NEW CAMPGROUND
MISSOURI STATE FAIRGROUNDS
SEDALIA, MISSOURI

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF AGRICULTURE
MISSOURI STATE FAIRGROUNDS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

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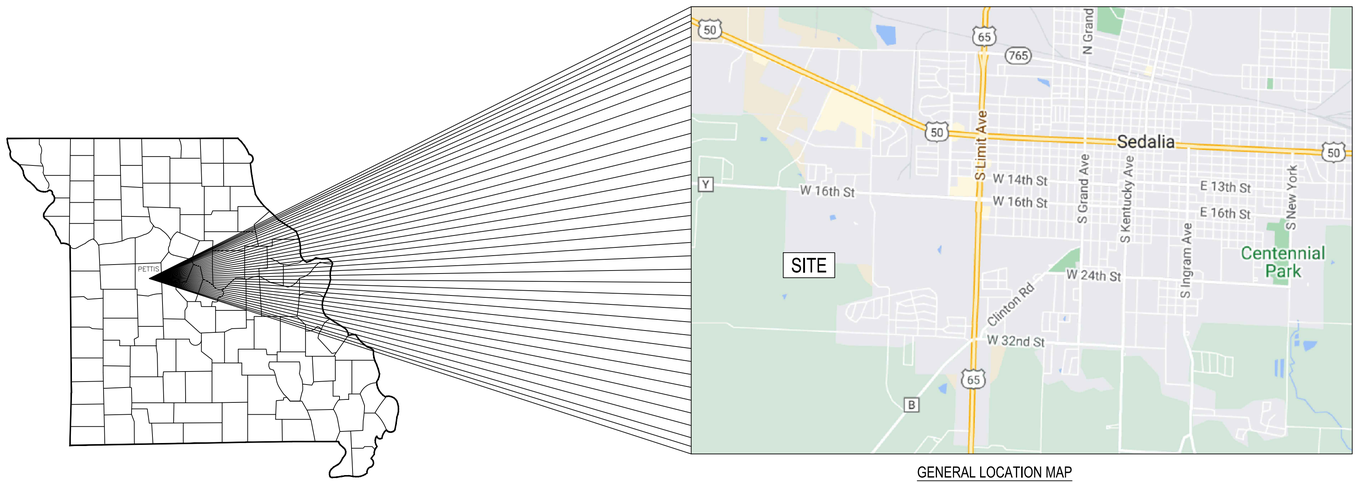
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DESIGNER: ALLSTATE CONSULTANTS LLC

PROJECT NUMBER: F2307-01

SITE NUMBER: 1501

ASSET NUMBER: 3511501153



GENERAL LOCATION MAP
NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

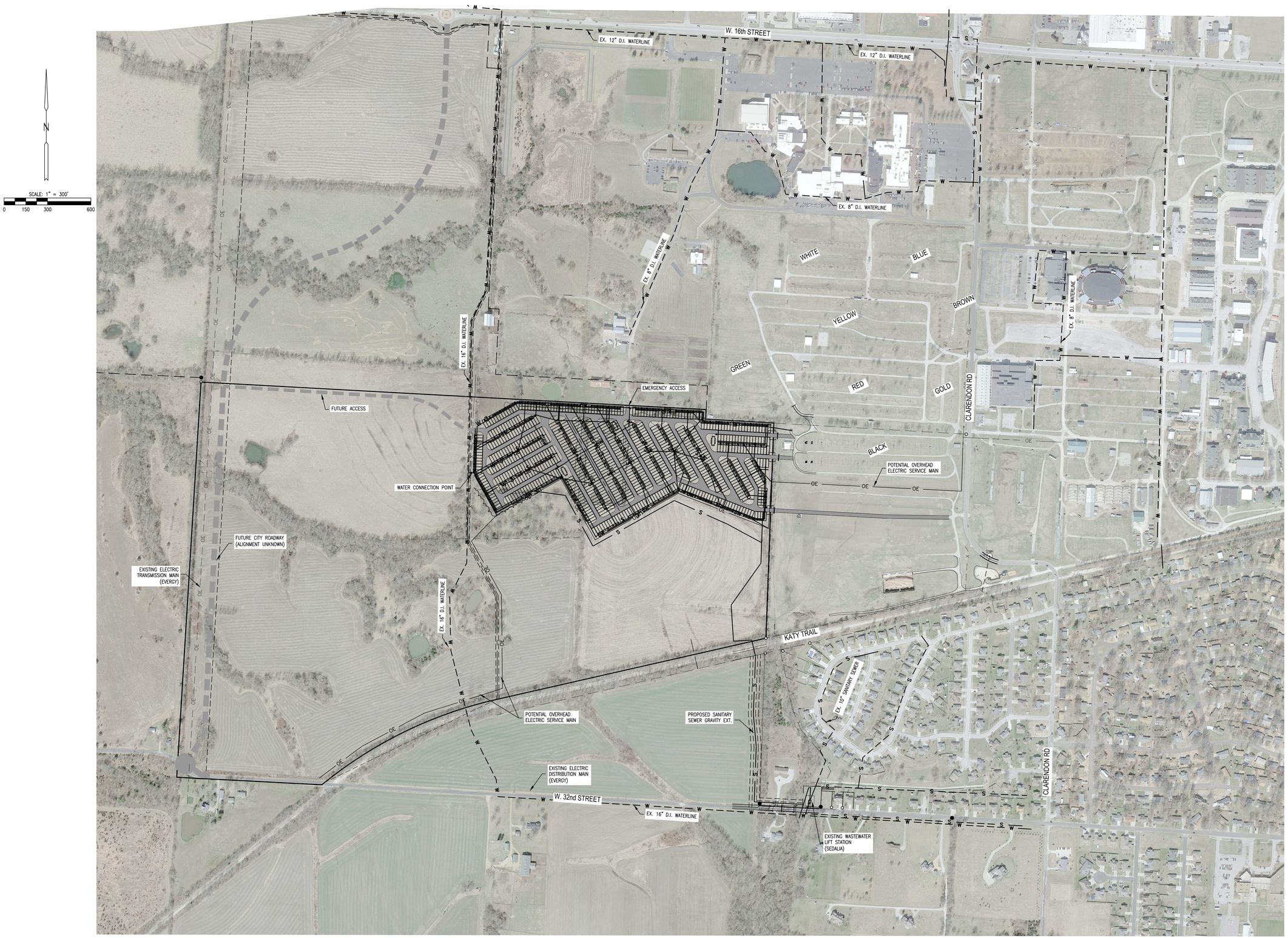
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ASSET # 3511501153

REVISION: 1
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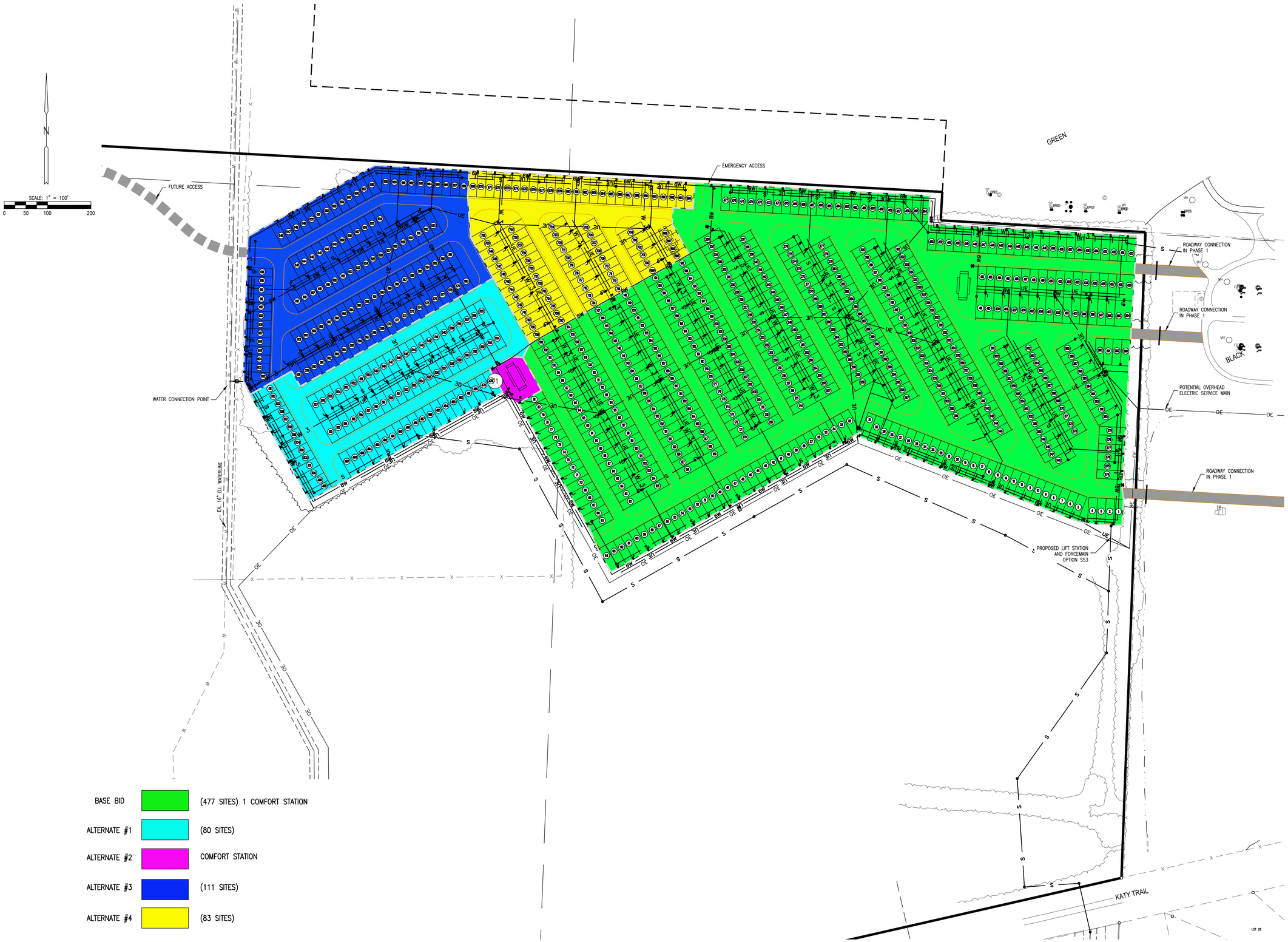
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ASSET # 3511501153

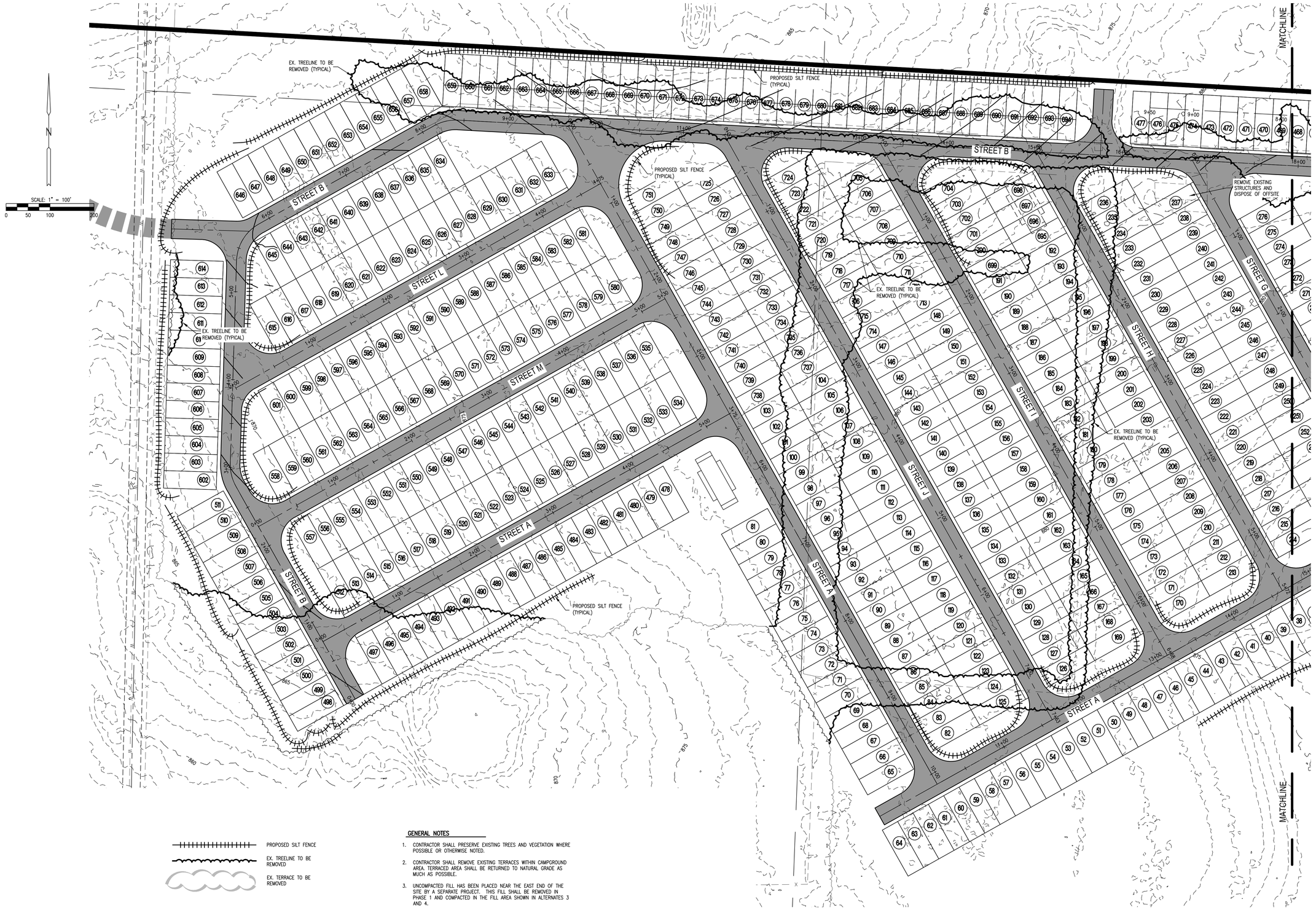
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OVERALL PHASING

SHEET NUMBER:
C-003

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GENERAL NOTES

1. CONTRACTOR SHALL PRESERVE EXISTING TREES AND VEGETATION WHERE POSSIBLE OR OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE EXISTING TERRACES WITHIN CAMPGROUND AREA. TERRACED AREA SHALL BE RETURNED TO NATURAL GRADE AS MUCH AS POSSIBLE.
3. UNCOMPACTED FILL HAS BEEN PLACED NEAR THE EAST END OF THE SITE BY A SEPARATE PROJECT. THIS FILL SHALL BE REMOVED IN PHASE 1 AND COMPACTED IN THE FILL AREA SHOWN IN ALTERNATES 3 AND 4.
4. EXCEPT AS CALLED OUT IN NOTES 2 AND 3 ABOVE, ONLY MINOR GRADING IS ANTICIPATED TO SHAPE INDIVIDUAL CAMPSITES TO FIT THE TYPICAL CAMPSITE GRADING DETAIL SHOWN ON SHEET C108.

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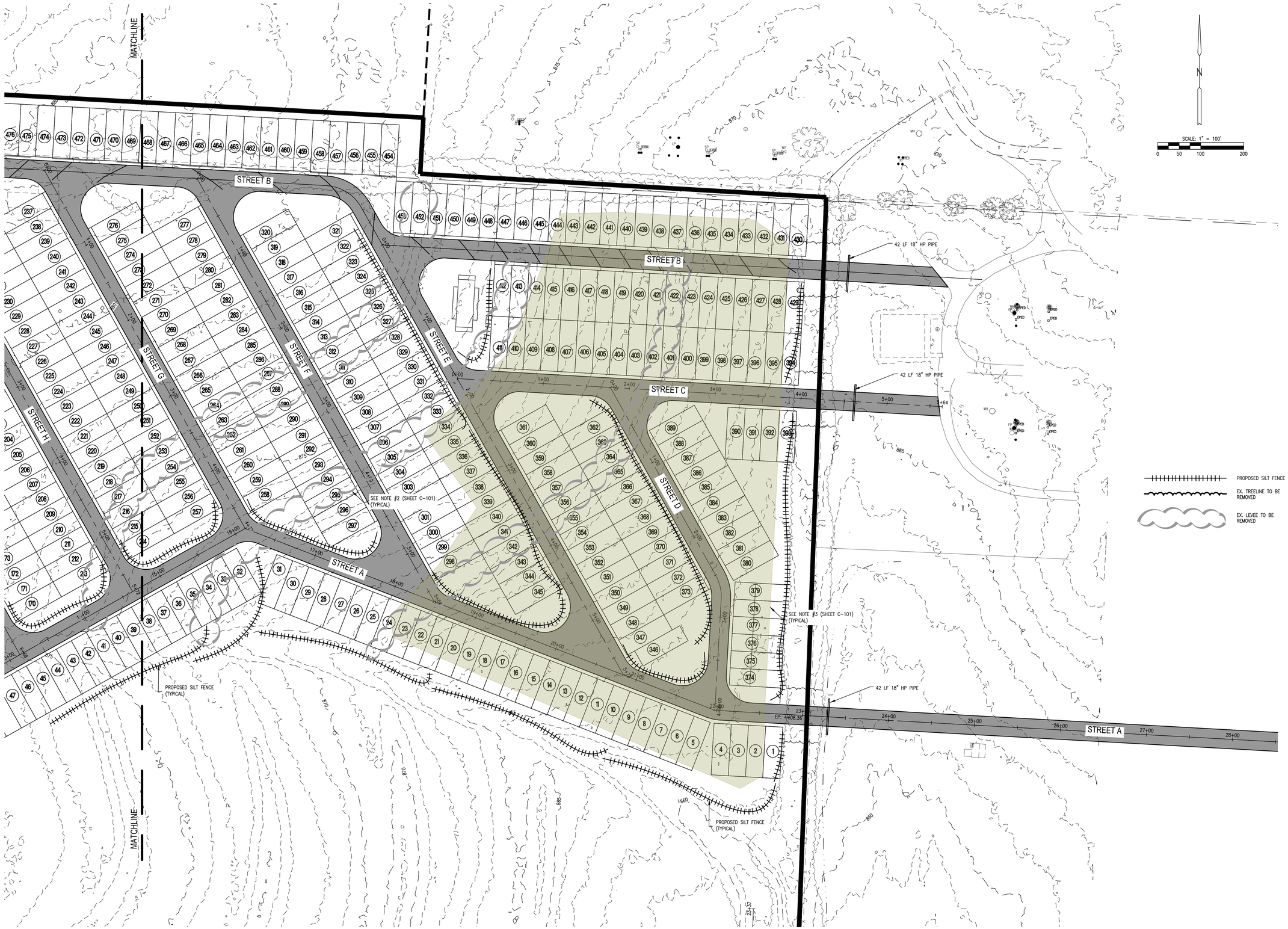
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SHEET NUMBER:
C-101

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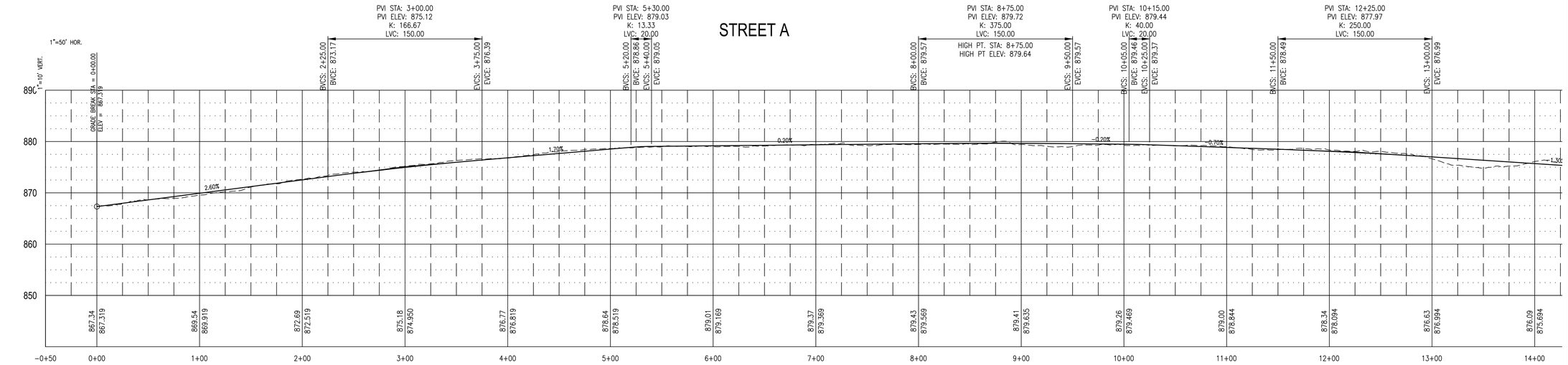
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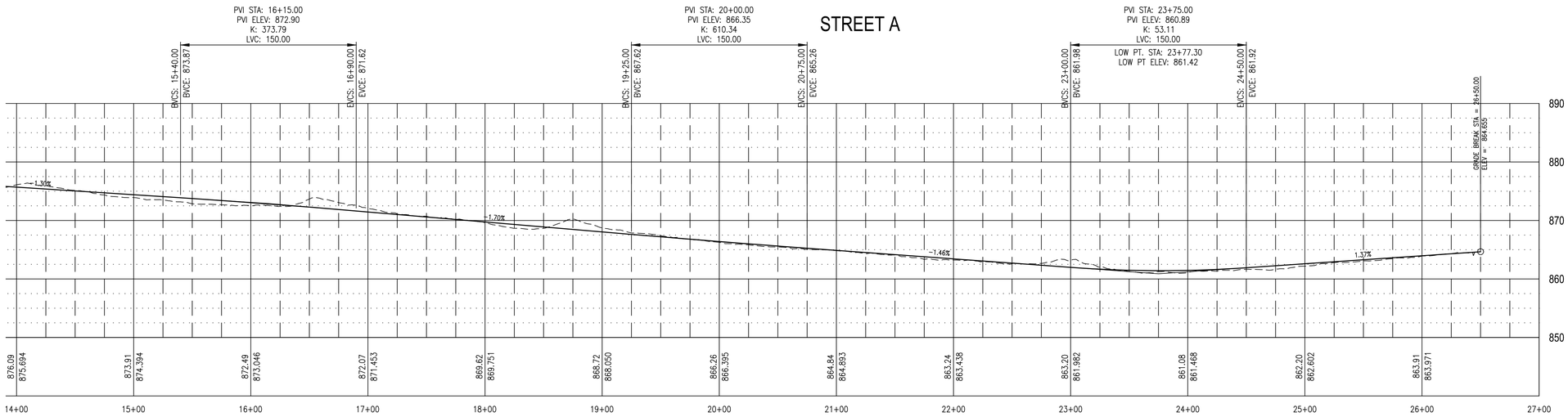
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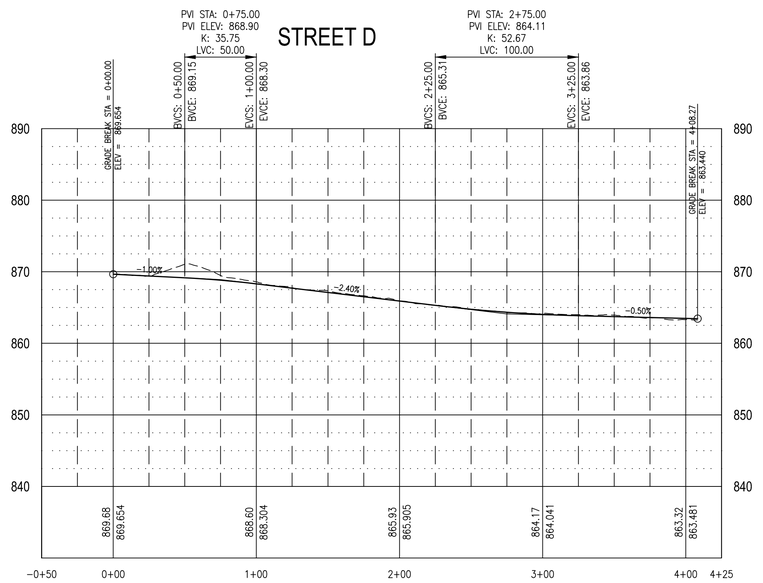
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NEW CAMPGROUND

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PROJECT # F2307-01
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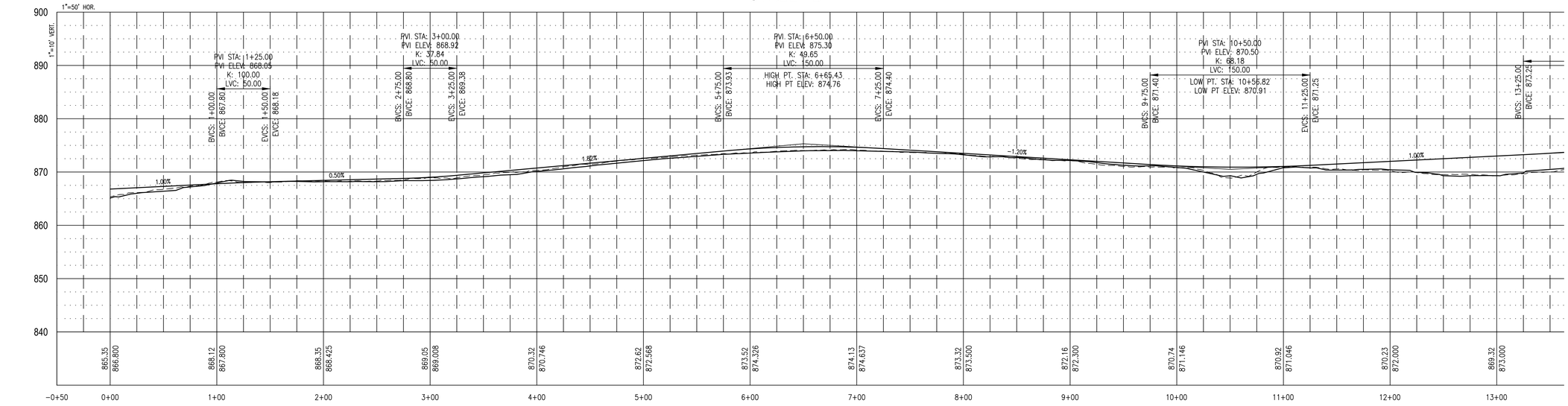
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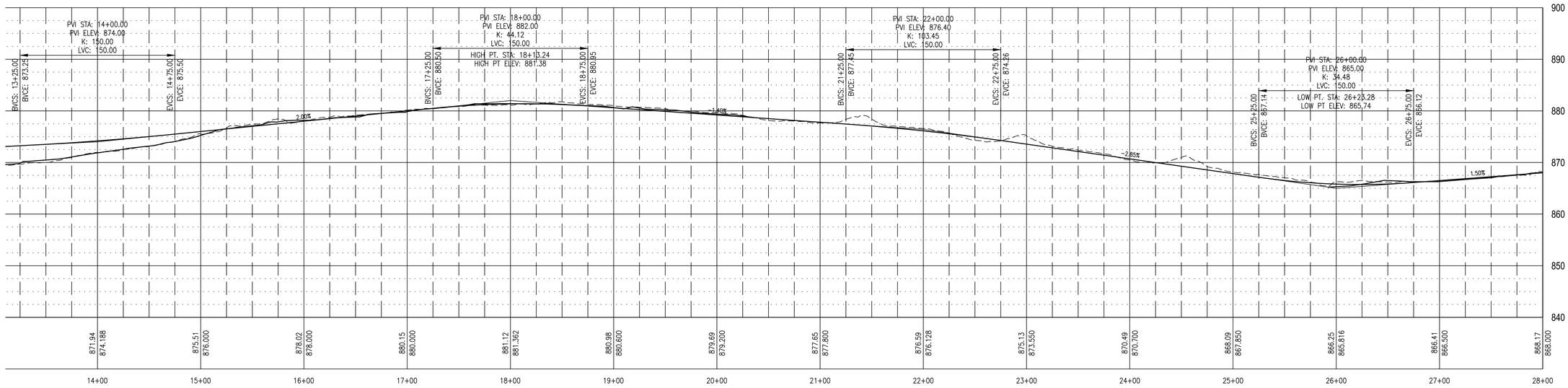
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STREET B



STREET B



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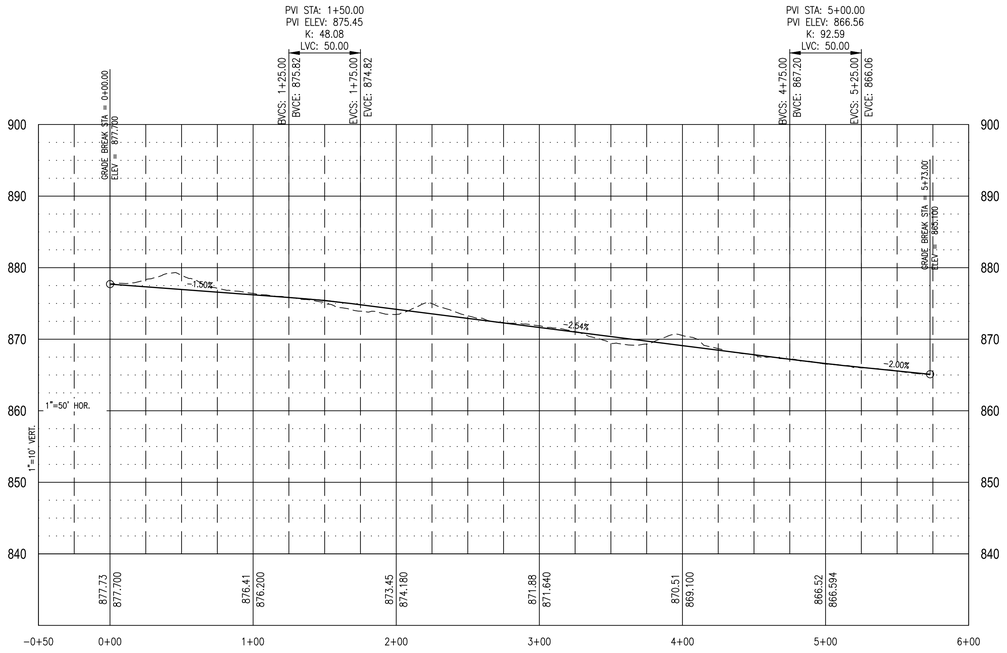
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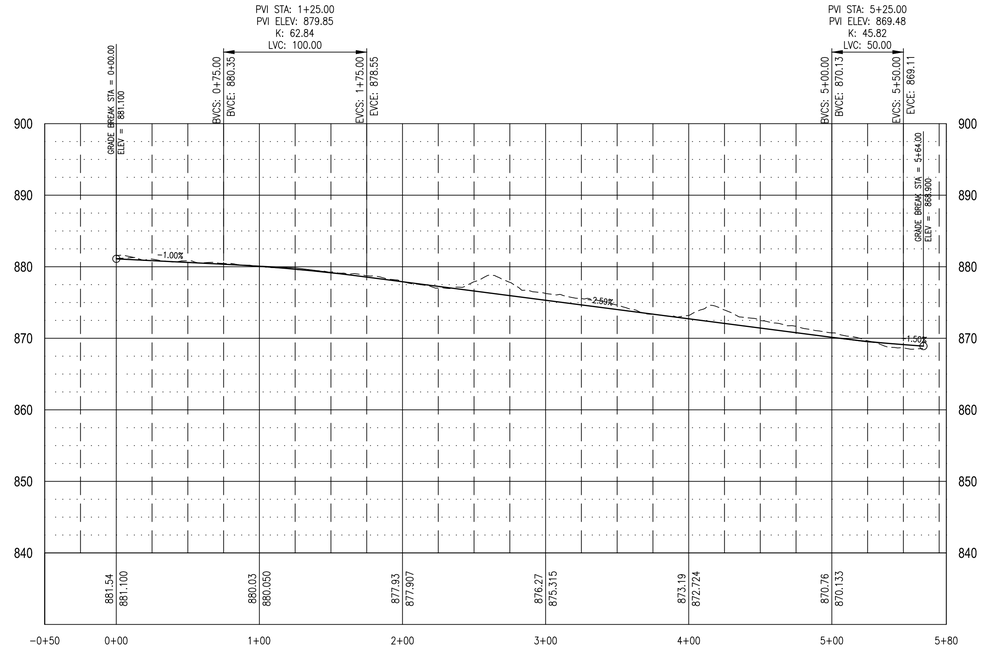
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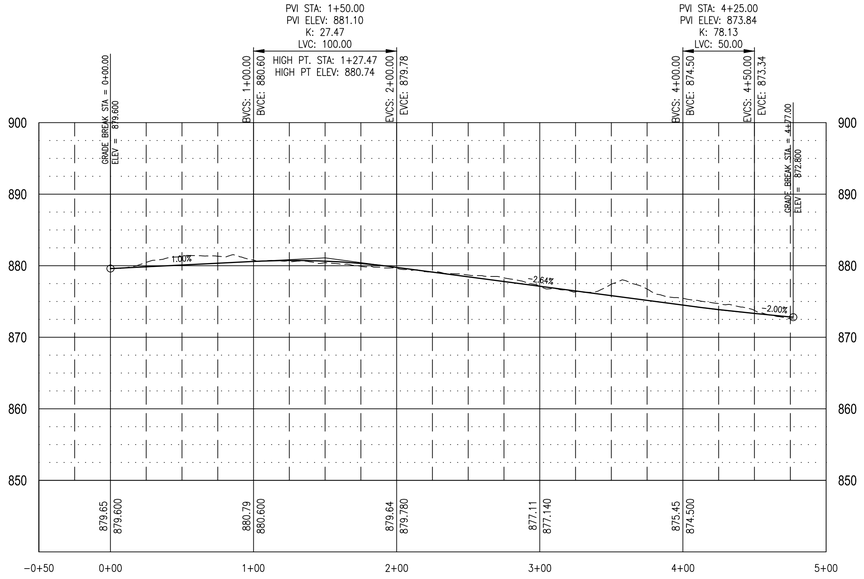
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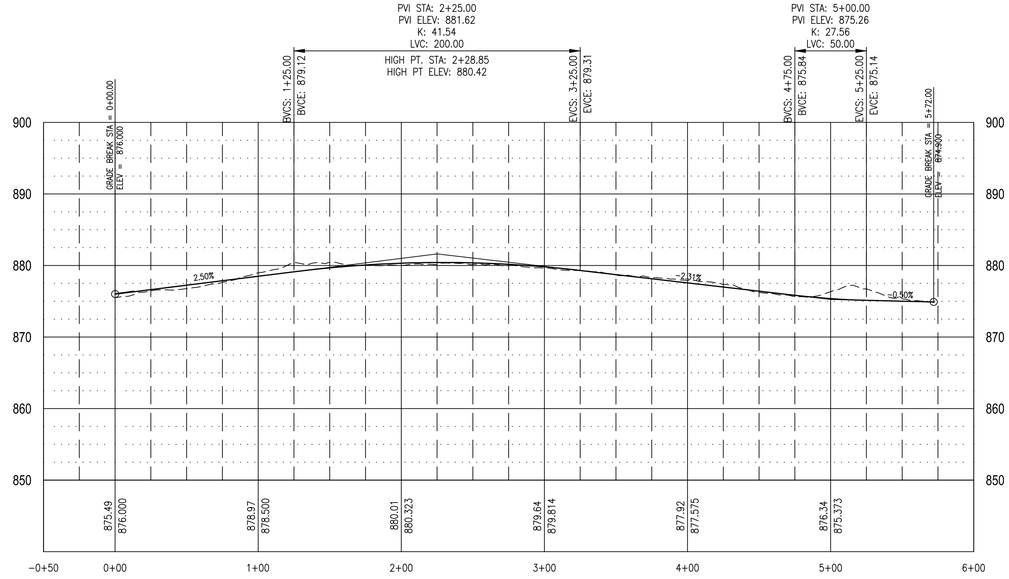
STREET F



STREET G



STREET H



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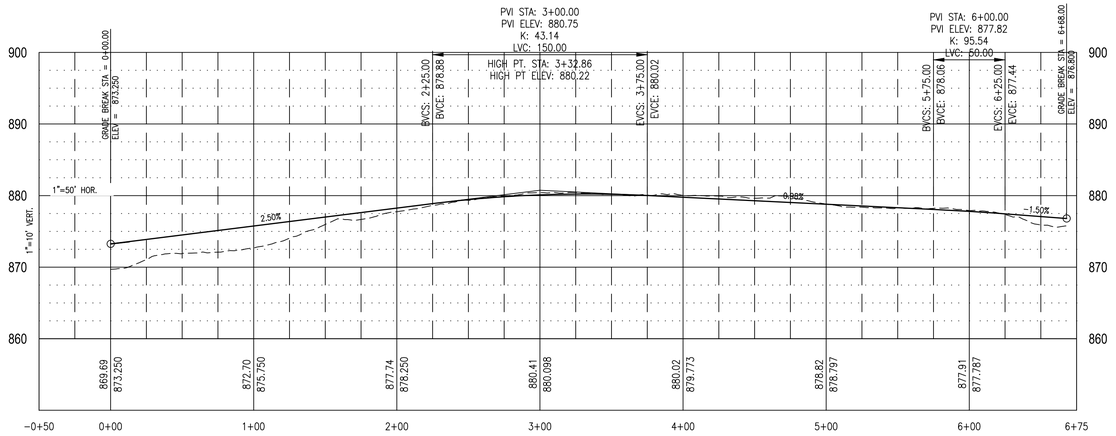
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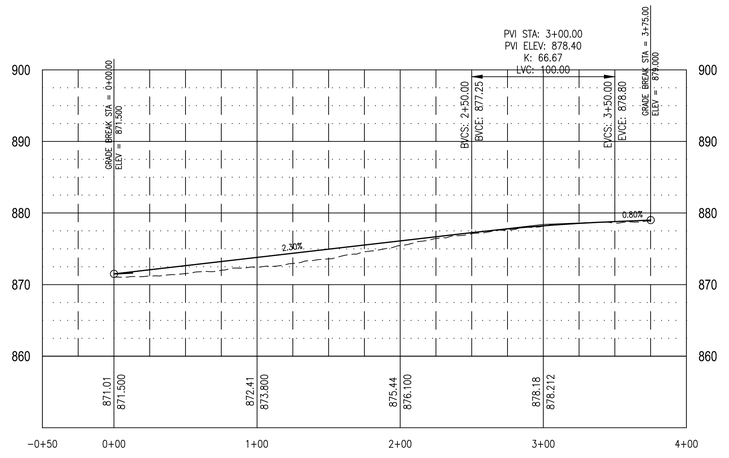
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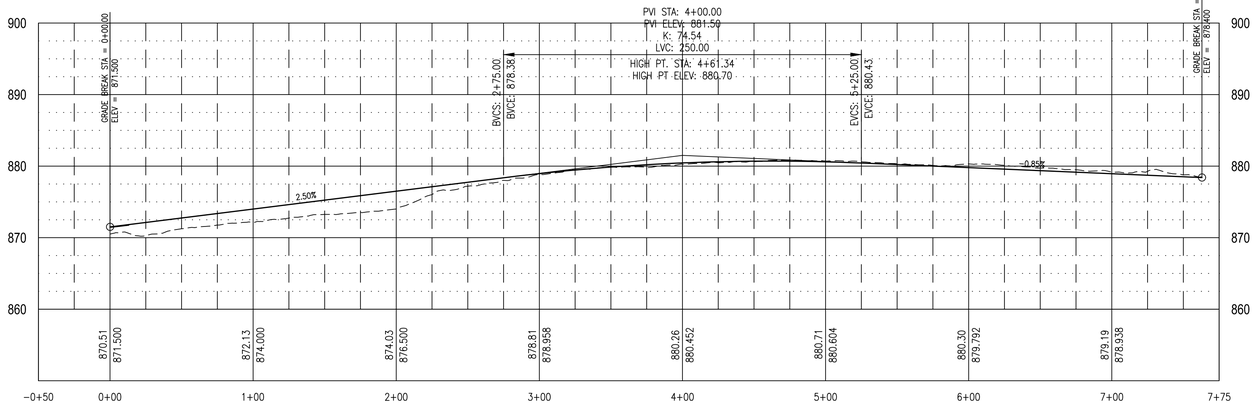
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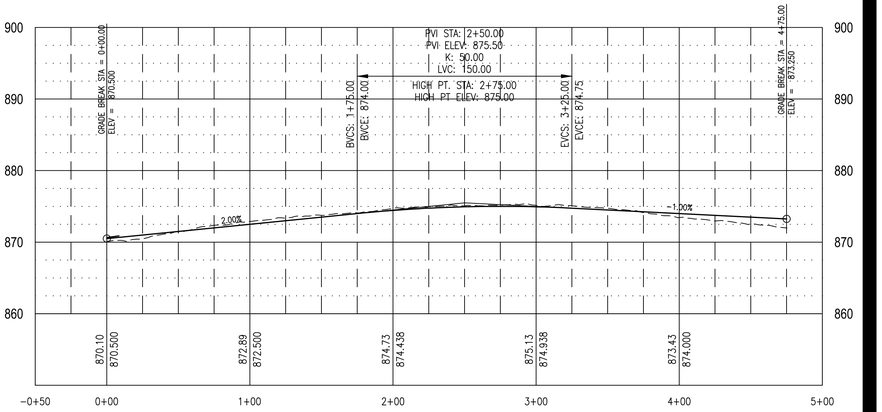
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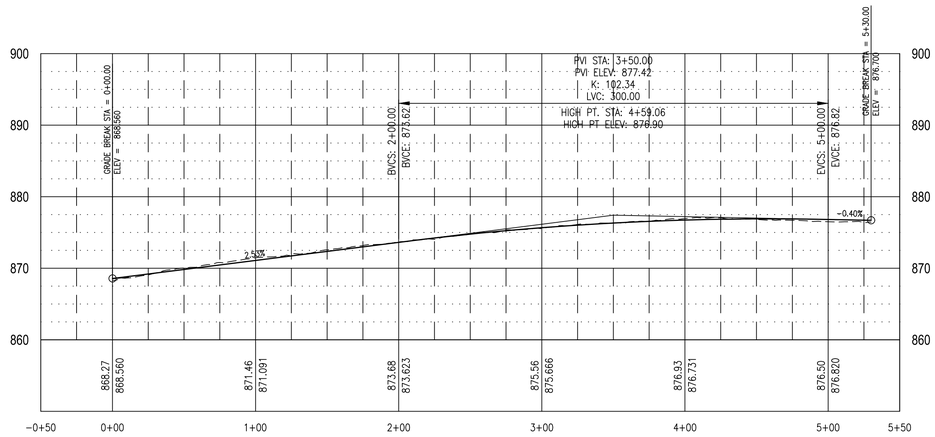
STREET I



STREET L



STREET M



STATE OF MISSOURI
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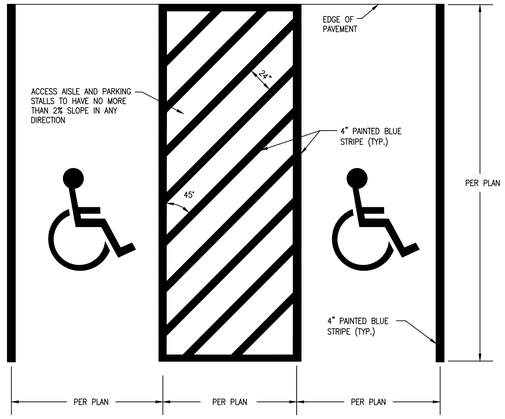
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SHEET TITLE:
STREET PROFILES

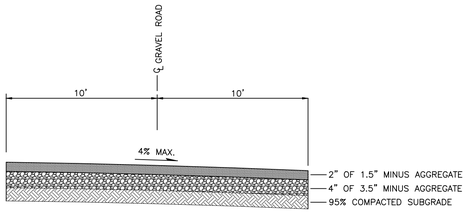
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C-106

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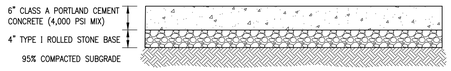
ADA HANDICAP PARKING SPACE DETAIL

(NOT TO SCALE)



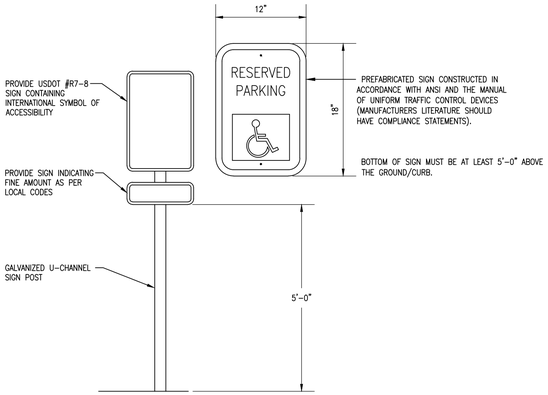
GRAVEL CAMPSITE ACCESS

(NOT TO SCALE)



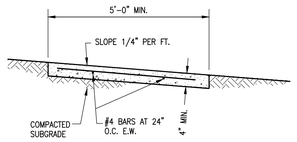
LIGHT DUTY CONCRETE PAVEMENT

(NOT TO SCALE)



ADA HANDICAP PARKING SIGN

(NOT TO SCALE)

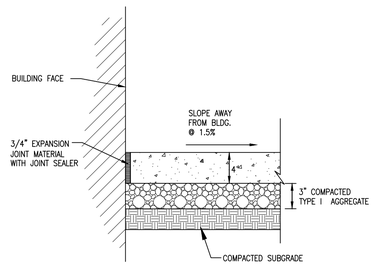


NOTE:

1. SIDEWALK SHALL BE 4" THICK CLASS A CONCRETE, LIGHT BROOM FINISH WITH NO TOOLED BORDER.
2. INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS AND STRUCTURES.
3. INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
4. FOR SIDEWALKS WIDER THAN 6 FEET, INSTALL LONGITUDINAL SAW JOINT AT ℄, TRANSVERSE SAW JOINT SPACING EQUAL TO 1/2 SIDEWALK WIDTH.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
6. ALL EXTERIOR CONCRETE SHALL BE SEALED WITH SPECSILANE 20 WB.

