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GENERAL PROJECT NOTES

A. THE FOLLOWING GENERAL NOTES APPLY TO THESE CONTRACT DOCUMENTS AND ARE NOT SPECIFIC TO ANY ONE DISCIPLINE.
B. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
C. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR.
D. THE CONSTRUCTION DOCUMENTS ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE CONSTRUCTION OF THE PROJECT.
E. THE GENERAL NOTES, SYMBOLS AND DEFINITIONS APPLICABLE ONLY TO EACH DISCIPLINE CAN BE FOUND AT THE FRONT OF EACH DISCIPLINES PORTION OF THE SET OF DRAWINGS AND IS LISTED AS PART OF THE OVERALL PROJECT INDEX OF DRAWINGS.
F. BASIC FIRE PROTECTION AND THE EXITING SCHEME ARE ILLUSTRATED BY THE LIFE SAFETY PLAN(S) AND APPLICABLE FIRE AND BUILDING CODE SUMMARY ON SHEET G-004
G. THE ARCHITECTURAL DRAWINGS ESTABLISH, COORDINATE, AS WELL AS TAKE PRECEDENCE FOR THE FINISH APPEARANCE OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. IF THERE IS A DESCREPANCY IN THE NUMBER OF FIXTURES, DEVICES, ETC. SHOWN ON ARCHITECTURAL DOCUMENTS AND THE DOCUMENTS OF OTHER DISCIPLINES CONTRACTOR'S PRICING SHALL ACCOUNT FOR THE GREATER QUANTITY SHOWN.
H. THE DRAWINGS MAY MAKE REFERENCE TO AND/OR ILLUSTRATE ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRACT. THESE NOT IN CONTRACT ITEMS ARE REFERENCED AND/OR ILLUSTRATED FOR THE CONTRACTORS REFERENCE, INFORMATION, AND COORDINATION ONLY.
I. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH APPLICABLE LAWS, CODES, REGULATIONS, AND ORDINANCES OF THE PLACE (CITY, COUNTY, DISTRICT AND STATE) WHERE THE PROJECT IS LOCATED. SUCH REQUIREMENTS MAY NOT BE REFLECTED BY THESE CONTRACT DOCUMENTS.
J. EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND OR VISUAL FIELD SURVEYS. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
K. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR THE CONSTRUCTION AND OCCUPANCY OF THE PROJECT. THE CONTRACTOR SHALL FURNISH COPIES OF ALL SUCH ITEMS TO THE OWNER AND ARCHITECT WITHIN 10 DAYS OF RECEIPT OF SUCH ITEMS. IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR IF PERMITS ARE DELAYED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT.
L. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN AND PROTECT NEW WORK AS WELL AS EXISTING SYSTEMS AND ELEMENTS WHICH ARE TO REMAIN. ANY DAMAGE TO SUCH SYSTEMS AND ELEMENTS SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT. IF SATISFACTORY REPAIRS CANNOT BE MADE, THE CONTRACTOR SHALL REPLACE SYSTEMS AND ELEMENTS WITH LIKE NEW QUALITY ACCEPTABLE TO THE ARCHITECT. ALL REPAIRS AND REPLACEMENT COST SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

REGION MAP



PROJECT LOCATION



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Indianapolis, IN 46202

IU Project NO. 20240127

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954-846-9600

Code Consultant
FORZA
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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE PRESTON VERED No. 10800034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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PROJECT NO. 23112.000

SHEET TITLE
SHEET INDEX AND PROJECT LOCATION

SHEET NUMBER
G-002

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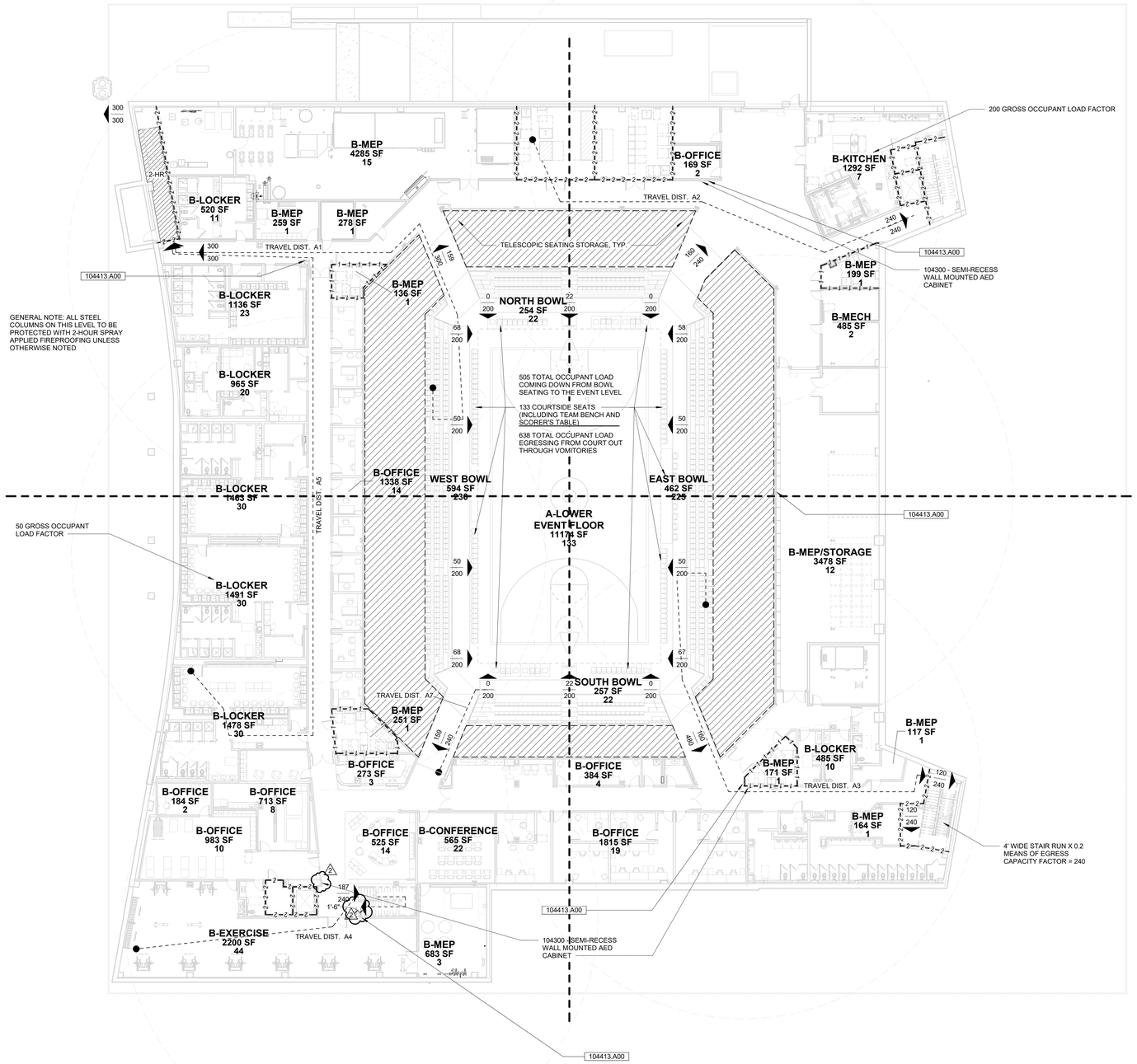

A2 / G-005 **LIFE SAFETY- EVENT LEVEL**

1/16" = 1'-0"

GENERAL LIFE SAFETY PLAN NOTES

A. REFER TO SHEET G-004 FOR CODE SUMMARY.
B. REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATING.
C. REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDING WALL HEIGHT, UL DESIGN, AND FIRE RATING.
D. REFER TO C100 AND C-SERIES DRAWINGS FOR BUILDING ADJACENCIES AND PROPERTY LINES.
E. REFER TO FLOOR PLANS FOR FIRE EXTINGUISHER LOCATIONS.
F. ALL STEEL COLUMNS ARE TO BE PROTECTED PER THE CODE SUMMARY REQUIREMENTS WITH SPRAY APPLIED FIREPROOFING UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL PLANS AND LIFE SAFETY PLANS.

LIFE SAFETY PLAN LEGEND

RM NAME / 150 SF / 20 — ROOM NAME, AREA & OCCUPANT CAPACITY
EXIT DIRECTION ARROW
45 — EXIT POPULATION
120 — EXIT CAPACITY [POPULATION]
PATH OF TRAVEL
FIRE RATED WALL
RATING REQUIRED..30-MIN, 1-HR, 2-HR, ETC.
SMOKE BARRIER
RATING IF REQUIRED..1-HR, 2-HR, ETC.
FIRE RATED WALL
PATTERN INDICATES CODE REQUIRED SEPARATION AS NOTED
FIRE BA... — FIRE SEPARATION AND OTHER ANNOTATION SO NOTED
1-HR — FIRE RATED CEILING. RATING AS NOTED...1-HR, 2-HR, ETC.

OCCUPANT LOAD SCHEDULE

FLOOR LEVEL	OCCUPANT LOAD
00-EVENT LEVEL	981
01-CONCOURSE LEVEL	4644
02-UPPER LEVEL	477
	6102

TRAVEL DISTANCE SCHEDULE

EXIT ROUTE	DISTANCE
TRAVEL DIST. A1	167' - 11"
TRAVEL DIST. A2	138' - 10"
TRAVEL DIST. A3	158' - 3"
TRAVEL DIST. A4	248' - 3"
TRAVEL DIST. A5	249' - 6"
TRAVEL DIST. A7	220' - 0"
TRAVEL DIST. B1	171' - 9"
TRAVEL DIST. B2	174' - 2"
TRAVEL DIST. C1	191' - 4"
TRAVEL DIST. C2	119' - 1"
TRAVEL DIST. C3	189' - 8"
TRAVEL DIST. D1	108' - 10"
TRAVEL DIST. D2	121' - 6"

APPROVED VARIANCES

VARIANCE NUMBER	DESCRIPTION
13-xx-xx(a)	
13-xx-xx(b)	
13-xx-xx(c)	
13-xx-xx(d)	
13-xx-xx(e)	

KEYNOTES (SPEC BASED)

061600.A00

104413.A00	FIRE PROTECTION CABINET

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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BLOOMINGTON, IN 47408
812-855-1692

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PROJECT NO. 23112.000

SHEET TITLE
LIFE SAFETY PLANS

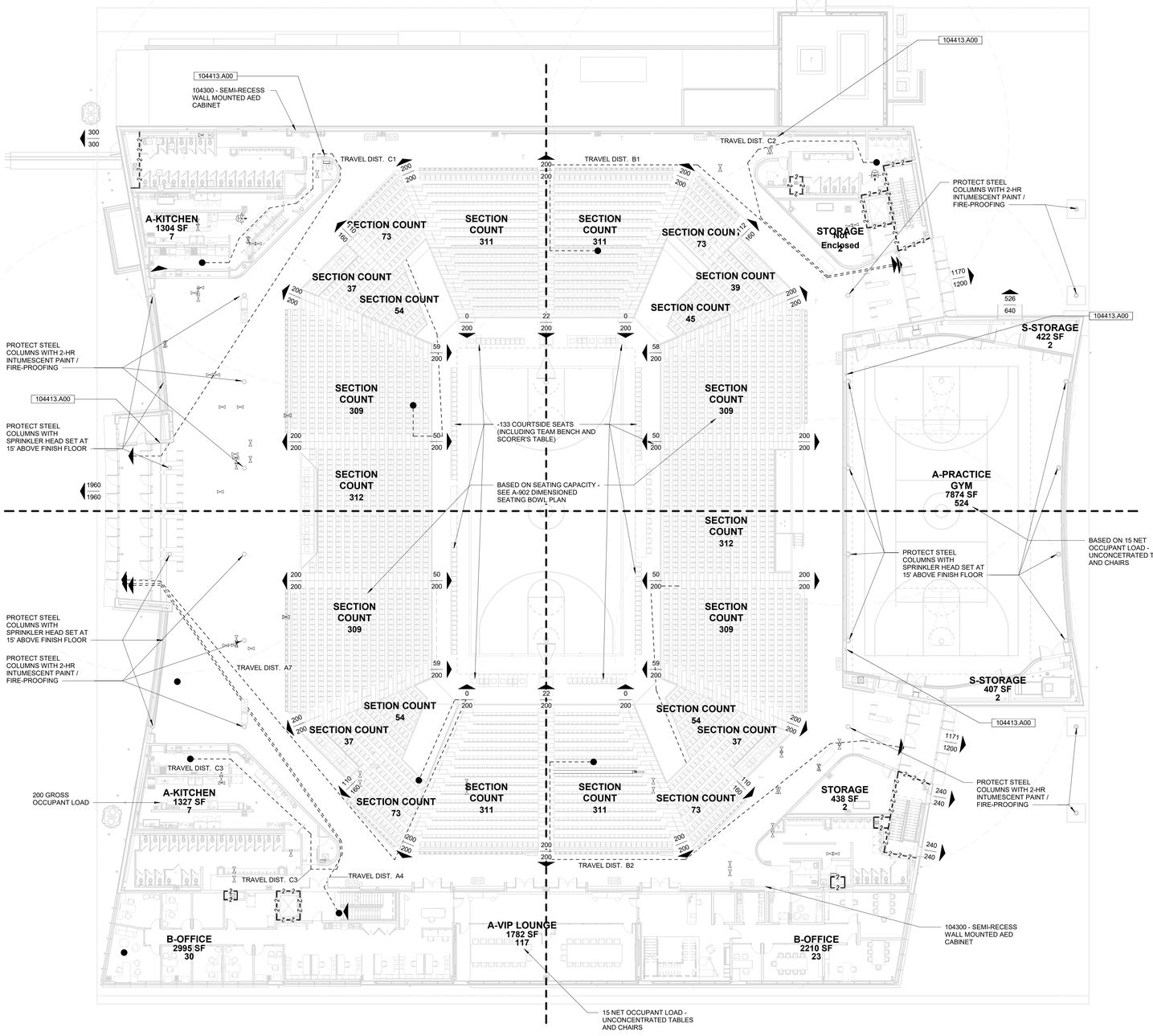
SHEET NUMBER
G-005

1/27/2025 10:58:15 AM

CODE SUMMARY

(Insert image files from your word/pdf code summary in this view)

APPLICABLE CODES & STANDARDS
IBC - INTERNA...



A3 / G-006 **CONCOURSE LEVEL LIFE SAFETY PLAN**
1/16" = 1'-0"

GENERAL LIFE SAFETY PLAN NOTES

A. REFER TO SHEET G-004 FOR CODE SUMMARY.
B. REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATING.
C. REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDING WALL HEIGHT, UL DESIGN, AND FIRE RATING.
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LIFE SAFETY PLAN LEGEND

- RM NAME / 150 SF / 20 — ROOM NAME, AREA & OCCUPANT CAPACITY
- EXIT DIRECTION ARROW
- 45 — EXIT POPULATION
- 120 — EXIT CAPACITY [POPULATION]
- PATH OF TRAVEL
- FIRE RATED WALL
- RATING REQUIRED..30-MIN, 1-HR, 2-HR, ETC.
- SMOKE BARRIER
- RATING IF REQUIRED..1-HR, 2-HR, ETC.
- FIRE RATED WALL
- PATTERN INDICATES CODE REQUIRED SEPARATION AS NOTED
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OCCUPANT LOAD SCHEDULE

FLOOR LEVEL	OCCUPANT LOAD
00-EVENT LEVEL	981
01-CONCOURSE LEVEL	4644
02-UPPER LEVEL	477
	6102

TRAVEL DISTANCE SCHEDULE

EXIT ROUTE	DISTANCE
TRAVEL DIST. A1	167' - 11"
TRAVEL DIST. A2	138' - 10"
TRAVEL DIST. A3	158' - 3"
TRAVEL DIST. A4	248' - 3"
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KEYNOTES (SPEC BASED)

061600.A00

104413.A00	FIRE PROTECTION CABINET

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
LIFE SAFETY PLANS

SHEET NUMBER
G-006

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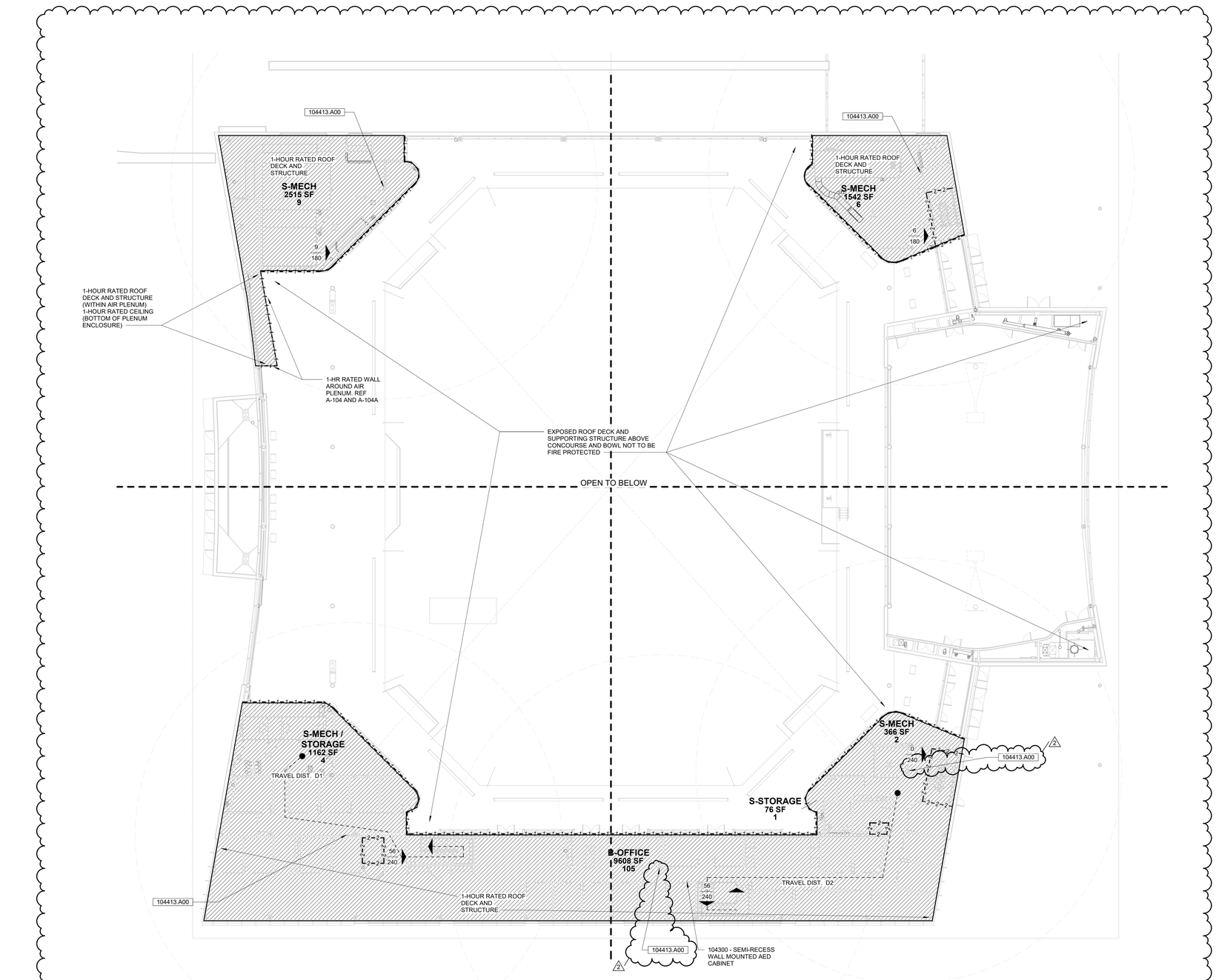

1 G-007 **SECOND LEVEL LIFE SAFETY PLAN**

1/16" = 1'-0"

GENERAL LIFE SAFETY PLAN NOTES

A. REFER TO SHEET G-004 FOR CODE SUMMARY.
B. REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATING.
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150 SF
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120 — EXIT CAPACITY [POPULATION]

PATH OF TRAVEL

2-2-2 — FIRE RATED WALL
RATING REQUIRED..30-MIN, 1-HR, 2-HR, ETC.

3S-3S-3S — SMOKE BARRIER
RATING IF REQUIRED..1-HR, 2-HR, ETC.

FIRE RATED WALL
PATTERN INDICATES CODE REQUIRED SEPARATION AS NOTED

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104413.A00	FIRE PROTECTION CABINET

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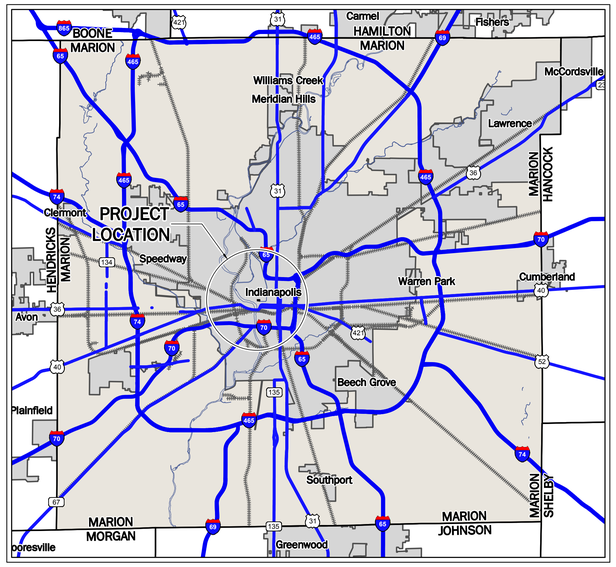
PROJECT NO. 23112.000

SHEET TITLE
LIFE SAFETY PLANS

SHEET NUMBER
G-007

1/27/2025 10:58:55 AM

CONSTRUCTION PLANS
FOR
IN128 - JAMES T. MORRIS ARENA
245 UNIVERSITY BLVD.
INDIANAPOLIS, INDIANA 46202



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

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EXCAVATION PLAN	C120
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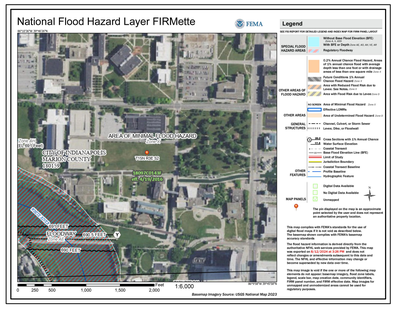
WATER DETAILS	C610
SANITARY SEWER DETAILS	C620–C621



Br	Brookston silty clay loam, 0 to 2 percent slopes
CrA	Crosby silt loam, 0 to 2 percent slopes

SOILS MAP
NOT TO SCALE



FEMA MAP
NOT TO SCALE

WATER QUALITY STRUCTURE SUMMARY TABLE			
NAME:	TYPE	NORTHING:	EASTING:
Q01	CONTECH CASCADE CS–5 WQU	289224.9171	781159.0016
Q02	CONTECH CASCADE CS–5 WQU	289422.6549	781156.0298

SANITARY STRUCTURE SUMMARY TABLE					
PIPE SUMMARY			STRUCTURE SUMMARY		
PIPE SIZE	MATERIAL	LENGTH	TYPE	SIZE	QUANTITY
8"	SDR 26 PVC	240 LF	SANITARY MANHOLE	48"	3

STORM WATER STRUCTURE SUMMARY TABLE					
PIPE SUMMARY			STRUCTURE SUMMARY		
PIPE SIZE	MATERIAL	LENGTH	TYPE	SIZE	QUANTITY
12"	HDPE	262 LF	"E" INLET	30"x30"	1
24"	HDPE	45 LF	"J" INLET	24"x36"	3
12"	RCP	462 LF	"M" INLET	24"x36"	5
15"	RCP	310 LF	"C" MANHOLE	48"	20
18"	RCP	500 LF	"J" MANHOLE	60"	2
24"	RCP	256 LF	NYLOPLAST	30"	5
30"	RCP	43 LF			
84"	UNDERGROUND DETENTION SYSTEM	46,825± CF TOTAL STORAGE			

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855–7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610–5469
GAS	CITIZENS GAS	RICH MILLER	(317) 927–4684
SANITARY SEWER	CITIZENS ENERGY GROUP	BRAD HOSTETLER JR	(317) 927–4351
STORM SEWER	CITY OF INDIANAPOLIS	JEFF MEID	(317) 327–8583
TELEPHONE	AT&T	CHRIS CARSON	(317) 610–5469
WATER	CITIZENS ENERGY GROUP	RICHARD NEWELL	(317) 927–4377
STEAM & CHILLED WATER	CITIZENS ENERGY GROUP	PHILIP SEARCY	(317) 308–9910
TELEPHONE (5G)	T–MOBILE	MELISSA MORENO	(317) 997–8553

(REV. 10/21/24)

DEPT. OF BUSINESS AND NEIGHBORHOOD SERVICES (BNS)
CITY–COUNTY BUILDING
200 E. WASHINGTON STREET, SUITE 107
INDIANAPOLIS, INDIANA 46204
(317) 327–8700

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1–800–382–5544
– INDIANA UNDERGROUND –

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

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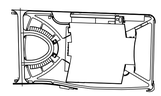

N

KEY PLAN

SEAL | DATE

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

TITLE SHEET

SHEET NUMBER

C001

PLOT DATE: 1/24/2025 4:56 PM
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EDIT DATE: 1/24/2025
EDITED BY: DVELCH
DRAWING FILE: P:\2023\08770\Drawings\Civil\Construction Documents\2023 08677 CE C001 TS.dwg

GENERAL NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
3. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
4. ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT ENGINEER IMMEDIATELY IF ANY VARIATION EXISTS.
5. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

EXISTING TOPOGRAPHY NOTES

1. EXISTING TOPOGRAPHY IS PROVIDED BY:- AMERICAN STRUCTUREPOINT, PROJECT: 2023.00877 DATED: APRIL 27, 2023.
2. SUPPLEMENTAL TOPOGRAPHY IS PROVIDED BY: AMERICAN STRUCTUREPOINT, PROJECT: 2023.03390 DATED: FEBRUARY 09, 2024.

DEMOLITION NOTES

1. CLEAR AND GRUB ALL TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
2. PROTECT TREES TO REMAIN DURING CONSTRUCTION.
3. PLANT MATERIALS TO REMAIN, TO BE PROTECTED BY TREE FENCE WHICH ENCOMPASSES IT'S DRIP LINE. NO CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES. NO DEMOLITION CAN OCCUR UNTIL TREE PROTECTION IS APPROVED BY THE OWNER.
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, FENCES, CONCRETE, ASPHALT PAVEMENT AND OTHER MISCELLANEOUS APPURTENANCES OFF SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
5. DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
6. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES, WITH COMPACTED GRANULAR BACKFILL.
7. THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
8. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS AND OTHER ADJACENT OCCUPIED FACILITIES.
9. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
10. ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
11. PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
12. ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT.
13. NO ON-SITE BURNING IS PERMITTED.
14. CONTRACTOR SHALL USE MEASURES TO CONTROL DUST AT ALL TIMES.
15. DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
16. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.

SITE NOTES

1. ALL PARKING STRIPING SHALL BE 4" IN WIDTH. STRIPING SHALL BE PAINTED WHITE OR PAINTED BLUE (ADA ACCESSIBLE PARKING AREAS) UNLESS NOTED OTHERWISE ON OTHER STREETS.
2. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
4. ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES, UNLESS OTHERWISE NOTED.
5. PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
6. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
7. EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.
8. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
9. CONCRETE SAW CUTTING SHALL BE DONE AS SOON AS POURED CONCRETE HAS CURED AND CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
10. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
11. RADIAL JOINTS SHALL BE NO SHORTER THAN 1.5'.
12. CONTRACTOR SHALL USE A THICKENED EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCK OUT IN THE CONCRETE PAVING.
13. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
14. ALL MATERIALS TO BE IN ACCORDANCE WITH LOCAL DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
15. ALL SIDEWALKS SHALL COMPLY WITH ADA STANDARDS. MAXIMUM CROSS SLOPE OF 1:50 AND MAXIMUM LONGITUDINAL SLOPE OF 1:20.
16. CHAMFER ALL ENDS OF CURBS.

GRADING NOTES

1. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
2. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
4. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT HIS/HER OWN COST.
5. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL SHALL BE PERFORMED BY A LOADED TANDEM PNEUMATIC TIRE DUMP TRUCK MINIMUM GROSS VEHICLE WEIGHT OF 15 TONS. THE TIRES SHALL BE OPERATED AT INFLATION PRESSURES BETWEEN 70-80 PSI UNLESS OTHERWISE NOTED BY THE GEOTECHNICAL ENGINEER. THE TIRES SHALL BE INFLATED WITH AIR ONLY, NO LIQUID SHALL BE USED. THE PROOFROLL SHALL BE COMPLETED UNDER INSPECTION OF SOILS FIRM TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
6. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
7. ALL PROPOSED SPOT ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS. THIS INCLUDES UNPAVED, GRASS, OR LANDSCAPED AREAS, WHERE THE FINAL GRADE SHALL REPRESENT THE TOP OF MULCH, TOPSOIL, OR OTHER MATERIAL AS SPECIFIED.
8. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED. THIS INCLUDES ADJUSTING THE SUBGRADE ELEVATIONS IN UNPAVED AREAS TO ACCOUNT FOR THE ANTICIPATED TOPSOIL, MULCH, OR OTHER MATERIALS SPECIFIED.
9. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
10. CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
11. DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
12. CONTRACTOR TO STABILIZE EXPOSED EARTH AS INDICATED BY THE STORMWATER POLLUTION PREVENTION PLAN OR GOVERNING AUTHORITY.

UTILITY NOTES

1. SITE UTILITIES SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
2. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
4. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
5. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
6. TRENCHES FOR ALL UTILITY LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF THE TOP OF THE TRENCH IS WITHIN 5 FEET OF PAVEMENT.
7. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS WITH THRUST BLOCKS REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS.
8. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, THE CONTRACTOR SHALL EITHER ADJUST THE WATER LINE DOWNWARD IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED OR THE CONTRACTOR SHALL PROVIDE APPROPRIATE BENDS AND CROSSINGS.
9. ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF UTILITIES AND STRUCTURES.
10. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE CITY STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.

EROSION CONTROL NOTES

1. CONTRACTOR SHALL INSTALL ALL PERIMETER SILT FENCE AND SEDIMENT CONTROL BARRIERS PRIOR TO CLEARING AND GRADING.
2. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
4. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING RE-GRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. THE SITE IS NOT LOCATED WITHIN ANY FLOODPLAIN, FLOODWAY OR FLOODWAY FRINGE AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR MARION COUNTY, IN, MAP NUMBER 18097C0143F, DATED 19 APRIL, 2016.
11. SCHEDULE OF EARTHWORK ACTIVITIES:
    a. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. UN-VEGETATED AREAS THAT ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR FIFTEEN (15) DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. ALTERNATIVE MEASURES TO SITE STABILIZATION ARE ACCEPTABLE IF THE PROJECT SITE OWNER OR THEIR REPRESENTATIVE CAN DEMONSTRATE THEY HAVE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
    b. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
    c. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
12. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND PONDS TO DESIGNED GRADES.
13. CONTRACTOR SHALL REMOVE ALL SEDIMENT CONTROL BARRIERS ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.
14. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE CITY STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.
15. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

EXISTING LEGEND

CW	Chilled Water MH	—|—	Sign
◎	Clean Out		Sprinkler Control Valve
	Curb Inlet	TH	Telephone Handhole
	Drainage Inlet		Telephone Marker
D	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant		Water Valve
●	Guard Post	—cw—	Buried Chilled Water Line
☼	Light Pole	—e—	Buried Electric Line
MW	Monitoring Well	—w—	Buried Water Line
P	Power Pole	—ohe—	Overhead Electric Line
S	Sanitary MH	—fo—	Fiber Optic Line

BENCHMARK DATA

(NAVD 88 DATUM)

TBM #1
CHISELED "X" ON SOUTHWEST CORNER OF TRANSFORMER PAD, EAST SIDE OF BLACKFORD ST., AT SOUTHWEST CORNER OF MILITARY PARK.
ELEV: 708.27'

TBM #2
CHISELED "X" ON SOUTH-SOUTH EAST BOLT OF FIRE HYDRANT, NORTH SIDE OF WABASH ST., ACROSS STREET FROM ELECTRIC SUBSTATION.
ELEV: 707.19'

GEOTECHNICAL & ENVIRONMENTAL NOTE:

1. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR INFORMATION ABOUT SOIL CONDITIONS.
2. CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORT FOR INFORMATION ON ENVIRONMENTAL FINDINGS ON THE SITE.

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

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IU Project NO. 20240127

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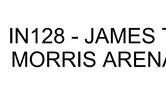
245 UNIVERSITY BLVD.



