION IDENTIFICATION PLAN SYMBOL | M6 | M8 | M12 |
|--------------------------------------|--------|--------|---------|
| BASE PARTITION THICKNESS | 5 5/8" | 7 5/8" | 11 5/8" |
| MASONRY MATERIAL | CMU | CMU | CMU |
| MASONRY SIZE (NOMINAL) | 6X8X16 | 8X8X16 | 12X8X16 |
| BEARING WALL | - | - | - |
| FIRE RATING (HRS) | - | - | - |
| FIRE TEST NUMBER | - | - | - |
| FIRE TEST NUMBER (HEAD OF WALL) | - | - | - |
| (078443) FIRE RESISTIVE JOINTS | - | - | - |
| TO 6" ABOVE CEILING | NO | NO | NO |
| TO STRUCTURE ABOVE | YES | YES | YES |
| REMARKS: | | | |



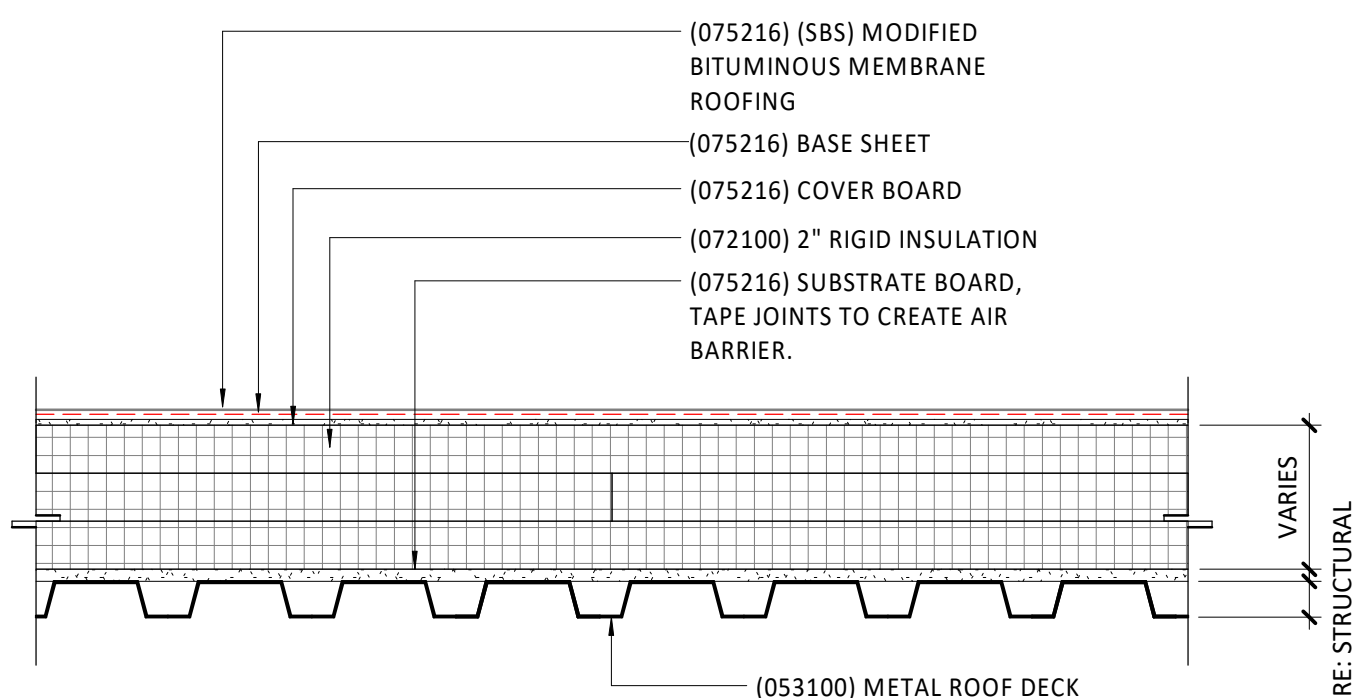
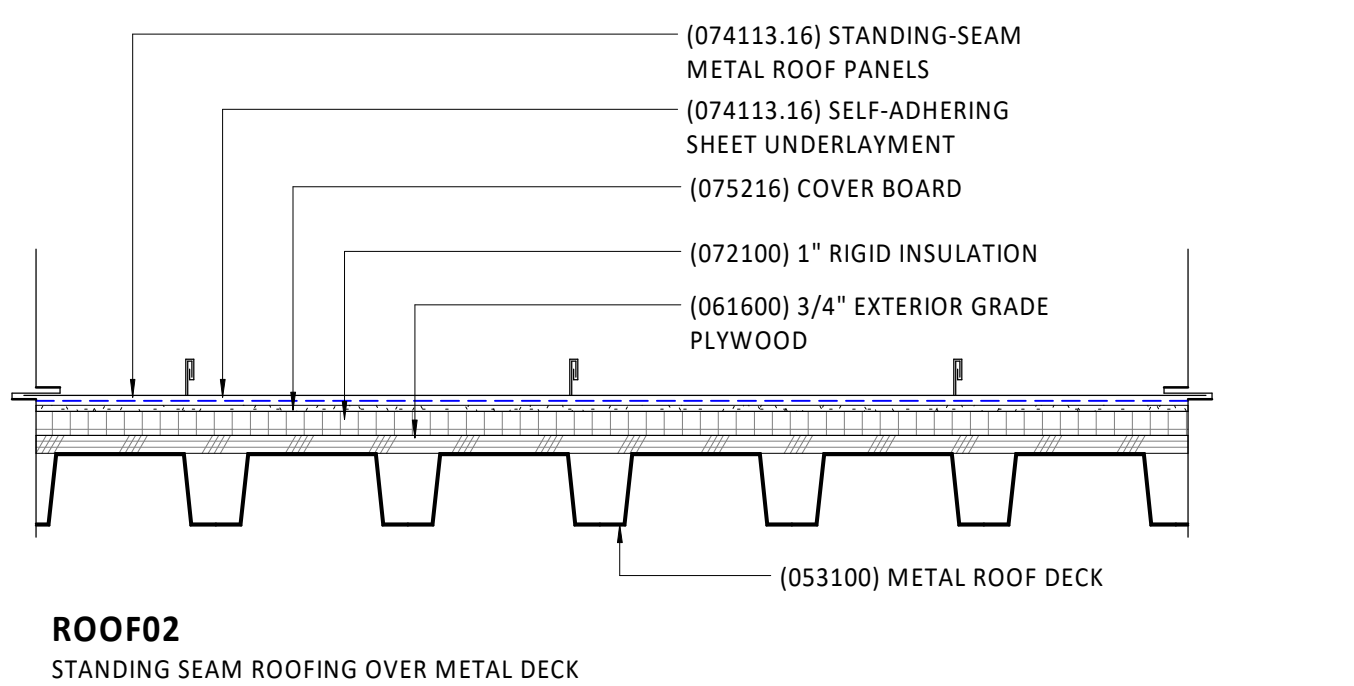
| PARTITION IDENTIFICATION PLAN SYMBOL | S6 |
|--------------------------------------|----------|
| BASE PARTITION THICKNESS | 5 1/4" |
| STUD SPACING (O.C.) | 16" |
| STUD SIZE | 4" CH |
| GWB THICKNESS | (2) 5/8" |
| SHAFT LINER THICKNESS | - |
| FIRE RATING (HRS) | - |
| FIRE TEST NUMBER | 2 |
| FIRE TEST NUMBER (HEAD OF WALL) | UL-U438 |
| (078443) FIRE RESISTIVE JOINTS | YES |
| TO STRUCTURE ABOVE | NO |
| TO STRUCTURE ABOVE | NO |
| REMARKS: | YES |



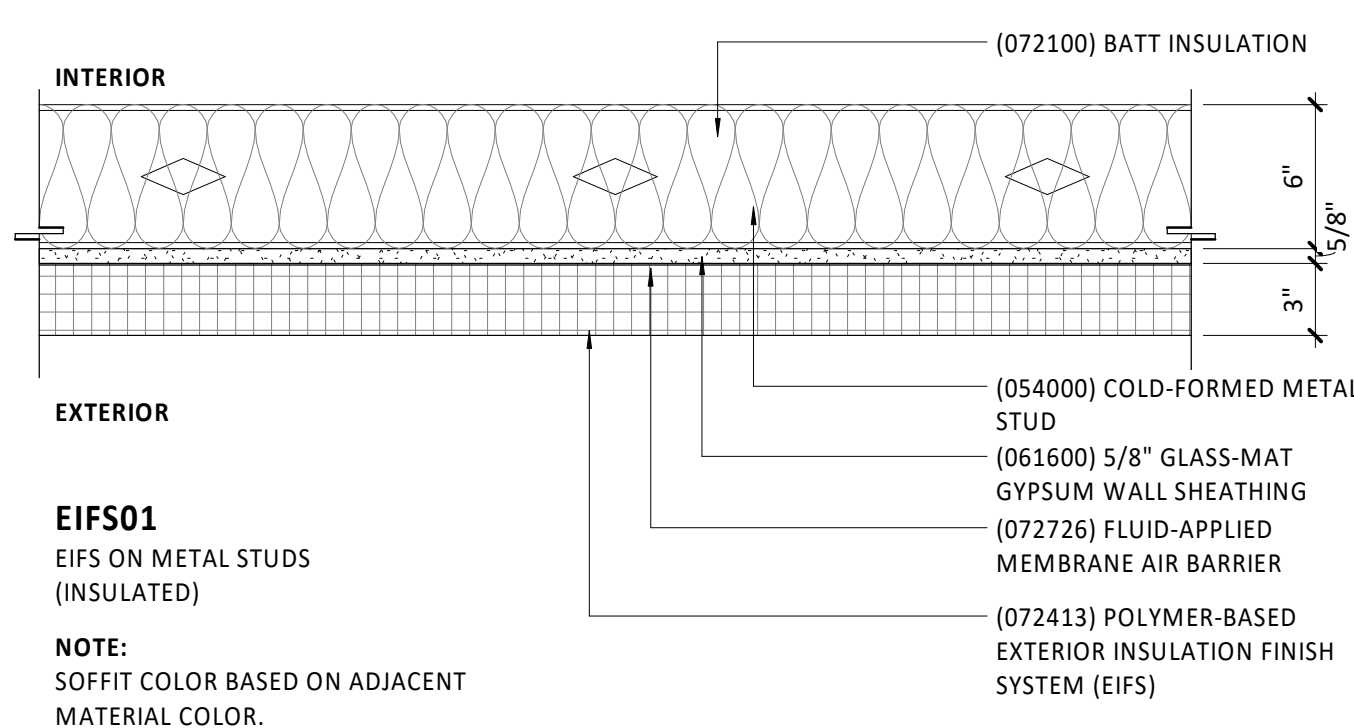
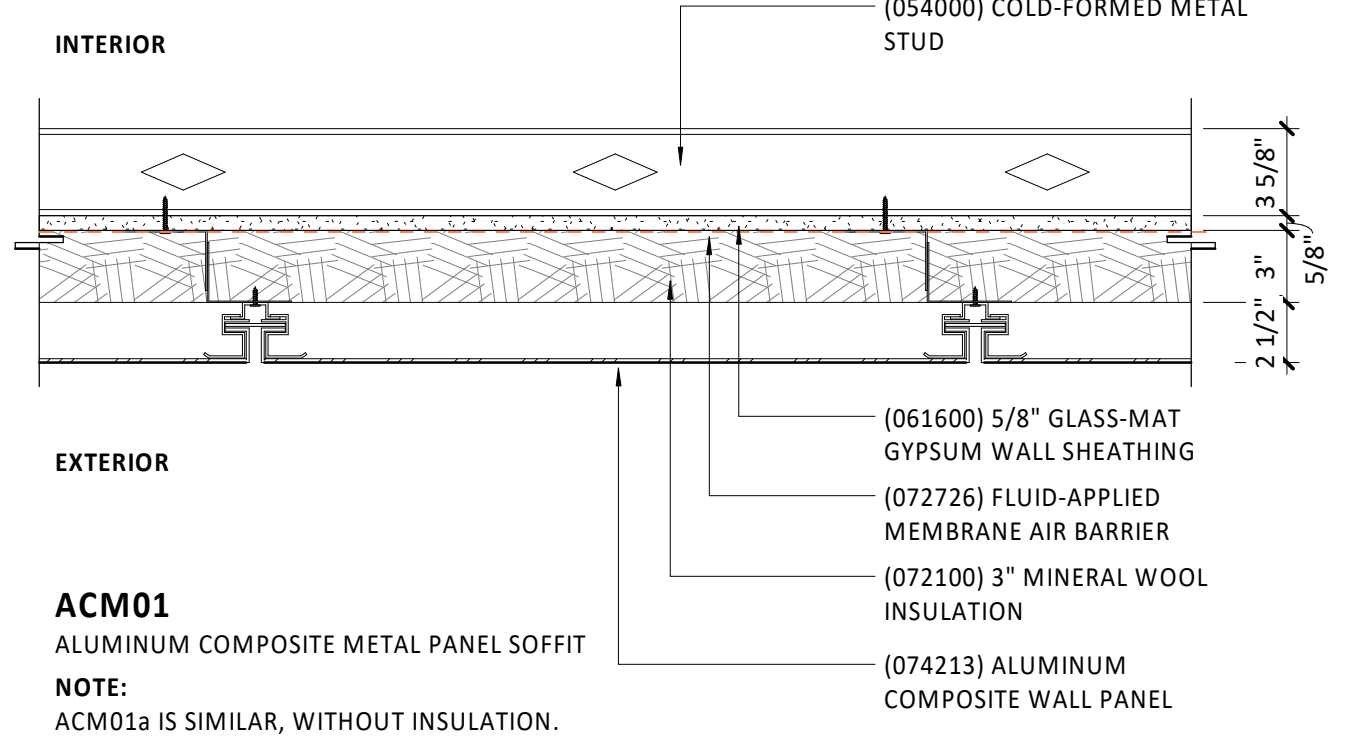
| PARTITION IDENTIFICATION PLAN SYMBOL | G4a |
|--------------------------------------|---------|
| BASE PARTITION THICKNESS | 4 7/8" |
| STUD SPACING (O.C.) | 16" |
| STUD SIZE | 3 5/8" |
| GWB THICKNESS | 5/8" |
| FIRE RATING (HRS) | - |
| FIRE TEST NUMBER | - |
| FIRE TEST NUMBER (HEAD OF WALL) | - |
| (078443) FIRE RESISTIVE JOINTS | - |
| ACOUSTIC RATING (STC) | 44 |
| ACOUSTICAL TEST NUMBER | NGC2514 |
| RESILIENT CHANNELS | NO |
| INSULATION THICKNES | 2 1/2" |
| ACOUSTICAL JOINTS (079219) | YES |
| TO 6" ABOVE CEILING | NO |
| GWB STRUCTURE ABOVE | YES |
| STUDS TO STRUCTURE ABOVE | YES |
| REMARKS: | |



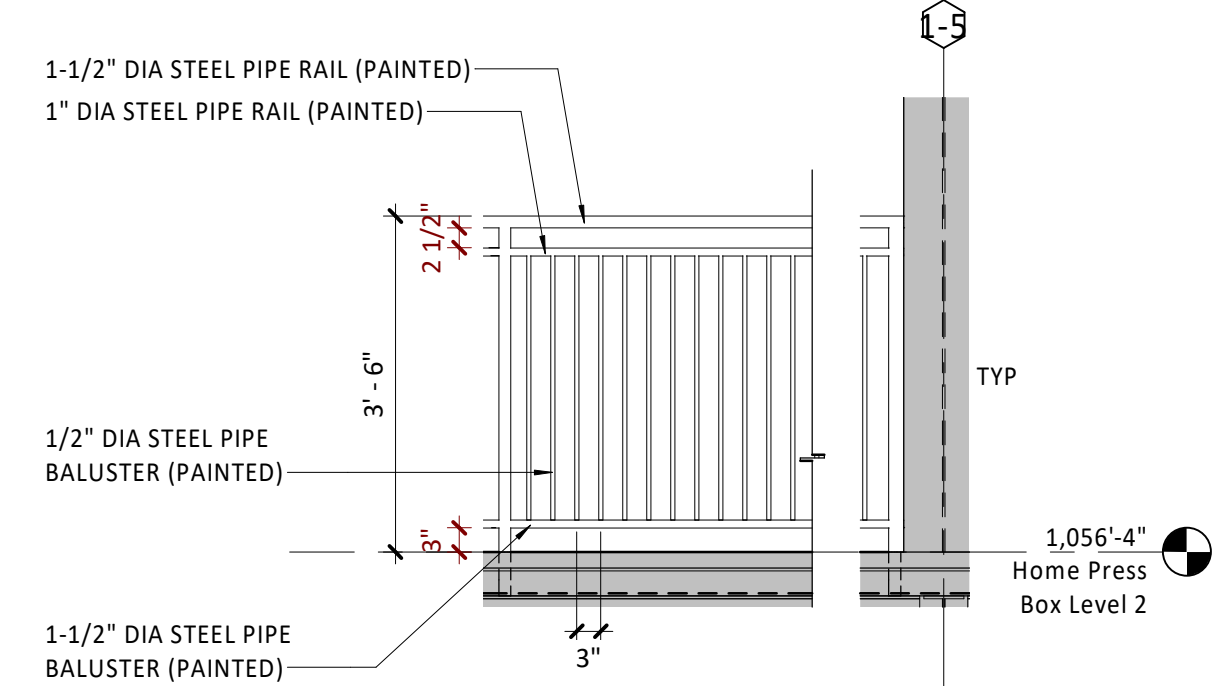
Wall Intersections A11
1 1/2" = 1'-0"



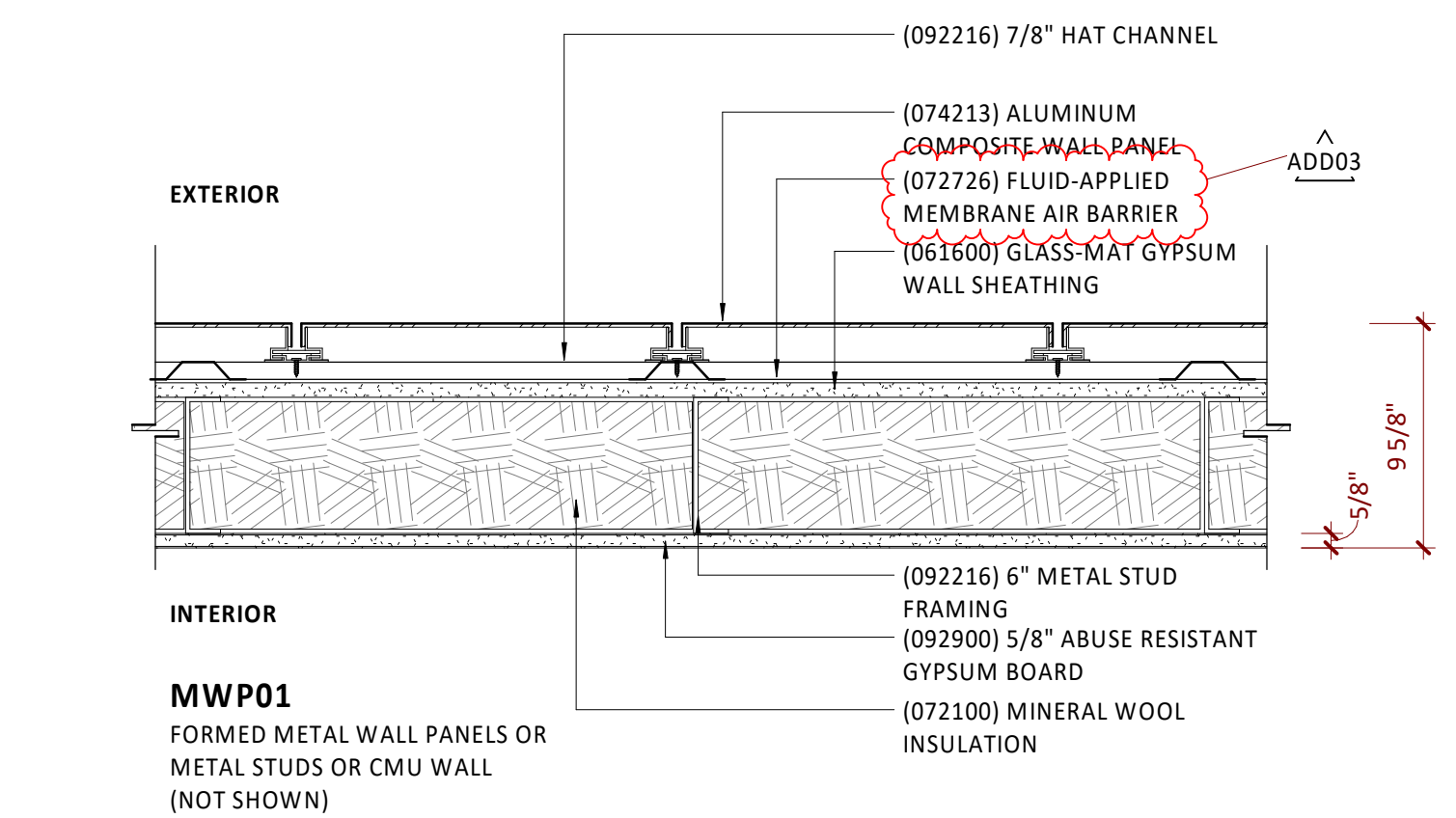
Roof Types G7
1 1/2" = 1'-0"



Interior Soffit Types A7
1 1/2" = 1'-0"



Typical Railing Elevation D3
1/2" = 1'-0"



Exterior Wall Types A3
1 1/2" = 1'-0"

- General Notes (Exterior Enclosure):
- ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATERTIGHT.
 - ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.
 - PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

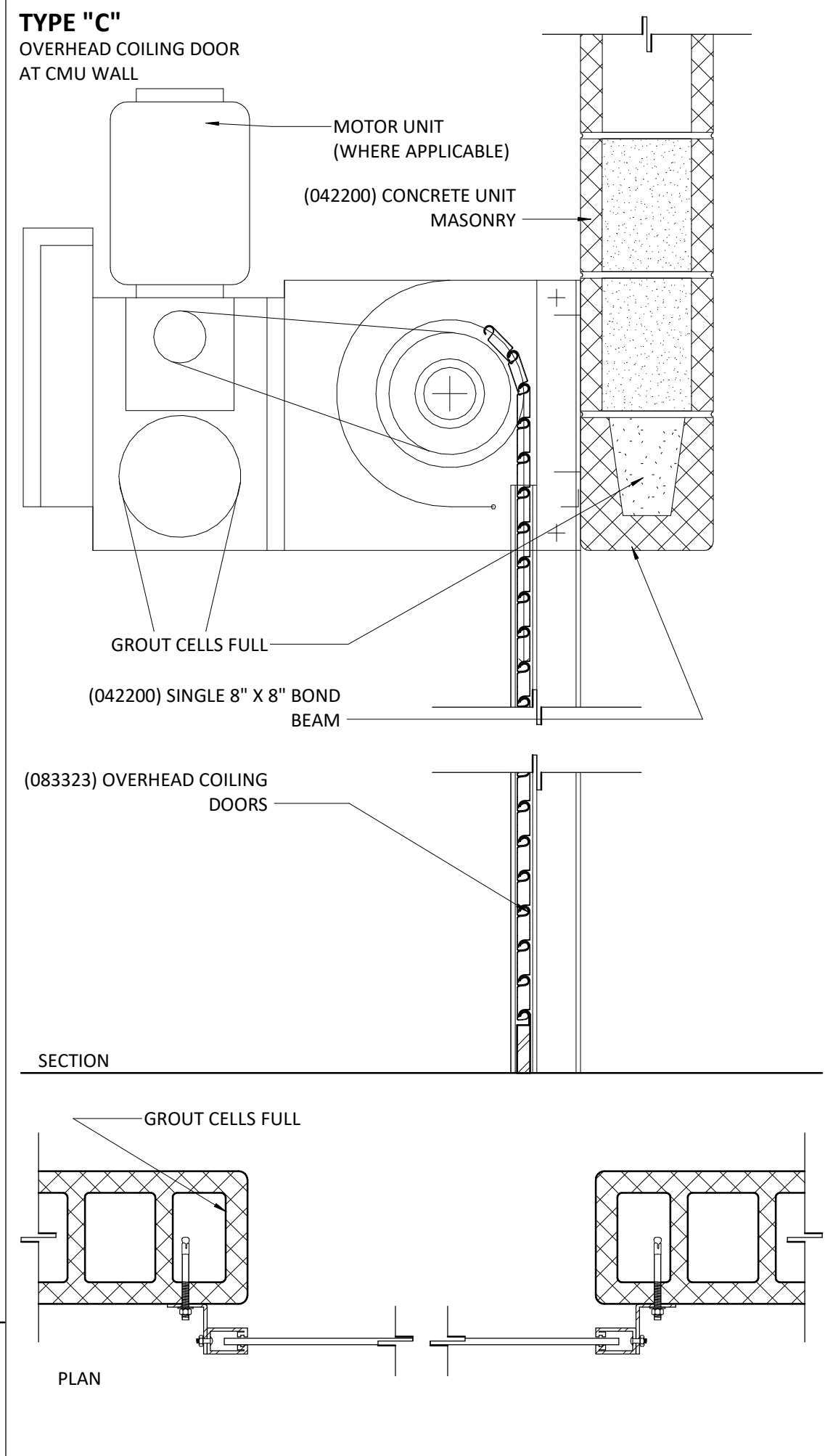
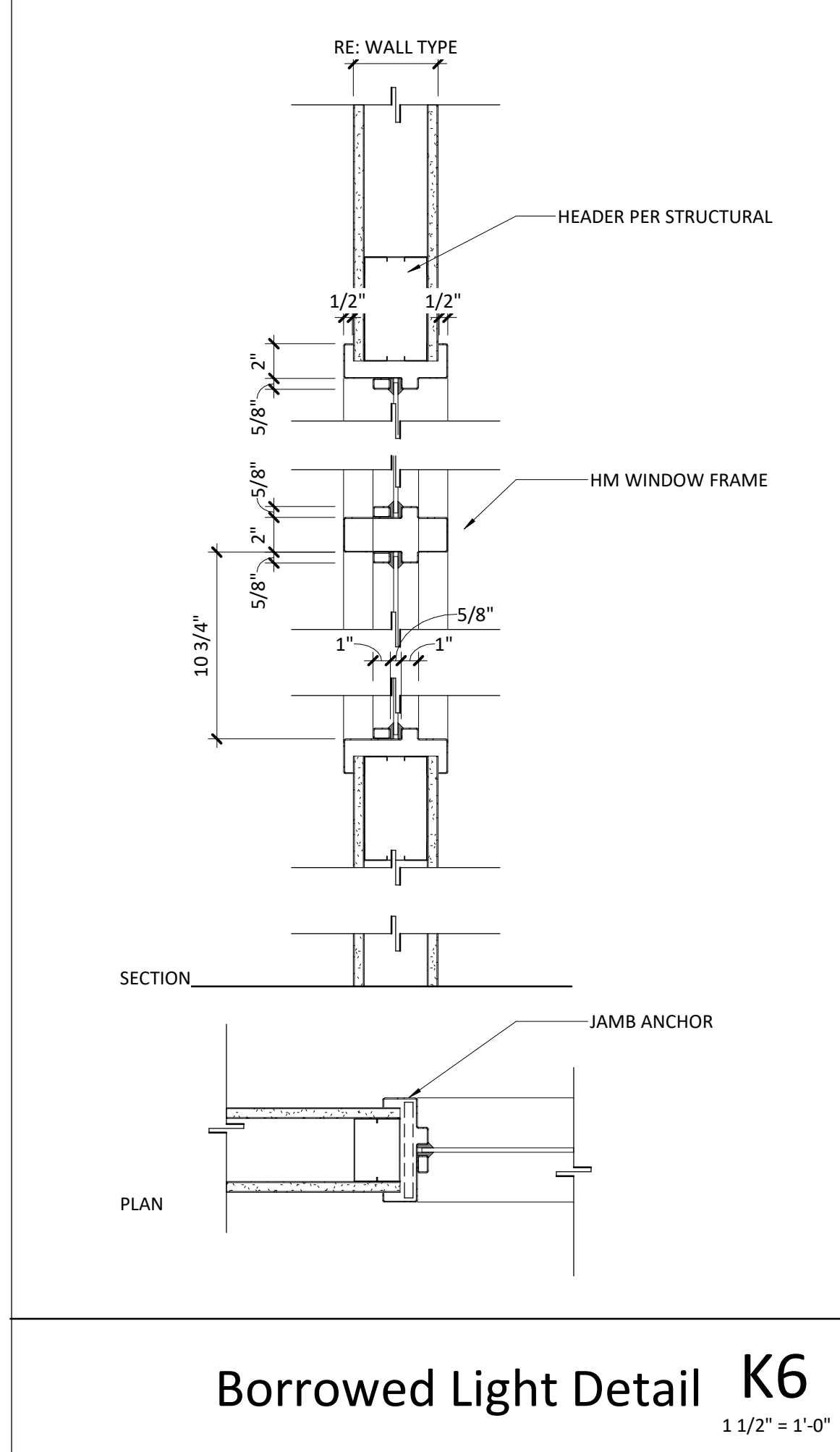
- General Notes (Interior Partitions):
- REFER TO PLANS/CODE PLANS FOR PARTITION TYPE LOCATIONS.
 - PARTITION TYPES DESIGNATED ON PLANS SHALL RUN FROM CORNER TO CORNER UNLESS OTHERWISE NOTED.
 - PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE AND SHALL BE CONSTRUCTED TO ACCOMMODATE DEFLECTION UNLESS NOTED OTHERWISE.
 - FIRE-RESISTANCE-RATED PARTITIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REFERENCED ASSEMBLY DESCRIPTION. REFER TO CODE PLANS FOR MORE INFORMATION.
 - FIRE-RATED WALLS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH SIGNAGE SHOULD BE ABOVE ACCESSIBLE CEILINGS AND/OR BELOW ACCESSIBLE FLOORS.
 - WHERE DIFFERENT PARTITION TYPES INTERSECT, THE PARTITION TYPE WITH THE GREATER FIRE-RESISTANCE RATING SHALL CONTINUE WITHOUT INTERRUPTION.
 - PENETRATIONS OF FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRE-RATED PENETRATION PROTECTION IN ACCORDANCE WITH AN APPROVED UNDERWRITERS LABORATORY SYSTEM.
 - FIRE DAMPERS OR FIRE DOORS SHALL BE PROVIDED WHERE AIR DUCTS OR OPENINGS PENETRATE FIRE-RATED PARTITIONS.
 - AT ALL WET AREAS AND LOCATIONS TO RECEIVE TILE. COORDINATE THE SUBSTRATE MATERIAL WITH PROJECT MANUAL. EXTEND THE SUBSTRATE A MINIMUM OF 4'-0" BEYOND THE WET AREA.
 - USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS, CONDUIT, JUNCTION BOXES, ETC. ON BOTH SIDES OF CROSSING / PENETRATING WALLS WITH ACOUSTICAL RATINGS. COLOR MATCH SEALANT TO THE ADJACENT WALL COLOR.
 - PROVIDE IMPACT RESISTANT TRIM OR CASING AT ALL EDGES OF PLASTER AND GYPSUM BOARD SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.
 - PROVIDE IMPACT RESISTANT CORNER BEADS AT ALL OUTSIDE CORNERS OF PLASTER AND GYPSUM BOARD SURFACES, UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO PROVIDE WOOD BLOCKING BEHIND ALL TOILET ROOM ACCESSORIES, GRAB BARS, HANDRAILS, WOOD TRIM, AND WALL MOUNTED FIXTURES.
 - INSTALL CONTROL JOINTS IN GYPSUM BOARD CONSTRUCTION AS SHOWN ON THE DRAWINGS AND IN PARTITIONS AND WALL FURRING RUNS EXCEEDING 30 FEET, SPACING CONTROL JOINTS NOT MORE THAN 30 FEET O.C. VERIFY LOCATIONS WITH ARCHITECT. INSTALL CONTROL JOINTS IN FURRED ASSEMBLIES WHERE CONTROL JOINTS OCCUR IN BASE EXTERIOR WALL.

| Gypsum Board Schedule | |
|----------------------------------|--|
| 5/8" GYPSUM BOARD | ALL LOCATIONS UNLESS NOTED BELOW OR DETAILED OTHERWISE. |
| 5/8" ABUSE RESISTANT GYPSUM | HIGH TRAFFIC AREAS SUCH AS LOBBIES, PUBLIC CORRIDORS AND WORK ROOMS SUCH AS: JANITOR, HOUSEKEEPING, MECHANICAL, ETC. |
| 5/8" GLASS MAT BACKING BOARD | "WET" WALLS NON-RATED WITH PLUMBING FIXTURES, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, ETC. |
| 1/2" FIBER CEMENT BACKING PANELS | WALLS EXPOSED DIRECTLY TO RUNNING WATER AND SCHEDULE TO RECIEVE TILE. BATHTUBS, SHOWERS, ETC. |

Interior Partition Naming Convention

PARTITION MATERIAL TYPE
NOMINAL STUD/PARTITION THICKNESS
FIRE RATING OR OTHER MODIFIER

G6.1



General Notes (Door Schedule):

- THRESHOLDS SHALL COMPLY WITH ACCESSIBILITY REGULATIONS.
- ALL DOOR FRAMES ARE TO BE WELDED.
- EDGE CLEARANCES IN ACCORDANCE WITH AWI QUALITY STANDARDS.
- DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
- PROVIDE BLOCKING AT ALL WALL MOUNTED DOOR STOPS.
- GLAZING STOPS IN WOOD DOORS: SAME SPECIES AS DOOR FACE, MITERED CORNERS, CONCEALED FASTENERS.
- FACTORY FINISH WOOD DOORS.
- ALL EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE LABELED "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." THIS SIGN SHALL BE IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE, MANUALLY OPERATED. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED. DOORS LOCATED IN CORNERS ARE TO HAVE THE INSIDE FACE OF JAMB LOCATED 4 INCHES FROM THE ADJACENT WALL FINISH (8 INCHES IN MASONRY WALLS) UNLESS NOTED OTHERWISE.
- PROVIDE CLOSERS AT ALL FIRE RATED AND EXTERIOR DOORS. COORDINATE WITH HARDWARE SETS.
- PROVIDE SAFETY GLAZING IN ALL DOORS AND ASSOCIATED ACTIVE/FIXED PANELS.
- PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 24 INCHES OF EITHER EDGE OF A OPERABLE DOOR.
- PROVIDE SAFETY GLAZING IN FIXED OR OPERABLE PANELS WHERE WITHIN 18 INCHES FROM AND RAMP/STAIR LANDING OR HAND/GUARDRAIL.
- ANY DOOR CARRYING A U.L. RATING SHALL BE INSTALLED IN A U.L. RATED FRAME CARRYING THE SAME DESIGNATION.
- PROVIDE FIRE RATED GLAZING IN PANELS LOCATED WITHIN A RATED WALL.
- CONTRACTOR TO COORDINATE SILL HEIGHTS WITH ELEVATIONS AND WALL SECTIONS.
- PAINT METAL DOORS AND FRAMES TO MATCH ADJACENT WALLS UNLESS OTHERWISE NOTED. REFER TO FINISH LEGEND FOR ADDITIONAL INFORMATION.
- REFER TO "PROJECT MANUAL" FOR HARDWARE SETS AND ADDITIONAL DOOR REQUIREMENTS.

DOOR LEGEND:

AL ALUMINUM
CA CARD ACCESS DEVICE
CL CLOSER
FRP FIBERGLASS
GL GLASS
HC HOLLOW CORE
HM HOLLOW METAL
L LOUVER
PF PRE-FINISHED/FACTORY FINISHED
PH PANIC HARDWARE
PR PAIR
PTD PAINTED
SD SMOKE & DRAFT CONTROL
SS STAINLESS STEEL
STL STEEL
T TEMPERED GLASS
V VISION
WD WOOD

HARDWARE/OPERATION:

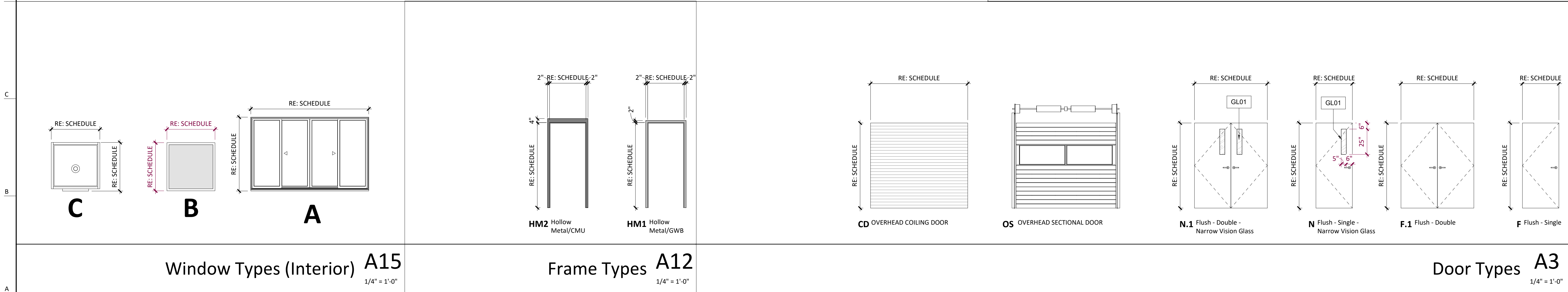
- CARD READER TYPE 01
- DOOR MONITOR
- ELECTRIC LOCK & MONITOR - EACH LEAF IF PAIR
- VIDEO MONITOR - DOOR STATION WALL MOUNT
- ADA PUSH BUTTON ON PEDESTAL
- ADA PUSH BUTTON ON MULLION
- ADA PUSH BUTTON ON WALL
- ACOUSTICAL DOOR AND FRAME
- AUTOMATIC DOOR OPENER BOTH SIDES

MATERIALS/FINISHES:

A. PAINT FRAME TO MATCH ADJACENT WALL
B. PAINT DOOR AND FRAME TO MATCH ADJACENT WALL

| Window Schedule | | | | | | | | | | | | | |
|-----------------|--------------|-------------|-------------|----------|--|--|--|--|--|--|--|--|--|
| Mark | Size | | Sill Height | Comments | | | | | | | | | |
| | Width | Height | | | | | | | | | | | |
| A | 9' - 8 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| A | 3' - 11 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| A | 9' - 8 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| A | 9' - 8 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| A | 9' - 8 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| A | 9' - 8 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| B | 3' - 11 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| B | 3' - 11 1/2" | 5' - 5 1/2" | 2' - 10" | | | | | | | | | | |
| C | 4' - 0" | 4' - 0" | 2' - 6" | | | | | | | | | | |
| C | 2' - 13/4" | 3' - 6" | 2' - 8" | | | | | | | | | | |
| C | 2' - 13/4" | 3' - 6" | 2' - 8" | | | | | | | | | | |

| Door Schedule | | | | | | | | | | | | | | |
|---------------------------|--------|--------|----------|-------------|--------------|-------------|----------|---------|-----------|----------|--------|-----------------|----------|--|
| lege | Room | | Assembly | | | | Door | | | | Frame | | Comments | |
| | From: | To: | Type | Fire Rating | Hardware Set | Detail Type | Width | Height | Thickness | Material | Finish | Frame Type | | Finish |
| Home Press Box Level 1 | | | | | | | | | | | | | | |
| 1-101 | | H1-101 | F | 90 Min. | 07 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 1-102 | H1-1 | | F | 90 Min. | 10 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| Restrooms | | | | | | | | | | | | | | |
| 2-101 | H2-101 | | F | NR | 03 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 2-103 | | H2-103 | F | NR | 11 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 2-104 | | H2-104 | F | NR | 11 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| Visitor Press Box Level 1 | | | | | | | | | | | | | | |
| 2-106 | | H2-106 | F | NR | 04 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | BY MANUFACTURER | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| Concessions | | | | | | | | | | | | | | |
| 2-105 | | H2-105 | F | NR | 04 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 2-106a | H2-106 | | CD | NR | 18 | C | 15' - 0" | 5' - 2" | | HM | PT | HM2 | PT | OVERHEAD COILING DOOR - FRAME FINISH PT TO MATCH ADJACENT WALL |
| 2-107 | H2-106 | H2-107 | N | NR | 14 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 2-108 | H2-106 | H2-108 | N | NR | 14 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 2-109 | H2-109 | | CD | NR | 18 | C | 15' - 0" | 7' - 0" | 2" | | PT | HM2 | PT | OVERHEAD COILING DOOR - FRAME FINISH PT TO MATCH ADJACENT WALL |
| Ticket Booth | | | | | | | | | | | | | | |
| 3-101 | | H3-101 | F | NR | 02 | B | 2' - 8" | 7' - 0" | 1 3/4" | | PT | BY MANUFACTURER | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| Home Press Box Level 2 | | | | | | | | | | | | | | |
| 1-201 | H1-106 | H1-101 | F | 90 Min. | 06 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 1-202 | H1-106 | H1-1 | F | 90 Min. | 09 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 1-203 | H1-203 | H1-106 | F | NR | 08 | A | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM1 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 1-204 | H1-106 | H1-204 | F | NR | 08 | A | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM1 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 1-205 | H1-106 | H1-205 | F | NR | 08 | A | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM1 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| Home Press Box Level 3 | | | | | | | | | | | | | | |
| 1-301 | H1-303 | | F | 90 Min. | 06 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |
| 1-302 | H1-303 | H1-1 | F | 90 Min. | 09 | B | 3' - 0" | 7' - 0" | 1 3/4" | HM | PT | HM2 | PT | FRAME FINISH PT TO MATCH ADJACENT WALL |



| Window Types (Interior) A15 | | | | | | | | | | | | | |
|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1/4" = 1'-0" | | | | | | | | | | | | | |

| Frame Types A12 | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1/4" = 1'-0" | | | | | | | | | | | | | |

| Glazing Schedule - Basic | |
|--------------------------|-----------------------|
| Mark | Description |
| GL01 | 1/4" CLEAR (Tempered) |
| IGU01 | 1" INSULATED GLASS |

| REVISIONS | | |
|-----------|-------------|------|
| Number | DESCRIPTION | DATE |

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**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64063

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JAY BROWNING
ARCHITECT
000907279
9.28.20

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Missouri License No. 2018022991
Jay Browning
Date: 09/28/2020
Architect License No. A-2009027279

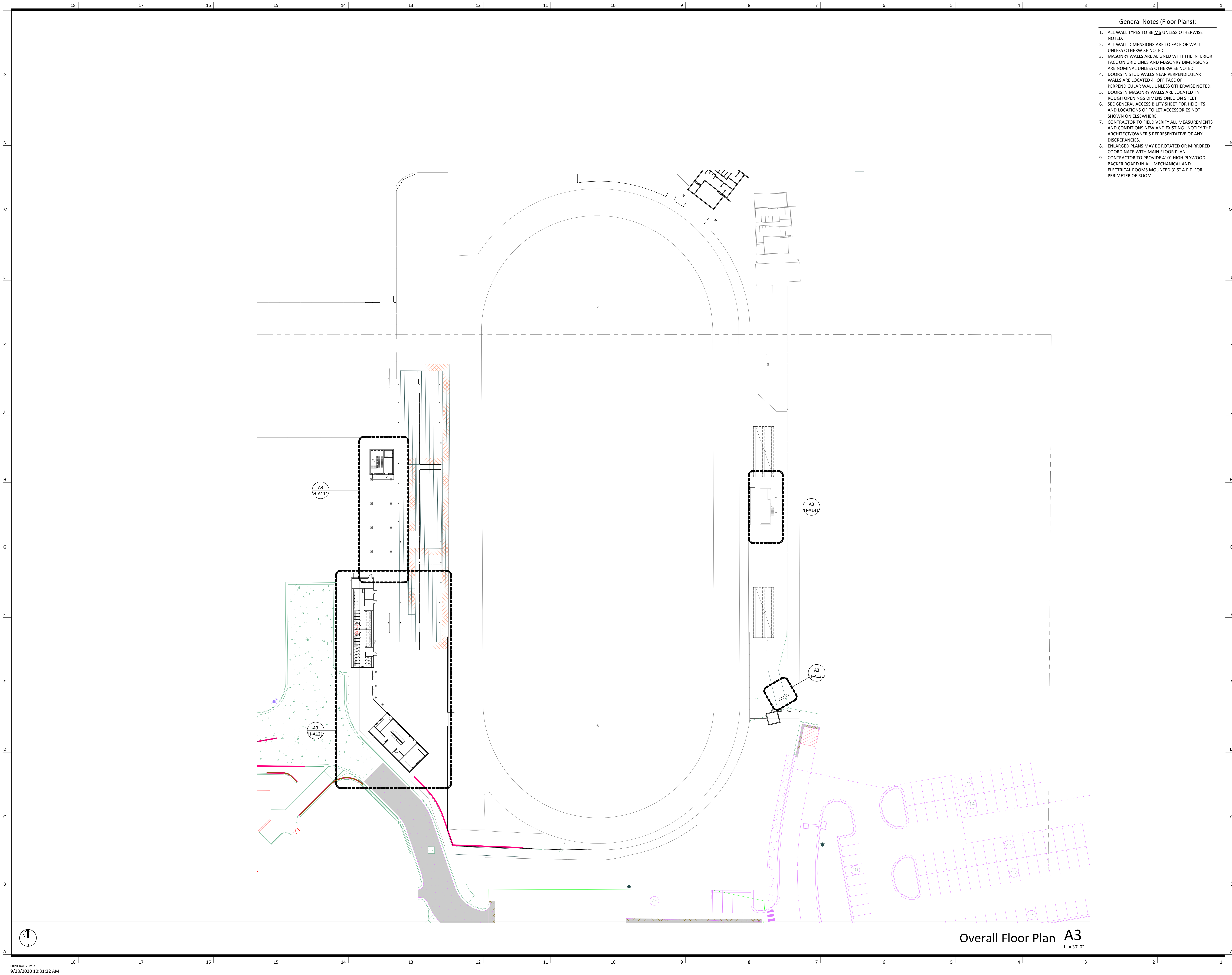
| REVISIONS | | |
|-----------|-------------|------|
| Number | DESCRIPTION | DATE |

PROJECT NO: 0119-0101
DATE: September 28, 2020

**Door & Window Types
& Details**

H-A080

BID SET



General Notes (Floor Plans):

1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORRED COORDINATE WITH MAIN FLOOR PLAN.
9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

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Lee's Summit R7 District
Athletics Facilities

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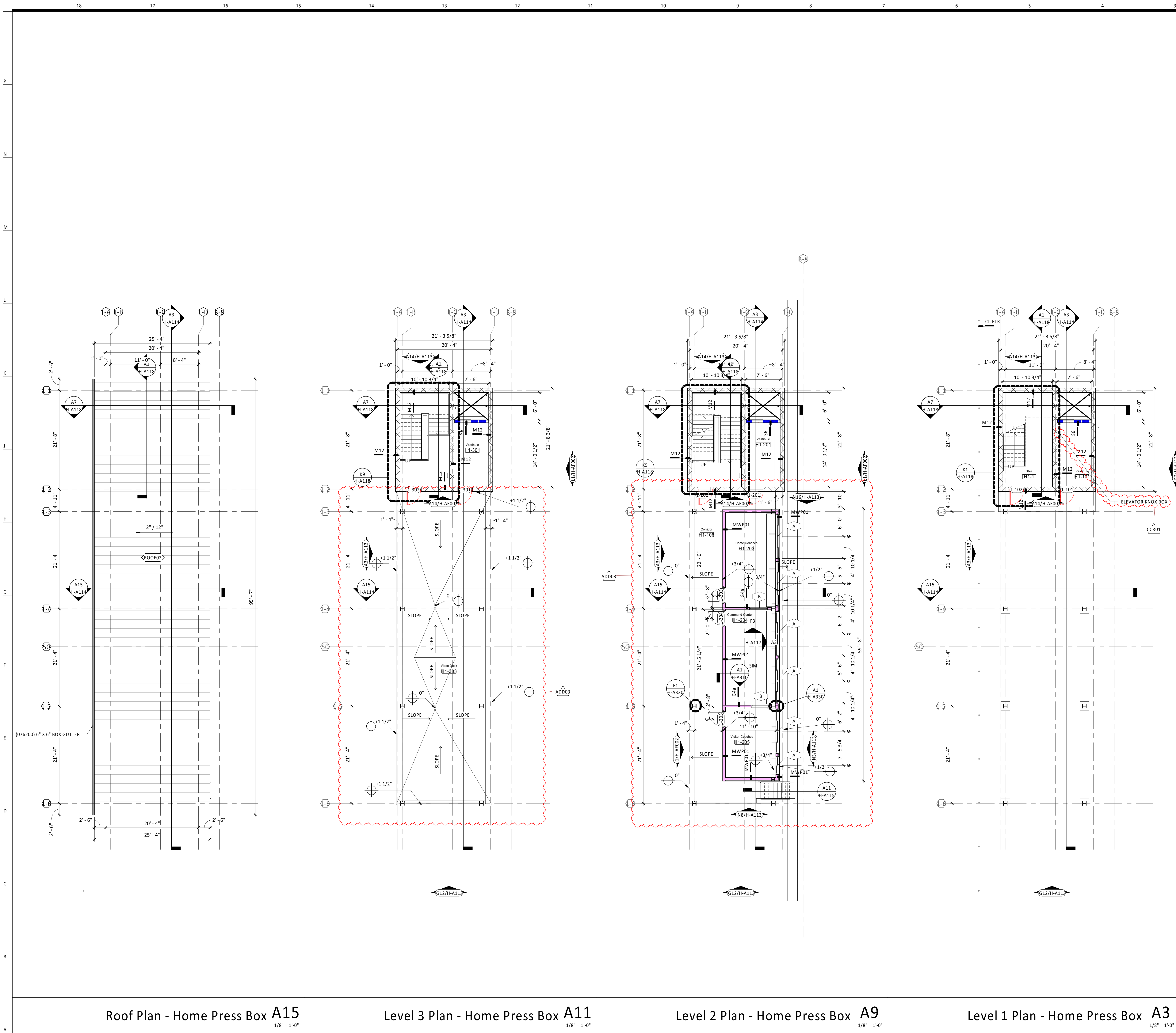


Architectural Corporation
Missouri License No. 2018022991 Date: 09/28/2020
Jay Browning, Architect License No. A-2009027279

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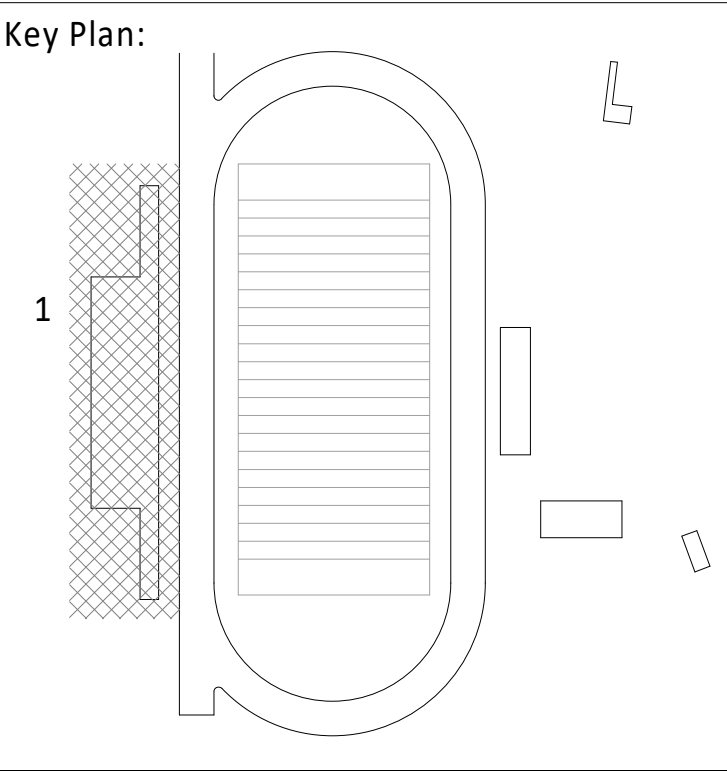
PROJECT NO: 0119-0101
DATE: September 28, 2020

Overall Floor Plan
H-A101
BID SET



- General Notes (Floor Plans):
- ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
 - ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 - MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
 - DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 - DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
 - SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 - CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 - ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 - CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

- General Notes: (Roof Plan)
- REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
 - MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
 - ELEVATION ABBREVIATIONS AS FOLLOWS: **BOD** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET.
 - OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH.
 - PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
 - PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
 - PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.



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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
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civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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JAY BROWNING
ARCHITECT
11.3.20

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Jay Browning
Date: 11/03/2020
License No. A-2009027279

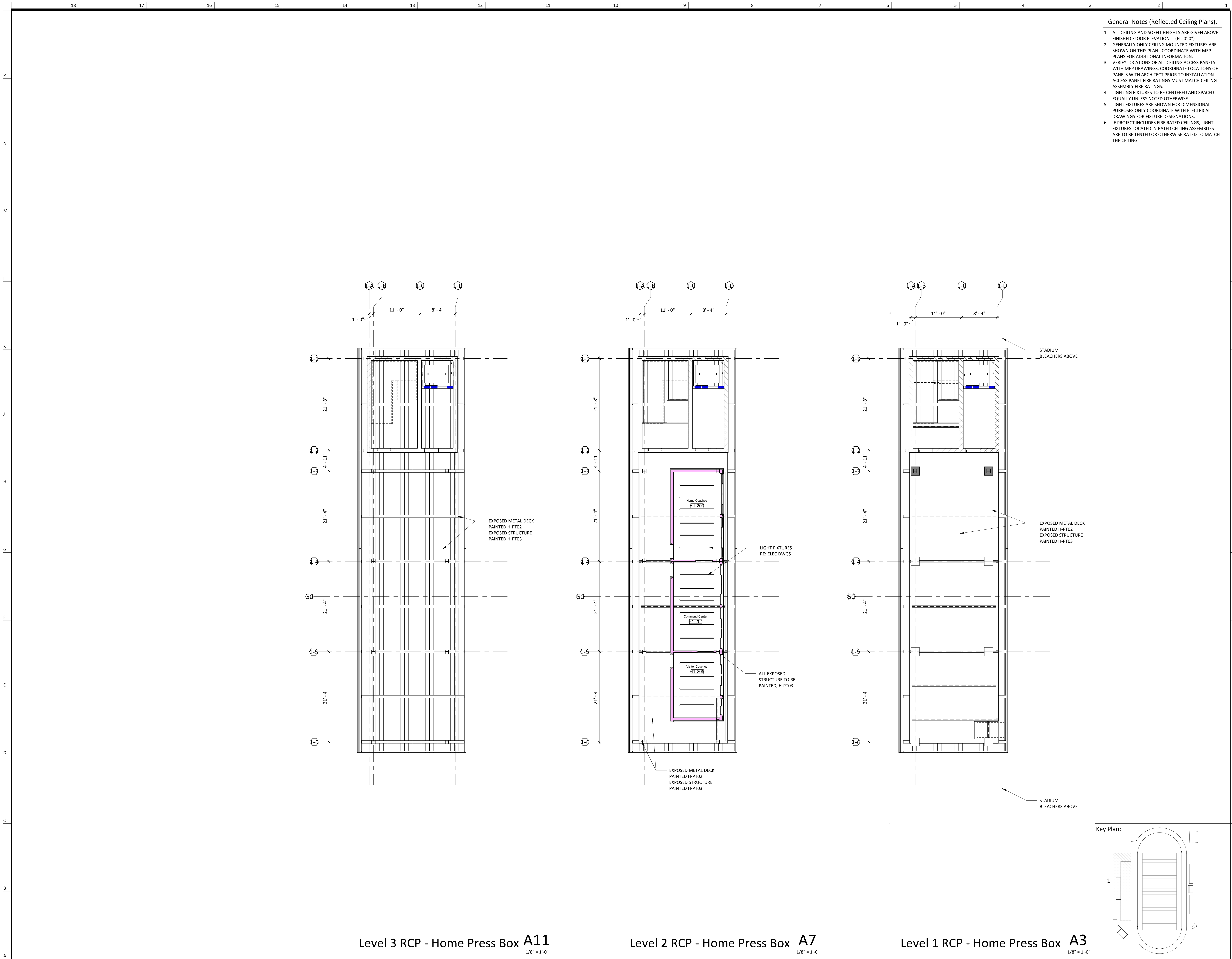
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| ADD03 | Addendum 03 | 10/28/20 |
| CCR01 | Code Comment Response 1 | 10/28/20 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

**Home Press Box -
Floor/Roof Plans**

H-A111

BID SET



Lee's Summit R7 District
Athletics Facilities

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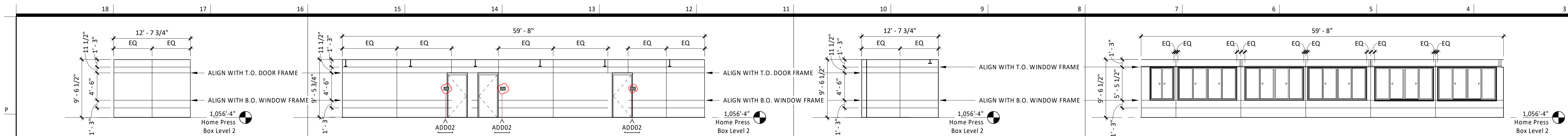
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Press Box -
Reflected Ceiling Plans

H-A112

BID SET



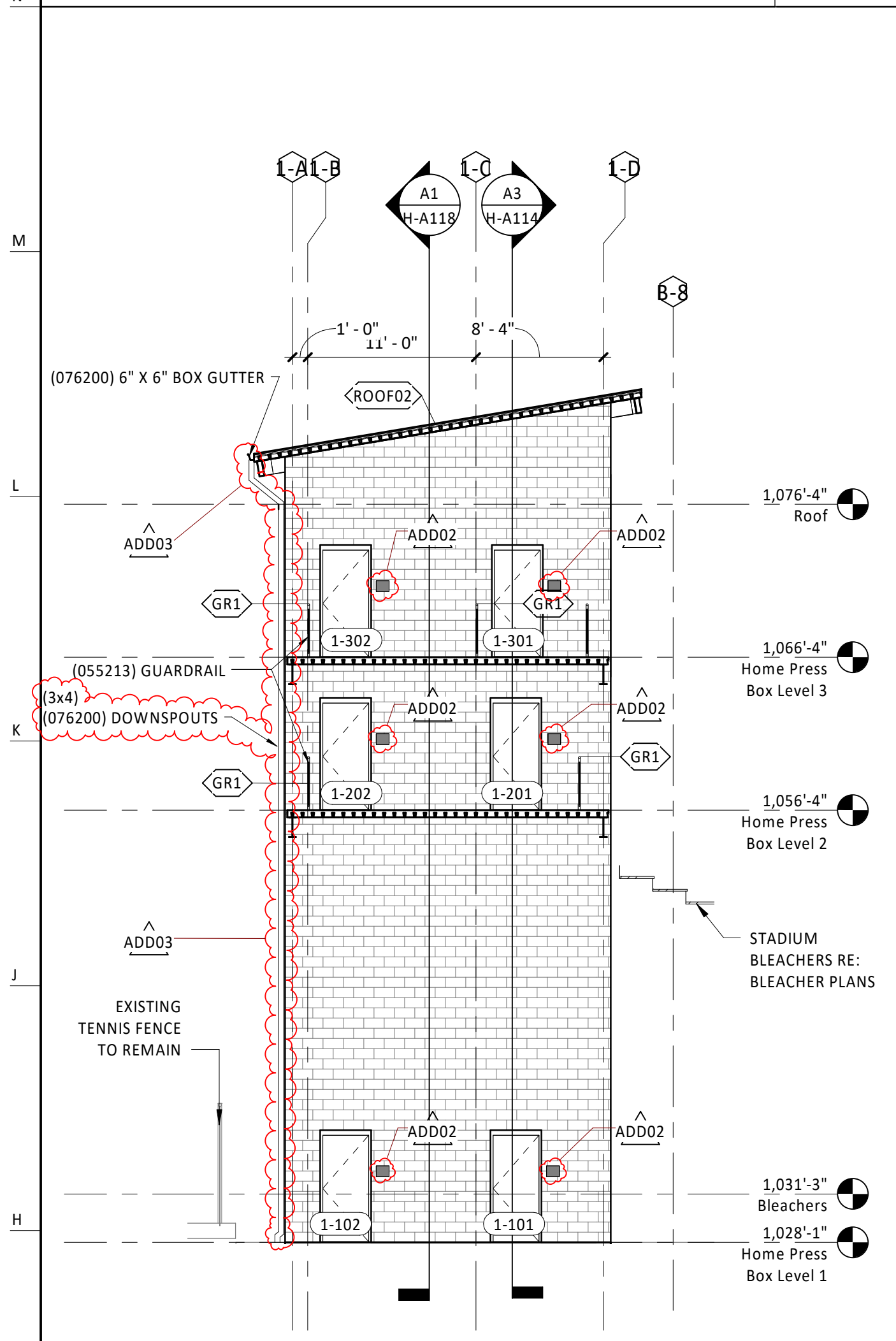
North Elevation Press Box - N16
Wall Panel Joint Detail 1/8" = 1'-0"

West Elevation Press Box - Wall Panel Joint Detail N11
1/8" = 1'-0"

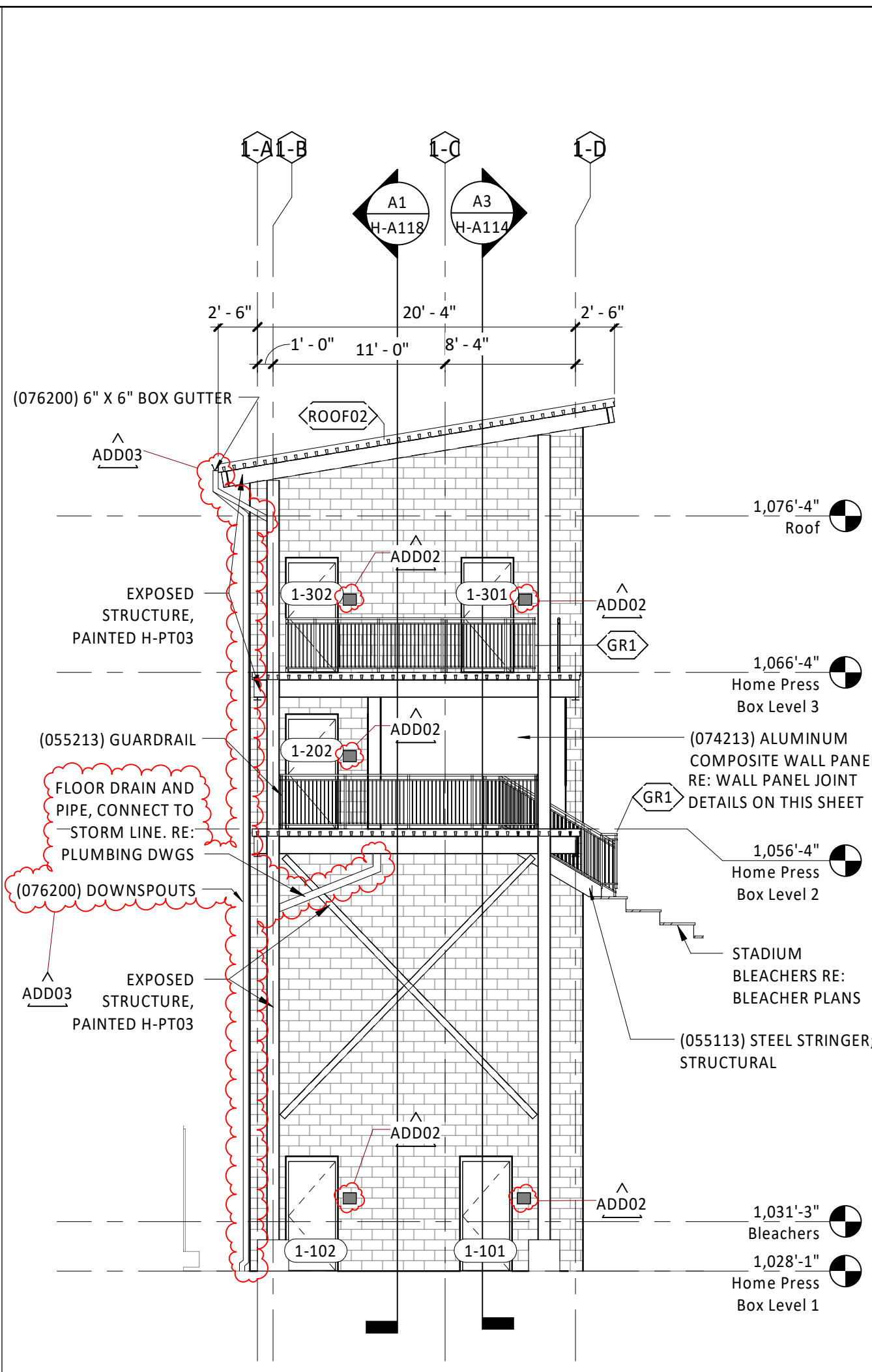
South Elevation Press Box - N8
Wall Panel Joint Detail 1/8" = 1'-0"

East Elevation Press Box - Wall Panel Joint Detail N3
1/8" = 1'-0"

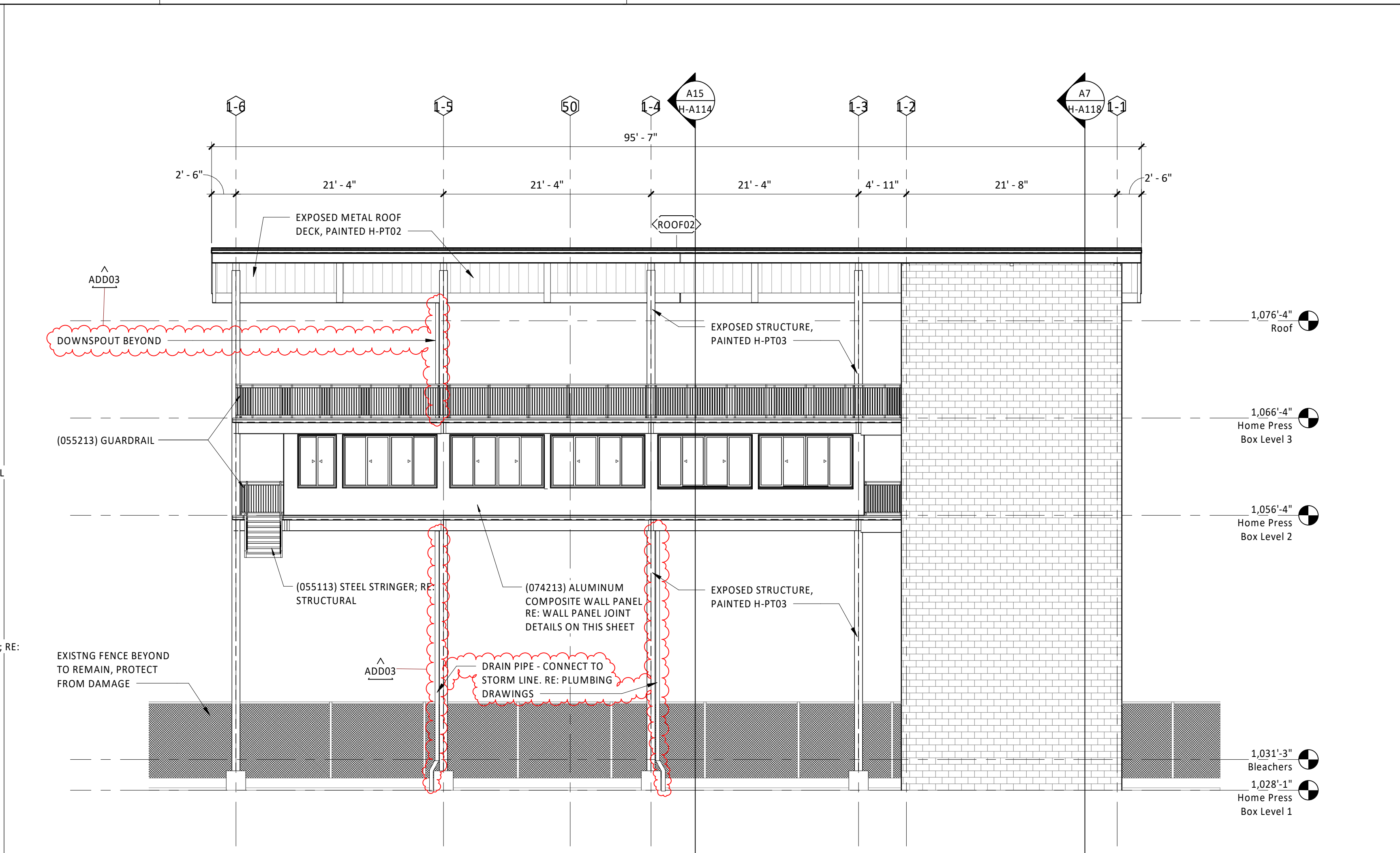
- General Notes (Exterior Elevations):
- MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS
 - COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.