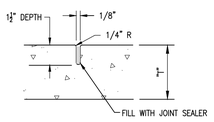
SIDEWALK DETAIL

(NOT TO SCALE)



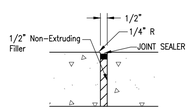
SIDEWALK/CONCRETE PAD AT BUILDING

(NOT TO SCALE)



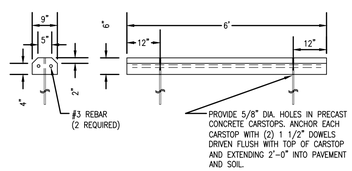
SAWED CONTROL JOINT

(NOT TO SCALE)



EXPANSION JOINT W/O REBAR

(NOT TO SCALE)



WHEEL STOP DETAIL

(NOT TO SCALE)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-DETAILS.dwg
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:

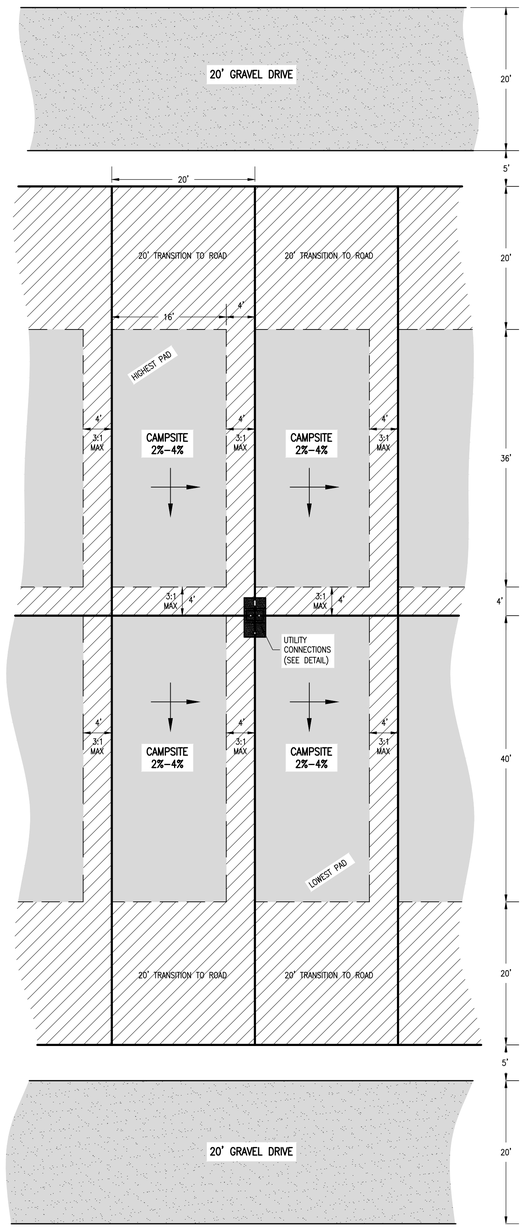
DETAILS

SHEET NUMBER:

C-107

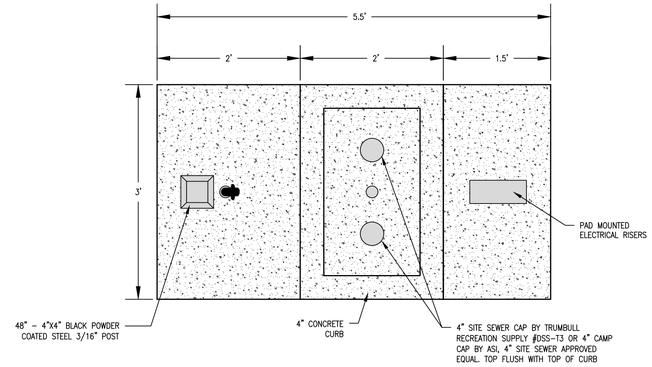
10 OF 59
09/19/2025

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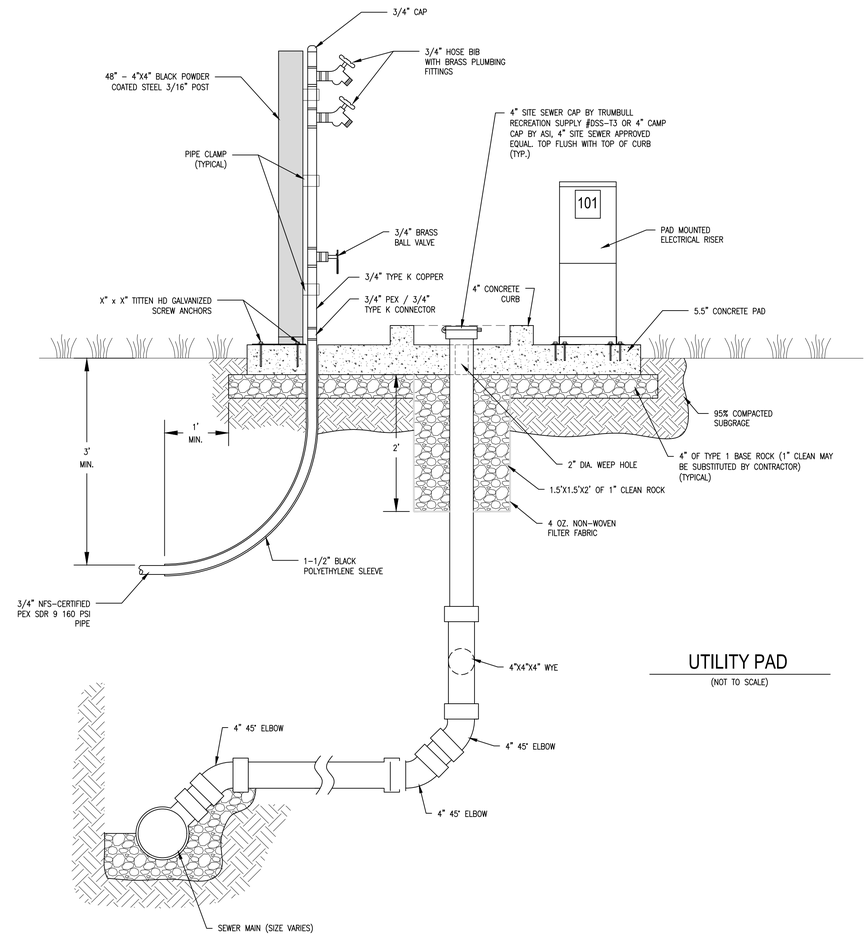
TYPICAL CAMPSITE LAYOUT

(NOT TO SCALE)



TYPE II UTILITY PAD

(NOT TO SCALE)



UTILITY PAD

(NOT TO SCALE)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
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2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
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REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-DETAILS.dwg
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:

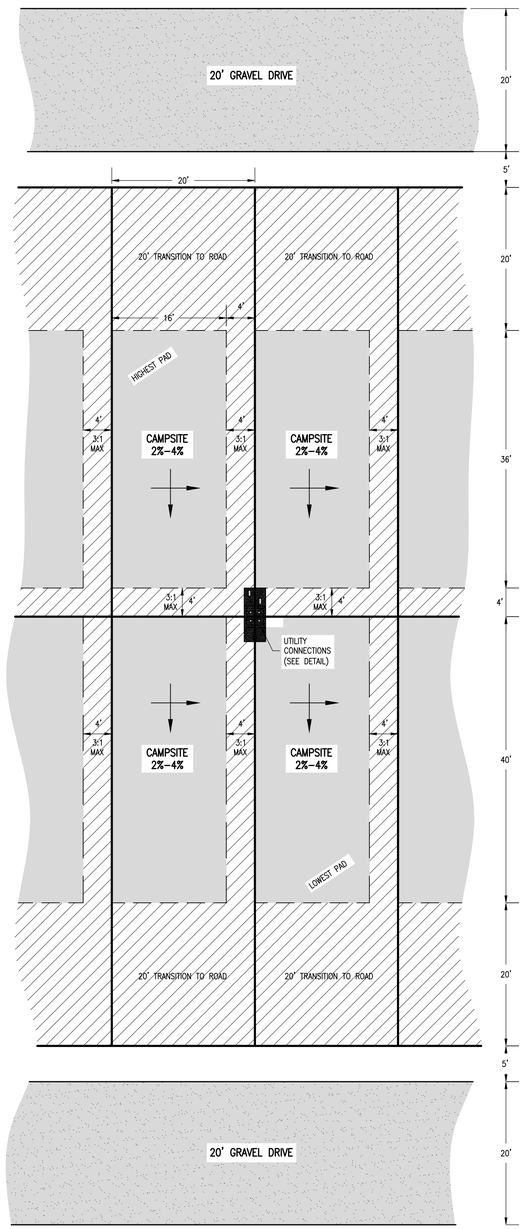
DETAILS

SHEET NUMBER:

C-108

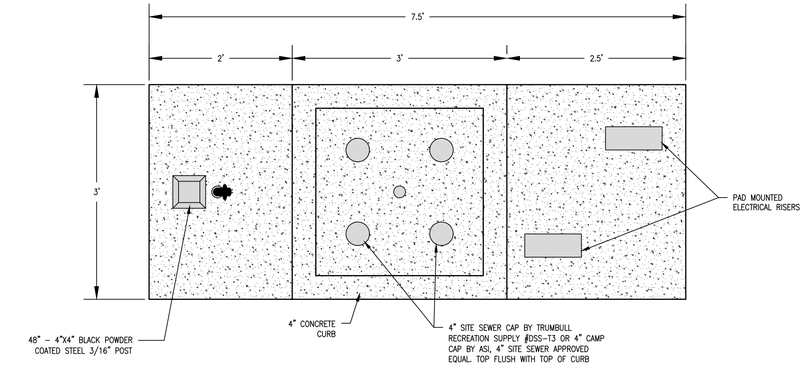
11 OF 59
09/19/2025

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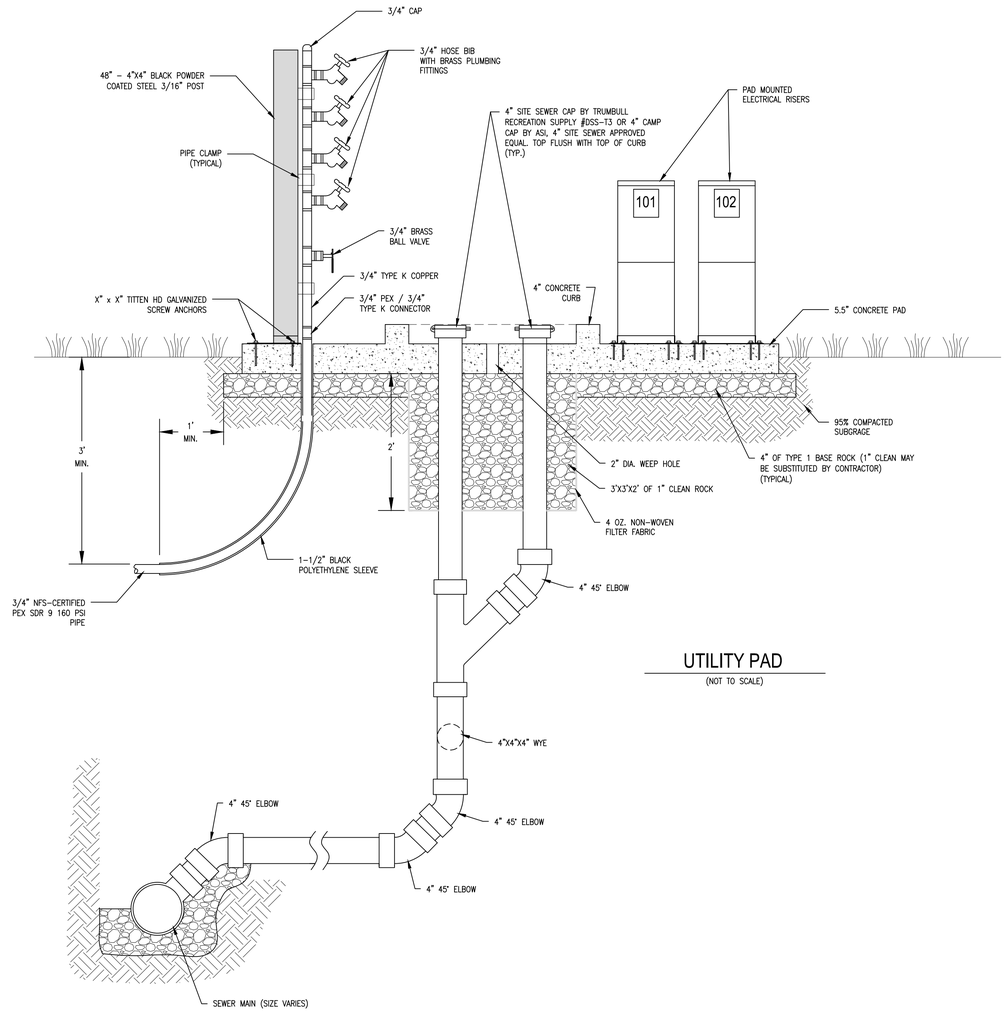
TYPICAL CAMPSITE LAYOUT

(NOT TO SCALE)



TYPE IV UTILITY PAD

(NOT TO SCALE)



UTILITY PAD

(NOT TO SCALE)

STATE OF MISSOURI
MIKE KEHOE,
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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
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ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-DETAILS.dwg
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:

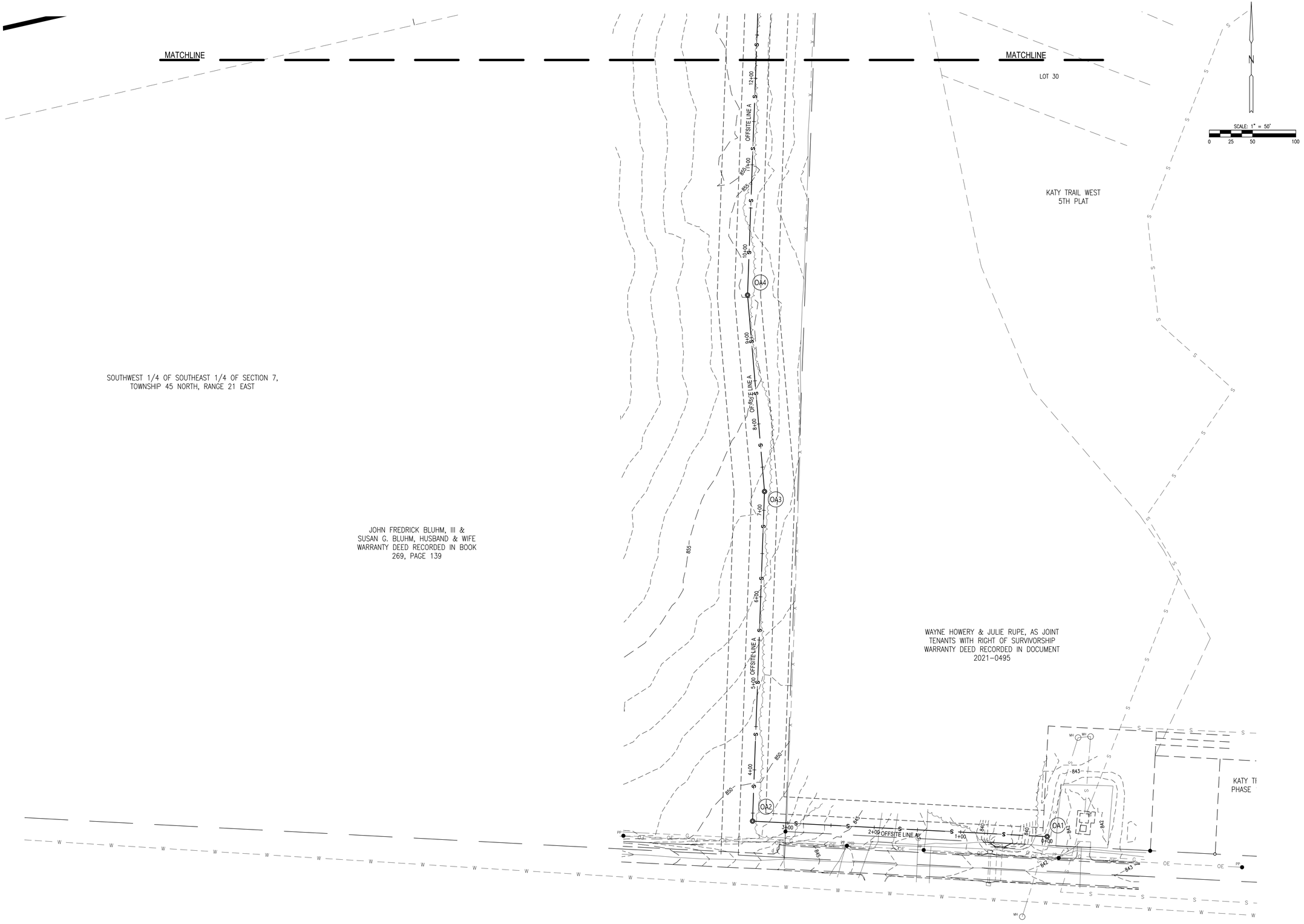
DETAILS

SHEET NUMBER:

C-109

12 OF 59
09/19/2025

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STATE OF MISSOURI
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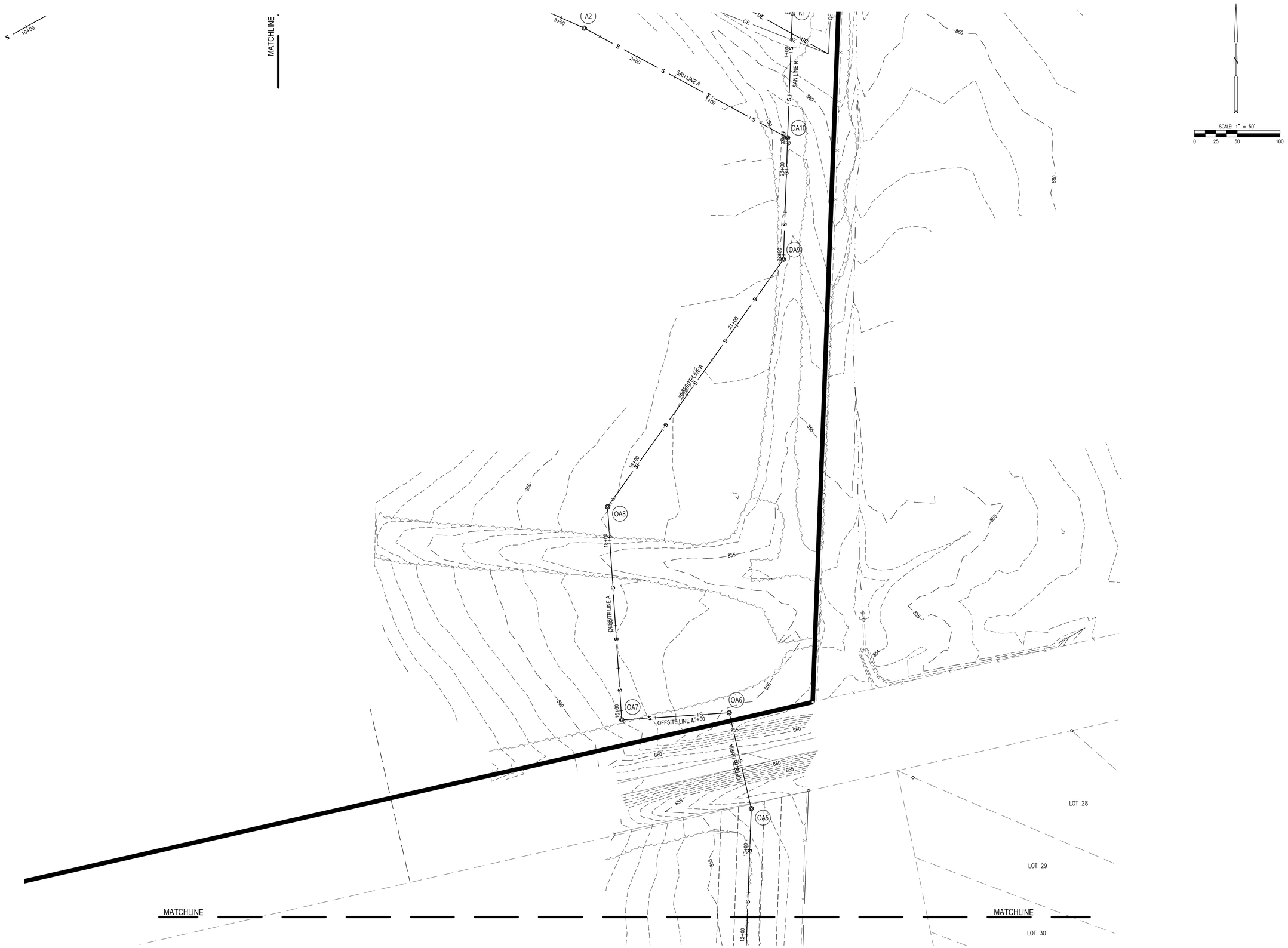
SANITARY SEWER PLAN

SHEET NUMBER:

C-201

13 OF 59
09/19/2025

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DRAWN BY: DEP
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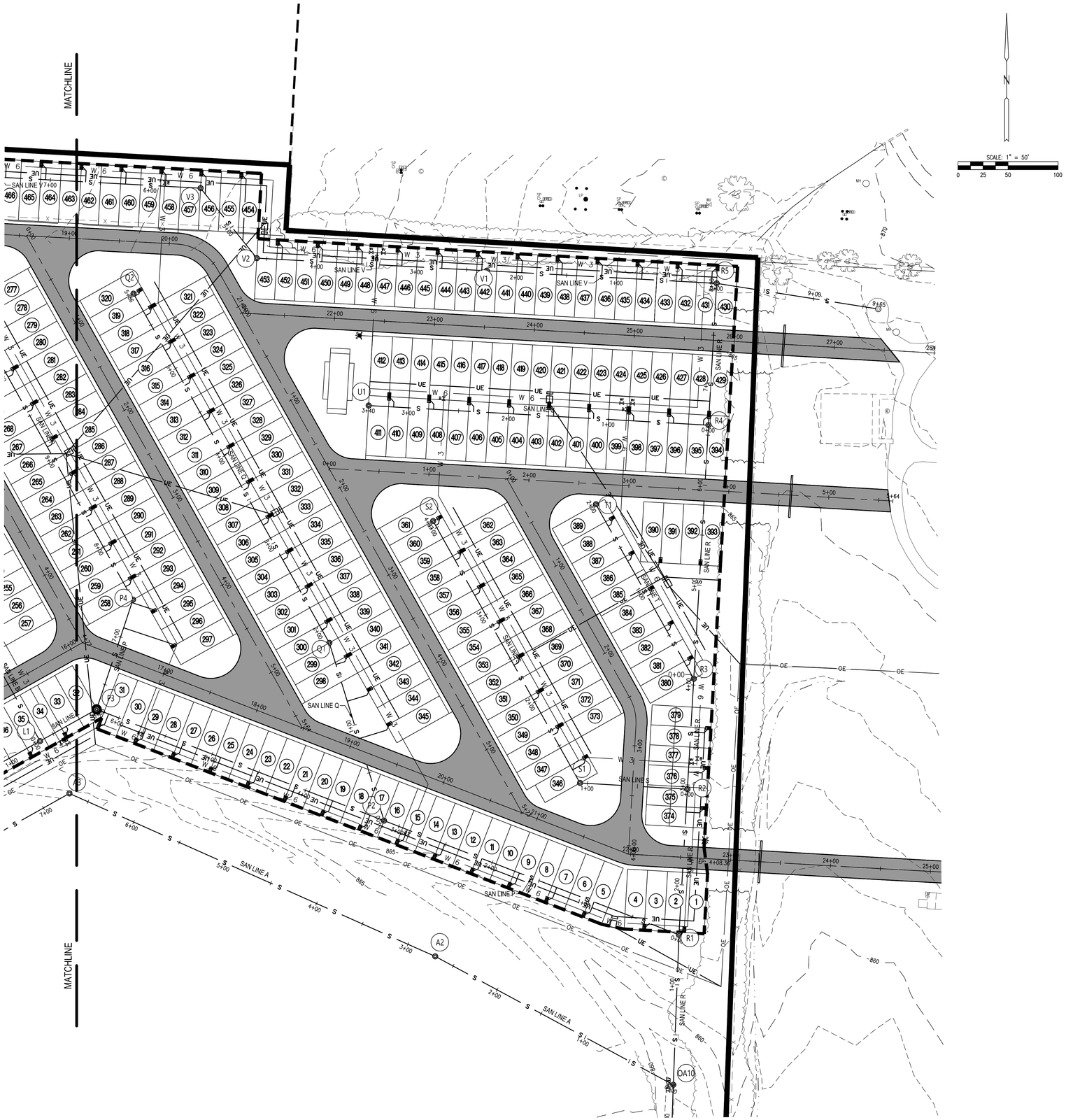
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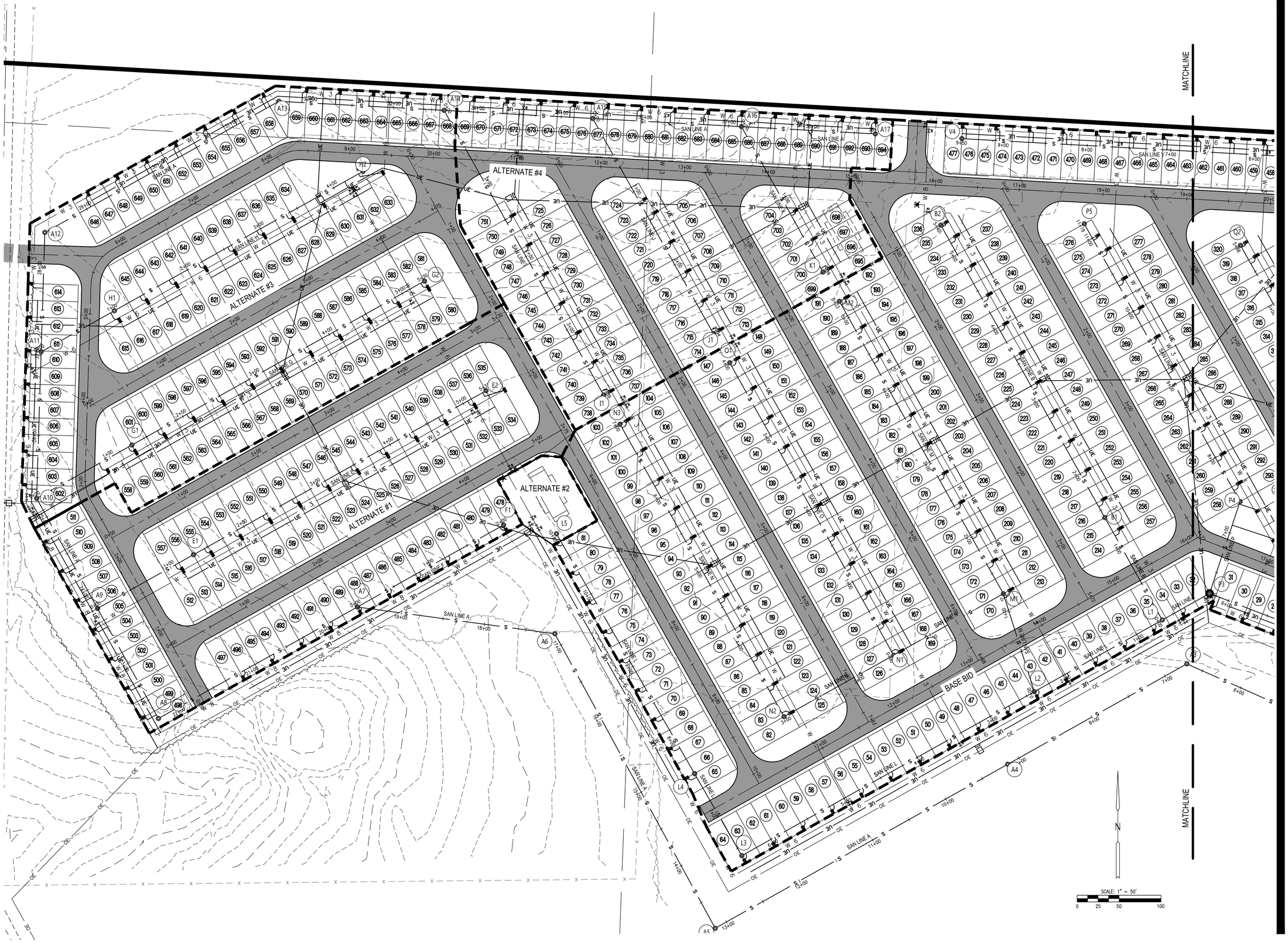
SANITARY SEWER PLAN

SHEET NUMBER:

C-202

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SAN LINE BID
SAN LINE BIE
SAN LINE BIF
SAN LINE BIG
SAN LINE BIH
SAN LINE BII
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SAN LINE BIL
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SAN LINE BJY
SAN LINE BJZ
SAN LINE BKA
SAN LINE BKB
SAN LINE BKC
SAN LINE BKD
SAN LINE BKE
SAN LINE BKF
SAN LINE BKG
SAN LINE BKH
SAN LINE



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

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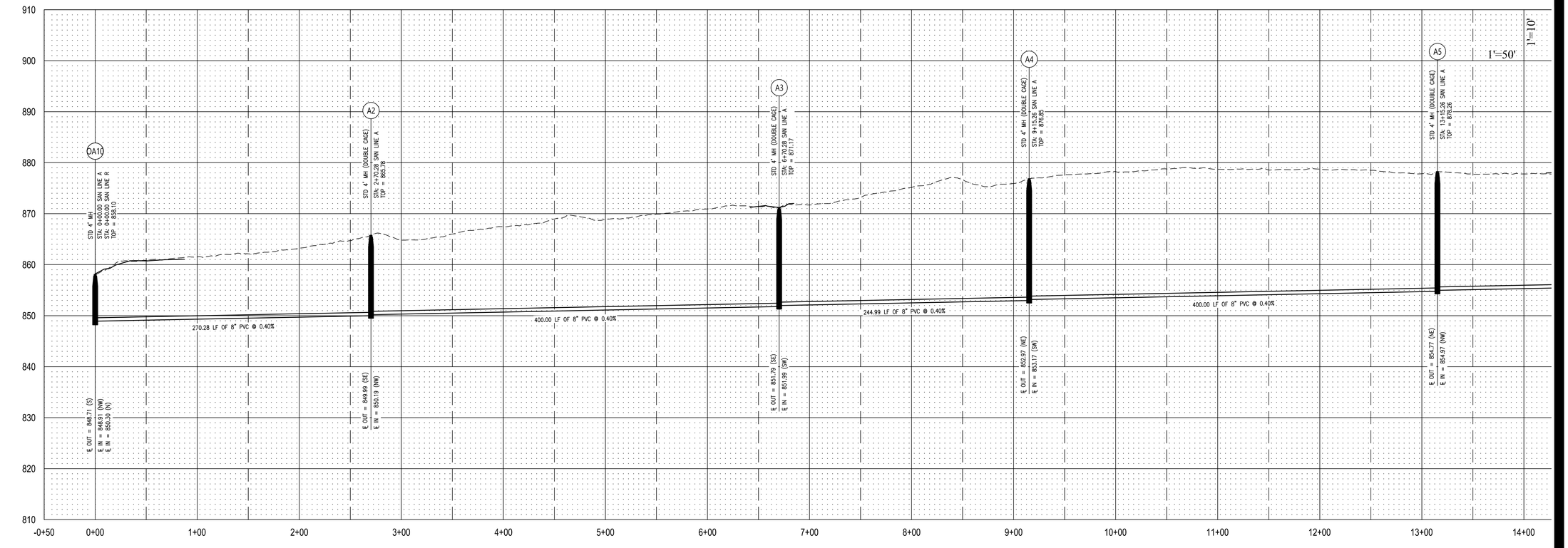
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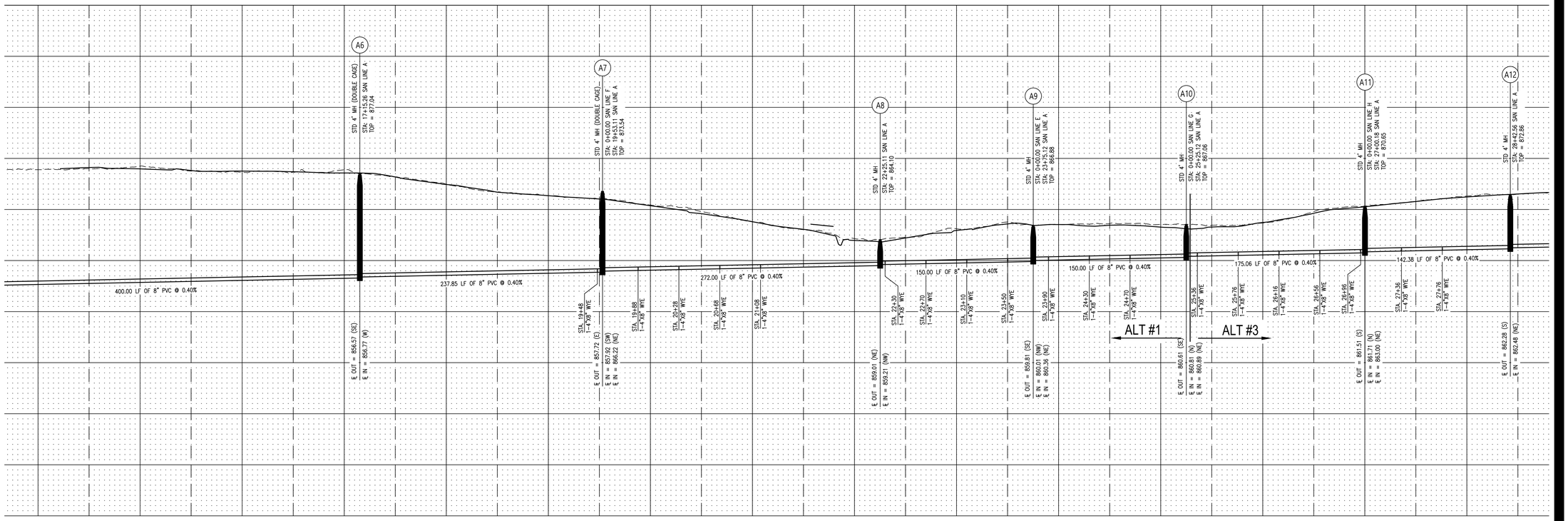
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16 OF 59
09/19/2025

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SAN LINE A (ALTERNATE #1, #3 & #4)

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MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
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NEW CAMPGROUND

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DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

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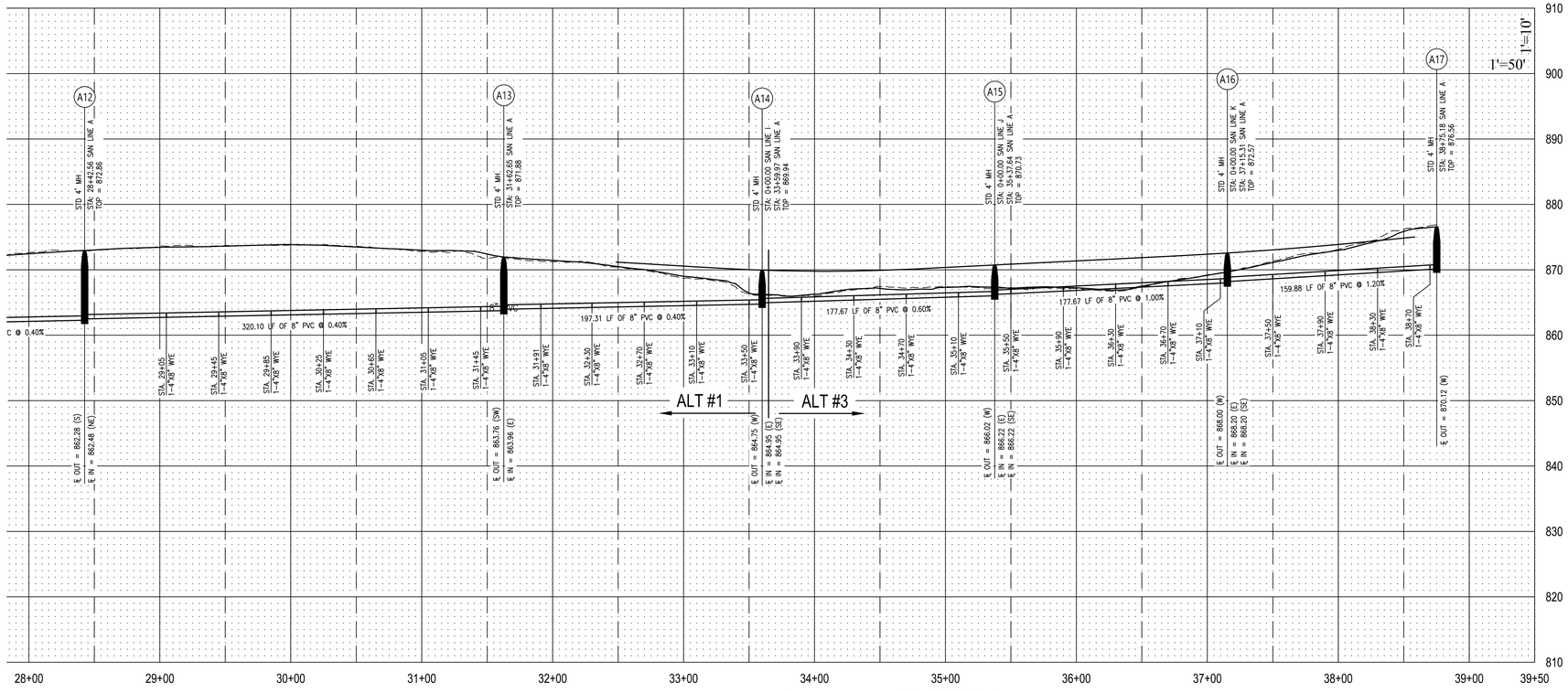
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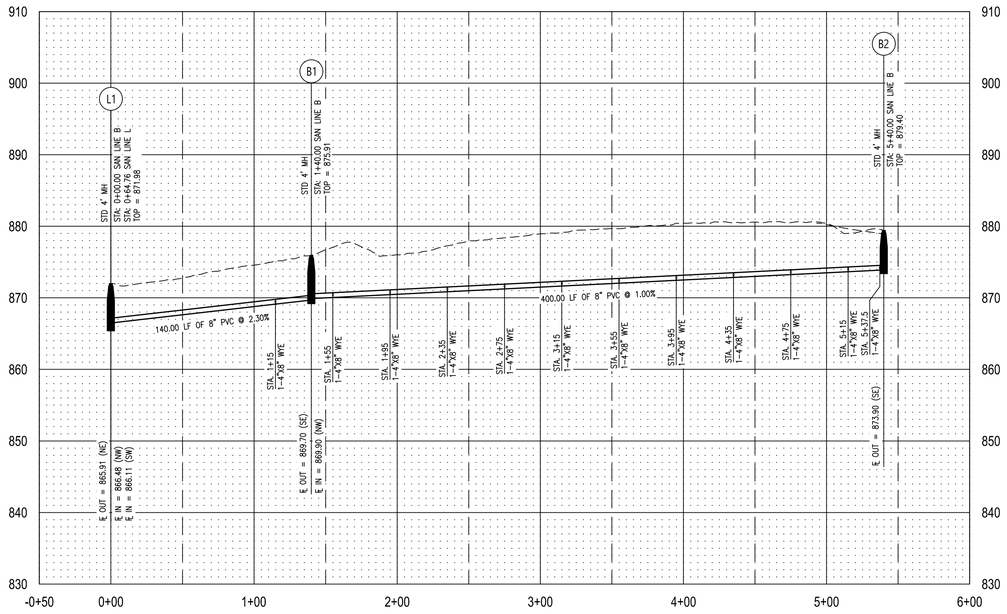
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09/19/2025

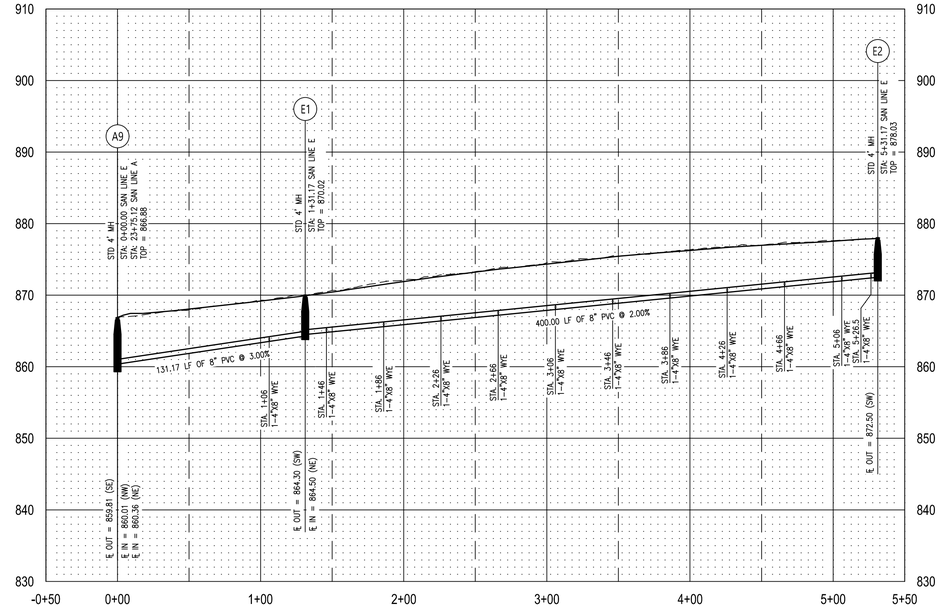
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(ALTERNATE #1, #3 & #4)



SAN LINE B (BASE BID)



SAN LINE E (ALTERNATE #1)

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MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
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PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

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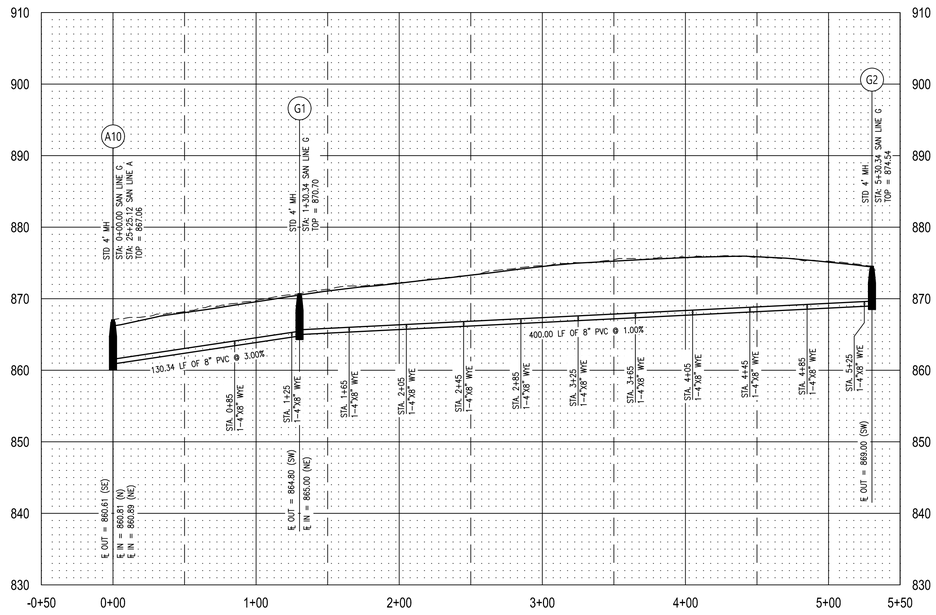
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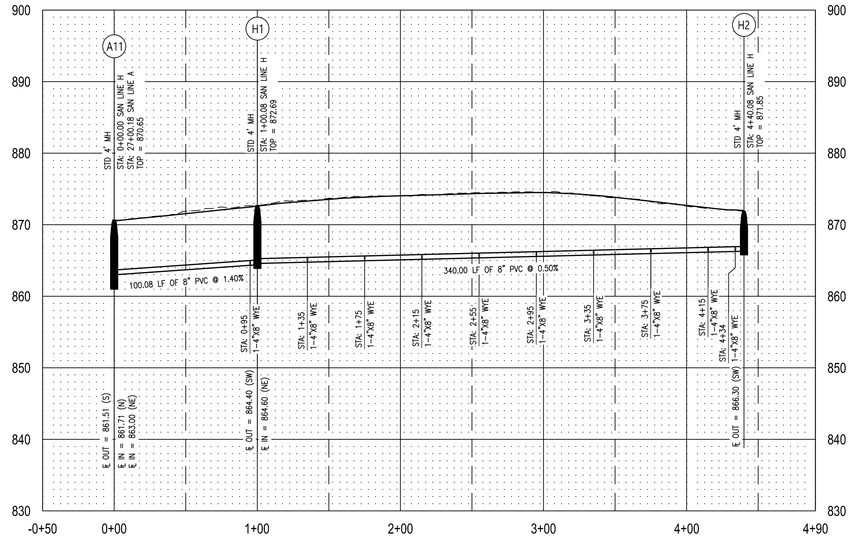
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09/19/2025

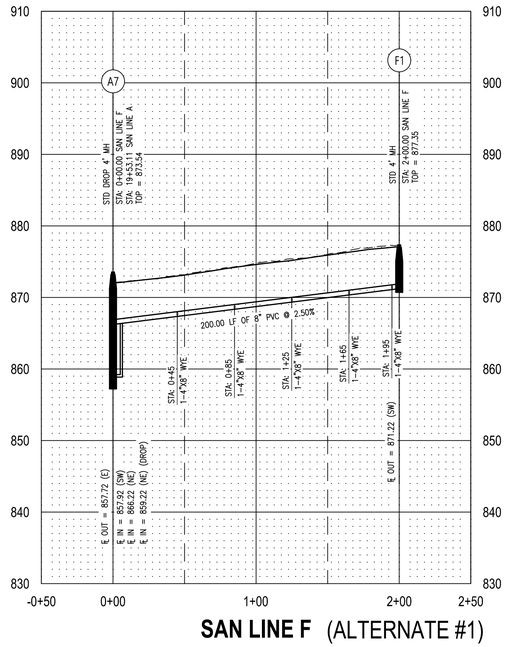
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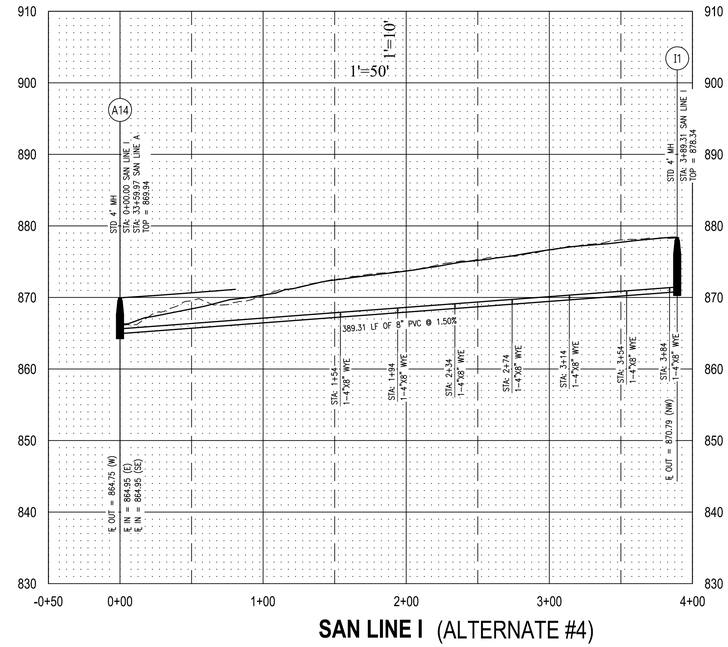
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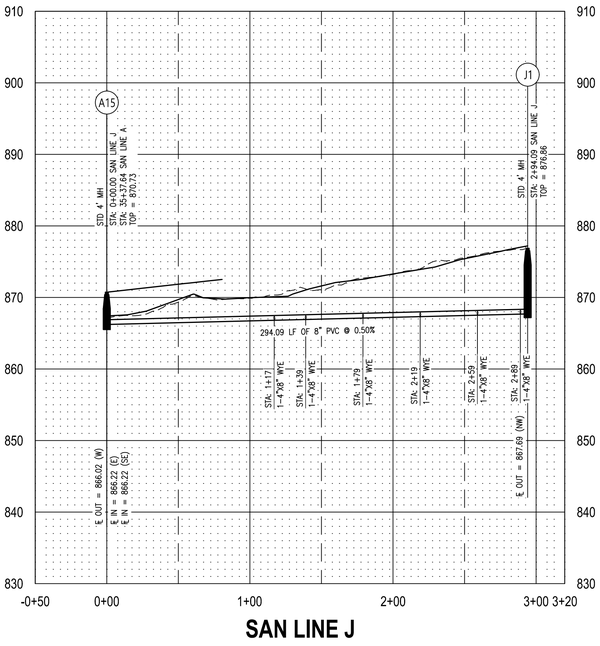
SAN LINE H (ALTERNATE #3)



SAN LINE F (ALTERNATE #1)



SAN LINE I (ALTERNATE #4)



SAN LINE J

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
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PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
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REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

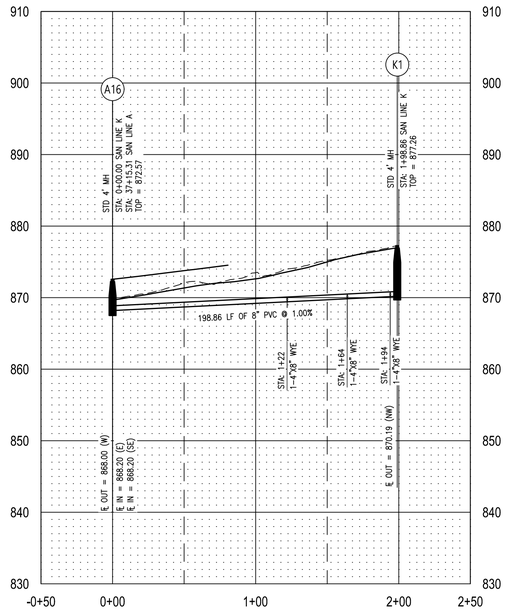
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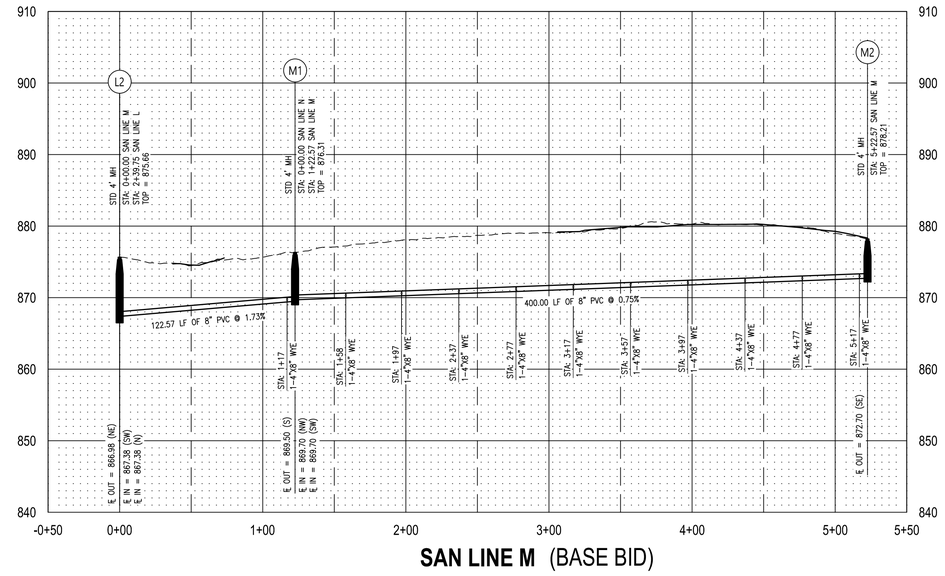
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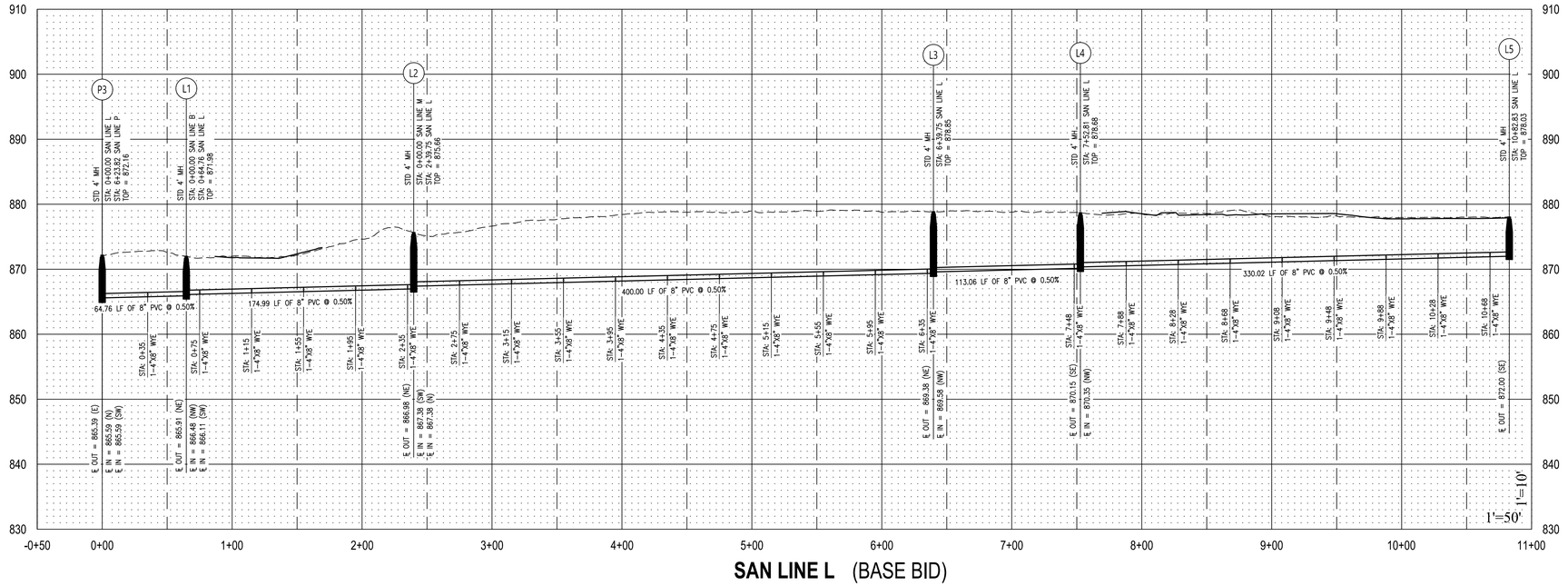
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SAN LINE K (ALTERNATE #4)



SAN LINE M (BASE BID)



SAN LINE L (BASE BID)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
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PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
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DATE:
REVISION:
DATE:

ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:

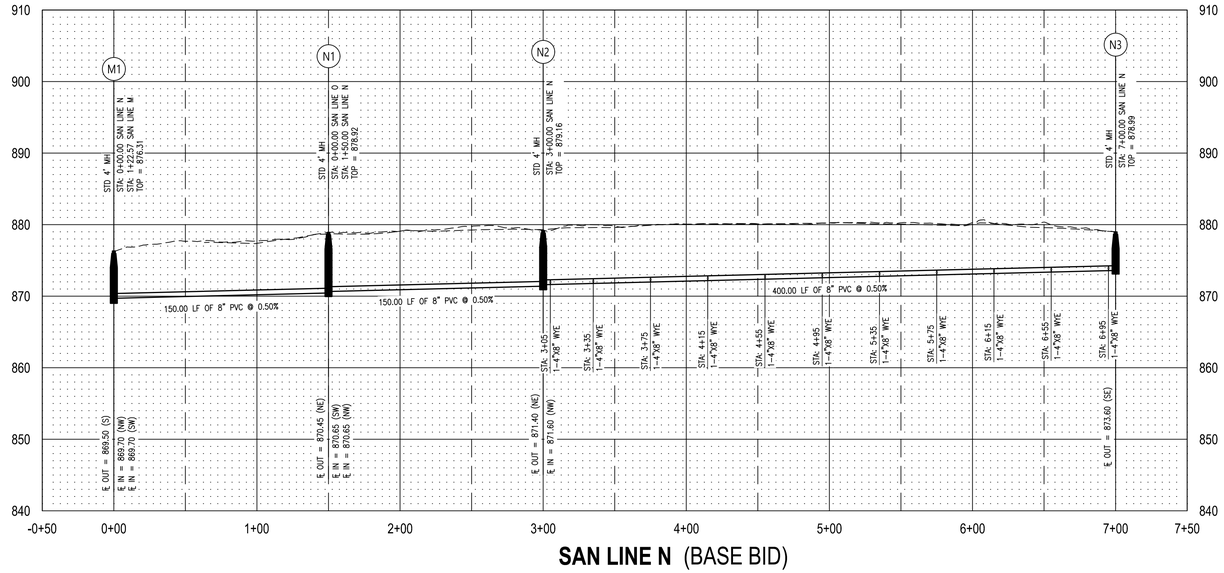
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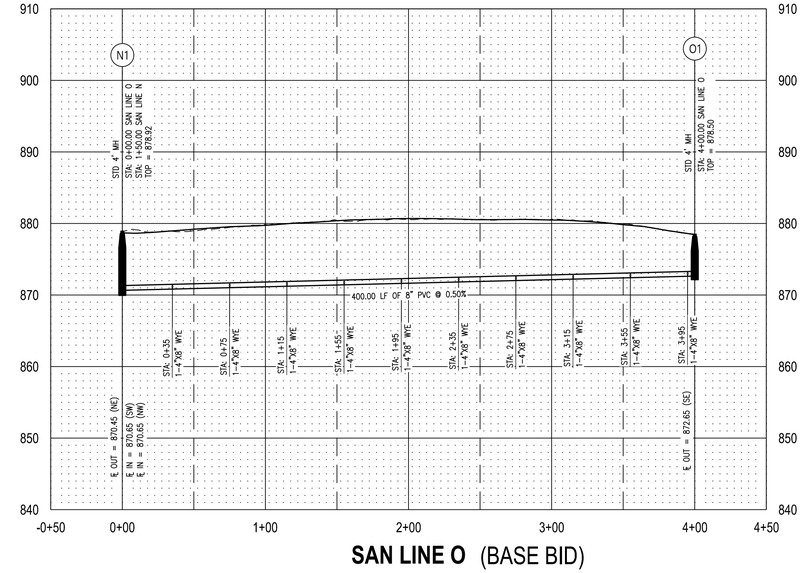
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09/19/2025

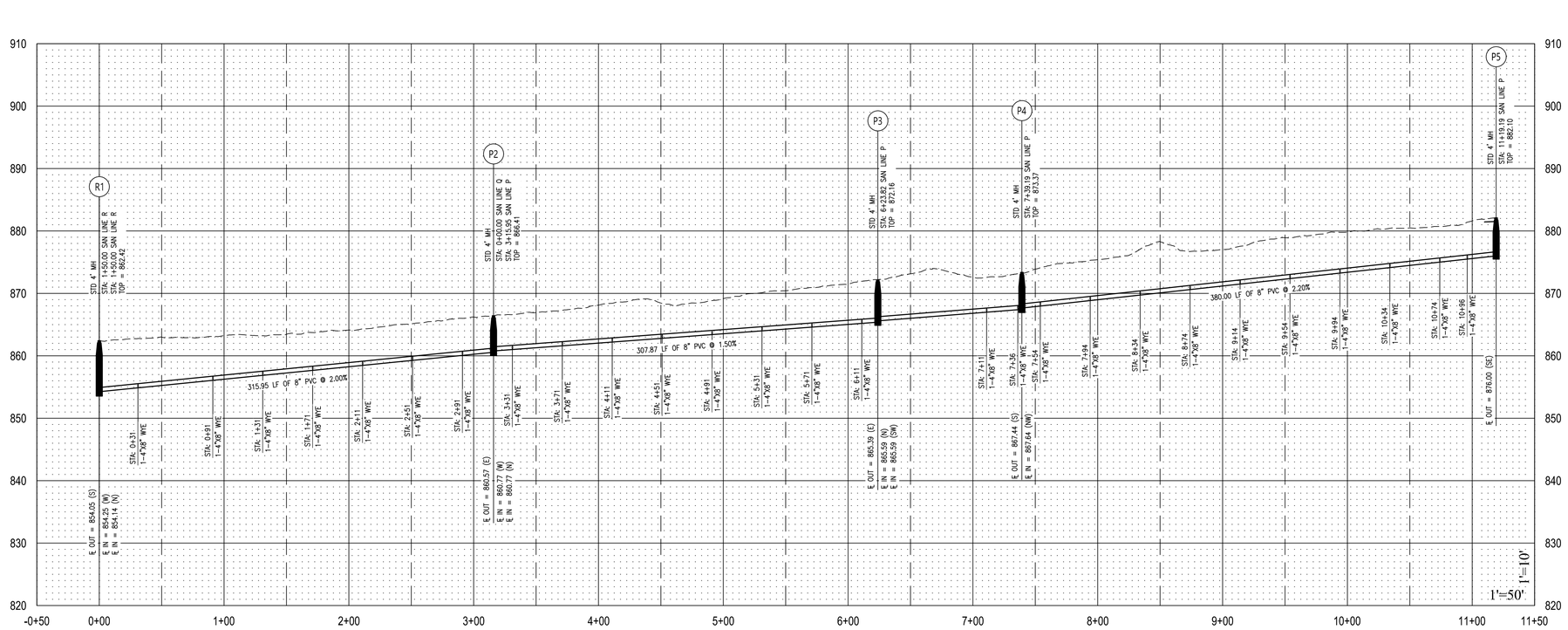
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SAN LINE N (BASE BID)