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KEY PLAN

SEAL | DATE

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NOT FOR CONSTRUCTION
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C	ADDENDUM 01	01/27/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

C002

PLOT DATE: 1/24/2025 4:57 PM
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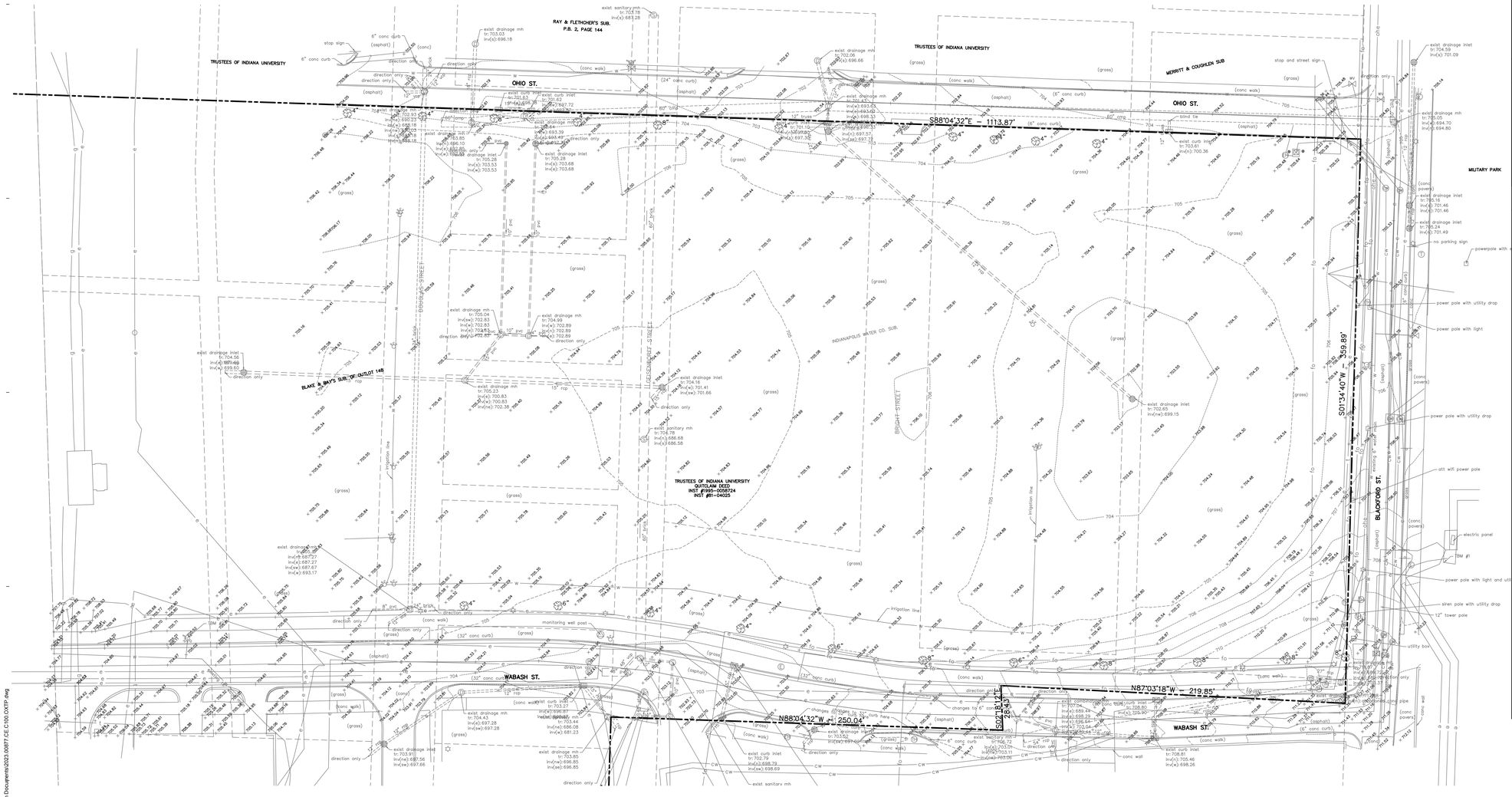



EXISTING LEGEND

Chilled Water MH	Sign
Clean Out	Sprinkler Control Valve
Curb Inlet	Telephone Handhole
Drainage Inlet	Telephone Marker
Drainage MH	Telephone MH
Electric Handhole	Transformer
Electric MH	Tree
Fire Hydrant	Water Valve
Guard Post	Buried Chilled Water Line
Light Pole	Buried Electric Line
Monitoring Well	Buried Water Line
Power Pole	Overhead Electric Line
Sanitary MH	Fiber Optic Line

BENCHMARK DATA

(NAVD 88 DATUM)

TBM #1
CHISELED "X" ON SOUTHWEST CORNER OF TRANSFORMER PAD, EAST SIDE OF BLACKFORD ST., AT SOUTHWEST CORNER OF MILITARY PARK.
ELEV: 708.27

TBM #2
CHISELED "X" ON SOUTH–SOUTH EAST BOLT OF FIRE HYDRANT, NORTH SIDE OF WABASH ST., ACROSS STREET FROM ELECTRIC SUBSTATION.
ELEV: 707.19'

LEGAL DESCRIPTION

TRUSTEES OF INDIANA UNIVERSITY
QUITCLAIM DEED
INSTRUMENT 1995–0058724

LAND IN MARION COUNTY, INDIANA, BEING PART OF OUTLOTS 148 AND 149 AND THE STEAM MILL LOT OF THE DONATION LANDS TO THE CITY OF INDIANAPOLIS AND BEING A PART OF THE SOUTHWEST QUARTER OF SECTION 2, TOWNSHIP 15 NORTH, RANGE 3 EAST OF THE SECOND PRINCIPAL MERIDIAN, BEING ALSO A PART OF LOT 8 AND ALL OF LOTS 9 THRU 15, INCLUSIVE, IN MERRITT AND COUGHLEN'S SUBDIVISION RECORDED IN PLAT BOOK 3, PAGE 153; A PART OF LOTS 11 & 14 AND ALL OF LOTS 1 THRU 10, INCLUSIVE AND LOTS 15 THRU 22, INCLUSIVE, IN INDIANAPOLIS WATER COMPANY'S SUBDIVISION RECORDED IN PLAT BOOK 9, PAGE 114; LOTS 31, 32 AND 54 IN RAY AND FLETCHER'S SUBDIVISION RECORDED IN PLAT BOOK 2, PAGE 144, ALL LOTS (LOTS 1 THRU 38, INCLUSIVE) IN FRANKLIN LANDER'S SUBDIVISION RECORDED IN PLAT BOOK 8, PAGE 117; PART OF LOT 9 AND ALL OF LOT 8 IN BLAKE AND RAY'S SUBDIVISION RECORDED IN DEED RECORD T, PAGE 639 (RE–RECORDED IN PLAT BOOK 2, PAGE 55) IN THE OFFICE OF THE RECORDER OF MARION COUNTY, INDIANA; TOGETHER WITH PORTIONS OF VACATED STREETS AND ALLEYS APPURTENANT TO SAID REAL ESTATE, ALL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE SOUTH RIGHT–OF–WAY LINE OF NEW YORK STREET AND THE WEST RIGHT–OF–WAY LINE OF BLACKFORD STREET, SAID POINT BEING THE NORTHEAST CORNER OF LOT 1 IN SAID MERRITT AND COUGHLEN'S SUBDIVISION; THENCE SOUTH 01°55'04" WEST ALONG THE WEST RIGHT–OF–WAY LINE OF BLACKFORD STREET 380.86 FEET TO A POINT 18.42 FEET SOUTH OF THE NORTHEAST CORNER OF LOT 8 IN SAID MERRITT AND COUGHLEN'S SUBDIVISION BEING THE POINT OF BEGINNING; CONTINUING THENCE SOUTH 01°55'04" WEST ALONG SAID WEST LINE OF BLACKFORD STREET 359.89 FEET TO A POINT 22.00 FEET SOUTH OF THE NORTH LINE OF REAL ESTATE DESCRIBED IN A WARRANTY DEED TO THE CITY OF INDIANAPOLIS RECORDED DECEMBER 28, 1976 AS INSTRUMENT NO. 76–78429 IN THE OFFICE OF SAID RECORDER; THENCE NORTH 86°42'54" WEST 219.85 FEET TO A POINT ON THE WEST LINE OF SAID REAL ESTATE; SAID POINT BEING 26.07 FEET SOUTH OF THE NORTHWEST CORNER THEREOF; THENCE SOUTH 01°57'48" EAST ALONG SAID WEST LINE 28.43 FEET; THENCE 87°44'08" WEST 250.04 FEET TO A POINT ON THE WEST RIGHT–OF–WAY LINE OF GEISENDORFF STREET; THENCE SOUTH 02°08'16" WEST ALONG SAID WEST LINE GEISENDORFF STREET 273.31 FEET TO THE INTERSECTION WITH THE NORTH LINE OF MARKET STREET, SAID POINT BEING ALSO THE SOUTHEAST CORNER OF LOT 9 IN SAID BLAKE AND RAY'S SUBDIVISION; THENCE NORTH 88°06'23" WEST ALONG SAID NORTH LINE OF MARKET STREET 132.60 FEET TO A POINT ON THE NORTHEASTERLY RIGHT–OF–WAY LINE OF PROPOSED AGNES STREET, SAID POINT BEING THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY, THE RADIUS POINT OF SAID CURVE LYING SOUTH 40°29'15" WEST 437.26 FEET FROM SAID POINT; THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE 95.30 FEET (SAID ARC BEING SUBTENDED BY A CHORD BEARING NORTH 55°45'23" WEST AND HAVING A LENGTH OF 95.110 FEET) TO THE POINT OF TANGENCY OF SAID CURVE, THE RADIUS POINT OF SAID CURVE BEING SOUTH 28°00'00" WEST 437.26 FEET FROM SAID POINT; THENCE NORTH 62°00'00" WEST ALONG SAID NORTHEASTERLY LINE OF PROPOSED AGNES STREET589.20 FEET; THENCE NORTH 28°00'00" EAST 15.29 FEET; THENCE NORTH 02°15'52" EAST 205.00 FEET; THENCE SOUTH 87°44'08" EAST 88.50 FEET; THENCE NORTH 02°15'52" EAST 133.50 FEET; THENCE SOUTH 87°44'08" EAST 111.87 FEET TO THE POINT OF BEGINNING, CONTAINING 12.678 ACRES.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855–7894
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(REV. 10/21/24)

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3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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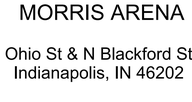

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

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ASI PROJECT NO. 23112.000

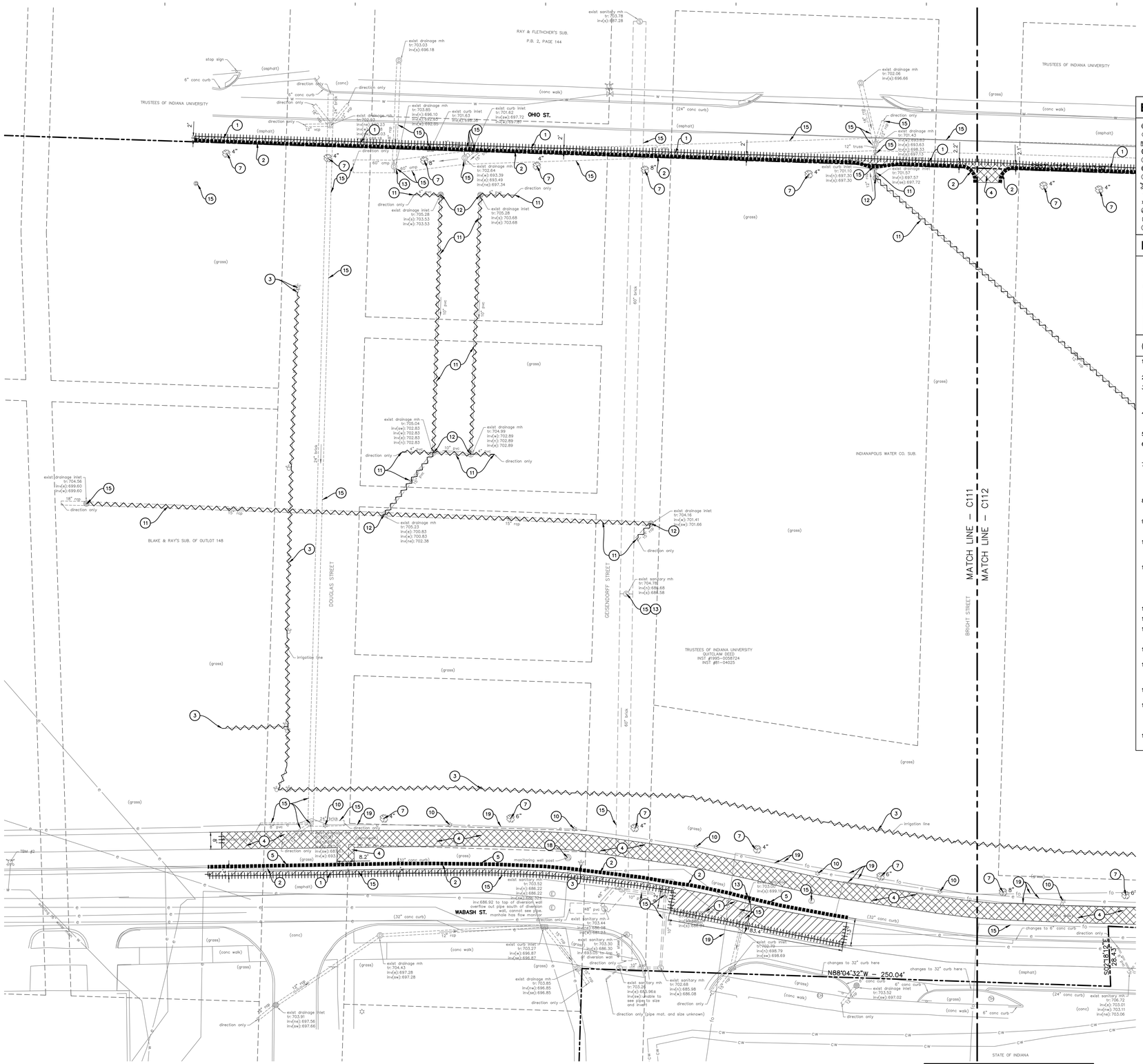
SHEET TITLE

OVERALL EXISTING TOPOGRAPHY

SHEET NUMBER

C100

PLOT DATE: 1/24/2025 4:57 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYLJAA
DRAWING FILE: P:\2023\08770 Drawings\Civil\Construction Documents\2023.08677.CE.C100.DXTP.dwg



EXISTING LEGEND

Chilled Water MH		Sign	
Clean Out		Sprinkler Control Valve	
Curb Inlet		Telephone Handhole	
Drainage Inlet		Telephone Marker	
Drainage MH		Telephone MH	
Electric Handhole		Transformer	
Electric MH		Tree	
Fire Hydrant		Water Valve	
Guard Post	–ce–	Buried Chilled Water Line	
Light Pole	–e–	Buried Electric Line	
Monitoring Well	–w–	Buried Water Line	
Power Pole	–ohe–	Overhead Electric Line	
Sanitary MH	–fo–	Fiber Optic Line	

DEMOLITION LEGEND

- EXISTING UTILITY TO BE REMOVED
- PAVEMENT TO BE SAWCUT
- EXISTING CURB TO BE REMOVED
- EXISTING ASPHALT AND BASE MATERIAL TO BE REMOVED
- EXISTING CONCRETE AND BASE TO BE REMOVED

KEYNOTES

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3. REMOVE EXISTING IRRIGATION SYSTEM, HEADS, VALVES, ETC. WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL MAKE ADJUSTMENTS, AS NEEDED, TO NOT IMPACT ADJACENT IRRIGATION SYSTEMS.
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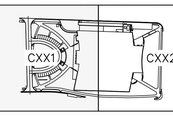

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A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
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C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C111

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PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYLVIA
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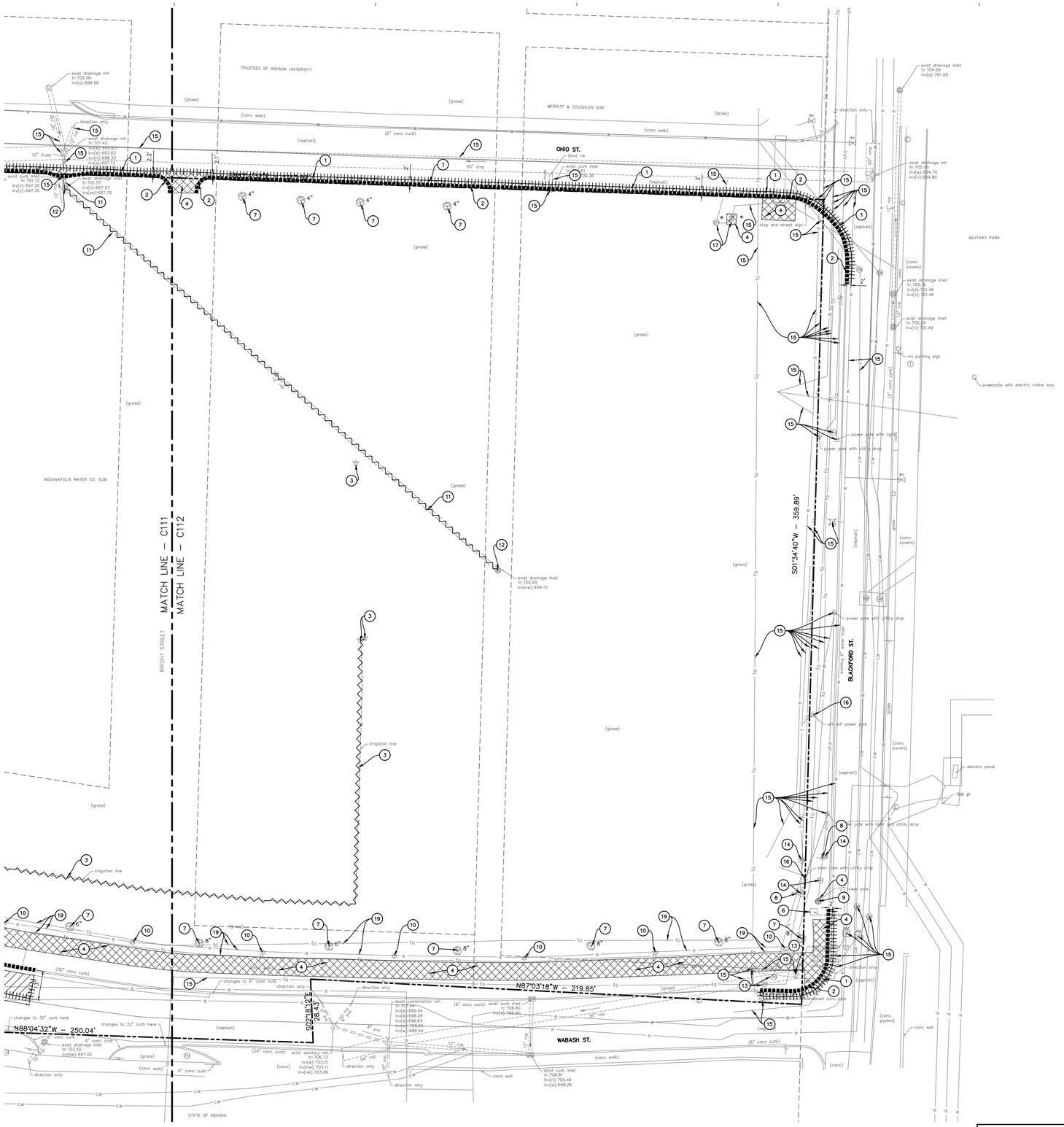

0' 20' 40'

SCALE: 1"=20'

EXISTING LEGEND

CW	Chilled Water MH	—	Sign
◎	Clean Out		Sprinkler Control Valve
	Curb Inlet		Telephone Handhole
	Drainage Inlet		Telephone Marker
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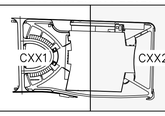
FORT LAUDERDALE, FL 33309
954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

245 UNIVERSITY BLVD.



N

KEY PLAN

SEAL | DATE

APPROVAL PENDING
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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

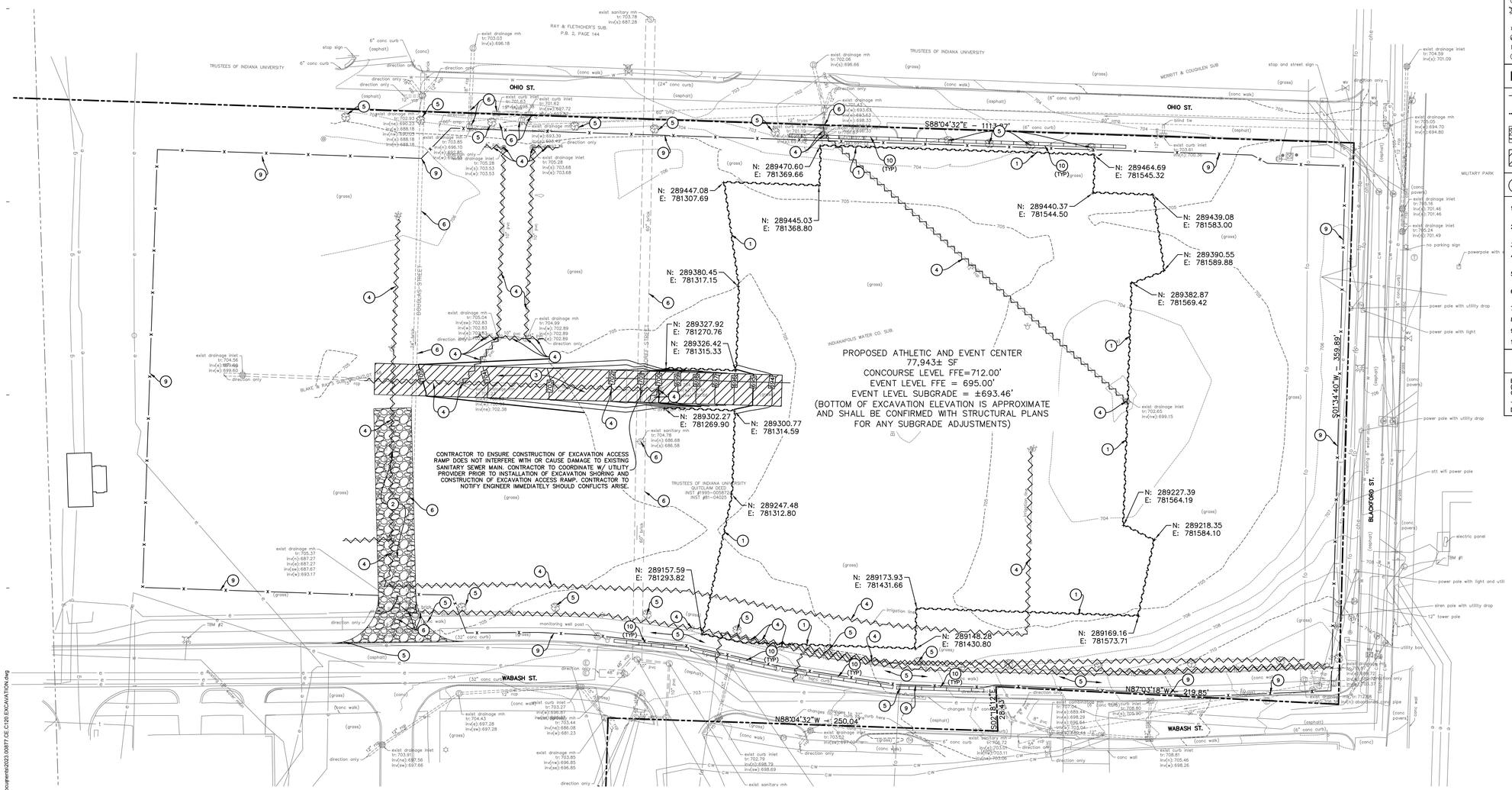
SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C112

PLOT DATE: 1/24/2025 4:57 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYAJIA
DRAWING FILE: P:\2023\0087\0_Drawings\Civil\Construction Documents\2023.0087.CE C111.DP.dwg



SCALE: 1"=30'

EXISTING LEGEND

CW	Chilled Water MH	—	Sign
◎	Clean Out		Sprinkler Control Valve
CI	Curb Inlet	TH	Telephone Handhole
	Drainage Inlet		Telephone Marker
D	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant	W	Water Valve
●	Guard Post	—cw—	Buried Chilled Water Line
☼	Light Pole	—e—	Buried Electric Line
MW	Monitoring Well	—w—	Buried Water Line
	Power Pole	—ohe—	Overhead Electric Line
S	Sanitary MH	—fo—	Fiber Optic Line

EXCAVATION LEGEND

- EXISTING UTILITY TO BE REMOVED/RELOCATED (REFER TO DEMOLITION PLAN)
- EXCAVATION SHORING LIMITS
- STABILIZED CONSTRUCTION ENTRANCE (REFER TO EROSION CONTROL PLAN)
- EXCAVATION ACCESS RAMP

KEYNOTES

1. EXCAVATION SHORING LIMITS (REFER TO STRUCTURAL PLANS FOR DETAILS)
2. STABILIZED CONSTRUCTION ENTRANCE (REFER TO EROSION CONTROL PLAN)
3. DEEP EXCAVATION ACCESS RAMP LOCATION
4. EXISTING UTILITY TO BE DEMOLISHED PER DEMOLITION PLAN (C110–C112)
5. EXISTING SITE ELEMENT TO BE DEMOLISHED PER DEMOLITION PLAN (C110–112)
6. PROTECT UTILITY THROUGHOUT DURATION OF CONSTRUCTION.
7. NOT USED
8. NOT USED
9. CONSTRUCTION FENCING
10. CONCRETE JERSEY BARRIER

EROSION CONTROL NOTES

EROSION CONTROL MEASURES, PER EROSION CONTROL PLAN (SHEET C501–C502), SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES

TEMPORARY DEWATERING TO BE PROVIDED BY CONTRACTOR DURING CONSTRUCTION AS NECESSARY

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855–7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610–5469
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STEAM & CHILLED WATER	CITIZENS ENERGY GROUP	PHILIP SEARCY	(317) 308–9910
TELEPHONE (5G)	T–MOBILE	MELISSA MORENO	(317) 997–8553

(REV. 10/21/24)

GENERAL NOTES:

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2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
INDIANA UNIVERSITY BOARD OF TRUSTEES
2901 EAST DISCOVERY PARKWAY
BLOOMINGTON, IN 47408
812-855-1692

Architect
RATIO
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317-633-4040

Structural Engineer
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3535 EAST 96TH STREET
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Mechanical / Electrical Engineer
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816-806-3729

245 UNIVERSITY BLVD.

CXX1 CXX2

KEY PLAN

SEAL | DATE

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SHEET ISSUE

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ASI PROJECT NO. 23112.000

SHEET TITLE

EXCAVATION PLAN

SHEET NUMBER

C120

PLOT DATE: 1/24/2025 4:57 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYLVIA
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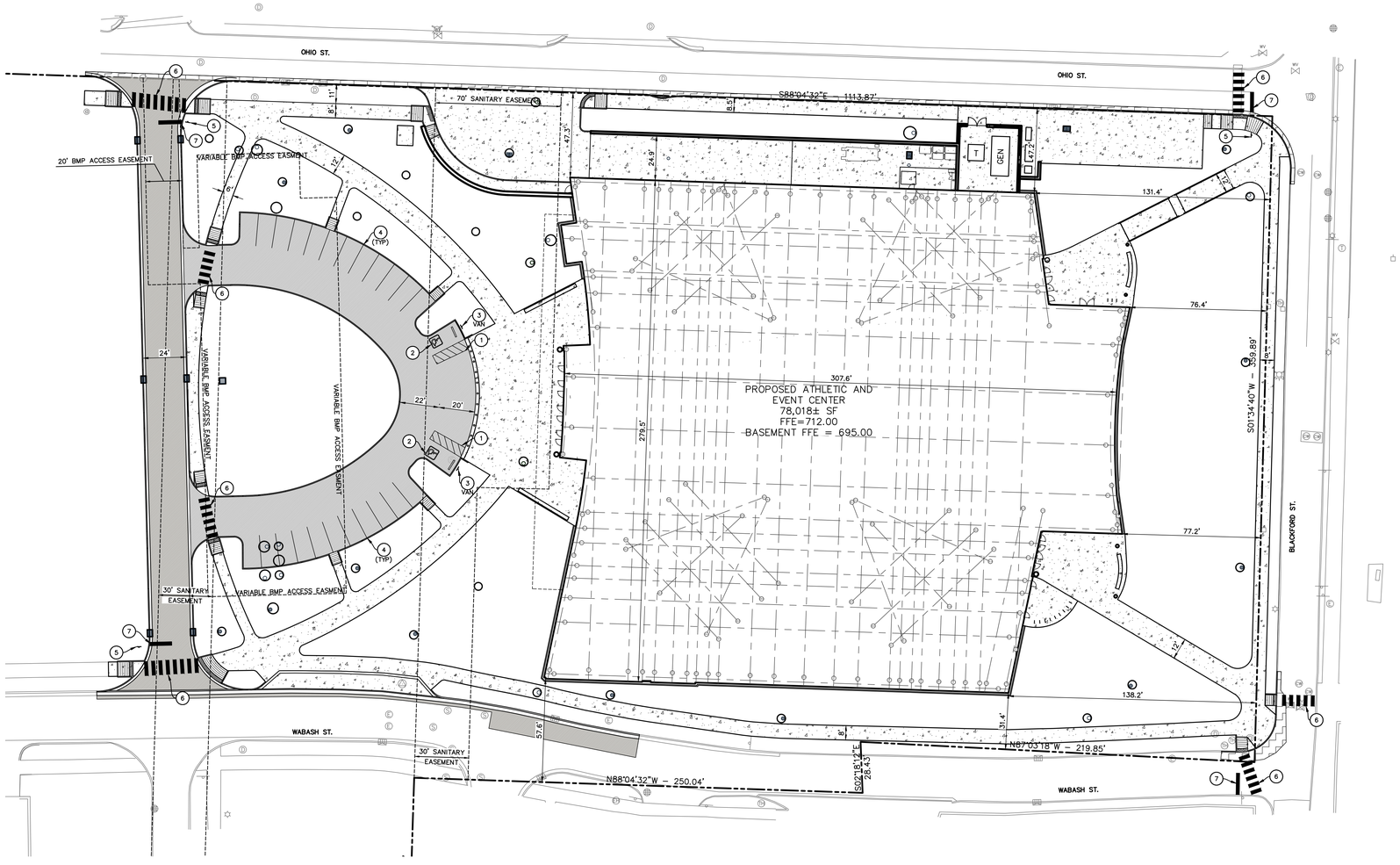

SCALE: 1"=30'

EXISTING LEGEND

Chilled Water MH	Sign
Clean Out	Sprinkler Control Valve
Curb Inlet	Telephone Handhole
Drainage Inlet	Telephone Marker
Drainage MH	Telephone MH
Electric Handhole	Transformer
Electric MH	Tree
Fire Hydrant	Water Valve
Guard Post	Buried Chilled Water Line
Light Pole	Buried Electric Line
Monitoring Well	Buried Water Line
Power Pole	Overhead Electric Line
Sanitary MH	Fiber Optic Line

SITE LEGEND

- ASPHALT PAVEMENT, MEDIUM DUTY (REFER TO LANDSCAPE PLAN FOR DETAILS)
- ASPHALT PAVEMENT, ROW (REFER TO LANDSCAPE PLAN FOR DETAILS)
- CONCRETE PAVEMENT (REFER TO LANDSCAPE PLAN FOR DETAILS)

SITE DATA TABLE

SITE ZONING:	UQ1
PROJECT AREA:	5.36± ACRES
BUILDING AREA:	77,943 SF
SITE IMPERVIOUS AREA:	3.35± ACRES
STANDARD PARKING (9'x20'):	34
ADA PARKING PROVIDED: (INCLUDES 2 VAN ACCESSIBLE)	2
TOTAL PROPOSED PARKING:	36
BICYCLE PARKING:	24

KEYNOTES

1. ADA PARKING SPACE (4" BLUE PAINT STRIPE)
2. ADA PARKING SYMBOL
3. ADA ACCESSIBLE PARKING SIGN
4. PARKING SPACE (4" WHITE PAINT STRIPE)
5. STOP SIGN
6. PEDESTRIAN CROSSWALK (WHITE, THERMOPLASTIC)
7. 24" STOP BAR (WHITE, THERMOPLASTIC)

GENERAL NOTE: REFER TO LANDSCAPE PLANS AND DETAILS FOR FURTHER SITE FEATURE INFORMATION.