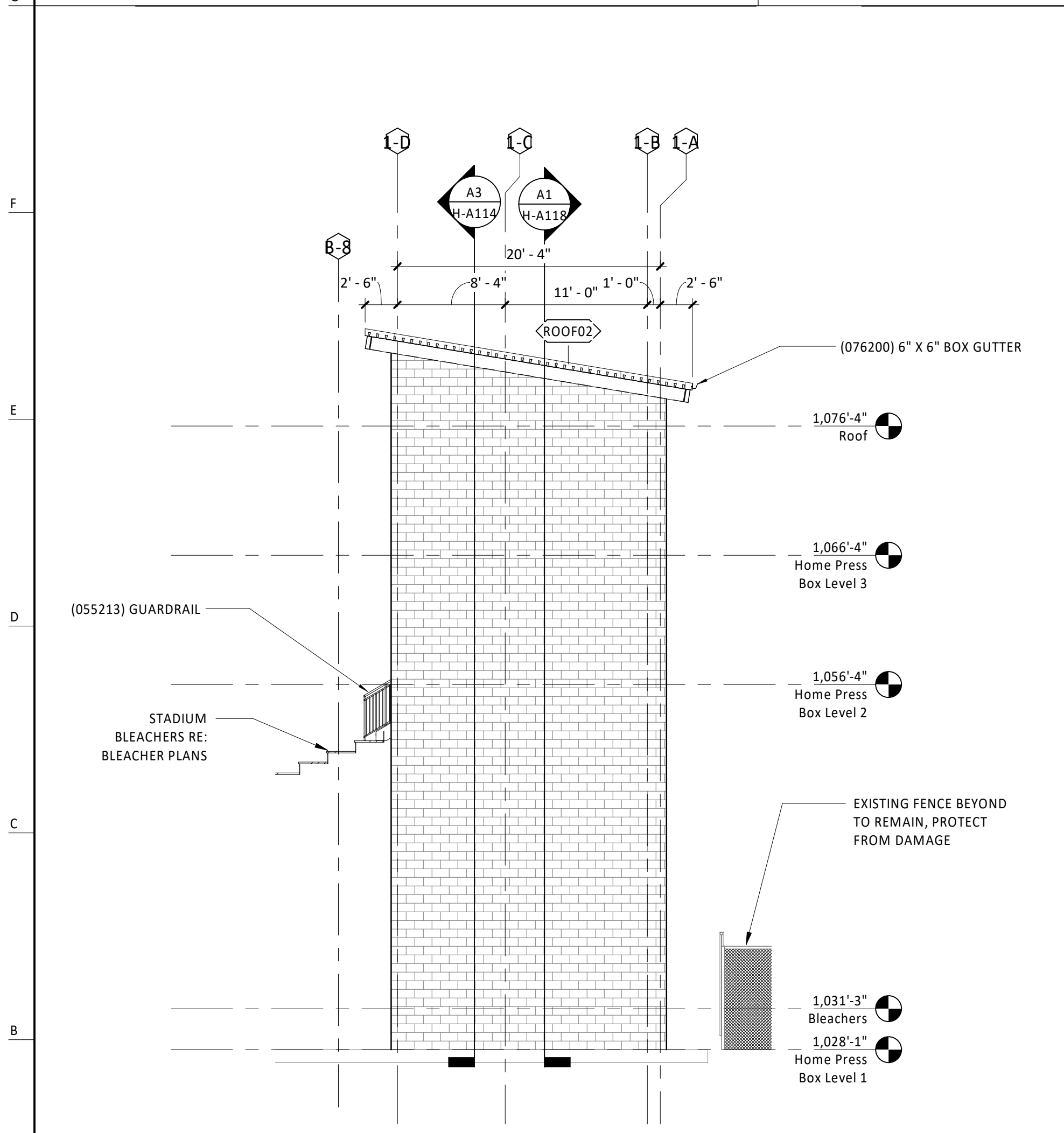
South Elevation - Home Press Box Core G15
1/8" = 1'-0"



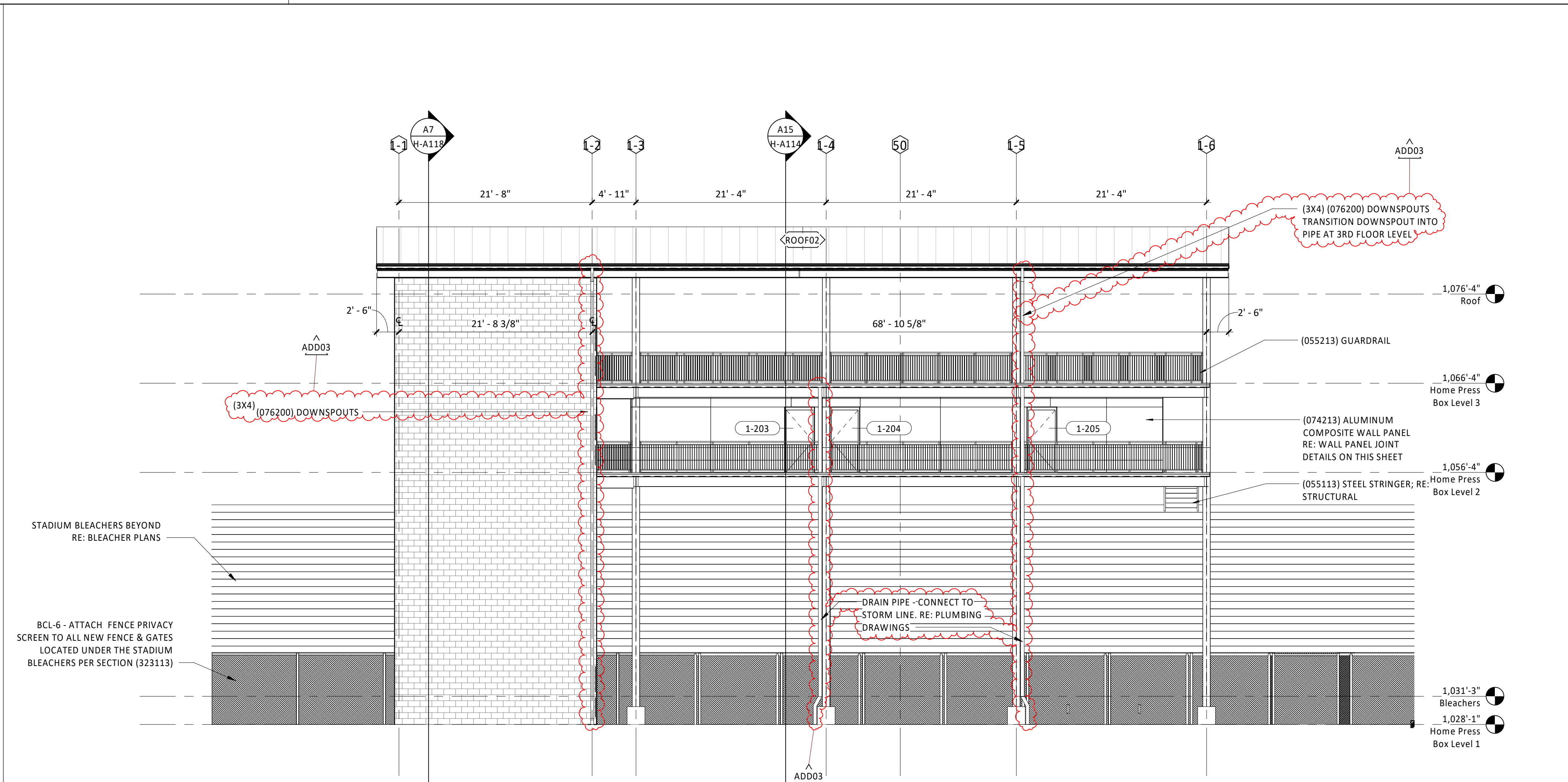
South Elevation - Home Press Box G12
1/8" = 1'-0"



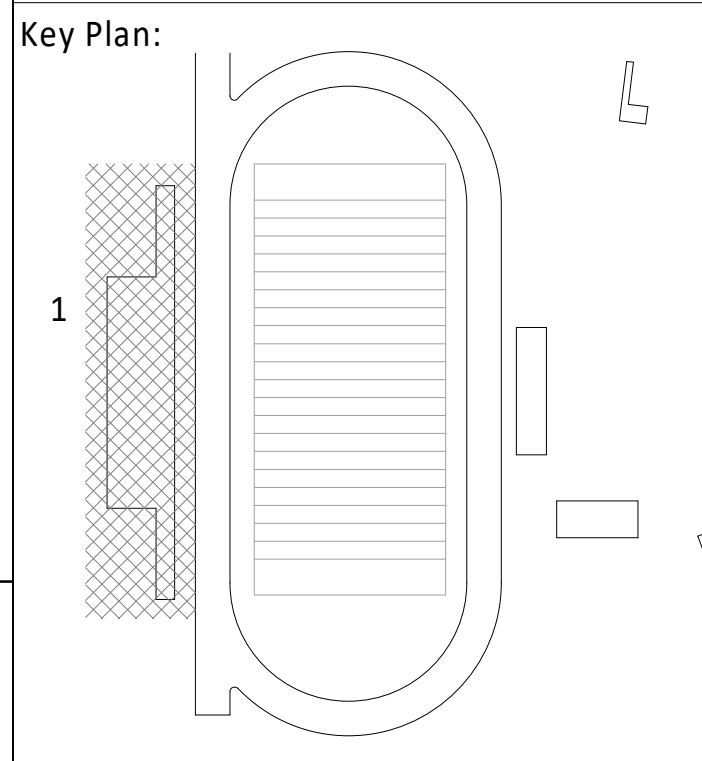
East Elevation - Home Press Box G3
1/8" = 1'-0"



North Elevation - Home Press Box A14
1/8" = 1'-0"



West Elevation - Home Press Box A3
1/8" = 1'-0"



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Lee's Summit, MO 64086

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ARCHITECT
11.3.20

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Jay Browning
Architect License No. A-2009027279

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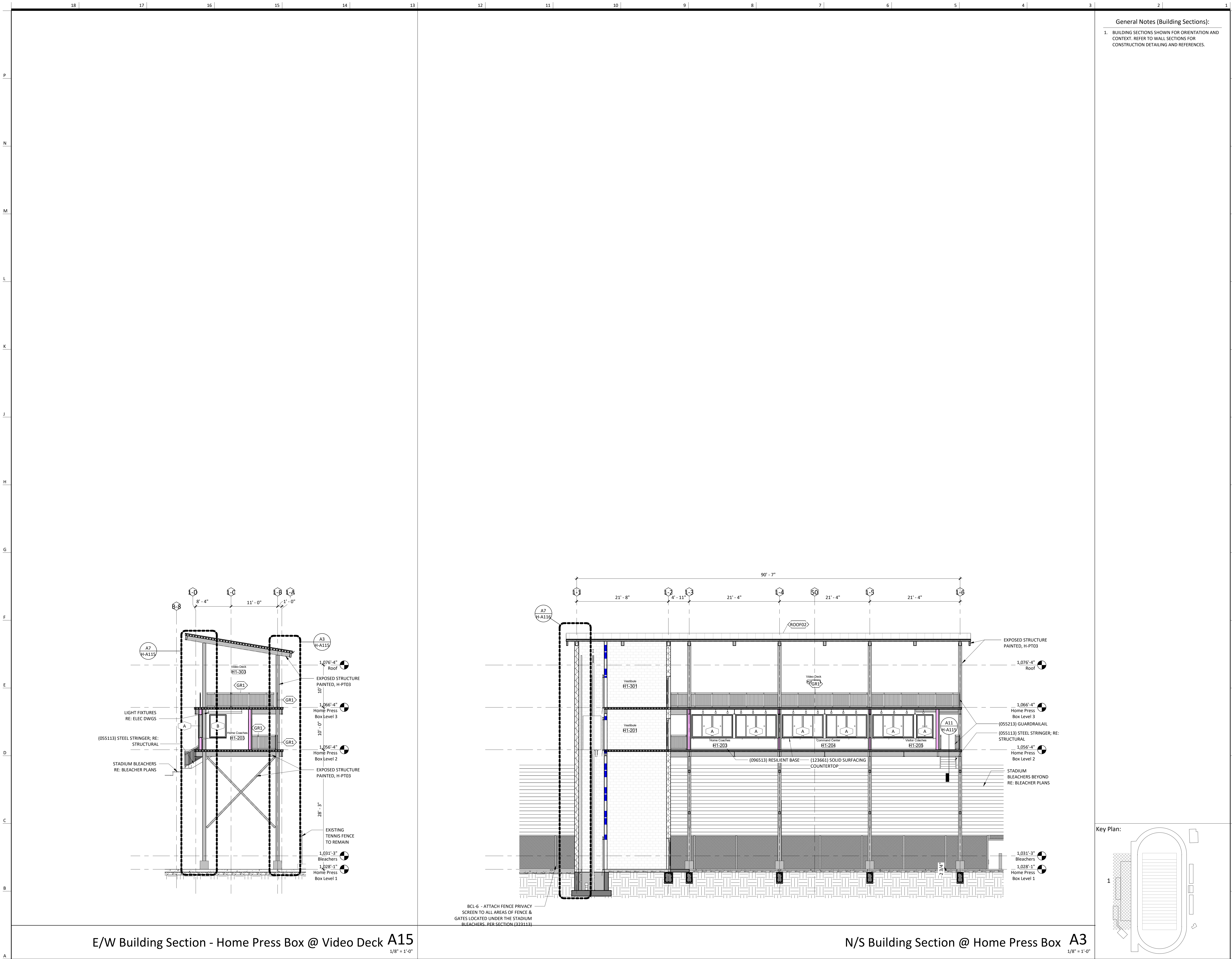
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| ADD02 | Addendum 02 | 10/28/20 |
| ADD03 | Addendum 03 | 10/28/20 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

**Home Press Box -
Exterior Elevations**

H-A113

BID SET



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

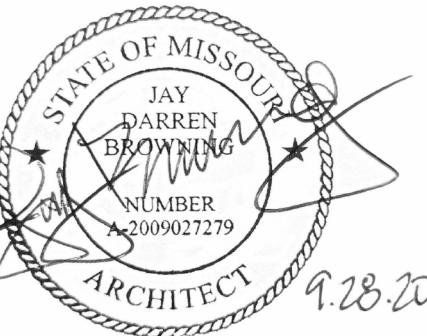
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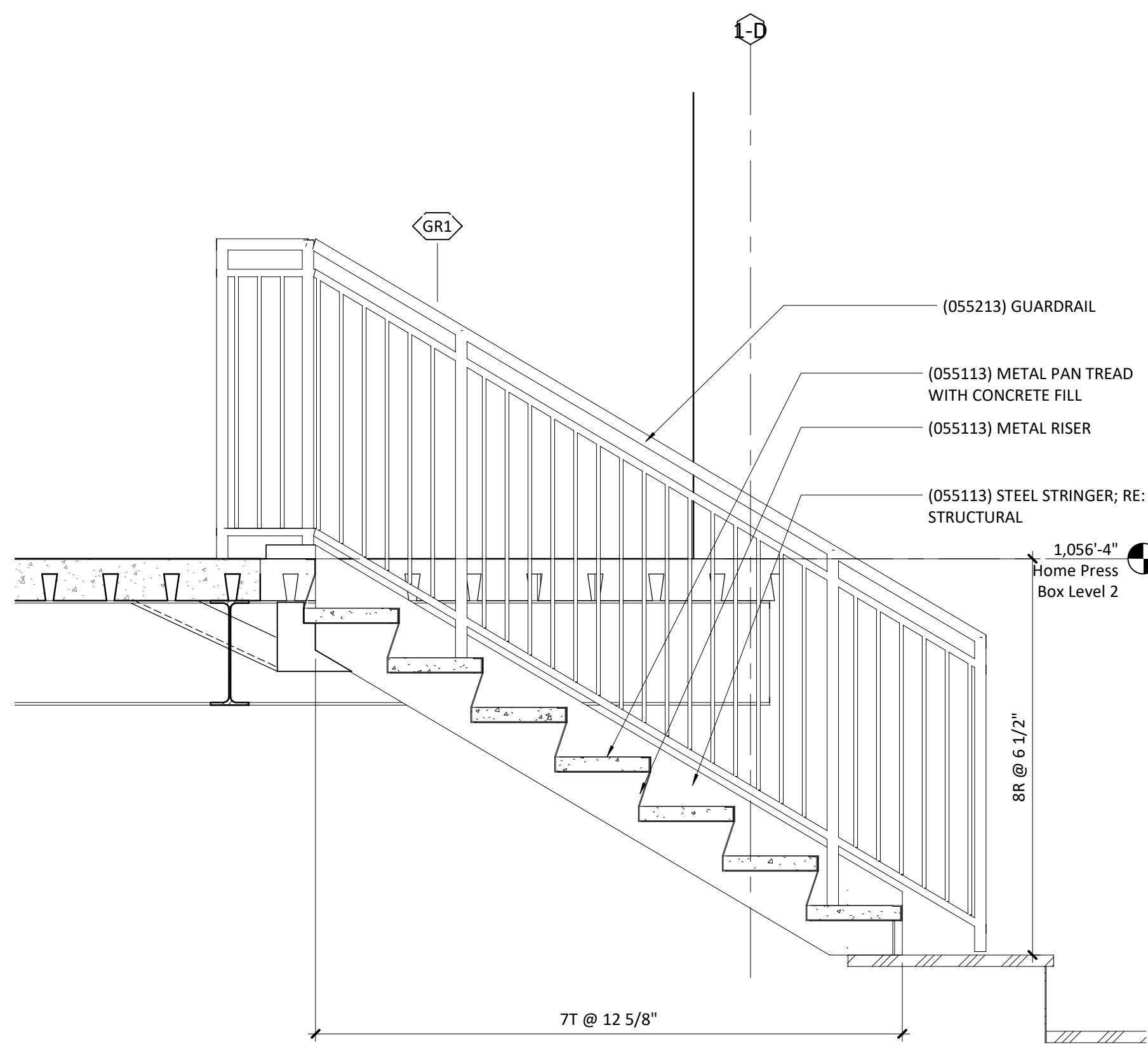
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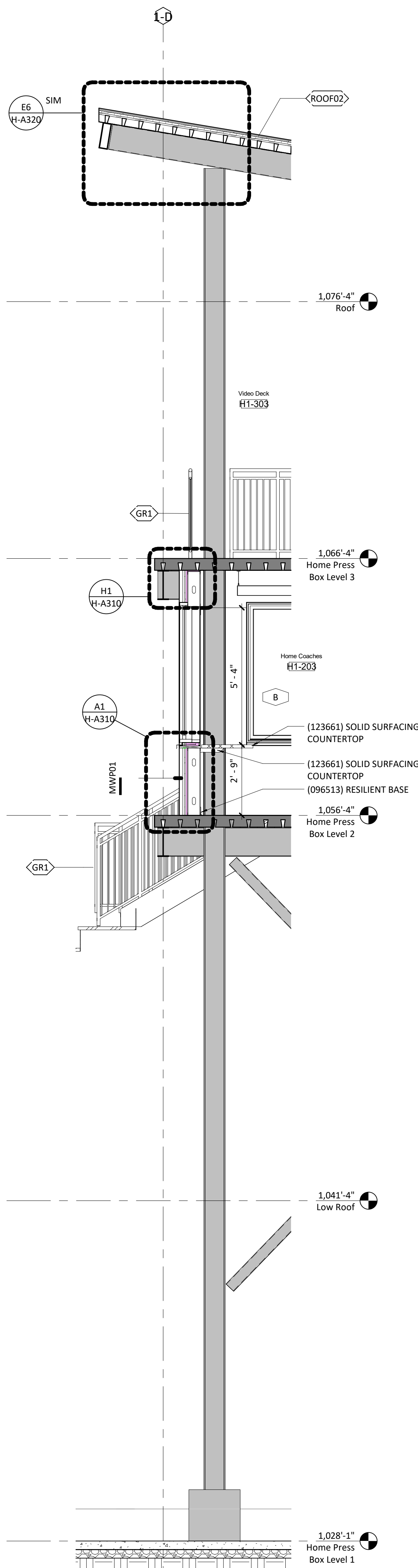
Home Press Box - Wall
Sections

H-A115

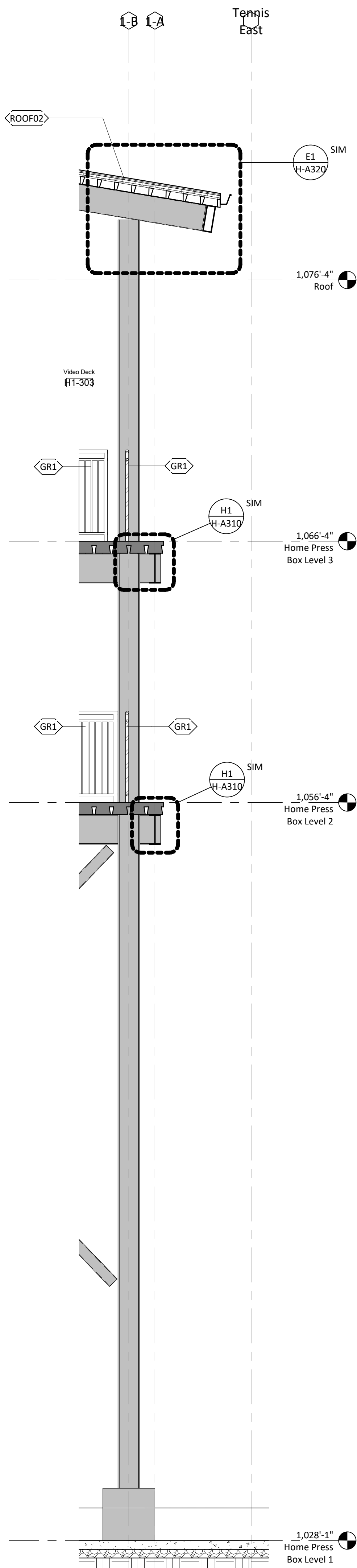
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Detail Section - Bleacher Stair **A11**
3/4" = 1'-0"

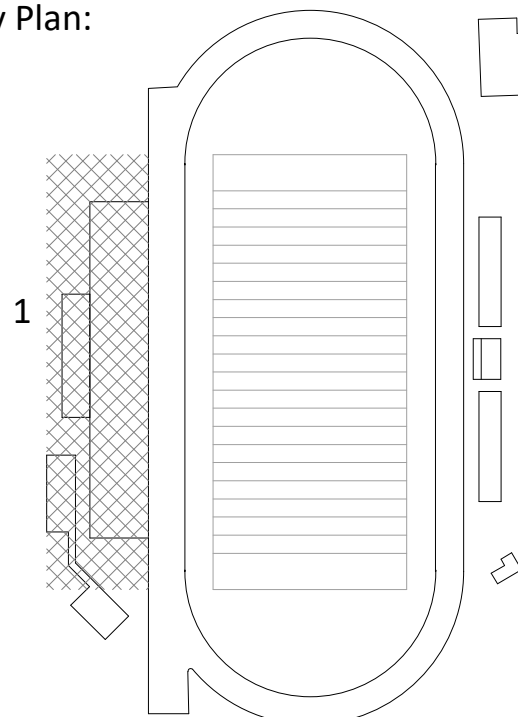


Wall Section - East Side @ Press Box **A7**
3/8" = 1'-0"



Wall Section - West Side @ Press Box **A3**
3/8" = 1'-0"

Key Plan:



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

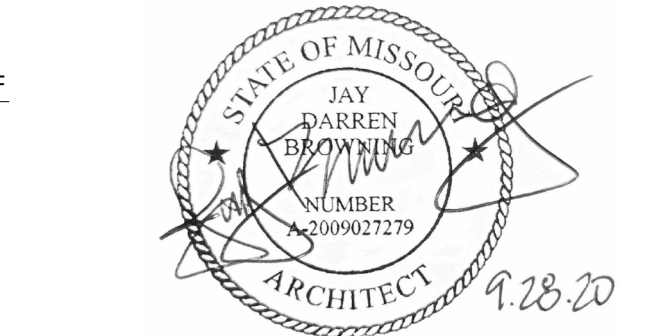
architect:
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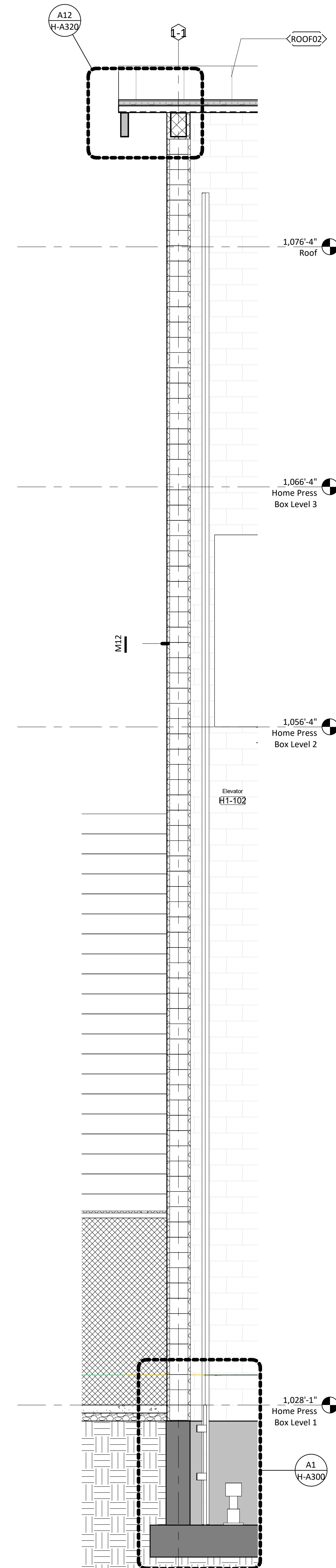
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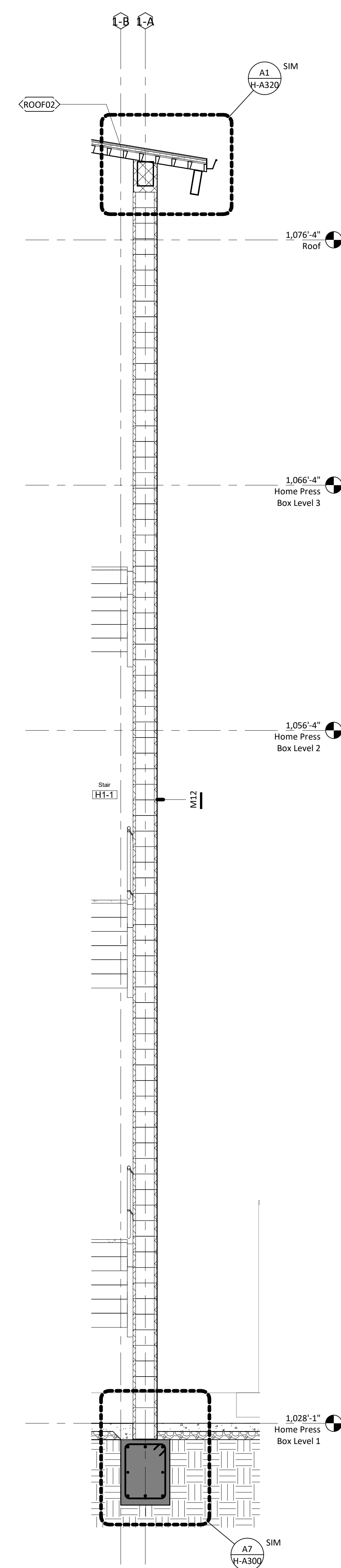
Home Press Box - Wall Sections

H-A116

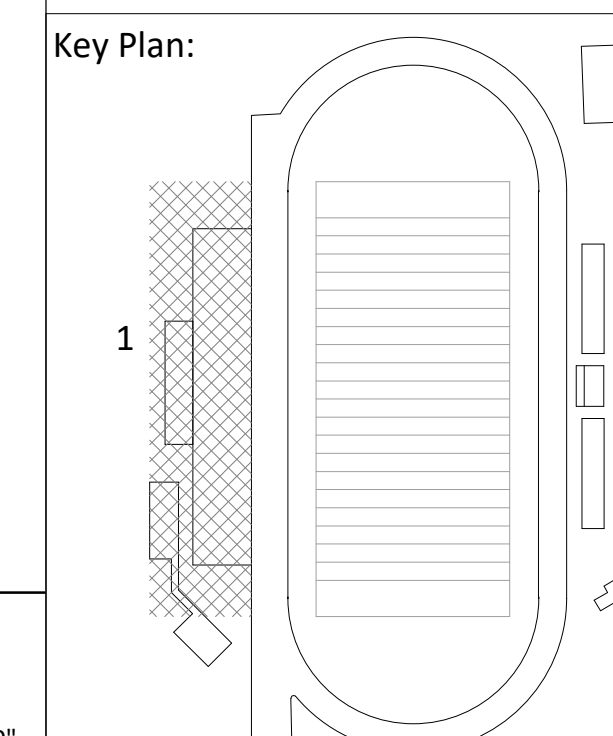
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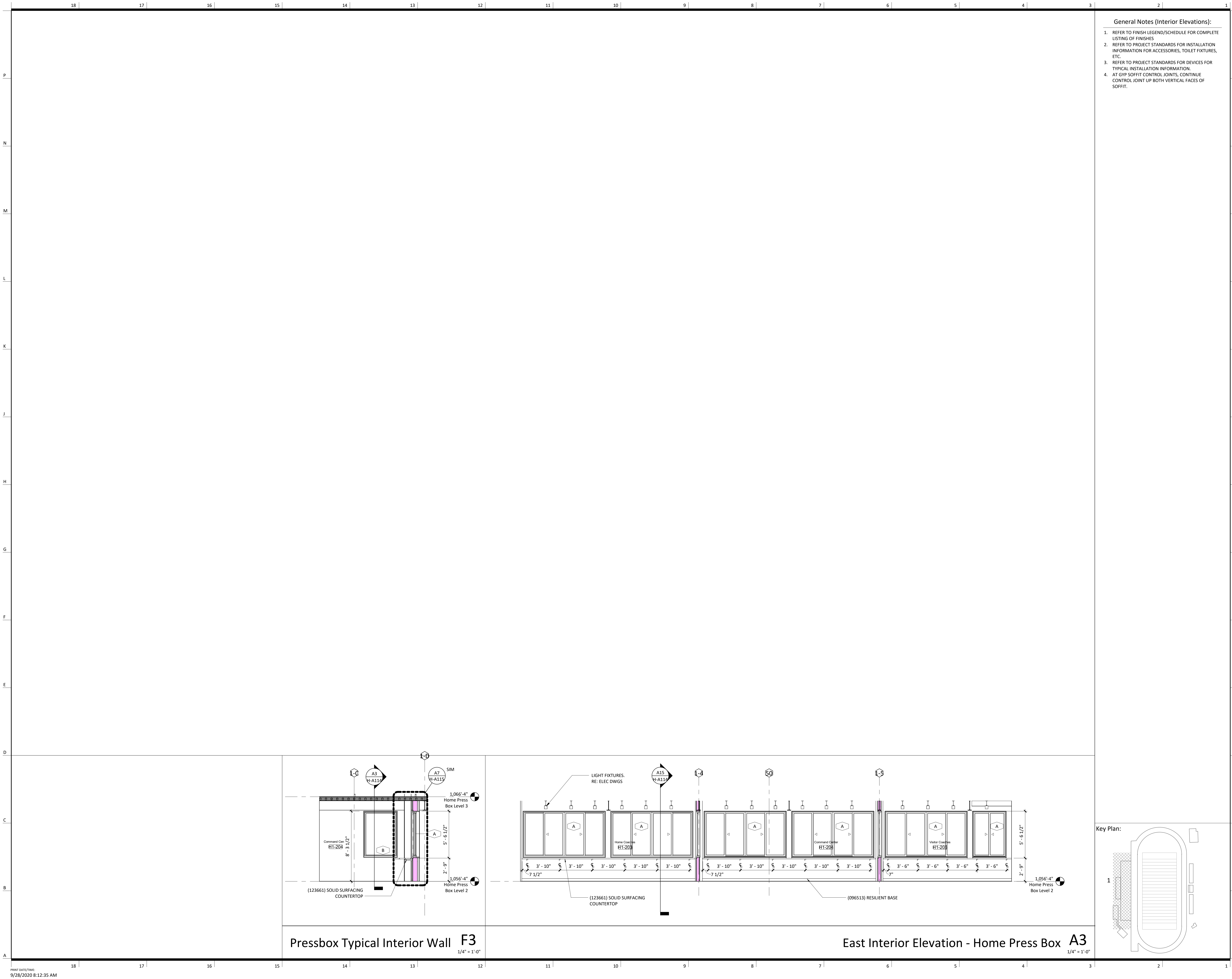


Wall Section @ Elevator Core **A7**
3/8" = 1'-0"



Wall Section - West Side @ Stair Core **A3**
3/8" = 1'-0"





Lee's Summit R7 District
Athletics Facilities

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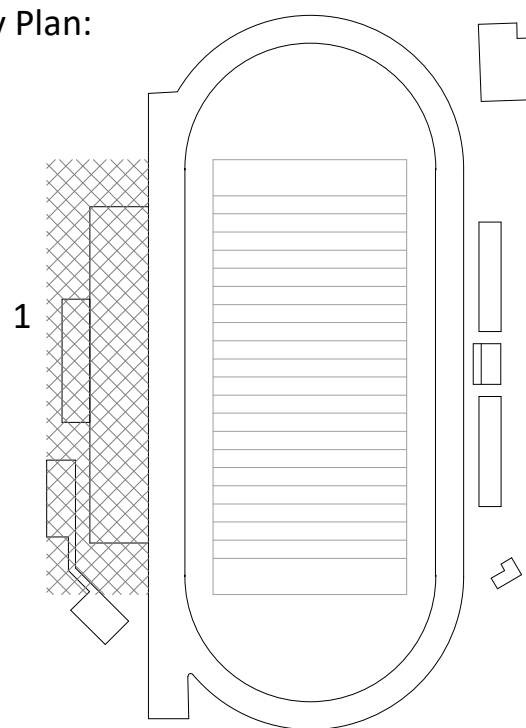
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DATE: September 28, 2020

Home Press Box -
Interior Elevations

H-A117

BID SET

Key Plan:



Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

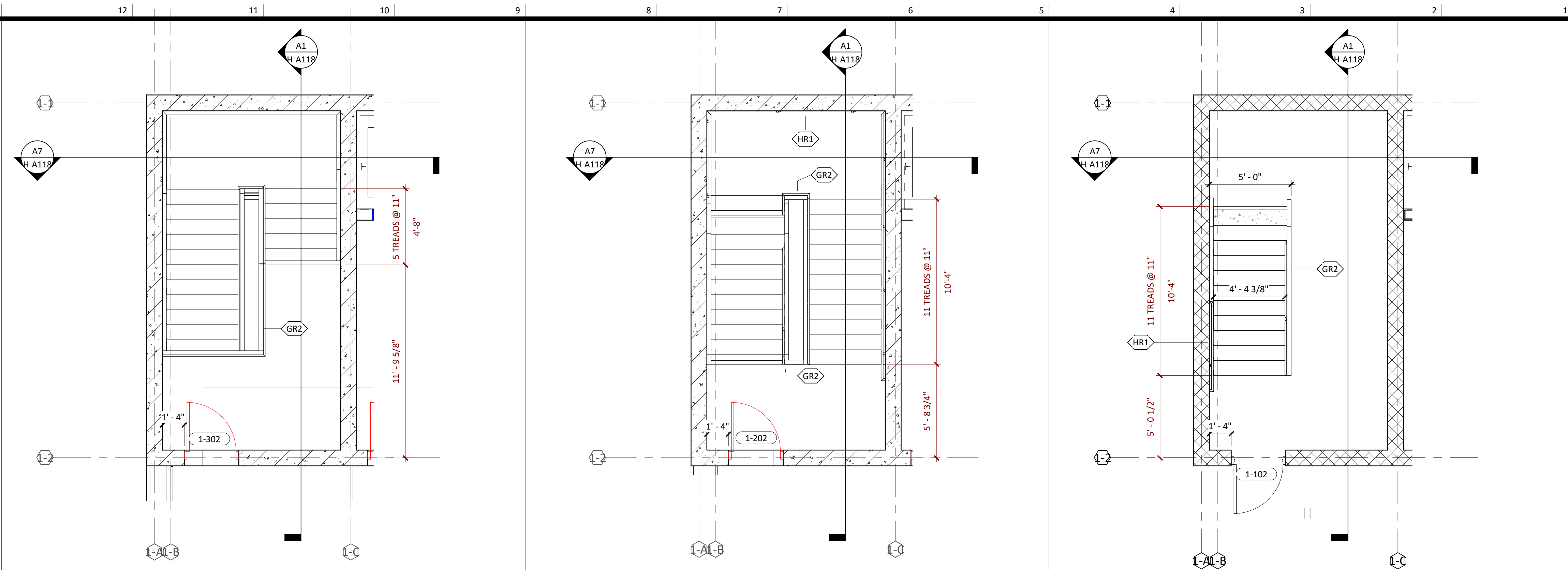
owner:
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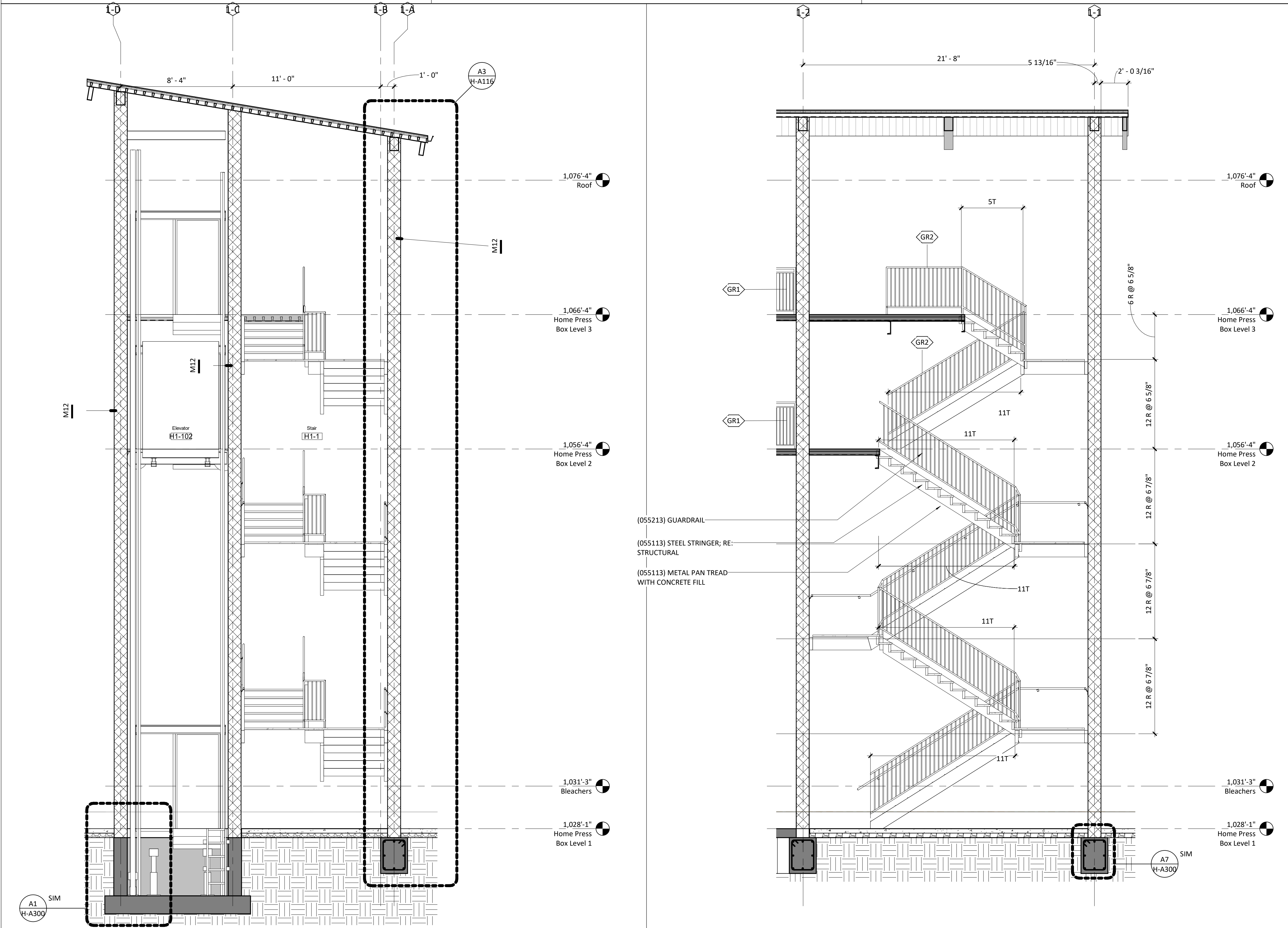
mechanical/electrical engineer:
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Level 3 Plan - Press Box - Stair K9
1/4" = 1'-0"

Level 2 Plan - Press Box - Stair K5
1/4" = 1'-0"

Level 1 Plan - Press Box - Stair K1
1/4" = 1'-0"



E/W Building Section @ Stair & Elevator Core A7
1/4" = 1'-0"

N/S Building Section @ Stair Core A1
1/4" = 1'-0"

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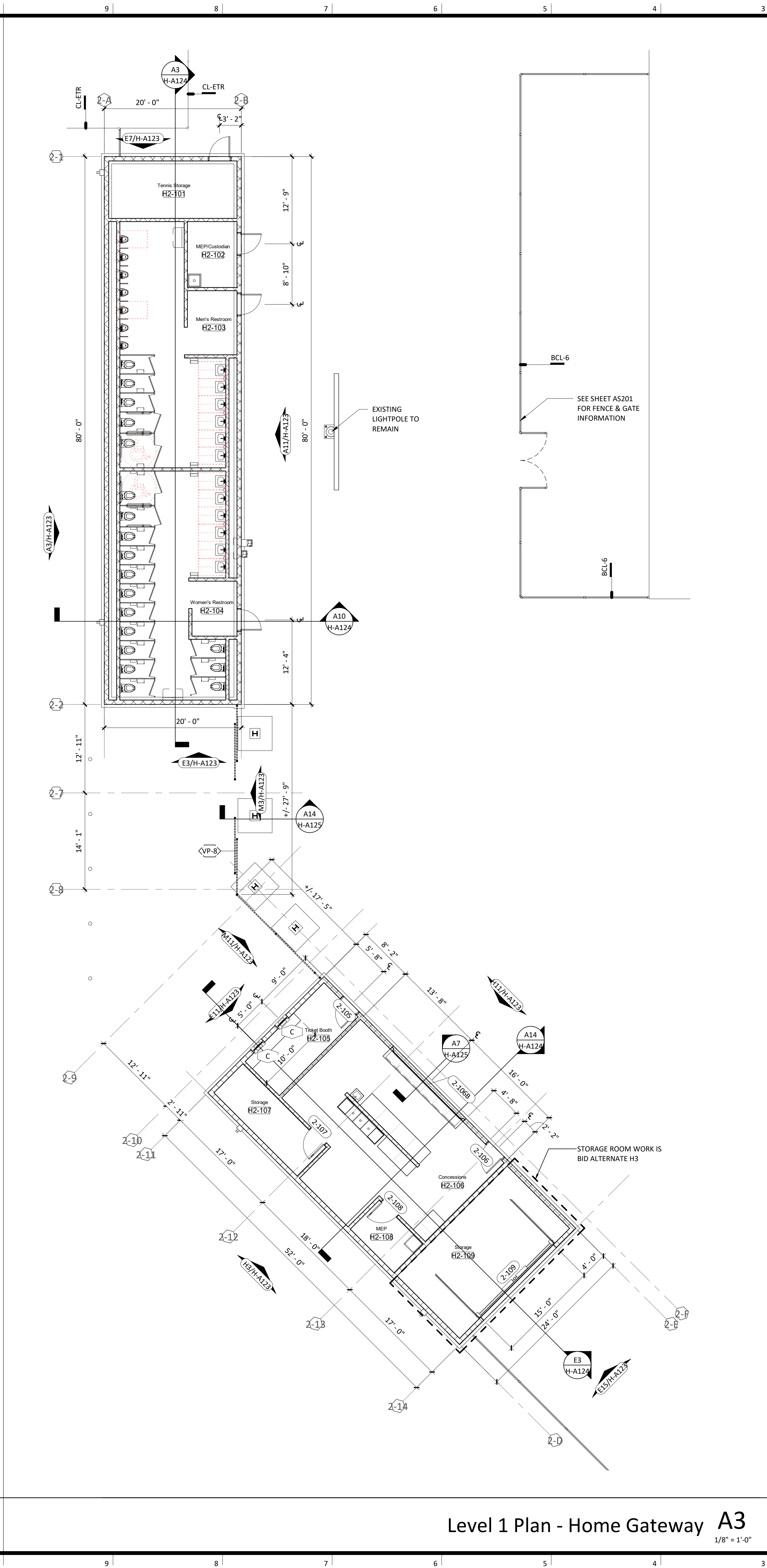
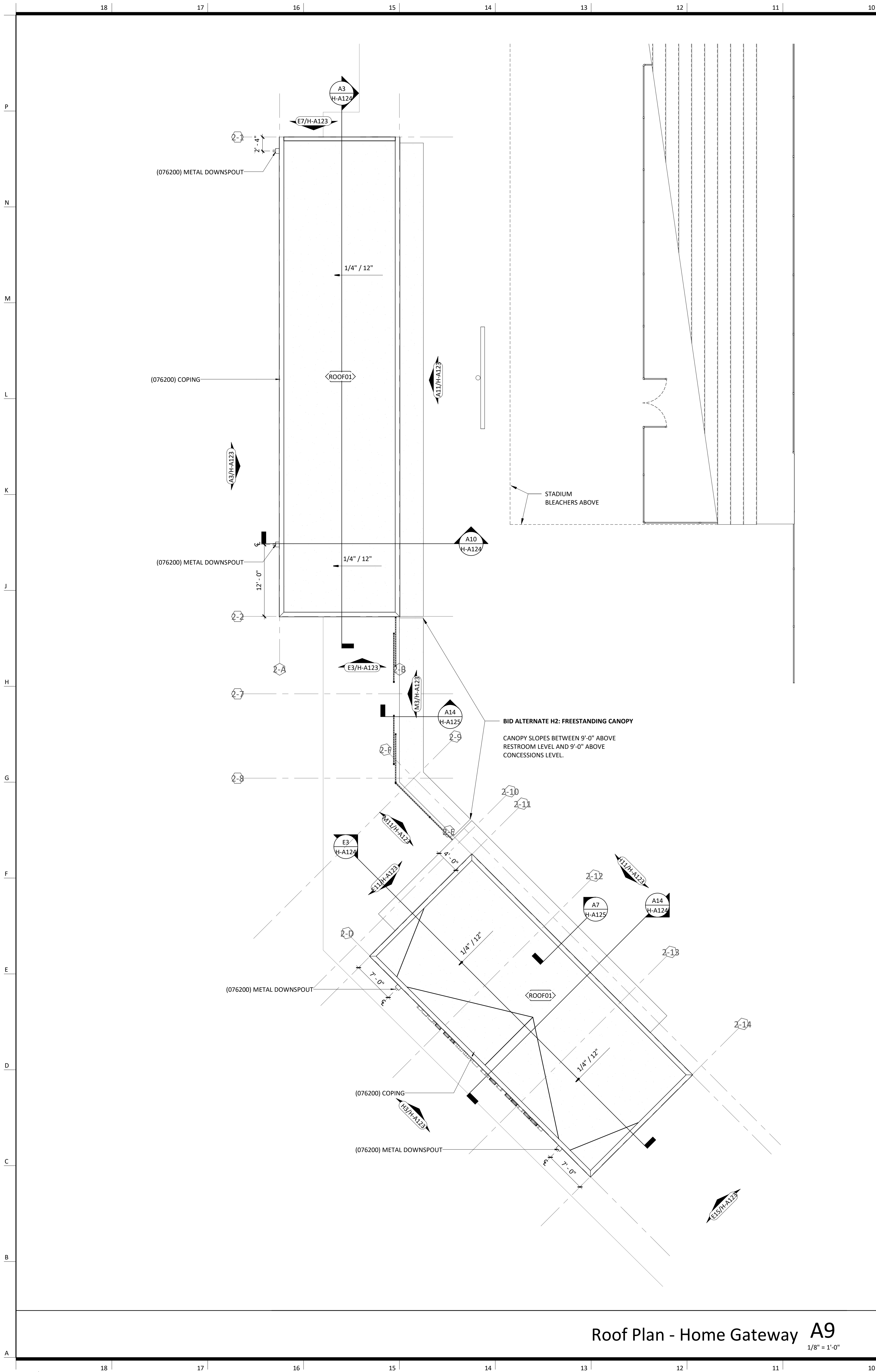
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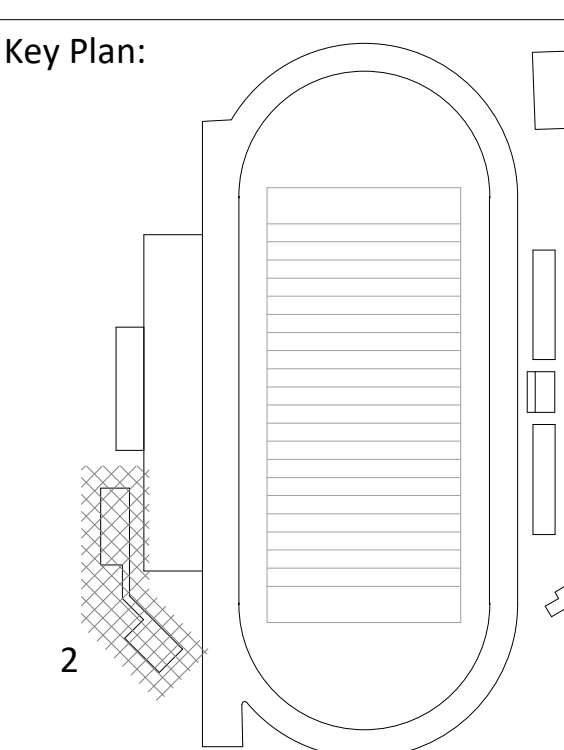
Home Press Box -
Vertical Circulation

H-A118

BID SET



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1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
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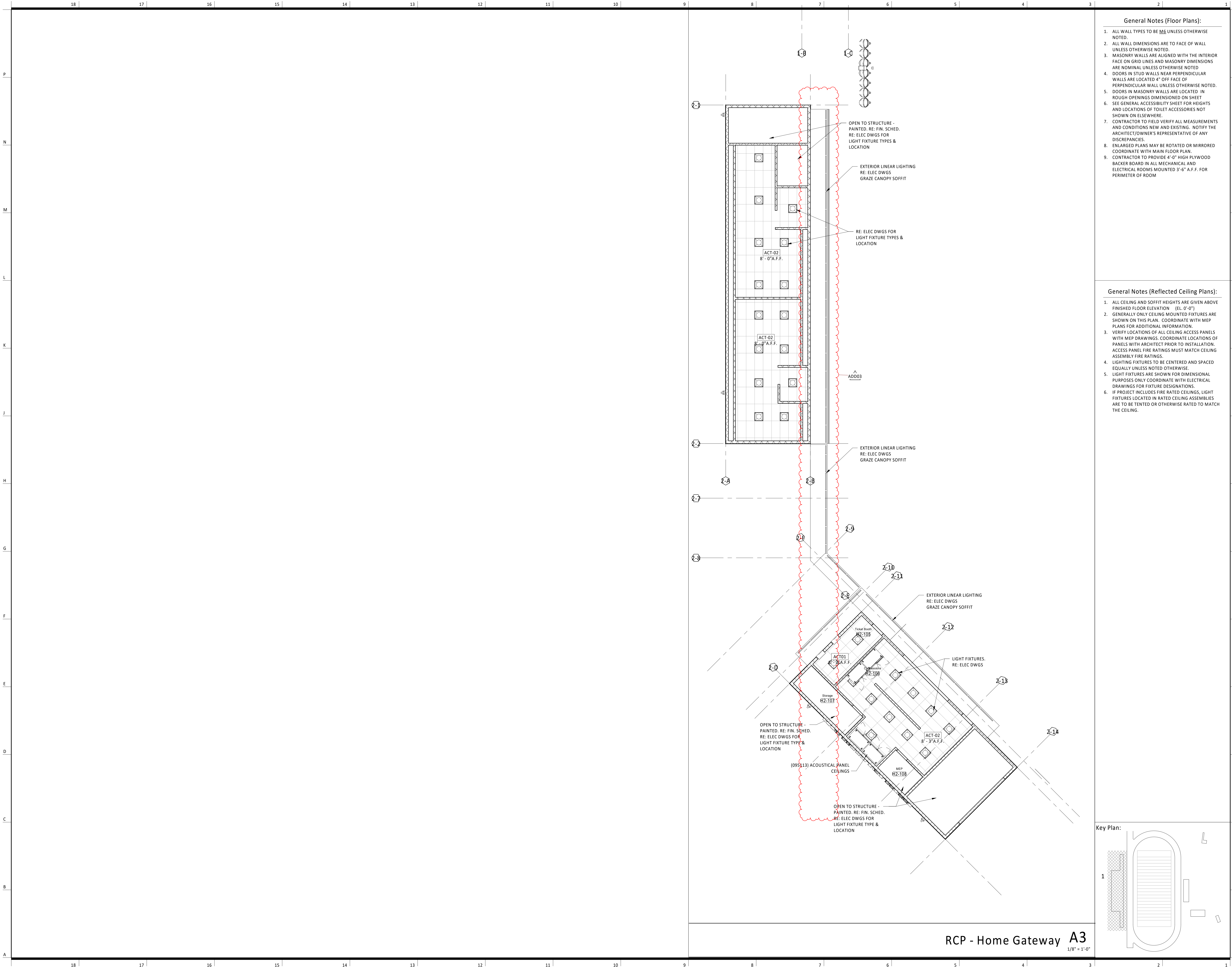
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| Number | DESCRIPTION | DATE |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Home Gateway -
Floor/Roof/Plans

H-A121

BID SET



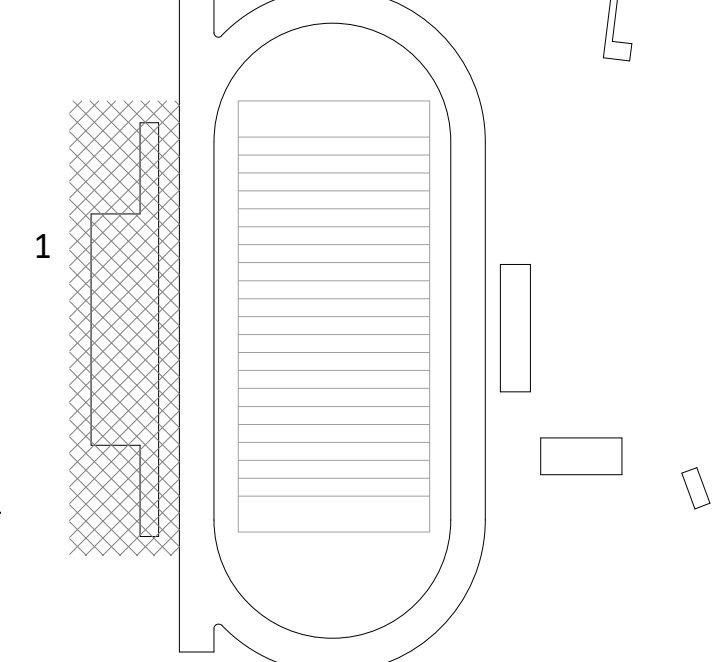
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8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

General Notes (Reflected Ceiling Plans):

1. ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL: 0'-0").
2. GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
3. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
4. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
5. LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
6. IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

Key Plan:



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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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Architect License No. A-2009027279
Date: 11/03/2020

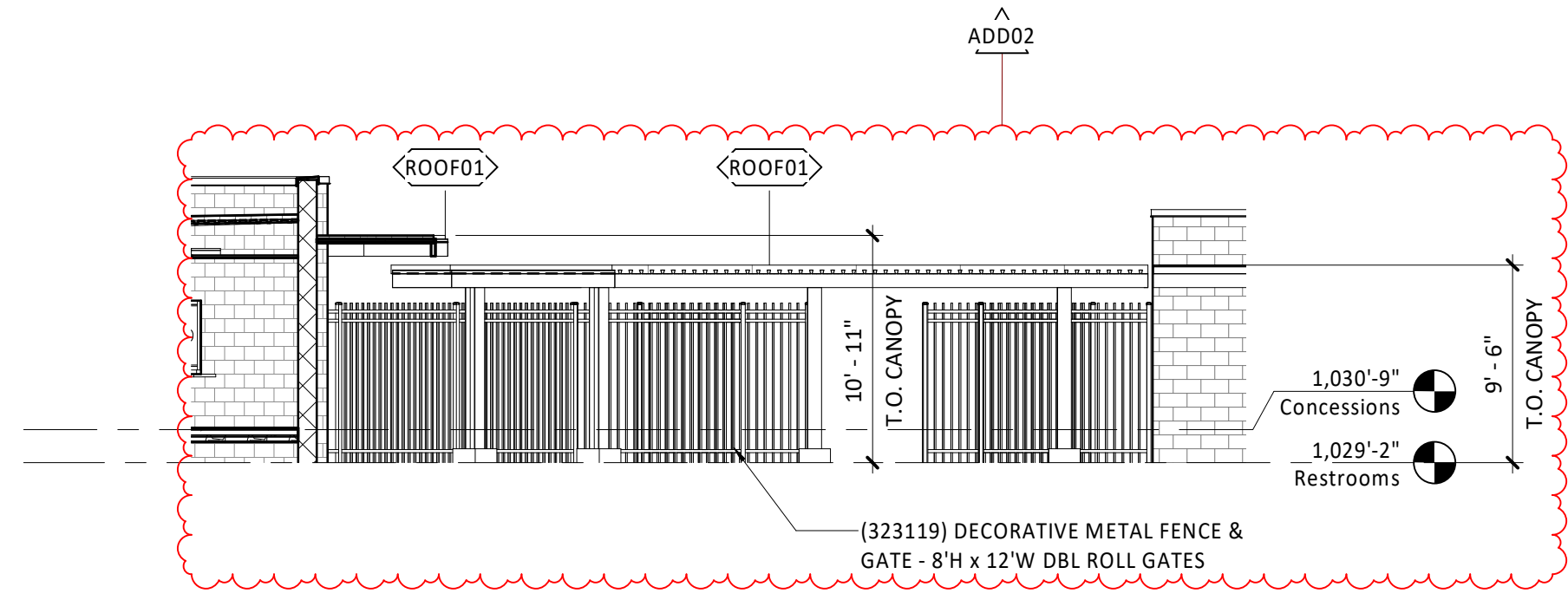
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| ADD03 | Addendum 03 | 10/23/20 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

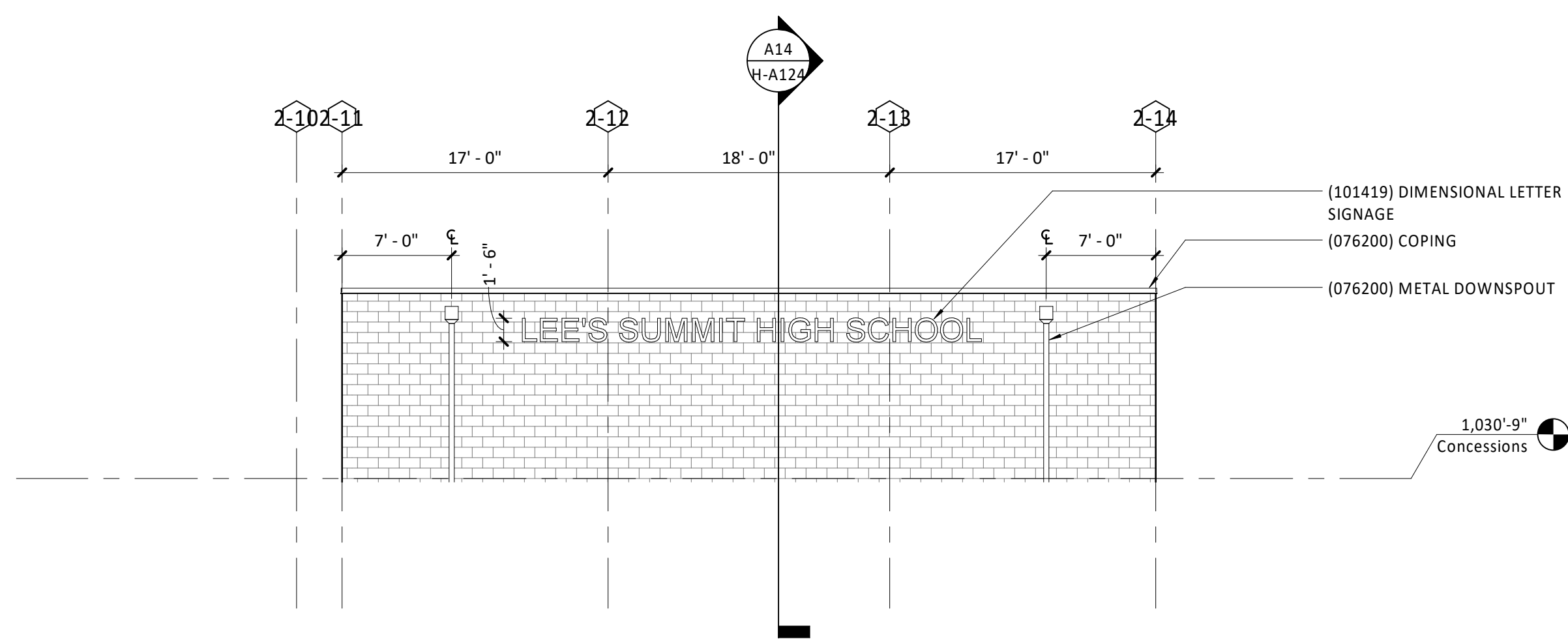
Home Gateway -
Reflected Ceiling Plans

H-A122

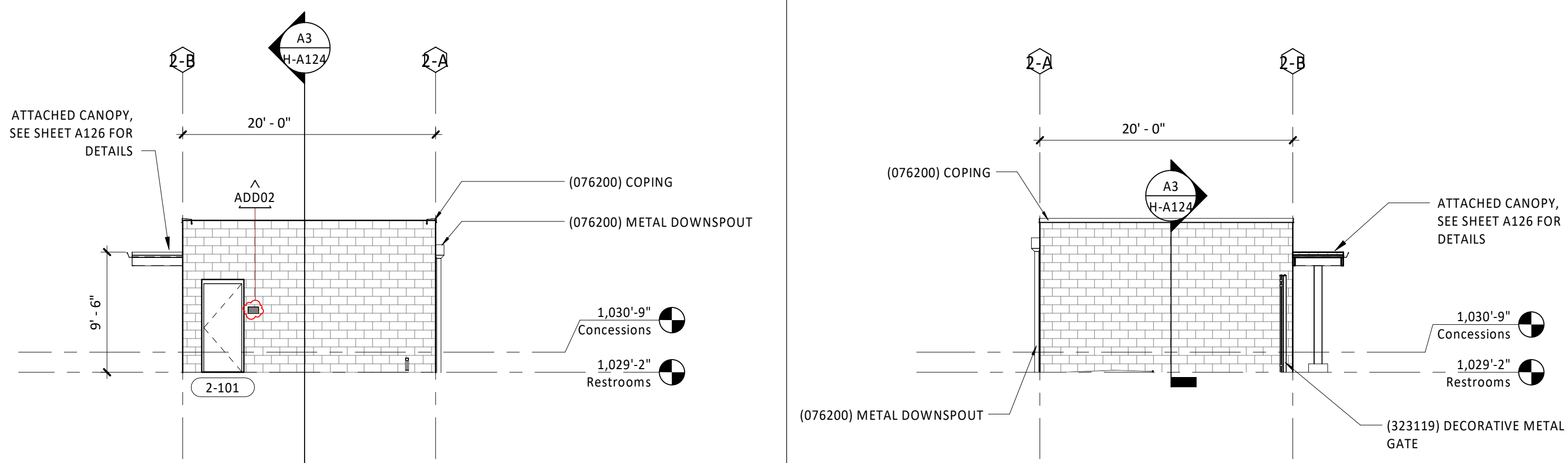
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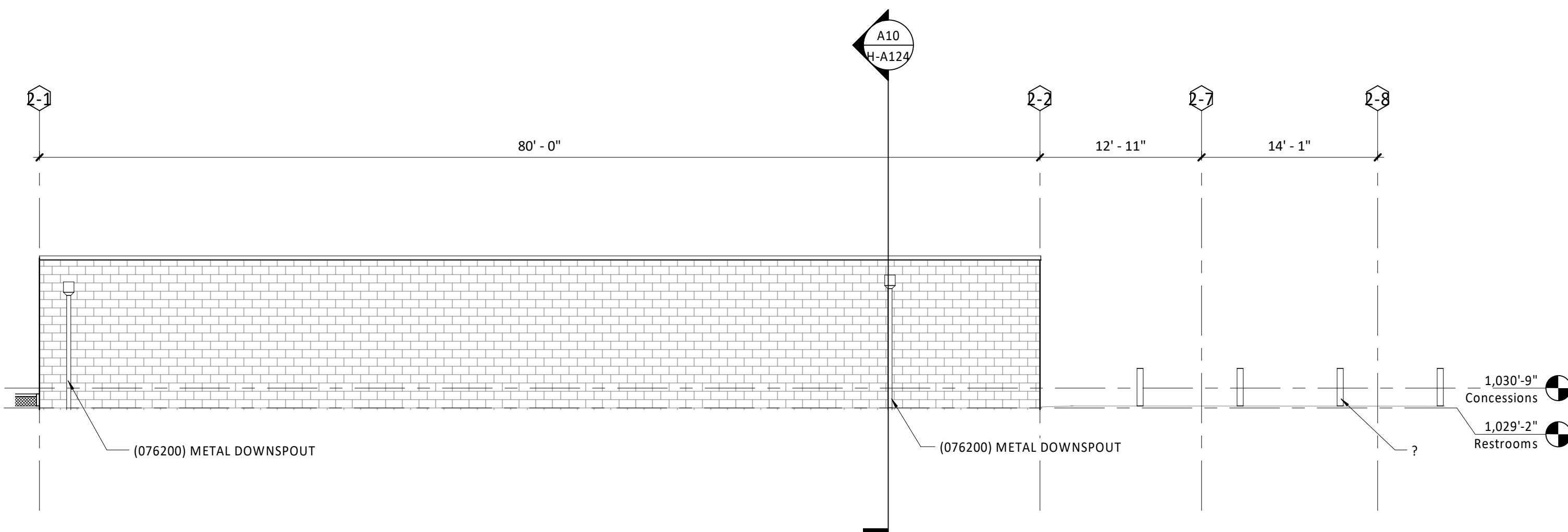
East Elevation - Canopy Alternate H2 M3
1/8" = 1'-0"



SW Elevation - Ticket Booth & Concessions **H3**
1/8" = 1'-0"

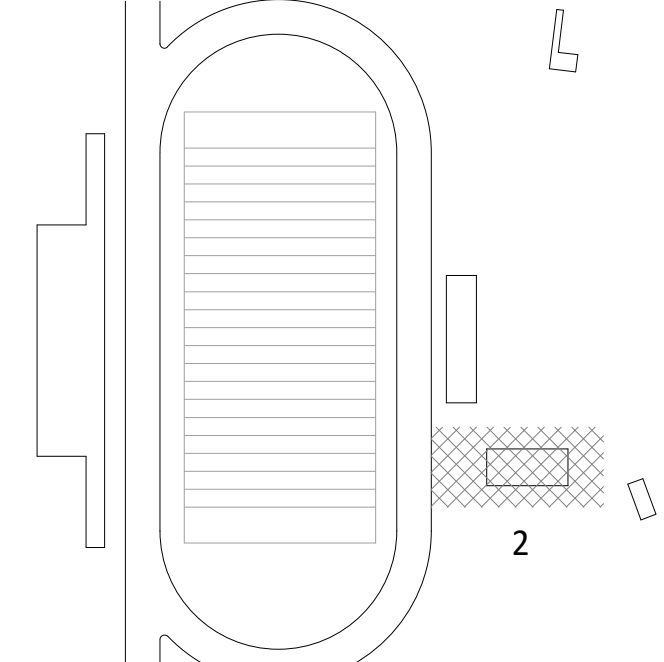


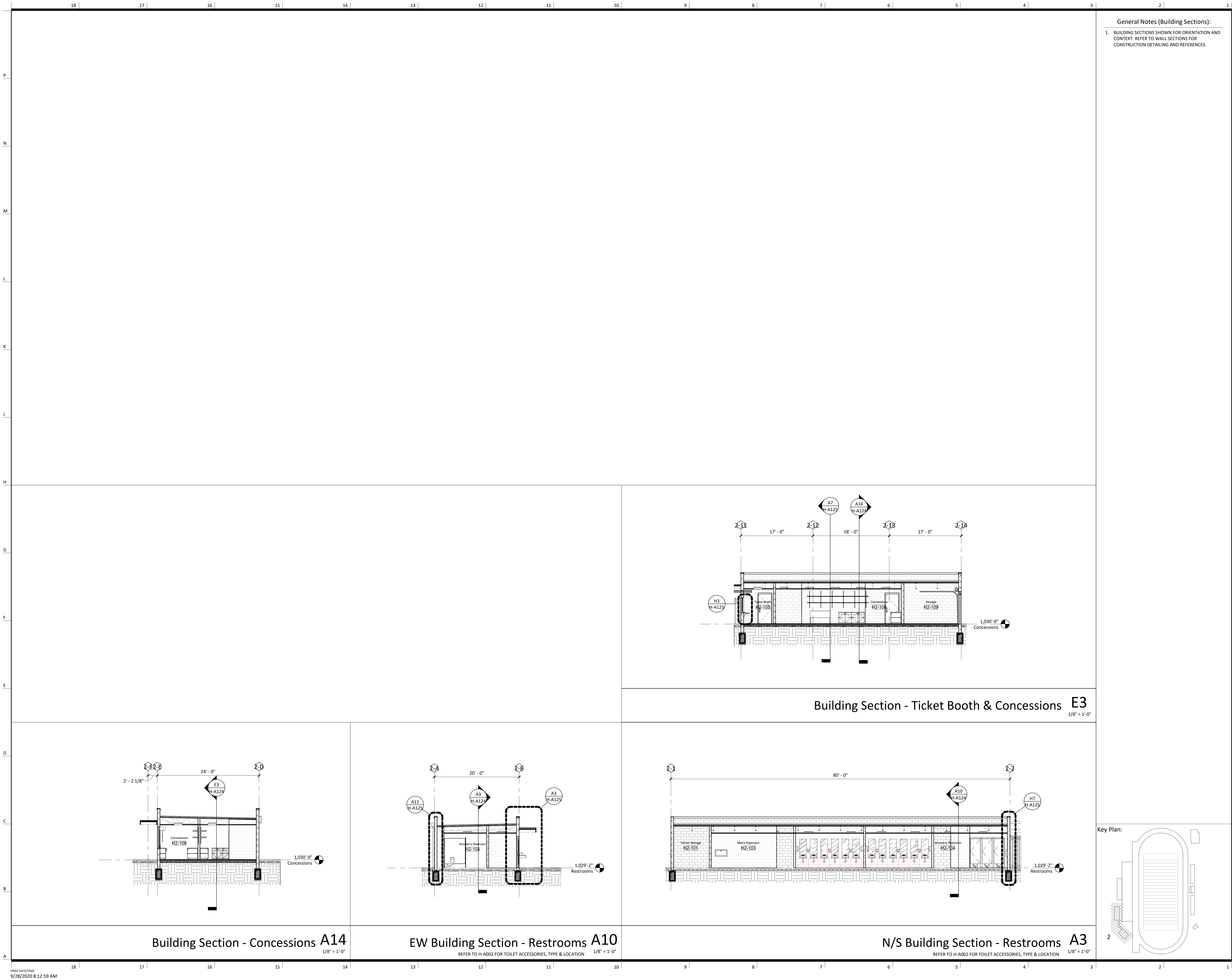
South Elevation - Restrooms E3
1/8" = 1'-0"