SAN LINE O (BASE BID)



SAN LINE P (BASE BID)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

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CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

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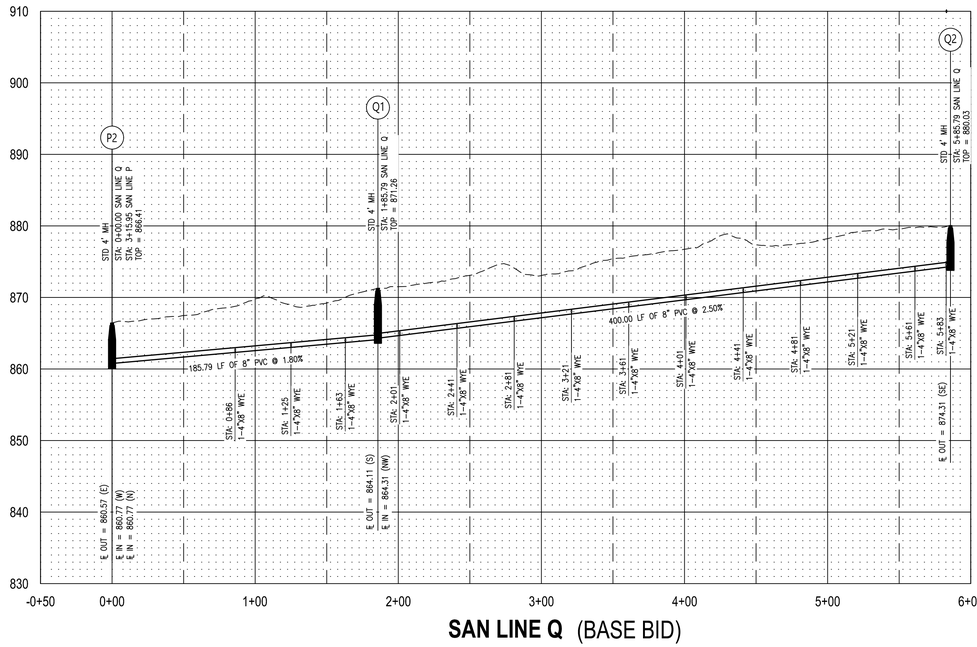
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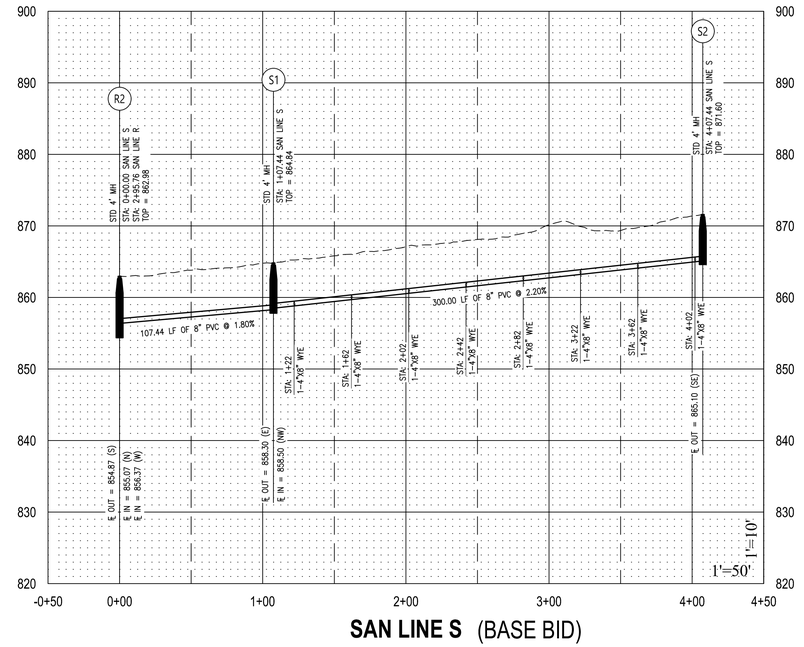
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09/19/2025

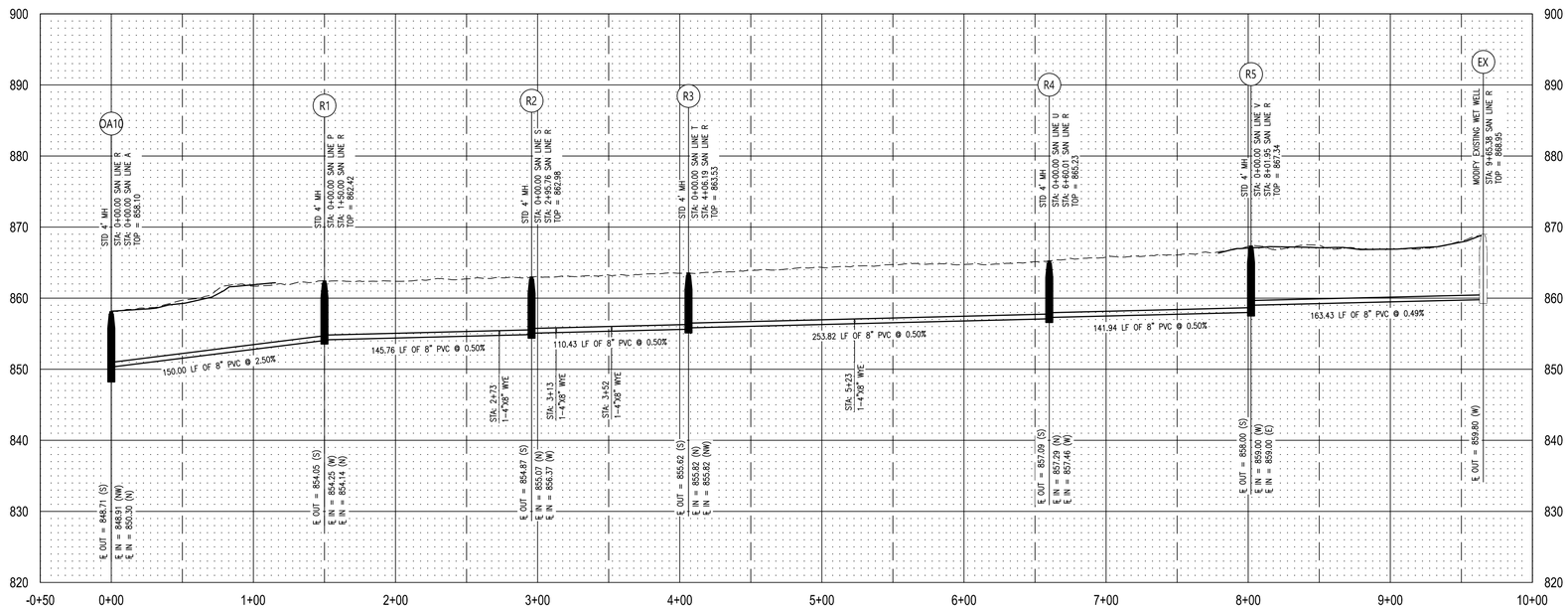
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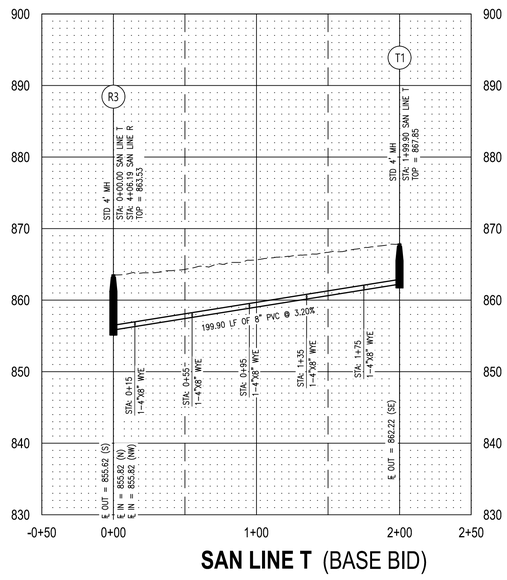
SAN LINE Q (BASE BID)



SAN LINE S (BASE BID)



SAN LINE R (BASE BID)



SAN LINE T (BASE BID)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
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MISSOURI
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NEW CAMPGROUND

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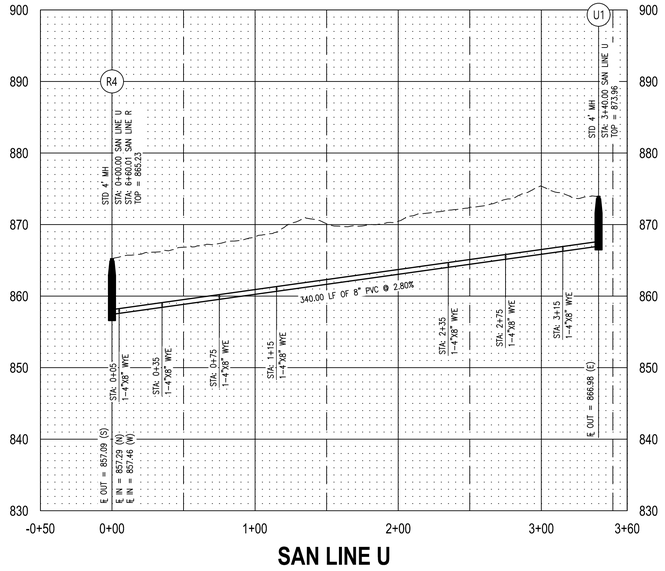
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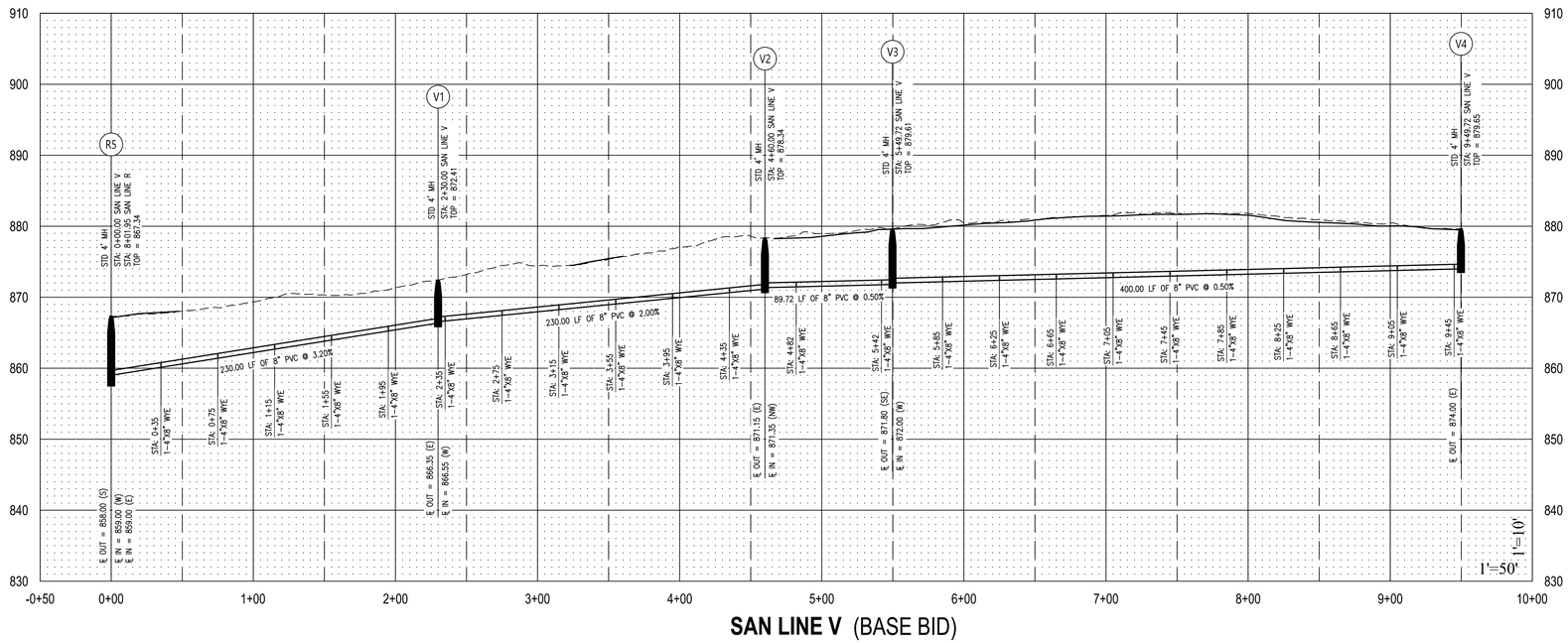
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09/19/2025

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SAN LINE U



SAN LINE V (BASE BID)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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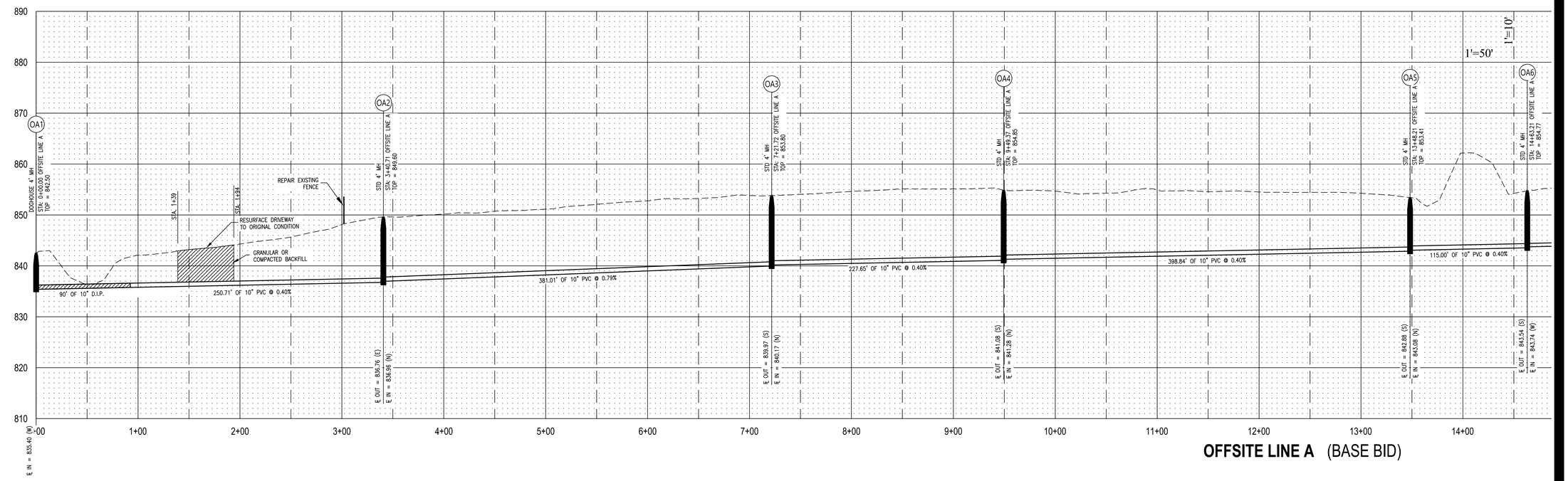
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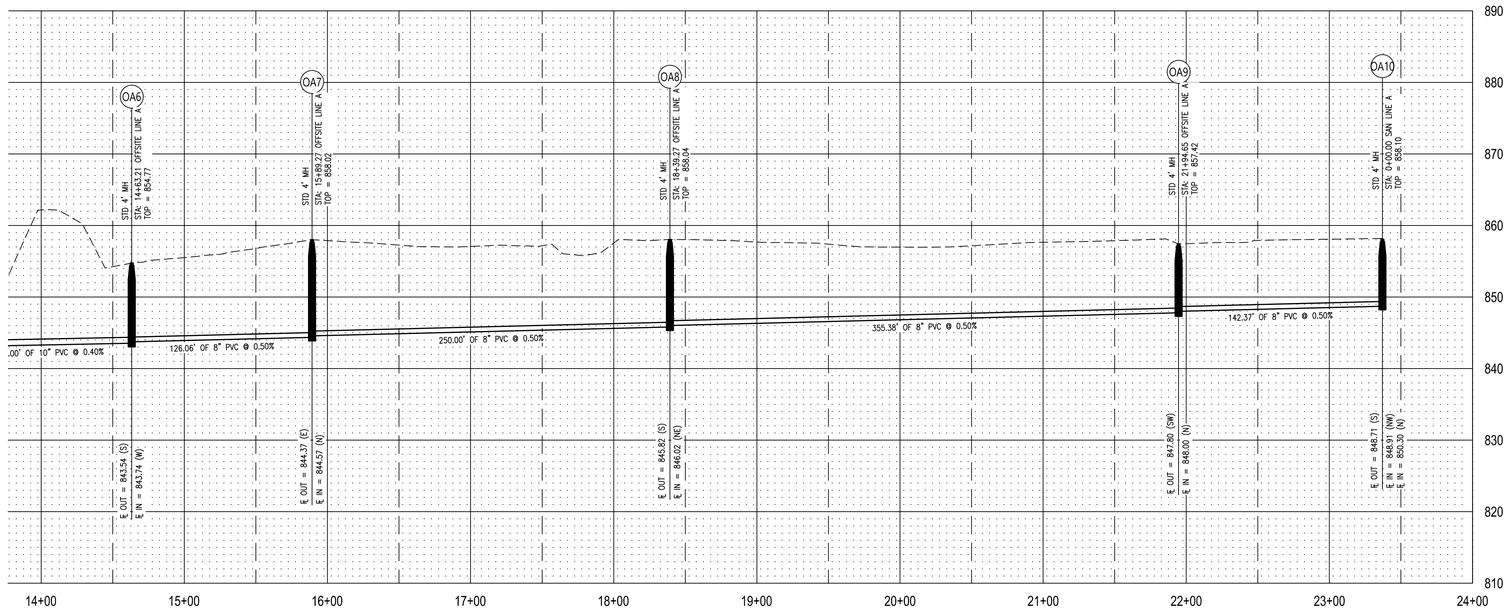
C-211

23 OF 59
09/19/2025

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OFFSITE LINE A (BASE BID)



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

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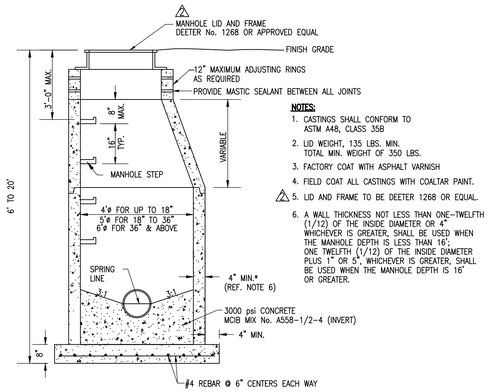
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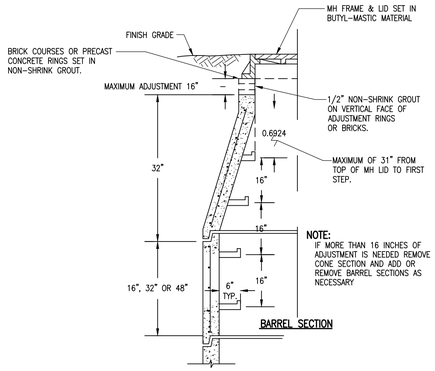
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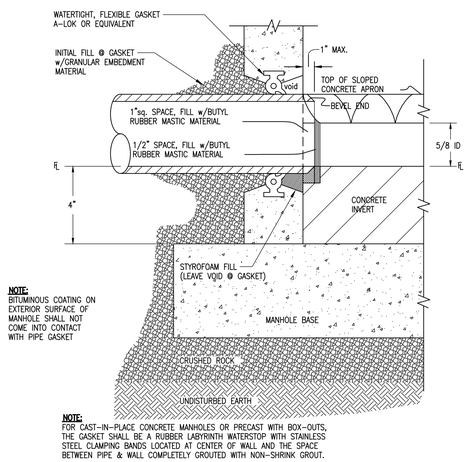
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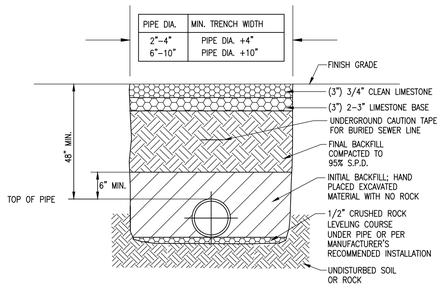
STANDARD MANHOLE



MANHOLE ADJUSTMENT



MANHOLE GASKET

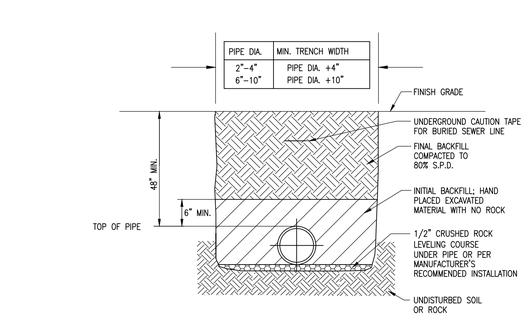


PVC & DUCTILE IRON PIPE EMBEDMENT
LOCATED UNDER AGGREGATE SURFACES

TYPICAL EMBEDMENT DETAIL FOR ALL DUCTILE IRON AND PVC PIPING LOCATED UNDER AGGREGATE SURFACES.

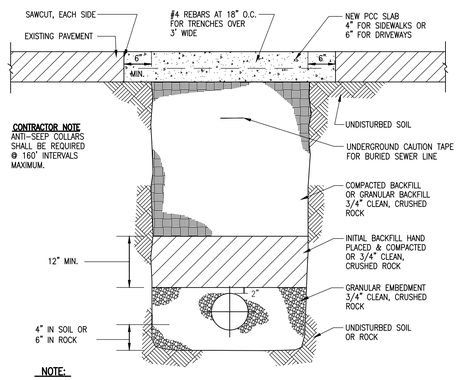
PVC & DUCTILE IRON PIPE
w/o GRANULAR EMBEDMENT

TYPICAL EMBEDMENT DETAIL FOR ALL DUCTILE IRON AND PVC PIPING NOT LOCATED UNDER PAVED OR AGGREGATE SURFACES.

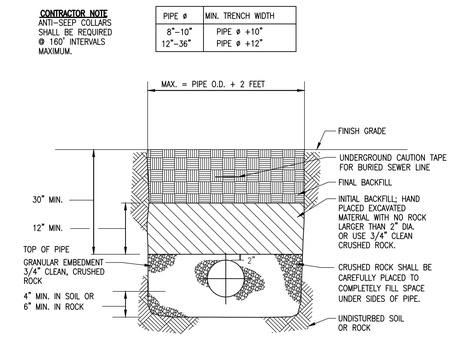


MANHOLE STEP

MANHOLE CASTINGS



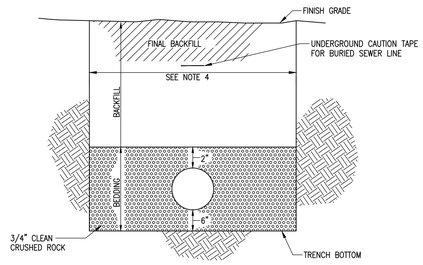
PAVEMENT REPLACEMENT



PVC & DUCTILE IRON PIPE
w/ GRANULAR EMBEDMENT

TYPICAL EMBEDMENT DETAIL FOR ALL DUCTILE IRON AND PVC PIPING NOT LOCATED UNDER PAVED OR AGGREGATE SURFACES.

NOTES:
1. BACKFILL SHALL BE JOB EXCAVATED MATERIAL FREE FROM DEBRIS AND STONES COMPACTED TO 90% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698. FOR BACKFILL UNDER PAVEMENT (EXISTING OR PROPOSED) SEE SD-9 AND SD-11.
2. BEDDING MATERIAL SHALL BE 1/2" TO 3/4" CLEAN CRUSHED ROCK.
3. TRENCH BANKS WILL BE CUT BACK ON SLOPES IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. SLOPES MUST NOT EXTEND BELOW TOP OF BEDDING.
4. MINIMUM AND MAXIMUM WIDTHS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.



TYPICAL SECTION

TYPICAL SECTION

SANITARY SEWERS SPECIFICATIONS

SEWER PIPE

1. Reinforced Concrete Pipe – Reinforced concrete pipe and fittings shall conform to the requirements of ASTM C76. Gaskets shall be neoprene or other synthetic rubber. Natural rubber gaskets will not be acceptable.
2. Ductile Iron Pipe – Ductile iron pipe shall conform to AWWA C151, Class 51 minimum. Joints shall be mechanical or push-on joints and conform to the current specification AWWA C111. Gaskets shall be neoprene or synthetic rubber material. Natural rubber gaskets will not be acceptable.
3. Fittings shall conform to the current AWWA specifications C110 and C153 and shall have a pressure rating of not less than that specified for the pipe.
4. Polyvinyl Chloride Pipe (PVC)
   A. Gravity Sewer: Polyvinyl chloride pipe shall conform to ASTM D-3034, Type PSM. The minimum wall thickness shall conform to SDR 35 (minimum).
   B. Servicelines: Polyvinyl chloride pipe shall be SDR 26 (minimum).
   C. Pressure Forcemain: Polyvinyl chloride pipe shall conform to ASTM D-2241. The minimum wall thickness shall conform to SDR 21 (minimum) for pipe size 2" in diameter or larger. For pipe size smaller than 2" in diameter the pipe shall conform to Schedule 40 (minimum).
5. Flexible gasketed joints shall be compression-type with an integral bell. The integral bell shall have an elastomeric gasket ring conforming to the requirements of ASTM D-3139 (Pressure Pipe), ASTM D-3212 (Drain and Sewer), and ASTM F477. Gaskets shall be neoprene or other material. Natural rubber gaskets will not be acceptable.
6. For sewer pipe with depth of cover exceeding 15 feet, the Engineer shall make earth loading analysis to determine if increased pipe strength is required in accordance with manufacturer specifications.

MANHOLES SPECIFICATIONS

Manholes shall be provided/installed complete with ring and cover, steps, fittings, and other appurtenances, in accordance with the following criteria and standard details, and manufacturers recommendations.

1. Concrete – 4000 PSI MCIB Mix No. A558-1-2
   3000 PSI MCIB Mix No. A535-1/2-4
2. Precast Sections – Circular precast concrete shall meet the requirements of ASTM C478. The exterior of all joints shall be sealed with 6" Hamilton-Kent "Kent Seal" tape or approved equal.
3. Dimensions – As shown, or per manufacturers recommendations.
4. Flexible Joint – Hamilton-Kent "Kent Seal", Bidco Sealants, Inc. "Bidco C56", or approved equal. The minimum bead dimensions shall be one square inch.
5. Coal Tar Point – Koppers "Bitumastic Super Service Black", Tnemec "46-450 Heavy Tnemecol", Porter "Tar Mastic 100", or approved equal.
6. Flexible Gaskets – Flexible gaskets shall be Press-wedge, PSX (Press Seal Gasket Corporation), A-Lok (A-Lok Products, Inc.), or approved equal.
7. Portland Cement – Portland Cement shall conform to ASTM C150, Type II or IV. When high early strength is required, Type IV can be used.
8. Fine Aggregate – Fine aggregate shall meet the requirements of ASTM C33.
9. Coarse Aggregate – Coarse aggregate shall meet the requirements of ASTM C33.
10. Mortar – One part Portland Cement, Type II, three parts sand, one-fourth part Hydrated lime, conforming to ASTM C207.
11. Lifting Eyes – All manholes shall be cast with proper lifting eyes on all precast manhole sections.
12. Reinforcing Steel – ASTM A615, Grade 40 or Grade 60.
13. Precast concrete manholes shall conform to ASTM C478 except as modified by the specifications.
14. Bases not built monolithic with bottom section shall be poured of 4000 PSI concrete. Monolithic bases shall not interfere w/pipe installation.
15. Manhole may be transitioned to 4'0" diameter, 8' above F.L. of outfall for 5'0" and 6'0" manholes.
16. The bottom section of all precast manholes not built monolithic with the base shall be set into a steel-reinforced poured concrete base a minimum of 4". (#4@6"E.W.)
17. Waterproofing will be required on the outside of manholes. The bitumen shall consist of two (2) six (6) mil coats of coal tar paint.
18. The compressive strength of concrete used in the construction of precast reinforced concrete manholes shall be not less than 4000 PSI.
19. Only eccentric manhole cones will be allowed unless otherwise approved by the City Engineer.
20. Plastic manhole steps shall be provided, spaced at 1'-4" O.C., where inlet or manhole depth is greater than 4'-0". Steps shall be M.A. Ind., Inc. model PS-2-PF or approved equal. Steps shall be cast-in-place unless otherwise approved by the Engineer.
21. The fill concrete flow channel for side branches shall be placed to provide a smooth transition into the line flow.
22. Manholes shall not be constructed within limits of stream banks.
23. Flexible gaskets shall be Press-Wedge, PSX (Press Wedge Corp.) A-Lock (A-Lock Products Inc.), or approved equal. Gaskets shall be installed according to product manufacturer. Manhole manufacturer shall be responsible for extra reinf. steel and concrete placement on manholes.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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BRIAN P. HARRINGTON
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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

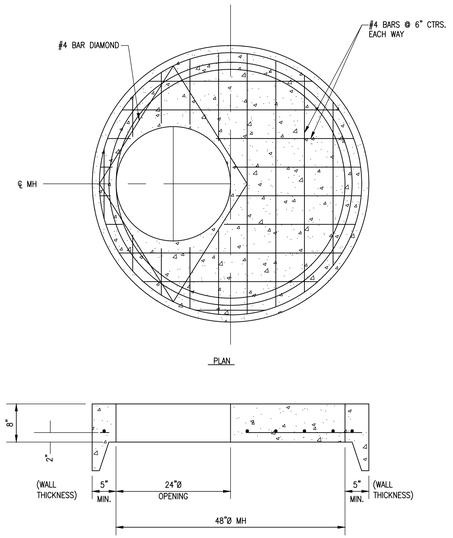
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CHECKED BY: CWS
DESIGNED BY: BPH

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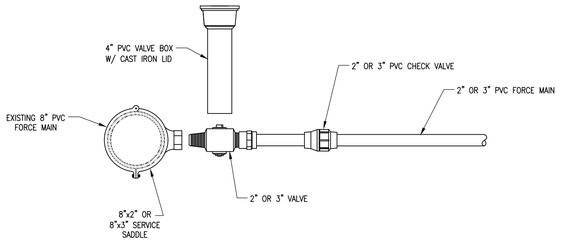
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09/19/2025

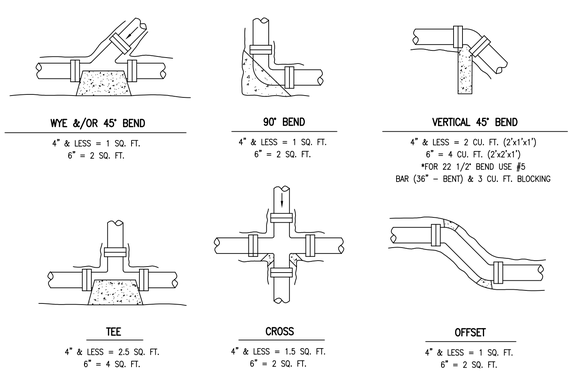
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FLAT TOP MANHOLE SECTION

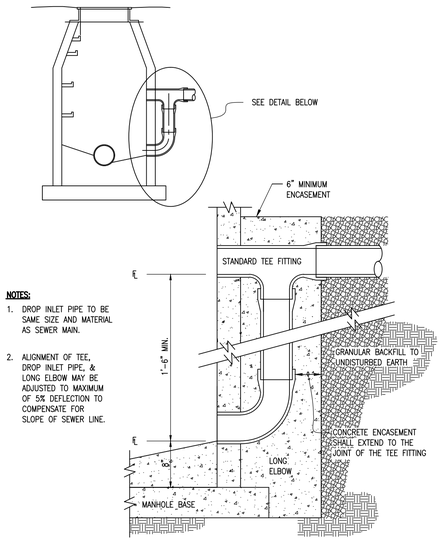


2" OR 3" FORCE MAIN TIE-IN TO EXISTING 8" FORCE MAIN



TYPICAL THRUST BLOCKS

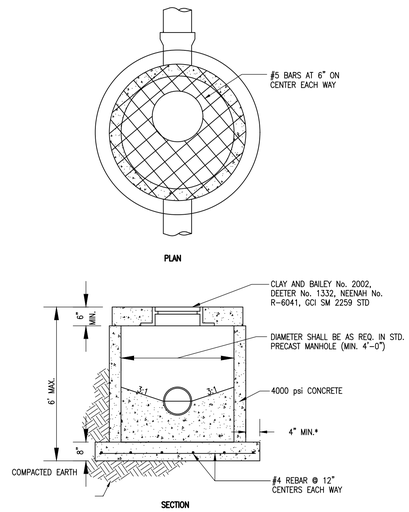
(THRUST BLOCKS SHOWN ARE BASED UPON
SOIL PRESSURE - 3000 POUNDS/SQUARE FOOT.)
FITTINGS TO BE POLYETHYLENE WRAPPED
PRIOR TO PLACEMENT OF CONCRETE. (CONCRETE:
5 BAG MIX, MIN. YIELD = 3000 PSI.)



NOTES:

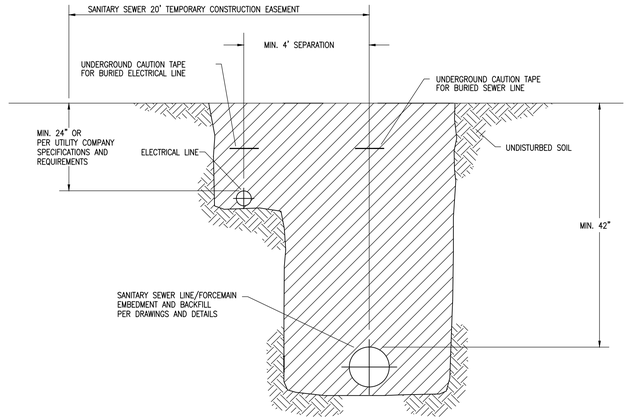
1. DROP INLET PIPE TO BE SAME SIZE AND MATERIAL AS SEWER MAIN.
2. ALIGNMENT OF TEE, DROP INLET PIPE, & LONG ELBOW MAY BE ADJUSTED TO MAXIMUM OF 5% DEFLECTION TO COMPENSATE FOR SLOPE OF SEWER LINE.

OUTSIDE DROP MANHOLE



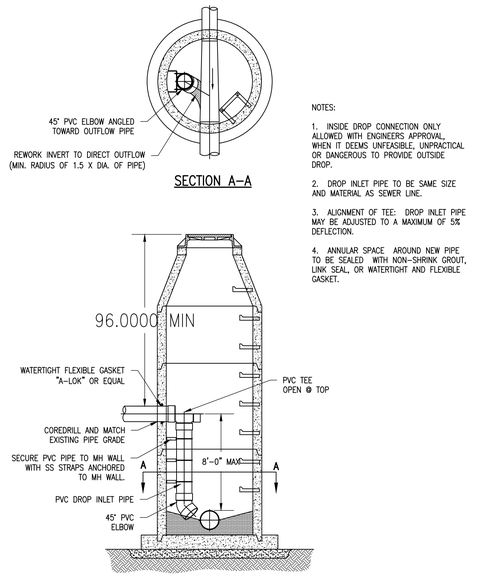
*A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED.

SHALLOW MANHOLE



STANDARD TRENCH DETAIL

ELECTRICAL CONDUIT AND COLLECTION LINE



NOTES:

1. INSIDE DROP CONNECTION ONLY ALLOWED WITH ENGINEERS APPROVAL, WHEN IT DEEMS UNFEASIBLE, UNPRACTICAL OR DANGEROUS TO PROVIDE OUTSIDE DROP.
2. DROP INLET PIPE TO BE SAME SIZE AND MATERIAL AS SEWER LINE.
3. ALIGNMENT OF TEE: DROP INLET PIPE MAY BE ADJUSTED TO A MAXIMUM OF 5% DEFLECTION.
4. ANNULAR SPACE AROUND NEW PIPE TO BE SEALED WITH NON-SHRINK GROUT, LINK SEAL, OR WATERTIGHT AND FLEXIBLE GASKET.

INSIDE DROP MANHOLE

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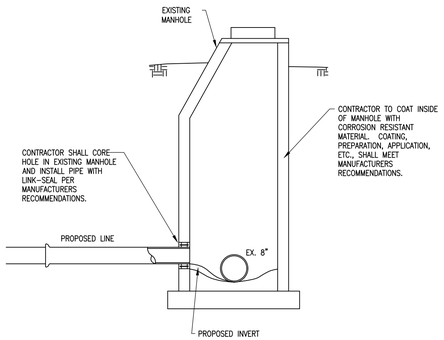
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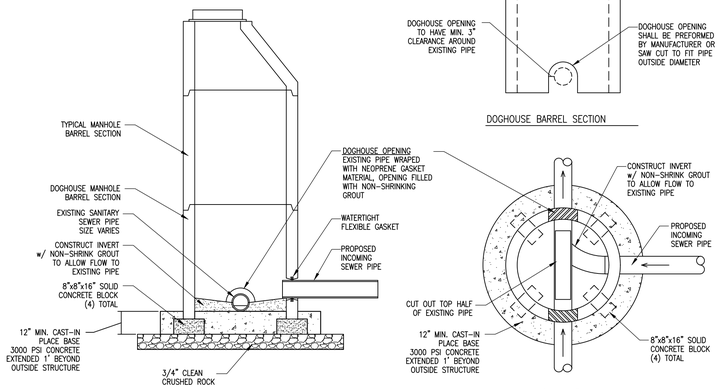
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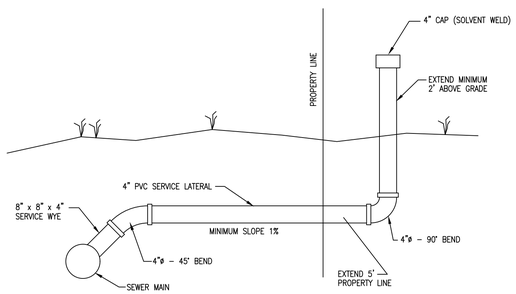
EXISTING MANHOLE TIE-IN

~N.T.S.~

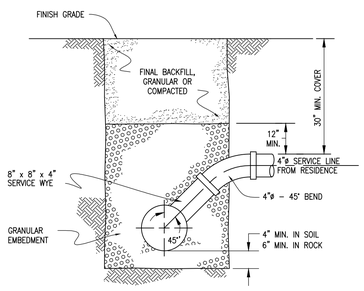


DOGHOUSE MANHOLE

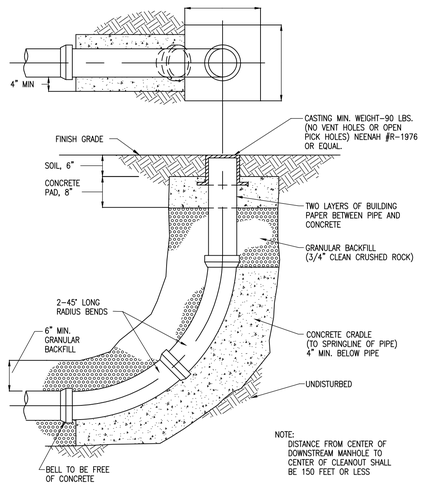
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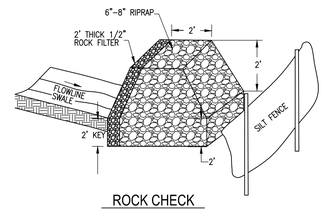
TYPICAL SEVICE LATERAL EXTENSION



STANDARD SERVICE CONNECTION

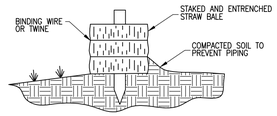


GRAVITY END OF LINE CLEAN OUT/LAMPHOLE



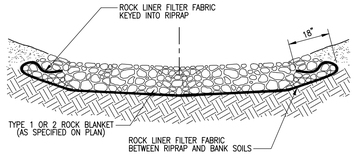
ROCK CHECK

~N.T.S.~



STRAW BALE CHECK

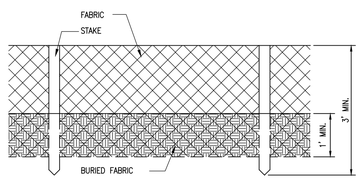
~N.T.S.~



NOTE:
1. ROCK LINER FILTER FABRIC SHALL CONSIST OF A NON-WOVEN, POLYPROPYLENE TYPE FABRIC SUCH AS: AMOCO 4553 NON-WOVEN GEOTEXTILE FABRIC OR APPROVED EQUAL.

RIP RAP W / FILTER FABRIC

~N.T.S.~



SILT FENCE INSTALLATION

~N.T.S.~

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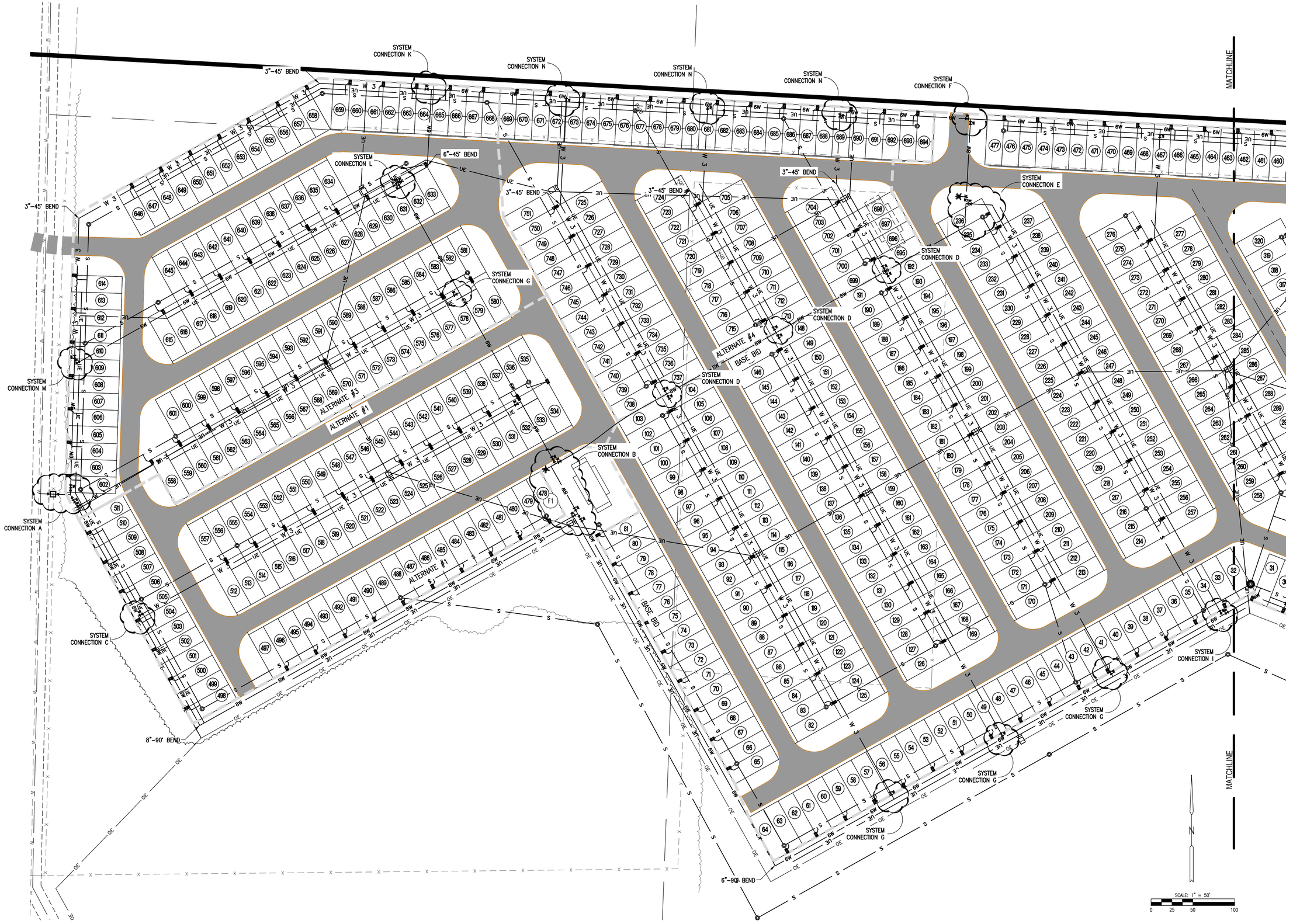
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DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:
SANITARY DETAILS

SHEET NUMBER:
C-215

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
09/19/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:

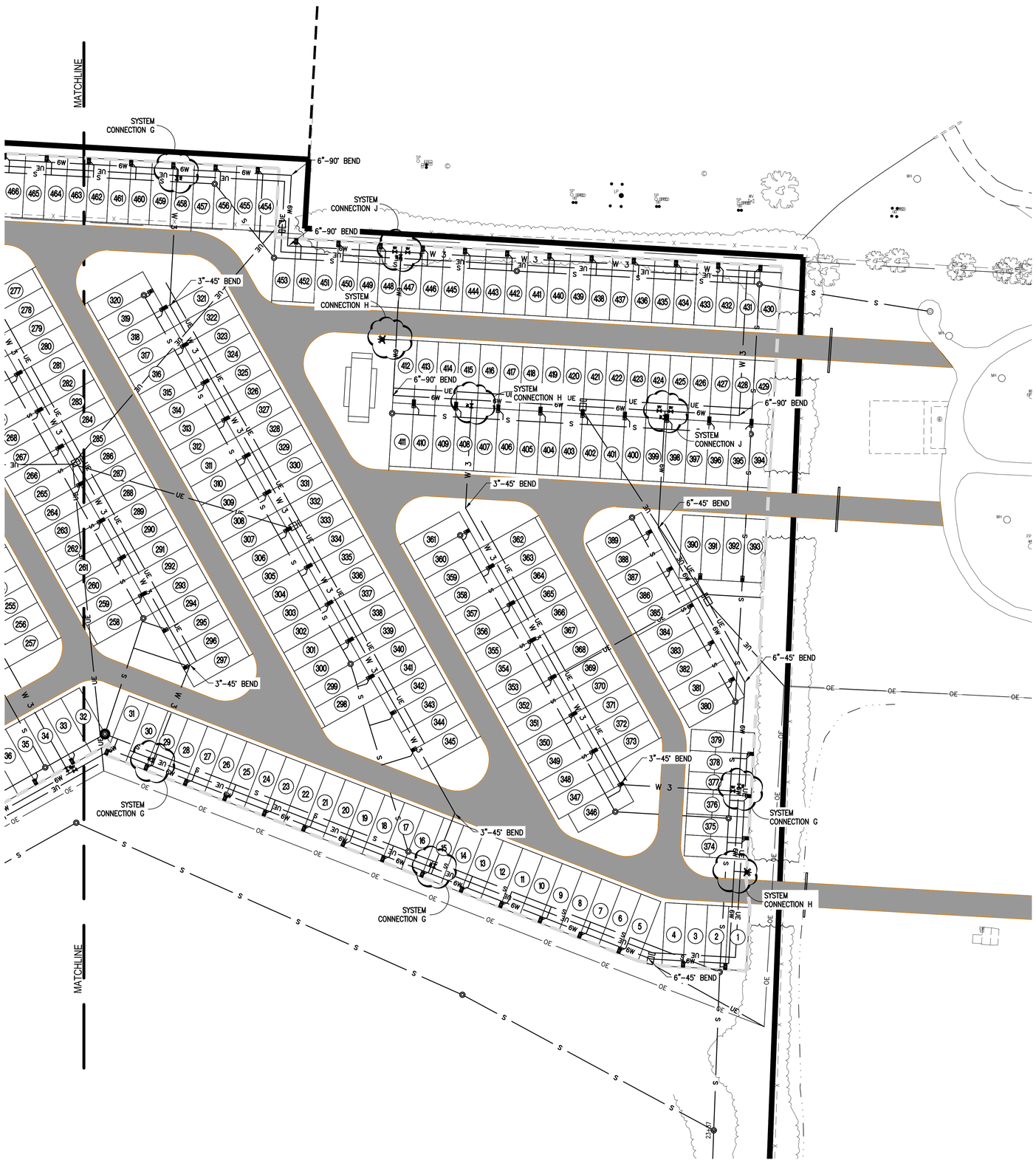
WATERLINE PLAN

SHEET NUMBER:

C-301

28 OF 59
09/19/2025

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DRAWN BY: DEP
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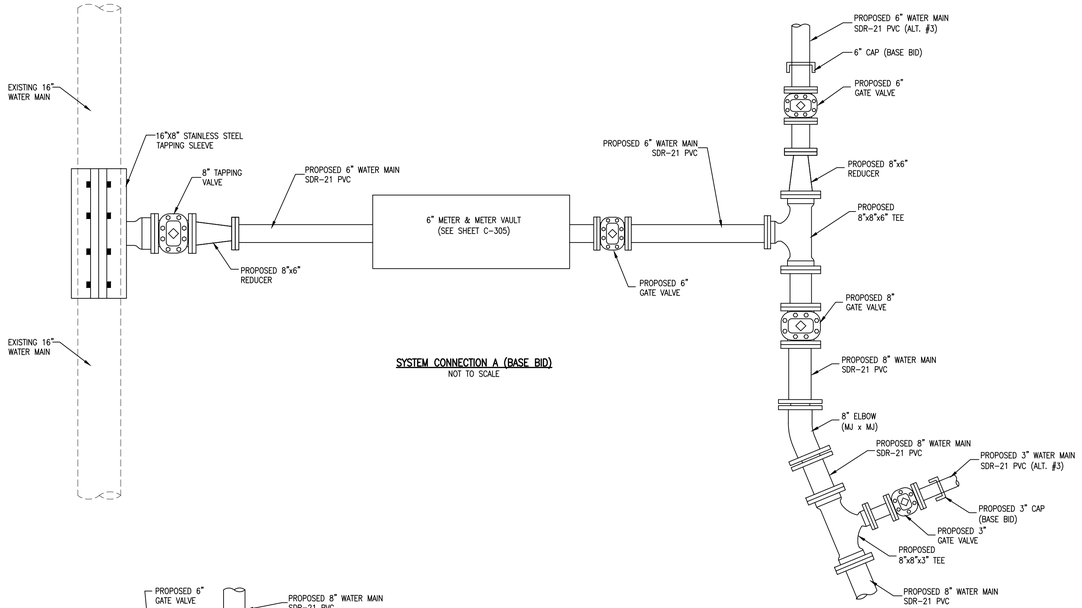
WATERLINE PLAN

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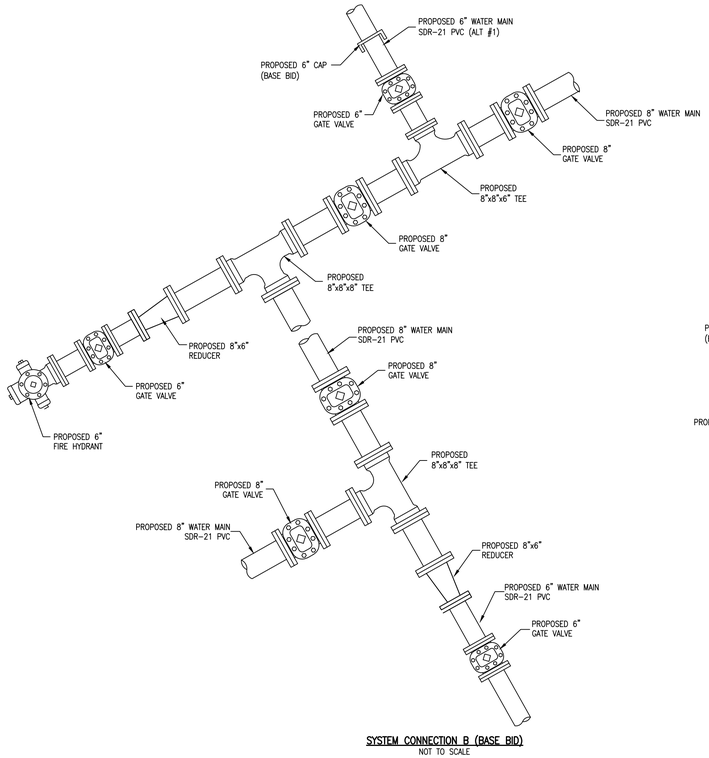
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29 OF 59
09/19/2025

