

GENERAL NOTES

- ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- ANY DISCREPANCIES BETWEEN SPECIFICATIONS, DRAWINGS, AND/OR SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL AREAS DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE LOCATION OF ALL PROPOSED IMPROVEMENTS, INCLUDING ROUGH AND FINISHED ELEVATIONS AND ALL OTHER PROPOSED IMPROVEMENTS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THAT ALL APPLICABLE LOCAL, STATE, & FEDERAL CODES ARE FOLLOWED. ALL APPLICABLE LOCAL AND STATE NOTIFICATIONS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION, INCLUDING ALL NECESSARY UTILITY CONNECTION PERMITS FROM THE RESPECTIVE UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND SERVICES REQUIRED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL REFERENCE POINTS, BENCHMARKS, MONUMENTS, STAKES, AND PROPERTY CORNERS DURING CONSTRUCTION. REPLACEMENT OF LOST REFERENCE POINTS SHALL BE AT THE CONTRACTORS EXPENSE.
- REMOVE ALL STRUCTURES, FOUNDATIONS, WALLS, PAVEMENTS, AND ALL OTHER ITEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- REFERENCES TO "STANDARD SPECIFICATIONS" SHALL MEAN THE MISSOURI DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", LATEST ADDITION.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT OWNER APPROVAL.
- SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, AND THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES. CONTROL DUST IN AND AROUND ALL WORK AND STAGING AREAS.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- IF A DISCREPANCY IN THE SPOT ELEVATIONS IS NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTING. IF THERE IS A DISCREPANCY BETWEEN THE SPOT ELEVATIONS AND CONTOURS, THE CONTOURS SHALL GOVERN.
- IF SOIL OR GROUNDWATER IS ENCOUNTERED WHICH EMITS A PETROLEUM ODOR OR IS DISCOLORED THE CONTRACTOR SHALL STOP EXCAVATION AND NOTIFY THE OWNER IMMEDIATELY. THE OWNER WILL COORDINATE ENVIRONMENTAL EFFORTS TO HANDLE THE IMPACTED SOIL OR GROUNDWATER IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO ENSURE PUBLIC AND EMPLOYEE SAFETY.

GRADING NOTES

- TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6 INCHES WITHIN THE GRADING LIMITS AND STOCKPILED ON SITE FOR USE IN FINAL GRADING (COORDINATE WITH OWNER). IF ACCEPTABLE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE IT TO A DEPTH OF 6 INCHES.
- TOPSOIL SHALL BE LOAMY IN NATURE, FREE FROM HARD CLOUDS, STIFF CLAY, SOD, STONES, ROOTS, STICKS, AND OTHER DEBRIS OVER 1 INCH IN SIZE. TOPSOIL SHALL BE FREE OF TOXIC MATERIALS AND SHALL HAVE A pH RANGE BETWEEN 5.5 AND 7.0.
- ALL EXCESS MATERIALS NOT USED FOR CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
- PROPOSED CONTOURS ARE INTENDED TO PROVIDE A MIN. 1% SLOPE IN PAVEMENT AREAS AND 2% IN TURFED AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING A SMOOTH UNIFORM DRAINING SURFACE THAT DOES NOT CREATE PONDING WATER OR SHARP BREAKS. CONTOURS OR ELEVATIONS THAT WILL NOT PROVIDE SUCH SURFACE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT IMMEDIATELY.
- FINAL ELEVATIONS INDICATED ARE THE FINISHED SURFACE ELEVATIONS, WHETHER GRASS, CONCRETE, PAVEMENT, OR MULCH. THE CONTRACTOR SHALL COORDINATE SUBGRADE ELEVATIONS TO ALLOW FOR PAVEMENT, CONCRETE OR MULCH DEPTHS.
- ALL DISTURBED AREAS NOT WITHIN PAVEMENT & LANDSCAPE AREAS SHALL BE SEEDED PER THE SPECIFICATIONS. THE AREAS INDICATED TO BE SEEDED ON THIS PLAN ARE ESTIMATED DISTURBED AREAS. DISTURBED AREAS OUTSIDE OF THOSE INDICATED SHALL BE SEEDED REGARDLESS OF THE LIMITS INDICATED.
- SLOPES 4:1 AND STEEPER SHALL RECEIVE A TEMPORARY EROSION CONTROL BLANKET. PROVIDING PROTECTION FOR UP TO 12 MONTHS IN ACCORDANCE WITH SECTION 806 OF THE MoDOT STANDARD SPECIFICATIONS.

EROSION CONTROL NOTES

- EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE DETAILS IN THESE PLANS, AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARDS AND REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.
- THE EROSION CONTROL SHOWN ON THIS SET OF PLANS SHALL BE CONSIDERED THE MINIMUM ACCEPTABLE FOR THIS PROJECT. THERE MAY BE ADDITIONAL EROSION CONTROL REQUIRED DUE TO THE VARIOUS CONSTRUCTION TECHNIQUES, WHICH MAY BE USED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AND MAINTAINING ALL THE RUNOFF FROM THE SITE, IN A MANNER WHICH KEEPS ALL SILT ON SITE.
- A LAND DISTURBANCE PERMIT IS CURRENTLY IN PLACE FOR THIS SITE (PERMIT #MOR100038). THE CONTRACTOR WILL BE REQUIRED TO FOLLOW THE REQUIREMENTS OF THE PERMIT AND STORM WATER POLLUTION PREVENTION PLAN IN THE CONTRACT DOCUMENTS.
- ALL INLET PROTECTION AND TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF PAVING OPERATIONS AND FINAL STABILIZATION OF LANDSCAPED AND SEED AREAS.

PAVEMENT NOTES

- PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
- PROOF-ROLL SUBGRADE WITH A MINIMUM 25 TON G.V.W. TRUCK TO IDENTIFY AREAS OF SOFT OR UNSTABLE SUBGRADE. REMOVE AND REPLACE UNSTABLE AREAS WITH SUITABLE COMPACTED MATERIALS.
- PAVEMENT MARKING SHALL NOT BEGIN UNTIL PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEEP AS NECESSARY TO REMOVE LOOSE MATERIALS AND DIRT; AND NOT BEFORE ADEQUATE CURING TIME HAS BEEN OBTAINED ON THE PAVEMENT.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, EDGE OF BUILDING, OR PROPERTY LINES UNLESS OTHERWISE NOTED. ALL RADII ARE TO EDGE OF PAVEMENT.

UTILITY NOTES

- THE LOCATION OF EXISTING UTILITIES IN CONSTRUCTION AREAS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY CONTACTING THE MISSOURI ONE CALL SYSTEM, INC. OR THE INDIVIDUAL UTILITIES NOT PARTICIPATING IN THIS SYSTEM. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. ANY REPAIR OR RELOCATION REQUIRED, AS A RESULT OF DAMAGE BY CONSTRUCTION ACTIVITIES SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PAY UTILITY PERMIT AND/OR INSPECTION FEES.
- UTILITY TRENCHES WITHIN PAVEMENT AREAS SHALL BE BACKFILLED WITH APPROVED COMPACTED GRANULAR BACKFILL.
- ALL ELECTRIC SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, CURRENT VERSION.
- ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
- THE DRAWINGS INDICATE THE BEST KNOWLEDGE OF THE OWNER AND ENGINEER/ARCHITECT ON THE GENERAL LOCATION AND NATURE OF THE EXISTING AND OR PROPOSED UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION. EXPLORATORY EXCAVATIONS AT THE SITE TO DETERMINE INSITU LOCATIONS WERE NOT CONDUCTED. QUALITY LEVEL C IN ACCORDANCE WITH C/ASCE 38-02, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA, WAS UTILIZED. REGARDLESS OF THE LEVEL OF INVESTIGATION, THE UTILITIES SHOWN SHOULD NOT BE CONSIDERED A WARRANTY OR GUARANTEE OF ACTUAL PRESENCE OR LOCATION AND THE CONTRACTOR REMAINS RESPONSIBLE FOR THE LOCATION, VERIFICATION, AND PROPER NOTIFICATION OF POTENTIAL UTILITIES.

QUALITY LEVELS:

QUALITY LEVEL A - PROVIDES THE HIGHEST LEVEL OF ACCURACY. BY LOCATING OR POTHOLING UTILITIES IN ADDITION TO QUALITY LEVELS B, C, AND D TASKS. THE LOCATED UTILITY INFRASTRUCTURE IS SURVEYED AND MAPPED TO DEVELOP PLAN AND PROFILE INFORMATION.

QUALITY LEVEL B - INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND RECORDING THE INFORMATION THROUGH A SURVEY METHOD. IN ADDITION TO QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL C - INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. IN ADDITION TO QUALITY LEVEL D TASKS.

QUALITY LEVEL D - INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS, THAT MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICE MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASE, CONSTRUCTION PLANS, ETC. DATABASES, CONSTRUCTION PLANS, ETC.

CITY OF HALLSVILLE
202 HWY 124 EAST - HALLSVILLE, MO
SITE PLAN REVIEW INFORMATION

PROPERTY OWNERSHIP & ZONING REQUIREMENTS

OWNER NAME:	HALLSVILLE R-IV SCHOOL DISTRICT
PROJECT LOCATION:	421 MO-124 E, HALLSVILLE, MO.
TELEPHONE:	(573) 696-5512
OWNER CONTACT:	JOHN DOWNS, SUPERINTENDENT
OWNER ADDRESS:	421 MO-124 E, HALLSVILLE, MO.

PROPERTY ZONING CLASSIFICATION: A-1- GENERAL AGRICULTURAL DISTRICT- PUBLIC BUILDINGS AND FACILITIES ARE PERMITTED IN THIS DISTRICT.

MIN. LOT AREA:	NA
FRONT YARD:	NA
SIDE YARDS REQUIRED:	NA
REAR YARD REQUIRED:	NA

BENCHMARKS:

- CHISELED "*" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
- SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
- CHISELED "*" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
- CHISELED "*" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
		LOT LINE
		RIGHT OF WAY LINE
		CENTERLINE
		EASEMENT
		BUILDING SETBACK
		CONSTRUCTION LIMITS
		FENCE LINE
		CHAIN LINK FENCE
		FENCE W/ SQUARE POSTS
		STREAM
		STRUCTURE
		PAVEMENT MARKINGS
		EDGE OF PAVEMENT
		CURB AND GUTTER
		RAILROAD TRACKS
		WATER LINE
		FIRE PROTECTION
		GAS LINE
		OVERHEAD ELECTRIC
		UNDERGROUND ELECTRIC
		OVERHEAD TELEPHONE
		UNDERGROUND TELEPHONE
		CABLE TELEVISION
		FIBER OPTIC
		COMMUNICATION LINE
		STORM SEWER
		SANITARY SEWER
		FORCE MAIN
		COMBINED SEWER
		IRRIGATION SYSTEM
		MAST ARM SIGNAL (3 SIGNALS)
		MAST ARM SIGNALS (2 SIGNALS)
		UTILITY TRAFFIC SIGN
		SIGN
		MANHOLE
		STORM WATER INLET
		CATCH BASIN
		CLEANOUT
		CULVERT
		BOX CULVERT
		WATER VALVE
		FIRE HYDRANT
		POST INDICATOR VALVE
		WATER METER
		GAS VALVE
		GAS METER
		TELEPHONE PEDESTAL
		CABLE TV PEDESTAL
		ELECTRIC METER
		UTILITY POLE
		LIGHT STANDARD
		LIGHT POLE
		GUY WIRE
		SUMMIT / HIGH POINT
		CONTOURS
		INDEX CONTOURS
		DIRECTION OF DRAINAGE
		SPOT ELEVATION
		DECIDUOUS SHRUB
		DECIDUOUS TREE
		CONIFEROUS SHRUB
		CONIFEROUS TREE

ABBREVIATIONS

FL	FLOWLINE ELEVATION
TC	TOP OF CURB ELEVATION
GL	GUTTER LINE ELEVATION
TG	TOP OF GRATE ELEVATION
STA	STATION
FES	FLARED END SECTION
SWI	STORM WATER INLET
FFE	FINISH FLOOR ELEVATION
HP	HIGH POINT
LP	LOW POINT
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
DS	DOWNSPOUT

	REBAR SET
	REBAR FOUND
	REBAR "SQUARE"
	STONE
	IRON PIPE
	CHISELED PLUS
	SPIKE
	RIGHT OF WAY MARKER
	RAILROAD SPIKE
	AXLE
	CONCRETE MONUMENT
	MAG NAIL
	SURVEY CONTROL POINT

	A/C UNIT
	AREA DRAIN
	ELECTRIC JUNCTION BOX
	TRANSFORMER
	MAILBOX
	MONITORING WELL
	SPRINKLER
	VENT PIPE
	WARNING POST



NOTE
UTILITY INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR. BEFORE CONSTRUCTION BEGINS THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM, INC. AT 811 OR 1-800-344-7483 AND THE INDIVIDUAL UTILITIES NOT INCLUDED IN THIS SYSTEM FOR THE LOCATION OF ALL EXISTING UTILITIES.

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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR

ISSUED FOR 10/30/2024
DESIGN DEVELOPMENT

HALLSVILLE LOCKER ROOM AND BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255

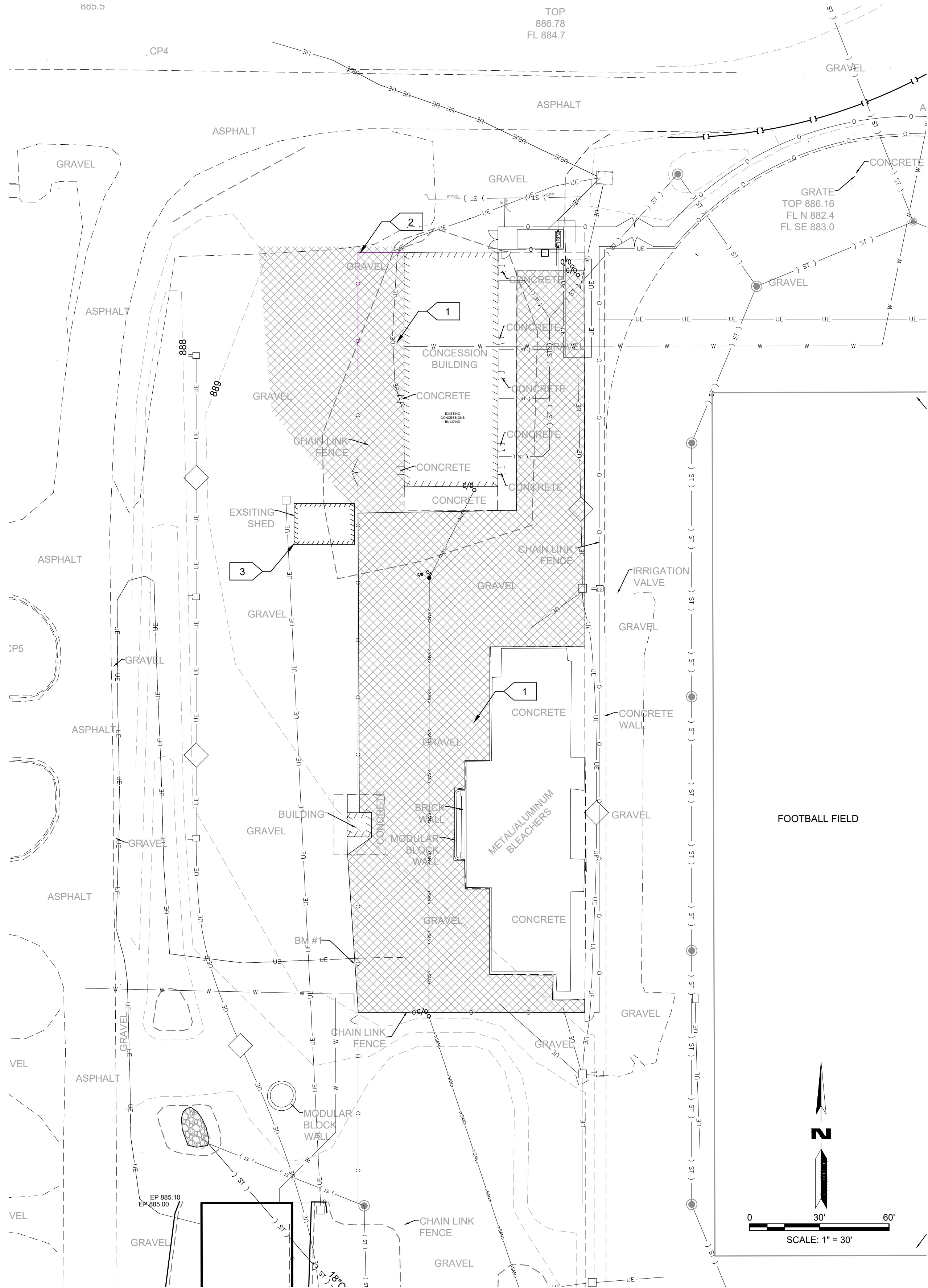
Non-Reduced Sheet Size: 22" x 34"
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED DDR	DRAWN DDR
FIELD RAW/MWJ	FIELD BOOK H14/53
CHECKED DCD	CHECK DATE

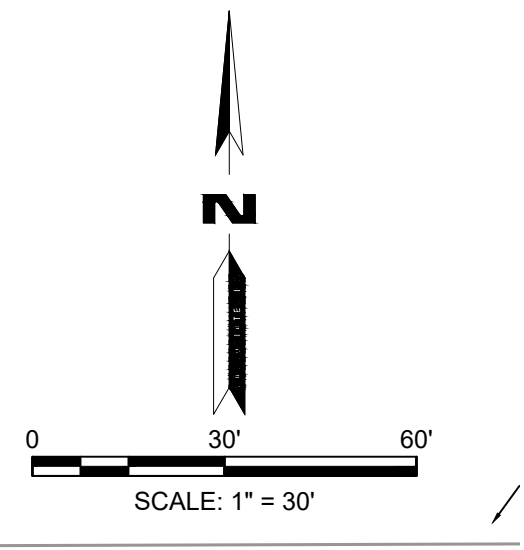
SHEET TITLE

GENERAL NOTES & LEGEND

PROJECT NO. 24-5008
DRAWING ISSUED DATE: 10/30/2024
SHEET
C001



LOCKER ROOM DEMOLITION PLAN
1" = 30'-0"



FOOTBALL FIELD

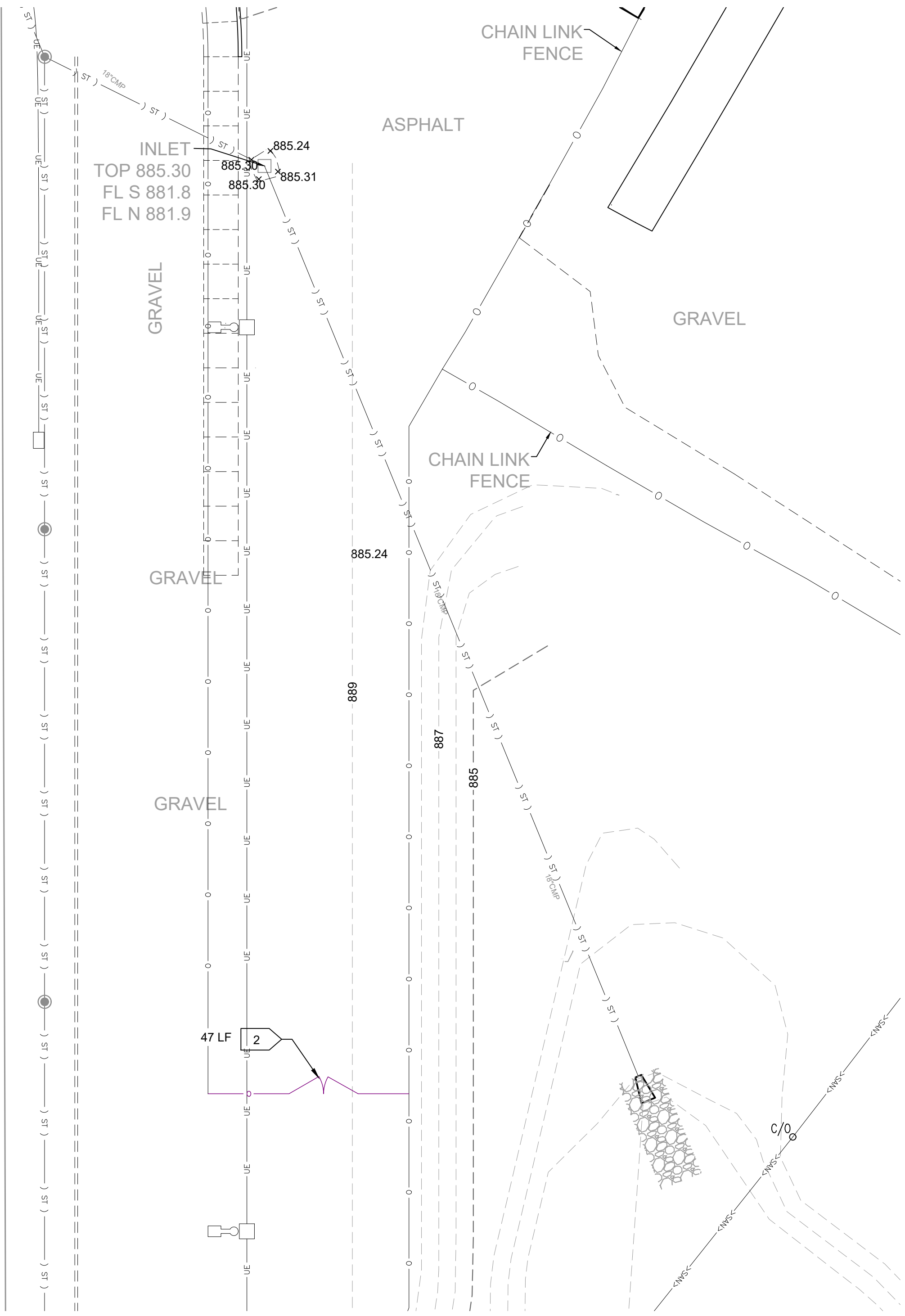
FOOTBALL FIELD

DEMO LEGEND

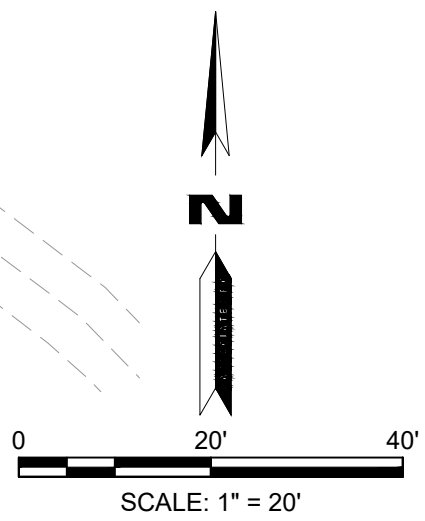


DEMO KEY NOTES

- 1 REMOVE GRAVEL AS NEEDED TO ACHIEVE PROPOSED GRADES. REUSE IF NO ORGANICS PRESENT
- 2 REMOVE FENCE AND SALVAGE FABRIC FOR REUSE
- 3 REMOVE & RELOCATE SHED FOR PAVEMENT INSTALLATION



BLEACHER DEMOLITION PLAN
1" = 20'-0"



DEMO NOTES

1. REMOVE ALL EXISTING PAVEMENTS, STRUCTURES, CURBS, LANDSCAPING AND ALL OTHER EXISTING SITE FEATURES IN CONFLICT WITH PROPOSED IMPROVEMENTS UNLESS CALLED OUT FOR PRESERVATION ON THIS SHEET.
2. UTILITY LOCATIONS INDICATED ON THIS SHEET ARE APPROXIMATIONS AND ARE NOT INTENDED TO SERVE IN LIEU OF LOCATES PROVIDED BY THE RESPECTIVE UTILITY COMPANIES.
3. COORDINATE UTILITY REMOVALS AND/OR RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES AND THE OWNER.
4. DEMOLITIONS SHALL INCLUDE REMOVAL AND PROPER DISPOSAL OF MATERIALS. CONTRACTOR TO PAY ALL PERMIT AND DISPOSAL FEES.

BENCHMARKS:

1. CHISELED "4" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
3. CHISELED "4" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
4. CHISELED "4" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING - ELEV 893.02

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REVISION HISTORY			
MARK	DESCRIPTION	DATE	APPR
	ISSUED FOR	10/30/2024	
	DESIGN DEVELOPMENT		

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**HALLSVILLE LOCKER ROOM AND
BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255**

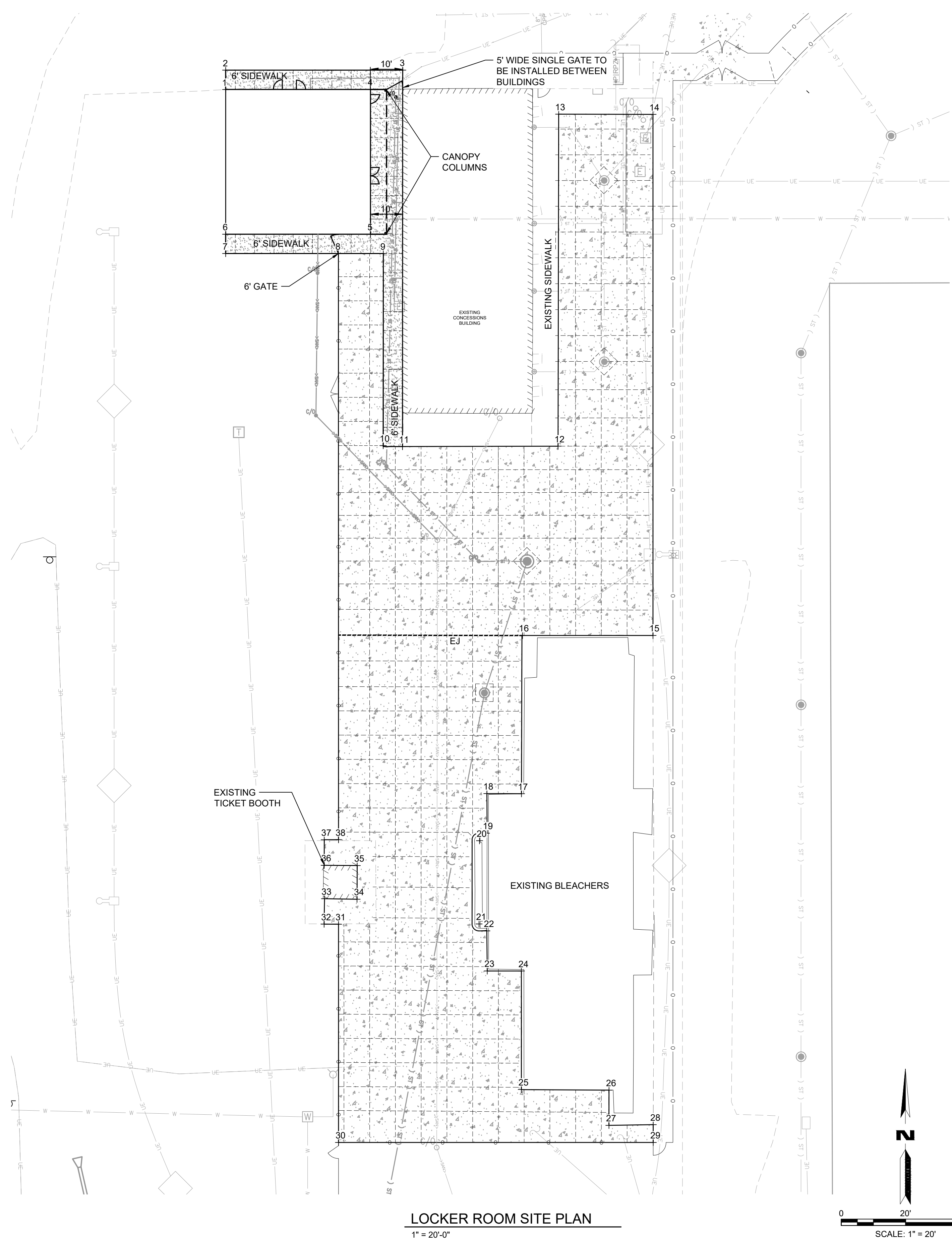
Non-Reduced Sheet Size: 22" x 34"
Full sized plans have been prepared using standard scales.
Reduced size plans may not conform to standard scales.

DESIGNED DDR	DRAWN DDR
FIELD RAW/MWJ	FIELD BOOK H14/S3
CHECKED DCD	CHECK DATE

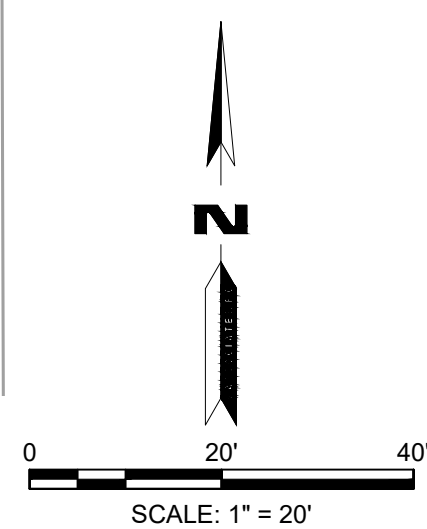
SHEET TITLE
**EXISTING
CONDITIONS & SITE
DEMOLITION PLANS**

PROJECT NO.
24-5008
DRAWING ISSUED DATE:
10/30/2024
SHEET

CD101



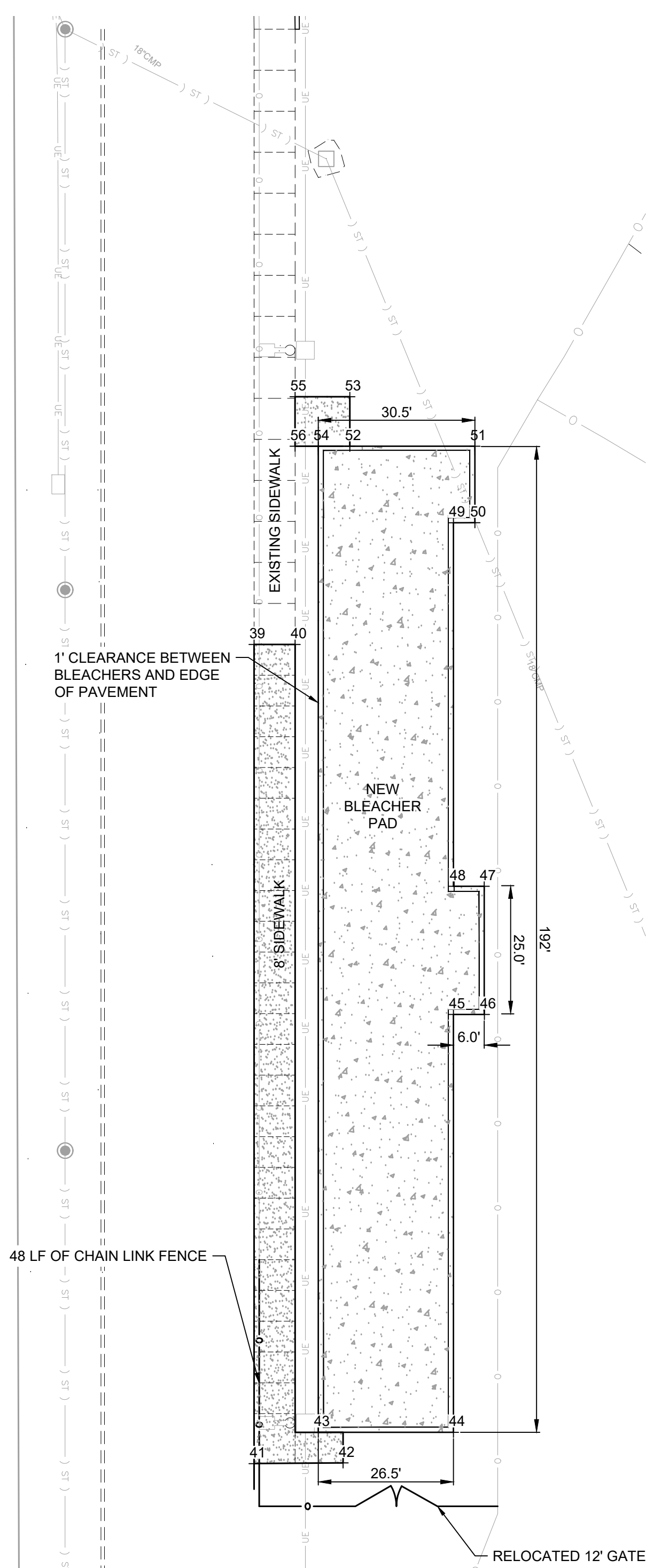
LOCKER ROOM SITE PLAN
1" = 20'-0"



- PAVEMENT JOINT LEGEND**
- E.J. - EXPANSION JOINT (DETAIL 1/C502)
 - T.J. - TIED JOINT (DETAIL 1/C502)
 - S.J. - SAWED JOINT (DETAIL 1/C502)

- PAVEMENT HATCH LEGEND**
- 6" CONCRETE PAVEMENT (DETAIL 1/C501)
 - 5" CONCRETE SIDEWALK (DETAIL 2/C501)

FOOTBALL FIELD



BLEACHER SITE PLAN
1" = 20'-0"

COORDINATE POINTS			
POINT #	DESC.	NORTHING	EASTING
1	NW BLDG. FOUNDATION	1197283.9469	1715887.3756
2	EDGE OF PAVEMENT	1197289.9820	1715887.3756
3	EDGE OF PAVEMENT	1197289.9820	1715942.3915
4	NE BLDG. FOUNDATION	1197283.9820	1715932.3756
5	SE BLDG. FOUNDATION	1197238.9820	1715932.3756
6	SW BLDG. FOUNDATION	1197238.9820	1715887.3756
7	EDGE OF PAVEMENT	1197232.9820	1715887.3756
8	EDGE OF PAVEMENT	1197232.9820	1715922.4170
9	EDGE OF PAVEMENT	1197232.9807	1715936.3713
10	EDGE OF PAVEMENT	1197173.2795	1715936.3393
11	EDGE OF PAVEMENT	1197172.9807	1715942.3391
12	EDGE OF PAVEMENT	1197173.1054	1715990.6637
13	EDGE OF PAVEMENT	1197276.2944	1715990.8624
14	EDGE OF PAVEMENT	1197276.2391	1716020.1564
15	EDGE OF PAVEMENT	1197114.2725	1716020.1564
16	EDGE OF PAVEMENT	1197114.2725	1715979.6098
17	EDGE OF PAVEMENT	1197065.0810	1715979.2970
18	EDGE OF PAVEMENT	1197065.1145	1715968.5566
19	EDGE OF PAVEMENT	1197052.8070	1715968.3990
20	RADIUS PT	1197050.4815	1715966.2631
21	RADIUS PT	1197024.6035	1715966.1199
22	EDGE OF PAVEMENT	1197022.4573	1715968.5330
23	EDGE OF PAVEMENT	1197009.9790	1715968.6720
24	EDGE OF PAVEMENT	1197009.9900	1715979.2570
25	EDGE OF PAVEMENT	1196973.1577	1715979.2570
26	EDGE OF PAVEMENT	1196972.9480	1716006.4890
27	EDGE OF PAVEMENT	1196962.0030	1716006.4760
28	EDGE OF PAVEMENT	1196962.2160	1716020.2360
29	EDGE OF PAVEMENT	1196956.6860	1716020.2360
30	EDGE OF PAVEMENT	1196956.6860	1715922.4486
31	EDGE OF PAVEMENT	1197024.5191	1715922.4486
32	EDGE OF PAVEMENT	1197024.5470	1715917.9640
33	EDGE OF PAVEMENT	1197032.4597	1715918.1039
34	EDGE OF PAVEMENT	1197032.2810	1715928.2060
35	EDGE OF PAVEMENT	1197042.7500	1715928.2480
36	EDGE OF PAVEMENT	1197042.8334	1715917.9977
37	EDGE OF PAVEMENT	1197050.7720	1715918.0200
38	EDGE OF PAVEMENT	1197050.7938	1715922.4486
39	EDGE OF PAVEMENT	1197082.0619	1716293.8948
40	EDGE OF PAVEMENT	1197082.0619	1716301.8948
41	EDGE OF PAVEMENT	1196922.2944	1716293.8948
42	EDGE OF PAVEMENT	1196922.4329	1716311.2535
43	EDGE OF PAVEMENT	1196928.4020	1716306.4218
44	EDGE OF PAVEMENT	1196928.4020	1716332.7718
45	EDGE OF PAVEMENT	1197009.9020	1716332.7718
46	EDGE OF PAVEMENT	1197009.9020	1716338.7938
47	EDGE OF PAVEMENT	1197034.9020	1716338.7718
48	EDGE OF PAVEMENT	1197034.9020	1716332.9014
49	EDGE OF PAVEMENT	1197105.8052	1716332.7718
50	EDGE OF PAVEMENT	1197105.8186	1716336.9518
51	EDGE OF PAVEMENT	1197120.7320	1716336.9518
52	EDGE OF PAVEMENT	1197120.7367	1716312.5726
53	EDGE OF PAVEMENT	1197130.3869	1716312.5726
54	EDGE OF PAVEMENT	1197120.7320	1716306.4218
55	EDGE OF PAVEMENT	1197130.3869	1716301.8948
56	EDGE OF PAVEMENT	1197120.7320	1716301.8948

- BENCHMARKS:**
- CHISELED "*" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
 - SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
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REVISION HISTORY

MARK	DESCRIPTION	DATE	APPR

ISSUED FOR: 10/30/2024
DESIGN DEVELOPMENT

PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM AND BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255

Non-Reduced Sheet Size: 22" x 34"
Full sized plans have been prepared using standard scales.
Reduced size plans may not conform to standard scales.

DESIGNED DDR	DRAWN DDR
FIELD RAW/MWJ	FIELD BOOK H14/53
CHECKED DCD	CHECK DATE

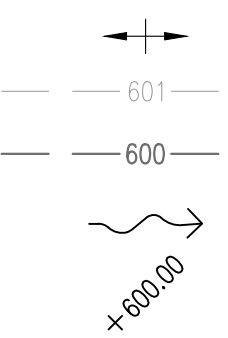
SHEET TITLE
SITE PLANS

PROJECT NO.
24-5008

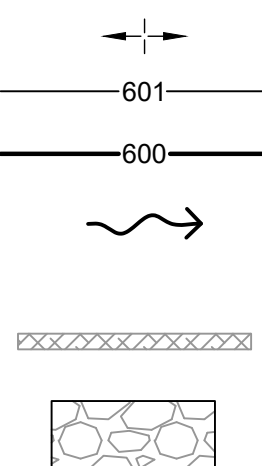
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10/30/2024

SHEET
C101

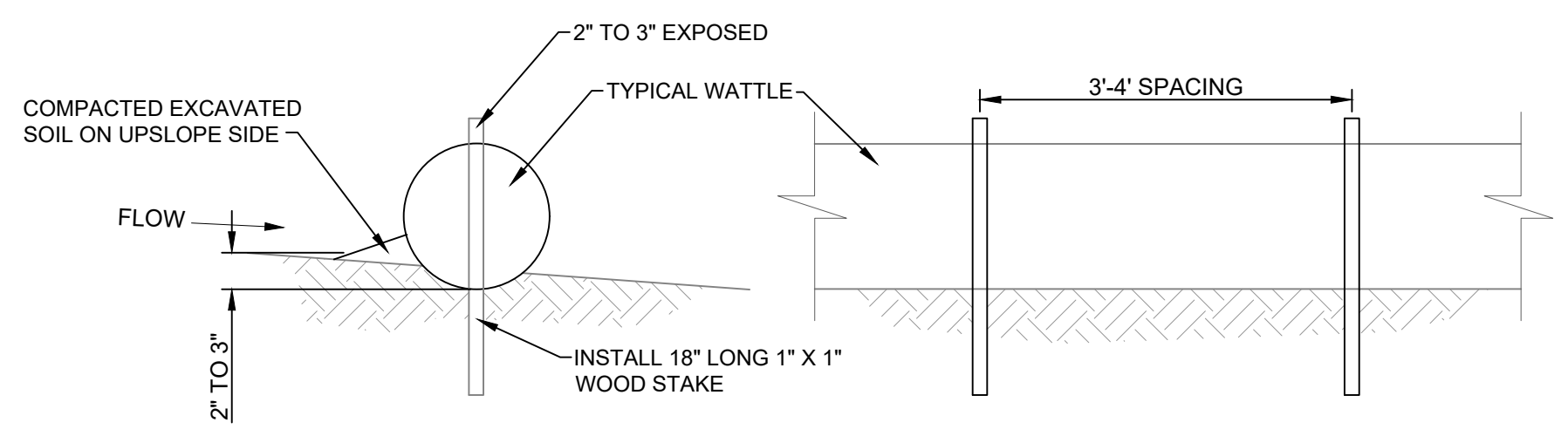
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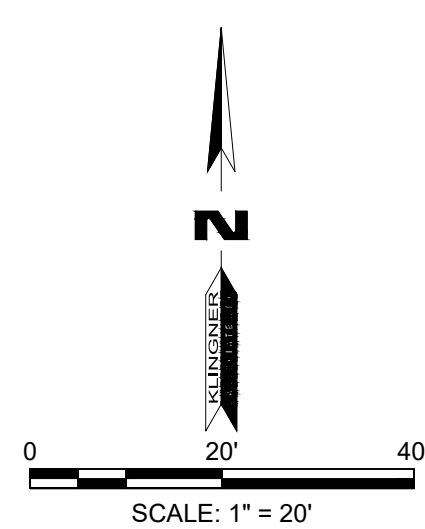
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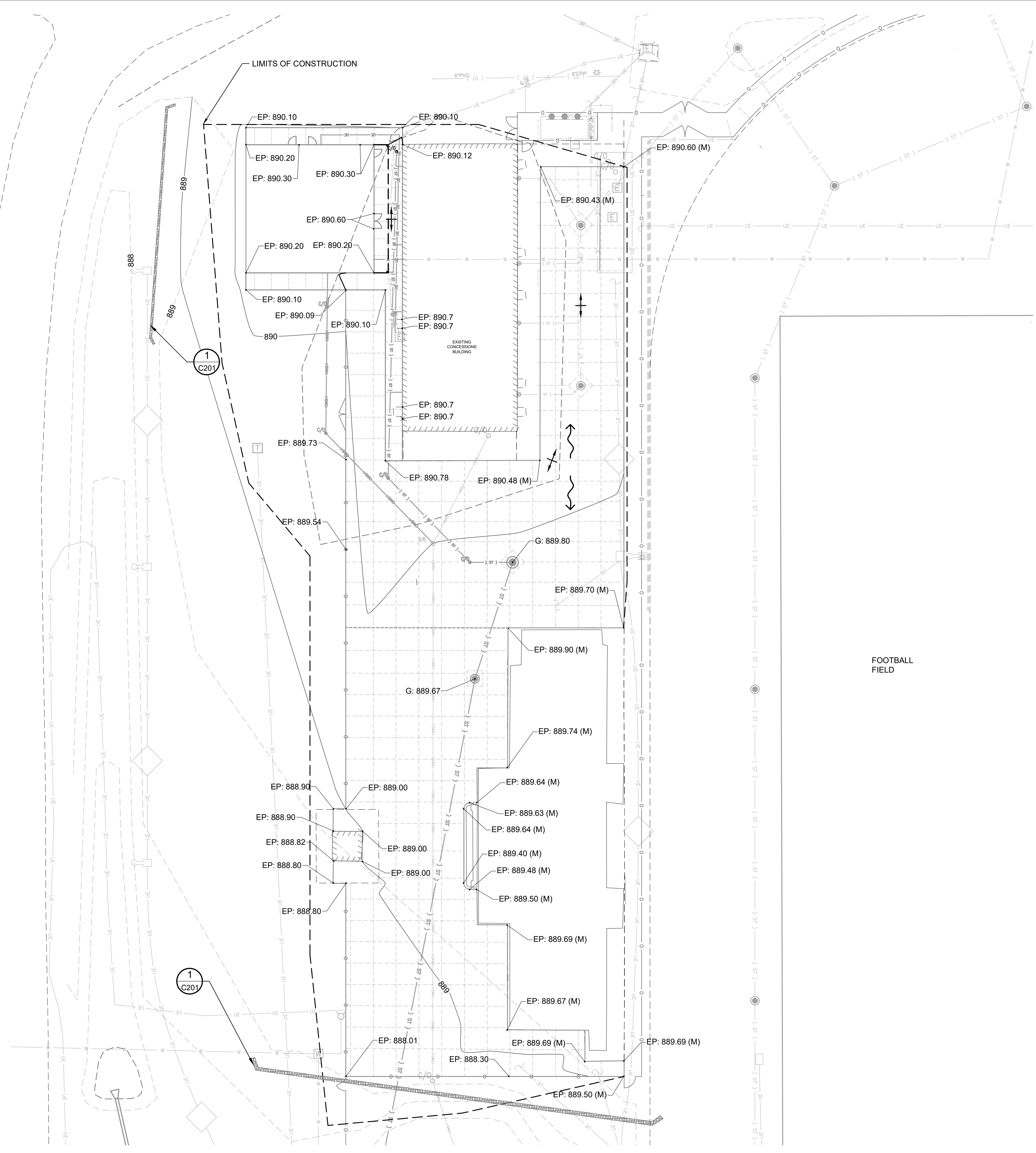
SUMMIT / HIGH POINT
 CONTOURS
 INDEX CONTOURS
 DIRECTION OF DRAINAGE
 SPOT ELEVATION
 EROSION CONTROL BARRIER (DETAILS 1/C201)
 ROCK DITCH LINER



1 EROSION CONTROL WATTLE CHECK
 N.T.S.



- BENCHMARKS:**
- CHISELED "*" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
 - SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
 - CHISELED "*" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
 - CHISELED "*" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING - ELEV 893.02



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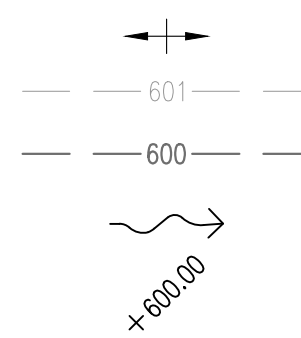
HALLSVILLE LOCKER ROOM AND BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
 421 E HWY 124
 HALLSVILLE, MO 65255

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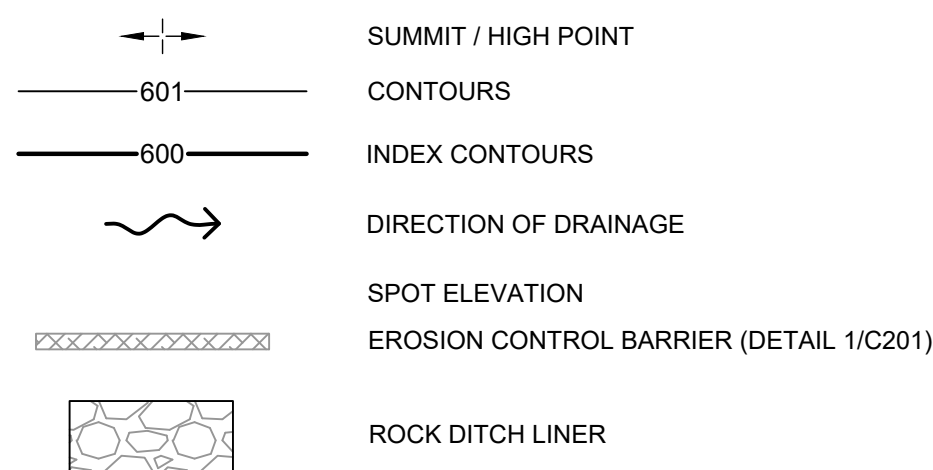
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FIELD RAW/MMWJ	FIELD BOOK H14/S3
CHECKED DCD	CHECK DATE