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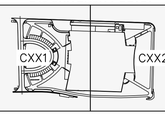

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ASI PROJECT NO. 23112.000

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

C200

PLOT DATE: 1/24/2025 4:57 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYLJA
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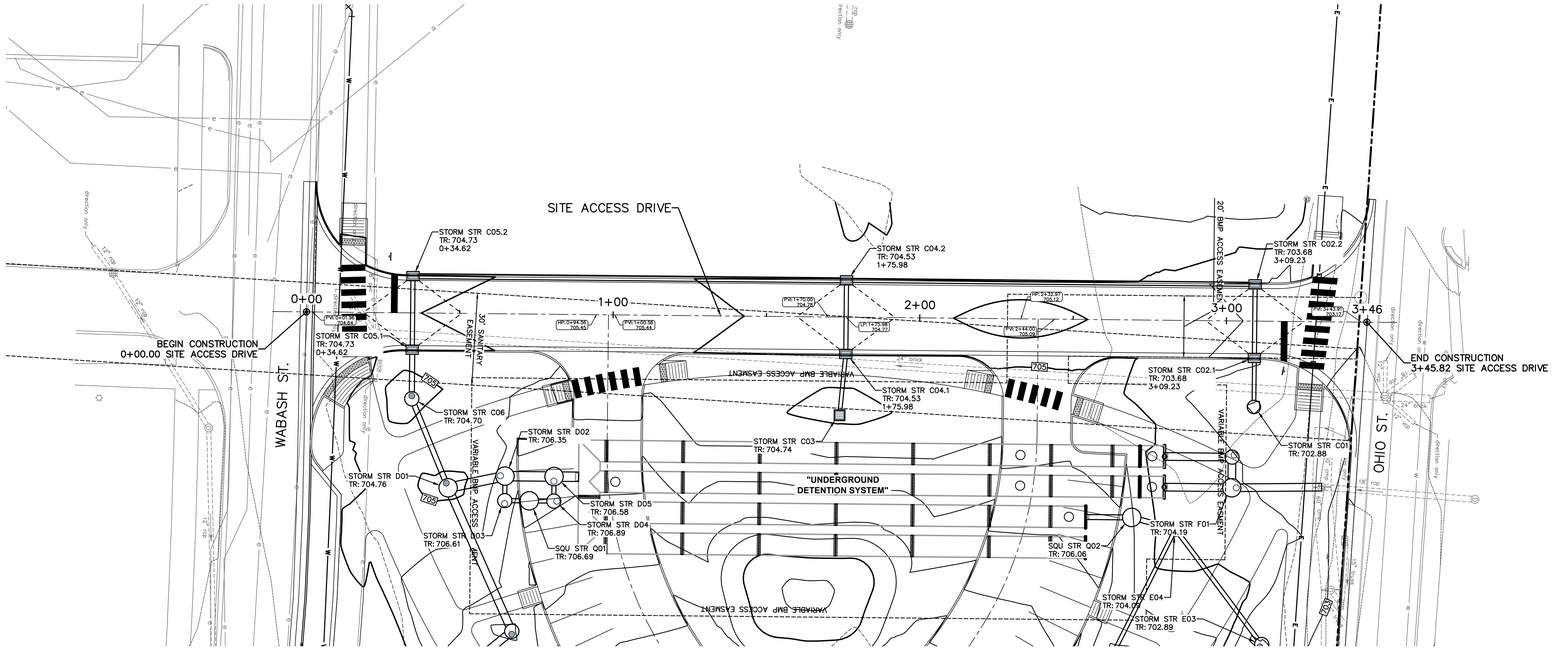
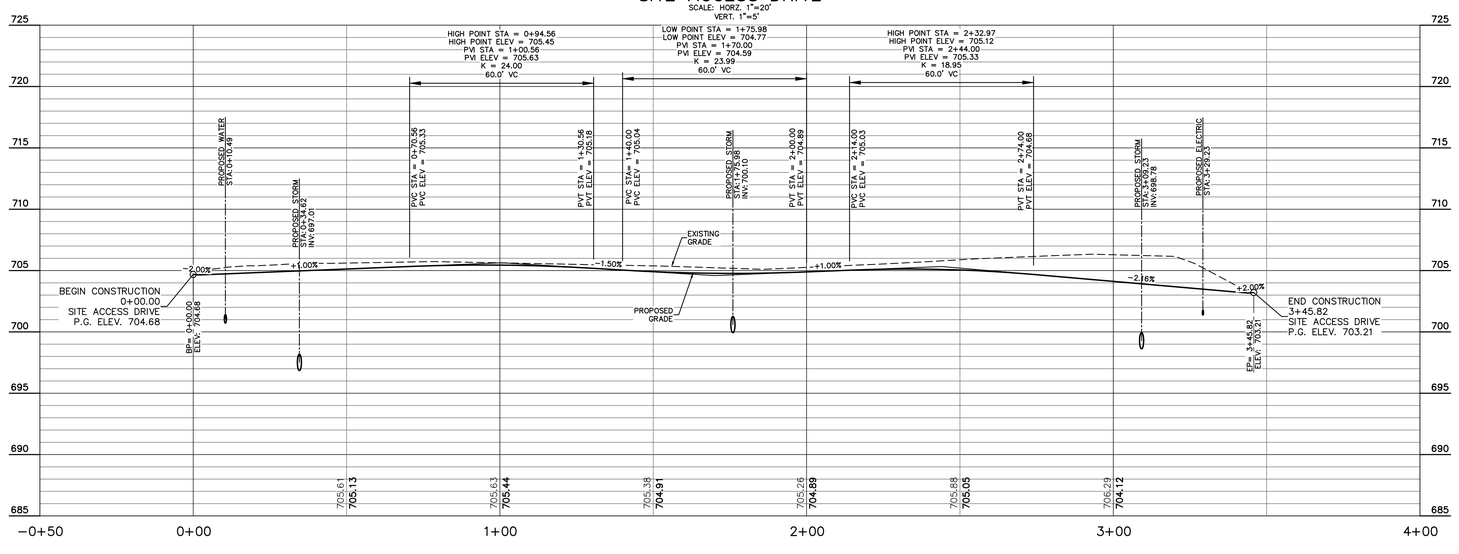
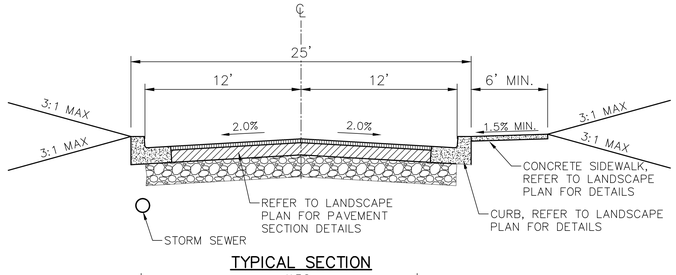


SITE ACCESS DRIVE
SCALE: HORZ. 1"=20'
VERT. 1"=5'





TYPICAL SECTION
N.T.S.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
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(REV. 10/21/24)

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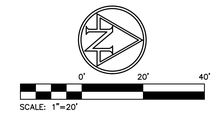

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BENCHMARK DATA

(NAVD 88 DATUM)

TBM #1
CHISELED "X" ON SOUTHWEST CORNER OF TRANSFORMER PAD, EAST SIDE OF BLACKFORD ST., AT SOUTHWEST CORNER OF MILITARY PARK.
ELEV: 708.27

TBM #2
CHISELED "X" ON SOUTH–SOUTH EAST BOLT OF FIRE HYDRANT, NORTH SIDE OF WABASH ST., ACROSS STREET FROM ELECTRIC SUBSTATION.
ELEV: 707.19'

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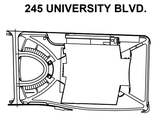

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ASI PROJECT NO. 23112.000

SHEET TITLE

ROAD PLAN AND PROFILE

SHEET NUMBER

C210

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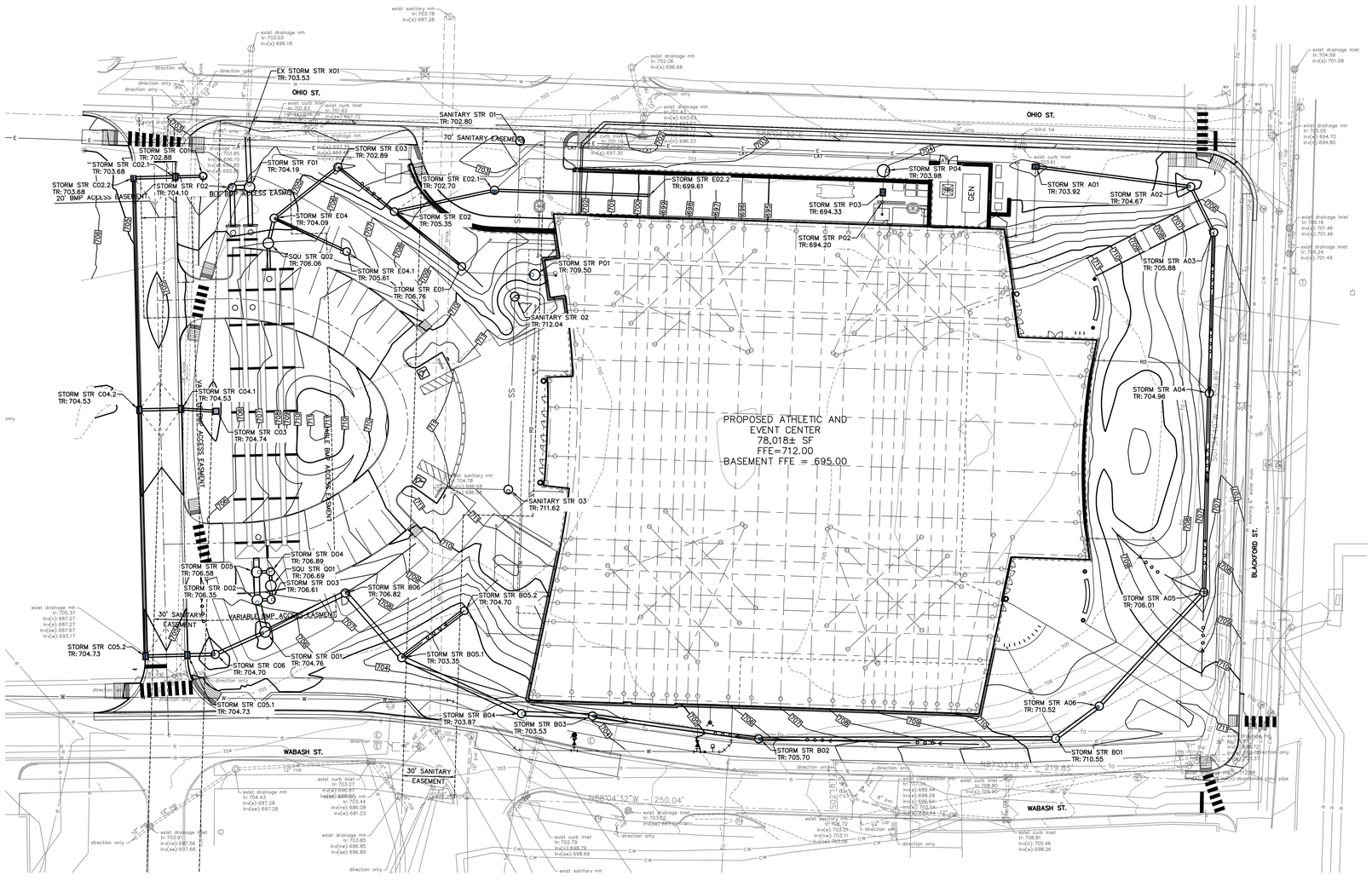

EXISTING LEGEND

Chilled Water MH		Sign	
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Curb Inlet		Telephone Handhole	
Drainage Inlet		Telephone Marker	
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Guard Post	-cw-	Buried Chilled Water Line	
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BENCHMARK DATA

(NAVD 88 DATUM)

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ELEV: 708.27'

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CHISELED "X" ON SOUTH-SOUTH EAST BOLT OF FIRE HYDRANT, NORTH SIDE OF WABASH ST., ACROSS STREET FROM ELECTRIC SUBSTATION.
ELEV: 707.19'

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
000	CONTOURS
	SWALE
TC 000.50 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
	FLOW ARROW
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
	STRUCTURES
	RIDGE LINE

GRADING WALL DETAIL
NOT TO SCALE

TW: TOP OF WALL
FGU: FINISH GRADE AT UPPER SIDE OF WALL
FGL: FINISH GRADE AT LOWER SIDE OF WALL

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– INDIANA UNDERGROUND –

FOR REFERENCE ONLY NOT FOR CONSTRUCTION

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
INDIANA UNIVERSITY BOARD OF TRUSTEES
2901 EAST DISCOVERY PARKWAY
BLOOMINGTON, IN 47408
812-855-1692

Architect
RATIO
101 SOUTH PENNSYLVANIA STREET
INDIANAPOLIS, IN 46204
317-633-4040

Structural Engineer
FINK ROBERTS AND PETRIE, INC.
3535 EAST 96TH STREET
SUITE 126
INDIANAPOLIS, IN 46240
317-872-8400

Mechanical / Electrical Engineer
INTROBA
8250 HAVERSTICK ROAD
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+1 800-404-7677

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138 N. DELAWARE ST
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972-934-3700

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9025 RIVER ROAD
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FORT LAUDERDALE, FL 33309
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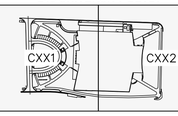
Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

245 UNIVERSITY BLVD.



KEY PLAN

SEAL | DATE

APPROVAL PENDING
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IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

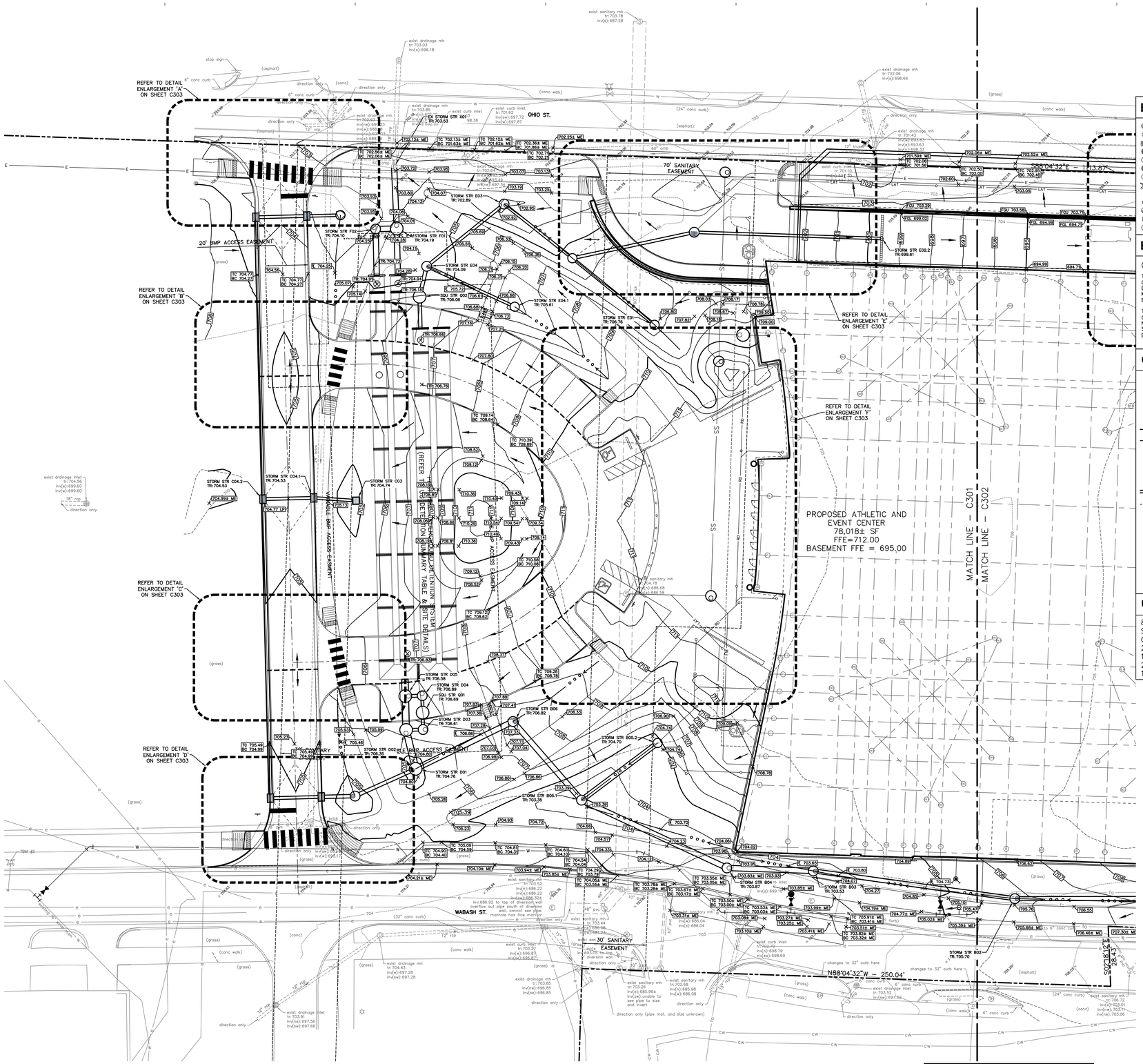
SHEET TITLE

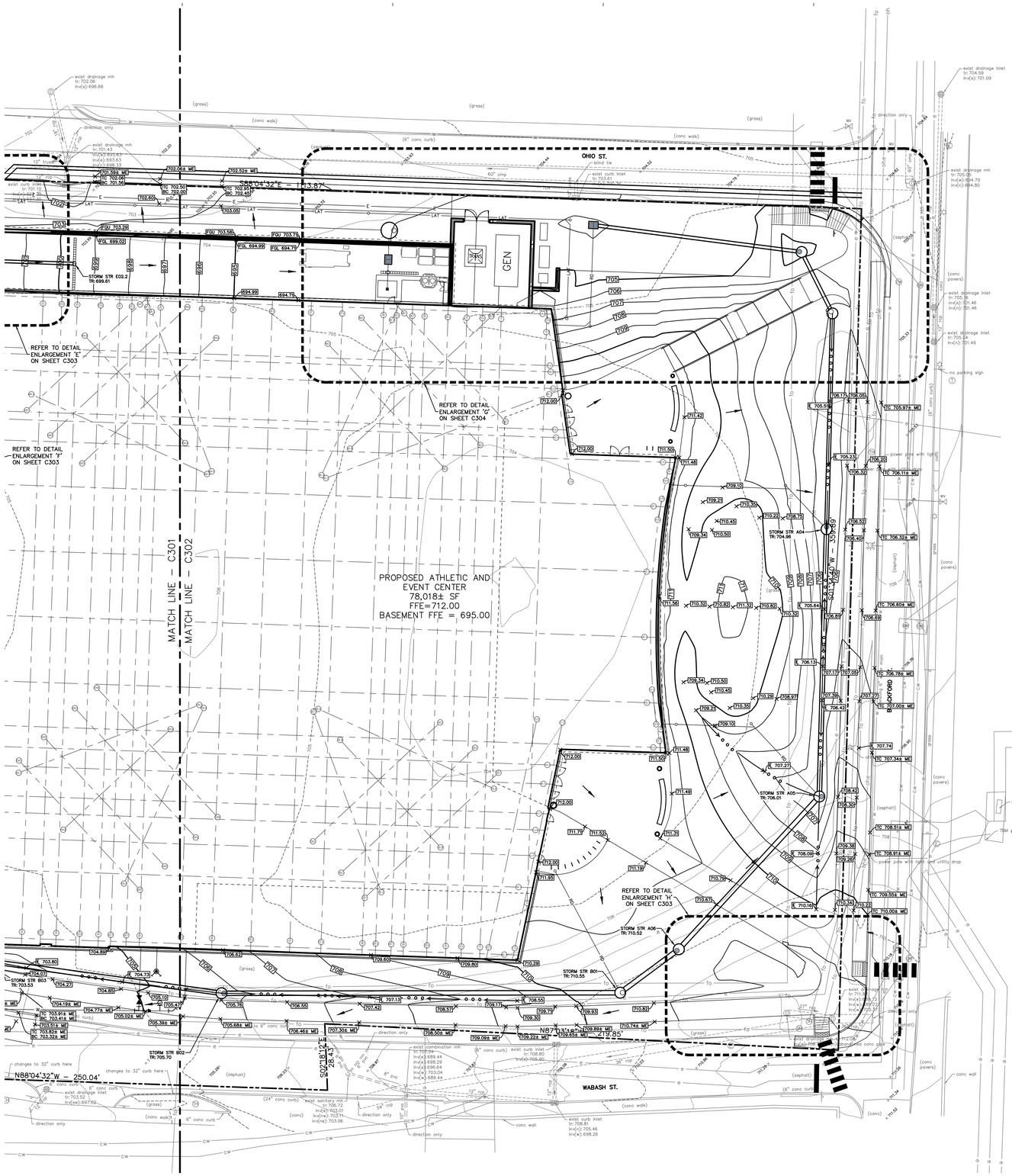
OVERALL GRADING PLAN

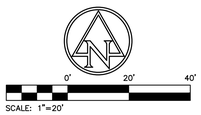
SHEET NUMBER

C300

PLOT DATE: 1/24/2025 4:58 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYLVIA
DRAWING FILE: P:\2023\0087\D. Drawings\Civil\Construction Documents\2023.0087.CE.C300.OGP.dwg


REFER TO DETAIL ENLARGEMENT 'A' ON SHEET C303
REFER TO DETAIL ENLARGEMENT 'B' ON SHEET C303
REFER TO DETAIL ENLARGEMENT 'C' ON SHEET C303
REFER TO DETAIL ENLARGEMENT 'D' ON SHEET C303
REFER TO DETAIL ENLARGEMENT 'E' ON SHEET C303
REFER TO DETAIL ENLARGEMENT 'F' ON SHEET C303
OHIO ST.
WABASH ST.
20' BMP ACCESS EASEMENT
VARIABLE BMP ACCESS EASEMENT
70' SANITARY EASEMENT
30' SANITARY EASEMENT
(REFER TO DETENTION SYSTEM TABLE & SITE DETAILS)
PROPOSED ATHLETIC AND EVENT CENTER
78,018± SF
FFE=712.00
BASEMENT FFE = 695.00
MATCH LINE - C301
MATCH LINE - C302
N88°04'32"W - 250.04'
S88°04'32"E - 143.87'
S02°18'12"E - 25.13'
STORM STR D01 TR: 704.76
STORM STR D02 TR: 705.35
STORM STR D03 TR: 706.61
STORM STR D04 TR: 706.89
SQU STR Q01 TR: 706.69
STORM STR D05 TR: 706.58
STORM STR E01 TR: 706.76
STORM STR E02.1 TR: 699.61
STORM STR E02.2 TR: 699.61
STORM STR E03 TR: 702.89
STORM STR E04 TR: 704.09
STORM STR E04.1 TR: 705.61
SQU STR Q02 TR: 706.06
STORM STR F01 TR: 704.19
STORM STR F02 TR: 704.10
STORM STR B01 TR: 703.53
STORM STR B02 TR: 705.70
STORM STR B03 TR: 703.53
STORM STR B04 TR: 703.67
STORM STR B05.1 TR: 703.35
STORM STR B05.2 TR: 704.70
STORM STR B06 TR: 706.82
STORM STR C01 TR: 704.53
STORM STR C02 TR: 704.53
STORM STR C03 TR: 704.74
STORM STR C04 TR: 704.53
EX STORM STR X01 TR: 703.53
TBM #1
TBM #2
exist sanitary mh tr: 703.78 inv(s): 687.28
exist drainage mh tr: 703.03 inv(s): 696.18
exist drainage mh tr: 702.06 inv(s): 696.66
exist curb inlet tr: 701.62 inv(w): 697.72 inv(e): 697.87
exist drainage mh tr: 701.43 inv(s): 693.63 inv(e): 693.63
exist drainage mh tr: 703.85 inv(s): 696.85 inv(e): 696.85
exist drainage mh tr: 704.43 inv(s): 697.28 inv(w): 697.28
exist drainage inlet tr: 703.91 inv(ne): 697.56 inv(w): 697.66
exist drainage inlet tr: 704.56 inv(e): 699.60 inv(w): 699.60
exist curb inlet tr: 703.52 inv(s): 696.83 inv(w): 696.83
exist curb inlet tr: 702.29 inv(s): 698.79 inv(w): 698.69
exist sanitary mh tr: 703.44 inv(s): 686.08 inv(e): 686.08
exist sanitary mh tr: 703.52 inv(s): 686.22 inv(w): 686.22 inv(e): 686.32
exist sanitary mh tr: 703.85 inv(w): 686.85 inv(se): 686.85
exist sanitary mh tr: 703.85 inv(s): 696.85 inv(w): 696.85
exist sanitary mh tr: 702.68 inv(s): 685.98 inv(w): 686.08
exist sanitary mh tr: 703.03 inv(s): 685.964 inv(w): unable to see pipe to size and invert
exist sanitary mh tr: 706.72 inv(s): 703.01 inv(ne): 703.51 inv(nw): 703.06
exist drainage inlet tr: 703.52 inv(w): 697.04
exist drainage inlet tr: 703.50 inv(w): 697.00
inv: 686.92 to top of diversion wall, cannot see pipe
inv: 686.04
inv: 686.04
inv: 698.69
inv: 698.79
inv: 697.41
inv: 697.41
inv: 697.41





EXISTING LEGEND

Chilled Water MH	Sign
Clean Out	Sprinkler Control Valve
Curb Inlet	Telephone Handhole
Drainage Inlet	Telephone Marker
Drainage MH	Telephone MH
Electric Handhole	Transformer
Electric MH	Tree
Fire Hydrant	Water Valve
Guard Post	Buried Chilled Water Line
Light Pole	Buried Electric Line
Monitoring Well	Buried Water Line
Power Pole	Overhead Electric Line
Sanitary MH	Fiber Optic Line

BENCHMARK DATA

(NAVD 88 DATUM)

TBM #1
CHISELED "X" ON SOUTHWEST CORNER OF TRANSFORMER PAD, EAST SIDE OF BLACKFORD ST., AT SOUTHWEST CORNER OF MILITARY PARK.
ELEV: 708.27

TBM #2
CHISELED "X" ON SOUTH–SOUTH EAST BOLT OF FIRE HYDRANT, NORTH SIDE OF WABASH ST., ACROSS STREET FROM ELECTRIC SUBSTATION.
ELEV: 707.19'

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
000	CONTOURS
	SWALE
TC 000.50 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
	FLOW ARROW
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
	STRUCTURES
	RIDGE LINE

GRADING WALL DETAIL
NOT TO SCALE

TW: TOP OF WALL
FGU: FINISH GRADE AT UPPER SIDE OF WALL
FGL: FINISH GRADE AT LOWER SIDE OF WALL

UG DETENTION STAGE SUMMARY

84" DIAMETER PERFORATED CMP	
STONE INV.:	690.00
OUTLET INV.:	693.50
2–YR STAGE:	693.38
10–YR STAGE:	695.17
25–YR STAGE:	696.23
100–YR STAGE:	698.14

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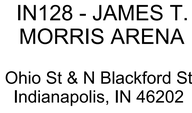

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ASI PROJECT NO. 23112.000

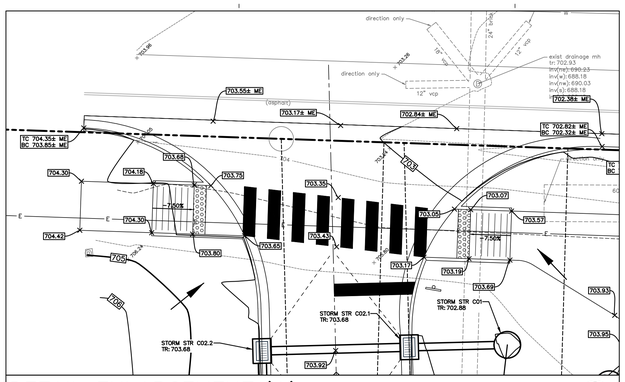
SHEET TITLE

GRADING PLAN

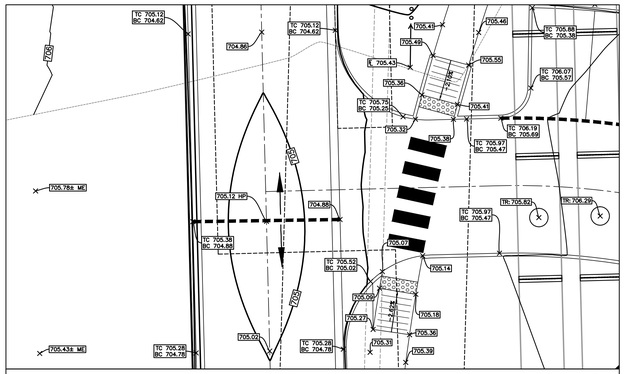
SHEET NUMBER

C302

PLOT DATE: 1/24/2025 4:58 PM
PLOT SCALE: 1"=1.008'
EDIT DATE: 1/20/2025
EDITED BY: DWELCH
DRAWING FILE: P:\2023\00817\D. Drawings\Civil\Construction Documents\2023.00817.CE.C301.GP.dwg



DETAIL ENLARGEMENT 'A'
SCALE 1"=10'


TC 705.12
BC 704.62
705.78± ME
705.43± ME
TC 705.38
BC 704.88
TC 706.07
BC 705.57
TC 706.19
BC 705.69
TC 705.97
BC 705.47
TC 705.82
BC 705.32
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BC 704.83
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BC 705.13
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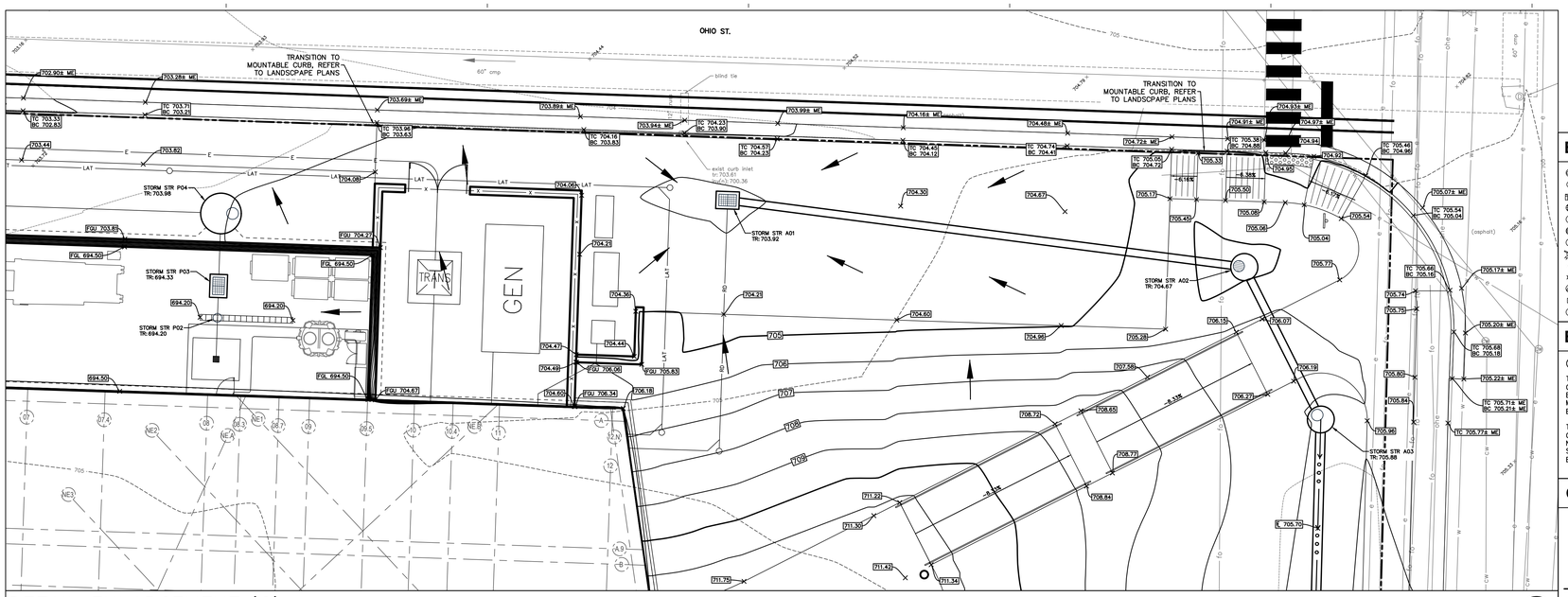

DETAIL ENLARGEMENT 'G'
SCALE 1"=10'

DETAIL ENLARGEMENT 'H'
SCALE 1"=10'

0' 10' 20'
SCALE: 1"=10'

EXISTING LEGEND

CW	Chilled Water MH	—s—	Sign
◎	Clean Out		Sprinkler Control Valve
CI	Curb Inlet	TH	Telephone Handhole
DI	Drainage Inlet		Telephone Marker
DMH	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant		Water Valve
	Guard Post	—cw—	Buried Chilled Water Line
	Light Pole	—e—	Buried Electric Line
MW	Monitoring Well	—w—	Buried Water Line
	Power Pole	—ohe—	Overhead Electric Line
S	Sanitary MH	—fo—	Fiber Optic Line

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ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
000	CONTOURS
	SWALE
TC 000.50 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
	FLOW ARROW
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
	STRUCTURES
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NOT TO SCALE

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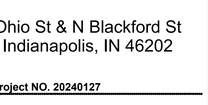

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ASI PROJECT NO. 23112.000

SHEET TITLE

GRADING PLAN ENLARGEMENTS

SHEET NUMBER

C304

PLOT DATE: 1/24/2025 4:56 PM
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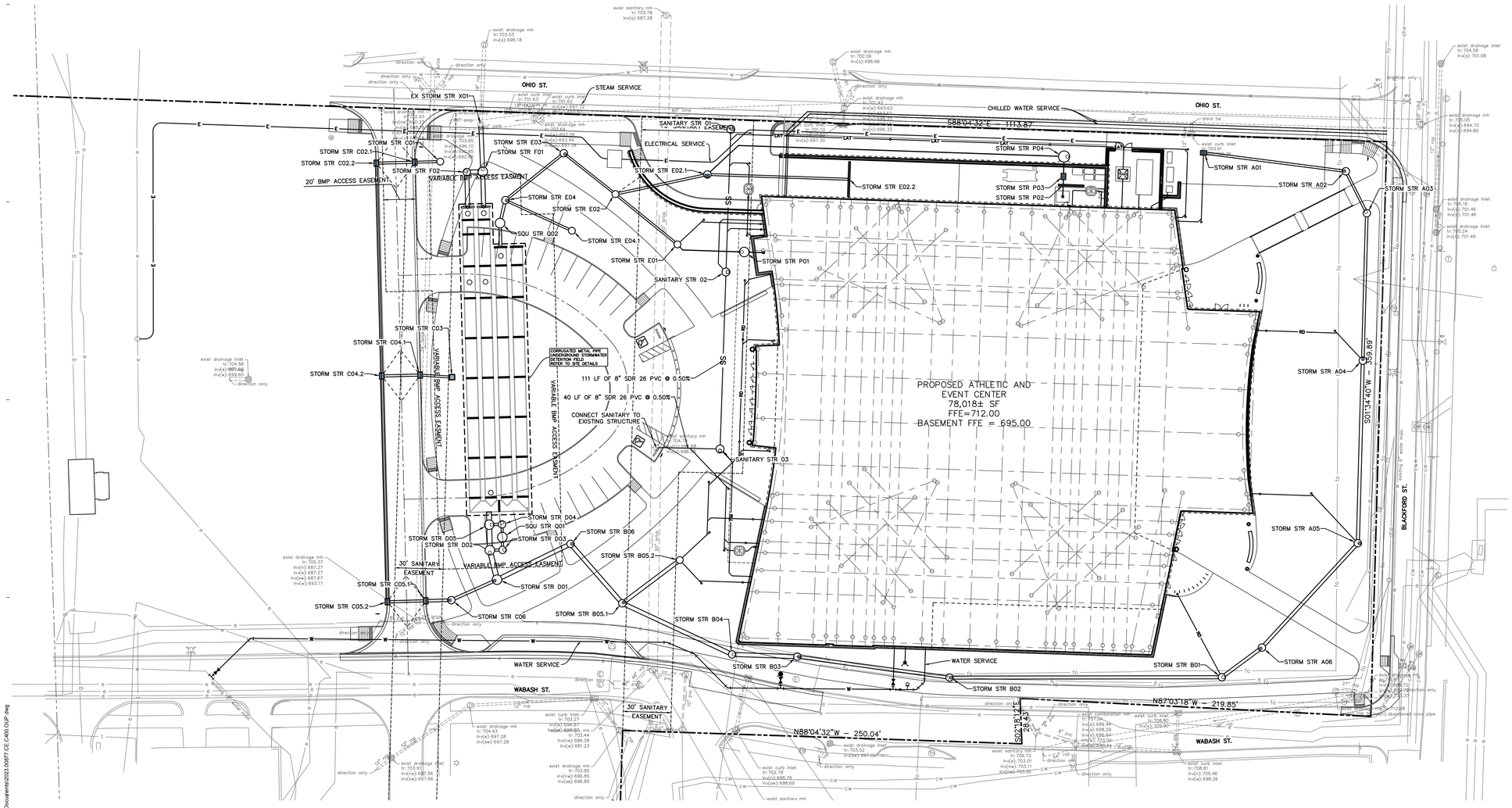
EDITED BY: DWELCH
DRAWING FILE: P:\2023\09877\D. Drawings\Civil\Construction Documents\2023.09877.CE.C301.GP.dwg