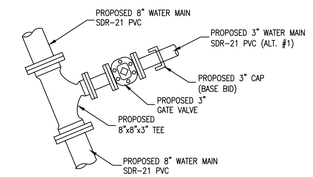
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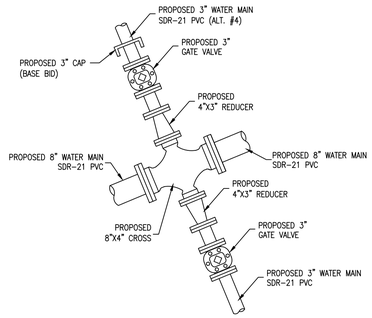
SYSTEM CONNECTION A (BASE BID)
NOT TO SCALE



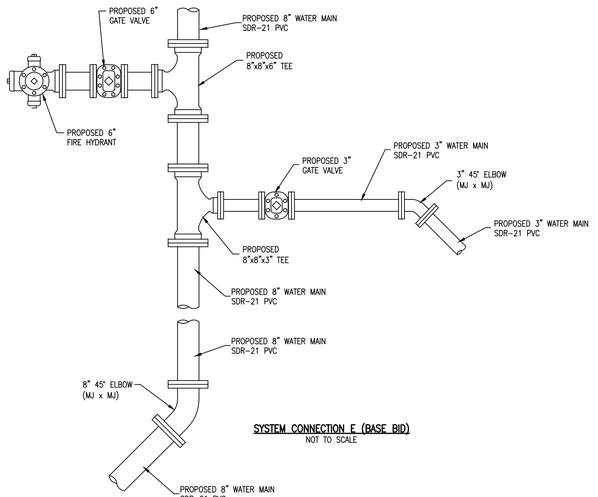
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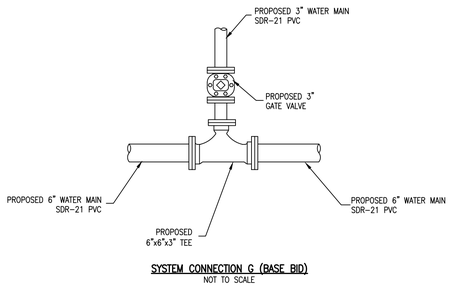
SYSTEM CONNECTION C (BASE BID)
NOT TO SCALE



SYSTEM CONNECTION D (BASE BID)
NOT TO SCALE

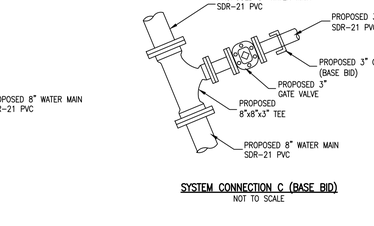


SYSTEM CONNECTION E (BASE BID)
NOT TO SCALE



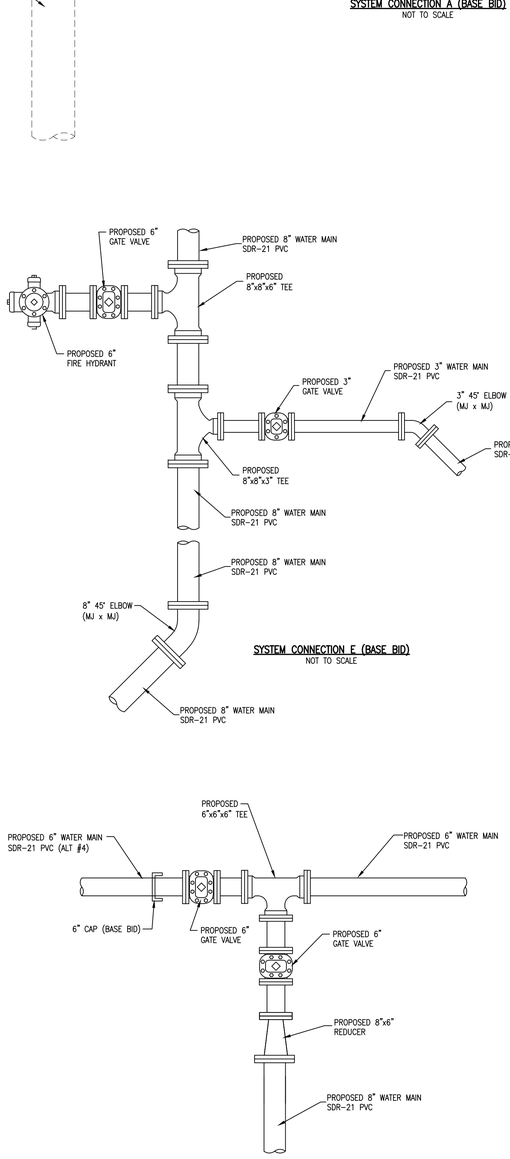
SYSTEM CONNECTION G (BASE BID)
NOT TO SCALE

SYSTEM CONNECTION J (BASE BID)
NOT TO SCALE

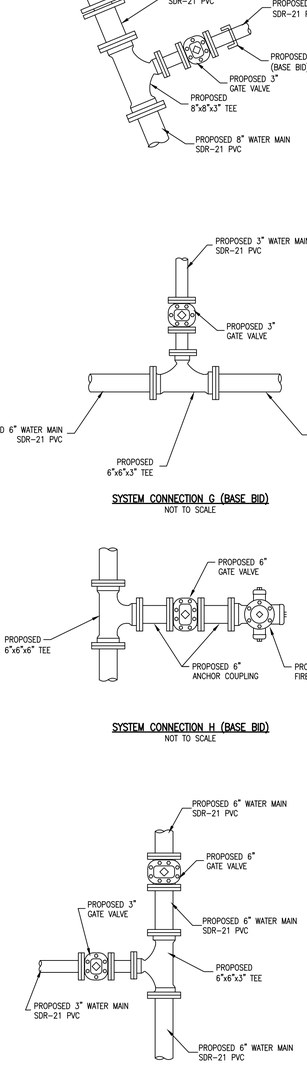


SYSTEM CONNECTION L (ALT #3)
NOT TO SCALE

SYSTEM CONNECTION H (BASE BID)
NOT TO SCALE

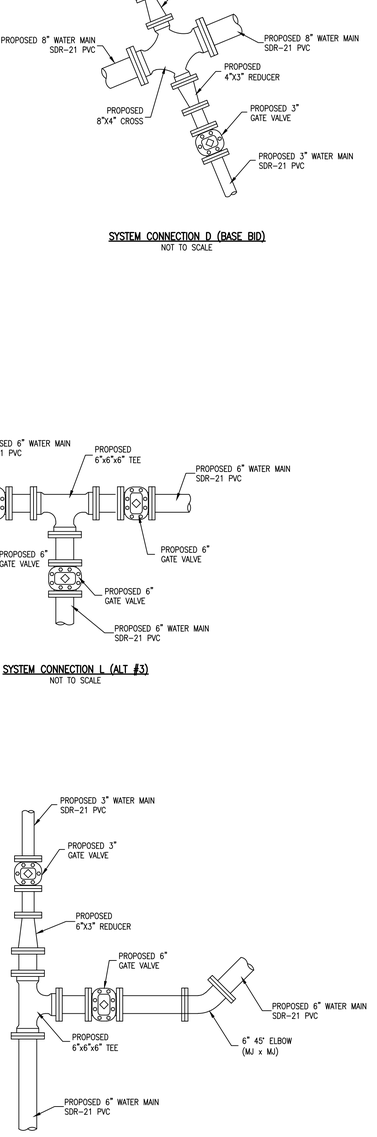


SYSTEM CONNECTION F (BASE BID)
NOT TO SCALE



SYSTEM CONNECTION I (BASE BID)
NOT TO SCALE

SYSTEM CONNECTION K (ALT #3)
NOT TO SCALE



SYSTEM CONNECTION M (ALT #3)
NOT TO SCALE

STATE OF MISSOURI
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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
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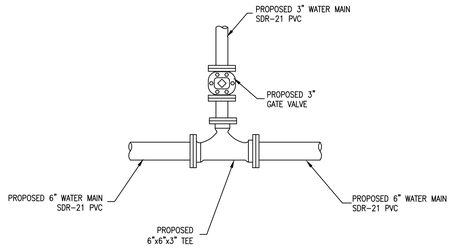
CAD DWG FILE: 23117.02-SHEETSBASE
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SHEET TITLE:
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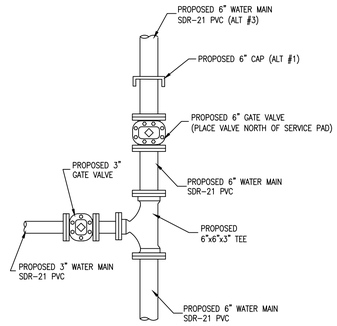
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C-303

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09/19/2025

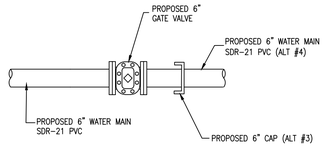
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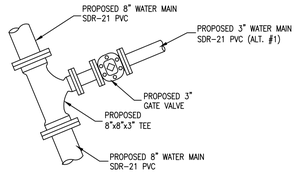
SYSTEM CONNECTION N (ALT #4)
NOT TO SCALE



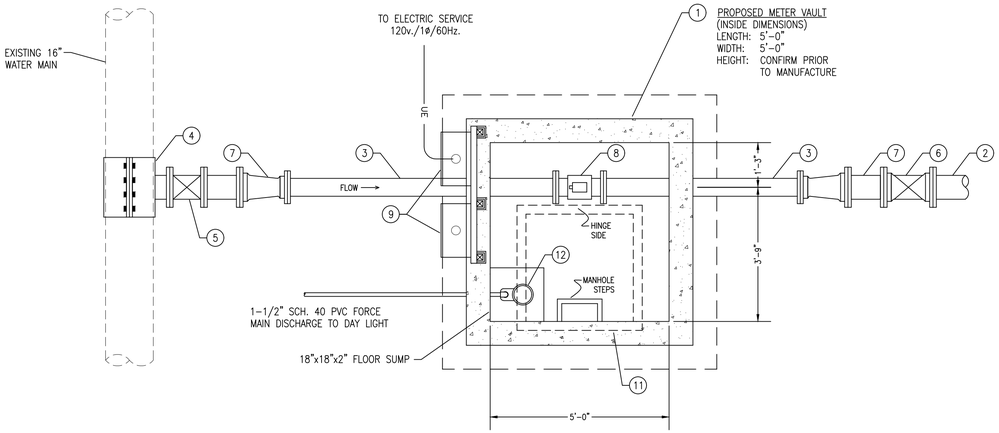
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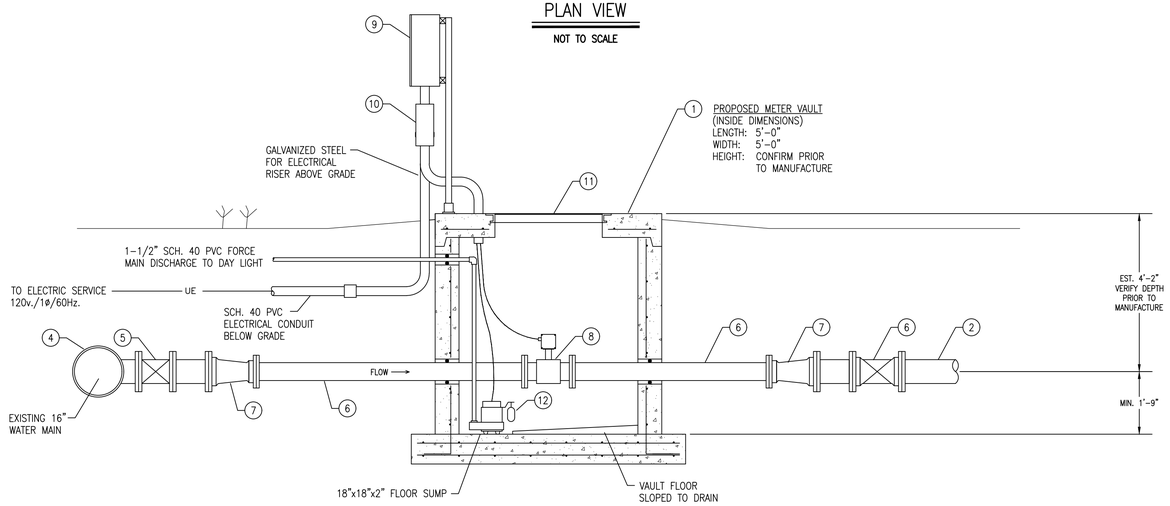
SYSTEM CONNECTION P (ALT #3)
NOT TO SCALE



SYSTEM CONNECTION Q (ALT #3)
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



SIDE ELEVATION VIEW
NOT TO SCALE

6" METER AND METER VAULT

ITEM	DESCRIPTION	SIZE	MATERIAL
1	CONCRETE METER VAULT	SEE DETAIL	PRECAST CONCRETE
2	PVC PIPE PIPE	8"	DUCTILE IRON
3	DUCTILE IRON PIPE	6"	DUCTILE IRON
4	TAPPING SLEEVE	16"x8"	STAINLESS STEEL
5	TAPPING VALVE	8"	DUCTILE IRON
6	GATE VALVE	8"	DUCTILE IRON
7	REDUCER	8"x6"	DUCTILE IRON
8	ELECTROMAGNETIC FLOW METER	8"	DUCTILE IRON
9	ELECTRICAL RACK FOR ELECTRICAL PANELS, REMOTE METER MOUNT, & TELEMETRY PANEL (NEMA 4X REQ'D)	AS REQ'D.	–
10	JUNCTION BOX (NEMA 4X)	AS REQ'D.	–
11	VAULT HATCH (HALLIDAY SERIES S1S)	36"x36"	ALUMINUM
12	SUMP PUMP	–	–

NOTES

1. ALL ELECTRIC WORK SHALL COMPLY WITH NATIONAL ELECTRIC CODE.
2. ALL ELECTRIC PANELS SHALL BE NEMA 4X RATED.
3. ALL PANELS SHALL BE SECURED USING A UNI-STRUT FRAME SECURELY ATTACHED TO CONCRETE USING A MINIMUM OF TWO VERTICALS AND TWO HORIZONTAL STRUTS.
4. ALL ELECTRICAL SERVICE DROPS SHALL BE GALVANIZED ABOVE GROUND. SCH. 40 CONDUIT SHALL BE USED FOR BURIED SERVICE LINE.
5. A 110 VOLT OUTLET SHALL BE PROVIDED AT THE ELECTRICAL RACK.
6. FLOW METER SHALL BE BADGER M-SERIES (2000) OR EQUIVALENT WITH SUBMERGED PROTECTION AND REMOTE READ INCLUDED IN NEW ELECTRICAL PANEL (NEMA 4X) ON EXTERIOR OF DRY VAULT.
7. ALL FASTENERS SHALL BE STAINLESS STEEL.
8. SHOP DRAWINGS AND LOADING CALCULATIONS FOR PRECAST CONCRETE VAULT SHALL BE PROVIDED TO THE ENGINEER AND MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI. ROUND STRUCTURES SHALL CONFORM TO ASTM C478 AND ASTM C497 AND RECTANGULAR/SQUARE STRUCTURES SHALL CONFORM TO ASTM C913 AND ASTM C890. PORTLAND CEMENT CONCRETE SHALL CONFORM TO REQUIREMENTS OF THE CURRENT MODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (MSSHC), SECTION 501, FOR CLASS B-1 AIR-ENTRAINED CONCRETE AND ALL OTHER SECTIONS AS REFERENCED IN THE MODOT MSSHC UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. JOINTS SHALL BE SEALED WITH AN EXTERNAL RUBBER SLEEVE, GATOR WRAP OR EQUIVALENT.
9. ALL PIPE PENETRATIONS AND CONDUIT SHALL BE SEALED WITH GASKETS, NON-SHRINK GROUT, ELECTRICAL DUCT SEAL PUTTY, OR AS REQUIRED TO PREVENT WATER INFILTRATION.
10. SUMP PUMP SHALL BE ZOELLER MODEL 53, 0.3 HP, 115 VOLT, SINGLE PHASE, OR EQUIVALENT.

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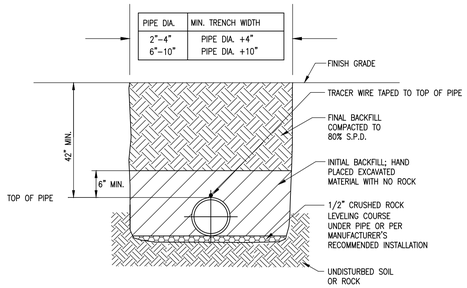
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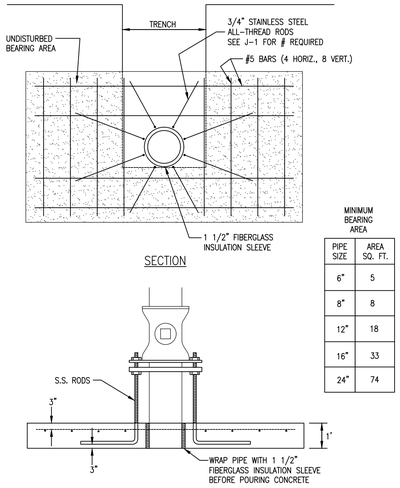
SHEET NUMBER:
C-304

31 OF 59
09/19/2025

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TYPICAL PIPE INSTALLATION

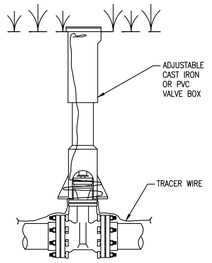


PIPE SIZE	MINIMUM BEARING AREA SQ. FT.
6"	5
8"	8
12"	18
16"	33
24"	74

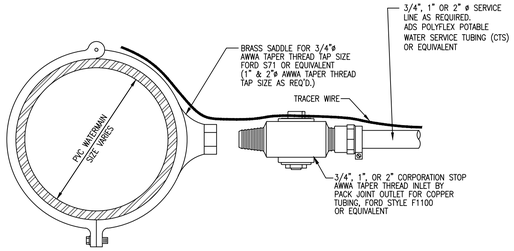
THRUST COLLAR



TYPICAL CAP

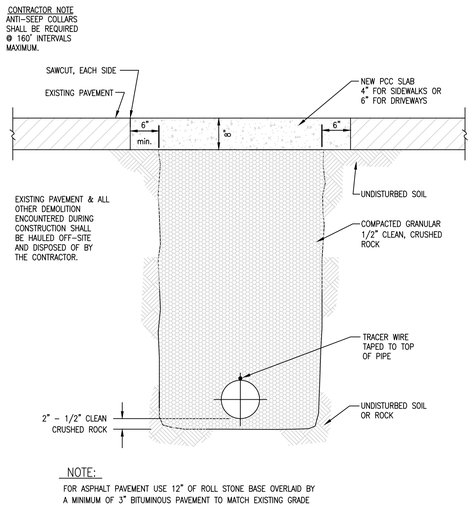


TYPICAL VALVE INSTALLATION

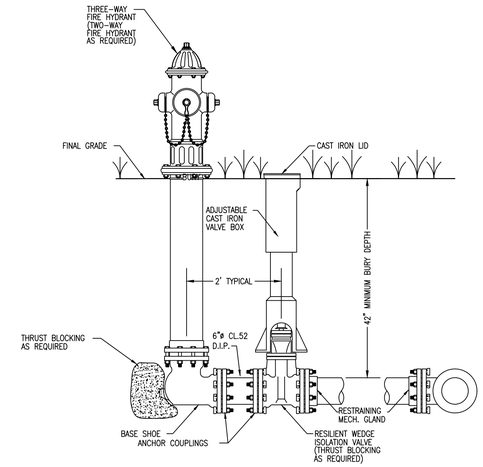


SERVICE CONNECTION DETAIL

SERVICE CONNECTION ASSEMBLY AS SHOWN REQ'D. AT EACH SERVICE CONNECTION LOCATION AS SHOWN ON THE PLANS.



PAVEMENT REPLACEMENT

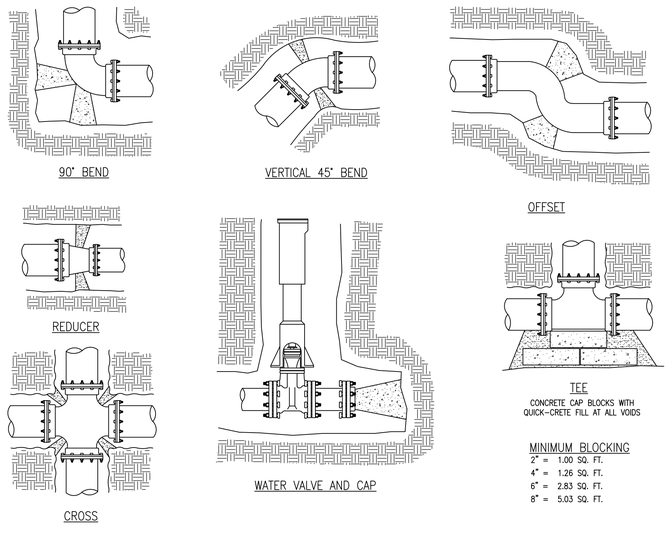


TYPICAL FIRE HYDRANT SETTING

CONTRACTOR SHALL INCLUDE PIPE SPOOL, VALVE, VALVE BOX AND ALL NECESSARY APPURTENANCES IN THE BID PRICE FOR THE FIRE HYDRANT SETTING.

TYPICAL FIRE HYDRANT DETAIL

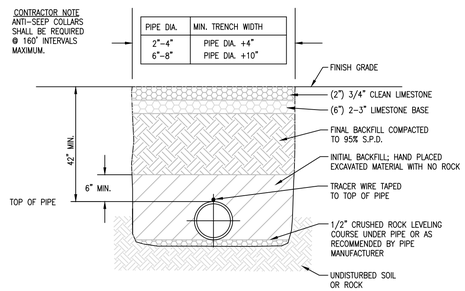
FIRE HYDRANTS SHALL BE THREE-WAY HYDRANTS UNLESS SPECIFIED ON PLANS OR BY ENGINEER. FIRE HYDRANT SHALL BE MUELLER, CLOW, OR AMERICAN.



MINIMUM BLOCKING
2" = 1.00 SQ. FT.
4" = 1.26 SQ. FT.
6" = 2.83 SQ. FT.
8" = 5.03 SQ. FT.

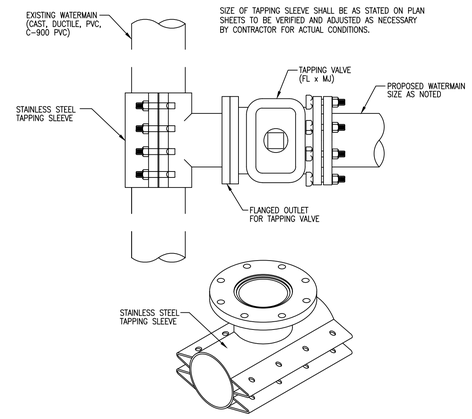
TYPICAL THRUST BLOCKS

THRUST BLOCKS SHOWN ARE BASED UPON SOIL PRESSURE–3000 POUNDS/SQUARE FOOT. ACTUAL FIELD CONDITIONS MAY VARY. MINIMUM DIAMETER AND THICKNESS SHALL BE ONE FOOT UNLESS OTHERWISE APPROVED BY ENGINEER. ALL DUCTILE IRON FITTINGS, VALVES, ETC., SHALL BE PLASTIC WRAPPED TO KEEP CONCRETE FROM COMING INTO CONTACT WITH FITTING.



PIPE LOCATED UNDER AGGREGATE SURFACES

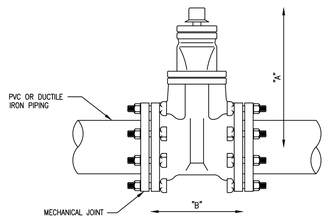
TYPICAL EMBEDMENT DETAIL FOR ALL DUCTILE IRON AND PVC PIPING LOCATED UNDER AGGREGATE SURFACES.



TAPPING SLEEVE & VALVE

TAPPING SLEEVE ASSEMBLY AS SHOWN REQ'D. FOR ALL WET CONNECTIONS.

DIMENSION	NOMINAL SIZE								
	2"	3"	4"	6"	8"	10"	12"	14"	16"
A	9.88"	12.38"	14.19"	18.00"	21.50"	25.50"	28.62"	32.04"	39.39"
B	8.50"	9.00"	10.00"	11.50"	12.50"	14.75"	14.88"	15.00"	19.75"



TYPICAL GATE VALVE

GATE VALVES SHALL BE RESILIENT WEDGE VALVES w/MECHANICAL JOINT ENDS, OR ENGINEER APPROVED EQUIVALENT.

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MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
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ISSUE DATE: 09/19/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

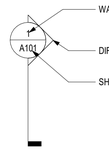
SHEET TITLE:
WATERLINE DETAILS

SHEET NUMBER:
C-305

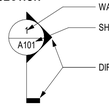
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TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

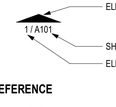
WALL SECTION



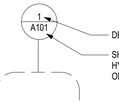
BUILDING SECTION



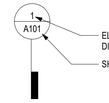
EXTERIOR ELEVATION



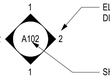
DETAIL REFERENCE



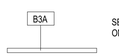
SECTION DETAIL REFERENCE



INTERIOR ELEVATION REFERENCE



PARTITION TYPE IDENTIFICATION MARK



EQUIPMENT/ACCESSORY IDENTIFICATION MARK



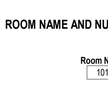
DOOR IDENTIFICATION MARK



WINDOW AND LOUVER TYPE MARK



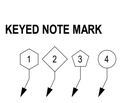
LEVEL LINE



ROOM NAME AND NUMBER



REVISION EXTENT



KEYED NOTE MARK



MATCH LINE REFERENCE



DRAWING TITLE SYMBOLS



LAYOUT GRID LINES

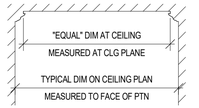
NORTH ARROW REFERENCE

ARCHITECTURAL DIMENSIONING CONVENTIONS

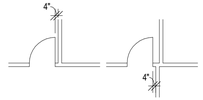
1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.
3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:
   A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO:
      - STRUCTURAL OR DIMENSIONAL GRID LINES.
      - CENTERLINE OF CONCRETE OR CONC MASONRY UNIT WALLS (EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS). REFER TO THE ARCH PLANS AND SECTIONS, THE STRUCT DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONC MASONRY UNIT WALLS.
      - CENTERLINE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
      - CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
      - CENTERLINE OF EQUIPMENT OR FURNISHING.
      - CENTERLINE OF OTHER FEATURES AS INDICATED.
   B. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.
   C. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO:
      - FACE OF CONCRETE OR CONC MASONRY UNIT WALL (EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
      - FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE. UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE "E" BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
      - INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE DOOR SCHEDULE FOR ADDITIONAL DIMENSIONAL INFORMATION.
      - DIMENSION OR WORK POINT AS INDICATED ON RELATED ARCH DETAIL PLAN, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL, OR CONSTRUCTION DETAIL.
   D. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION.
   E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:
      - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN, WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
      - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
   F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
      - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.

NOTE NO 3 CONTINUED:

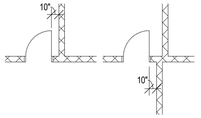
- CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING.



4. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, **IN ORDER**, TO DETERMINE THE LOCATION OF DOOR OPENINGS:
   A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
   B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:
      - AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.

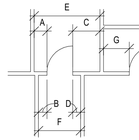


      - AT DOORS OCCURRING IN WALLS OF CONC MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.

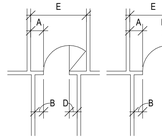


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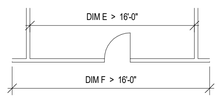
   C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IN DIAGRAM BELOW IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:
      - DIMENSION A = 18 INCHES MIN
      - DIMENSION B = 12 INCHES MIN
      - DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM
      - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYP BD PARTITIONS OR - EVEN MULTIPLE OF 1/2 CMU MODULE PLUS 2 INCHES AT CONC MASONRY UNIT WALLS
      - DIMENSIONS E AND F = AS SHOWN ON PLANS
      - DIMENSION G = 36 INCHES MIN
      - DIMENSION H = 60 INCHES MIN



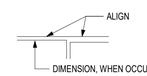
      - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".
   D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE NO 4C ABOVE FOR "DIM A", "DIM B," AND "DIM D" ARE MET - MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE.



   E. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL ("DIM E" AND "DIM F" IN DIAGRAM BELOW BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN ON THE PLANS. WHERE DOOR OCCURS IN CMU WALL, PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "CUT" OR PARTIAL CMU MODULES ADJACENT TO THE JAMBS.



5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.

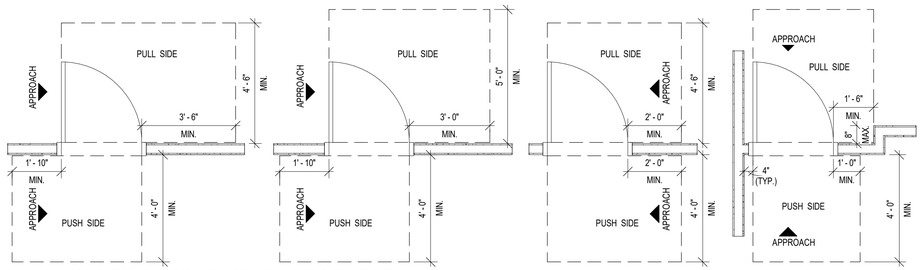


ARCHITECTURAL ABBREVIATIONS

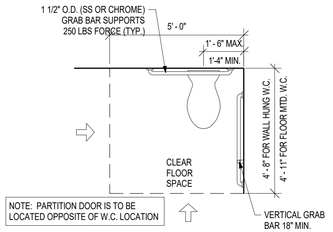
&	AND
<	ANGLE
AB	ANCHOR BOLT
ACOUS/ACST	ACOUSTICAL)
ACT	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ACS PNL	ACCESS PANEL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AGGR	AGGREGATE
ALUM, AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASPH	AT
AVG	AVERAGE
BB	BULLETIN BOARD
BD	BOARD
BTWN	BETWEEN
BITUM	BITUMINOUS
BLK / BLKG	BLOCK / BLOCKING
BLDG	BUILDING
BM	BENCHMARK
BMD	BOTTOM OF METAL DECK
BO	BOTTOM OF / BY OTHERS
BOT	BOTTOM
BOS	BOTTOM OF STEEL
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOFING SYSTEM
C	CHANNEL
CAB	CABINET
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN
CCR	CARD CONTROL READER
CSWK	CASEWORK
CCT	CUBICLE CURTAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CSP	COMBINATION STAND PIPE
CG	CORNER GUARD
CEM	CEMENT, CEMENTITIOUS
CER	CERAMIC
CT	CERAMIC TILE
CH BD	CHALKBOARD
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
CRSC	COLD ROLLED STEEL CHANNEL
CW	COLD WATER
COL	COLUMN
CNTR	COUNTER
CSK	COUNTERSUNK
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CG	CORNER GUARD
CORR	CORRUGATED, CORRIDOR
CU	CUBIC
D	DEPTH
DBL	DOUBLE
DBL ACT	DOUBLE ACTING
DEG	DEGREE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIM PT	DIMENSION POINT
DISP	DISPENSER
DIST	DISTANCE
DK	DECK
DN	DOWN
DR	DRAIN, DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAPERY TRACK
DTL	DETAIL
DW	DISHWASHER
DWG / DWGS	DRAWING / DRAWINGS
E	EAST
EA	EACH
EDR	EQUIPMENT DRAWING
EG	EDGE GUARD
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPB	ELECTRICAL PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATED
EXH	EXHAUST
EXIST. (E)	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
EX-BR	EXISTING BRICK
F/F	FACE TO FACE
FA	FIRE ALARM
FAS	FIRE ALARM STATION
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FF	FINISH FACE
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FHFEC	FIRE HOSE / EXTINGUISHER CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FHY	FIRE HYDRANT
FIN	FINISH, FINISHED
FLAM	FLAMMABLE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FACE OF
FRT	FIRE RETARDANT TREATMENT
FRZ	FREEZER
FSB	FOLDING SHOWER BENCH
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FXTR	FIXTURE
G	GAS
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GR	GRADE OR GRADING
GVL	GRAVEL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDW, HDWR	HARDWARE
HDWD	HARDWOOD
HGT, HT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
IVT	INTRAVENOUS TRACK
JAN	JANITOR
JST	JOIST
JT	JOINT
KG	KILOGRAM
KIT	KITCHEN
KPL	KICK PLATE
KS	KNEE SPACE
L	LENGHT, LONG
LAB	LABORATORY
LAM	LAMINATE, LAMINATION
LAV	LAVATORY
LB	POUND
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LG	LENGTH
LIN	LINEAR
LL	LEAD LINED
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LTG	LIGHTING
LVR	LOUVER
M	METERS
MACH	MACHINE
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MET, MTL	METAL
MEMB	MEMBRANE
MFR / MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MM	MILLIMETERS
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MTD	MOUNTED
MTG	MOUNTING
MVBL	MOVABLE
MULL	MULLION
(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOICE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OFCI	OWNER-FURNISHED-CONTRACTOR INSALLED
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OVHD	OVERHEAD
OZ	OUNCE
PA	PUBLIC ADDRESS
PART	PARTIAL
PBD	PARTICLEBOARD
PBX	PRIVATE TELEPHONE EXCHANGE
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLBG	PLUMBING
PLF	POUNDERS PER LINEAR FOOT
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNL BD	PANEL BOARD
PNT, P	PAINT
PORT	PORTABLE
PP	PUSH PLATE
PPM	PARTS PER MILLION
PR	PAIR
PRCST	PRECAST
PREP	PREPARATION
PREFAB	PREFABRICATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT / PTD	PAINT, PAINT / PAINTED
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RD	ROOF DRAIN
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING) (MENT)
REQD	REQUIRED
REQT	REQUIREMENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RESILIENT FLOORING
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER
S	SOUTH
SA	SUPPLY AIR
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEG	SEGMENT
SEP	SEPARATION OR SEPARATE
SEP JT	SEPARATION JOINT
SHT	SHEET, SHEETING
SHWR	SHOWER
SHV	SHELVES, SHELVING
SIM	SIMILAR
SK	SINK
SMS	SHEET METAL SCEW
SP	SPACE, SPACED, SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STS	SELF-TAPPING STEEL
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVCE	SERVICE
SW	SOUTHWEST
SYMM	SYMMETRICAL
SYST	SYSTEM
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP OF CONCRETE, TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF
TOR	TOP OF RAILING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TPH	TOILET PAPER HOLDER
TRANS	TRANSPARENT
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
TW	TOP OF WALL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
VAC	VACUUM
VB	VALVE BOX
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIT	VIREOUS
VP	VENT PIPE
VOL	VOLUME
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WAINS	WAINSCOT
WC	WATER CLOSET, WALL COVERING
WD	WOOD
WDW	WINDOW
WGL	WIRE GLASS
WCHR	WHEELCHAIR
WM	WIRE MESH
WO	WHERE OCCURS
WP	WATERPROOF
WPT	WORKING POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WSP	WET STANDPIPE
WT	WEIGHT
WTHPRF	WEATHERPROOF
WTRPRF	WATERPROOF
WWF	WELDED WIRE FRABRIC
WWM	WELDED WIRE MESH
XFMR	TRANSFORMER
YD	YARD

GENERAL INFORMATION NOTES:

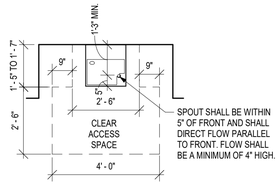
1. ALL CONTRACTORS AND THEIR SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL AND SUPPLEMENTARY CONDITIONS TO THE CONTRACT.
2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND ORDINANCES.
3. CONTRACTOR AND/OR OWNER SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS.
4. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK.
5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS.
6. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
7. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. COMMENCING WITH INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
8. DO NOT SCALE DRAWINGS: FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT FOR CLARIFICATIONS, IF REQUIRED.
9. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE h OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
10. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS. REFER TO WALL TYPES SHEET FOR THICKENSSES.
11. ALL MASONRY WALL THICKNESSES ACTUAL DIMENSIONS REFER TO WALL TYPES SHEET.
12. "TYPICAL", AS USED IN THESE DOCUMENTS, SHALL MEAN THAT THE CONDITION OR DIMENSION IS REPRESENTATIVE OF, OR THE SAME, FOR SIMILAR CONDITIONS THROUGHOUT.
13. IF THERE IS A DISCREPANCY BETWEEN SMALL SCALE AND LARGE SCALE DRAWINGS, (PLAN, SECTION, & DETAIL DRAWINGS, ETC.) - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
14. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
15. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK.
16. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. IN THESE INSTANCES: NO CHANGE ORDERS OR EXTENSIONS OF TIME WILL BE ALLOWED OR ACCEPTED FOR PROCEEDING WITH THE WORK WITHOUT THE ARCHITECT'S WRITTEN DIRECTION AND APPROVAL. ALSO - CONTRACTOR MUST REPAIR AND/OR REPLACE ANY UNAUTHORIZED WORK, AS INDICATED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
17. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NONMETAL ISOLATION MATERIAL.
18. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, ETC. – SHALL BE SEALED, CAULKED, FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS & TO ELIMINATE AIR LEAKAGE AND WATER ENTRY.
19. PROVIDE SEALANT AND/OR CAULKING BETWEEN DISSIMILAR ADJOINING INTERIOR MATERIALS. (I.E. WINDOW SILLS TO GYP. BD., ACT CEILINGS TO MASONRY WALLS, ETC.)
20. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO FINISH JAMB, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE OF THE DOOR TO THE INTERSECTING WALL.
21. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITI



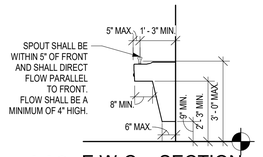
5 TYP. DOOR APPROACH CLEARANCES
3/8" = 1'-0"



H4 ACCESSIBLE CLEAR FLOOR SPACE
3/8" = 1'-0"



H7 E.W.C. - CLEAR SPACE
3/8" = 1'-0"



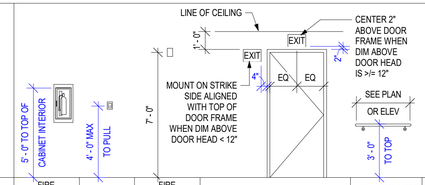
H9 E.W.C. - SECTION
3/8" = 1'-0"

GENERAL NOTES: ACCESSIBILITY GUIDELINES

1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
3. DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX., ADA HARDWARE = 34" MIN. TO 48" MAX.
4. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STANDARD = 40" TYP., 42" MAX. ADA =36" MAX. (27" MIN. CLEAR KNEE SPACE)
5. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
6. WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX.
7. URINALS (TO RIM): STANDARD = 24" MAX. ADA =17" MAX. ADA FLUSH CONTROLS = 44" MAX.
8. LAVATORIES (TO SINK RIM/ COUNTERTOP): STANDARD = 36" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE).
9. MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
10. GRAB BARS - ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 36" MAX. SHOWERS = 33" MIN. TO 36" MAX. (FROM B.O.SHOWER). BATHTUBS: TOP BAR = 33" MIN. TO 36" MAX. BOT. BAR = 9" ABOVE T.O. TUB
11. SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN. ADA = FIXED SHOWER HEAD = 48" AFF.
12. SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP). ADA = 38" MIN. TO 48" MAX.
13. SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
14. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT. & 70" TO TOP. URINALS = 18" TO BOT. & 60" TO TOP
15. TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24". ADA = 19" MIN. TO 24" MAX.
16. WALL MOUNTED SOAP DISPENSERS (TO C. L. OF PUSH BUTTON): STANDARD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK IN COUNTER.
17. PAPER TOWEL DISPENSER/ WASTE RECEPTACLE (TO TOWEL SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
18. WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
19. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 46" MAX. & 15" MIN.
20. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STANDARD = 28" MAX. ADA = 19" MIN. TO 24" MAX. (TO OPNG.)
21. TOILET SEAT COVER DISPENSERS (TO OPNG.): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
22. SHELVES: ADA = 48" MAX.
23. COAT HOOKS: STANDARD = 68". ADA = 48" MAX.
24. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
25. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX.
26. CONVENIENCE RECEPTACLES – ELECTRICAL/ TELEPHONE/ DATA (TO C.L.): STANDARD = 18". ADA = 15" MIN.
27. EXIT LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING. 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME
28. FIRE EXTINGUISHERS (TO TOP. U.N.O.): GROSS WT. 40 LBS. OR LESS = 60" MAX. GROSS WT. MORE THAN 40 LBS. = 42" MAX. ADA = 40" MAX. (B.O. CABINET)
29. FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
30. SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT
31. HORN/ SPEAKER/ VISUAL SIGNALS: STANDARD = 80" AFF. OR 6" BELOW CEILING - WHICHEVER IS LOWER.
32. ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OF LATCH SIDE OF DOOR

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

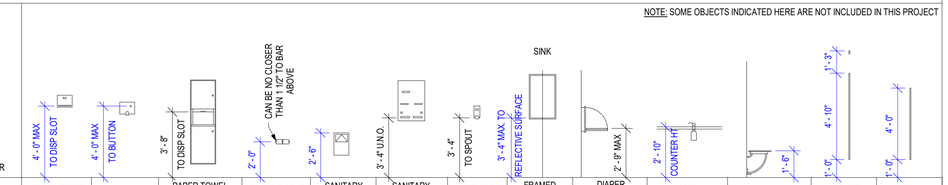
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	FIRE EXTINGUISHER CABINET	MANUAL FIRE PULL	FIRE STROBE/LIGHT/ AUDIBLE ALARM	WALL MOUNTED EXIT SIGN	WALL MOUNTED HANDRAIL	FABRIC COVERED TACK BOARD	MARKER BOARD	MOP & BROOM HOLDER	ROBE HOOK	SOAP DISPENSER	PAPER TOWEL DISPENSER	ALCOHOL DISPENSER
COMMENTS	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS

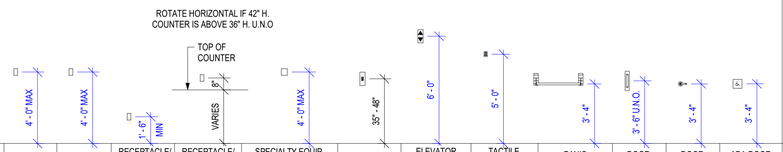
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	PAPER TOWEL DISPENSER	POWER HAND DRYER	PAPER TOWEL DISPENSER & TRASH RECEPTACLE	TOILET TISSUE DISPENSER	SANITARY NAPKIN DISPOSAL	SANITARY NAPKIN DISPENSER	VANITY SOAP DISPENSER	FRAMED VANITY MIRROR	DIAPER CHANGING STATION	SOAP DISPENSER	FOLDING SHOWER SEAT	TOILET PARTITION	URINAL SCREEN
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED & SURFACE	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	COUNTERTOP MOUNTED	SURFACE MOUNTED	WALL MOUNTED	WALL MOUNTED

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE					WALL SWITCH	TELEPHONE OUTLET	RECEPTACLE/ TELEPHONE/ DATA	RECEPTACLE/ TELEPHONE/ DATA	SPECIALTY EQUIP (IE. THERMOSTAT,CARD READER,INTERCOM)	ELEVATOR CALL BUTTON	ELEVATOR VISIBLE SIGNAL INDICATOR	TACTILE CHARACTER INDICATOR	PANIC BAR	DOOR PULL	DOOR LATCH	ADA DOOR OPERATOR
COMMENTS					SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	VARIES

PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

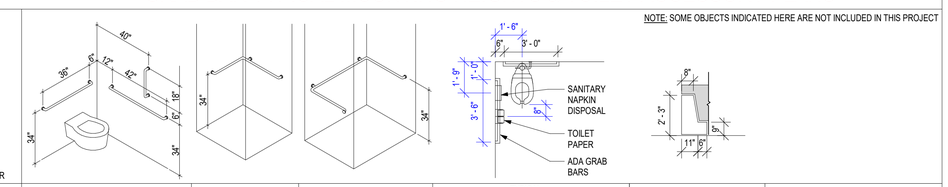
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	SHOWER MIXING VALVE	SHOWER HEAD	HAND HELD SHOWER	LAVATORY		CHILDREN'S DRINKING FOUNTAIN	SINGLE DRINKING FOUNTAIN	DOUBLE DRINKING FOUNTAIN	TOILET	
COMMENTS	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED		WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL/FLOOR MOUNTED	

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET	TYPICAL ADA SINK ENCLOSURE PANEL CLEARANCE	
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY		

A1 TYP. MOUNTING HEIGHTS
1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI SAM COLLINS NUMBER A-2017002629 ARCHITECT
8.19.2025

PROFESSIONAL SEAL

COLLINS | WEBB ARCHITECTURE
307B SW MARKET STREET,
LEE'S SUMMIT, MO 64063
PH: (816)249-2270
collinsandwebb.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 09/19/2025
09/05/2025

CAD DWG FILE: 23072_R24_MOSTATEFAIRGROUND
DRAWN BY: SG
CHECKED BY: SO
DESIGNED BY: RW

SHEET TITLE:
ACCESSIBILITY GUIDELINES

SHEET NUMBER:
G-002

GENERAL DESCRIPTION

PROJECT NAME: MO STATE FAIRGROUNDS - COMFORT STATIONS
PROJECT LOCATION: 2503 W 16TH STREET, SEDALIA, PETTIS COUNTY, MO

COLLINS WEBB ARCHITECTURE
307B SW MARKET STREET
LEES SUMMIT, MISSOURI 64063

APPLICABLE CODES:
INTERNATIONAL BUILDING CODE - 2015 ED.
INTERNATIONAL MECHANICAL CODE - 2015 ED.
NATIONAL ELECTICAL CODE - 2014 ED.
INTERNATIONAL PLUMBNIG CODE - 2015 ED.

PROJECT DESCRIPTION
NEW-BUILD RESTROOM AND SHOWER FACILITY FOR THE MISSOURI STATE FAIRGROUNDS CAMPGROUND EXPANSION CONTAINING 12 SINGLE-OCCUPANT RESTROOMS AND 4 SINGLE-OCCUPANT SHOWERS.

CODE INFORMATION

		TABLE/SECTION/REFERENCE
BUILDING/PROJECT USE:	RESTROOM AND SHOWER FACILITY	IBC SECTION 312.1
CONSTRUCTION TYPE	TYPE V-B (NON-SPRINKLED)	IBC TABLE 601
OCCUPANCY CLASSIFICATION	GROUP "U" NEW ASSEMBLY	IBC SECTION 303
BASE ALLOWABLE AREA "U"	5,500 SQ. FT.	IBC SECTION 506.2
GROUP "U" AREA (GROSS)	1,053 SQ. FT	
COVERED EXTERIOR AREA	655 SQ. FT.	
ACTUAL AREA	1,708 SQ. FT.	
ALLOWABLE STORIES	1 STORY	IBC TABLE 504.4
ACTUAL NUMBER OF STORIES	1 STORY	
ALLOWABLE HEIGHT	40' - 0"	IBC TABLE 504.3
ACTUAL HEIGHT IN FEET	17' - 2"	

FIRE RESISTIVE REQUIREMENTS

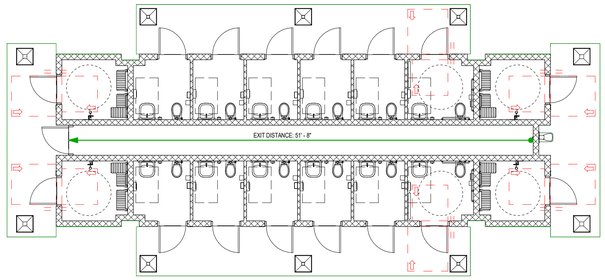
		TABLE/SECTION/REFERENCE
PRIMARY FRAME	**0 HRS**	**IBC TABLE 601**
NON-BEARING WALLS	**0 HRS**	**IBC TABLE 601**
BEARING WALLS INT./ EXT.	**0 INT. / 0 EXT. HRS**	**IBC TABLE 601**
FLOOR CONSTRUCTION	**0 HRS**	**IBC TABLE 601**
CEILING/ROOF	**0 HRS**	**IBC TABLE 601**
CORRIDORS	**0 HRS**	**IBC TABLE 1018.1**

CEILING HEIGHT NOTES: (IBC 1208)

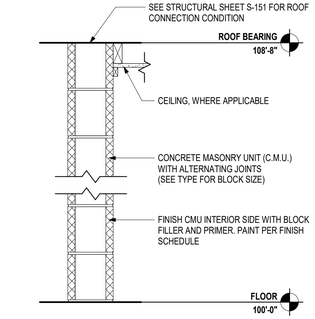
1. ALL MEANS OF EGRESS TO HAVE A MINIMUM CEILING HEIGHT OF 7'-6" A.F.F., NOR SHALL HAVE ANY PROJECTION FROM THE CEILING BE LESS THAN 6'-8" A.F.F.
2. OCCUPIED SPACES, HABITABLE SPACES AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6" A.F.F.
3. BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0" A.F.F.

GENERAL EXITING REQUIREMENTS

		TABLE/SECTION/REFERENCE
EXIT TRAVEL DISTANCE	**300 FEET**	**IBC TABLE 1017.2**
DEAD END CORRIDOR	**20 FEET**	**IBC SECTION 1020.4**
COMMON PATH OF TRAVEL	**75 FEET**	**IBC TABLE 1006.2.1**
MIN. CORRIDOR WIDTH	**44", OR 36" IF OCC. < 50**	**IBC TABLE 1020.2**



A7 LIFE SAFETY PLAN
1/8" = 1'-0"



WALL TYPE M

TYPE	WALL DESCRIPTION
M	• 8"X8"X16" (NOM.) C.M.U. TO DECK ABOVE • NON RATED • RE: ELEVATIONS FOR FINISH
M1	• 4"X8"X16" (NOM.) C.M.U. TO DECK ABOVE • NON RATED

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
SAM COLLINS
NUMBER A-2017002629
ARCHITECT
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CAD DWG FILE: 23072_R24_MOSTATEFAIRGROUND
DRAWN BY: SG
CHECKED BY: SO
DESIGNED BY: RW

SHEET TITLE:

LIFE SAFETY AND PROJECT INFO.

SHEET NUMBER:

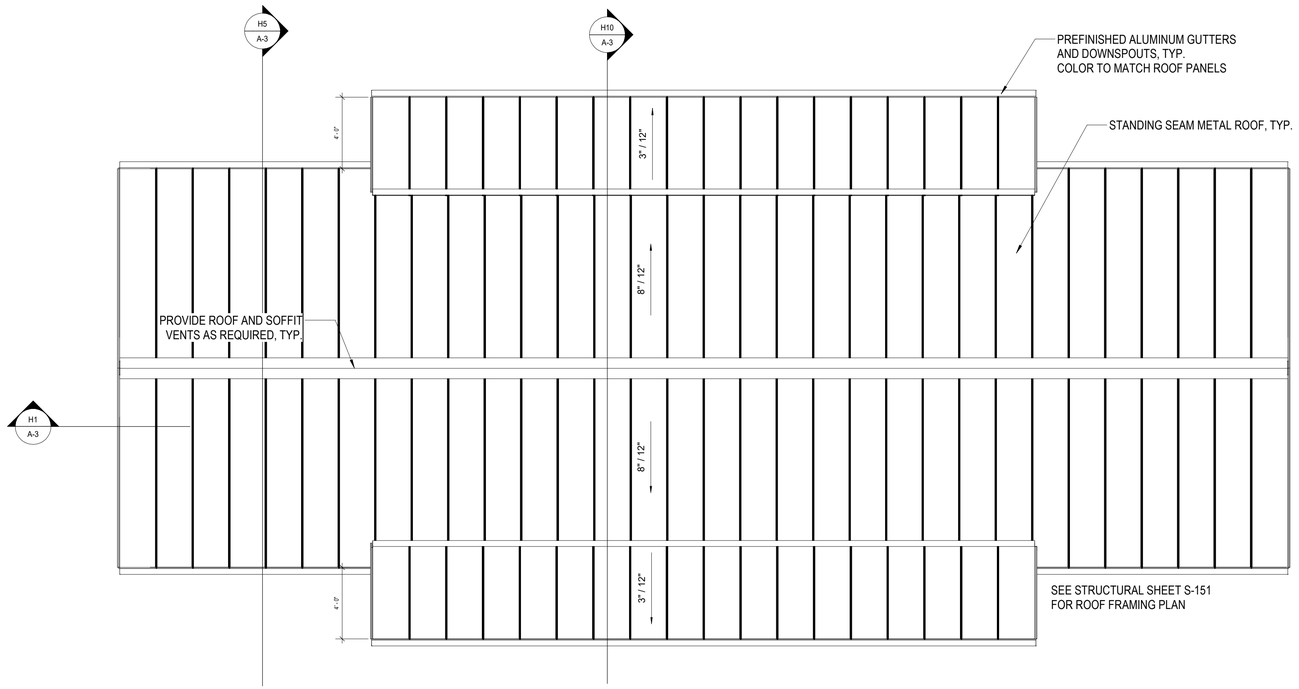
G-003

GENERAL NOTES: ROOF PLANS

1. RE: SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE ROOF PLAN ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.