SHEET TITLE LOCKER ROOM GRADING AND EROSION CONTROL PLAN	
PROJECT NO. 24-5008	
DRAWING ISSUED DATE: 10/30/2024	
SHEET C201	

EXISTING

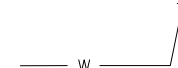


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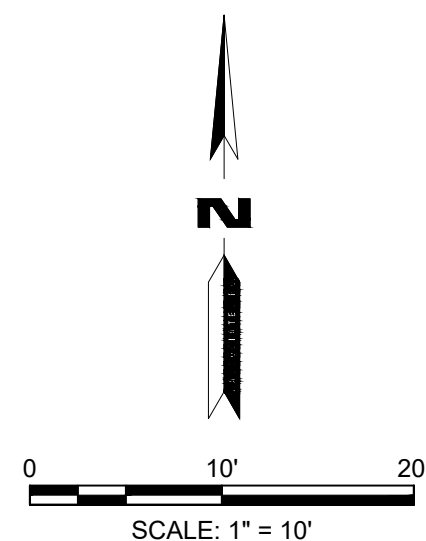


LEGEND

SUMMIT / HIGH POINT
 CONTOURS
 INDEX CONTOURS
 DIRECTION OF DRAINAGE
 SPOT ELEVATION
 EROSION CONTROL BARRIER (DETAIL 1/C201)
 ROCK DITCH LINER

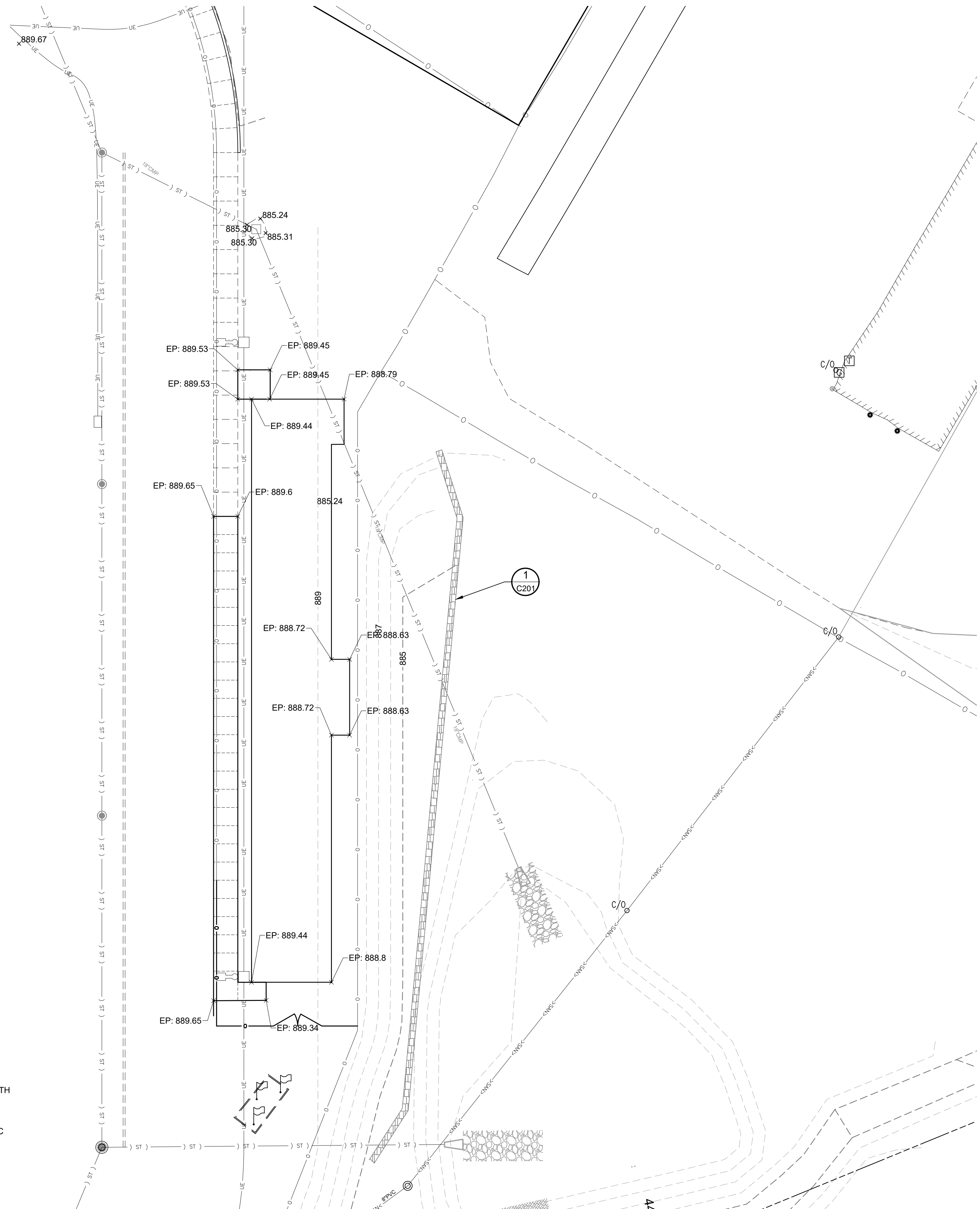


FOOTBALL FIELD



BENCHMARKS:

1. CHISELED "X" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
2. SOUTHWEST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHWEST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
3. CHISELED "X" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
4. CHISELED "X" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING - ELEV 893.02



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**HALLSVILLE LOCKER ROOM AND
 BLEACHER ADDITION
 HALLSVILLE R-IV SCHOOL DISTRICT
 421 E HWY 124
 HALLSVILLE, MO 65255**

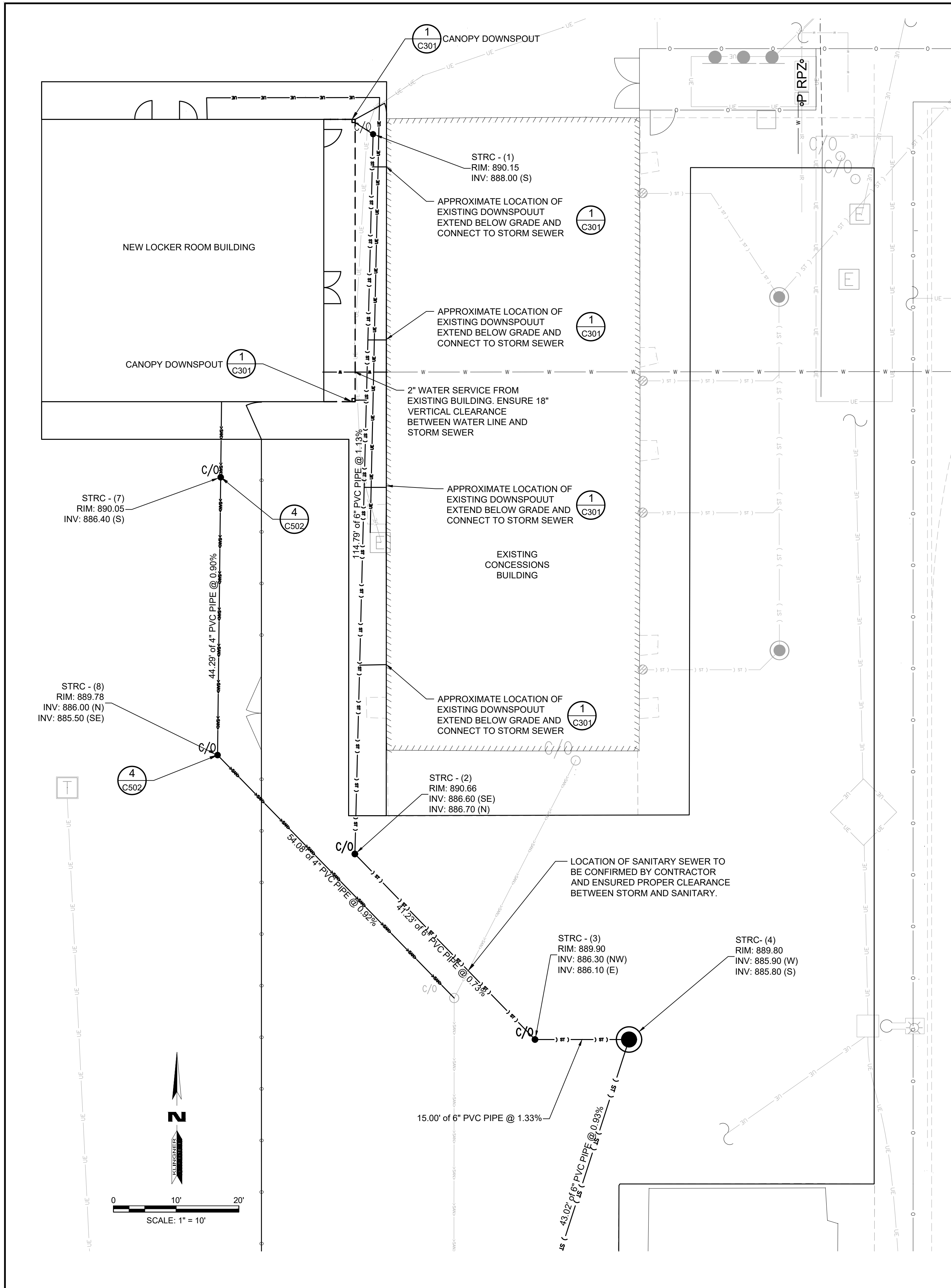
Non-Reduced Sheet Size: 22" x 34"
 Full sized plans have been prepared using standard scales.
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DESIGNED	DRAWN
DDR	DDR
FIELD	FIELD BOOK
RAW/MWJ	H14/S3
CHECKED	CHECK DATE
DCD	

**SHEET TITLE
 BLEACHER
 GRADING AND
 EROSION CONTROL
 PLAN**

PROJECT NO.
 24-5008
 DRAWING ISSUED DATE:
 10/30/2024

SHEET
C202

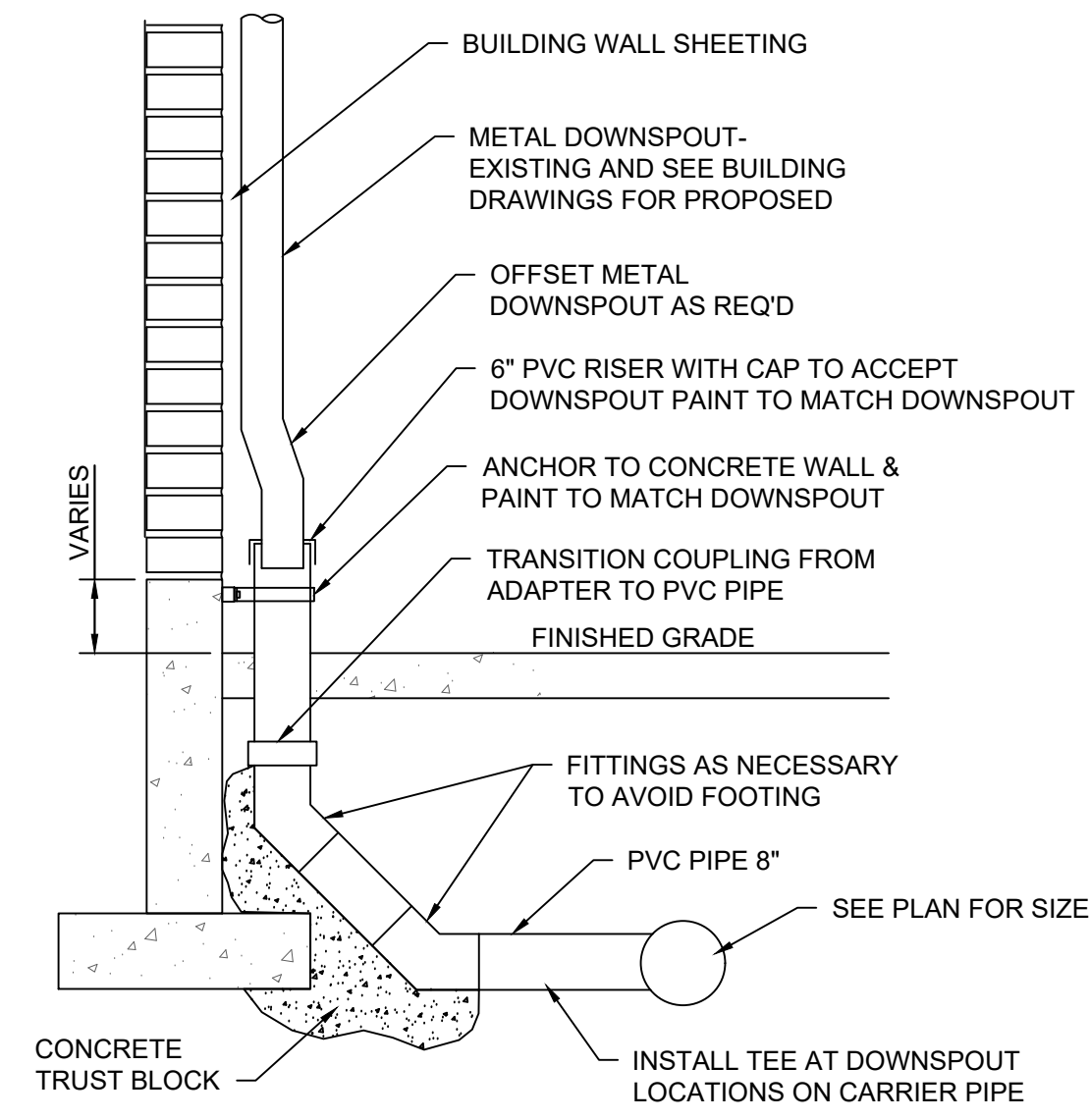


STORM SEWER STRUCTURE SCHEDULE

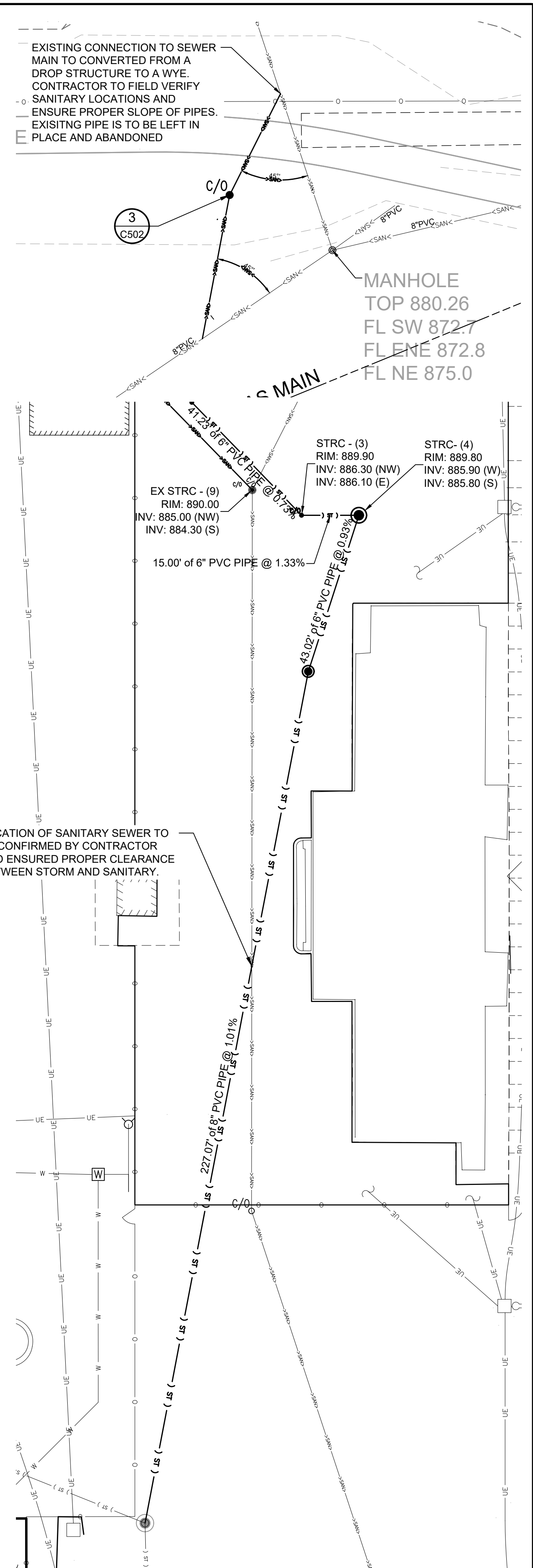
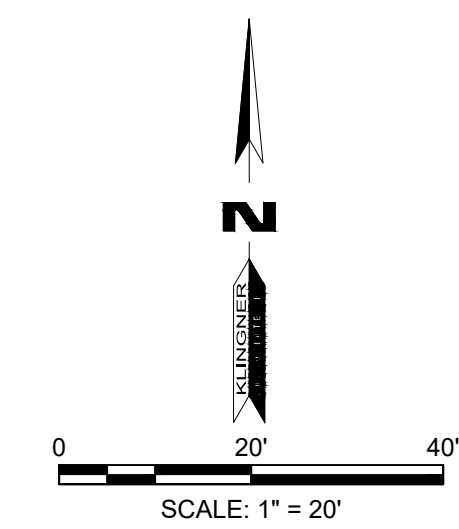
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1	CLEANOUT (DETAIL 3/C502)	TRAFFIC RATED
2	CLEANOUT (DETAIL 3/C502)	TRAFFIC RATED
3	CLEANOUT (DETAIL 3/C502)	TRAFFIC RATED
4	NYLOPLAST DRAIN BASIN 2824AG(24")	NYLOPLAST PEDESTRIAN GRATE
5	NYLOPLAST DRAIN BASIN 2824AG(24")	NYLOPLAST PEDESTRIAN GRATE
6	EX STRUCTURE	N/A

SANITARY SEWER STRUCTURE SCHEDULE

STRUCTURE NO.	DESCRIPTION	GRATE TYPE
7	CLEANOUT (DETAIL 3/C502)	TRAFFIC RATED
8	CLEANOUT (DETAIL 3/C502)	TRAFFIC RATED
9	EX STRUCTURE	N/A



- BENCHMARKS:**
- CHISELED "+" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
 - SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
 - CHISELED "+" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
 - CHISELED "+" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING - ELEV 893.02



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HALLSVILLE LOCKER ROOM AND BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255

Non-Reduced Sheet Size: 22" x 34"
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DESIGNED	DRAWN
DDR	DDR

FIELD	FIELD BOOK
RAW/MWJ	H14/53

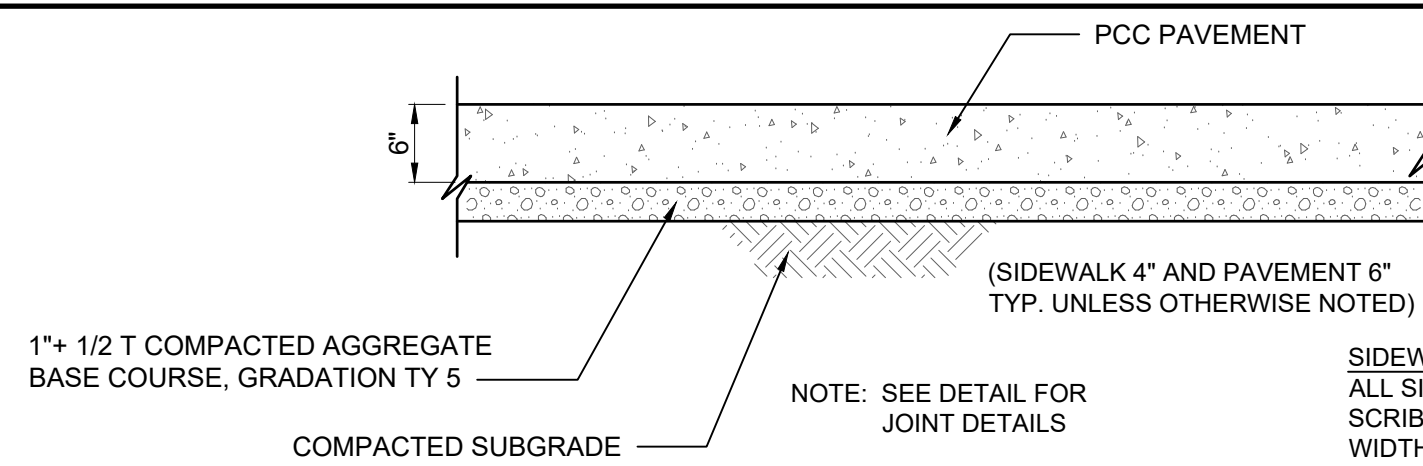
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SHEET TITLE
UTILITIES

PROJECT NO.
24-5008

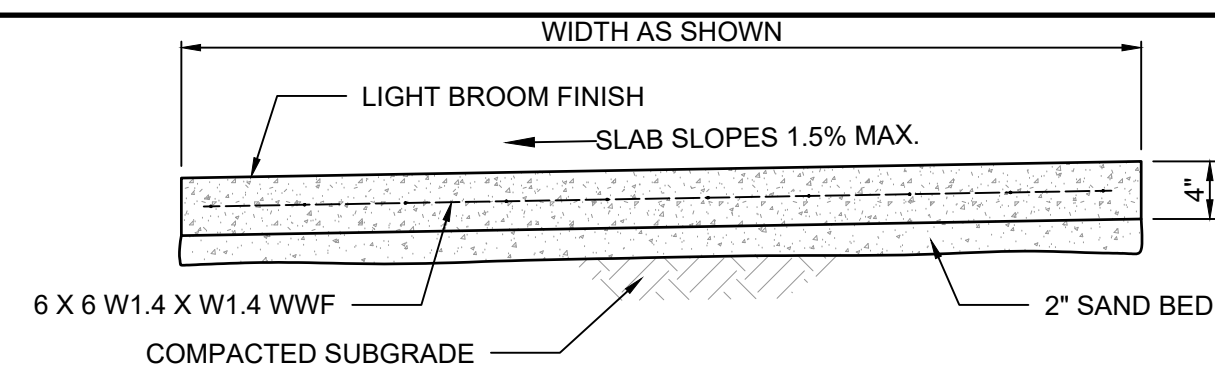
DRAWING ISSUED DATE:
10/30/2024

SHEET
C301



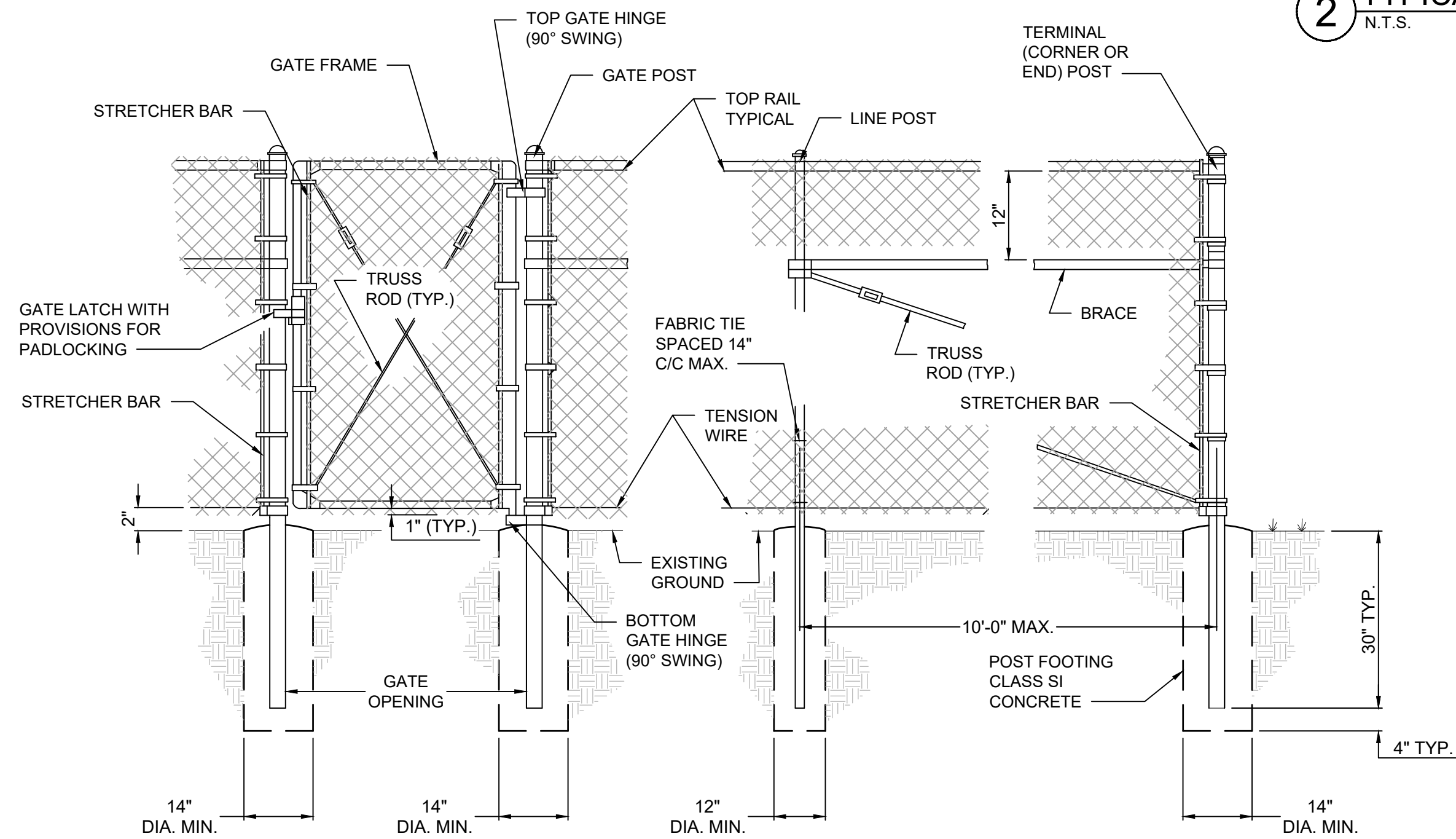
1 PCC PAVING DETAIL
N.T.S.

SIDEWALK NOTES:
ALL SIDEWALK JOINTS SHALL BE SCRIBED OR EDGED, MAX. SPACING = WIDTH OF SIDEWALK
1/2" EXP. JTS. W/ POLYURETHANE SEALER AT MAX. 50' INTERVALS
MAXIMUM 2.0% CROSS SLOPE
MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%



NOTES:
ALL SIDEWALK JOINTS SHALL BE TOOLED OR EDGED, MAX. SPACING = WIDTH OF SIDEWALK.
1/2" EXP. JTS. W/ POLYURETHANE SEALER AT MAX. 50' INTERVALS.
SEE PLAN FOR SIDEWALK WIDTH.
MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

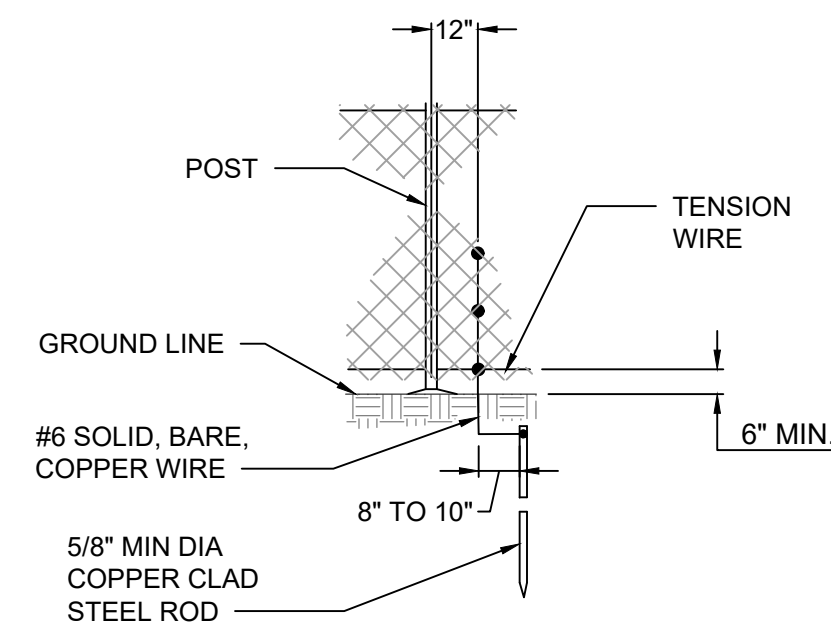
2 TYPICAL SIDEWALK
N.T.S.



PEDESTRIAN GATE

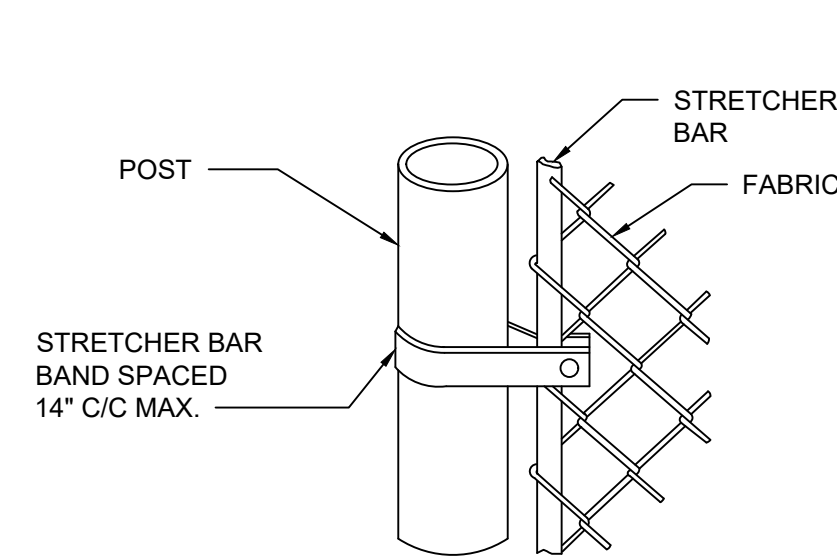
LINE POST

CORNER OR END POST

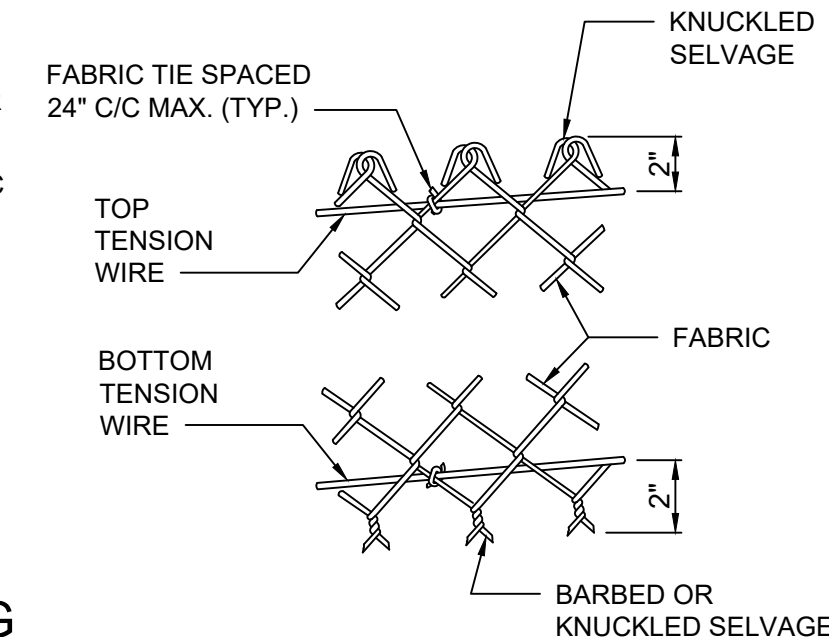


STANDARD GROUND PROTECTIVE ELECTRICAL GROUNDS

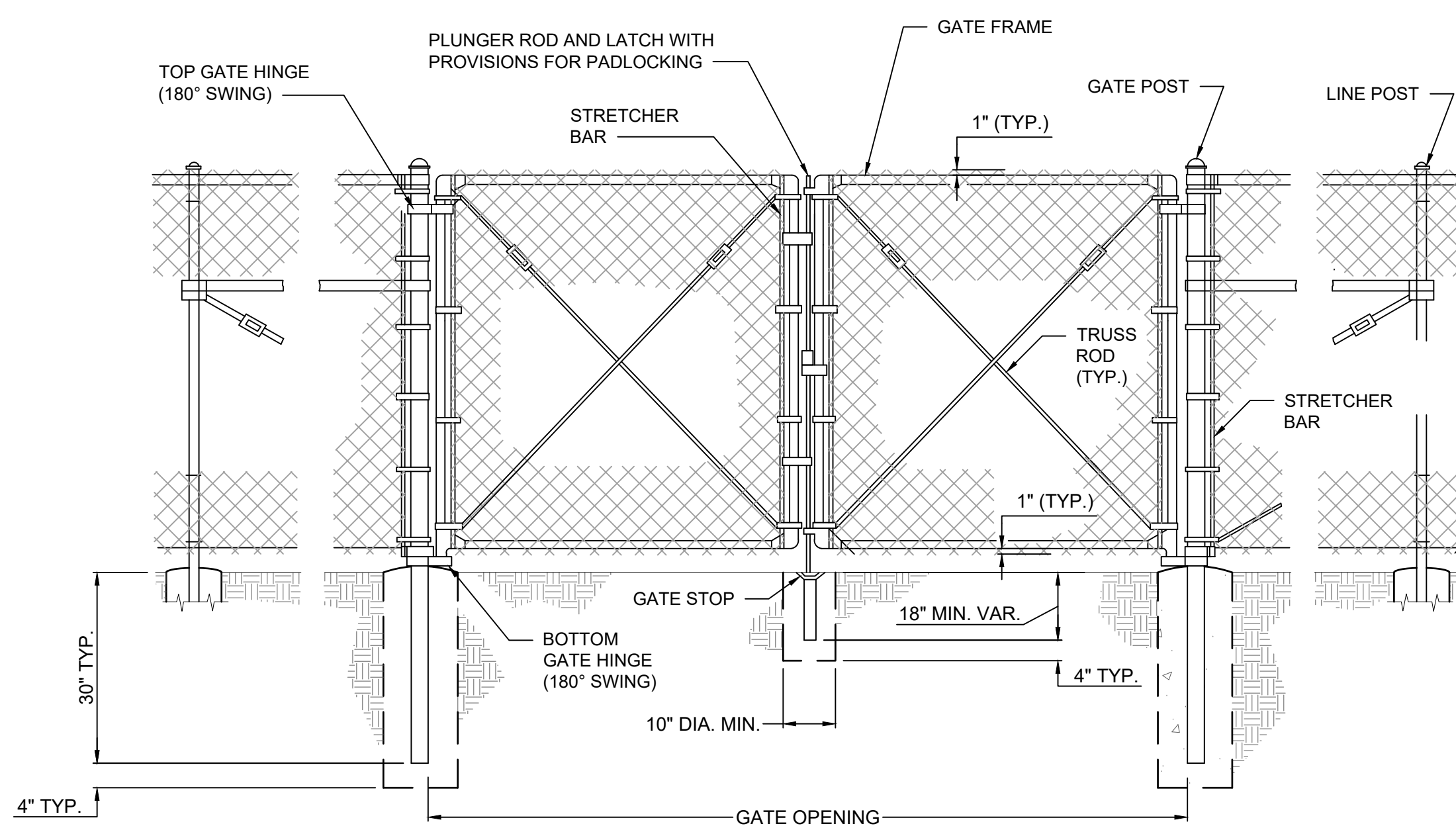
CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 500 FEET. THERE SHALL BE A GROUND WITHIN 100 FEET OF GATES IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE.
THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND THE GROUND ROD BY A MECHANICAL CLAMP OF CAST BRONZE OR STAINLESS STEEL BOLTS AND WASHERS.



METHOD OF FASTENING STRETCHER BAR TO POST



METHOD OF TYING FABRIC TO TENSION WIRES



VEHICLE SWING GATE

3 6' HIGH CHAIN LINK FENCE DETAIL
N.T.S.

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REVISION HISTORY			
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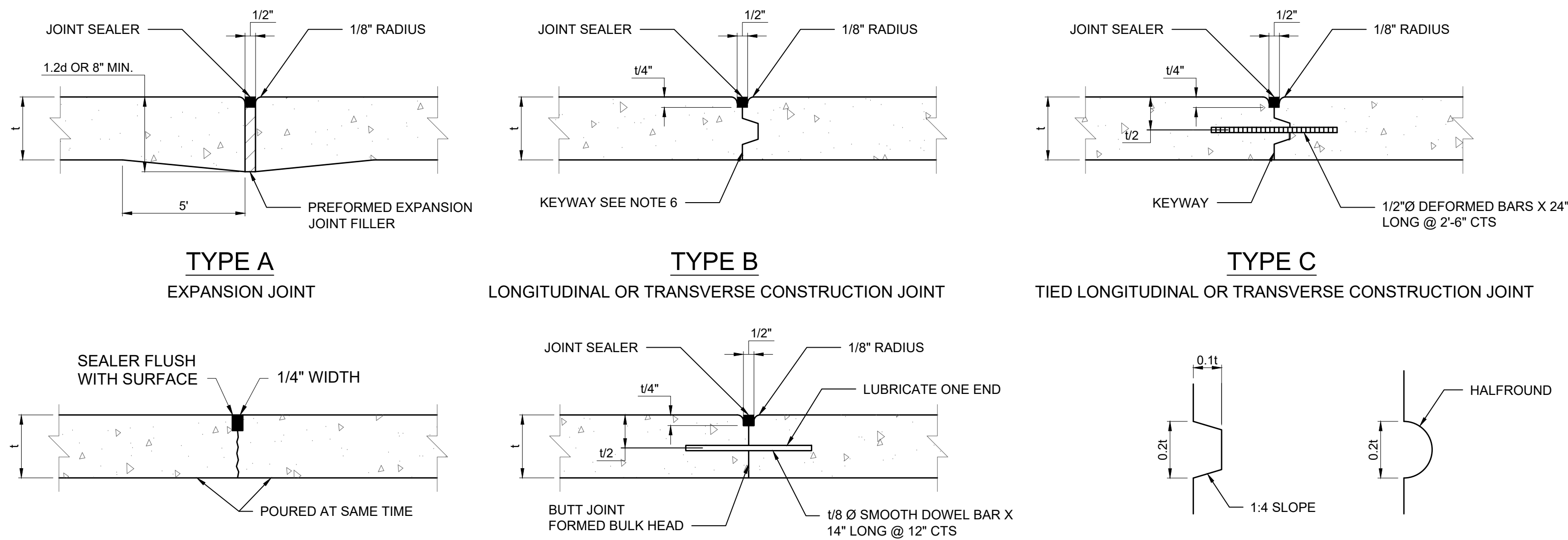
PRELIMINARY NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM AND BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255

Non-Reduced Sheet Size: 22" x 34"
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED DDR	DRAWN DDR
FIELD RAW/MWJ	FIELD BOOK H14/S3
CHECKED DCD	CHECK DATE

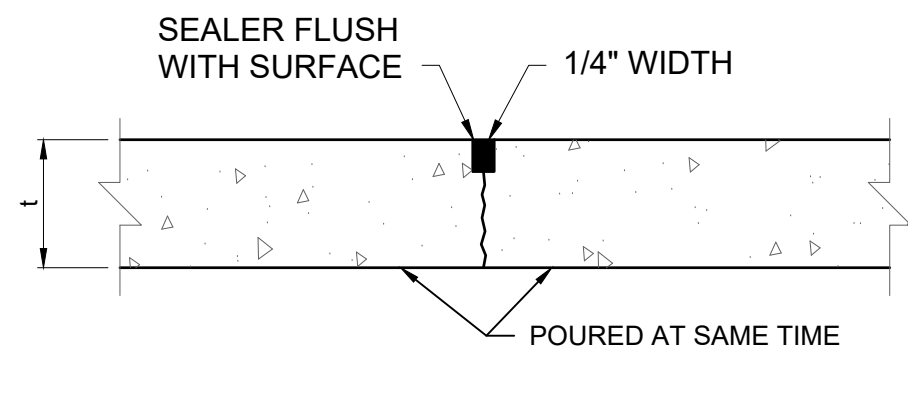
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SITE DETAILS	
PROJECT NO.	24-5008
DRAWING ISSUED DATE:	10/30/2024
SHEET	
C501	



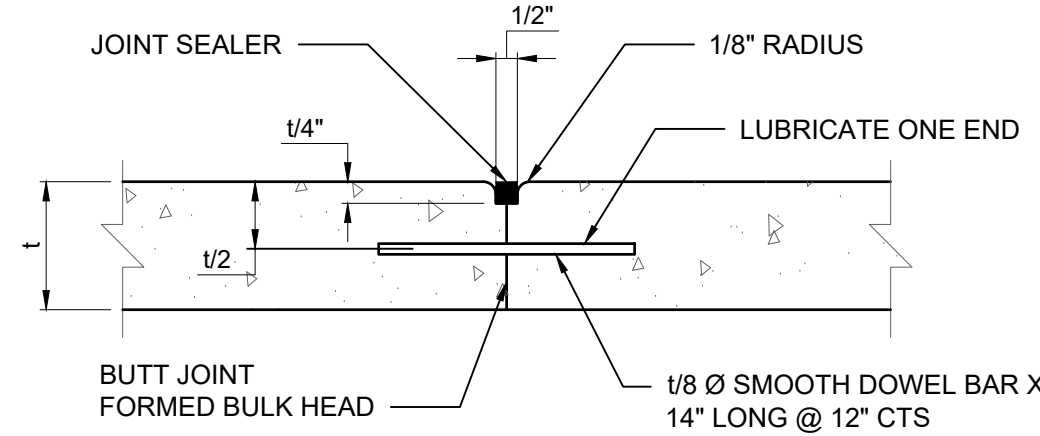
TYPE A
EXPANSION JOINT

TYPE B
LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT

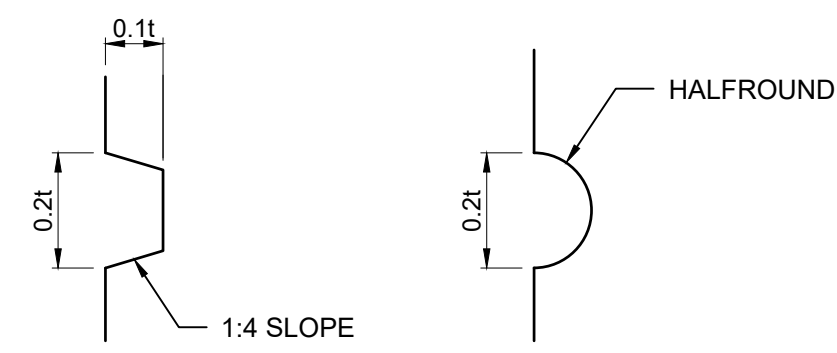
TYPE C
TIED LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT



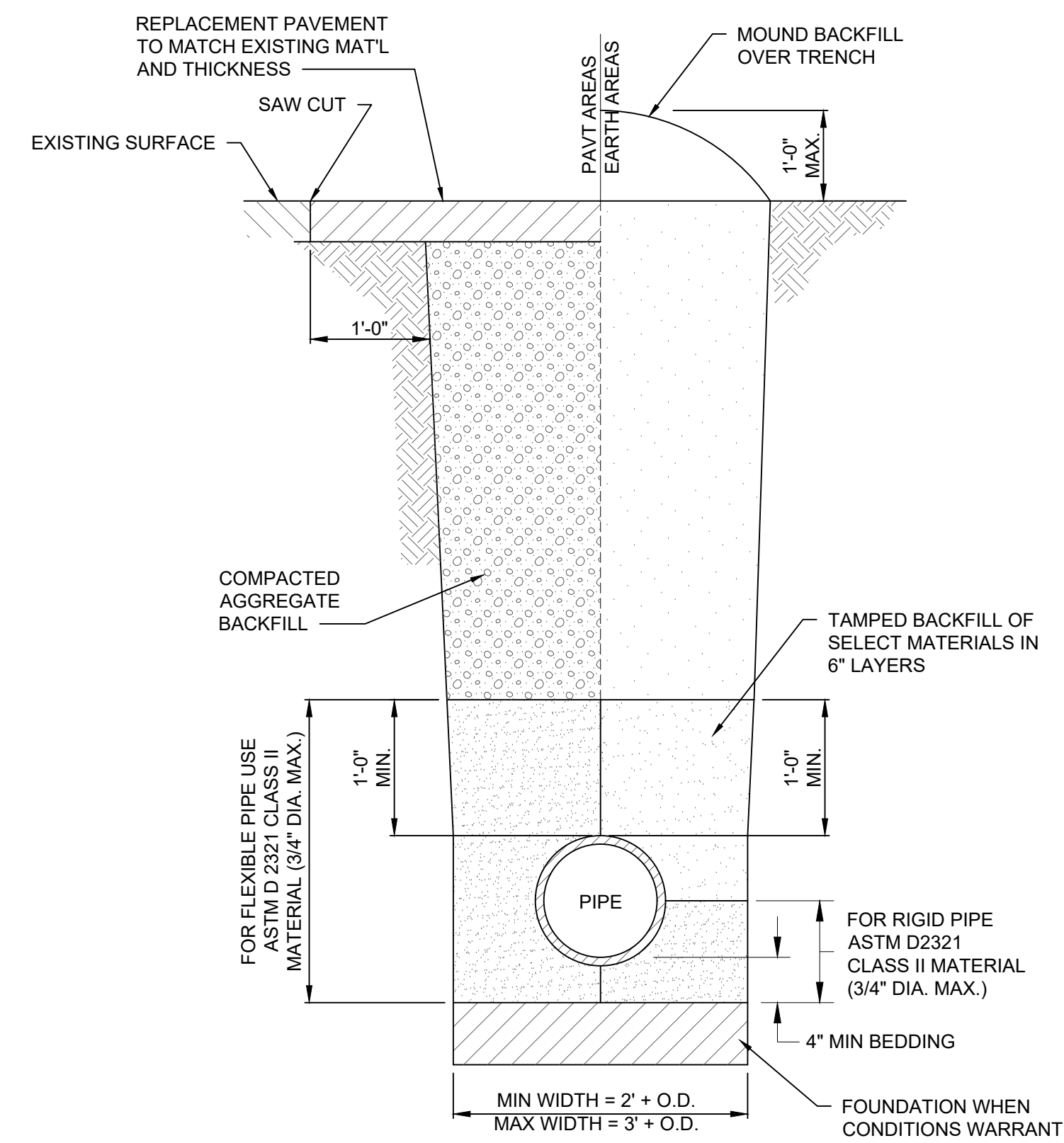
TYPE D
SAWED LONGITUDINAL OR TRANSVERSE



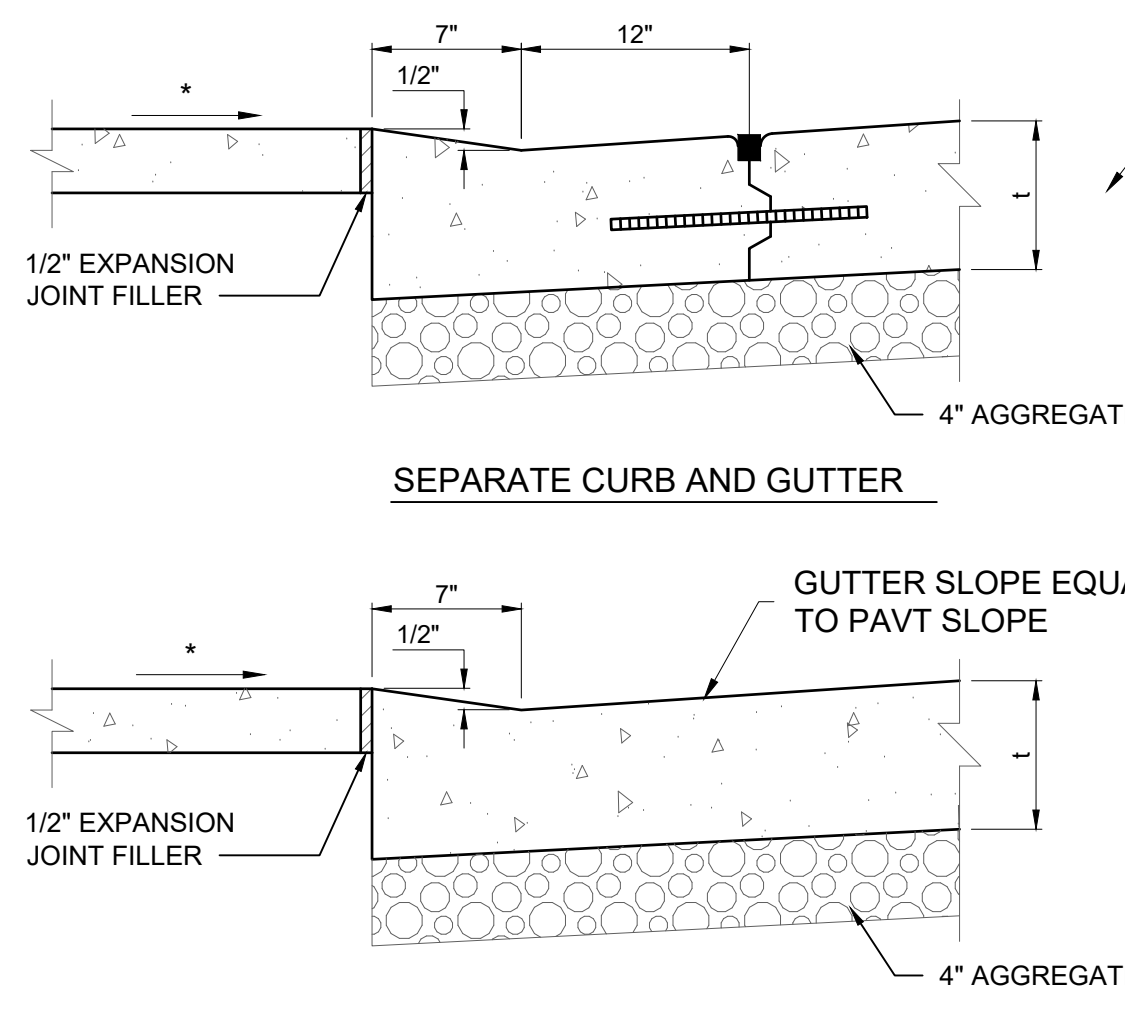
TYPE E
ALTERNATE TRANSVERSE CONSTRUCTION JOINT AT NORMAL SPACING



KEYWAYS FOR TYPE B AND C
CONSTRUCTION JOINTS



2 SEWER TRENCH DETAIL
N.T.S.

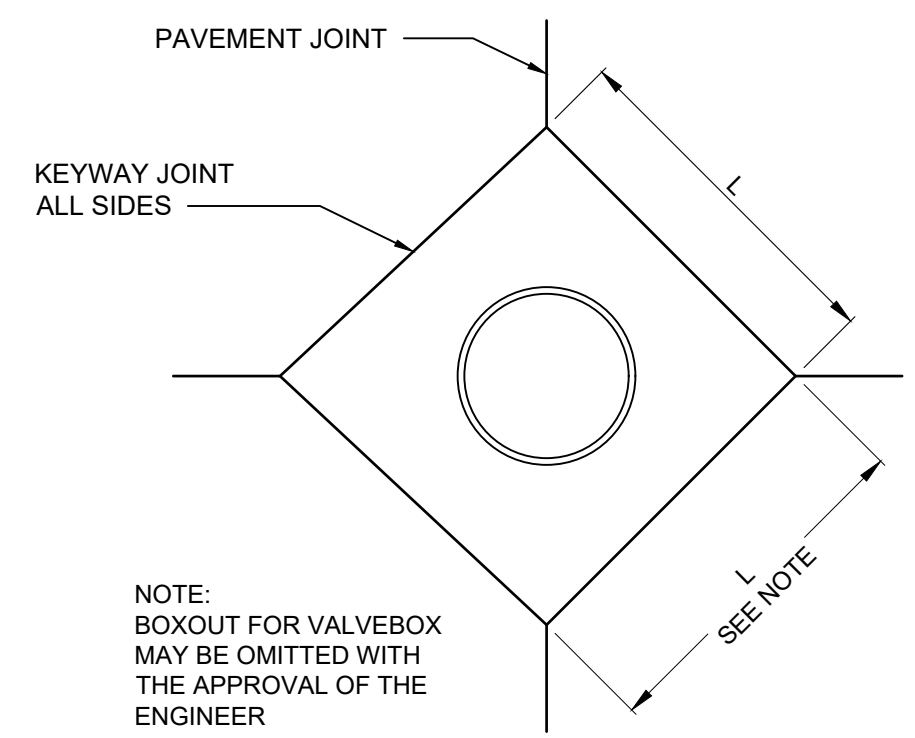


INTEGRAL CURB AND GUTTER

* MAX 1:12 SLOPE ON ALL PEDESTRIAN RAMPS

DETAIL A

CURB AND GUTTER AT PEDESTRIAN RAMPS AND DRIVEWAYS



TYPICAL UTILITY BOXOUT

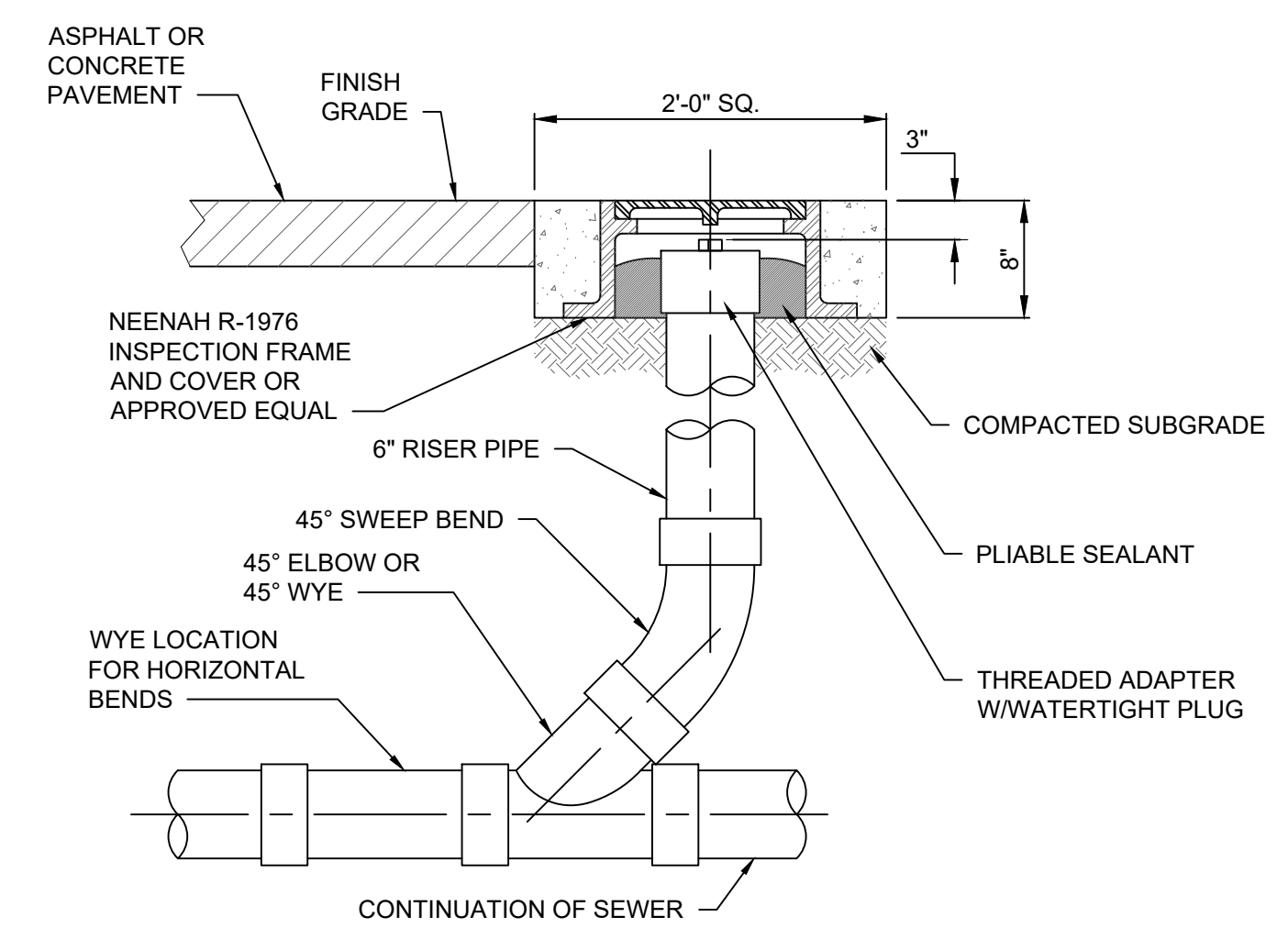
JOINTS ALL CORNERS

NOTE:
BOXOUT FOR VALVEBOX
MAY BE OMITTED WITH
THE APPROVAL OF THE
ENGINEER

MANHOLE L = 4'-0" MIN.
VALVE BOX L = 2'-0" MIN.

NOTES

- AT INLETS, MANHOLES, OR OTHER STRUCTURES TRANSVERSE JOINTS SHALL BE SHORTENED ONE OR MORE PANELS EITHER SIDE OF THE STRUCTURE TO PERMIT JOINTS TO FALL AT THE CORNERS OF THE BOX OUT. ONE OR BOTH "L" DIMENSIONS OF THE BOX OUT MAY BE ADJUSTED TO PROVIDE FOR INTERSECTION OF LONGITUDINAL JOINTS AT BOX OUT CORNERS.
- ALL TRANSVERSE JOINTS MUST EXTEND THROUGH CURBS AND MUST BE CONTINUOUS ACROSS PAVEMENT, EXCEPT TIED TRANSVERSE CONSTRUCTION JOINTS. EXPANSION JOINTS WILL BE REQUIRED AS SHOWN ON PLANS.
- MAXIMUM TRANSVERSE JOINT SPACING SHALL BE 15 FEET, UNLESS OTHERWISE SPECIFIED.
- PAVEMENT JOINTS SHALL BE SEALED WITH HOT POUR MATERIAL MEETING THE REQUIREMENTS OF SECTION 1057.50 (A.S.T.M. DESIGNATION: D6690, TY II).
- DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O., M-31 OR M-53 GRADE 60 SHALL BE USED FOR THE TIE BARS.
- TYPE B JOINTS WHICH ARE TO BE COATED SHALL RECEIVE TWO COATS OF ASPHALTIC EMULSION PRIOR TO PLACEMENT OF THE ADJACENT PAVEMENT.
- TYPE 'D' JOINT MAY BE USED IN LIEU OF TYPE 'B' OR 'C' JOINTS WHEN WHEN SLABS ON BOTH SIDES OF JOINT ARE POURED INTEGRAL.
- SUPPORT PINS FOR THE TIE BARS, WHEN REQUIRED, SHALL BE OF A SIZE AND STRENGTH SUFFICIENT TO FIRMLY HOLD THE BAR IN PLACE.
- THE ALTERNATE CONSTRUCTION OF INTEGRAL OR SEPARATE COMBINATION CURB AND GUTTER IS AT THE CONTRACTORS OPTION.



VEHICLE TRAFFIC AREAS

NOTE: THIS DETAIL MAY ALSO BE USED IN PEDESTRIAN TRAFFIC AREAS

3 CLEANOUT DETAILS
N.T.S.

1 JOINT DETAILS
N.T.S.

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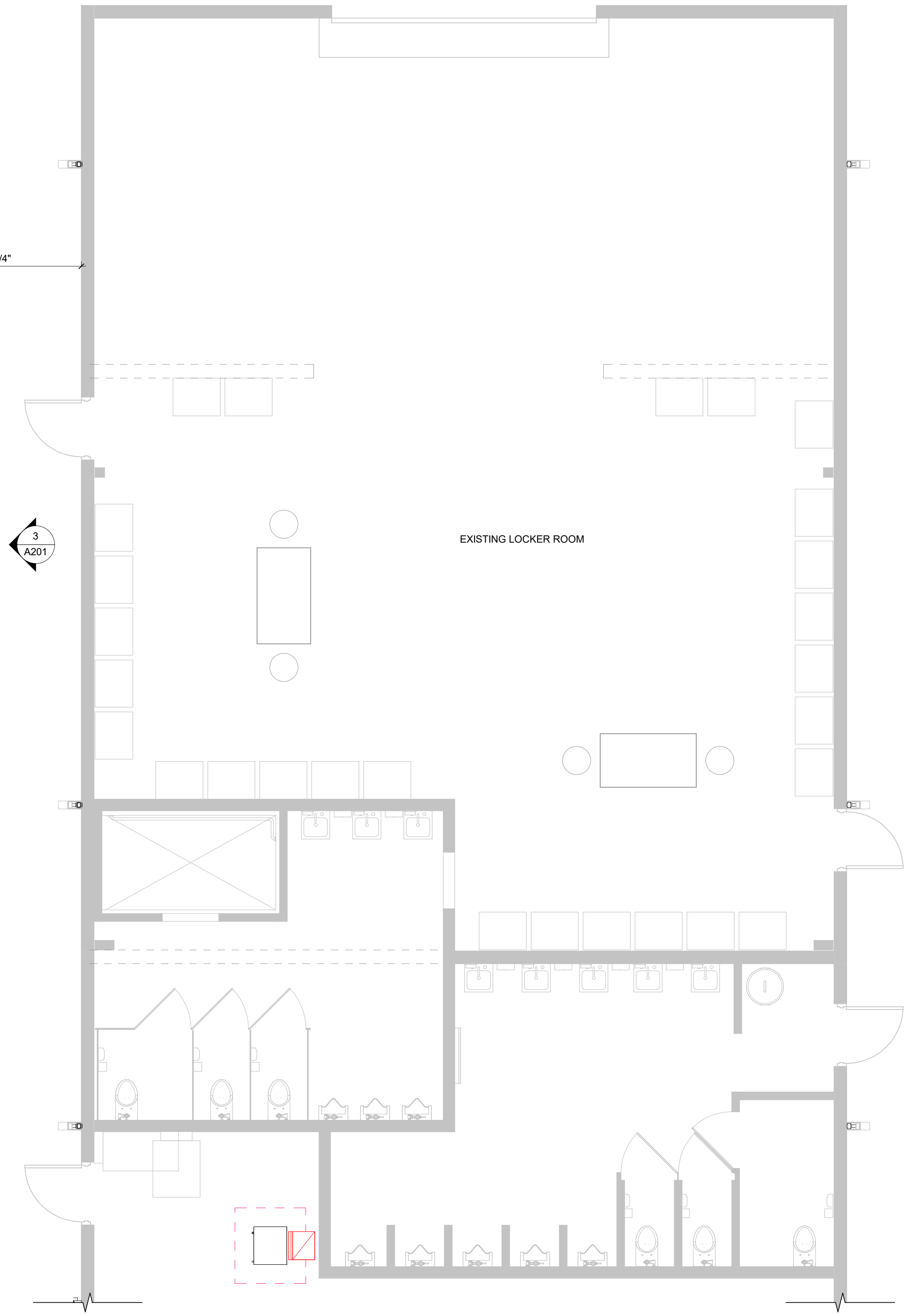
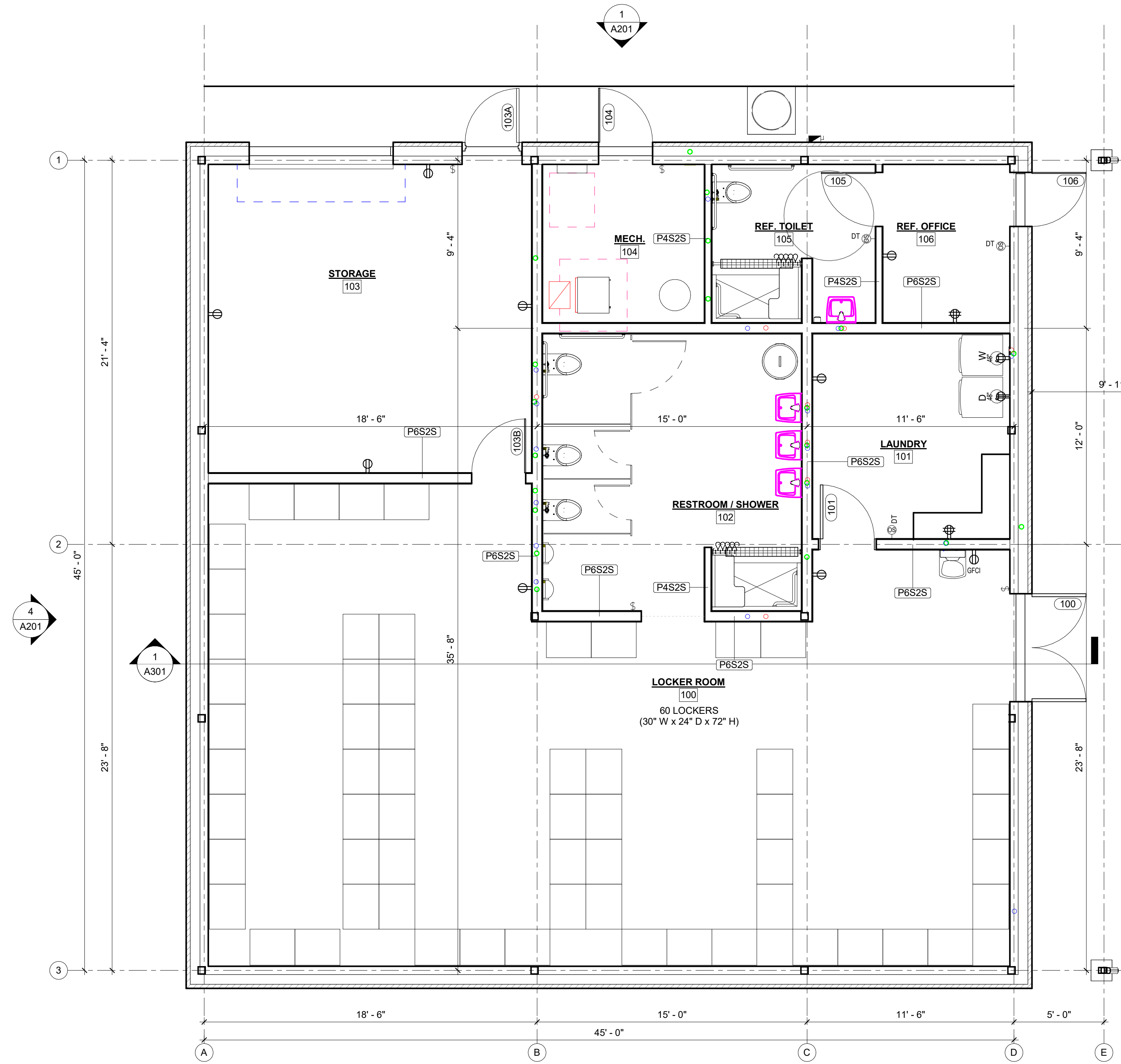
HALLSVILLE LOCKER ROOM AND BLEACHER ADDITION
HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255

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FIELD RAW/MWJ	FIELD BOOK H14/S3
CHECKED DCD	CHECK DATE

SHEET TITLE	
SITE DETAILS	
PROJECT NO.	24-5008
DRAWING ISSUED DATE:	10/30/2024
SHEET	
C502	

11/6/2024 9:12:44 AM
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1 LOCKER ROOM PLAN
 1/4" = 1'-0"

TOTAL GROSS SQUARE FOOTAGE: 2,195

0 5' 10'
 SCALE: 3/16" = 1'-0"

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1			

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HALLSVILLE LOCKER ROOM
 HALLSVILLE R-IV HIGH SCHOOL DISTRICT
 421 MO-124 E, HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"
 Full sized plans have been prepared using standard scales.
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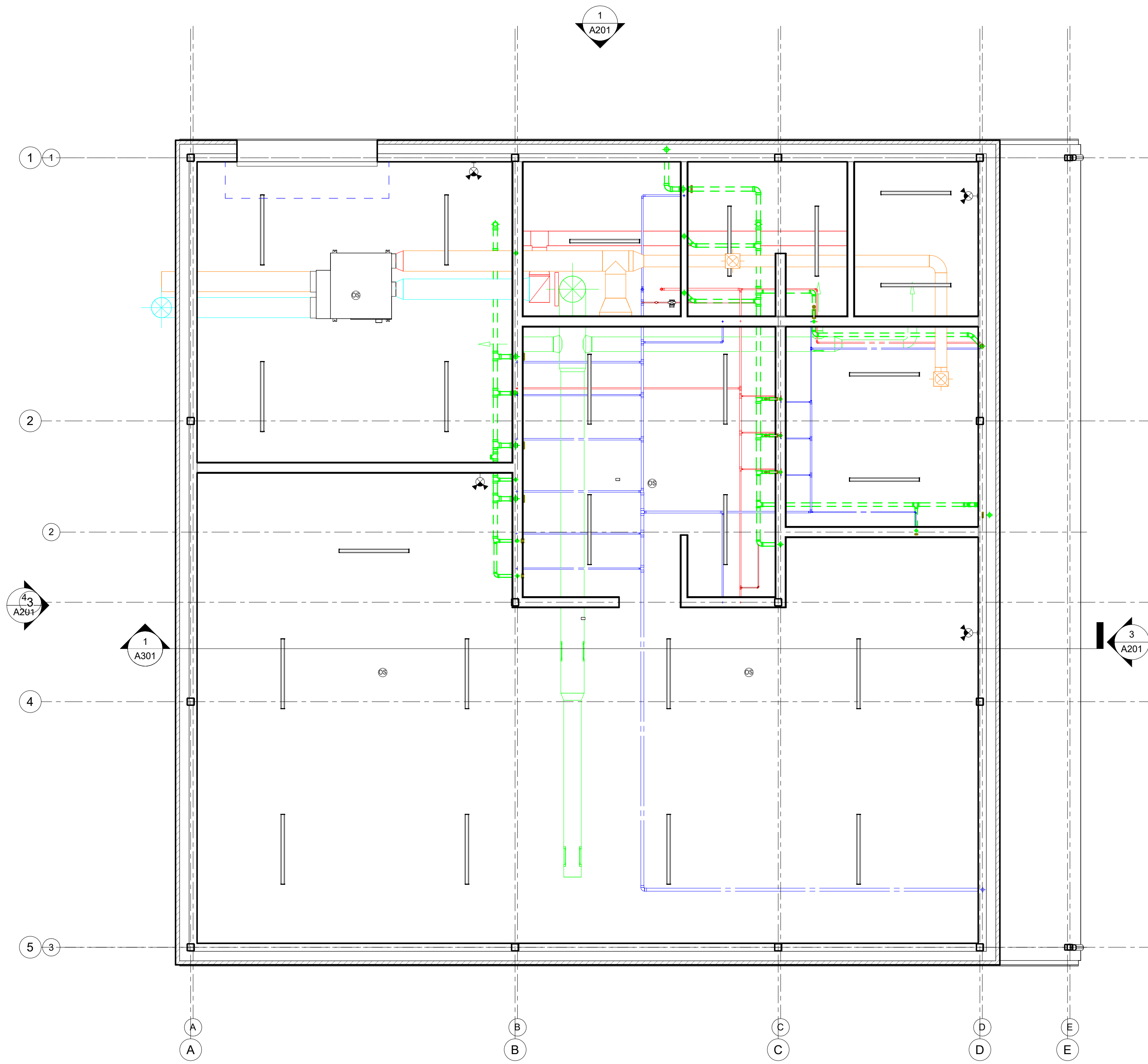
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FIELD: FIELD BOOK	
CHECKED: HMC	CHECK DATE: N/A

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 LOCKER ROOM PLAN

PROJECT NO.
 24-5008
 DRAWING ISSUED DATE:
 10/30/2024

SHEET
 A110

11/6/2024 9:12:45 AM
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1 REFLECTED CEILING PLAN
 1/4" = 1'-0"

0 2' 4' 8'
 SCALE: 1/4" = 1'-0"



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 HALLSVILLE R-IV HIGH SCHOOL DISTRICT
 421 MO-124 E, HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"
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DESIGNED	DRAWN
JRT	JRT
FIELD	FIELD BOOK
CHECKED	CHECK DATE
HMC	

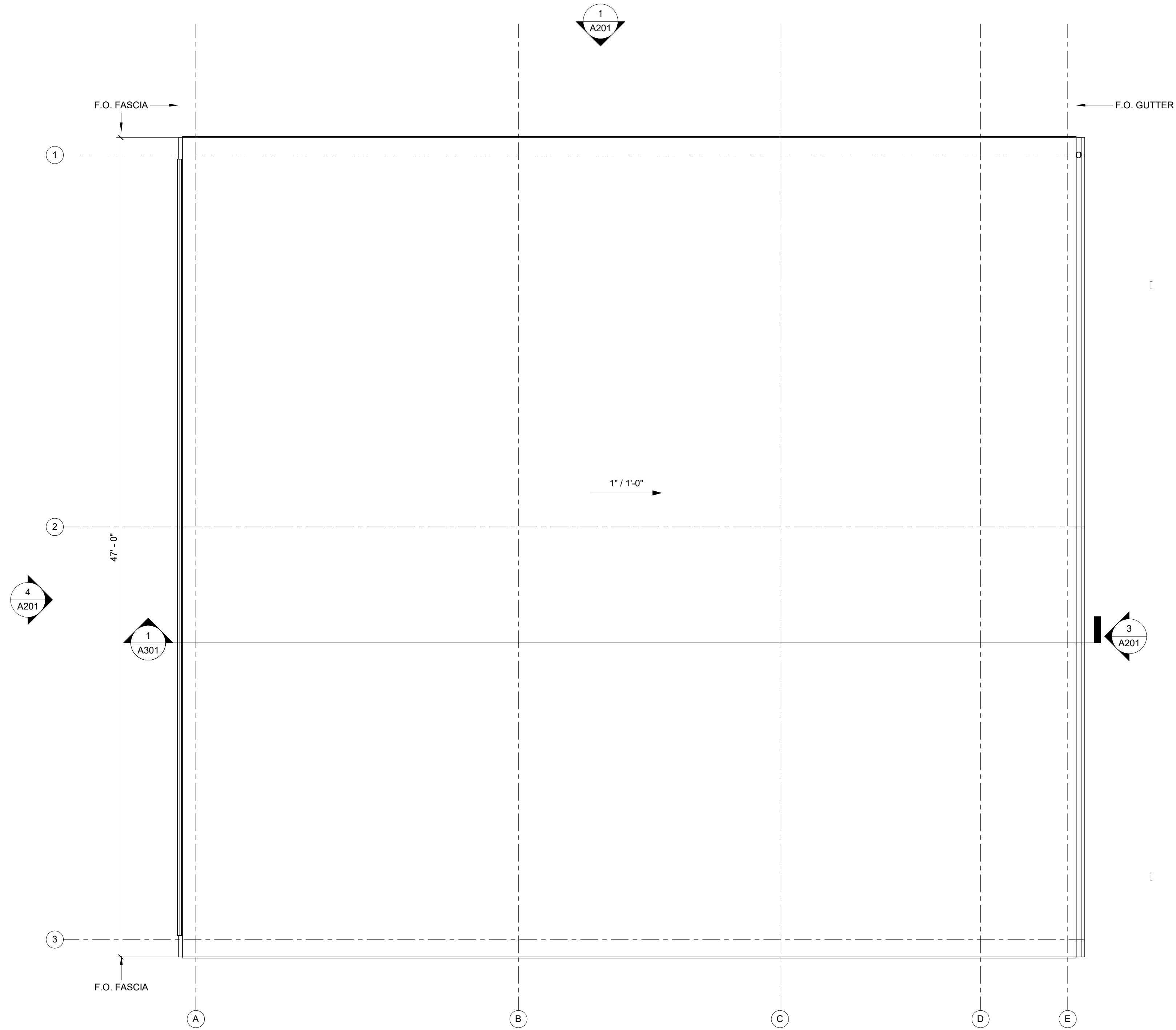
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 FIRST FLOOR
 REFLECTED
 CEILING PLAN

PROJECT NO.
 24-5008
 DRAWING ISSUED DATE:
 10/30/2024

SHEET
 A111

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 Engineers • Architects • Surveyors
 Columbia, Missouri
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 573.355.5988
 www.klingner.com

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

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

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REVISION HISTORY

DESCRIPTION	DATE	APPR

ISSUED FOR **10/30/2024**
DESIGN DEVELOPMENT

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM
HALLSVILLE R-IV HIGH SCHOOL DISTRICT
421 MO-124 E, HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"
Full sized plans have been prepared using standard scales.
Reduced sized plans may not conform to standard scales.

DESIGNED	JRT	DRAWN	JRT
FIELD	JRT	FIELD BOOK	JRT
CHECKED	HMC	CHECK DATE	

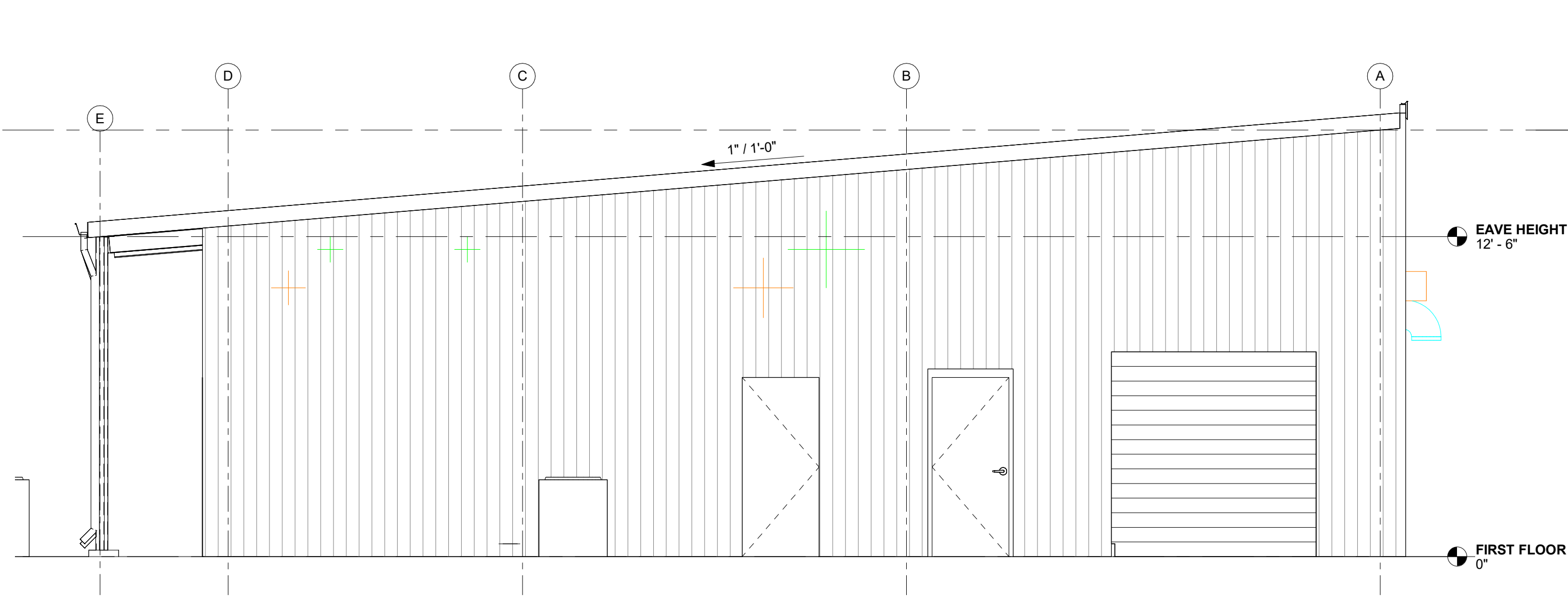
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ROOF PLAN

PROJECT NO.
24-5008

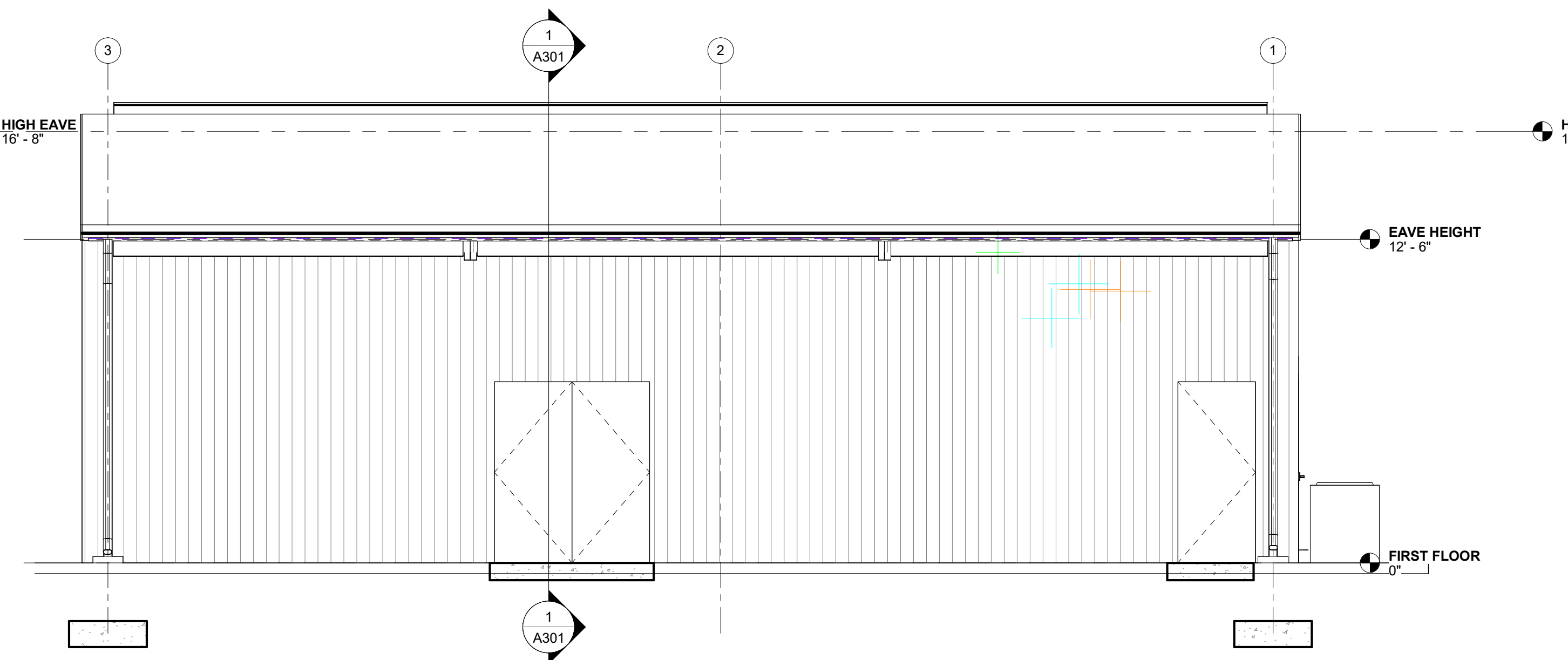
DRAWING ISSUED DATE:
10/30/2024

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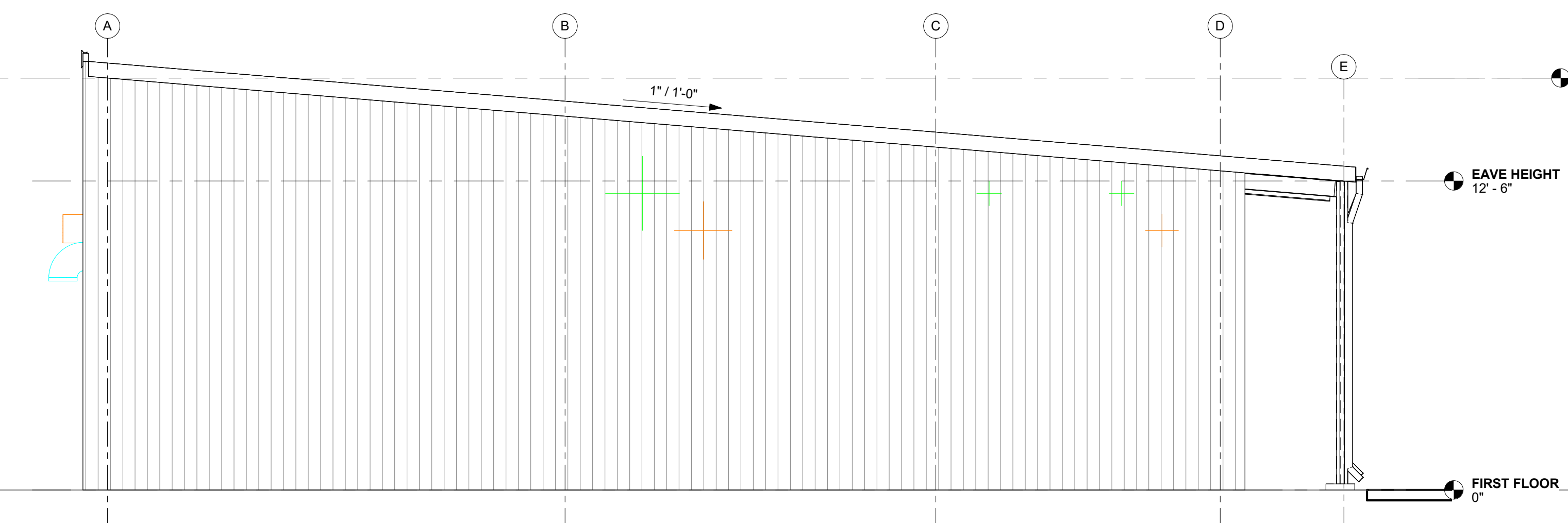
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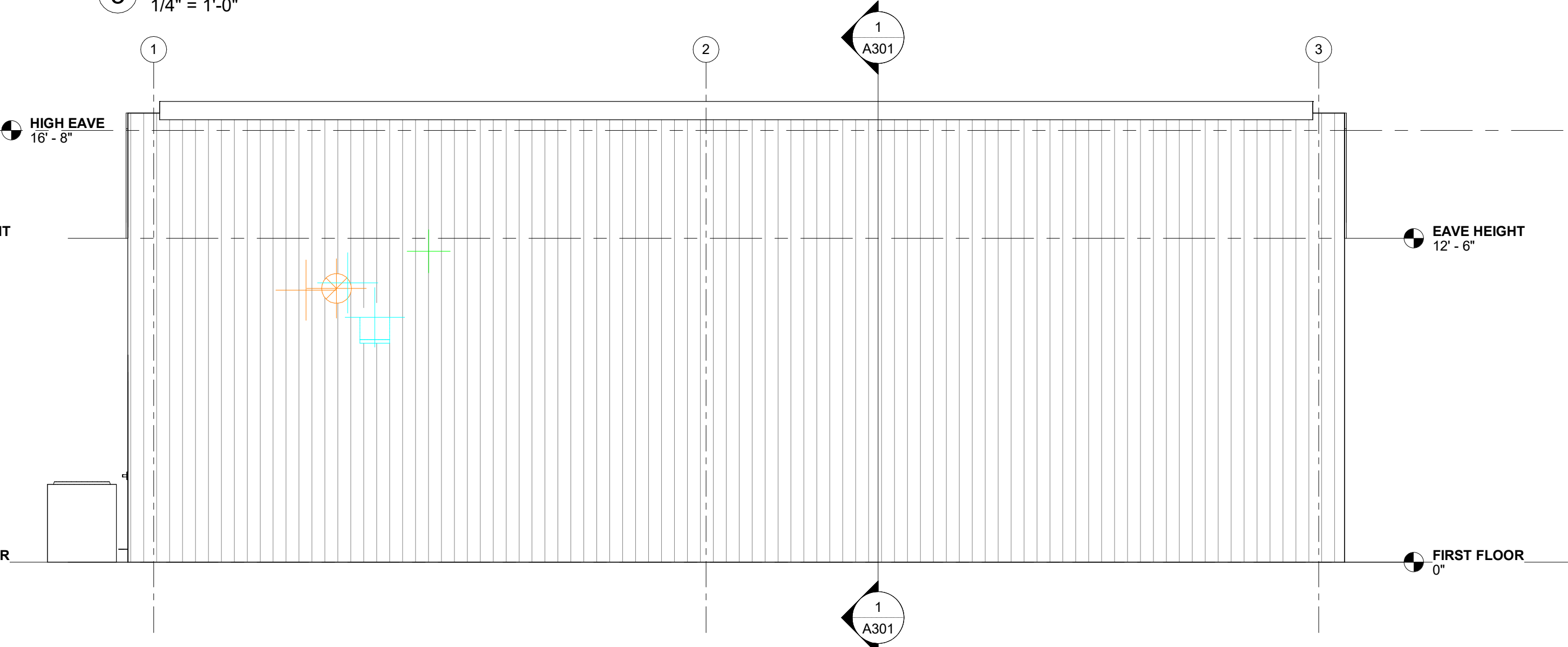
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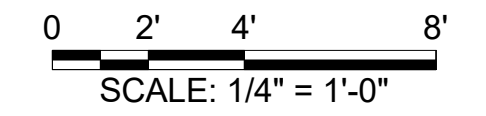
3 EAST BUILDING ELEVATION
 1/4" = 1'-0"



2 SOUTH BUILDING ELEVATION
 1/4" = 1'-0"



4 WEST BUILDING ELEVATION
 1/4" = 1'-0"



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REVISION HISTORY		
DESCRIPTION	DATE	APPR

ISSUED FOR: 10/30/2024
 DESIGN DEVELOPMENT

PRELIMINARY
 NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM
 HALLSVILLE R-V HIGH SCHOOL DISTRICT
 421 MO-124 E, HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced sized plans may not conform to standard scales.	
DESIGNED: JRT	DRAWN: JRT
FIELD: JRT	FIELD BOOK: JRT
CHECKED: Checker	CHECK DATE:

SHEET TITLE
 BUILDING ELEVATIONS

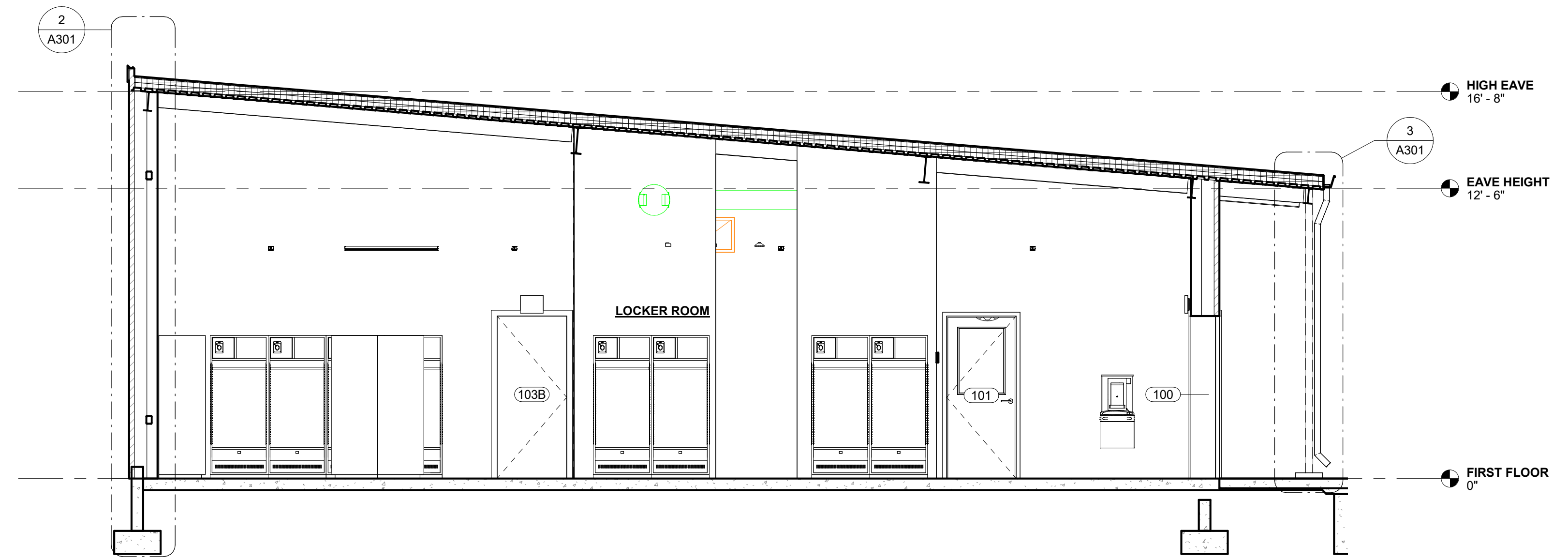
PROJECT NO.
 24-5008

DRAWING ISSUED DATE:
 09/27/2024

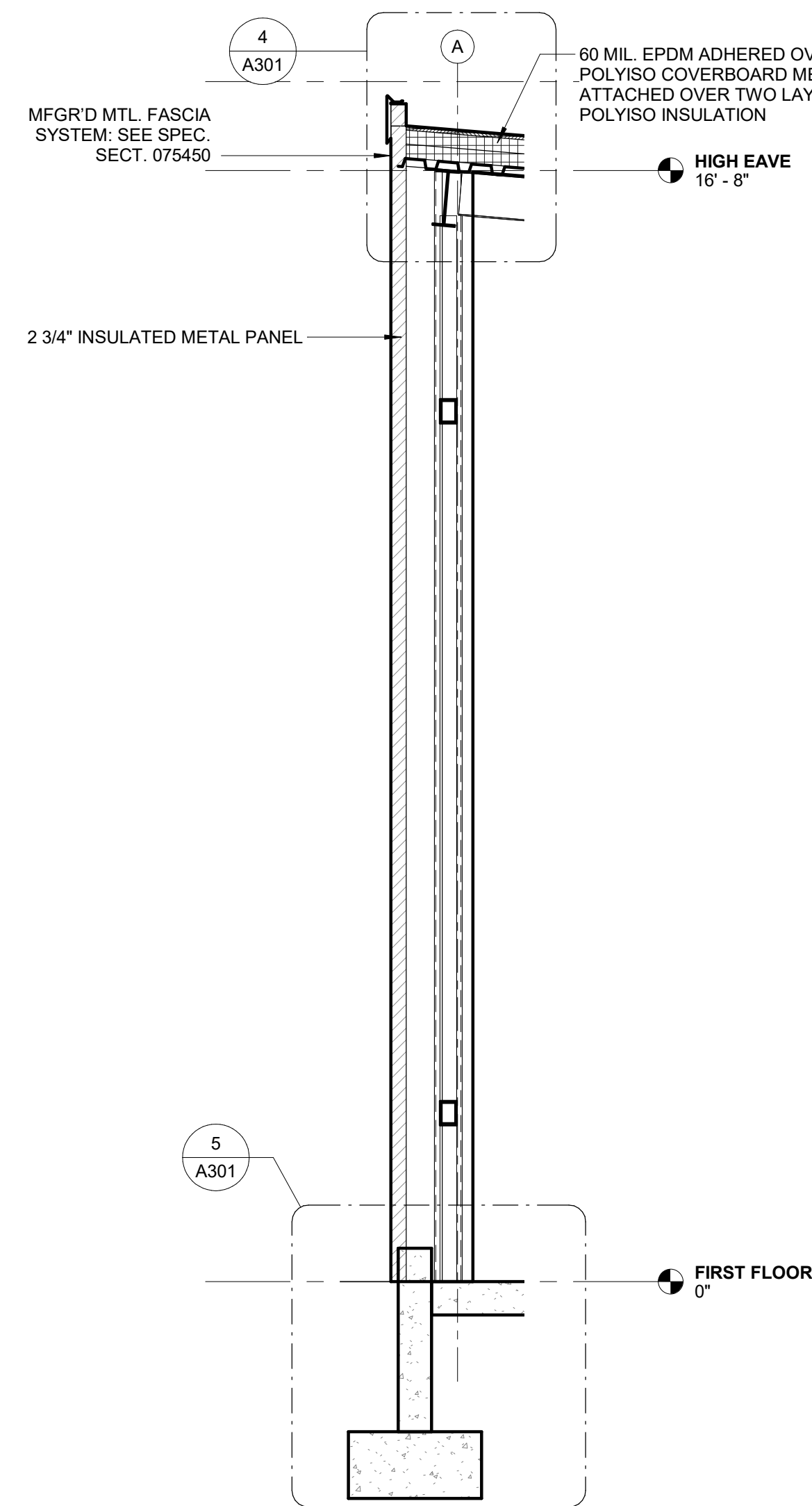
SHEET
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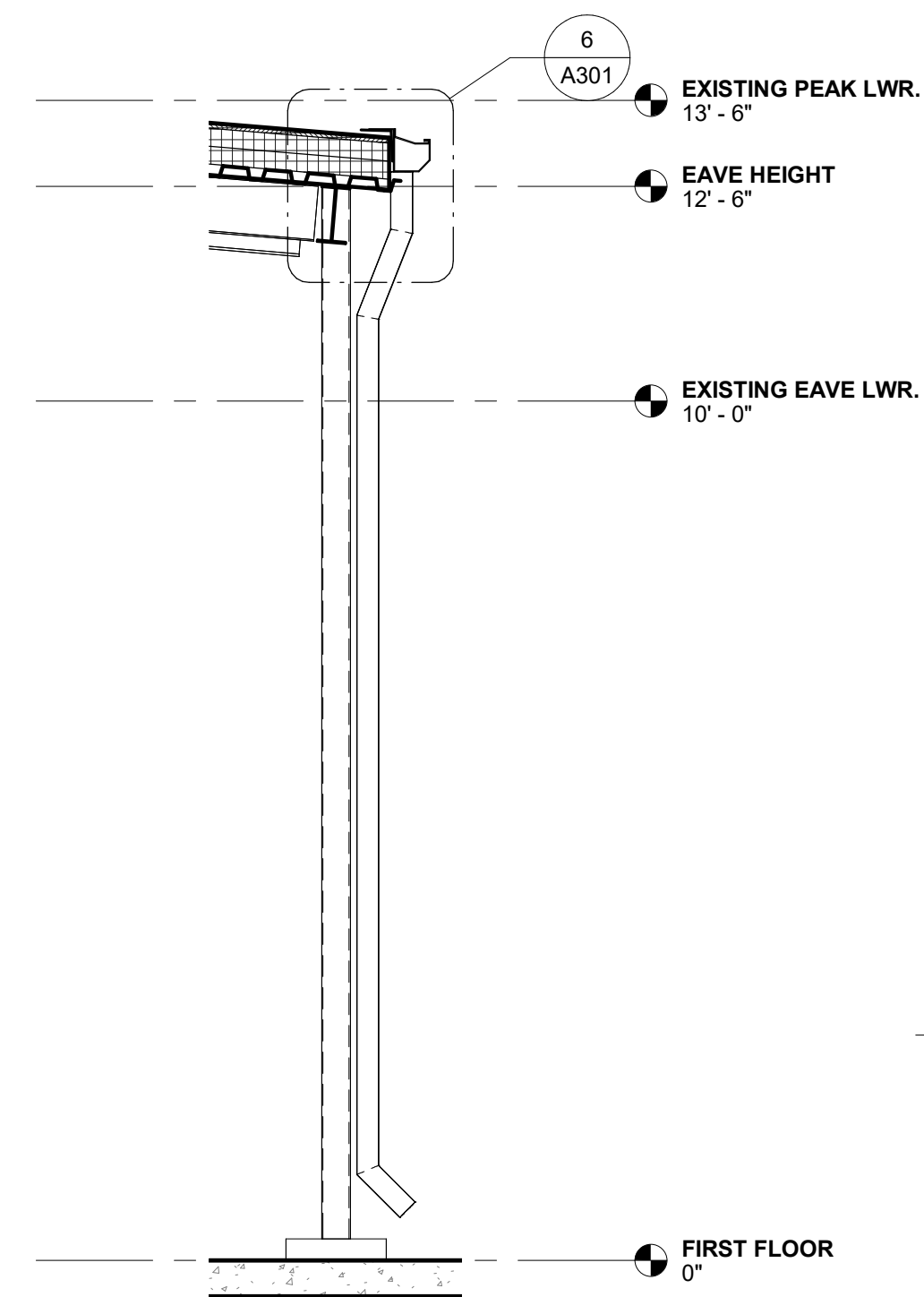
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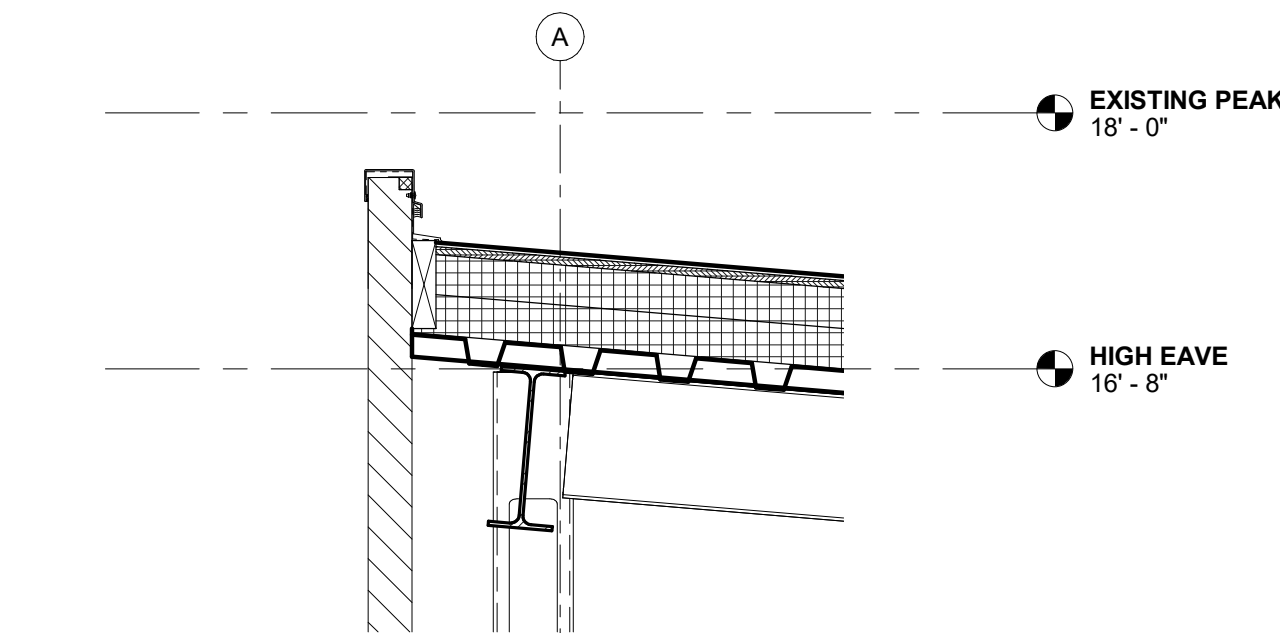
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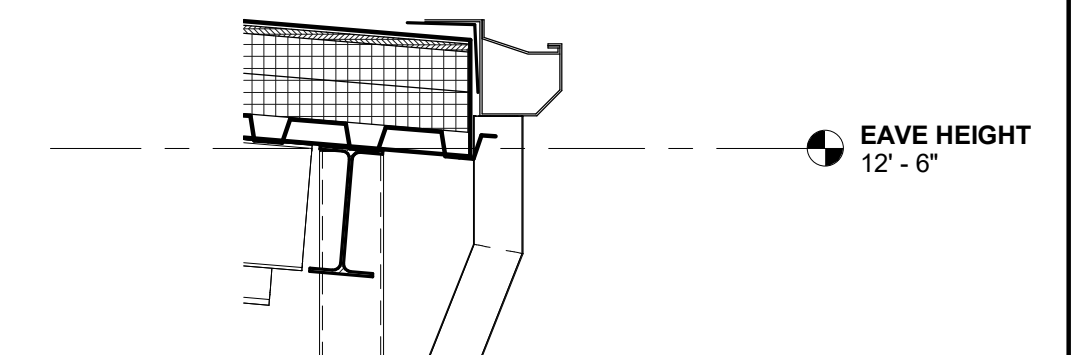
2 TYPICAL HIGH EAVE WALL SECTION
 1/2" = 1'-0"



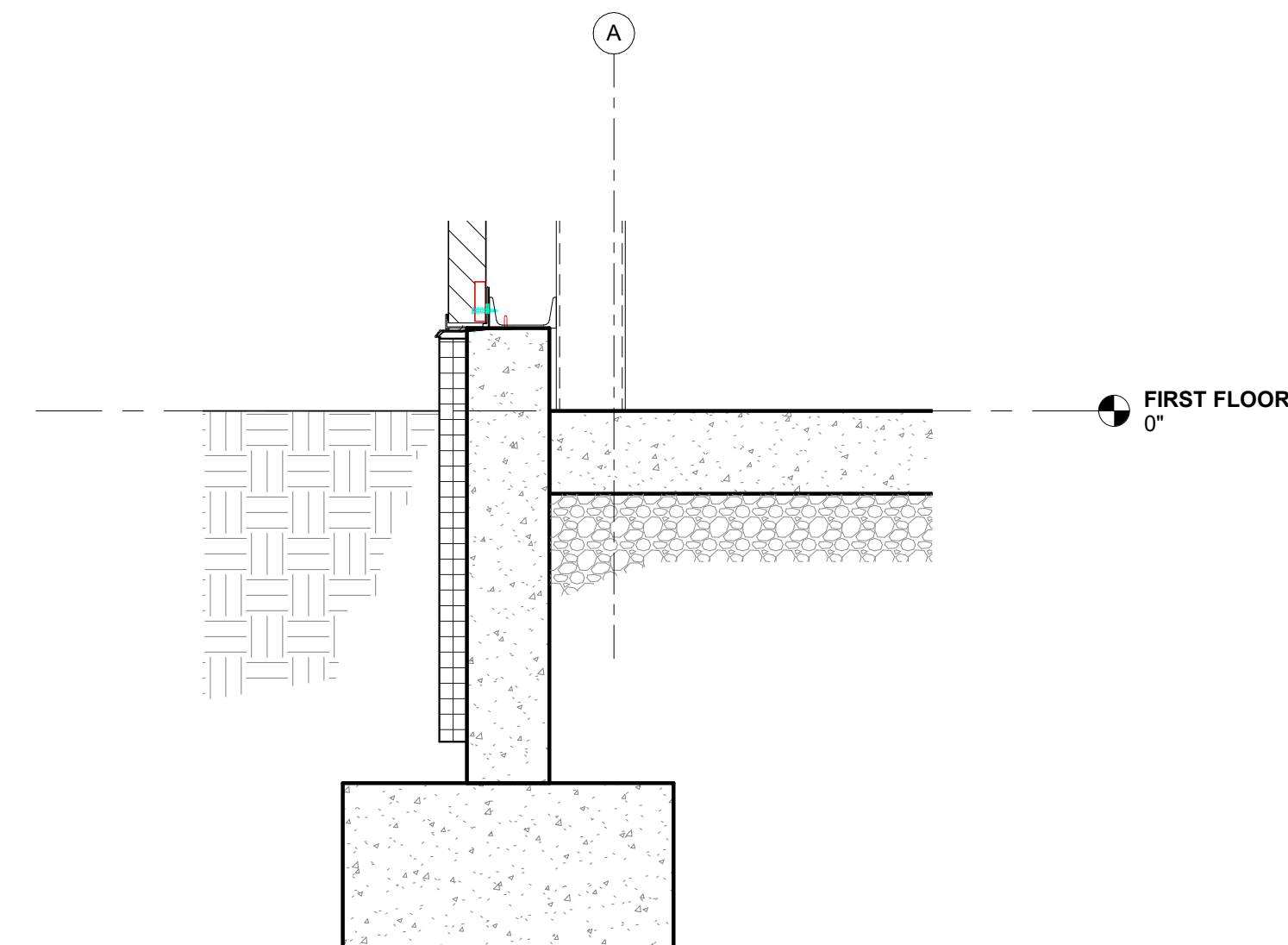
3 TYPICAL LOW EAVE WALL SECTION
 1/2" = 1'-0"



4 TYPICAL HIGH EAVE WALL SECTION - Callout 1
 1" = 1'-0"



6 TYPICAL LOW EAVE WALL SECTION - Callout 2
 1" = 1'-0"



5 TYPICAL HIGH EAVE WALL SECTION - Callout 2
 1" = 1'-0"

0 1' 2' 4'
 SCALE: 1/2" = 1'-0"

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REVISION HISTORY

DESCRIPTION	DATE	APPR

ISSUED FOR: 10/30/2024
 DESIGN DEVELOPMENT

PRELIMINARY
 NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM
 HALLSVILLE R-IV HIGH SCHOOL DISTRICT
 421 MO-124 E, HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"
 Full sized plans have been prepared using standard scales.
 Reduced sized plans may not conform to standard scales.

DESIGNED: JRT	DRAWN: JRT
FIELD: JRT	FIELD BOOK: JRT
CHECKED: HMC	CHECK DATE:

SHEET TITLE
BUILDING SECTIONS
 PROJECT NO. 24-5008
 DRAWING ISSUED DATE: 10/30/2024
 SHEET
A301

DESIGN CRITERIA

- 1. BUILDING/DESIGN CODES:
A. IBC 2015
B. ASCE 7-10
2. DESIGN LOADS:
A. Risk Category III
B. Dead Loads
a. Roof Dead Load: Refer to Load Plans on S-010 for assumed dead loads.
b. Roof Collateral: 10 psf
c. See roof framing plan for additional loads (RTUs, Point Loads, etc.) and their locations.
C. Live Loads
a. Roof: 20 psf
D. Roof Snow Loads
a. Ground Snow Load, P_g, 20 psf
b. Flat Roof Snow Load, P_f, 15.4 psf
c. Minimum Snow Load, P_min, 22 psf
d. Uniform Roof Design Snow Load: 22 psf
e. Snow Importance Factor, I_s: 1.1
f. Roof Slope Factor, C_s: 1.0
g. Snow Exposure Factor, C_e: 1.0
h. Thermal Factor, C_t: 1.0
i. Rain-on-Snow Surcharge: 0 psf (Applies to Balanced Snow)
j. Drifting: See Snow Drift Plan on S-010 for Drift Loads
E. Wind Loads
a. Basic Wind Speed, V_b: 120 mph
b. Exposure Category, C
c. Directional Factor, K_d: 0.85
d. Topographic Factor, K_z: 1.0
e. Ground Elevation Factor, K_e: 1.0
f. Gust-effect Factor, G: 0.85
g. Internal pressure Coefficient, GC_p: +/-0.18
h. Main Wind Force Resisting System (MWFRS):
- Base Pressure, q_s: 26.6
i. Components & Cladding (C&C):
- Refer to Panel C&C Wind Pressure Diagram on S-010
F. Seismic Loading
a. Importance Factor, I_s: 1.25
b. Site Class D (assumed)
c. S_ms: 0.171 (S_s: 0.160)
d. S_ms: 0.146 (S_s: 0.091)
e. Seismic Design Category C
f. Seismic Force-Resisting System (Both Directions): Structural Steel Systems
Not Specifically Detailed for Seismic Resistance
1. Response Coefficient, R: 3.00
2. System Overstrength Factor, O_s: 2.50
3. Reflection Amplification Factor, C_r: 3.00
4. Seismic Response Coefficient, C_s: 0.071
g. Component Design per ASCE 7-10
h. Seismic Base Shear, V = W x C_s
3. DEFLECTION LIMITS:
A. 0.020"max allowable story drift.
B. Roof Framing: Vertical deflection of L/240 for live loads & L/180 for total loads.
C. Wall Secondary Framing: Lateral deflection of L/90 for 10yr Wind.

EXISTING WORK

- 1. Existing conditions shown or noted on the drawings were obtained from field measurements, existing drawings, or were assumed. If conditions other than those shown exist, immediately notify the Engineer before proceeding with the work at that location. If conditions other than those shown exist, alternate methods of construction may need to be used.
2. Where specifically noted on the drawings that existing construction be verified, notify the Engineer in writing of the findings. Verification shall take place prior to preparation of shop drawings and shop drawings shall show all field verified existing conditions. Modifications to details may be required should actual condition significantly differ from those presumed. Any required modifications will be made during the review of the shop drawings.
3. Use appropriate construction methods and equipment as necessary to support existing structures and to avoid over stressing the existing structures.
4. Existing framing is assumed to be in original condition. If deterioration has occurred notify the Engineer in writing of the findings.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like AB AND ANCHOR BOLT, ALT ALTERNATE, ARCH ARCHITECT, BLDG BUILDING, BM BEAM, BO BOTTOM OF, BOT BOTTOM, BRG BEARING, BRDG BRIDGING, BTW BETWEEN, BYD BEYOND, CIP CAST IN PLACE, CL (C) CENTERLINE, CLR CLEAR, CMU CONCRETE MASONRY UNIT, COL COLUMN, CONC CONCRETE, CTR CENTER, DBA DEFORMED BAR ANCHOR, DBL DOUBLE, DIA (Ø) DIAMETER, DIAPH DIAPHRAGM, DL DEAD LOAD, DWLS DOWELS, EA EACH, EF EACH FACE, ELEV (EL) ELEVATION, EMBD EMBEDMENT, EW EACH WAY, EX EXISTING, FB FIELD BEND, FDN FOUNDATION, FF FINISHED FLOOR, FLR FLOOR, FTG FOOTING, FV FIELD VERIFY, GA GAUGE, GALV GALVANIZED, HDR HOT DIP GALVANIZED, HDR HEADER, HGR HANGER, HORIZ HORIZONTAL, HS HEADED STUD, HSS HOLLOW STRUCTURAL SECTION, HT HEIGHT, ID INSIDE DIAMETER, JST JOIST, LG LONG, LL LIVE LOAD, LLH LONG LEG HORIZONTAL, LLV LONG LEG VERTICAL, LONG LONGITUDINAL, LWC LIGHT WEIGHT CONCRETE, MAX MAXIMUM, MECH MECHANICAL, MFR MANUFACTURER, MIN MINIMUM, NO (#) NUMBER, NTS NOT TO SCALE, OC ON CENTER, OH OPPOSITE HAND, OHD OVERHEAD DOOR, OPNG OPENING, OPP OPPOSITE, PAR PARALLEL, PEMB PRE-ENGINEERED METAL BUILDING, PERP PERPENDICULAR, PL (E) PLATE, PSF POUNDS PER SQUARE FOOT, PT PRESSURE TREATED, REINF REINFORCING, RO ROUGH OPENING, RTU ROOF TOP UNIT, SCH SCHEDULE, SIM SIMILAR, SJ SLAB CONTROL/CONTRACTION JOINT, SL (S) STEEL LINE, SOG SLAB-ON-GRADE, STAGG STAGGERED, STD STANDARD, STIFF STIFFENER, TBR TO BE REMOVED, THK THICK, THRU THROUGH, T.O. TOP OF, TOC TOP OF CONCRETE, TOF TOP OF FOOTING, T.O.P. TOP OF PIER, TOS TOP OF STEEL, TOW TOP OF WALL, TRANS TRANSVERSE, TYP TYPICAL, UNO UNLESS OTHERWISE NOTED, VERT VERTICAL, W/ WITH, WF WIDE FLANGE, W/O WITHOUT, WP WORKING POINT, WWF WELDED WIRE FABRIC, W.R. WATER REDUCER

GENERAL

- 1. The structure is designed to be self-supporting and stable after it is fully completed. It is solely the contractor's responsibility to determine erection procedure and sequence and ensure the safety of the construction personnel, public, building and its components parts, and adjacent buildings and properties. This includes the addition of whatever temporary or permanent shoring, bracing, needling, underpinning, or sheet piling, etc. that may be necessary to brace new construction, adjacent buildings, so that the structure is braced for wind, seismic, gravity, construction loads, etc. and that no horizontal or vertical settlement or any damage occurs to the adjacent existing structure. Temporary supports shall be maintained in place until permanent supports and/or shoring and bracing are installed.
2. Fall protection shall be provided in accordance with Climax policies and procedures. It is the contractor's responsibility to read and understand Climax policies and procedures and apply them to this job.
3. It is the contractor's responsibility to enforce all applicable safety codes and regulations during all phases of construction.
4. The contractor shall perform all construction for the project in a manner and sequence that are based on accepted industry standards that recognize the interaction of the components that comprise the structure, without causing distress, unanticipated movements or irregular load paths as a result of the construction means and methods employed.
5. Construction loads shall not exceed design live loads. The contractor shall be responsible for all design required to support construction equipment used in constructing this project. Shoring and reshoring is the responsibility of the contractor.
6. Principal openings through the framing are shown on these drawings. The general contractor shall examine the project's drawings for the required openings and shall verify size and location of all openings with the mechanical contractor. Providing all openings required by the mechanical, electrical, piping, or other trades shall be part of the general contract, whether or not shown in the structural drawings. Any deviation from the openings shown on the structural drawings shall be brought to the engineer's attention for review.
7. All contractors are required to examine the drawings and specifications carefully, visit the site and fully inform themselves as to all existing conditions and limitations, prior to agreeing to perform the work. Failure to visit the site and familiarize themselves with the existing conditions and limitations will in no way relieve the contractor from furnishing any materials or performing any work in accordance with drawings and specifications without additional cost to the owner.
8. Contractor shall verify all dimensions and conditions at the job site before commencing work and shall report any discrepancies to the engineer.
9. Omissions or conflicts between various elements of the drawings, notes and details shall be brought to the attention of the engineer and resolved before proceeding with the work.
10. Details labeled "Typical Details" on drawings apply to situations occurring on the project that are the same or similar to those specifically detailed. Such details apply whether or not details are referenced at each location. Notify engineer for clarification regarding applicability of "Typical Details".
11. Work these drawings with all other discipline drawings.
12. Do not scale drawings.
13. Should any of the general notes conflict with any details, instructions on plans, or specifications, the strictest provision shall govern.
14. Shop drawings and submittals:
A. These drawings shall be checked and coordinated with other materials and contracts by the general contractor and shop drawings and submittals shall bear the contractor's review stamp with the checker's initials before being submitted to the engineer for approval.
B. When the fabricator has been authorized to use the architect and engineer's drawings as erection drawings, the fabricator must remove all title blocks, professional seals and any other reference to the engineer from that erection drawing. The fabricator's name and title shall be placed on the erection drawing.
C. Any deviations from these drawings shall be noted and brought to the attention of the Engineer.

CAST-IN-PLACE CONCRETE

- 1. All concrete construction shall conform to ACI 301, "Specification for Structural Concrete" and ACI 302, "Guide for Concrete Floor and Slab Construction", ACI 305 "Specification for Hot Weather Concrete" and ACI 306, "Standard Specification for Cold Weather Concrete", unless noted otherwise for the year referenced in the building code noted.
2. All detailing, fabrication and placing of reinforcing bars, unless otherwise noted, shall conform to ACI 318, "Building Code Requirements for Structural Concrete", ACI 117, "Specification for Tolerances for Concrete Construction and Materials", and the latest ACI detailing manual.
3. Concrete Types:
A. Interior Concrete (Interior Slab-on-Grade & Interior Footings):
a. Max Water-Cement Ratio = 0.45
b. Specified 28-day Compressive Strength, f'_c = 4000 psi
c. Specified Air Content % by Volume = 0 - 3 (Entrapped)
d. Max Size Aggregate = 1"
B. Concrete Permanently Exposed to Weather or in Contact with Ground within Frost Zone (Exterior Slabs, Exterior Walls, Exterior Footings):
a. Max Water-Cement Ratio = 0.45
b. Specified 28-day Compressive Strength, f'_c = 4500 psi
c. Specified Air Content % by Volume = 6.5 ± 1.5 (Entrained)
d. Max Size Aggregate = 3/4"
C. All cement shall be Type I or Type III Portland Cement per ASTM C150. Types IA and IP are not acceptable. Use one brand of cement throughout the project.
D. Minimum cementitious content shall consist of 100% cement or a combination of flyash per Note e, or a combination of cement and ground granulated blast furnace slag (GGBFS) per note f. Flyash shall not be used in combination with GGBFS as a substitute for cement.
E. Flyash is permitted and shall conform to ASTM C618 Type C or F, but shall not exceed 20% of cementitious content by weight indicated above on a substitution basis and shall be included in the water-cement ratio.
F. Ground granulated blast furnace slag (GGBFS) is permitted and shall conform to ASTM C989, but shall not exceed 15% of cementitious content by weight indicated above on a substitution basis and shall be included in the water-cement ratio.
G. All admixtures other than superplasticizers shall be added at the batch plant. Superplasticizers, designed for addition to the mix at the plant, may be added at the batch plant with verifications from the engineer and verification that the water-cement ratio has not been exceeded. Superplasticizers added at the site shall be in pre-measured containers from the batch plant.
H. All concrete used for cast-in-place concrete slabs shall contain the specified water reducing or water reducing/retarding admixture. All concrete slabs, placed at air temperature 50°F shall contain the specified non-corrosive, non-chloride accelerator. All concrete placed at air temperature above 80°F shall contain specific water-reducing/retarder admixture. All concrete required to be air-entrained shall contain an approved air-entraining admixture. All pumped concrete shall contain the specified high-range water-reducing admixture. Concrete with a water-cement ratio between 0.4 and 0.6 shall contain the specified water-reducer.
1. Calcium chloride shall not be permitted nor shall any admixture containing calcium chloride be permitted.
4. All pipe sleeve openings through concrete slabs and foundations shall be formed with standard steel pipe. Sleeves to be provided for storm water, fire protection, and other penetrations as required. Coordinate with other disciplines. All pipe sleeves to be sealed with Link-Seal.
5. All aluminum in contact with concrete or dissimilar metals shall be coated with two coats of coal tar epoxy, approved by the engineer, unless otherwise noted.
6. Concrete shall be discharged at the site within 1 1/2 hours after water has been added to the cement and aggregates. Addition of water to the mix at the project site will not be permitted. All water must be added at the batch plant. Slump may be adjusted only through the use of additional water reducing admixtures or high range water reducing admixture.
7. All concrete shall be placed without horizontal construction joints, except where specifically noted.
8. All exposed edges of concrete members shall be chamfered 3/4" unless shown otherwise.
9. The placement of sleeves, outlet boxes, box-outs, anchors, etc., for the mechanical, electrical and plumbing trades is the responsibility of the trade involved; however, any box-outs not covered by typical details in structural drawings shall be submitted for approval.
10. Reinforcing bars shall conform to ASTM A615, Grade 60, No tack welding of reinforcing in the field will be permitted.
11. Reinforcing bars for welded applications shall conform to ASTM A706, 60 ksi yield strength.
12. Wire bar supports shall be furnished for all reinforcing within slabs, inclusive of welded wire fabric. Bottom bars in slabs-on-grade may be supported by other suitable supports. Reinforcing shall be properly positioned prior to concrete placement and may not be re-positioned once concrete operations have begun. Wire bar and other types of supports shall be in accordance with the concrete reinforcing steel institute manual of standard practice.
13. Reinforcement shall be continuous through all construction joints unless otherwise noted on drawings.
14. Saw-cut control/contraction joints shall be provided at spaces no more than 24"(slab thickness), with a maximum long-side:short-side ratio of 1.5:1. Location of control/contraction joints and construction joints are the responsibility of the Contractor. A slab joint layout plan shall be provided by the Contractor.
15. All hooks shown on drawings shall be standard hooks, unless otherwise noted.
16. Where continuous bars are called for, they shall run continuously around corners and be lapped at necessary splices. Lap lengths shall be as given in the splice and development table.
17. Provide additional reinforcing at the sides and corners (including re-entrant) of all openings in concrete in accordance with the typical details and the following:
A. Minimum additional requirements are as follows:
a. (2) #5 bars (one top and one bottom) in concrete slabs-on-grade
b. (2) #5 bars (one on each face) in walls
c. (2) #5 x 4'-0" long bars diagonally at each corner in walls
18. The following minimum concrete cover shall be provided for reinforcement, unless otherwise noted:
A. Earth formed and cast directly against soil: 3"
B. Cast against forms but exposed to earth and weather
a. #6 and Larger: 1 1/2"
b. #5 and Smaller: 1 1/2"
C. Slabs and walls not exposed to earth or weather: 3/4"
D. Others: 2"
19. Reinforcing bars shall have a minimum clear spacing of 4" (except those that are lapped).
20. Splice lengths per detail
A. When lapping two different size bars, use the lap dimension of the smaller bar or the anchorage dimension of the larger bar, use whichever dimension is larger.

ANCHORS & GROUT

- 1. Detailing, fabrication and erection shall conform to the AISC Specifications and Standard Code of Practice for the year referenced in the building code noted, except as modified by these notes and the project specifications.
2. Steel shall conform to the following grades unless otherwise noted:
A. Cast-in-Place Anchor Rods (Bolts):
a. Building Columns - ASTM F1554 Grade 36 (Fy=36 ksi) (If exposed to weather or in contact with treated lumber, Hot Dip Galvanize per ASTM A123)
B. Heavy Hex Nuts - ASTM A563 Grade A
C. Washers
a. Standard size holes: ASTM F844
b. Oversized holes: ASTM A572 Grade 50 Plate Washers
c. Field-welded plate washers at all holes: A36 Plate Washers
D. Deformed Bar Anchors (DBA) - ASTM A1064 (Grade 70) or AWS D1.1
E. Welding Electrodes - E70xx
3. Hot dip galvanize per ASTM A123. Repair galvanized surfaces according to ASTM A780.
4. Unless being galvanized, all structural steel shall be primed. Asphaltic paints are not acceptable. Exposed steel shall be painted per Painting Specification, Field Touch up Primer and Paint.
5. All welding shall be in accordance with the "Structural Welding Code", AWS D1.1, Latest Edition.
6. Anchor Rods shall be located using templates with exposed threads (only) of rods grouted after concrete has set.
7. Grout for Baseplates: Prepacked, non-metallic, non-gaseous and non-shrink per CRD C621 and ASTM C1107 at fluid consistency (flow cone) of 20-30 seconds. Minimum 28-Day Compressive Strength = 5000 PSI.

POST INSTALLED ANCHORS

- 1. Concrete adhesive anchors Hilti HY200 or approved equal. Concrete Mechanical Anchors Hilti Kwik Bolt TZ2 or approved equal.
2. Submit ICC-ES reports for all post installed anchors.
3. Install all post installed anchors per the product's ICC-ES report and the manufacturer's written instructions.
4. Post installed anchors shall be inspected per the product's ICC-ES report.
5. Install adhesive anchors in dry hammer drilled holes.

STRUCTURAL STEEL

- 1. Detailing, fabrication and erection shall conform to the AISC Specifications and Standard Code of Practice for the year referenced in the building code noted, except as modified by these notes and the project specifications.
2. Steel shall conform to the following grades unless otherwise noted:
A. W Shapes - ASTM A992 Grade 50 (Fy=50 ksi)
B. Plates (excluding base plates), Angles, M, S, and C Shapes - ASTM A572 Grade 50 (Fy=50 ksi)
C. Base Plates - ASTM A572 Grade 50 (Fy=50 ksi)
D. Brace Rods - ASTM A572 Grade 50 (Fy=50 ksi)
E. HSS Rectangular Shapes - ASTM A500 Grade C (Fy=50 ksi)
F. HSS Round Shapes - ASTM A500 Grade C (Fy=46 ksi)
G. Pipes - ASTM A53 (Fy=35 ksi)
H. Bolts - ASTM F3125, Type A325-N, 3/4" Ø minimum.
I. Washers - ASTM F436
J. Welding Electrodes - E70xx
3. Unless being Galvanized, all structural steel shall be primed. Asphaltic paints are not acceptable.
4. All column base plates shall have a minimum of four (4) anchor rods.
5. The minimum plate thickness shall be 3/8", unless otherwise noted.
6. The minimum length of connection angle shall be equal to 1/2 the depth of the member to be supported.
7. Bolts not designated and slip critical bolts shall be considered bearing bolts. Tighten bearing bolts to a snug condition per AISC Specifications.
8. All welding shall be in accordance with the "Structural Welding Code", AWS D1.1, Latest Edition.
9. Fabricate all beams with the mill camber up.
10. General contractor shall verify all structural beam locations, mechanical unit weights, and opening sizes and locations with mechanical contractor and vendor's drawings for actual mechanical unit purchased.
11. Splicing of structural members where not detailed on the drawings is prohibited without prior approval of the structural engineer.
12. Cuts, holes, coping, etc. required for work of other trades shall be shown on the shop drawings and made in the shop. Cuts or burning of holes in the structural steel members in the field will not be permitted, unless specifically approved in each case by the engineer.
13. Anchor Rods shall be located using templates with exposed threads (only) of rods grouted after concrete has set.
14. Grout for Baseplates: Prepacked, non-metallic, non-gaseous and non-shrink per CRD C621 and ASTM C1107 at fluid consistency (flow cone) of 20-30 seconds. Minimum 28 Day Compressive Strength = 7000 PSI.
15. Hot dip galvanize after fabrication all exterior exposed structural steel members per ASTM A123 and all exterior fastening components per ASTM A153, unless noted otherwise. Repair galvanized surfaces according to ASTM A780.
16. Slip critical bolts shall be used at moment connections, column splices, and cross bracing connections, unless noted otherwise. Slip critical bolts shall be tightened per AISC Specifications.
17. Unless otherwise noted, all connections at HSS sections shall be designed and detailed in accordance with the AISC "Hollow Structural Sections Connection", first edition.
18. Installing contractors will be responsible for anchoring all equipment. Contractors to post-install anchors using epoxy as specified in the project manual. Assume anchors are 1" diameter and 18" long with an embed of 6" - 10". Final details will be provided to the winning contractor as the information becomes available.

METAL DECKING

- 1. Fabricated roof decks, without top-flange stiffening grooves, shall comply with "Steel Deck Institute (SDI) Standard for Steel Roof Decks" in ANSISDI RD-2010.
2. Deck shall be prime painted by the manufacturer. Exposed deck shall be painted per painting specification.
3. Lap deck 4" minimum at splices center on support.
4. Deck manufacturer shall coordinate size and location of roof openings with architectural and mechanical drawings and suppliers.
A. Furnish 2x4 wood blocking beneath deck flutes at bearing at steel supports beneath mechanical units to prevent crushing of deck.
B. Mechanical units shall be attached to the structural steel framing.
C. Unless noted otherwise, all openings in metal roof deck shall have 4x4x1/4 angle frame set between joists. Support mechanical equipment with 4x4x1/4 angles laid between joists and 4x4x5/16 angles (length + mechanical unit + 2"-0" or 4"-0" minimum) welded to top of bottom chord of joists to distribute load to joist panel points. Where curb is parallel to joist, maximum spacing between angles laid between joists shall be 6'-0", or as required by equipment manufacturer, whichever is less.
5. No light gage framing, mechanical, electrical or other equipment shall be suspended from or attached to any metal roof deck.
6. See drawings for deck attachment patterns and galvanized coatings.



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REVISION HISTORY

Table with 4 columns: No., Description, Date, Appr.

ISSUED FOR 11/05/2024

DESIGN DEVELOPMENT

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM
HALLSVILLE R-IV HIGH SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"

Full sized plans have been prepared using standard scales. Reduced sized plans may not conform to standard scales.

Table with 2 columns: DESIGNED, DRAWN. Includes entries for JEK, AJK, FIELD BOOK.

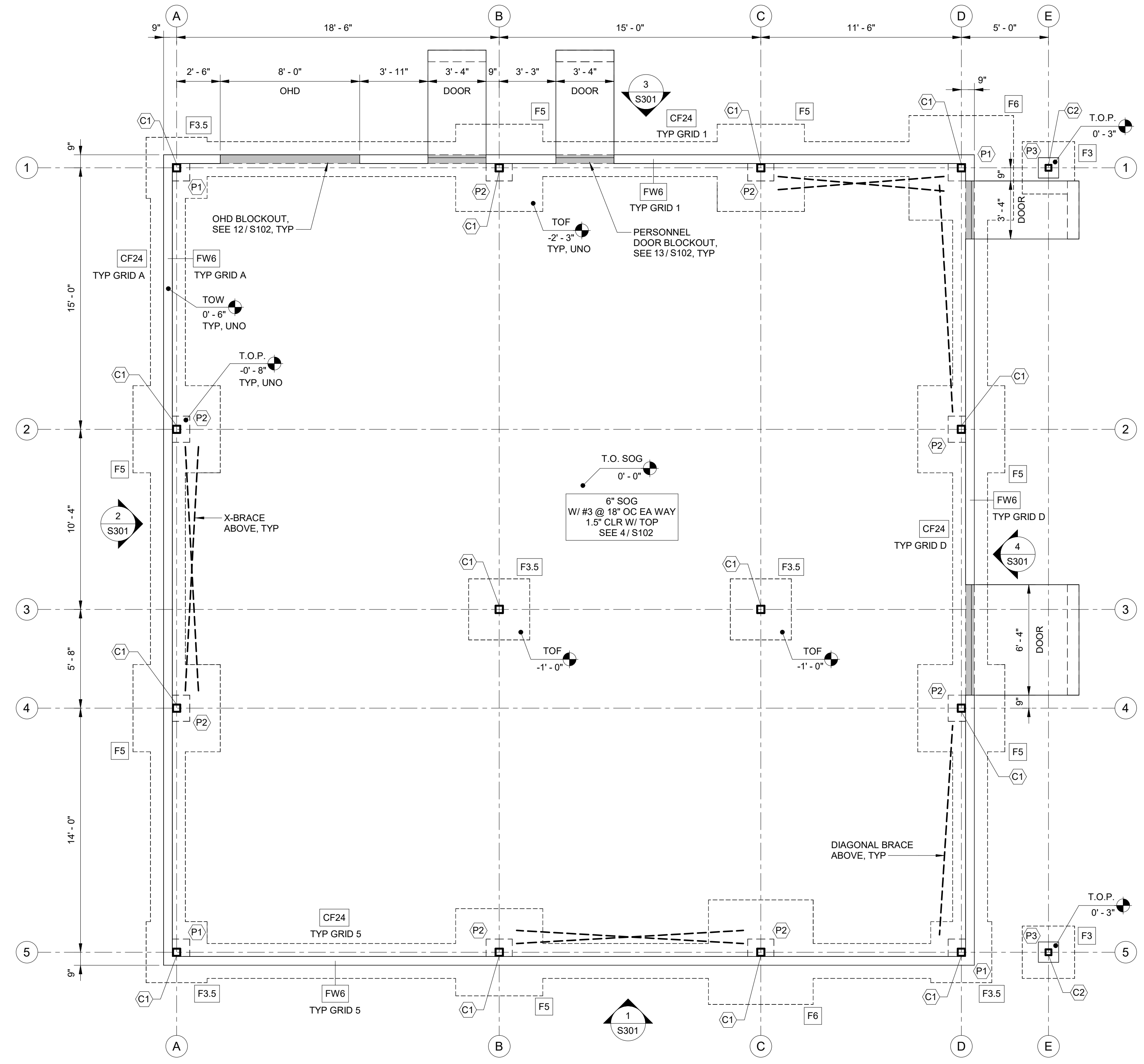
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SHEET TITLE
STRUCTURAL NOTES

PROJECT NO. 24-5008
DRAWING ISSUED DATE: 11/08/2024
SHEET

S001

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1 LOCKER ROOM FOUNDATION PLAN
 1/4" = 1'-0"

- FOUNDATION PLAN GENERAL NOTES:**
- SEE S001 FOR DESIGN CRITERIA & ABBREVIATIONS.
 - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
 - DIMENSIONS TO EXISTING STRUCTURE TO BE VERIFIED PRIOR TO COMMENCING CONSTRUCTION.
 - WHERE STRIP FOOTING ELEVATIONS ARE NOT IDENTIFIED, REFER TO ADJACENT PAD FOOTING ELEVATIONS.
 - PAD FOOTINGS ARE TO BE CENTERED UNDER COLUMN BASE PLATES, UNO ON PLAN OR DETAILS.
 - STRIP FOOTINGS ARE TO BE CENTERED UNDER FOUNDATION WALLS, UNO ON PLAN OR DETAILS.
 - FOUNDATION AND SLAB SUBGRADES TO BE PREPARED PER GEOTECH REPORT.
 - REINFORCEMENT SHOWN IN DETAILS ON FOLLOWING SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY. SEE SCHEDULES FOR ACTUAL REINFORCEMENT.
 - TEMPORARY SHORING PER CONTRACTOR. DESIGN BY OTHERS.

FOOTING SCHEDULE				
MARK	SIZE	THICKNESS	MAIN REINFORCEMENT	COMMENTS
CF24	24" WIDE STRIP FTG	1'-0"	(3) #5 BARS, BOT	
F3	3'-0" x 3'-0" PAD FTG	1'-0"	(3) #5 BARS EA. WAY, BOT	
F3.5	3'-6" x 3'-6" PAD FTG	1'-0"	(3) #5 BARS EA. WAY, BOT	
F5	5'-0" x 5'-0" PAD FTG	1'-0"	(5) #5 BARS EA. WAY, BOT	
F6	6'-0" x 6'-0" PAD FTG	1'-0"	(6) #5 BARS EA. WAY, BOT	

- NOTES:**
- SEE FOOTING DETAILS ON SHEET S102 & S103.
 - CENTER PAD FOOTINGS BELOW COLUMN OR PIER, UNO.
 - CENTER STRIP FOOTINGS BELOW FOUNDATION WALL OR BEARING WALL, UNO.
 - ALL PIERS ARE TO BE A MIN. OF 3" LARGER THAN BASE PLATES AT EACH EDGE, UNO.
 - STRIP FOOTING REINFORCEMENT TO RUN CONTINUOUS THROUGH PAD FOOTINGS.

FOUNDATION WALL SCHEDULE					
MARK	THICKNESS	HORIZONTAL REINF	VERTICAL REINF	DOWELS	REINF. LAYERS
FW6	0'-6"	#4 @ 16" OC	#4 @ 24" OC	MATCH VERTS	SINGLE MAT

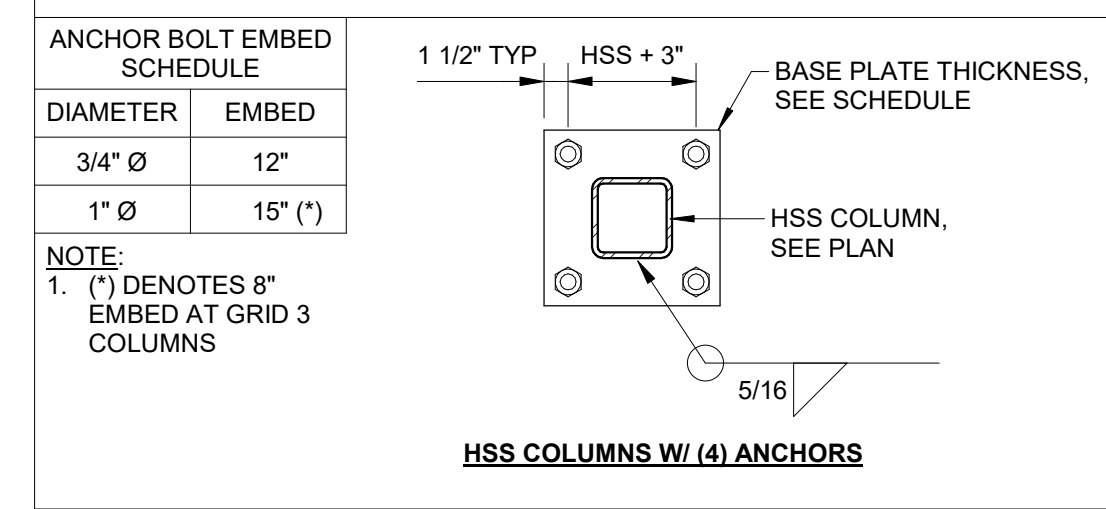
- NOTES:**
- SEE DETAIL 11/ S102.
 - CENTER STRIP FOOTING BELOW WALL, IF APPLICABLE.
 - VERIFY T.O. WALL ELEVATIONS AND LOCATIONS WITH ARCH DRAWINGS.
 - UNLESS REINF. EACH FACE IS NOTED, VERT. BARS OF SINGLE MAT IS TO BE CENTERED IN WALL.

PIER SCHEDULE					
MARK	EL. @ TOP	SIZE ('A' x 'B')	VERTICAL REINF	TIES	COMMENTS
P1	-0'-8"	18" x 18"	(8) #5 BARS	#3 @ 10" OC	SEE 4/ S103
P2	-0'-8"	18" x 18"	(8) #5 BARS	#3 @ 7" OC	SEE 5/ S103
P3	+0'-3"	14" x 14"	(4) #5 BARS	#3 @ 7" OC	SEE 6/ S103

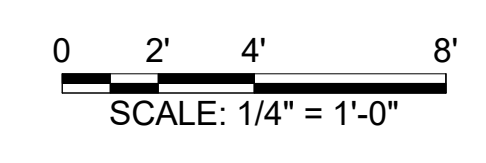
- NOTES:**
- REFERENCE DETAILS FOR 'A' & 'B' DIMENSION ORIENTATION.
 - VERTICAL REINFORCING TO BE SPREAD EVENLY AROUND PERIMETER OF PIER.
 - SEE DETAILS FOR THE SPACING AT TOP OF PIER & CROSS TIE LOCATIONS.
 - FOUNDATION WALL REINFORCEMENT TO RUN CONTINUOUS THROUGH PIER.

COLUMN SCHEDULE							
MARK	SIZE	INSTALL	ANCHORS	PROJECTION	BASE PLATE THICKNESS	HOLE DIAMETER	COMMENTS
C1	HSS5X5X1/4	CIP W/ DBL NUT & WASHER @ EMBEDDED END	(4) 1"Ø F1554 GR 36 W/ 1.5" GROUT	5"	1" THICK	1 7/8"Ø (OVERSIZE)	FIELD-WELDED PLATE WASHERS REQ'D AT BRACED FRAME COLS
C2	HSS4X4X3/16	CIP W/ DBL NUT & WASHER @ EMBEDDED END	(4) 3/4"Ø F1554 GR 36 W/ 1.25" GROUT	4"	3/4" THICK	1 5/16"Ø (OVERSIZE)	

- NOTES:**
- IF F1554 GR 55 ANCHORS RODS ARE REQUIRED PER SCHEDULE, THEY SHALL BE PROVIDED WITH THE S1 SUPPLEMENT.
 - EMBEDMENT LENGTH (SEE SCHEDULE BELOW) IS TO BE MEASURED FROM T.O. CONCRETE TO T.O. WASHER.
 - SEE AISC 360 TABLE 14-2 FOR PLATE WASHER INFORMATION FOR OVERSIZED HOLES. PROVIDE 1/4" FILLET FIELD WELD ON (2) PERP EDGES OF EACH WASHER IF FIELD WELDING IS REQUIRED.