0' 30' 60'

SCALE: 1"=30'

EXISTING LEGEND

Chilled Water MH	Sign
Clean Out	Sprinkler Control Valve
Curb Inlet	Telephone Handhole
Drainage Inlet	Telephone Marker
Drainage MH	Telephone MH
Electric Handhole	Transformer
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Fire Hydrant	Water Valve
Guard Post	Buried Chilled Water Line
Light Pole	Buried Electric Line
Monitoring Well	Buried Water Line
Power Pole	Overhead Electric Line
Sanitary MH	Fiber Optic Line

UTILITY LEGEND

ETC	ELECTRIC / TELECOMMUNICATIONS LINE
W	WATER LINE
FP	FIRE PROTECTION LINE
RD	ROOF DRAIN LINE
G	GAS LINE
SS	SANITARY SEWER MAIN
LAT	SANITARY LATERAL
FM	SANITARY FORCE MAIN
STORM	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
GM	GAS METER
	ELECTRICAL TRANSFORMER
	VALVE
	WATER FITTINGS
WM	WATER METER PIT
	FIRE HYDRANT W/ ASSEMBLY

UG DETENTION STAGE SUMMARY

84" DIAMETER PERFORATED CMP

STONE INV.:	690.00
OUTLET INV.:	693.50
2–YR STAGE:	693.38
10–YR STAGE:	695.17
25–YR STAGE:	696.23
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UTILITY CONTACTS

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(REV. 10/21/24)

GENERAL NOTES:

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IU Project NO. 20240127

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Architect
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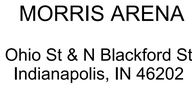

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

OVERALL UTILITY PLAN

SHEET NUMBER

C400

PLOT DATE: 1/24/2025 4:58 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/8/2025
EDITED BY: TSYUPA
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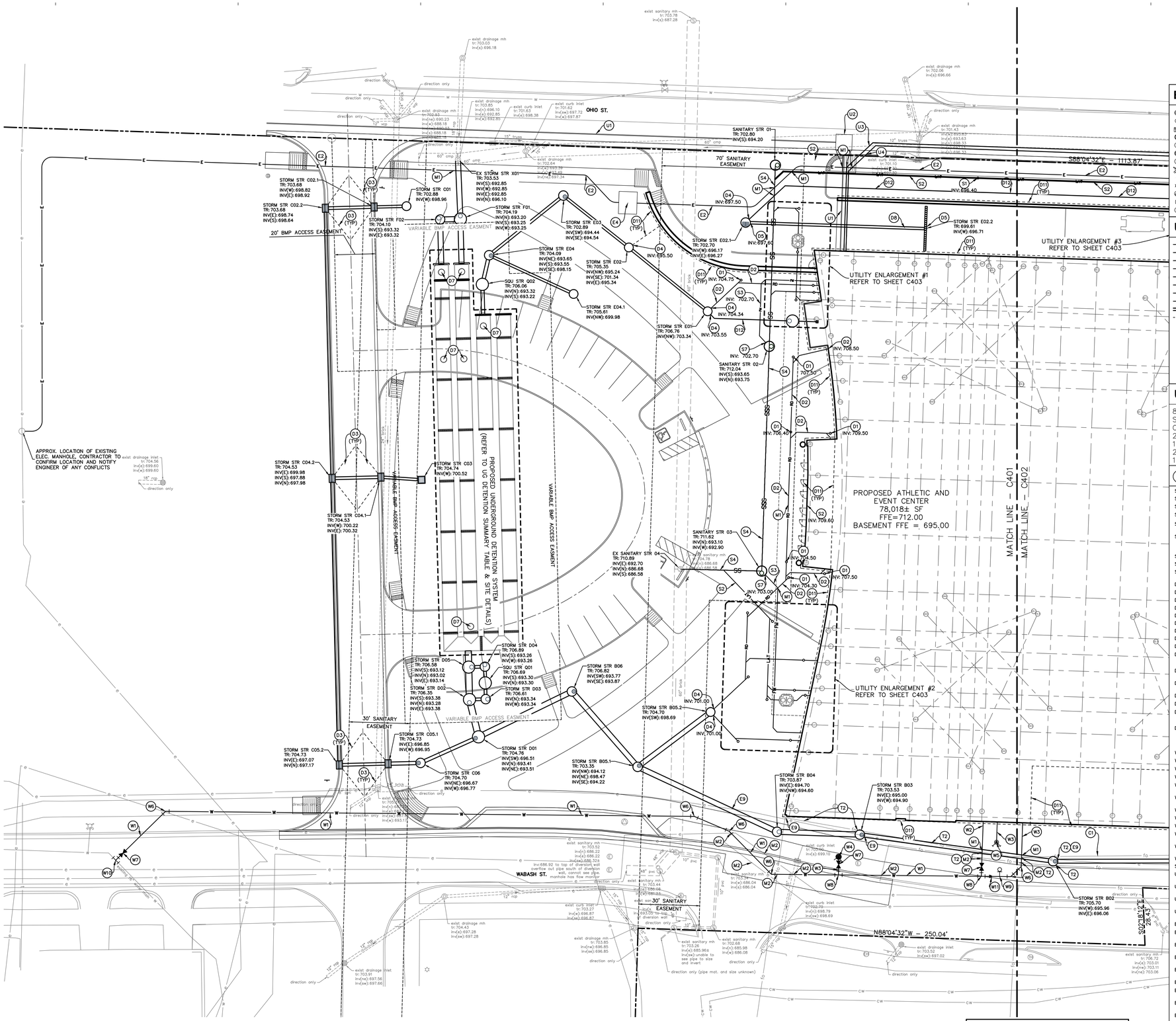

SCALE: 1"=20'

EXISTING LEGEND

Chilled Water MH		Sign	
Clean Out		Sprinkler Control Valve	
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Drainage Inlet		Telephone Marker	
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S1. SANITARY CLEANOUT

S2. 6" SDR 35 PVC SAN. LATERAL @ 1.04% MIN.SLOPE

S3. 4" DR 11 HDPE SANITARY FORCE MAIN

S4. 8" SANITARY MAIN (REFER TO SANITARY SEWER PLAN & PROFILE ON SHEET C420)

S5. GREASE INTERCEPTOR (INVERTS SHOWN FOR REFERENCE ONLY, REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION INCLUDING DESIGN INVERTS. NOTIFY ENGINEER IF CONFLICT EXISTS)

S6. CONNECT SANITARY LATERAL TO STRUCTURE

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D6. CONCRETE TRENCH DRAIN B

D7. UNDERGROUND DETENTION ACCESS RISER

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D10. 12" NYLOPLAST INLINE DRAIN @ RECESSED DOCK LIFT PIT (REFER TO STRUCTURAL PLANS)

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D12. 6" PVC SDR 21 PIPE

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WATERLINE

W1. 8" C900 PVC DR 18 WATER LINE

W2. 6" C900 PVC DR 18 DOMESTIC WATER SERVICE LINE

W3. 6" C900 PVC DR 18 FIRE PROTECTION SERVICE LINE

W4. FIRE HYDRANT W/ ASSEMBLY (PER LOCAL UTILITY AND FIRE DEPARTMENT STANDARDS)

W5. FIRE DEPARTMENT CONNECTION (PER LOCAL UTILITY AND FIRE DEPARTMENT STANDARDS)

W6. WATER BEND W/ CONCRETE THRUST BLOCK

W7. WATER VALVE

W8. TEE FITTING W/ CONCRETE THRUST BLOCK

W9. POST INDICATOR VALVE (PER LOCAL UTILITY AND FIRE DEPARTMENT STANDARDS)

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T2. CONTRACTOR SHALL COORDINATE RELOCATIONS OF EXISTING CABLE TELEVISION FACILITIES IN CONFLICT WITH PROPOSED SITE FEATURES & UTILITIES WITH OWNER & SEQUENCE WORK ACCORDINGLY

MISCELLANEOUS

M1. ALL WATER, SANITARY, AND STORM CROSSINGS SHALL HAVE A MINIMUM OF 18" VERTICAL CLEARANCE. CONTRACTOR SHALL ENSURE ALL NECESSARY SEPARATIONS ARE PROVIDED AND RELOCATE EXISTING UTILITIES AS NECESSARY TO ENSURE SEPARATIONS ARE PROVIDED. REFER TO SITE DETAILS FOR PROPOSED UTILITY CROSSING DETAILS. CONTACT ENGINEER IF CONFLICT EXISTS.

M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY IF CONFLICT EXISTS.

M3. CONTRACTOR SHALL COORDINATE SERVICE CONNECTION LOCATION WITH UTILITY PROVIDER.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855-7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610-5469
GAS	CITIZENS GAS	RICH MILLER	(317) 927-4684
SANITARY SEWER	CITIZENS ENERGY GROUP	BRAD HOSTETLER JR	(317) 927-4351
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(REV. 10/21/24)

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Architect
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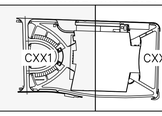

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ASI PROJECT NO. 23112.000

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C401

PLOT DATE: 1/24/2025 4:59 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
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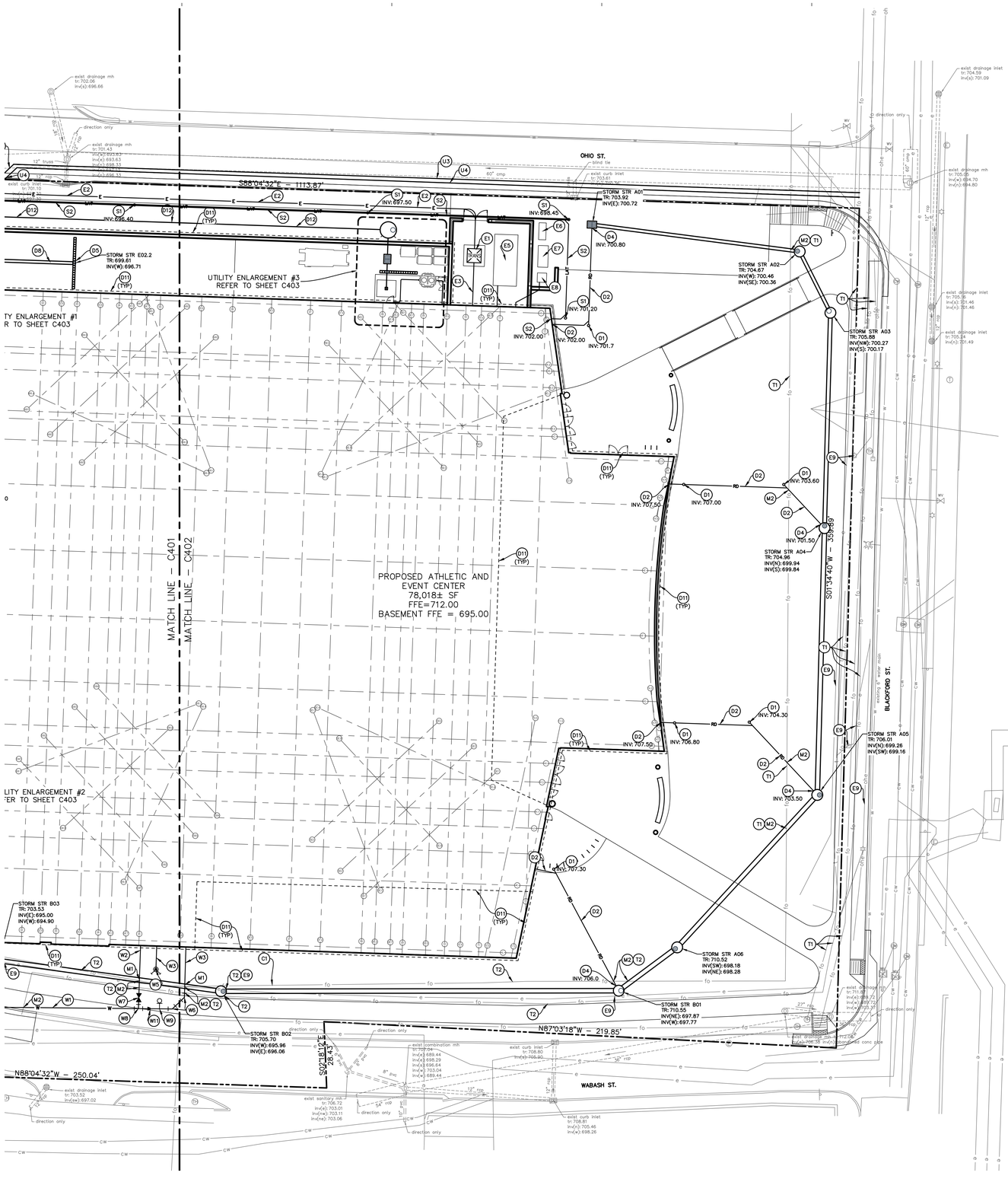

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M1. ALL WATER, SANITARY, AND STORM CROSSINGS SHALL HAVE A MINIMUM OF 18" VERTICAL CLEARANCE. CONTRACTOR SHALL ENSURE ALL NECESSARY SEPARATIONS ARE PROVIDED AND INCLUDE EXISTING AND PROPOSED UTILITIES ON THIS PLAN. PROPOSED UTILITIES OR WORK ITEMS THAT ARE NOT SEPARATED APPROPRIATELY, CONTACT ENGINEER IF CONFLICT EXISTS.

M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH, AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY IF CONFLICT EXISTS.

M3. CONTRACTOR SHALL COORDINATE SERVICE CONNECTION LOCATION WITH UTILITY PROVIDER.

GENERAL NOTES:

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CALL TOLL FREE
"811" OR 1-800-382-5544
– INDIANA UNDERGROUND –

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855-7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610-5469
GAS	CITIZENS GAS	RICH MILLER	(317) 927-4684
SANITARY SEWER	CITIZENS ENERGY GROUP	BRAD HOSTETLER JR	(317) 927-4351
STORM SEWER	CITY OF INDIANAPOLIS	JEFF MEID	(317) 327-8583
TELEPHONE	AT&T	CHRIS CARSON	(317) 610-5469
WATER	CITIZENS ENERGY GROUP	RICHARD NEWELL	(317) 927-4377
STEAM & CHILLED WATER	CITIZENS ENERGY GROUP	PHILIP SEARCY	(317) 308-9910
TELEPHONE (5G)	T-MOBILE	MELISSA MORENO	(317) 997-8553

(REV. 10/21/24)

FOR REFERENCE ONLY NOT FOR CONSTRUCTION

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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WJHW
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LAKEWOOD, CO 80235
972-934-3700

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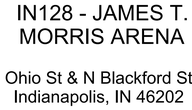

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

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ASI PROJECT NO. 23112.000

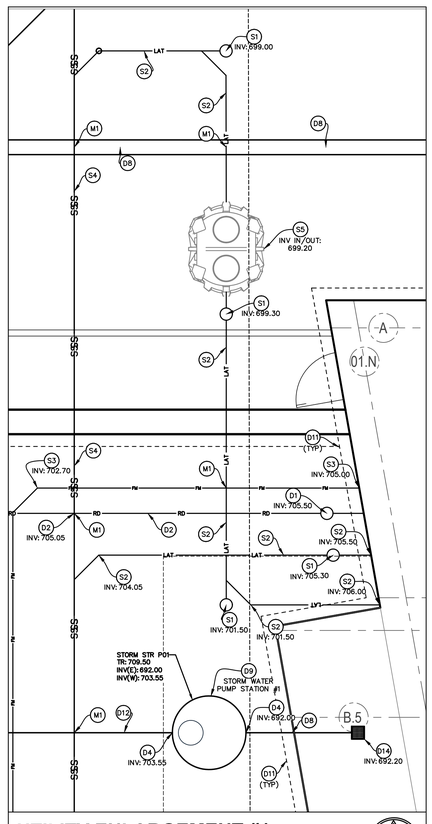
SHEET TITLE

UTILITY PLAN

SHEET NUMBER

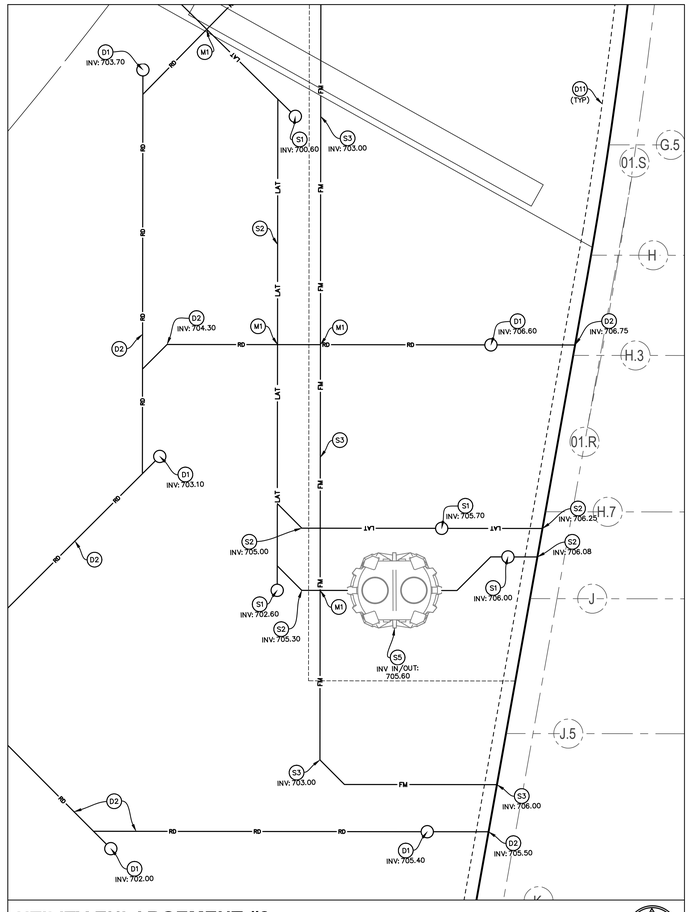
C402

PLOT DATE: 1/24/2025 4:59 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
DRAWING FILE: P:\2023\08770\ Drawings\Civil Construction Documents\2023.08877.CE.C401.UP.dwg



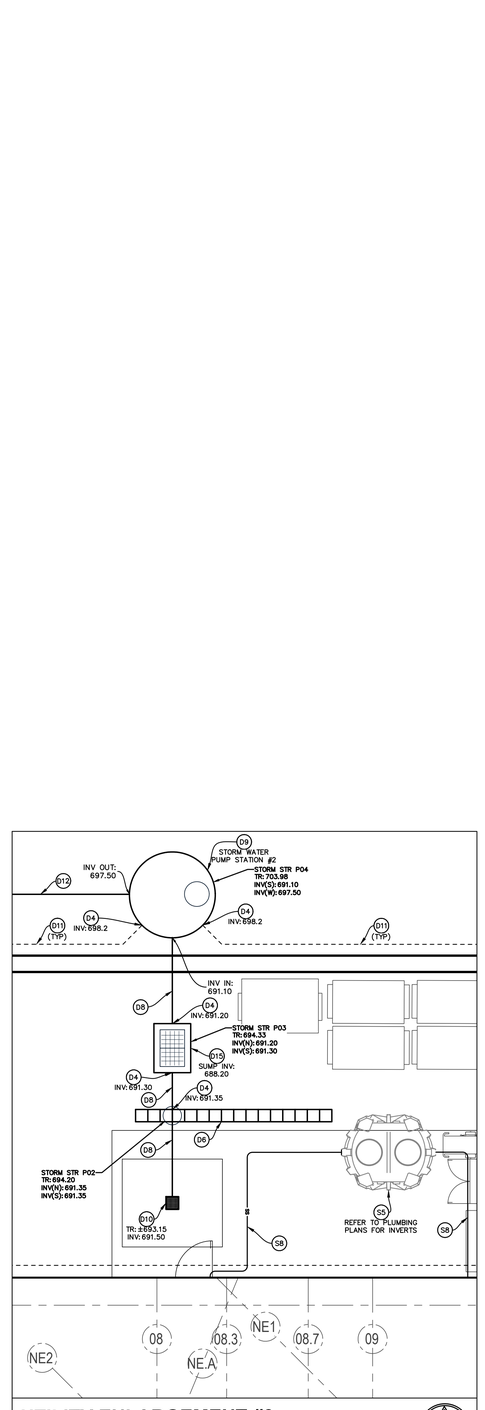
UTILITY ENLARGEMENT #1

SCALE: 1" = 5'



UTILITY ENLARGEMENT #2

SCALE: 1" = 5'



UTILITY ENLARGEMENT #3

SCALE: 1" = 5'

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855–7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610–5469
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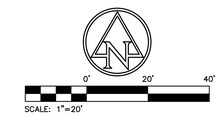

SCALE: 1"=20'

EXISTING LEGEND

CW	Chilled Water MH	—sn—	Sign
◎	Clean Out		Sprinkler Control Valve
	Curb Inlet	TH	Telephone Handhole
	Drainage Inlet	—t—	Telephone Marker
D	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant		Water Valve
	Guard Post	—cw—	Buried Chilled Water Line
	Light Pole	—e—	Buried Electric Line
MW	Monitoring Well	—w—	Buried Water Line
	Power Pole	—ohe—	Overhead Electric Line
S	Sanitary MH	—fo—	Fiber Optic Line

UTILITY LEGEND

ETC	ELECTRIC / TELECOMMUNICATIONS LINE
W	WATER LINE
FP	FIRE PROTECTION LINE
RD	ROOF DRAIN LINE
G	GAS LINE
SS	SANITARY SEWER MAIN
LAT	SANITARY LATERAL
FM	SANITARY FORCE MAIN
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
GM	GAS METER
	ELECTRICAL TRANSFORMER
	VALVE
	WATER FITTINGS
WM	WATER METER PIT
	FIRE HYDRANT W/ ASSEMBLY

KEYNOTES

SANITARY SEWER

S1. SANITARY CLEANOUT

S2. 6" SDR 35 PVC SAN. LATERAL @ 1.04% MIN.SLOPE

S3. 4" DR 11 HDPE SANITARY FORCE MAIN

S4. 8" SANITARY MAIN (REFER TO SANITARY SEWER PLAN & PROFILE ON SHEET C420)

S5. GREASE INTERCEPTOR (INVERTS SHOWN FOR REFERENCE ONLY. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION INCLUDING FINISH INVERTS. NOTIFY ENGINEER IF CONFLICT EXISTS)

S6. CONNECT SANITARY LATERAL TO STRUCTURE

S7. CONNECT SANITARY FORCE MAIN TO STRUCTURE

S8. 4" BUILDING INTERNAL SANITARY PIPE (REFER TO PLUMBING DRAWINGS FOR DETAILS)

DRAINAGE/STORM SEWER

D1. ROOF DRAIN CLEANOUT

D2. 12" HDPE ROOF DRAIN @ 2.00% MIN. SLOPE

D3. PAVEMENT UNDER DRAIN

D4. CONNECT DRAIN TO STRUCTURE

D5. CONCRETE TRENCH DRAIN A

D6. CONCRETE TRENCH DRAIN B

D7. UNDERGROUND DETENTION ACCESS RISER

D8. 12" HDPE STORM DRAIN @ 1.00% MIN. SLOPE

D9. STORM WATER PUMP STATION (ONSITE RATED, SEE STORM WATER PUMP STATION DESIGN BASIS TABLE ON SHEET C404 FOR ADDITIONAL INFORMATION)

D10. 12" NYLOPLAST INLINE DRAIN @ RECESSED DOCK LIFT PIT (REFER TO STRUCTURAL PLANS)

D11. 4" PERFORATED PVC FOUNDATION DRAIN (REFER TO STRUCTURAL PLANS)

D12. 6" PVC SDR 21 PIPE

D13. 3" PVC SDR 21 PIPE

D14. 12" NYLOPLAST INLINE DRAIN @ RECESSED AREAWAY (REFER TO STRUCTURAL PLANS)

D15. STORM WATER PUMP STATION DEBRIS FILTERING STRUCTURE. BMP, INC. 18F SNOUT OIL & DEBRIS STOP DEVICE TO BE INSTALLED AT OUTLET ORIFICE. STRUCTURE SUMP TO BE MIN. 36" BELOW OUTLET INVERT ELEVATION.

WATERLINE

W1. 8" C900 PVC DR 18 WATER LINE

W2. 6" C900 PVC DR 18 DOMESTIC WATER SERVICE LINE

W3. 6" C900 PVC DR 18 FIRE PROTECTION SERVICE LINE

W4. FIRE HYDRANT W/ ASSEMBLY (PER LOCAL UTILITY AND FIRE DEPARTMENT STANDARDS)

W5. FIRE DEPARTMENT CONNECTION (PER LOCAL UTILITY AND FIRE DEPARTMENT STANDARDS)

W6. WATER BEND W/ CONCRETE THRUST BLOCK

W7. WATER VALVE

W8. TEE FITTING W/ CONCRETE THRUST BLOCK

W9. POST INDICATOR VALVE (PER LOCAL UTILITY AND FIRE DEPARTMENT STANDARDS)

W10. TAPPING SLEEVE (PER CITIZENS ENERGY GROUP STANDARDS)

W11. WATER REDUCER FITTING

STEAM & CHILLED WATER

U1. STEAM SERVICE LINE (REFER TO CITIZENS ENERGY GROUP PLANS)

U2. STEAM MANHOLE (REFER TO CITITZENS ENERGY GROUP PLANS)

U3. CHILLED WATER SERVICE SUPPLY LINE (REFER TO CITIZENS ENERGY GROUP PLANS)

U4. CHILLED WATER SERVICE RETURN LINE (REFER TO CITIZENS ENERGY GROUP PLANS)

ELECTRIC \ TELECOMMUNICATIONS

E1. ELECT. TRANSFORMER (REFER TO ELECTRICAL PLANS FOR DETAILS)

E2. ELECTRIC PRIMARY SERVICE LINE (REFER TO ELECTRICAL PLANS FOR DETAILS)

E3. ELECTRIC SECONDARY SERVICE LINE (REFER TO ELECTRICAL PLANS FOR DETAILS)

E4. PAD MOUNTED MEDIUM VOLTAGE SWITCH GEAR (REFER TO ELECTRICAL PLANS FOR DETAILS)

E5. GENERATOR (REFER TO ELECTRICAL PLANS FOR DETAILS)

E6. LOW VOLTAGE CABINET (REFER TO ELECTRICAL PLANS FOR DETAILS)

E7. BROADCAST TRUCK SWITCHBOARD, TVRP (REFER TO ELECTRICAL PLANS FOR DETAILS)

E8. TEMP GENERATOR CONNECTION CABINET (REFER TO ELECTRICAL PLANS FOR DETAILS)

E9. CONTRACTOR SHALL COORDINATE RELOCATIONS OF EXISTING ELECTRICAL FACILITIES IN CONFLICT WITH PROPOSED SITE FEATURES & UTILITIES WITH UTILITY PROVIDER & SEQUENCE WORK ACCORDINGLY.

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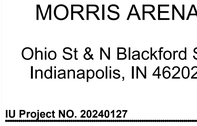

N

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A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

UTILITY ENLARGEMENTS

SHEET NUMBER

C403

PLOT DATE: 1/24/2025 4:59 PM
PLOT SCALE: 1:1.000
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
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SANITARY STRUCTURE DATA TABLE									
STR. NO.	STRUCTURE	CASTING TYPE	TOP OF RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
01	48" SANITARY MH	SEE DETAIL	702.80		8" PVC SDR 26 694.20 (S) [02]	89'	8"	0.50%	02	
02	48" SANITARY MH	SEE DETAIL	712.04	8" PVC SDR 26 693.75 (N) [01]	8" PVC SDR 26 693.65 (S) [03]	111'	8"	0.50%	03	
03	48" SANITARY MH	SEE DETAIL	711.62	8" PVC SDR 26 693.10 (N) [02]	8" PVC SDR 26 692.90 (W) [04]	40'	8"	0.50%	04	
04	EXISTING SANITARY MH	–	710.89	8" PVC SDR 26 692.70 (E) [03], 60" EXISTING BRICK 686.68 (N) []	60" EXISTING BRICK 686.58 (S) []	70'	60"	0.00%		