GENERAL NOTES: FLOOR PLANS

1. SEE GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
2. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES DIFFERING FROM THAT IS SHOWN PRIOR TO PROCEEDING WITH WORK
3. ARCHITECTURAL ELEVATION 100'-0"
4. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
5. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES. SEE GENERAL SHEETS.
6. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
7. RE: DOOR SCHEDULE FOR DOOR AND DOOR FRAME FINISHES.
8. ALL WOOD PRODUCTS TO BE FIRE-RETARDANT, INCLUDING BLOCKING AND PLYWOOD.
9. ALL PLUMBING FIXTURES ON PLAN-SOUTH SIDE OF RESTROOM FACILITY ARE TO MIRROR THE PLACEMENT AND DIMENSIONING OF PLUMBING FIXTURES ON THE PLAN-NORTH SIDE OF THE FACILITY.



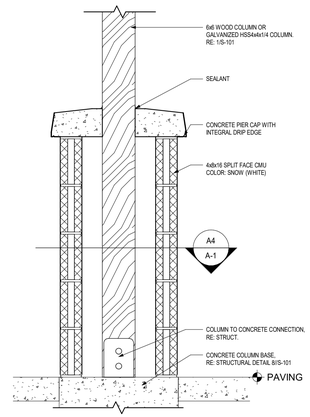
G6 ROOF PLAN
1/4" = 1'-0"

ACCESSORY SCHEDULE

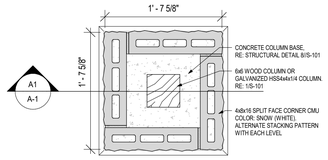
TYPE MARK	MANUFACTURER	DESCRIPTION	MODEL	W x D x H	FINISH	REMARKS
1	BOBRICK	MIRROR, WITH SS FRAME	B-1658	24" x 3/8" x 48"	SS	1,2
2	BOBRICK	SOAP DISPENSE, SURFACE MOUNTED	B-2111	4-3/4" x 3-1/2" x 8-1/8"	SS	1
3	BOBRICK	FINO COLLECTION SURFACE MOUNTED PAPER TOWEL DISPENSER	B-9262	11-3/4" x 4" x 13-1/2"	SS	1
4	BOBRICK	CLASSIC SERIES SURFACE MOUNTED MULTI-ROLL	B-2888	6" x 6" x 11"	SS	1
5	BOBRICK	SURFACE MOUNTED NAPKIN DISPOSAL	B-270	7-1/2" x 3-3/4" x 10"	SS	1
6	BOBRICK	GRAB BAR, 1-1/2" DIA., SS, 42"	B-6806-42	1-1/2" DIA x 42"	SS	1
7	BOBRICK	GRAB BAR, 1-1/2" DIA., SS, 36"	B-5806-36	1-1/2" DIA x 36"	SS	1
8	BOBRICK	VERTICAL GRAB BAR, 1-1/2" DIA., SS,18"	B-6806-18	1-1/2" DIA x 18"	SS	1
9	HEWI	HEWI RECTANGULAR SHOWER COMPARTMENT SEAT WITH LIFT-UP FEATURE (USA)	801-51US450	33-1/2" x 10-1/4" x 22-3/4"	92 ANHRACITE GREY	1
10	HEWI	L-SHAPED SHOWER COMPARTMENT SEAT WITH LIFT-UP FEATURE (USA)	801-51US330L	29-1/8" x 10-1/4" x 15"	92 ANHRACITE GREY	1
11	KOALA KARE	BABY CHANGING STATION	KB300-00	36" x 4" 20-3/4"	BEIGE 00	1

ACCESSORY GENERAL NOTES:
A. ALL TOILET ACCESSORY LOCATIONS BASED ON FLOOR PLAN LAYOUT.
B. REFER TO G002 AND MANUFACTURER'S SPECIFICATIONS FOR MOUNTING HEIGHTS.
C. COORDINATE ALL MOUNTING HEIGHTS W/ PLUMBING FIXTURES TO ALLOW PROPER OPERATION & INFORM ARCHITECT IN WRITING OF ANY CONFLICTS.
D. G.C. TO VERIFY DIRECTLY W/ OWNER TO DETERMINE MOUNTING HEIGHTS, U.N.O.

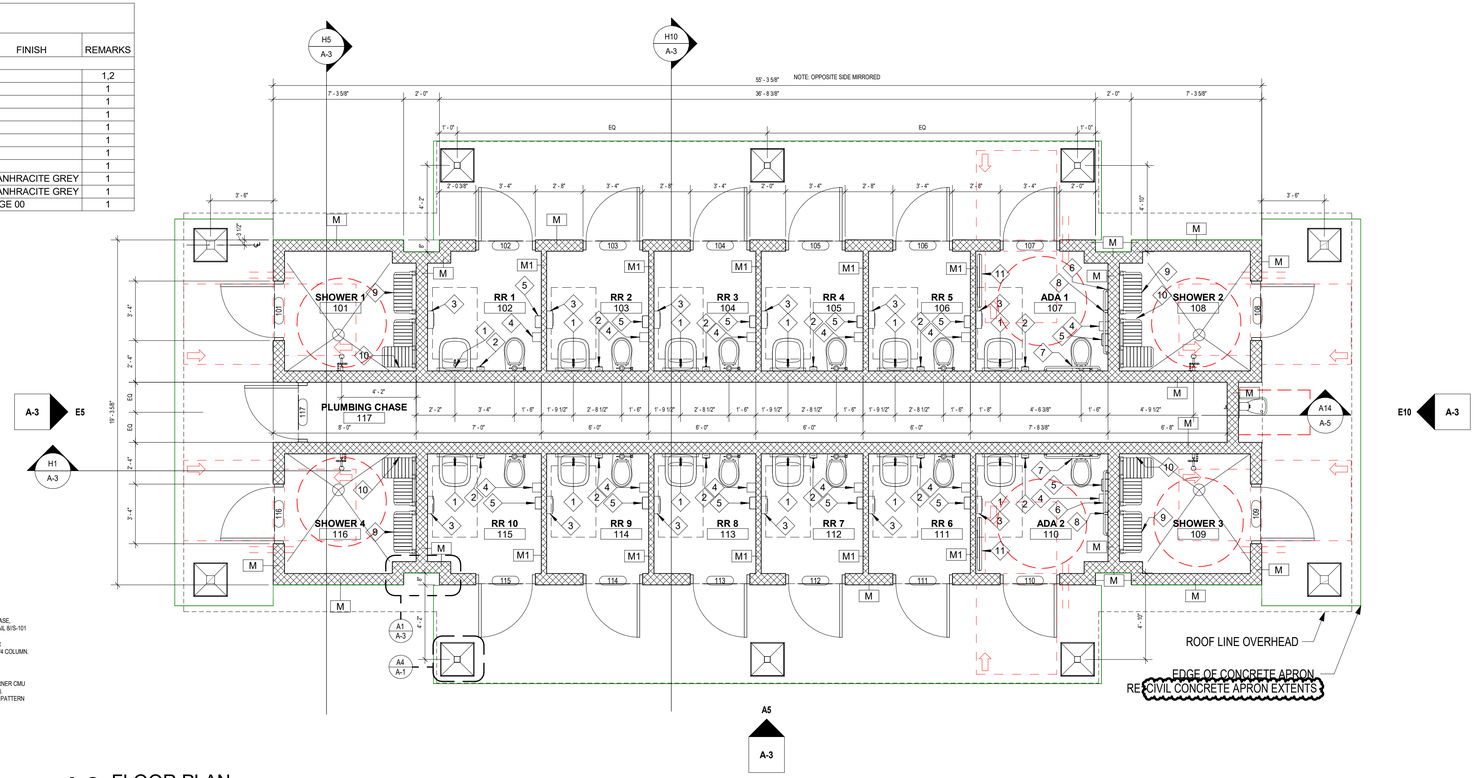
ACCESSORY REMARKS:
1. SURFACE MOUNTED.
2. MIRRORS TO BE CENTERED AT SINKS, TYP.



A1 COLUMN BASE SECTION
1" = 1'-0"



A4 COLUMN BASE DETAIL
1" = 1'-0"



A6 FLOOR PLAN
1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
SAM COLLINS
NUMBER A-2017002629
ARCHITECT
4.19.2025

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

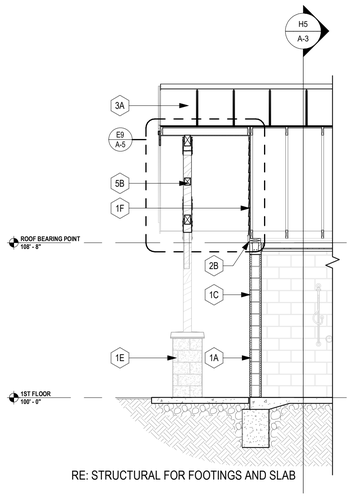
REVISION: 1
DATE: 09/19/2025
REVISION:
DATE:
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DATE:

ISSUE DATE: 09/19/2025
09/05/2025

CAD DWG FILE: 23072_R24_MOSTATEFAIRGROUND
DRAWN BY: SG
CHECKED BY: SO
DESIGNED BY: RW

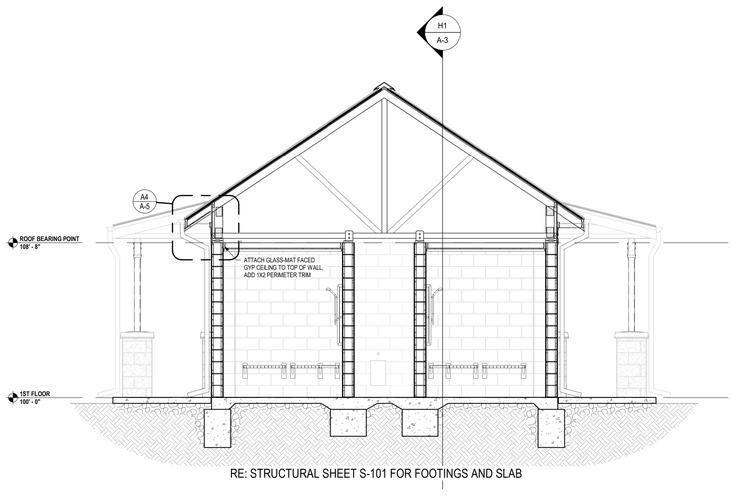
SHEET TITLE:
PLANS

SHEET NUMBER:
A-1



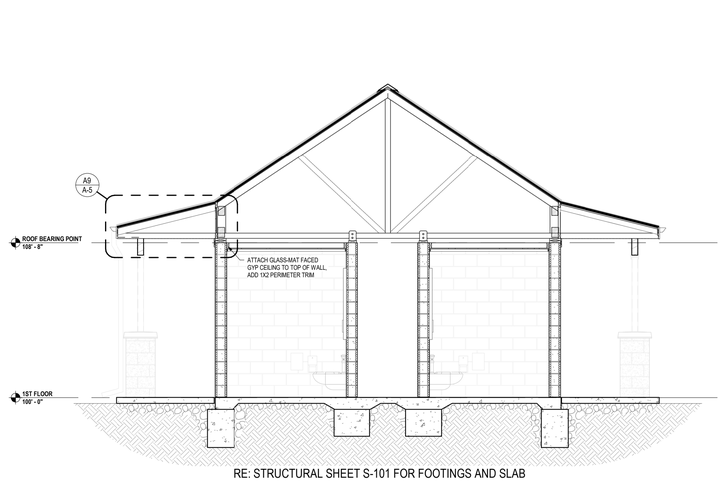
RE: STRUCTURAL FOR FOOTINGS AND SLAB

H1 WALL SECTION 1
1/4" = 1'-0"



RE: STRUCTURAL SHEET S-101 FOR FOOTINGS AND SLAB

H5 BUILDING SECTION 2
1/4" = 1'-0"



RE: STRUCTURAL SHEET S-101 FOR FOOTINGS AND SLAB

H10 BUILDING SECTION 1
1/4" = 1'-0"

CMU COLOR SWATCHES

SPLIT FACE

BASIS OF DESIGN - BEST BLOCK SPLIT FACE 8X8X16



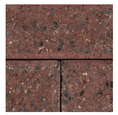
SNOW (WHITE) 1A 1E



EBONY (DARK GRAY) 1B

GROUND FACE

BASIS OF DESIGN - BEST BLOCK GROUND FACE 8X8X16



BRICK RED (DARK RED) 1C



PEWTER (LIGHT GRAY) 1D

GENERAL NOTES: EXTERIOR ELEVATIONS

1. RE: SHEET G001 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), FACE OF STUD, AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.

KEY NOTES EXTERIOR ELEVATIONS:

1A	8" SPLIT FACE CMU - COLOR 1 - SNOW (WHITE) LOCATION: EXT. SHOWER WALLS - LOWER
1B	8" SPLIT FACE CMU - COLOR 2 - EBONY (DARK GRAY) LOCATION: EXTERIOR ALCOVES
1C	8" GROUND FACE CMU - COLOR 1 - BRICK RED (DARK RED) LOCATION: EXT. SHOWER WALLS - UPPER
1D	8" GROUND FACE CMU - COLOR 2 - PEWTER (LIGHT GRAY) LOCATION: EXT. RESTROOM WALLS
1E	4" SPLIT FACE CMU - COLOR 1 - IVORY (WHITE) LOCATION: COLUMN BASES
1F	FIBER CEMENT SIDING - COLOR - WHITE
2A	CONCRETE COLUMN PIER CAP
2B	FIBER CEMENT TRIM - COLOR - WHITE
3A	STANDING SEAM METAL ROOF - COLOR: "PATINA GREEN" B.O.D. BERRIDGE. ("ZINC GREY" - 2ND CHOICE)
3B	PREFINISHED ALUMINUM GUTTER - COLOR TO MATCH STANDING SEAM METAL ROOF
3C	PREFINISHED ALUMINUM DOWNSPOUT - COLOR TO MATCH STANDING SEAM METAL ROOF
4A	RESTROOM SIGNAGE, SEE: C1//A-5
5B	ARCHITECTURAL TRUSS - STAIN GRADE WOOD, RE: 10//S-601
5C	WOOD OR METAL COLUMN, RE: STRUCT.

E5 ELEVATION - SHOWER END LEFT
1/4" = 1'-0"

E10 ELEVATION - SHOWER END RIGHT
1/4" = 1'-0"

A5 ELEVATION - RESTROOM ENTRY - OPPOSITE SIDE MIRRORED
1/4" = 1'-0"

A1 ALCOVE PLAN DETAIL
1" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
SAM COLLINS
MEMBER
-2017002629
ARCHITECT
9.19.2025

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MISSOURI
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NEW CAMPGROUND

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SITE # 1501
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CAD DWG FILE: 23072_R24_MOSTATEFAIRGROUND
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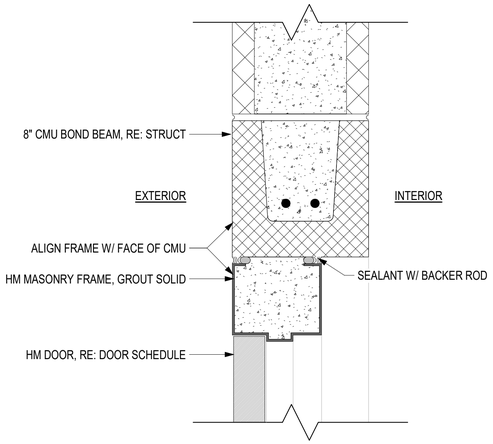
SHEET TITLE:

ELEVATIONS AND SECTIONS

SHEET NUMBER:

A-3

37 OF 59
09/19/2025



H1 HM DOOR HEAD DETAIL
3" = 1'-0"

A. Manufacturer's Abbreviations:

1. MK - McKinney
2. SA- Sargent
3. NO - Norton
4. RO - Rockwood
5. PE - Pemko

Hardware Sets

Set: 1.0

Doors: 117
Description: STOREROOM LOCK CPS CLOSER GASKET WF

3	Hinge, Full Mortise	T4A3786/T4A4786 NRP FT 4-1/2" x 4-1/2"	US26D	MK 087100
1	Storeroom or Closet Lock	10XG04 LMW	626	SA 087100
1	Surface Closer	CPS7500	689	NO 087100
1	Kick Plate	K1050 10" x 2" LDW 4BE CSK	US32D	RO 087100
1	Threshold	2005AT	689	PE 087100
1	Gasketing	2891AS	689	PE 087100
1	Sweep	3452AV	689	PE 087100

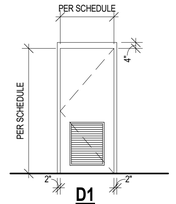
Set: 2.0

Doors: 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116
Description: STOREROOM LOCK w/ INDICATOR CPS CLOSER GASKET WF

3	Hinge, Full Mortise	T4A3786/T4A4786 NRP FT 4-1/2" x 4-1/2"	US26D	MK 087100
1	Storeroom or Closet Lock	10XG04 LMW	626	SA 087100
1	Indicator Deadbolt	468 V54	626	SA 087100
1	Surface Closer	CPS7500	689	NO 087100
1	Kick Plate	K1050 10" x 2" LDW 4BE CSK	US32D	RO 087100
1	Threshold	2005AT	689	PE 087100
1	Gasketing	2891AS	689	PE 087100
1	Sweep	3452AV	689	PE 087100

DOOR HARDWARE

DOOR SCHEDULE									
DOOR NO.	ROOM:NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH
101	SHOWER 1	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
102	RR 1	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
103	RR 2	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
104	RR 3	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
105	RR 4	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
106	RR 5	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
107	ADA 1	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
108	SHOWER 2	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
109	SHOWER 3	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
110	ADA 2	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
111	RR 6	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
112	RR 7	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
113	RR 8	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
114	RR 9	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
115	RR 10	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
116	SHOWER 4	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT
117	PLUMBING CHASE	3' - 0"	7' - 0"	D-1	HM	PT	WELDED FRAME	HM	PT

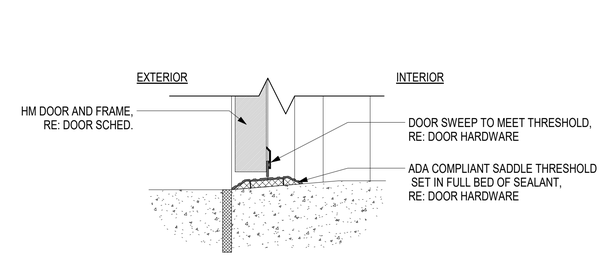


D1
FLUSH HM DOOR
W/ LOUVERS
RE: DOOR SCHEDULE

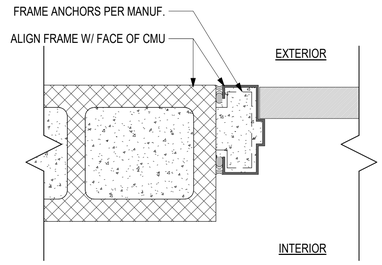
DOOR SCHEDULE NOTES:

1. PROTECT DOOR AND FRAME FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION.
2. DOORS TO BE 1-3/4" THICK, UNLESS NOTED OTHERWISE ON DOOR SCHEDULE.
3. HM REFERS TO HOLLOW METAL

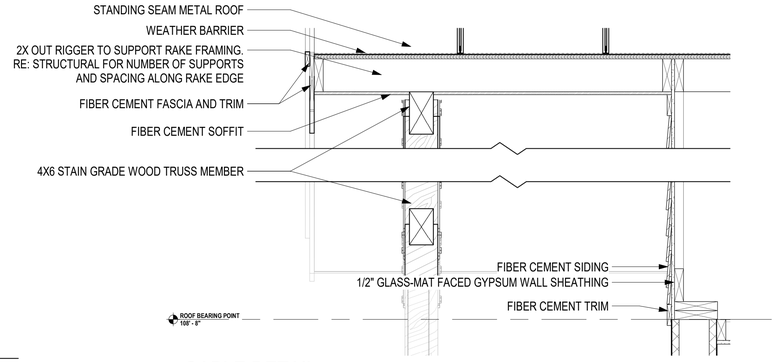
DOOR TYPE ELEVATIONS



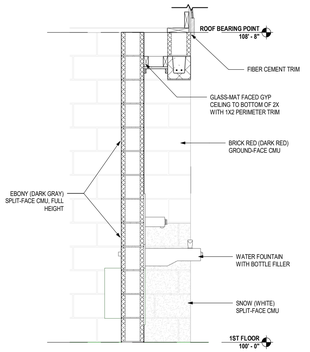
E1 HM DOOR SILL DETAIL
3" = 1'-0"



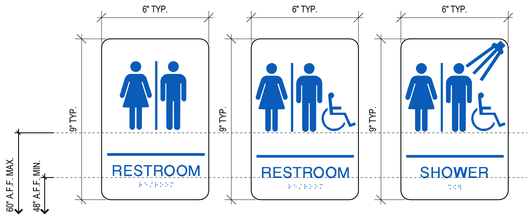
E5 HM DOOR JAMB DETAIL
3" = 1'-0"



E9 GABLE DETAIL
1" = 1'-0"



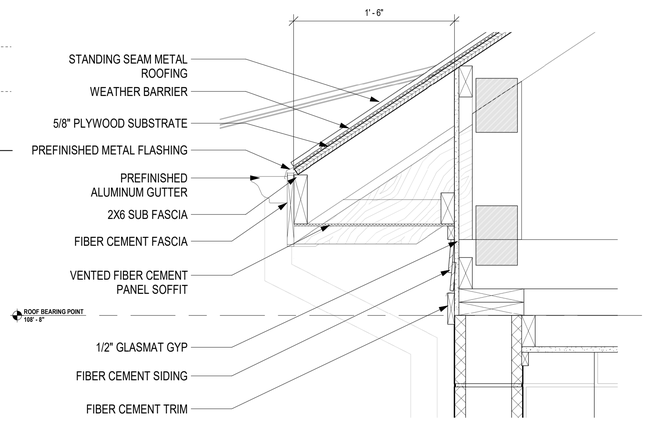
A14 CMU OVERHEAD DETAIL
1/2" = 1'-0"



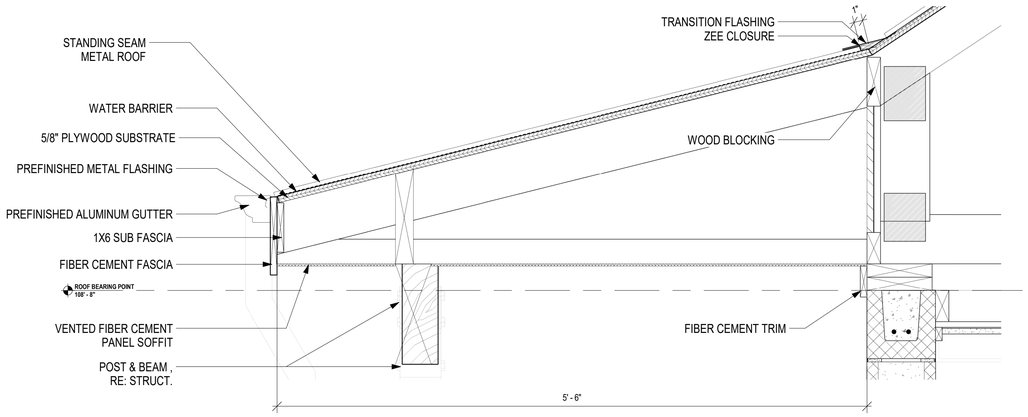
C1 SIGNAGE
3" = 1'-0"

FINISH LEGEND				
SYMBOL	**MATERIAL**	**MANUFACTURER**	**TYPE**	**COLOR**
FLOOR FINISH				
SC-FF	SEALED CONCRETE	TBD	TBD	-
WALL FINISH				
SC-WF	CMU BLOCK	TBD	TBD	-
CEILING FINISH				
PGB	PAINTED GLASS-MAT GYPSUM BOARD	SHERWIN WILLIAMS	SEMI GLOSS	SW7007 CEILING BRIGHT WHITE

ROOM FINISH SCHEDULE			
ROOM TYPE	**FLOOR FINISH**	**WALL FINISH**	**CEILING FINISH**
SHOWER ROOMS	SEALED CONC.	SEALED CONC.	PGB
RESTROOMS	SEALED CONC.	SEALED CONC.	PGB



A4 EAVE DETAIL
1 1/2" = 1'-0"



A9 SHED ROOF DETAIL
1 1/2" = 1'-0"

STATE OF MISSOURI
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MISSOURI STATE FAIRGROUNDS

NEW CAMPGROUND

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CAD DWG FILE: 23072_R24_MOSTATEFAIRGROUNDS
DRAWN BY: SG
CHECKED BY: SO
DESIGNED BY: RW

SHEET TITLE:
SCHEDULES AND DETAILS

SHEET NUMBER:
A-5

1 S001 STRUCTURAL DESIGN CRITERIA AND GENERAL SPECIFICATIONS

1. Building Code:
   A. IBC 2018/ASCE 7-16
   B. Allstate Consultants LLC is the structural engineer of record (SER) and assumes responsibility only for what appears on these drawings and disclaims any responsibility for all other plans, specifications, estimates, reports, or other documents or instruments not sealed by an engineer with our firm relating to, or intended to be used for, in any part or parts of the project to which these drawings refer.

2. Design Loads:
   A. Risk Category = II
   B. Roof dead load = 20 psf (10 psf T&B chord)
   C. Roof live load = 20 psf (unreduced)
   D. Snow load
      1) Ground snow load, Pg = 20 psf
      2) Thermal factor, Ct = 1.2
      3) Exposure factor, Ce = 1.0
      4) Importance factor, Is = 1.0
      5) Flat roof snow load, Pf = 16.8 psf
      6) Rain-on-snow surcharge = 0 psf (reduced per ASCE 7 section 7.10)
      7) Design snow load
         a. Main roof, Ps = 16.8 psf
         b. Canopy, Ps = 20 psf
      8) Unbalanced snow load not a design concern since roof slope is 8:12 or grater
      9) Drifting at change in roof slopes (in addition to Ps)
         a. Drift load, Pd = 20.4 psf
         b. Drift width, Wd = 5 ft
   E. Ponding
      1) Roof slope is 8:12, therefore ponding is not a design concern.
   F. Typical building wind loading – Analytical Procedure
      1) Basic ultimate wind speed (3 second gust), V = 109
      2) Exposure Category C
      3) Importance factor, Iw = 1.0
      4) Internal pressure coefficient, GCpi = ±0.55 (partially enclosed)
      5) Design pressure (ASD) for C&C (components and cladding), a = 3', service load level
         a. Walls (based on 100 sq ft)
            i) 19.4 psf (0.6WL) – zone 4 (typical)
            ii) 21.0 psf (0.6WL) – zone 5 (corners)
      6) Design pressure (ASD) for MWFRS (main wind force resisting system)
         a. Roof net uplift (5 psf Dmin)
            i) 16.3 psf (0.6Dmin+0.6WL)
   G. Seismic loading – Equivalent Lateral Force Procedure
      1) Importance Factor, Ie = 1.0
      2) Site Class C, per the geotechnical report
      3) Sds = 0.112 (Ss = 14.0%)
      4) Sd1 = 0.093 (S1 = 8.2%)
      5) Seismic Design Category B
      6) Base shear
         a. System: Ordinary Reinforced Masonry Shear Walls
            i) Response coefficient, R = 2
            ii) Deflection amplification factor, Cd = 2
            iii) System over strength factor, Ω_0 = 2.5
         b. Base shear, V = 0.056W
         c. Component design (i.e. non-load bearing walls)
            i) Ip = 1.0, ap = 2.5, Rp = 2.5
            ii) Fp = 0.01Wp
      7) Maximum story drift = 0.007h
   H. Foundation design (see geotechnical report)
      1) Max net allowable soil bearing = 2,000 psf

3. General Notes:
   A. Substitution requests, for products other than those specified herein, shall be submitted by the contractor to the engineer along with calculations that demonstrate that the substituted product is capable of achieving the pertinent equivalent performance values (minimum) of the specified product having a research report recognizing the product for the appropriate design procedure and/or standard(s) as required by the building code. The submittal should include a side-by-side comparison of the specified versus the proposed product.
   B. Roof framing shall be laid out in equal spacing per bay unless noted otherwise.
   C. The notes on the structural drawings are applicable to all drawings in addition to the project specifications. These notes take precedence over the specifications and architectural drawings.
   D. Connections for mechanical, electrical, and plumbing (MEP) and miscellaneous architectural items (i.e., mechanical unit curbs, mechanical units, plumbing drains, duct supports, flashing nailers, bathroom partitions, fixture mounting, ladder mounting, etcetera) see architectural or MEP drawings.
   E. Wood trusses designed by the supplier (see Division 5) shall have the same or similar layout as indicated on the drawings. Changes to the layout resulting in a modified loading/reaction configuration may need to be verified to ensure the new configuration meets the design intent. The general contractor shall be responsible for any associated costs for structure verification, redesign, coordination, etc. resulting in a modification of the truss layout or design intent.
   F. Do not hang any mechanical, electrical, etc from bridging, roof deck, or non-structural load supporting elements. All such items shall be supported from joists, beams, or structural load supporting elements.
   G. Drawings provide a system for the in-place structure. Methods of construction to achieve the in-place system are not addressed unless specifically noted.
   H. During erection of the building, the contractor shall be responsible for temporary bracing to withstand all loads to which the structure may be subjected, including lateral loads, stockpiles of material and equipment. Such bracing shall be left in place as long as required for safety and until all framing, including roof deck is in place.
   I. It is the contractor's (installer, subcontractor, tradesman, material supplier, general contractor, etc.) responsibility to be familiar with any local, city, county, state or federal regulations, codes, ordinances, etc. that may apply to their work, materials, equipment or methods of construction.
   J. It is the contractor's responsibility to supervise, direct, or have control over all work done by any contractor. The engineer/design professional does not have the authority to stop work. The contractor shall have authority for or shall be responsible for the means, methods, techniques, sequences or procedures of construction selected or used by any contractor for safety precautions and programs incident to the contractor's work.
   K. Unless noted, submit shop drawings of all fabricated materials for review. Design drawings shall not be reproduced for use as shop drawings without written consent of engineer. Shop drawings will not be reviewed unless they were checked, bear the initial of the checker and are stamped "approved" by the general contractor. See submittal requirements in the notes as well the following:
      1) Product specifications for engineered systems and accessories including wood, steel, concrete, and masonry systems.
      2) Material certificates for structural materials including wood, steel, concrete, and masonry.
      3) Shop drawing review is only for general conformance with the design concept of the project and general compliance with the information given in the construction documents. corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications and applicable laws, codes and regulations. Review of a specific item shall not include review of an assembly of which the item is a component. The contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the work with that of all other trades and performing all work in a safe and satisfactory manner.
   L. Where a detail, typical detail, section, typical section, or a note is shown for one condition, it shall apply for all the like or similar conditions unless noted otherwise.
   M. All dimensions shown on these drawings shall be verified by the contractor prior to the approval of shop drawings by the engineer. Conflicts on the structural, architectural, MEP, civil, or other drawings shall be communicated to the engineer prior to completing any work.

4. Special Inspection General Requirements:
   A. See "Schedule of Special Inspection Services" for the statement of special inspections as required by IBC 1704.
   B. Special inspection agencies
      1) Agencies shall be under direct supervision of a professional engineer registered in the state of Missouri.
      2) Laboratory facilities shall meet applicable ASTM/ICC specifications.
      3) Except for registered professional engineers, all testing technicians, inspectors, and engineers performing special inspections shall be certified per building code requirements as applicable for the item tested.
      4) The special inspector shall furnish inspection reports in a timely manner as the project progresses to the building official, owner (or owner's agent), architect, engineer, and general contractor. During the construction process, the special inspector shall inform the contractor and the engineer immediately if any deviations or nonconformities from the contract documents are discovered.
   C. A final special inspection report (per IBC 1704) shall be submitted after the completion of all the structural systems described herein.

5. Structural Engineer Of Record (SER) Site Visits:
   A. Contractor shall notify architect/engineer five (5) working days prior to the following construction milestones:
      1) CMU bearing/shear walls: at half of CMU construction.
      2) Roof structure: after structure is erected and before insulation and roofing is installed.
   B. Failure to notify architect/engineer of any construction milestone may result in contractor having to remove work for the purpose of review at contractor's expense.
   C. Premature notification for site visit will result in an additional site visit with all expenses and fees paid by the contractor.

6. Geotechnical Data and Foundation System (Division 2):
   A. The following design information is from the geotechnical report by Allstate Consultants, LLC. (PN 23117.02) dated 01-19-24.
   B. Footings shall bear on the existing native undisturbed clays or controlled compacted clays fill founded at least one foot below compacted fill surface as directed by a geotechnical engineer.
   C. Footings bearing on native undisturbed clays or controlled compacted clay fill are designed for a maximum net bearing capacity of 2,000 psf.
   D. The bottom of the footing excavation shall be cleaned of all loose soil and water and then be thoroughly compacted with a mechanical tamper prior to installing reinforcing steel.
   E. A minimum of 36" of low volume change material (LVCM), including drainage course (see notes), shall be placed under slabs-on grade per geotechnical engineers recommendations and extend 5'-0" beyond the building foot print.
   F. All topsoil and other unsuitable bearing material shall be removed. A geotechnical engineer shall inspect the excavated area to ensure all materials requiring removal have been removed, all necessary surface compaction is performed, and to verify the soil bearing capacity used for design.
   G. Frost cover from exterior grade to bottom of footing shall not be less than 3'-0". Foundation systems may require lowering to provide frost depth.
   H. Slabs-on-grade shall be placed over 6" of compacted drainage course (4" of drainage course with the upper 2" choked off with fine graded course at GC option) typical. A 15 mil reinforced polyethylene vapor barrier (ASTM E 1745, Class A) shall be placed above the drainage course and below the slab. Single ply poly is prohibited. Provide Stego Wrap by Stego Industries or approved equivalent. All joints and penetrations shall be lapped 6" minimum and sealed with seam tape and mastic as recommended by the manufacturer.
   I. The foundation system is designed for the local parameters contained herein. This design does not consider or account for the global stability of the site or slopes.
   J. Site grading shall be configured to allow adequate drainage away from the structure. See site grading plan for this information. Unless more detailed information is provided on the plans slope exterior grade away from the structure a minimum of 6" in the first 10' to prevent ponding water and direct water from gutters/downspouts a minimum of 10' beyond the building footprint.

7. Reinforced Concrete (Division 3):
   A. Design codes: Building Code Requirements for Reinforced Concrete (ACI 318), latest adoption.
   B. Material strengths
      1) Concrete compressive strength (f'c) at 28 days:
         a. Footings (Exposure Class F2) 3,000 psi
         b. Interior slabs-on-grade (Exposure Class F0) 4,000 psi (3/4" aggregate, 540 lbs/cu yd of cementitious content min)
      2) Slump (plus or minus 1 1/2 inch)
         a. All concrete unless noted otherwise, shall have a slump of 5". When water reducing admixture is added to increase concrete slump, concrete shall have a slump of 5" before the admixture is added and 8" after.
      3) Air Content
         a. All concrete exposed to weather shall be air entrained per ACI requirements – 6% for 3/4" max aggregate, plus or minus 1.5%.
      4) The contractor/producer is required to furnish concrete that is designed to the average strength level that will meet the higher of the f'c (a) as specified for structural requirements, (b) values of f'c associated with the specified exposure classification per ACI 318, or (c.1) values of f'c that were developed from correlating strength with the results of ASTM C1202 tests, or (c.2) values of f'c that were developed from correlating strength with water/cement ratio.
      5) Reinforcing steel
         a. Bars and ties ASTM A615, Grade 60 (Fy=60ksi)
         b. Mechanical butt splices, Bar-Lock coupler by Bar-Lock (MBT) or Zap Screwlok by BarSplice or equivalent, capacity shall exceed 125% of specified yield of reinforcing.
   C. Notes:
      1) Placement of concrete and reinforcement shall be in accordance with ACI and CRSI standards. Lap or dowel continuous bars with Class B splices per ACI 318 unless noted otherwise. Lap or dowel bars 50 bar diameters (d ₓ) minimum. Provide the following lap or dowel bars (based on minimum ACI concrete cover and bar spacing, uncoated bars, and normal weight concrete) unless noted.
         a. #3 – 19", #4 – 25", #5 – 32", #6 – 38", #7 – 44", #8 – 50", #9 – 57", #10 – 63", #11 – 69"
      2) All reinforcement, anchors, anchor bolts, embed plates, etc. shall be secured in position prior to placing concrete.
      3) Provide 1/2" chamfer at all exposed corners unless notes otherwise.
      4) Exposed concrete surfaces shall be finished to a uniform appearance per ACI 301.
      5) Reinforcing shown on details is for concept only, follow CRSI placement and cover requirements unless noted otherwise.
      6) Furnish the following concrete cover at reinforcing bars unless shown otherwise on the drawings:
         a. Slabs-on-grade place reinforcing in center of slab
         b. Pedestals 2" cover at ties
         c. Footings 3" cover at bottom and sides
      7) Maximum aggregate size shall not exceed 3/4 the concrete cover (i.e. 3/4" max aggregate for 1" cover).
      8) At corners/intersections of all footings, etc., supply corner bars 4'-0" long (2'-0" each direction) minimum matching size and spacing of all horizontal bars. See details for longer lengths if required.
      9) Floor control joints(s) unless noted, shall be located at non-load bearing CMU walls and spaced equally with maximum spacing in feet for interior slab-on-grade of thickness in inches times 3.0. Unless noted, maximum joint spacing in feet of exterior slabs shall be slab thickness in inches times 2.0. The joint spacing shall not be greater than 15'. The ratio of slab panel dimensions shall not exceed 1.5:1. Control joints spacing shall be reduced at hot and/or dry climate. Saw cut slab (3/16" wide times slab thickness divided by 4) as soon as the surface is firm enough so that it will not be damaged by the blade. The optimum time to cut the slab will be the contractor's responsibility. Generally, in moderate weather conditions, this time will be within 4 to 12 hours after the slab is placed.
         a. The contractor shall submit slab-on-grade joint layout for approval.
      10) Reinforcing for slabs-on-grade shall be #4's at 24"o.c. each way. Terminate this reinforcing at construction joints, see details typical.
      11) Slab-on-grade reinforcing shall be supported on wire bar-type supports (provide sand plates if required) of sufficient height to insure that reinforcing is at the proper location with maximum spacing of 4'-0". Reinforcing pull-up method is not permitted.
      12) Provide (2) #5x5'-0" long diagonal bars at 3"o.c. at slab-on-grade reentrant corners and corners of openings.
      13) Joint Sealant shall be Sikaflex 15LM by Sika Corporation U.S. or equivalent.
      14) Concrete should be protected from premature drying in accordance to ACI recommendations (including ACI 308.1). Exposed concrete surfaces (not intended to be covered by finishes such as flooring) shall be treated with Sinak Lithiumcure 1000 for exterior applications and Lithiumcure 2000 for interior applications, or equivalent. Alternatively, a 7-day moisture cure can be utilized as an equivalent. Moisture cure with a water saturated, absorptive cover kept continuously wet for a minimum of (7) days. Cover concrete surfaces with 12" lap over adjacent absorptive covers. Concrete to receive finishes such as flooring can utilize Sinak VC-5 for vapor control in lieu of moisture cure, refer to product data sheet.
   D. Shop Drawings
      1) Concrete mix designs – specify placement location of each mix.
      2) Concrete slab-on-grade control joint layout.
      3) Reinforcing steel in concrete showing elevations and control joints typical. Provide a plan with elevation labels.

8. Masonry (Division 4):
   A. Design code: Building Code Requirements for Concrete Masonry Structures (ACI 530), latest adoption.
   B. Material strengths:
      1) Concrete unit masonry ASTM C90, Grade N, Type I, lightweight (density of unit = 105 pcf typical), min block compressive strength = 2,000 psi, specified design strength of masonry f'm=2,000 psi. Provide normal weight block (density of unit = 125pcf) for block exposed to weather.
      2) Mortar for masonry (ASTM C270):
         a. Below grade Type M, f'c=2,500 psi
         b. Load bearing/shear walls Type M or S, f'c=1,800 psi
         c. All other Type N, f'c=750 psi
      3) Corefill concrete grout for masonry (ASTM C476)
         a. Typical walls f'c=2,000 psi, 8" to 10" slump, 3/8" max aggregate.
      4) Reinforcing steel ASTM A615, Grade 60.
      5) Plain steel wire ASTM A82 (Fy=70ksi).
   C. Notes:
      1) All concrete unit masonry and mortar with exterior exposure shall be made with integral water repellent equivalent to Dry-Block System by W.R. Grace and Co. Integral water-repellent admixture (liquid polymeric) shall not reduce flexural bond strength. Units and mortar made with integral water repellent shall show no visible water or leaks on the back of test specimen when tested according to ASTM E 514 with test period extended to 24 hours.
      2) Provide standard weight (9ga/0.148" side rods), galvanized ladder type horizontal joint reinforcement (per ACI 530) every second course unless noted otherwise (see plans). Provide standard premanufactured tee and corner joint reinforcing at intersections and corners of all walls typical.
      3) Structural walls at intersections shall be connected as follows:
         a. 50% of the masonry units at the interface shall interlock or,
         b. Walls shall be regularly toothed with 8" max offsets and anchored by:
            i) 1/4"x1 1/2"x28" including 2" long 90° bend at each end to form a zee shape grouted in CMU at 4'o.c. max or,
            ii) Intersecting bond beams with (2) #4's continuous shall be provided at 4'o.c. max.
      4) Provide continuous bond beams where indicated, reinforced with (2) #4 bars.
      5) See schedule on plans for load bearing lintels.
      6) Reinforcement splices shall be a minimum 48 bar diameters or as noted on the drawings. Splice shall be wire tied at each end and 18"o.c. maximum. Provide Heckmann wire rebar positioner or Hohmann and Barnard "RB" rebar positioners (or equivalent) with required lap for #5 bars or larger. Alternatively, mechanical bar splices may be used at the discretion of the contractor (specified in the Concrete – Division 3 section). Rebar positioners are required at all vertical reinforcing at grouted and reinforced cells containing more than one bar. Provide rebar positioners at 48"o.c. maximum.
      7) All vertical cells reinforced and filled with grout shall be vertically aligned to maintain a continuous unobstructed cell area not less than 3" by 3". Provide 1/8" diameter wire bar positioners at 48" max spa or as required.
      8) Provide control joints (keyed type) at a maximum spacing of 24' unless shown otherwise. Also, provide control joints so that the maximum ratio of wall panel length to height is three. Provide control joints at change in wall height. Reinforce each side of joint with (1) #5 vertical bar in (1) fully grouted core through entire height of wall and embedded into foundation unless noted. Continue bond beam horizontal reinforcing through these joints typical. Also, see the load bearing masonry lintel schedule for additional requirements.
      9) All non-bearing masonry walls shall be isolated from the framing members. Provide 2" vertical gap min for structure deflection unless noted otherwise.
      10) Intersections of non-load bearing (not shown on structural plans) and load bearing/shear wall CMU, provide a 3/8" isolation joint with sealant (see architectural plans).
      11) All masonry for load bearing and shear walls shall be running bond unless noted.
      12) All load bearing and shear walls shall have continuous reinforced horizontal bond beams at bottom of walls, top of walls, and steel bearing locations (including roof bearing locations). At corners and intersections of all load bearing and shear walls, provide corner bars at bond beam locations matching size and number of continuous reinforcement. Provide splices with 48 bar diameters at corner bars typical.
      13) Provide #3 dowels at top of all structural walls matching location of vertical reinforcing/grouted cores. Top of dowls shall have an ACI standard 180° hook in bond beam and shall extend 18" into wall.
      14) CMU wall reinforcing:
         a. 8-inch CMU walls, bearing height 15' or less unless noted otherwise, #5's at 40" o.c. vertical in fully grouted cores.
         b. Non-bearing partition walls shall have #4's at 48" o.c. vertical in fully grouted cores min unless noted otherwise.
      15) Provide minimum of (2) #5 vertical bars in 8" CMU in (2) fully grouted cores at jambs of all openings, corners of walls, and wall intersections through entire height of wall and embedded into foundation unless noted.
         a. The quantity of jamb reinforcing of CMU wall openings shall be equal to the vertical reinforcing displaced or cut for the opening and shall be placed half on each side of opening unless noted otherwise.
      16) Vertical reinforcing steel shall have a minimum clearance of 3/4" from masonry and shall be positioned in the center of the wall, unless noted otherwise.
      17) All structural CMU (shown on structural plans) shall have an 8" nominal width typical unless noted.
      18) CMU lintels shall be as follows unless noted otherwise.
         a. Non load bearing CMU reinforce with (2) #5's at bottom in 8" CMU.
            i) 8" tall for openings 4'-0" or less.
            ii) 16" tall for openings 8'-0" or less.
         b. Load bearing reinforce with (2) #5's at bottom in 8" CMU. Not required for openings less than 8".
            i) 8" tall for openings 8" to 2'-0".
   D. Shop Drawings:
      1) Reinforcing steel in unit masonry showing plans, wall elevations and control joints typical. Provide a plan with wall elevation labels.

9. Structural Steel (Division 5):
   A. Design Code: Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings (AISC), latest adoption.
   B. Material strengths:
      1) Plates, ASTM A572 Grade 50 (Fy=50 ksi)
      2) Square HSS, ASTM A500 Grade C (Fy=50ksi)
      3) Anchor rods for column base plates, ASTM F1554 Grade 55 (Fy=55ksi)
      4) Welds E70XX (Fexx=70ksi) electrodes per AWS D1.1 – steel
      5) Hot-dip galvanized steel shall be fabricated in accordance with ASTM A385.
   C. Notes:
      1) All structural steel shall be fabricated and erected according to the specifications of The American Institute of Steel Construction (AISC), latest adoption.
      2) The structural steel fabricator shall be certified by AISC as a Category BU (Standard of Steel Building Structures) fabricator at the time of the bid. The installer is not required to be AISC qualified.
      3) Steel column base plate anchor rod holes and washer plates shall be as (reference AISC Steel Design Guide 1, Second Edition, Table 2.3.) Washer plates shall be welded to base plates with 1/4" fillet weld on three sides.
         a. 3/4"ϕ anchor rod, 1 5/16"ϕ hole, 2"x2"x1/4" washer
      4) Steel at or below grade in exterior walls and outside the main building perimeter (i.e. canopies, vestibules, etc.) shall be covered with two coats of ECOLINE-R (20 mil minimum coat thickness). The coating shall be applied to all steel below a reference line that is 2" above finished grade/paving unless noted otherwise. At locations where the structural steel is exposed (i.e. exposed steel columns), all steel below the 2" reference line shall be coated with a paint/coating suitable for below grade use. Tube columns outside the building envelope shall have a 1/4" diameter weep hole within 1" of the base plate and drained to the gravel subgrade with a drainage mat (3" wide minimum).
      5) All exterior steel as identified on the plans shall be G185 galvanized per ASTM A123.
      6) Structural steel shall be shipped with standard shop primer. See architectural specifications for primer and paint coating (if required).
      7) All structural steel shop and field welding shall be completed by an AWS certified welder.
      8) Field cutting of structural members (including holes) and member splices (field or shop splices) will not be permitted unless shown on the shop drawings and without written authorization of architect/engineer.
   D. Shop Drawings:
      1) Structural and miscellaneous steel including plan member layout, erection drawings showing connection assemblies. Member layout shall clearly show piece marks that are referenced and easily identifiable in the submittal. Multiple submittal shop drawings shall include an overall plan of the entire project showing member sizes and layout.

10. Wood Framing – Rough Carpentry, Wood Products, And Wood Trusses (Division 6):
    A. Design codes:
       1) National Design Specification for Wood Construction (NDS), latest adoption.
       2) Install rough carpentry work to comply with American Institute of Timber Construction (AITC), Timber Construction (TC) Manual, latest adoption and recommendations of the product manufacturer.
    B. Material strengths:
       1) All beams and columns shall be Douglas Fir-Larch, No. 1 Grade (graded under WWPA rules) or better.
       2) All wood structural panels shall be identified with the appropriate grade trademark of The American Plywood Association (APA), and shall meet the requirements of product standard PS-1. Unless noted plywood shall be C-DX exposure 1 with grade and thickness indicated on plans and notes.
       3) Fasteners:
          a. Nails, wire, brads, and staples: ASTM F547.
          b. All nails shall be common wire nails unless noted otherwise. Nails shall be driven so that heads are flush with wood surface. Over or under driven nails will not be acceptable. Nail sizes on drawings shall be as shown unless noted otherwise.
             i) 16d, 0.162" shank diameter, 3 1/2" length
             ii) 10d, 0.148" shank diameter, 3" length
             iii) 8d, 0.131" shank diameter, 2 1/2" length
             iv) 6d, 0.113" shank diameter, 2" length
          c. Alternate fastener size, number and pattern may be provided with power driven fasteners. Ref Engineering Services Report (ESR) 1539.
          d. Wood screws: ANSI B18.6.1.
          e. Lag bolts: ANSI B18.2.1.
          f. Bolts: ASTM A1554 Grade 36 or ASTM A307/A36.
    C. Wood Truss Members:
       1) Trusses shown on plans are for configuration only. Contractor shall submit shop drawings with Missouri professional engineers seal showing actual member stresses and joint plate sizes conforming to loading figures constructed by the truss supplier. Truss layout/plan drawings shall be submitted. These layout/plan drawings shall indicate snowdrift/unbalanced loads and other additional live loads. Sealed shop drawings shall be based on the loading criteria shown on the structural plans or sealed calculations shall be submitted for approval. The structural loading input parameters and loads (including snowdrift loads, unbalanced snow loads, concentrated live loads, etc.) shall be clearly stated on the sealed shop drawings for review.
       a. Wood truss design shall be completed by combined analysis per industry standards. Truss uplift connections shall be designed for MWFRS wind loading and individual truss members shall be designed for C&C wind loading.
       b. Long-Term/sustained dead loads (e.g. roof self-weight, RTU's, equipment, etc.): K= (time dependent deformation factor per NDS <section 3.5.2, 2015> and ANSI/TPI 1 shall be the following. This should be clearly stated on the truss shops drawings.
          i) 2.0 for seasoned lumber used in dry service conditions
          ii) 3.0 for trusses using green lumber or for wet service conditions
       2) Gable trusses shall be designed by the truss manufacturer for out of plane wall loading provided.
       3) Systems shall be designed for loadings previously described on this sheet.
       4) All wood truss to wood truss (or wood girder) connections shall be by wood truss supplier. Shop drawings shall be submitted for these connections typical.
       5) Temporary and permanent wood truss bracing/bridging location and size shall be designed and indicated by the truss manufacturer typical (BCSI 1, Guide to Good Practice for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses and WTCA, Commentary for Permanent Bracing of Metal Plate Connected Wood Trusses).
       6) Live load deflection design limits shall not be greater than the following.
          a. Roof trusses, vertical 1/360 times projected span.
       7) Provide 1/8" of camber for each 6'-0" of truss span unless noted otherwise.
       8) Provide 3/4" gap and Simpson HTC4 clips (or other accepted method) at non-load bearing CMU walls to wood truss connection at 48"o.c. max to allow for truss deflection typical. Attach finishes at these locations per truss manufacturer and WTCA (Wood Truss Council of America) recommendations.
       9) Truss connections shall be made so that the capacity of the member is not adversely effected typical.
    D. Notes:
       1) Truss uplift connections should be designed for applied wind loads using MWFRS analysis. Individual truss and rafter members shall be designed using components and cladding generated wind loads.
       2) Lay structural panels with face grain perpendicular to supporting members and stagger end joints 4'-0".
       3) Install panels continuously over two or more spans.
       4) Panel clips at 24"o.c. (or one per span min) shall be used for roof decking.
       5) Fasten panels to supports with 8d nails unless noted otherwise. Nail spacing shall be 6"o.c. at panel edges and 12"o.c. field (intermediate supports) unless noted otherwise.
       6) Do not hang any mechanical, electrical, etc. from roof deck unless noted otherwise.
       7) 1/8" space shall be allowed at all panel ends and edges per APA requirements typical.
       8) Roof sheathing designated 'FRT' shall be flame retardant treated (FRT) per American Wood Preservers Association Standard U1 to have a flame spread of 25 or less when subjected to a 30-minute test. All FRT sheathing locations shall be coordinated with architectural.
       9) Roof decking shall be 5/8" APA rated sheathing with a 32/16 span rating unless noted otherwise.
       10) All wood framing members referenced are nominal sizes, dressed S4S. Provide actual sizes, as required by PS20. Provide seasoned lumber S-Dry or KD with 19 percent maximum moisture content at time of dressing.
       11) All exterior metal connectors shall be Simpson Strong-Tie Z-Max coating (G185) or equivalent.
       12) Misc fastener connections shall be in accordance with the nailing schedule of the building code. Where rough carpentry is exposed to weather, in ground contact, or in areas of high relative humidity, provide hot-dip zinc-coated fasteners per ASTM A153 or AISI Type 304 stainless steel fasteners.
       13) All trusses shall be toe-nailed to top plates with (3) 16d common nails in addition to the connectors shown on the details unless noted otherwise.
       14) Fasteners, anchorage, and connectors in pressure treated wood shall be galvanized with a minimum of a G185 coating for preservative pressure treated wood. Alternate pressure treatments and connector protection shall be submitted to the engineer for approval.
       15) Ends of all stick built framing members shall be held in position by full depth blocking or by metal joist hangers unless noted.
    E. Shop Drawings and Deferred Submittals:
       1) Wood truss drawings including plan layout, truss elevations, and connection assemblies.