FOUNDATION PLAN LEGEND	
	INDICATES T.O.C. ELEVATION
	FOOTING TAG, SEE SCHEDULE
	FOUNDATION WALL TAG, SEE SCHEDULE
	PIER TAG, SEE SCHEDULE
	COLUMN TAG, SEE SCHEDULE
	WALL BRACING, SEE ELEVATIONS



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HALLSVILLE R-IV HIGH SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"
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DESIGNED	JEK	DRAWN	AJK
FIELD		FIELD BOOK	
CHECKED		CHECK DATE	

SHEET TITLE
LOCKER ROOM FOUNDATION PLAN

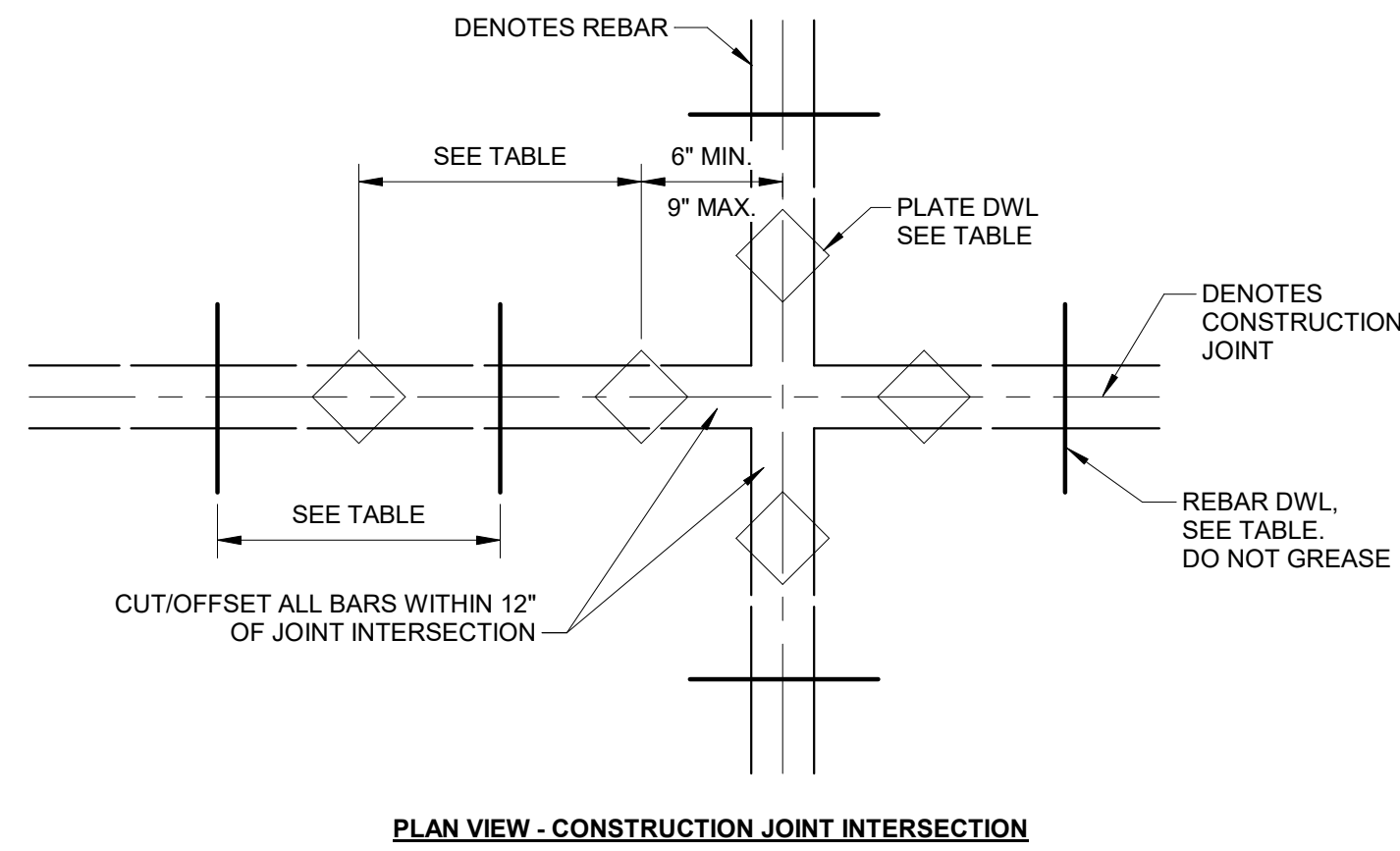
PROJECT NO.
24-5008
 DRAWING ISSUED DATE:
11/05/2024
 SHEET
S101

SIZE	MIN LAP	DEVELOPMENT
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"

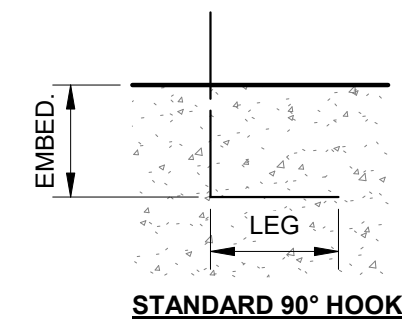
- ASSUMPTIONS:**
- $F_c = 4$ KSI
 - $F_y = 60$ KSI
 - TOP BARS
 - TENSION REINF.
 - CLASS "B" SPLICES
 - COVER > OR = 2" d_b
 - CLEAR SPACING > OR = 4 d_b

l (IN)	DOWEL	MAX SPACING, S (IN)
5 - 6	1/4" X 4 1/2" SQ W/ #3 X 24" LG	18" ALTERNATING
7 - 8	3/8" X 4 1/2" SQ W/ #3 X 24" LG	18" ALTERNATING

- NOTES:**
- PROVIDE DIAMOND DOWEL BRAND PLATE DOWELS OR APPROVED EQUIVALENT.



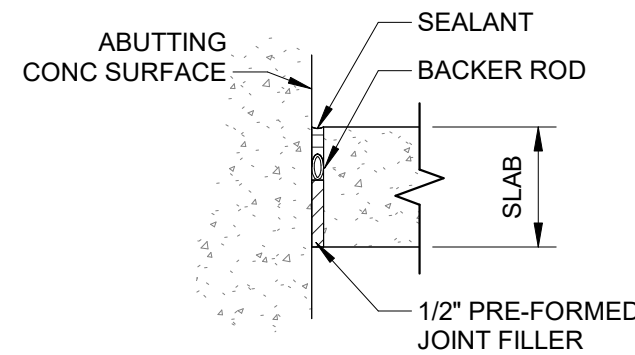
1 TYPICAL REBAR LAP AND DEVELOPMENT SCHEDULE NTS



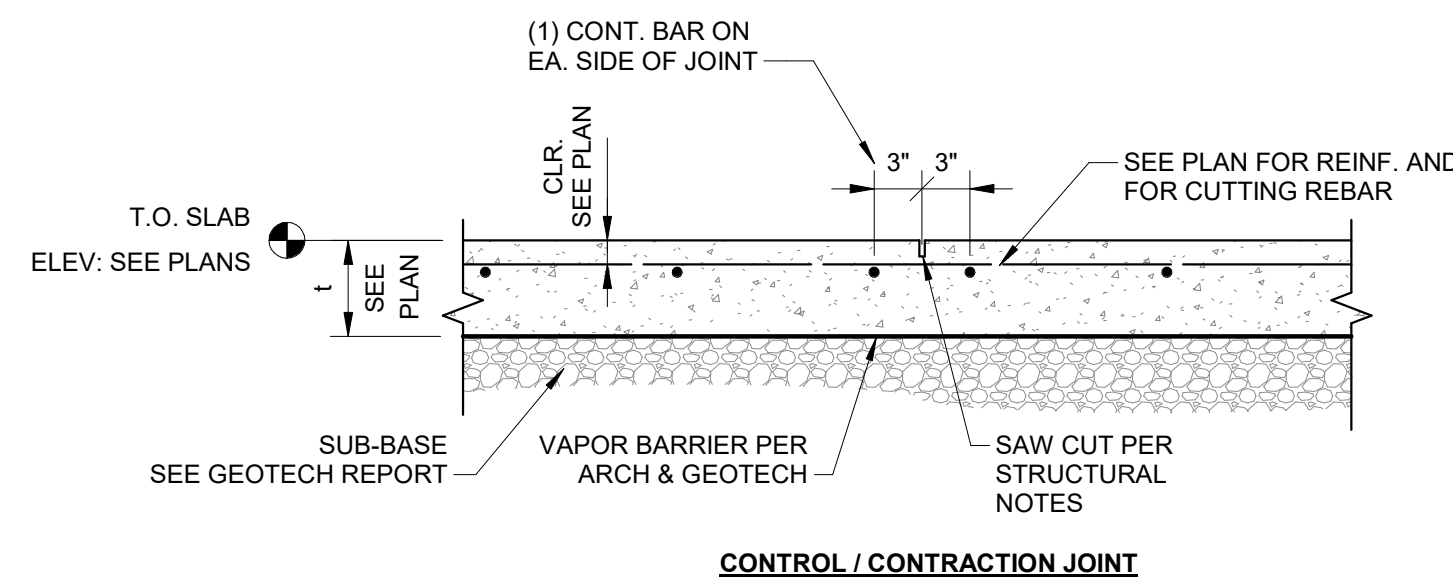
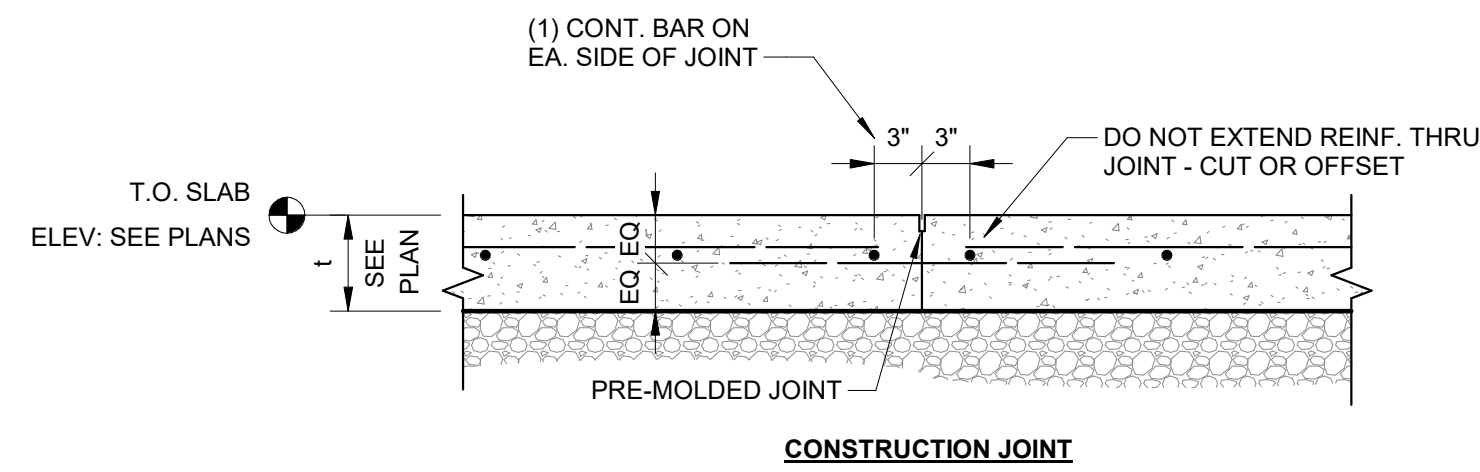
BAR	EMBEDMENT	LEG
#4	0'-7"	0'-8"
#5	0'-9"	0'-10"
#6	0'-10"	1'-0"
#7	1'-0"	1'-2"
#8	1'-2"	1'-4"

- ASSUMPTIONS:**
- $F_c = 4$ KSI
 - $F_y = 60$ KSI
 - CLASS "B" SPLICES
 - SIDE COVER > OR = 2.5"
 - END COVER > OR = 2" WITHOUT TIES AROUND HOOK

2 TYPICAL REBAR HOOK SCHEDULE NTS

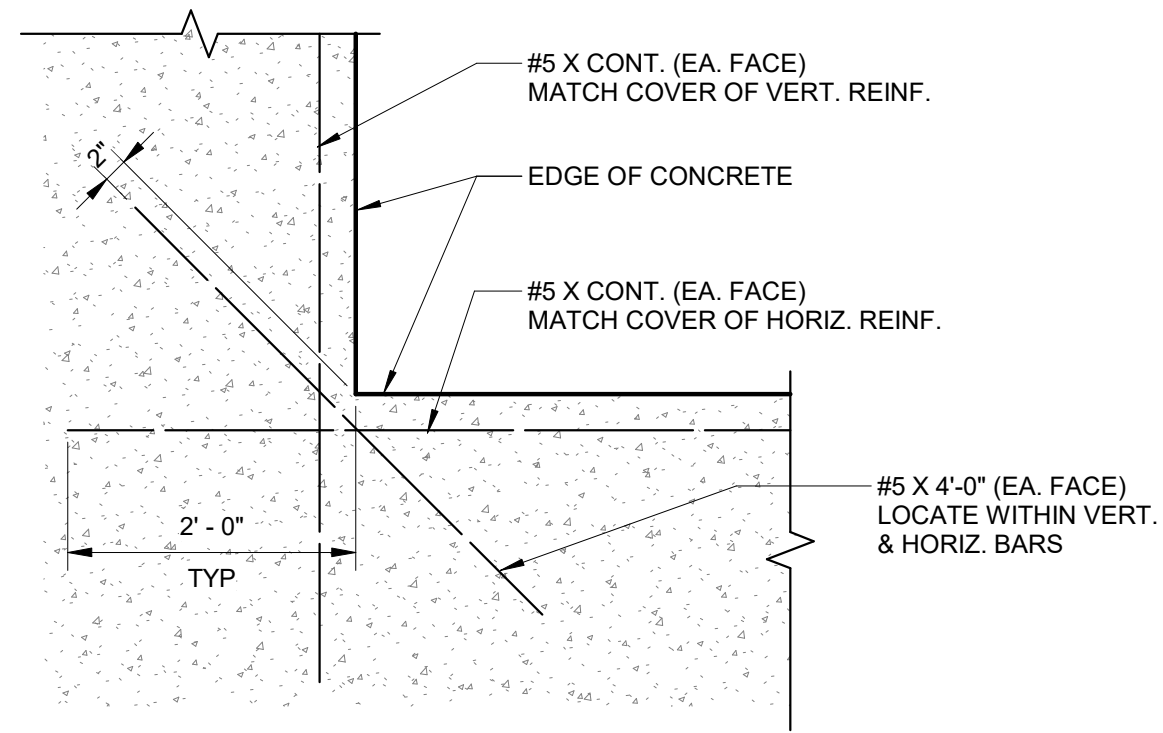


3 EXPANSION JOINT-SLAB TO WALL NTS



- NOTES:**
- CLR IS TO BE MEASURED FROM TOP OF SLAB TO TOP OF UPPERMOST REBAR.
 - CONTRACTOR'S OPTION TO SAWCUT OR PROVIDED PRE-MOLDED INSERT.
 - SAW CUTS TO BE MADE WITHIN 24 HOURS AFTER POUR.
 - IF CONCRETE MIX USES FIBERS, SAW CUT TO BE 1/8" WIDE AND 1/3 X 1" TALL.
 - OTHERWISE, SAW CUT TO BE 1/8" WIDE AND 1/4 X 1" TALL (MIN 1" TALL).

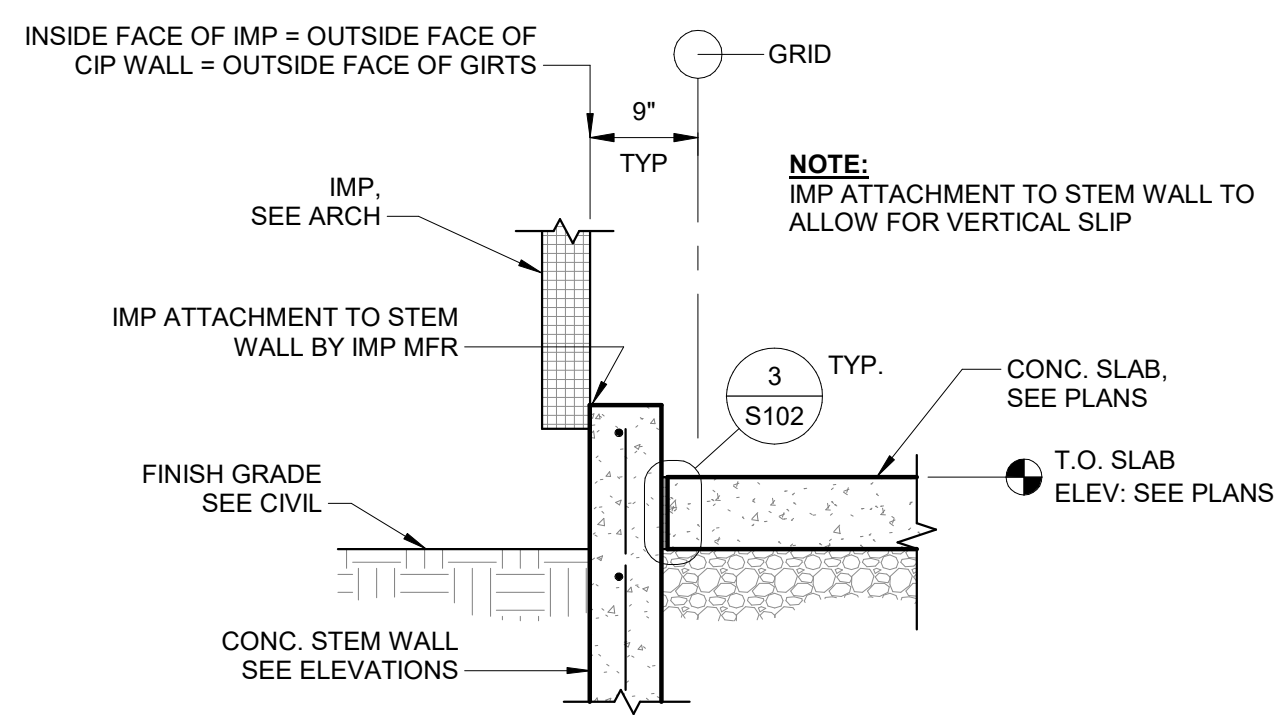
4 SLAB-ON-GRADE JOINTS NTS



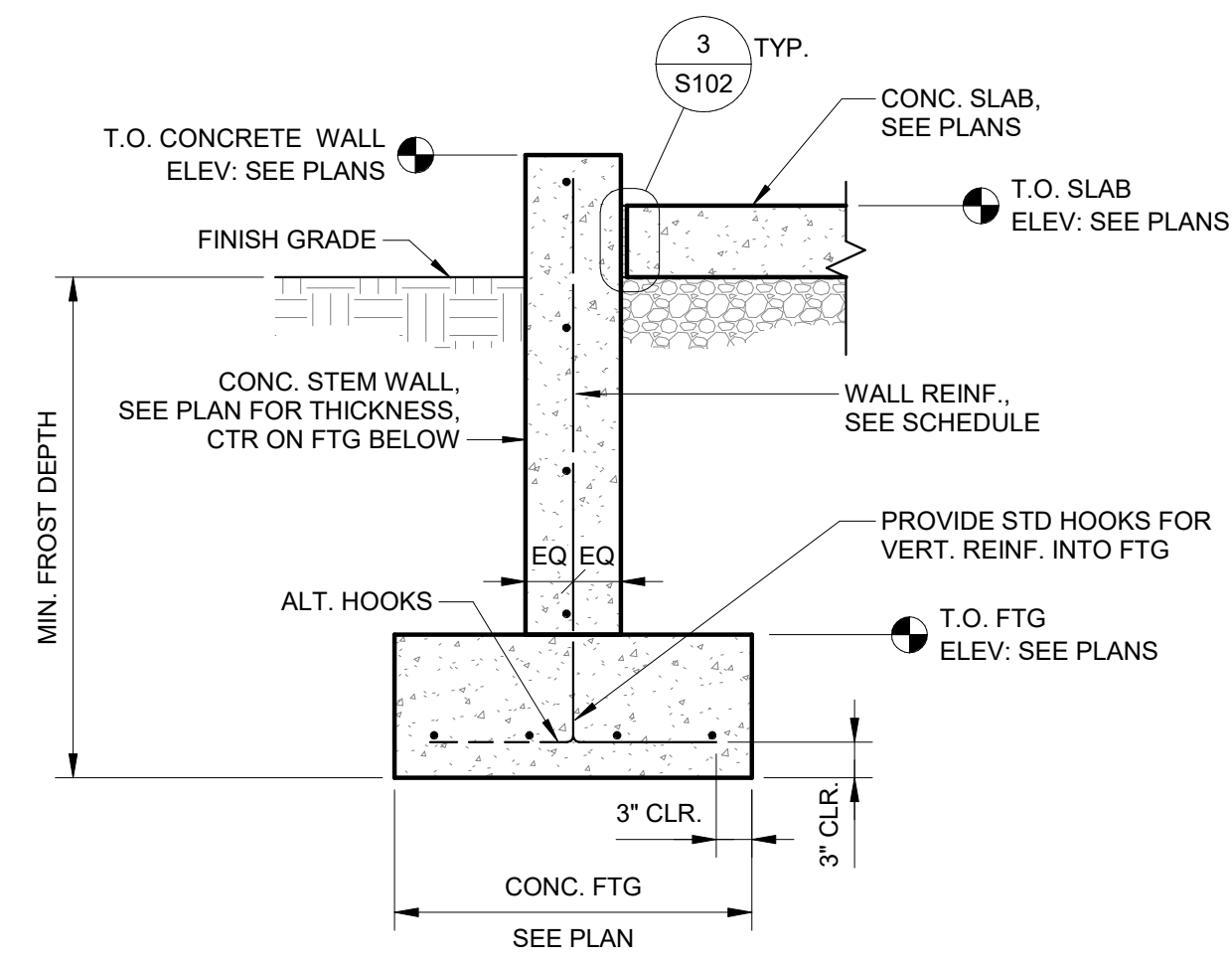
ELEVATION VIEW OF WALL SHOWN

7 TYPICAL RE-ENTRANT CORNER REINFORCEMENT NTS

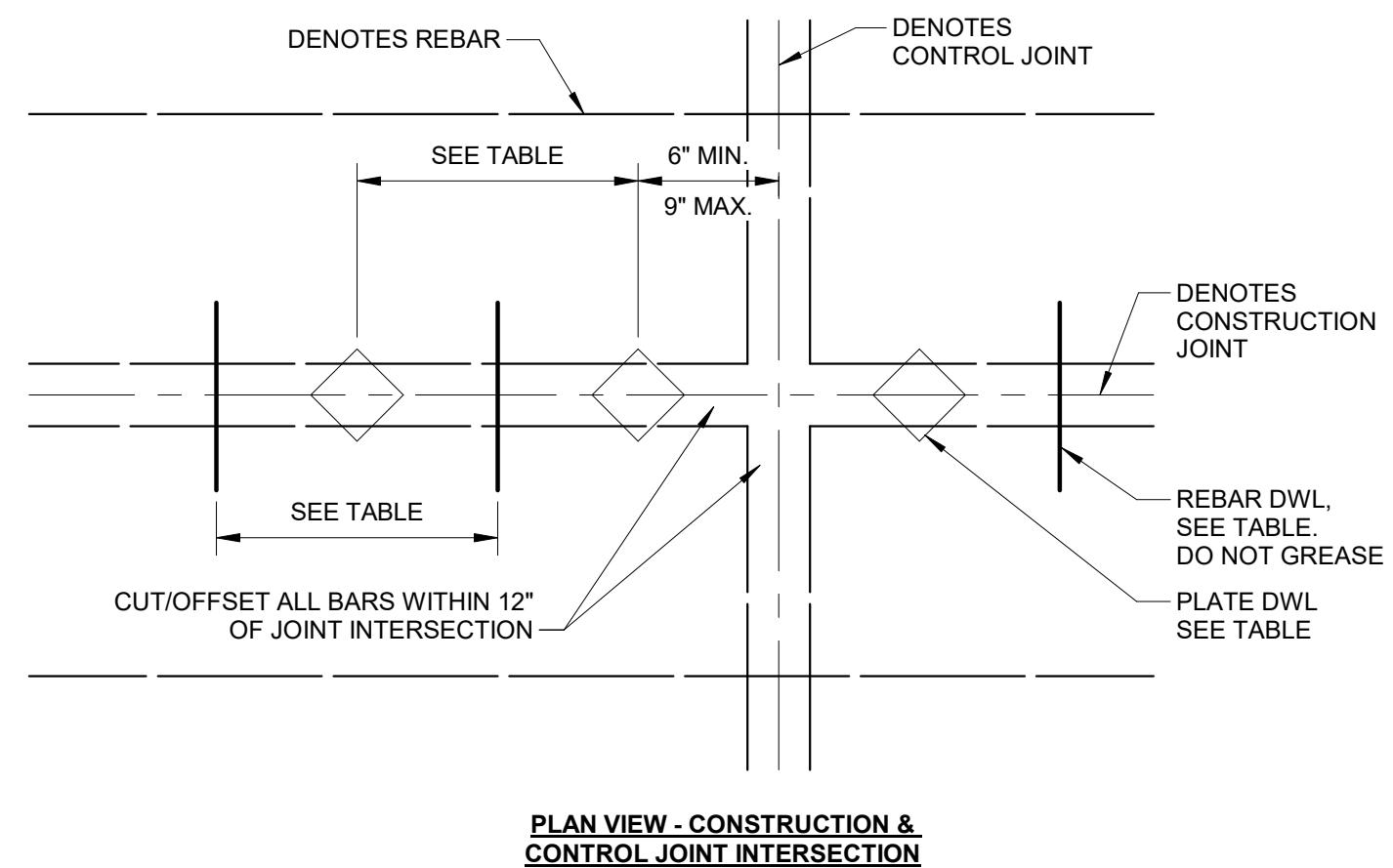
- NOTE:** THIS DETAIL APPLIES FOR RE-ENTRANT CORNERS IN WALLS, SLABS, (SLAB-ON-GRADE AND ELEVATED, INCLUDING CONSTRUCTION JOINTS), BEAMS, AND FOOTINGS.



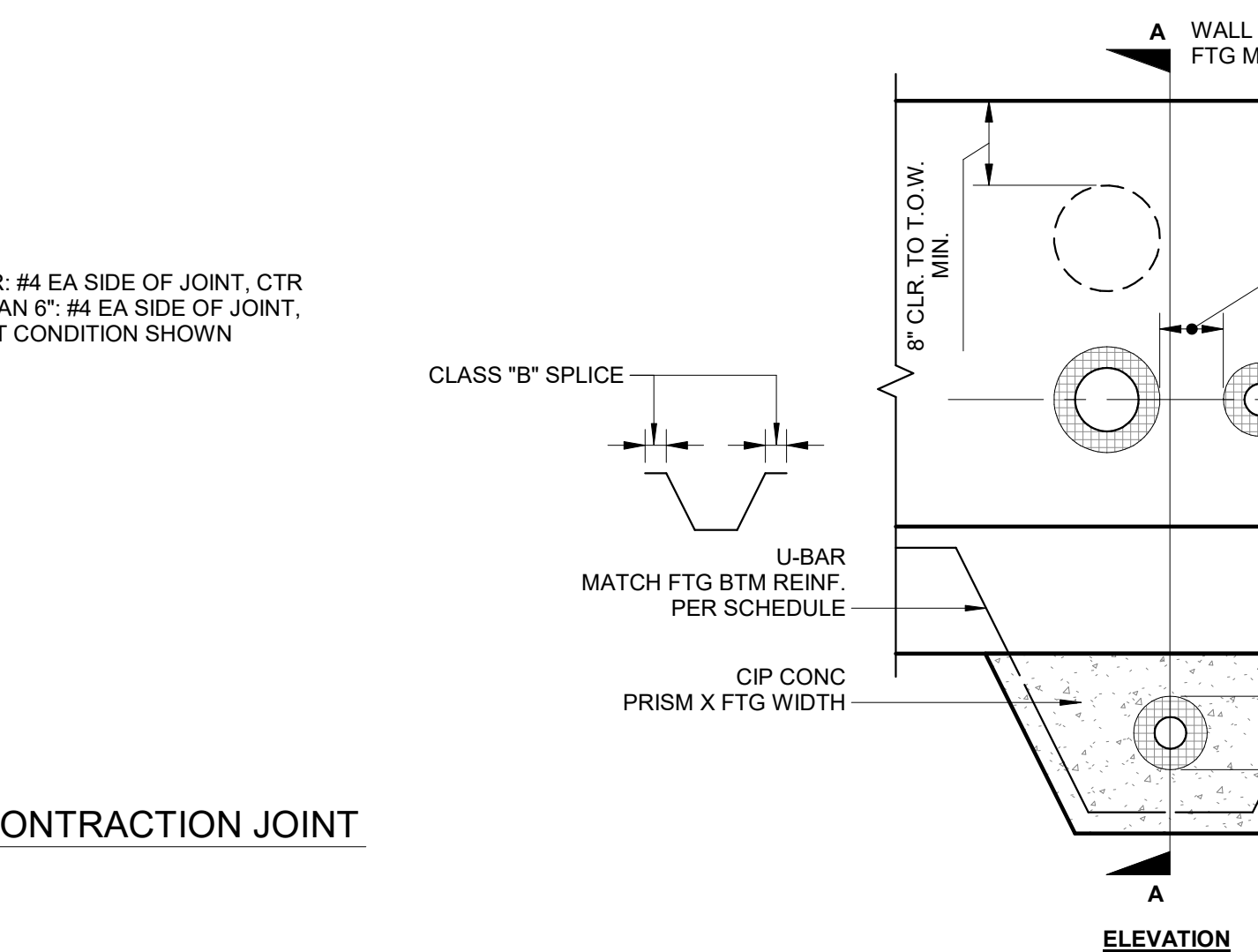
8 TYPICAL EXPOSED CONCRETE WALL CONTROL/CONTRACTION JOINT NTS



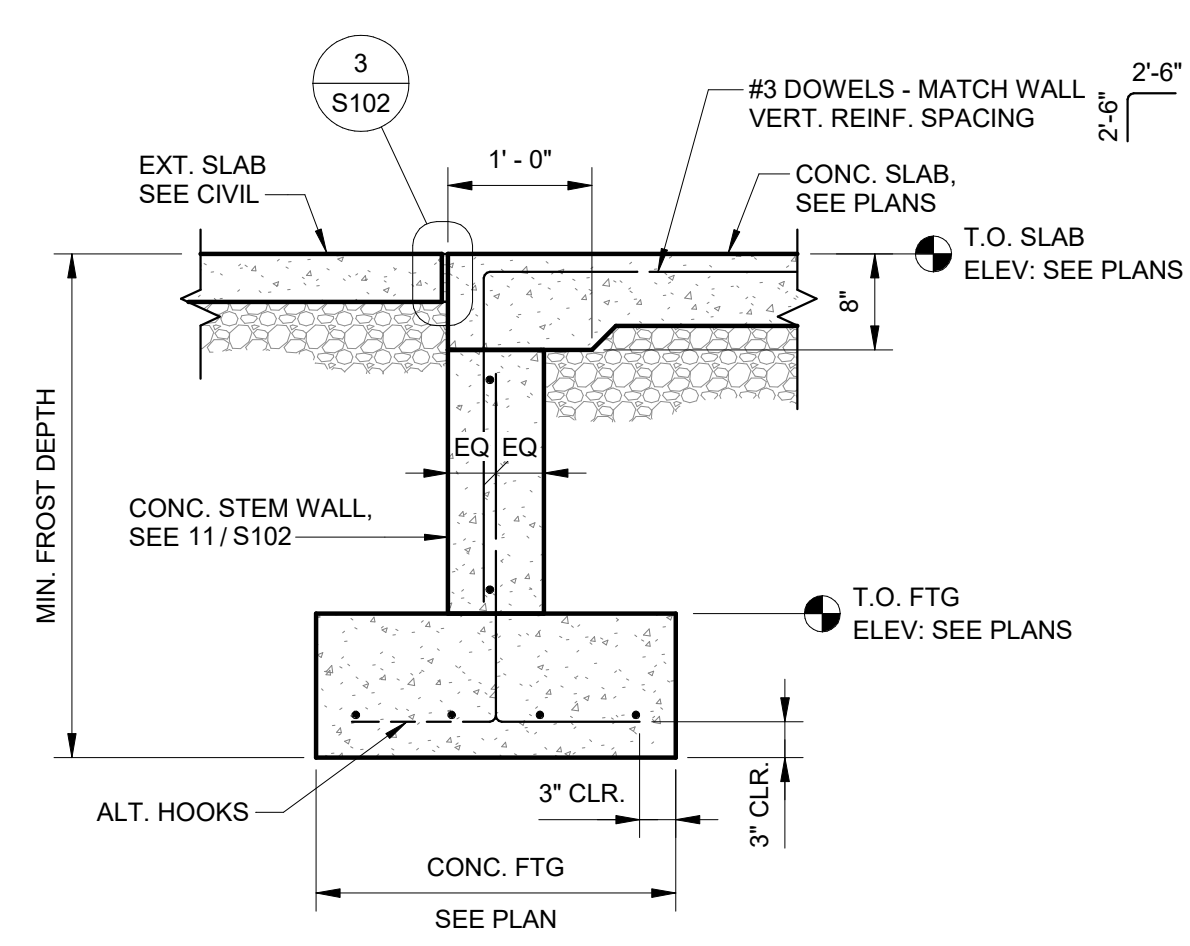
11 TYP. FOUNDATION/STEM WALL SECTION NTS



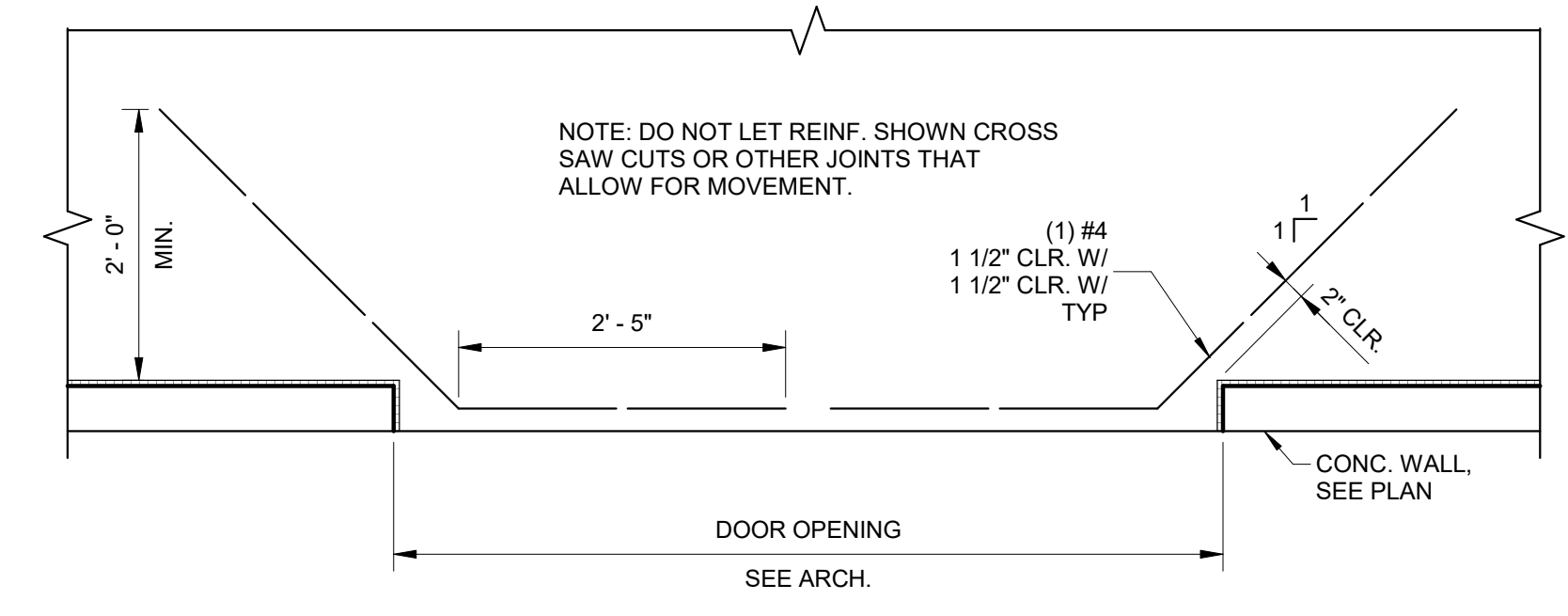
10 IMP BASE CHANNEL ANCHORAGE NTS



9 TYPICAL PIPE PENETRATION THRU WALL OR BELOW FOOTING NTS

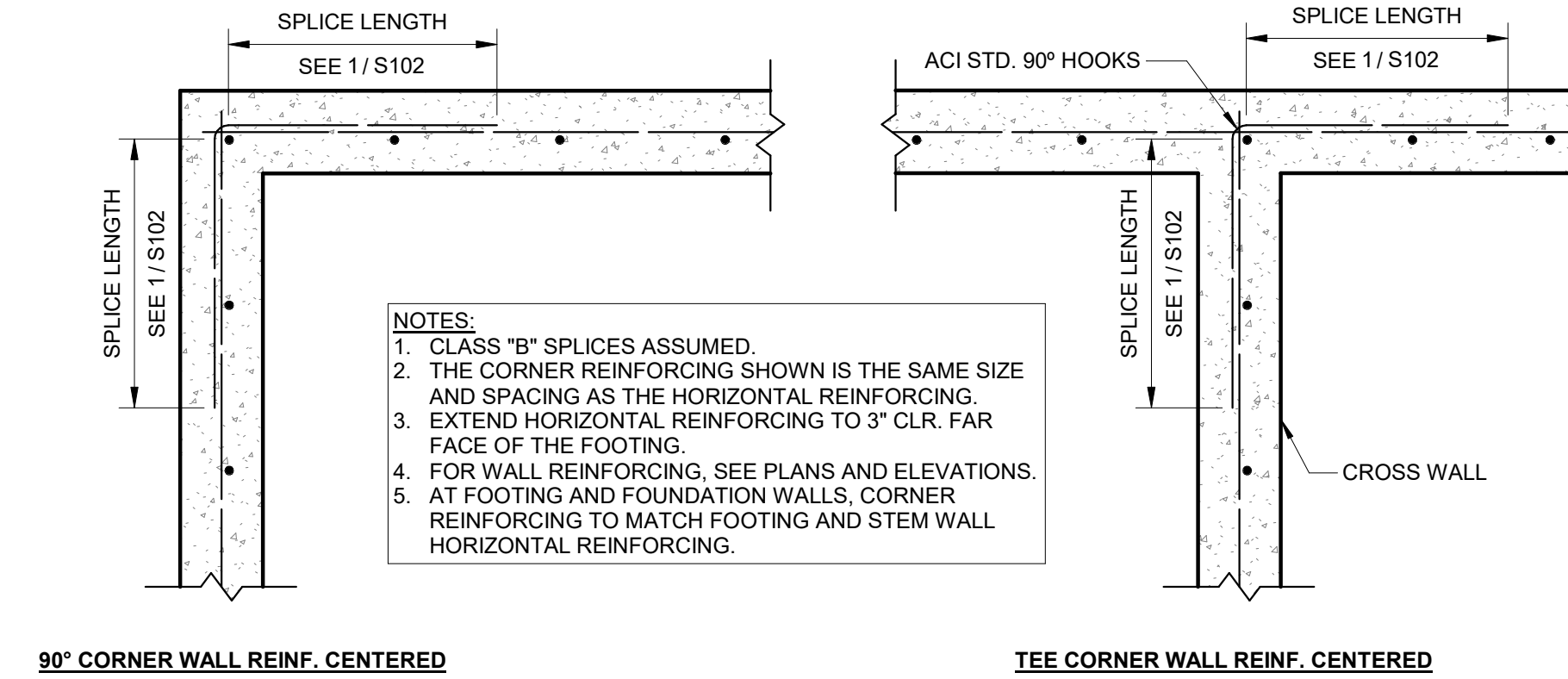


12 BLOCKOUT AT OHD OPENINGS NTS

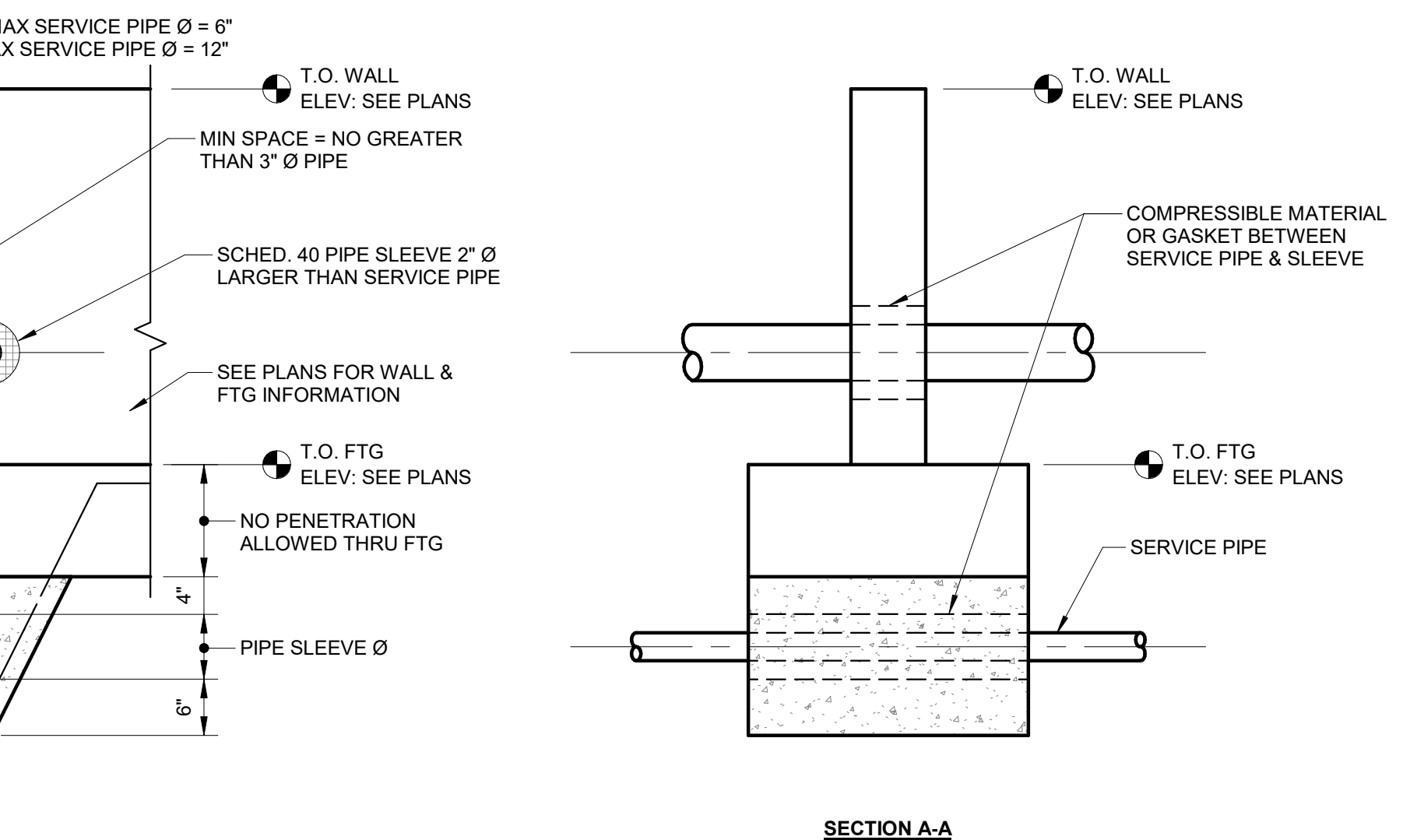


5 ADDITIONAL SLAB REINFORCING AT DOORS NTS

- NOTE:** ADDITIONAL REINF. NOT REQ'D WHERE FLOOR COVERINGS (PER ARCH) ARE PROVIDED.