West Elevation - Restrooms **A3**
1/8" = 1'-0"

BID SET





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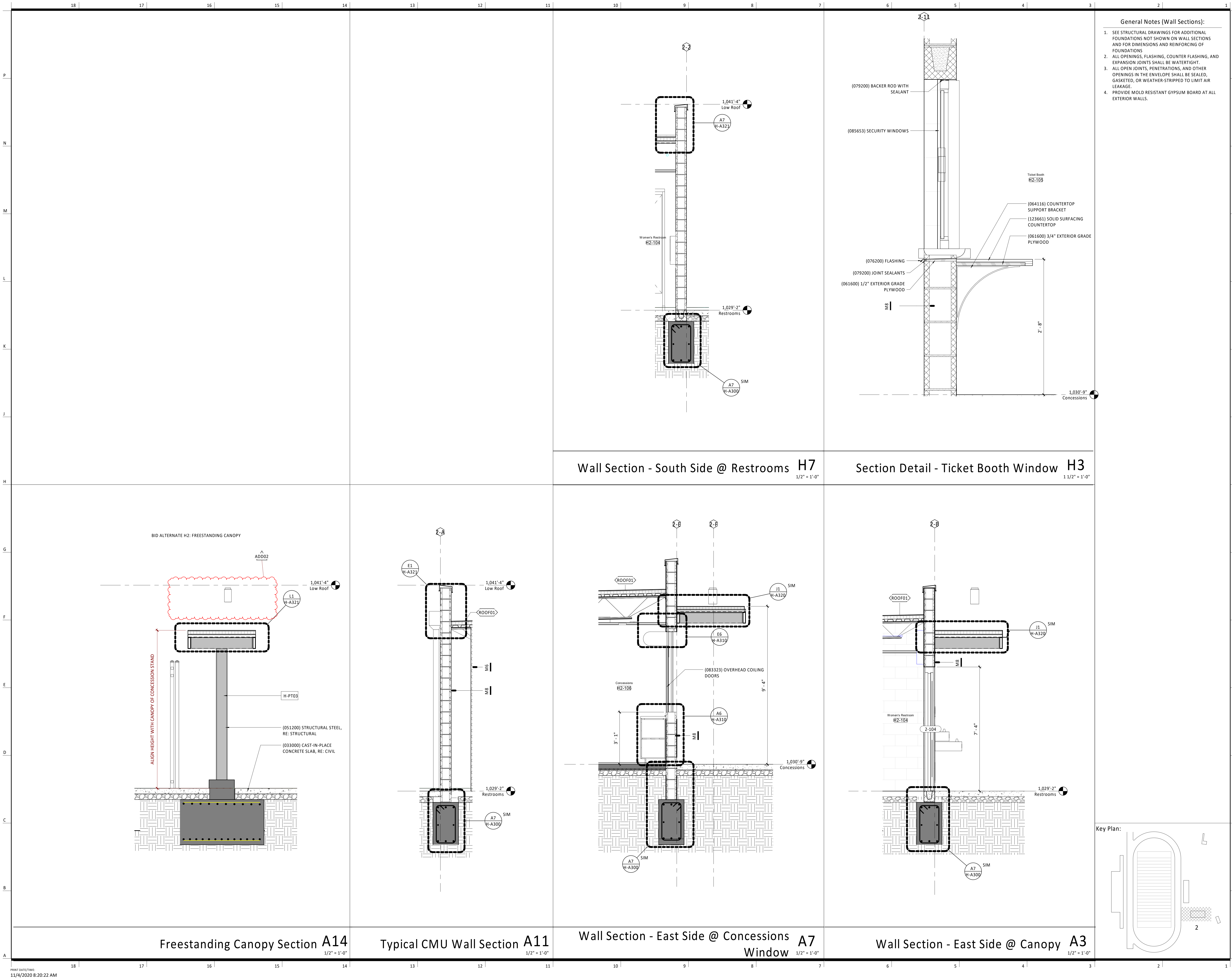
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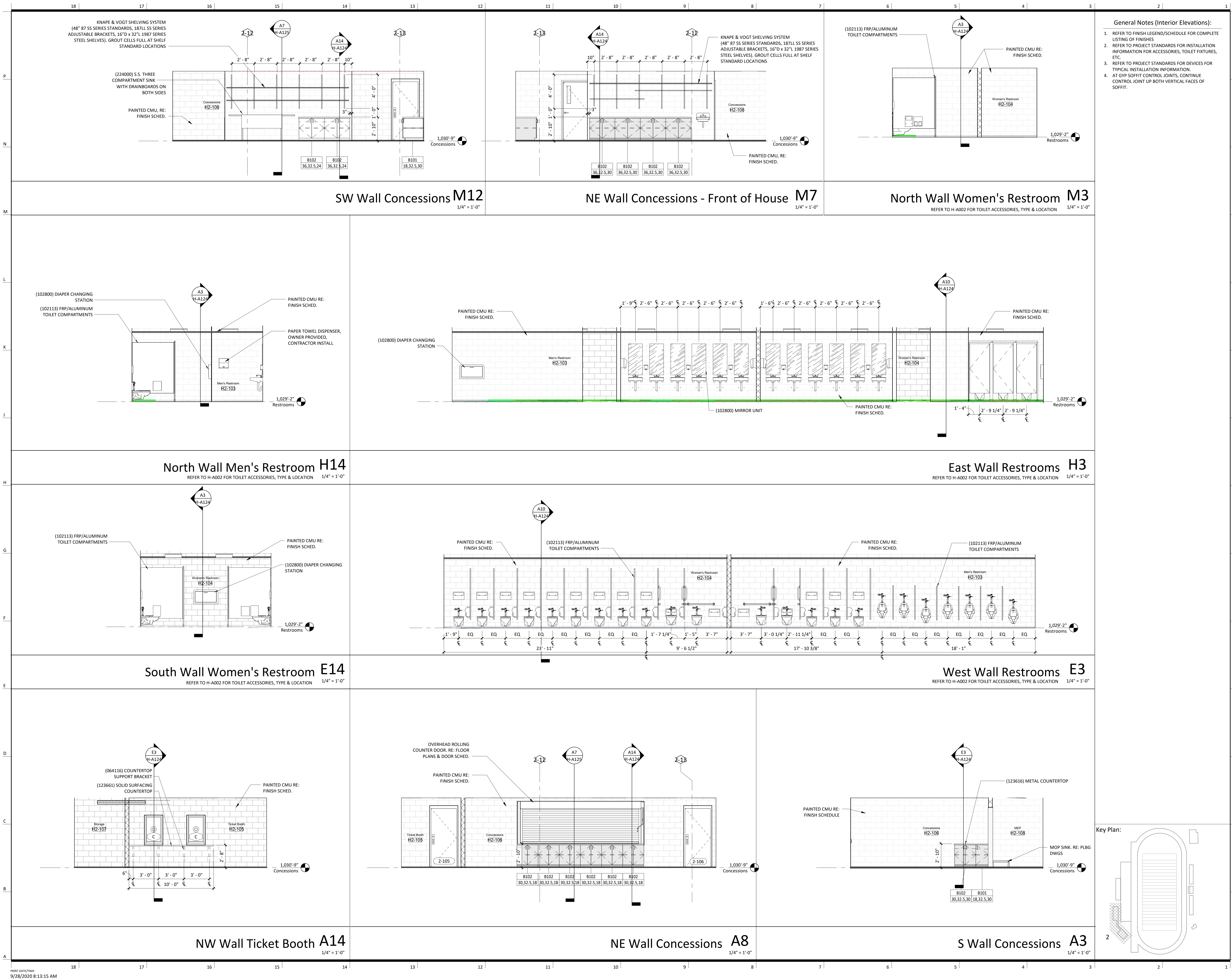
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Home Gateway -
Building Sections

H-A124

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Lee's Summit R7 District
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Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
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Lee's Summit, MO 64086

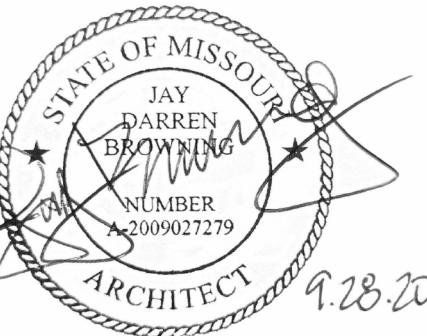
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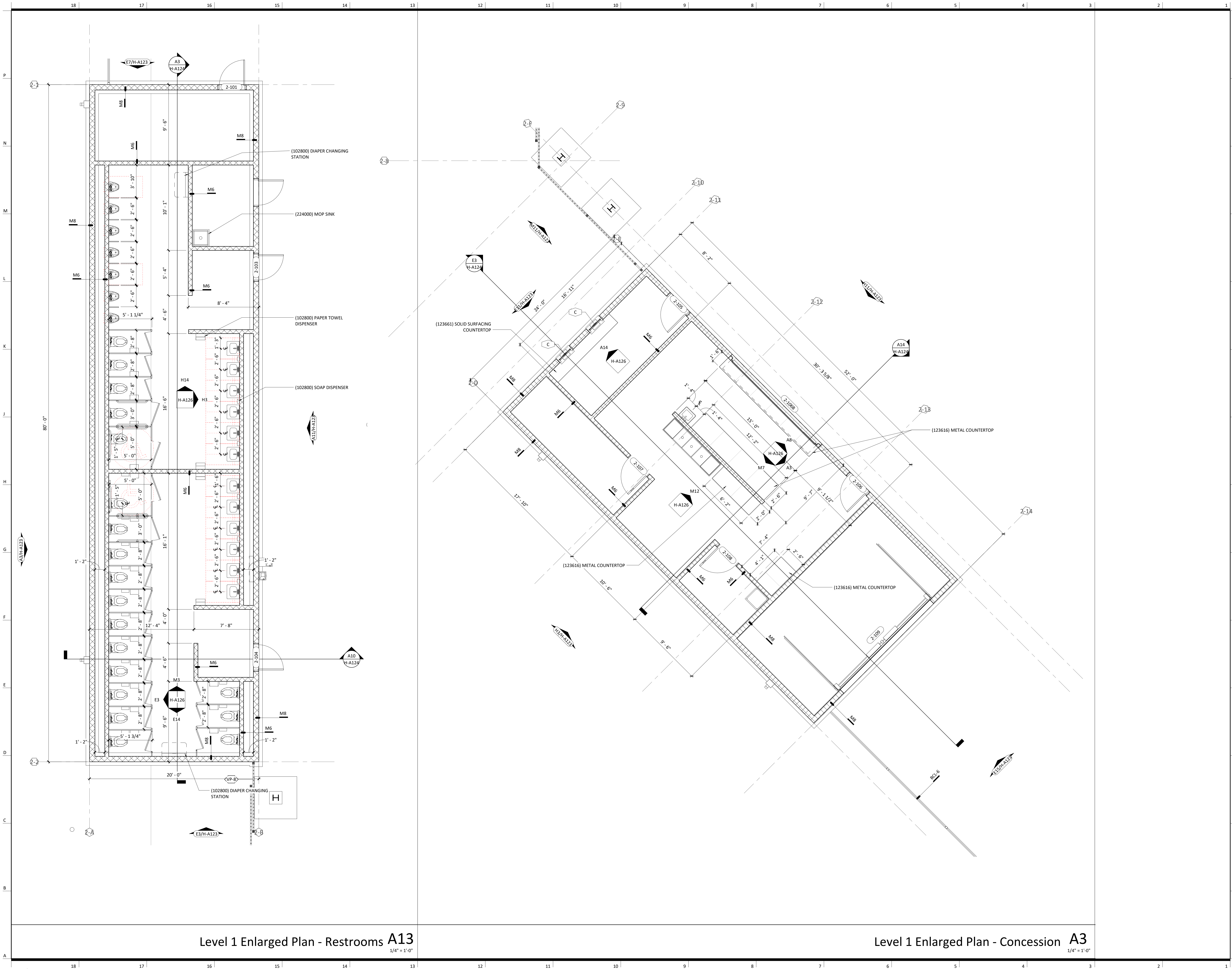
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PROJECT NO: 0119-0101
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Home Gateway -
Enlarged Plans

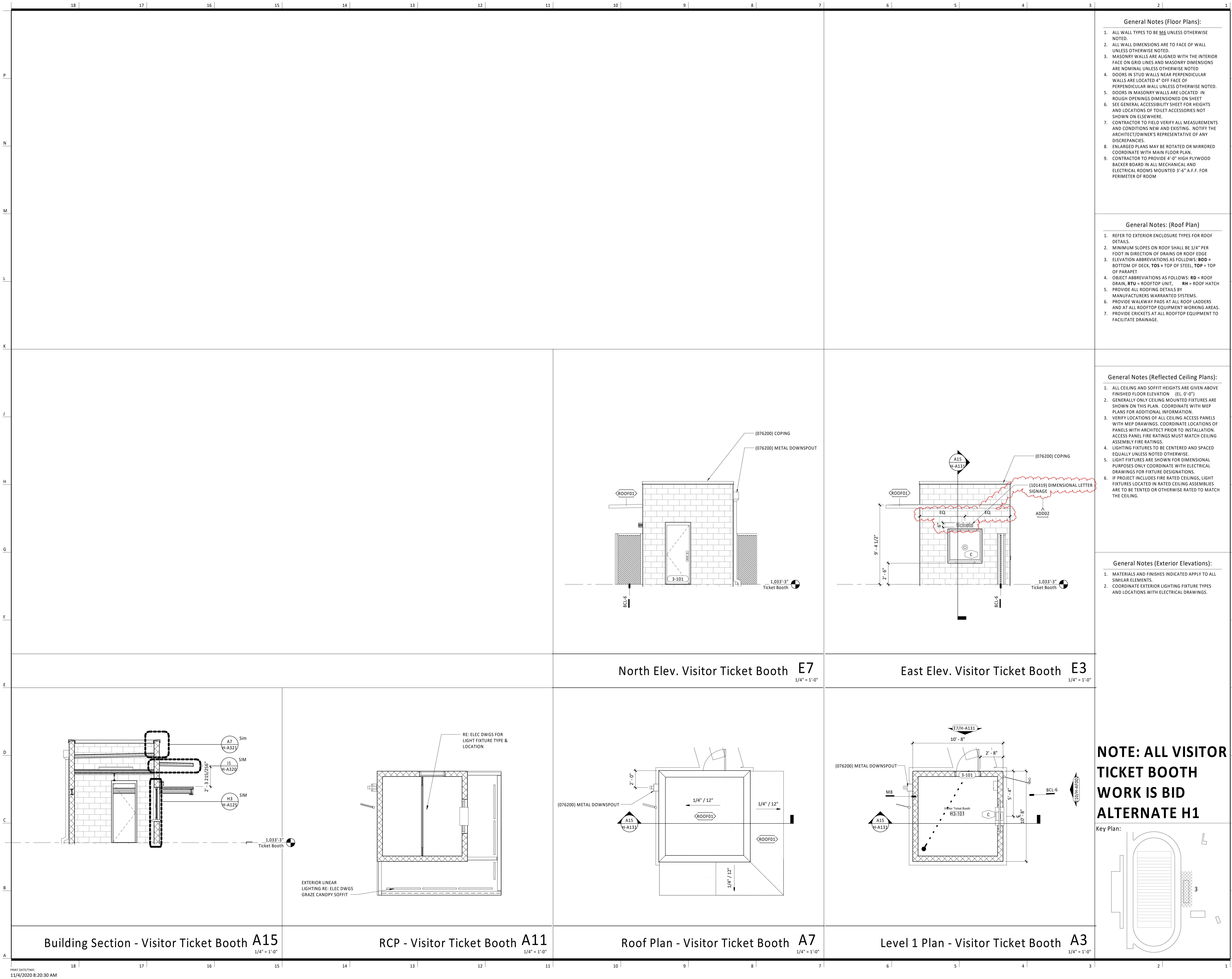
H-A127

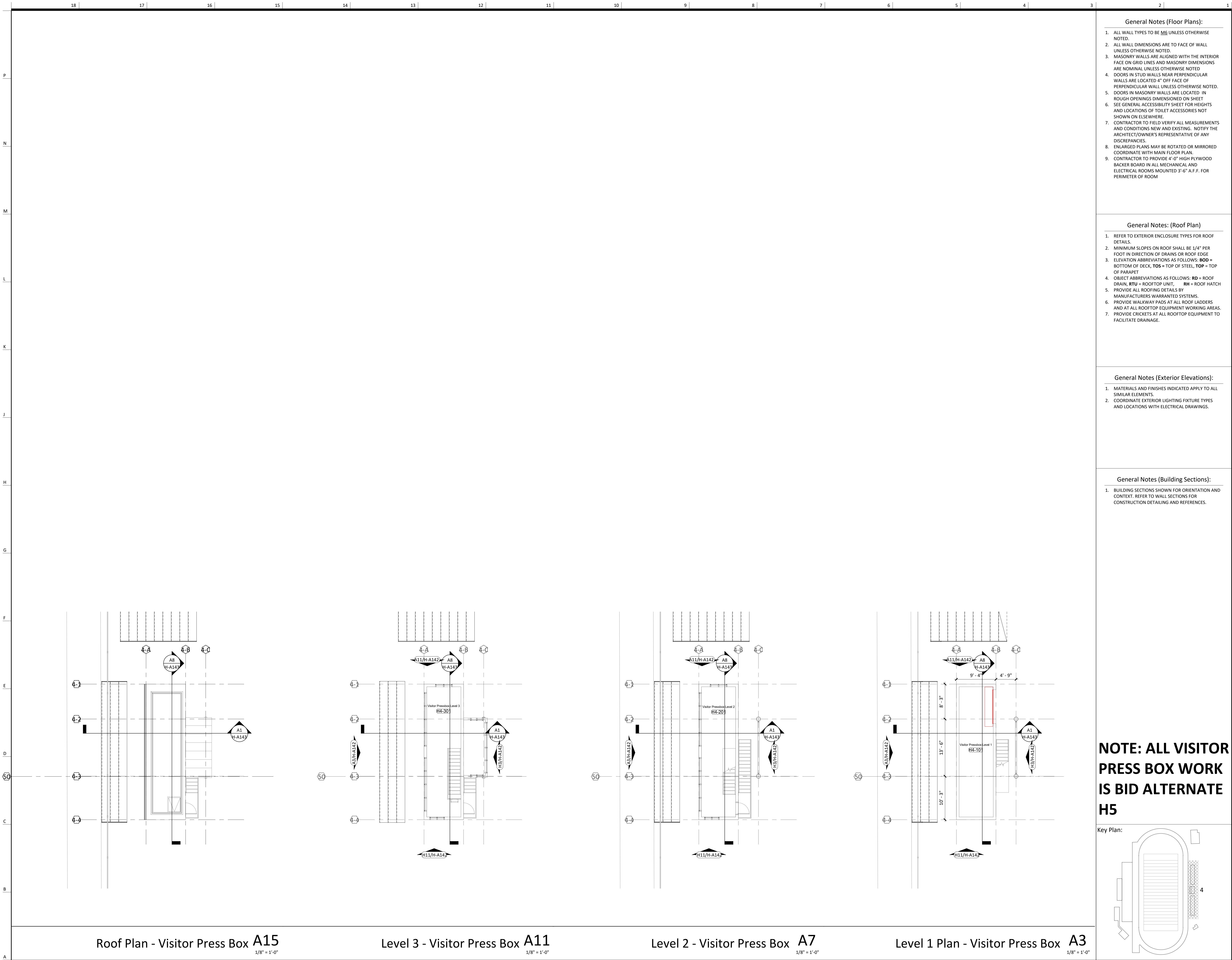
BID SET



Level 1 Enlarged Plan - Restrooms A13
1/4" = 1'-0"

Level 1 Enlarged Plan - Concession A3
1/4" = 1'-0"





General Notes (Floor Plans):

1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

General Notes: (Roof Plan)

1. REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
2. MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
3. ELEVATION ABBREVIATIONS AS FOLLOWS: **BOD** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET.
4. OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **RH** = ROOF HATCH.
5. PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.
6. PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
7. PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.

General Notes (Exterior Elevations):

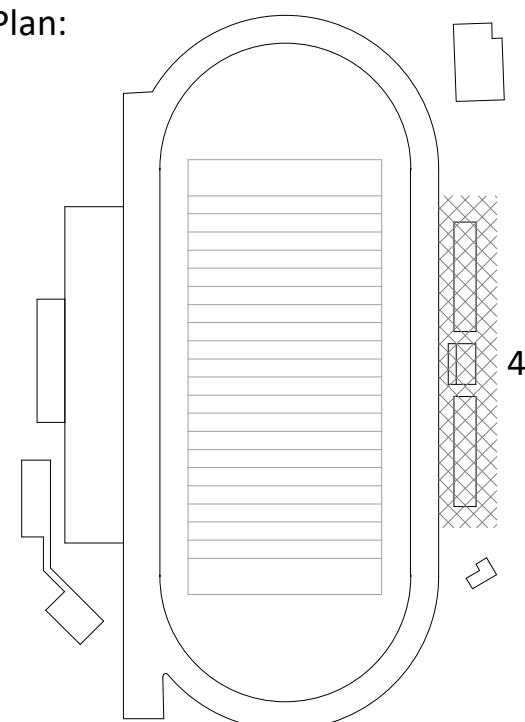
1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS.
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

General Notes (Building Sections):

1. BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

NOTE: ALL VISITOR PRESS BOX WORK IS BID ALTERNATE H5

Key Plan:



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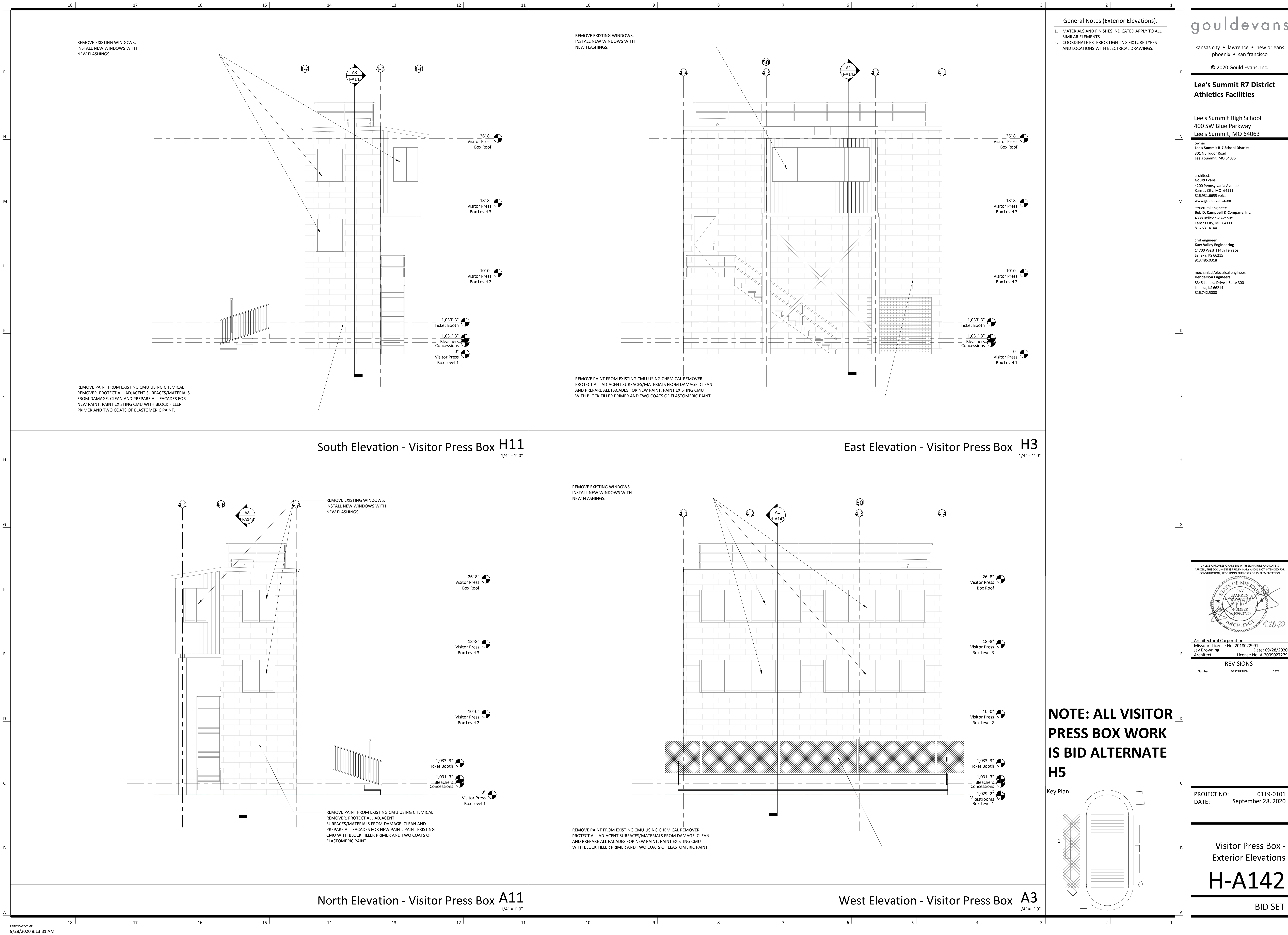
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Visitor Press Box -
Plans, Exterior
Elevations, & Sections

H-A141

BID SET



General Notes (Exterior Elevations):

1. MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS
2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

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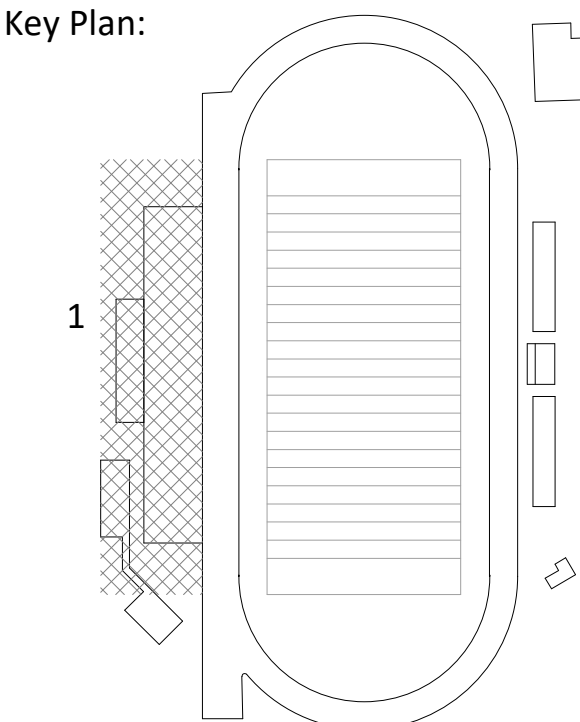


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NOTE: ALL VISITOR
PRESS BOX WORK
IS BID ALTERNATE
H5

Key Plan:



PROJECT NO: 0119-0101
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Visitor Press Box -
Exterior Elevations

H-A142

BID SET

**Lee's Summit R7 District
Athletics Facilities**

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400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

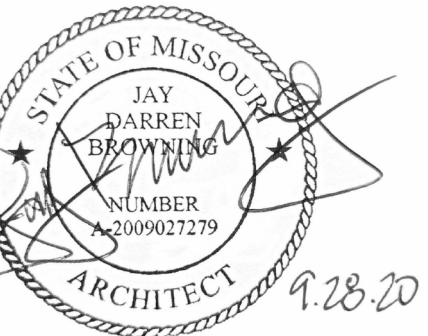
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structural engineer:
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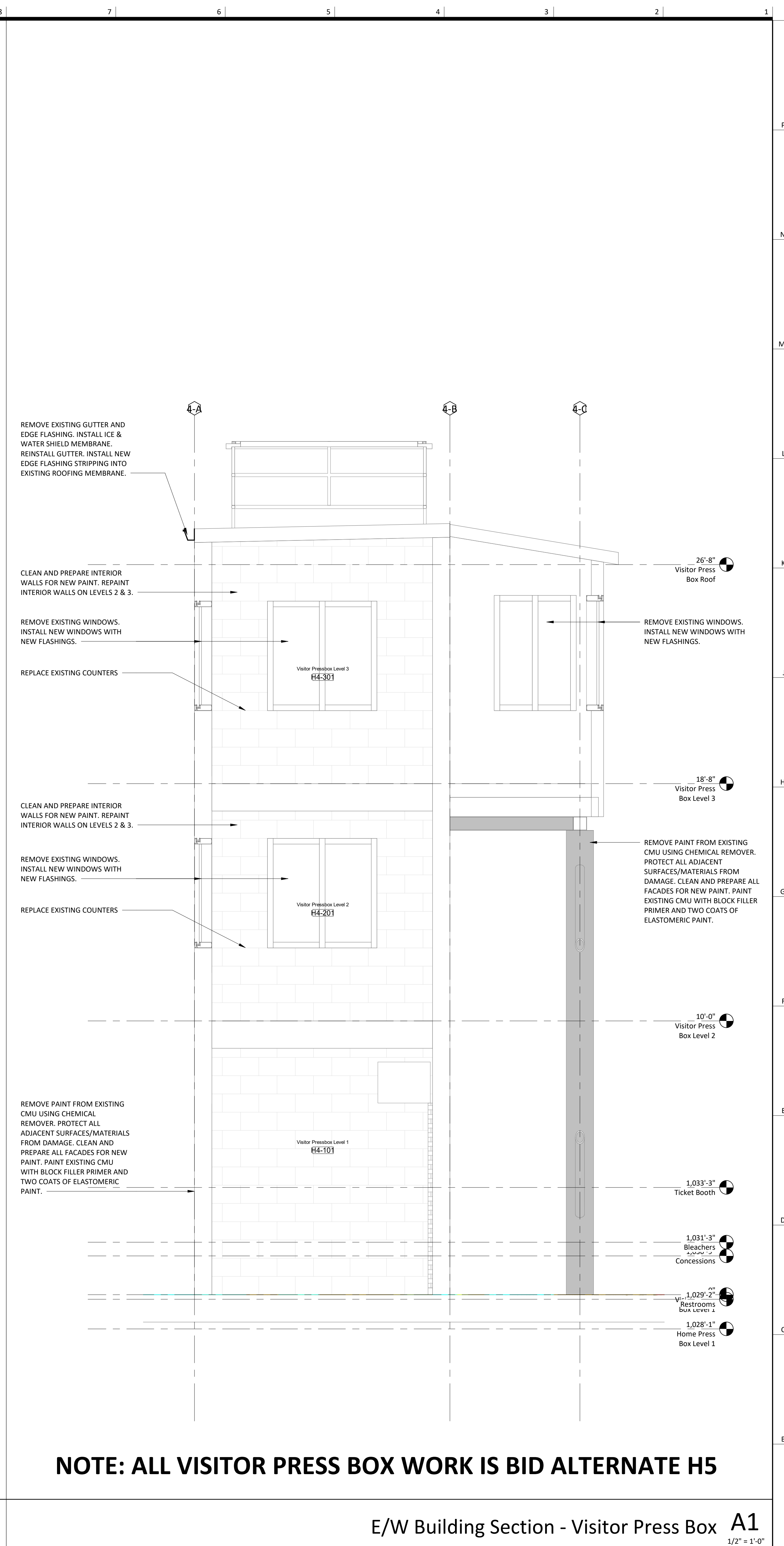
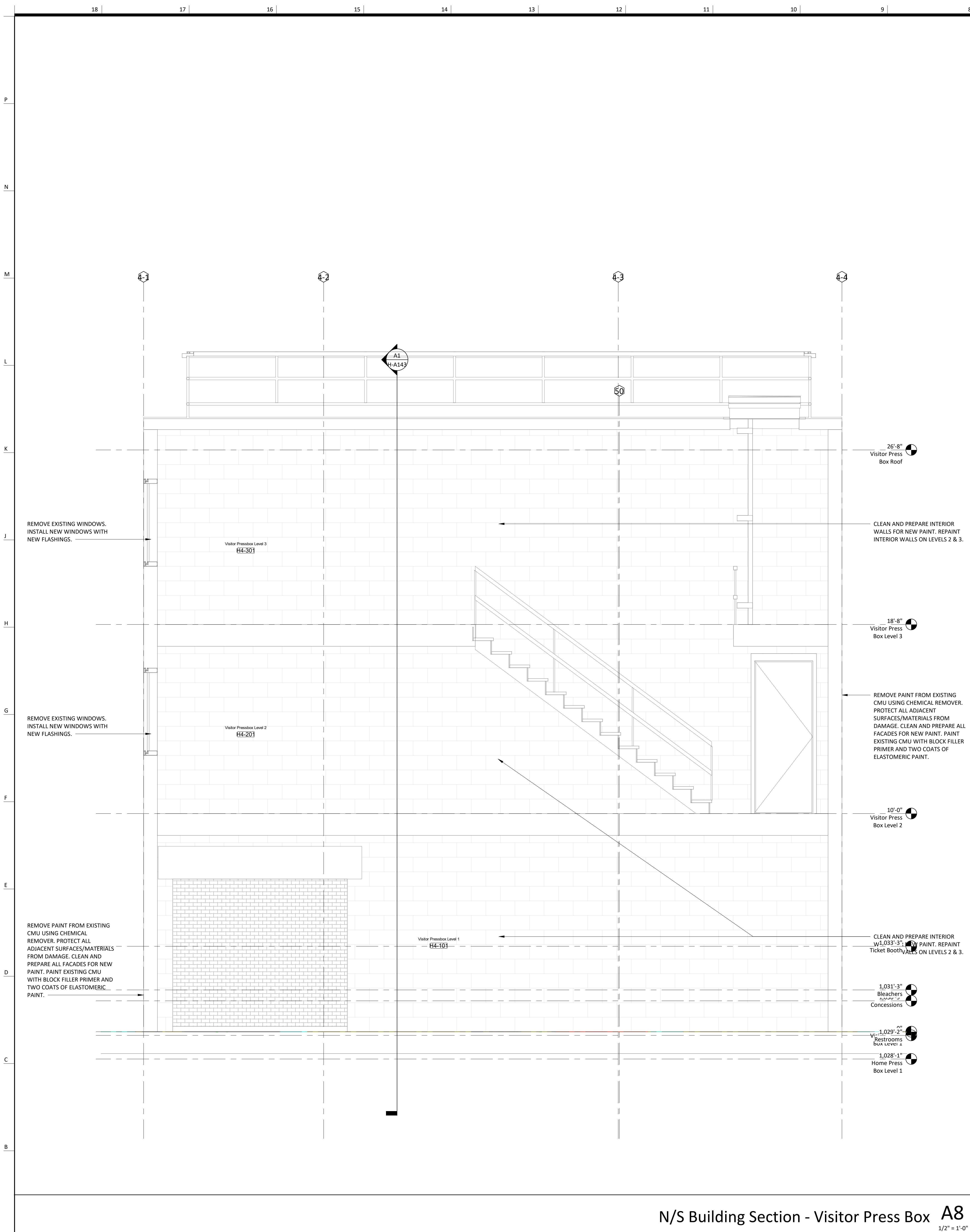
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Visitor Press Box -
Building Sections

H-A143

BID SET



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

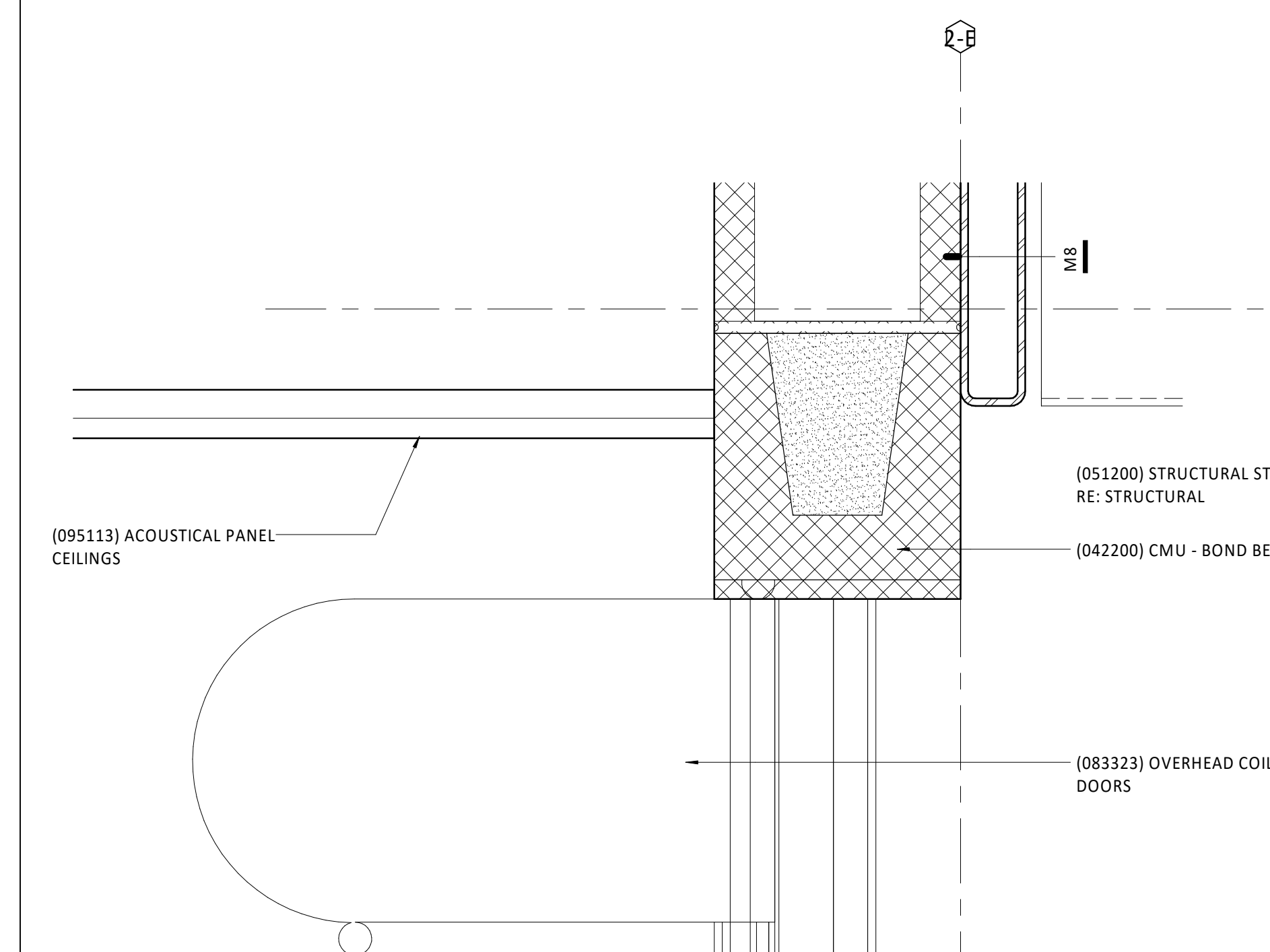
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

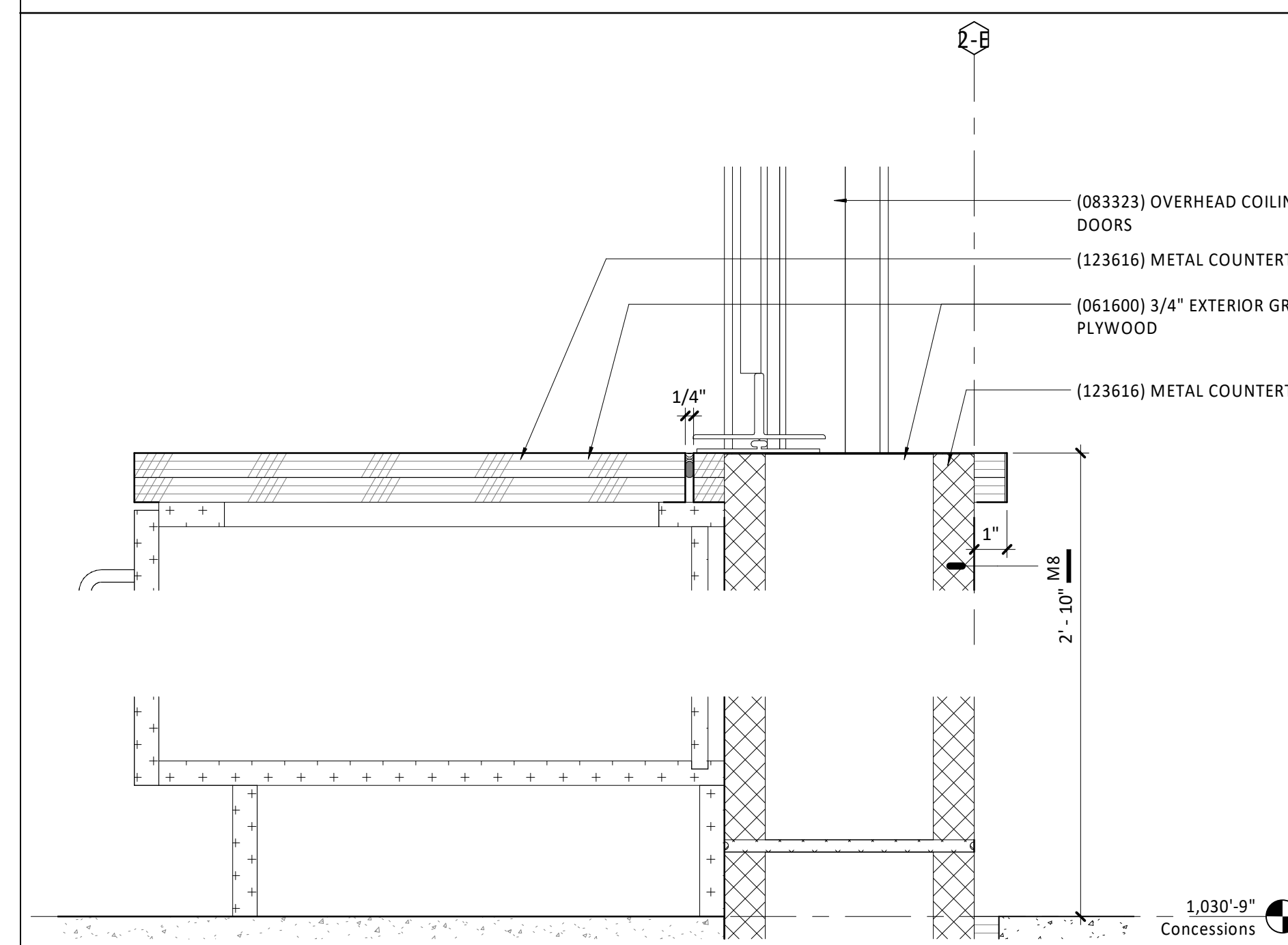
structural engineer:
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Kansas City, MO 64111
816.531.4144

civil engineer:
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Lenexa, KS 66215
913.485.0318

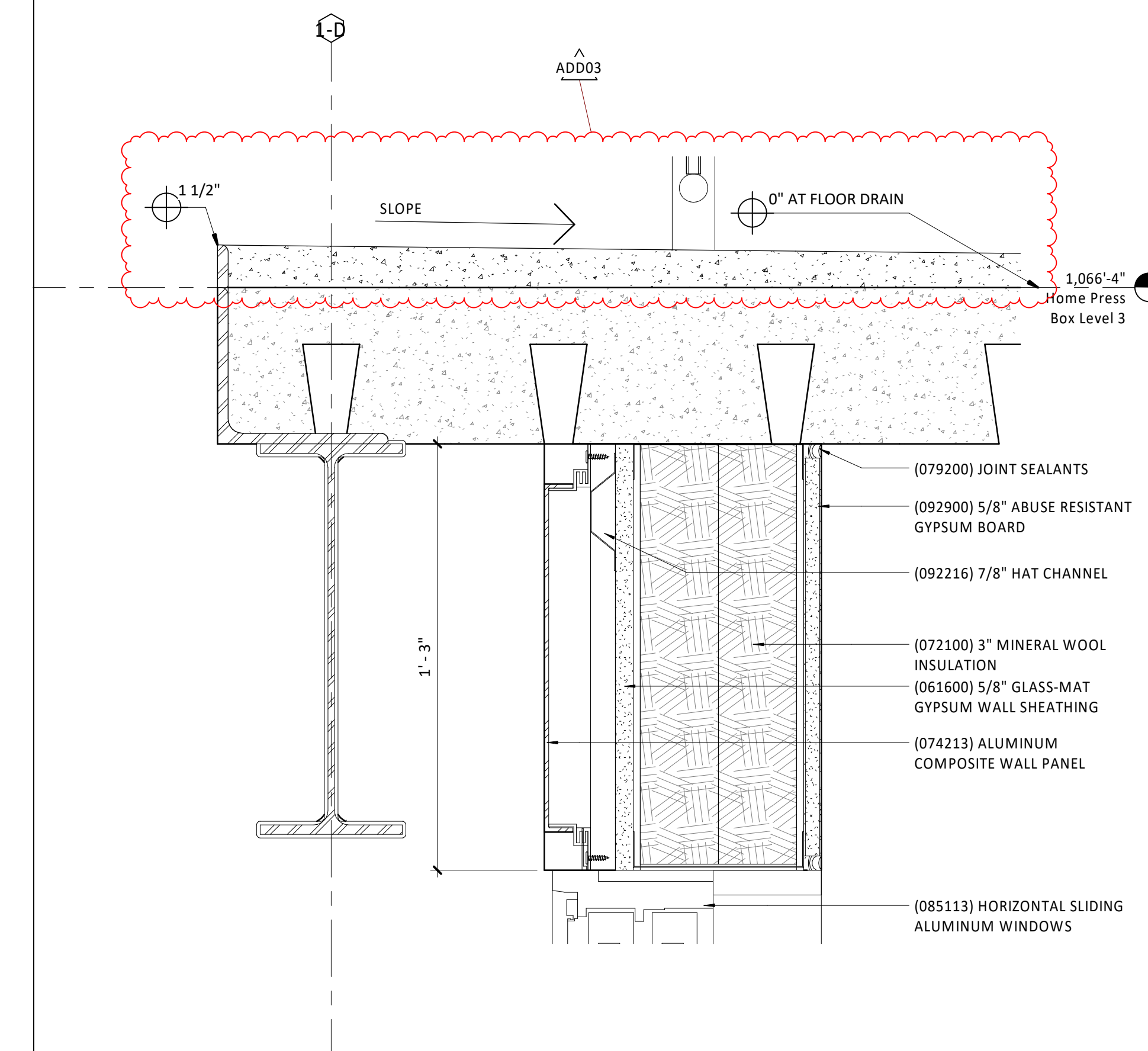
mechanical/electrical engineer:
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Lenexa, KS 66214
816.742.5000



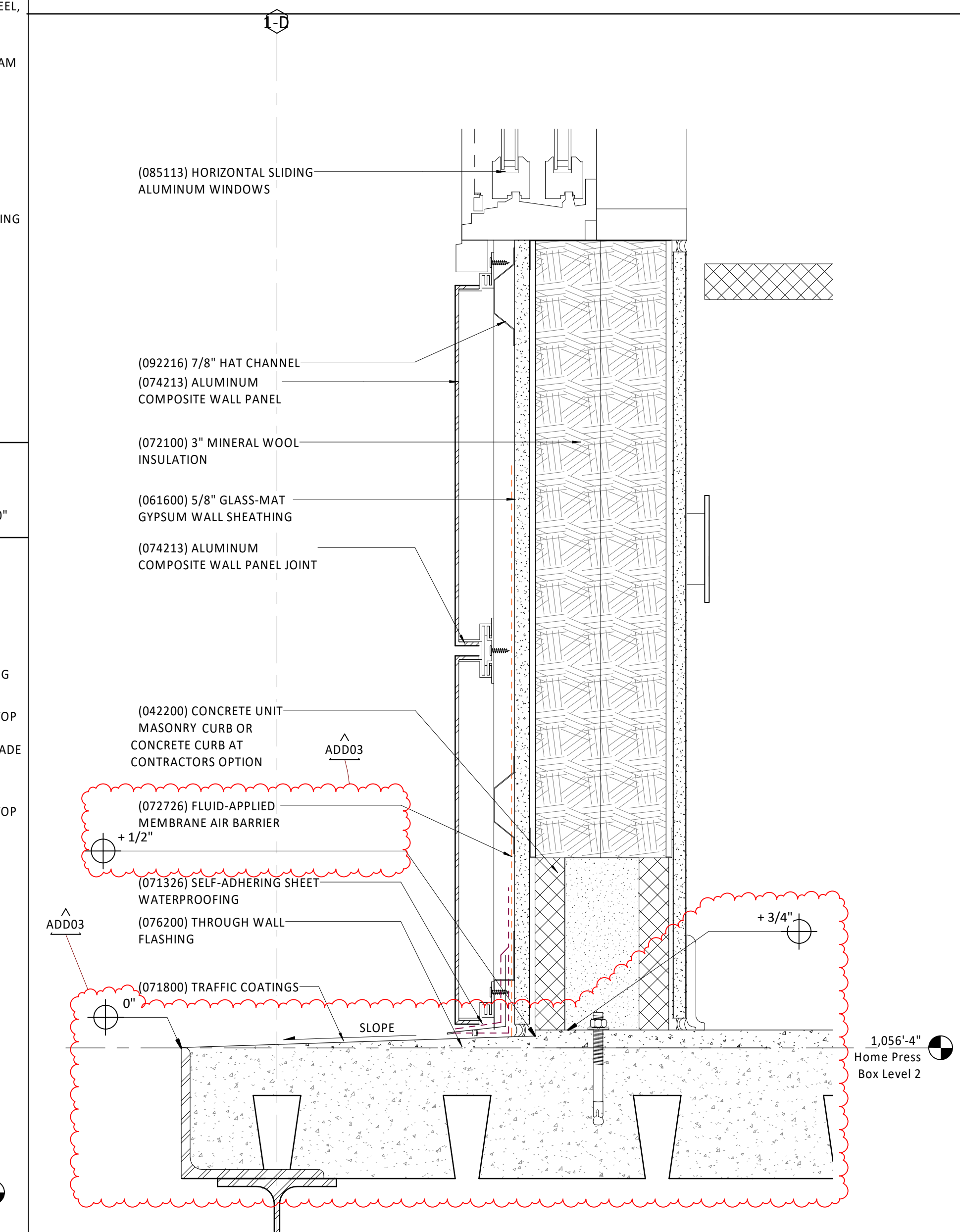
Concessions Window Head E6
3" = 1'-0"



Wall Section - East Side @ Concessions Window A6
3" = 1'-0"

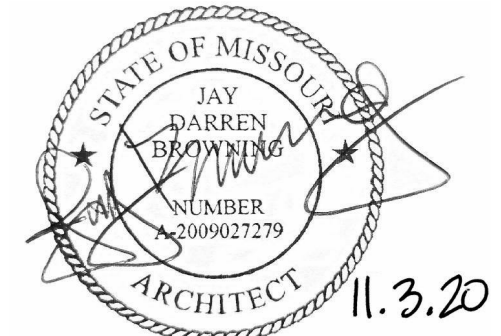


Detail Section - East Wall Press Box -@ Window Head H1
3" = 1'-0"



Detail Section - East Wall Press Box @ Window Sill **A1**
3" = 1'-0"

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Exterior Section Details - Intermediate

H-A310

BID SET

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

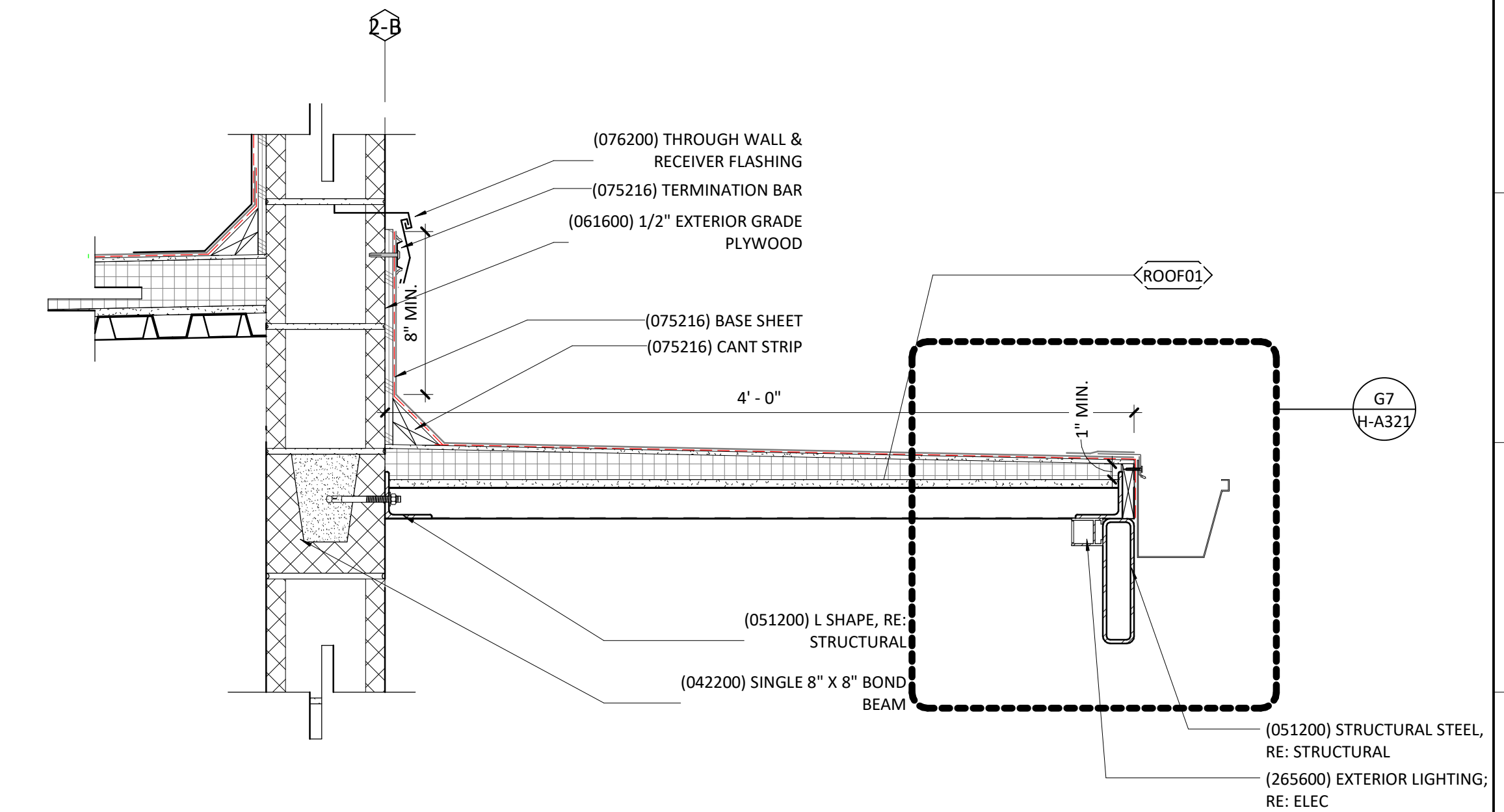
owner:
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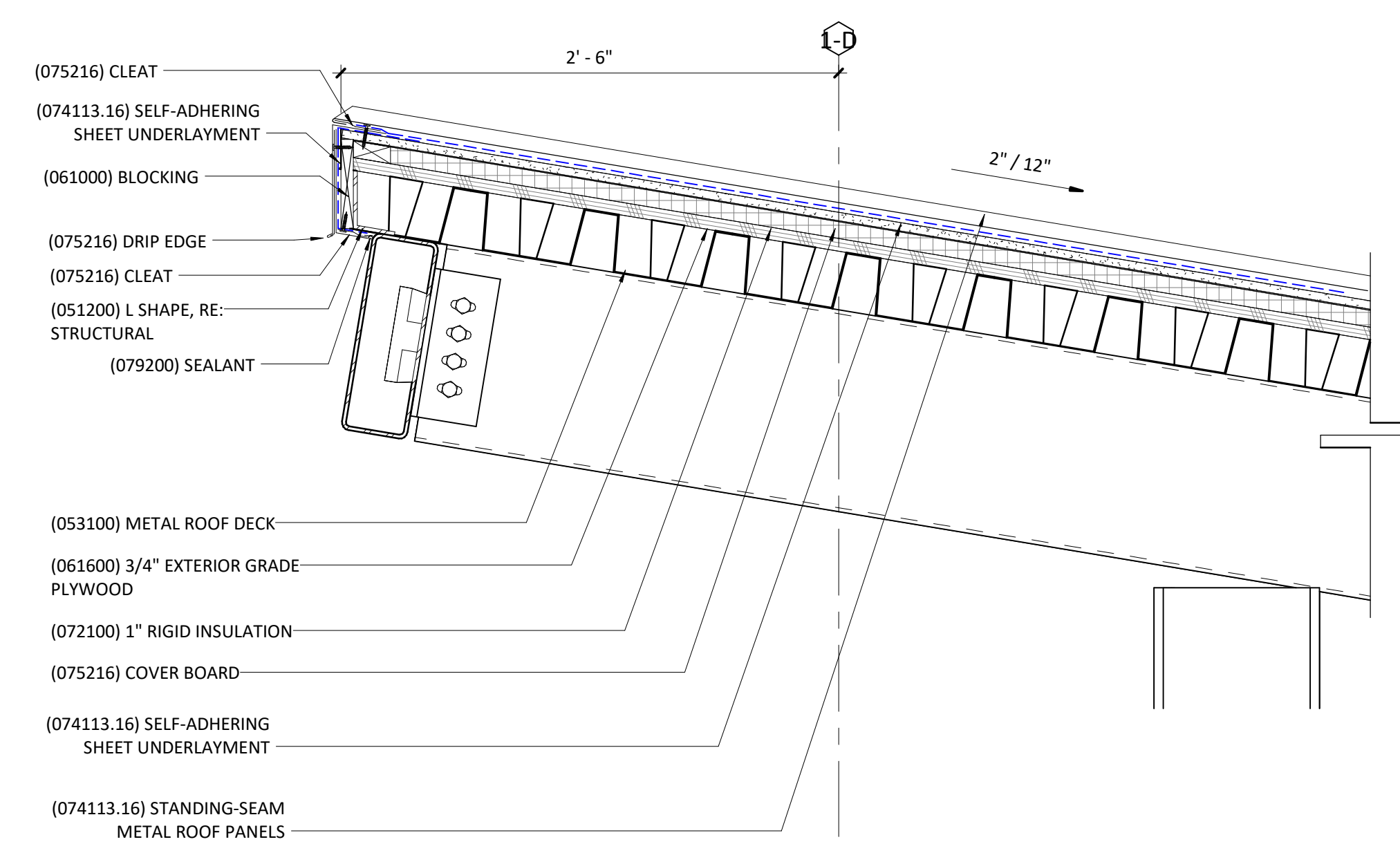
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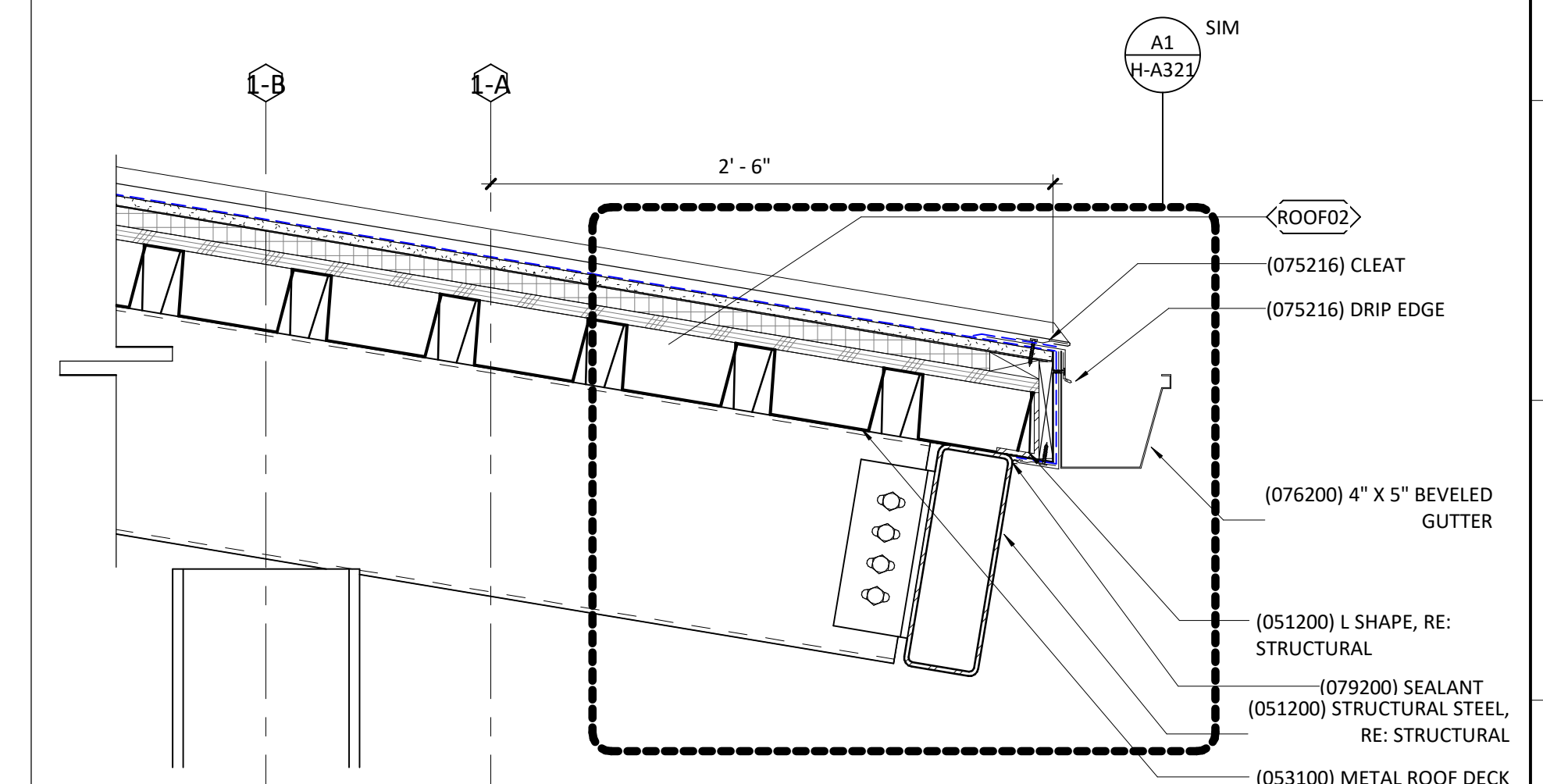
mechanical/electrical engineer:
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Section Detail @ Parapet **J1**
1 1/2" = 1'-0"

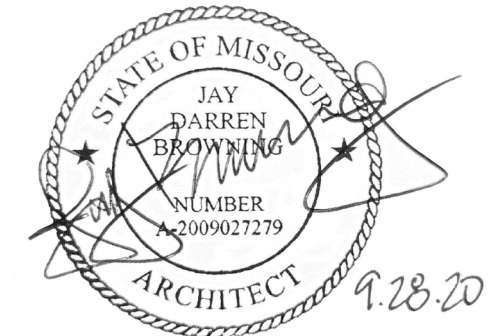


Section Detail - East Roof Edge @ Open Video Deck **E6**
1 1/2" = 1'-0"



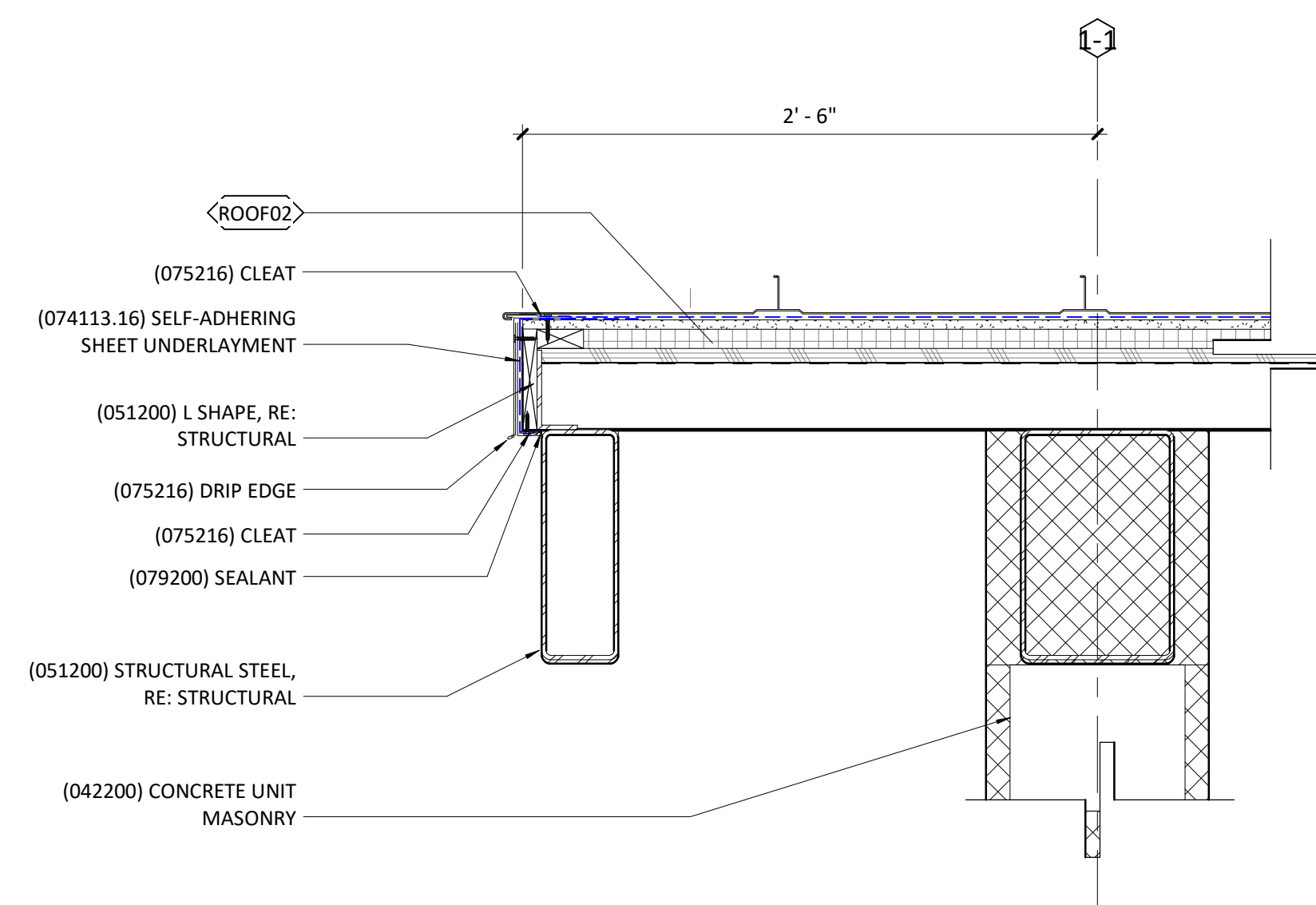
Section Detail - West Roof Edge @ Open Video Deck **E1**
1 1/2" = 1'-0"