TYPICAL STRUCTURAL ABBREVIATIONS AND SYMBOLS

ACI	AMERICAN CONCRETE INSTITUTE	EXP	EXPANSION	PROJ	PROJECTION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXT	EXTERIOR	psf	POUNDS PER SQUARE FOOT
		FIN	FINISH	psi	POUNDS PER SQUARE INCH
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	FD	FLOOR DRAIN	R	RADIUS
		FLG	FLANGE	RD	ROOF DRAIN
AB	ANCHOR BOLT	FLR	FLOOR	RE	REFERENCE
ADJ	ADJACENT	FND	FOUNDATION	REINF	REINFORCEMENT
AFF	ABOVE FINISHED FLOOR	F.O.	FACE OF	REQD	REQUIRED
AHU	AIR HANDLING UNIT	FTG	FOOTING	REV	REVISION
ALT	ALTERNATE	GA	GAGE	RTU	ROOF TOP UNIT
L	ANGLE	GALV	GALVANIZED	RXN	REACTION
ARCH	ARCHITECT	GDR	GIRDER	SAH	STRONG AXIS HORIZONTAL
BFF	BELOW FINISHED FLOOR	GYP	GYPSUM	SCHED	SCHEDULE
BLDG	BUILDING	H.A.S.	HEADED ANCHOR STUD	SECT	SECTION
BLKG	BLOCKING	HK	HOOK	SHT	SHEET
BM	BEAM	HOR	HORIZONTAL	SIM	SIMILAR
BOC	BOTTOM OF CAISSON	INCL	INCLUDING	SJI	STEEL JOIST INSTITUTE
BOT	BOTTOM	INSUL	INSULATION	SPA	SPACING
BRG	BEARING	INT	INTERIOR	SPECS	SPECIFICATIONS
BTWN	BETWEEN	JST	JOIST	STD	STANDARD
C	COMPRESSION	JT	JOINT	STIFF	STIFFENER
CL	CENTER LINE	K	KIP = 1000 LBS	STL	STEEL
CJ	CONTROL/CONST JOINT	K-FT	KIP-FEET (Moment)	SQ	SQUARE
CLR	CLEAR	LOC	LOCATION	SYM	SYMMETRICAL
COL	COLUMN	LLH	LONG LEG HORIZONTAL	T	TENSION
CONC	CONCRETE	LLV	LONG LEG VERTICAL	T&B	TOP AND BOTTOM
CONN	CONNECTION	MAX	MAXIMUM	THK	THICK OR THICKNESS
CONT	CONTINUOUS	MECH	MECHANICAL	T.O.	TOP OF
DBA	DEFORMED BAR ANCHOR	MIN	MINIMUM	TOBL	TOP OF BRICK LEDGE
DIA or ϕ	DIAMETER	MISC	MISCELLANEOUS	TOC	TOP OF CONCRETE
DIM	DIMENSION	MFR	MANUFACTURER	TOF	TOP OF FOOTING
DET	DETAIL	MO	MASONRY OPENING	TOM	TOP OF MASONRY
DN	DOWN	MTL	METAL	TOS/TOB	TOP OF STEEL/BEAM
DWG	DRAWING	#	NUMBER OR POUND	TOW	TOP OF WALL
DWL	DOWEL	NIC	NOT IN CONTRACT	TRS	TRUSS
EA	EACH	NTS	NOT TO SCALE	TYP	TYPICAL
EE	EXTENDED ENDS	o.c.	ON CENTER	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	OPNG	OPENING	VERT	VERTICAL
EL	ELEVATION	OPP	OPPOSITE HAND	VIF	VERIFY IN FIELD
EMBED	EMBEDMENT LENGTH	PEMB	PRE-ENGINEERED METAL BUILDING	W/	WITH
EQ	EQUAL/EQUIVALENT	P.C.	PRECAST CONCRETE	WP	WORKING POINT
EW	EACH WAY	PL	PLATE	WWF	WELDED WIRE FABRIC
EXIST	EXISTING	plf	POUNDS PER FOOT		

DET NUMBER (TOP)
SHT NUMBER (BOT)
COL GRID LINE
CONC GRADE BM/WALL
COL/FTG/PED
KEYED NOTE
SPOT EL
EL MK
PLAN NORTH OR REFERENCE NORTH

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
DAVID TORRES
ENGINEER
NUMBER
PE-2024008029
PROFESSIONAL ENGINEER
09/19/2025
DAVID TORRES - ENGINEER
MO # 2024008029

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

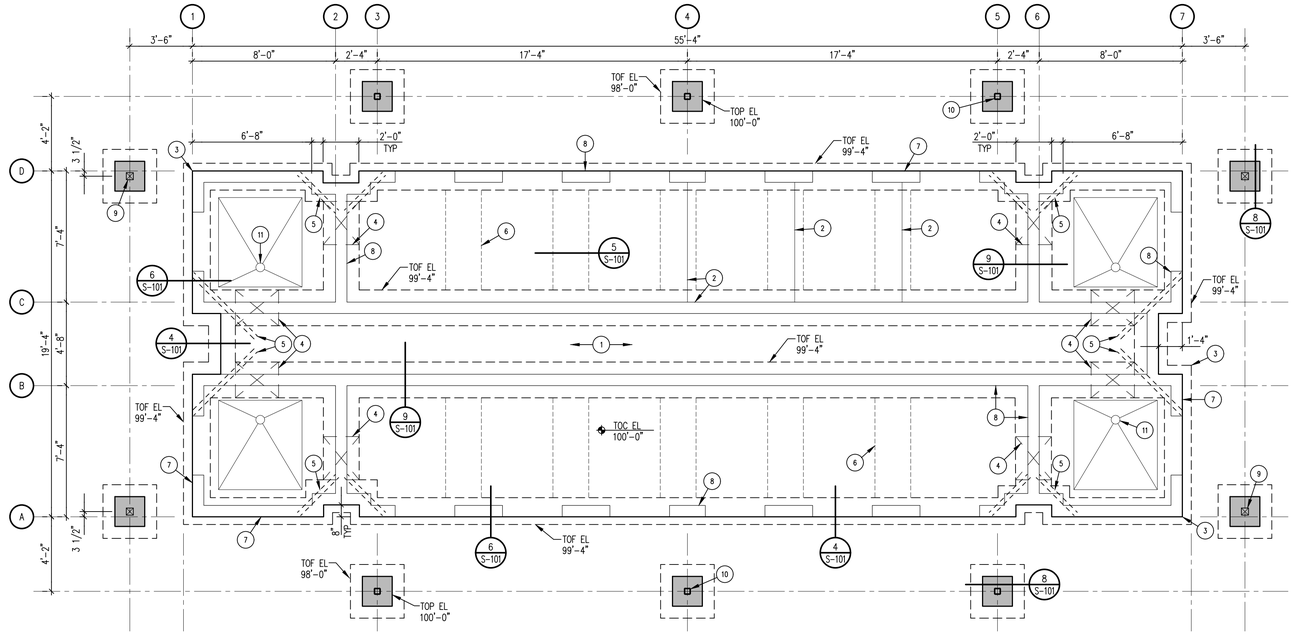
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DATE: 09/19/2025
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DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: State Fair-S-S001.dwg
DRAWN BY: DTA
CHECKED BY: BRK
DESIGNED BY: DTA

SHEET TITLE:
STRUCTURAL DESIGN CRITERIA AND NOTES

SHEET NUMBER:
S-001

39 OF 59
09/19/2025

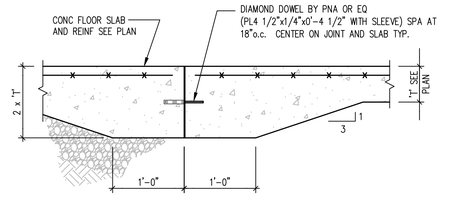


N

REF. 1 S-101

FOUNDATION PLAN

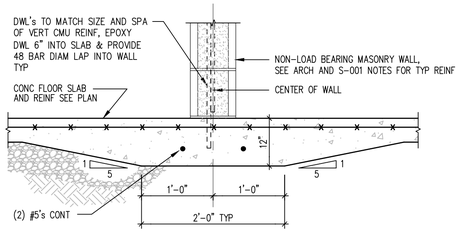
1/4" = 1'-0"



TYP CONSTRUCTION JOINT

2 S-101

1" = 1'-0"

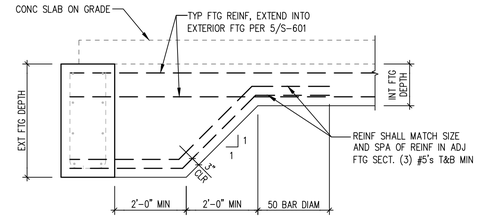


TYP NON-BRG CMU THK SLAB

5 S-101

1" = 1'-0"

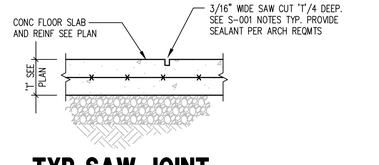
NOTE: SLAB THICKNESS MAY BE DECREASED TO 8" WHERE SLAB BEARS ON CONC FDN



TYP STEPPED FTG SECTION

7 S-101

1/2" = 1'-0"

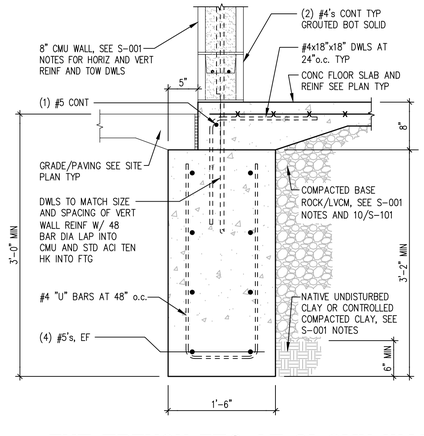


TYP SAW JOINT

3 S-101

1" = 1'-0"

NOTE: JOINTS MAY BE MOVED CLOSER THAN REQ'D IF DESIRED BY OWNER OR G.C. TO MINIMIZE CRACKING.

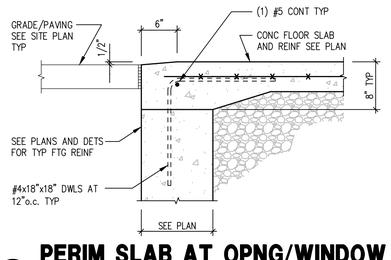


EXT TRENCH FTG AT 8" CMU WALL

6 S-101

1" = 1'-0"

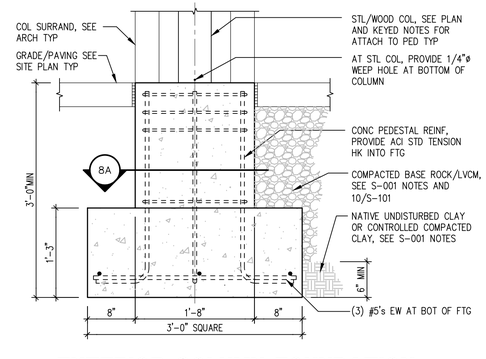
NOTE: CENTER CMU WALL ON TRENCH FTG UNO



PERIM SLAB AT OPNG/WINDOW

4 S-101

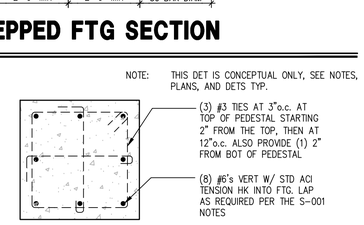
1" = 1'-0"



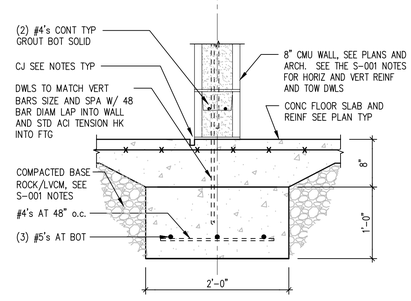
EXTERIOR COLUMN FOUNDATION

8 S-101

1" = 1'-0"



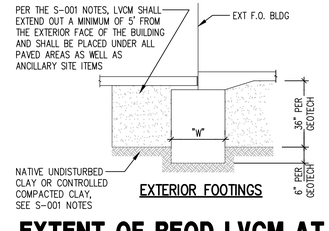
SECTION 8A: 20"x20" PEDESTAL



INTERIOR FTG AT 8" CMU

9 S-101

1" = 1'-0"



EXTERIOR FOOTINGS

EXTENT OF REQD LVCM AT FTGS

10 S-101

NO SCALE

FOUNDATION GENERAL NOTES

1. NOTES AND KEYNOTES ON THIS SHT APPLY TO ALL FOUNDATION ELEMENTS OF STRUCTURE (S-10x SHEETS) TYP
2. SEE SHEET S-001 FOR DESIGN LOAD INFORMATION, GENERAL NOTES, AND SOIL ALLOWABLE BEARING CAPACITIES
3. SEE S001 NOTES, DET 10/S-101, AND GEOTECHNICAL REPORT FOR REQUIRED LOW VOLUME CHANGE (LVC) FILL UNDER THE SLAB-ON-GRADE
4. SLAB-ON-GRADE CONSTRUCTION JOINT AND SAW JOINT SEE DET 2/S-101 AND 3/S-101 RESPECTIVELY. SEE NOTES ON S-001 FOR TYP LOCATION OF CONTROL JOINTS IN SLABS-ON-GRADE UNLESS SHOWN OTHERWISE ON PLANS
5. COORDINATE LOCATION OF CONSTRUCTION JOINTS WITH ENGINEER/ARCH BEFORE PLACING CONCRETE
6. PAVING, WALKWAY, AND SITE RETAINING WALL LOCATIONS/DETAILS SEE SITE PLAN TYPICAL
7. THE FOLLOWING SLAB-ON-GRADE ITEMS SHALL BE COORDINATED WITH THE ARCH PLANS. ALL COORD ITEMS ARE NOT SHOWN ON THE PLANS. THESE ITEMS ARE SHOWN FOR THE CONVENIENCE OF THE GC
   a. LOCATION OF THICKENED SLABS FOR NON-LOAD BEARING WALLS. CENTER THICKENED SLABS ON NON-STRUCTURAL WALLS TYP UNO
   b. SLOPED SLABS TO DRAINS AND PLUMBING/MEP ITEMS
8. ALL DIMENSIONS SHOWN ON FOUNDATION PLANS SHOULD BE COORDINATED WITH THE ARCHITECTURAL PLANS TO ENSURE CORRECT PLACEMENT OF STRUCTURAL ITEMS (INCLUDING COLUMNS, FOOTINGS, THICKENED SLABS, WALLS, ETC)
9. UNLESS NOTED, DIMENSIONS ARE TO THE OUTSIDE OF WALLS
10. SLOPE SLAB-ON-GRADE 1/2" IN OUTER 6" AT DOOR AND WINDOW SILL LOC OF BLDG, SEE 4/S-101
11. CONCRETE WALL AND FOOTING CORNER REINFORCEMENT, SEE NOTES ON S-001 AND DET 5/S-601
12. GIVE TOP OF FOUNDATION A TROWEL FINISH. THE FOUNDATION MUST BE SQUARE, LEVEL, AND SMOOTH
13. CENTER CONC FOOTINGS AND PEDESTALS ON COLUMNS. PLACE CONC FOOTINGS CENTERED UNDER LOAD BEARING CMU WALLS TYP UNO
17. UTILITY ITEMS (PIPING, CONDUITS, ETC) SHALL BE LOCATED IN THE MIDDLE THIRD OF TRENCH FTG OR UNDER FTG, COORD WITH MEP. PROVIDE PVC SLEEVE AS REQD. SLEEVE DIAMETER SHALL BE TWO PIPE SIZES LARGER THAN THE PENETRATING PIPE MIN PER IPC CODE
18. PROVIDE A 3'-0" LVC ZONE BENEATH SLAB-ON-GRADE AND BARE EXTERIOR FTG 12" MIN INTO NATIVE SOIL, SEE S-001 AND DET 10/S-101

(xx) FOUNDATION KEYED NOTES

1. 4" CONC SLAB-ON-GRADE W/ #4's AT 24"o.c. EW CTR UNO. SEE S-001 NOTES FOR REINF, CRUSHED STONE BASE AND VAPOR BARRIER TYP
2. SLAB-ON-GRADE CONST JT/SAW JT, SEE GENERAL NOTES ON THIS SHT, S-001 NOTES AND DETS
3. SUPPLY CORNER BARS AT CORNERS AND INTERSECTIONS OF ALL TRENCH FOOTINGS, ETC. SEE NOTES ON S-001 AND DET 5/S-601 TYP
4. EXTEND BOT OF INTERIOR FTG TO BOT OF ADJACENT EXTERIOR FTG, SEE DET 7/S-101
5. (2) #5x5'-0" LG DIAG BARS AT SLAB REENTRANT TYP, SEE S-001 NOTES
6. THICKENED SLAB AT NON-LOAD BEARING WALLS, SEE 5/S-101 TYP
7. OUTSIDE F.O. CMU WALL/SLAB SEE DETS AND ARCH
8. 8" CMU WALL, SEE S-001 NOTES, SCHED AND DETS FOR REINF TYP
9. 6x6 WOOD COLUMN AT EAST AND WEST SIDES, PROVIDE MPB66Z POST BASE BY SIMPSON STRONG-TIE OR EQ (4 TOTAL)
10. HSS4x4x1/4 STL COL AT NORTH AND SOUTH SIDES, SEE 11/S-601 FOR TYPICAL BASE PLATE AND ANCHOR DETS (6 TOTAL)
11. FLOOR/TRENCH DRAIN TYP, SEE ARCH AND MEP PLANS FOR LOCATIONS AND SLAB SLOPE CONFIGURATIONS IF REQUIRED. LOCATION AND CONFIGURATION MAY NOT BE SHOWN ON FOUNDATION PLANS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
DAVID TORRES
ENGINEER
NUMBER
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PROFESSIONAL ENGINEER

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DAVID TORRES - ENGINEER
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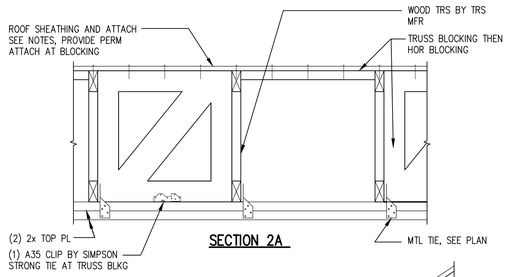
PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

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DATE: 09/19/2025
REVISION:
DATE:
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DATE:
ISSUE DATE: 09/19/2025

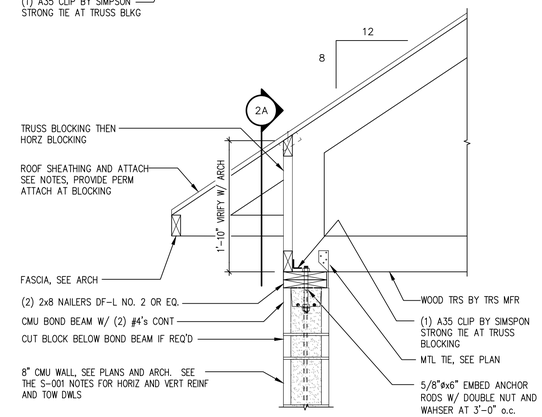
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CHECKED BY: BRK
DESIGNED BY: DTA

SHEET TITLE:
FOUNDATION PLAN AND DETAILS

SHEET NUMBER:
S-101



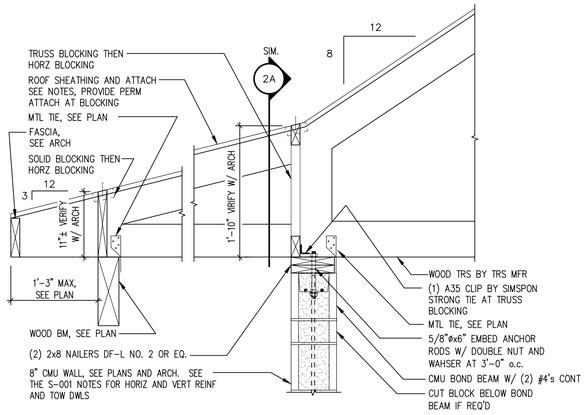
SECTION 2A



WOOD TRUSS BRG AT CMU

2 / S-151

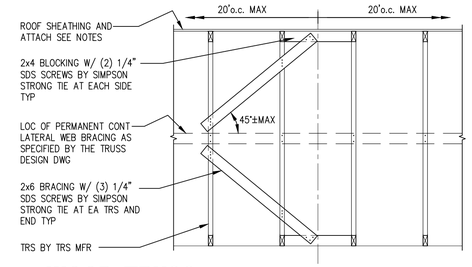
1" = 1'-0"



WOOD TRUSS BRG AT CMU W/ CHANGE IN ROOF SLOPE AT CANOPY

3 / S-151

1" = 1'-0"

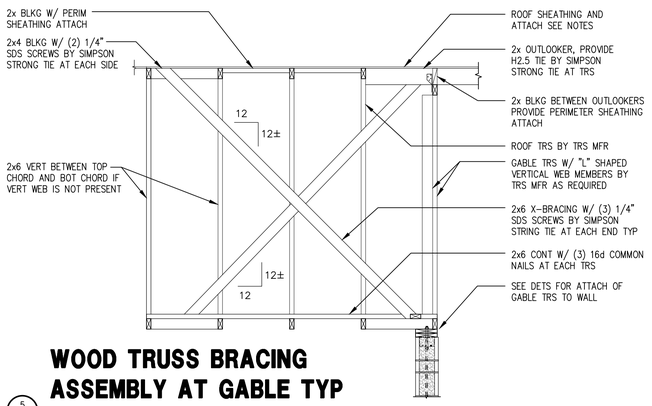


WOOD TRUSS PERMANENT BRACING ASSEMBLY

4 / S-151

1/2" = 1'-0"

NOTE: SPACE BRACING ASSEMBLY AT MID SPAN OF TRS's AND LINES OF WEB BRACING SPECIFIED BY TRUSS DESIGN DWGS, TYP.

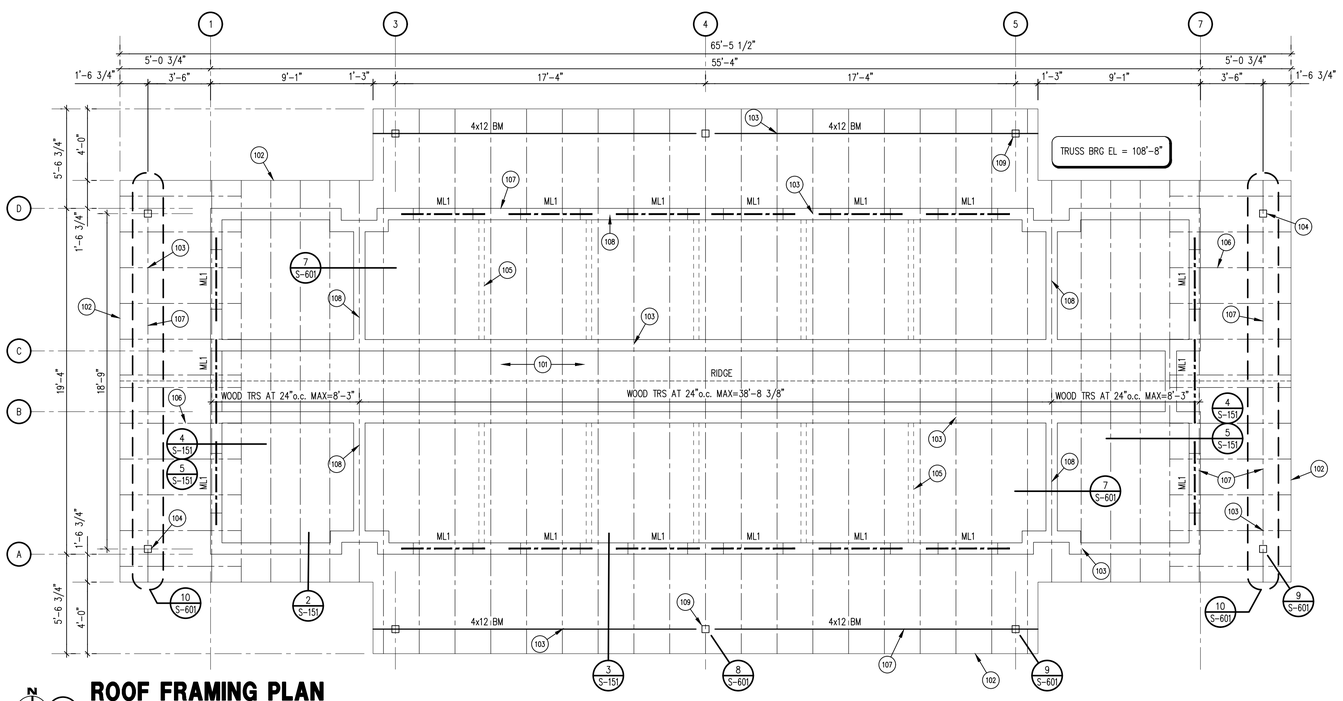


WOOD TRUSS BRACING ASSEMBLY AT GABLE TYP

5 / S-151

1/2" = 1'-0"

NOTE: SPACE BRACING ASSEMBLY AT MID SPAN OF TRS's AND 6'-0" o.c. MAX



ROOF FRAMING PLAN

REF. 1 / S-151

1/4" = 1'-0"

FRAMING GENERAL NOTES

1. THESE NOTES AND KEYNOTES ON THIS SHEET APPLY TO ALL FRAMING ELEMENTS OF STRUCTURE (S-15x SHEET) TYP
2. SEE SHEET S-001 FOR DESIGN LOADS AND GENERAL NOTES
3. SEE FOUNDATION PLAN AND ARCHITECTURAL PLANS TO ENSURE CORRECT PLACEMENT OF STRUCTURAL ITEMS (INCLUDING COLUMNS, FOOTINGS, THICKENED SLABS, BEARING WALLS, ETC.)
4. G.C. SHALL LAY OUT ROOF TRUSSES WITH SPACING NOT TO EXCEED SPACING INDICATED ON THESE PLANS
5. CMU WALL REINF AT CORNER AND INTERSECTION, SEE S-001 NOTES AND DET 3/S-601
6. NON-BEARING CMU WALL BRACING TO STRUCT FRAMING, SEE 6/S-601 TYP
7. "ML-" DENOTES CMU LINTEL/HEADER MARK, SEE 1/S-601 FOR SCHED TYP. NON-LOAD BEARING, AND MISC MASONRY LINTELS, SEE NOTES ON SHT S-001
8. WOOD TRUSS NET UPLIFT, SEE S-001 NOTES TYP
9. WOOD TRUSS PERMANENT BRACING, SEE 4/S-151
10. SEE DET 5/S-151 FOR WOOD TRS BRACING AT GABLE TYP
11. SEE ARCH SECTIONS FOR WOOD TRUSS ELEVATIONS TYP

(1xx) FRAMING KEYED NOTES

101. ROOF DECK SHALL BE 5/8" APA PLYWOOD OVER WOOD TRS AT 24"o.c. MAX, SEE S-001 NOTES FOR ATTACHMENT
102. OUTSIDE F.O. FASCIA
103. H2.5 CLIP BY SIMPSON STRONG-TIE OR EQ AT TRUSS BRG LOC TYP
104. 6x6 WOOD COL AT EAST AND WEST SIDES, SEE 8/S-601 FOR BM TO COL CONN (4 TOTAL)
105. NON-BRG CMU WALL BELOW, SEE 6/S-601 FOR TOP OF WALL BRACING TYP
106. 2x6 OUTLOOKERS AT 2'-0"o.c. MAX TYP
107. 2x OR TRS BLOCKING BTWN TRUSSES/OUTLOOKERS FOR PERIM ROOF SHEATHING ATTACH, SEE S001 NOTES FOR SHEATHING AND ATTACH TYP
108. PROVIDE TRUSS AT OUTSIDE FACE OF CMU WALL, SEE DET 7/S-601. TRUSS MFR SHALL DESIGN TRUSS FOR A 4,100 lb DRAG FORCE (T/C) FROM WIND AND SEISMIC LOADS AS WELL AS GRAVITY LOADS
109. HSS4x4x1/4 STL COL AT NORTH AND SOUTH SIDES, SEE 8/S-601 FOR BM TO COL CONN (6 TOTAL)

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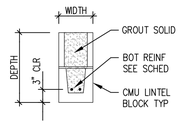
SHEET TITLE:
FRAMING PLAN AND DETAILS

SHEET NUMBER:
S-151

1/S-601 LOAD BEARING MASONRY LINTEL SCHEDULE

MARK	MAX CLR OPENING*	NOM WALL WIDTH	MASONRY LINTEL		LINTEL TYPE	REMARKS
			NOM DEPTH	BOT BARS		
ML1	4'-0"	8"	16"	(2) #5's	TYPE I-A	

NOTES:
1. MASONRY CONTROL JOINTS SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO JAMB TYPICALLY.
2. MASONRY LINTELS SHALL BEAR ON ADJACENT SUPPORTS 7 5/8" MINIMUM.
3. MASONRY LINTEL REINFORCEMENT SHALL EXTEND PAST CLEAR OPENING 24" MINIMUM.
4. SEE DET 2/S-601 MASONRY LINTEL TYPES.
5. CMU LINTELS REQUIRE MIN JAMB REINF AS FOLLOWS, (1) #5's VERT BARS IN 8" CMU IN (2) FULLY GROUTED CORES FOR ENTIRE HEIGHT OF WALL AND EMBEDED INTO FOUNDATION. ALSO, SEE NOTES ON 1/S-001 FOR TYP JAMB REINF.
6. SEE 4/S-601 FOR TYP CMU WALL REINF AT LINTELS.

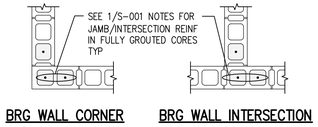


TYPE I-A

2/S-601 MASONRY LINTEL TYPES

3/4" = 1'-0"

NOTES: SEE SCHED FOR REINF, ETC.

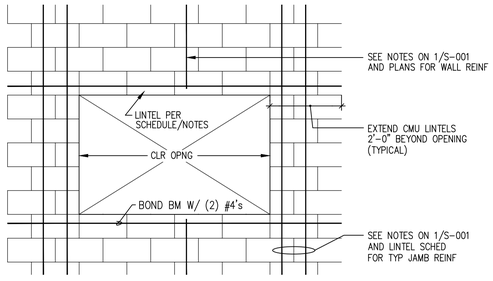


BRG WALL CORNER BRG WALL INTERSECTION

3/S-601 CMU WALL VERT REINF

1/2"=1'-0"

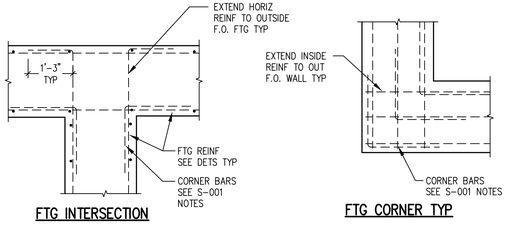
NOTE: SEE S-001 NOTES FOR TYP CMU REINF UNO.



4/S-601 CMU WALL OPENING WITH CMU LINTEL

NO SCALE

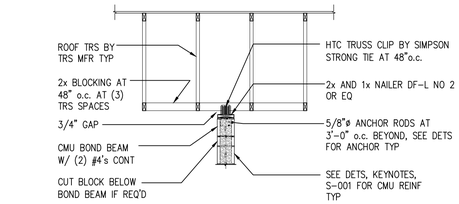
SEE NOTES 1/S-001 FOR RUNNING OR STACK BOND, THIS DET IS CONCEPTUAL ONLY.



FTG INTERSECTION FTG CORNER TYP

5/S-601 CONC PEDESTAL/WALL REINF

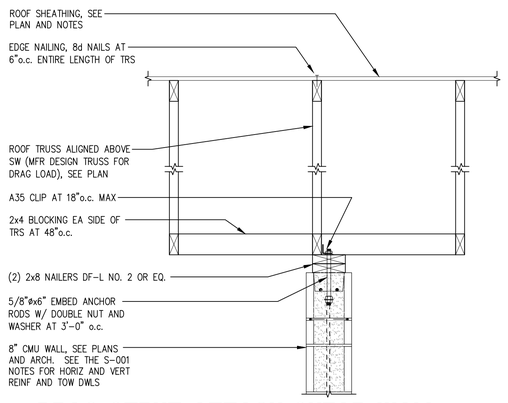
1/2"=1'-0"



WALL PARALLEL TO TRUSS

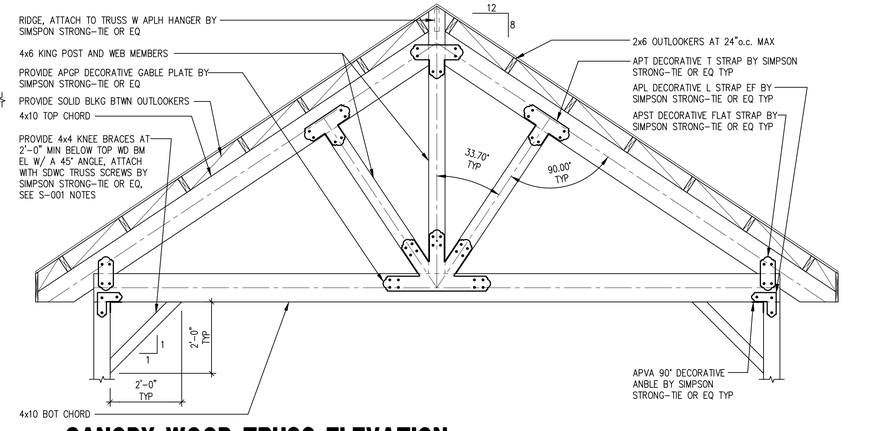
6/S-601 TYP NON-STRUCTURAL CMU WALL BRACING AT ROOF TRUSS

3/8" = 1'-0"



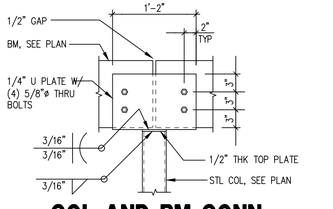
7/S-601 DRAG STRUT ATTACH SHEAR WALL

1" = 1'-0"



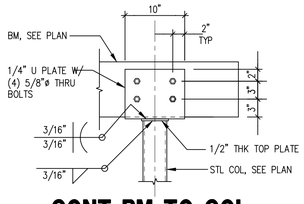
10/S-601 CANOPY WOOD TRUSS ELEVATION

1/2"=1'-0"



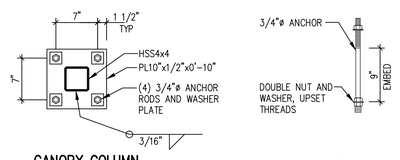
8/S-601 COL AND BM CONN AT SPLICE

1" = 1'-0" NOTE: ROOF FRAMING NOT SHOWN FOR CLARITY. SEE DETS FOR FRAMING AND ATTACH



9/S-601 CONT BM TO COL CONN AT ENDS

1" = 1'-0" NOTE: ROOF FRAMING NOT SHOWN FOR CLARITY. SEE DETS FOR FRAMING AND ATTACH



CANOPY COLUMN 3/4"ø ANCHOR

11/S-601 TYPICAL BASE PLATE AND ANCHOR

1"=1'-0" NOTE: BASE PLATES SHOWN REPRESENT TYPICAL CONFIGURATION. BASE PLATES NOT DEPICTED SHALL BE SIMILAR. SEE S-001 NOTES FOR WASHER PLATE CONFIG AND ATTACH TO BASE PLATE TYP.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
DAVID TORRES
REGISTERED NUMBER
PE-2024008029
PROFESSIONAL ENGINEER

09/19/2025
DAVID TORRES - ENGINEER
MO # 2024008029

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OFFICE OF ADMINISTRATION
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DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/19/2025
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CAD DWG FILE: State Fair-S-S601.dwg
DRAWN BY: DTA
CHECKED BY: BRK
DESIGNED BY: DTA

SHEET TITLE:
STRUCTURAL DETAILS AND SCHEDULES

SHEET NUMBER:
S-601

MECHANICAL SYMBOL SCHEDULE

WST	WASTE PIPING	
V	VENT PIPING	
VW	VENT PIPING OVER WASTE PIPING	
CW	COLD WATER PIPING	
HW	HOT WATER PIPING	
G	GAS PIPING	
	PIPE FITTINGS (ELL DOWN – TEE DOWN – TEE UP)	
	VALVE	– CHECK VALVE
	UNION	– STRAINER
	GAS COCK	– BALANCING COCK
A200 12x12	AIR TERMINAL TAG. "A" INDICATES MARK ON GRILLE AND REGISTER SCHEDULE.	
	"200" INDICATES AIR VOLUME IN CFM. "12x12" INDICATES FACE SIZE.	
	AIR TERMINALS (REGISTER – GRILLE)	
	FIRE DAMPER	
	SMOKE DAMPER	
	MANUAL DAMPER	
	MOTORIZED DAMPER	
T1 H1	THERMOSTAT – HUMIDISTAT (ZONE SUBSCRIPT)	
WST V	WASTE	– VENT
CO VTR	CLEAN OUT	– VENT THROUGH ROOF
SA RA	SUPPLY AIR	– RETURN AIR
FA EA	FRESH AIR	– EXHAUST AIR
N/E E/R	NEW CONNECTS TO EXISTING	– EXISTING TO REMAIN
	PENDANT MOUNTED SPRINKLER HEAD	
	UPRIGHT MOUNTED SPRINKLER HEAD	
	PENDANT HEAD BELOW / UPRIGHT HEAD ABOVE	
	SIDEWALL SPRINKLER HEAD	
	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD	

ELECTRICAL SYMBOL SCHEDULE

P2-22,24	HOME RUN CIRCUIT TO PANEL P2, CIRCUITS 22,24
	EACH ARROW INDICATES ONE CIRCUIT
	SHORT HATCH MARKS INDICATE # OF PHASE CONDUCTORS
	LONG HATCH MARKS INDICATE # OF NEUTRAL CONDUCTORS
	NO HATCH MARK INDICATES TWO CONDUCTORS
E	ELECTRICAL SERVICE OR FEEDER WIRING
	WIRING IN WALL OR CEILING – WIRING IN FLOOR
	RECEPTACLE OUTLET (DUPLEX – QUADRUPLEX – SPECIAL POWER)
	COMMUNICATIONS OUTLET (TELEPHONE – CATV – DATA/PHONE)
3 D 4 P S K T OS	WALL SWITCH (3–WAY – DIMMER – 4–WAY – PILOT – SPEED – KEYED – TIMER – OCCUPANCY)
	LED STYLE LIGHT FIXTURE (CEILING MOUNTED – WALL MOUNTED)
OS S	LED STYLE LIGHT FIXTURE (ENCLOSED – STRIP) (S INDICATES SPLIT WIRED)
	EXIT LIGHT – EMERGENCY LIGHT – EMERGENCY/EXIT LIGHT
C	OTHER RECEPTACLE OUTLET (CLOCK – FLOOR – SPLIT WIRED)
	ELECTRIC PANEL
S T	SPEAKER – PUSH TO TALK
J P	JUNCTION BOX – PULL BOX
F D	DISCONNECT (FUSED – NONFUSED)
S C	STARTER – CONTACTOR
5–208–3	ELECTRIC MOTOR (5 HP – 208V – 3 PHASE)
T1 H1	THERMOSTAT – HUMIDISTAT (ZONE SUBSCRIPT)
42 G W U	OUTLET MODIFIERS (MOUNT HEIGHT INCHES – GFI PROTECTED – WEATHER PROOF GFI – USB)
S H D F	SMOKE DETECTOR – HEAT DETECTOR – DUCT DETECTOR – MANUAL PULL STATION
AV V	AUDIO VISUAL – VISUAL
M R	MAGNETIC DOOR HOLDER – INTERLOCK RELAY
	END OF LINE RESISTOR
FACP	FIRE ALARM CONTROL PANEL
DIAL	DIALER

PLUMBING FIXTURE SCHEDULE

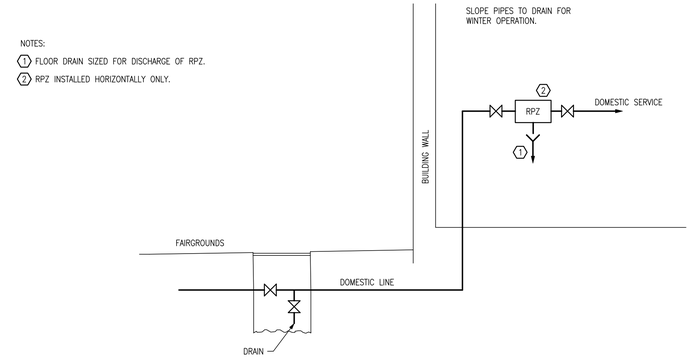
MARK	QTY	FIXTURE	MODEL NUMBER
WC1	–	WATER CLOSET	WILLOUGHBY ETWS–1490–CM–BS–1.6 GPF ULF–GWC–FV–FVT, 17 1/2" HEIGHT, ELONGATED BOWL,
			CONCEALED CHAIR CARRIER, MOUNT PER ADA.
L1	–	LAVATORY	WILLOUGHBY HS–1014–96–HC–DMS–PML2–PPB–4CC–EB–LWE–WS, MOEN 8938 FAUCET,
			P–TRAP, SPEEDWAY CR1920A SUPPLIES AND STOPS. CONCEALED CHAIR CARRIER, MOUNT PER ADA.
SHR	–	SHOWER	SEE ARCHITECTURAL FOR SHOWER ENCLOSURE, SEAT, AND GRAB BARS
			WILLOUGHBY CWCWS–1–PML1–PBH–2.5 GPM–FX–TMV–HCA, 3–1/4" DRAIN.
EWC	–	ELEC WATER COOLER	ELKAY VRCBWSK COOLER, W/ BOTTLE FILLERS. MOUNT PER ADA
FD	–	FLOOR DRAIN	JOSAM 30003–6A, NICKALOY TOP, WITH P–TRAP AND TRAP SEAL.
HB	–	HOSE BIB	WOODFORD MODEL 67P SERIES POLISHED CHROME WALL FAUCET, VACUUM BREAKER.
			WITH B67 LOCKABLE POLISHED CHROME WALL BOX
WH1	–	WATER HEATER	A.O. SMITH GOLD SERIES DRE–120, 119 GALLON ELECTRIC, 54KW INPUT. (62.25"x 35")
HWRP	–	HW RETURN PUMP	TACO MODEL 006 CARTRIDGE CIRCULATOR PUMP, 1/40 HP, 0.52A, 120V, 1ø
RPZ	–	RPZ BACKFLOW PREV	WATTS LF909QT SERIES – REDUCED PRESSURE ZONE ASSEMBLY
MV	–	MIXING VALVE	CALEFFI 523177A, 1–1/4", 195°F TO 104°F, MIXING VALVE
ET	–	EXPANSION TANK	AMTROL ST–30V

SINGLE CAMPSITE WIRE SIZE CHART

WIRE SIZE	MINIMUM LENGTH OF CIRCUIT	MAXIMUM LENGTH OF CIRCUIT
3 #2	–	155'
3 #1	155'	195'
3 #1/0	195'	250'
3 #2/0	250'	315'
3 #3/0	315'	400'
3 #4/0	400'	500'
3 #250MCM	500'	595'
3 #300MCM	595'	>595'

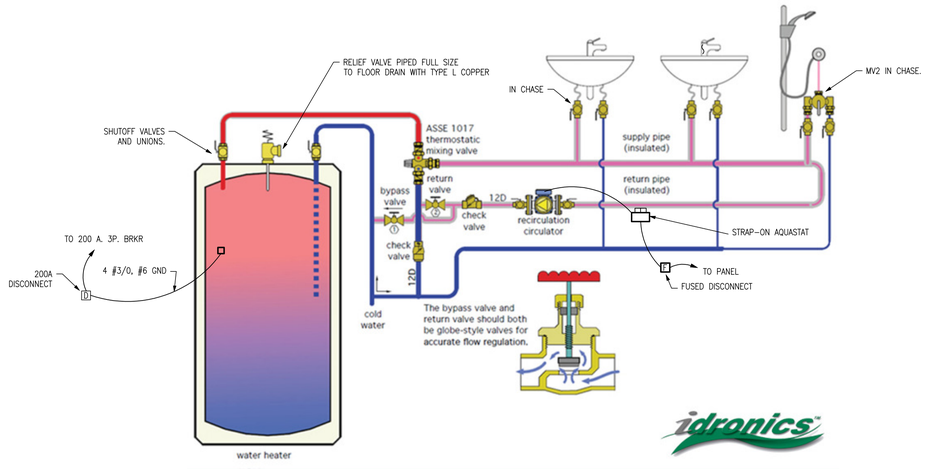
DOUBLE CAMPSITE WIRE SIZE CHART

WIRE SIZE	MINIMUM LENGTH OF CIRCUIT	MAXIMUM LENGTH OF CIRCUIT
3 #2/0	–	155'
3 #3/0	155'	200'
3 #4/0	200'	250'
3 #250MCM	250'	295'
3 #300MCM	295'	355'
3 #350MCM	355'	415'
3 #400MCM	415'	475'
3 #500MCM	475'	595'
3 #600MCM	595'	>595'



1 ME1 BACKFLOW ASSEMBLY

NO SCALE



2 ME1 ELECTRIC WATER HEATER PIPING

NO SCALE

STATE OF MISSOURI
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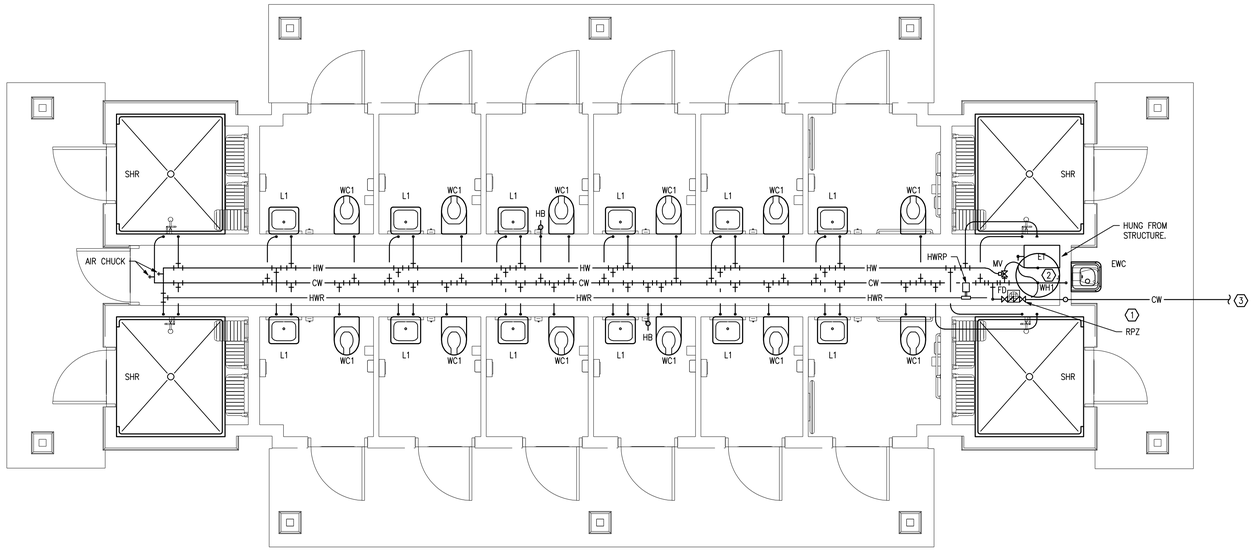
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DESIGNED BY: FM

SHEET TITLE:
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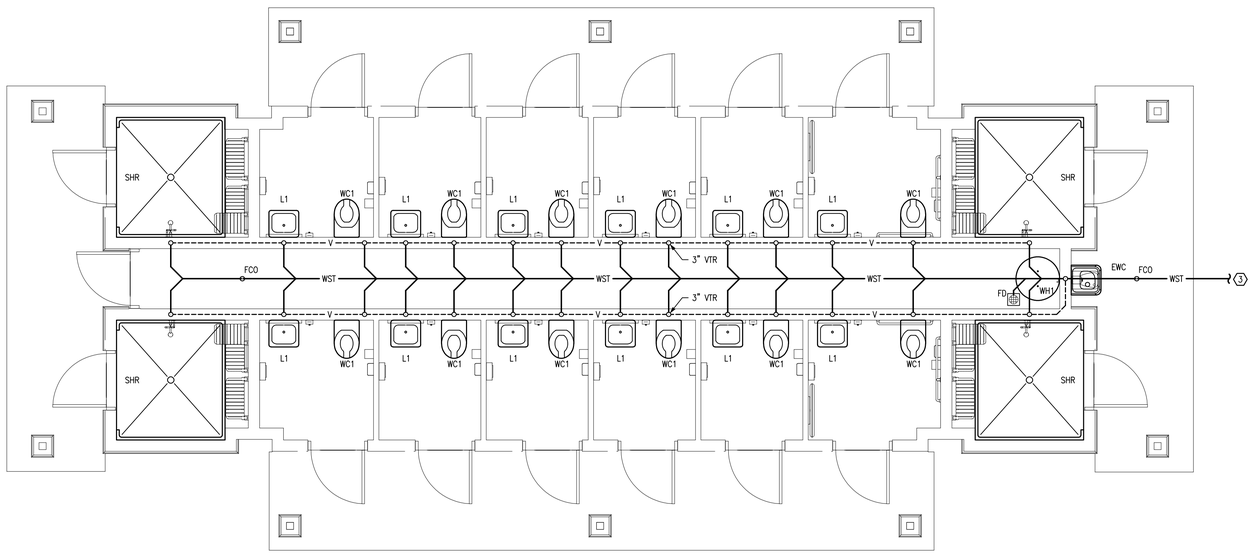
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1 P1 **COMFORT STATION SUPPLY PIPING PLAN**

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



1 P1 **COMFORT STATION WASTE PIPING PLAN**

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

GENERAL NOTES:

1. VERIFY PLUMBING, HVAC, POWER, AND LIGHTING REQUIREMENTS FOR OWNER'S SPECIFIC EQUIPMENT PRIOR TO ROUGH-IN.
2. COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL MAINTAIN FIRE RATING OF ANY PENETRATION AND SHALL SEAL ANY PENETRATION IN A FLOOR, CEILING, OR EXTERIOR WALL.
4. VERIFY RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
5. PLUMBING SUPPLY RISER SHOWN FOR CLARITY, THE PIPING SYSTEM SHALL BE ROUTED ENTIRELY WITHIN THE CONDITIONED SPACES, WITHIN INTERIOR CONDITION WALLS WERE ABLE. WHERE ROUTED BELOW SLAB, SLEEVED IN SCH 40 PVC.
6. SLOPE SUPPLY PLUMBING PIPES TO DRAIN FORM WINTER OPERATION.

KEYED NOTES:

1. 3" WATER LINE AND 3" LEAD FREE BACKFLOW DEVICE.
2. PIPE WATER HEATER RELIEF AND DRAIN TO MOP SINK OR NEAREST FLOOR DRAIN.
3. SEE CIVIL FOR CONTINUATION.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

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04-14-25

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

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2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
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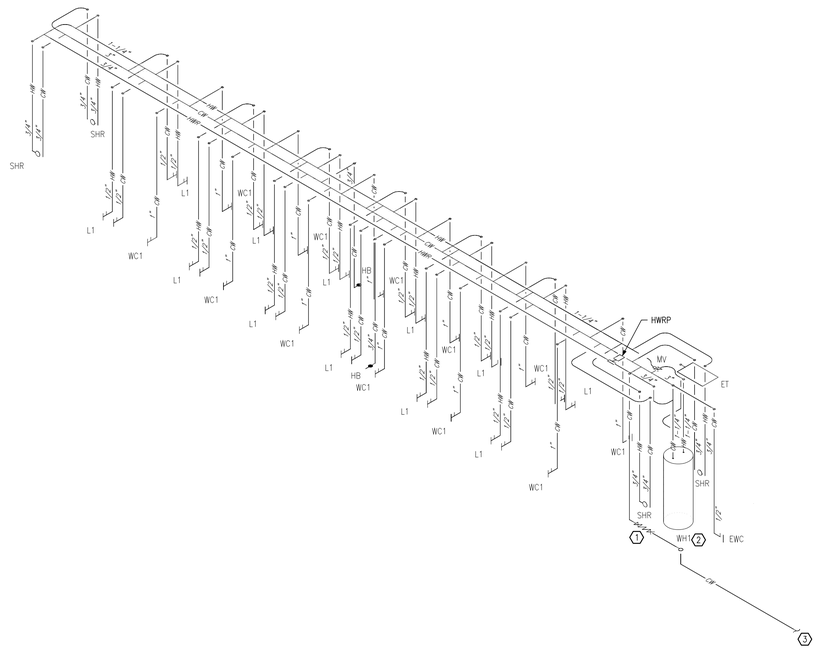
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COMFORT STATION PLUMBING PLANS

SHEET NUMBER:

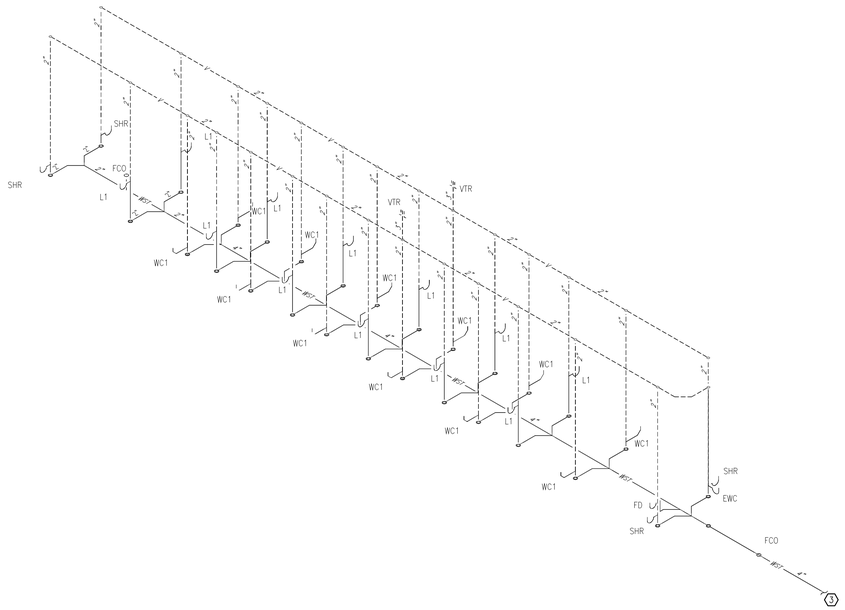
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1 P2 **COMFORT STATION SUPPLY RISER DIAGRAM**

SCALE: NO SCALE



2 P2 **COMFORT STATION WASTE RISER DIAGRAM**

SCALE: NO SCALE

GENERAL NOTES:

1. VERIFY PLUMBING, HVAC, POWER, AND LIGHTING REQUIREMENTS FOR OWNER'S SPECIFIC EQUIPMENT PRIOR TO ROUGH-IN.
2. COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL MAINTAIN FIRE RATING OF ANY PENETRATION AND SHALL SEAL ANY PENETRATION IN A FLOOR, CEILING, OR EXTERIOR WALL.
4. VERIFY RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
5. PLUMBING SUPPLY RISER SHOWN FOR CLARITY, THE PIPING SYSTEM SHALL BE ROUTED ENTIRELY WITHIN THE CONDITIONED SPACES, WITHIN INTERIOR CONDITION WALLS WERE ABLE. WHERE ROUTED BELOW SLAB, SLEEVED IN SCH 40 PVC.
6. SLOPE SUPPLY PLUMBING PIPES TO DRAIN FORM WINTER OPERATION.