6 CORNER REINFORCING DETAILS NTS



13 BLOCKOUT WITH STOOP AT PERSONNEL DOORS NTS

REVISION HISTORY			
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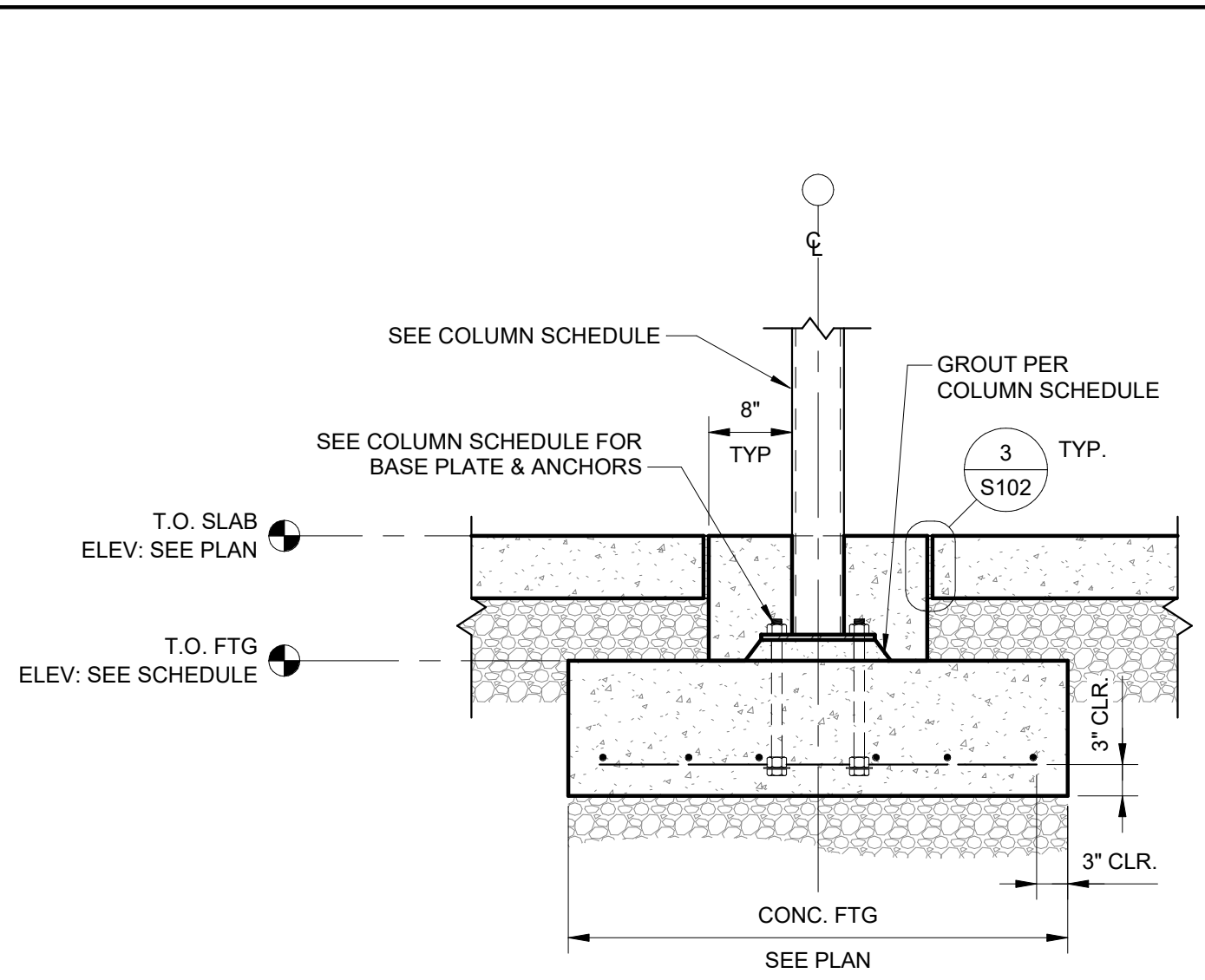
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HALLSVILLE LOCKER ROOM
 HALLSVILLE R-IV HIGH SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE, MO 65255

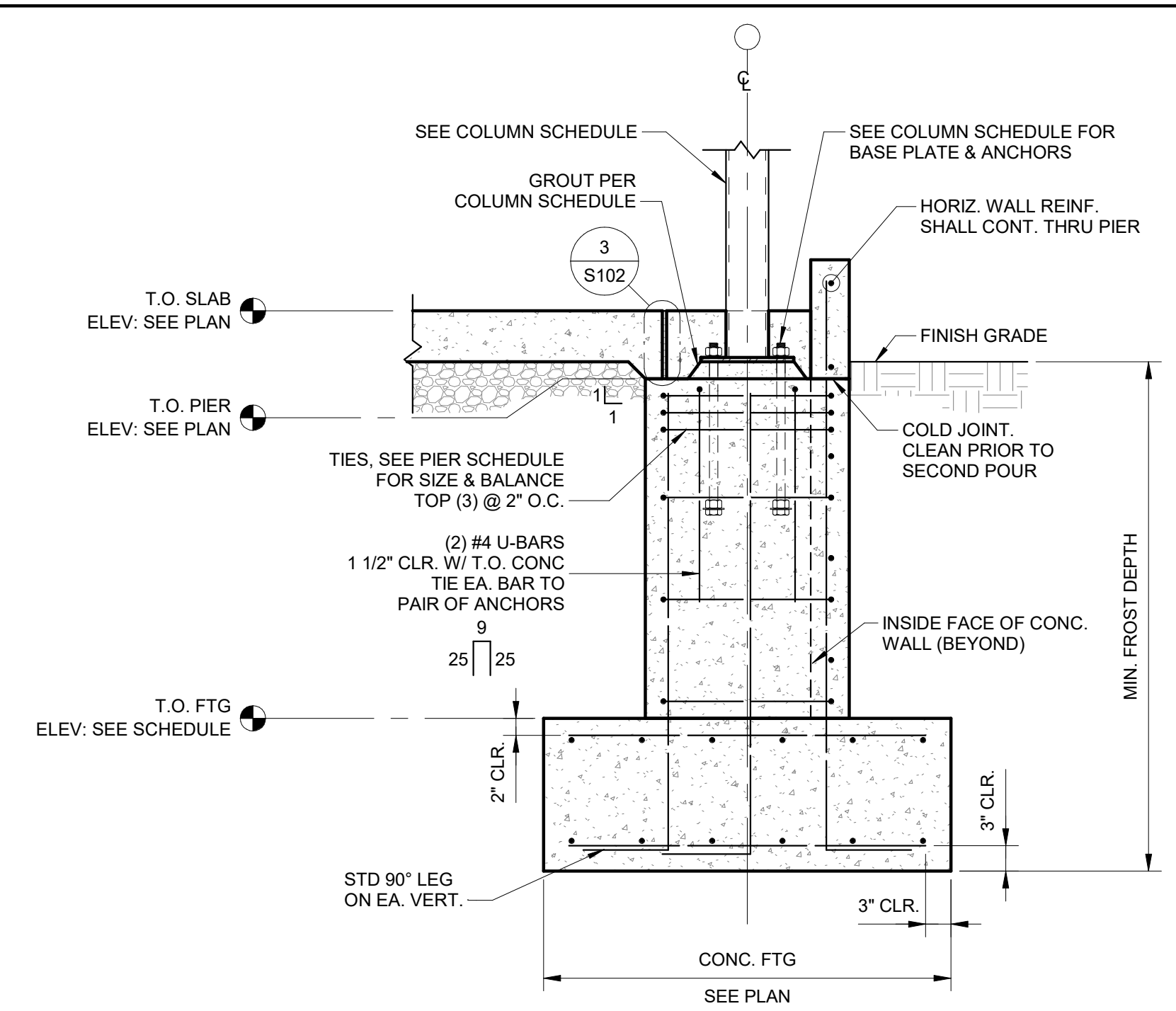
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SHEET TITLE
FOUNDATION DETAILS
 PROJECT NO:
 24-5008
 DRAWING ISSUED DATE:
 11/05/2024
 SHEET
S102

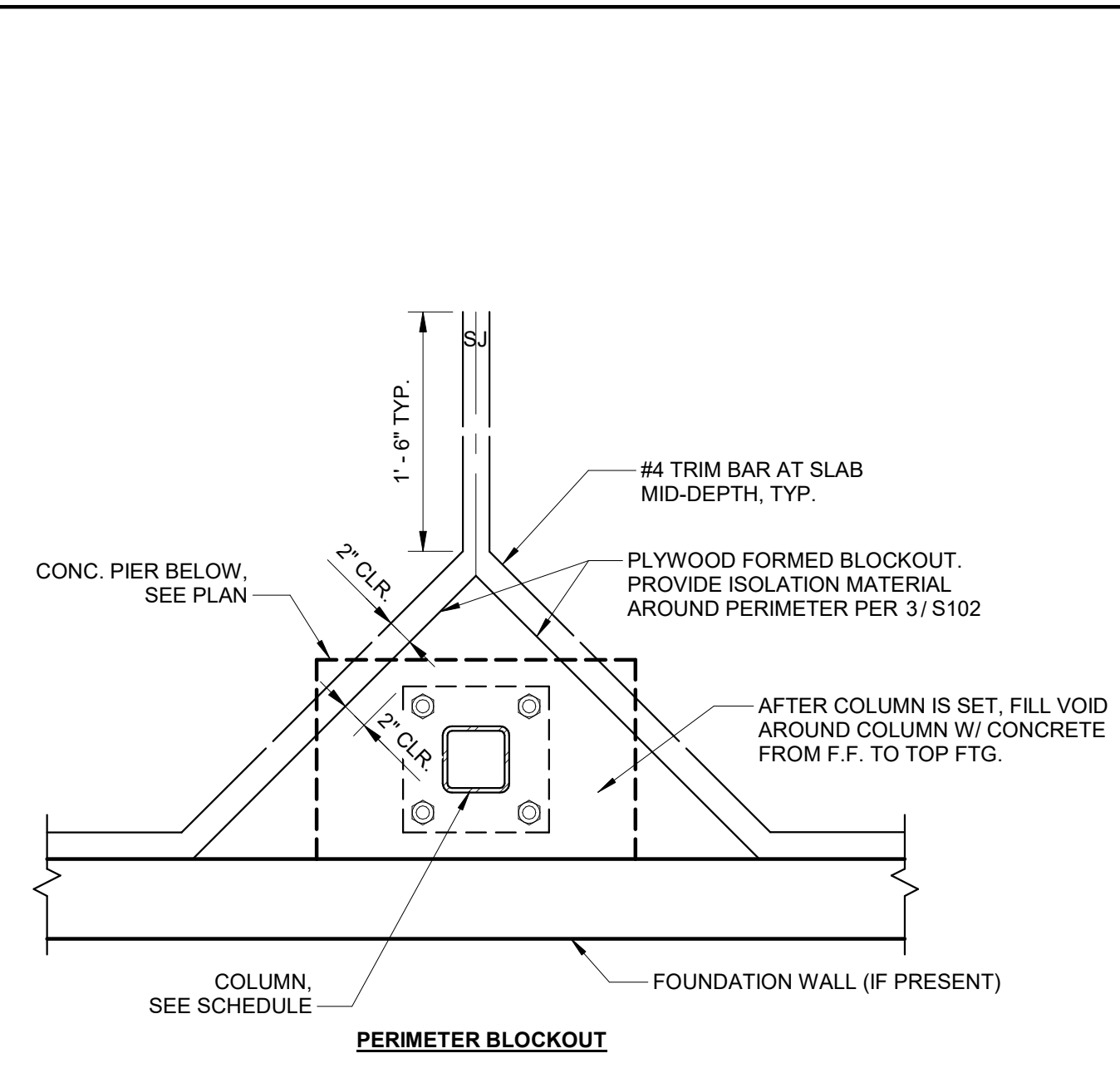


1 HSS COLUMN INTERIOR PAD FTG - WITH BLOCKOUT NTS

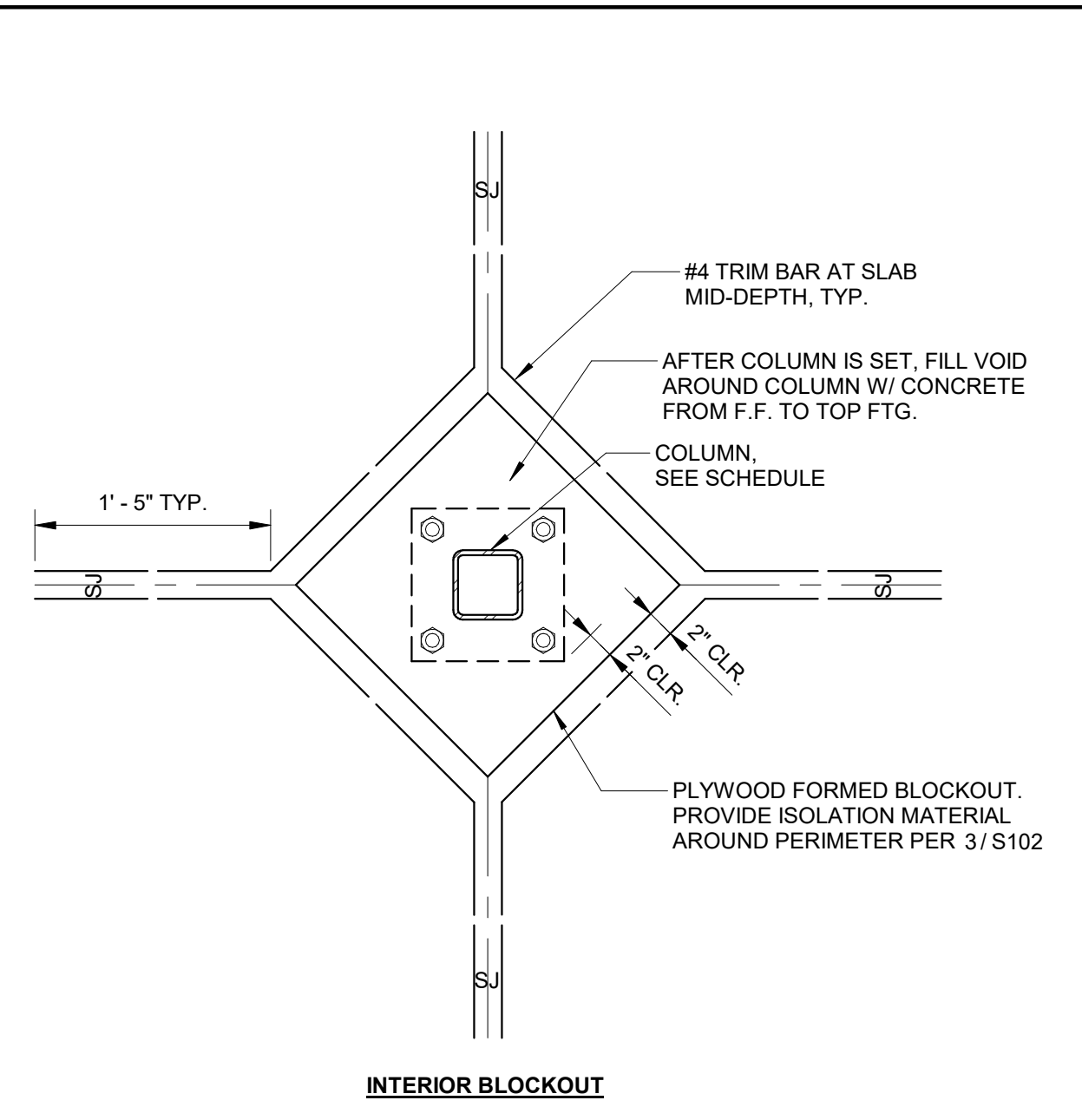


2 HSS COLUMN SIDEWALL PIER SECTION - WITH BLOCKOUT NTS

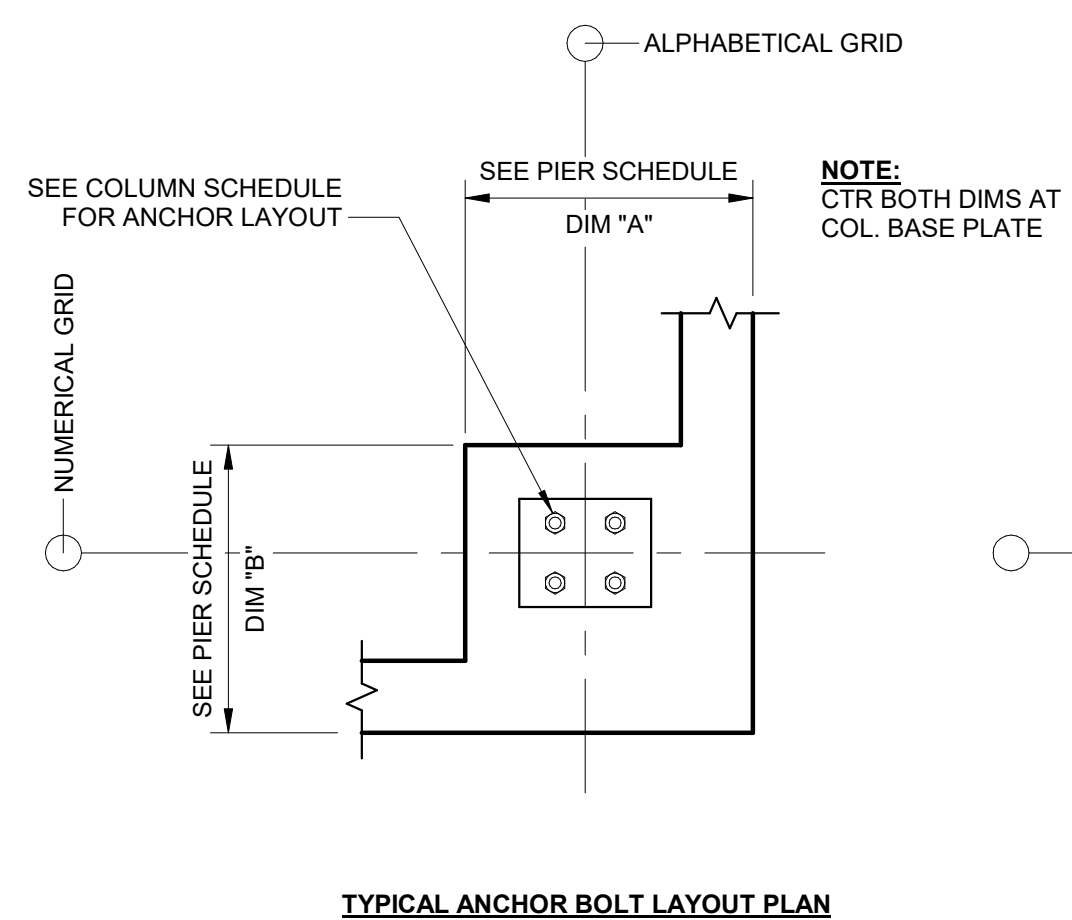
NOTE: SOG STE & CONC. WALL LOCATION VARIES OR CONC. SLAB IN LIEU OF EXT. FINISH GRADE AT SIM CONDITION.



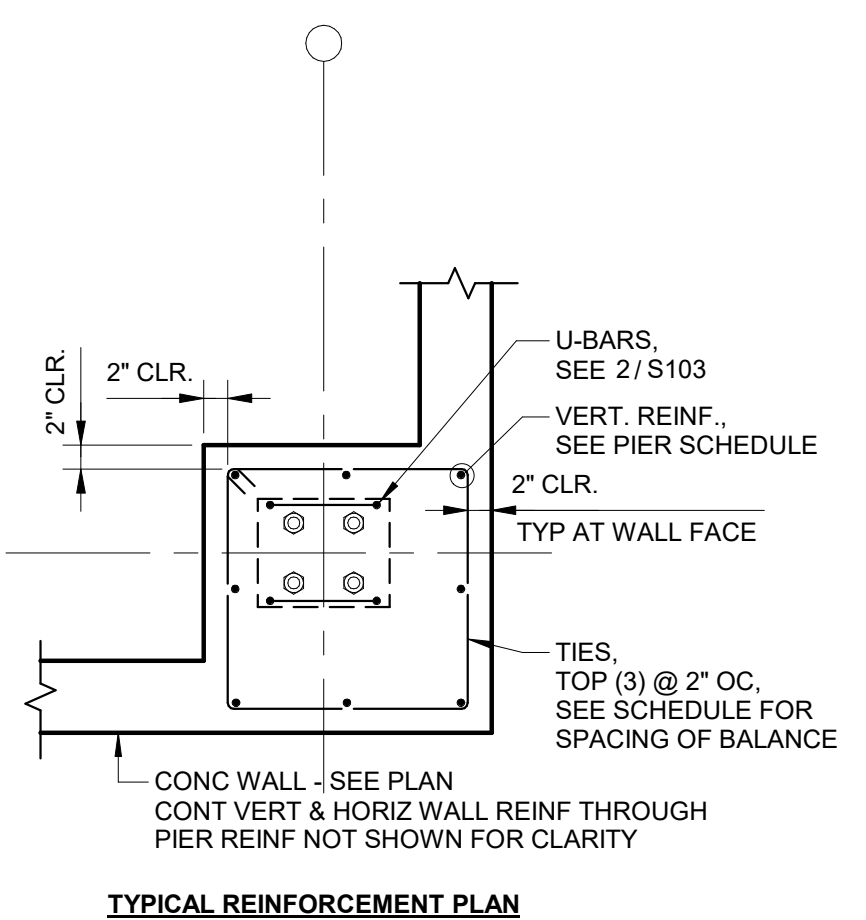
3 SLAB BLOCKOUT AROUND COLUMNS NTS



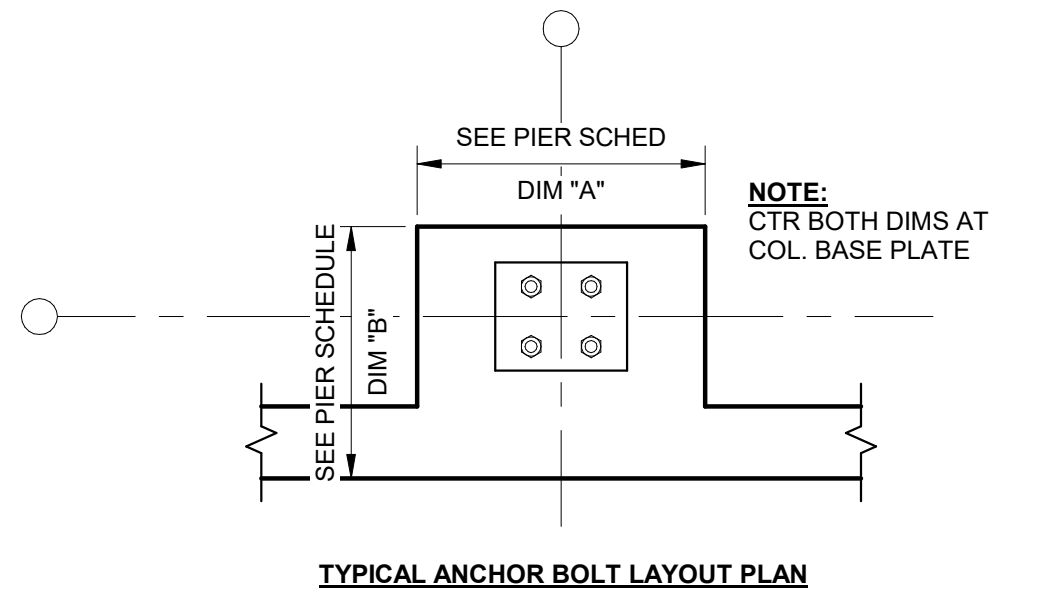
INTERIOR BLOCKOUT



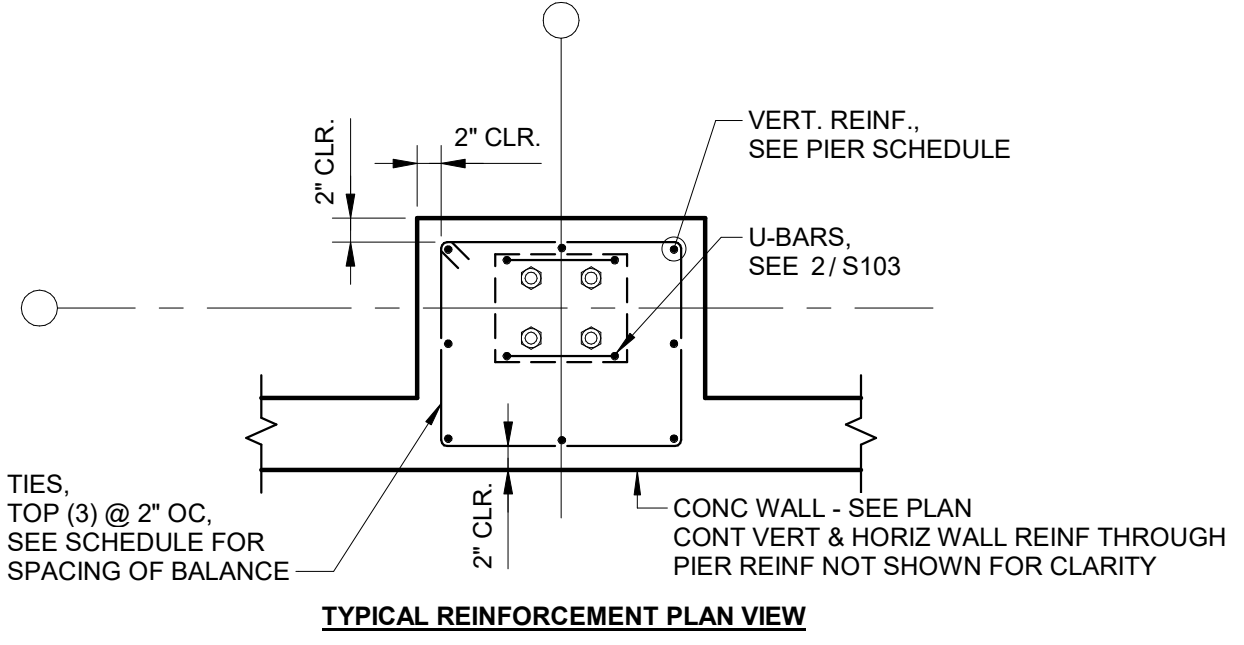
TYPICAL ANCHOR BOLT LAYOUT PLAN



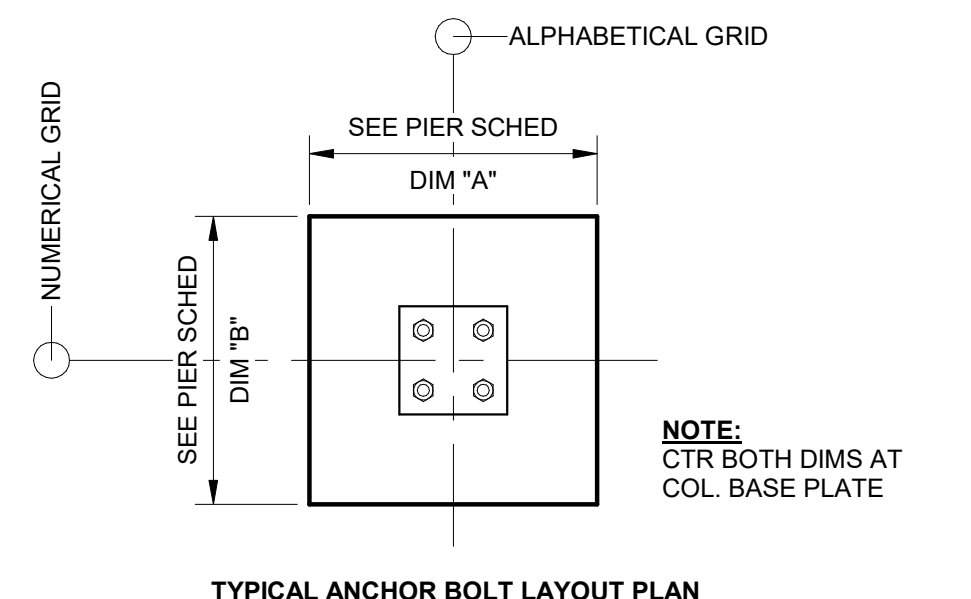
TYPICAL REINFORCEMENT PLAN



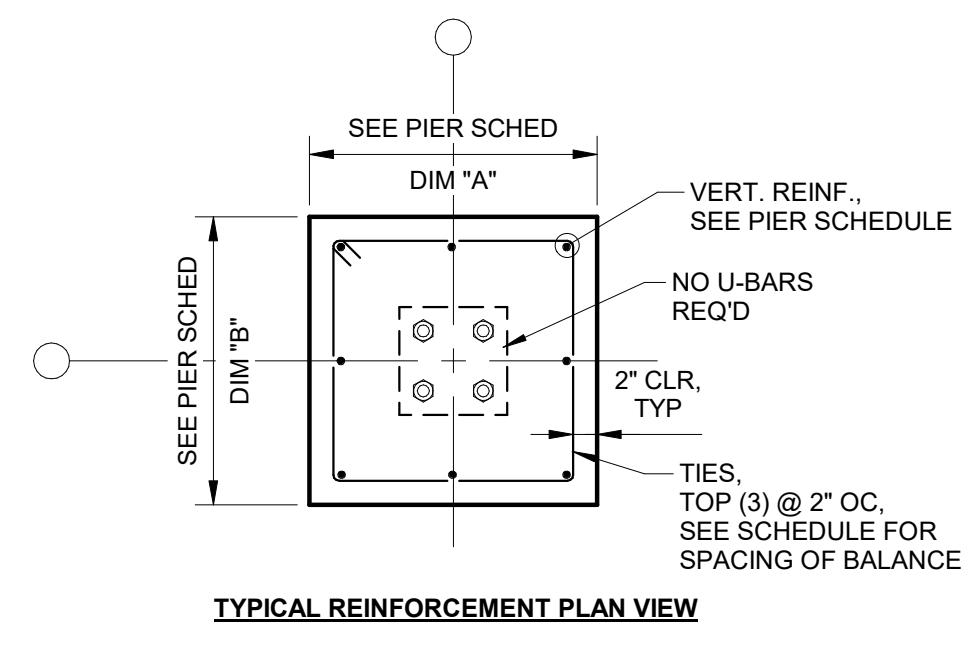
TYPICAL ANCHOR BOLT LAYOUT PLAN



TYPICAL REINFORCEMENT PLAN VIEW



TYPICAL ANCHOR BOLT LAYOUT PLAN



TYPICAL REINFORCEMENT PLAN VIEW

4 CORNER PIER DETAIL NTS

5 PERIMETER PIER DETAIL NTS

6 ISOLATED PIER DETAIL NTS

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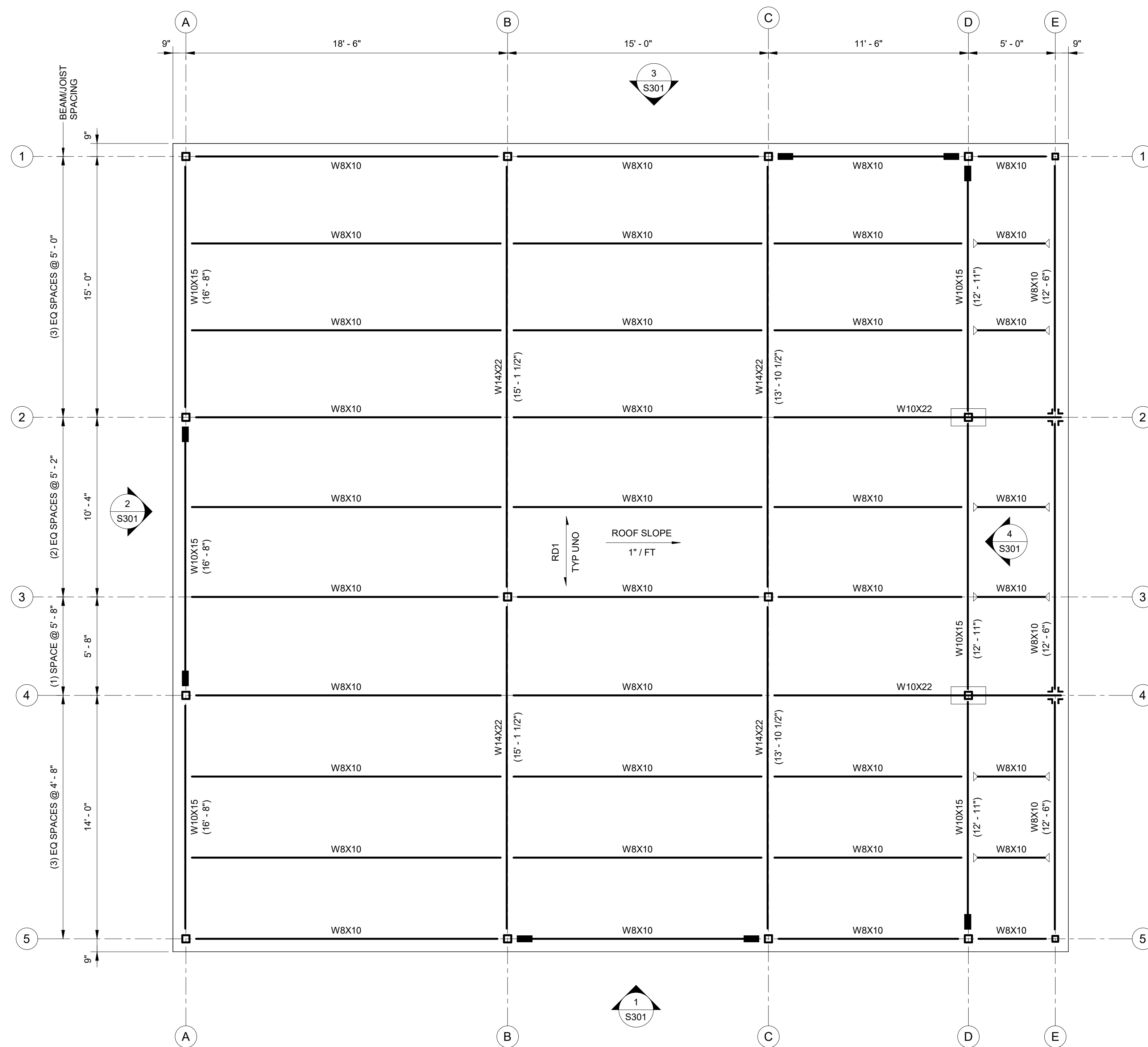
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DESIGNED: JEK	DRAWN: AJK
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SHEET TITLE
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PROJECT NO.
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 11/08/2024

SHEET
S103

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1 LOCKER ROOM ROOF PLAN
1/4" = 1'-0"

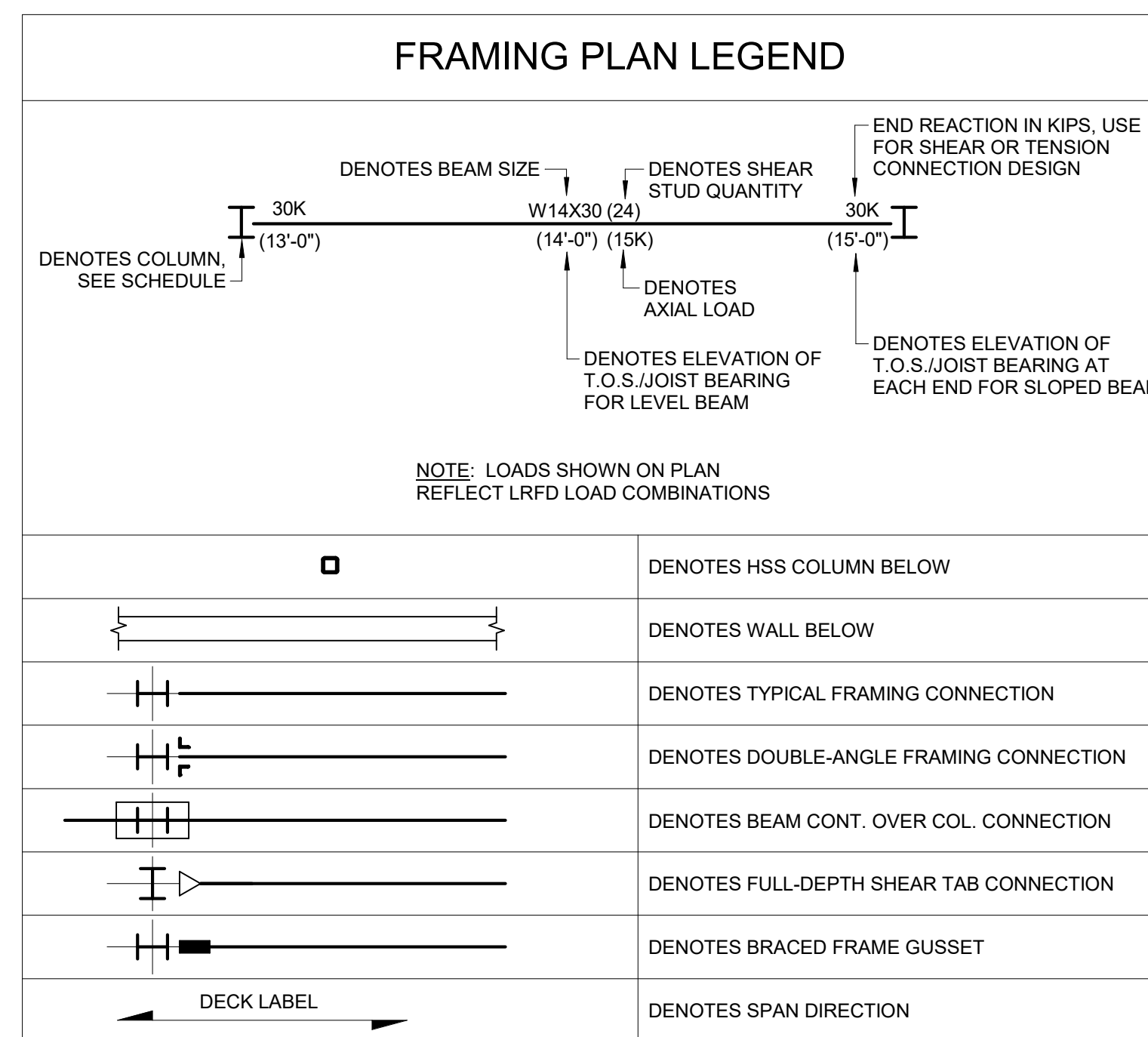
GENERAL FRAMING NOTES:

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
3. WALL PANEL ATTACHMENTS TO EAVES OF STRUCTURE AND STUDS/GIRTS PER MANUFACTURER.
4. METAL DECK OPENINGS PER DETAILS 1/S512 & 2/S512.
5. RTU CURB SUPPORT PER DETAILS 3/S512.
6. REF MECH'L DRAWINGS FOR RTU LOADS AND LOCATIONS.
7. SEISMIC GAPS, WITH EX. STRUCTURE, NOTED ON PLAN REFLECT INELASTIC RESPONSE DISPLACEMENTS.

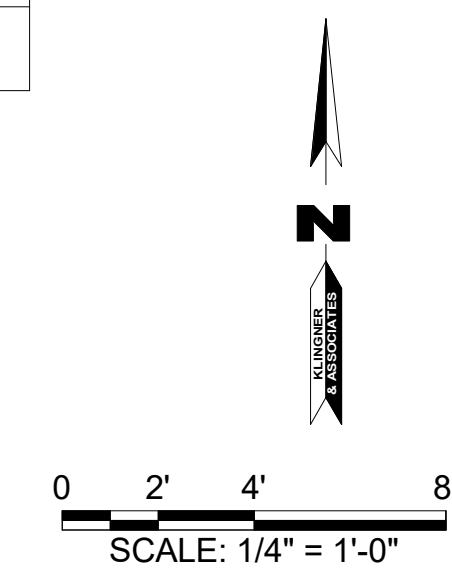
MARK	TYPE	GAGE	AT SUPPORTS PERPENDICULAR TO FLUTE	AT SUPPORTS PARALLEL TO FLUTE	SIDELAP CONNECTIONS	LRFD DIAPHRAGM STRENGTH		SHEAR STIFFNESS G' (KIP/IN)	GRADE / MIN. PROTECTIVE COATING
						SEISMIC	WIND		
RD1	1.5" B-DECK	22	5/8" Ø PUDDLE WELDS W/ 36/4 PATTERN	5/8" Ø PUDDLE WELDS @ 12" O.C.	VSC2 @ 18" O.C.	950 plf	1295 plf	119	GR. 50 / G60

FINISH: SEE ARCH

NOTES:
1. 3/8"x1.25" ARC SEAM WELDS MAY BE USED IN LIEU OF 5/8" PUDDLE WELDS @ INTERLOCKING SIDELAPS
2. RUN DECK TO BEAM CENTERLINE.



- 1 S510
- 2 S510
- 3 S510
- 4 S510
- 5 S510
- 6 S510
- 7 S510
- 8 S510
- 9 S510
- 10 S511



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LOCKER ROOM ROOF PLAN
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S201

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REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR

ISSUED FOR: 11/05/2024

DESIGN DEVELOPMENT

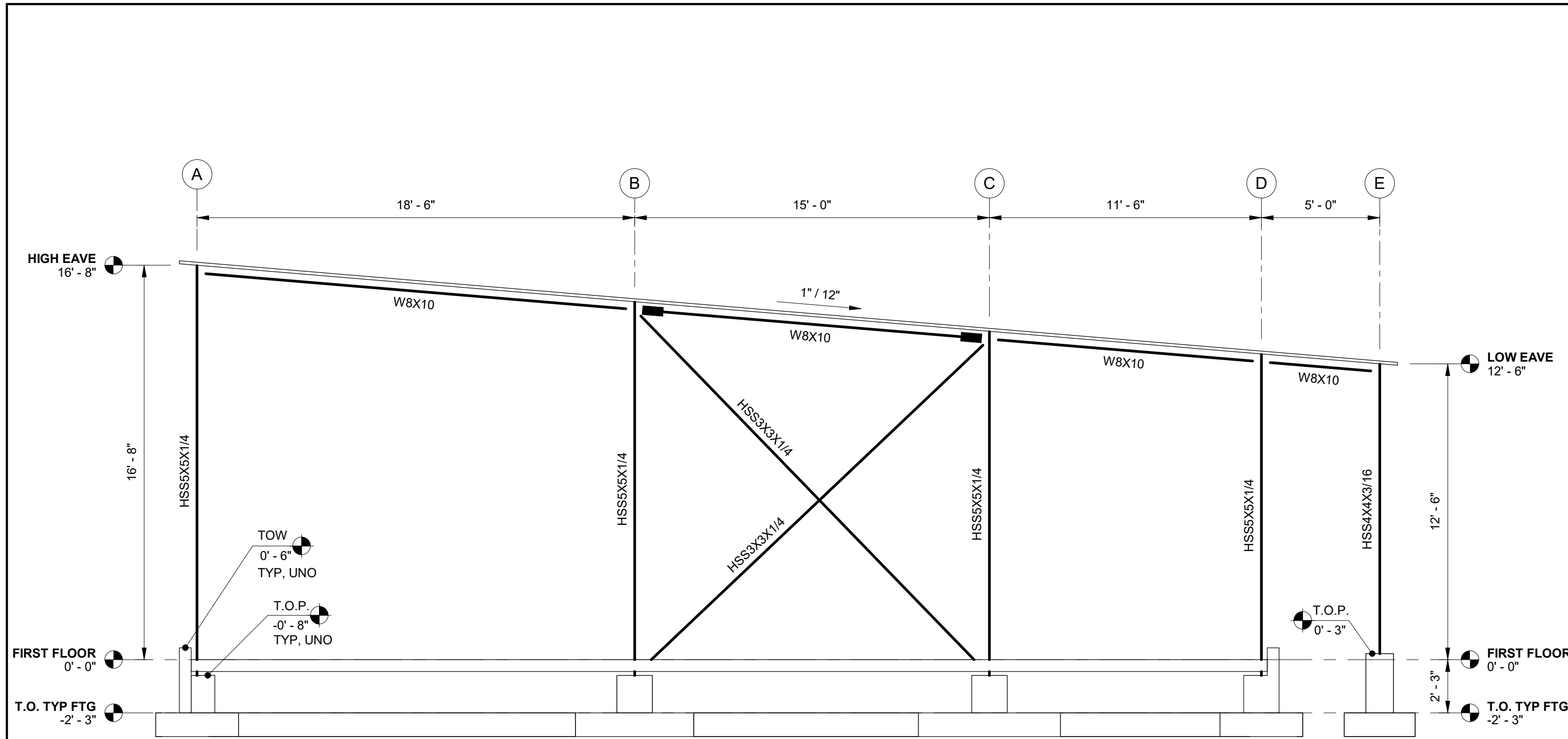
PRELIMINARY
 NOT FOR CONSTRUCTION

HALLSVILLE LOCKER ROOM
 HALLSVILLE R-IV HIGH SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE, MO 65255

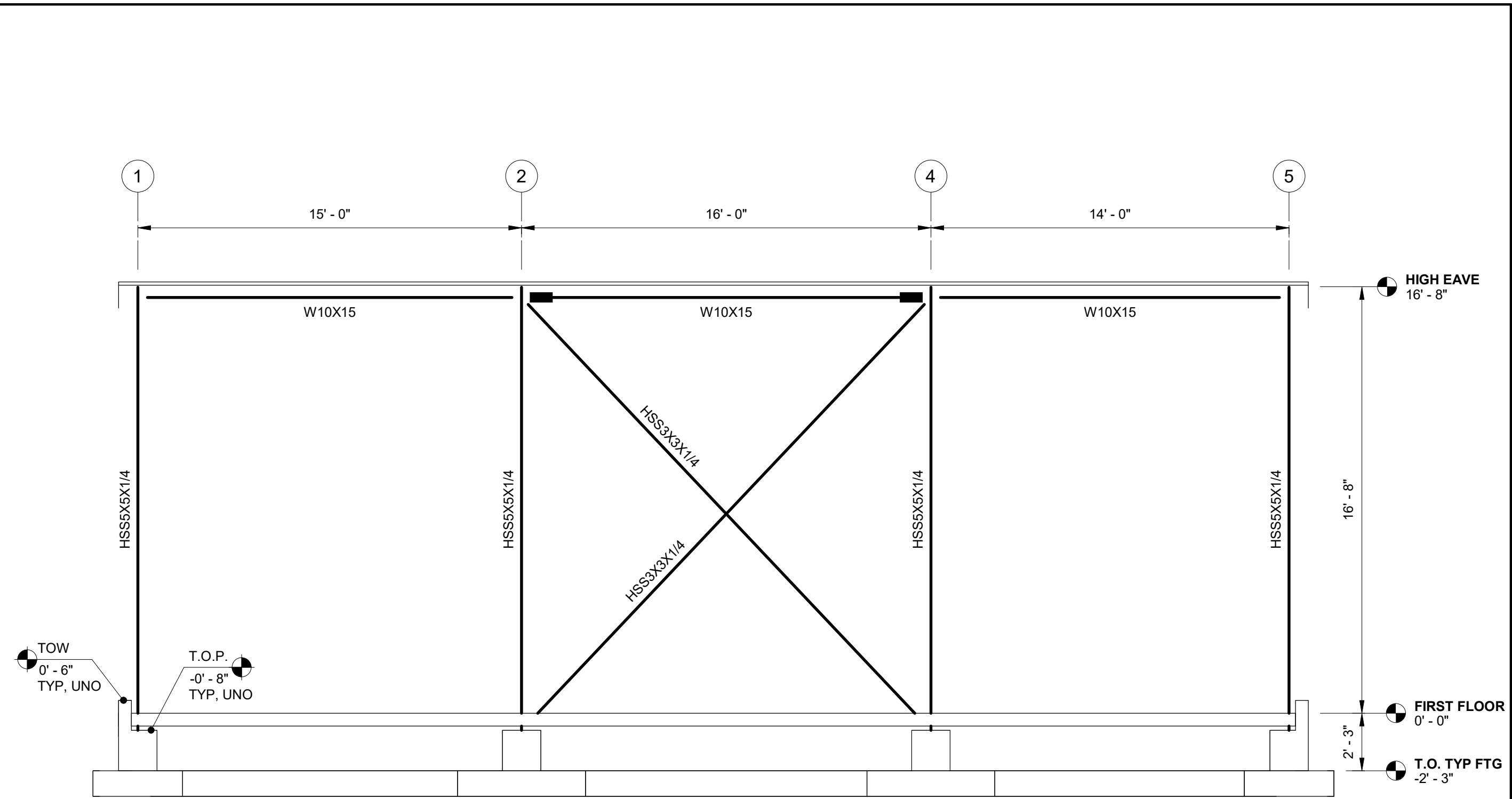
Non-Reduced Sheet Size 24" x 36"
 Full sized plans have been prepared using standard scales.
 Reduced sized plans may not conform to standard scales.