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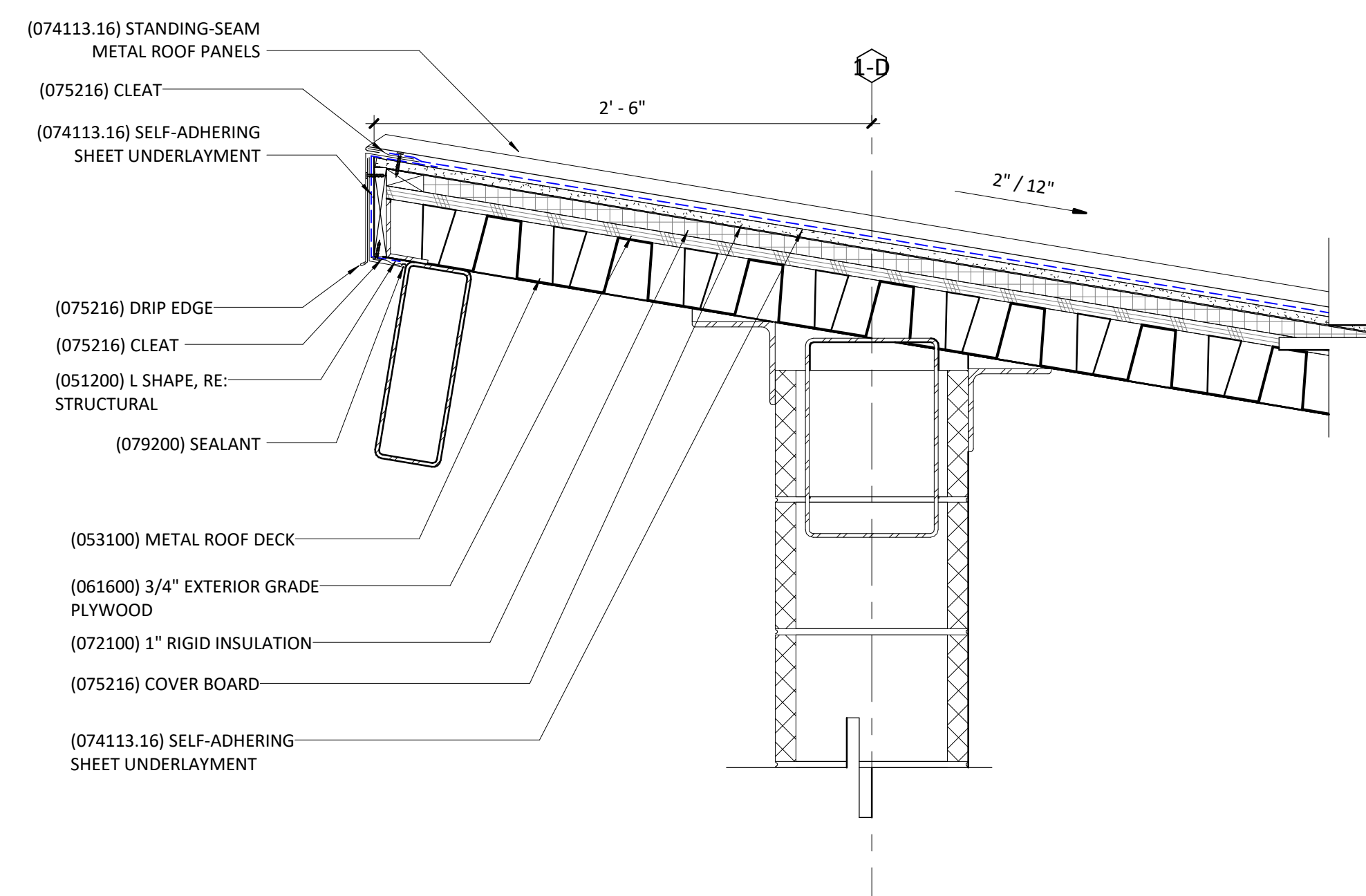


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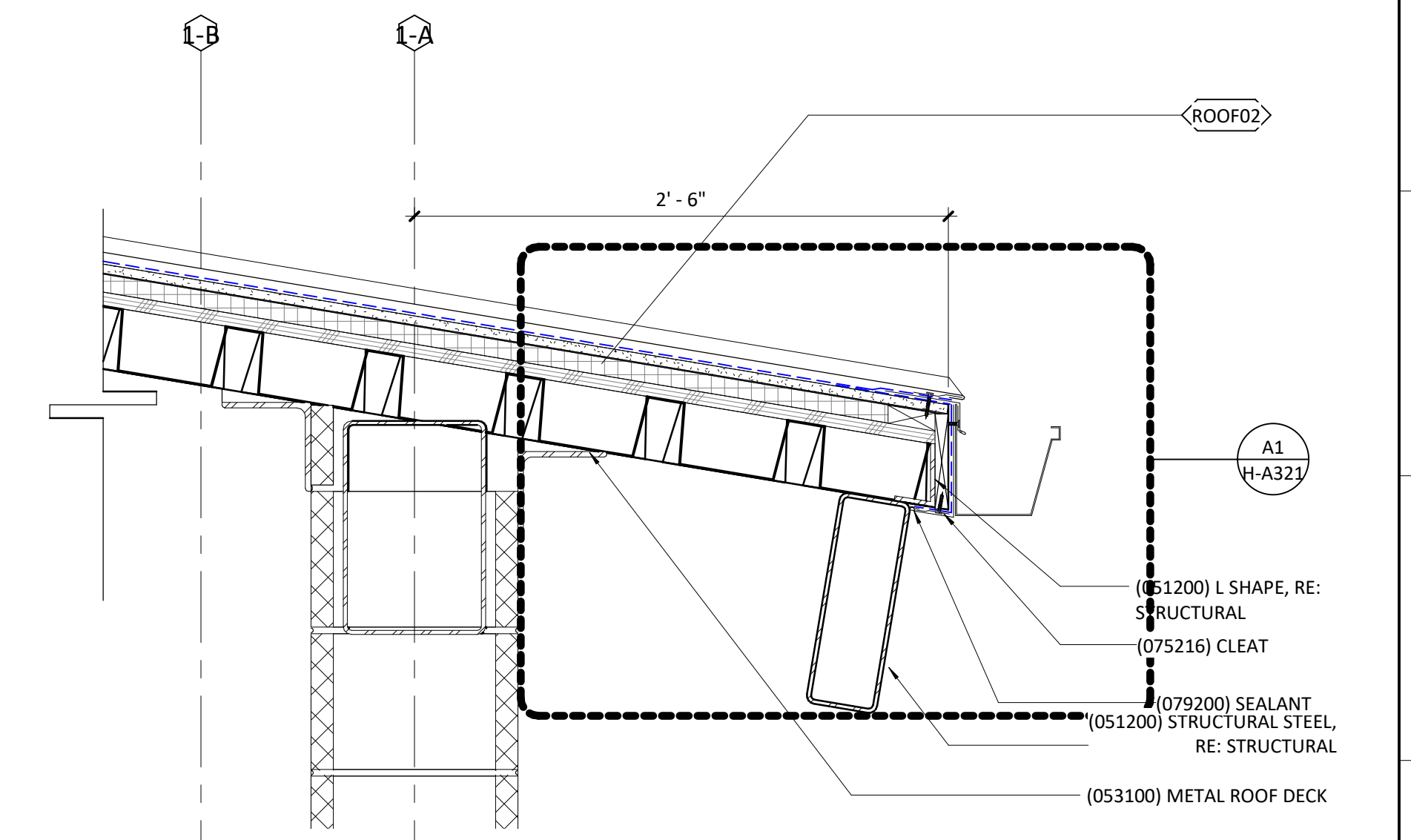
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| Number | DESCRIPTION | DATE |



Section Detail - Roof @ Press Box **A12**
1 1/2" = 1'-0"



Section Detail - East Roof Edge @ Stair Tower **A6**
1 1/2" = 1'-0"



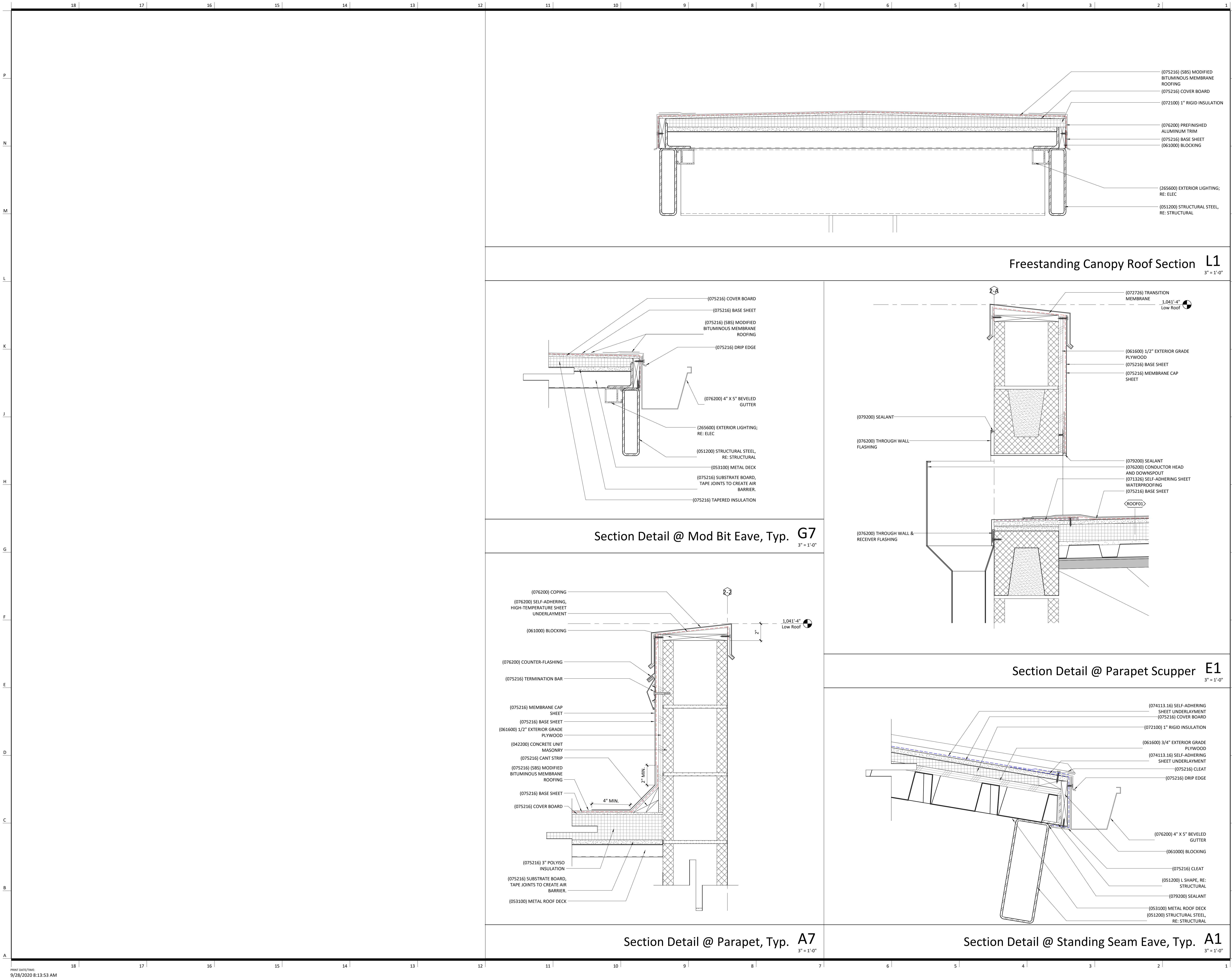
Section Detail - West Roof Edge @ Stair Tower **A1**
1 1/2" = 1'-0"

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details - Roof

H-A320

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Lee's Summit R7 District
Athletics Facilities

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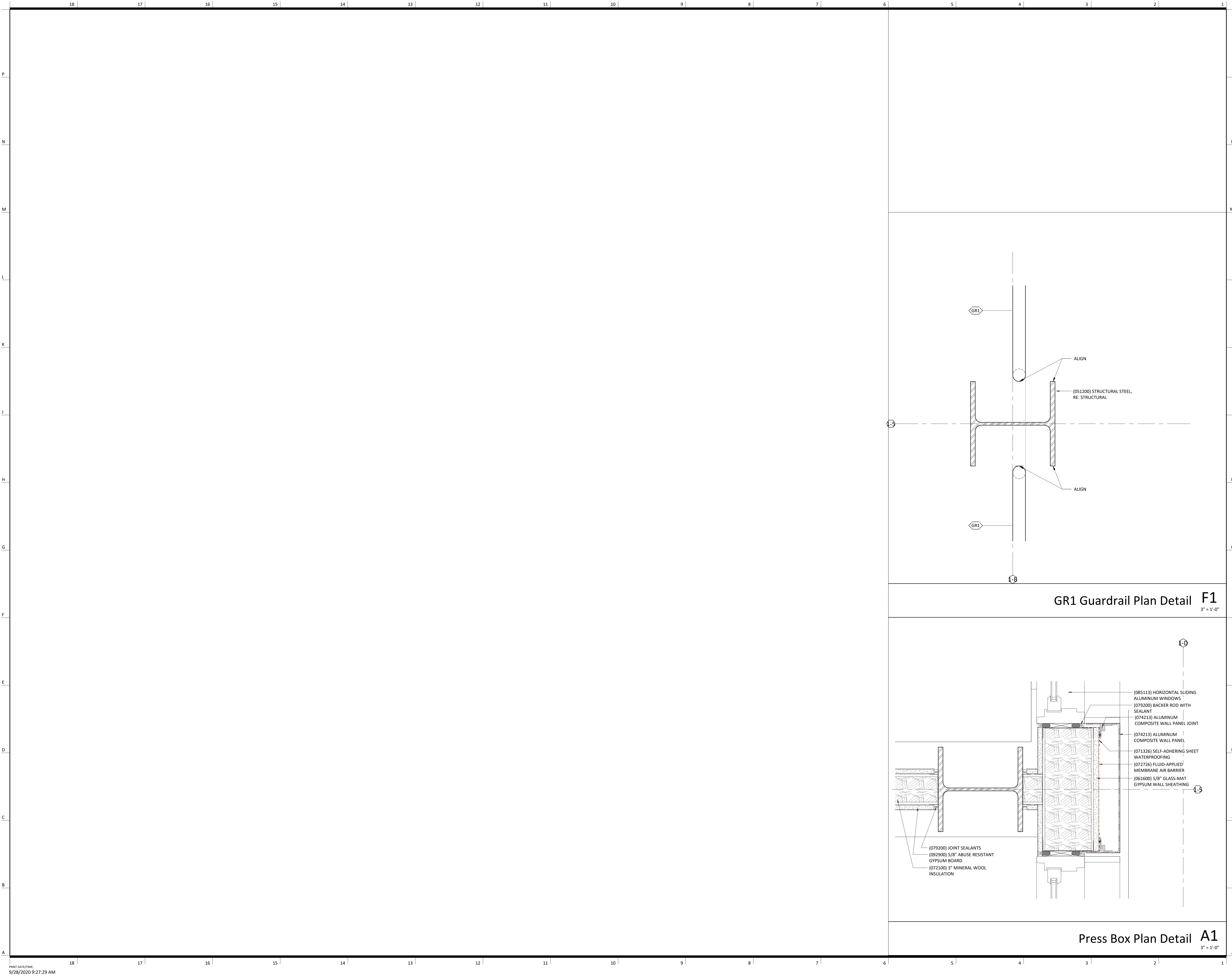
| REVISIONS | | |
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| Number | DESCRIPTION | DATE |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Section Details
- Roof

H-A321

BID SET



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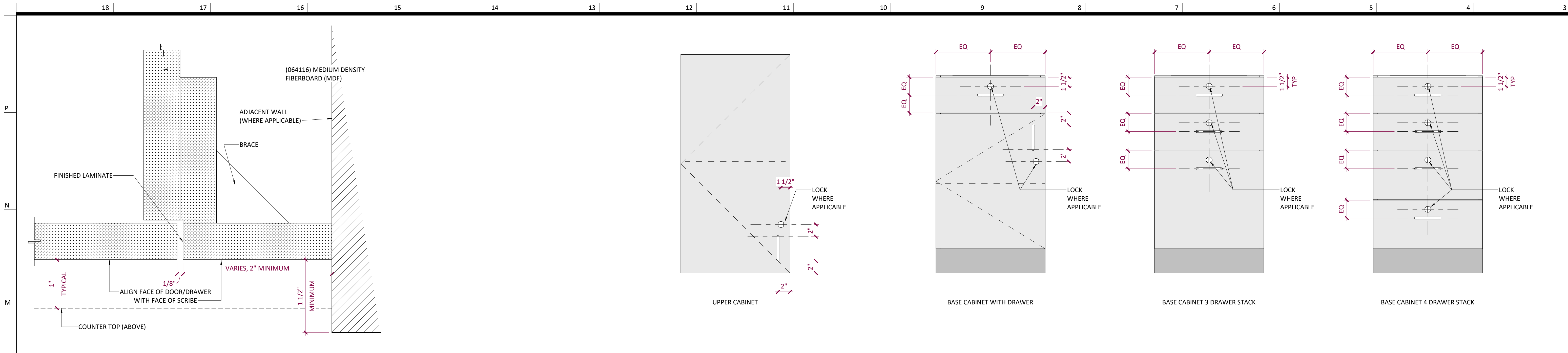
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DATE: September 28, 2020

Exterior Plan Details

H-A330

BID SET



Plan Detail - Typical Scribe **L15**
12" = 1'-0"

Standard Lock and Pull Locations **L3**
1 1/2" = 1'-0"

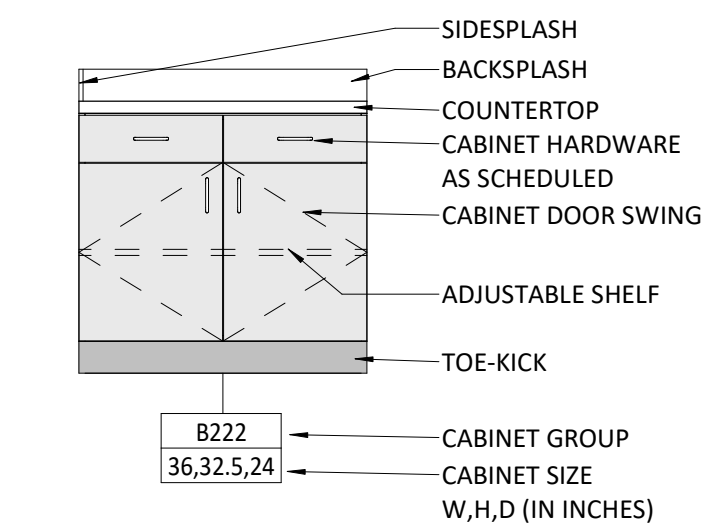
General Notes (Casework Standards):

- ALL CASEWORK IS TO BE CONSTRUCTED TO MEET OR EXCEED ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- PROVIDE RUBBER BASE AT ALL CABINET BASES, UNLESS NOTED OTHERWISE.
- REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR SPECIFIC MATERIAL LOCATIONS.
- PROVIDE MOISTURE RESISTANT PLYWOOD AT COUNTERTOPS WITH SINKS.
- SINKS SHOWN ON THESE DRAWINGS INDICATE LOCATIONS ONLY AND MAY NOTE REFLECT ACTUAL SIZES OR TYPES.
- COORDINATE LOCATIONS OF ALL EQUIPMENT AND CONFIRM PROPER CLEARANCES. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- CENTER ALL SINKS IN THE ASSOCIATED CASEWORK, UNLESS NOTED OTHERWISE.
- PROVIDE SIDE SPLASH WHERE COUNTERTOP ABUTS WALL, OR AT COUNTERTOPS WITH DIFFERENT HEIGHTS ABUT.
- SEAL ALL JOINTS BETWEEN WORK SURFACES/CABINETS AND ADJOINING SURFACES.
- PROVIDE IN WALL BLOCKING AS REQUIRED FOR UPPER CABINETS.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- FIELD COORDINATE LOCATIONS OF GROMMETS IN COUNTERTOPS WITH OWNER/ARCHITECT.
- PROVIDE FINISHED CLOSURE PANELS AT EXPOSED END CONDITIONS.
- PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL.
- PROVIDE LOCKS AT ALL CABINET DOORS. FINAL LOCK COORDINATION WILL BE DONE BY OWNER/ARCHITECT DURING SHOP DRAWING PROCESS.
- ALL PENETRATIONS THROUGH CASEWORK SHALL BE SEALED OR COVERED WITH AN ESCUTCHEON.

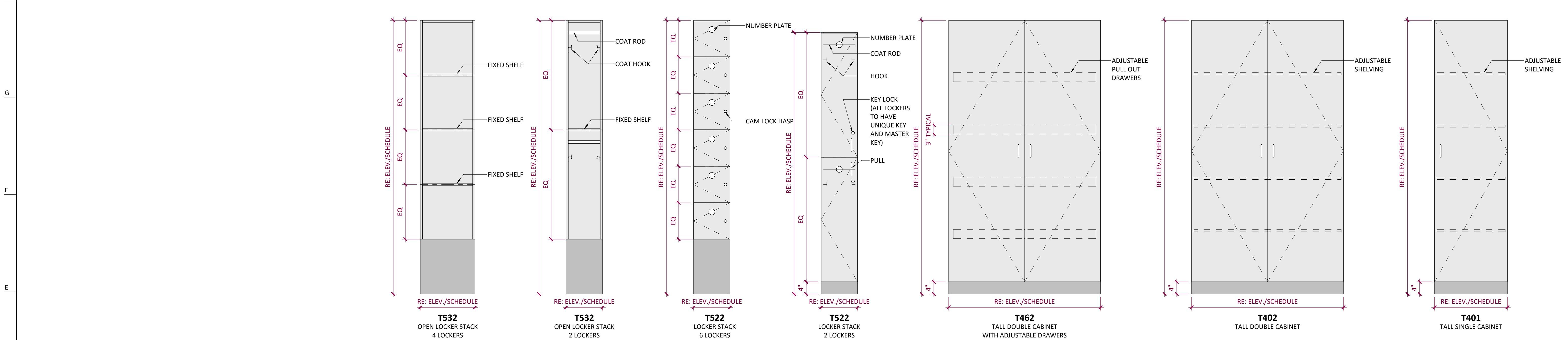
CASEWORK CABINET GROUPS:

- B BASE CABINET U UPPER CABINET
BS BASE SCRIBE US UPPER SCRIBE
T TALL CABINET

Casework Legend



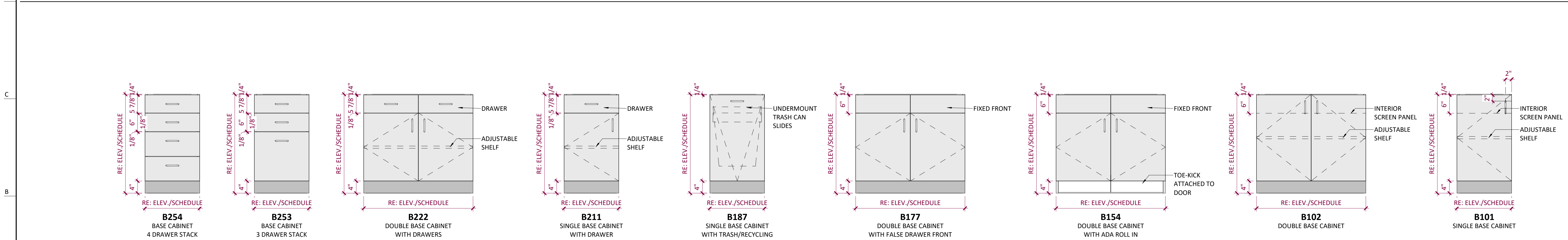
Cabinet Types - Upper **H3**
3/4" = 1'-0"



Casework Schedule

| Mark | Width | Height | Depth |
|------------------------|-------|---------|-------|
| Base-101-Single | | | |
| B101 | 18" | 32 1/2" | 30" |
| Base-102-Double | | | |
| B102 | | 32 1/2" | |
| Counter Top | | 36" | |
| Wall Bracket - In Wall | 2" | | |

Cabinet Types - Tall **D3**
3/4" = 1'-0"



Cabinet Types - Base **A3**
3/4" = 1'-0"

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Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

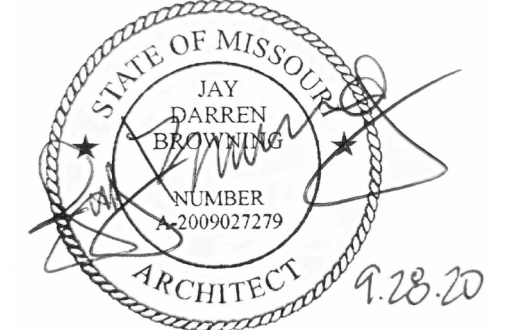
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| Number | DESCRIPTION | DATE |
|--------|-------------|------|
|--------|-------------|------|

PROJECT NO: 0119-0101
DATE: September 28, 2020

Casework Standards

H-A600

BID SET

| Finish Legend - Interiors | | | | |
|--|--------------------------------|---|---|-----------------|
| Mark | Manufacturer | Model | Comments | Latest Revision |
| 033000 CAST-IN-PLACE CONCRETE | | | | |
| CC01 | EXPOSED CAST IN PLACE CONCRETE | | CONCRETE WITH CURE AND SEALING COMPOUND | |
| CC02 | EXPOSED CAST IN PLACE CONCRETE | | CONCRETE WITH (071800) WITH TRAFFIC COATING | |
| 042000 CONCRETE MASONRY UNITS | | | | |
| H-CMU1 | TRENWYTH INDUSTRIES | MIDWEST SLATE - 12" x 8" x 16" | TRENDSTONE, SOLOMON MORTAR COLOR 97X | |
| H-CMU2 | TRENWYTH INDUSTRIES | MIDWEST SLATE - 8" x 8" x 16" | TRENDSTONE, SOLOMON MORTAR COLOR 97X | |
| 064023 INTERIOR ARCHITECTURAL WOODWORK | | | | |
| MEL01 | | WHITE MELAMINE | | |
| PL01 | FORMICA | FORMICA COMPACT - MATTE FINISH - TERRIL 2297 | | |
| 074113 STANDING SEAM METAL ROOF | | | | |
| H-MR01 | PAC-CLAD | SNAP-CLAD-CITYSCAPE | | |
| 074213.23 METAL COMPOSITE MATERIAL WALL PANELS | | | | |
| H-MWP1 | PAC-CLAD | PAC-3000 RS COMPOSITE WALL PANEL | MATCH ARCHITECT'S ZINC METAL SAMPLE, PROVIDE CUSTOM COLOR IF REQUIRED | |
| 088000 GLAZING | | | | |
| GL01 | | 1/4" CLEAR [Tempered] | | |
| IGU01 | | 1" INSULATED GLASS | | |
| 095113 ACOUSTICAL PANEL CEILINGS | | | | |
| ACT01 | USG | ASTRO CLIMAPLUS TREATED WITH AEGIS MICROBE SHIELD | COLOR: WHITE, SIZE: 24" x 48" x 1", EDGE: SQ | |
| ACT02 | USG | KITCHEN LAY-IN PANEL CLIMAPLUS PERFORMANCE | COLOR: WHITE, SIZE: 24" x 24" x 1", EDGE: SQ | |
| 095133 RESILIENT BASE AND ACCESSORIES | | | | |
| RBO1 | ROPPE | 123 CHARCOAL | 6" BASE | |
| 099123 INTERIOR PAINTING | | | | |
| H-PT01 | SHERWIN WILLIAMS | SNOWBOUND 7W7004 | | |
| H-PT02 | SHERWIN WILLIAMS | RGB - R197 G179 B105 | MATCH SCHOOL COLOR - VEGAS GOLD | |
| H-PT03 | SHERWIN WILLIAMS | PEPPERORN SW7674 | ALL EXPOSED STRUCTURE TO PAINTED | |
| H-PT04 | SHERWIN WILLIAMS | SUMMIT GRAY SW7669 | | |
| 123661 SOLID SURFACE COUNTER TOPS | | | | |
| SS01 | LG HIMACS | GHOST WHITE - ST907 | GENERAL COUNTERTOPS | |

| Room Number | Room Name | Finish | | | | Comments |
|-------------|--------------------------|----------|----------|----------|------------|---|
| | | Floor | Base | Wall | Ceiling | |
| H1-1 | Stair | CC01 | None | H-CMU1 | OTS/H-PT04 | RB01 on Elevator shaft wall |
| H1-101 | Vestibule | CC01 | RB01 | H-CMU1 | OTS/H-PT04 | |
| H1-102 | Elevator | N/A | None | N/A | N/A | |
| H1-106 | Corridor | CC02 | None | N/A | OTS/H-PT02 | Traffic Coating 071800 - Exposed structure to be painted H-PT03 |
| H1-201 | Vestibule | CC01 | None | H-CMU1 | OTS/H-PT04 | Exposed structure to be painted H-PT03 |
| H1-203 | Home Coaches | CC01 | RB01 | H-PT01 | ACT01 | |
| H1-204 | Command Center | CC01 | RB01 | H-PT01 | ACT01 | Exposed structure to be painted H-PT03 |
| H1-205 | Visitor Coaches | CC01 | RB01 | H-PT01 | ACT01 | Exposed structure to be painted H-PT03 |
| H1-301 | Vestibule | CC01 | None | H-CMU1 | OTS/H-PT02 | Traffic Coating 071800; Underside of roof deck to be painted H-PT02 - Exposed structural beams and columns to be painted H-PT03 |
| H1-303 | Video Deck | CC02 | None | N/A | OTS/H-PT02 | |
| H2-101 | Tennis Storage | CC01 | None | H-CMU1 | OTS/H-PT04 | |
| H2-102 | MEP/Custodian | CC01 | None | H-CMU1 | OTS/H-PT04 | ACT01 |
| H2-103 | Men's Restroom | CC01 | None | H-PT04 | | |
| H2-104 | Women's Restroom | CC01 | None | H-PT04 | ACT01 | ACT01 |
| H2-105 | Ticket Booth | CC01 | None | H-PT01 | | |
| H2-106 | Concessions | CC01 | None | H-PT04 | ACT02 | OTS/H-PT04 |
| H2-107 | Storage | CC01 | None | H-CMU1 | | |
| H2-108 | MEP | CC01 | None | H-CMU1 | OTS/H-PT04 | OTS/H-PT04 |
| H2-109 | Storage | CC01 | None | H-CMU1 | | |
| H3-101 | Visitor Ticket Booth | CC01 | None | H-PT01 | ACT01 | Existing Existing Existing Existing Existing Existing |
| H4-101 | Visitor Pressbox Level 1 | Existing | Existing | Existing | | |
| H4-201 | Visitor Pressbox Level 2 | Existing | Existing | Existing | | |
| H4-301 | Visitor Pressbox Level 3 | Existing | Existing | Existing | | |

NOTE: ALL PAINT POINTED IN WET AREAS TO BE SEMI-GLOSS EPOXY PAINT.

A
CCR01

NOTE: ALL PAINT LOCATED IN WET AREAS TO BE SEMI-GLOSS EPOXY PAINT

CCR01

General Notes (Finishes):

1. ALL FINISH MATERIALS MUST MEET THE FRAME
SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC
MATERIAL NOTATIONS.
3. REFERENCED FLOOR/WALL/CEILING TYPES ARE FOR
TOP FINISH LAYER DETAILS ONLY. REFER TO
ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR
FLOOR/WALL/CEILING ASSEMBLY DETAILS PER
LOCATION.
4. PAINT ALL EXPOSED DUCTWORK, CONDUIT,
ELECTRICAL AND EQUIPMENT, ETC. TO MATCH ADJACENT
SURFACE.
5. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL
TO REFER TO TYPICAL FLOORING TRANSITION DETAILS
FOR FINISHING TREATMENT.
6. FLOORING TRANSITIONS AT DOORS SHOULD BE
LOCATED UNDER THE DOOR IN THE CLOSED
POSITION, UNLESS NOTED OTHERWISE.
7. CARPETING WILL BE RESPONSIBLE FOR
PROTECTING FINISHED FLOORING SURFACES FROM
DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM
CARPET TO TILE TO OTHER MATERIAL, UNLESS
NOTED OTHERWISE.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING
HEIGHTS.
10. REFLECTED CEILING DEVICE COVERS ARE TO BE WHITE
UNLESS NOTED OTHERWISE.
11. CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR,
UNLESS NOTED OTHERWISE.
12. PAINT ALL METAL DOOR FRAMES TO BE PAINTED
TO MATCH ADJACENT WALL COLOR.

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Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
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Lee's Summit, MO 64063

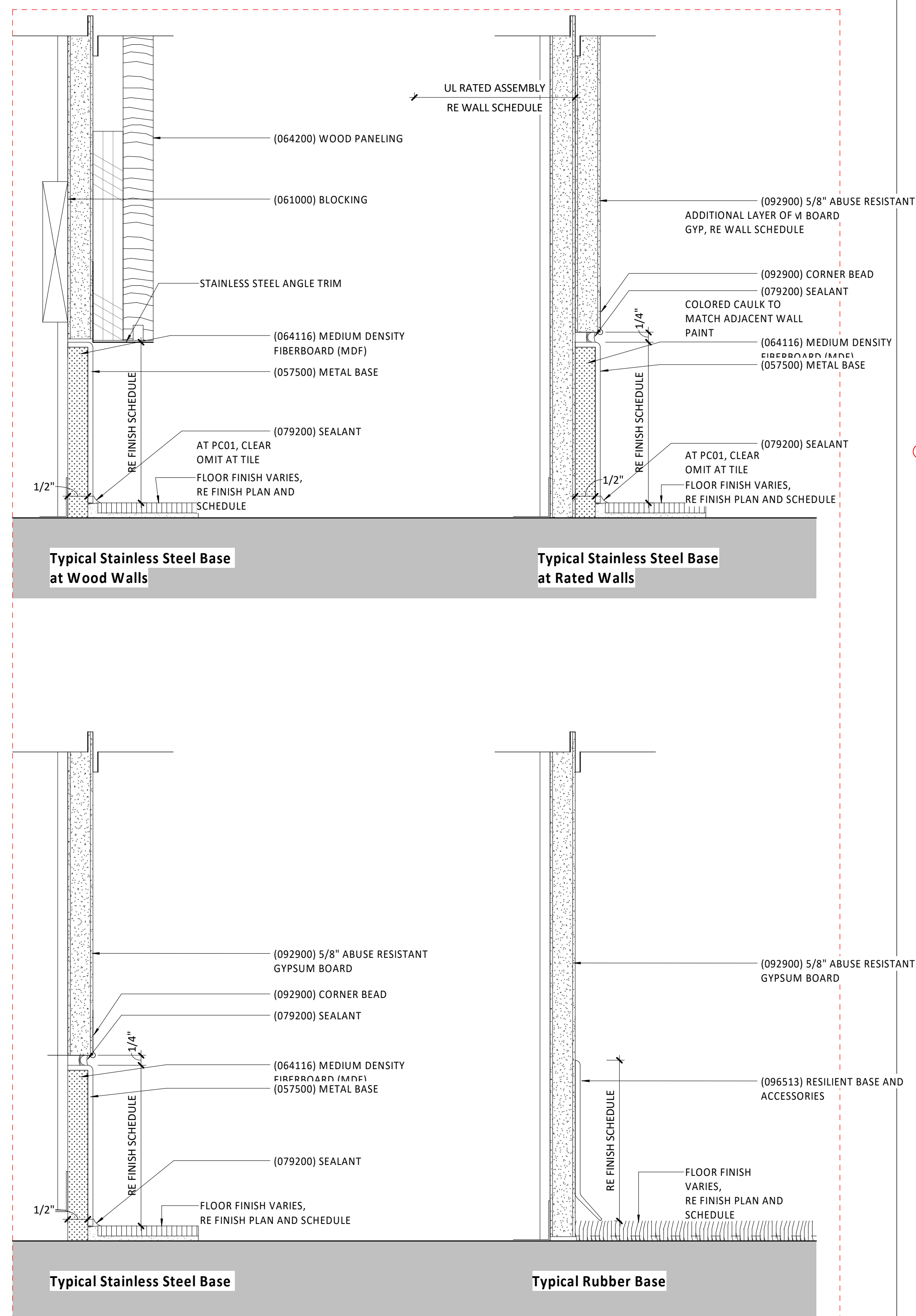
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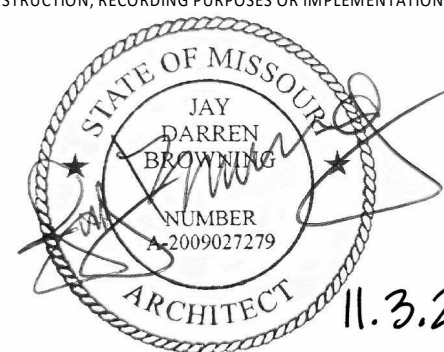


Wall Base Details 1

1

PRINT DATE/TIME:
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REVISIONS

| Number | DESCRIPTION | DATE |
|--------|-------------------------|---------|
| CC001 | Code Comment Response 1 | 10/28/2 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Finish Legend, Schedule & Details

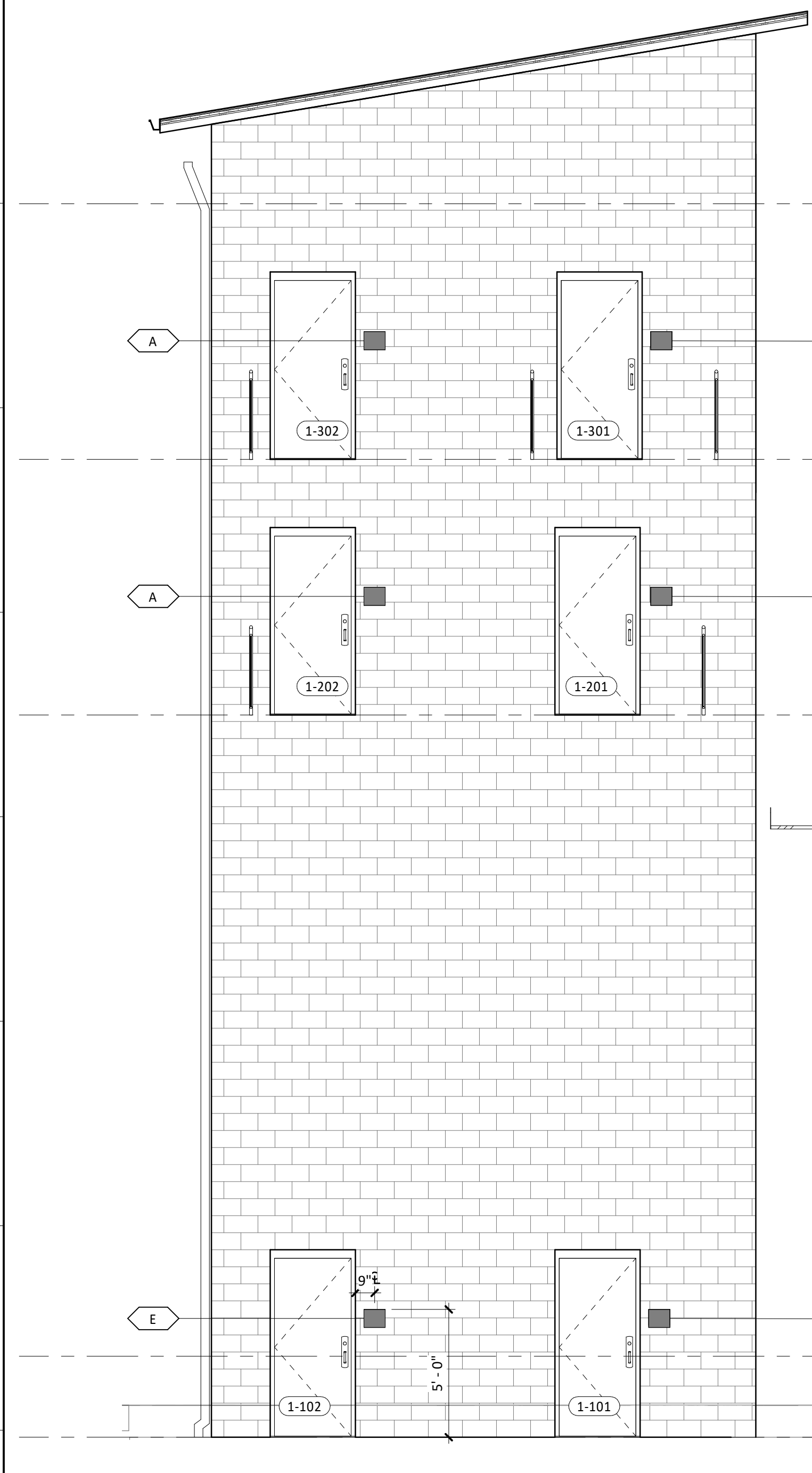
H-AF001

BID SET

| Signage Schedule | | | | |
|------------------------|------------------|-----------|--------------------|---|
| Room: Number | Room: Name | Type Mark | Type Comments | Signage Text |
| Home Press Box Level 1 | | | | |
| H1-1 | Stair | E | Exit Stair | Stair |
| H1-1 | Stair | A | Room ID (Basic) | Ground Level |
| H1-101 | Vestibule | A | Room ID (Basic) | Ground Level |
| Restrooms | | | | |
| H2-101 | Tennis Storage | A | Room ID (Basic) | Storage |
| H2-102 | MEP/Custodian | A | Room ID (Basic) | Custodian |
| H2-103 | Men's Restroom | R1 | Restroom - Men | Men's Restroom |
| H2-104 | Women's Restroom | R2 | Restroom - Women | Women's Restroom |
| Concessions | | | | |
| H2-105 | Ticket Booth | A | Room ID (Basic) | Ticket Booth |
| H2-106 | Concessions | A | Room ID (Basic) | Concessions |
| Home Press Box Level 2 | | | | |
| H1-106 | Corridor | F | In Case of Fire... | In Case of Fire Do Not Use Elevator, Use Stairs |
| H1-106 | Corridor | A | Room ID (Basic) | Stair |
| H1-106 | Corridor | A | Room ID (Basic) | Level 2 |
| H1-203 | Home Coaches | A | Room ID (Basic) | Home Coach |
| H1-204 | Command Center | A | Room ID (Basic) | Command Center |
| H1-205 | Visitor Coaches | A | Room ID (Basic) | Visitor Coach |
| Home Press Box Level 3 | | | | |
| H1-303 | Video Deck | F | In Case of Fire... | In Case of Fire Do Not Use Elevator, Use Stairs |
| H1-303 | Video Deck | A | Room ID (Basic) | Stair |
| H1-303 | Video Deck | A | Room ID (Basic) | Video Deck |
| H1-303 | Video Deck | A | Room ID (Basic) | Video Deck |

NOTE: Provide room identification signage to all areas listed in schedule. Not all signage locations are elevated on this sheet. See specification section 101419 for all pin-mounted dimensional letter signage.

| Signage Legend | | |
|----------------|--------------------|-------|
| Type Mark | Type Comments | Count |
| A | Room ID (Basic) | 16 |
| E | Exit Stair | 1 |
| F | In Case of Fire... | 3 |
| R1 | Restroom - Men | 1 |
| R2 | Restroom - Women | 2 |

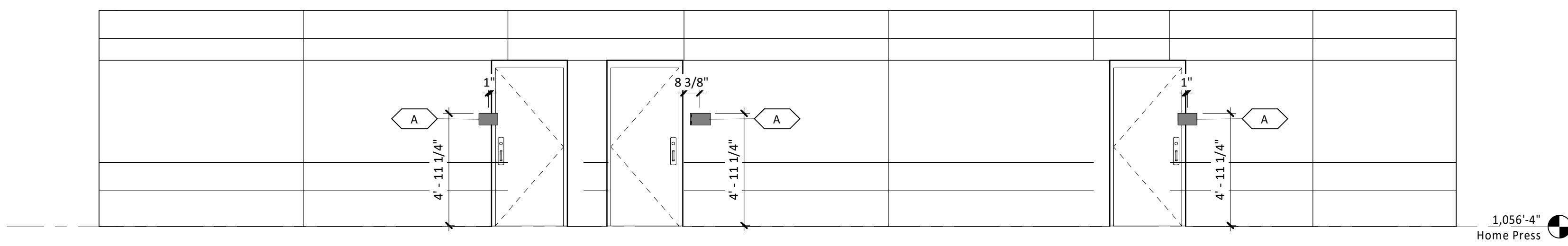


South Elevation - Home Press Box Core - Signage Details A14
1/4" = 1'-0"

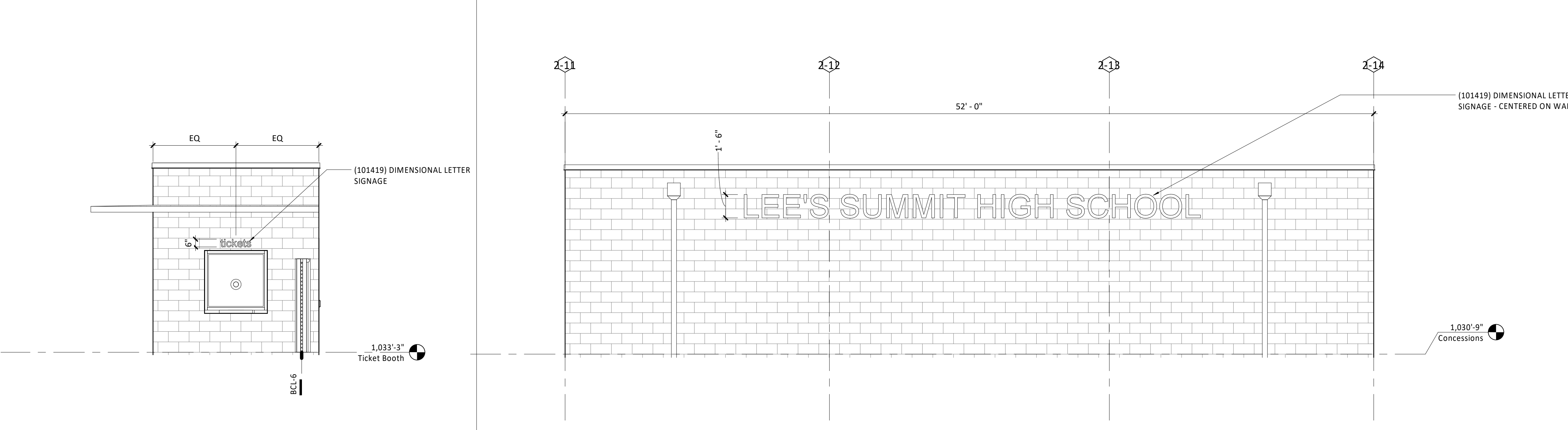
ADD02



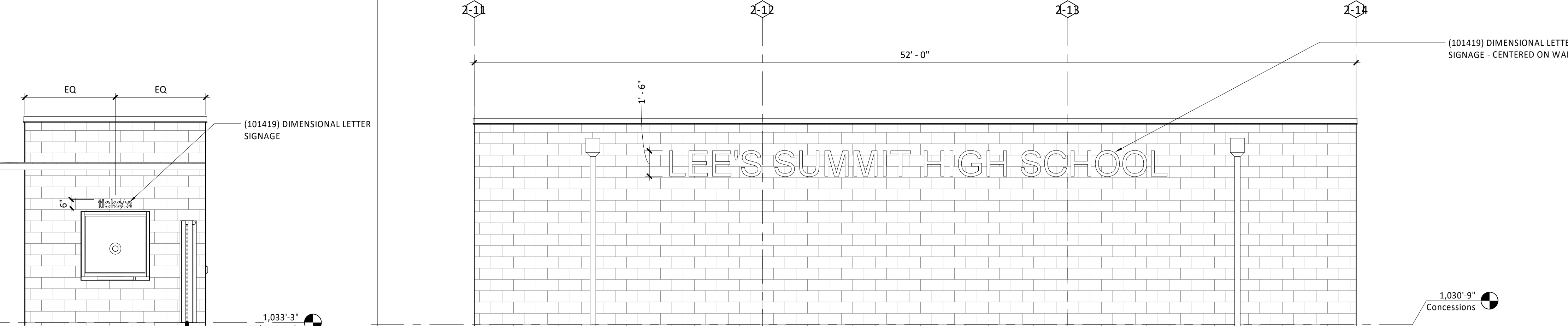
East Elevation - Home Press Box - Signage Details L1
1/8" = 1'-0"



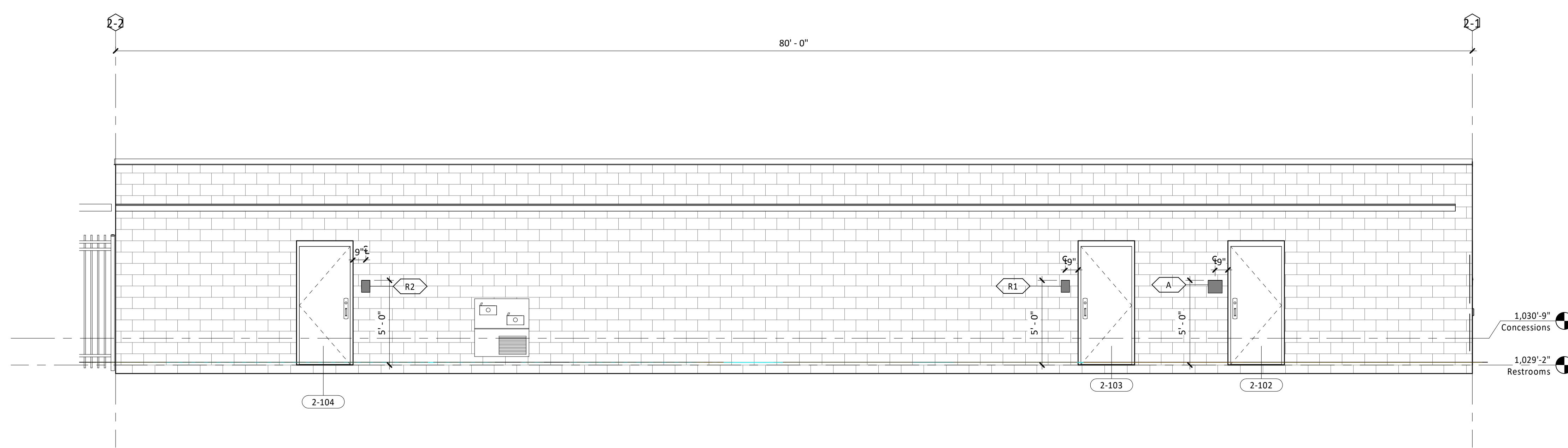
West Elevation Press Box - Signage Details J1
1/4" = 1'-0"



East Elev. Visitor Ticket Booth - Signage Details E10
1/4" = 1'-0"



SW Elevation - Ticket Booth & Concessions - Signage Details E1
1/4" = 1'-0"



East Elevation - Restrooms - Signage Details A1
1/4" = 1'-0"

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Lee's Summit R7 District
Athletics Facilities

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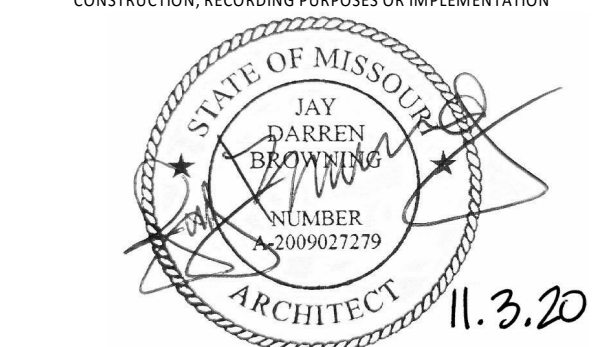
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| Number | DESCRIPTION | DATE |
| ADD02 | Addendum 02 | 10/26/20 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

Signage Types,
Schedule & Details

H-AF002

BID SET

KELLEY P. CARAMM

| | | | | | | | | | | | | | | | | | |
|--|----|----|----|---|----|----|----|--|---|---|---|---|---|---|---|---|---|
| 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| PLUMBING SYMBOLS | | | | | | | | | | | | | | | | | |
| THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. V2.02 | | | | | | | | | | | | | | | | | |
| STANDARD MOUNTING HEIGHTS | | | | PIPING SYMBOLS | | | | PIPING LINETYPES | | | | | | | | | |
| CLINIC SERVICE SINKS (RIM) | | | | OXYGEN OUTLET | | | | CW DOMESTIC COLD WATER (CW) | | | | | | | | | |
| HOSE BIBB (CENTERLINE) | | | | NITROUS OXIDE OUTLET | | | | SCW SOFTENED COLD WATER (SCW) | | | | | | | | | |
| ICE MAKER OUTLET BOX (CENTER OF BOX) | | | | MEDICAL AIR OUTLET | | | | HW DOMESTIC HOT WATER (HW) | | | | | | | | | |
| JANITOR'S SINK FAUCET FITTINGS (CENTERLINE) | | | | NITROGEN OUTLET | | | | HWR DOMESTIC HOT WATER RECIRC. (HWR) | | | | | | | | | |
| LAVATORY OR SINK | | | | MEDICAL VACUUM INLET | | | | 140' DOMESTIC HOT WATER (140') | | | | | | | | | |
| STANDARD HEIGHT (RIM) | | | | FLOOR SINK (FS), SIZE & TYPE | | | | T TRAP PRIMER LINE (T) | | | | | | | | | |
| ADA ACCESSIBLE (RIM) | | | | FLOOR DRAIN (FD), SIZE & TYPE | | | | S SOIL PIPING - ABOVE FLOOR (S) | | | | | | | | | |
| CHILD HEIGHT (RIM) | | | | ROOF DRAIN (RD), SIZE & TYPE | | | | S SOIL PIPING - BELOW FLOOR (S) | | | | | | | | | |
| NON FREEZE WALL HYDRANT (AFG TO CENTERLINE) | | | | BALL VALVE | | | | W WASTE PIPING - ABOVE FLOOR (W) | | | | | | | | | |
| SHOWER HEAD | | | | CONTROL VALVE | | | | W WASTE PIPING - BELOW FLOOR (W) | | | | | | | | | |
| MEN (CENTERLINE) | | | | SHUTOFF VALVE | | | | GW GREASE WASTE - ABOVE FLOOR (GW) | | | | | | | | | |
| WOMEN (CENTERLINE) | | | | CHECK VALVE | | | | GW GREASE WASTE - BELOW FLOOR (GW) | | | | | | | | | |
| SHOWER VALVE | | | | BALANCING VALVE WITH PRESSURE PORTS | | | | CGWV COMBINATION GREASE WASTE AND VENT (CGWV) | | | | | | | | | |
| STANDARD HEIGHT - MEN (CENTERLINE) | | | | WATER METER | | | | CWV COMBINATION WASTE AND VENT (CWV) | | | | | | | | | |
| STANDARD HEIGHT - WOMEN (CENTERLINE) | | | | STRAINER | | | | ST STORM DRAIN - ABOVE FLOOR (ST) | | | | | | | | | |
| ADA ACCESSIBLE (CENTERLINE) | | | | STRAINER WITH BLOWOFF | | | | ST STORM DRAIN - BELOW FLOOR (ST) | | | | | | | | | |
| SURGEON'S SCRUB-UP SINK (FRONT RIM) | | | | RELIEF/SAFETY VALVE | | | | OST OVERFLOW STORM DRAIN - ABOVE FLOOR (OST) | | | | | | | | | |
| TUB VALVE | | | | SOLENOID VALVE | | | | VBG VENT BELOW GRADE (VBG) | | | | | | | | | |
| STANDARD HEIGHT (CENTERLINE) | | | | PRESSURE REDUCING VALVE | | | | VBF VENT BELOW FLOOR (VBF) | | | | | | | | | |
| ADA ACCESSIBLE | | | | GAS PRESSURE REGULATOR | | | | ID INDIRECT DRAIN (ID) | | | | | | | | | |
| CENTER BETWEEN GRAB BAR AND TUB RIM | | | | THERMOSTATIC MIXING VALVE | | | | CDH CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH) | | | | | | | | | |
| URINAL | | | | PIPE ANCHOR | | | | CD CONDENSATE DRAIN (CD) | | | | | | | | | |
| STANDARD HEIGHT (RIM) | | | | EXPANSION JOINT | | | | ACD AUXILIARY CONDENSATE DRAIN (ACD) | | | | | | | | | |
| ADA ACCESSIBLE (RIM) | | | | BACKFLOW PREVENTER | | | | SPD SUMP OR SEWAGE PUMP DISCHARGE (SPD) | | | | | | | | | |
| CHILD HEIGHT (RIM) | | | | PRESSURE GAUGE | | | | G NATURAL GAS (G) | | | | | | | | | |
| WASHING MACHINE OUTLET BOX (RIM) | | | | THERMOMETER | | | | G NATURAL GAS ON ROOF (G) | | | | | | | | | |
| WATER CLOSET | | | | UNION | | | | MPG MEDIUM PRESSURE NATURAL GAS (MPG) | | | | | | | | | |
| STANDARD HEIGHT (RIM) | | | | FLANGE CONNECTION | | | | MPG MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG) | | | | | | | | | |
| ADA ACCESSIBLE (TOP OF SEAT) | | | | HOSE BIBB (HB) | | | | NPW NON-POTABLE WATER (NPW) | | | | | | | | | |
| CHILD HEIGHT (RIM) | | | | NON-FREEZING WALL HYDRANT (NW) | | | | LPG LIQUEFIED PETROLEUM GAS (LPG) | | | | | | | | | |
| WATER COOLER OR DRINKING FOUNTAIN | | | | MANUAL / AUTOMATIC AIR VENT OR VACUUM RELIEF VALVE | | | | WS WATER SERVICE (WS) | | | | | | | | | |
| STANDARD HEIGHT (SPOUT) | | | | PRESSURE / VACUUM SWITCH | | | | FP FIRE PROTECTION (FP) | | | | | | | | | |
| ADA ACCESSIBLE (SPOUT) | | | | CLEANOUT | | | | PD CONDENSATE PUMP DISCHARGE (PD) | | | | | | | | | |
| CHILD HEIGHT (SPOUT) | | | | CAP | | | | V VENT PIPING (V) | | | | | | | | | |
| INSTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY ARCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF. UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS. | | | | WALL CLEANOUT (WCO) | | | | AW ACID WASTE - ABOVE FLOOR (AW) | | | | | | | | | |
| ANNOTATION | | | | FLOOR CLEANOUT (FCO) | | | | AW ACID WASTE - BELOW FLOOR (AW) | | | | | | | | | |
| PLUMBING PLAN NOTE CALLOUT | | | | EXTERIOR CLEANOUT (ECO) | | | | AV ACID VENT (AV) | | | | | | | | | |
| PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES | | | | ELBOW UP | | | | GWS GRAY WATER (GWS) | | | | | | | | | |
| EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED) | | | | ELBOW DOWN | | | | CA COMPRESSED AIR (CA) | | | | | | | | | |
| MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE) | | | | TEE UP | | | | MA MEDICAL AIR (MA) | | | | | | | | | |
| CONNECTION POINT OF NEW WORK TO EXISTING | | | | TEE DOWN | | | | MV MEDICAL VACUUM (VE) | | | | | | | | | |
| DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER | | | | ELBOW UP WITH SHUT-OFF VALVE (SOV) | | | | HE HELIUM (HE) | | | | | | | | | |
| SECTION CUT DESIGNATION | | | | ELBOW DOWN WITH SHUT-OFF VALVE (SOV) | | | | IA INSTRUMENT AIR (IA) | | | | | | | | | |
| ABBREVIATIONS | | | | TEE UP WITH SHUT-OFF VALVE (SOV) | | | | IV INSTRUMENT VACUUM (IV) | | | | | | | | | |
| ADA AMERICANS WITH DISABILITIES ACT | | | | TEE DOWN WITH SHUT OFF VALVE (SOV) | | | | N2 NITROGEN (N2) | | | | | | | | | |
| AFF ABOVE FINISHED FLOOR | | | | WATER HAMMER ARRESTER (WHA) WITH PDI SIZES. (A, B, C, D, & E) | | | | N2O NITROUS OXIDE (N2O) | | | | | | | | | |
| AFG ABOVE FINISHED GRADE | | | | RECIRCULATION PUMP | | | | O2 OXYGEN (O2) | | | | | | | | | |
| AHU AIR HANDLING UNIT | | | | P-TRAP | | | | EV EVAC/MAGD (EV) | | | | | | | | | |
| AP ACCESS PANEL | | | | GAS COCK | | | | CO2 CARBON DIOXIDE (CO2) | | | | | | | | | |
| BAS BUILDING AUTOMATION SYSTEM | | | | TRAP PRIMER | | | | CA MEDICAL VACUUM EXHAUST (VE) | | | | | | | | | |
| BFF BELOW FINISHED FLOOR | | | | TRAP PRIMER WITH DISTRIBUTION UNIT | | | | DA DENTAL AIR (DA) | | | | | | | | | |
| BFG BELOW FINISHED GRADE | | | | EXISTING | | | | DV DENTAL VACUUM (DV) | | | | | | | | | |
| BOP BOTTOM OF PIPE | | | | DEMOLISH | | | | FW1 FILTERED WATER (FW1) | | | | | | | | | |
| BOS BOTTOM OF STRUCTURE | | | | NEW | | | | FW2 FILTERED WATER W/ SCALE INHIBITOR (FW2) | | | | | | | | | |
| BTU BRITISH THERMAL UNIT | | | | FUTURE | | | | DA REVERSE OSMOSIS (RO) | | | | | | | | | |
| CP CONDENSATE PUMP | | | | THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC. | | | | ROR REVERSE OSMOSIS REMINERALIZATION (ROR) | | | | | | | | | |
| CPVC CHLORINATED POLYVINYL CHLORIDE | | | | | | | | | | | | | | | | | |
| CU COPPER | | | | | | | | | | | | | | | | | |
| DI DUCTILE IRON | | | | | | | | | | | | | | | | | |
| DN DOWN | | | | | | | | | | | | | | | | | |
| DFU DRAINAGE FIXTURE UNIT | | | | | | | | | | | | | | | | | |
| DS DOWNSPOUT | | | | | | | | | | | | | | | | | |
| (E) EXISTING | | | | | | | | | | | | | | | | | |
| EMS ENERGY MANAGEMENT SYSTEM | | | | | | | | | | | | | | | | | |
| ETR EXISTING TO REMAIN | | | | | | | | | | | | | | | | | |
| EWC ELECTRIC WATER COOLER | | | | | | | | | | | | | | | | | |
| FD FLOOR DRAIN | | | | | | | | | | | | | | | | | |
| FFA FROM FLOOR ABOVE | | | | | | | | | | | | | | | | | |
| FFB FROM FLOOR BELOW | | | | | | | | | | | | | | | | | |
| FF FINISHED FLOOR | | | | | | | | | | | | | | | | | |
| FL FLOW LINE | | | | | | | | | | | | | | | | | |
| FLA FLOOR | | | | | | | | | | | | | | | | | |
| FLR FULL LOAD AMPS | | | | | | | | | | | | | | | | | |
| GPM GALLONS PER MINUTE | | | | | | | | | | | | | | | | | |
| HD HEAD, HUB DRAIN | | | | | | | | | | | | | | | | | |
| HZ HERTZ | | | | | | | | | | | | | | | | | |
| IE INVERT ELEVATION | | | | | | | | | | | | | | | | | |
| IN WC INCHES OF WATER COLUMN | | | | | | | | | | | | | | | | | |
| JB JUNCTION BOX | | | | | | | | | | | | | | | | | |
| J-BOX JUNCTION BOX | | | | | | | | | | | | | | | | | |
| KW KILOWATT | | | | | | | | | | | | | | | | | |
| MAU MAKE-UP AIR UNIT | | | | | | | | | | | | | | | | | |
| MAX MAXIMUM | | | | | | | | | | | | | | | | | |
| MBH 1000 BTU PER HOUR | | | | | | | | | | | | | | | | | |
| MH MANHOLE | | | | | | | | | | | | | | | | | |

GENERAL NOTES:

1. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.

2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK - REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.

4. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.

5. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.

6. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.

7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.

8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.

9. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.

10. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.

11. INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.

12. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.

13. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE OR UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.

14. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

15. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.

16. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.

17. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.

18. PAINT ALL EXPOSED WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.

19. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10" MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2" CLEARANCE FROM ALL OTHER EQUIPMENT.

20. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.

21. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.

22. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY. WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" FOR MORE INFORMATION.







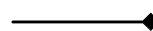

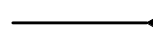


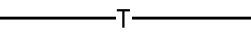

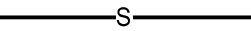

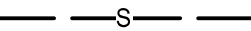
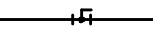
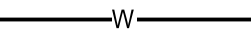

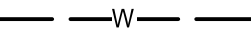
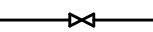





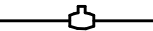

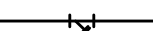

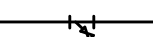

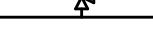



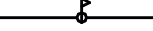

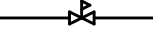
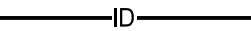
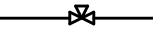

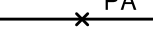





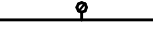
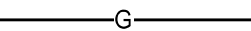

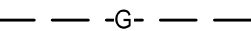
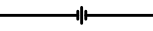

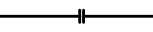

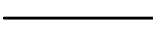

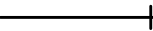








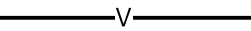



















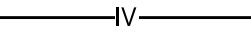

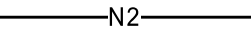

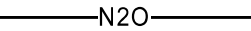
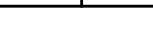
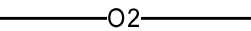
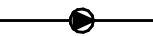



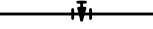

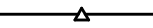







23. FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5 GPM UNLESS NOTED OTHERWISE.

24. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.

25. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.

26. PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS, REFER TO SPECIFICATIONS.

27. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR 1/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR 1/2" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

| PLUMBING SYMBOLS | | | V2.02 | | |
|---|--|---|---|--|--|
| THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. | | | | | |
| STANDARD MOUNTING HEIGHTS | | PIPING SYMBOLS | | PIPING LINETYPES | |
| CLINIC SERVICE SINKS (RIM) | 30" |  | OXYGEN OUTLET |  | DOMESTIC COLD WATER (CW) |
| HOSE BIBB (CENTERLINE) | 36" |  | NITROUS OXIDE OUTLET |  | SOFTENED COLD WATER (SCW) |
| ICE MAKER OUTLET BOX (CENTER OF BOX) | 24" |  | MEDICAL AIR OUTLET |  | DOMESTIC HOT WATER (HW) |
| JANITOR'S SINK FAUCET FITTINGS (CENTERLINE) | 42" |  | NITROGEN OUTLET |  | DOMESTIC HOT WATER RECIRC. (HWR) |
| LAVATORY OR SINK | |  | MEDICAL VACUUM INLET |  | DOMESTIC HOT WATER (140") |
| STANDARD HEIGHT (RIM) | 31" |  | FLOOR SINK (FS), SIZE & TYPE |  | TRAP PRIMER LINE (T) |
| ADA ACCESSIBLE (RIM) | 34" |  | FLOOR DRAIN (FD), SIZE & TYPE |  | SOIL PIPING - ABOVE FLOOR (S) |
| CHLD HEIGHT (RIM) | 24" |  | ROOF DRAIN (RD), SIZE & TYPE |  | SOIL PIPING - BELOW FLOOR (S) |
| NON FREEZE WALL HYDRANT (AFG TO CENTERLINE) | 18" |  | BALL VALVE |  | WASTE PIPING - ABOVE FLOOR (W) |
| SHOWER HEAD | |  | CONTROL VALVE |  | WASTE PIPING - BELOW FLOOR (W) |
| MEN (CENTERLINE) | 78" |  | SHUTOFF VALVE |  | GREASE WASTE - ABOVE FLOOR (GW) |
| WOMEN (CENTERLINE) | 72" |  | CHECK VALVE |  | GREASE WASTE - BELOW FLOOR (GW) |
| SHOWER VALVE | |  | BALANCING VALVE WITH PRESSURE PORTS |  | COMBINATION GREASE WASTE AND VENT (CGWV) |
| STANDARD HEIGHT - MEN (CENTERLINE) | 48" |  | WATER METER |  | COMBINATION WASTE AND VENT (CWV) |
| STANDARD HEIGHT - WOMEN (CENTERLINE) | 42" |  | STRAINER |  | STORM DRAIN - ABOVE FLOOR (ST) |
| ADA ACCESSIBLE (CENTERLINE) | 38" TO 48" |  | STRAINER WITH BLOWOFF |  | STORM DRAIN - BELOW FLOOR (ST) |
| SURGEON'S SCRUB-UP SINK (FRONT RIM) | 35" |  | RELIEF/SAFETY VALVE |  | OVERFLOW STORM DRAIN - ABOVE FLOOR (OST) |
| TUB VALVE | |  | SOLENOID VALVE |  | VENT BELOW GRADE (VBG) |
| STANDARD HEIGHT (CENTERLINE) | 32" |  | PRESSURE REDUCING VALVE |  | VENT BELOW FLOOR (VBF) |
| ADA ACCESSIBLE | CENTER BETWEEN GRAB BAR AND TUB RIM |  | GAS PRESSURE REGULATOR |  | INDIRECT DRAIN (ID) |
| URINAL | |  | THERMOSTATIC MIXING VALVE |  | CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH) |
| STANDARD HEIGHT (RIM) | 24" |  | PIPE ANCHOR |  | CONDENSATE DRAIN (CD) |
| ADA ACCESSIBLE (RIM) | 17" |  | EXPANSION JOINT |  | AUXILIARY CONDENSATE DRAIN (ACD) |
| CHLD HEIGHT (RIM) | 14" |  | BACKFLOW PREVENTER |  | SUMP OR SEWAGE PUMP DISCHARGE (SPD) |
| WASHING MACHINE OUTLET BOX (RIM) | 42" |  | PRESSURE GAUGE |  | NATURAL GAS (G) |
| WATER CLOSET | |  | THERMOMETER |  | NATURAL GAS ON ROOF (G) |
| STANDARD HEIGHT (RIM) | 15" |  | UNION |  | MEDIUM PRESSURE NATURAL GAS (MPG) |
| ADA ACCESSIBLE (TOP OF SEAT) | 17" TO 19" |  | FLANGE CONNECTION |  | MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG) |
| CHLD HEIGHT (RIM) | 10" |  | HOSE BIBB (HB) |  | NON-POTABLE WATER (NPW) |
| WATER COOLER OR DRINKING FOUNTAIN | |  | NON-FREEZING WALL HYDRANT (NW) |  | LIQUEFIED PETROLEUM GAS (LPG) |
| STANDARD HEIGHT (SPOUT) | 41" |  | MANUAL / AUTOMATIC AIR VENT OR VACUUM RELIEF VALVE |  | WATER SERVICE (WS) |
| ADA ACCESSIBLE (SPOUT) | 36" |  | PRESSURE / VACUUM SWITCH |  | FIRE PROTECTION (FP) |
| CHLD HEIGHT (SPOUT) | 30" |  | CLEANOUT |  | CONDENSATE PUMP DISCHARGE (PD) |
| INSTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY ARCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF. UNO, ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS. | |  | CAP |  | VENT PIPING (V) |
| ANNOTATION | |  | WALL CLEANOUT (WCO) |  | ACID WASTE - ABOVE FLOOR (AW) |
| ① | PLUMBING PLAN NOTE CALLOUT |  | FLOOR CLEANOUT (FCO) |  | ACID WASTE - BELOW FLOOR (AW) |
| 1 | PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES |  | EXTERIOR CLEANOUT (ECO) |  | ACID VENT (AV) |
| 1 | EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED) |  | ELBOW UP |  | GRAY WATER (GWS) |
| CU 1 | MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE) |  | ELBOW DOWN |  | COMPRESSED AIR (CA) |
| 1 | CONNECTION POINT OF NEW WORK TO EXISTING |  | TEE UP |  | MEDICAL AIR (MA) |
| 1 P1 | DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER |  | TEE DOWN |  | MEDICAL VACUUM (VE) |
| 1 P1 | SECTION CUT DESIGNATION |  | ELBOW UP WITH SHUT-OFF VALVE (SOV) |  | HELIUM (HE) |
| ABBREVIATIONS | |  | ELBOW DOWN WITH SHUT-OFF VALVE (SOV) |  | INSTRUMENT AIR (IA) |
| ADA | AMERICANS WITH DISABILITIES ACT |  | TEE UP WITH SHUT-OFF VALVE (SOV) |  | INSTRUMENT VACUUM (IV) |
| AFF | ABOVE FINISHED FLOOR |  | TEE DOWN WITH SHUT OFF VALVE (SOV) |  | NITROGEN (N2) |
| AFG | ABOVE FINISHED GRADE |  | WATER HAMMER ARRESTER (WHA) WITH PDI SIZES, (A, B, C, D, & E) |  | NITROUS OXIDE (N2O) |
| AHU | AIR HANDLING UNIT |  | RECIRCULATION PUMP |  | OXYGEN (O2) |
| AP | ACCESS PANEL |  | P-TRAP |  | EVAC/WAGD (EV) |
| BAS | BUILDING AUTOMATION SYSTEM |  | GAS COCK |  | CARBON DIOXIDE (CO2) |
| BFF | BELOW FINISHED FLOOR |  | TRAP PRIMER |  | MEDICAL AIR INTAKE (AI) |
| BFG | BELOW FINISHED GRADE |  | TRAP PRIMER WITH DISTRIBUTION UNIT |  | MEDICAL VACUUM EXHAUST (VE) |
| BOP | BOTTOM OF PIPE | | |  | DENTAL AIR (DA) |
| BOS | BOTTOM OF STRUCTURE | | |  | DENTAL VACUUM (DV) |
| BTU | BRITISH THERMAL UNIT | | |  | FILTERED WATER (FW1) |
| CP | CONDENSATE PUMP | | |  | FILTERED WATER W/ SCALE INHIBITOR (FW2) |
| CPVC | CHLORINATED POLYVINYL CHLORIDE | | |  | REVERSE OSMOSIS (RO) |
| CU | COPPER | | |  | REVERSE OSMOSIS REMINERALIZATION (ROR) |
| DI | DUCTILE IRON | | | | |
| DN | DOWN | | | | |
| DFU | DRAINAGE FIXTURE UNIT | | | | |
| DS | DOWNSPOUT | | | | |
| (E) | EXISTING | | | | |
| EMS | ENERGY MANAGEMENT SYSTEM | | | | |
| ETR | EXISTING TO REMAIN | | | | |
| EWC | ELECTRIC WATER COOLER | | | | |
| FD | FLOOR DRAIN | | | | |
| FFA | FROM FLOOR ABOVE | | | | |
| FFB | FROM FLOOR BELOW | | | | |
| FF | FINISHED FLOOR | | | | |
| FL | FLOW LINE | | | | |
| FLA | FULL LOAD AMPS | | | | |
| FLR | FLOOR | | | | |
| GPM | GALLONS PER MINUTE | | | | |
| HD | HEAD, HUB DRAIN | | | | |
| HZ | HERTZ | | | | |
| IE | INVERT ELEVATION | | | | |
| IN WC | INCHES OF WATER COLUMN | | | | |
| JB | JUNCTION BOX | | | | |
| J-BOX | JUNCTION BOX | | | | |
| KW | KILOWATT | | | | |
| MAU | MAKE-UP AIR UNIT | | | | |
| MAX | MAXIMUM | | | | |
| MBH | 1000 BTU PER HOUR | | | | |
| MH | MANHOLE | | | | |
| MIN | MINIMUM | | | | |
| NIC | NORMALLY CLOSED | | | | |
| NIO | NORMALLY OPEN | | | | |
| NIC | NOT IN CONTRACT | | | | |
| ORD | OVERFLOW ROOF DRAIN | | | | |
| PDI | PLUMBING DRAINAGE INSTITUTE | | | | |
| PHØ | PHASE | | | | |
| PRV | PRESSURE REDUCING VALVE | | | | |
| PVC | POLYVINYL CHLORIDE | | | | |
| RCP | REINFORCED CONCRETE | | | | |
| RD | ROOF DRAIN | | | | |
| RPM | REVOLUTIONS PER MINUTE | | | | |
| RTU | ROOFTOP UNIT | | | | |
| SF | SQUARE FEET | | | | |
| SP | SUMP | | | | |
| SS | STAINLESS STEEL | | | | |
| SS | SANITARY SEWER, SOIL STACK | | | | |
| TDH | TOTAL DYNAMIC HEAD | | | | |
| TFA | TO FLOOR ABOVE | | | | |
| TFB | TO FLOOR BELOW | | | | |
| TYP | TYPICAL | | | | |
| UL | UNDERWRITERS LABORATORIES, INC. | | | | |
| UNO | UNLESS NOTED OTHERWISE | | | | |
| UPS | UNINTERRUPTIBLE POWER SUPPLY | | | | |
| VCP | VITRIFIED CLAY PIPE | | | | |
| VFD | VARIABLE FREQUENCY DRIVE | | | | |
| VS | VENT STACK | | | | |
| VTR | VENT THROUGH ROOF | | | | |
| W | WITH | | | | |
| W/O | WITHOUT | | | | |
| WC | WATER COLUMN | | | | |
| WS | WASTE STACK | | | | |
| WSFU | WATER SUPPLY FIXTURE UNIT | | | | |
| WVS | WASTE VENT STACK | | | | |
| LINETYPE LEGEND | | EXISTING | | NEW | |
| THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAME OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC. | | DEMOLISH | | FUTURE | |

GENERAL NOTES:

1. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS. REFER TO SPECIFICATIONS.
2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS. REFER TO SPECIFICATIONS.
4. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
5. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
6. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
9. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
10. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
11. INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.
12. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
13. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE OR UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
14. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
15. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
16. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
17. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
18. PAINT ALL EXPOSED WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
19. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10" MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2" CLEARANCE FROM ALL OTHER EQUIPMENT.
20. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
21. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.
22. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY. WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" FOR MORE INFORMATION.
23. FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5 GPM UNLESS NOTED OTHERWISE.
24. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
25. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
26. PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS, REFER TO SPECIFICATIONS.
27. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR 1/2" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

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Sep 25 2020

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

PLUMBING GENERAL
NOTES AND LEGEND

H-P000

BID SET

Lee's Summit R7 District
Athletics Facilities

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Nov 6 2020

REVISIONS

| NUMBER | DESCRIPTION | DATE |
|--------|-------------|------------|
| 1 | Addendum 3 | 10.23.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME PRESS BOX -
PLUMBING PLANS

H-P111

BID SET

PLUMBING PLAN NOTES:

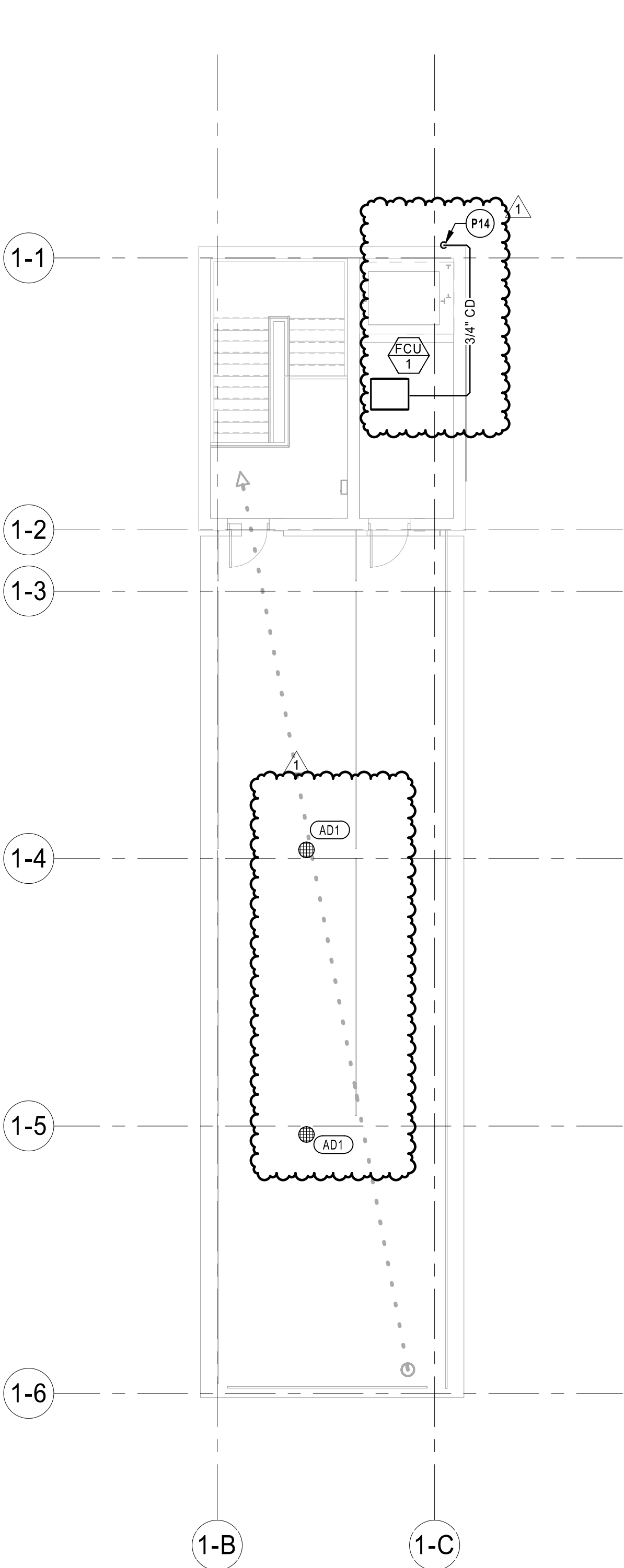
P8 ELEVATOR SUMP PUMP PIPING SHALL DISCHARGE TO GRADE.

P14 3/4" CONDENSATE DRAIN TFB.

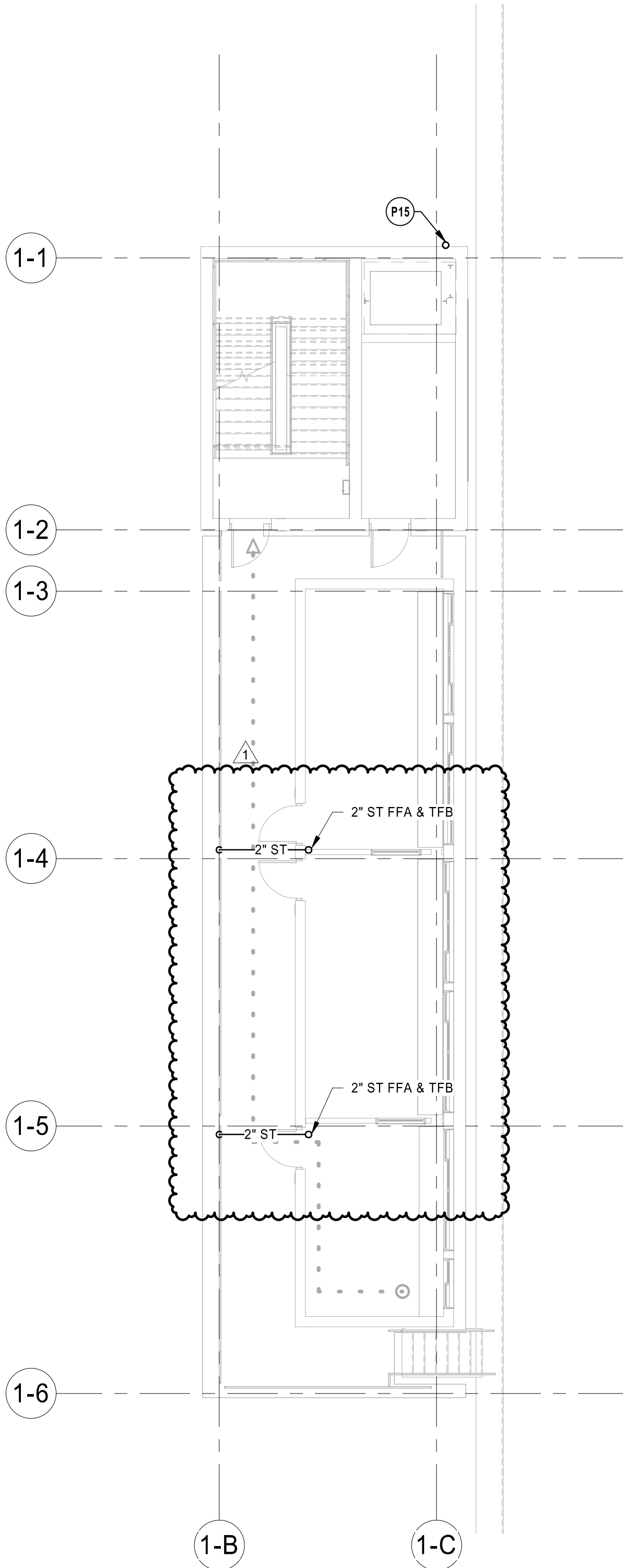
P15 3/4" CONDENSATE DRAIN FFA AND TFB.

P16 3/4" CONDENSATE DRAIN FFA.

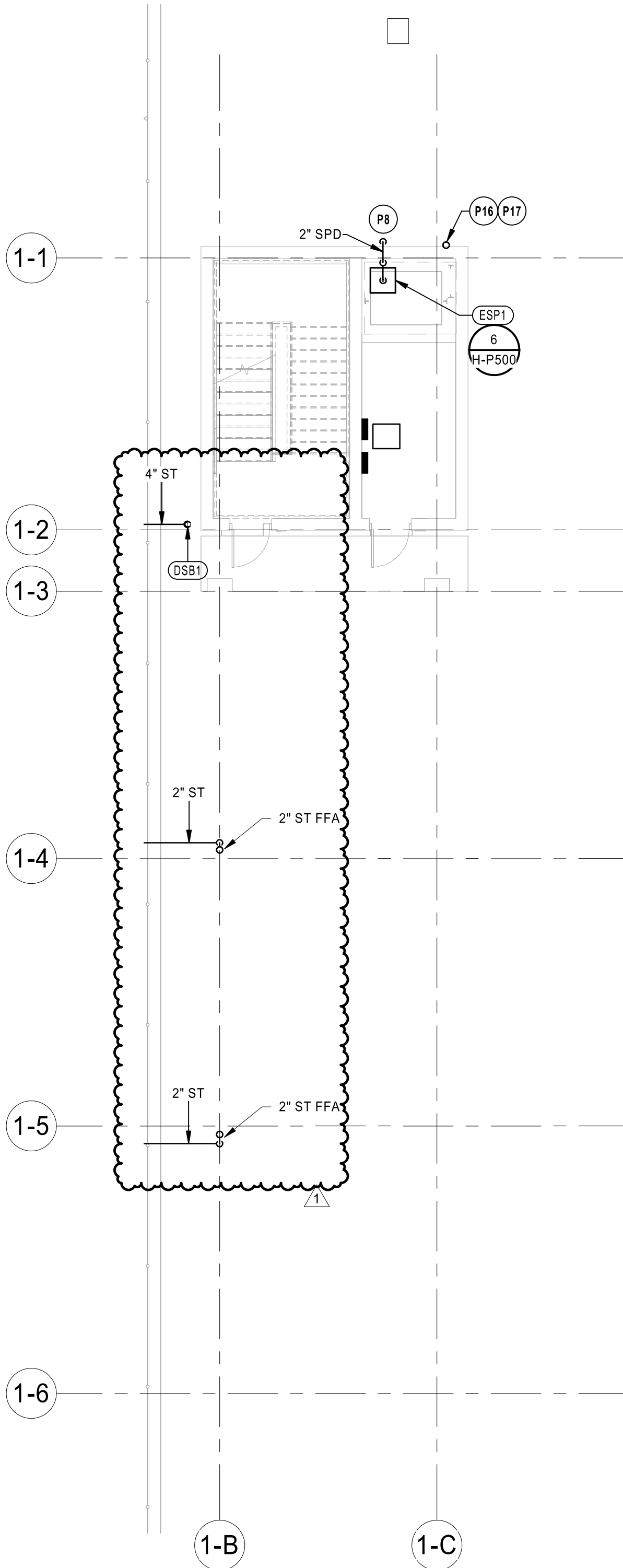
P17 3/4" CONDENSATE DRAIN SHALL DISCHARGE TO GRADE.



3 HOME PRESS BOX - LEVEL 3 PLUMBING PLAN
1/8" = 1'-0"



2 HOME PRESS BOX - LEVEL 2 PLUMBING PLAN
1/8" = 1'-0"



1 HOME PRESS BOX - PLUMBING PLAN
1/8" = 1'-0"

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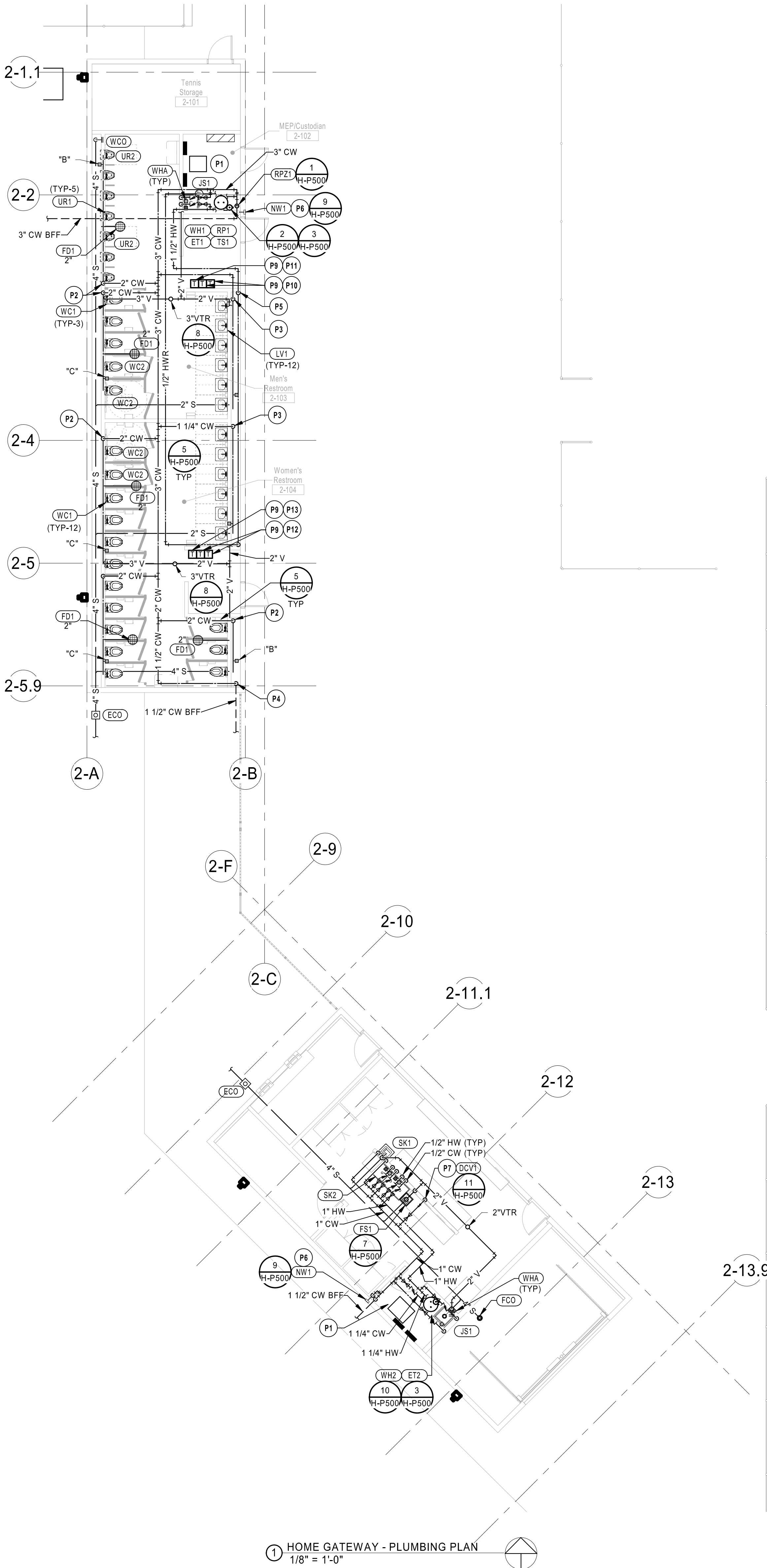
HOME GATEWAY -
PLUMBING PLAN

H-P121

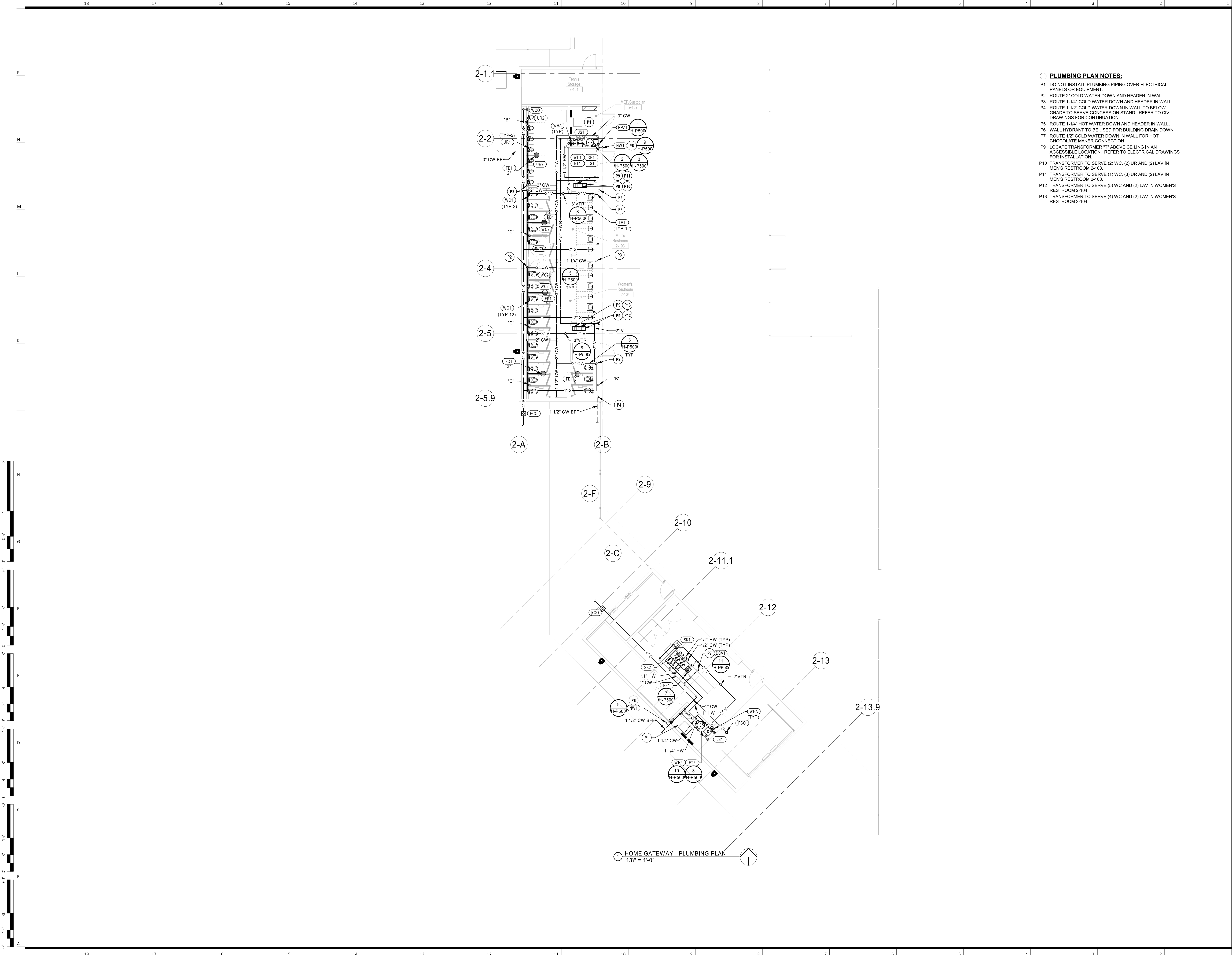
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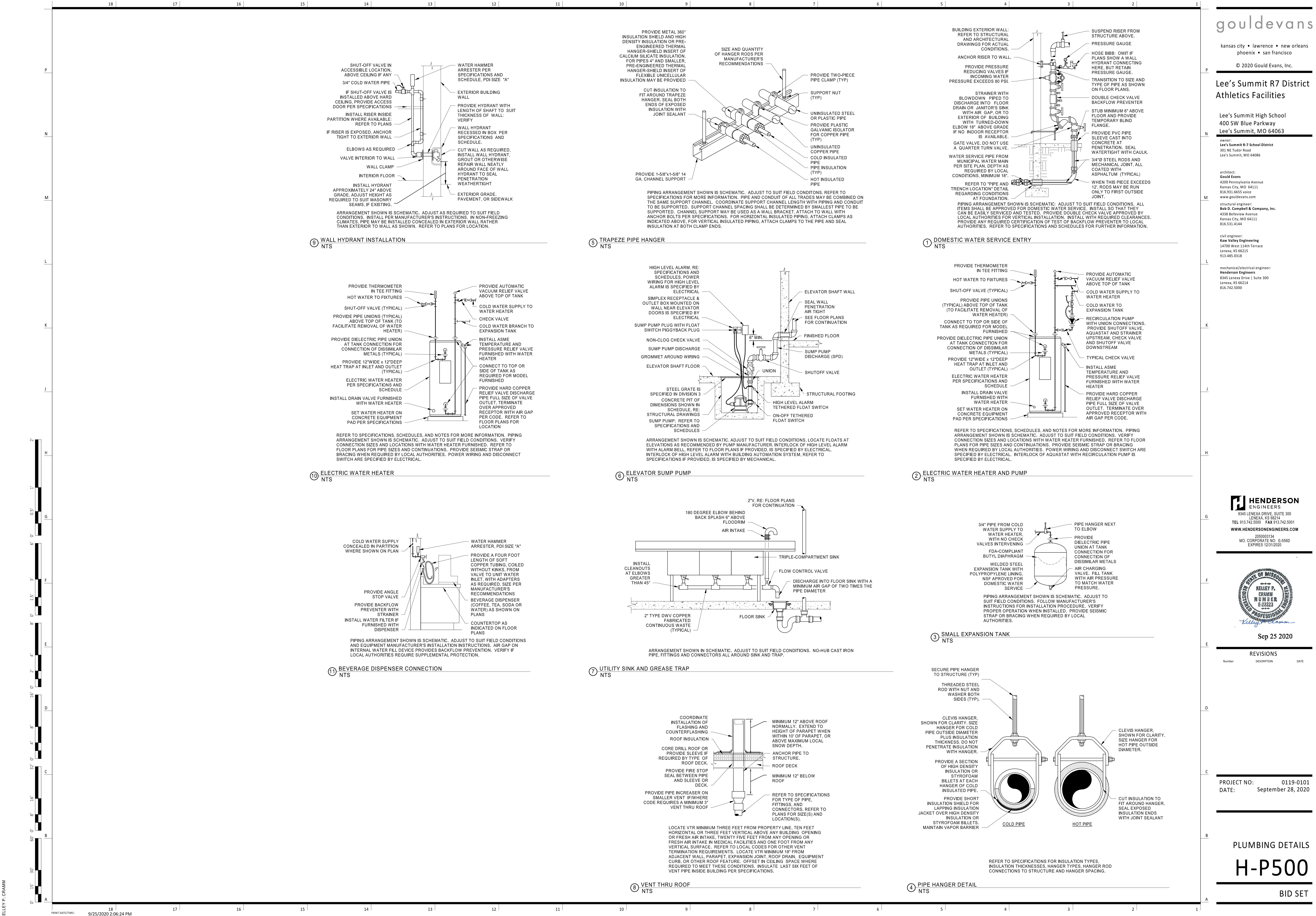
PLUMBING PLAN NOTES:

- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.
P2 ROUTE 2" COLD WATER DOWN AND HEADER IN WALL.
P3 ROUTE 1-1/4" COLD WATER DOWN AND HEADER IN WALL.
P4 ROUTE 1-1/2" COLD WATER DOWN IN WALL TO BELOW GRADE TO SERVE CONCESSION STAND. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
P5 ROUTE 1-1/4" HOT WATER DOWN AND HEADER IN WALL.
P6 WALL HYDRANT TO BE USED FOR BUILDING DRAIN DOWN.
P7 ROUTE 1/2" COLD WATER DOWN IN WALL FOR HOT CHOCOLATE MAKER CONNECTION.
P9 LOCATE TRANSFORMER "T" ABOVE CEILING IN AN ACCESSIBLE LOCATION. REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION.
P10 TRANSFORMER TO SERVE (2) WC, (2) UR AND (2) LAV IN MEN'S RESTROOM 2-103.
P11 TRANSFORMER TO SERVE (1) WC, (3) UR AND (2) LAV IN MEN'S RESTROOM 2-103.
P12 TRANSFORMER TO SERVE (5) WC AND (2) LAV IN WOMEN'S RESTROOM 2-104.
P13 TRANSFORMER TO SERVE (4) WC AND (2) LAV IN WOMEN'S RESTROOM 2-104.



1 HOME GATEWAY - PLUMBING PLAN
1/8" = 1'-0"





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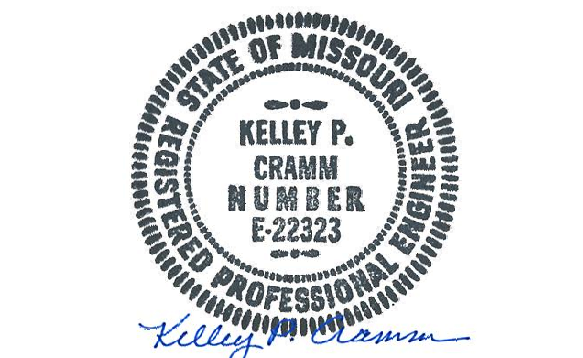
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REVISIONS

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PLUMBING DETAILS

H-P500

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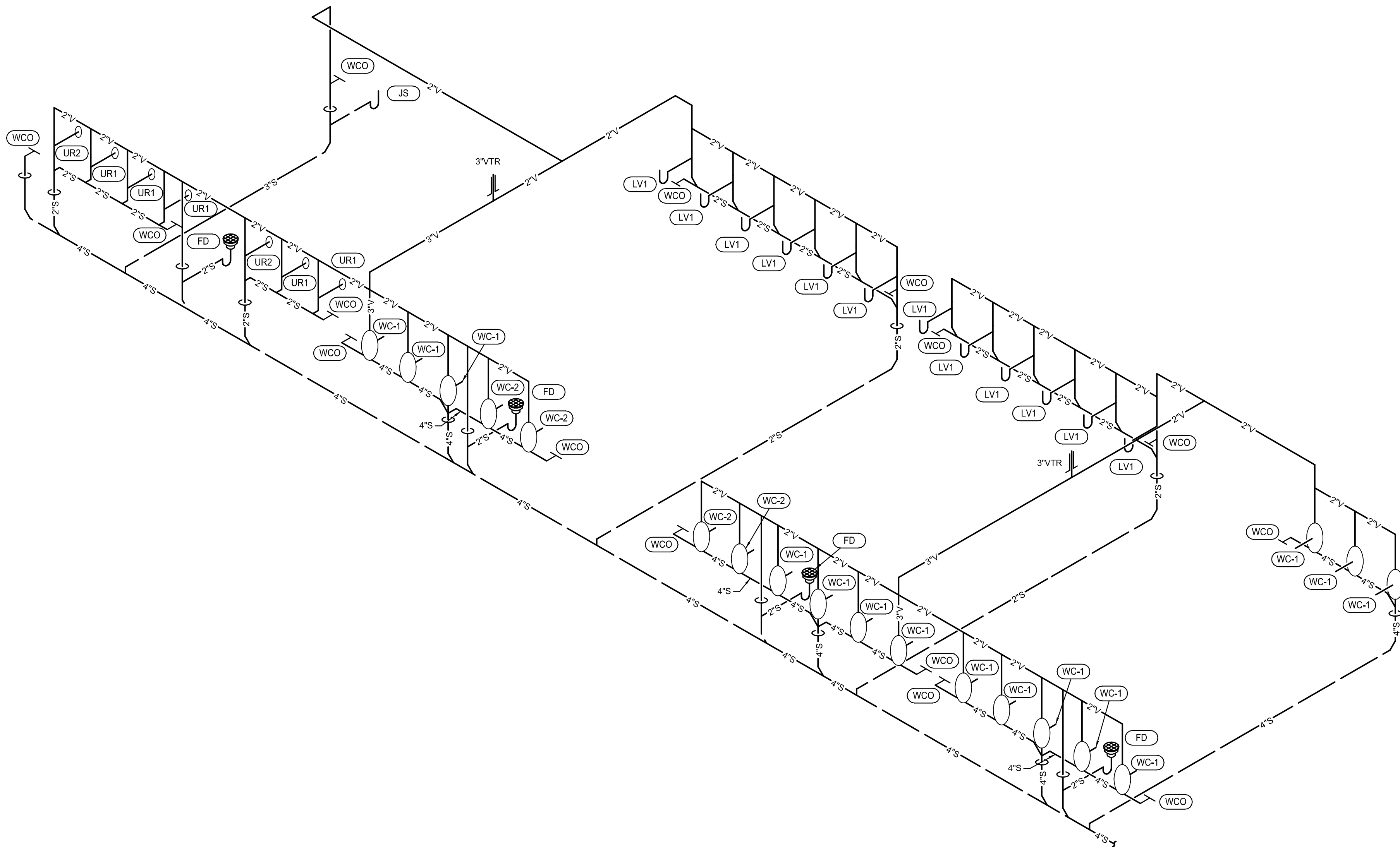


REVISIONS

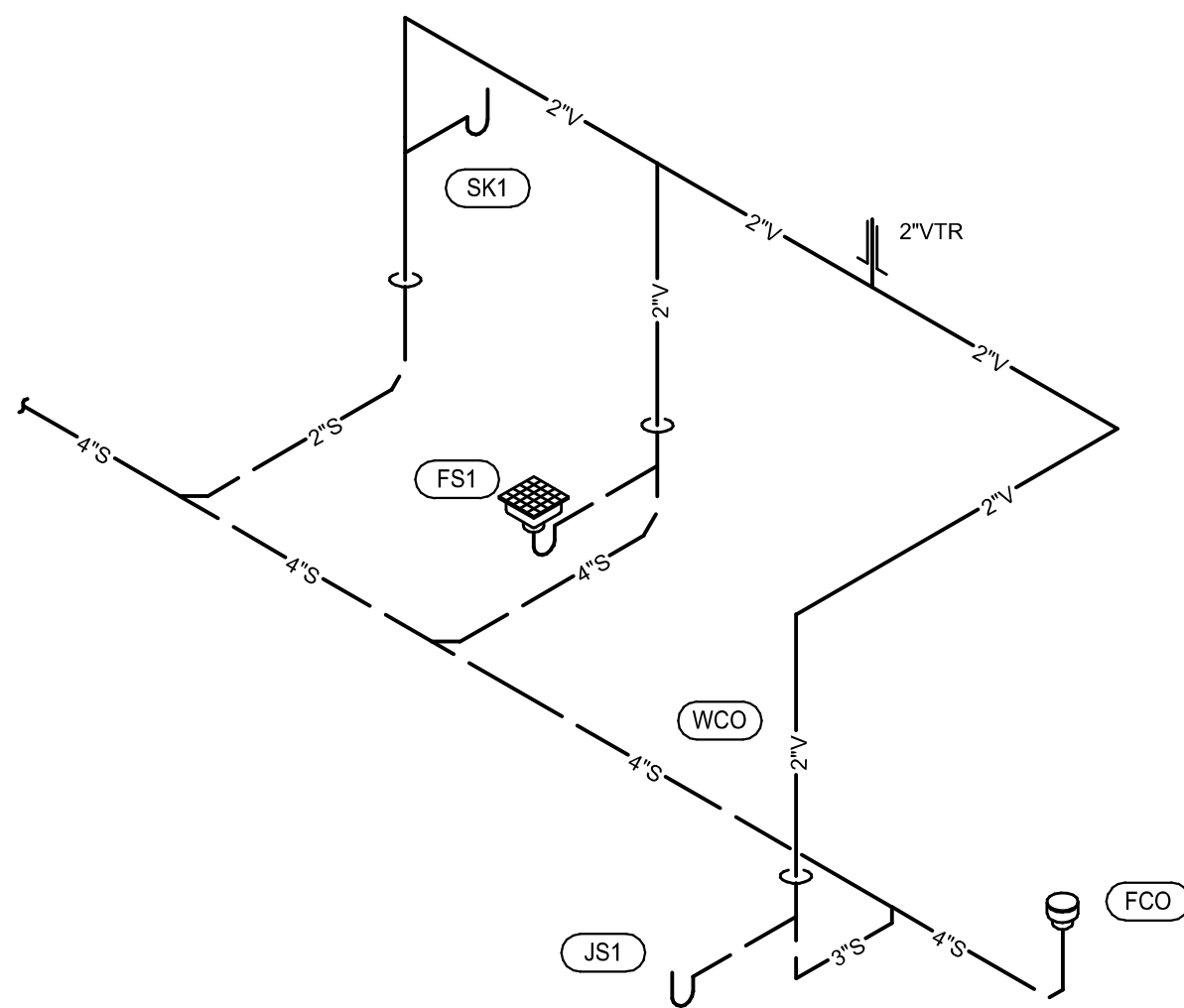
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PROJECT NO: 0119-0101
DATE: September 28, 2020

PLUMBING RISERS
H-P700
BID SET



1 PLUMBING RESTROOM WASTE AND VENT RISER
NTS



2 PLUMBING CONCESSION WASTE AND VENT RISER
NTS

MECHANICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHT

THERMOSTATS (USER ADJUSTABLE)(TOP OF DEVICE) 48"
CONTROLS (TOP OF DEVICE) 48"

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS ARE AFF OR AFG TO BOTTOM OF DEVICE UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ANNOTATION

- ① MECHANICAL PLAN NOTE CALLOUT
- CD 1 MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- 1 M1 DETAIL REFERENCE, UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- 1 M1 SECTION CUT DESIGNATION

ABBREVIATIONS

| | | | |
|------|-------------------------------------|---------|-------------------------------|
| A/C | AIR CONDITIONING | HWP | HEATING WATER PUMP |
| ACC | AIR COOLED CHILLER | IN WC | INCHES OF WATER COLUMN |
| ACCU | AIR COOLED CONDENSING UNIT | L | LEAVING AIR |
| AFC | ABOVE FINISHED CEILING | LAT | LEAVING AIR |
| AFB | ABOVE FINISHED FLOOR | LDB | LEAVING DRY BULB |
| AFG | ABOVE FINISHED GRADE | LP | LOW PRESSURE |
| AHJ | AUTHORITY HAVING JURISDICTION | LWB | LEAVING WET BULB |
| AHU | AIR HANDLING UNIT | LWT | LEAVING WATER TEMPERATURE |
| AI | ANALOG INPUT | MAU | MAKE-UP AIR UNIT |
| AO | ANALOG OUTPUT | MAX | MAXIMUM |
| AP | ACCESS PANEL | MBH | 1000 BTU PER HOUR |
| APD | AIR PRESSURE DROP | MD | MOTORIZED DAMPER |
| AWG | AMERICAN WIRE GAUGE | MFR | MANUFACTURER |
| B | BOILER | MIN | MINIMUM |
| BAS | BUILDING AUTOMATION SYSTEM | N/A | NOT APPLICABLE |
| BB | BACKBONE | N/C | NORMALLY CLOSED |
| BD | BACKDRAFT DAMPER | N/O | NORMALLY OPEN |
| BD | BLOWDOWN | NOM | NOMINAL |
| BFC | BELOW FINISHED CEILING | NO | NOISE CRITERIA |
| BFF | BELOW FINISHED FLOOR | NF | NON-FUSED |
| BFG | BELOW FINISHED GRADE | NIC | NOT IN CONTRACT |
| BFP | BOILER FEED PUMP | OA | OUTSIDE AIR |
| BHP | BRAKE HORSEPOWER | PCV | PRESSURE INDEP. CONTROL VALVE |
| BI | BINARY INPUT | PROVIDE | FURNISH AND INSTALL |
| BO | BINARY OUTPUT | QTY | QUANTITY |
| BOD | BOTTOM OF DUCT | RA | RETURN AIR |
| BOS | BOTTOM OF STRUCTURE | RD | ROOM CRITERIA |
| BTU | BRITISH THERMAL UNIT | RD | RETURN DUCT |
| CFM | CUBIC FEET PER MINUTE | REA | RELIEF AIR |
| CH | CHILLER | RF | RETURN FAN |
| CLG | COOLING | RFR | REFRIGERANT |
| CP | CONDENSATE PUMP | RH | RELATIVE HUMIDITY |
| CPT | TRANSFORMER | RI | ROOF HOOD |
| CRAC | COMPUTER ROOM AIR CONDITIONING UNIT | RPM | REVOLUTIONS PER MINUTE |
| CRU | COMPUTER ROOM UNIT | RTU | ROOFTOP UNIT |
| CT | COOLING TOWER | SA | SUPPLY AIR |
| CV | CONTROL VALVE | SCP | STEAM CONDENSATE PUMP |
| CWP | CONDENSER WATER PUMP | SD | SMOKE DUCT DETECTOR |
| CU | CONDENSING UNIT | SE | SUPPLY FAN |
| CHWP | CHILLED WATER PUMP | SH | SENSIBLE HEAT CAPACITY |
| DB | DECIBELS | SHW | SCOPE OF WORK |
| DBA | DECIBEL AVERAGE | SP | STATIC PRESSURE |
| DDC | DIRECT DIGITAL CONTROL | ST | STEAM TRAP |
| DI | DIGITAL INPUT | STM | STEAM |
| DISC | DISCONNECT | TBD | TO BE DETERMINED |
| DN | DOWN | TCC | TEMPERATURE CONTROLS |
| DS | DUCT SILENCER | TCF | TEMPERATURE CONTROL PANEL |
| DX | DIRECT EXPANSION | TF | TRANSFER FAN |
| (E) | EXISTING | TFA | TO FLOOR ABOVE |
| EA | EXHAUST AIR | TFB | TO FLOOR BELOW |
| EAT | ENTERING AIR | TH | TOTAL HEAT CAPACITY |
| ED | ENTERING DUCT | TSP | TOTAL STATIC PRESSURE |
| EDB | ENTERING DRY BULB | TT | TEMPERATURE TRANSMITTAL |
| EF | EXHAUST FAN | TYP | TYPICAL |
| EFF | EFFICIENCY | UF | UNDERFLOOR |
| EMS | ENERGY MANAGEMENT SYSTEM | UG | UNDERGROUND |
| ESP | EXTERNAL STATIC PRESSURE | UIS | UNDERSLAB |
| ETR | EXISTING TO REMAIN | UH | UNIT HEATER |
| EWB | ENTERING WET BULB | UNO | UNLESS NOTED OTHERWISE |
| EWT | ENTERING WATER TEMPERATURE | VAV | VARIABLE AIR VOLUME |
| FCU | FAN COIL UNIT | VEL | VELOCITY |
| FFA | FROM FLOOR ABOVE | VFD | VARIABLE FREQUENCY DRIVE |
| FFB | FROM FLOOR BELOW | VRF | VARIABLE REFRIGERANT FLOW |
| FF | FINISHED FLOOR | VRV | VARIABLE REFRIGERANT VOLUME |
| FH | FEET PER INCH | WI | WITH |
| FFM | FEET PER MINUTE | W/O | WITHOUT |
| GC | GENERAL CONTRACTOR | WB | WET BULB |
| GPM | GALLONS PER MINUTE | WC | WATER COLUMN |
| HGA | HAND-OFF-AUTOMATIC | WPD | WATER PRESSURE DROP |
| HTG | HEATING | XP | EXPLOSION PROOF |

ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. REFER TO DUCTWORK SPECIFICATIONS FOR DUCTWORK INSULATION AND LINER INFORMATION.

HVAC CONTROL DEVICES

| | |
|-----|--|
| ① | HUMIDISTAT |
| ① | THERMOSTAT |
| SP | STATIC PRESSURE SENSOR |
| TS | TEMPERATURE SENSOR |
| CO | CARBON MONOXIDE SENSOR |
| CO2 | CARBON DIOXIDE SENSOR |
| DP | DIFFERENTIAL PRESSURE SENSOR |
| FS | FLOW SWITCH |
| HS | HUMIDITY SENSOR |
| PS | PULL STATION |
| WT | REMOTE TESTING STATION WITH INDICATING LIGHT |
| SP | STATIC PRESSURE |
| TS | TEMPERATURE SENSOR |

PIPING SYMBOLS

| | |
|----|---------------------------------------|
| → | DIRECTION OF FLOW |
| ⊕ | CONTROL VALVE |
| ⊕ | THREE-WAY CONTROL VALVE |
| ⊕ | SHUTOFF VALVE |
| ⊕ | CHECK VALVE |
| ⊕ | BALANCING VALVE WITH PRESSURE PORTS |
| ⊕ | TRIPLE DUTY VALVE WITH PRESSURE PORTS |
| ⊕ | STRAINER |
| ⊕ | STRAINER WITH BLOWDOWN VALVE |
| ⊕ | RELIEF / SAFETY VALVE |
| ⊕ | SOLENOID VALVE |
| ⊕ | PRESSURE REDUCING VALVE |
| ⊕ | GAS PRESSURE REGULATOR |
| ⊕ | THERMOSTATIC MIXING VALVE |
| PA | PIPE ANCHOR |
| EJ | EXPANSION JOINT |
| — | PIPE GUIDE |
| — | PIPING SUPPORT |
| — | F & T TRAP |
| — | BUCKET TRAP |
| — | THERMOSTATIC TRAP |
| — | BACKFLOW PREVENTER |
| — | PRESSURE GAUGE |
| — | THERMOMETER |
| — | PRESSURE AND TEMPERATURE TEST PLUG |
| — | UNION |
| — | FLANGE CONNECTION |
| — | VACUUM RELIEF VALVE |
| — | AUTOMATIC AIR VENT |
| — | MANUAL AIR VENT |
| — | PRESSURE / VACUUM SWITCH |
| — | CLEANOUT |
| — | CAP |
| — | ELBOW UP |
| — | ELBOW DOWN |
| — | TEE UP |
| — | TEE DOWN |
| — | ELBOW UP WITH SHUT-OFF VALVE (SOV) |
| — | ELBOW DOWN WITH SHUT-OFF VALVE (SOV) |
| — | TEE UP WITH SHUT-OFF VALVE (SOV) |
| — | TEE DOWN WITH SHUT-OFF VALVE (SOV) |
| — | REDUCER |
| — | RECIRCULATION PUMP |
| — | P-TRAP |
| — | GAS COCK |
| — | TOP BEAM CLAMP |
| — | TRAPEZE HANGER |
| — | FLEXIBLE CONNECTION |

PIPING LINETYPES

| | |
|--------|---|
| —CD— | CONDENSATE DRAIN (CD) |
| —ACD— | AUXILIARY CONDENSATE DRAIN (ACD) |
| —NPW— | NON-POTABLE WATER (NPW) |
| —G— | NATURAL GAS (G) |
| —G— | NATURAL GAS ON ROOF (G) |
| —MPG— | MEDIUM PRESSURE NATURAL GAS (MPG) |
| —MPG— | MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG) |
| —FOS— | FUEL OIL SUPPLY (FOS) |
| —FOR— | FUEL OIL RETURN (FOR) |
| —FOV— | FUEL OIL VENT (FOV) |
| —LPG— | LIQUEFIED PETROLEUM GAS (LPG) |
| —BFW— | BOILER FEED WATER (BFW) |
| —HPS— | HIGH PRESSURE STEAM SUPPLY (HPS) |
| —HPC— | HIGH PRESSURE STEAM CONDENSATE (HPC) |
| —LPS— | LOW PRESSURE STEAM SUPPLY (LPS) |
| —LPC— | LOW PRESSURE STEAM CONDENSATE (LPC) |
| —PD— | CONDENSATE PUMP DISCHARGE (PD) |
| —HWS— | HEATING HOT WATER SUPPLY (HWS) |
| —HWR— | HEATING HOT WATER RETURN (HWR) |
| —CHWS— | CHILLED WATER SUPPLY (CHWS) |
| —CHWR— | CHILLED WATER RETURN (CHWR) |
| —HCS— | HOT / CHILLED WATER SUPPLY (HCS) |
| —HCR— | HOT / CHILLED WATER SUPPLY (HCR) |
| —CWS— | CONDENSER WATER SUPPLY (CWS) |
| —CWR— | CONDENSER WATER RETURN (CWR) |
| —HPWS— | HEAT PUMP WATER SUPPLY (HPWS) |
| —HPWR— | HEAT PUMP WATER RETURN (HPWR) |
| —RL— | REFRIGERANT LIQUID (RL) |
| —RD— | REFRIGERANT DISCHARGE (HOT GAS) (RD) |
| —RS— | REFRIGERANT SUCTION (RS) |
| —RDB— | REFRIGERANT DISCHARGE BYPASS (RDB) |
| —RV— | REFRIGERANT VENT (RV) |

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

| | |
|----------|--------|
| EXISTING | NEW |
| DEMOLISH | FUTURE |

GENERAL NEW NOTES:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
- DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
- PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.
- NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF INSTALLED AND DELIVERED DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION. DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
- INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
- OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
- COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
- PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK. PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION.
- DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
- LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

- BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
- REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS. INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

Sheet List - Mechanical

| Sheet Number | Sheet Name |
|----------------|-------------------------------------|
| H-M000 | MECHANICAL GENERAL NOTES AND LEGEND |
| H-M111 | HOME PRESS BOX - HVAC PLANS |
| H-M121 | HOME GATEWAY - HVAC PLANS |
| H-M131 | VISITOR TICKET BOOTH - HVAC PLANS |
| H-M500 | MECHANICAL DETAILS |
| H-M600 | MECHANICAL SCHEDULES & CONTROLS |
| Grand total: 6 | |

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Lee's Summit R7 District Athletics Facilities

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Lee's Summit, MO 64063

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PROJECT NO: 0119-0101
DATE: September 28, 2020

MECHANICAL GENERAL NOTES AND LEGEND

H-M000

BID SET

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| 1 | Addendum 1 | 10.23.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME PRESS BOX -
HVAC PLANS

H-M111

BID SET

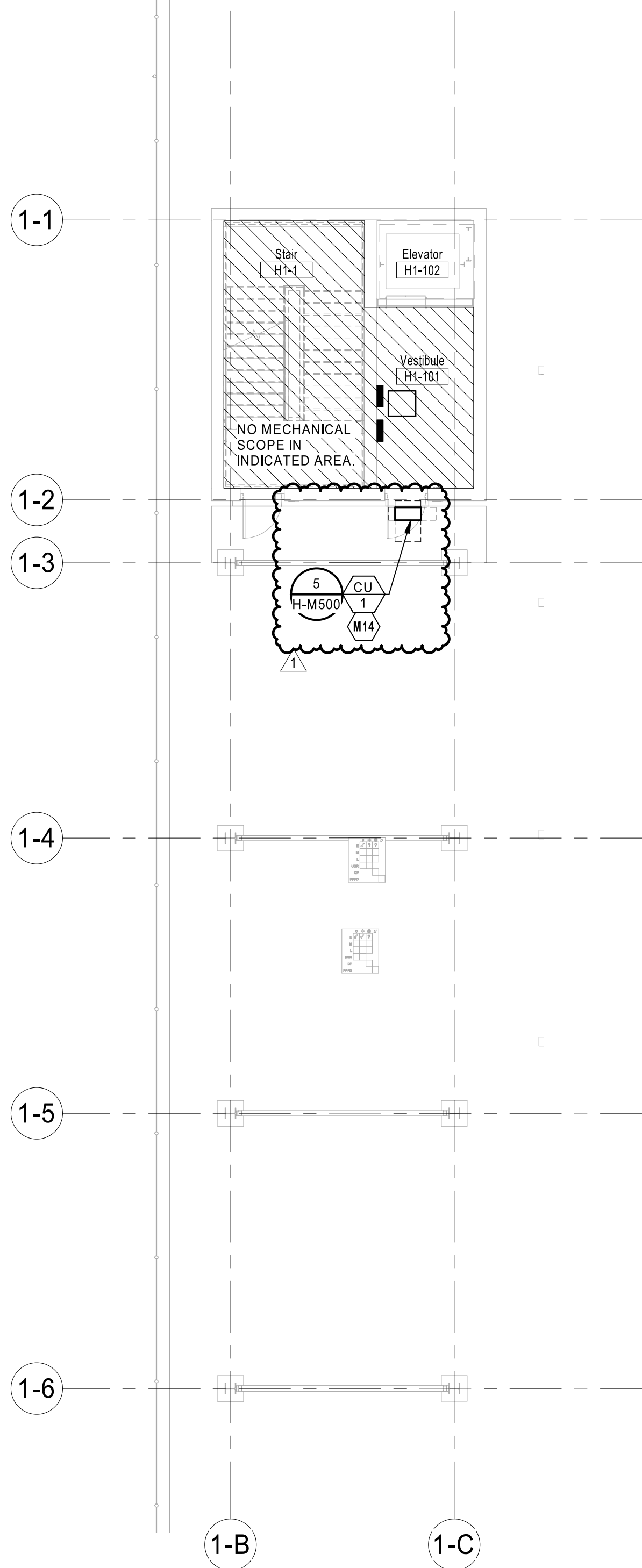
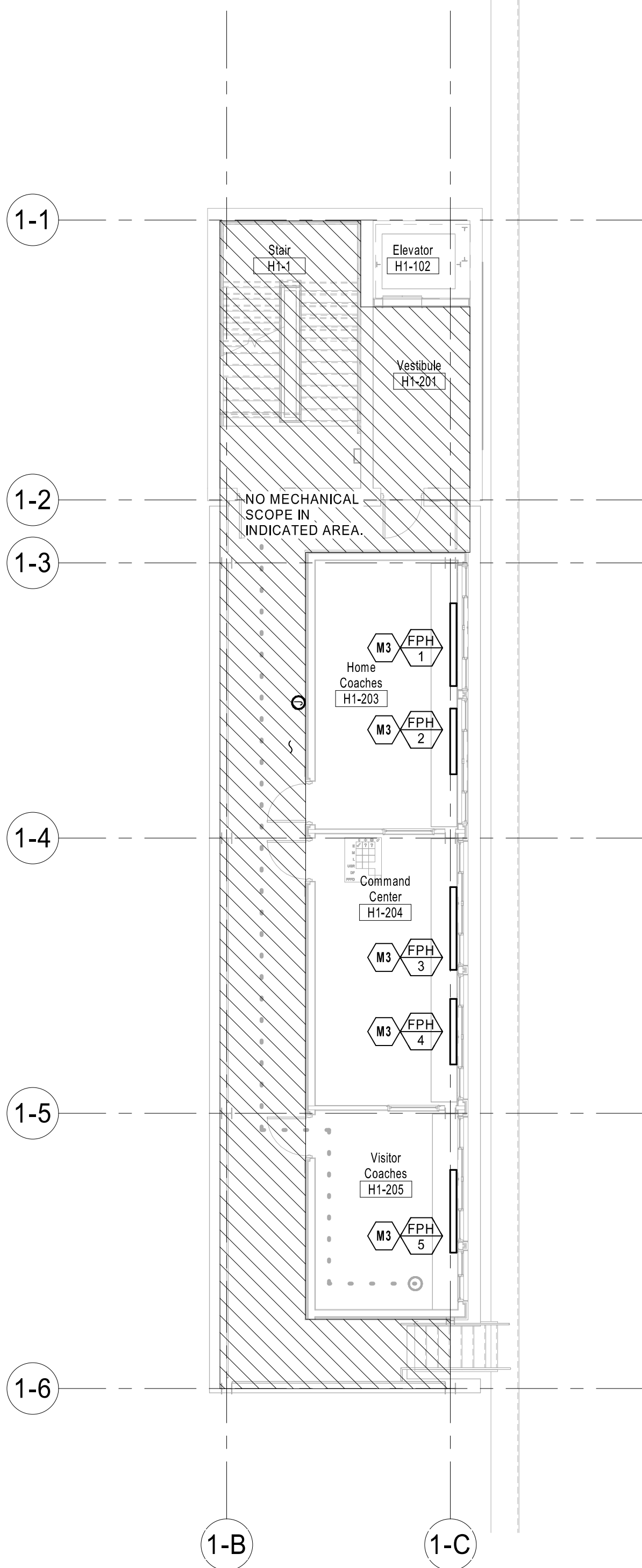
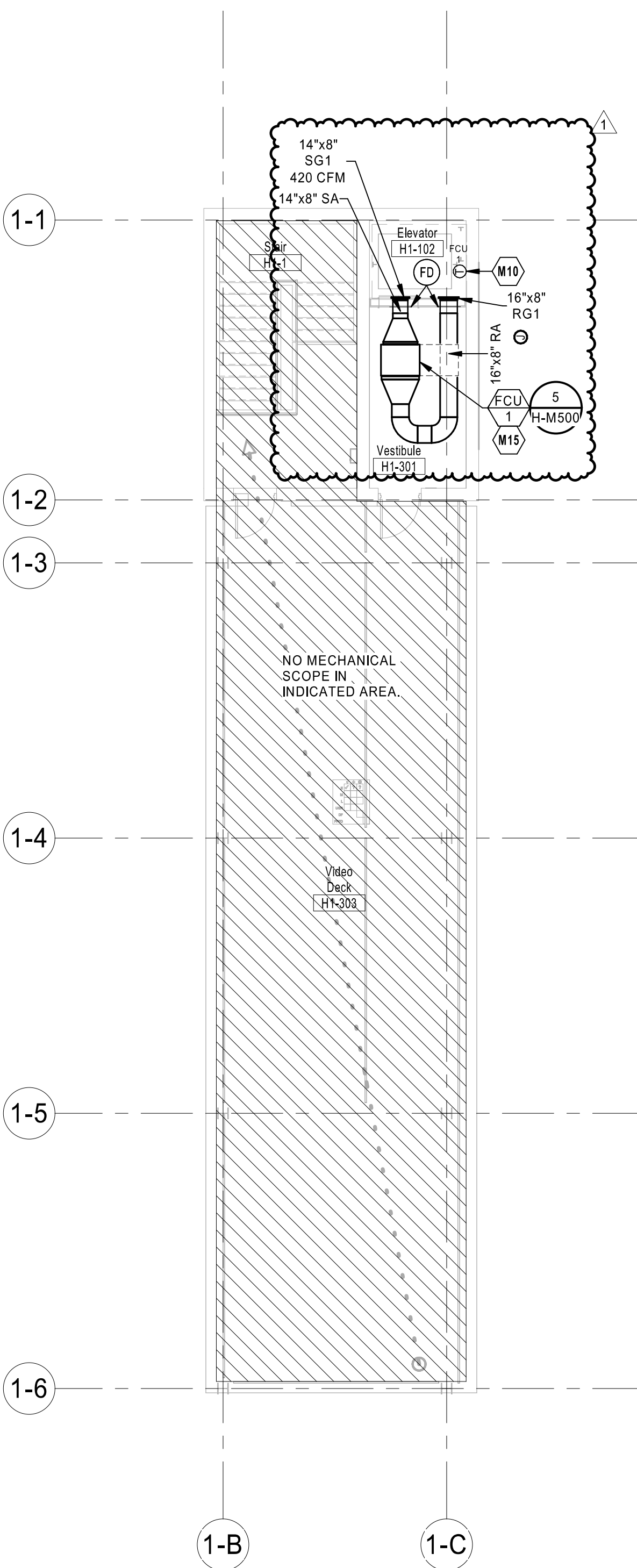
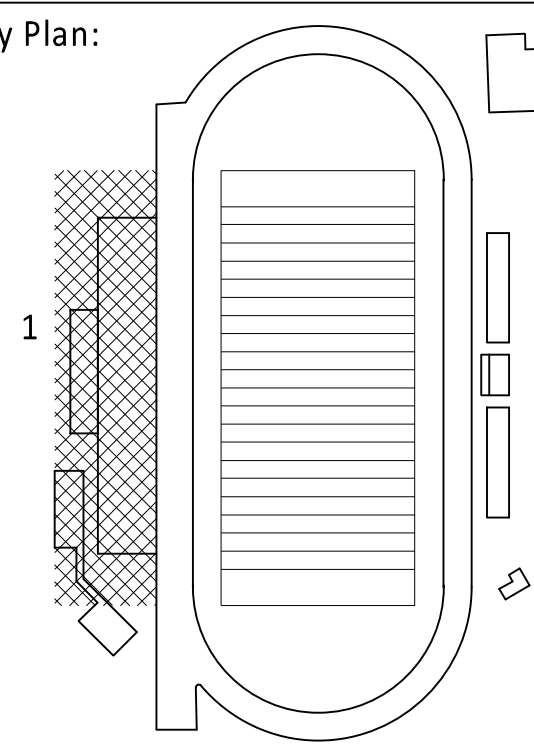
MECHANICAL PLAN NOTES:
M3 INSTALL FAN POWERED TERMINAL HEATER ON FLOOR.
M10 INSTALL THERMOSTAT IN ACCESSIBLE LOCATION WITHIN
THE ELEVATOR SHAFT AS CLOSE AS POSSIBLE TO
ELEVATOR CONTROLLER.
M14 INSTALL CONDENSING UNIT ON WALL 12'-0" ABOVE FINISHED
GRADE. ROUTE REFRIGERANT PIPING INSIDE AND UP THE
INTERIOR OF THE BUILDING. REFER TO SPECIFICATIONS
AND MANUFACTURER REQUIREMENTS.
M15 INSTALL FAN COIL UNIT SUSPENDED FROM STRUCTURE.
REFER TO SPECIFICATIONS AND MANUFACTURER
REQUIREMENTS.

③ HOME PRESS BOX - LEVEL 3 HVAC PLAN
1/8" = 1'-0"

② HOME PRESS BOX - LEVEL 2 HVAC PLAN
1/8" = 1'-0"

① HOME PRESS BOX - HVAC PLAN
1/8" = 1'-0"

Key Plan:



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Athletics Facilities

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PROJECT NO: 0119-0101
DATE: September 28, 2020

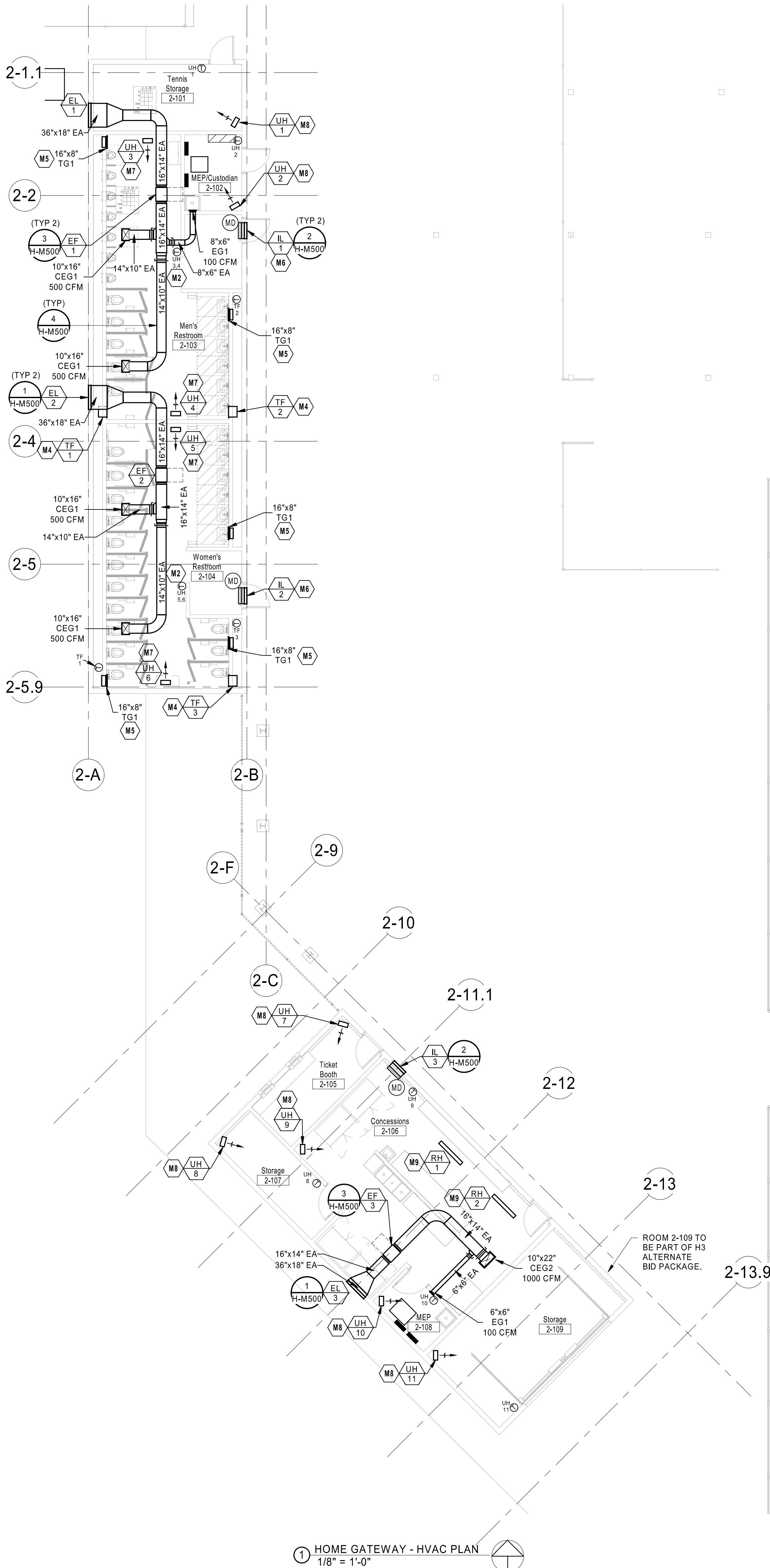
HOME GATEWAY -
HVAC PLANS

H-M121

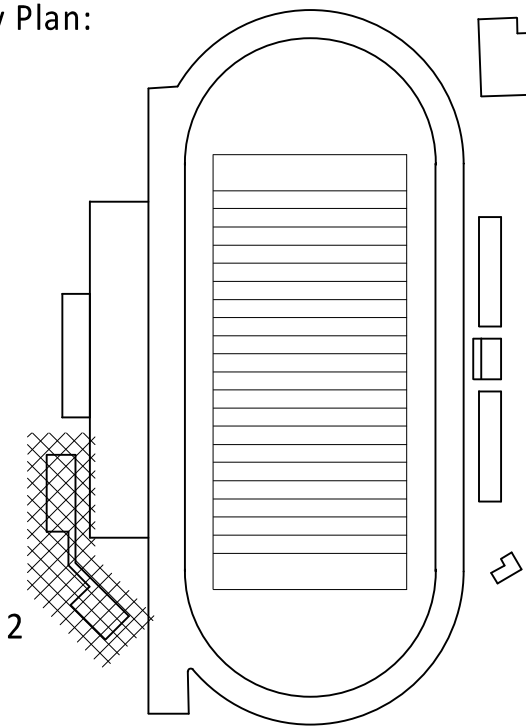
BID SET

MECHANICAL PLAN NOTES:

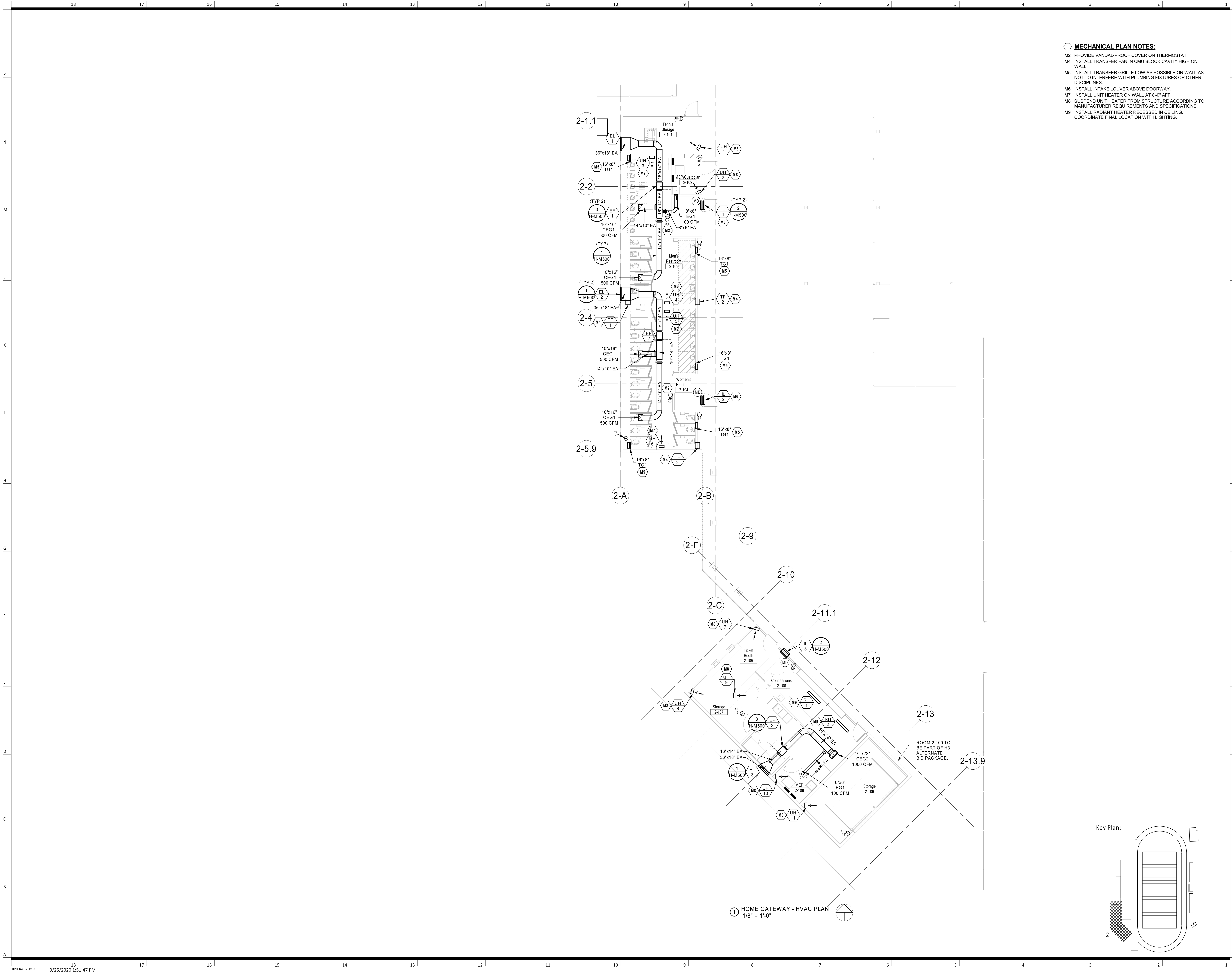
- M2 PROVIDE VANDAL-PROOF COVER ON THERMOSTAT.
M4 INSTALL TRANSFER FAN IN CMU BLOCK CAVITY HIGH ON WALL.
M5 INSTALL TRANSFER GRILLE LOW AS POSSIBLE ON WALL AS NOT TO INTERFERE WITH PLUMBING FIXTURES OR OTHER DISCIPLINES.
M6 INSTALL INTAKE LOUVER ABOVE DOORWAY.
M7 INSTALL UNIT HEATER ON WALL AT 8'-0" AFF.
M8 SUSPEND UNIT HEATER FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.
M9 INSTALL RADIANT HEATER RECESSED IN CEILING. COORDINATE FINAL LOCATION WITH LIGHTING.