KEYED NOTES:

1. 3" WATER LINE AND 3" LEAD FREE BACKFLOW DEVICE.
2. PIPE WATER HEATER RELIEF AND DRAIN TO MOP SINK OR NEAREST FLOOR DRAIN.
3. SEE CIVIL FOR CONTINUATION.

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09-04-25

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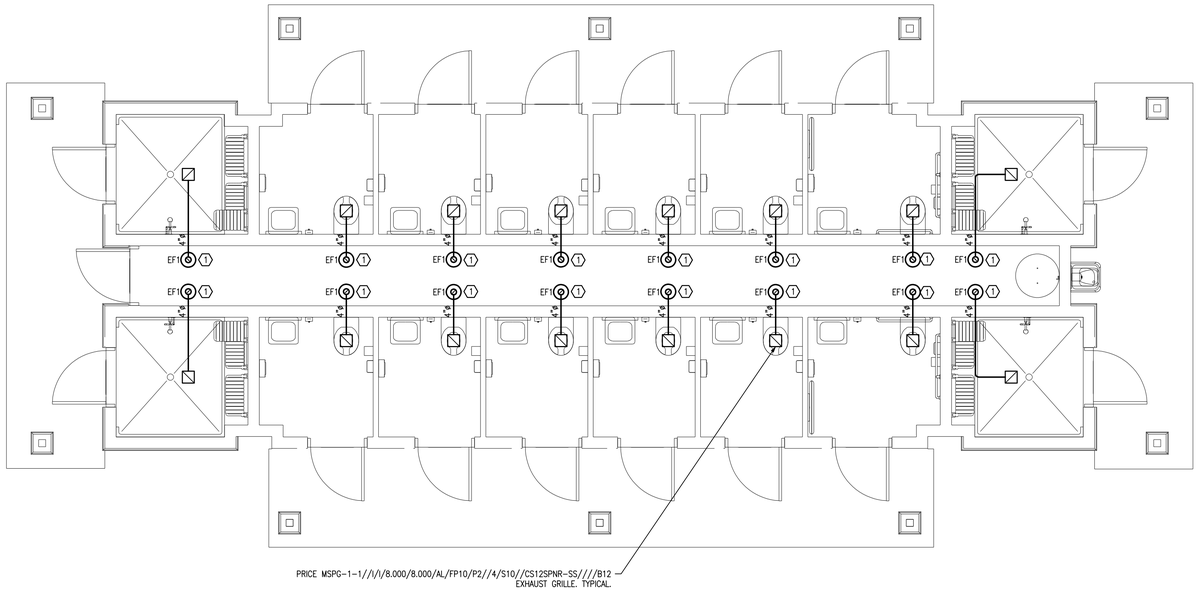
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CAD DWG FILE: P-PLN-02
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SHEET TITLE:
COMFORT STATION PLUMBING RISER DIAGRAMS

SHEET NUMBER:
P2

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1 M1 **COMFORT STATION HVAC PLAN**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. VERIFY PLUMBING, HVAC, POWER, AND LIGHTING REQUIREMENTS FOR OWNER'S SPECIFIC EQUIPMENT PRIOR TO ROUGH-IN.
2. COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL MAINTAIN FIRE RATING OF ANY PENETRATION AND SHALL SEAL ANY PENETRATION IN A FLOOR, CEILING, OR EXTERIOR WALL.
4. INSTALL A FIRE DAMPER AT EVERY FIRE RATED ASSEMBLY PENETRATION TO MAINTAIN FIRE RATING OF ASSEMBLY.
5. EXHAUST DUCTS SHALL BE METAL DUCT RUN IN FLOOR/CEILING ASSEMBLY WITH ANNULAR AREA FIRE CAULKED AT PENETRATIONS.
6. VERIFY RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
7. THERMOSTATS SHALL BE MOUNTED AT 60" (42" ADA) TO CENTER ABOVE FINISHED FLOOR.

KEYED NOTES:

(1) 4"ø EXHAUST DUCT UP TO ROOF JACK WITH BIRDSCREEN ON ROOF, MAINTAIN 10' MINIMUM CLEARANCE FROM FRESH AIR OPENINGS.

HVAC EQUIPMENT SCHEDULE

FANTECH IN-LINE EXHAUST FANS

MARK	CFM	ESP	DRIVE	RPM	SONES	HP	V / ø	WATTS	MOCP	MODEL	REMARKS
EF1	120	0.200"	DIRECT	3,000	–	–	120 / 1	20	15	FR100	1

1. OR APPROVED EQUAL.

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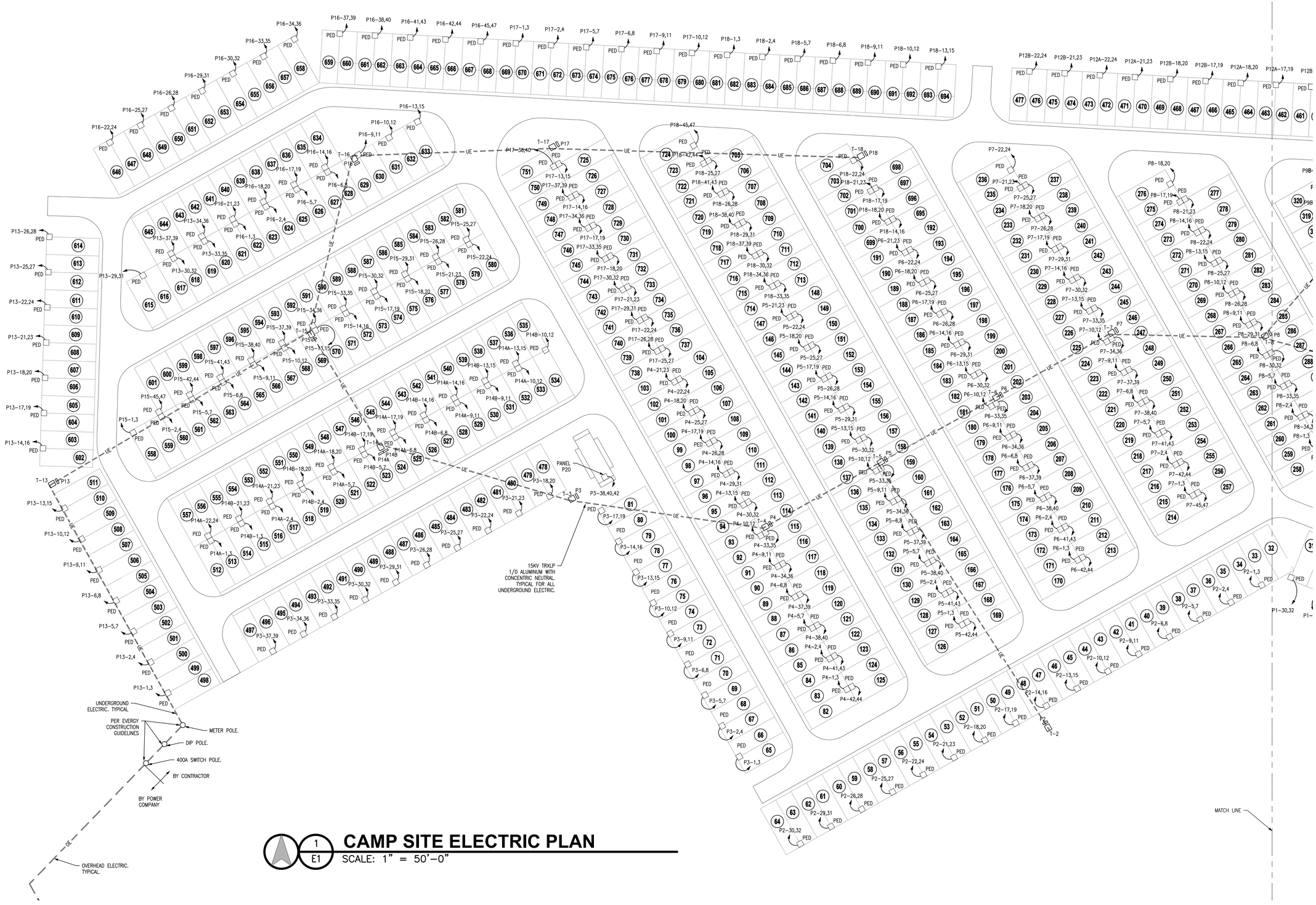
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CAD DWG FILE: M-PLN-02
DRAWN BY: JDB
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SHEET TITLE:
COMFORT STATION HVAC PLAN

SHEET NUMBER:
M1

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CAMP SITE ELECTRIC PLAN

1 / E1

SCALE: 1" = 50'-0"

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CAMP SITE ELECTRIC PLAN

SHEET NUMBER:

E1



1 E2 **CAMP SITE ELECTRIC PLAN**

SCALE: 1" = 50'–0"

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MO# E-16897

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER
FREDDIE L. MALICOAT NUMBER E-16897
09-19-25

MALICOAT - WINSLOW ENGINEERS, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY #000421
4840 RANGELINE STREET, #101 TEL 573-875-1300
COLUMBIA, MISSOURI 65202 FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

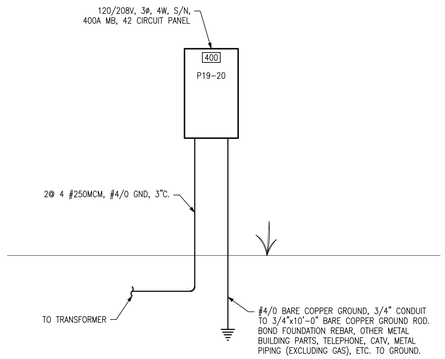
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DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

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DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
CAMP SITE ELECTRIC PLAN

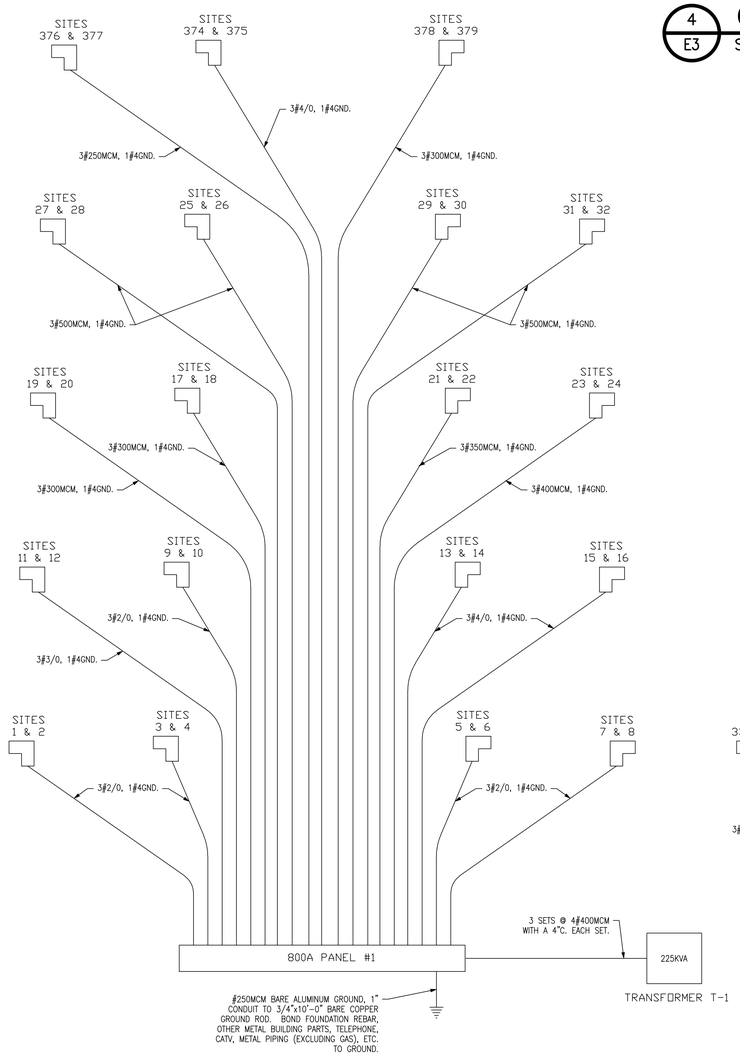
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E2

NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME ALUMINUM WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



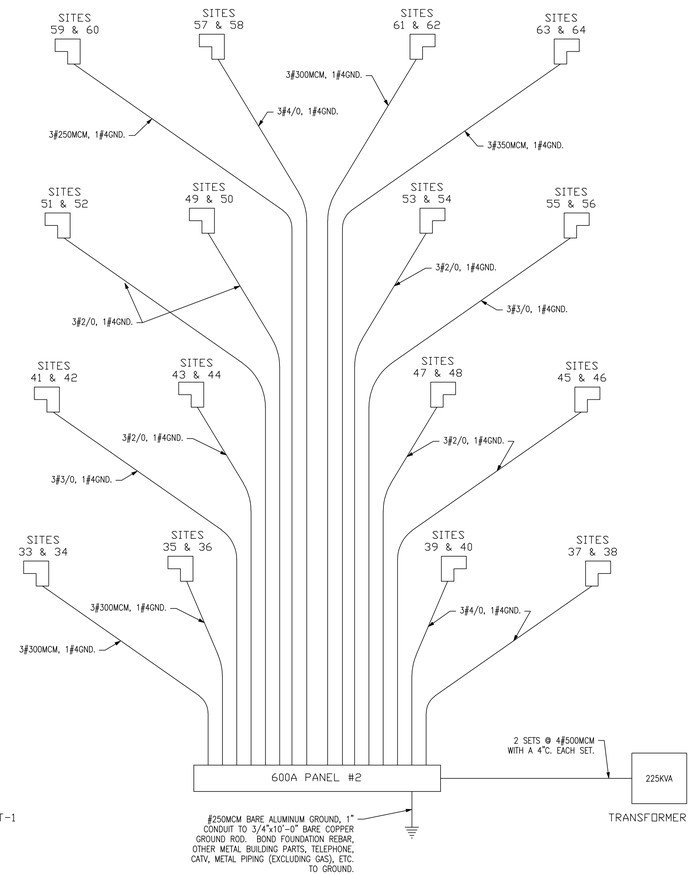
4 E3 COMFORT STATION ELECTRIC RISER

SCALE: NO SCALE TYPICAL OF 2



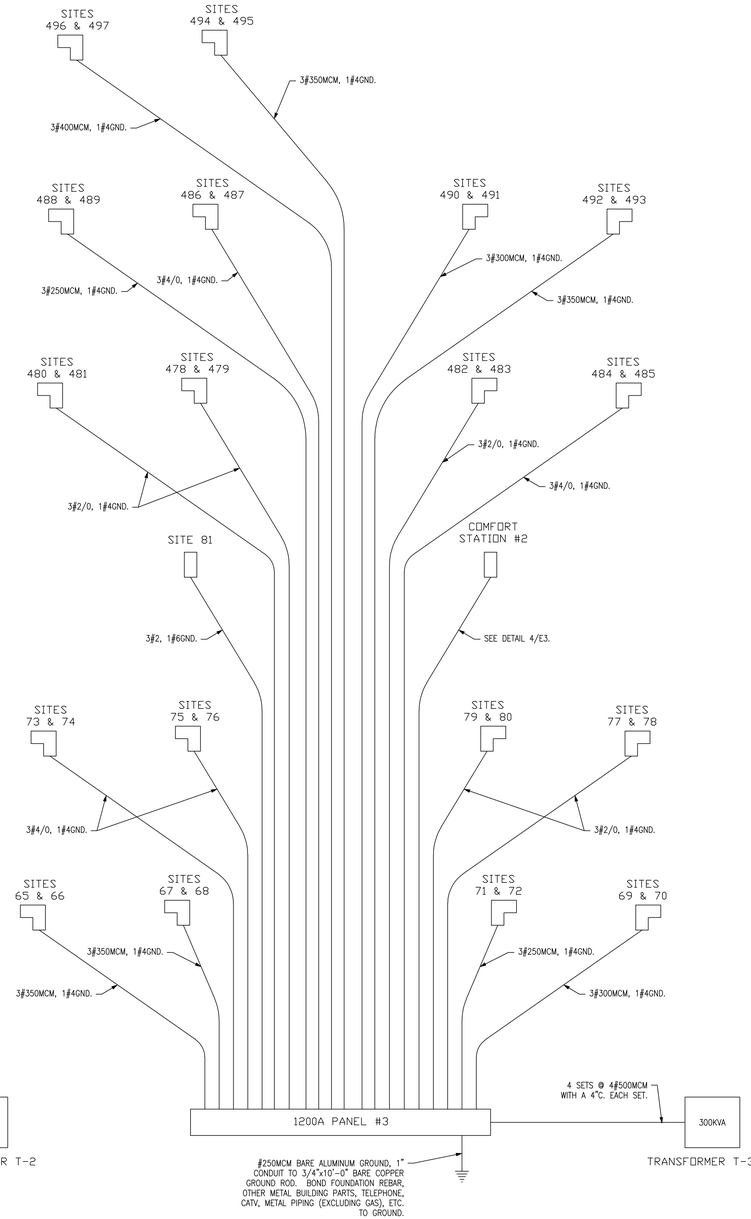
1 E3 ELECTRIC RISER DIAGRAM

SCALE: NO SCALE



2 E3 ELECTRIC RISER DIAGRAM

SCALE: NO SCALE



3 E3 ELECTRIC RISER DIAGRAM

SCALE: NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI FREDDIE L. MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL ENGINEER
04-14-25

MALICOAT - WINSLOW ENGINEERS, INC.
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DIVISION OF FACILITIES MANAGEMENT,
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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

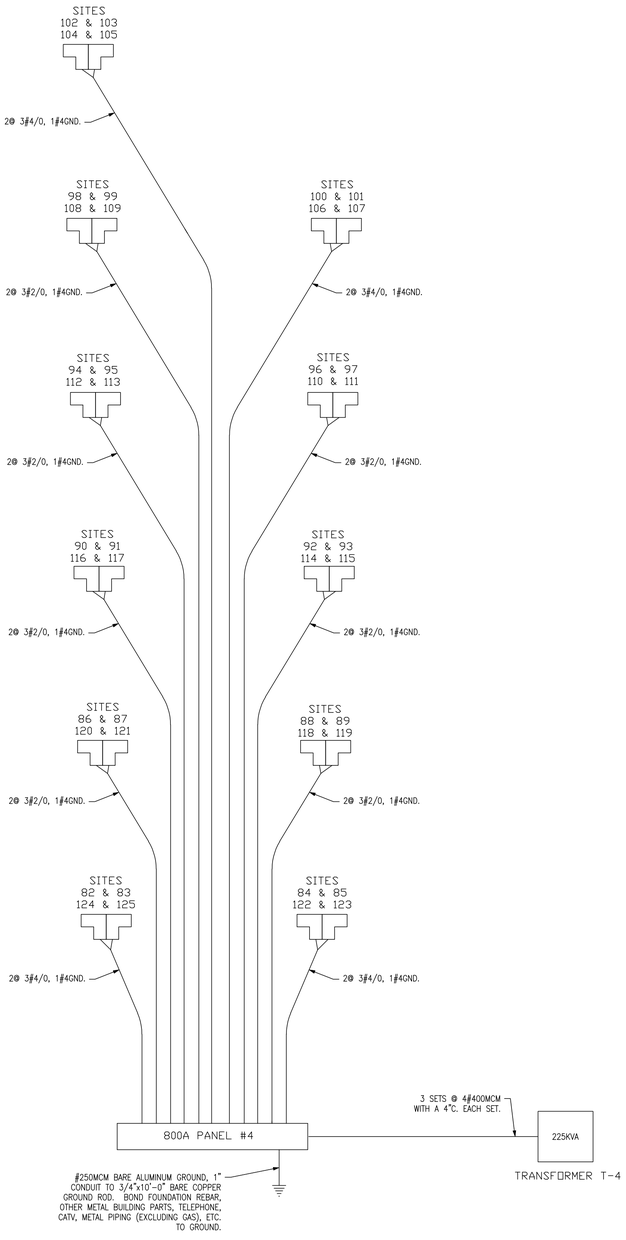
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DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

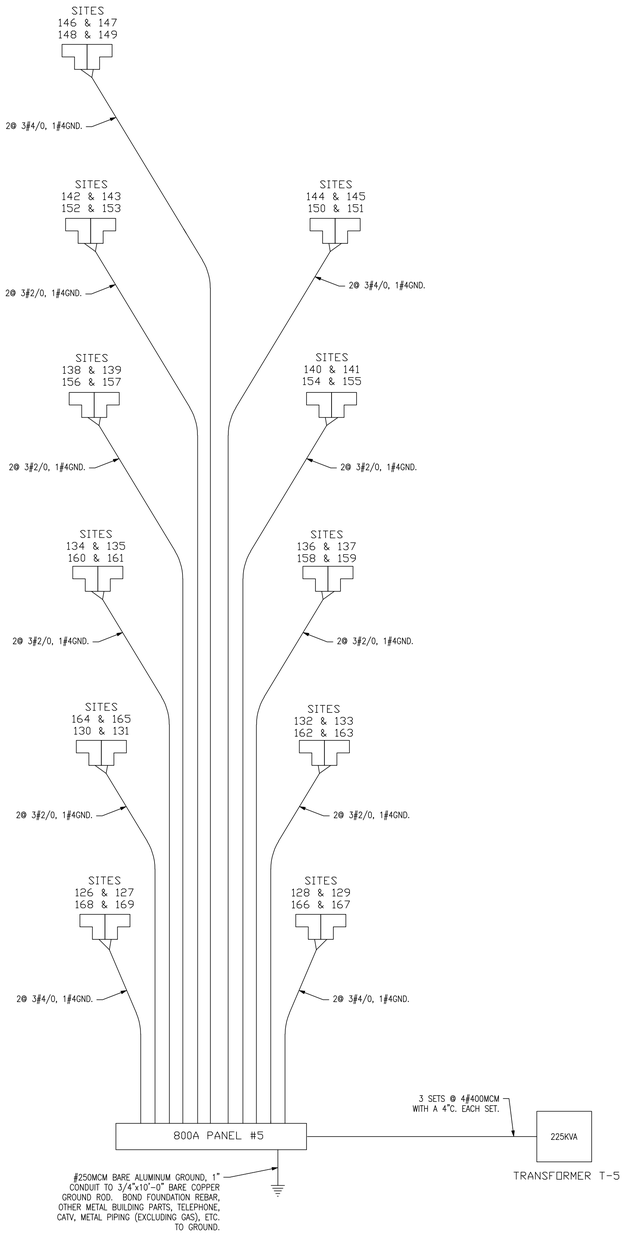
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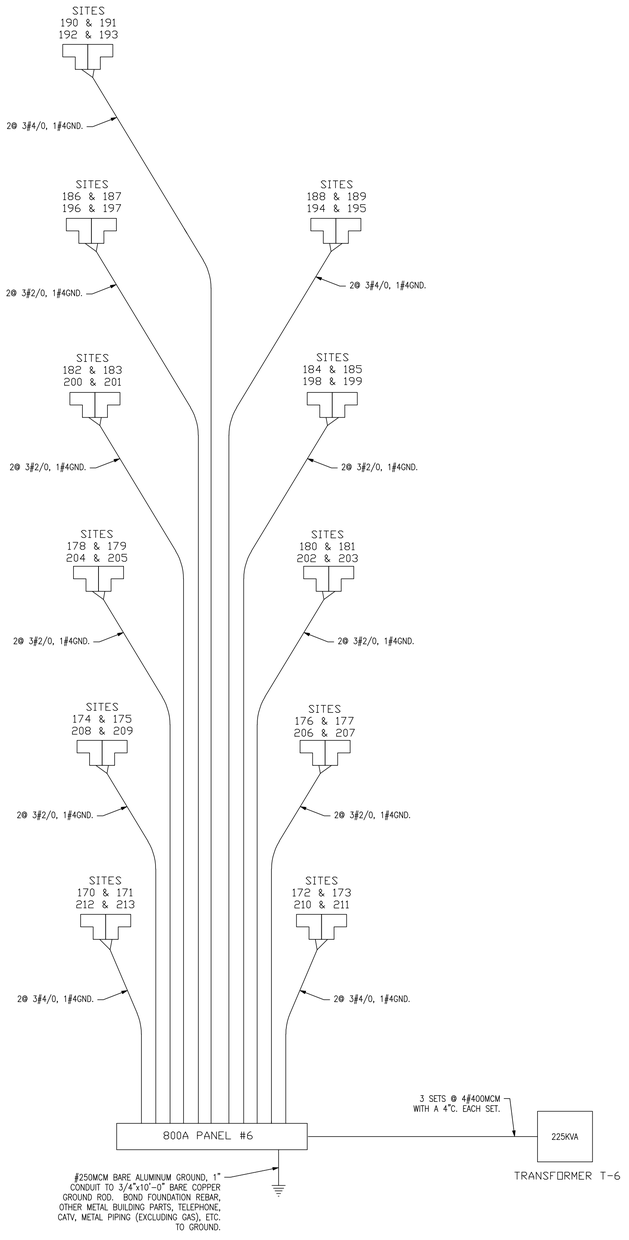
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME ALUMINUM WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



1 E4 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



2 E4 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



3 E4 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

T:\Job\24\24041124041.dwg, 9/19/2025 2:35:02 PM, JoshB

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897



MALICOAT - WINSLOW ENGINEERS, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY #000421
4840 RANGELINE STREET, #101
COLUMBIA, MISSOURI 65202
TEL 573-875-1300
FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

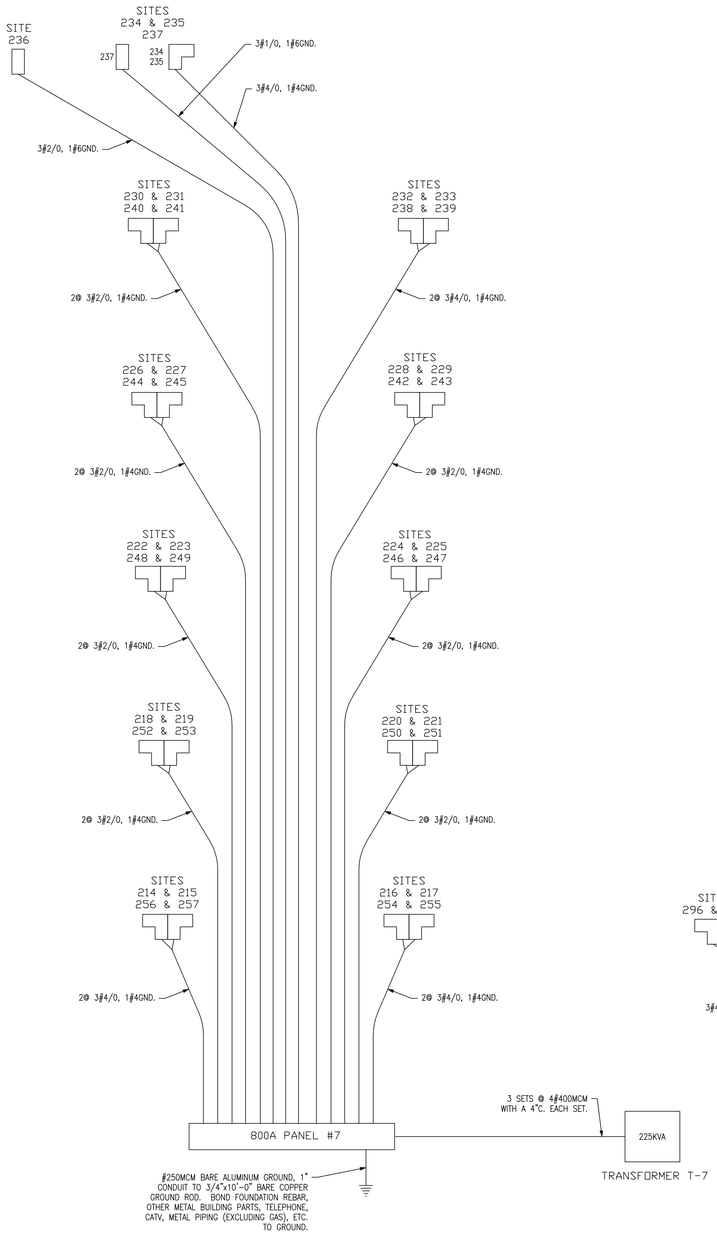
REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: E-PLN-04
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

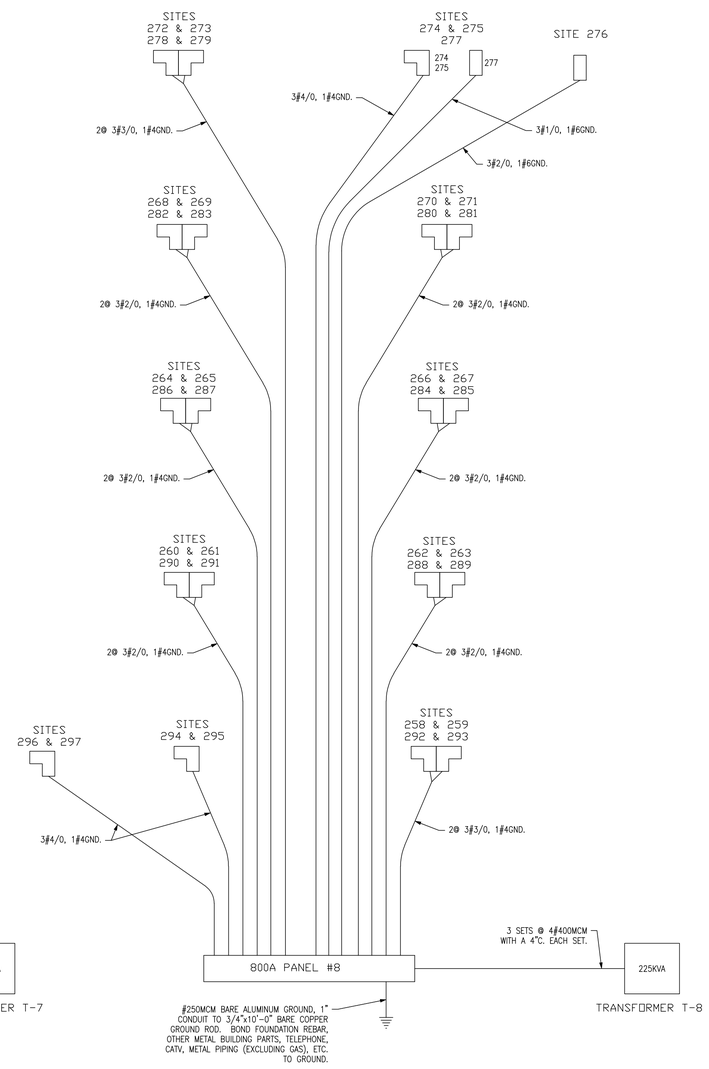
SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E4

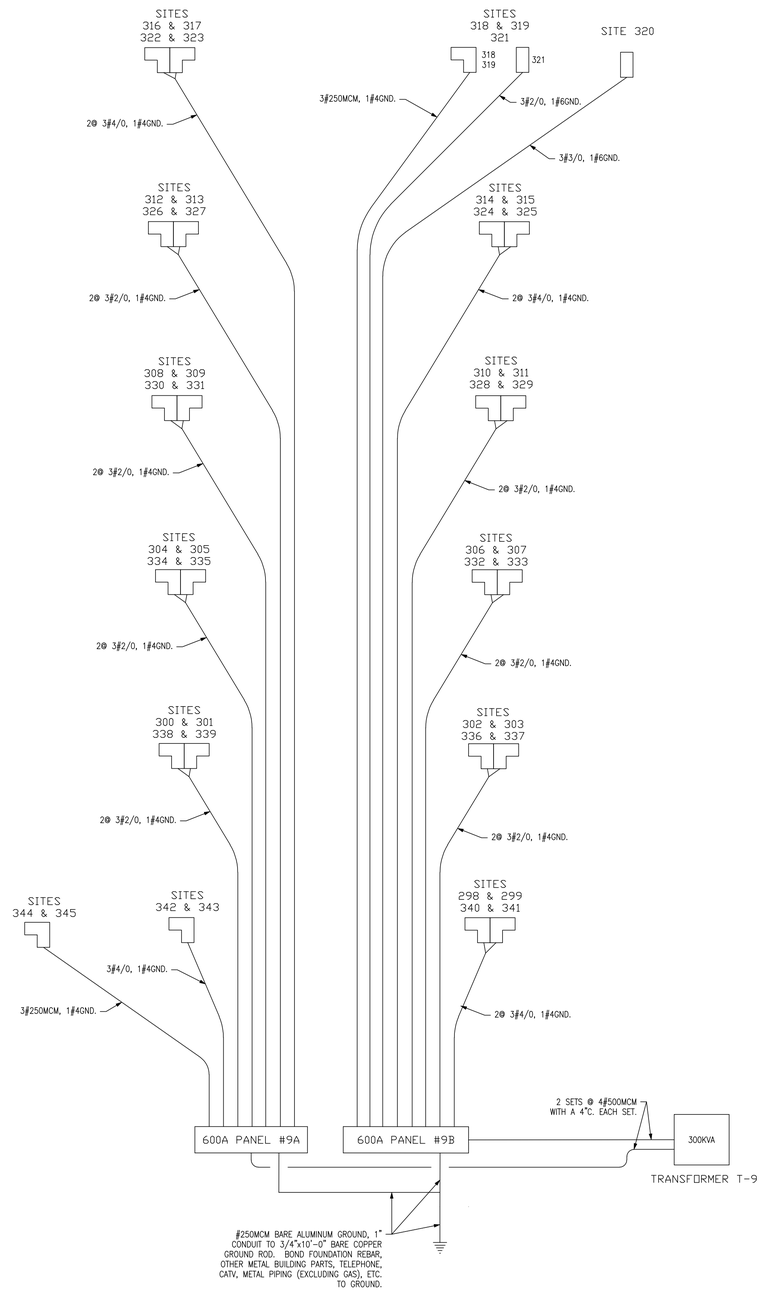
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME ALUMINUM WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



1 E5 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



2 E5 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



3 E5 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897
STATE OF MISSOURI REGISTERED ENGINEER FREDDIE L MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL
09-04-25

MALICOAT - WINSLOW ENGINEERS, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY #000421
4840 RANGELINE STREET, #101
COLUMBIA, MISSOURI 65202
TEL 573-875-1300
FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

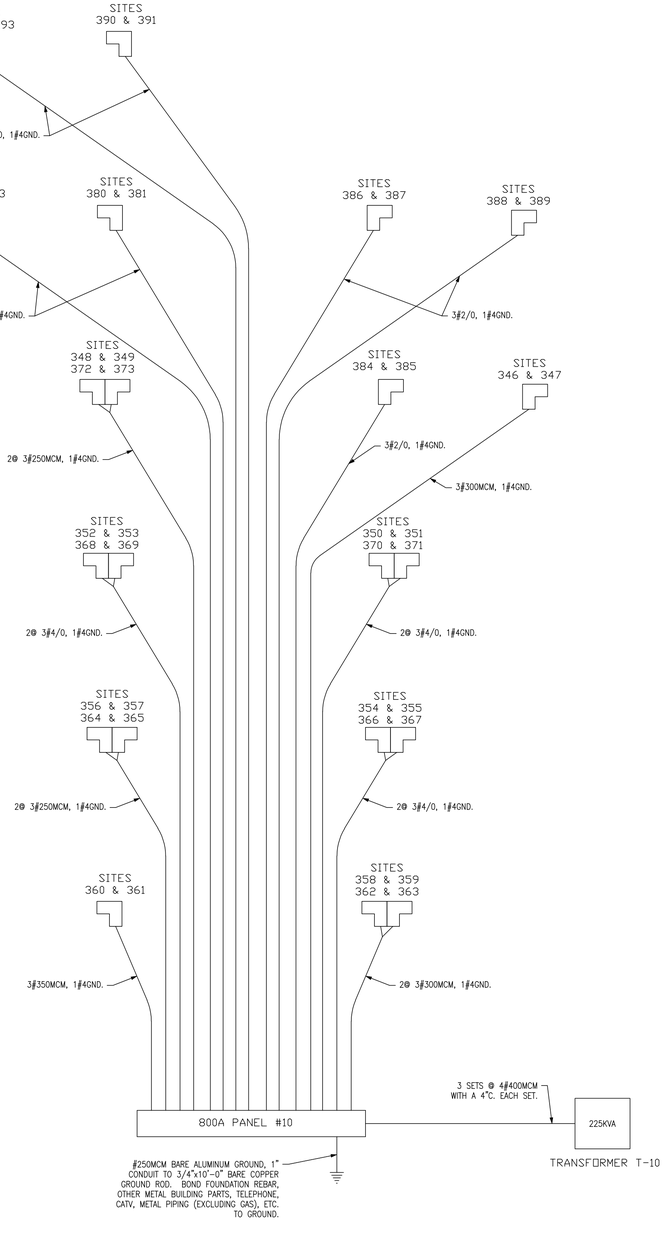
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DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

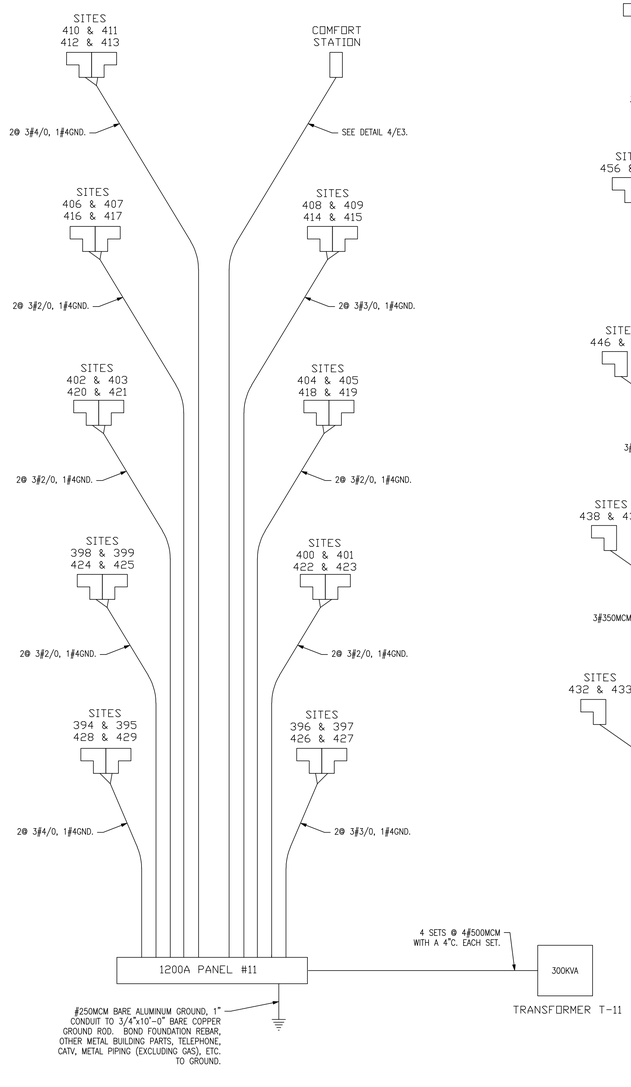
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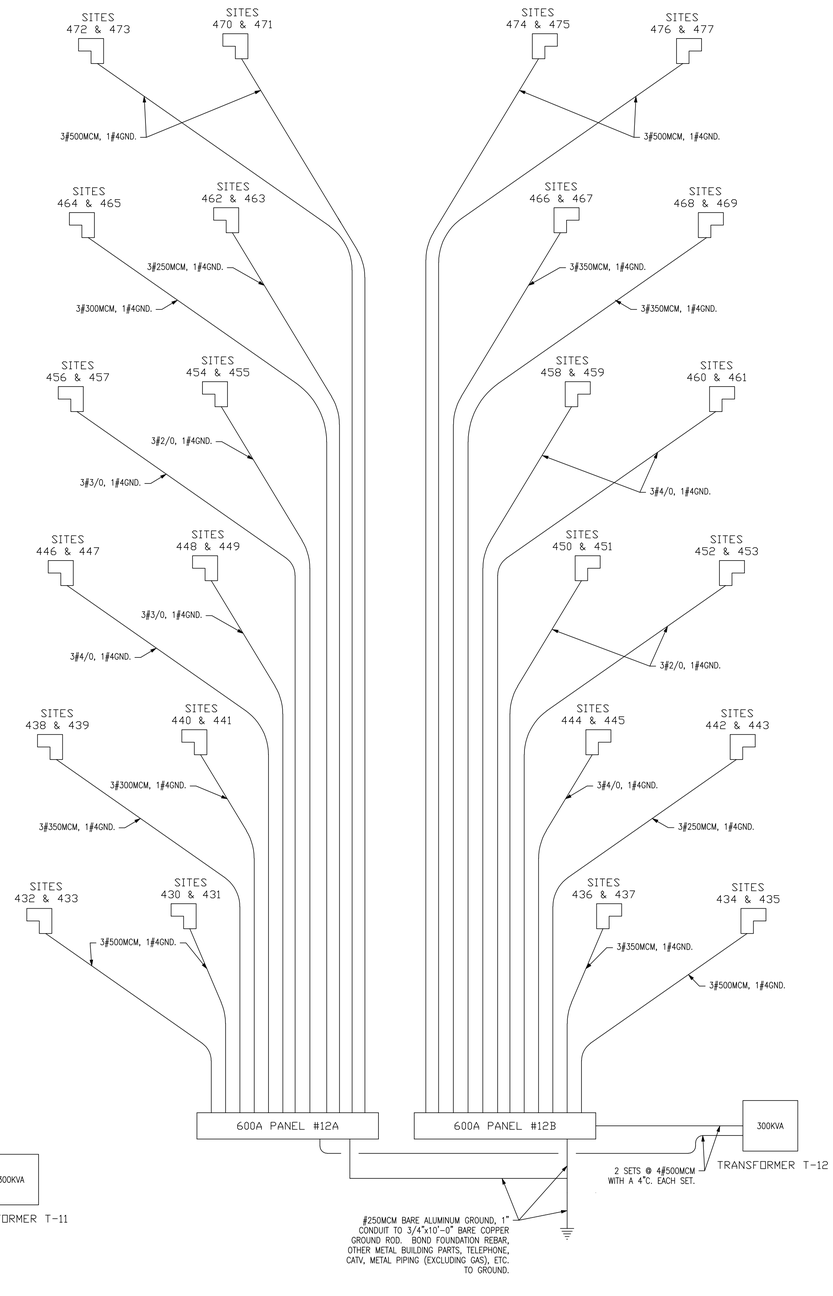
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME ALUMINUM WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



1 E6 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE



2 E6 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE



3 E6 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI FREDDIE L. MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL ENGINEER
04-14-25

MALICOAT - WINSLOW ENGINEERS, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY #000421
4840 RANGELINE STREET, #101
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TEL 573-875-1300
FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 09/19/2025

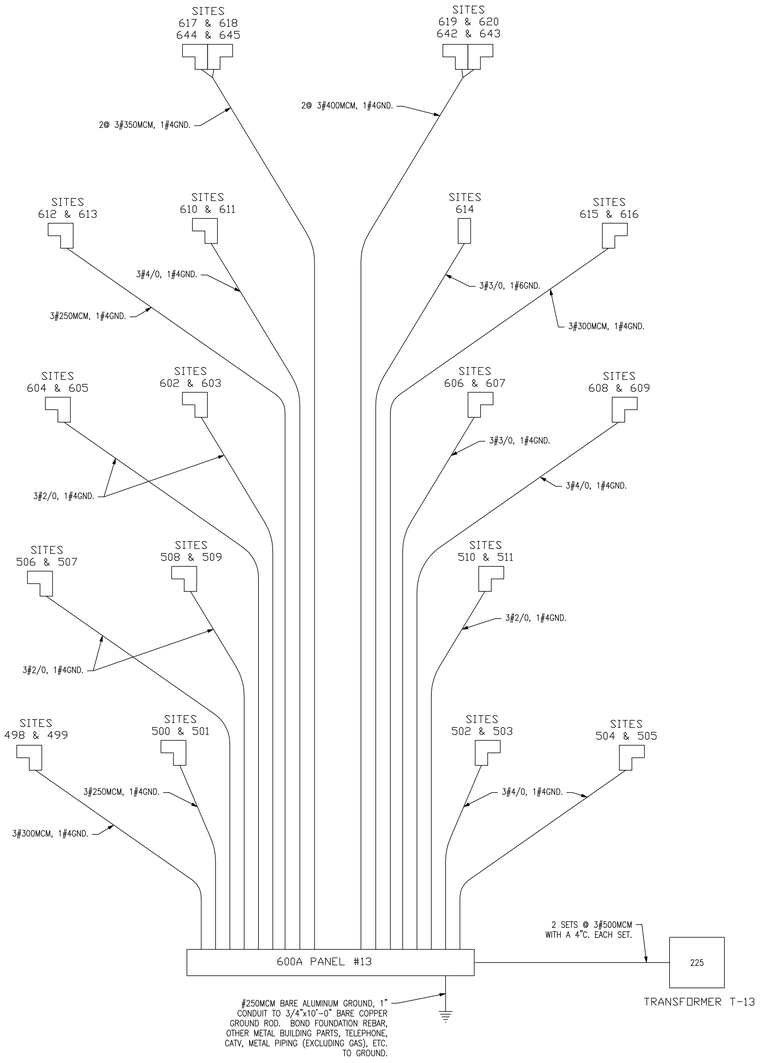
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DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

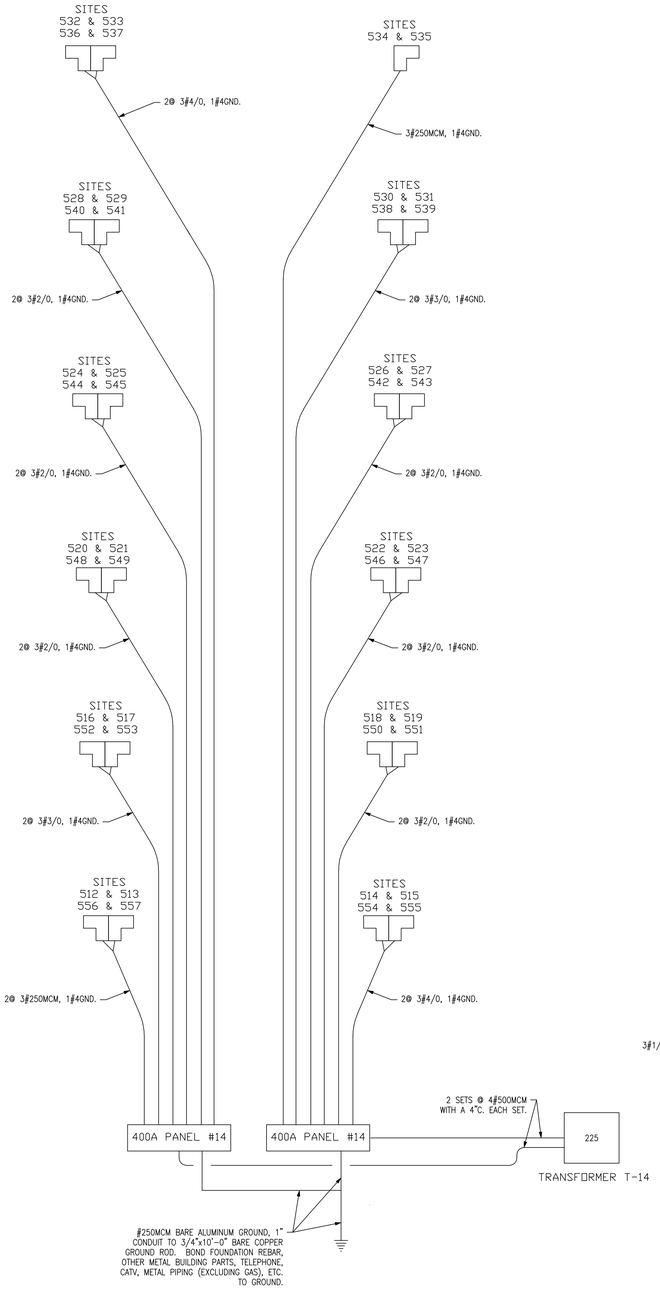
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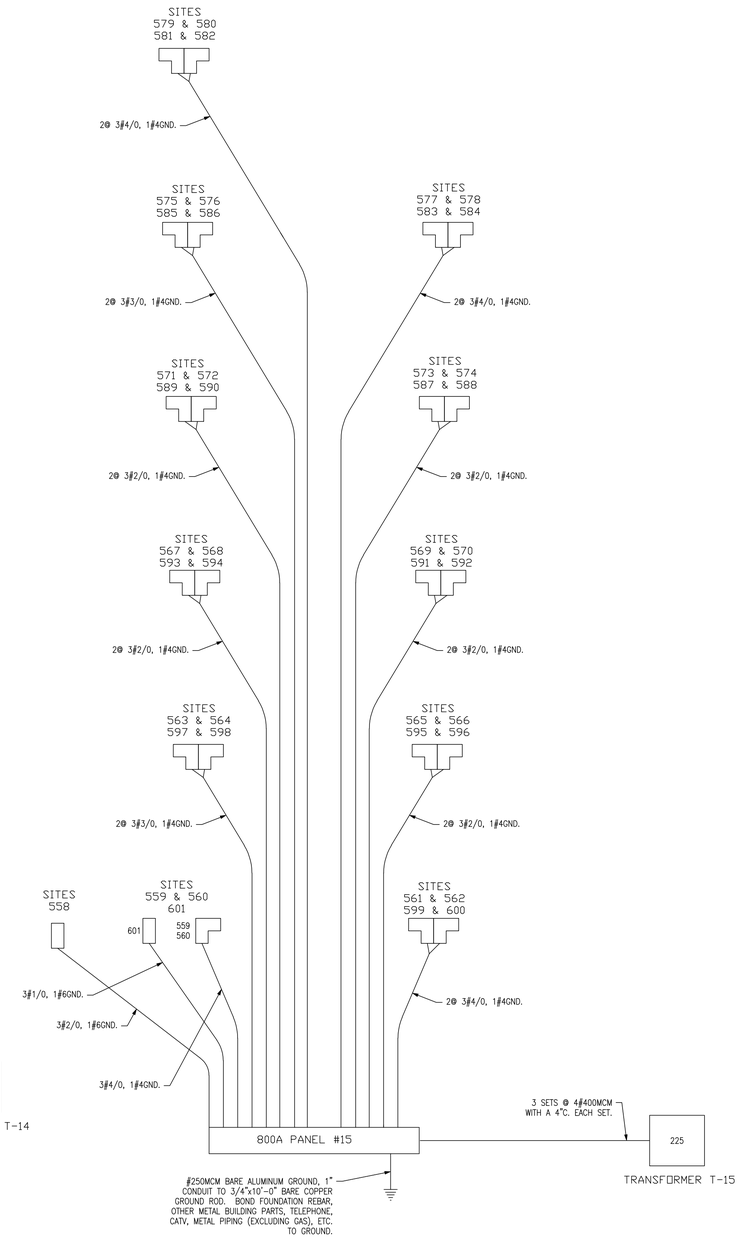
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME ALUMINUM WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



1 E7 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



2 E7 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



3 E7 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897
STATE OF MISSOURI PROFESSIONAL ENGINEER FREDDIE L MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL
04-14-25

MALICOAT - WINSLOW ENGINEERS, INC.
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DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