DESIGNED	JEK	DRAWN	AJK
FIELD		FIELD BOOK	
CHECKED		CHECK DATE	

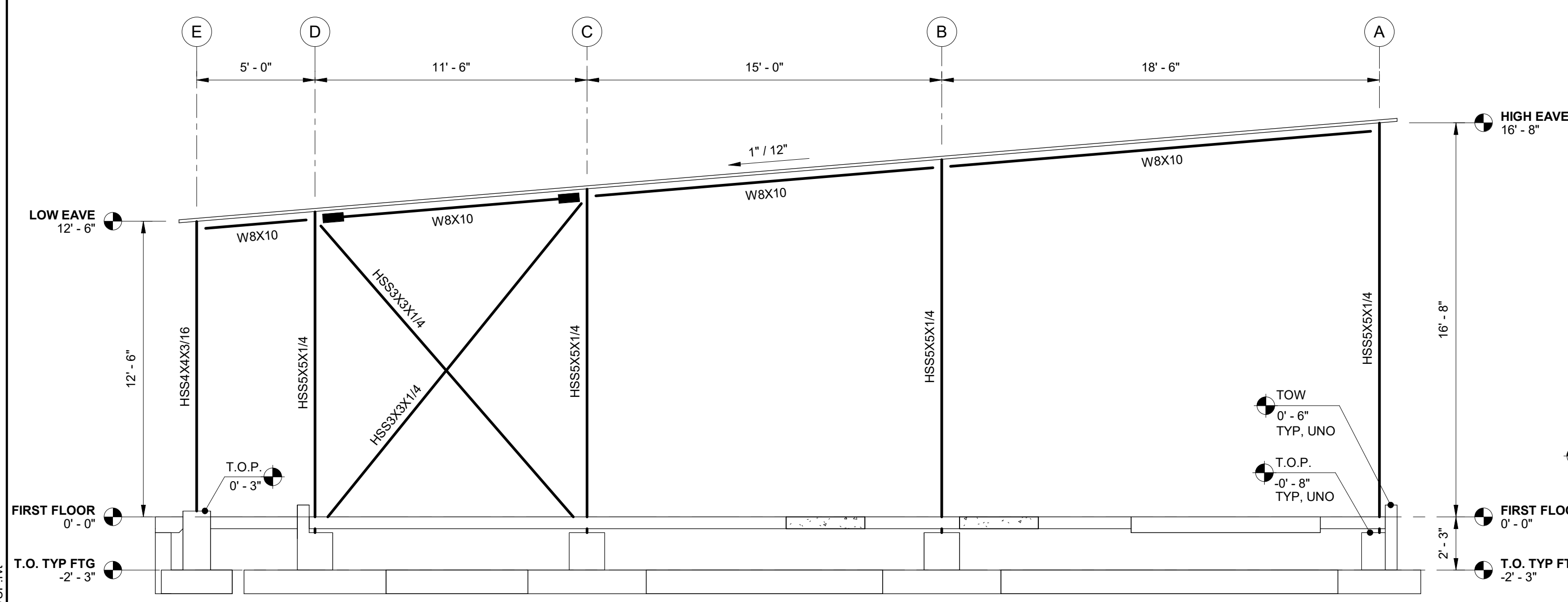
SHEET TITLE	
FRAMING ELEVATIONS	
PROJECT NO.	24-5008
DRAWING ISSUED DATE:	11/05/2024
SHEET	
S301	



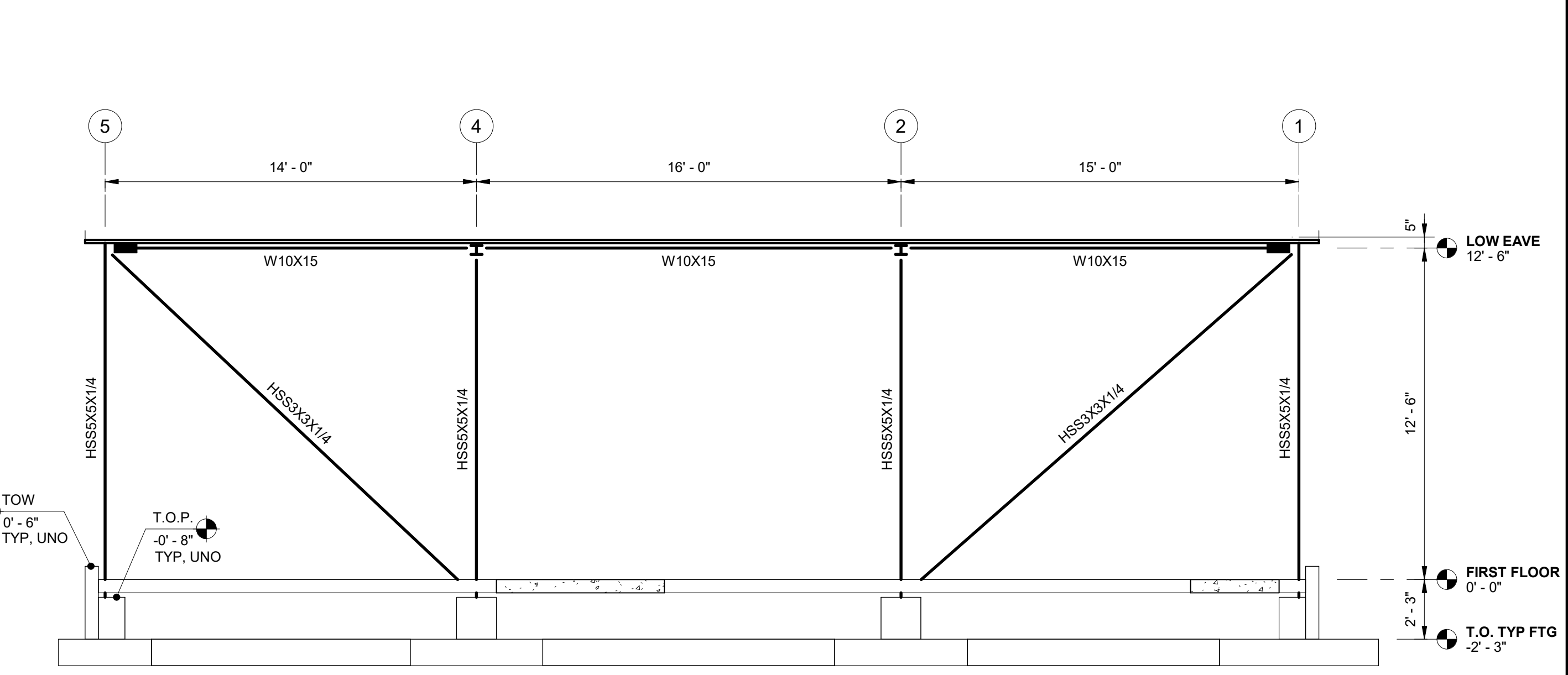
1 GRID 5 ELEVATION - LOOKING NORTH
 1/4" = 1'-0"



2 GRID A ELEVATION - LOOKING EAST
 1/4" = 1'-0"

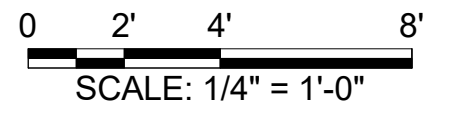


3 GRID 1 ELEVATION - LOOKING SOUTH
 1/4" = 1'-0"



4 GRID D ELEVATION - LOOKING WEST
 1/4" = 1'-0"

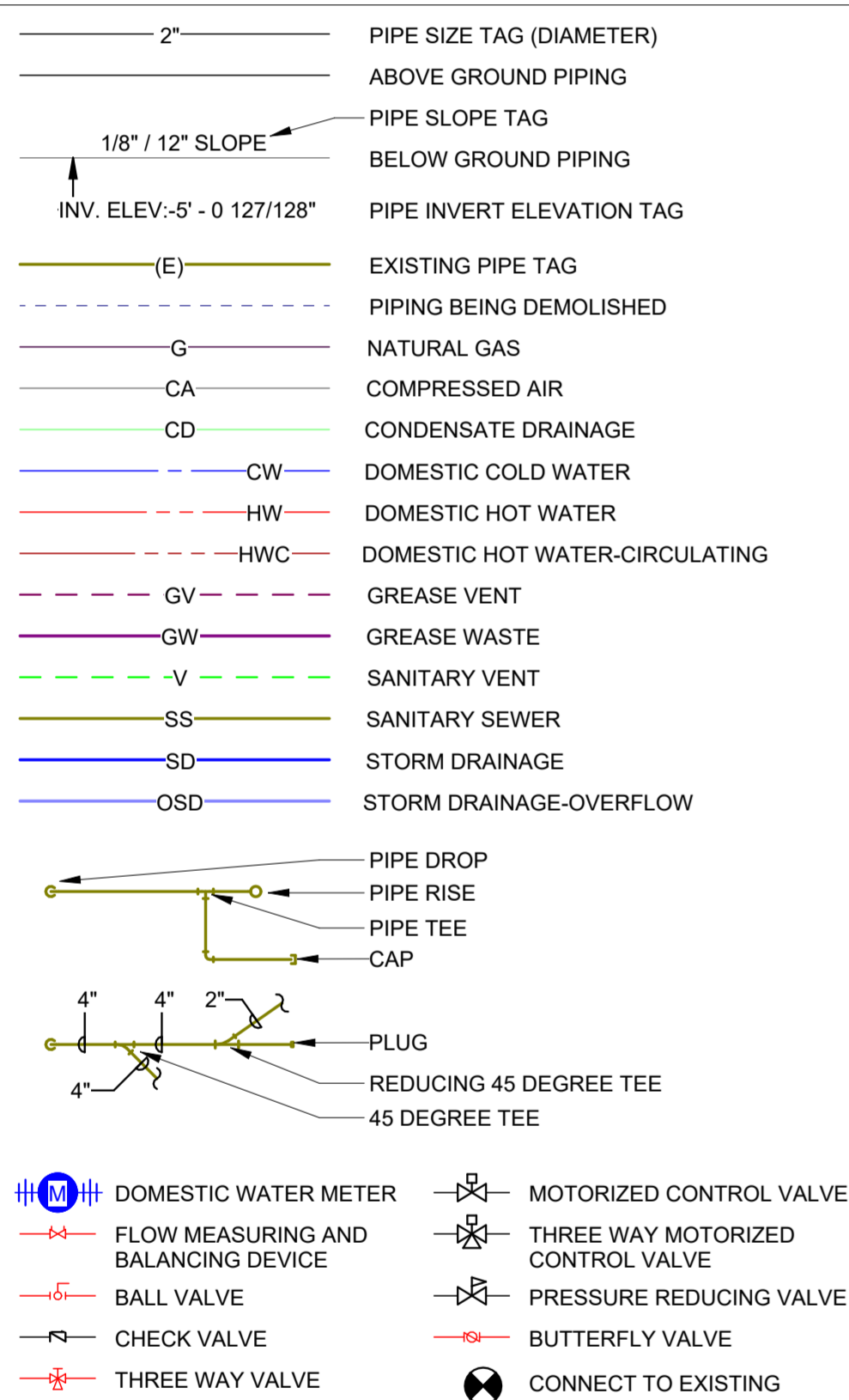
- GENERAL ELEVATION NOTES:**
- GIRT VERTICAL DIMENSIONS REFER TO BOTTOM OF MEMBER ELEVATIONS.
 - GIRT & JAMB/POST HORIZ DIMENSIONS REPRESENT CLEAR DIMENSIONS, BETWEEN MEMBERS.
 - WALL PANEL ATTACHMENT TO STRUCTURE BY MFR.
 - DOOR MFR TO VERIFY HEADER HEIGHTS AND GIRT ELEVATIONS FOR COMPONENT SUPPORT.
 - CONTRACTOR TO PROVIDE BLOCKING FOR GIRTS UNTIL PANEL IS ATTACHED, FROM FOUNDATION TO ROOF.
 - SLAB DOWN-TURN NOT SHOWN FOR CLARITY.



GENERAL PLUMBING NOTES:

1. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, ACCESSORIES, TOOLS, EQUIPMENT, TRANSPORTATION, LABOR, SERVICES AND OPERATIONS NECESSARY FOR A COMPLETE PLUMBING SYSTEM INCLUDING FIXTURES, SANITARY SEWERS, CLEANOUTS, WATER SUPPLY PIPING, AND NATURAL GAS PIPING.
3. ALL DOMESTIC WATER HEATING SYSTEMS SHALL BE SET TO MAINTAIN A MINIMUM OF 140°F AND HOT WATER CIRCULATION SYSTEMS SHALL BE SET TO MAINTAIN A RETURN WATER TEMPERATURE OF 130°F UNLESS NOTED OTHERWISE.
4. PLUMBING CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS REQUIRED BY STATE OR LOCAL AUTHORITIES.
5. MATERIALS MUST BE NEW, IN FIRST CLASS CONDITION.
6. WORK SHALL BE DONE BY TRAINED, EXPERIENCED, SKILLED, JOURNEYMAN UNDER AN APPROVED FULL TIME SUPERVISOR. WORK SHALL BE PERFORMED IN A NEAT WORKLIKE MANNER.
7. PIPE INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES.
8. PIPING SHALL BE SEPARATELY HUNG AND ANCHORED, FREE TO EXPAND AND CONTRACT QUIETLY, WITHOUT IMPOSING STRAINS ON STRUCTURE, PIPING, VALVES, DEVICES, AND EQUIPMENT. PIPING SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
9. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE SEPARATED BY DIELECTRIC COUPLINGS.
10. CONTRACTOR SHALL PERFORM EXCAVATION REQUIRED TO INSTALL HIS WORK.
11. PIPING, ETC., SHALL BE TESTED TO AT LEAST 125 PSI.
12. PIPE HANGERS AND SUPPORTS SHALL MEET THE LOCAL SEISMIC REQUIREMENTS.
13. PROVIDE BALL VALVE ON PIPES TO EACH GROUP OF FIXTURES OR TO EACH PIECE OF EQUIPMENT.
14. PLUMBING CONTRACTOR SHALL INSTALL GAS PIPING TO WITHIN 2' OF EACH APPLIANCE AND TERMINATE WITH A GAS COCK. HVAC CONTRACTOR TO MAKE FINAL CONNECTION.
15. LOCATE ALL SHUT-OFFS, CLEANOUTS, AND OTHER DEVICES REQUIRING ACCESS IN AN EASILY ACCESSIBLE AREA.
16. DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS OF PIPING. EXACT LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR AND VERIFIED IN THE FIELD PRIOR TO ROUGH-IN.
17. PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING VENTS THROUGH ROOFS WITH HVAC EQUIPMENT AND BUILDING OPENINGS TO ENSURE CODE COMPLIANCE WITH MINIMUM SEPARATION DISTANCES.
18. SEE ARCHITECTURAL SHEET FOR FIRE RATED CONSTRUCTION LOCATIONS. ALL PLUMBING PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE UL LISTED OF EQUAL OR GREATER HOUR RATING.

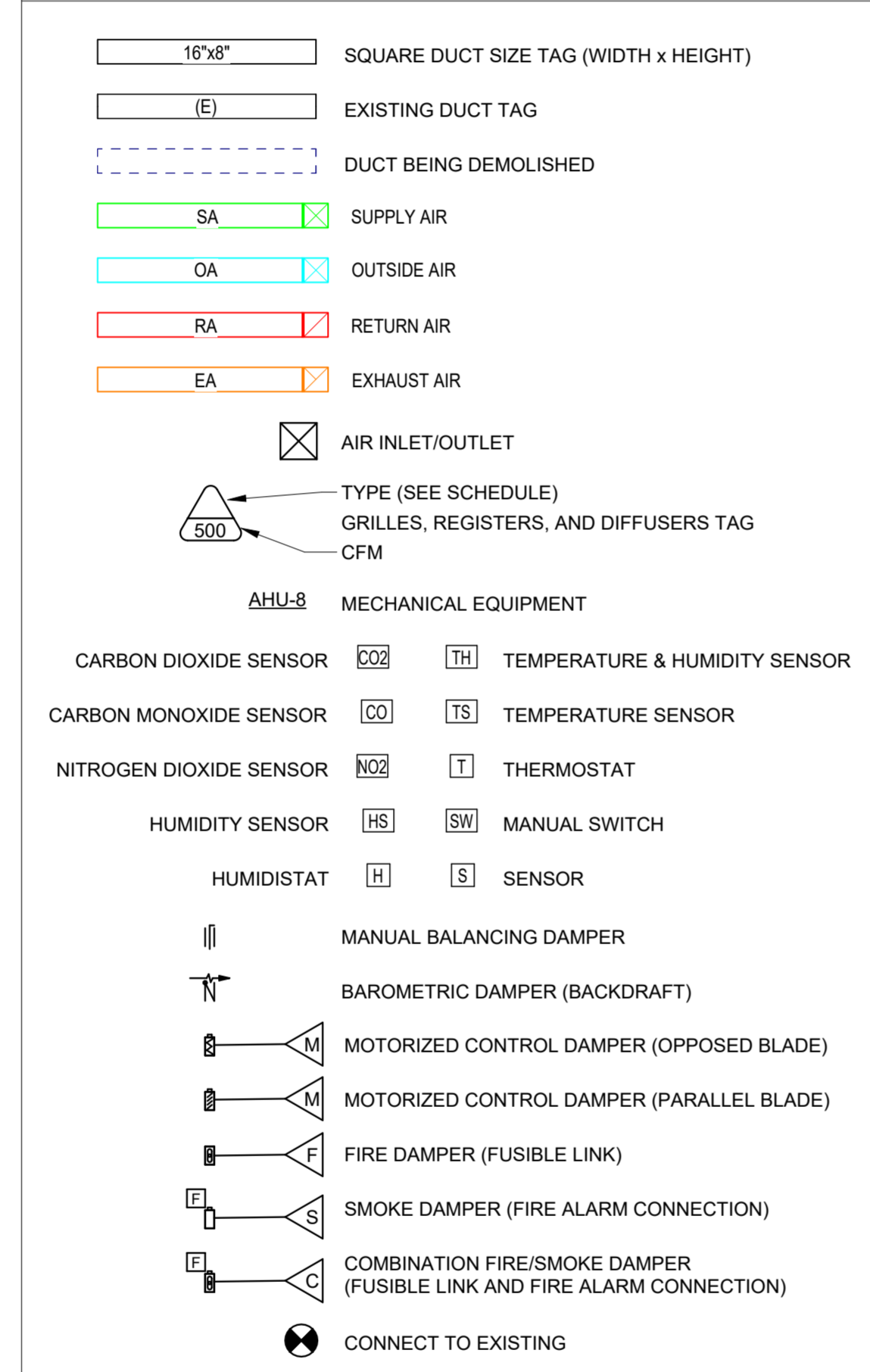
PLUMBING AND PIPING SYMBOLS



GENERAL HVAC NOTES:

1. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO NFPA 90A, SMACNA, ASHRAE AND ALL OTHER STATE AND LOCAL CODES.
2. UPON COMPLETION OF CONSTRUCTION, REPLACE ALL FILTERS.
3. ALL 90 DEGREE BENDS IN AIR DUCTS SHALL HAVE TURNING VANES. VANES SHALL BE SINGLE THICKNESS WITH RADIUS = 4.5" AND SPACING = 2.25"
4. ALL MAIN AND BRANCH DUCTS SHALL BE RECTANGULAR GALV. STEEL SIZED AS NOTED ON THE PLANS. SIZE SHALL REFER TO UNOBSTRUCTED INTERNAL AIRFLOW AREA. DUCTWORK SHALL BE MOUNTED TIGHT TO JOISTS ABOVE OR RUN IN SPACE BETWEEN JOISTS, U.N.O. CLEARANCES FROM FINISH FLOOR SHALL BE MAXIMIZED WHERE POSSIBLE.
5. ALL RUNOUTS TO DIFFUSERS SHALL HAVE A VOLUME CONTROL DAMPER AT THE CONNECTION TO THE BRANCH OR MAIN DUCT.
6. FLEXIBLE DUCT SHALL BE A MAXIMUM OF FIVE (5) FEET IN LENGTH AND SHALL BE ROUTED TO MINIMIZE LENGTH WITH NO KINKS OR SHARP BENDS.
7. CONTRACTOR SHALL CONNECT RUNOUT TO CONTRACTOR FABRICATED BOOT AS NECESSARY TO ACCOMMODATE DIFFUSER.
8. A FLEXIBLE CONNECTION BETWEEN MECHANICAL UNITS AND BOTH THE SUPPLY AND RETURN AIR DUCTWORK IS REQUIRED FOR VIBRATION ISOLATION AND NOISE REDUCTION.
9. BALANCE ALL MECHANICAL EXHAUST, MAKE-UP AIR, HEATING AND AIR CONDITIONING SYSTEMS WITHIN 10% OF THE FLOWRATES NOTED ON PLANS.
10. INSULATE DUCTWORK AS REQUIRED IN THE SPECIFICATIONS.
11. SERVICE OPENINGS SHALL BE LOCATED IN THE DUCTWORK BEFORE AND AFTER EACH TURNING VANE. SEE SPECIFICATIONS AND NFPA 90A FOR LOCATIONS OF ADDITIONAL ACCESS DOORS AND PANEL REQUIRED THROUGHOUT THE AIR DISTRIBUTION SYSTEM.
12. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE TO INCREASE CLEARANCES BELOW.
13. LEAVE ADEQUATE SPACE FOR INSTALLATION OF PLUMBING PIPES. COORDINATE WITH PLUMBING CONTRACTOR.

HVAC SYMBOLS



GENERAL ELECTRICAL NOTES:

1. APPLICABLE STANDARDS: NFPA-101, STATE BUILDING CODES, AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1971 AND ALL AMENDMENTS THERETO; EQUIPMENT, DEVICES, APPARATUS, SYSTEMS, AND INSTALLATIONS SHALL BE ENTIRELY SUITABLE AND SAFE FOR EACH INTENDED APPLICATION AND BE IN FULL COMPLIANCE WITH APPLICABLE STANDARDS, REQUIREMENTS, RULES, REGULATIONS, CODES, STATUTES, ORDINANCES, ETC., OF MUNICIPAL, COUNTY, AND STATE GOVERNMENTS. OWNERS INSURANCE COMPANY, LOCAL UTILITIES, AND LABOR REGULATIONS. NOTHING CONTAINED IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO CONFLICT WITH THESE LAWS, CODES, AND ORDINANCES.
2. DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS OF ELECTRICAL EQUIPMENT. EXACT LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR AND VERIFIED IN THE FIELD PRIOR TO ROUGH-IN.
3. INSTALLATIONS WHICH INCLUDE ELECTRICAL FIXTURES, DEVICES, CONDUIT, SWITCHES, PANELS, HANGERS, WIRE, CABLE, STANDARDS, ETC., MUST BE ENTIRELY SUITABLE FOR TEMPERATURES, HUMIDITY, DAMP AREAS, VOLTAGE, FREQUENCY, AND ALL INSTALLATION CONDITIONS ENCOUNTERED.
4. INSTALLATION MUST BE ENTIRELY SAFE IN EVERY RESPECT, AND MUST NOT CREATE ANY CONDITIONS OF ANY KIND WHICH WILL BE HARMFUL TO ANY OCCUPANT OF THE BUILDING. IF CONTRACTOR BELIEVES THAT INSTALLATION WILL NOT BE SAFE FOR ALL PEOPLE, HE/SHE SHALL SO REPORT IN WRITING TO ENGINEER BEFORE ANY EQUIPMENT IS PURCHASED OR WORK IS INSTALLED, GIVING EXACT RECOMMENDATIONS, AND REASONS FOR THEM.
5. GROUNDING: ALL GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
6. INSTALLATION OF ELECTRICAL DEVICES SHALL BE COORDINATED WITH OTHER TRADES AS NECESSARY TO PREVENT ANY CONFLICTS DURING CONSTRUCTION.
7. LOW VOLTAGE CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
8. WHERE PHONE/DATA OUTLET LOCATIONS ARE INDICATED INSTALL 1" EMT FROM OUTLET BOX (4"x4"x1/2"MIN.) TO TOP OF FINISHED WALL (ABOVE ACT CEILING). FOR OUTLETS LOCATED IN SURFACE MOUNTED RACEWAY, PROVIDE (2) 1" EMT FROM SURFACE RACEWAY BACK BOX TO ABOVE ACT CEILING.
9. WHERE THERMOSTAT LOCATIONS ARE SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RECESSED WALL BOX WITH CONDUIT TO AN ACCESSIBLE LOCATION. IN AREAS WHERE SURFACE MOUNTED BOXES ARE REQUIRED, A SURFACE MOUNTED BOX AND CONDUIT TO 10' AFF SHALL BE PROVIDED (OR TO THE EQUIPMENT LOCATION, WHICHEVER IS CLOSER). THERMOSTAT INSTALLATION AND THE CORRESPONDING LOW VOLTAGE THERMOSTAT WIRING SHALL BE BY THE MECHANICAL CONTRACTOR.
10. LIGHTING: FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS IN ACCORDANCE WITH THE LIGHTING FIXTURE SCHEDULE SHOWN ON THE DRAWINGS. ALL UNITS SHALL BE COMPLETE WITH SUSPENSION ACCESSORIES, CANOPIES, SOCKETS, LOUVERS, FRAMES, AND ROUGH-IN BOXES, WIRED AND ASSEMBLED TO FURNISH A COMPLETE WORKABLE SYSTEM.
11. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PULLED WITH ALL BRANCH CIRCUITS. CONDUIT SHALL NOT BE USED AS A GROUND U.N.O.
12. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, ACCESSORIES, TOOLS, EQUIPMENT, TRANSPORTATION, LABOR, SERVICES AND OPERATIONS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM.
13. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS REQUIRED BY STATE OR LOCAL AUTHORITIES.
14. MATERIALS MUST BE NEW, IN FIRST CLASS CONDITION.
15. CONDUIT SHALL BE SEPARATELY HUNG AND ANCHORED, FREE TO EXPAND AND CONTRACT QUIETLY, WITHOUT IMPOSING STRAINS ON STRUCTURE, DEVICES, AND EQUIPMENT. CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
16. CONTRACTOR SHALL PERFORM EXCAVATION REQUIRED TO INSTALL HIS WORK.
17. SEE ARCHITECTURAL SHEET FOR FIRE RATED CONSTRUCTION LOCATIONS. ALL ELECTRICAL PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE UL LISTED OF EQUAL OR GREATER HOUR RATING.
18. SEE ARCHITECTURAL SHEETS FOR SMOKE PARTITION LOCATIONS. ALL SPACES AROUND ELECTRICAL PENETRATIONS THROUGH A SMOKE PARTITION SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.

ELECTRICAL SYMBOLS



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REVISION HISTORY		
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PRELIMINARY
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HALLSVILLE FOOTBALL LOCKER ROOM
 HALLSVILLE R-IV SCHOOL DISTRICT
 421 E HWY 124
 HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"

Full sized plans have been prepared using standard scales. Reduced sized plans may not conform to standard scales.

DESIGNED	DRAWN
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FIELD	FIELD BOOK

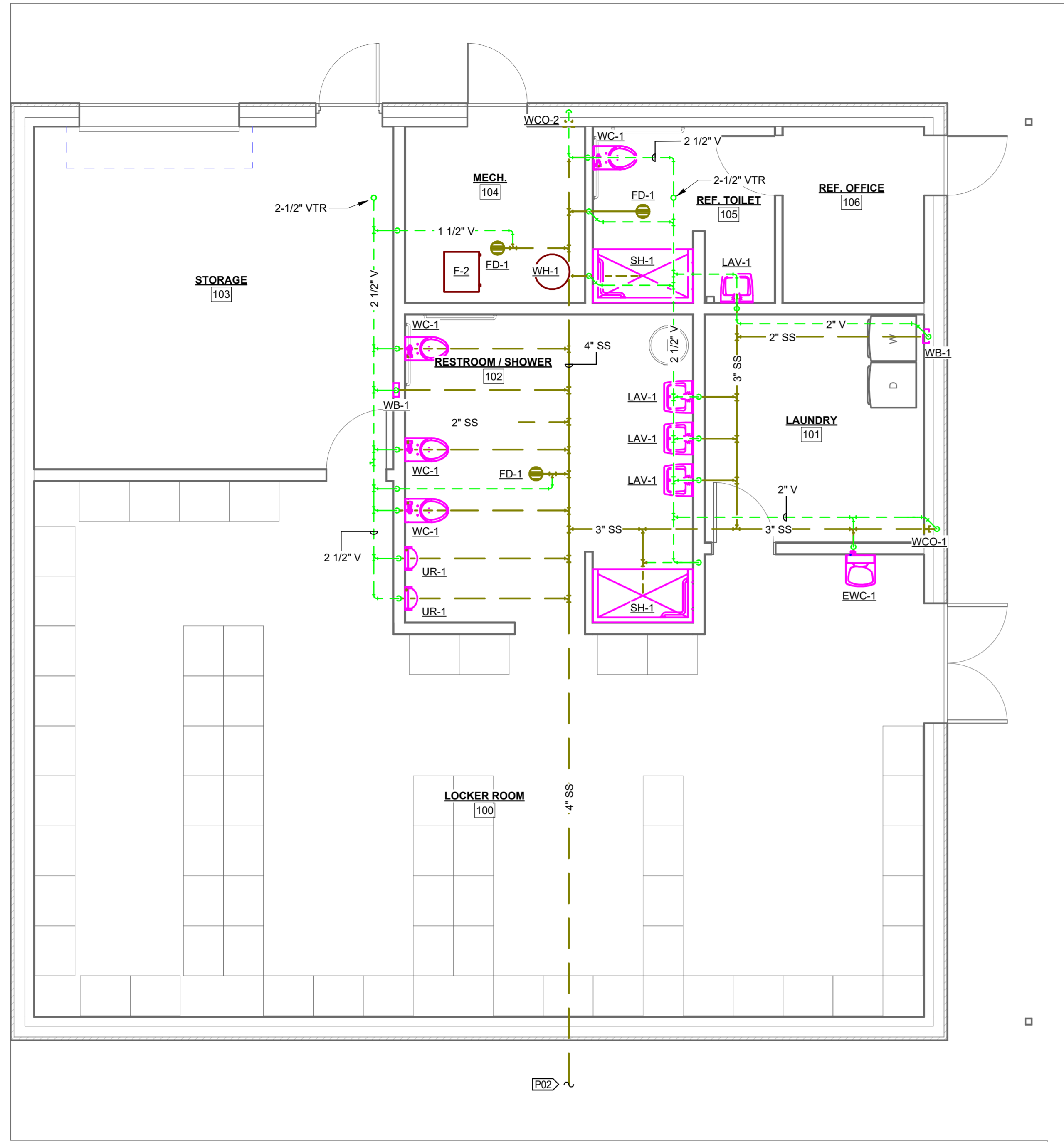
CHECKED	CHECK DATE
MHB	

SHEET TITLE

MEP GENERAL NOTES & SYMBOLS

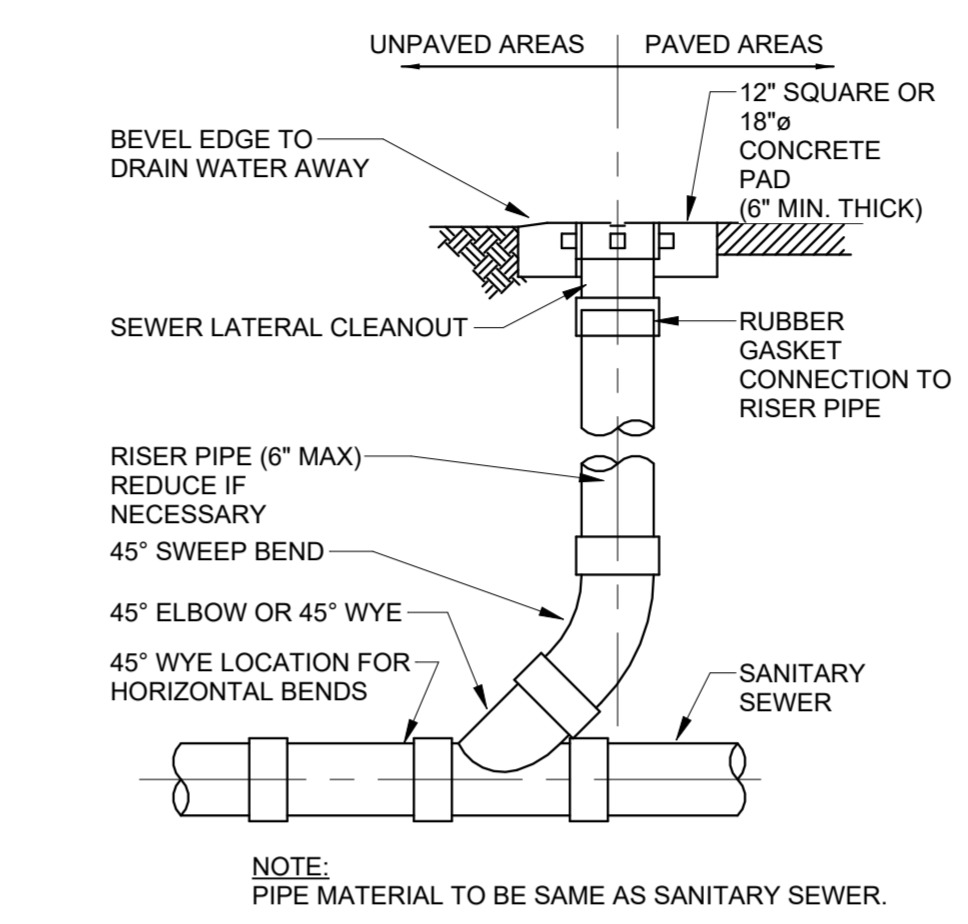
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MEP 101

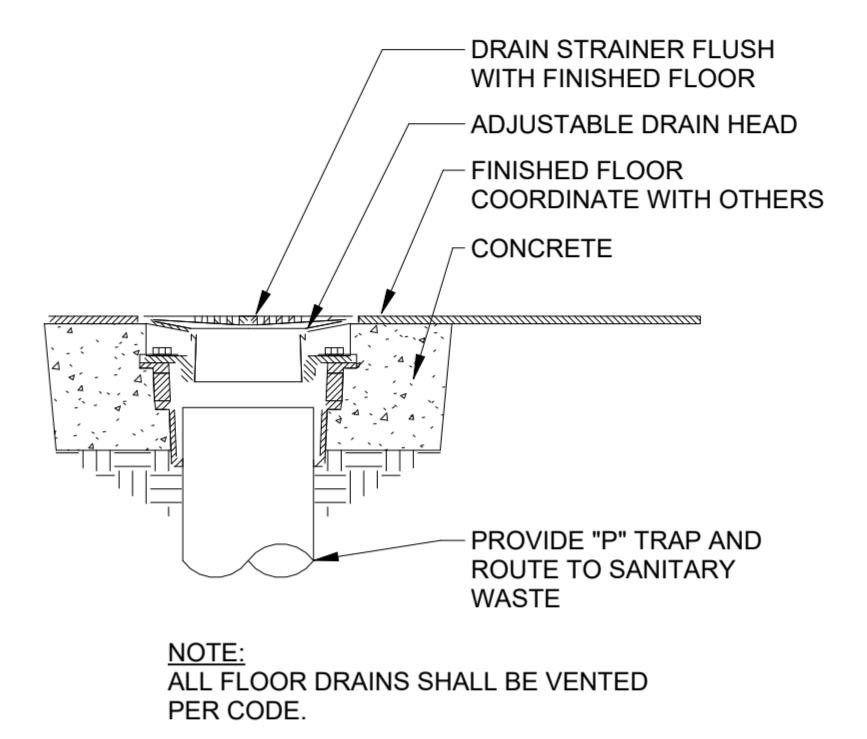


1 DRAIN, WASTE & VENT PLAN
1/4" = 1'-0"

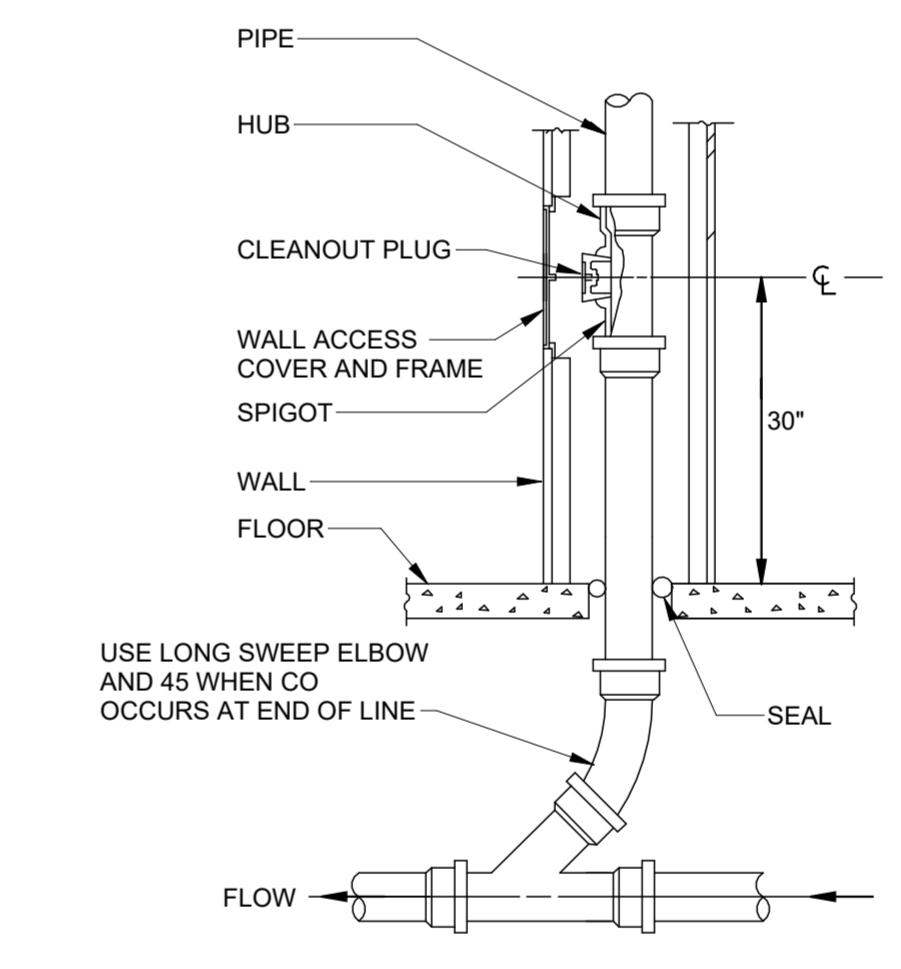
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P02	SEE SITE PLAN FOR CONTINUATION.



2 EXTERIOR CLEANOUT DETAIL
NTS

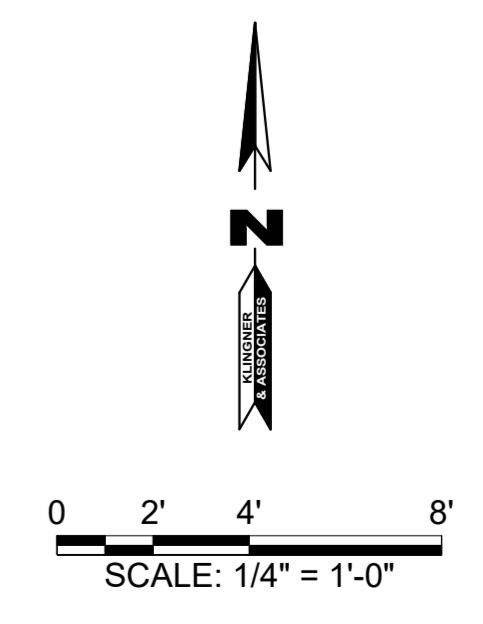


3 FLOOR DRAIN DETAIL
NTS



4 WALL CLEAN OUT DETAIL
NTS

TAG	ADA	TYPE	DESCRIPTION	ROUGH-IN PIPE SIZE					BASIS OF DESIGN		ACCESSORIES		BASIS OF DESIGN		REMARKS
				CW	HW	SS	V	SD	MAKE	MODEL	TYPE	DESCRIPTION	MAKE	MODEL	
EWC-1	Yes	ELECTRIC WATER COOLER	WALL MOUNT, ONE-PIECE HIGH EFFICIENCY, STAINLESS STEEL EXTERIOR, FILTERED, 8.0 GPH, PUSHBAR ACTIVATION, STREAMSAVER BUBBLER, WITH BOTTLE FILLER	1/2"		1-1/4"	1-1/4"		ELKAY OASIS	EZSG8WSSK PG8FEBF (STAINLESS)	CARRIER	RUST RESISTANT COATED STEEL WITH WELDED FEET, ADJUSTABLE TOP AND BOTTOM SUPPORT PLATES, AND STAINLESS STEEL FASTENERS	ZURN JAY R. SMITH WATTS	Z1225 0830 CA-421	COORDINATE FIXTURE ELEVATION WITH ARCHITECTURAL
FD-1	Yes	FLOOR DRAIN	FLOOR DRAIN - ROUND			3"	2"		ZURN JAY R. SMITH SIOUX CHIEF	ZN-415B 2005Y 832-NR	STRAINER	HEEL PROOF, POLISHED NICKEL BRONZE			
LAV-1	Yes	LAVATORY	WALL MOUNT, VITREOUS CHINA, 4" CENTERS	1/2"	1/2"	1-1/2"	1-1/4"		AMERICAN STANDARD GERBER KOHLER	0321.026 12-314 SS-3003-STG	FAUCET	COMMERCIAL, CHROME FINISH, SENSOR OPERATED, BATTERY POWERED, CERAMIC DISC, 0.5 GPM, VANDAL RESISTANT AERATOR, WITH THERMOSTATIC POINT-OF-USE MIXING VALVE LAVATORY SUPPORT SYSTEM WITH CONCEALED ARMS	DELTA CHICAGO GERBER ZURN JAY R. SMITH WADE	591LF 116606AB1 605B.205-PK00.WRK Z1231 0700 520	
SH-1	No	SHOWER	SHOWER UNIT WITH HEADS MOUNTED AT 80" A.F.F.	1/2"	1/2"	2"	2"		LEONARD	SS-PAM-204-VX	SHOWER VALVE & SHOWER HEAD KIT	CHROME FINISH, PRESSURE ACTUATED, SINGLE HANDLE, ANGLE CHECKSTOPS, 1.5 GPM WITH ADJUSTABLE HEAD	LEONARD CHICAGO FAUCET ZURN	4501 SH-PB1-03-000 27301-SSC-MT	
UR-1	Yes	URINAL	WALL MOUNTED, WASHOUT FLUSHING ACTION, VITREOUS CHINA URINAL WITH TOP SPUD	1"		4"	2-1/2"		AMERICAN STANDARD GERBER SLOAN	WASHBROOK FLOWISE 6590.001 27-780 SU-1009-STG	FLUSH VALVE	SENSOR OPERATED WITH BATTERY	SLOAN AMERICAN STANDARD	ROYAL 8186-0.5 6063051.002 ZER6200-CFM 400-AM1-AM11 0617 Z1222-58	
WB-1	No	WASHING MACHINE BOX	1/4 TURN VALVES W/HAMMER ARRESTORS INSTALLED, 2" SLIPNUT DRAIN KIT	1/2"	1/2"	2"	2"		IPS CORPORATION	MWB19	FLUSH VALVE	SENSOR OPERATED WITH BATTERY, ANGLE STOP, NON-HOLD OPEN, 1.6 GPF	AMERICAN STANDARD ZURN SLOAN	6065.161 ROYAL 111-SFSM-1.6 ZTR6200-WS1	
WC-1	Yes	WATER CLOSET	ADA HEIGHT, WALL MOUNTED VITREOUS CHINA, ELONGATED BOWL, SIPHON JET, WATER SAVING, TOP SPUD	1"		4"	2-1/2"		AMERICAN STANDARD ZURN SLOAN	2257.101 25615-BWL ST-2459-BPL-STG	FLUSH VALVE	SENSOR OPERATED WITH BATTERY, ANGLE STOP, NON-HOLD OPEN, 1.6 GPF	AMERICAN STANDARD ZURN SLOAN JAY R. SMITH WADE	5901.100SS 2155SSCT 25956SS-EL-AM-STS	
WCO-1	No	WALL CLEANOUT	CLEANOUT WITH ROUND, POLISHED STAINLESS STEEL ACCESS COVER			3"			ZURN JAY R. SMITH SIOUX CHIEF	Z1468 4450 837	CARRIER	ADJUSTABLE, RATED FOR 750 LB. LOAD			
WCO-2	No	WALL CLEANOUT	CLEANOUT WITH ROUND, POLISHED STAINLESS STEEL ACCESS COVER			4"			ZURN JAY R. SMITH SIOUX CHIEF	Z1468 4450 837	SEAT	ELONGATED BOWL, HEAVY DUTY, OPEN FRONT, ANTI-MICROBIAL			



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421 E HWY 124
HALLSVILLE, MO 65255

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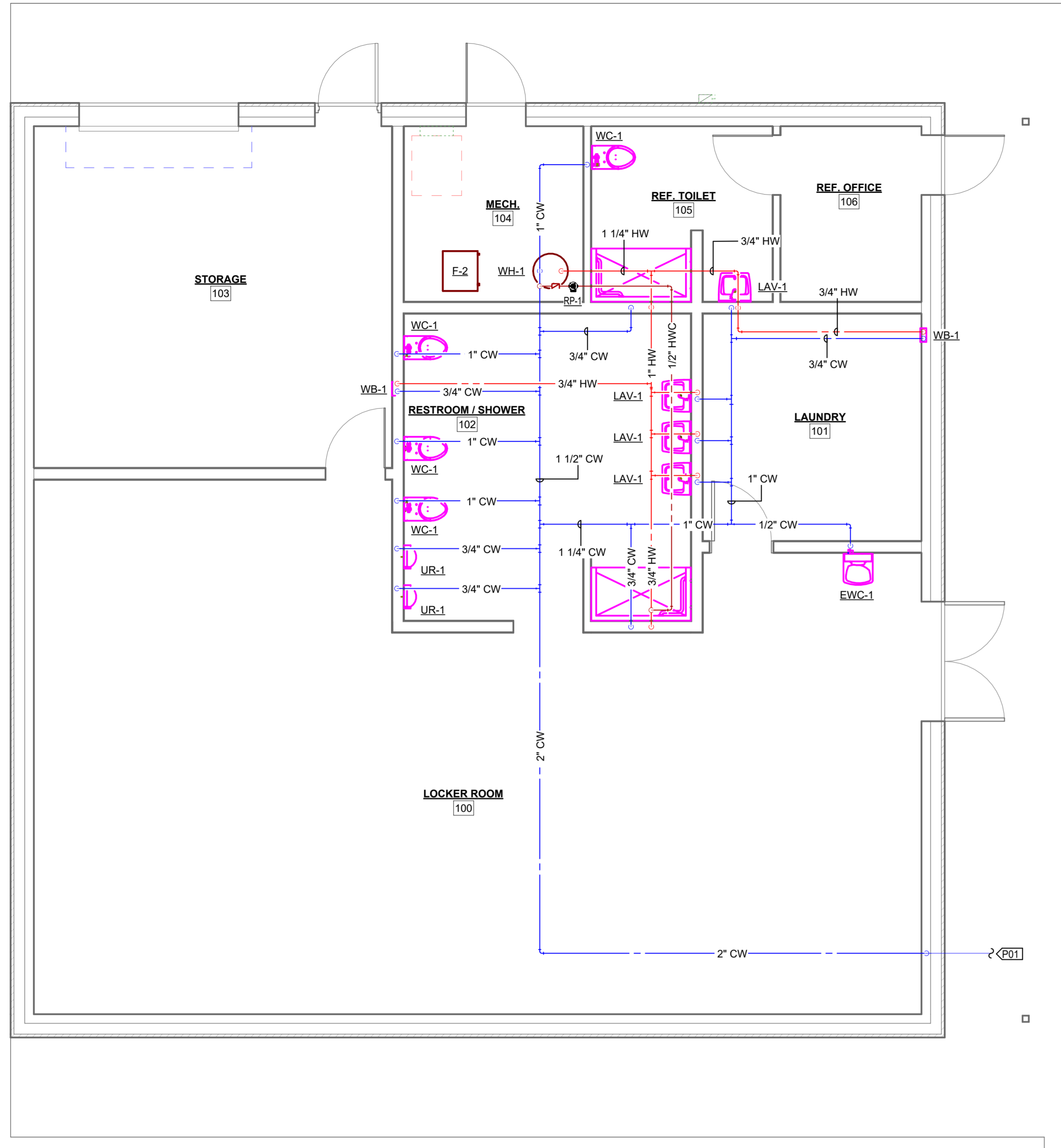
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FIELD	CRB	FIELD BOOK	
CHECKED	MHB	CHECK DATE	

SHEET TITLE
DRAIN, WASTE & VENT PLAN

PROJECT NO.
24-5008

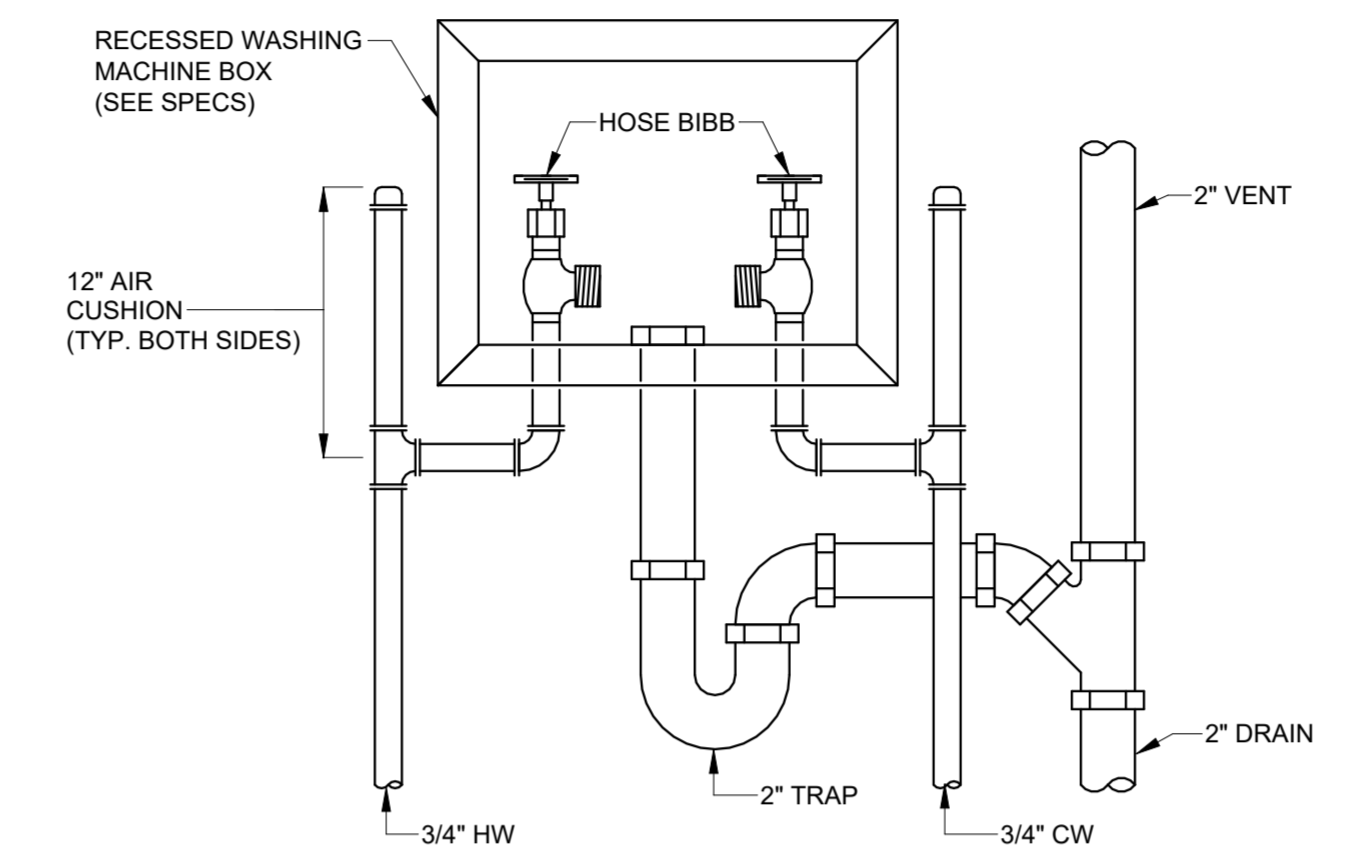
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11/06/2024

SHEET
P101

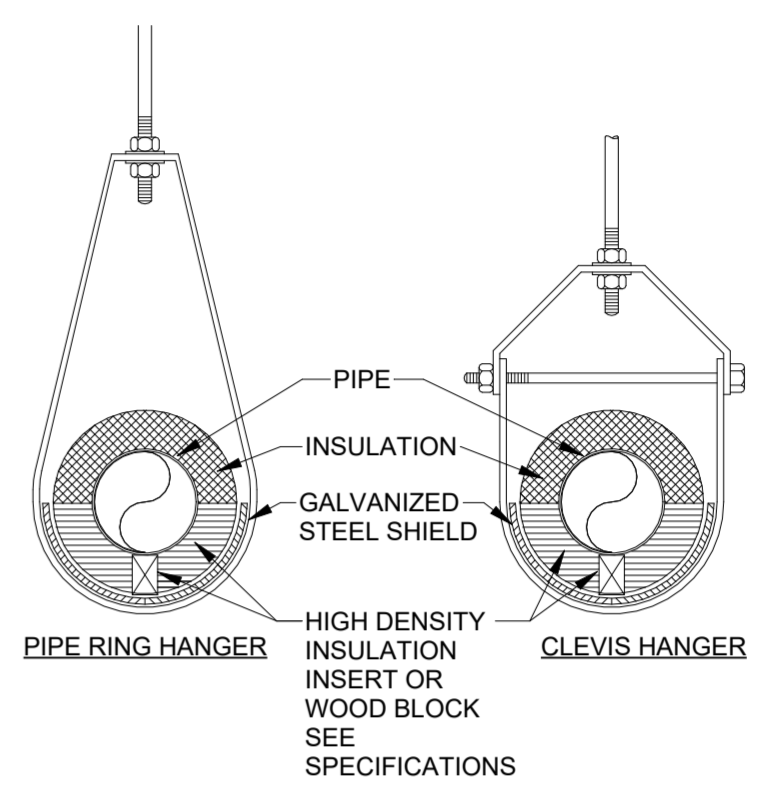


1 DOMESTIC WATER PIPING PLAN
1/4" = 1'-0"

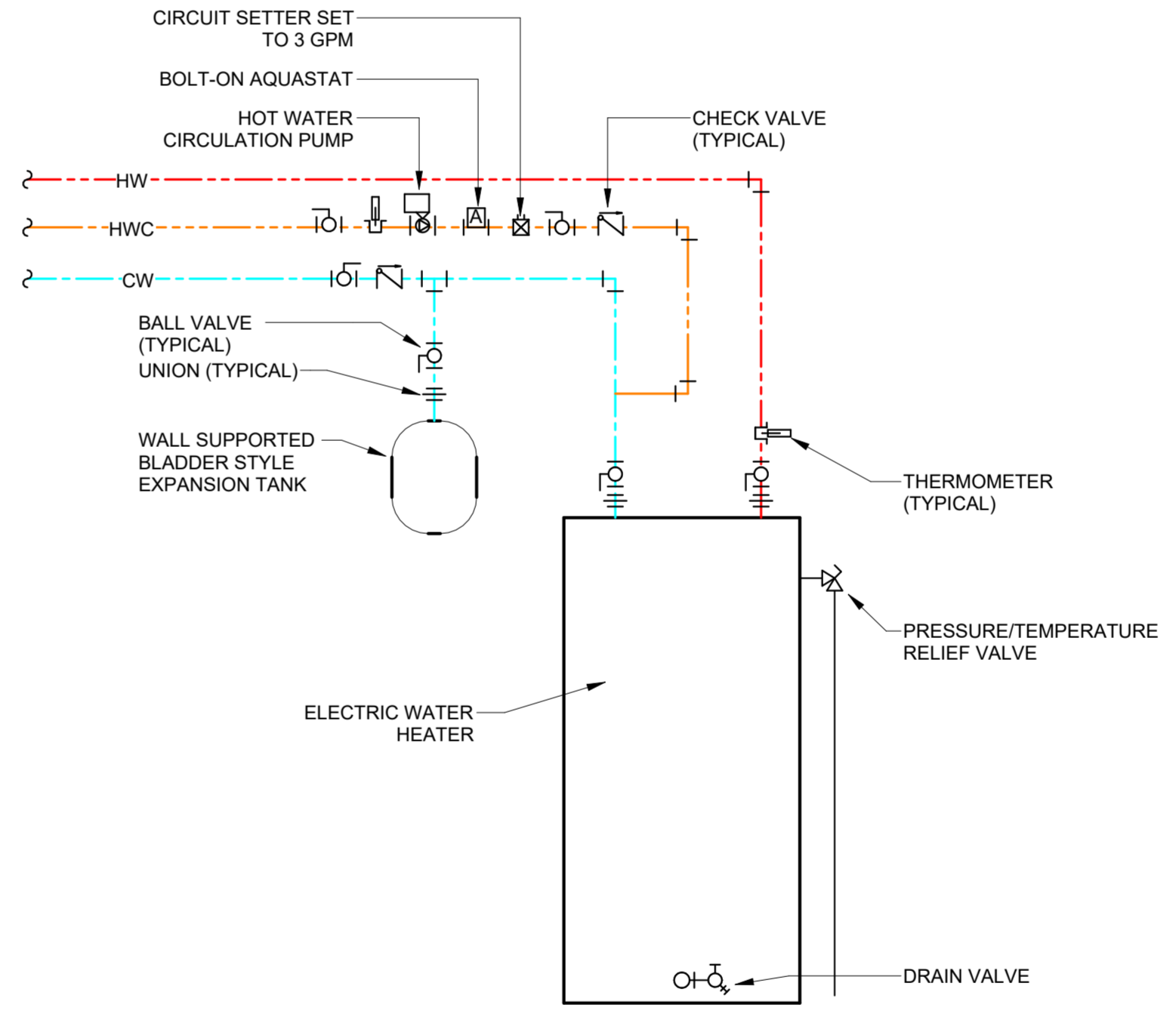
VALUE	DESCRIPTION
P01	TIE INTO WATER LINE SERVING EXISTING BUILDING. SEE SITE PLAN FOR DETAILS.