Key Plan:



1 HOME GATEWAY - HVAC PLAN
1/8" = 1'-0"



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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

| Number | DESCRIPTION | DATE |
|--------|-------------|------|
|--------|-------------|------|

PROJECT NO: 0119-0101
DATE: September 28, 2020

VISITOR TICKET BOOTH
- HVAC PLANS

H-M131

BID SET

MECHANICAL PLAN NOTES:

MB SUSPEND UNIT HEATER FROM STRUCTURE ACCORDING TO
MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.

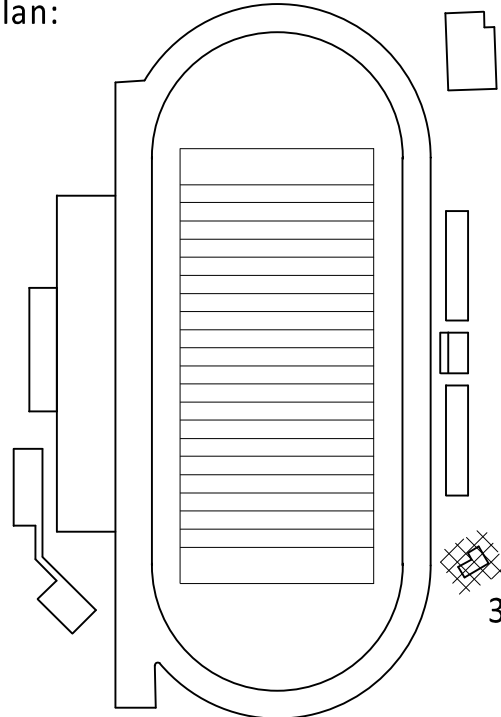
MB
H12

Visitor
Ticket
Booth
3-101

ROOM 3-101 TO
BE PART OF H1
ALTERNATE BID
PACKAGE.

1 VISITOR TICKET BOOTH - HVAC PLAN
1/8" = 1'-0"

Key Plan:



3

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
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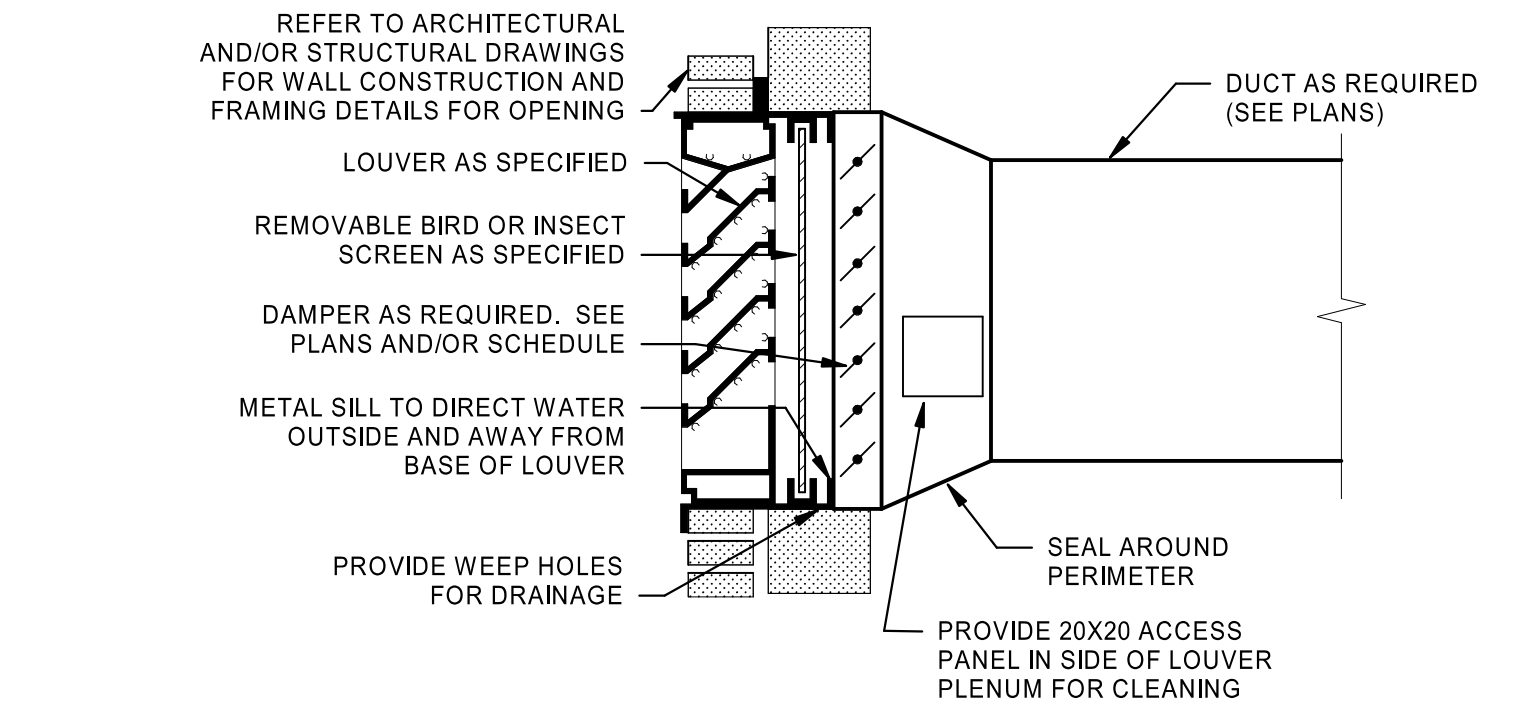
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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

STATE OF MISSOURI
KELLEY P. CRAMM
REGISTERED PROFESSIONAL ENGINEER
E-22223
Nov 6 2020

| REVISIONS | | |
|-----------|-------------|------------|
| NUMBER | DESCRIPTION | DATE |
| 1 | Addendum 3 | 10.23.2020 |

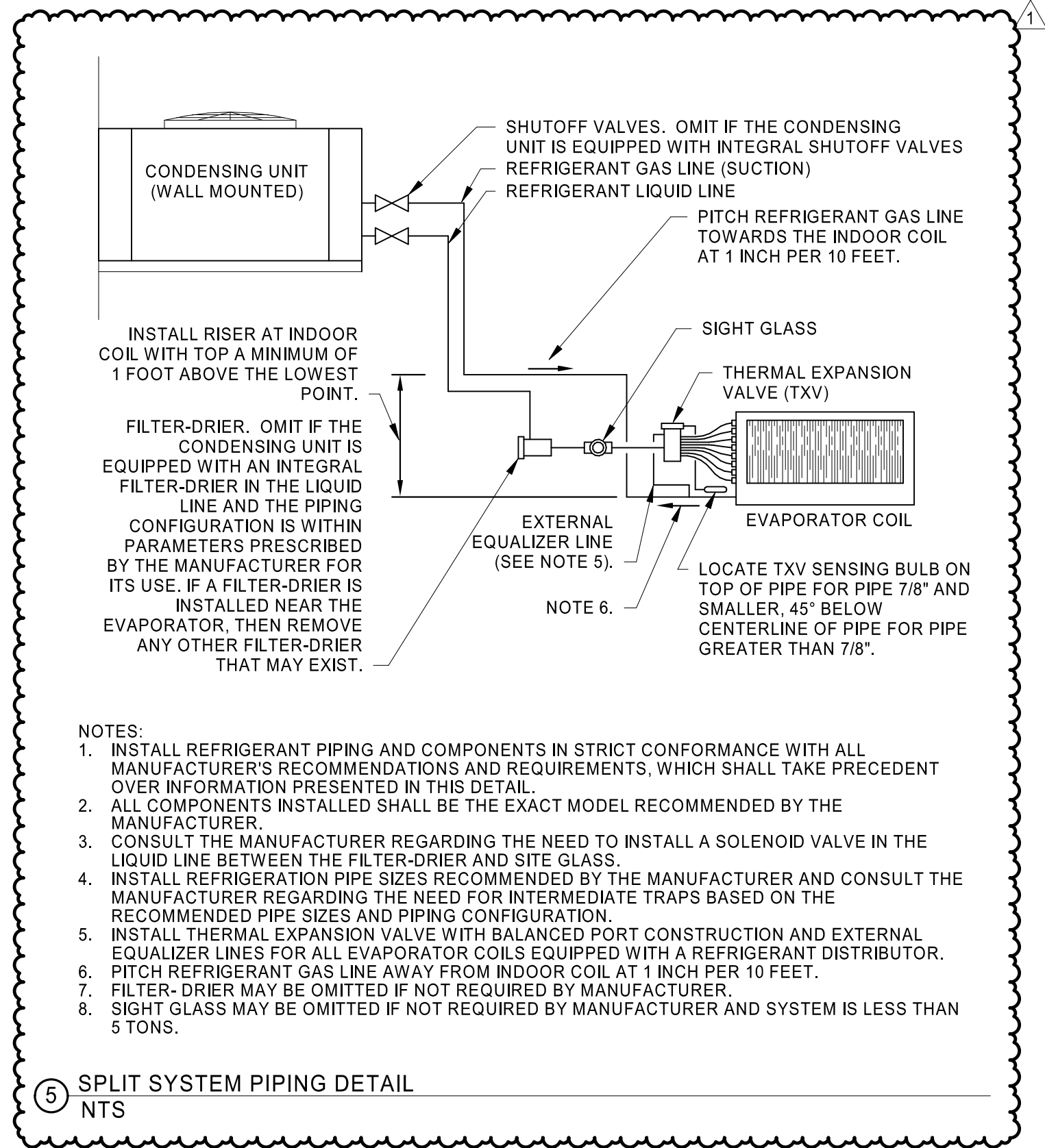
PROJECT NO: 0119-0101
DATE: September 28, 2020

MECHANICAL DETAILS
H-M500
BID SET



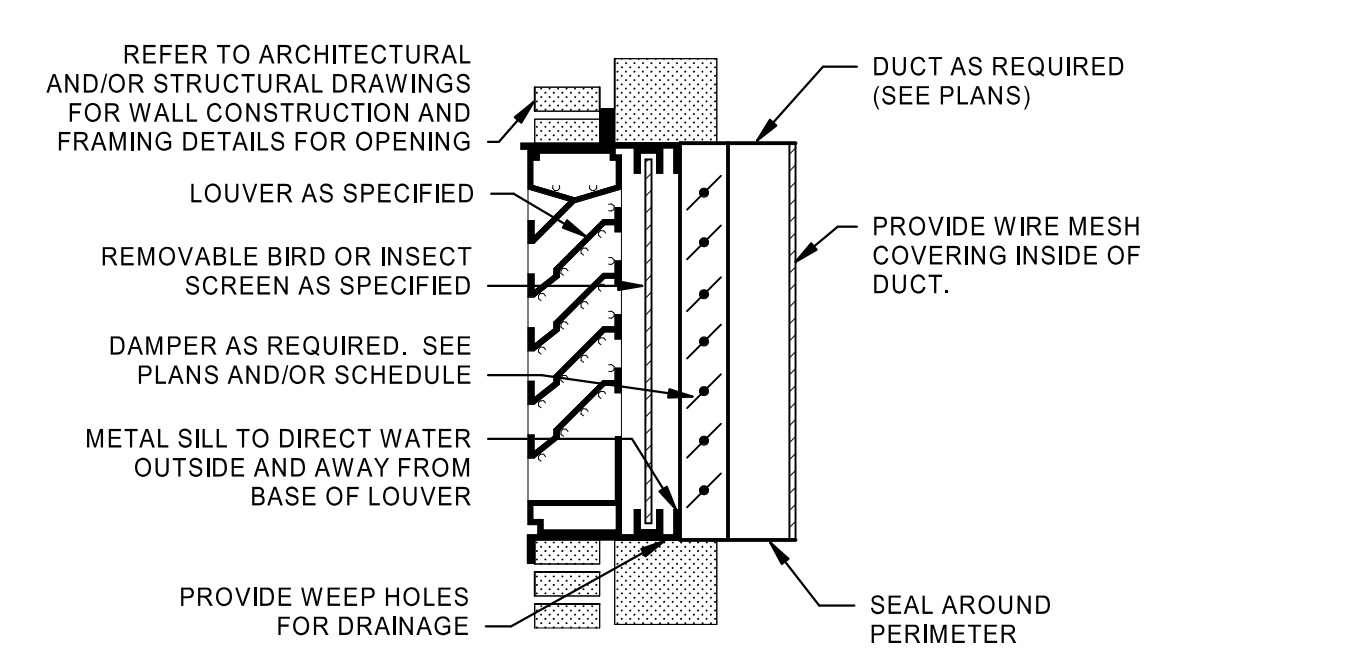
NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

1 EXHAUST LOUVER INSTALLATION DETAIL
NTS



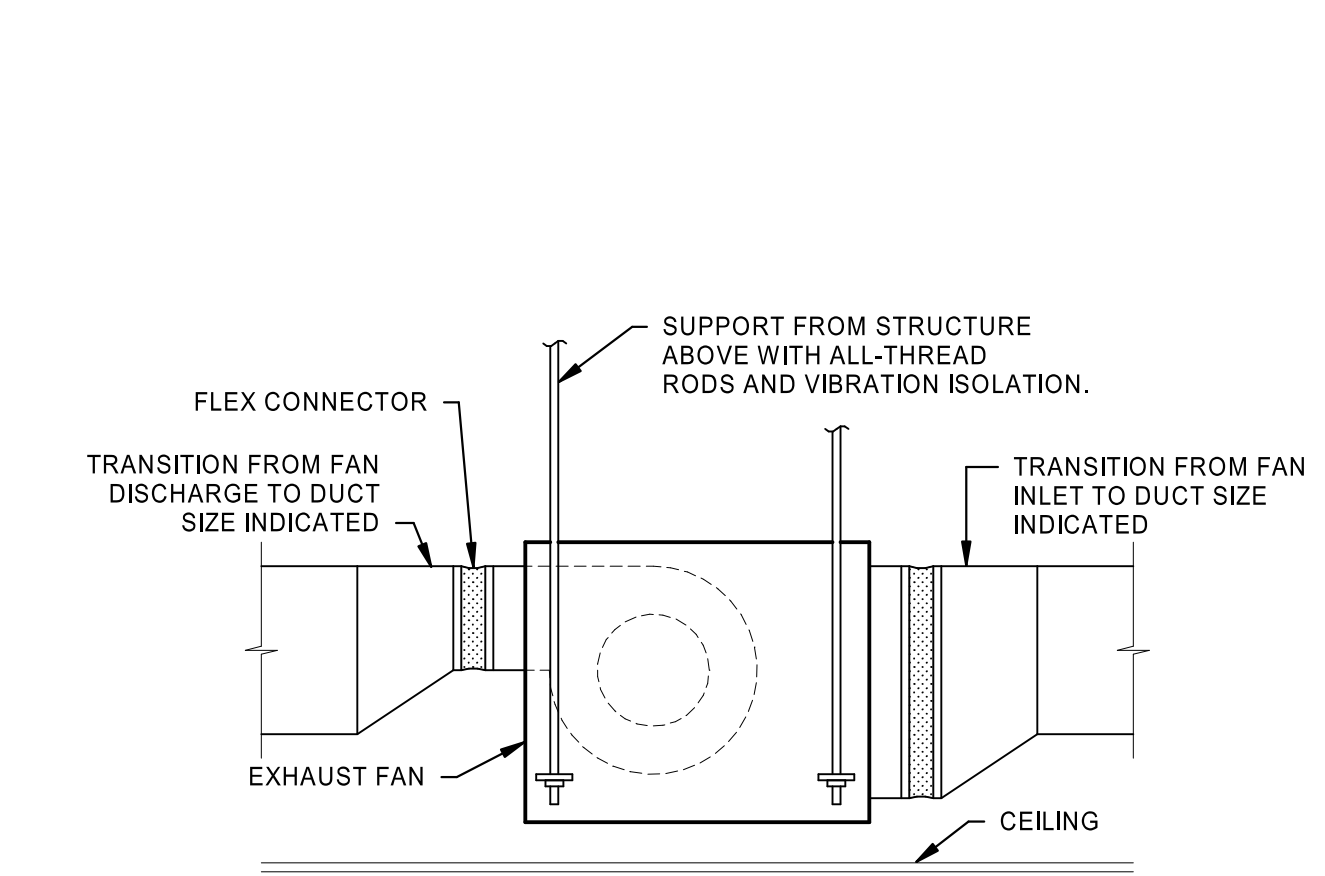
NOTES:
1. INSTALL REFRIGERANT PIPING AND COMPONENTS IN STRICT CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, WHICH SHALL TAKE PRECEDENT OVER INFORMATION PRESENTED IN THIS DETAIL.
2. ALL COMPONENTS INSTALLED SHALL BE THE EXACT MODEL RECOMMENDED BY THE MANUFACTURER.
3. CONSULT THE MANUFACTURER REGARDING THE NEED TO INSTALL A SOLENOID VALVE IN THE LIQUID LINE BETWEEN THE FILTER-DRIER AND SITE GLASS.
4. INSTALL REFRIGERATION PIPE SIZES RECOMMENDED BY THE MANUFACTURER AND CONSULT THE MANUFACTURER REGARDING THE NEED FOR INTERMEDIATE TRAPS BASED ON THE RECOMMENDED PIPE SIZES AND PIPING CONFIGURATION.
5. INSTALL THERMAL EXPANSION VALVE WITH BALANCED PORT CONSTRUCTION AND EXTERNAL EQUALIZER LINES FOR ALL EVAPORATOR COILS EQUIPPED WITH A REFRIGERANT DISTRIBUTOR.
6. PITCH REFRIGERANT GAS LINE AWAY FROM INDOOR COIL AT 1 INCH PER 10 FEET.
7. FILTER-DRIER MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER.
8. SIGHT GLASS MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER AND SYSTEM IS LESS THAN 5 TONS.

5 SPLIT SYSTEM PIPING DETAIL
NTS

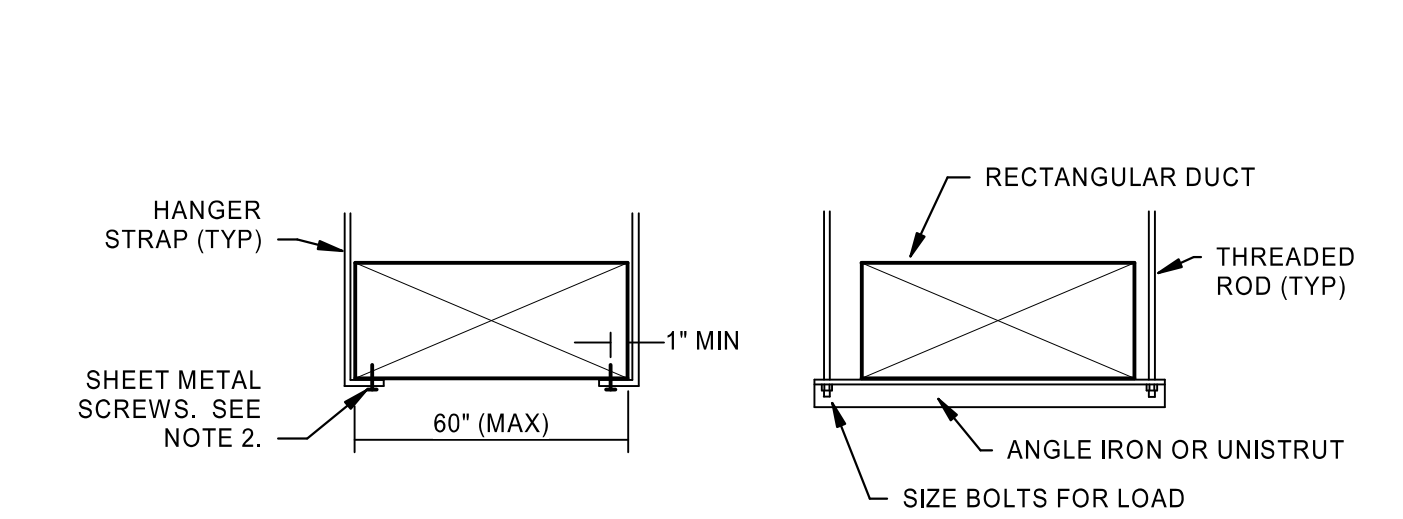


NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

2 INTAKE LOUVER INSTALLATION DETAIL
NTS



3 IN-LINE CABINET EXHAUST FAN DETAIL
NTS



NOTES:
1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60" WIDE.
2. OMIT SHEET METAL SCREWS IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE RECTANGULAR DUCT.
3. HANGERS MUST NOT DEFORM DUCT SHAPE.

4 DUCT HANGER LOWER ATTACHMENT DETAILS
NTS

FAN-POWERED TERMINAL HEATER SCHEDULE (ELECTRIC)

| MARK | LOCATION | MANUFACTURER | MODEL | LENGTH (IN) | INPUT (KW) | CFM | INTAKE | OUTLET | MOUNTING TYPE | VOLTS | PH | MCA | DISC TYPE | NOTES |
|-------|-----------------|--------------|---------------|-------------|------------|---------|--------|--------|---------------|-------|----|-----|-----------|-------------|
| FPH 1 | HOME COACHES | SOHO | SoHo-e-06-077 | 77" | 2.0 | 250 CFM | TOP | TOP | FLOOR | 277 | 1 | 9.0 | NON-FUSED | A,D,E,F,G,H |
| FPH 2 | HOME COACHES | SOHO | SoHo-e-06-061 | 61" | 1.5 | 185 CFM | TOP | TOP | FLOOR | 277 | 1 | 6.8 | NON-FUSED | A,D,E,F,G,H |
| FPH 3 | COMMAND CENTER | SOHO | SoHo-e-06-077 | 77" | 2.0 | 250 CFM | TOP | TOP | FLOOR | 277 | 1 | 9.0 | NON-FUSED | A,D,E,F,G,H |
| FPH 4 | COMMAND CENTER | SOHO | SoHo-e-06-061 | 61" | 1.5 | 185 CFM | TOP | TOP | FLOOR | 277 | 1 | 6.8 | NON-FUSED | A,D,E,F,G,H |
| FPH 5 | VISITOR COACHES | SOHO | SoHo-e-06-077 | 77" | 2.0 | 250 CFM | TOP | TOP | FLOOR | 277 | 1 | 9.0 | NON-FUSED | A,B,C,F,G,H |

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- PROVIDE WITH SINGLE POINT POWER CONNECTION.
- DIVISION 26 TO PROVIDE TIMER SWITCHES.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNIT.
- DIVISION 26 TO PROVIDE SINGLE TIMER SWITCH FOR ROOMS WITH MULTIPLE UNITS.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH SINGLE TIMER SWITCH IN ROOMS WITH MULTIPLE UNITS.
- PROVIDE WITH INTEGRATED THERMOSTAT.
- PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR EXPOSED FLOOR MOUNTING.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

| MARK | MANUFACTURER | SERVICE | MODEL | CONSTRUCTION | FACE TYPE | MOUNTING LOCATION | BORDER TYPE | FACE SIZE (IN) | MAX NC | MAX PRESS'D DROP (IN W.C.) | NOTES |
|------|--------------|----------|-------|--------------|-----------|-------------------|-------------|----------------|--------|----------------------------|---------|
| CEG1 | PRICE | EXHAUST | 630 | ALUMINUM | LOUVERED | CEILING | SURFACE | 16"x10" | 30 | 0.08 | A,B,C,D |
| CEG2 | PRICE | EXHAUST | 630 | ALUMINUM | LOUVERED | CEILING | SURFACE | 24"x12" | 30 | 0.08 | A,B,C,D |
| EG1 | PRICE | EXHAUST | 630 | ALUMINUM | LOUVERED | WALL | SURFACE | REFER TO PLANS | 30 | 0.08 | A,B,C,D |
| RG1 | PRICE | RETURN | 630 | ALUMINUM | LOUVERED | WALL | SURFACE | REFER TO PLANS | 30 | 0.05 | A,C,D |
| SG1 | PRICE | SUPPLY | 630 | ALUMINUM | LOUVERED | WALL | SURFACE | REFER TO PLANS | 30 | 0.08 | A,C,D |
| TG1 | PRICE | TRANSFER | 630 | ALUMINUM | LOUVERED | WALL | SURFACE | REFER TO PLANS | 30 | 0.08 | A,B,C,D |

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NOTES:

- NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
- BAKED ENAMEL FINISH. WHITE TO MATCH CEILING COLOR.
- FRONT BLADES PARALLEL TO LONG DIMENSION.
- FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
- FRONT BLADES PARALLEL TO SHORT DIMENSION.

LOUVER SCHEDULE

| MARK | AREA SERVED | SERVICE | MANUFACTURER | MODEL | WIDTH (IN) | LENGTH (IN) | CFM | MIN FREE AREA (SF) | MAX VEL (FPM) | MAX APD (IN W.C.) | NOTES |
|------|-----------------|---------|--------------|---------|------------|-------------|----------|--------------------|---------------|-------------------|-----------|
| EL 1 | RESTROOMS | EXHAUST | GREENHECK | ESD-635 | 36" | 18" | 1100 CFM | 1.58 | 700 FPM | 0.05 in-wg | A,B,C,D |
| EL 2 | RESTROOMS | EXHAUST | GREENHECK | ESD-635 | 36" | 18" | 1000 CFM | 1.43 | 700 FPM | 0.05 in-wg | A,B,C,D |
| EL 3 | CONCESSION | EXHAUST | GREENHECK | ESD-635 | 36" | 18" | 1100 CFM | 1.58 | 700 FPM | 0.05 in-wg | A,B,C,D |
| IL 1 | MENS RESTROOM | INTAKE | GREENHECK | ESD-635 | 24" | 24" | 1000 CFM | 1.77 | 560 FPM | 0.01 in-wg | A,B,C,E,F |
| IL 2 | WOMENS RESTROOM | INTAKE | GREENHECK | ESD-635 | 24" | 24" | 1000 CFM | 1.77 | 560 FPM | 0.01 in-wg | A,B,C,E,F |
| IL 3 | CONCESSION | INTAKE | GREENHECK | ESD-635 | 24" | 24" | 1000 CFM | 1.77 | 560 FPM | 0.01 in-wg | A,B,C,E,F |

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- PROVIDE 1/2" MESH ALUMINUM BIRD SCREEN.
- PROVIDE ANNOZIZED FINISH WITH COLOR SELECTED BY ARCHITECT.
- FRAME TYPE SHALL MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECT.
- PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
- PROVIDE WITH INTEGRAL 24 V MOTOR OPERATED DAMPER.
- INTERLOCK MOTOR-OPERATED DAMPER WITH EXHAUST FAN.

UNIT HEATER SCHEDULE (ELECTRIC)

| MARK | AREA SERVED | MANUFACTURER | MODEL | MIN OUT (MBH) | NOM (KW) | MIN NO OF STAGES | CFM | MOTOR HP | THROW (FT) | V/PH | DISC TYPE | NOTES |
|-------|----------------------|--------------|----------|---------------|----------|------------------|-----|----------|------------|-------|-----------|-------------|
| UH 1 | TENNIS STORAGE | QMARK | MUH03-71 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 277/1 | NON-FUSED | A,B,E,F |
| UH 2 | MEN/CELESTIAL | QMARK | MUH03-71 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 277/1 | NON-FUSED | A,B,E,F |
| UH 3 | MENS RESTROOM | QMARK | MUH-07-4 | 25.6 | 7.5 | 2 | 650 | 0.04 | 18 | 480/3 | NON-FUSED | A,E,F,G |
| UH 4 | MENS RESTROOM | QMARK | MUH05-41 | 17.0 | 5.0 | 2 | 350 | 0.01 | 12 | 480/3 | NON-FUSED | A,E,F,G |
| UH 5 | WOMENS RESTROOM | QMARK | MUH05-41 | 17.0 | 5.0 | 2 | 350 | 0.01 | 12 | 480/3 | NON-FUSED | A,E,F,G |
| UH 6 | WOMENS RESTROOM | QMARK | MUH-07-4 | 25.6 | 7.5 | 2 | 650 | 0.04 | 18 | 480/3 | NON-FUSED | A,E,F,G |
| UH 7 | TICKET BOOTH | QMARK | MUH03-41 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 277/1 | NON-FUSED | A,C,D,E,F,H |
| UH 8 | STORAGE | QMARK | MUH03-71 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 277/1 | NON-FUSED | A,B,E,F |
| UH 9 | CONCESSION | QMARK | MUH-07-4 | 25.6 | 7.5 | 2 | 650 | 0.04 | 18 | 480/3 | NON-FUSED | A,B,E,F |
| UH 10 | MEP | QMARK | MUH03-71 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 277/1 | NON-FUSED | A,B,E,F |
| UH 11 | BAND STORAGE | QMARK | MUH03-71 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 277/1 | NON-FUSED | A,B,E,F |
| UH 12 | VISITOR TICKET BOOTH | QMARK | MUH03-41 | 10.2 | 3.0 | 1 | 350 | 0.01 | 12 | 298/1 | NON-FUSED | A,C,D,E,F,H |

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NOTES:

- MOUNT 8 FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
- PROVIDE WITH WALL MOUNTED THERMOSTAT.
- DIVISION 26 TO PROVIDE TIMER SWITCH.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNIT.
- PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR HORIZONTAL DISCHARGE MOUNTING.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.
- PROVIDE WITH SINGLE WALL MOUNTED THERMOSTAT TO CONTROL 2 UNIT HEATERS.
- PROVIDE WITH FACTORY MOUNTED THERMOSTAT.

SPLIT SYSTEM FAN COIL UNIT SCHEDULE (HEAT PUMP)

| MARK | MANUFACTURER | MODEL | SUPPLY FAN | | | COOLING COIL | | | HEAT PUMP HEATING COIL | | | | ELECTRICAL | | | | WEIGHT (LBS) | NOTES | | | |
|-------|--------------|------------------|------------|----------|--------|--------------|----------|---------------------|------------------------|---------------|-----------------|-------------|-----------------|------|-------|-------|--------------|-----------|-----------|--------------|-----|
| | | | CFM | ESP (IN) | NOM HP | TH (MBH) | SH (MBH) | EAT (°F DB) (°F WB) | REFR TYPE | MIN OUT (MBH) | AMBIENT (°F DB) | EAT (°F DB) | HTG (°F DB) LAT | V/PH | MCA | MOC/P | | | DISC TYPE | STARTER TYPE | |
| FCU 1 | MTSUBISHI | PEAD-A12/PUZ-A12 | 420 | 0.20 | 0.01 | 12.0 | 10.0 | 80.0 | 67.0 | R-410A | 10.5 | 5°F | 55°F | 85°F | 208/1 | 11 | 28 | NON-FUSED | INTEGRAL | 58 | A-L |

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NOTES:

- EQUIPMENT COMPONENTS SHALL BE BY THE SAME MANUFACTURER.
- FOR COOLING, EQUIPMENT SIZED FOR 100° F AMBIENT TEMPERATURE.
- HEAT PUMP HEATING CAPACITY BASED ON AMBIENT TEMPERATURE LISTED.
- PROVIDE 2" PLEATED THROWAWAY AIR FILTERS.
- PROVIDE FACTORY MOUNTED STARTER AND DISCONNECT SWITCH.
- PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF HEATING, COOLING CONTROLS.
- SUSPEND FAN COIL UNIT FROM STRUCTURE IN HORIZONTAL POSITION WITH ALL-THREAD ROD AND SPRING VIBRATION ISOLATION (2" MINIMUM DEFLECTION).
- PROVIDE WALL MOUNTING BRACKET FOR CONDENSING UNIT.
- ROUTE CONDENSATE DRAIN PIPING FROM UNIT TO NEAREST FLOOR DRAIN AND TERMINATE WITH CODE-APPROVED AIR GAP.
- PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN. [AUXILIARY DRAIN PROVIDED BY PLUMBING CONTRACTOR.]
- PROVIDE CUSTOM COLOR FINISH ON CONDENSING COLOR WITH ARCHITECT.

RADIANT HEATER SCHEDULE (ELECTRIC)

| MARK | LOCATION | MANUFACTURER | MODEL | MOUNTING TYPE | SIZE (L" x W") | INPUT (W) | VOLTS | PHASE | NOTES |
|------|------------|--------------|----------|---------------|----------------|-----------|-------|-------|-------|
| RH 1 | CONCESSION | QMARK | HRK42027 | RECESSED | 5.5"x46" | 2000.0 W | 277 V | 1 | A,B |
| RH 2 | CONCESSION | QMARK | HRK42027 | RECESSED | 5.5"x46" | 2000.0 W | 277 V | 1 | A,B |

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NOTES:

- DIVISION 26 TO PROVIDE SINGLE TIMER SWITCH TO CONTROL 2 RADIANT HEATERS.
- DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNITS.

FAN SCHEDULE

| MARK | LOCATION | SERVICE DESCRIPTION | MANUFACTURER | MOUNTING | MODEL | CFM | ESP (IN) | NOM HP | FAN RPM | DRIVE (BELT/DIRECT) | ELECTRICAL | WEIGHT (LBS) | NOTES |
|------|-----------------|---------------------|--------------|----------|-----------|------|----------|--------|---------|---------------------|------------|--------------|---------|
| EF 1 | MENS RESTROOM | EXHAUST | GREENHECK | INLINE | SO-100-VG | 1100 | 0.25 | 0.25 | 1456 | DIRECT | 115/1 | NON-FUSED | A,B,C,D |
| EF 2 | WOMENS RESTROOM | EXHAUST | GREENHECK | INLINE | SO-100-VG | 1000 | 0.25 | 0.25 | 1352 | DIRECT | 115/1 | NON-FUSED | A,B,C,D |
| EF 3 | CONCESSION | EXHAUST | GREENHECK | INLINE | SO-100-VG | 1100 | 0.25 | 0.25 | 1456 | DIRECT | 115/1 | NON-FUSED | A,B,C,D |
| TF 1 | RESTROOMS | TRANSFER | GREENHECK | WALL | CBF | 500 | 0.20 | 0.05 | 1050 | DIRECT | 115/1 | NON-FUSED | B,C,E |
| TF 2 | RESTROOMS | TRANSFER | GREENHECK | WALL | CBF | 500 | 0.20 | 0.05 | 1050 | DIRECT | 115/1 | NON-FUSED | B,C,E |
| TF 3 | RESTROOMS | TRANSFER | GREENHECK | WALL | CBF | 500 | 0.20 | 0.05 | 1050 | DIRECT | 115/1 | NON-FUSED | B,C,E |

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- PROVIDE RUBBER IN SHEAR ISOLATION AND ALL-THREAD HANGING RODS.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
- PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.
- PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR.
- PROVIDE WITH WALL MOUNTED TEMPERATURE SENSOR.

SEQUENCE OF OPERATIONS MISCELLANEOUS EQUIPMENT

EXHAUST FAN (EF-1,2,3)

OPERATING MODES

OCCUPIED MODE:

The units shall be in occupied mode when the room light switch is turned on.

UNOCCUPIED MODE:

The units shall be in unoccupied mode for all periods when the room light switch is turned off.

COMPONENT CONTROL LOOPS

The units shall be controlled by the room lighting controls system. A 2 position motorized damper at the intake louver shall be linked with the exhaust fan.

When in occupied mode:

The unit shall run continuously.

2 position motorized damper at intake louver shall be open.

When in unoccupied mode:

The unit shall be off.

2 position motorized damper at intake louver shall be closed.

TRANSFER FAN (TF-1,2,3)

OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint of 50 F.

TRANSFER MODE:

The units shall be in transfer mode when the zone temperature (Z-T) falls below space temperature setpoint of 50 F.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. Each unit shall be controlled by a wall mounted thermostat located within the respective plumbing chase.

When in Standby Mode:

The unit shall remain off.

When in Transfer Mode:

The unit shall be on.

The unit shall remain on until space temperature as sensed by the wall mounted thermostat is above space temperature setpoint of 50 F.

ELECTRIC UNIT HEATER (UH-1,2,3,4,5,6,8,9,10,11)

OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint.

HEATING MODE:

The units shall be in heating mode when the zone temperature (Z-T) falls below space temperature setpoint.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. The units shall be controlled by a wall mounted thermostat located within each respective space.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

The unit shall stage/cycle heater as required to maintain space temperature setpoint of 68 F as sensed by the wall mounted thermostat.

FAN-POWERED TERMINAL HEATER (FPH-1,2,3,4,5)

OPERATING MODES

STANDBY MODE:

The unit shall be in standby mode when the timer switch is off.

HEATING MODE:

The unit shall be in heating mode when the timer switch is on.

COMPONENT CONTROL LOOPS

The units shall operate as an independent system. The units shall be controlled by a timer switch located within each respective space.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

The unit shall stage/cycle cooling as required to maintain space temperature setpoint of 80 F as sensed by the wall mounted thermostat.

When in Cooling Mode:

The unit shall be on.

The unit shall stage/cycle heating as required to maintain space temperature setpoint of 68 F as sensed by the wall mounted thermostat.

When in Heating Mode:

The unit shall be on.

When in Cooling Mode:

The unit shall be on.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

When in Cooling Mode:

The unit shall be on.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

When in Cooling Mode:

The unit shall be on.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

When in Cooling Mode:

The unit shall be on.

When in Standby Mode:

The unit shall remain off.

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phoenix • san francisco

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Lee's Summit R7 District
Athletics Facilities

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PROJ000134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Nov 6 2020

REVISIONS

NUMBER 1 DESCRIPTION Addendum 1 DATE 10.23.2020

PROJECT NO: 0119-0101

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
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civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
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EXPIRES 12/31/2020



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REVISIONS

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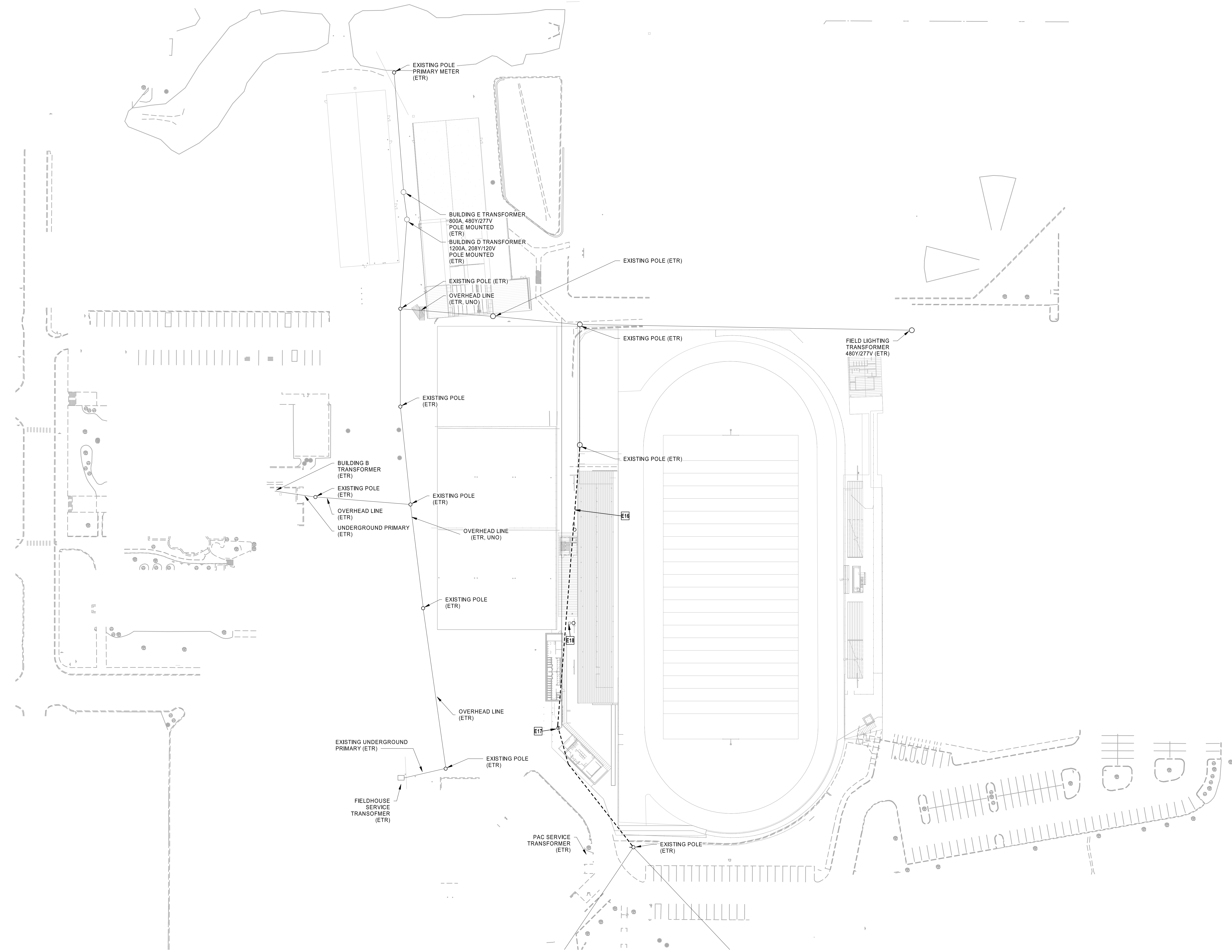
PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL SITE PLAN
- DEMO

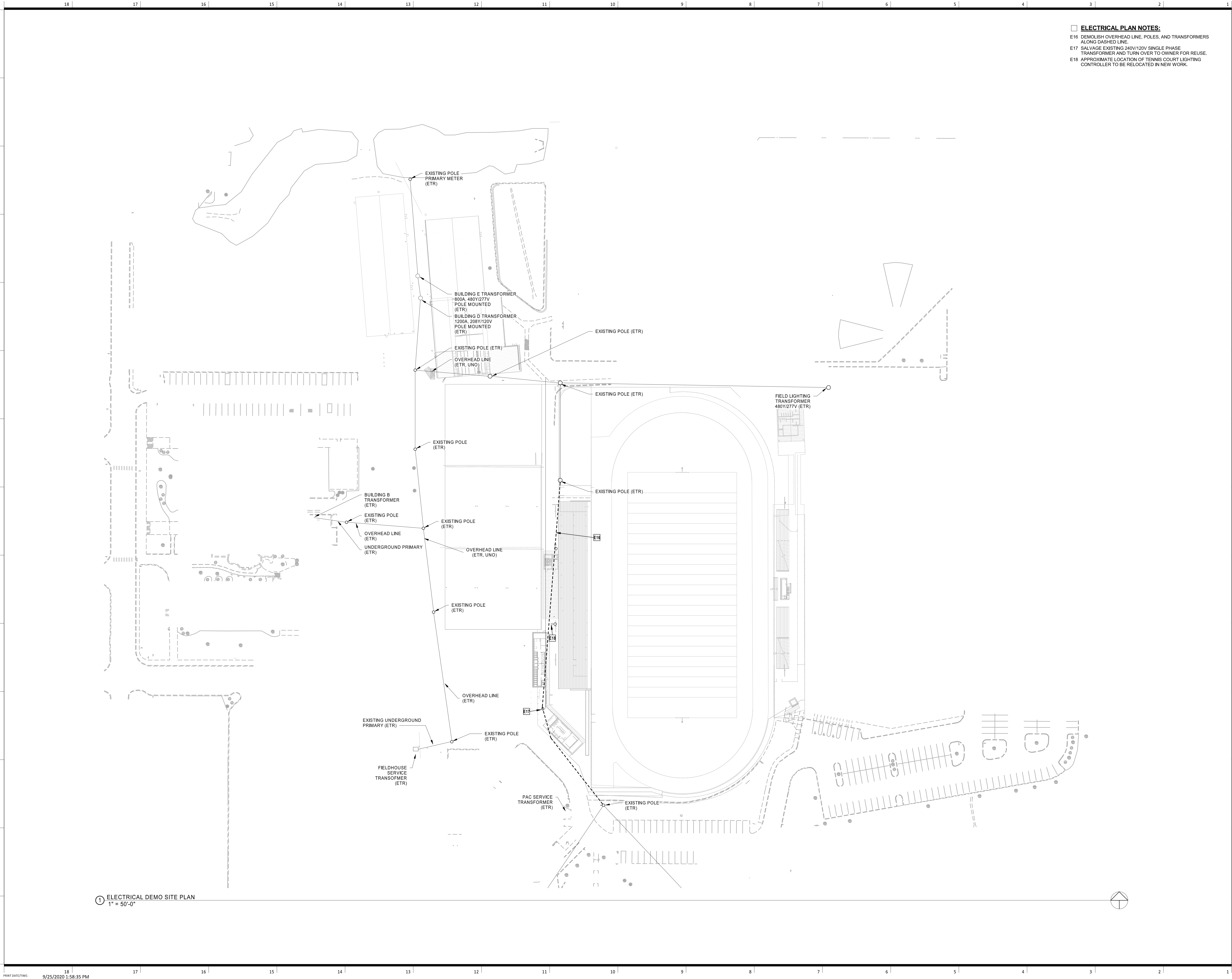
H-E001

BID SET

- ☐ **ELECTRICAL PLAN NOTES:**
E16 DEMOLISH OVERHEAD LINE, POLES, AND TRANSFORMERS
ALONG DASHED LINE.
E17 SALVAGE EXISTING 240V/120V SINGLE PHASE
TRANSFORMER AND TURN OVER TO OWNER FOR REUSE.
E18 APPROXIMATE LOCATION OF TENNIS COURT LIGHTING
CONTROLLER TO BE RELOCATED IN NEW WORK.



① ELECTRICAL DEMO SITE PLAN
1" = 50'-0"



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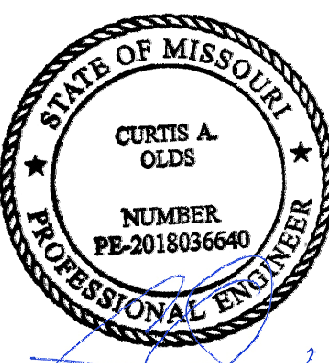
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REVISIONS

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| 1 | Addendum 3 | 10.29.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

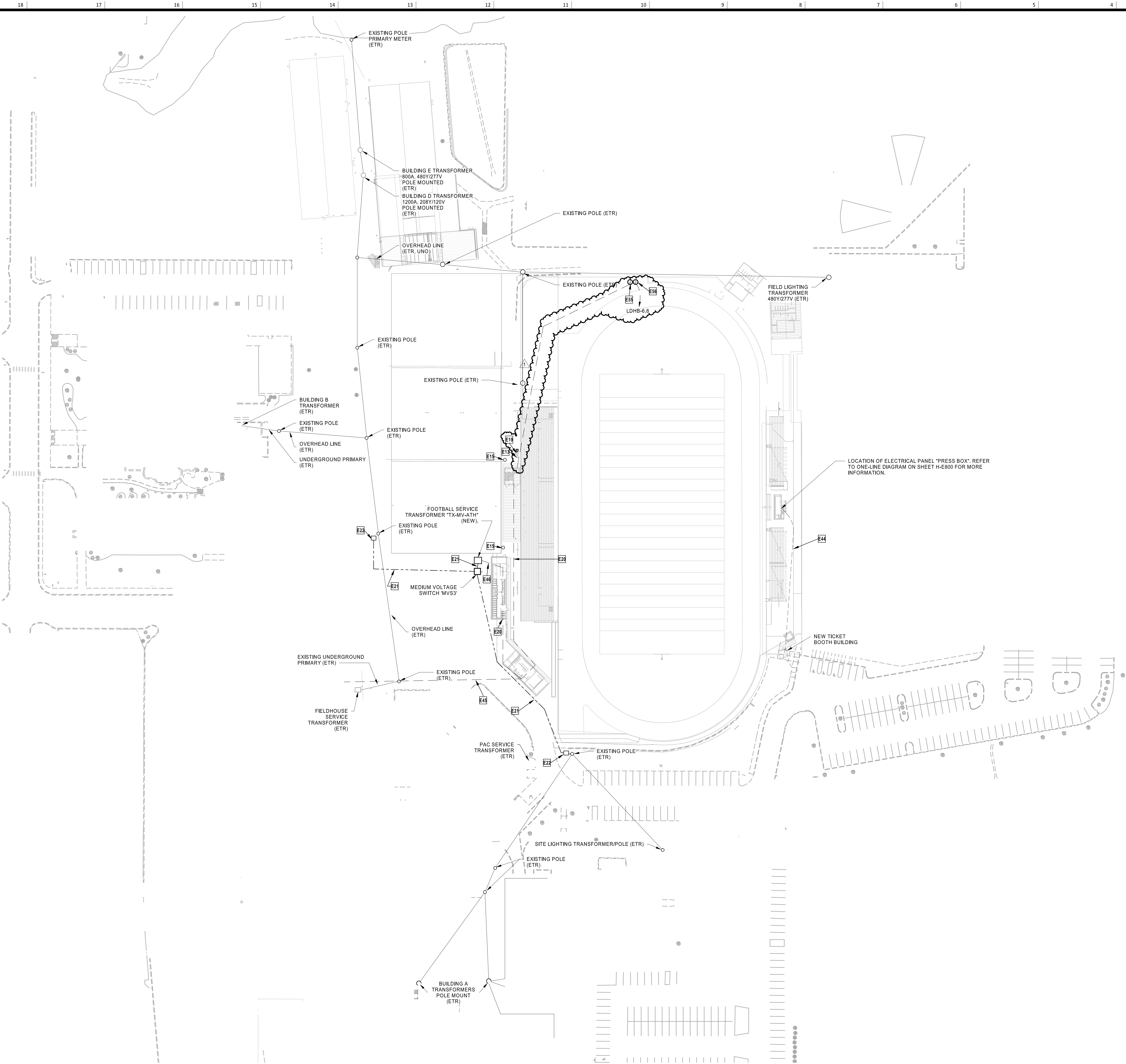
ELECTRICAL SITE PLAN
- NEW

H-E002

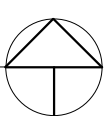
BID SET

ELECTRICAL PLAN NOTES:

- E13 APPROXIMATE LOCATION OF EXISTING TENNIS COURT LIGHTING CABINET.
- E15 NEW LOCATION OF EXISTING TENNIS COURT LIGHT POLES. PROVIDE NEW FEEDER FROM POLE LOCATION TO TENNIS COURT LIGHTING CABINET. NEW FEEDER SHALL MATCH EXISTING SIZE. RE-AM FIXTURES TO MAINTAIN UNIFORM ILLUMINATION ACROSS THE TENNIS COURTS.
- E19 NEW LOCATION OF EXISTING TENNIS COURT LIGHTING CONTROLLER. PROVIDE NEW FEEDER FROM CONTROLLER TO CABINET. NEW FEEDER SHALL MATCH EXISTING.
- E20 PROVIDE THE FOLLOWING: 2" CONDUIT FOR TELECOM. CONDUIT FOR ELECTRICAL FEEDER, AND (1) 1" SPARE CONDUIT BETWEEN BUILDINGS AS SHOWN. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET H-E800 FOR ELECTRICAL FEEDER CONDUIT SIZING. COORDINATE ROUTING WITH CIVIL ENGINEER.
- E21 NEW UNDERGROUND PRIMARY ROUTING SHOWN FOR DIAGRAMMATIC PURPOSES. COORDINATE ROUTING AND DEPTH OF MEDIUM VOLTAGE CONDUITS WITH CIVIL DRAWINGS. REFER TO ONE-LINE DIAGRAM FOR CONDUIT AND WIRE SIZES.
- E22 HAND HOLE FOR CONNECTION TO EXISTING POLE MOUNTED MEDIUM VOLTAGE INFRASTRUCTURE.
- E44 PROVIDE THE FOLLOWING: 2" CONDUIT FOR TELECOM. CONDUIT FOR ELECTRICAL FEEDER, AND (1) 1" SPARE CONDUIT BETWEEN BUILDINGS AS SHOWN. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET H-E801 FOR ELECTRICAL FEEDER CONDUIT SIZING. COORDINATE ROUTING WITH CIVIL ENGINEER.
- E45 PROVIDE (2) 2" CONDUITS FOR TELECOM. ROUTE FROM IDF ROOM AT SCHOOL BUILDING TO CONCESSION BUILDING. COORDINATE ROUTING WITH CIVIL ENGINEER AND OWNER.
- E46 REFER TO ELECTRICAL ONE-LINE ON SHEET H-E800 FOR CONDUIT SIZING AND ROUTING.
- E55 PROVIDE EMPTY 1-1/4" CONDUIT FROM COMMAND CENTER H1-204 IN PRESS BOX TO EXISTING SCOREBOARD. TERMINATE CONDUIT IN HAND HOLE NEAR SCOREBOARD FOR FUTURE CONNECTION OF LOW VOLTAGE WIRING.
- E56 PROVIDE NEW POWER CONNECTION TO EXISTING SCOREBOARD AS SHOWN. NEW CONDUIT SHALL BE ROUTED PARALLEL TO THE EMPTY LOW-VOLTAGE CONDUIT. PULL (4)#10, #10G FOR THIS CIRCUIT. CURRENT SCOREBOARD IS SINGLE PHASE BUT PROPOSED NEW EQUIPMENT WILL BE 3-PHASE.



1 ELECTRICAL SITE PLAN
1" = 50'-0"



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Sep 25 2020

REVISIONS

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PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME PRESS BOX -
POWER PLANS

H-E112

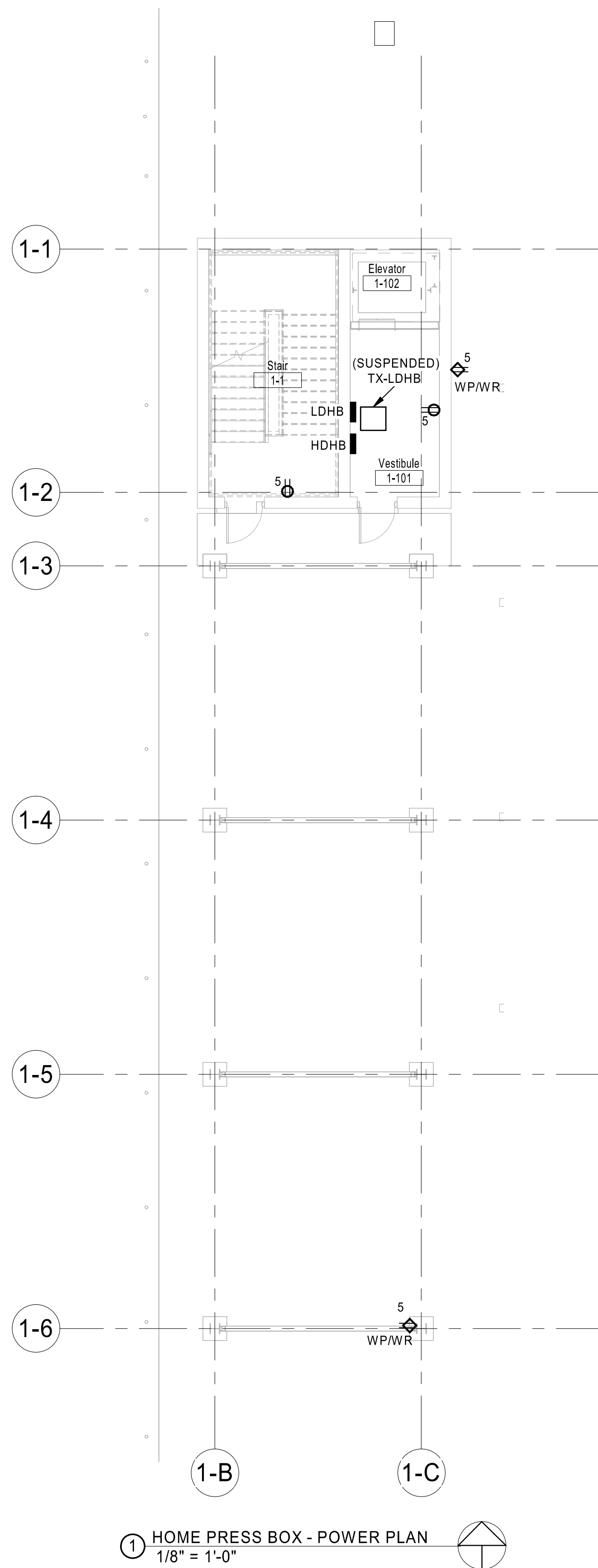
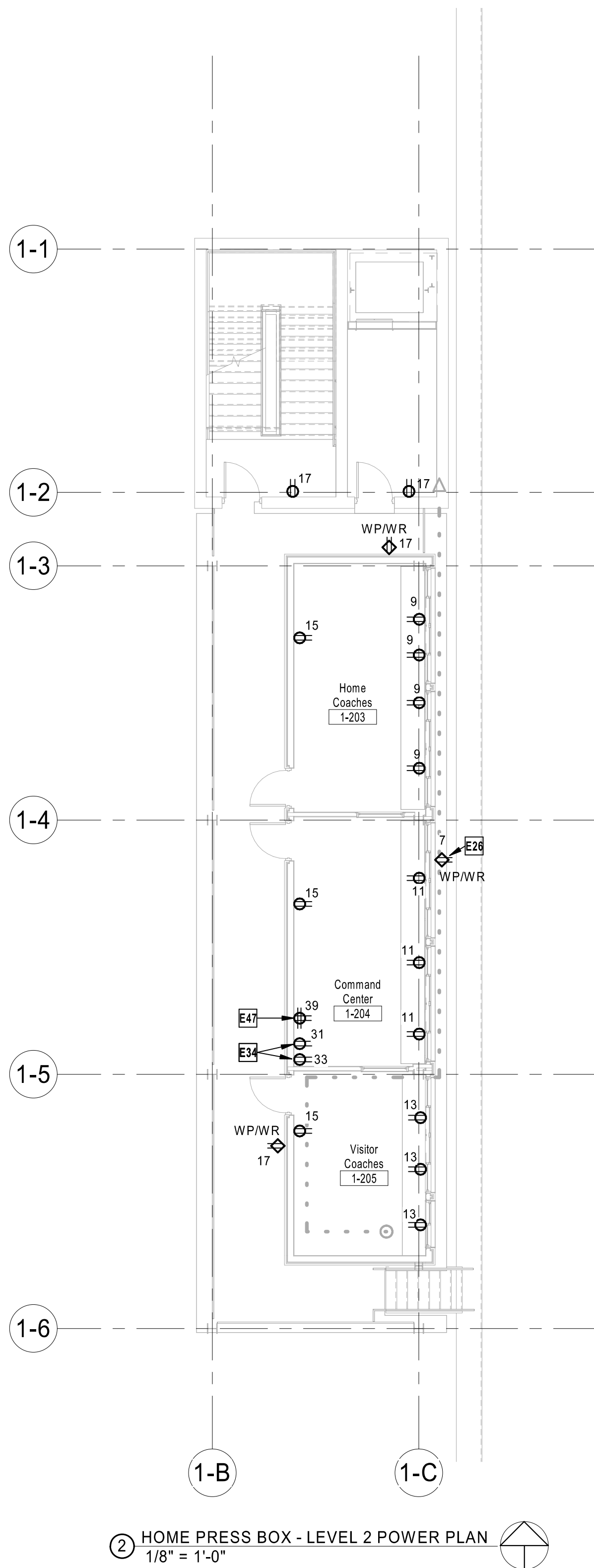
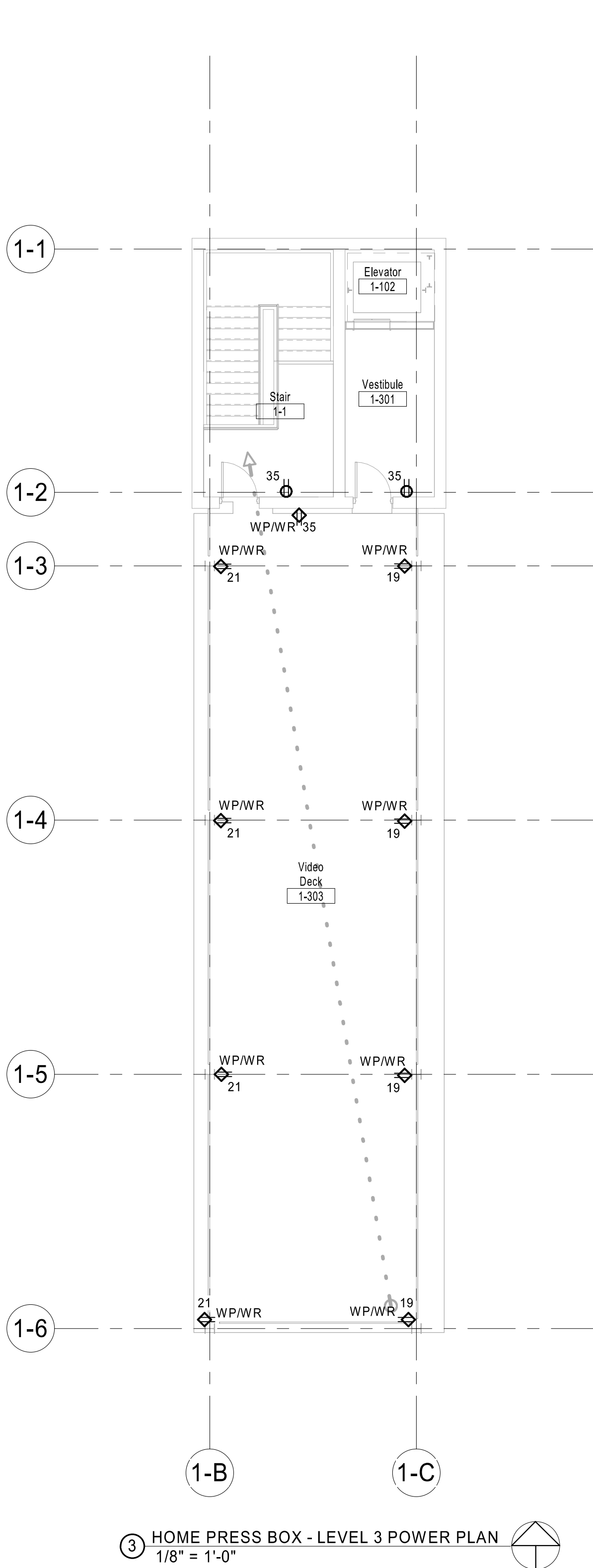
BID SET

ELECTRICAL GENERAL NOTES:

1. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.

ELECTRICAL PLAN NOTES:

- E26 DEDICATED 120V RECEPTACLE FOR HUDL CAMERA.
E34 COORDINATE LOCATION OF PA SYSTEM CIRCUITS WITH OWNER PRIOR TO ROUGH-IN.
E47 POWER CONNECTION FOR IT RACK. COORDINATE FINAL LOCATION WITH IT INSTALLER.