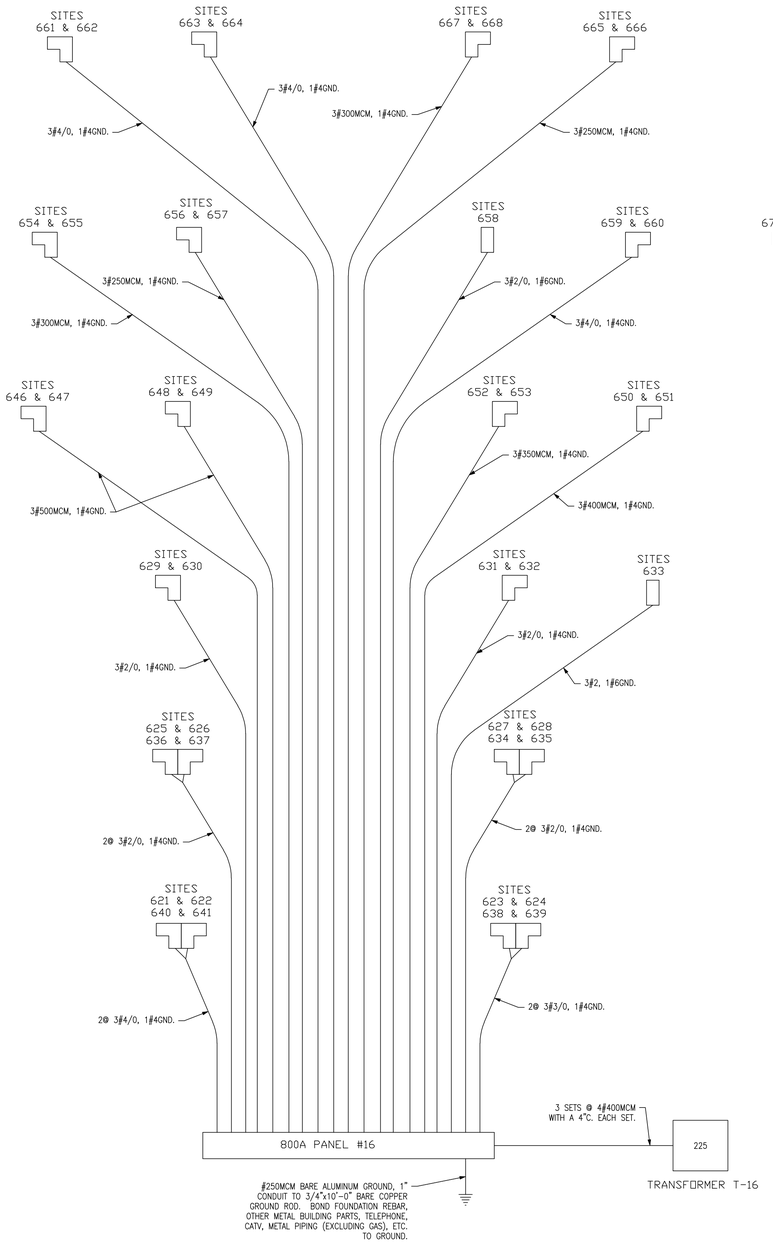
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DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

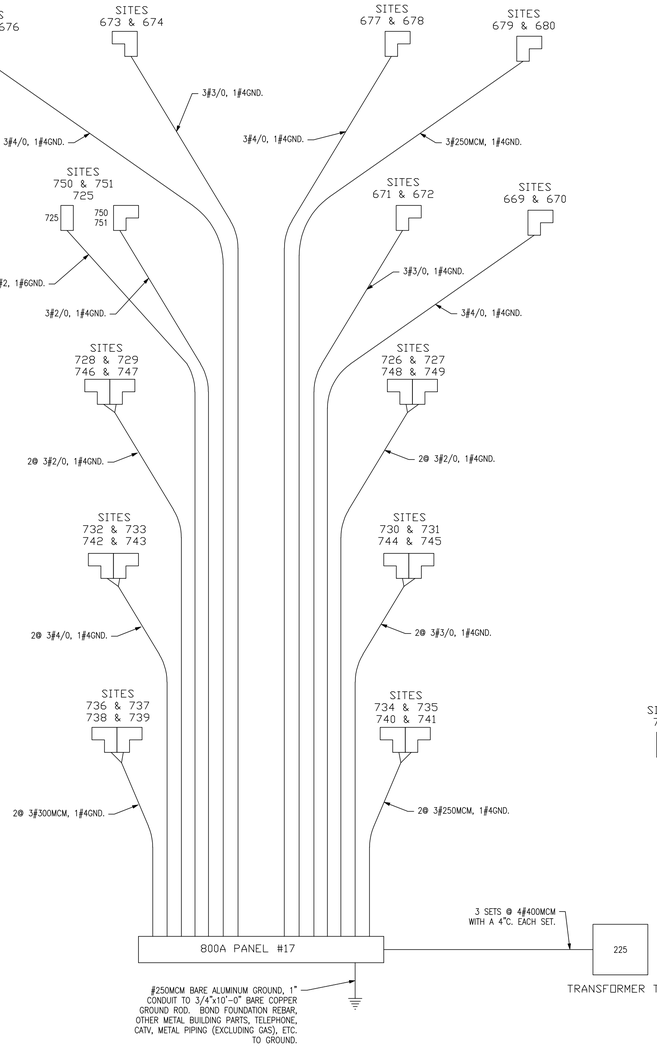
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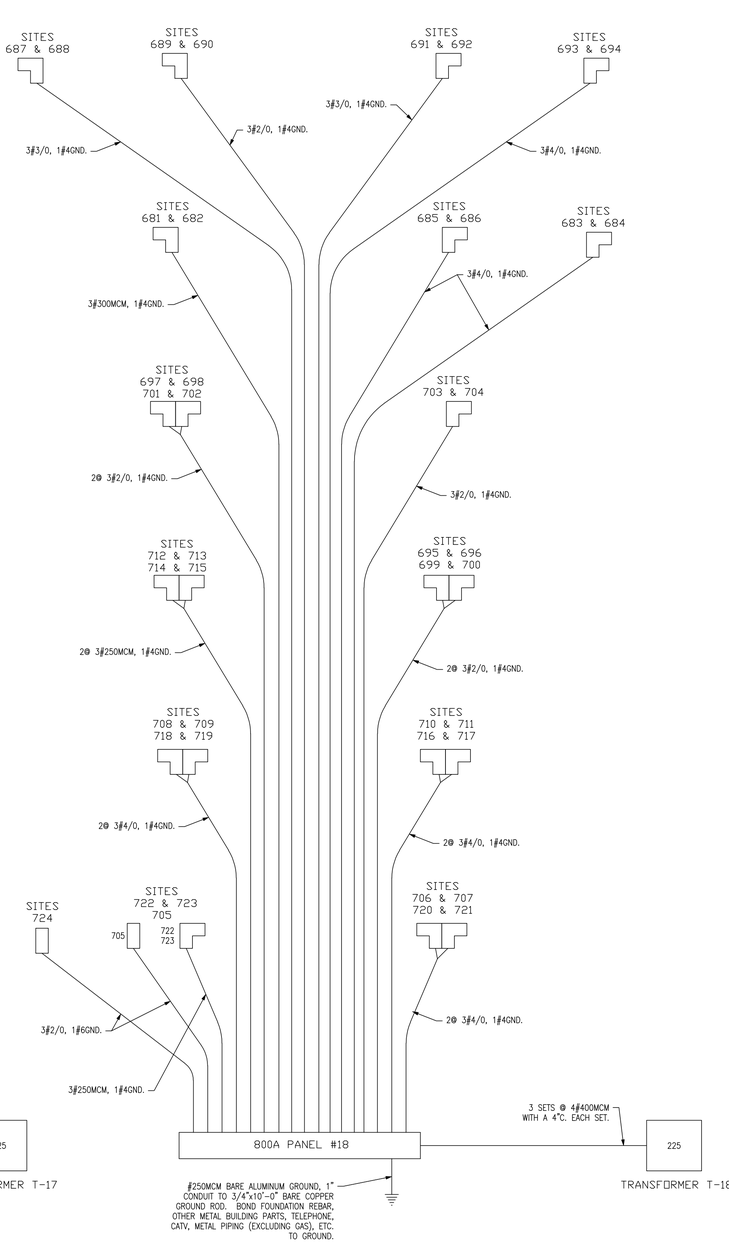
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME ALUMINUM WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



1 E8 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



2 E8 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



3 E8 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER FREDDIE L MALICOAT NUMBER E-16897
09-19-25

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FREDDIE MALICOAT, P.E.

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DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: E-PLN-08
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E8

P1

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 156000
PHASE 3 | BUSS MATERIAL | B WATTS 156000
WIRE 4 | MOUNTING | C WATTS 144000

TOTAL WATTS 456000
SIMULTANEOUS LOAD WATTS 186960

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 1,2	150–2	12000	A	12000	150–2	SITE 3,4	2
3	–	–	12000	B	12000	–	–	4
5	SITE 5,6	150–2	12000	C	12000	150–2	SITE 7,8	6
7	–	–	12000	A	12000	–	–	8
9	SITE 9,10	150–2	12000	B	12000	150–2	SITE 11,12	10
11	–	–	12000	C	12000	–	–	12
13	SITE 13,14	150–2	12000	A	12000	150–2	SITE 15,16	14
15	–	–	12000	B	12000	–	–	16
17	SITE 17,18	150–2	12000	C	12000	150–2	SITE 19,20	18
19	–	–	12000	A	12000	–	–	20
21	SITE 21,22	150–2	12000	B	12000	150–2	SITE 23,24	22
23	–	–	12000	C	12000	–	–	24
25	SITE 25,26	150–2	12000	A	12000	150–2	SITE 27,28	26
27	–	–	12000	B	12000	–	–	28
29	SITE 29,30	150–2	12000	C	12000	150–2	SITE 31,32	30
31	–	–	12000	A	12000	–	–	32
33	SITE 374,375	150–2	12000	B	12000	150–2	SITE 376,377	34
35	–	–	12000	C	12000	–	–	36
37	SITE 378,379	150–2	12000	A	0	20–2	SPARE	38
39	–	–	12000	B	0	–	–	40
41	SPARE	20–1	0	C	0	20–1	SPARE	42

P2

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 144000
PHASE 3 | BUSS MATERIAL | B WATTS 120000
WIRE 4 | MOUNTING | C WATTS 120000

TOTAL WATTS 384000
SIMULTANEOUS LOAD WATTS 161280

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 33,34	150–2	12000	A	12000	150–2	SITE 35,36	2
3	–	–	12000	B	12000	–	–	4
5	SITE 37,38	150–2	12000	C	12000	150–2	SITE 39,40	6
7	–	–	12000	A	12000	–	–	8
9	SITE 41,42	150–2	12000	B	12000	150–2	SITE 43,44	10
11	–	–	12000	C	12000	–	–	12
13	SITE 45,46	150–2	12000	A	12000	150–2	SITE 47,48	14
15	–	–	12000	B	12000	–	–	16
17	SITE 49,50	150–2	12000	C	12000	150–2	SITE 51,52	18
19	–	–	12000	A	12000	–	–	20
21	SITE 53,54	150–2	12000	B	12000	150–2	SITE 55,56	22
23	–	–	12000	C	12000	–	–	24
25	SITE 57,58	150–2	12000	A	12000	150–2	SITE 59,60	26
27	–	–	12000	B	12000	–	–	28
29	SITE 61,62	150–2	12000	C	12000	150–2	SITE 63,64	30
31	–	–	12000	A	12000	–	–	32
33	SPARE	20–2	0	B	0	20–2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20–2	0	A	0	20–2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20–1	0	C	0	20–1	SPARE	42

P3

VOLTS 120/208 | MAIN CAPACITY 1200 A MCB | A WATTS 176000
PHASE 3 | BUSS MATERIAL | B WATTS 180360
WIRE 4 | MOUNTING | C WATTS 162998

TOTAL WATTS 519358
SIMULTANEOUS LOAD WATTS 258040

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 65,66	150–2	12000	A	12000	150–2	SITE 67,68	2
3	–	–	12000	B	12000	–	–	4
5	SITE 69,70	150–2	12000	C	12000	150–2	SITE 71,72	6
7	–	–	12000	A	12000	–	–	8
9	SITE 73,74	150–2	12000	B	12000	150–2	SITE 75,76	10
11	–	–	12000	C	12000	–	–	12
13	SITE 77,78	150–2	12000	A	12000	150–2	SITE 79,80	14
15	–	–	12000	B	12000	–	–	16
17	SITE 81	80–2	6000	C	12000	150–2	SITE 478,479	18
19	–	–	6000	A	12000	–	–	20
21	SITE 480,481	150–2	12000	B	12000	150–2	SITE 482,483	22
23	–	–	12000	C	12000	–	–	24
25	SITE 484,485	150–2	12000	A	12000	150–2	SITE 486,487	26
27	–	–	12000	B	12000	–	–	28
29	SITE 488,489	150–2	12000	C	12000	150–2	SITE 490,491	30
31	–	–	12000	A	12000	–	–	32
33	SITE 492,493	150–2	12000	B	12000	150–2	SITE 494,495	34
35	–	–	12000	C	12000	–	–	36
37	SITE 496,497	150–2	12000	A	26000	400–3	COMFORT STATION #2	38
39	–	–	12000	B	24360	–	–	40
41	SPARE	20–2	0	C	24998	–	–	42
43	–	–	0	A	0	20–2	SPARE	44
45	SPARE	20–2	0	B	0	–	–	46
47	–	–	0	C	0	20–2	SPARE	48
49	SPARE	20–2	0	A	0	–	–	50
51	–	–	0	B	0	20–1	SPARE	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P4

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 192000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 168000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 82,83	150–2	12000	A	12000	150–2	SITE 84,85	2
3	–	–	12000	B	12000	–	–	4
5	SITE 86,87	150–2	12000	C	12000	150–2	SITE 88,89	6
7	–	–	12000	A	12000	–	–	8
9	SITE 90,91	150–2	12000	B	12000	150–2	SITE 92,93	10
11	–	–	12000	C	12000	–	–	12
13	SITE 94,95	150–2	12000	A	12000	150–2	SITE 96,97	14
15	–	–	12000	B	12000	–	–	16
17	SITE 98,99	150–2	12000	C	12000	150–2	SITE 100,101	18
19	–	–	12000	A	12000	–	–	20
21	SITE 102,103	150–2	12000	B	12000	150–2	SITE 104,105	22
23	–	–	12000	C	12000	–	–	24
25	SITE 106,107	150–2	12000	A	12000	150–2	SITE 108,109	26
27	–	–	12000	B	12000	–	–	28
29	SITE 110,111	150–2	12000	C	12000	150–2	SITE 112,113	30
31	–	–	12000	A	12000	–	–	32
33	SITE 114,115	150–2	12000	B	12000	150–2	SITE 116,117	34
35	–	–	12000	C	12000	–	–	36
37	SITE 118,119	150–2	12000	A	12000	150–2	SITE 120,121	38
39	–	–	12000	B	12000	–	–	40
41	SITE 122,123	150–2	12000	C	12000	150–2	SITE 124,125	42
43	–	–	12000	A	12000	–	–	44
45	SPARE	20–2	0	B	0	20–2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P5

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 192000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 168000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 126,127	150–2	12000	A	12000	150–2	SITE 128,129	2
3	–	–	12000	B	12000	–	–	4
5	SITE 130,131	150–2	12000	C	12000	150–2	SITE 132,133	6
7	–	–	12000	A	12000	–	–	8
9	SITE 134,135	150–2	12000	B	12000	150–2	SITE 136,137	10
11	–	–	12000	C	12000	–	–	12
13	SITE 138,139	150–2	12000	A	12000	150–2	SITE 140,141	14
15	–	–	12000	B	12000	–	–	16
17	SITE 142,143	150–2	12000	C	12000	150–2	SITE 144,145	18
19	–	–	12000	A	12000	–	–	20
21	SITE 146,147	150–2	12000	B	12000	150–2	SITE 148,149	22
23	–	–	12000	C	12000	–	–	24
25	SITE 150,151	150–2	12000	A	12000	150–2	SITE 152,153	26
27	–	–	12000	B	12000	–	–	28
29	SITE 154,155	150–2	12000	C	12000	150–2	SITE 156,157	30
31	–	–	12000	A	12000	–	–	32
33	SITE 158,159	150–2	12000	B	12000	150–2	SITE 160,161	34
35	–	–	12000	C	12000	–	–	36
37	SITE 162,163	150–2	12000	A	12000	150–2	SITE 164,165	38
39	–	–	12000	B	12000	–	–	40
41	SITE 166,167	150–2	12000	C	12000	150–2	SITE 168,169	42
43	–	–	12000	A	12000	–	–	44
45	SPARE	20–2	0	B	0	20–2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P6

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 192000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 168000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 170,171	150–2	12000	A	12000	150–2	SITE 172,173	2
3	–	–	12000	B	12000	–	–	4
5	SITE 174,175	150–2	12000	C	12000	150–2	SITE 176,177	6
7	–	–	12000	A	12000	–	–	8
9	SITE 178,179	150–2	12000	B	12000	150–2	SITE 180,181	10
11	–	–	12000	C	12000	–	–	12
13	SITE 182,183	150–2	12000	A	12000	150–2	SITE 184,185	14
15	–	–	12000	B	12000	–	–	16
17	SITE 186,187	150–2	12000	C	12000	150–2	SITE 188,189	18
19	–	–	12000	A	12000	–	–	20
21	SITE 190,191	150–2	12000	B	12000	150–2	SITE 192,193	22
23	–	–	12000	C	12000	–	–	24
25	SITE 194,195	150–2	12000	A	12000	150–2	SITE 196,197	26
27	–	–	12000	B	12000	–	–	28
29	SITE 198,199	150–2	12000	C	12000	150–2	SITE 200,201	30
31	–	–	12000	A	12000	–	–	32
33	SITE 202,203	150–2	12000	B	12000	150–2	SITE 204,205	34
35	–	–	12000	C	12000	–	–	36
37	SITE 206,207	150–2	12000	A	12000	150–2	SITE 208,209	38
39	–	–	12000	B	12000	–	–	40
41	SITE 210,211	150–2	12000	C	12000	150–2	SITE 212,213	42
43	–	–	12000	A	12000	–	–	44
45	SPARE	20–2	0	B	0	20–2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P7

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 186000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 174000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 214,215	150–2	12000	A	12000	150–2	SITE 216,217	2
3	–	–	12000	B	12000	–	–	4
5	SITE 218,219	150–2	12000	C	12000	150–2	SITE 220,221	6
7	–	–	12000	A	12000	–	–	8
9	SITE 222,223	150–2	12000	B	12000	150–2	SITE 224,225	10
11	–	–	12000	C	12000	–	–	12
13	SITE 226,227	150–2	12000	A	12000	150–2	SITE 228,229	14
15	–	–	12000	B	12000	–	–	16
17	SITE 230,231	150–2	12000	C	12000	150–2	SITE 232,233	18
19	–	–	12000	A	12000	–	–	20
21	SITE 234,235	150–2	12000	B	6000	80–2	SITE 236	22
23	–	–	12000	C	6000	–	–	24
25	SITE 237	80–2	6000	A	12000	150–2	SITE 238,239	26
27	–	–	6000	B	12000	–	–	28
29	SITE 240,241	150–2	12000	C	12000	150–2	SITE 242,243	30
31	–	–	12000	A	12000	–	–	32
33	SITE 244,245	150–2	12000	B	12000	150–2	SITE 246,247	34
35	–	–	12000	C	12000	–	–	36
37	SITE 248,249	150–2	12000	A	12000	150–2	SITE 250,251	38
39	–	–	12000	B	12000	–	–	40
41	SITE 252,253	150–2	12000	C	12000	150–2	SITE 254,255	42
43	–	–	12000	A	12000	–	–	44
45	SITE 256,257	150–2	12000	B	0	20–2	SPARE	46
47	–	–	12000	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P8

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 174000
PHASE 3 | BUSS MATERIAL | B WATTS 162000
WIRE 4 | MOUNTING | C WATTS 144000

TOTAL WATTS 480000
SIMULTANEOUS LOAD WATTS 196800

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 258,259	150–2	12000	A	12000	150–2	SITE 260,261	2
3	–	–	12000	B	12000	–	–	4
5	SITE 262,263	150–2	12000	C	12000	150–2	SITE 264,265	6
7	–	–	12000	A	12000	–	–	8
9	SITE 266,267	150–2	12000	B	12000	150–2	SITE 268,269	10
11	–	–	12000	C	12000	–	–	12
13	SITE 270,271	150–2	12000	A	12000	150–2	SITE 272,273	14
15	–	–	12000	B	12000	–	–	16
17	SITE 274,275	150–2	12000	C	6000	80–2	SITE 276	18
19	–	–	12000	A	6000	–	–	20
21	SITE 277	80–2	6000	B	12000	150–2	SITE 278,279	22
23	–	–	6000	C	12000	–	–	24
25	SITE 280,281	150–2	12000	A	12000	150–2	SITE 282,283	26
27	–	–	12000	B	12000	–	–	28
29	SITE 284,285	150–2	12000	C	12000	150–2	SITE 286,287	30
31	–	–	12000	A	12000	–	–	32
33	SITE 288,289	150–2	12000	B	12000	150–2	SITE 290,291	34
35	–	–	12000	C	12000	–	–	36
37	SITE 292,293	150–2	12000	A	12000	150–2	SITE 294,295	38
39	–	–	12000	B	12000	–	–	40
41	SITE 296,297	150–2	12000	C	0	20–2	SPARE	42
43	–	–	12000	A	0	–	–	44
45	SPARE	20–2	0	B	0	20–2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI
FREDDIE L.
MALICOAT
NUMBER
E-16897
REGISTERED PROFESSIONAL ENGINEER
04-14-25

MALICOAT - WINSLOW
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MISSOURI STATE CERTIFICATE OF AUTHORITY #00421
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COLUMBIA, MISSOURI 65202
TEL 573-875-1300
FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: E-PLN-09
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:

ELECTRIC
PANEL
SCHEDULES

SHEET NUMBER:

E9

55 OF 59
09/19/2025

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P9A

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 96000
PHASE 3 | BUSS MATERIAL | B WATTS 96000
WIRE 4 | MOUNTING | C WATTS 96000

TOTAL WATTS 288000
SIMULTANEOUS LOAD WATTS 123840

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 300,301	150–2	12000	A	12000	150–2	SITE 304,305	2
3	–	–	12000	B	12000	–	–	4
5	SITE 308,309	150–2	12000	C	12000	150–2	SITE 312,313	6
7	–	–	12000	A	12000	–	–	8
9	SITE 316,317	150–2	12000	B	12000	150–2	SITE 322,323	10
11	–	–	12000	C	12000	–	–	12
13	SITE 326,327	150–2	12000	A	12000	150–2	SITE 330,331	14
15	–	–	12000	B	12000	–	–	16
17	SITE 334,335	150–2	12000	C	12000	150–2	SITE 338,339	18
19	–	–	12000	A	12000	–	–	20
21	SITE 342,343	150–2	12000	B	12000	150–2	SITE 344,345	22
23	–	–	12000	C	12000	–	–	24
25	SPARE	20–2	0	A	0	20–2	SPARE	26
27	–	–	0	B	0	–	–	28
29	SPARE	20–2	0	C	0	20–2	SPARE	30
31	–	–	0	A	0	–	–	32
33	SPARE	20–2	0	B	0	20–2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20–2	0	A	0	20–2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20–1	0	C	0	20–1	SPARE	42

P9B

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 96000
PHASE 3 | BUSS MATERIAL | B WATTS 96000
WIRE 4 | MOUNTING | C WATTS 96000

TOTAL WATTS 288000
SIMULTANEOUS LOAD WATTS 123840

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 298,299	150–2	12000	A	12000	150–2	SITE 302,303	2.4
3	–	–	12000	B	12000	150–2	SITE 302,303	2.4
5.7	SITE 306,307	150–2	12000	C	12000	150–2	SITE 310,311	6
5.7	SITE 306,307	150–2	12000	A	12000	–	–	8
9	SITE 314,315	150–2	12000	B	12000	150–2	SITE 318,319	10
11	–	–	12000	C	12000	–	–	12
13	SITE 320	80–2	6000	A	6000	80–2	SITE 321	14
15	–	–	6000	B	6000	–	–	16
17	SITE 324,325	150–2	12000	C	12000	150–2	SITE 328,329	18
19	–	–	12000	A	12000	–	–	20
21	SITE 332,333	150–2	12000	B	12000	150–2	SITE 336,337	22
23	–	–	12000	C	12000	–	–	24
25	SITE 340,341	150–2	12000	A	0	20–2	SPARE	26
27	–	–	12000	B	0	–	–	28
29	SPARE	20–2	0	C	0	20–2	SPARE	30
31	–	–	0	A	0	–	–	32
33	SPARE	20–2	0	B	0	20–2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20–2	0	A	0	20–2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20–1	0	C	0	20–1	SPARE	42

P10

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 180000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 156000

TOTAL WATTS 504000
SIMULTANEOUS LOAD WATTS 206640

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 346,347	150–2	12000	A	12000	150–2	SITE 348,349	2
3	–	–	12000	B	12000	–	–	4
5	SITE 350,351	150–2	12000	C	12000	150–2	SITE 352,353	6
7	–	–	12000	A	12000	–	–	8
9	SITE 354,355	150–2	12000	B	12000	150–2	SITE 356,357	10
11	–	–	12000	C	12000	–	–	12
13	SITE 358,359	150–2	12000	A	12000	150–2	SITE 360,361	14
15	–	–	12000	B	12000	–	–	16
17	SITE 362,363	150–2	12000	C	12000	150–2	SITE 364,365	18
19	–	–	12000	A	12000	–	–	20
21	SITE 366,367	150–2	12000	B	12000	150–2	SITE 368,369	22
23	–	–	12000	C	12000	–	–	24
25	SITE 370,371	150–2	12000	A	12000	150–2	SITE 372,373	26
27	–	–	12000	B	12000	–	–	28
29	SITE 380,381	150–2	12000	C	12000	150–2	SITE 382,383	30
31	–	–	12000	A	12000	–	–	32
33	SITE 384,385	150–2	12000	B	12000	150–2	SITE 386,387	34
35	–	–	12000	C	12000	–	–	36
37	SITE 388,389	150–2	12000	A	12000	150–2	SITE 390,391	38
39	–	–	12000	B	12000	–	–	40
41	SITE 392,393	150–2	12000	C	0	20–2	SPARE	42
43	–	–	12000	A	0	–	–	44
45	SPARE	20–2	0	B	0	20–2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P11

VOLTS 120/208 | MAIN CAPACITY 1200 A MCB | A WATTS 170000
PHASE 3 | BUSS MATERIAL | B WATTS 168360
WIRE 4 | MOUNTING | C WATTS 168998

TOTAL WATTS 507358
SIMULTANEOUS LOAD WATTS 253120

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 394,395	150–2	12000	A	12000	150–2	SITE 396,397	2
3	–	–	12000	B	12000	–	–	4
5	SITE 398,399	150–2	12000	C	12000	150–2	SITE 400,401	6
7	–	–	12000	A	12000	–	–	8
9	SITE 402,403	150–2	12000	B	12000	150–2	SITE 404,405	10
11	–	–	12000	C	12000	–	–	12
13	SITE 406,407	150–2	12000	A	12000	150–2	SITE 408,409	14
15	–	–	12000	B	12000	–	–	16
17	SITE 410,411	150–2	12000	C	12000	150–2	SITE 412,413	18
19	–	–	12000	A	12000	–	–	20
21	SITE 414,415	150–2	12000	B	12000	150–2	SITE 416,417	22
23	–	–	12000	C	12000	–	–	24
25	SITE 418,419	150–2	12000	A	12000	150–2	SITE 420,421	26
27	–	–	12000	B	12000	–	–	28
29	SITE 422,423	150–2	12000	C	12000	150–2	SITE 424,425	30
31	–	–	12000	A	12000	–	–	32
33	SITE 426,427	150–2	12000	B	12000	150–2	SITE 428,429	34
35	–	–	12000	C	12000	–	–	36
37	COMFORT STATION #1	400–3	26000	A	0	20–2	SPARE	38
39	–	–	24360	B	0	–	–	40
41	–	–	24998	C	0	20–2	SPARE	42
43	SPARE	20–2	0	A	0	–	–	44
45	–	–	0	B	0	20–2	SPARE	46
47	SPARE	20–2	0	C	0	–	–	48
49	–	–	0	A	0	20–2	SPARE	50
51	SPARE	20–1	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

P12A

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 96000
PHASE 3 | BUSS MATERIAL | B WATTS 96000
WIRE 4 | MOUNTING | C WATTS 96000

TOTAL WATTS 288000
SIMULTANEOUS LOAD WATTS 123840

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 430,431	150–2	12000	A	12000	150–2	SITE 432,433	2
3	–	–	12000	B	12000	–	–	4
5	SITE 438,439	150–2	12000	C	12000	150–2	SITE 440,441	6
7	–	–	12000	A	12000	–	–	8
9	SITE 446,447	150–2	12000	B	12000	150–2	SITE 448,449	10
11	–	–	12000	C	12000	–	–	12
13	SITE 454,455	150–2	12000	A	12000	150–2	SITE 456,457	14
15	–	–	12000	B	12000	–	–	16
17	SITE 462,463	150–2	12000	C	12000	150–2	SITE 464,465	18
19	–	–	12000	A	12000	–	–	20
21	SITE 470,471	150–2	12000	B	12000	150–2	SITE 472,473	22
23	–	–	12000	C	12000	–	–	24
25	SPARE	20–2	0	A	0	20–2	SPARE	26
27	–	–	0	B	0	–	–	28
29	SPARE	20–2	0	C	0	20–2	SPARE	30
31	–	–	0	A	0	–	–	32
33	SPARE	20–2	0	B	0	20–2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20–2	0	A	0	20–2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20–1	0	C	0	20–1	SPARE	42

P12B

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 96000
PHASE 3 | BUSS MATERIAL | B WATTS 96000
WIRE 4 | MOUNTING | C WATTS 96000

TOTAL WATTS 288000
SIMULTANEOUS LOAD WATTS 123840

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 434,435	150–2	12000	A	12000	150–2	SITE 436,437	2
3	–	–	12000	B	12000	–	–	4
5	SITE 442,443	150–2	12000	C	12000	150–2	SITE 444,445	6
7	–	–	12000	A	12000	–	–	8
9	SITE 450,451	150–2	12000	B	12000	150–2	SITE 452,453	10
11	–	–	12000	C	12000	–	–	12
13	SITE 458,459	150–2	12000	A	12000	150–2	SITE 460,461	14
15	–	–	12000	B	12000	–	–	16
17	SITE 466,467	150–2	12000	C	12000	150–2	SITE 468,469	18
19	–	–	12000	A	12000	–	–	20
21	SITE 474,475	150–2	12000	B	12000	150–2	SITE 476,477	22
23	–	–	12000	C	12000	–	–	24
25	SPARE	20–2	0	A	0	20–2	SPARE	26
27	–	–	0	B	0	–	–	28
29	SPARE	20–2	0	C	0	20–2	SPARE	30
31	–	–	0	A	0	–	–	32
33	SPARE	20–2	0	B	0	20–2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20–2	0	A	0	20–2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20–1	0	C	0	20–1	SPARE	42

P13

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 150000
PHASE 3 | BUSS MATERIAL | B WATTS 150000
WIRE 4 | MOUNTING | C WATTS 144000

TOTAL WATTS 444000
SIMULTANEOUS LOAD WATTS 182040

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 498,499	150–2	12000	A	12000	150–2	SITE 500,501	2
3	–	–	12000	B	12000	–	–	4
5	SITE 502,503	150–2	12000	C	12000	150–2	SITE 504,505	6
7	–	–	12000	A	12000	–	–	8
9	SITE 506,507	150–2	12000	B	12000	150–2	SITE 508,509	10
11	–	–	12000	C	12000	–	–	12
13	SITE 510,511	150–2	12000	A	12000	150–2	SITE 602,603	14
15	–	–	12000	B	12000	–	–	16
17	SITE 604,605	150–2	12000	C	12000	150–2	SITE 606,607	18
19	–	–	12000	A	12000	–	–	20
21	SITE 608,609	150–2	12000	B	12000	150–2	SITE 610,611	22
23	–	–	12000	C	12000	–	–	24
25	SITE 612,613	150–2	12000	A	6000	80–2	SITE 614	26
27	–	–	12000	B	6000	–	–	28
29	SITE 615,616	150–2	12000	C	12000	150–2	SITE 617,618	30
31	–	–	12000	A	12000	–	–	32
33	SITE 619,620	150–2	12000	B	12000	150–2	SITE 642,643	34
35	–	–	12000	C	12000	–	–	36
37	SITE 644,645	150–2	12000	A	0	20–2	SPARE	38
39	–	–	12000	B	0	–	–	40
41	SPARE	20–2	0	C	0	20–2	SPARE	42
43	–	–	0	A	0	–	–	44
45	SPARE	20–2	0	B	0	20–2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20–2	0	A	0	20–2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20–1	0	C	0	20–1	SPARE	54

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

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FREDDIE L.
MALICOAT
NUMBER
E-16897
REGISTERED PROFESSIONAL ENGINEER
09-19-25

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DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 09/19/2025

CAD DWG FILE: E-PLN-10
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:

ELECTRIC
PANEL
SCHEDULES

SHEET NUMBER:

E10

56 OF 59
09/19/2025

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P14A

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 96000
PHASE 3 | BUSS MATERIAL | B WATTS 96000
WIRE 4 | MOUNTING | C WATTS 96000

TOTAL WATTS 288000
SIMULTANEOUS LOAD WATTS 123840

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 512,513	150-2	12000	A	12000	150-2	SITE 516,517	2
3	–	–	12000	B	12000	–	–	4
5	SITE 520,521	150-2	12000	C	12000	150-2	SITE 524,525	6
7	–	–	12000	A	12000	–	–	8
9	SITE 528,529	150-2	12000	B	12000	150-2	SITE 532,533	10
11	–	–	12000	C	12000	–	–	12
13	SITE 536,537	150-2	12000	A	12000	150-2	SITE 540,541	14
15	–	–	12000	B	12000	–	–	16
17	SITE 544,545	150-2	12000	C	12000	150-2	SITE 548,549	18
19	–	–	12000	A	12000	–	–	20
21	SITE 552,553	150-2	12000	B	12000	150-2	SITE 556,557	22
23	–	–	12000	C	12000	–	–	24
25	SPARE	20-2	0	A	0	20-2	SPARE	26
27	–	–	0	B	0	–	–	28
29	SPARE	20-2	0	C	0	20-2	SPARE	30
31	–	–	0	A	0	–	–	32
33	SPARE	20-2	0	B	0	20-2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20-2	0	A	0	20-2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20-1	0	C	0	20-1	SPARE	42

P14B

VOLTS 120/208 | MAIN CAPACITY 600 A MCB | A WATTS 96000
PHASE 3 | BUSS MATERIAL | B WATTS 84000
WIRE 4 | MOUNTING | C WATTS 84000

TOTAL WATTS 264000
SIMULTANEOUS LOAD WATTS 123840

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 514,515	150-2	12000	A	12000	150-2	SITE 518,519	2
3	–	–	12000	B	12000	–	–	4
5	SITE 522,523	150-2	12000	C	12000	150-2	SITE 526,527	6
7	–	–	12000	A	12000	–	–	8
9	SITE 530,531	150-2	12000	B	12000	150-2	SITE 534,535	10
11	–	–	12000	C	12000	–	–	12
13	SITE 538,539	150-2	12000	A	12000	150-2	SITE 542,543	14
15	–	–	12000	B	12000	–	–	16
17	SITE 546,547	150-2	12000	C	12000	150-2	SITE 550,551	18
19	–	–	12000	A	12000	–	–	20
21	SITE 554,555	150-2	12000	B	0	20-2	SPARE	22
23	–	–	12000	C	0	–	–	24
25	SPARE	20-2	0	A	0	20-2	SPARE	26
27	–	–	0	B	0	–	–	28
29	SPARE	20-2	0	C	0	20-2	SPARE	30
31	–	–	0	A	0	–	–	32
33	SPARE	20-2	0	B	0	20-2	SPARE	34
35	–	–	0	C	0	–	–	36
37	SPARE	20-2	0	A	0	20-2	SPARE	38
39	–	–	0	B	0	–	–	40
41	SPARE	20-1	0	C	0	20-1	SPARE	42

P15

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 186000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 174000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 558	80-2	6000	A	12000	150-2	SITE 559,560	2
3	–	–	6000	B	12000	–	–	4
5	SITE 561,562	150-2	12000	C	12000	150-2	SITE 563,564	6
7	–	–	12000	A	12000	–	–	8
9	SITE 565,566	150-2	12000	B	12000	150-2	SITE 567,568	10
11	–	–	12000	C	12000	–	–	12
13	SITE 569,570	150-2	12000	A	12000	150-2	SITE 571,572	14
15	–	–	12000	B	12000	–	–	16
17	SITE 573,574	150-2	12000	C	12000	150-2	SITE 575,576	18
19	–	–	12000	A	12000	–	–	20
21	SITE 577,578	150-2	12000	B	12000	150-2	SITE 579,580	22
23	–	–	12000	C	12000	–	–	24
25	SITE 581,582	150-2	12000	A	12000	150-2	SITE 583,584	26
27	–	–	12000	B	12000	–	–	28
29	SITE 585,586	150-2	12000	C	12000	150-2	SITE 587,588	30
31	–	–	12000	A	12000	–	–	32
33	SITE 589,590	150-2	12000	B	12000	150-2	SITE 591,592	34
35	–	–	12000	C	12000	–	–	36
37	SITE 593,594	150-2	12000	A	12000	150-2	SITE 595,596	38
39	–	–	12000	B	12000	–	–	40
41	SITE 597,598	150-2	12000	C	12000	150-2	SITE 599,600	42
43	–	–	12000	A	12000	–	–	44
45	SITE 601	80-2	6000	B	0	20-2	SPARE	46
47	–	–	6000	C	0	–	–	48
49	SPARE	20-2	0	A	0	20-2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20-1	0	C	0	20-1	SPARE	54

P16

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 186000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 174000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 621,622	150-2	12000	A	12000	150-2	SITE 623,624	2
3	–	–	12000	B	12000	–	–	4
5	SITE 625,626	150-2	12000	C	12000	150-2	SITE 627,628	6
7	–	–	12000	A	12000	–	–	8
9	SITE 629,630	150-2	12000	B	12000	150-2	SITE 631,632	10
11	–	–	12000	C	12000	–	–	12
13	SITE 633	80-2	6000	A	12000	150-2	SITE 634,635	14
15	–	–	6000	B	12000	–	–	16
17	SITE 636,637	150-2	12000	C	12000	150-2	SITE 638,639	18
19	–	–	12000	A	12000	–	–	20
21	SITE 640,641	150-2	12000	B	12000	150-2	SITE 646,647	22
23	–	–	12000	C	12000	–	–	24
25	SITE 648,649	150-2	12000	A	12000	150-2	SITE 650,651	26
27	–	–	12000	B	12000	–	–	28
29	SITE 652,653	150-2	12000	C	12000	150-2	SITE 654,655	30
31	–	–	12000	A	12000	–	–	32
33	SITE 656,657	150-2	12000	B	6000	80-2	SITE 658	34
35	–	–	12000	C	6000	–	–	36
37	SITE 659,660	150-2	12000	A	12000	150-2	SITE 661,662	38
39	–	–	12000	B	12000	–	–	40
41	SITE 663,664	150-2	12000	C	12000	150-2	SITE 665,666	42
43	–	–	12000	A	12000	–	–	44
45	SITE 667,668	150-2	12000	B	0	20-2	SPARE	46
47	–	–	12000	C	0	–	–	48
49	SPARE	20-2	0	A	0	20-2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20-1	0	C	0	20-1	SPARE	54

P17

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 162000
PHASE 3 | BUSS MATERIAL | B WATTS 162000
WIRE 4 | MOUNTING | C WATTS 144000

TOTAL WATTS 468000
SIMULTANEOUS LOAD WATTS 191880

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 669,670	150-2	12000	A	12000	150-2	SITE 671,672	2
3	–	–	12000	B	12000	–	–	4
5	SITE 673,674	150-2	12000	C	12000	150-2	SITE 675,676	6
7	–	–	12000	A	12000	–	–	8
9	SITE 677,678	150-2	12000	B	12000	150-2	SITE 679,680	10
11	–	–	12000	C	12000	–	–	12
13	SITE 725	80-2	6000	A	12000	150-2	SITE 726,727	14
15	–	–	6000	B	12000	–	–	16
17	SITE 728,729	150-2	12000	C	12000	150-2	SITE 730,731	18
19	–	–	12000	A	12000	–	–	20
21	SITE 732,733	150-2	12000	B	12000	150-2	SITE 734,735	22
23	–	–	12000	C	12000	–	–	24
25	SITE 736,737	150-2	12000	A	12000	150-2	SITE 738,739	26
27	–	–	12000	B	12000	–	–	28
29	SITE 740,741	150-2	12000	C	12000	150-2	SITE 742,743	30
31	–	–	12000	A	12000	–	–	32
33	SITE 744,745	150-2	12000	B	12000	150-2	SITE 746,747	34
35	–	–	12000	C	12000	–	–	36
37	SITE 748,749	150-2	12000	A	12000	150-2	SITE 750,751	38
39	–	–	12000	B	12000	–	–	40
41	SPARE	20-2	0	C	0	20-2	SPARE	42
43	–	–	0	A	0	–	–	44
45	SPARE	20-2	0	B	0	20-2	SPARE	46
47	–	–	0	C	0	–	–	48
49	SPARE	20-2	0	A	0	20-2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20-1	0	C	0	20-1	SPARE	54

P18

VOLTS 120/208 | MAIN CAPACITY 800 A MCB | A WATTS 186000
PHASE 3 | BUSS MATERIAL | B WATTS 168000
WIRE 4 | MOUNTING | C WATTS 174000

TOTAL WATTS 528000
SIMULTANEOUS LOAD WATTS 216480

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	SITE 681,682	150-2	12000	A	12000	150-2	SITE 683,684	2
3	–	–	12000	B	12000	–	–	4
5	SITE 685,686	150-2	12000	C	12000	150-2	SITE 687,688	6
7	–	–	12000	A	12000	–	–	8
9	SITE 689,690	150-2	12000	B	12000	150-2	SITE 691,692	10
11	–	–	12000	C	12000	–	–	12
13	SITE 693,694	150-2	12000	A	12000	150-2	SITE 695,696	14
15	–	–	12000	B	12000	–	–	16
17	SITE 697,698	150-2	12000	C	12000	150-2	SITE 699,700	18
19	–	–	12000	A	12000	–	–	20
21	SITE 701,702	150-2	12000	B	12000	150-2	SITE 703,704	22
23	–	–	12000	C	12000	–	–	24
25	SITE 705	80-2	6000	A	12000	150-2	SITE 706,707	26
27	–	–	6000	B	12000	–	–	28
29	SITE 708,709	150-2	12000	C	12000	150-2	SITE 710,711	30
31	–	–	12000	A	12000	–	–	32
33	SITE 712,713	150-2	12000	B	12000	150-2	SITE 714,715	34
35	–	–	12000	C	12000	–	–	36
37	SITE 716,717	150-2	12000	A	12000	150-2	SITE 718,719	38
39	–	–	12000	B	12000	–	–	40
41	SITE 720,721	150-2	12000	C	12000	150-2	SITE 722,723	42
43	–	–	12000	A	12000	–	–	44
45	SITE 724	80-2	6000	B	0	20-2	SPARE	46
47	–	–	6000	C	0	–	–	48
49	SPARE	20-2	0	A	0	20-2	SPARE	50
51	–	–	0	B	0	–	–	52
53	SPARE	20-1	0	C	0	20-1	SPARE	54

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NEW CAMPGROUND

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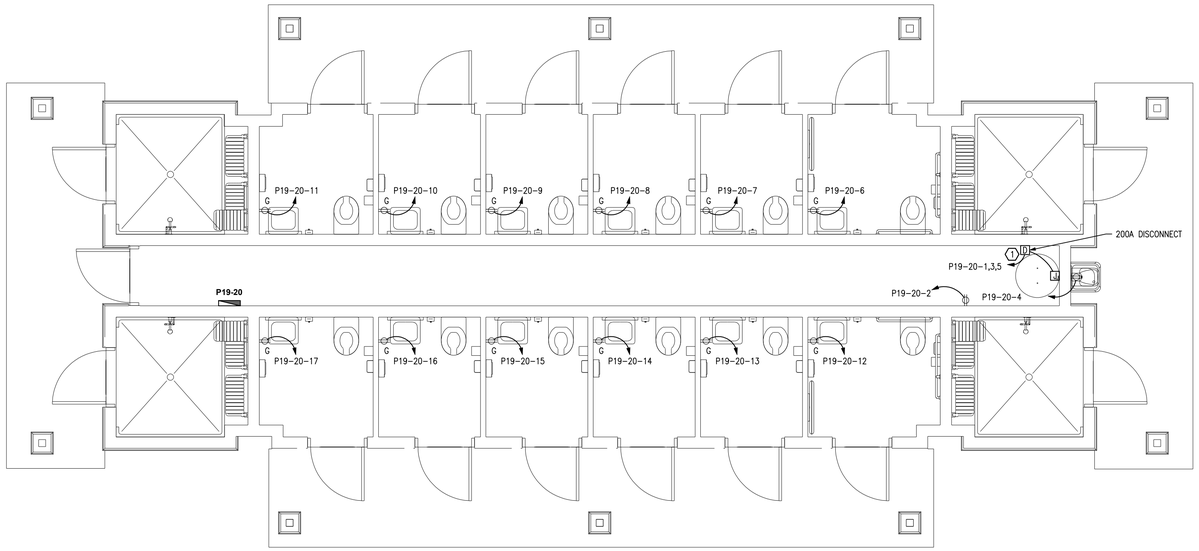
PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

REVISION: 1
DATE: 09/05/2025
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 09/19/2025

CAD DWG FILE: E-PLN-11
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC
PANEL
SCHEDULES

SHEET NUMBER:
E11



1 E12 **COMFORT STATION POWER PLAN**

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

GENERAL NOTES:

1. VERIFY PLUMBING, HVAC, POWER, AND LIGHTING REQUIREMENTS FOR OWNER'S SPECIFIC EQUIPMENT PRIOR TO ROUGH-IN.
2. COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL MAINTAIN FIRE RATING OF ANY PENETRATION AND SHALL SEAL ANY PENETRATION IN A FLOOR, CEILING, OR EXTERIOR WALL.
4. VERIFY RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
5. RECEPTACLES SHALL BE MOUNTED AT 18" TO BOTTOM ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE ON PLANS.

KEYED NOTES:

(1) 4#3/0, 1#6G (200A-3P W/NEUTRAL BREAKER)

P19-20

VOLTS 120/208 — MAIN CAPACITY 400 A MCB
PHASE 3 — BUSS MATERIAL
WIRE 4 — MOUNTING

A WATTS	26000
B WATTS	24360
C WATTS	24998
TOTAL WATTS	75358

CIRC	LOCATION / DESCRIPTION	BRKR	WATTS	ø	WATTS	BRKR	LOCATION / DESCRIPTION	CIRC
1	WH1	200-3	18000	A	1500	20-1	HWRP	2
3	--	--	18000	B	360	20-1	EWC	4
5	--	--	18000	C	1500	20-1	RESTROOM/RECEPTACLES	6
7	RESTROOM/RECEPTACLES	20-1	1500	A	1500	20-1	RESTROOM/RECEPTACLES	8
9	RESTROOM/RECEPTACLES	20-1	1500	B	1500	20-1	RESTROOM/RECEPTACLES	10
11	RESTROOM/RECEPTACLES	20-1	1500	C	1500	20-1	RESTROOM/RECEPTACLES	12
13	RESTROOM/RECEPTACLES	20-1	1500	A	1500	20-1	RESTROOM/RECEPTACLES	14
15	RESTROOM/RECEPTACLES	20-1	1500	B	1500	20-1	RESTROOM/RECEPTACLES	16
17	RESTROOM/RECEPTACLES	20-1	1500	C	998	20-1	INTERIOR LIGHTS	18
19	EXTERIOR LIGHTS	20-1	500	A	0	20-1	SPARE	20
21	SPARE	20-1	0	B	0	20-1	SPARE	22
23	SPARE	20-1	0	C	0	20-1	SPARE	24
25	SPARE	20-1	0	A	0	20-1	SPARE	26
27	SPARE	20-1	0	B	0	20-1	SPARE	28
29	SPARE	20-1	0	C	0	20-1	SPARE	30
31	SPARE	20-1	0	A	0	20-1	SPARE	32
33	SPARE	20-1	0	B	0	20-1	SPARE	34
35	SPARE	20-1	0	C	0	20-1	SPARE	36
37	SPARE	20-1	0	A	0	20-1	SPARE	38
39	SPARE	20-1	0	B	0	20-1	SPARE	40
41	SPARE	20-1	0	C	0	20-1	SPARE	42

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI · FREDDIE L. MALICOAT · NUMBER E-16897 · REGISTERED PROFESSIONAL ENGINEER

09-04-25

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
ASSET # 3511501153

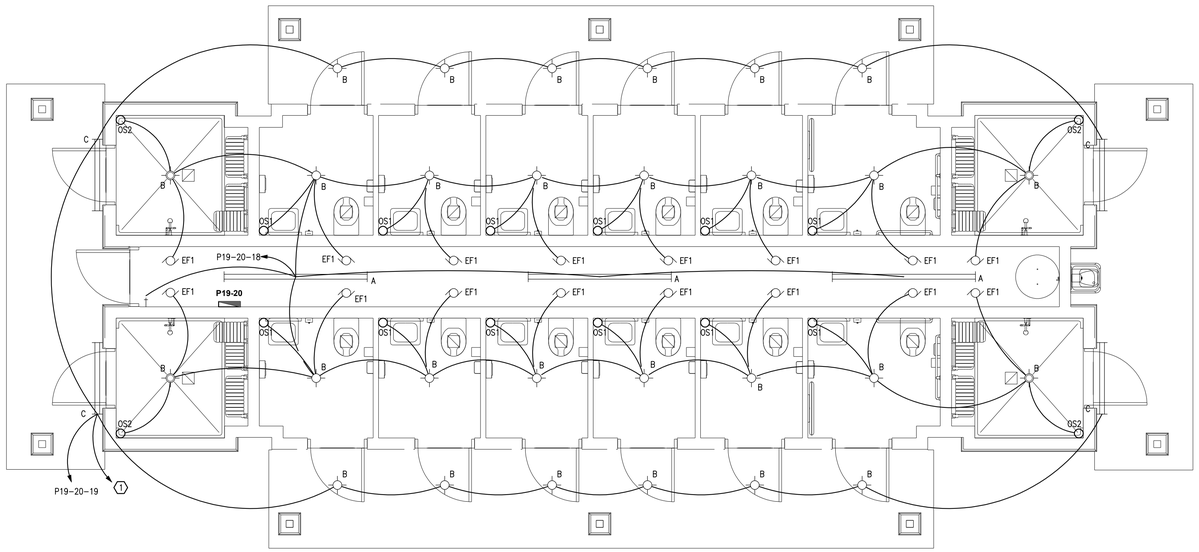
REVISION: 1
DATE: 09/05/2025
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ISSUE DATE: 09/19/2025

CAD DWG FILE: E-PLN-12
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
COMFORT STATION POWER PLAN

SHEET NUMBER:
E12

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1 / E13 **COMFORT STATION LIGTHING PLAN**

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

GENERAL NOTES:

1. VERIFY PLUMBING, HVAC, POWER, AND LIGHTING REQUIREMENTS FOR OWNER'S SPECIFIC EQUIPMENT PRIOR TO ROUGH-IN.
2. COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL MAINTAIN FIRE RATING OF ANY PENETRATION AND SHALL SEAL ANY PENETRATION IN A FLOOR, CEILING, OR EXTERIOR WALL.
4. VERIFY RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
5. LIGHT SWITCHES SHALL BE MOUNTED AT 42" TO CENTER ABOVE FINISHED FLOOR.

KEYED NOTES:

(1) CONTROLLED VIA INTERMATIC ST01 SERIES TIMER AND K4221C PHOTOCONTROL.

LIGHTING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER AND MODEL NUMBER	TYPE	LAMPS		MOUNTING	REMARKS
				#	SIZE		
A	8' STRIP	WILLIAMS 75R-8-L100/840-DIM-UNV	LED	1	66	SURFACE	1
B	CAN	LIFESHIELD LTR-6RD-H-ML20L-DM1-IC-BAA/LTR-6RD-T-ML40K8MD-SS-BAA/LTR-6RD-CEVR-WTAM-BAA	LED	1	23	RECESSED	1,2,3,4
C	4' STRIP	LIFESHIELD PVNT-1-4-35-40K8-NDM-UNV-C-WHT-TR	LED	1	35	SURFACE	1,2,3
OS1	CLG SENSOR	CEILING OCCUPANCY SENSOR BY CONTRACTOR	–	0	0	SURFACE	
OS2	CLG SENSOR	CEILING OCCUPANCY SENSOR BY CONTRACTOR	–	0	0	SURFACE	3

VERIFY COLOR AND MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.
ALL FIXTURES TO BE "BUY AMERICA ACT" COMPLIANT.
1. OR APPROVED EQUAL.
2. FIXTURES LOCATED OUTSIDE TO BE CONTROLLED VIA INTERMATIC ST01 SERIES TIMER AND K4221C PHOTOCONTROL.
3. WET LOCATION APPROVED.
4. IC RATED

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