3 WASHING MACHINE BOX
NTS



4 INSULATED PIPE AT HANGER DETAIL
NTS



2 ELECTRIC DOMESTIC WATER HEATER PIPING SCHEMATIC DIAGRAM
NTS

- NOTES:
- CONTRACTOR SHALL PROVIDE ALL PIPE, VALVES, AND ACCESSORIES AS REQUIRED BY WATER HEATER MANUFACTURER RECOMMENDATIONS.
 - HOT WATER CIRCULATOR SHALL RUN WHEN HWC TEMPERATURE IS BELOW 130°F AS DETERMINED BY A PIPE MOUNTED AQUASTAT (NOT INTEGRAL TO THE PUMP).
 - COLD WATER AND HOT WATER CIRCULATION PIPING SHALL BE ROUTED IN REVERSE RETURN CONFIGURATION WITH HOT WATER.
 - SUBMIT BALANCE VALVE FLOW RATE FOLLOWING SYSTEM STARTUP.

WATER HEATER SCHEDULE												
TAG	DESCRIPTION	VOLUME	HEATING ELEMENT		ELECTRICAL			BASIS OF DESIGN				REMARKS
			HEATING CAP.	QUANTITY	VOLT	POLES	FLA	MOP	MAKE	MODEL	WEIGHT	
WH-1	TANK TYPE ELECTRIC WATER HEATER	50 gal	24 kW	6	208 V	3	29 A	40 A	BRADFORD WHITE	CEHD50(A)243*CF	265 lb	

DOMESTIC RECIRCULATION PUMP SCHEDULE						
MARK	MAX FLOW (GPM)	MAX HEAD (FT)	VOLTAGE	WATTAGE	MAKE	MODEL
RP-1	11	13	120	44	TACO	006e3 ECM

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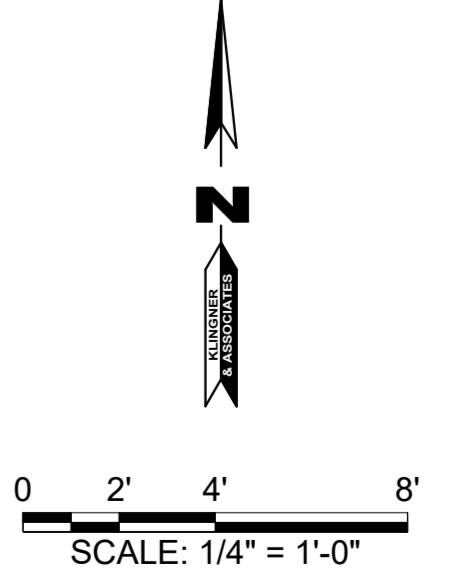
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SHEET TITLE
DOMESTIC WATER PIPING PLAN

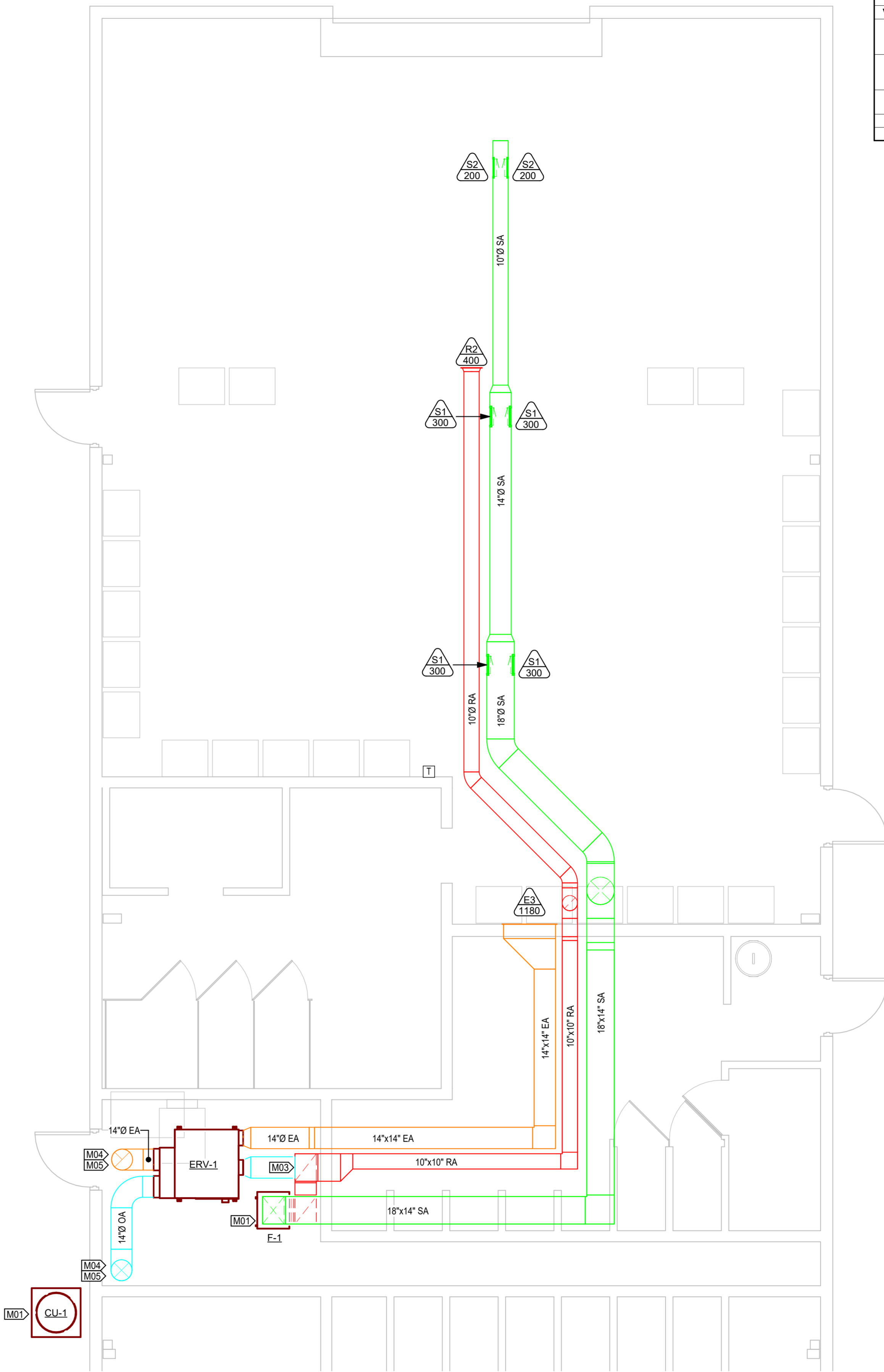
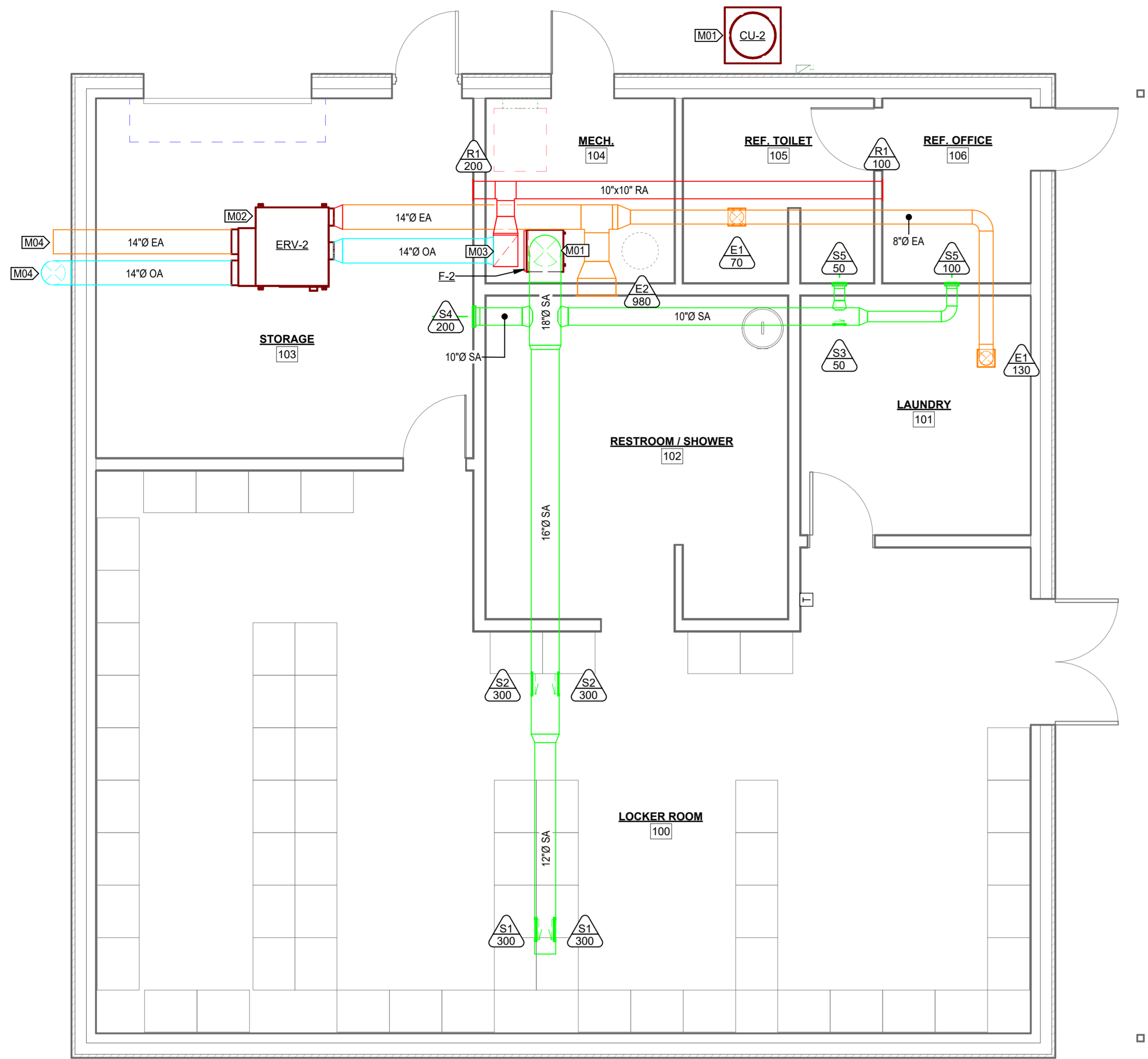
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SHEET
P102



11/4/2024 1:05:10 PM
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VALUE	DESCRIPTION
M01	FURNACE / CONDENSING UNIT PROVIDED BY OWNER. INSTALLED BY CONTRACTOR. CONTRACTOR TO FURNISH & INSTALL REFRIGERANT & REFRIGERANT PIPING. PERFORM VACUUM TEST.
M02	ENERGY RECOVERY VENTILATOR TO OPERATE UPON OCCUPANCY IN LOCKER ROOM. INTERLOCK ERV-1 WITH LOCKER ROOM OCCUPANCY SENSOR LIGHTING CONTROL.
M03	OUTDOOR AIR SUPPLY CONNECTED TO FURNACE RETURN AIR DUCT.
M04	PROVIDE DUCT TERMINATION WITH INSECT SCREEN.
M05	DUCTWORK UP THROUGH ROOF TO GOOSENECK.

KLINGNER & ASSOCIATES, P. C.
 Engineers • Architects • Surveyors
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REVISION HISTORY		
DESCRIPTION	DATE	APPR

ISSUED FOR **11/06/2024**
DESIGN DEVELOPMENT

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE FOOTBALL LOCKER ROOM
HALLSVILLE R-IV SCHOOL DISTRICT
 421 E HWY 124
 HALLSVILLE, MO 65255

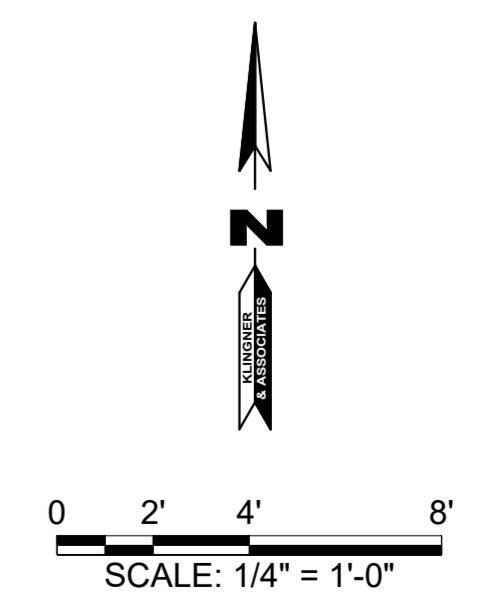
Non-Reduced Sheet Size 24" x 36"	
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DESIGNED: CRB	DRAWN: CRB
FIELD: MHB	FIELD BOOK: MHB
CHECKED: MHB	CHECK DATE: MHB

SHEET TITLE
HVAC PLAN

PROJECT NO.
24-5008
 DRAWING ISSUED DATE:
11/06/2024

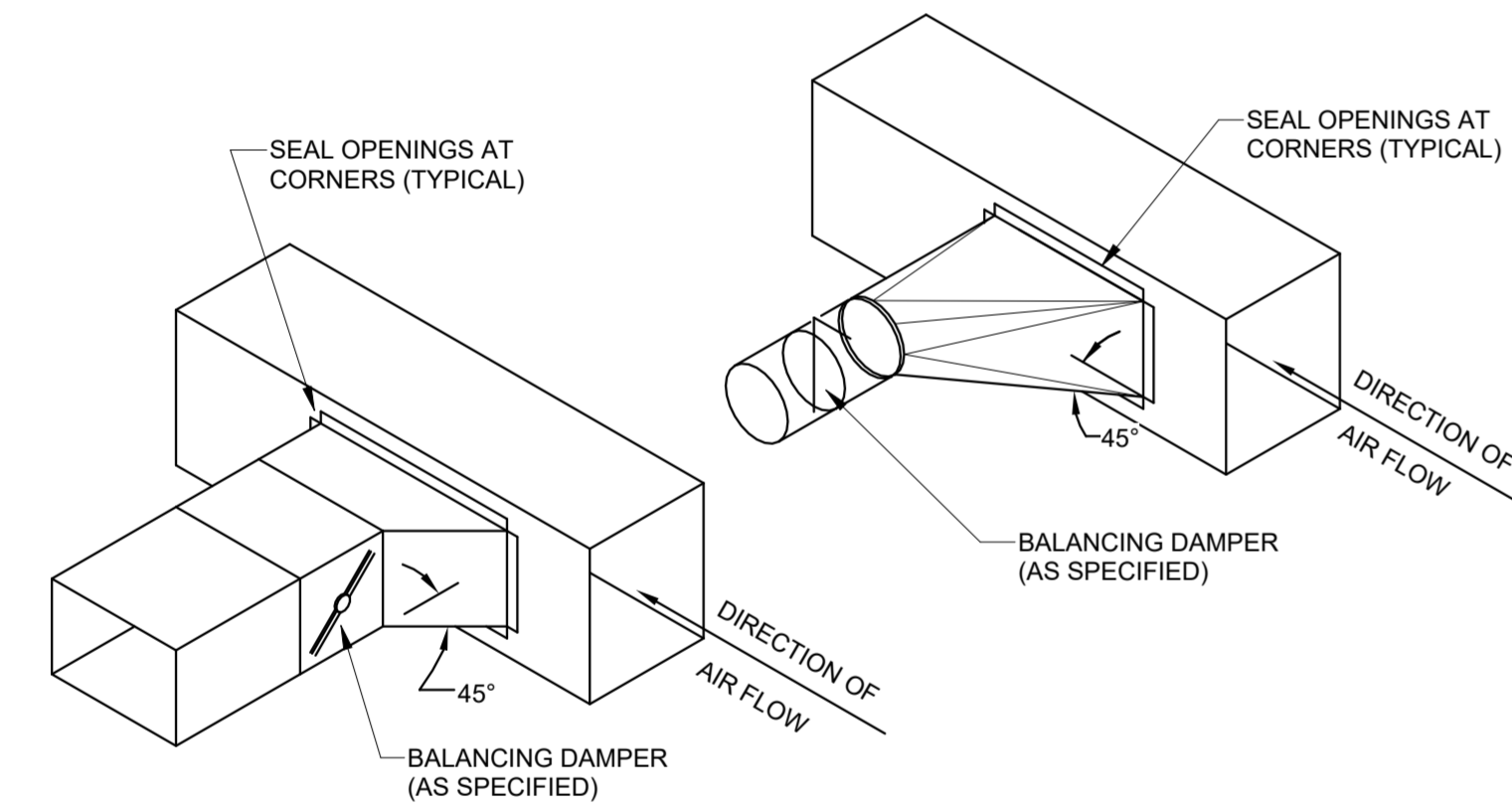
SHEET
M101

1 HVAC PLAN
 1/4" = 1'-0"

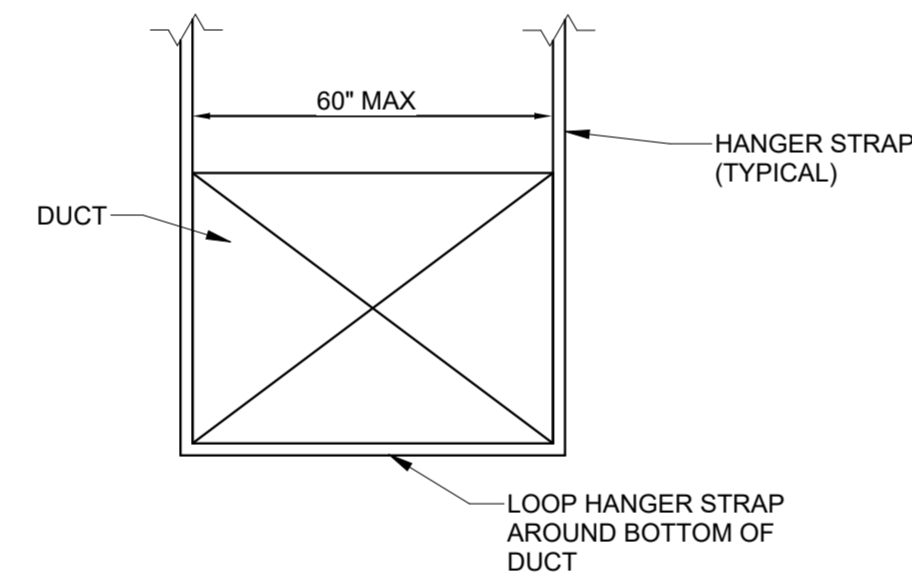


ENERGY RECOVERY VENTILATOR SCHEDULE										
Mark	DESCRIPTION	PERFORMANCE		ELECTRICAL		EFFICIENCY (%)		MAKE	MODEL	REMARKS
		AIRFLOW	E.S.P.	VOLTAGE/PHASE	POWER INPUT (W)	TEMPERATURE EXCHANGE (COOLING/HEATING)	ENTHALPY EXCHANGE (COOLING/HEATING)			
ERV-1	CROSS FLOW FIXED CORE ENERGY RECOVERY VENTILATOR	1180	0.64	208-230/1	930	59 / 58	34 / 49	LG	ARVU123ZFA2	
ERV-2	CROSS FLOW FIXED CORE ENERGY RECOVERY VENTILATOR	1180	0.64	208-230/1	930	59 / 58	34 / 49	LG	ARVU123ZFA2	

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE													
TAG	TYPE	DESCRIPTION	FACE SIZE		CONNECTION SIZE		MATERIAL	FINISH	FRAME/BORDER	DAMPER	BASIS OF DESIGN		REMARKS
			WIDTH	HEIGHT	WIDTH	HEIGHT					MAKE	MODEL	
E1	EXHAUST GRILLE	1/2" x 1/2" x 1" EGGCRATE GRID	12"	12"	10"	10"	ALUMINUM	WHITE	DUCT	--	PRICE TITUS KRUEGER	80	
E2	EXHAUST GRILLE	35 DEG DEFLECTION, BLADES PARALLEL WITH LONG DIMENSION		18"	22"	16"	ALUMINUM	WHITE	WALL	--	PRICE TITUS KRUEGER	630	
E3	EXHAUST GRILLE	35 DEG DEFLECTION, BLADES PARALLEL WITH LONG DIMENSION		16"	34"	14"	ALUMINUM	WHITE	LAY-IN	--	TITUS KRUEGER PRICE	355FL	
R1	RETURN GRILLE	35 DEG DEFLECTION, BLADES PARALLEL WITH LONG DIMENSION	12"	12"	10"	10"	ALUMINUM	WHITE	WALL	--	PRICE TITUS KRUEGER	630	
R2	RETURN GRILLE	35 DEG DEFLECTION, BLADES PARALLEL WITH LONG DIMENSION	14"	14"	12"	12"	ALUMINUM	WHITE	LAY-IN	--	TITUS KRUEGER PRICE	355FL	
S1	SUPPLY REGISTER	DOUBLE DEFLECTION, 1/2" BLADE SPACE, FRONT BLADES PARALLELS WITH LONG DIMENSION	13 1/2"	10"	12"	8"	ALUMINUM	WHITE	DUCT	AIR SCOOP	PRICE TITUS KRUEGER	SDGE	
S2	SUPPLY REGISTER	DOUBLE DEFLECTION, 1/2" BLADE SPACE, FRONT BLADES PARALLELS WITH LONG DIMENSION	13 1/2"	8"	12"	6"	ALUMINUM	WHITE	DUCT	AIR SCOOP	PRICE TITUS KRUEGER	SDGE	
S3	SUPPLY REGISTER	DOUBLE DEFLECTION, 1/2" BLADE SPACE, FRONT BLADES PARALLELS WITH LONG DIMENSION	7 1/2"	8"	6"	6"	ALUMINUM	WHITE	DUCT	AIR SCOOP	PRICE TITUS KRUEGER	SDGE	
S4	SUPPLY GRILLE	DOUBLE DEFLECTION, 3/4" BLADE SPACE, FRONT BLADES PARALLEL WITH LONG DIMENSION	12"	10"	10"	8"	ALUMINUM	WHITE	WALL		PRICE TITUS KRUEGER	620	
S5	SUPPLY GRILLE	DOUBLE DEFLECTION, 3/4" BLADE SPACE, FRONT BLADES PARALLEL WITH LONG DIMENSION	8"	8"	6"	6"	ALUMINUM	WHITE	WALL		PRICE TITUS KRUEGER	620	

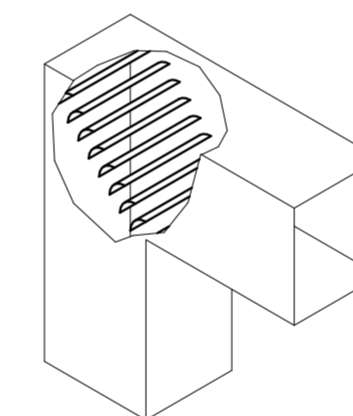


1 BRANCH DUCT CONNECTION DETAIL (TYPICAL)
NTS



NOTE:
CONTRACTOR SHALL VERIFY ALL LOAD LIMITS ON HANGER AND WEIGHTS OF DUCT TO ASSURE ALLOWABLE LOAD LIMITS ARE NOT EXCEEDED.

2 STRAP HANGER DETAIL
NTS



NOTE:
1. ALL DUCT 90° ELBOWS SHALL BE RADIUS ELBOWS (1.5" DEPTH) UNLESS CLEARANCES REQUIRE A SQUARE RADIUS.
2. ALL SQUARE RADIUS ELBOWS SHALL INCLUDE TURNING VANES PER SPECIFICATIONS.

3 TURNING VANE DETAIL
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HALLSVILLE R-IV SCHOOL DISTRICT
421 E HWY 124
HALLSVILLE, MO 65255**

Non-Reduced Sheet Size 24" x 36"

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DESIGNED: CRB DRAWN: CRB

FIELD: CRB FIELD BOOK

CHECKED: MHB CHECK DATE:

SHEET TITLE

HVAC SCHEDULES & DETAILS

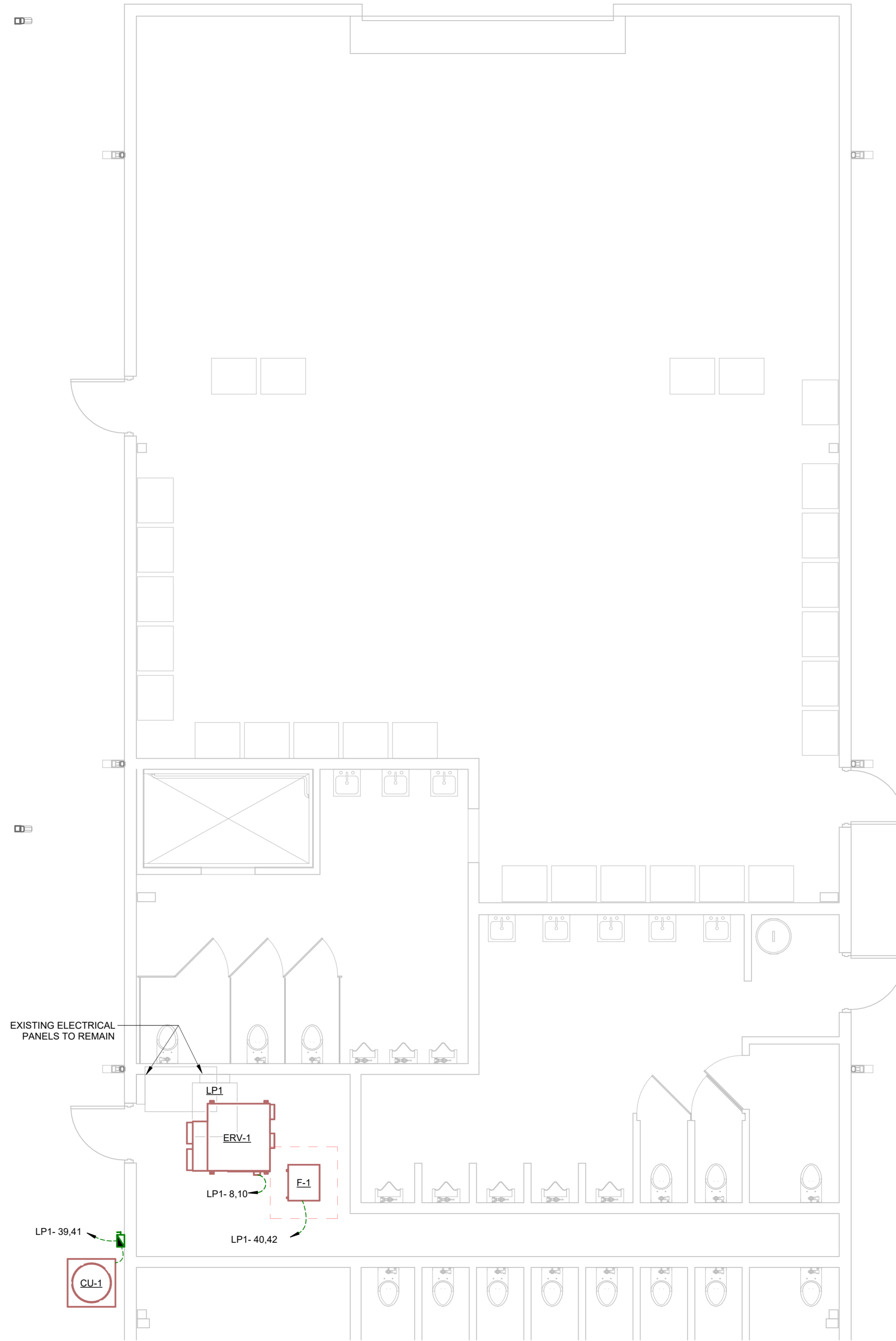
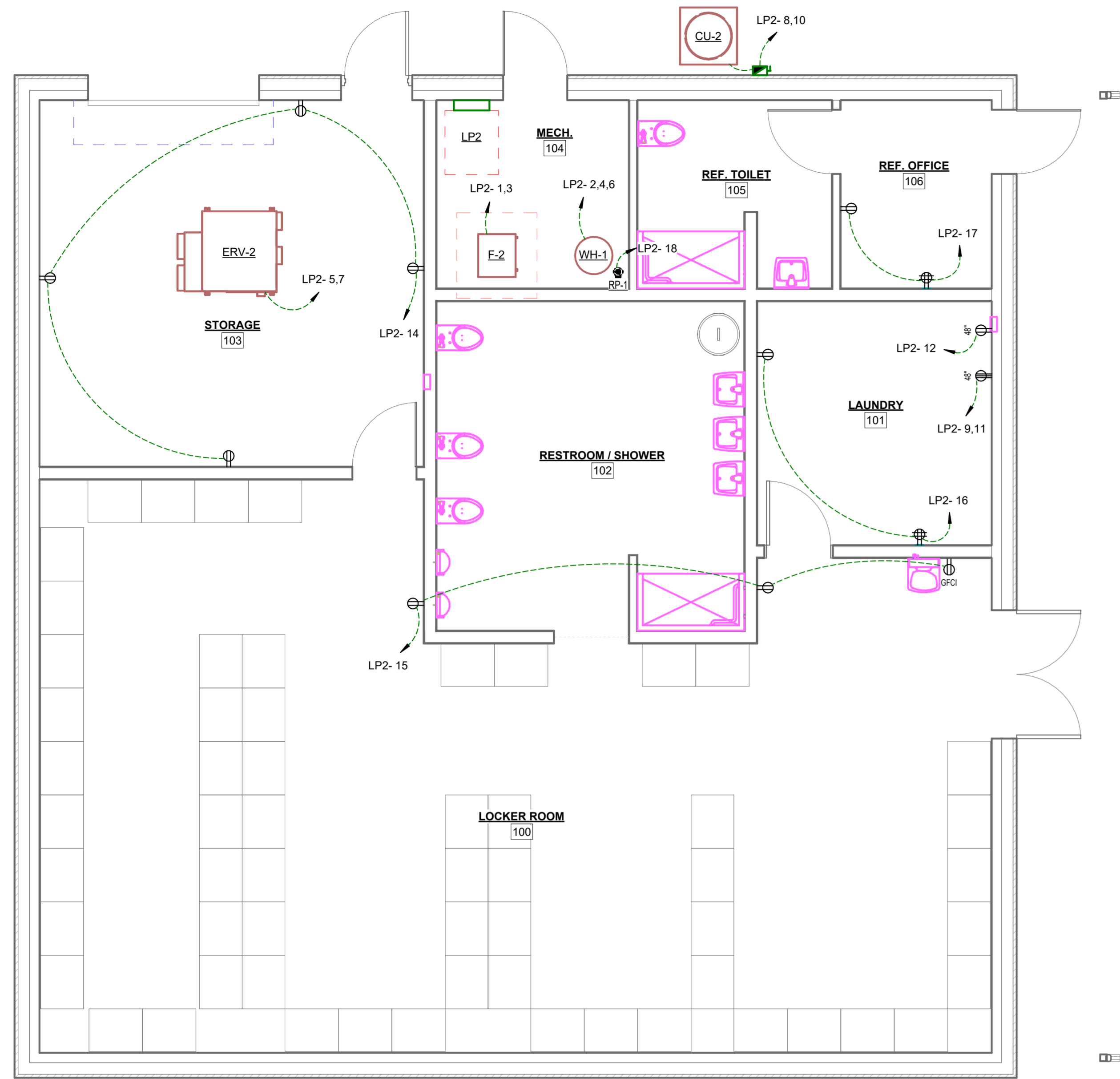
PROJECT NO. **24-5008**

DRAWING ISSUED DATE: **11/06/2024**

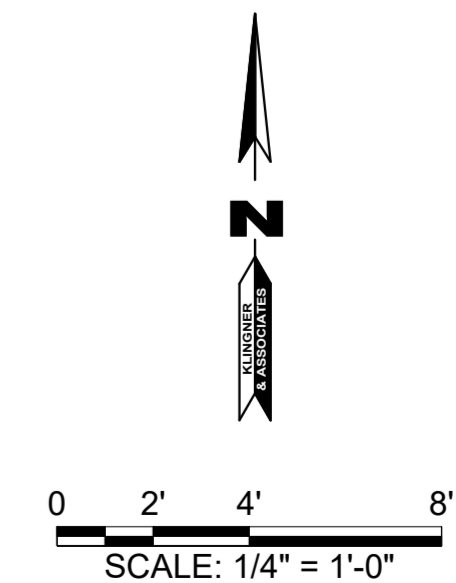
SHEET

M501

11/4/2024 1:05:08 PM
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1 POWER PLAN
 1/4" = 1'-0"



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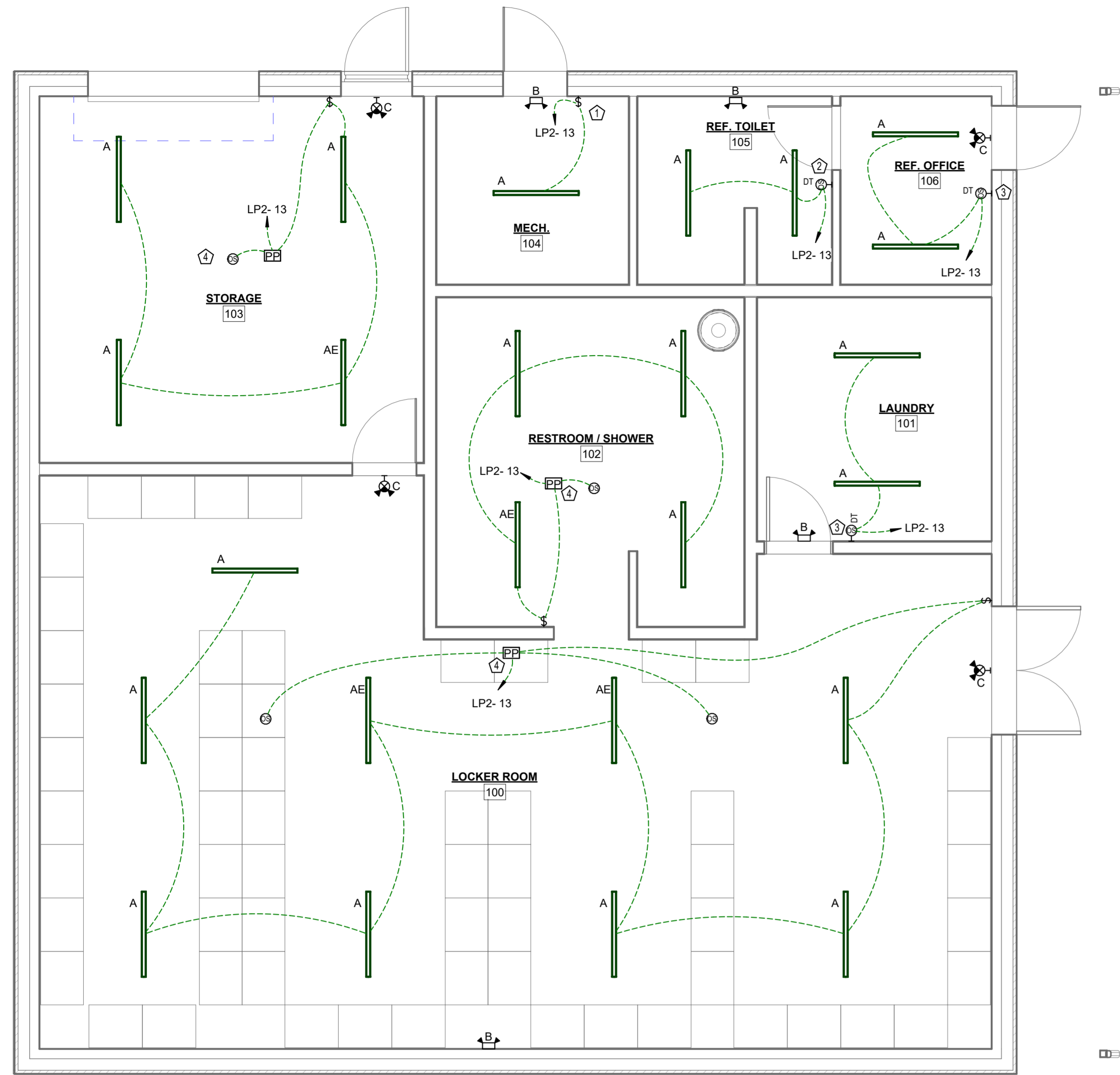
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CHECKED	MHB	CHECK DATE	

SHEET TITLE
POWER PLAN

PROJECT NO.
24-5008

DRAWING ISSUED DATE:
11/06/2024

SHEET
E101



1 LIGHTING PLAN
1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE											
TAG	DESCRIPTION	MOUNT	COLOR TEMP.	OUTPUT	EMERGENCY FIXTURE	DRIVER CONTROL	VOLT	LOAD	BASIS OF DESIGN		REMARKS
									MANUFACTURER	MODEL	
A	4 FT LED STRIP LIGHT	SUSPENDED	3500 K	4,000 lm		ON/OFF	120 V	36 VA	LITHONIA	CSS	
AE	4 FT LED STRIP LIGHT	SUSPENDED	3500 K	4,000 lm	Yes	ON/OFF	120 V	36 VA	LITHONIA	CSS	
B	EMERGENCY WALL PACK - 2 HEAD LAMPS	WALL		640 lm	Yes		120 V	26 VA	LITHONIA	ELM4L	
C	EMERGENCY EXIT COMBO SIGN	WALL		160 lm	Yes		120 V	26 VA	ACUITY	QMLD	

BRANCH PANEL: LP2										
LOCATION: MECH. 104			VOLTS: 120/208			A.I.C. RATING: 10,000 AMPS SYMMETRICAL				
SUPPLY FROM:			PHASES: 3			PANEL TYPE: MAIN CB				
MOUNTING: SURFACE			WIRES: 4			MAINS RATING: 225 A				
ENCLOSURE: NEMA1			ACCESSORIES:			MAIN BREAKER: 225 A				
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	F-1	20 A	2	7,824 VA	8,000 VA					2
3					7,824 VA	8,000 VA				4
5						465 VA	8,000 VA			6
7	ERV-1	20 A	2	465 VA	2,760 VA					8
9					3,000 VA	2,760 VA				10
11	DRYER	20 A	2							12
13	LIGHTING	20 A	1	864 VA	720 VA		3,000 VA	1,500 VA	1	20 A
15	RCPTS - LOCKER ROOM	20 A	1						1	20 A
17	RCPTS - REF OFFICE	20 A	1				540 VA	360 VA	1	20 A
19							540 VA	22 VA	1	20 A
21										20
23										22
25										24
27										26
29										28
31										30
33										32
35										34
37										36
39										38
41										40
										42
				PHASE LOAD:	19,639 VA	21,432 VA	12,897 VA	**TOTAL LOAD: 53,860 VA		
				PHASE AMPS:	172 A	187 A	107 A	**TOTAL AMPS: 149 A		

* FIELD VERIFY BREAKER SIZE WITH ACTUAL EQUIPMENT PROVIDED. COORDINATE WITH OTHER CONTRACTORS AS NECESSARY.
**TOTAL LOAD AND TOTAL AMPS DO NOT INCLUDE DEMAND FACTOR CALCULATIONS.

LIGHTING CONTROL MATRIX																
TAG	DEVICE	ROOM/ZONE	CONTROL	CAPABILITIES												
				LINE VOLTAGE	LOW VOLTAGE	MANUAL ON	MANUAL OFF	MANUAL DIMMING	SCENE SELECTION	OCC. SENSOR (ON/OFF)	VAC. SENSOR (ON/OFF)	PHOTOCONTROL (ON/OFF)	TIMELOCK (ON/OFF)	MOTION SENSOR	ACTIVATED BY FIRE ALARM	SEQUENCE OF OPERATION
1	X			X	X	X	X									
2	X			X	X	X	X			X						
3	X			X	X	X	X				X					
4	X			X	X	X	X									

LIGHTING CONTROL SEQUENCES OF OPERATION

- LINE VOLTAGE, MANUAL SWITCH CONTROL:
 - LIGHTING SHALL BE SWITCHED ON OR OFF BY STANDARD TOGGLE SWITCH(ES).
- LINE VOLTAGE, WALL MOUNT, OCCUPANCY SENSOR SWITCH CONTROL:
 - UPON DETECTION OF MOTION LIGHTING SHALL BE AUTOMATICALLY SWITCHED ON.
 - AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE AUTOMATICALLY SWITCHED OFF.
 - LIGHTING MAY BE SWITCHED ON OR OFF BY MANUAL PUSHBUTTON(S).
- LINE VOLTAGE, WALL MOUNT, VACANCY SENSOR CONTROL:
 - AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE AUTOMATICALLY SWITCHED OFF.
 - LIGHTING MAY BE SWITCHED ON OR OFF BY MANUAL PUSHBUTTON(S).
- LOW VOLTAGE, CEILING MOUNT, OCCUPANCY SENSOR CONTROL WITH WALL SWITCH:
 - UPON DETECTION OF MOTION LIGHTING SHALL BE AUTOMATICALLY SWITCHED ON.
 - AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE AUTOMATICALLY SWITCHED OFF.
 - LIGHTING MAY BE SWITCHED ON OR OFF BY MANUAL PUSHBUTTON(S).

2 LIGHTING CONTROL MATRIX
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SHEET TITLE

LIGHTING PLAN

PROJECT NO. 24-5008

DRAWING ISSUED DATE: 11/06/2024

SHEET

E102