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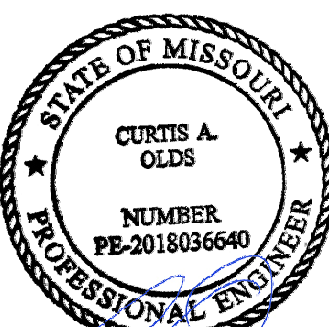
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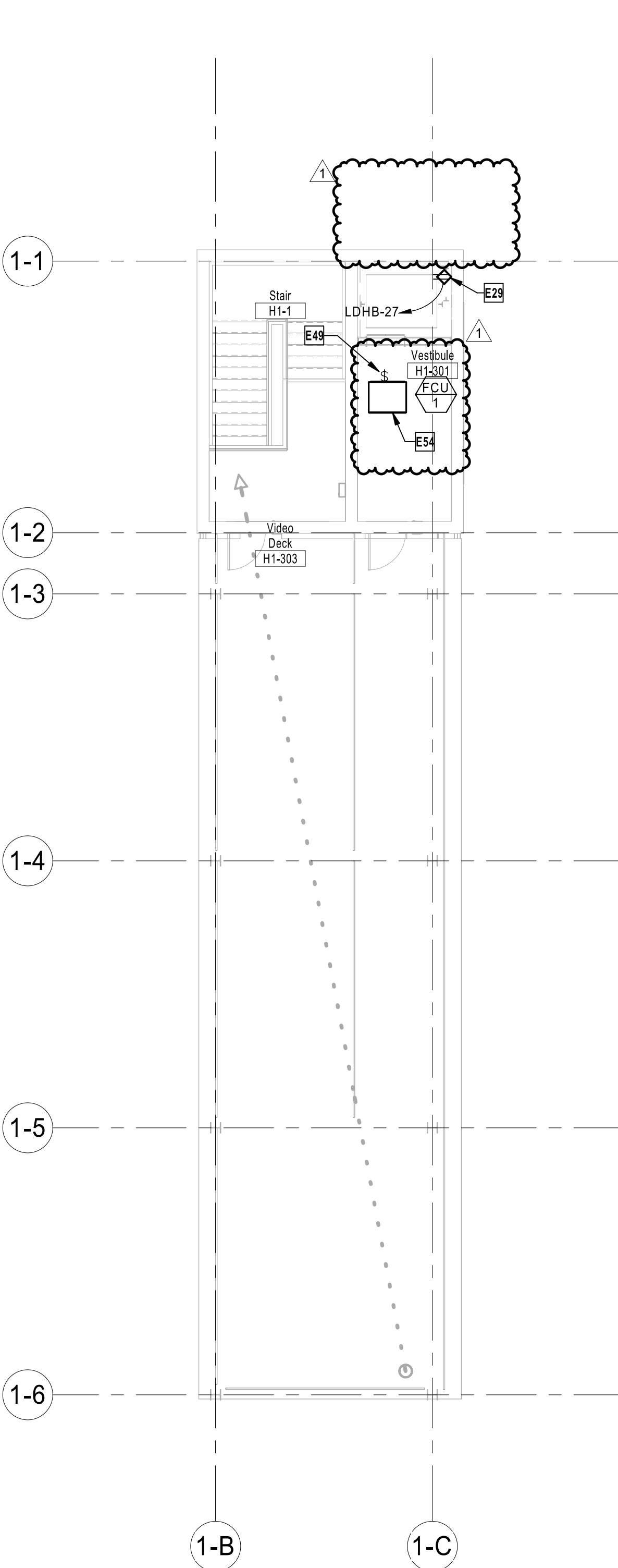
HOME PRESS BOX -
EQUIPMENT
CONNECTION PLANS

H-E113

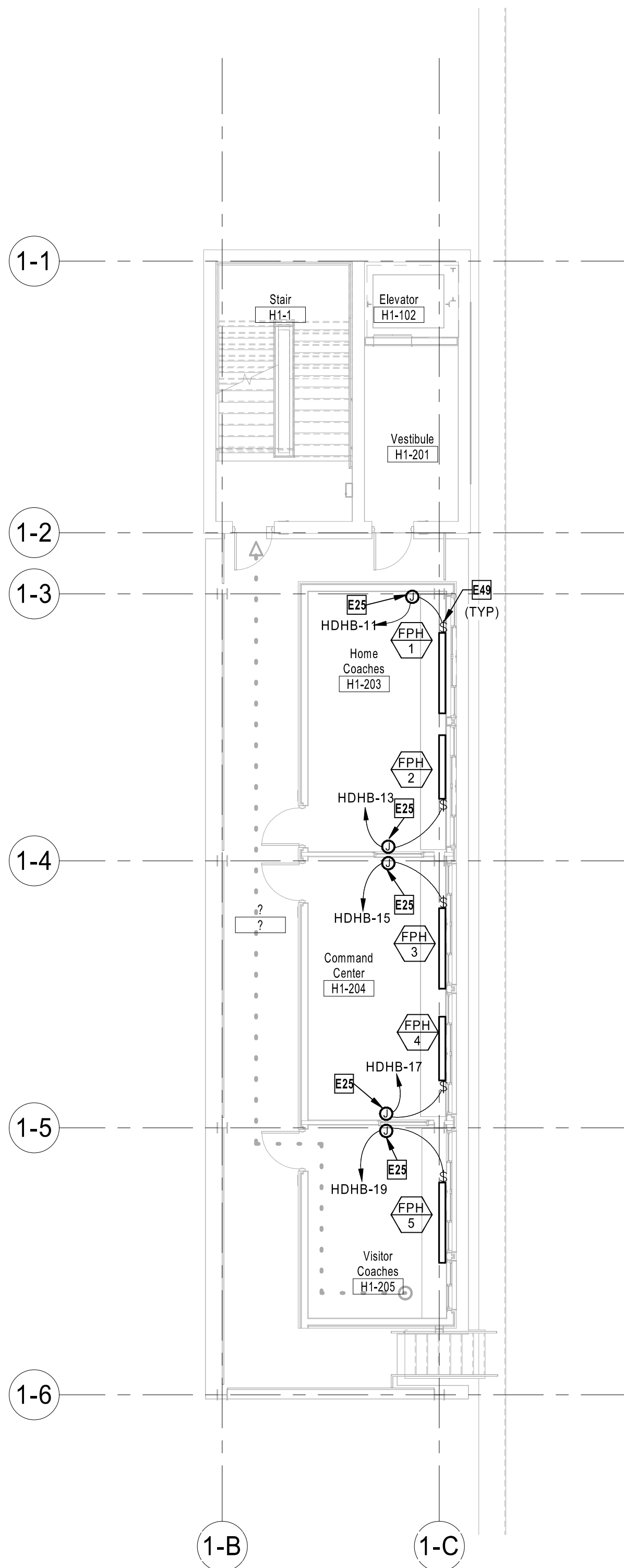
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ELECTRICAL PLAN NOTES:

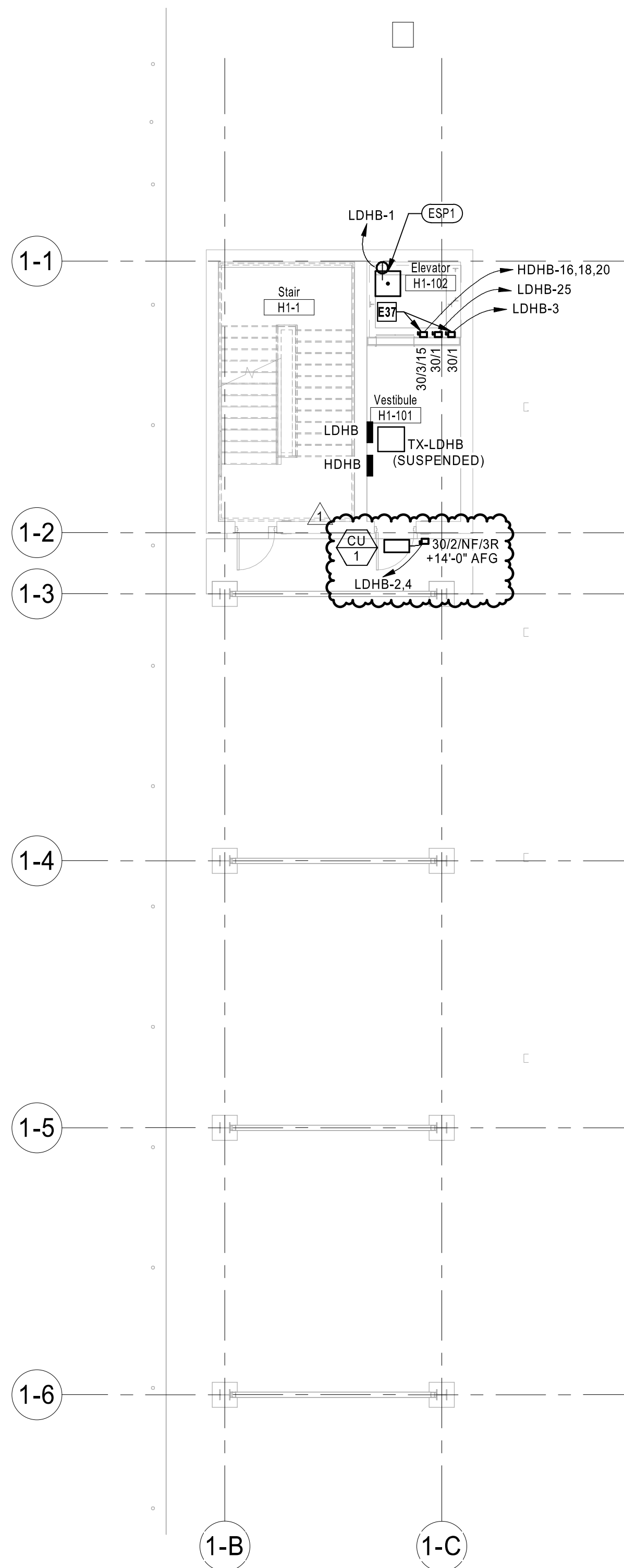
- E26 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER LENGTH WITH OWNER.
- E29 MAINTENANCE RECEPTACLE LOCATED AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR.
- E37 POWER CONNECTION FOR ELEVATOR, CAB LIGHTING, AND CAB HVAC. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET **PAVILION FOR MORE INFORMATION.**
- E54 CU-1/FCU-1 EQUIPMENT CONTAINS A SINGLE POINT OF CONNECTION AT CU-1. PROVIDE CONDUIT FOR CONNECTION BETWEEN FCU-1 AND CU-1 FOR EQUIPMENT INTERCONNECTION SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.



③ EQUIPMENT CONNECTION LEVEL 3 PLAN - HOME PRESS BOX
1/8" = 1'-0"



② EQUIPMENT CONNECTION LEVEL 2 PLAN - HOME PRESS BOX
1/8" = 1'-0"



① EQUIPMENT CONNECTION PLAN - HOME PRESS BOX
1/8" = 1'-0"

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REVISIONS

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| 1 | Addendum 3 | 10.23.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME GATEWAY -
LIGHTING RCP

H-E121

BID SET

ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 1 ON SHEET H-E700 UNLESS OTHERWISE NOTED.

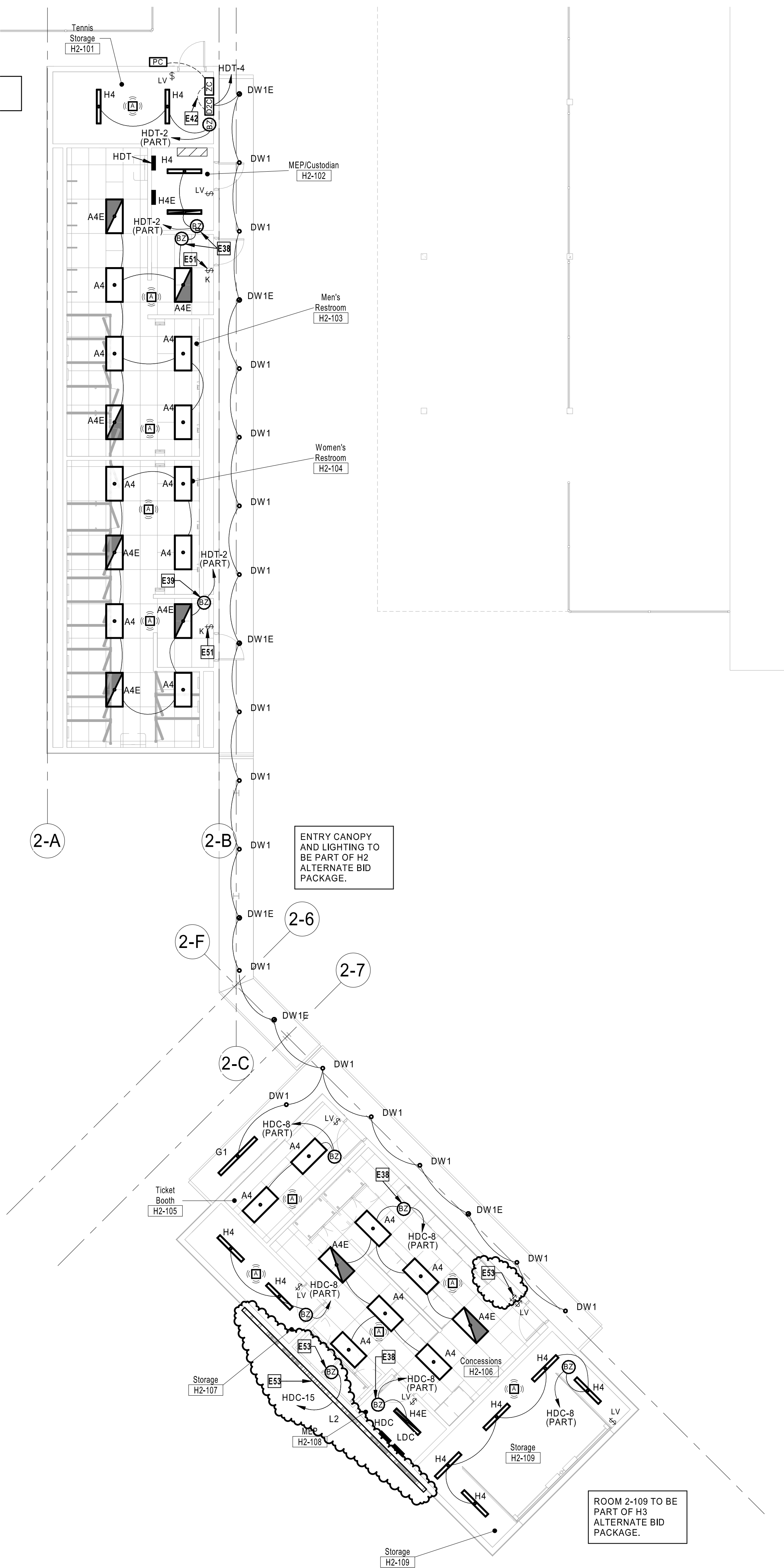
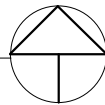
ELECTRICAL PLAN NOTES:

- E38 LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 3 ON SHEET H-E700 FOR LIGHTING CONTROL INFORMATION.
- E39 LIGHTING CONTROL DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 2 ON SHEET H-E700 FOR LIGHTING CONTROL INFORMATION.
- E42 CONNECT LOW VOLTAGE WIRE TO ZONE CONTROLLER IN ROOM 2-104 TO PROVIDE PHOTO CELL AND TIME CLOCK CONTROL. REFER TO DETAIL 4 ON SHEET H-E700 FOR MORE INFORMATION.

E41 PROVIDE KEYPAD SWITCH ON LOAD SIDE OF POWER PACK

E53 CONCESSION STAND ILLUMINATED SIGN. COORDINATE EXACT MOUNTING LOCATION, EXACT MOUNTING HEIGHT AND INSTALLATION REQUIREMENTS WITH OWNER, SIGNAGE SHOP DRAWINGS, LIGHTING MANUFACTURERS SPECIFICATIONS AND ARCHITECT/ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK. CONTROL SIGN VIA SLAVE POWER PACK AND LOW VOLTAGE AND CONCESSIONS ROOM H2-108 OCCUPANCY SENSORS. PROVIDE LINE VOLTAGE SWITCH AFTER POWER PACK IN SERIES WITH ILLUMINATED SIGN TO ACT AS A MASTER OVERRIDE SWITCH.

1 HOME GATEWAY - LIGHTING RCP
1/8" = 1'-0"



18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

P | N | M | L | K | J | I | H | G | F | E | D | C | B | A

0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18'

Lee's Summit R7 District
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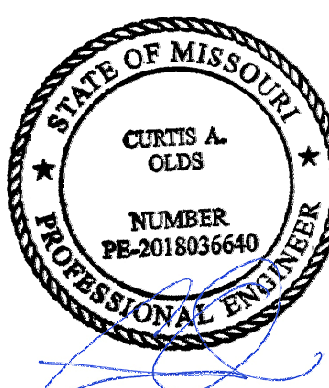
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PROJECT NO: 0119-0101
DATE: September 28, 2020

HOME GATEWAY -
ELECTRICAL PLANS

H-E122

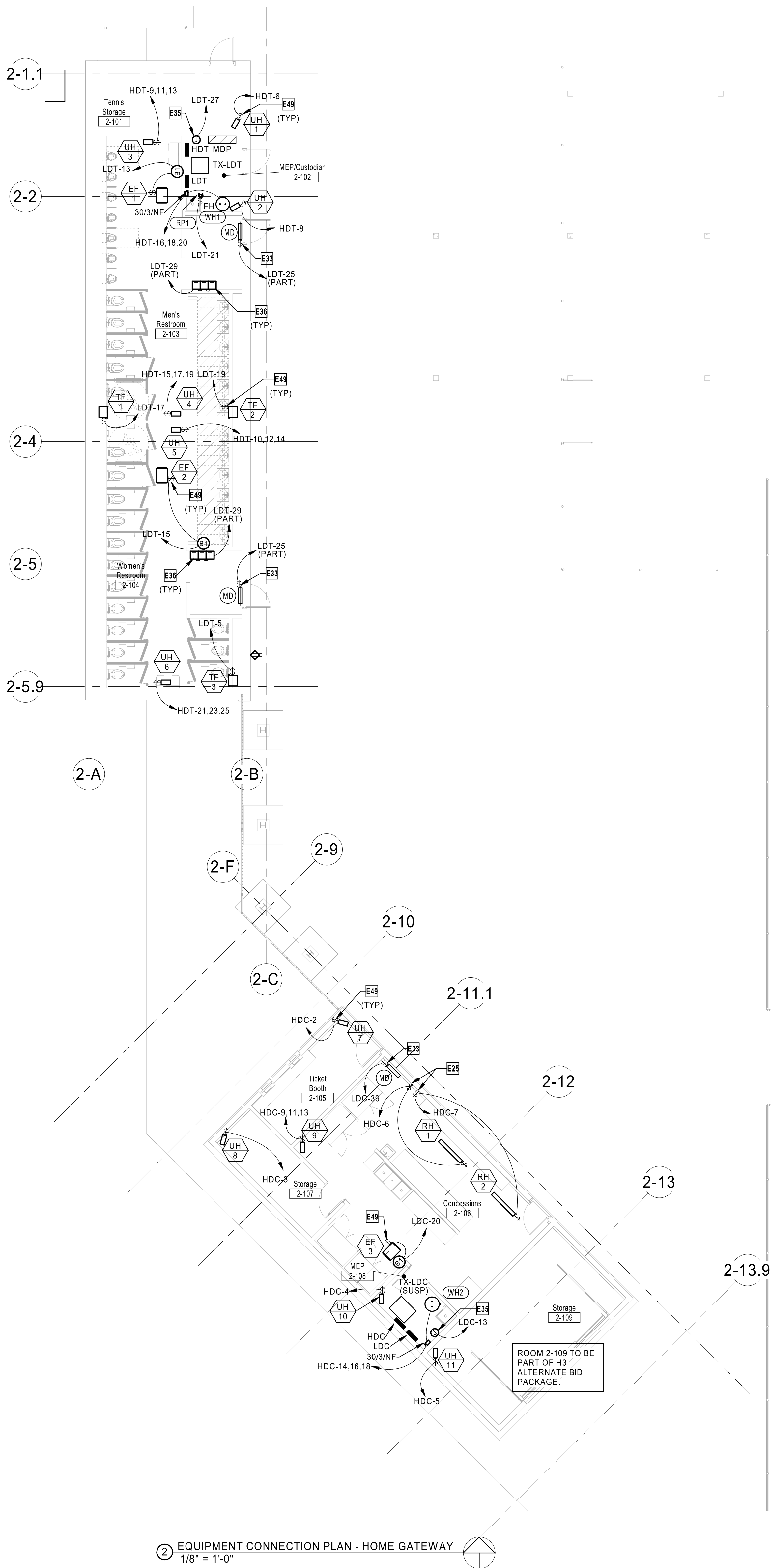
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ELECTRICAL GENERAL NOTES:

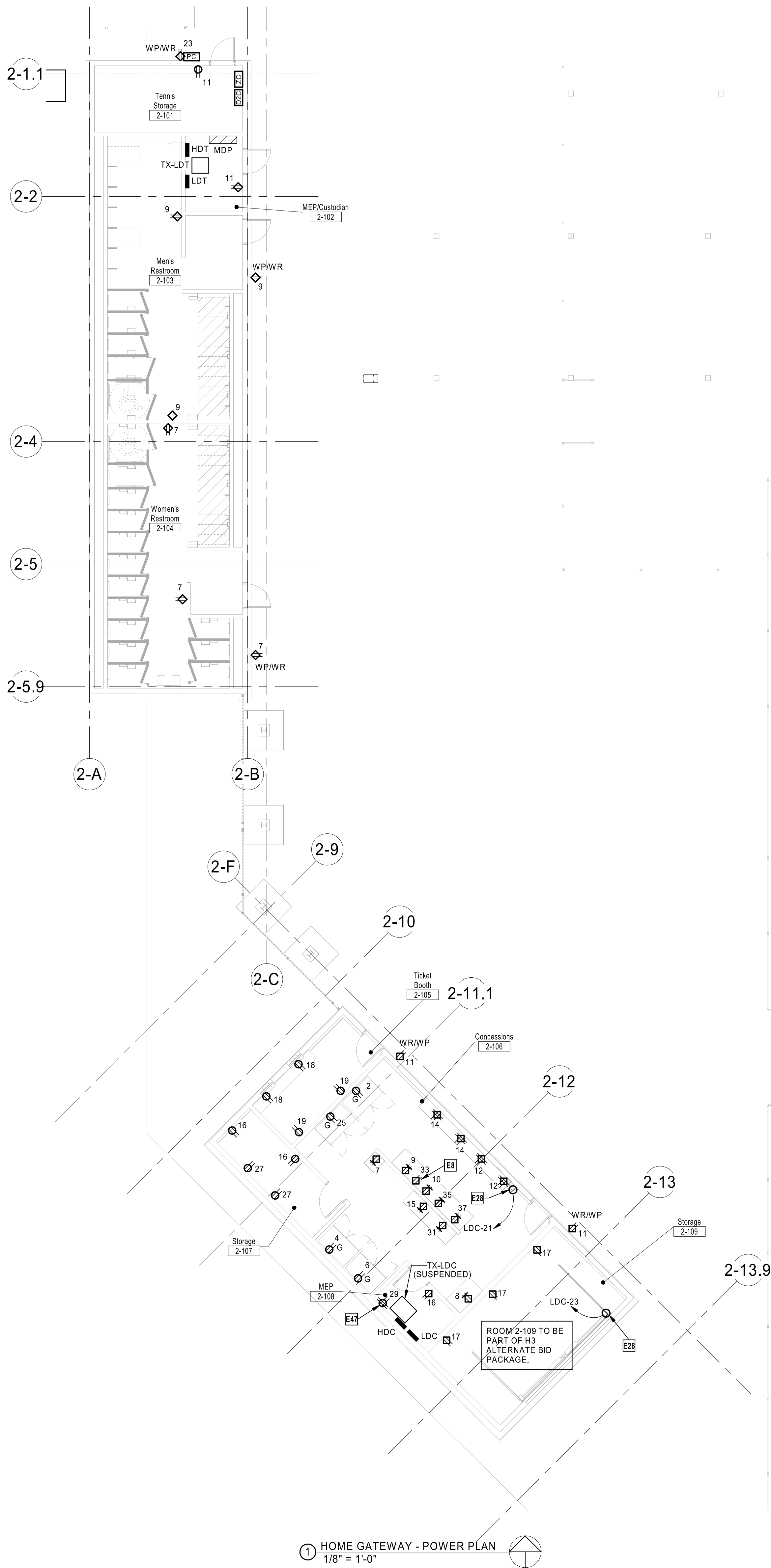
1. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.
2. REFER TO DETAIL 2 AND 3 ON SHEET H-E700 FOR EXHAUST FAN CONTROL DETAILS.

ELECTRICAL PLAN NOTES:

- E8 COORDINATE LOCATION OF MICROWAVE RECEPTACLE WITH OWNER PRIOR TO ROUGH-IN.
- E25 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER LENGTH WITH OWNER.
- E28 POWER CONNECTION TO OVERHEAD COILING DOOR. COORDINATE POWER REQUIREMENTS WITH SELECTED MANUFACTURER. COORDINATE CONTROLS WITH OWNER AND MANUFACTURER PRIOR TO ROUGH-IN.
- E33 CONTRACTOR TO PROVIDE 120V CONTROL POWER FOR LOUVER MOTOR OPERATED DAMPERS. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E35 POWER CONNECTION TO DDC CONTROL PANEL. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER. REFER TO SHEET H-M121 FOR EXACT LOCATION.
- E36 POWER CONNECTION TO LOW VOLTAGE TRANSFORMER FOR PLUMBING FIXTURE. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
- E47 POWER CONNECTION FOR IT RACK. COORDINATE FINAL LOCATION WITH IT INSTALLER.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET H-M600 FOR MORE INFORMATION.



2 EQUIPMENT CONNECTION PLAN - HOME GATEWAY
1/8" = 1'-0"



1 HOME GATEWAY - POWER PLAN
1/8" = 1'-0"

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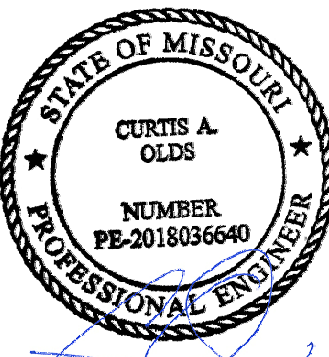
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| 1 | Addendum 1 | 10.23.2020 |

PROJECT NO: 0119-0101
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VISITOR TICKET BOOTH
- ELECTRICAL PLANS

H-E131

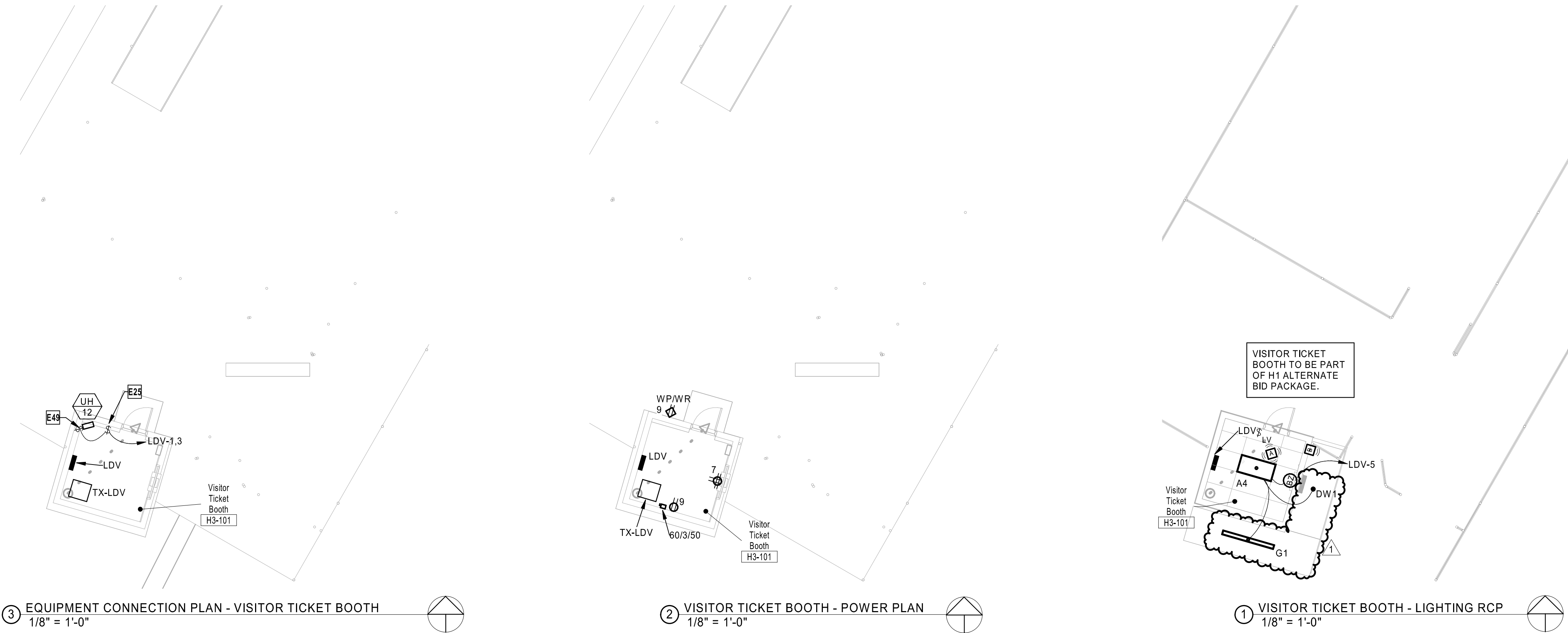
BID SET

ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 208/120V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.
3. LIGHTING CONTROL DEVICES SHALL CONTROL ALL LIGHTING ASSOCIATED WITH THE TICKET BOOTH. REFER TO DETAIL 1 ON SHEET H-E700 FOR MORE INFORMATION.

ELECTRICAL PLAN NOTES:

- E25 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER LENGTH WITH OWNER.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET H-M600 FOR MORE INFORMATION.



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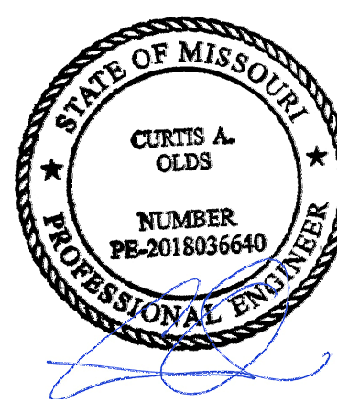
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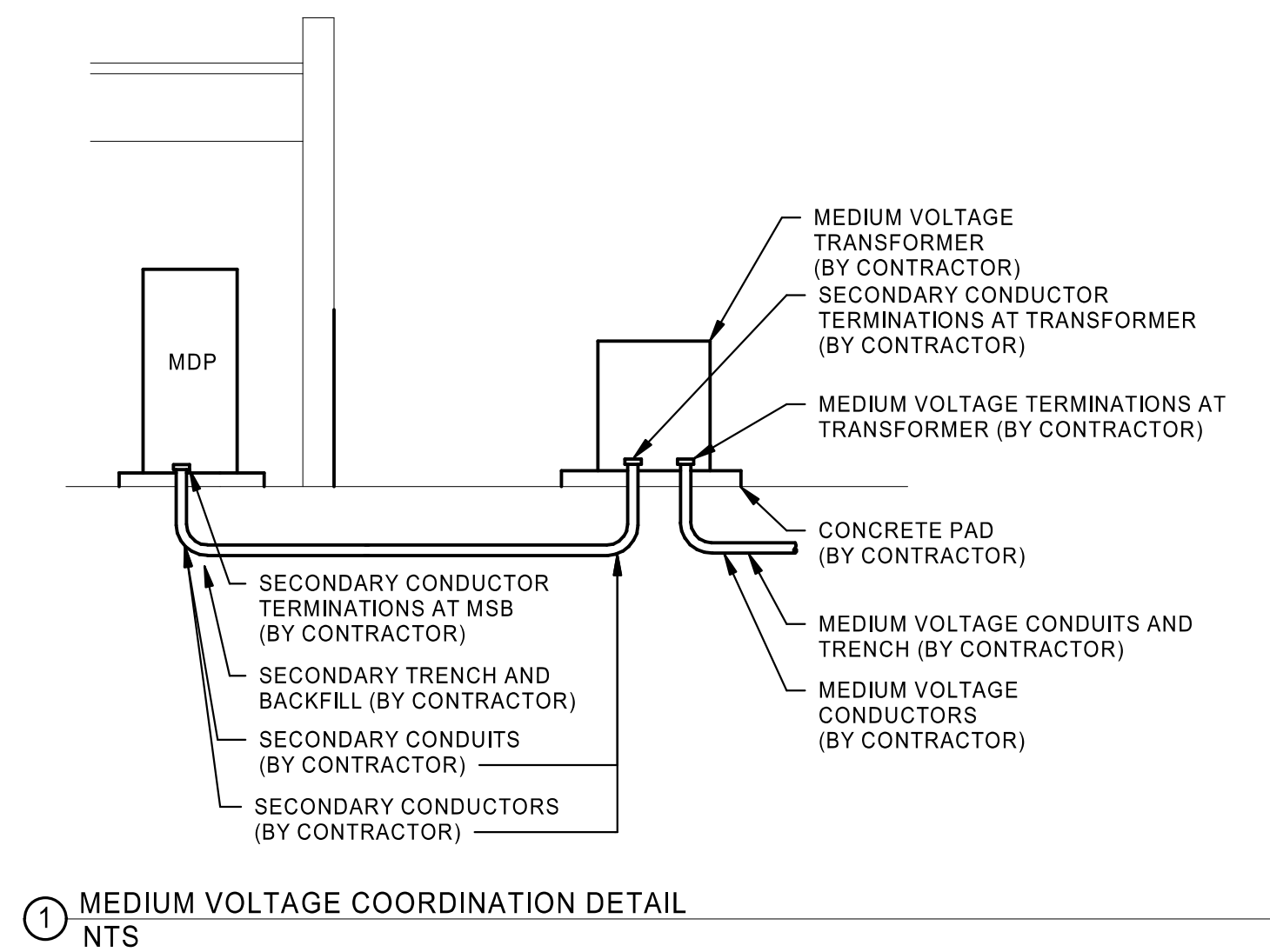
ELECTRICAL DETAILS

H-E500

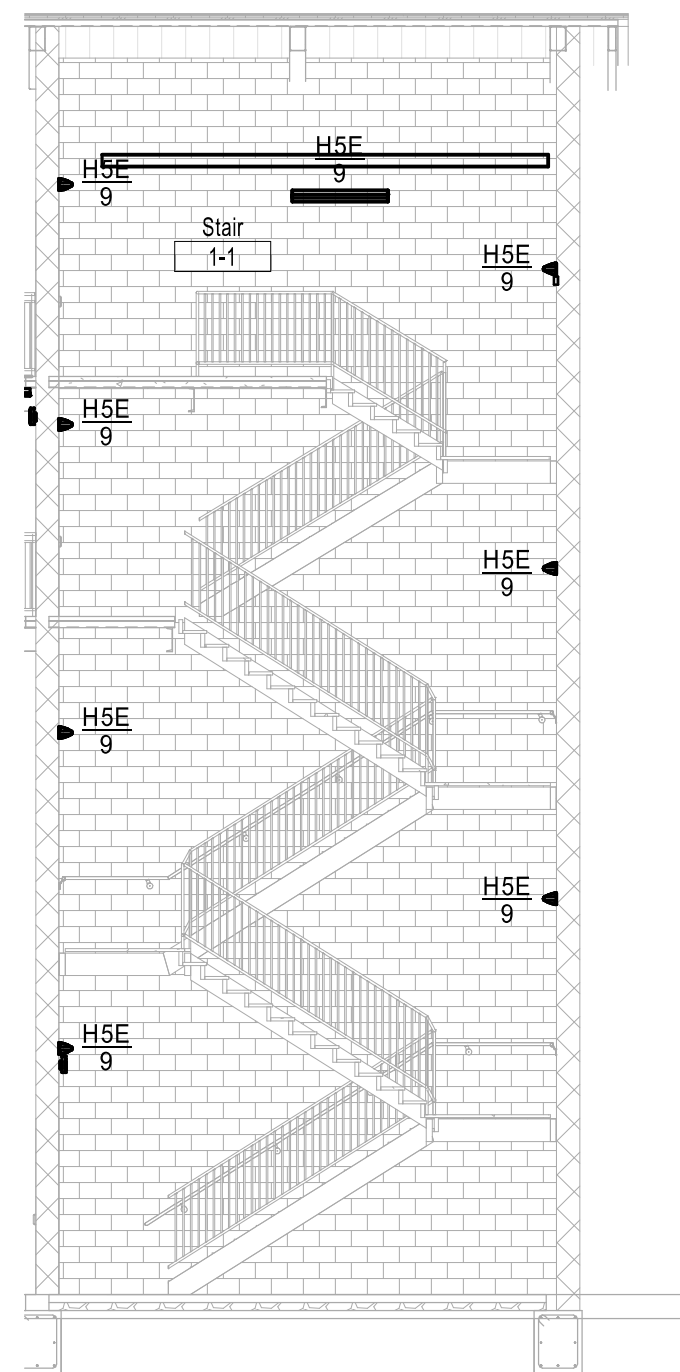
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ELECTRICAL GENERAL NOTES:

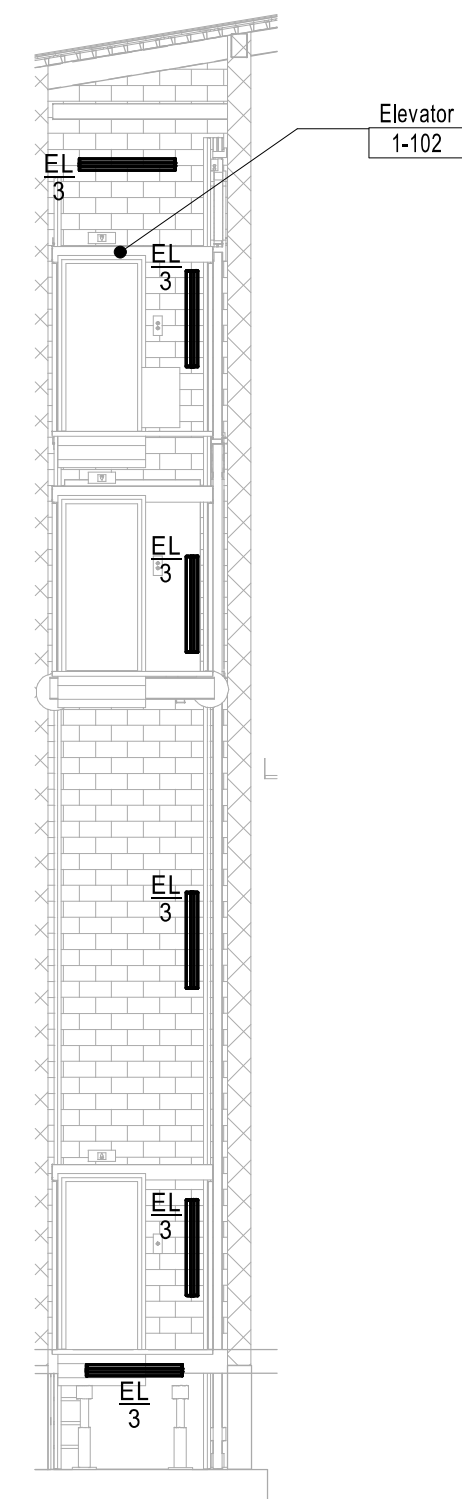
1. LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. LIGHTING CONTROLS DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 1 ON SHEET H-E700.
3. H5/H5E FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.



① MEDIUM VOLTAGE COORDINATION DETAIL
NTS



③ STAIR LIGHTING
1/8" = 1'-0"



② ELEVATOR LIGHTING
1/8" = 1'-0"

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

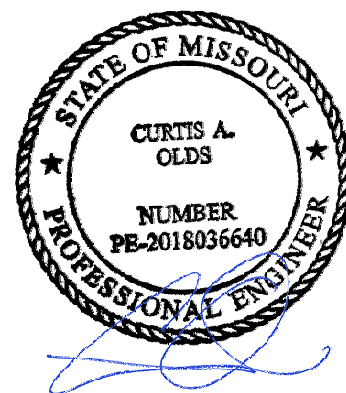
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000



Sep 25 2020

REVISIONS

Number Description Date

PROJECT NO: 0119-0101
DATE: September 28, 2020


ELECTRICAL
SCHEDULES

H-E601

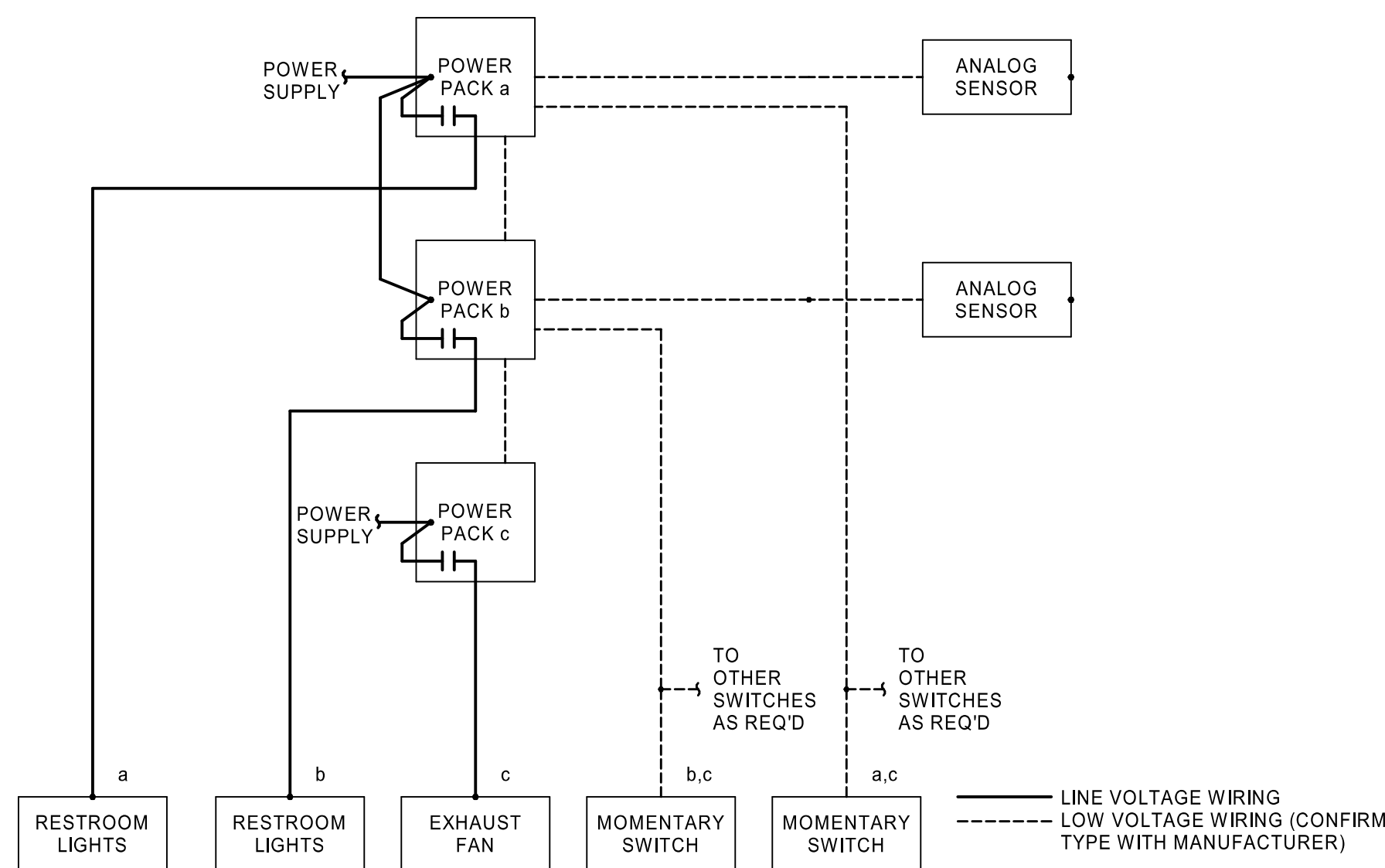
BID SET

| PANELBOARD: HDT (NEW) | | | | | | | | | | EQUIPMENT GROUND BUS | | | | | | | | | |
|--|-------------------------------|-----------|-------|-----------|---------|---|----------|---------|----------|--|----------|-----------|-------|-----------|-------------------------|-------------------------|----|--|--|
| BUS AMPS: 125A MAIN SIZE/TYPE: 125A M.C.B. VOLTS/PHASE: 480Y/277 V 3P/4W SUPPLIED BY: MDP | | | | | | | | | | FAULT CURRENT: REFER TO ONE-LINE DIAGRAM AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: TENNIS MOUNTING: SURFACE LOCATION: MEP/Custodian 2-102 | | | | | | | | | |
| | | | | | | | | | | LINE-SIDE LUGS: MECHANICAL | | | | | | | | | |
| CKT NO. | DESCRIPTION | LOAD TYPE | NOTES | WIRE SIZE | BKR AMP | P | PHASE A | PHASE B | PHASE C | P | BKR AMP | WIRE SIZE | NOTES | LOAD TYPE | DESCRIPTION | CKT NO. | | | |
| 1 | PWR - UH TENNIS STORAGE 2-101 | U | | 12 | 20 | 1 | 3000 | 564 | | 1 | 20 | 12 | | L | LTS - RESTROOM BUILDING | 2 | | | |
| 3 | | | | | | | | 2728 | 478 | | 1 | 20 | 12 | | LZ | LTS - EXTERIOR LIGHTING | 4 | | |
| 5 | TX-LDT | R Z M | | OL | 70 | 3 | | | 2682 | 3000 | 1 | 20 | 12 | | U | PWR - UH-1 | 6 | | |
| 7 | | | | | | | 2232 | 3000 | | | 1 | 20 | 12 | | U | PWR - UH-2 | 8 | | |
| 9 | | | | | | | | 2500 | 1667 | | | | | | | | 10 | | |
| 11 | PWR - UH-3 | U | | 12 | 20 | 3 | | | 2500 | 1667 | 3 | 20 | 12 | | U | PWR - UH-5 | 12 | | |
| 13 | | | | | | | 2500 | 1667 | | | | | | | | | 14 | | |
| 15 | | | | | | | | 1667 | 5000 | | | | | | | | 16 | | |
| 17 | PWR - UH-4 | U | | 12 | 20 | 3 | | | 1667 | 5000 | 3 | 25 | 10 | | U | WH1 | 18 | | |
| 19 | | | | | | | 1667 | 5000 | | | | | | | | | 20 | | |
| 21 | | | | | | | | 2500 | 0 | | 1 | 20 | | | SPARE | 22 | | | |
| 23 | PWR - UH-6 | U | | 12 | 20 | 3 | | | 2500 | 0 | 1 | 20 | | | SPARE | 24 | | | |
| 25 | | | | | | | 2500 | 0 | | | 1 | 20 | | | SPARE | 26 | | | |
| 27 | SPARE | | | 20 | 1 | | | 0 | 0 | | 1 | 20 | | | SPARE | 28 | | | |
| 29 | SPARE | | | 20 | 1 | | | | 0 | 0 | 1 | 20 | | | SPARE | 30 | | | |
| 31 | SPARE | | | 20 | 1 | | 0 | 0 | | | 1 | 20 | | | SPARE | 32 | | | |
| 33 | SPARE | | | 20 | 1 | | | 0 | 0 | | 1 | 20 | | | SPARE | 34 | | | |
| 35 | SPARE | | | 20 | 1 | | | | 0 | 0 | 1 | 20 | | | SPARE | 36 | | | |
| 37 | SPARE | | | 20 | 1 | | 0 | 0 | | | 1 | 20 | | | SPARE | 38 | | | |
| 39 | SPARE | | | 20 | 1 | | | 0 | 0 | | 1 | 20 | | | SPARE | 40 | | | |
| 41 | SPARE | | | 20 | 1 | | | | 0 | 0 | 1 | 20 | | | SPARE | 42 | | | |
| TOTAL LOAD (VA): | | | | | | | 22129 VA | | 16539 VA | | 19015 VA | | | | | | | | |
| TOTAL AMPS: | | | | | | | 81 A | | 60 A | | 70 A | | | | | | | | |
| LOAD TYPE | | | | | | | | | | PANELBOARD TOTALS | | | | | | | | | |
| EXISTING LOAD (E) | | | | | | | | | | TOTAL CONNECTED LOAD | | | | | | | | | |
| COOLING (C) | | | | | | | | | | TOTAL NEC LOAD | | | | | | | | | |
| HEATING (H) | | | | | | | | | | TOTAL CONNECTED CURRENT | | | | | | | | | |
| LIGHTING (L) | | | | | | | | | | TOTAL NEC DEMAND CURRENT | | | | | | | | | |
| RECEPTACLES (R) | | | | | | | | | | | | | | | | | | | |
| MOTORS (M) | | | | | | | | | | | | | | | | | | | |
| SUPPLEMENTAL HEAT (U) | | | | | | | | | | | | | | | | | | | |
| MISC EQUIP (Z) | | | | | | | | | | | | | | | | | | | |
| REFRIGERATION (F) | | | | | | | | | | | | | | | | | | | |
| SIGN/DISPLAY (D) | | | | | | | | | | | | | | | | | | | |
| KITCHEN (K) | | | | | | | | | | | | | | | | | | | |
| LARGEST MOTOR | | | | | | | | | | | | | | | | | | | |
| SHOW WINDOW (W) | | | | | | | | | | | | | | | | | | | |
| TRACK LIGHTING | | | | | | | | | | | | | | | | | | | |

| PANELBOARD: LDT (NEW) | | | | | | | | | | EQUIPMENT GROUND BUS | | | | | | | | | |
|---|----------------------------|----------------|---------------|------------|---------|------------------|---------|---------|---------|--|---------|-----------|-------|----------------------|-------------|---------|--|--|--|
| BUS AMPS: 225A MAIN SIZE/TYPE: 150A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: HDT VIA TX-LDT | | | | | | | | | | FAULT CURRENT: REFER TO ONE-LINE DIAGRAM AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: TENNIS MOUNTING: SURFACE LOCATION: MEP/Custodian 2-102 | | | | | | | | | |
| | | | | | | | | | | LINE-SIDE LUGS: MECHANICAL | | | | | | | | | |
| CKT NO. | DESCRIPTION | LOAD TYPE | NOTES | WIRE SIZE | BKR AMP | P | PHASE A | PHASE B | PHASE C | P | BKR AMP | WIRE SIZE | NOTES | LOAD TYPE | DESCRIPTION | CKT NO. | | | |
| 1 | PWR - EF WOMENS RR 2-104 | M | | 12 | 20 | 1 | 696 | 0 | | 1 | 20 | | | SPARE | | 2 | | | |
| 3 | PWR - EF MENS RR 2-103 | M | | 12 | 20 | 1 | | 696 | 0 | 1 | 20 | | | SPARE | | 4 | | | |
| 5 | PWR - TF WOMENS RR | M | | 12 | 20 | 1 | | | 696 | 0 | 1 | 20 | | SPARE | | 6 | | | |
| 7 | RCPT - 2-104 GENERAL | R | | 12 | 20 | 1 | 540 | 0 | | 1 | 20 | | | SPARE | | 8 | | | |
| 9 | RCPT - 2-103 GENERAL | R | | 12 | 20 | 1 | | 540 | 0 | 1 | 20 | | | SPARE | | 10 | | | |
| 11 | RCPT - 2-101/102 GENERAL | R | | 12 | 20 | 1 | | | 360 | 0 | 1 | 20 | | SPARE | | 12 | | | |
| 13 | PWR - EF-1 | M | | 12 | 15 | 1 | 696 | 0 | | 1 | 20 | | | SPARE | | 14 | | | |
| 15 | PWR - EF-2 | M | | 12 | 15 | 1 | | 696 | 0 | 1 | 20 | | | SPARE | | 16 | | | |
| 17 | PWR - TF-1 | M | | 12 | 15 | 1 | | | 696 | 0 | 1 | 20 | | SPARE | | 18 | | | |
| 19 | PWR - TF-2 | M | | 12 | 15 | 1 | 696 | 0 | | 1 | 20 | | | SPARE | | 20 | | | |
| 21 | PWR - RECIRC PUMP | M | | 12 | 15 | 1 | | 500 | 0 | 1 | 20 | | | SPARE | | 22 | | | |
| 23 | RCPT - 2-101 EXTERIOR | R | | 12 | 20 | 1 | | | 180 | 0 | 1 | 20 | | SPARE | | 24 | | | |
| 25 | PWR - RR MOTORIZED DAMPERS | M | | 12 | 20 | 1 | 100 | 0 | | 1 | 20 | | | SPARE | | 26 | | | |
| 27 | PWR - 2-102 DDC CONTROLS | Z | | 12 | 20 | 1 | | 250 | 0 | 1 | 20 | | | SPARE | | 28 | | | |
| 29 | PWR - RR AUTO FAUCETS | Z | | 12 | 20 | 1 | | | 300 | 0 | 1 | 20 | | SPARE | | 30 | | | |
| 31 | SPARE | | | 20 | 1 | | 0 | 0 | | 1 | 20 | | | SPARE | | 32 | | | |
| 33 | SPARE | | | 20 | 1 | | | 0 | 0 | 1 | 20 | | | SPARE | | 34 | | | |
| 35 | SPARE | | | 20 | 1 | | | | 0 | 0 | 1 | 20 | | SPARE | | 36 | | | |
| 37 | SPARE | | | 20 | 1 | | 0 | 0 | | 1 | 20 | | | SPARE | | 38 | | | |
| 39 | SPARE | | | 20 | 1 | | | 0 | 0 | 1 | 20 | | | SPARE | | 40 | | | |
| 41 | SPARE | | | 20 | 1 | | | | 0 | 0 | 1 | 20 | | SPARE | | 42 | | | |
| TOTAL LOAD (VA): | | | | | | | 2728 VA | | 2682 VA | | 2232 VA | | | | | | | | |
| TOTAL AMPS: | | | | | | | 23 A | | 23 A | | 19 A | | | | | | | | |
| LOAD TYPE | | CONNECTED LOAD | DEMAND FACTOR | NEC DEMAND | | PANELBOARD NOTES | | | | | | | | PANELBOARD TOTALS | | | | | |
| EXISTING LOAD (E) | | 0 VA | 100% | 0 VA | | | | | | | | | | TOTAL CONNECTED LOAD | | 7642 VA | | | |
| COOLING (C) | | 0 VA | 0% | 0 VA | | | | | | | | | | TOTAL NEC LOAD | | 7816 VA | | | |
| HEATING (H) | | 0 VA | 100% | 0 VA | | | | | | | | | | | | | | | |
| LIGHTING (L) | | 0 VA | 125% | 0 VA | | | | | | | | | | | | | | | |
| RECEPTACLES (R) | | 1620 VA | 100% | 1620 VA | | | | | | | | | | | | | | | |
| MOTORS (M) | | 4776 VA | 100% | 4776 VA | | | | | | | | | | | | | | | |
| SUPPLEMENTAL HEAT (U) | | 0 VA | 100% | 0 VA | | | | | | | | | | | | | | | |
| MISC EQUIP (Z) | | 550 VA | 100% | 550 VA | | | | | | | | | | | | | | | |
| REFRIGERATION (F) | | 0 VA | 100% | 0 VA | | | | | | | | | | | | | | | |
| SIGNAL/PLAY (D) | | 0 VA | 125% | 0 VA | | | | | | | | | | | | | | | |
| KITCHEN (K) | | 0 VA | 100% | 0 VA | | | | | | | | | | | | | | | |
| LARGEST MOTOR | | 696 VA | 125% | 870 VA | | | | | | | | | | | | | | | |
| SHOW WINDOW (W) | | 0 VA | 125% | 0 VA | | | | | | | | | | | | | | | |
| TRACK LIGHTING | | 0 VA | 100% | 0 VA | | | | | | | | | | | | | | | |

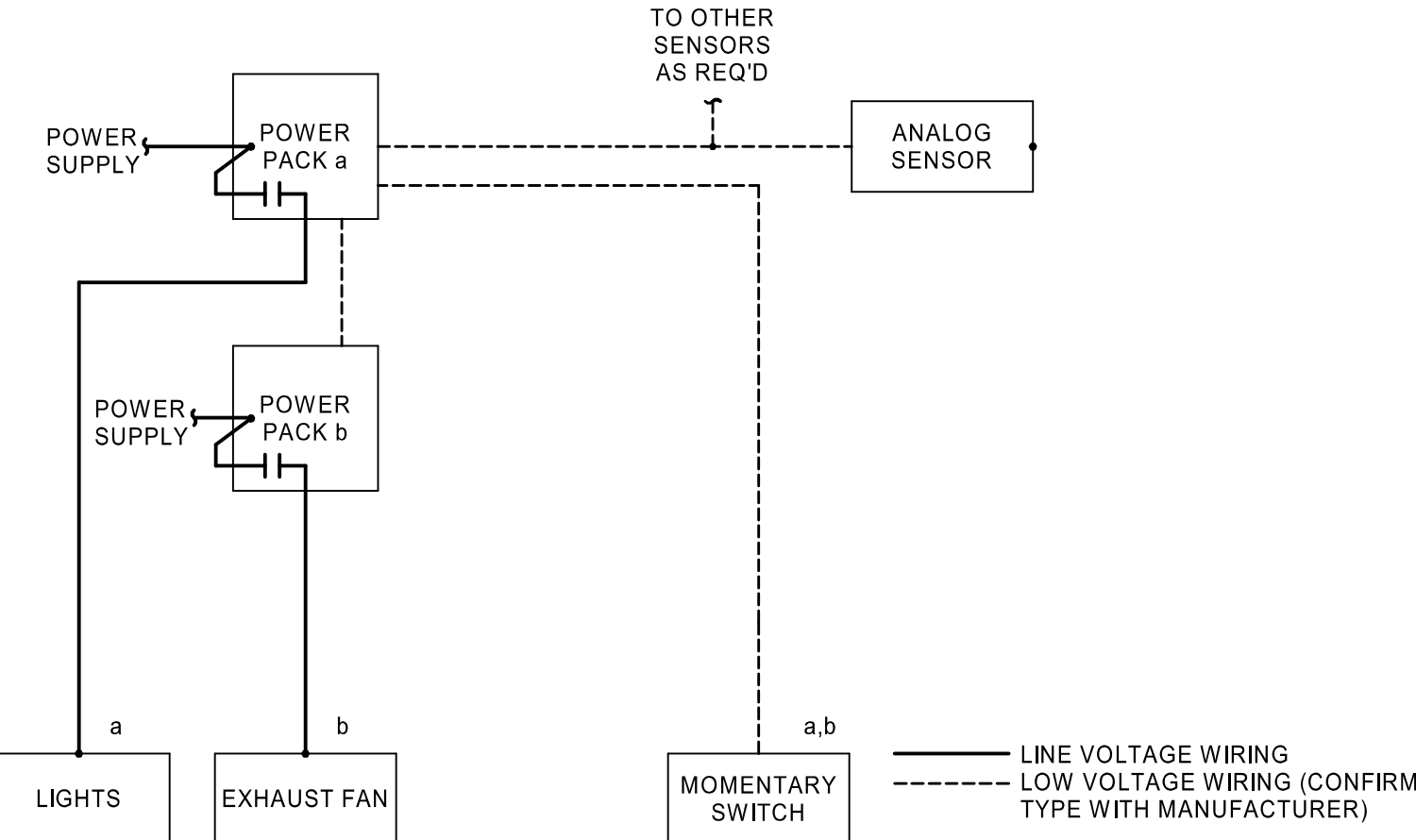
| LIGHTING CONTROL DEVICE SCHEDULE | | | | | | |
|--|---------------------------|--------------------------------|--|--|----------|-------|
| STAND-ALONE LOW-VOLTAGE LIGHTING CONTROL SYSTEMS | | | | | | |
| STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS | | | | | | |
| SYMBOL TAG | MANUFACTURER MODEL/SERIES | ALTERNATE MANUFACTURER | DEVICE DESCRIPTION | COVERAGE (W X D) / PIR MAJOR 36° Ø PIR MINOR 25° Ø ULT 36" X 36" | VOLTAGE | NOTES |
|  DT-300 | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, 360 DEGREE COVERAGE, LOW VOLTAGE, ISOLATED RELAY. | | 24 | |
|  CB-100 | LEGRAND | ACUTY, COOPER HUBBELL | CEILING/WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR, 90 DEGREE COVERAGE, LOW VOLTAGE, GASKETED AND WATERTIGHT. RATED FOR -40 DEGREES FAHRENHEIT. | MAJOR 50" Ø MINOR 25" Ø | 24 | |
| STAND-ALONE LOW-VOLTAGE PHOTOELECTRIC SWITCHES | | | | | | |
| SYMBOL TAG | MANUFACTURER MODEL/SERIES | ALTERNATE MANUFACTURER | DEVICE DESCRIPTION | | VOLTAGE | NOTES |
|  EM-24D2 | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | EXTERIOR LOW-VOLTAGE PHOTOELECTRIC SWITCH, FACE SENSOR NORTH AND ORIENT VERTICALLY, 0-15 FC. | | 24 | |
| STAND-ALONE LOW-VOLTAGE POWER PACKS | | | | | | |
| SYMBOL TAG | MANUFACTURER MODEL/SERIES | ALTERNATE MANUFACTURER | DEVICE DESCRIPTION | | VOLTAGE | NOTES |
|  BZ-250 | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS, 20A LOAD, (1) RELAY, MANUAL- AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 27V. OUTPUT: 225mA AT 24V, PLENUM RATED. | | 120/ 277 | |
|  C SERIES | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS, 20A LOAD, (2) RELAYS, MANUAL- AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 27V. OUTPUT: 225mA AT 24V, PLENUM RATED. CONTRACTOR TO PROVIDE CORRECT VOLTAGE FOR APPLICATION. | | 120/ 277 | |
|  LMCRC-212 | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | ROOM CONTROLLER FOR LOW VOLTAGE OCCUPANCY SENSORS, 20A LOAD, (2) RELAY, MANUAL AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 27V. OUTPUT: 225mA AT 24V, PLENUM RATED. 0-10V DIMMING CONTROL. | | 120/ 277 | |
| STAND-ALONE LOW-VOLTAGE SWITCHES | | | | | | |
| SYMBOL TAG | MANUFACTURER MODEL/SERIES | ALTERNATE MANUFACTURER | DEVICE DESCRIPTION | | VOLTAGE | NOTES |
|  DCC2 | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | MOMENTARY 1-BUTTON DECORATOR SWITCH FOR MANUAL ON/OFF CONTROL OF STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS, INTEGRAL LED ILLUMINATES WHEN LOAD IS ON. | | 24 | |
|  LMSV-104 | LEGRAND | ACUTY, COOPER HUBBELL, LEVITON | 4-BUTTON LOW VOLTAGE SWITCH FOR ON/OFF AND DIMMING CONTROL OF 2 RELAYS. | | 24 | |
| AUXILIARY NETWORK LIGHTING EQUIPMENT | | | | | | |
| SYMBOL TAG | MANUFACTURER MODEL/SERIES | ALTERNATE MANUFACTURER | DEVICE DESCRIPTION | | VOLTAGE | NOTES |
|  LMCZ-301 | LEGRAND | ACUTY, CRESTRON ETC, HUBBELL | ZONE CONTROLLER, ASTRONOMIC TIMECLOCK, 99 LIGHTING GROUPS, BACNET MS/TP COMPATIBLE, (2) RJ45 PORTS, SURFACE MOUNTED, PLENUM RATED, PROVIDE DLM 24V POWER BOOSTERS AS REQUIRED PER SYSTEM DESIGN. | | 120/ 277 | |
| GENERAL NOTES: A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER EQUIVALENT MANUFACTURER COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA. B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE. C. LIGHTING CONTROL PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. D. VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT. E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN. UNO. CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING. F. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER. G. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS. H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS. | | | | | | |

| LIGHT FIXTURE SCHEDULE | | | | | | | | | | |
|------------------------|-----------------|--|--|------------------------|-------|---------|-------------|----------|---|-------|
| TYPE | MANUFACTURER | MODEL | APPROVED EQUIVALENTS | LAMPING / LIGHT SOURCE | TYPE | VOLTAGE | INPUT WATTS | INPUT VA | DESCRIPTION | NOTES |
| A4 | HE WILLIAMS | 50-"CEILING"-2-4-L33-80-35-AF12125-DIM-UNV | COLUMBIA LIGHTING LLT24 SERIES LITHONIA LIGHTING GTL SERIES | LED 3500K 80CRI | 0-10V | UNV | 25 | 28 | 2x4" RECESSED LED TROFFER, 3300 LUMEN | |
| A4E | HE WILLIAMS | 50-"CEILING"-2-4-L33-80-35-AF12125-EM/10W-DIM-UNV | | LED 3500K 80CRI | 0-10V | UNV | 25 | 28 | SAME AS A4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES. | |
| DW1 | COOPER LIGHTING | LSR2B-15-WFL55-80-35-D010-CANOPY | HUBBELL LIGHTING PRESCOLITE LTC-3RDW COTHAM 4" INCITO SERIES LITHONIA LIGHTING LDM4CYL SERIES LITHONIA LIGHTING GTL SERIES | LED 3500K 80CRI | 0-10V | UNV | 18 | 20 | 4.5" SURFACE MOUNTED WET LOCATION LISTED DOWNLIGHT, 1500 LUMEN, 3500K, 54" BEAM. | |
| DW1E | COOPER LIGHTING | LSR2B-15-WFL55-80-35-D010-CANOPY EM DRIVER: ASSURANCE EM LIGHTING L16-C | | LED 3500K 80CRI | 0-10V | UNV | 18 | 20 | SAME AS DW1 WITH INTEGRAL 7W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES | |
| EL | HE WILLIAMS | 96-4-L62-80-35-HIAFR-EM/10W-WET/1-DRV-UNV | COLUMBIA LIGHTING LXEM LITHONIA LIGHTING FEM LED SERIES | LED 4000K 80CRI | 0-10V | UNV | 45 | 50 | 4' LINEAR FOR ELEVATOR SHAFT. WET LOCATION LISTED, 6200 LUMEN, 4000K | |
| F4S | FOCAL POINT | SEEM 4 FSM4LS SERIES | LITECONTROL MOD 4 PENDANT LED AL-P-D SERIES 3G LIGHTING 3G-4PLD PINNACLE ARCHITECTURAL LIGHTING EDGE EX4D SERIES | LED 3500K 80 CRI | 0-10V | UNV | 26 | 29 | 4' SUSPENDED LINEAR LED, 2810 LUMEN, BOTTOM OF FIXTURE TO BE 8'-4" AFF. | |
| G1 | LUMENWERX | VIAWETASYS-PYC-HLO-LED-80-500-35-6-UNV-D1-1-GSM TF-"COLOR" | LITECONTROL MOD 4 PENDANT LED AL-P-D SERIES AXIS LIGHTING - WET BEAM 4 LED SURFACE SERIES | LED 3500K 80CRI | 0-10V | UNV | 30 | 33 | 6' RECESSED LINEAR WITH 500 LM/FT AND ASYMMETRICAL DISTRIBUTION. SUITABLE FOR WET LOCATION. | |
| H4 | HE WILLIAMS | 75L-4-L50-8-35-AF12125-DIM-UNV | COLUMBIA LIGHTING MPS SERIES LITHONIA LIGHTING ZL1D SERIES | LED 3500K 80CRI | 0-10V | UNV | 32 | 36 | 4' LINEAR SUSPENDED/WALL MOUNTED FIXTURE, 5000 LUMEN. | |
| H4E | HE WILLIAMS | 75L-4-L50-8-35-AF12125-EM/10WLP-DIM-UNV | | LED 3500K 80CRI | 0-10V | UNV | 32 | 36 | SAME AS H4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES. | |
| H5E | HE WILLIAMS | 75L-4-L50-8-35-AF12125-EM/10WLP-DIM-UNV- OCCWS-FSP-21-L2-120/277 | | LED 3500K 80CRI | 0-10V | UNV | 32 | 36 | SAME AS H4 WITH INTEGRAL OCCUPANCY SENSOR AND 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES. | |
| HWE | HE WILLIAMS | WVP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV-EM/10WC WVP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV-EM/10WC WVP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV-EM/10WC | HUBBELL LIGHTING SLING SERIES LITHONIA LIGHTING WGE2 LED SERIES | LED 3500K 80CRI | 0-10V | UNV | 70 | 77 | WALL MOUNTED LED SCOSCE, WET LOCATION LISTED, TFT DISTRIBUTION, 6000 LUMEN, INTEGRAL 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES. MOUNT 20'-0" AFF. | |
| L1 | LUMINI | WVP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV DRIVER: PS010V-96-24-LIN | GENLED ACOLYTE RIBBONLYTE 6.0 CALL LED 8000 SERIES CITRAN SW245/0.5 SERIES | LED 3500K 80CRI | 0-10V | UNV | 9 | 10 | WET LOCATION RATED 24V LED TAPE LIGHT WITH REMOTE DAMP LOCATION RATED 96WATT, 277 - 24V LED DRIVER, NARROW DISTRIBUTION, 3000K, 706 LUMEN/FT, 9 W/FT. PROVIDE CHANNEL AND ADDITIONAL WET LOCATION RATED FITTINGS FOR A FULLY FUNCTIONING TAPE LIGHTING SYSTEM. PROVIDE LUMINI CLASS 2 0-10V DIMMING DRIVERS WITH 1 AND 3 OUTPUTS AS NEEDED. | |
| L2 | LUMENPULSE | LOGASHRAE-277-48-35K-WWRF-JUMAS-DIM-ETE | KIM LIGHTING INT SERIES | LED 3500K 80CRI | 0-10V | UNV | 5 | 6 | WET LOCATION RATED LINEAR GRADING FACADE FIXTURE WITH ASYMMETRICAL DISTRIBUTION AND ADJUSTABLE STANDOFF ARM MOUNT, 5W/FT. PROVIDE END-TO-END CONTINUOUS MOUNTING TO MATCH LENGTH OF SIGN. | |
| X | HE WILLIAMS | EXIT CA SERIES | DUAL-LITE LE SERIES LITHONIA LE SERIES ISOLITE RL SERIES LITHONIA LE SERIES HE WILLIAMS EXIT SERIES | LED | - | UNV | 5 | 5 | UNIVERSAL MOUNT LED EXIT SIGN, RED LETTERS. | |
| XW | HE WILLIAMS | EXIT/WET/CP | ISOLITE RWL SERIES LITHONIA WLTE SERIES | LED | - | | 5 | 5 | UNIVERSAL MOUNT LED EXIT SIGN, WET LOCATION LISTED, RED LETTERS. | |
| Y4 | COOPER LIGHTING | 4VRVT3-S-G-UNV-L835-CD1 | KURTZON WL-SEG-740 SERIES LITHONIA FEM SERIES | LED 3500K 80CRI | 0-10V | UNV | 44 | 49 | 4' VANDAL RESISTANT VAPORTITE LED, 5000 LUMEN, GENERAL DISTRIBUTION. | |
| Y4E | COOPER LIGHTING | 4VRVT3-S-G-UNV-L835-CD1 | | LED 3500K 80CRI | 0-10V | UNV | 44 | 49 | SAME AS Y4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES. | |



- NOTES:
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
 - CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
 - PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

③ OCCUPANCY SENSOR DETAIL - MULTIPLE POWER SUPPLIES AND SWITCHES NTS



- NOTES:
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
 - CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.