STORM STRUCTURE DATA TABLE NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE–DRAINS TO WATERWAY"										
STR. NO.	STRUCTURE TYPE	CASTING TYPE	TOP OF RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
A01	TYPE "M" INLET	R–3455–C	703.92		12" RCP 700.72 (E) [A02]	90'	12"	0.30%	A02	ROOF DRAIN CONNECTION
A02	TYPE "C" MH	R–4342	704.67	12" RCP 700.46 (W) [A01]	12" RCP 700.36 (SE) [A03]	29'	12"	0.30%	A03	
A03	TYPE "C" MH	R–1772	705.88	12" RCP 700.27 (NW) [A02]	15" RCP 700.17 (S) [A04]	92'	15"	0.25%	A04	
A04	TYPE "C" MH	R–4342	704.96	15" RCP 699.94 (N) [A03]	18" RCP 699.84 (S) [A05]	114'	18"	0.50%	A05	
A05	TYPE "C" MH	R–4342	706.01	18" RCP 699.26 (N) [A04]	18" RCP 699.16 (SW) [A06]	89'	18"	1.00%	A06	
A06	TYPE "C" MH	R–4342	710.52	18" RCP 698.28 (NE) [A05]	18" RCP 698.18 (SW) [B01]	31'	18"	1.00%	B01	
B01	TYPE "C" MH	R–1772	710.55	18" RCP 697.87 (NE) [A06]	18" RCP 697.77 (W) [B02]	170'	18"	1.00%	B02	ROOF DRAIN CONNECTION
B02	TYPE "C" MH	R–4342	705.70	18" RCP 696.06 (E) [B01]	18" RCP 695.96 (W) [B03]	96'	18"	1.00%	B03	
B03	TYPE "C" MH	R–4342	703.53	18" RCP 695.00 (E) [B02]	24" RCP 694.90 (W) [B04]	41'	24"	0.50%	B04	
B04	TYPE "C" MH	R–1772	703.87	24" RCP 694.70 (E) [B03]	24" RCP 694.60 (NW) [B05.1]	76'	24"	0.50%	B05.1	
B05.1	TYPE "C" MH	R–4342	703.35	24" HDPE 698.47 (NE) [B05.2] 24" RCP 694.22 (SE) [B04]	24" RCP 694.12 (NW) [B06]	49'	24"	0.50%	B06	
B05.2	NYLOPLAST	3099CGD	704.70		24" HDPE 698.69 (SW) [B05.1]	45'	24"	0.50%	B05.1	ROOF DRAIN CONNECTION
B06	TYPE "C" MH	R–4342	706.82	24" RCP 693.87 (SE) [B05.1]	24" RCP 693.77 (SW) [D01]	51'	24"	0.50%	D01	
C01	NYLOPLAST	3099CGD	702.88		12" HDPE 698.96 (W) [C02.1]	16'	12"	0.30%	C02.1	
C02.1	TYPE "M" INLET	R–3287–10V	703.68	12" HDPE 698.92 (E) [C01]	12" RCP 698.82 (W) [C02.2]	24'	12"	0.30%	C02.2	
C02.2	TYPE "J" INLET	R–3287–10V	703.68	12" RCP 698.74 (E) [C02.1]	12" RCP 698.64 (S) [C04.2]	133'	12"	0.50%	C04.2	
C03	TYPE "E" INLET	R–4215–C	704.74		12" HDPE 700.52 (W) [C04.1]	20'	12"	1.00%	C04.1	
C04.1	TYPE "M" INLET	R–3287–10V	704.53	12" HDPE 700.32 (E) [C03]	12" RCP 700.22 (W) [C04.2]	24'	12"	1.00%	C04.2	
C04.2	TYPE "J" INLET	R–3287–10V	704.53	12" RCP 699.98 (E) [C04.1] 12" RCP 697.98 (N) [C02.2]	15" RCP 697.88 (S) [C05.2]	141'	15"	0.50%	C05.2	
C05.1	TYPE "M" INLET	R–3287–10V	704.73	12" RCP 696.95 (W) [C05.2]	15" RCP 696.85 (E) [C06]	16'	15"	0.50%	C06	
C05.2	TYPE "J" INLET	R–3287–10V	704.73	15" RCP 697.17 (N) [C04.2]	12" RCP 697.07 (E) [C05.1]	24'	12"	0.50%	C05.1	
C06	TYPE "C" MH	R–4342	704.70	15" RCP 696.77 (W) [C05.1]	15" RCP 696.67 (NE) [D01]	31'	15"	0.50%	D01	
D01	TYPE "J" MH	R–4342	704.76	15" RCP 696.51 (SW) [C06] 24" RCP 693.51 (NE) [B06]	30" RCP 693.41 (N) [D02]	19'	30"	0.20%	D02	
D02	TYPE "J" MH	R–1772	706.35	30" RCP 693.38 (S) [D01]	30" RCP 693.28 (N) [D05] 12" RCP 693.38 (E) [D03]	16' 8'	30" 12"	1.00% 0.50%	D05 D03	WATER QUALITY DIVERSION STRUCTURE
D03	TYPE "C" MH	R–1772	706.61	12" RCP 693.34 (W) [D02]	12" RCP 693.34 (N) [Q01]	8'	12"	0.50%	Q01	
D04	TYPE "C" MH	R–1772	706.89	12" RCP 693.26 (S) [Q01]	12" RCP 693.26 (W) [D05]	8'	12"	1.45%	D05	
D05	TYPE "J" MH	R–1772	706.58	30" RCP 693.12 (S) [D02] 12" RCP 693.14 (E) [D04]	30" RCP 693.02 (N) [Z01]	8'	30"	0.20%	Z01	
E01	NYLOPLAST	3099CGD	706.76		12" HDPE 703.34 (NW) [E02]	50'	12"	4.00%	E02	ROOF DRAIN CONNECTION
E02	NYLOPLAST	3099CGD	705.35	12" HDPE 701.34 (SE) [E01] 12" RCP 695.34 (E) [E02.1]	12" HDPE 695.24 (NW) [E03]	41'	12"	1.70%	E03	
E02.1	TYPE "C" MH	R–3455–C	702.70	12" HDPE 696.27 (E) [E02.2]	12" RCP 696.17 (W) [E02]	59'	12"	1.40%	E02	
E02.2	12" CLEANOUT	SEE DETAIL	699.61		12" HDPE 696.71 (W) [E02.1]	89'	12"	0.50%	E02.1	CONCRETE TRENCH DRAIN
E03	TYPE "C" MH	R–4342	702.89	12" HDPE 694.54 (SE) [E02]	12" RCP 694.44 (SW) [E04]	47'	12"	1.70%	E04	
E04	TYPE "C" MH	R–4342	704.09	12" RCP 693.65 (NE) [E03] 12" HDPE 698.15 (SE) [E04.1]	15" RCP 693.55 (S) [Q02]	15'	15"	1.50%	Q02	
E04.1	NYLOPLAST	3099CGD	705.61		12" HDPE 699.98 (NW) [E04]	46'	12"	4.00%	E04	
F01	TYPE "J" MH	R–1772	704.19	24" RCP 693.25 (S) [Z03] 24" RCP 693.25 (W) [F02]	24" RCP 693.20 (N) [X01]	29'	24"	1.18%	X01	
F02	TYPE "C" MH	R–1772	704.10	24" RCP 693.32 (S) [Z04]	24" RCP 693.32 (E) [F01]	10'	24"	0.78%	F01	
P01	TYPE "J" MH	R–1772	709.50	12" CROSSING PIPES 692.00 (E) []	3" CROSSING PIPES 703.55 (W) []	39'	3"	0.00%		STORMWATER PUMP STATION #1
P02	12" CLEANOUT	SEE DETAIL	694.20	12" CROSSING PIPES 691.35 (S) []	12" CROSSING PIPES 691.35 (N) [P03]	5'	12"	0.91%	P03	CONCRETE TRENCH DRAIN
P03	TYPE "M" INLET	R–3455–C	694.33	12" CROSSING PIPES 691.30 (S) [P02]	12" CROSSING PIPES 691.20 (N) [P04]	12'	12"	0.80%	P04	18" SNOUT OIL & DEBRIS STOP
P04	TYPE "K" MH	R–1772	703.98	12" CROSSING PIPES 691.10 (S) [P03]	12" CROSSING PIPES 697.50 (W) []	204'	12"	0.00%		STORMWATER PUMP STATION #2
Q01	CONTECH CASCADE CS–5	SEE DETAIL	706.69	12" RCP 693.30 (S) [D03]	12" RCP 693.30 (N) [D04]	8'	12"	0.50%	D04	WATER QUALITY UNIT
Q02	CONTECH CASCADE CS–5	SEE DETAIL	706.06	15" RCP 693.32 (N) [E04]	15" RCP 693.22 (S) [Z02]	15'	15"	1.50%	Z02	WATER QUALITY UNIT
X01	EXISTING DRAINAGE MH	–	703.53	24" RCP 692.85 (S) [F01] 60" EX. 60" CMP 692.85 (E) [] 18" EX. 18" RCP 696.10 (N) []	60" EX. 60" CMP 692.85 (W) []	19'	60"	1.61%		

STORM WATER PUMP STATION SPECIFICATION TABLE

STORM WATER PUMP STATION #1:
HOMA MODEL AMS336-200/2,8T/C
(REFER TO SITE DETAILS FOR DETAILED PUMP INFORMATION)

STORM WATER PUMP STATION #2
HOMA MODEL AMS646-340/15,3P/C
(REFER TO SITE DETAILS FOR DETAILED PUMP INFORMATION)

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855–7894
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SANITARY SEWER	CITIZENS ENERGY GROUP	BRAD HOSTETLER JR	(317) 927–4351
STORM SEWER	CITY OF INDIANAPOLIS	JEFF MEID	(317) 327–8583
TELEPHONE	AT&T	CHRIS CARSON	(317) 610–5469
WATER	CITIZENS ENERGY GROUP	RICHARD NEWELL	(317) 927–4377
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TELEPHONE (5G)	T–MOBILE	MELISSA MORENO	(317) 997–8553

(REV. 10/21/24)

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3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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SUITE 285
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Plumbing Engineer
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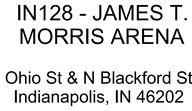
HARRISONVILLE, MO 64701
816-806-3729

245 UNIVERSITY BLVD.



N
KEY PLAN

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APPROVAL PENDING
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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE

STRUCTURE DATA TABLES

SHEET NUMBER

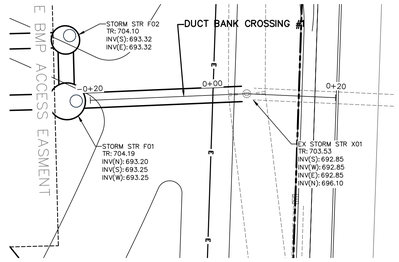
C404

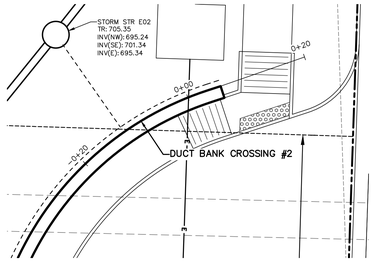
UTILITY LEGEND

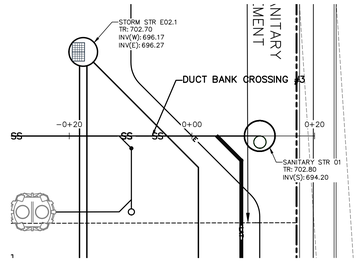
ETC	ELECTRIC / TELECOMMUNICATIONS LINE
W	WATER LINE
FP	FIRE PROTECTION LINE
RD	ROOF DRAIN LINE
G	GAS LINE
SS	SANITARY SEWER MAIN
LAT	SANITARY LATERAL
FM	SANITARY FORCE MAIN
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
GM	GAS METER
	ELECTRICAL TRANSFORMER
	VALVE
	WATER FITTINGS
WM	WATER METER PIT
	FIRE HYDRANT W/ ASSEMBLY

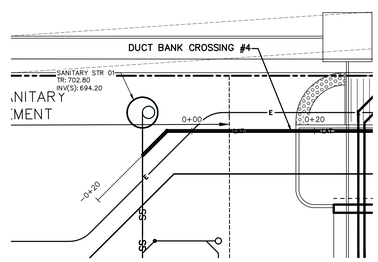
EXISTING LEGEND

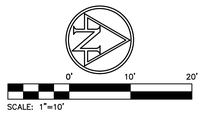
CW	Chilled Water MH		Sign
CO	Clean Out		Sprinkler Control Valve
CI	Curb Inlet	TH	Telephone Handhole
DI	Drainage Inlet		Telephone Marker
DMH	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant		Water Valve
	Guard Post	-cw-	Buried Chilled Water Line
	Light Pole	-e-	Buried Electric Line
MW	Monitoring Well	-w-	Buried Water Line
	Power Pole	-ohe-	Overhead Electric Line
S	Sanitary MH	-fo-	Fiber Optic Line

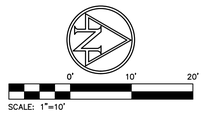


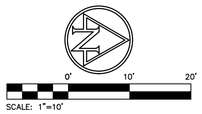


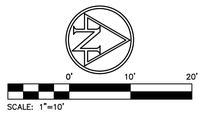












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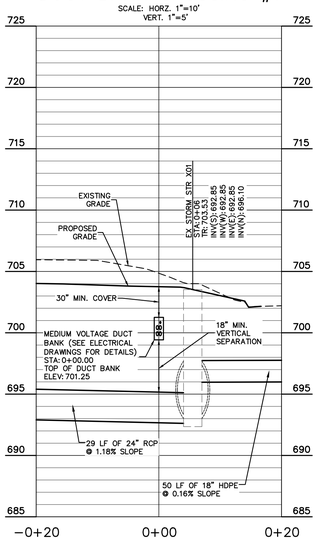

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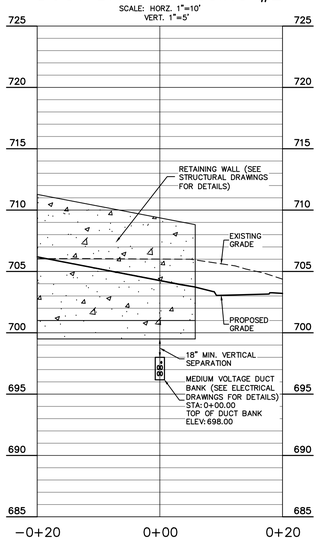

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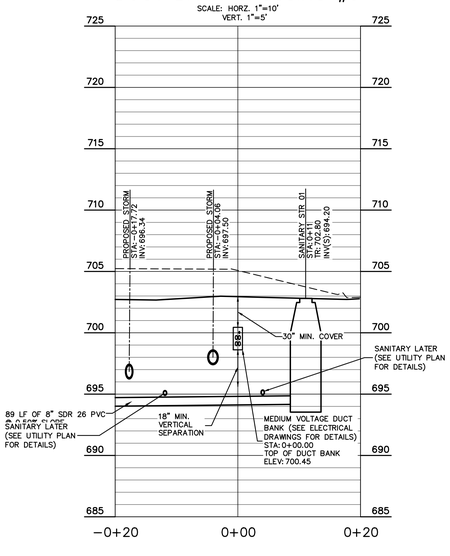

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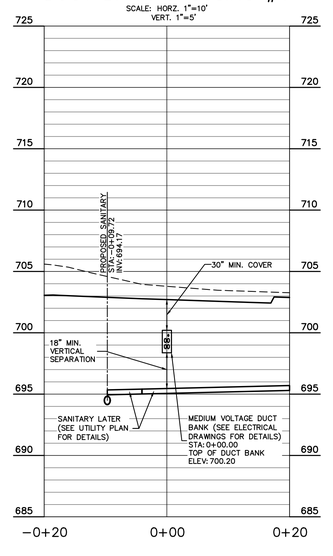

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CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855-7894
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IU Project NO. 20240127

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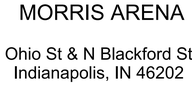

N

KEY PLAN

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A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
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SHEET TITLE

DUCT BANK CROSSINGS

SHEET NUMBER

C405

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FM	SANITARY FORCE MAIN
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
GM	GAS METER
	ELECTRICAL TRANSFORMER
	VALVE
	WATER FITTINGS
WM	WATER METER PIT
	FIRE HYDRANT W/ ASSEMBLY

EXISTING LEGEND

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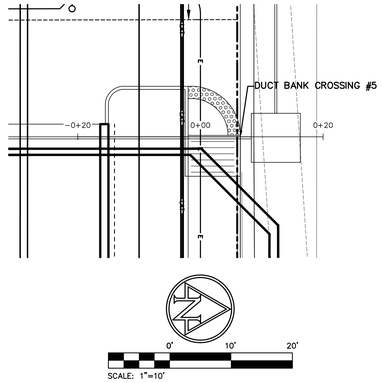
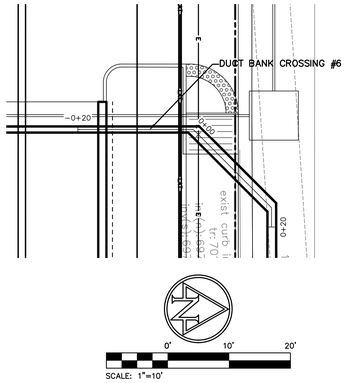
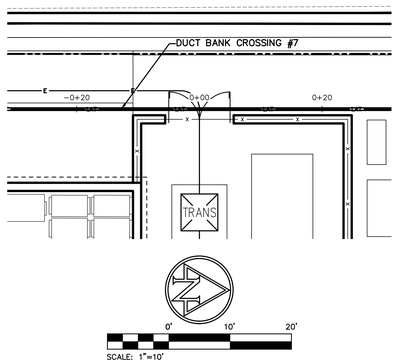
CI	Curb Inlet	TH	Telephone Handhole
DI	Drainage Inlet		Telephone Marker
DMH	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant	WV	Water Valve
	Guard Post	–cw–	Buried Chilled Water Line
	Light Pole	–e–	Buried Electric Line
MW	Monitoring Well	–w–	Buried Water Line
	Power Pole	–ohe–	Overhead Electric Line
S	Sanitary MH	–fo–	Fiber Optic Line

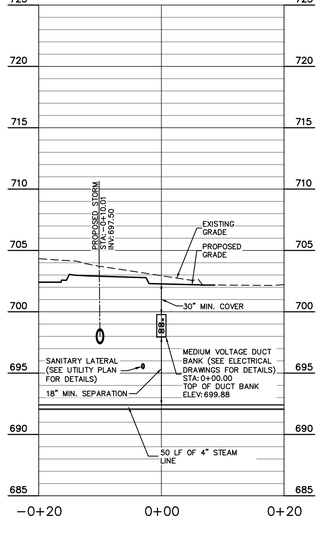






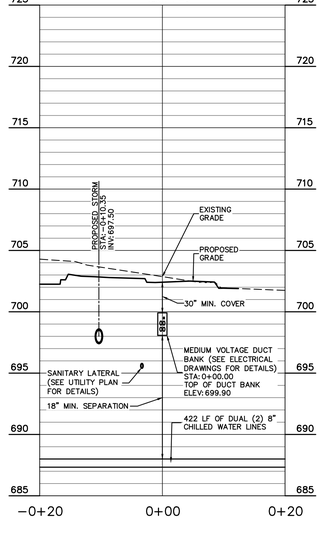
DUCT BANK CROSSING #5

SCALE: HORZ. 1"=10'
VERT. 1"=5'



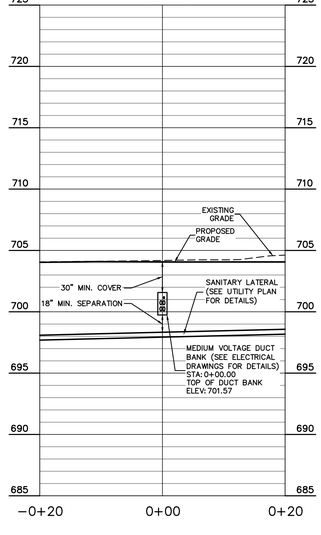
DUCT BANK CROSSING #6

SCALE: HORZ. 1"=10'
VERT. 1"=5'



DUCT BANK CROSSING #7

SCALE: HORZ. 1"=10'
VERT. 1"=5'



UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855-7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610-5469
GAS	CITIZENS GAS	RICH MILLER	(317) 927-4684
SANITARY SEWER	CITIZENS ENERGY GROUP	BRAD HOSTETLER JR	(317) 927-4351
STORM SEWER	CITY OF INDIANAPOLIS	JEFF MEID	(317) 327-8583
TELEPHONE	AT&T	CHRIS CARSON	(317) 610-5469
WATER	CITIZENS ENERGY GROUP	RICHARD NEWELL	(317) 927-4377
STEAM & CHILLED WATER	CITIZENS ENERGY GROUP	PHILIP SEARCY	(317) 308-9910
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(REV. 10/21/24)

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IU Project NO. 20240127

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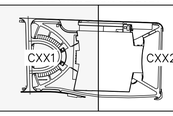

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

DUCT BANK CROSSINGS

SHEET NUMBER

C406

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PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
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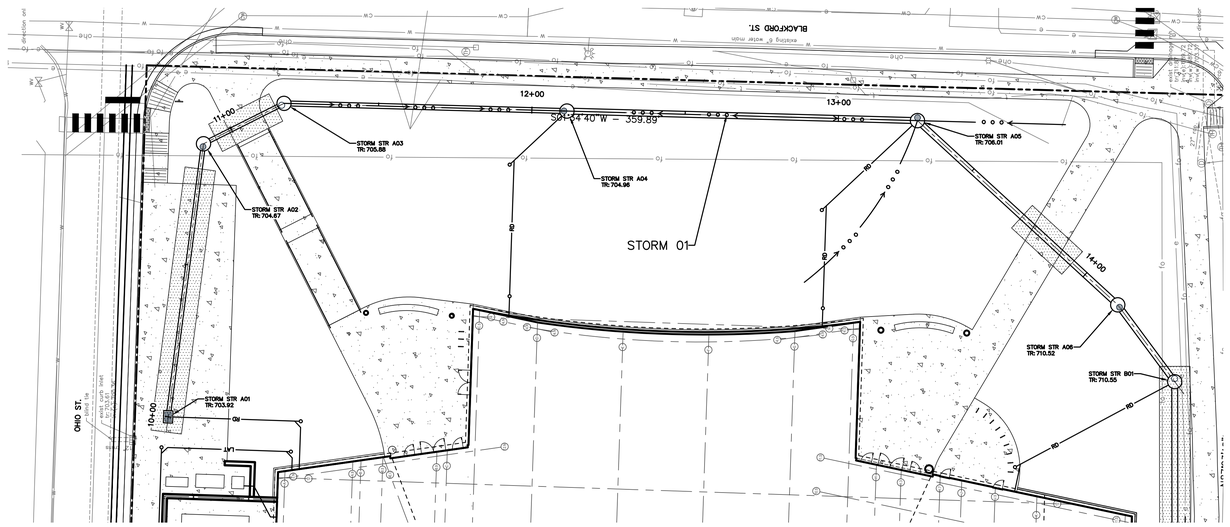

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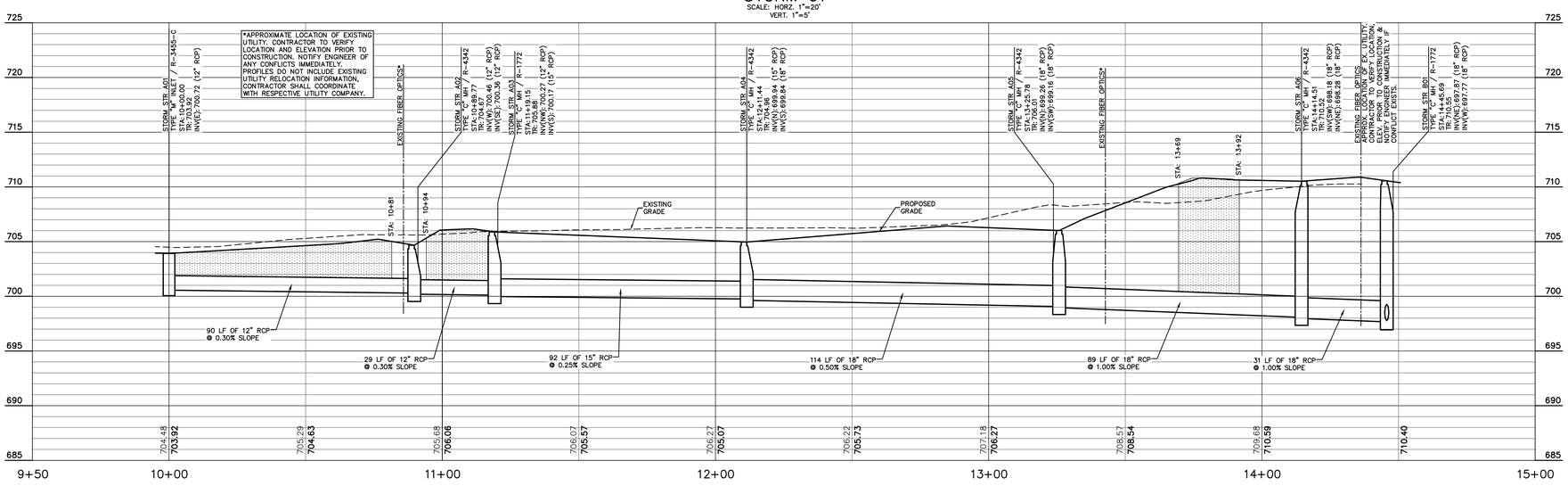

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D	Drainage MH	T	Telephone MH
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	Guard Post	–cw–	Buried Chilled Water Line
	Light Pole	–e–	Buried Electric Line
	Monitoring Well	–w–	Buried Water Line
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(NAVD 88 DATUM)

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ELEV: 708.27'

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ELEV: 707.19'

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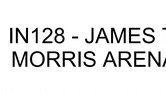

N

KEY PLAN

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ASI PROJECT NO. 23112.000

SHEET TITLE

STORM SEWER PLAN & PROFILES

SHEET NUMBER

C410

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PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
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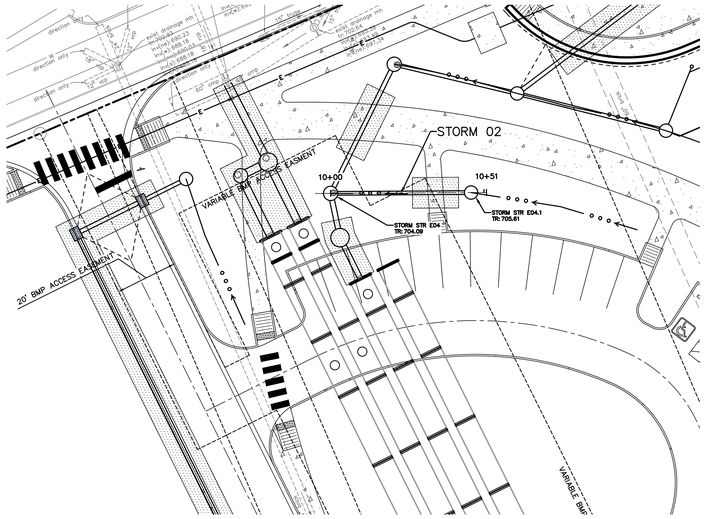

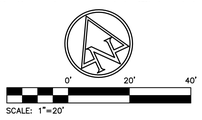

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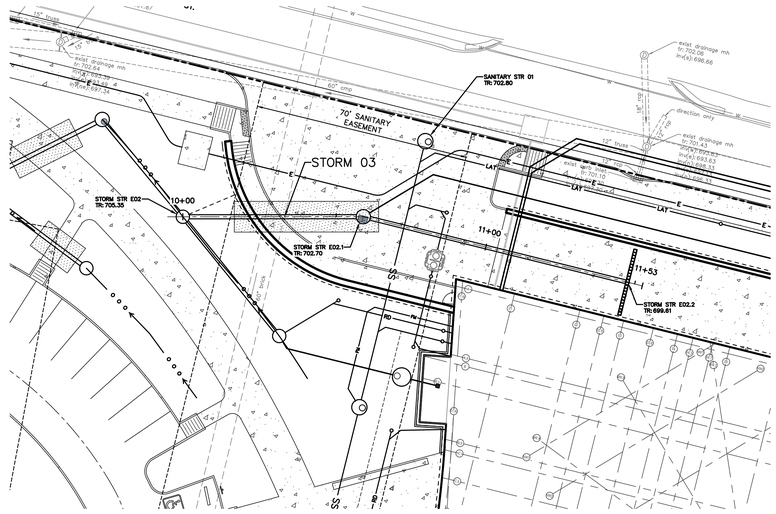
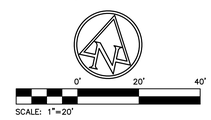
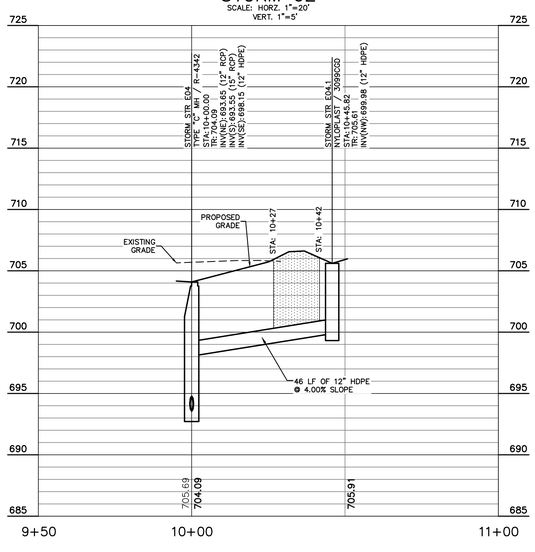




SCALE: 1"=20'

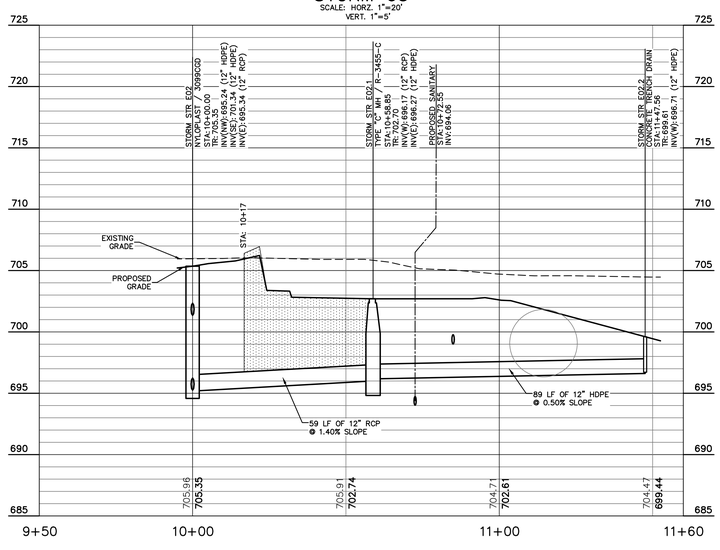
STORM 02

SCALE: HORZ. 1"=20'
VERT. 1"=5'



STORM 03

SCALE: HORZ. 1"=20'
VERT. 1"=5'



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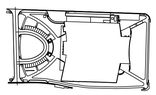

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ASI PROJECT NO. 23112.000

SHEET TITLE

STORM SEWER PLAN & PROFILES

SHEET NUMBER

C411

PLOT DATE: 1/24/2025 4:56 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
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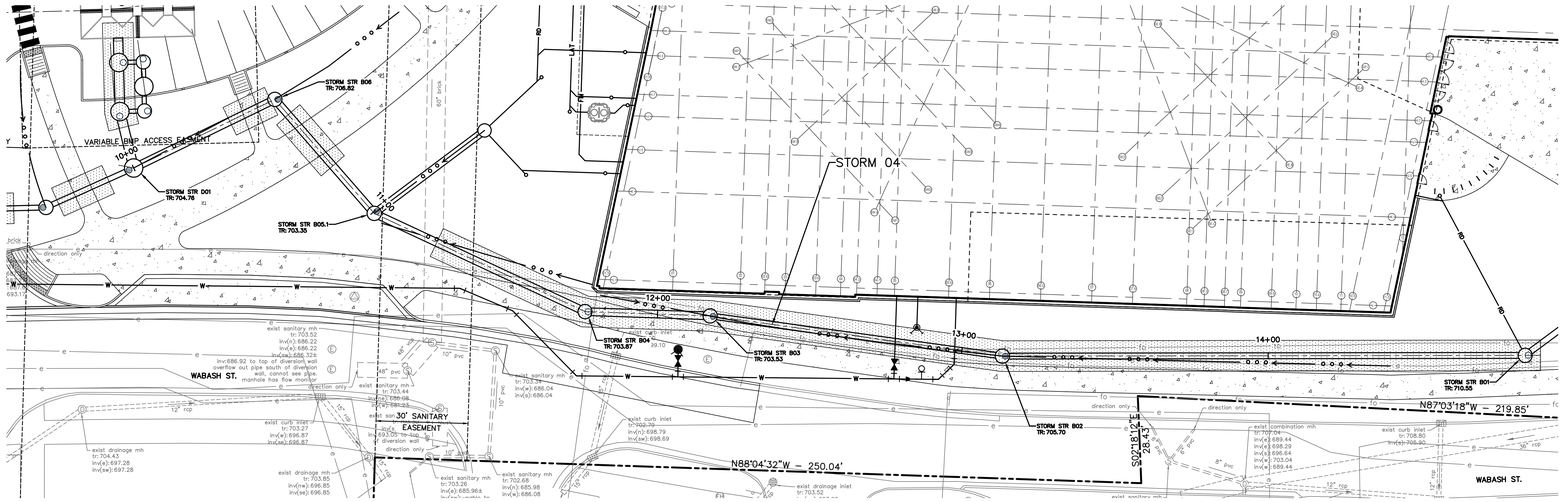

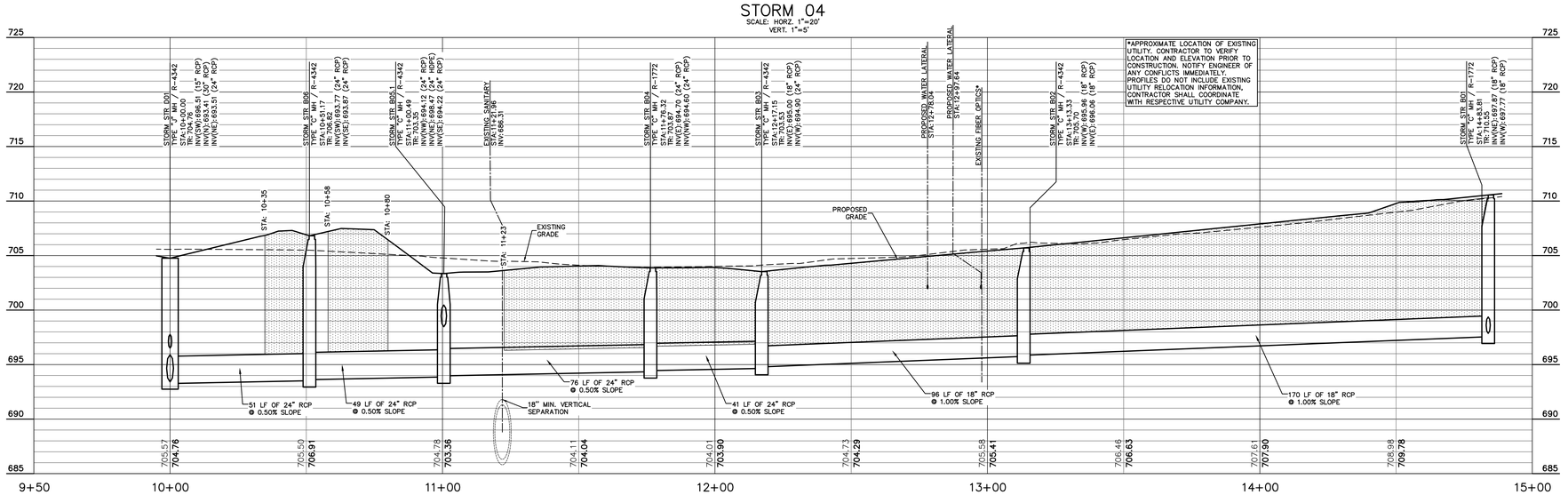

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(REV. 10/21/24)

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IU Project NO. 20240127

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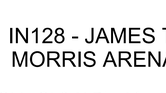

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A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
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ASI PROJECT NO. 23112.000

SHEET TITLE

STORM SEWER PLAN & PROFILES

SHEET NUMBER

C412

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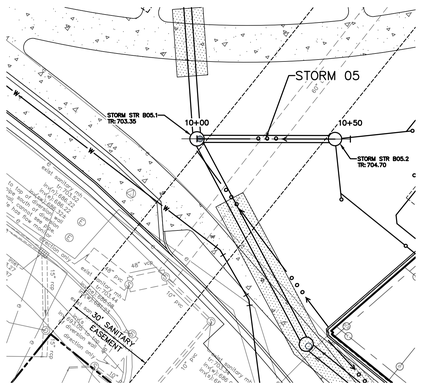
DRAWING FILE: P:\2023\23087\10. Drawings\Civil\Construction Documents\2023.23087.CE.C410.STMP1.dwg



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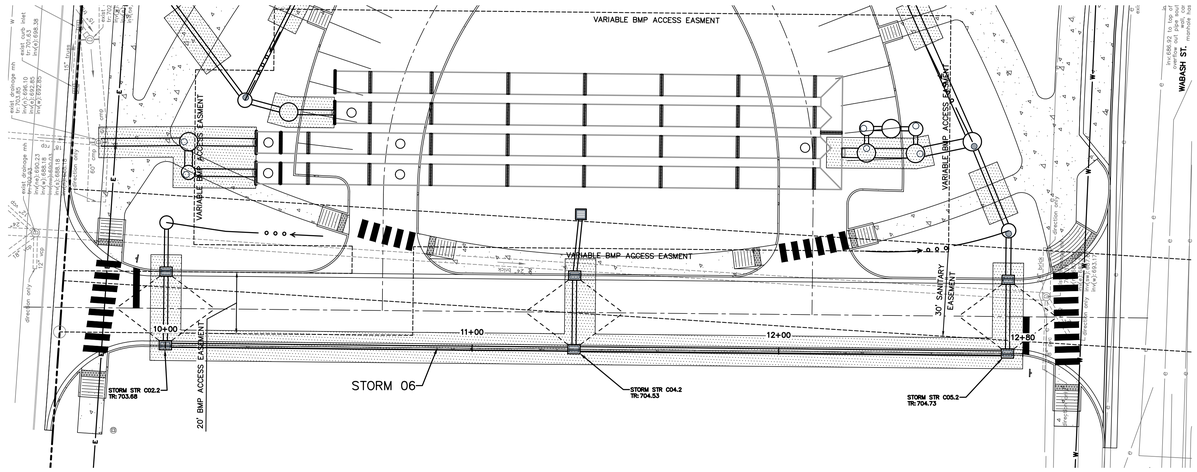
SCALE: 1"=20'