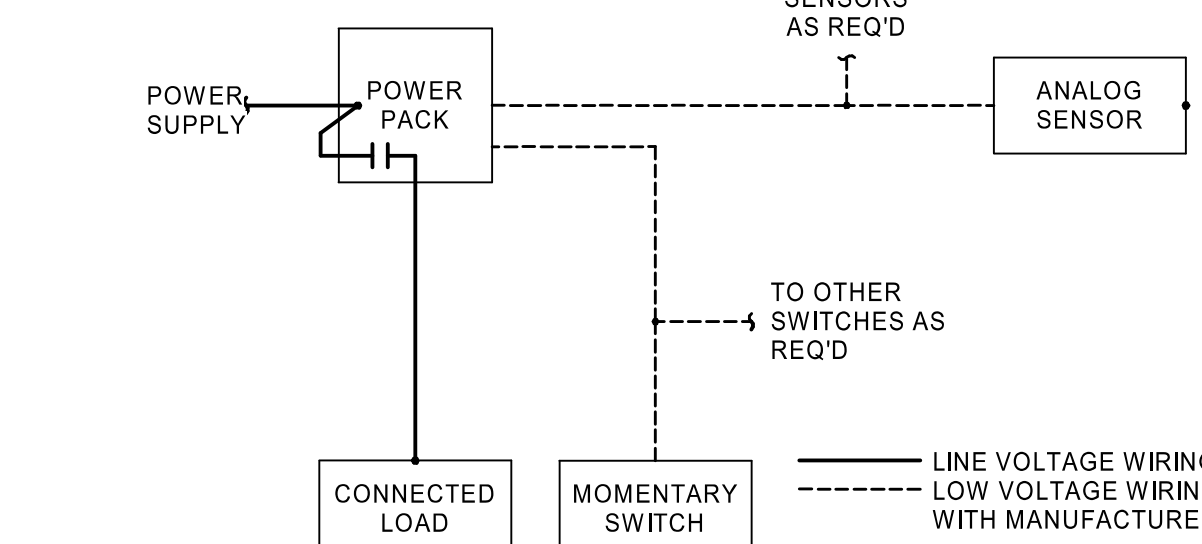
② OCCUPANCY SENSOR DETAIL - MULTIPLE POWER SUPPLIES AND SWITCHES NTS

LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE BASE BID, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR OWNER FURNISHED LIGHT FIXTURES.
- THE PARTY SUPPLYING THE LIGHT FIXTURES IS RESPONSIBLE FOR SUPPLYING THE PROPER QUANTITY OF LIGHT FIXTURES.

LIGHT FIXTURE SCHEDULE SUPPLEMENTAL SPECIFICATIONS:

- ANY PROPRIETARY, SOLE-SOURCED LIGHT FIXTURE LISTED IN THE LIGHT FIXTURE SCHEDULE SHALL BE UNIT PRICED ONLY. NO PACKAGING OR LOT PRICING OF THESE LIGHT FIXTURES SHALL BE ALLOWED. UNIT PRICES SHALL BE CLEARLY IDENTIFIED ON THE BID FORM.
- PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED. REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MIN/LOT PRICING (M/LP) FOR LIGHT FIXTURES AS ALLOWED IN ELECTRICAL SPECIFICATIONS.
- LIGHTING CONTROLS PRICING, INCLUDING BUT NOT LIMITED TO THOSE REFERENCED IN ELECTRICAL SPECIFICATIONS, SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MIN/LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
- FOR SUBSTITUTIONS: PROVIDE PHOTOMETRIC CALCULATIONS AND OTHER NECESSARY INFORMATION FOR ENGINEER REVIEW. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS. LIGHT FIXTURES NEAR OR IN CONTACT WITH INSULATION SHALL COMPLY WITH CODE. MAINTAIN 3" MINIMUM WORKING CLEARANCE BETWEEN NON-IC RATED LIGHT FIXTURE HOUSINGS AND INSULATION ON ALL ADJACENT DUCTWORK, PIPING, WALLS, AND CEILINGS.
- STRIP LIGHT FIXTURES SUBJECT TO DAMAGE, INCLUDING THOSE MOUNTED ON EQUIPMENT MEZZANINES, STORAGE, RECEIVING AND STOCKROOM AREAS, SHALL BE PROVIDED WITH WIRE GUARDS, PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMP/LIGHT SOURCES. COORDINATE REQUIREMENTS AND AFFECTED LIGHT FIXTURES WITH OWNER.



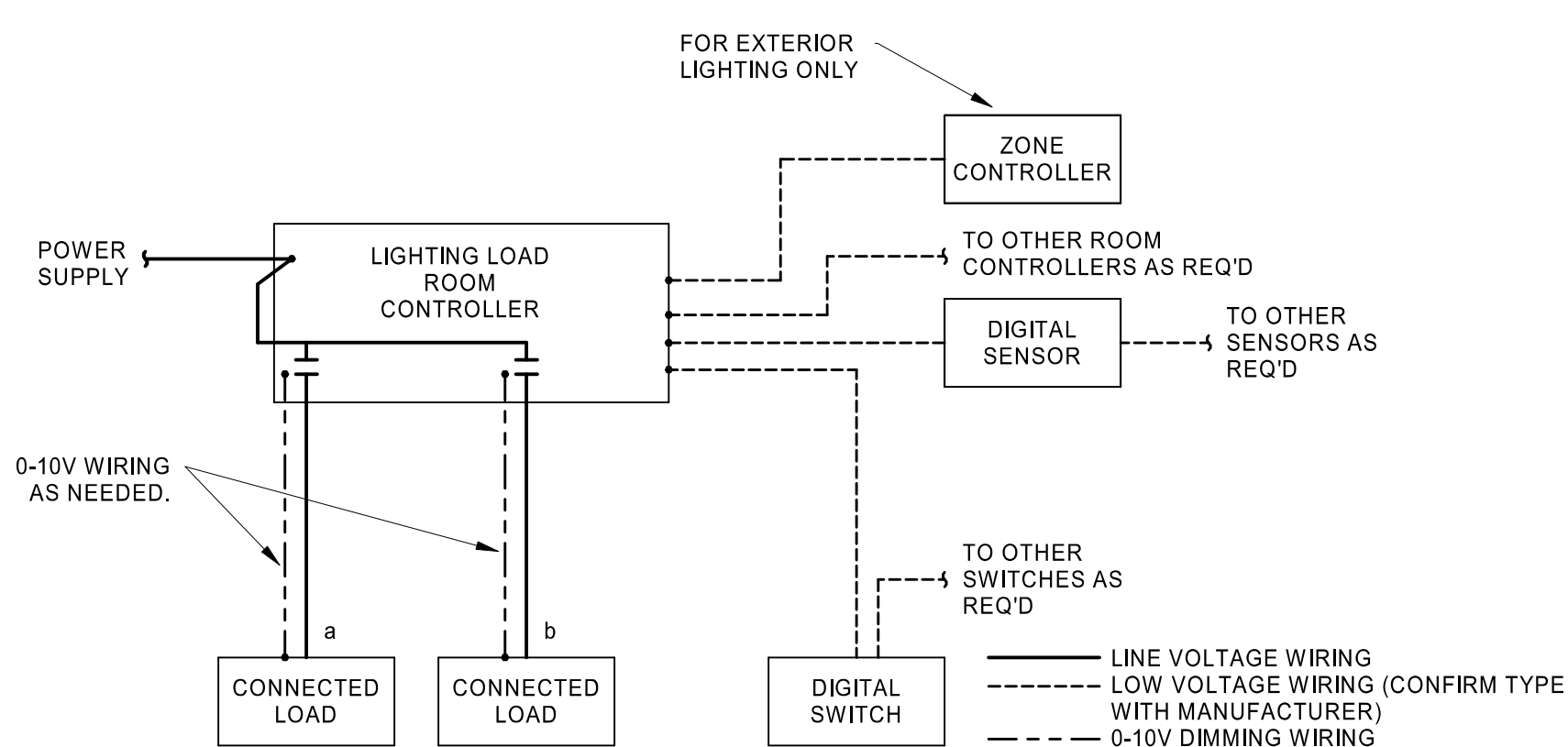
- NOTES:
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
 - CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.

① OCCUPANCY SENSOR DETAIL - SINGLE POWER SUPPLY AND SWITCH NTS

LIGHTING CONTROL SEQUENCE OF OPERATIONS:

GENERAL NOTE: CONFIRM ALL SENSOR TIME DELAYS WITH OWNER PRIOR TO FINAL PROGRAMMING.

- GENERAL REQUIREMENTS**
 - Emergency Lighting: Emergency egress lighting is powered from emergency battery ballasts and drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output.
 - Security Lighting: Night lights, labeled "NL" in building corridor for security purposes.
 - Lighting control type: Occupancy and Vacancy Sensors
 - Corridor, Cafeteria and Gymnasium occupancy sensors set to time out after 30 minutes
 - Offices and Classrooms sensors set to time out after 20 minutes
 - Back of house room type sensors set to time out after 20 minutes
 - All lighting controls in project scope are stand-alone type.
- POWER PACK BZ**
 - Manual Control: Occupant can manually control lights via local switch(es). At electrical equipment, keyed switch shall override occupancy sensor function and keep lights on during panel board maintenance.
 - Occupancy: Occupant must manually turn on lights.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
- POWER PACK B1**
 - Manual Control: Occupant can manually control lights and exhaust fan together via local switch(es).
 - Occupancy: Occupant must manually turn on lights and exhaust fan.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
- ROOM CONTROLLER DZC**
 - Manual Control: Occupant can manually control lights and dim via local switch(es). Switches shall dim in separate zones as designated as 'a', 'b' etc on plans.
 - Occupancy: Occupant must manually turn on lights.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
- SIGNAGE LIGHTING**
 - Automatic Control: Fixtures illuminating signs and backlit signage shall be turned on via single photocell and turned off via astronomical timeclock. Route through BAS.
 - Coordinate additional programing requirements with owner.



- NOTES:
- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER.
 - DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
 - CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
 - PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

④ ROOM CONTROLLER DETAIL - ON/OFF OR ON/OFF/0-10V DIMMING CONTROL NTS

Lee's Summit R7 District Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 124th Terrace
Lenexa, KS 66255
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
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Nov 9 2020

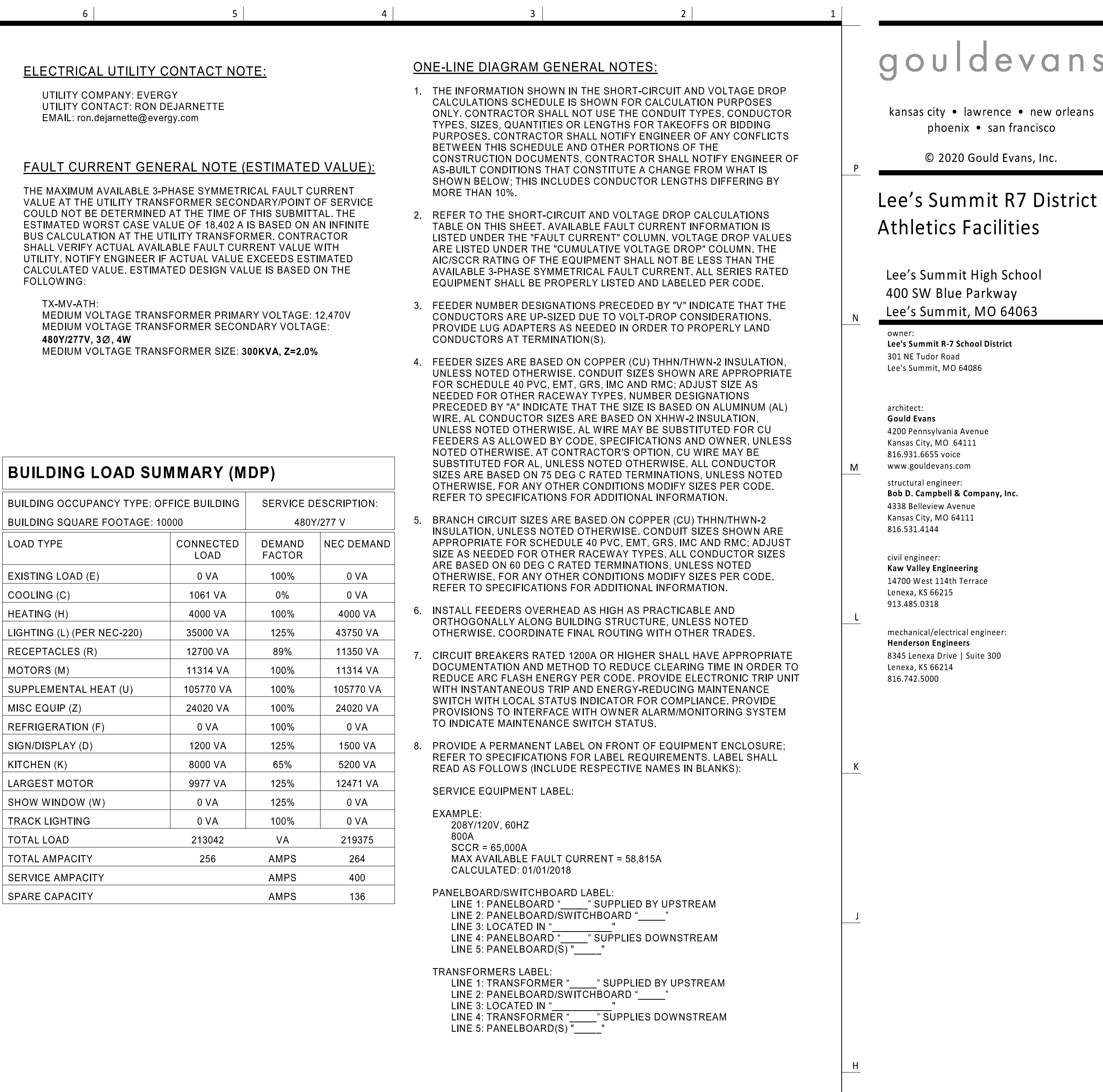
| REVISIONS | | |
|-----------|-------------|------------|
| NUMBER | DESCRIPTION | DATE |
| 1 | Addendum 3 | 10.29.2020 |

PROJECT NO: 0119-0101
DATE: September 28, 2020

LIGHTING SCHEDULES

H-E700

BID SET



| Fault Point | Bus/Feeder Description | Source (Fault Point) | Phase | Source Isc (kAmps) | Feeder | | | | | Conductor/Cable Value | Breaker Value | LL Voltage (E) | Circuit Length (L) | Load Factor (pf) | Circuit Breaker (Ampacity) | Conductor | | | Transformer | | | Tap Size | r | M | Fault Current (kA) | Voltage Drop (%VD) | Cumulative Voltage Drop (%VD) | Fault Point (F) | | | | | | | | | | |
|-------------|------------------------|----------------------|-------|--------------------|--|----------|----------|--------------------------------|----------------|-----------------------|---------------|----------------|--------------------|------------------|----------------------------|----------------|---------------|-------------|-----------------|-------------------|-----|----------|------|---|--------------------|--------------------|-------------------------------|-----------------|------|------|--------|--------|---|--|--|--|--|--|
| | | | | | Conduit Type/TX | Material | Quantity | Parallels Splits and Bus/Phase | & Neutral Size | | | | | | | Resistance (R) | Reactance (X) | ACROSS (pf) | Existing Xfmr Z | Secondary Voltage | | | | | | | | | | | | | | | | | | |
| 1 | Utility Service Point | | | 6.766 | at the secondary of the utility transformer | | | | | | | | | | | | | | | | | | | Source Isc = 6X Motor Contribution = 6886 | | | | | | | | | | | | | | |
| | Motor Contribution | | | | 20 The connected full load motor amps (includes compressors) on the system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | PRESS-B | 1 | 3 | 6896 | M | CU | 1 | Set(s) of 3/0 | 4 | AWG | 12844 | -- | 480 | 50 | 0.9 | 56 | 0.000079 | 0.000050 | 0.451027 | | | | | | | | | | | | | | | | | | | |
| 3 | TO TX-ETR | 2 | 1 | 6279 | M | CU | 1 | Set(s) of 4 | 4 | AWG | 3836 | -- | 480 | 25 | 0.9 | 160 | 0.000310 | 0.000050 | 0.451027 | | | | | | | | | | | | | | | | | | | |
| 4 | TX-ETR | 3 | 1 | 5358 | TX | | | | | | | -- | 480 | | | | | | | TP-1 | 150 | 25 | 4 | | 240 | | | 4.115 | 0.20 | 2095 | -0.27% | -0.45% | 4 | | | | | |
| 5 | PANEL ETR | 4 | 3 | 2095 | M | CU | 1 | Set(s) of 1 | 1 | AWG | 7293 | -- | 298 | 10 | 0.9 | 100 | 0.000160 | 0.000067 | 0.451027 | | | | | | | | | 0.624 | 0.98 | 2046 | -0.14% | -0.59% | 5 | | | | | |
| 6 | TX-ETD-LDV | 5 | 1 | 6896 | M | CU | 1 | Set(s) of 4 | 4 | AWG | 1567 | -- | 480 | 20 | 0.9 | 36 | 0.000789 | 0.000065 | 0.451027 | | | | | | | | | 3.192 | 0.21 | 1643 | -1.96% | -1.50% | 6 | | | | | |
| 7 | TO TX-LDV | 6 | 3 | 1563 | M | CU | 1 | Set(s) of 7 | 7 | AWG | 1567 | -- | 480 | 10 | 0.9 | 36 | 0.000789 | 0.000065 | 0.451027 | | | | | | | | | 0.038 | 0.96 | 1563 | -0.09% | -1.99% | 7 | | | | | |
| 8 | TX-LDV | 7 | 3 | 1563 | TX | | | | | | | -- | 480 | | | | | | | DOE | 150 | 30 | 2.44 | | 208 | | | 1.070 | 0.48 | 1764 | -0.18% | -2.17% | 8 | | | | | |
| 9 | LDV | 8 | 3 | 1764 | M | CU | 1 | Set(s) of 3 | 3 | | 4774 | -- | 208 | 10 | 0.9 | 84 | 0.000250 | 0.000059 | 0.451027 | | | | | | | | | 0.031 | 0.97 | 1712 | -0.18% | -2.17% | 9 | | | | | |

- TRANSFORMERS LABEL:
 LINE 1: TRANSFORMER "_____" SUPPLIED BY UPSTREAM
 LINE 2: PANELBOARD/SWITCHBOARD "_____"
 LINE 3: LOCATED IN "_____"
 LINE 4: TRANSFORMER "_____" SUPPLIES DOWNSTREAM
 LINE 5: PANELBOARD(S) "_____"

- C. FROM THE UTILITY TRANSFORMER TO THE OWNER EQUIPMENT TO THE TENANT SPACE, INCLUDE FEEDER CONDUCTOR MATERIAL, (AL OR CU), NUMBER AND SIZE OF CONDUCTORS, GROUND, LENGTH, CONDUIT SIZE AND CONDUIT TYPE.
- D. TYPE OF SERVICE DISCONNECT OVER-CURRENT PROTECTION DEVICE, (FUSE OR CIRCUIT BREAKER), AMPERE RATING OF THE DEVICE AND AIC/SCCR RATING OF THE DEVICE.
- E. AIC/SCCR RATING AT EACH EXISTING SWITCHBOARD/PANELBOARD.

1. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
2. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE ALL TYPES OF CIRCUIT BREAKERS. OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHI.
3. PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH RESED PANELBOARD UP TO ACCESSIBLE CLEING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
4. PROVIDE 4" EMPTY 1" CONDUITS WITH PULLING STRINGS FROM EACH RESED PANELBOARD UP TO ACCESSIBLE CLEING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
5. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO CONSTRUCTION. ALL PANELBOARDS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SW Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

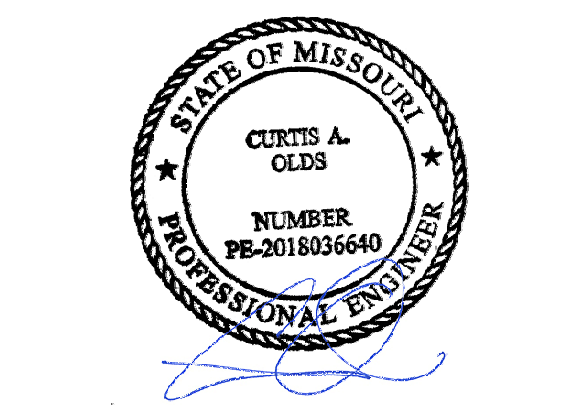
architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.531.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

| REVISIONS | | |
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| Number | DESCRIPTION | DATE |

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL ONE-LINE
DIAGRAM

H-E801

BID SET

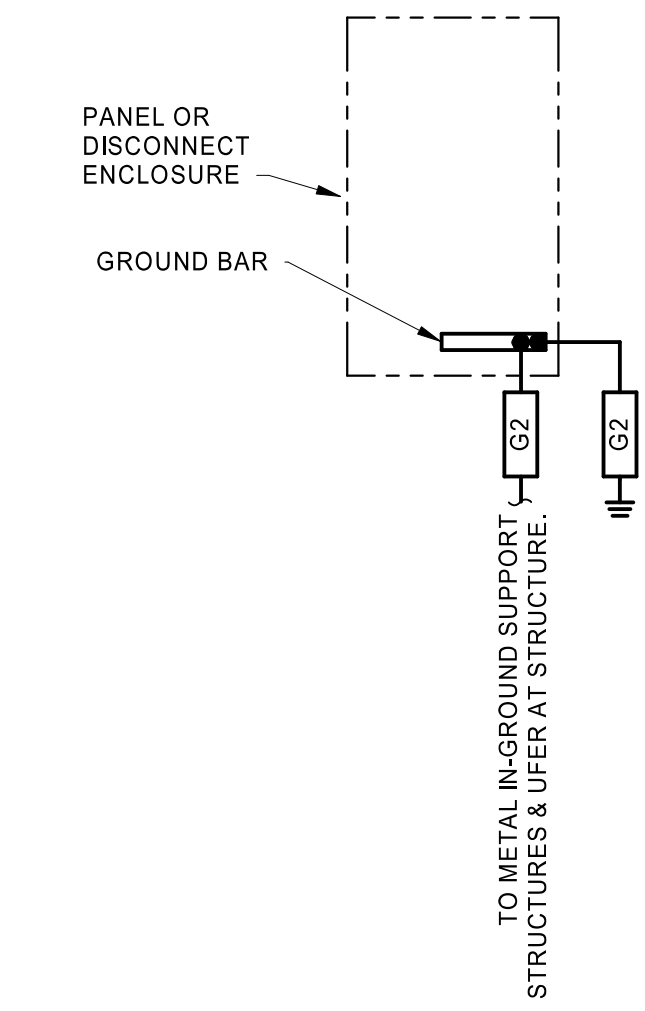
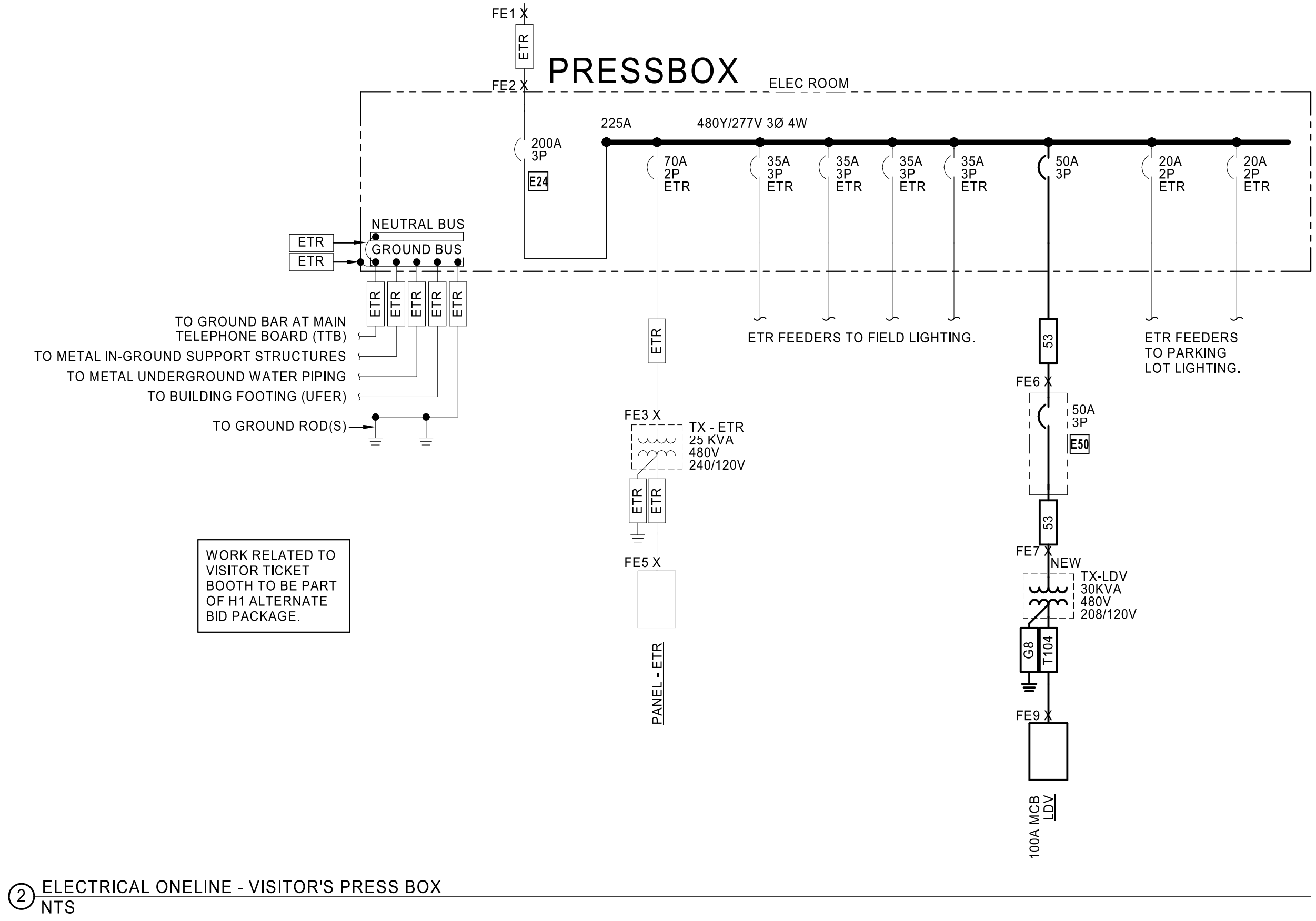
- ONE-LINE DIAGRAM GENERAL NOTES:**
- REFER TO ONE-LINE DIAGRAM GENERAL NOTES ON SHEET H-E800.
 - REFER TO SHORT-CIRCUIT AND VOLTAGE DROP SCHEDULE ON SHEET H-E800 FOR SHORT CIRCUIT AND VOLTAGE DROP INFORMATION.
- ☐ **ELECTRICAL PLAN NOTES:**
- E24 CONTRACTOR TO METER EXISTING LOADS FOR A MINIMUM OF 30 DAYS OF NORMAL USE PER NEC 220.87. STOP WORK AND NOTIFY THE ENGINEER IF THE METERED LOAD EXCEEDS 113 KW.
- E50 PROVIDE GROUNDING AT EQUIPMENT PER DETAIL 1 ON SHEET H-E801.

| BUILDING LOAD SUMMARY (PRESS BOX) | | | |
|--|--------------------|----------------------|----------------|
| BUILDING OCCUPANCY TYPE: OFFICE BUILDING | | SERVICE DESCRIPTION: | |
| BUILDING SQUARE FOOTAGE: 100 | | 480Y/277 V | |
| LOAD TYPE | CONNECTED LOAD KVA | DEMAND FACTOR | NEC DEMAND KVA |
| EXISTING PEAK UTILITY (@ 0.9 pf) | N/A | 125% | 156.94 |
| COOLING (C) | 0.00 | 0% | 0.00 |
| HEATING (H) | 0.00 | 100% | 0.00 |
| LIGHTING (L) (PER NEC-220) | 0.08 | 125% | 0.10 |
| RECEPTACLES (R) | 0.54 | 100% | 0.54 |
| MOTORS (M) | 0.00 | 100% | 0.00 |
| SUPPLEMENTAL HEAT (U) | 3.00 | 100% | 3.00 |
| MISC EQUIP (Z) | 0.00 | 100% | 0.00 |
| REFRIGERATION (F) | 0.00 | 100% | 0.00 |
| SIGN/DISPLAY (D) | 0.00 | 125% | 0.00 |
| KITCHEN (K) | 0.00 | 100% | 0.00 |
| LARGEST MOTOR | 0.00 | 125% | 0.00 |
| SHOW WINDOW (W) | 0.00 | 125% | 0.00 |
| TRACK LIGHTING | 0.00 | 100% | 0.00 |
| EXISTING LOAD TO BE DELETED | 0.00 | 100% | 0.00 |
| TOTAL LOAD | 3.62 | KVA | 160.59 |
| TOTAL AMPACITY | 4.36 | AMPS | 193.16 |
| SERVICE AMPACITY | | AMPS | 200.00 |
| SPARE CAPACITY | | AMPS | 6.84 |
| *PER UTILITY COMPANY BILLING PEAK DEMAND OF: | | 113.00 KW | |

FEEDER SCHEDULE:

SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION. UNO. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION. UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS. UNO. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC. ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

| FEEDER TAG | FEEDER DESCRIPTION |
|------------|---|
| 33 | (3)#10, (1)#10 G, 1/2" C |
| 53 | (3)#8, (1)#10 G, 3/4" C |
| 72 | (2)#4, (1)#8 G, 3/4" C |
| 73 | (3)#4, (1)#8 G, 1" C |
| 124 | (4)#1, (1)#6 G, 1-1/2" C |
| 204 | (4)#3/0, (1)#6 G, 2" C |
| AT104 | (4)#1, (1)#6 SSBJ, 1-1/2" C |
| ETR | ETR |
| G2 | #2 COPPER GROUND, 3/4" C |
| G4 | #4 COPPER GROUND, 3/4" C |
| G6 | #6 COPPER GROUND, 3/4" C |
| G8 | #8 COPPER GROUND, 3/4" C |
| G20 | #2/0 COPPER GROUND, 3/4" C |
| MV2/0 | (3)#2/0 (15kV), (1)#4 (600V), 6" C |
| MV500 | (3)>500kcmil (15kV), (1)#2/0 (600V), 6" C |
| S404 | (2) 2" C, EACH W/ (4)#3/0 |
| T104 | (4)#3, (1)#8 SSBJ, 1-1/4" C |
| T123 | (3)#1, (1)#6 SSBJ, 1-1/4" C |
| T154 | (4)#1/0, (1)#6 SSBJ, 1-1/2" C |



1 PANEL GROUNDING DETAIL
NTS

2 ELECTRICAL ONELINE - VISITOR'S PRESS BOX
NTS

TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

| STANDARD MOUNTING HEIGHTS | |
|--|--|
| TELECOM BACKBOARD (BOTTOM OF BACKBOARD) | 4" |
| LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE) | 90" |
| CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY) | 3"(MIN) |
| LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE) | 108"(MIN) |
| TELEPHONE WALL OUTLET (CENTERLINE) | 48" |
| DATA WALL OUTLET | SAME AS ADJACENT DEVICE, UNO |
| TELEVISION OUTLET | REFER TO ARCH DRAWINGS |
| TMGB/TGB (CENTERLINE) | 84" |
| WALL CLOCK (CENTERLINE) | 84" |
| INTERCOM (CENTERLINE) | 48" |
| USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO BOTTOM OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS. | |
| ABBREVIATIONS | |
| A AMPERES | LAN LOCAL AREA NETWORK |
| ADA AMERICANS WITH DISABILITIES ACT | LCC LIMITED COMBUSTIBLE CABLE |
| AFC ABOVE FINISHED CEILING | LEC LOCAL EXCHANGE CARRIER |
| AFB ABOVE FINISHED FLOOR | LED LIGHT-EMITTING DIODE |
| AFG ABOVE FINISHED GRADE | LF LINEAR FEET |
| AHJ AUTHORITY HAVING JURISDICTION | MAN METROPOLITAN AREA NETWORK |
| ANSI AMERICAN NATIONAL STANDARDS INSTITUTE | MATV MASTER ANTENNA TELEVISION |
| AP ACCESS POINT | MC MAIN CROSS-CONNECT |
| AV AUDIO-VIDEO | MDF MAIN DISTRIBUTION FRAME |
| AWG AMERICAN WIRE GAUGE | MFR MANUFACTURER |
| BAS BUILDING AUTOMATION SYSTEM | MH MAINTENANCE HOLE |
| BD BUILDING DISTRIBUTOR | MM MULTIMODE |
| BDF BUILDING DISTRIBUTION FRAME | MPDE MAIN POINT OF ENTRANCE |
| BFC BELOW FINISHED CEILING | MPDP MAIN POINT OF PRESENCE |
| C CONDUIT | MTD MUTED |
| CAT CATEGORY | N/A NOT APPLICABLE |
| CATV COMMUNITY ANTENNA TELEVISION | NEC NATIONAL ELECTRICAL CODE |
| CCTV CLOSED CIRCUIT TELEVISION | NFPA NATIONAL FIRE PROTECTION ASSOCIATION |
| CD CAMPUS DISTRIBUTOR | NIC NOT IN CONTRACT |
| CMP COMMUNICATIONS PLENUM JACKET | NIA NANOMETER |
| CMR COMMUNICATIONS RISER JACKET | NRTL NATIONALLY RECOGNIZED TESTING LAB |
| DAS DISTRIBUTED ANTENNA SYSTEM | OC ON CENTER |
| dB DECIBELS | OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| DEMO DEMOLITION | OSP OUTSIDE PLANT |
| (E) EXISTING | PBX PRIVATE BRANCH EXCHANGE |
| EC ELECTRICAL CONTRACTOR | POE POWER OVER ETHERNET |
| ECIA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION | POW PASSIVE OPTICAL NETWORK |
| EMIELECTROMAGNETIC INTERFERENCE | POTS PLAIN OLD TELEPHONE SERVICE |
| EMS ENERGY MANAGEMENT SYSTEM | PSSTN PUBLIC SWITCHED TELEPHONE NETWORK |
| EMT ELECTRICAL METALLIC TUBING | QTY QUANTITY |
| ER EQUIPMENT ROOM | RCDP REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER |
| ETR EXISTING TO REMAIN | RMC RIGID METAL CONDUIT |
| FAAP FIRE ALARM ANNUNCIATOR PANEL | RU RACK UNIT |
| FACP FIRE ALARM CONTROL PANEL | SCS STRUCTURED CABLING SYSTEM |
| FD FLOOR DISTRIBUTOR | SF SQUARE FEET |
| FMC FLEXIBLE METAL CONDUIT | SM SINGLEMODE |
| FS FIRE STOP SYSTEM | SPECS SPECIFICATIONS |
| FLR FLOOR | T8B TELECOMMUNICATIONS BONDING BACKBONE |
| F/UTP SCREEN TWISTED PAIR (SHIELDED) | TBD TO BE DETERMINED |
| GC GENERAL CONTRACTOR | TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION |
| GE GROUNDING EQUALIZER | TGB TELECOMMUNICATIONS GROUND BUS BAR |
| GYP GYPSUM BOARD | TMGB TELECOMMUNICATIONS MAIN GROUND BAR |
| HC HORIZONTAL CROSS-CONNECT | TR TELECOMMUNICATIONS ROOM |
| HCM HORIZONTAL CABLE MANAGER | TYP TYPICAL |
| HH HAND HOLE | UNO UNLESS NOTED OTHERWISE |
| HZ HERTZ | UL UNDERWRITER LABORATORIES, INC. |
| IMC INTERMEDIATE METAL CONDUIT | UPS UNINTERRUPTIBLE POWER SUPPLY |
| IP INTERNET PROTOCOL | U/UTP UNSHIELDED TWISTED PAIR |
| ISP INTERNET SERVICE PROVIDER | V VOLT(S) |
| ISP INSIDE PLANT CABLE | VCM VERTICAL CABLE MANAGER |
| JB JUNCTION BOX | W WIRE |
| J-BOX JUNCTION BOX | WAN WIDE AREA NETWORK |
| | WAO WORK AREA OUTLET |
| | WAP WIRELESS ACCESS POINT |
| | WP WEATHER PROOF |
| | WR WEATHER RESISTANT |
| | WT WATERTIGHT |
| | XP EXPLOSION-PROOF |
| ANNOTATION | |
| | TECHNOLOGY PLAN CALLOUT |
| | EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED) |
| | CONNECTION POINT OF NEW WORK TO EXISTING |
| | DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER |
| | SECTION CUT DESIGNATION |
| LINETYPE LEGEND | |
| THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC. | |
| EXISTING | NEW |
| DEMOLISH | FUTURE |

| PATHWAYS | |
|----------------|---|
| | WIRE MESH CABLE TRAY (W*=WIDTH, "H*=HEIGHT) |
| | VERTICAL CABLE TRAY |
| | UNDERGROUND CONDUIT (*#*=QUANTITY, "D"*=CONDUIT DIAMETER) |
| | CONDUIT (*#*=QUANTITY, "D"*=CONDUIT DIAMETER) |
| | CABLE SUPPORTS OR J-HOOKS |
| | CONDUIT SLEEVE (*#*=QUANTITY, "D"*=CONDUIT DIAMETER) |
| | UL FIRESTOP SYSTEM ASSEMBLY |
| | PULL BOX (*L*=LENGTH, "W"*=WIDTH, "H"*=HEIGHT) |
| | SPLICE |
| RISER DIAGRAMS | |
| | FIBER OPTIC CROSS CONNECT - DETAIL 5/H-TN500 |
| | COPPER UTP CROSS CONNECT |
| | 110-TYPE PROTECTOR BLOCK |
| | PATCH PANEL - DETAIL 7/H-TN500 |
| | TELECOM GROUND BAR (TGB) - DETAIL 9/H-TN500 |
| | TELECOM MAIN GROUND BAR (TMGB) |
| | TELECOMMUNICATIONS BACKBONE CABLING (REFER TO RISER DIAGRAM FOR MORE INFORMATION) |
| | LADDER RACK |
| | TELECOM MAIN GROUND BAR (TMGB) - WALL ELEVATION VIEW |
| | TELECOM GROUND BAR (TGB) - WALL ELEVATION VIEW |
| | TMGB/TGB - PLAN VIEW |
| | TELECOM BACKBOARD |
| | TWO-POST EQUIPMENT RACK |
| | FOUR-POST EQUIPMENT RACK |
| | EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION) |

| TELECOMMUNICATIONS OUTLETS | | | |
|----------------------------|---|----------|---------------|
| SYMBOL | DESCRIPTION | CABLE(S) | DETAIL |
| | ELEVATOR PHONE OUTLET - ANALOG | 1 | 8/H-TN500 |
| | DATA WALL OUTLET - DISPLAY | 1 | 2,4,6/H-TN500 |
| | DATA WALL OUTLET | 2 | 2,4,6/H-TN500 |
| | DATA CEILING OUTLET - WIRELESS ACCESS POINT | 1 | 3,4/H-TN500 |
| | DATA CEILING OUTLET - PROJECTOR | 1 | 3,4/H-TN500 |

| TELECOMMUNICATIONS RESPONSIBILITY MATRIX | | | | | |
|---|-------------------|-------|-------------------|-------|----------|
| Description | Furnish | | Install | | Comments |
| | Construction Team | Owner | Construction Team | Owner | |
| General Communications | | | | | |
| Grounding and Bonding | X | | X | | |
| Hangers and Supports | X | | X | | |
| Conduits and Backboxes | X | | X | | |
| Underground pathways for utility entrance and floor boxes | X | | X | | |
| Firestops, Conduit Sleeves, and Sleeve Seals | X | | X | | |
| Structured Cabling | | | | | |
| Telecom Room Cabinets, Racks, Frames, and Enclosures | X | | X | | |
| Telecom Room Buildout (ex. backboard and ladder rack) | X | | X | | |
| Optical Fiber Backbone Cable and Connectivity | X | | X | | |
| Copper Backbone Cable and Connectivity | X | | X | | |
| Copper Horizontal Cable and Connectivity | X | | X | | |
| Data Communications | | | | | |
| Router / Firewall | | X | | X | |
| Core Switch / Edge Switch | | X | | X | |
| Wireless Access Points | | X | | X | |
| Servers / Storage and Backup | | X | | X | |
| Laptops / Desktops / Copiers / Printers / Scanners | | X | | X | |
| Software | | X | | X | |
| Voice Communications | | | | | |
| VoIP Gateway / Analog handsets | | X | | X | |
| VoIP handset wall mount kit | | X | | X | |
| VoIP handsets | | X | | X | |
| VoIP Network licensing | | X | | X | |

- GENERAL NEW WORK NOTES
1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.

2. ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.

3. FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.

4. ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE. FOR CONDUITS INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.

5. ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (FIS). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07, 07 84.00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.

6. BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.

7. ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.

8. TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)

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PROJECT NO: 0119-0101
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TECHNOLOGY
GENERAL NOTES AND
LEGEND

H-TN000

BID SET

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| | Addendum 3 | 10.13.2020 |

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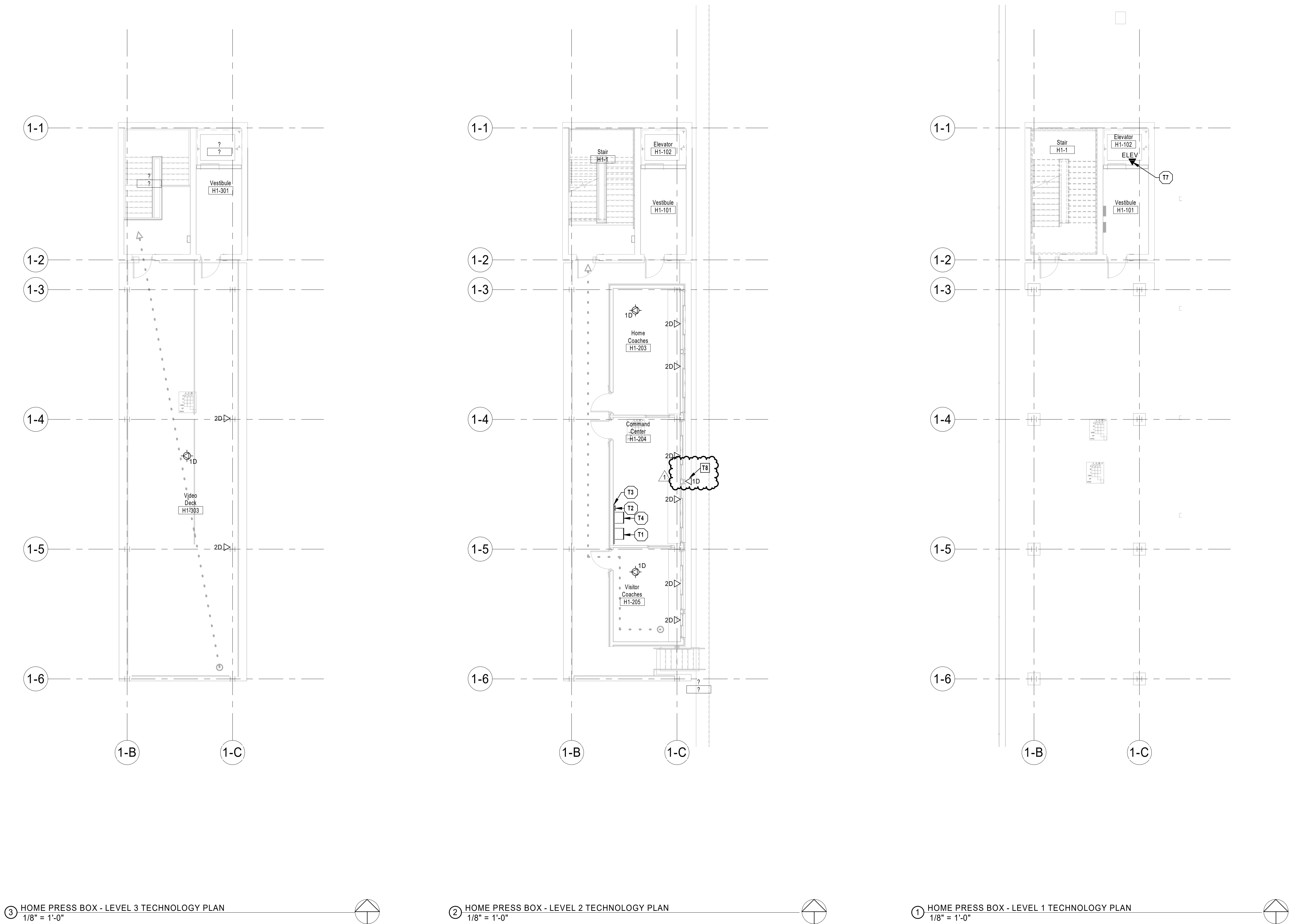
HOME PRESS BOX -
TECHNOLOGY PLANS

H-TN111

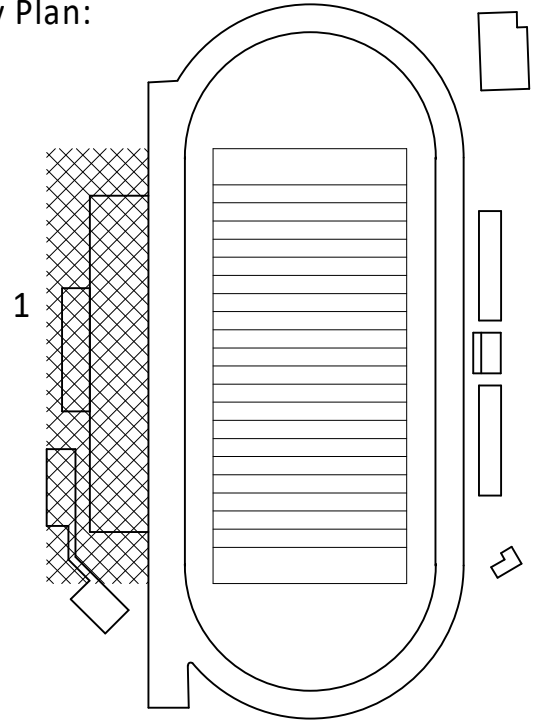
BID SET

TECHNOLOGY PLAN NOTES:

- T1 AV RACK TO BE PROVIDED BY OTHERS.
T2 PROVIDE TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0" AFF. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
T3 PROVIDE TELECOMMUNICATIONS BACKBOARD, GRADE A/C 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
T4 WALL MOUNTED DATA RACK. PROVIDE OPTICAL FIBER PANEL AND PATCH PANELS AS REQUIRED TO SUPPORT DATA OUTLETS PER DIVISION 27 SPECIFICATIONS. INSTALL OWNER FURNISHED EQUIPMENT IN RACK PER MANUFACTURER'S RECOMMENDATIONS.
T7 ELEVATOR PHONE OUTLET. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR PROVIDER.
T8 COORDINATE ROUGH-IN LOCATION WITH SECURITY INSTALLER.



Key Plan:



18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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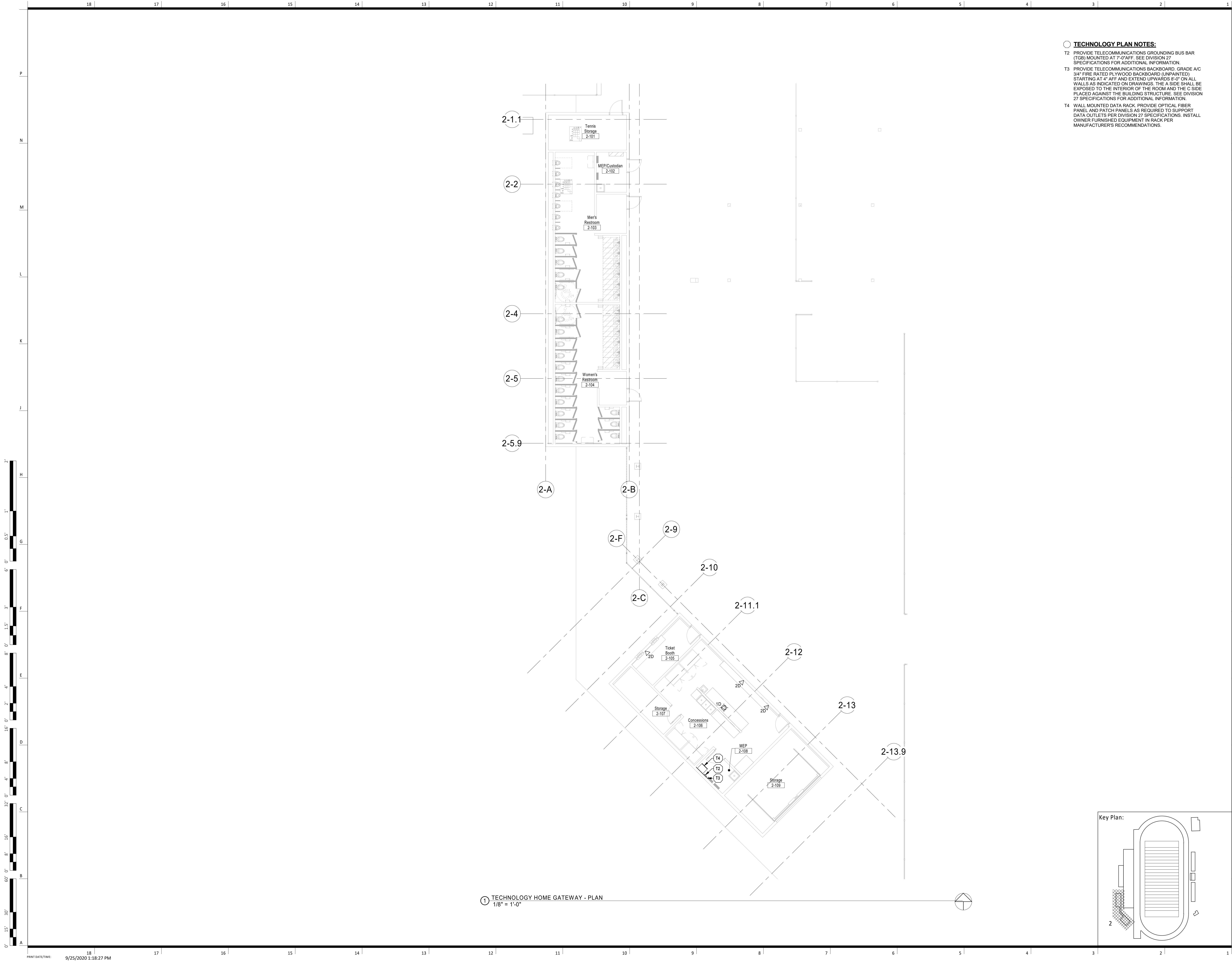
E

D

C

B

A



- TECHNOLOGY PLAN NOTES:**
- T2 PROVIDE TELECOMMUNICATIONS GROUNDING BUS BAR (TSB) MOUNTED AT 7'-0" AFF. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T3 PROVIDE TELECOMMUNICATIONS BACKBOARD, GRADE A/C 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T4 WALL MOUNTED DATA RACK. PROVIDE OPTICAL FIBER PANEL AND PATCH PANELS AS REQUIRED TO SUPPORT DATA OUTLETS PER DIVISION 27 SPECIFICATIONS. INSTALL OWNER FURNISHED EQUIPMENT IN RACK PER MANUFACTURER'S RECOMMENDATIONS.

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**TECHNOLOGY HOME
GATEWAY - PLAN**

H-TN121

BID SET



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**TECHNOLOGY VISITOR
TICKET BOOTH - PLAN**

H-TN131

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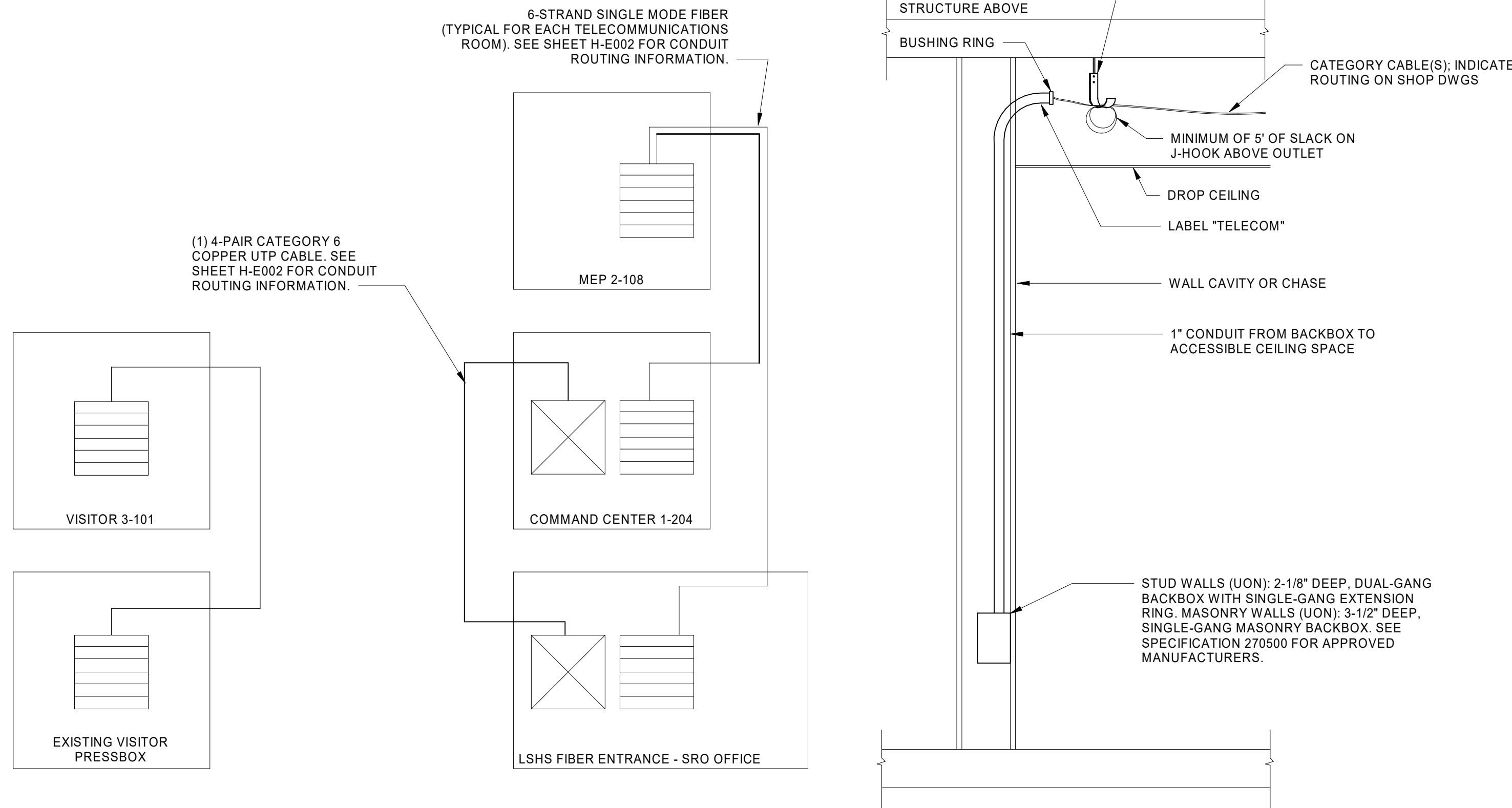
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TECHNOLOGY DETAILS

H-TN500

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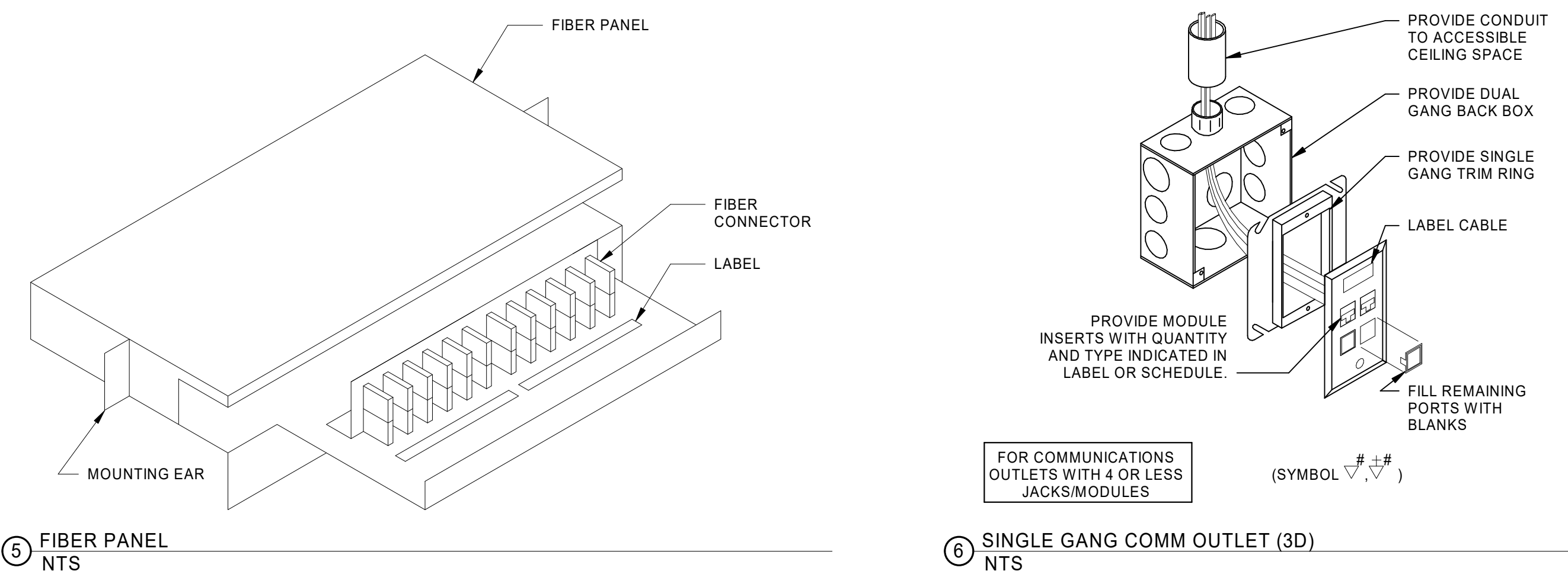


1 RISER DIAGRAM - BACKBONE CABLES
NTS

2 COMMUNICATIONS OUTLET MOUNTING
NTS

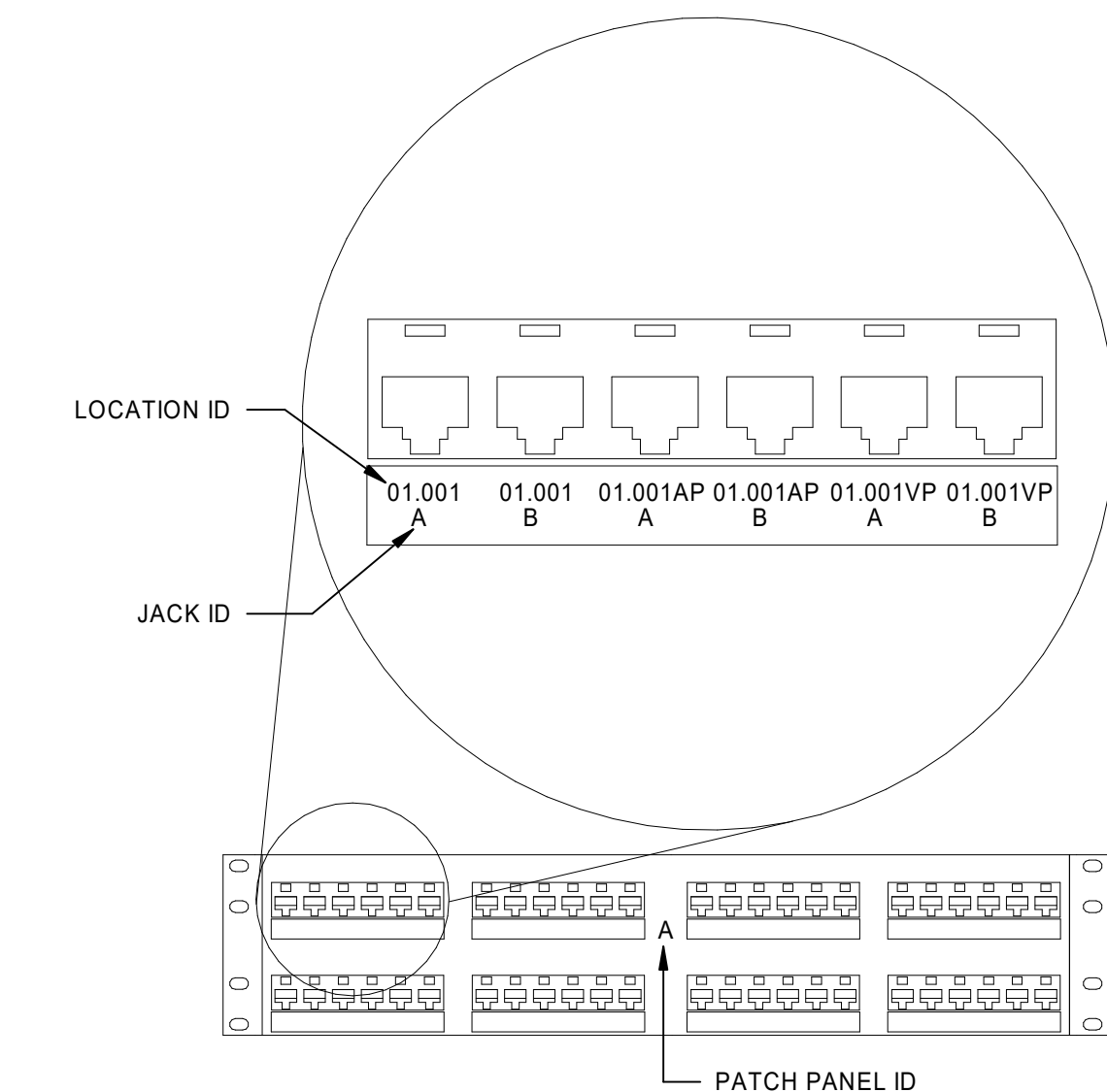
3 CEILING COMM OUTLET 2D
NTS

4 LABELING OF HORIZONTAL CABLE
NTS

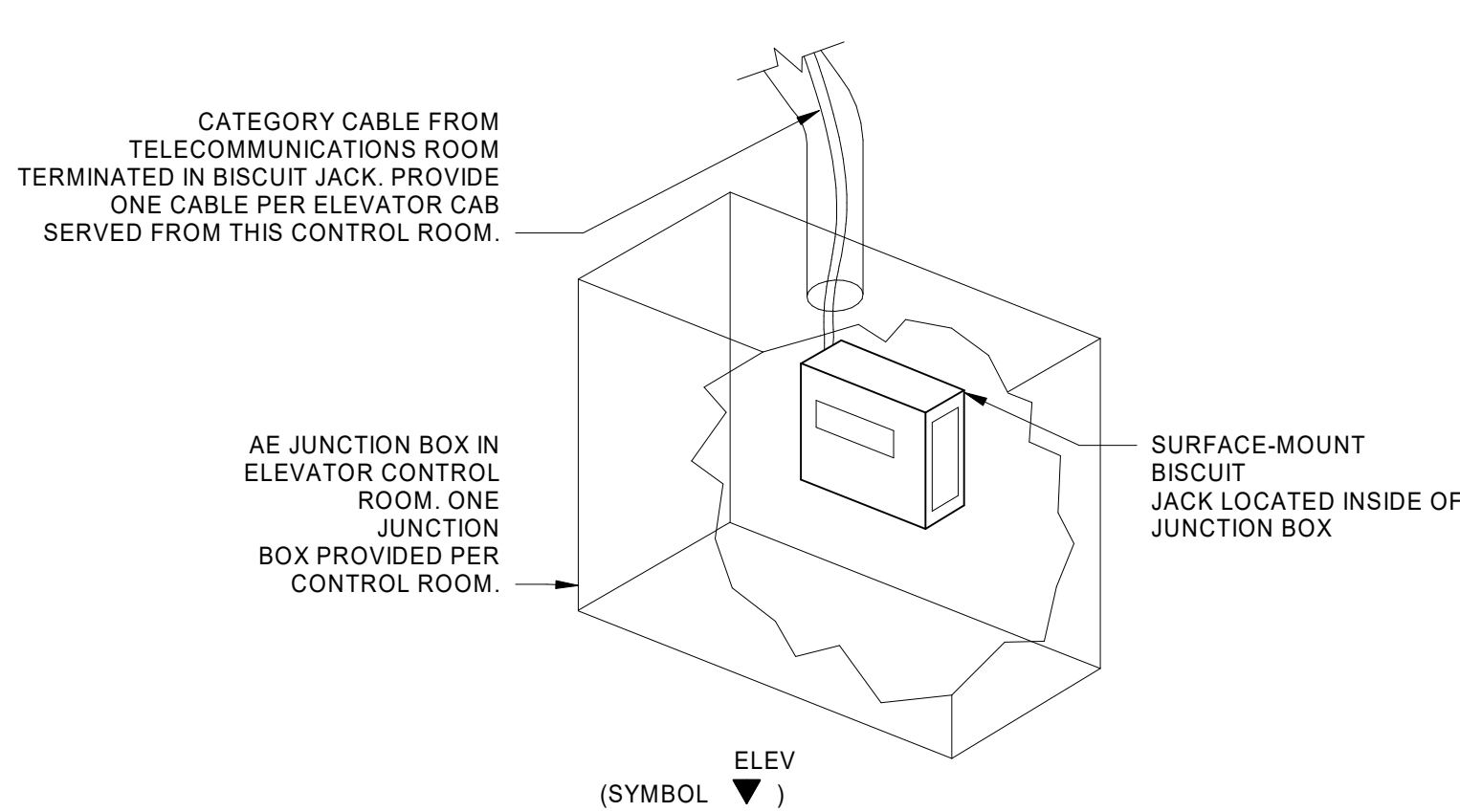


5 FIBER PANEL
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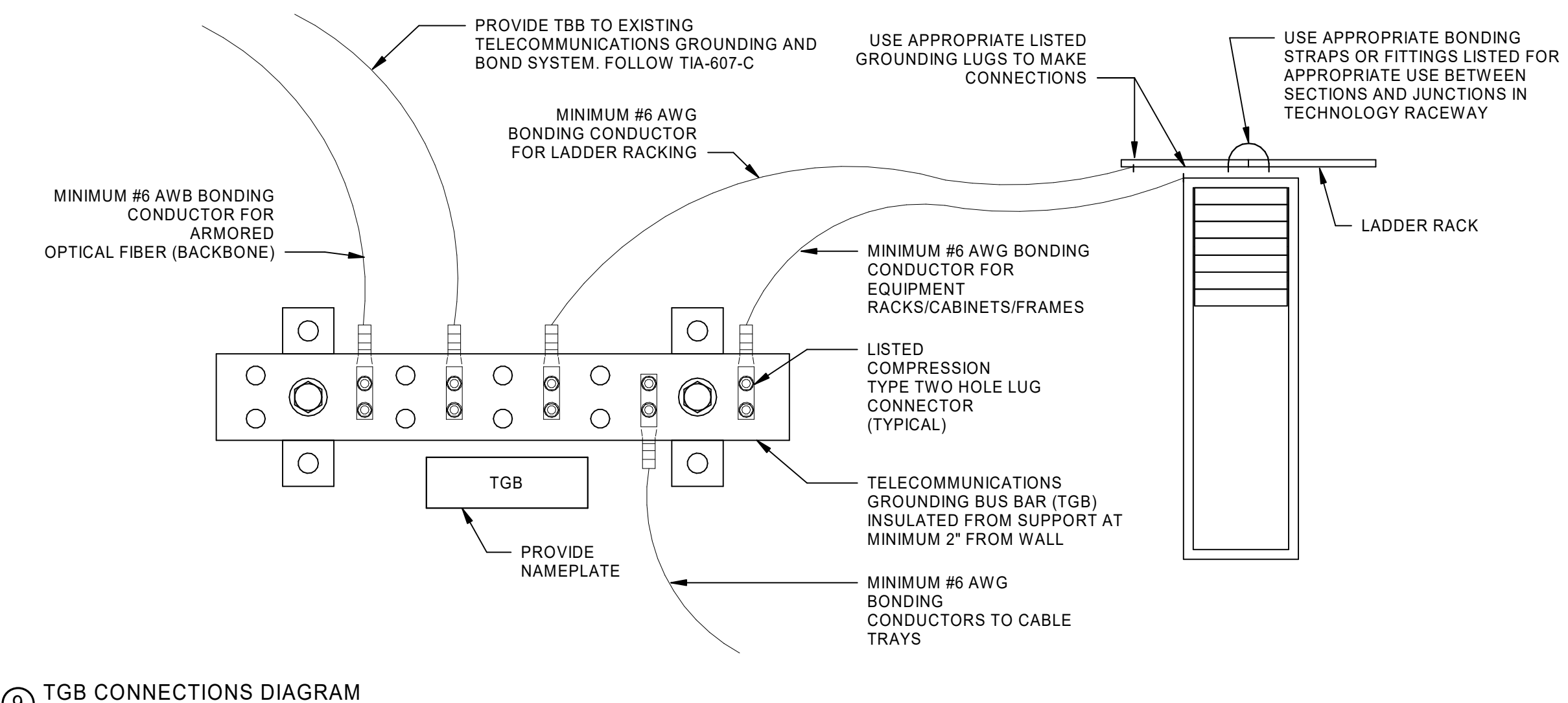
6 SINGLE GANG COMM OUTLET (3D)
NTS



7 TYPICAL PATCH PANEL LABELING DETAIL
NTS



8 COMM OUTLET FOR ELEVATOR - LAND LINE
NTS



9 TGB CONNECTIONS DIAGRAM
NTS