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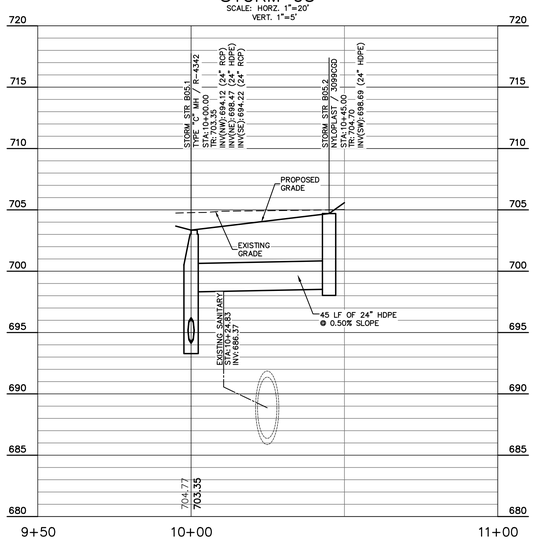
STORM 05

SCALE: HORZ. 1"=20'
VERT. 1"=5'



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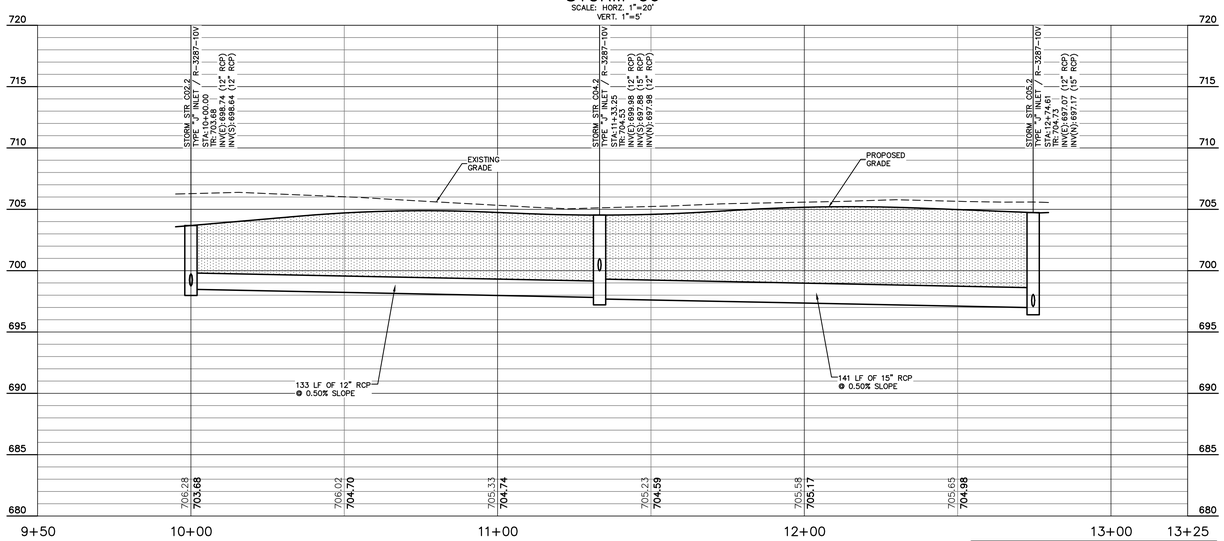
VERT. 1"=5'



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	Drainage Inlet		Telephone Marker
	Drainage MH		Telephone MH
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	Electric MH		Tree
	Fire Hydrant		Water Valve
	Guard Post	—cw—	Buried Chilled Water Line
	Light Pole	—e—	Buried Electric Line
	Monitoring Well	—w—	Buried Water Line
	Power Pole	—ohe—	Overhead Electric Line
S	Sanitary MH	—fo—	Fiber Optic Line

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(NAVD 88 DATUM)

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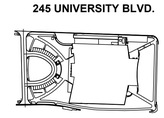

N

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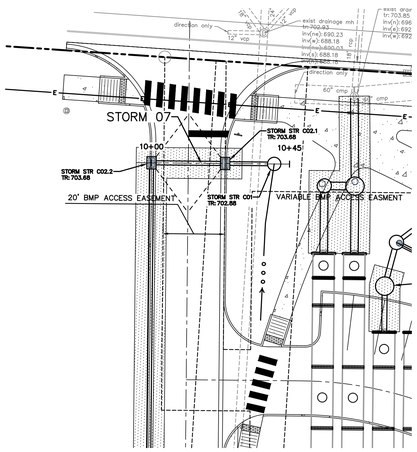

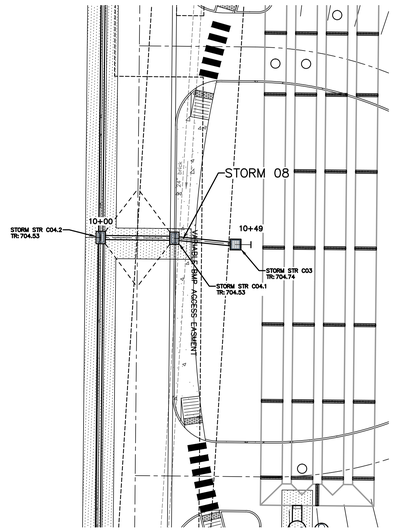

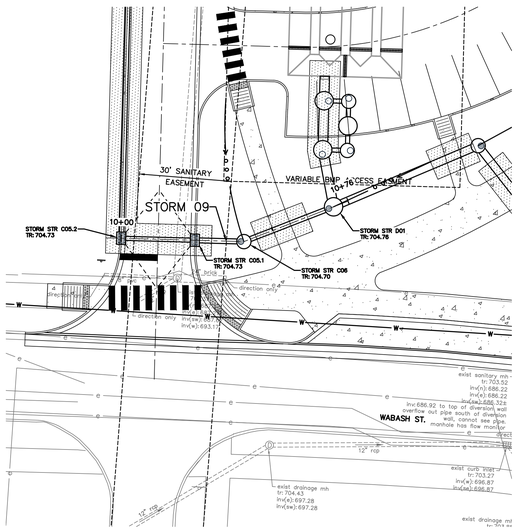

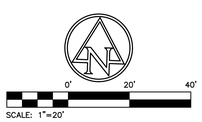

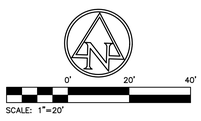

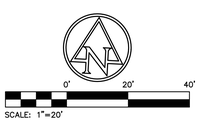

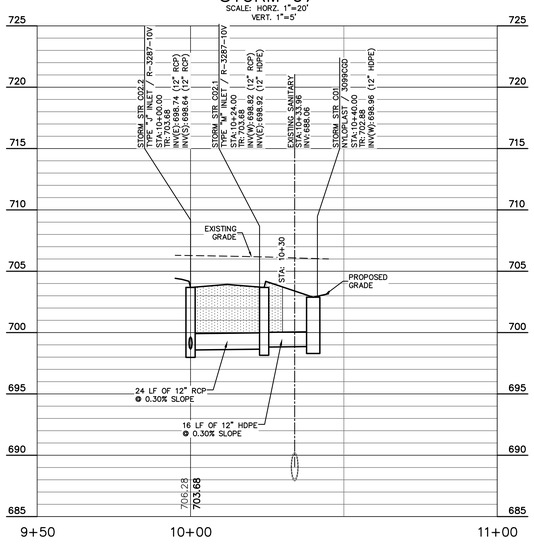

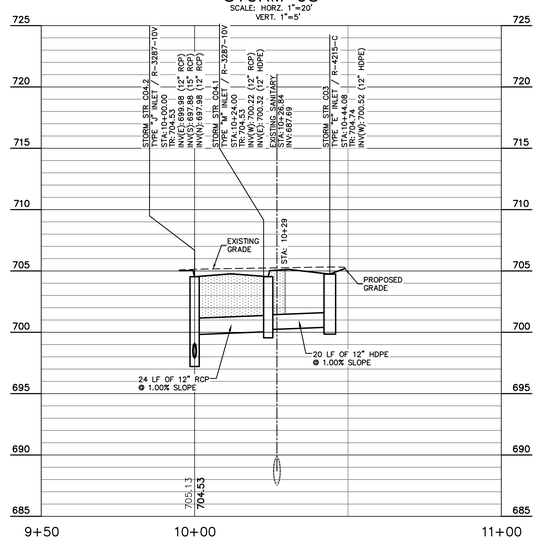

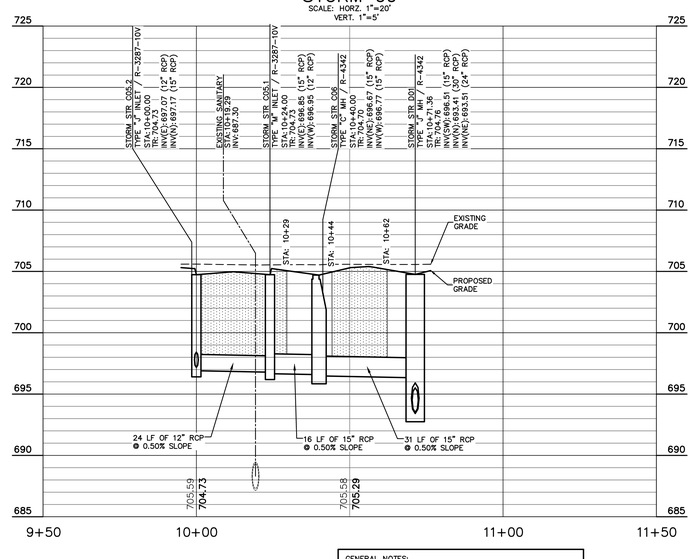

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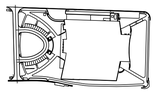

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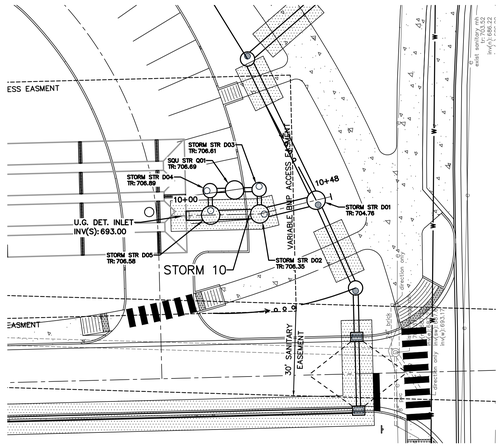
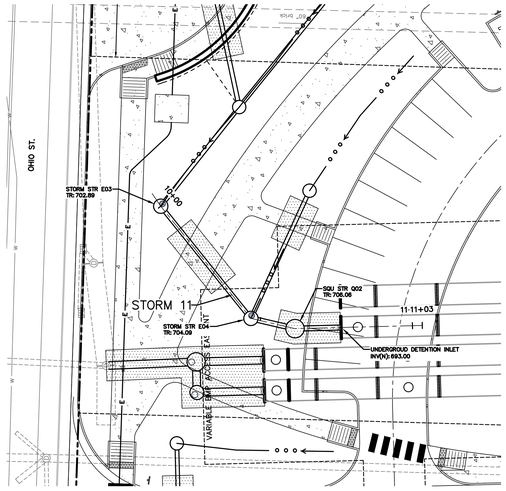
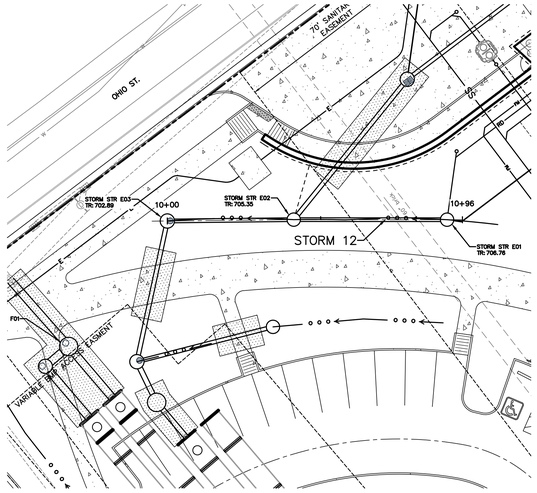








SCALE: 1"=20'



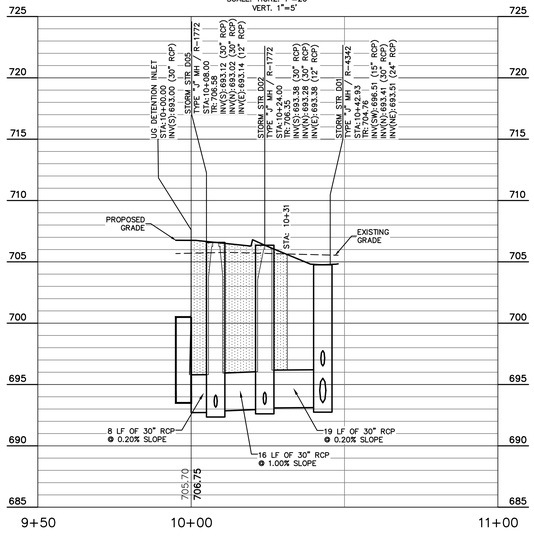
SCALE: 1"=20'



SCALE: 1"=20'

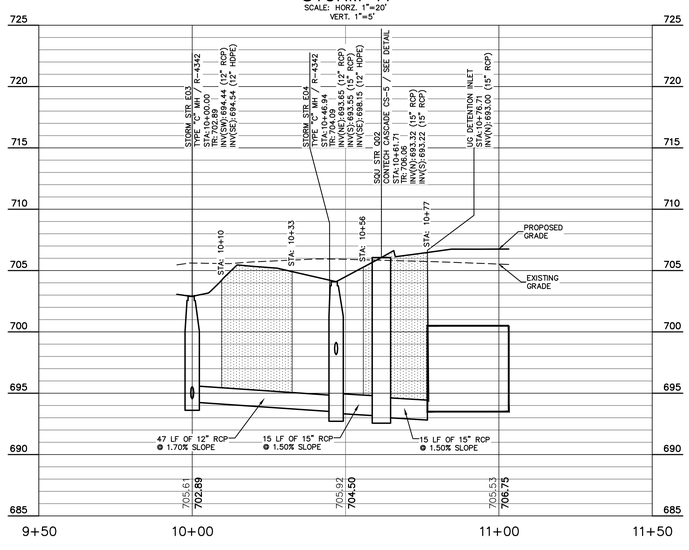
STORM 10

SCALE: HORZ. 1"=20'
VERT. 1"=5'



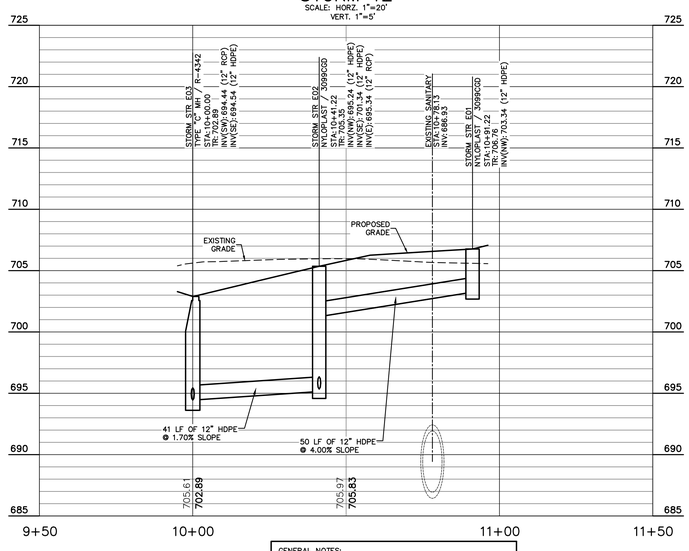
STORM 11

SCALE: HORZ. 1"=20'
VERT. 1"=5'



STORM 12

SCALE: HORZ. 1"=20'
VERT. 1"=5'



UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	COMCAST	–	–
ELECTRIC	INDIANA UNIVERSITY	P.K. PATEL	(812) 855–7894
FIBER OPTIC	AT&T	CHRIS CARSON	(317) 610–5469
GAS	CITIZENS GAS	RICH MILLER	(317) 927–4684
SANITARY SEWER	CITIZENS ENERGY GROUP	BRAD HOSTETLER JR	(317) 927–4351
STORM SEWER	CITY OF INDIANAPOLIS	JEFF MEID	(317) 327–8583
TELEPHONE	AT&T	CHRIS CARSON	(317) 610–5469
WATER	CITIZENS ENERGY GROUP	RICHARD NEWELL	(317) 927–4377
STEAM & CHILLED WATER	CITIZENS ENERGY GROUP	PHILIP SEARCY	(317) 308–9910
TELEPHONE (5G)	T–MOBILE	MELISSA MORENO	(317) 997–8553

(REV. 10/31/24)

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EXISTING LEGEND

CW	Chilled Water MH	—|—	Sign
◎	Clean Out		Sprinkler Control Valve
	Curb Inlet	TH	Telephone Handhole
	Drainage Inlet		Telephone Marker
D	Drainage MH	T	Telephone MH
EH	Electric Handhole		Transformer
E	Electric MH		Tree
	Fire Hydrant		Water Valve
	Guard Post	—cw—	Buried Chilled Water Line
	Light Pole	—e—	Buried Electric Line
MW	Monitoring Well	—w—	Buried Water Line
	Power Pole	—ohe—	Overhead Electric Line
S	Sanitary MH	—fo—	Fiber Optic Line

BENCHMARK DATA

(NAVD 88 DATUM)

TBM #1
CHISELED "X" ON SOUTHWEST CORNER OF TRANSFORMER PAD, EAST SIDE OF BLACKFORD ST., AT SOUTHWEST CORNER OF MILITARY PARK.
ELEV: 708.27

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CHISELED "X" ON SOUTH–SOUTH EAST BOLT OF FIRE HYDRANT, NORTH SIDE OF WABASH ST., ACROSS STREET FROM ELECTRIC SUBSTATION.
ELEV: 707.19'

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STORM SEWER NOTES

1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT n = 0.012

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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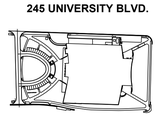

N

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE

STORM SEWER PLAN & PROFILES

SHEET NUMBER

C415

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PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
EDITED BY: DNELICH
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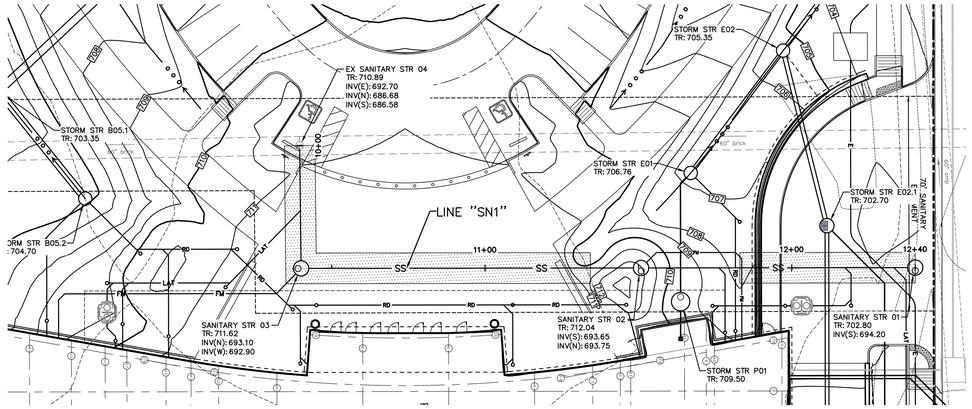

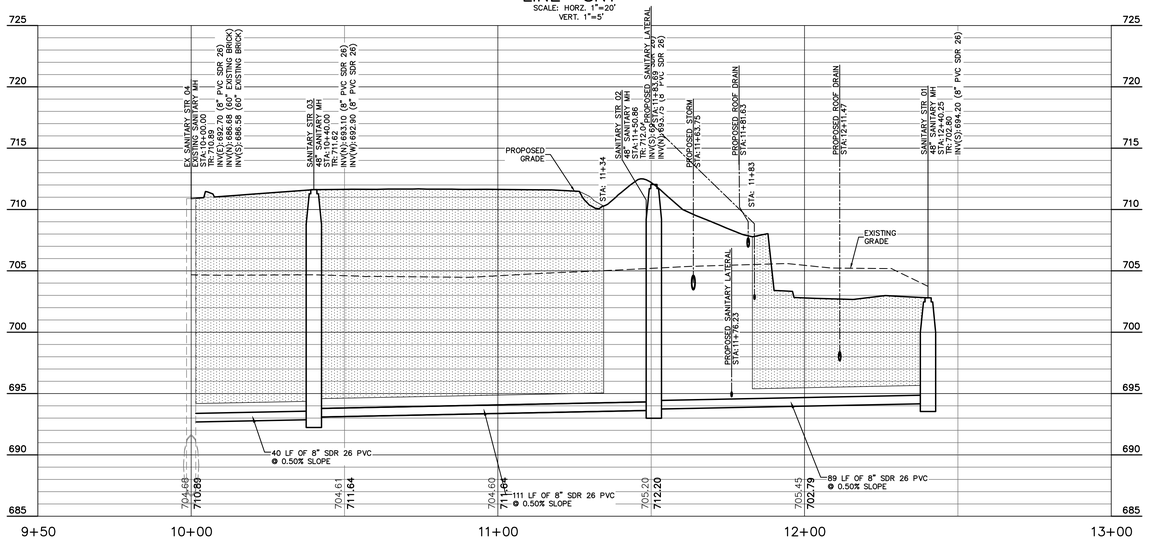

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(REV. 10/21/24)

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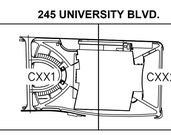

KEY PLAN

SEAL | DATE

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A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
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ASI PROJECT NO. 23112.000

SHEET TITLE

SANITARY SEWER PLAN & PROFILE

SHEET NUMBER

C420

PLOT DATE: 1/24/2025 5:00 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/22/2025
EDITED BY: DWELCH
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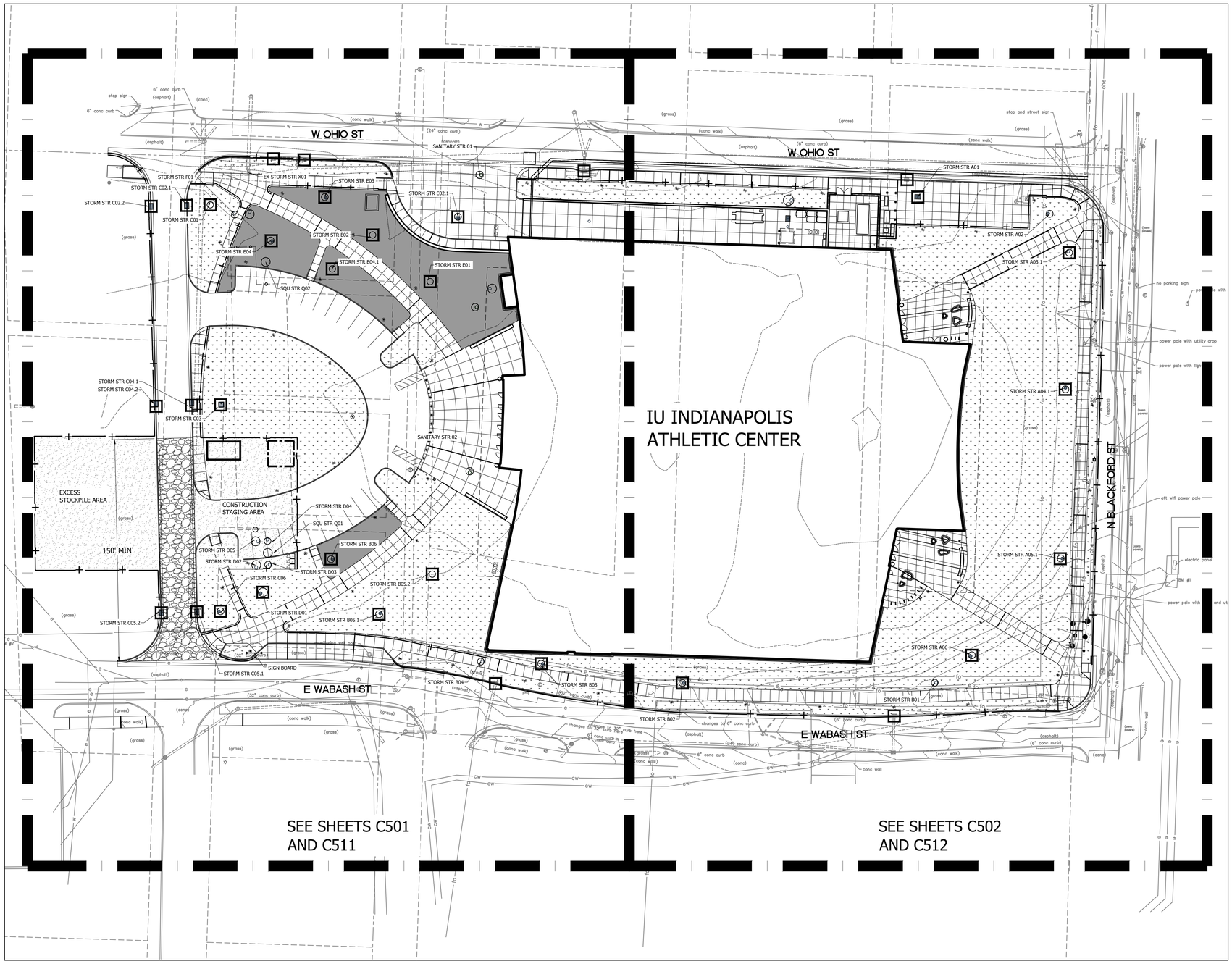

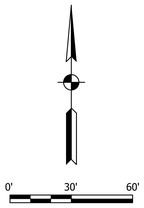

EROSION CONTROL NOTES:

1. THE EROSION CONTROL PLAN SHOWN ON SHEETS C501 AND C502 IS APPLICABLE FOR PRE-CONSTRUCTION AND CONSTRUCTION ACTIVITIES. THE EROSION CONTROL PLAN SHOWN ON SHEETS C511 AND C512 IS APPLICABLE FOR POST-CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS SET FORTH IN THE MANUAL.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY IDEM, MCSW, AND/OR THE CITY INSPECTOR.
4. REFER TO SHEET C001 FOR SOILS MAP & SOILS CHARACTERISTICS.
5. REFER TO SHEET C500 FOR STORMWATER POLLUTION PREVENTION PLAN DETAILS.
6. REFER TO LANDSCAPE PLAN FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN.
7. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
8. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
9. REFER TO THE STORMWATER POLLUTION PREVENTION NOTES SHEET C500 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.
10. CONTRACTOR TO PROVIDE A STABLE TEMPORARY GRAVEL CONSTRUCTION INGRESS/EGRESS CONDITION FROM THE CONSTRUCTION SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.
11. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIOD OF ½" OF RAINFALL OR GREATER.
12. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.
13. THE 100-YEAR FLOODPLAIN/FLOODWAYS ARE NOT PRESENT ON THIS SITE.
14. PRESENCE OF HYDRIC SOILS ON THIS SITE: NONE.
15. CONTRACTOR SHALL PROVIDE THE DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES OF THE CITY OF INDIANAPOLIS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE INCLUDING THE START DATES FOR EACH LAND DISTURBING ACTIVITY.
16. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.
17. DETAILS AND REQUIREMENTS OF THE CITY OF INDIANAPOLIS TECHNICAL STANDARDS MANUAL SHALL BE UTILIZED AND ADHERED TO.

INDIANA UNIVERSITY RESPONSIBLE PERSON IN CHARGE OF EROSION CONTROL:

BRETT HATCHETT
SENIOR ASSOCIATE UNIVERSITY ARCHITECT
INDIANA UNIVERSITY
HEALTH SCIENCES, SUITE 4100
1050 WISHARD BLVD.
INDIANAPOLIS, IN 46202
317-274-7771
bhatchet@iu.edu

KEY NOTES

1. SILT FENCE
2. INLET PROTECTION
3. STABILIZED CONSTRUCTION ENTRANCE
4. TEMPORARY SEEDING
5. CONCRETE WASHOUT
6. EROSION CONTROL BLANKET

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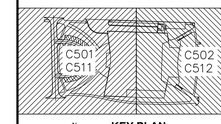

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RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE
OVERALL EROSION CONTROL PLAN

SHEET NUMBER
C500

PLOT DATE: 1/13/2025 2:46 PM
PLOT SCALE: 1:1.000
EDIT DATE: 1/13/2025
EDITED BY: JOHNMOHERY
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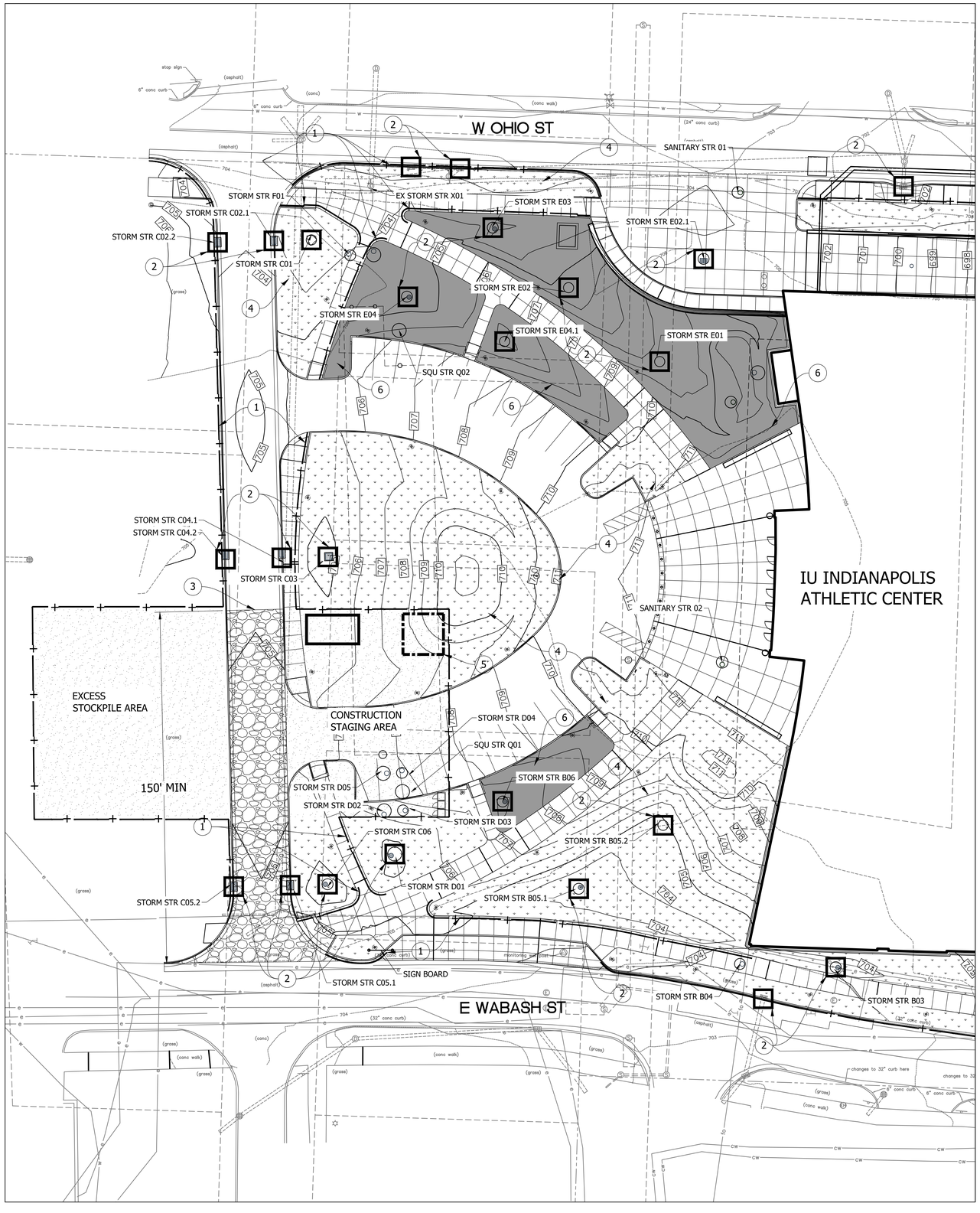

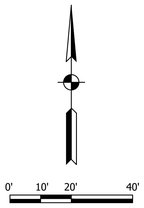

EROSION CONTROL NOTES:

1. THE EROSION CONTROL PLAN SHOWN ON THIS SHEET IS APPLICABLE FOR PRE-CONSTRUCTION AND CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS SET FORTH IN THE MANUAL.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY IDEM, MCSW, AND/OR THE CITY INSPECTOR.
4. REFER TO SHEET C001 FOR SOILS MAP & SOILS CHARACTERISTICS.
5. REFER TO SHEET C500 FOR STORMWATER POLLUTION PREVENTION PLAN DETAILS.
6. REFER TO LANDSCAPE PLAN FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN.
7. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
8. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
9. REFER TO THE STORMWATER POLLUTION PREVENTION NOTES SHEET C500 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.
10. CONTRACTOR TO PROVIDE A STABLE TEMPORARY GRAVEL CONSTRUCTION INGRESS/EGRESS CONDITION FROM THE CONSTRUCTION SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.
11. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIOD OF ½" OF RAINFALL OR GREATER.
12. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.
13. THE 100-YEAR FLOODPLAIN/FLOODWAYS ARE NOT PRESENT ON THIS SITE.
14. PRESENCE OF HYDRIC SOILS ON THIS SITE: NONE.
15. CONTRACTOR SHALL PROVIDE THE DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES OF THE CITY OF INDIANAPOLIS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE INCLUDING THE START DATES FOR EACH LAND DISTURBING ACTIVITY.
16. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.
17. DETAILS AND REQUIREMENTS OF THE CITY OF INDIANAPOLIS TECHNICAL STANDARDS MANUAL SHALL BE UTILIZED AND ADHERED TO.

INDIANA UNIVERSITY RESPONSIBLE PERSON IN CHARGE OF EROSION CONTROL:

BRETT HATCHETT
SENIOR ASSOCIATE UNIVERSITY ARCHITECT
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KEY NOTES

1. SILT FENCE
2. INLET PROTECTION
3. STABILIZED CONSTRUCTION ENTRANCE
4. TEMPORARY SEEDING
5. CONCRETE WASHOUT
6. EROSION CONTROL BLANKET

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

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IU Project NO. 20240127

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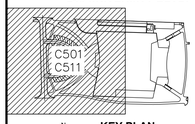

KEY PLAN

SEAL | DATE

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025

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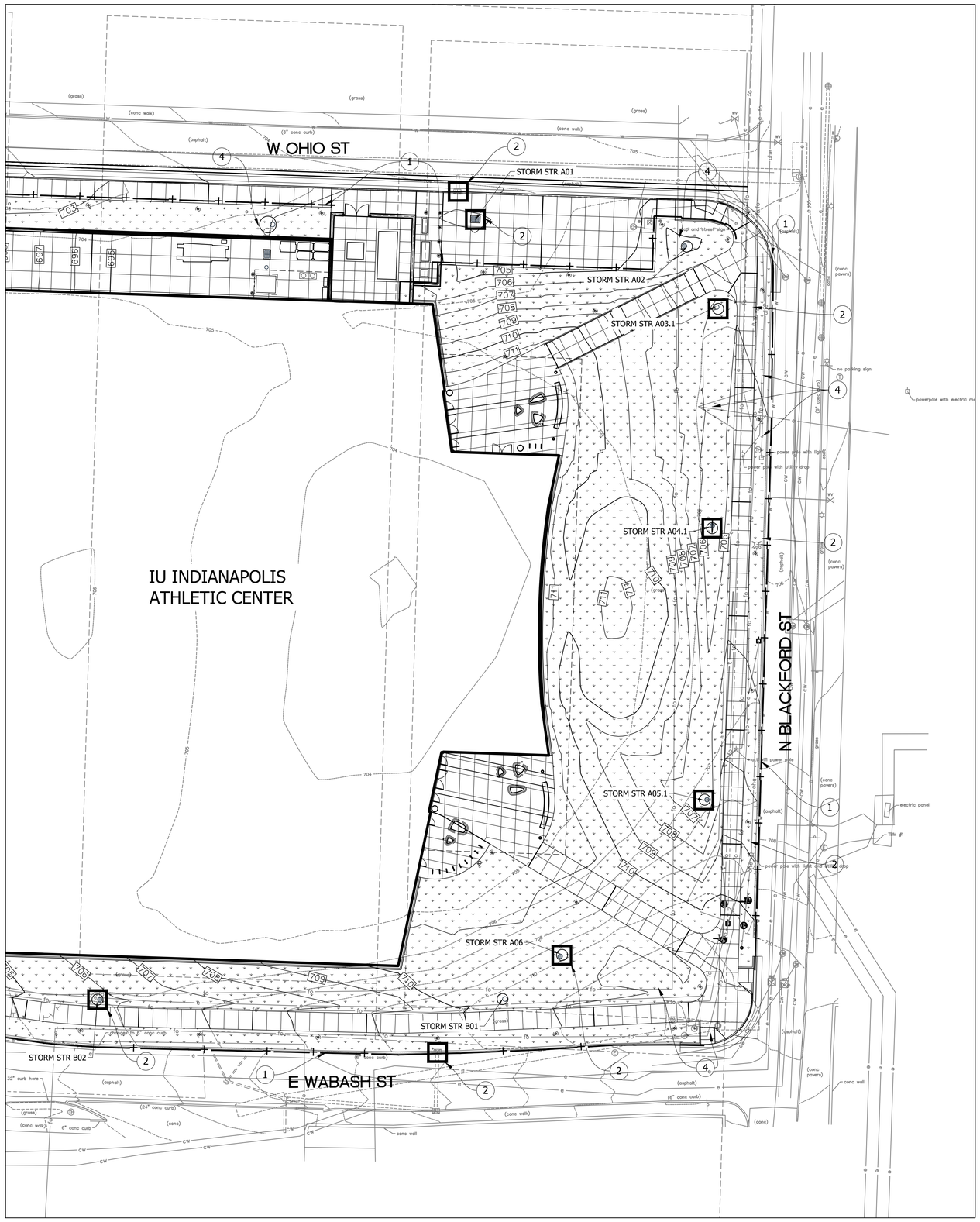
ASI PROJECT NO. 23112.000

SHEET TITLE
CONSTRUCTION EROSION CONTROL PLAN

SHEET NUMBER
C501

PLOT DATE: 1/13/2025 2:46 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/13/2025
EDITED BY: JOHNMCEVERY
DRAWING FILE: F:\2024\240583.IUI Event Center\30 Sheet\wp\04 Eros Cntrl\Pre Erosion Control.dwg



EROSION CONTROL NOTES:

1. THE EROSION CONTROL PLAN SHOWN ON SHEETS C501 AND C502 IS APPLICABLE FOR PRE-CONSTRUCTION AND CONSTRUCTION ACTIVITIES. THE EROSION CONTROL PLAN SHOWN ON SHEETS C511 AND C512 IS APPLICABLE FOR POST-CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS SET FORTH IN THE MANUAL.
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7. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
8. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
9. REFER TO THE STORMWATER POLLUTION PREVENTION NOTES SHEET C500 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.
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KEY NOTES

1. SILT FENCE
2. INLET PROTECTION
3. STABILIZED CONSTRUCTION ENTRANCE
4. TEMPORARY SEEDING
5. CONCRETE WASHOUT
6. EROSION CONTROL BLANKET

GENERAL NOTES:

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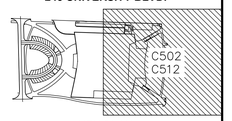

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE
CONSTRUCTION EROSION CONTROL PLAN

SHEET NUMBER
C502

PLOT DATE: 1/13/2025 2:47 PM
PLOT SCALE: 1:1.000
EDIT DATE: 1/13/2025
EDITED BY: JOHNMOWERY
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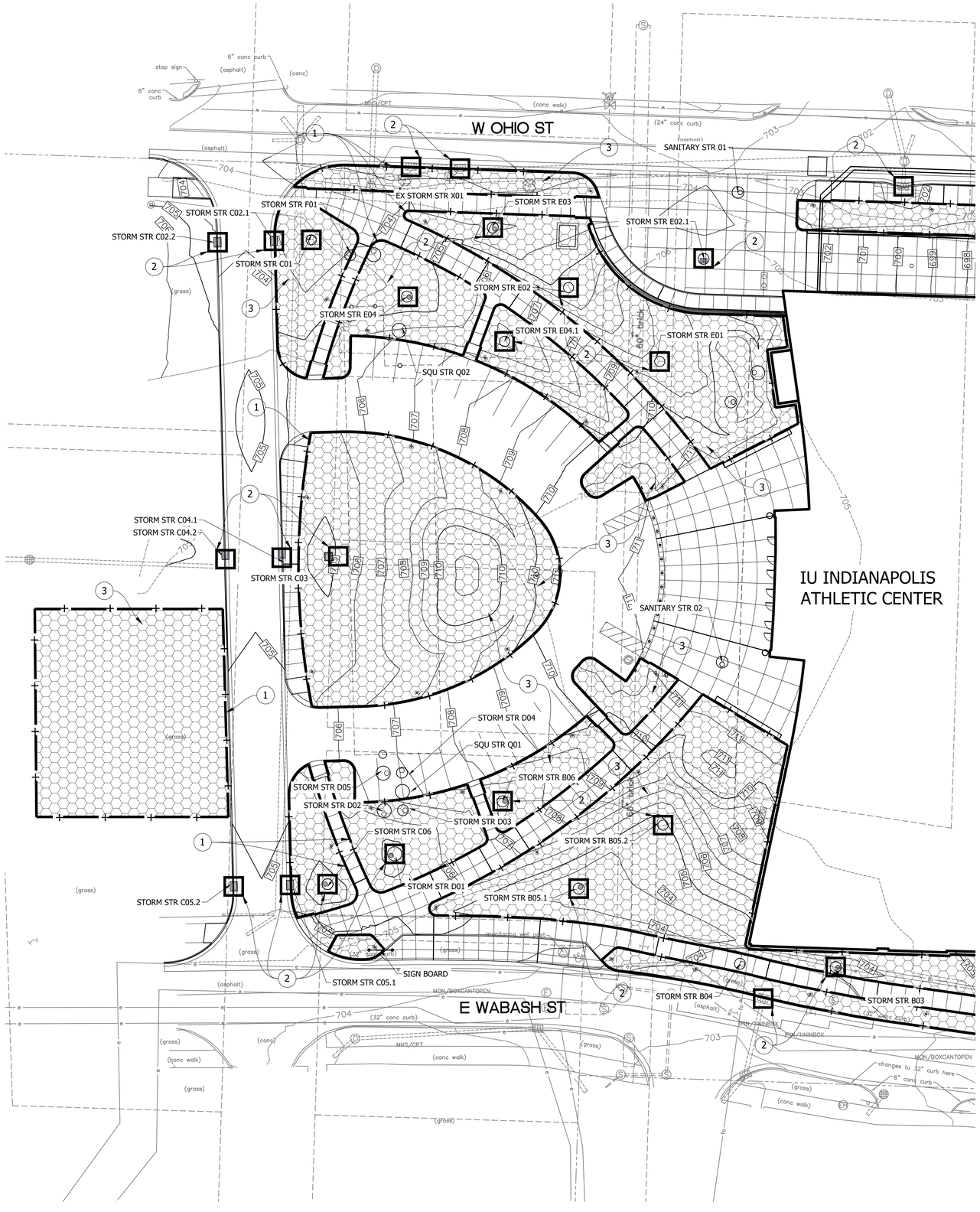

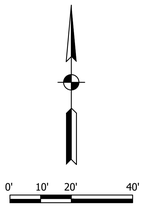

EROSION CONTROL NOTES:

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2. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS SET FORTH IN THE MANUAL.
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KEY NOTES

1. SEDIMENT FILTER ROLL
2. INLET PROTECTION
3. PERMANENT SEEDING

GENERAL NOTES:

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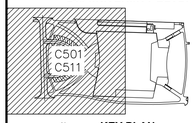

KEY PLAN

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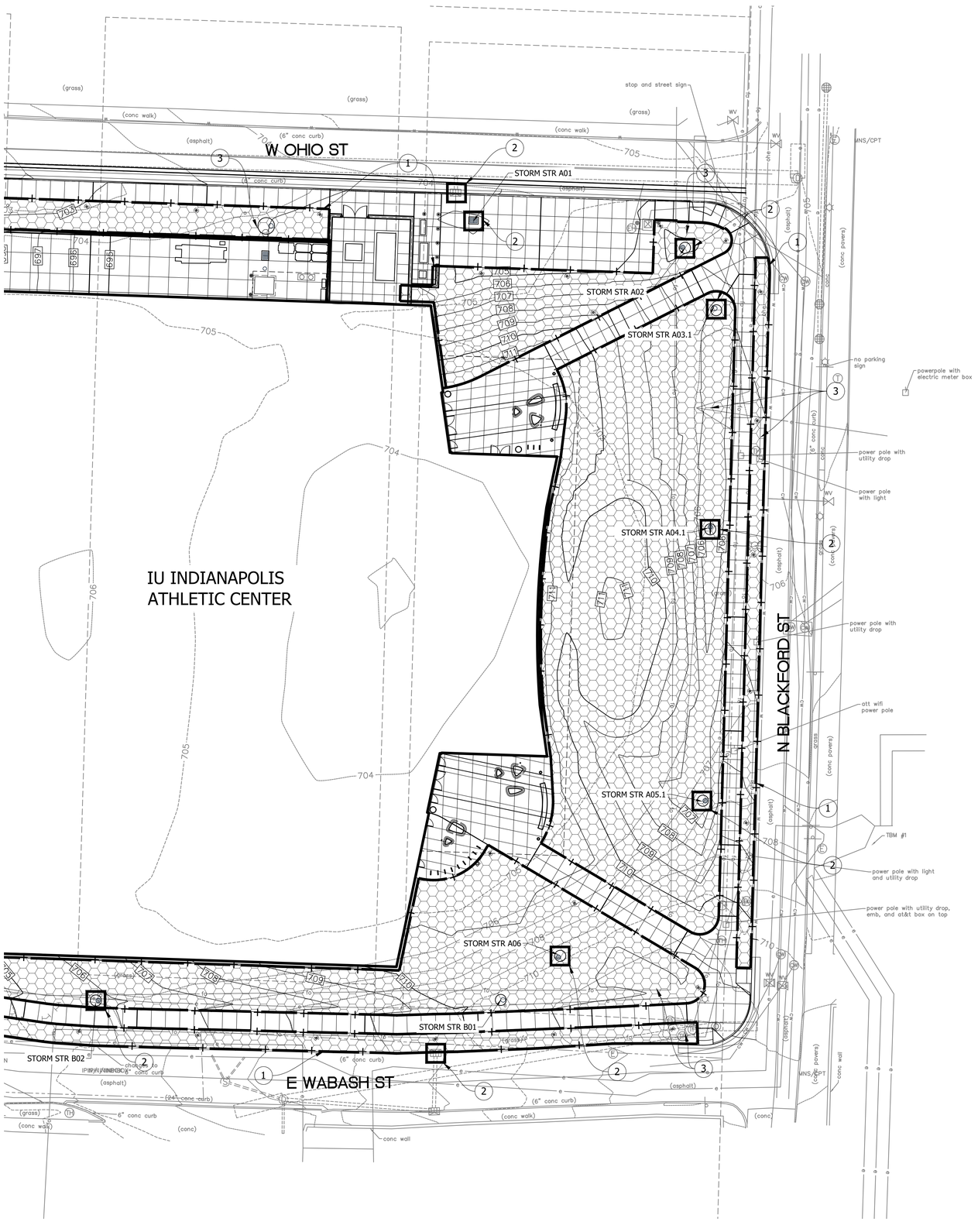
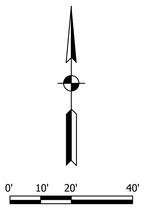
ASI PROJECT NO. 23112.000

SHEET TITLE
POST-CONSTRUCTION EROSION CONTROL PLAN

SHEET NUMBER
C511

PLOT DATE: 1/13/2025 2:47 PM
PLOT SCALE: 1:1 EDIT DATE: 1/13/2025 EDITED BY: JOHNMOWERY DRAWING FILE: F:\2024\240563\8 IU Event Center\03 Sheet\Dwg\04-Erosi Cntrl\Post Erosion Control.dwg





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6. REFER TO LANDSCAPE PLAN FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN.
7. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
8. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
9. REFER TO THE STORMWATER POLLUTION PREVENTION NOTES SHEET C500 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.
10. CONTRACTOR TO PROVIDE A STABLE TEMPORARY GRAVEL CONSTRUCTION INGRESS/EGRESS CONDITION FROM THE CONSTRUCTION SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.
11. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIOD OF ½" OF RAINFALL OR GREATER.
12. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.
13. THE 100-YEAR FLOODPLAIN/FLOODWAYS ARE NOT PRESENT ON THIS SITE.
14. PRESENCE OF HYDRIC SOILS ON THIS SITE: NONE.
15. CONTRACTOR SHALL PROVIDE THE DEPARTMENT OF BUSINESS AND NEIGHBORHOOD SERVICES OF THE CITY OF INDIANAPOLIS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE INCLUDING THE START DATES FOR EACH LAND DISTURBING ACTIVITY.
16. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.
17. DETAILS AND REQUIREMENTS OF THE CITY OF INDIANAPOLIS TECHNICAL STANDARDS MANUAL SHALL BE UTILIZED AND ADHERED TO.

INDIANA UNIVERSITY RESPONSIBLE PERSON IN CHARGE OF EROSION CONTROL:

BRETT HATCHETT
SENIOR ASSOCIATE UNIVERSITY ARCHITECT
INDIANA UNIVERSITY
HEALTH SCIENCES, SUITE 4100
1050 WISHARD BLVD.
INDIANAPOLIS, IN 46202
317-274-7771
bhatchet@iu.edu

KEY NOTES

1. SEDIMENT FILTER ROLL
2. INLET PROTECTION
3. PERMANENT SEEDING

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1-800-382-5544
– INDIANA UNDERGROUND –

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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Architect
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Structural Engineer
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317-872-8400

Mechanical / Electrical Engineer
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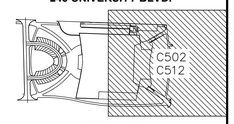

KEY PLAN

SEAL | DATE

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE
POST-CONSTRUCTION EROSION CONTROL PLAN

SHEET NUMBER
C512

PLOT DATE: 1/13/2025 2:47 PM
PLOT SCALE: 1:1
EDIT DATE: 1/13/2025
EDITED BY: JOHNMOHERY
DRAWING FILE: F:\2024\240583 IU Event Center\30 Sheet\Dwg\04.Ems Cntrl\Post Erosion Control.dwg

INDIANA UNIVERSITY RESPONSIBLE PERSON IN CHARGE OF EROSION CONTROL:
BRETT HATCHETT SENIOR ASSOCIATE UNIVERSITY ARCHITECT INDIANA UNIVERSITY HEALTH SCIENCES, SUITE 4100 1050 WISHARD BLVD. INDIANAPOLIS, IN 46202 317-274-7771 bhatchet@iu.edu

SITE STATISTICS	
TOTAL ACRES OF SITE	5.36 ACRES
TOTAL ACRES DISTURBED	5.36 ACRES
TOTAL ACRES NEW IMPERVIOUS ADDED	3.34 ACRES

THE CITY'S ON-SITE INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL METHODS

SECTION A

A1 Index of the location of required plan elements in the construction plan.

See Plan Set Title Sheet C001.

A2 A vicinity map depicting the project site location in relationship to recognizable local landmarks, towns, and major roads

See Plan Set Title Sheet C001.

A3 Narrative of the nature and purpose of the project

This project will construct the new IU Indianapolis Athletics Center and associated utility infrastructure. This will include manholes, inlets, 2 BMP Mechanical Devices, underground detention system and associated pipe.

A4 Latitude and longitude to the nearest fifteen (15) seconds of the project entrance or beginning of project for linear projects

LATTITUDE AND LONGITUDE

SW CORNER =	39°46'10.40" N	86°10'23.59" W
SE CORNER =	39°46'10.07" N	86°10'12.90" W
NW CORNER =	39°46'13.74" N	86°10'23.59" W
NE CORNER =	39°46'13.46" N	86°10'12.90" W

A5 Legal description of the project site. The description must include the legal section(s), or alternative land division(s), township and range

Refer to Overall Site Plan Sheet C200. Not to scale.

A6 Reduced plat or project site map that is submitted on a sheet or sheets no larger than eleven (11) inches by seventeen (17) inches for all phases or sections associated with this plan, lot numbers/boundaries, and road layout/name, and legend

Refer to Overall Site Plan Sheet C200. Not to scale.

A7 Boundaries of the one hundred (100) year floodplains, floodway fringes, and floodways

According to the Flood Insurance Rate Map (FIRM Map Number 18097C0143F), dated July 7, 2024, this project is not within the limits of a 100-year floodplain, floodway fringe, or floodway.

A8 Land use of all adjacent properties

North:	Institutional
East:	Commercial
South:	Industrial
West:	Industrial

A9 Identification of a U.S. EPA approved or established TMDL, including the name of the TMDL and the pollutant(s) for which there is a TMDL.

White River - PCBs in fish tissue, biological integrity.
Fall Creek - PCBs in fish tissue.

A10 Name(s) of the receiving water(s) and, when the discharge is to a system (storm sewer, stormwater management measure, etc.) owned/or operated by a municipality, city, town, or county, the name of the system operator and the ultimate receiving water

Stormwater flows into the City of Indianapolis Stormwater System & discharges to White River.

A11 Identification of discharges to a water on the current 303d list of impaired waters and the pollutant(s) for which it is impaired

White River - E. coli.

A12 Soil Properties, Characteristics, limitations and hazards

The site consists of Urban land-Fox (UfA) complex, 0 to 3 percent slopes. Runoff is rapid on the Urban Complex, and slow on the Fox series of soils. Construction and Engineering has been based on the properties and qualities of the Fox soils. Erosion could be a problem if exposed or disturbed areas where the slopes are 2 to 3% and are left bare for long periods of time. Measures to control these issues are outlined in this SWPPP, and include silt fence, inlet protection, stable construction entrance, and temporary seeding at the perimeter areas. A soil map can be found on Sheet C001.

A13 Identification and location of all known wetlands, lakes and water courses on or adjacent to the project site (construction plan, existing site layout,)

There are no wetlands on this property or associated with this project per the Wetlands Map on Sheet C521.

A14 Identification and status of any other state or federal water quality permits or authorizations that are required for construction activities and the expected timeline if the permits have not been obtained

None are known at this time.

A15 Identification and delineation of natural buffers and existing vegetative cover, such as crop or crop residue, grass, weeds, brush, and trees

The site was previously a large grass field.

A16 Existing topography at a contour interval appropriate to indicate drainage patterns

Refer to Overall Existing Topography Sheet C100.

A17 Location(s) of where run-off enters the project site

Refer to Overall Existing Topography Sheet C100. Runoff enters the site at the intersection of Wabash Street and Blackford Street.

A18 Location(s) of where run-off discharges from the project site prior to construction

Refer to Overall Existing Topography Sheet C100. Runoff leaves the site through the inlets on the site and over land at the midpoint of Ohio Street.

A19 Location of all existing structures on the project site

Refer to Overall Existing Topography Sheet C100.

A20 Location, size, and dimensions of features, such as existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management

Not applicable at this time.

A21 Locations where stormwater may be directly discharged into ground water, such as abandoned wells, sinkholes, or karst features

Refer to Overall Utility Plan Sheet C400 for information on Underground Detention Basin design.

A22 Size of the project area expressed in acres

The project site is 5.36 Acres.

A23 Total expected land disturbance expressed in acres

The expected land disturbance is 5.36 Acres.

A24 Proposed topography

See Grading Plan Sheets C300 - C302

A25 Delineation of all proposed land-disturbing activities, including known off-site activities that will provide services to the project site

Refer to Site Plan Sheets C200 - C202 and Erosion Control Sheets C500-C502

A26 Location, size, and dimensions of all stormwater drainage systems, such as culverts, storm sewers, and conveyance channels

See Storm Sewer Plan & Profile sheets C410 - C414

A27 Locations of specific points where stormwater and non-stormwater discharges will leave the project site

See Utility Plan sheets C400 - C402. Stormwater will discharge into storm trunk line in Ohio Street. Non-Stormwater discharges will also leave the site through a trunk line in Ohio Street.

A28 Location of all proposed site improvements, including roads, utilities, lot delineation and identification, proposed structures, and common areas

See Site Plan Sheets C200 - C202, Utility Plan Sheets C400 - C402 and Landscape Architecture sheets.

A29 Location of all on-site soil stockpiles and borrow areas and, when known at the time of submittal, the location of all off-site borrow, soil stockpiles, and disposal areas

This project will install the excess stockpile area on the west side of the site, as shown on Erosion Control Sheets C500 & C501. No offsite borrow is needed at this time.

A30 Construction support activities that are expected to be part of the project (e.g., staging areas, disposal sites, etc.)

Staging areas are located at the southwest edge of the site and are identified on Erosion Control Sheets C500 & C501.

A31 Location of any in-stream activities that are planned for the project including, but not limited to stream crossings and pump arounds

No streams crossings are included in this project.

SECTION B

B1 Description of the potential pollutant generating sources and pollutants, including all potential non-stormwater discharges where applicable, Items in 2 through 10 below will be evaluated for Location, dimensions, detailed specifications, and construction details

Expected pollutants to stormwater during construction can be but not limited to: Excess sediment, organic materials such as leaves and twigs, excess fuel, brake dust and trash. The concrete washout will be carefully controlled. The project will utilize silt fence, drop inlet protection and temporary seeding to reduce the discharge of pollutants.

B2 Stable construction entrance locations and specifications (at all points of ingress and egress)

The Stable Construction Entrance will be installed on the west side of the site entering from Wabash Street. The drive will be a minimum of 150' long, and 20' wide, and be constructed of INDOT Type No 2 Stone. It shall meet the requirements of the City of Indianapolis Stormwater Manual Section 603.05.

B3 Specifications for temporary and permanent stabilization

Temporary surface stabilization shall be done if an area has exposed and is dormant for more than seven (7) days in accordance with Indiana Department of Environmental Management Stormwater Quality Manual. All disturbed areas that require temporary cover during construction activities shall be stabilized with mulching alone from November 1 to March 1. Spring Mix shall be used from March 1 through May 15, and shall be applied at the rate of 3 bushels/acre. Spring Mix shall consist of oats. Fall mix shall be utilized from August 1 through November 1, and shall be applied at the rate of 2 Bushels/Acre. Fall mix shall consist of wheat or rye. Annual Ryegrass shall be applied at the raye of 1 lb/1000 Sq Feet between April 15 and September 15. Permanent stabilization methods, including sequencing information, application rates for soil amendments and seed mixtures and the type and application rates for soil amendments will be included on the landscape plans.

B4 Sediment control measures for concentrated flow areas

Temporary Erosion Control; for concentrated sheet flow areas include but are not limited perimeter protection and inlet protection. Silt fence will be placed along Blackford Street, Ohio Street, and Wabash Street. Silt Fence shall meet the requirements of 603.06 of the City of Indianapolis Stormwater Manual. Straw Bales WILL NOT be allowed as a means of perimeter protection. Inlet protection will be placed along the same streets listed above.

B5 Sediment control measures for sheet flow areas

We do not anticipate Sheet Flow areas on this site, as 95% of the project will be the excavated areas.

B6 Run-off control measures (e.g., diversions, rock check dams, swales, etc.)

We do not anticipate Sheet Flow areas on this site, as 95% of the project will be the excavated areas.

B7 Stormwater outlet protection locations and specifications

Stormwater inlet protection measures will be placed at the perimeter of the site. These inlets are along Blackford Street, Ohio Street, and Wabash Street. All new storm inlets proposed in this plan set shall also be required to have inlet protection. Storm Inlet protection shall meet the requirements of 603.07 of the City of Indianapolis Stormwater Manual.

B8 Grade stabilization structure locations and specifications

An erosion control blanket will be required for grading slopes greater than 6:1. These are shown on Erosion Control Sheets C500 - C502.

B9 Dewatering applications and management methods (basin outlet measures, flocculants etc.)

Dewatering may be required during the excavation of the lower arena level. The water at the base of the excavation will be collected within a "pit". The pit is to be lined with filter fabric, and No. 2 Stone. The collected water will be pumped out to a filter bag. The filter bag will then discharge into the City's Storm System. Dewatering shall meet the requirements of 603.19 of the City of Indianapolis Stormwater Manual.

B10 Measures utilized for work within waterbodies (crossings, coffer dams, etc.)

Not applicable for this project

B11 Maintenance guidelines for each proposed temporary stormwater quality measure

All proposed pollution prevention measures shall be inspected for deficiencies by a trained professional at least weekly, and again after each ½" or greater rain event. Inspection reports must be signed, dated and kept on file. Upon completion of project, inspection reports must be submitted to owner.

The following guidelines shall be followed for maintain the following pollution prevention measures:

Perimeter Protection:

1. If perimeter protection becomes breached, starts to decompose, or in any way become ineffective, replace the affected portion immediately.
2. Remove deposited sediment when it reaches half the height of the perimeter protection at its lowest point, or is causing the perimeter protection to bulge.
3. Take care to avoid undermine the perimeter protection during clean out.
4. After the contributing drainage area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade and stabilize.

Temporary Seeding

1. Inspect periodically after planting to see that vegetative stands are adequately established. Re-seed if necessary.
2. Check for erosion damage after storm events and repair; re-seed and mulch if necessary.
3. Top dress fall seeded wheat seedlings with 50 lbs./acre of nitrogen in February or March if nitrogen deficiency is apparent.

Inlet Protection

1. Place geotextile filter fabric when they become three quarters full, or when the sediment impedes the passage of stormwater into the system.
2. Inlet protections shall be inspected and cleaned after every rain event, or at least once a week.

B12 Planned construction sequence describing the relationship between implementation of stormwater quality measures and temporary/permanent stabilization measures in relation to land disturbance

PRE-CONSTRUCTION ACTIVITIES:

1. Call the Indiana Underground Plant Protection System, Inc. ("Holy Moley") at 811 to check the locations of any existing utilities. They should be notified two working days before construction takes place.
2. Establish onsite locations for Owner/Operator/Contractor placement of approved plans and erosion control measure inspection documents.

The Contractor shall be responsible for inspecting the surrounding streets on a daily basis to ensure that visible construction pollutants are not present. If construction pollutants are present, the Contractor shall remove them immediately.

CONSTRUCTION ACTIVITIES:

1. Install appropriate perimeter protection and inlet protection while work is being performed in the area. These erosion control measures are to be installed as indicated on Erosion Control plan sheets C500 - C512.

2. Once all permanent surface stabilization is established, temporary erosion control measures shall be removed.

B13 Provisions for erosion and sediment control on individual building lots regulated under this project

N/A

B14 Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2-6.1

PURPOSE:

The intention of this spill prevention, control and countermeasures plan (SPCCP) is to establish the procedures and equipment required to prevent their discharge to stormwater. The plan established the activities required should such occur.

Definitions:

Pollutant: Means pollutant of any kind or in any form, including but not limited to: Sediment, paint, cleaning agents, concrete washout, pesticides, nutrients, trash with waste other than dredged soil.

Discharge: Includes but is not limited to: Any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

Plan Review and Amendments: This plan shall be reviewed and/or amended, if necessary, whenever there is a change in the design of the site, construction, operation, or maintenance which materially affects the site potential for the discharge of regulated material.

Prediction of Potential Spills

1. Drainage System: No drainage systems shall be installed at this time.
2. Possible spill sources (During and Post Construction):
   a. Vehicular sources such as leaking fuel or oil, brake fluid, grease, antifreeze, construction trash and debris, biological agents found in trash and fertilizers, household items including but not limited to: cleaning agents, chemicals, paint, herbicides and pesticides.
   b. Groundwater Contamination: This project maintains no above ground or underground storage tanks on this site. Therefore, it is believed that there is little or no possibility of post construction groundwater contamination.

ALERT PROCEDURES FOR SPILLS

1. Any personnel observing a spill will immediately initiate the following procedure:
2. Dial 911 from any telephone and notify the appropriate emergency personnel.
3. The Contractor's designated Emergency Coordinator will them take the following actions:
4. Barricade the area, allow no vehicles to enter or leave the spill zone, and contain the spill.

Notify the Indiana Department of Environmental Management, Office of Emergency Response (IDEM-OER) by calling either of the following telephone numbers:

Office:	1-317-233-7745
Toll Free:	1-800-233-7745

Notify waste recovery contractor, maintenance personnel, or other contractual personnel necessary for cleanup.

Coordinate and monitor cleanup until the situation has been stabilized and spills have been eliminated.

Cooperate with the IDEM-OER on procedure reports involved with the event.

CLEANUP PARAMETERS

1. The Contractor shall maintain lists of readily available personnel, Vac-Trucks, tank pumpers and other equipment readily accessible for cleanup operations. In addition, a continually updated list of available absorbent material clean-up supplies shall be maintained onsite.
2. All construction personnel will be made aware of techniques for prevention of spills. They shall be informed of the requirements and procedures outlined in this plan. They shall be kept abreast of current developments or new information on the prevention of spills and/or necessary alterations of this plan.
3. When spill occur, which could endanger human life, the responsibility of protection and cleanup will be carried out by the local police and fire department.
4. Absorbent materials, which are used in cleaning up spilled materials, will be disposed of in a manner subject to the approval of the Indiana Department of Environmental Management.
5. Flushing of spilled material with water will not be permitted unless so authorized by the Indiana Department of Environmental Management.

B15 Material handling and storage procedures associated with construction activity describing the management and disposal of construction products and waste, including concrete and cementitious washout areas and management measures

This project will haul off excavated material daily. Concrete waste and washout shall be hauled off as needed to prevent discharge to site.

SECTION C

C1 Description of potential pollutant generating sources and a list of pollutants from the final land use that may reasonably be expected to contribute pollutants to stormwater discharges

Potential pollutants include the fueling of lawn mowing machinery and vegetation waste from proposed plants.

C2 Description of stormwater quality and stormwater management measures that will be installed to address postconstruction sources that are expected to generate pollutants in stormwater discharges and increased run-off after construction activities have been completed

The site will be guarded so that flows are directed to the storm drainage system. Stormwater will be filtered by two Aqua-Swirl Mechanical BMP Devices. Areas outside of hard surface sidewalks will be planted with grass, shrubs, and plants. Stormwater will be collected into an underground detention system and released at an approved rate.

C3 Location, dimensions, detailed specifications, and construction details of all post-construction stormwater quality and stormwater management measures listed in C2 above

The proposed seeding areas will occur at the perimeter of the site. See sheets C511 - C512 and Landscaping plans for soil and planting details. See Utility Plan C401 & Structure Data Table C403 for location of the Water Quality Units. Two Contech Cascade CS-5 Units will filter the stormwater from the site. Stormwater will be collected into a Contech underground detention system and released at an approved rate.

C4 Sequence describing when each post-construction stormwater measure will be installed in relation to project construction activities including how post-construction measures will be protected from impacts if the measure is installed during active construction/land disturbance

The Contractor should follow the sequencing below:

1. Mechanical BMP shall be inspected at periodic intervals. At a minimum it shall be inspected every 3 months until vegetation has been established.
2. Underground Detention shall be installed, with no flows being directed to it until the Mechanical BMPs are installed.
3. Vegetation shall be monitored and replaced if bare spots are found. A uniform cover of 70% perennial vegetation is required.
4. The contractor shall remove temporary measures.
5. Erosion and Sediment control practices for the proposed project will need to be installed and maintained during the course of construction.
6. Stormwater pollution prevention practices should be reviewed and maintained as needed to keep them effective. Sediments will be removed from sediment control practices and inlets after the site is permanently stabilized.
7. Review all disturbed areas for final stabilization. A uniform cover of 70% perennial vegetation is required.
8. The Contractor will remove the temporary erosion or sediment control practices as the vegetative cover for each practice is permanently stabilized.

C5 Operation and maintenance manual for each post-construction stormwater measure (manufactured/proprietary measures may include a link to the manual for a specific measure that will be used on the project)

The owner will follow the O&M Manual submitted for this project. Plantings and grasses will be maintained and mowed, trash will be picked up, Contech Cascade Stormwater Quality Units will be checked periodically and cleaned when appropriate. Underground Detention system shall be inspected and cleaned when appropriate.

C6 Entity that will be responsible for operation and maintenance of the post-construction system (if known)

IU Indianapolis Athletics Center shall maintain this facility upon completion. Question can be directed to:

BRETT HATCHETT
Senior Associate University Architect
Indiana University
Health Sciences, Suite 4100
1050 Wishard Blvd.
Indianapolis, IN 46202
317-274-7771
bhatchet@iu.edu

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
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IU Project NO. 20240127

Owner
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Architect
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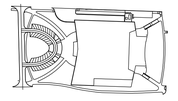

N

KEY PLAN

SEAL | DATE

APPROVAL PENDING
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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE
SWPPP

SHEET NUMBER
C520

PLOT DATE: 1/13/2025 2:47 PM
PLOT SCALE: 1:1 EDIT DATE: 1/13/2025
EDITED BY: JOHNMOWERY
DRAWING FILE: F:\2024\240583.IU Event Center\03 Sheet\Swp3\Ph4\Erosion Cont\SWPPP.dwg

U.S. Fish and Wildlife Service

National Wetlands Inventory

IU Indy Convocation Center



August 5, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

GENERAL NOTES:

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CALL TOLL FREE
"811" OR 1-800-382-5544
– INDIANA UNDERGROUND –

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Plumbing Engineer
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972-934-3700

Civil Engineer
AMERICAN STRUCTUREPOINT, INC.
9025 RIVER ROAD
SUITE 200
INDIANAPOLIS, IN 46240
317-547-5580

Food Service Consultant
CINILITTLE
3405 NW 9TH AVENUE #1202
FORT LAUDERDALE, FL 33309
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FORZA
2502 WEST MECHANIC ST, SUITE C
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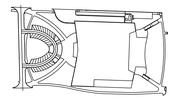
816-806-3729

245 UNIVERSITY BLVD.



KEY PLAN

SEAL | DATE

APPROVAL PENDING
NOT FOR CONSTRUCTION
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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE
WETLANDS MAP

SHEET NUMBER
C521

PLOT DATE: 1/13/2025 2:47 PM
PLOT SCALE: 1:1 EDIT DATE: 1/13/2025
EDITED BY: JOHNMOWERY
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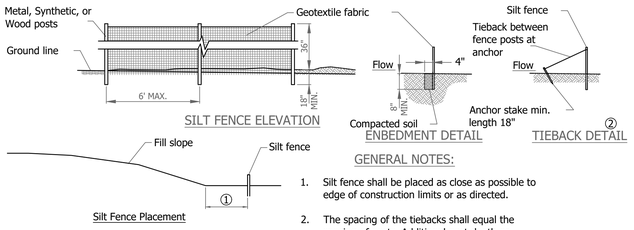
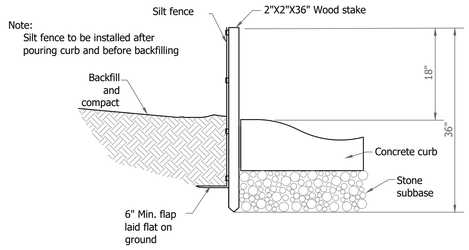


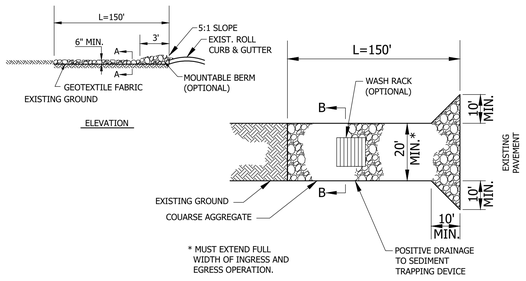
GENERAL NOTES:

1. Silt fence shall be placed as close as possible to edge of construction limits or as directed.
2. The spacing of the tiebacks shall equal the spacing of posts. Additional post depth or tiebacks maybe be required in unstable soils.

1 Silt Fence Detail
Scale: N/A



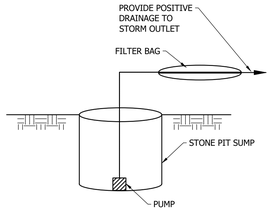
2 Back of Curb Silt Fence Installation Detail
Scale: N/A



NOTES:

1. GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
2. ROCK OR RECLAIMED CONCRETE SHALL MEET THE FOLLOWING INDOT COURSE AGGREGATE GRADATION CA-2.
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
5. IF THE WASH RACK IS NOT CONSTRUCTED AS PART OF THE STABILIZED CONSTRUCTION ENTRANCE, THEN THE CONTRACTOR SHALL ESTABLISH AN ALTERNATIVE WASHOUT AREA AND SUBMIT THAT LOCATION TO THE NECESSARY REGULATORY AGENCIES FOR APPROVAL.

3 STABILIZED CONSTRUCTION ENTRANCE
NTS

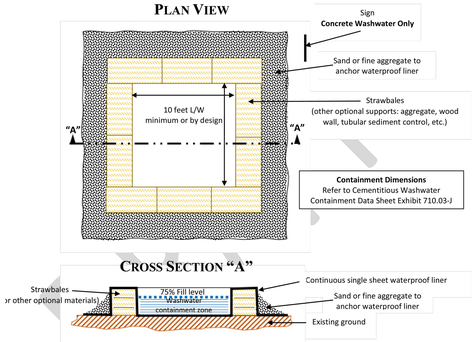


4 DEWATERING DETAIL
NTS

710.03 Concrete and Cementitious Washwater Management

Exhibit 710.03-H

ABOVE GRADE CEMENTITIOUS WASHWATER CONTAINMENT
TYPICAL PRACTICE DIAGRAM
(NOT TO SCALE)



Waterproof lining (options):

- Commonly used: polyethylene sheeting a minimum thickness: 10 mil (0.254 mm or 0.01 inch).
- Must be durable, resistant to washwater chemistry (high pH), weathering or deterioration for the anticipated length of use time and until the washwater can be removed for treatment or recycling or until the fluids can evaporate and harden.
- Must be free of defects, holes, rips or tears.
- Containment lining must be a single continuous sheet sufficient to adequately line the entire containment. Avoid the need for seaming or joining of sheets but where required joining of sheets shall be only be accomplished according to the manufacturer's requirements.

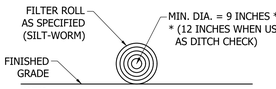
Note: The illustrations in this exhibit are not intended to serve as construction drawings. The diagrams are to be used to communicate the concepts for implementation of this control measure.

Source: IDEM file

5 CONCRETE WASHOUT DETAILS
NTS

6 INLET PROTECTION - TYPE 1
NTS

7 INLET PROTECTION - TYPE 2
NTS

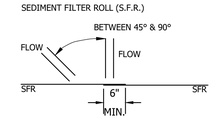


NOTES
MAINTENANCE OF FILTER ROLL PER MANUFACTURER'S RECOMMENDATIONS.

SEDIMENT FILTER ROLL DETAIL

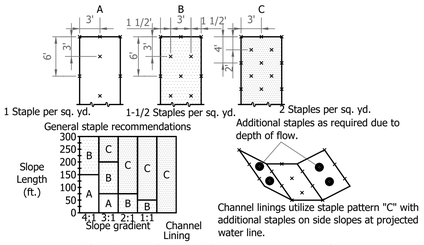
SEDIMENT FILTER ROLL

1. SEDIMENT FILTER ROLL IS A CYLINDRICAL EROSION CONTROL DEVICE USED FOR SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION AND DITCH CHECKS.
2. SEDIMENT FILTER ROLL SHALL BE PLACED ALONG THE CONTOURS WHEREVER POSSIBLE, BUT SHALL BE INSTALLED BETWEEN 45 AND 90 DEGREES FROM THE DIRECTION OF FLOW.
3. OVERLAP SIX (6) INCHES, MINIMUM, BETWEEN PIECES, SHINGLED IN THE DIRECTION OF FLOW.
4. THERE ARE NO TRENCHING REQUIREMENTS FOR SEDIMENT FILTER ROLLS.
5. WHEN SEDIMENT ACCUMULATION UPSTREAM OF SEDIMENT FILTER ROLL BECOMES AT LEAST 1/2 THE HEIGHT OF THE ROLL, SEDIMENT SHALL BE REMOVED AND DISPOSED OF PROPERLY.



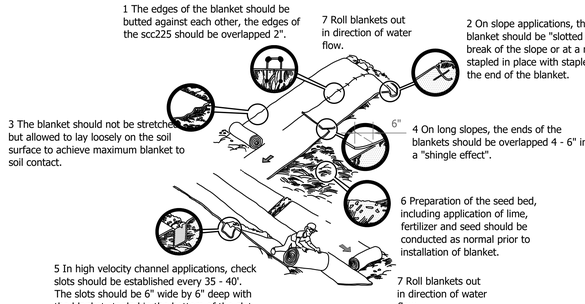
SEDIMENT FILTER ROLL INSTALLATION DETAIL

8 SEDIMENT FILTER ROLL DETAIL
NTS



staple patterns apply to all North American erosion control blankets. Staple patterns may vary depending upon soil type and average annual rainfall.

At slope lengths greater than 300 feet or where drainage over large areas is directed onto the blankets, staple pattern "c" should be utilized.



9 Erosion Blanket Installation
Scale: N/A

INDIANA UNIVERSITY RESPONSIBLE PERSON IN CHARGE OF EROSION CONTROL:

BRETT HATCHETT
SENIOR ASSOCIATE UNIVERSITY ARCHITECT
INDIANA UNIVERSITY
HEALTH SCIENCES, SUITE 4100
1050 WISHARD BLVD.
INDIANAPOLIS, IN 46202
317-274-7771
bhatchet@iu.edu

EROSION CONTROL NOTES:

1. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH CHAPTER 600 OF THE CITY OF INDIANAPOLIS STORMWATER DESIGN AND SPECIFICATIONS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS SET FORTH IN THE MANUAL.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY IDEM, MCSW, AND/OR THE CITY INSPECTOR.
3. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.
4. DETAILS AND REQUIREMENTS OF THE CITY OF INDIANAPOLIS TECHNICAL STANDARDS MANUAL SHALL BE UTILIZED AND ADHERED TO.

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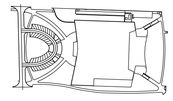

N

KEY PLAN

SEAL | DATE

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ASI PROJECT NO. 23112.000

SHEET TITLE
EROSION CONTROL DETAILS

SHEET NUMBER
C530

PLOT DATE: 1/13/2025 2:48 PM
PLOT SCALE: 1:1 EDIT DATE: 1/13/2025
EDITED BY: JOHNMOWERY
DRAWING FILE: F:\2024\240568\5 IU\1 Event Center\03 Sheet\Dwg\04-Ecos Cntrl\Pre Erosion Control.dwg

(1) TEMPORARY SEEDING

Table 1. Seeding Specifications

Seed Species	Rate per Acre	Planting Depth	Optimum Dates
Wheat or Rye	150 Lbs.	1 to 1-½ inches	Sept 15 – Oct 30
Spring Oats	100 Lbs.	1 inch	March 1 – April 15
Annual Ryegrass	40 Lbs.	1-1/4 inch	March 1 – May 1 Aug 1 – Sept 1

1. Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year. (See Permanent Seeding)
2. Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

Notes: Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding provided that it is appropriately anchored. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts and channels and in areas of concentrated flow.

Application:

Seedbed Preparation

1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
3. Work the soil amendments into the upper two to four inches of the soil with a disk or rake operated across the slope.

Seeding

1. Select a seed species or an appropriate seed mixture from Table 1.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover seed to the depth shown in Table 1.

Notes:

1. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. Daily seeding when the soil is moist is usually most effective.
2. If seeding is done with a hydro seeder, fertilizer or mulch can be applied with in a slurry mixture.
3. Apply mulch (See Mulching and Compost Mulching Requirements Below) and anchor it in place.

Maintenance

Inspect within 24 hours of each rain event and at least once every seven calendar days. Monitor for erosion or movement of mulch and repair immediately. Monitor for erosion damage and adequate cover (80 percent density); reseed, fertilize, and apply mulch where necessary. If nitrogen deficiency is

apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

(2) PERMANENT SEEDING

Application

Site Preparation

1. Grade the site to achieve positive drainage.
2. Add topsoil or compost mulch to achieve needed depth for the establishment of vegetation (Compost material may be added to improve soil moisture loading capacity, soil friability, and nutrient availability.

Seedbed Preparation

1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
3. Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.

Seeding

Optimum seeding date are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can easily be accomplished if the soil surface remains covered with mulch.

1. Use the seeding and mixture rate from Table 1 Permanent Seeding Recommendations. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations (If seeding is done with a hydro seeder fertilizer and mulch can be applied with the seed in a slurry mixture).
3. Mulch all seeded areas and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels.

Maintenance

Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.

Characteristics of a successful stand include vigorous dark green or bluish green seedlings with a uniform vegetative cover density of 90% or more.

Check for erosion or movement o mulch.

Repair damaged, bore gullied, or sparsely vegetated areas and then fertilize, reseed and apply and anchor mulch.

If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas.

If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your Soil and Water Conservation District or Cooperative Extension Office for assistance).

If additional fertilizer is needed to get a satisfactory stand, do so according to the soil test recommendations.

Add fertilizer to the following growing season. Fertilize according to soil test recommendations.

Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third of the fertilizer in early spring, one-third on late spring, and the remaining one-third in middle summer.

Table 1 – Permanent Seeding Recommendations

Typical Lawn Seed: Provide fresh, clean, new crop seed complying with tolerance for purity and germination established by Official Seed Analysts of North America. Provide seed mixture composed of grass species, proportions, and minimum percentages of 95% purity, 95% germination, and maximum percentage of 0.5% weed seed per the chart below.

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. 80%/20% blend Kentucky Bluegrass Perennial Ryegrass	25Lbs. 5 Lbs.	5.5 to 7.5
2. Tall Fescue *(turf type)2- Mustang II	170 Lbs.	5.6 to 7.5
TOTAL	200 Lbs.	

Table 2 Temporary Nurse Crop for use with Permanent Seed

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Avina sative (seed oats)	32 lbs.	
2. Lolium multiflorum (Annual Rye Grass)	5 lbs.	

TOTAL	37 lbs.		

(3) MULCHING

Specifications

Materials

Table 1 Mulch Specifications

Material	Rate per Acre	Comments
Straw or Hay	2 Tons	Shall be dry, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (See Table 2)
Wood Fiber or Cellulose	1 Ton	Apply with a hydraulic much machine and use with tacking agent.

1. Mulching is not recommended in concentrated flow areas. Consider erosion control blankets or other stabilization methods.
2. Coverage
3. The Mulch shall have a uniform density of at least 75% over the soil surface.

Anchoring

Table 2 – Mulch Anchoring Methods

Anchoring Method	How to Apply
Mulch Anchoring Tool or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate the machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats
Wood hydro mulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.
Netting (Synthetic or biodegradable materials)	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up-slope strip overlapping four to six inches over the adjacent down-slope strip. Best suited to slope applications in most instances, installation details are specific, so manufacturer's recommendations should be followed.

1. All forms of mulch must be anchored to prevent displacement by wind and/or water

Application

1. Apply mulch at the recommended rate as shown in Table 1.
2. Spread mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine. After spreading, no more than 25 percent of the ground should be visible.
3. Anchor straw or mulch immediately after application. The mulch can be anchored using one of the methods below:
   a. Crimp with a mulch anchoring tool, a weighted form disk with dull serrated blades set straight, or track cleats of a bulldozer.
   b. Apply hydraulic mulch with short cellulose fibers.
   c. Apply a liquid tackifier, or
   d. Cover with netting secured by staples.

Maintenance

- Inspect within 24 hours of each rain event and at least once every seven calendar days
- Check for erosion or movement of mulch; repair damaged areas, reseed, apply new mulch, and anchor mulch in place.
- Continue inspections until vegetation is firmly established.
- If erosion is severe or recurring, use erosion control blankets or other more substantial stabilization methods to protect the area.

(4) COMPOST MULCHING

Compost Specifications

- Feedstocks may include but are not limited to well-composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A Biosolids (as defined in Title 40 of the Code of Federal Regulations at 40 CFR Part 503), or any combination thereof.
- Compost shall be produced using an aerobic composting process meeting 40 CFT Part 503 regulations, including time and temperature data indicating effective weed seed, pathogen, and insect larvae kill.
- Compost shall be well decomposed, stable, and weed free.
- Refuse free (less than 1% by weight).
- Free of any contaminants and materials toxic to plant growth.
- Inert materials not to exceed one percent by dry weight, pH of 5.5 to 8.0
- Carbon-nitrogen ratio not to exceed 100.
- Moisture content not to exceed 45 percent by dry weight.
- Variable particle size with maximum dimensions of three inches in length, one-half inch in width and one-half inch in depth.

Table 1 Compost Particle Size

Percent Passing Sieve Size			
2-Inch Sieve	1-Inch Sieve	¼ - Inch Sieve	> ¼ - Inch Sieve

   b. Overlap top of slope shoulder by five to 10 feet.
   c. Seed may be applied at time of installation. (Seed must be evenly blended into the compost if applied with a pneumatic blower or applied with a calibrated seeder attachment prior to installation of the compost blanket.)
6. Water compost mulch blanket for a period of 60 days following application. (On steeper slopes it may be necessary to install erosion control netting over the compost blanket)
   a. Mist blanket for first seven days and then every three days throughout the remainder of the 60-day period.
   b. Maintain a constant moisture content of 40 to 60 percent.

Maintenance

- Inspect within 24 hours of a rain event and at least once every seven calendar days.
- Repair all eroded areas
- Reseed, if applicable
- Monitor vegetation and apply appropriate soil amendments (if needed) per a soil test.

100%	99%	90%	25%

Bonding Agents (Optional)

Tacicifiers, flocculants, or microbial additives may be used to remove sediments and/or additional pollutants from storm water runoff. (All additives may be combined with compost materials should be tested for physical results of a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance approved testing laboratory)

Soil Material (optional)

Five percent to ten percent sandy loam (as classified by the U.S. Department of Agriculture soil classification system).

Cover Daily

Ninety percent or greater over the soil surface

Anchoring Method

- Moisten compost/mulch blanket for a minimum of 60 days.
- Erosion control netting (optional)

Cover Thickness

Table 2 Compost Blanket Thickness

Slope		Thickness of Compost Blanket	Thickness of Compost Blanket with Erosion Control Netting
< 25%	< 4:1	1 to 2 Inches	Not Applicable
25% to 50%	4:1 to 2:1	1 to 2 Inches	2 Inches
>50%	> 2:1	2 to 3 Inches	3 Inches

Application

1. Remove existing vegetation, large soil clods, rocks, stumps, large roots, and debris in areas where compost mulch is to be applied and dispose of in designated areas.
2. Scarify sloping areas.
3. Aerate areas to be covered with compost /mulch blanket. (Proper aeration will require a minimum of two passes oriented in opposite directions)
4. Broadcast a minimum of one pound of nitrogen (N), one-half pound of phosphorous (P205), and one-half pound of potash ((K20) per 1,000 square feet or 300 to 400 pounds per acre of 12-12-12 analysis fertilizer, or equivalent per acre.
5. Apply compost mulch blanket with a pneumatic blower per manufacturer's directions.
   a. Apply with three days of completing aeration operations.

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1-800-382-5544
INDIANA UNDERGROUND

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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2901 EAST DISCOVERY PARKWAY
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3535 EAST 96TH STREET
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Civil Engineer
AMERICAN STRUCTUREPOINT, INC.
9025 RIVER ROAD
SUITE 200
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Food Service Consultant
CINILITTLE
3405 NW 9TH AVENUE #1202
FORT LAUDERDALE, FL 33309
954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

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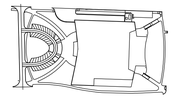

N

KEY PLAN

SEAL | DATE

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE

EROSION CONTROL SPECIFICATIONS

SHEET NUMBER

C531

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PLOT SCALE: 1:1.008
EDIT DATE: 1/13/2025
EDITED BY: JOHNMOHERY
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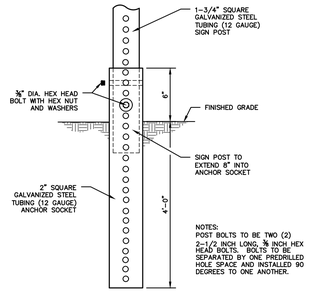
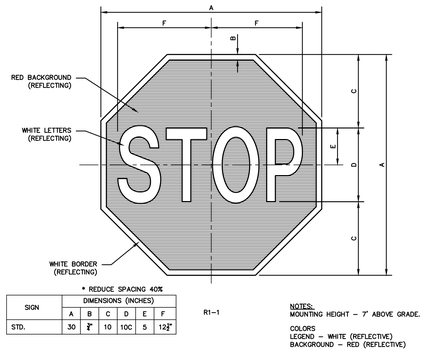


BREAKAWAY POST DETAIL
NOT TO SCALE (REV. 01/17)



ADA ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE (REV. 01/17)



* REDUCE SPACING 40%

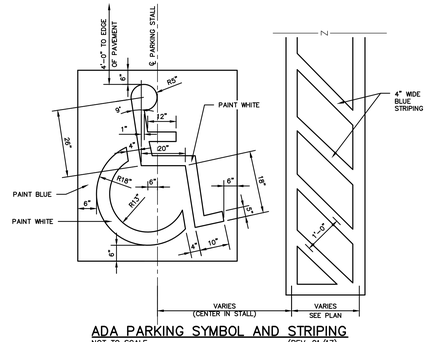
SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
STD.	30	2*	10	10C	5	12*

R1-1

NOTES:
MOUNTING HEIGHT – 7' ABOVE GRADE.

COLORS
LEGEND – WHITE (REFLECTIVE)
BACKGROUND – RED (REFLECTIVE)

STOP SIGN DETAIL
NOT TO SCALE (REV. 05/18)



ADA PARKING SYMBOL AND STRIPING
NOT TO SCALE (REV. 01/17)

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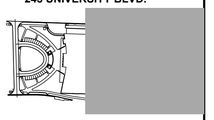

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ASI PROJECT NO. 23112.000

SHEET TITLE

SITE DETAILS

SHEET NUMBER

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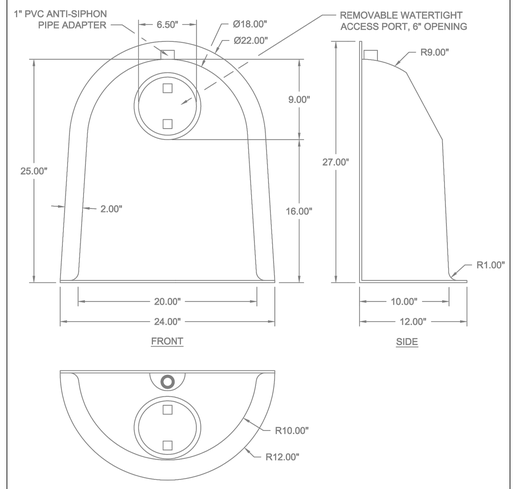
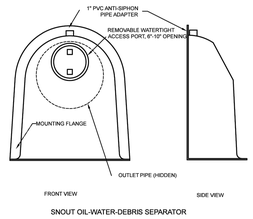


US PATENT #6126817ADDITIONAL PATENTS PENDING

BMP, INC.
53 MT. ARCHER ROAD, LYME, CT. 06371
(800) 504-8008 FAX: (860)434-3195

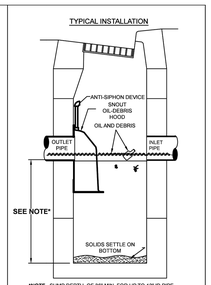
DESCRIPTION	DATE	SCALE
18F SNOUT OIL & DEBRIS STOP	09/14/99	NONE
	DRAWING NUMBER 18F	

CONFIGURATION DETAIL



SNOUT OIL-WATER-DEBRIS SEPARATOR

TYPICAL INSTALLATION



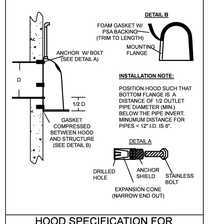
*NOTE- SUMP DEPTH 0F 36" MIN. FOR UP TO 12" ID PIPE. OUTLET: FOR PIPES 15" ID AND ABOVE SUMP DEPTH OF 2.5 TO 3 TIMES PIPE ID RECOMMENDED (E.G. 5' DEEP for 24" PIPE)

NOTES:

1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 9 MATHEWS DRIVE. UNIT A1-A2. EAST HADDAM, CT 06423 TOLL FREE: (800) 504-8008 OR (888) 434-0277, FAX: (877) 434-3197 WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM O.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
8. ALL STRUCTURE JOINTS SHALL BE WATERTIGHT.
9. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH ⅜" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
10. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
    A. INSTALLATION INSTRUCTIONS
    B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
    C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
    D. 3/8" STAINLESS STEEL BOLTS
    E. ANCHOR SHIELDS

US Patent # 6126817, 7951294, 7857966, 8512556
Canada Patent # 2285146, 2690156, 2690156 others pending

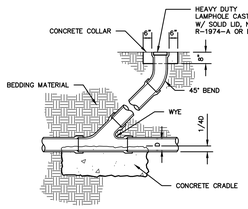
INSTALLATION DETAIL



INSTALLATION NOTE:
POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINIMUM DISTANCE FOR PIPES < 12" I.D. IS 6".

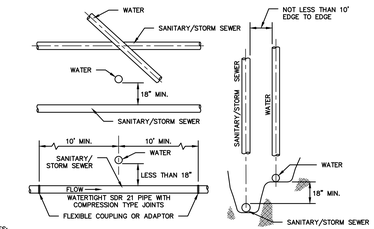
HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES

DESCRIPTION	DATE	SCALE
OIL- DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)	09/08/18	NONE
	DRAWING NUMBER SP-SN	



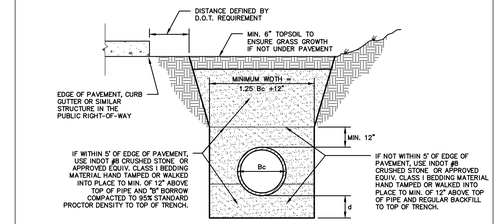
NOTE:
BEDDING MATERIAL TO BE IN ACCORDANCE WITH PLASTIC PIPE (PVC AND HDPE) BEDDING DETAIL.

CLEANOUT DETAIL
NOT TO SCALE (REV. 01/17)



NOTES:
1. WHEN LATERAL SEPARATION IS 10' OR GREATER NO VERTICAL CLEARANCE IS NEEDED
2. ALL CROSSINGS AND SEPARATIONS TO BE 327 IAC, ARTICLES 3 & 8
3. WHEN HORIZONTAL SEPARATION IS LESS THAN 10' OR VERTICAL SEPARATION IS LESS THAN 18", SANITARY PIPE MUST BE WATERTIGHT SDR 21 WITH COMPRESSION TYPE JOINTS.
4. CONTRACTOR SHALL VERIFY THAT MORE STRINGENT SEPARATION REQUIREMENTS DO NOT EXIST WITH THE JURISDICTIONAL WATER UTILITY. IF THEY DO EXIST, CONTRACTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENTS.

MIN CROSSOVER & SEPARATION REQUIREMENTS FOR WATER & SANITARY/STORM SEWERS
NOT TO SCALE (REV. 01/17)

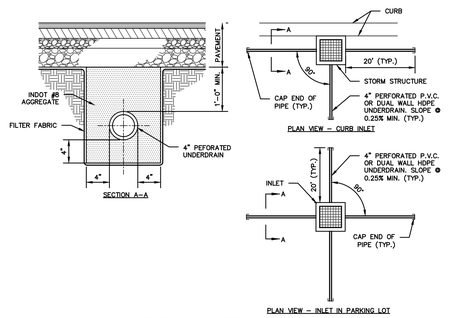


LEGEND
Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

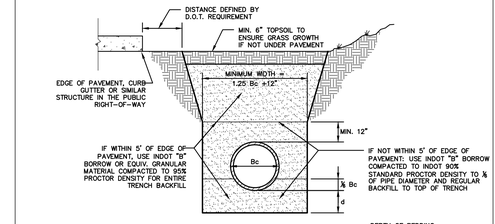
NOTE:
ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	d (MIN)
27" & SMALLER	4"
30" TO 60"	4"
66" & LARGER	4"

PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL
NOT TO SCALE (REV. 12/17)



PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE (REV. 07/18)



LEGEND
Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

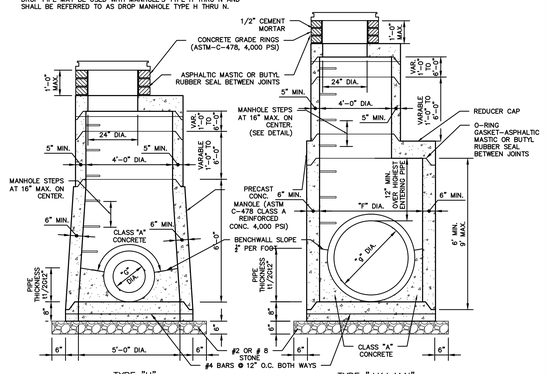
NOTE:
ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	d (MIN)
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

REINFORCED CONCRETE PIPE (RCP) BEDDING DETAIL
NOT TO SCALE (REV. 12/17)

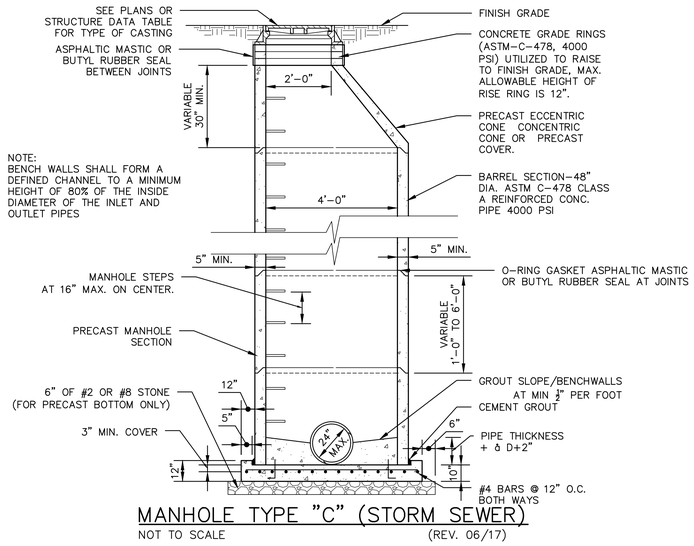
MANHOLE				
TYPE	"C"	"r"	MAXIMUM PIPE SIZE RT. ANGLE TO MAINLINE	MAXIMUM PIPE SIZE FOR MAINLINE
H	24"to36"		30"	36"
J	24"to36"	60"	33"	36"
K	36"x48"	72"	36"	48"
L	48"x54"	96"	48"	54"
M	54"x72"	102"	66"	72"
N	72"x84"	108"	72"	84"

NOTES:
DROP PIPE MAY BE USED WITH MANHOLE'S TYPE H THRU N AND SHALL BE REFERRED TO AS DROP MANHOLE TYPE H THRU N.



NOTE: BENCH WALLS SHALL FORM A DEFINED CHANNEL TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES

MANHOLES TYPE "H,J,K,L,M & N" DETAIL
NOT TO SCALE (REV. 06/17)



NOTE:
BENCH WALLS SHALL FORM A DEFINED CHANNEL TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES

MANHOLE TYPE "C" (STORM SEWER)
NOT TO SCALE (REV. 06/17)

FOR REFERENCE ONLY NOT FOR CONSTRUCTION

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ASI PROJECT NO. 23112.000

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C601

PLOT DATE: 1/24/2025 5:00 PM
PLOT SCALE: 1:1.008
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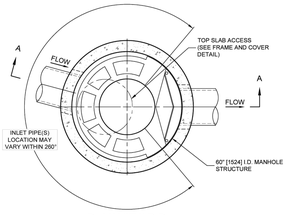
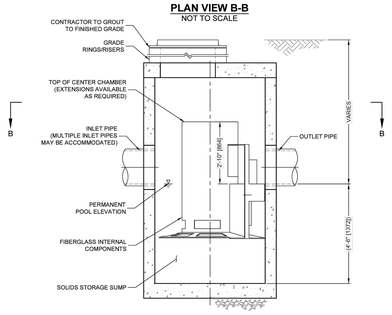


PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

CASCADE separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES



FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE, www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

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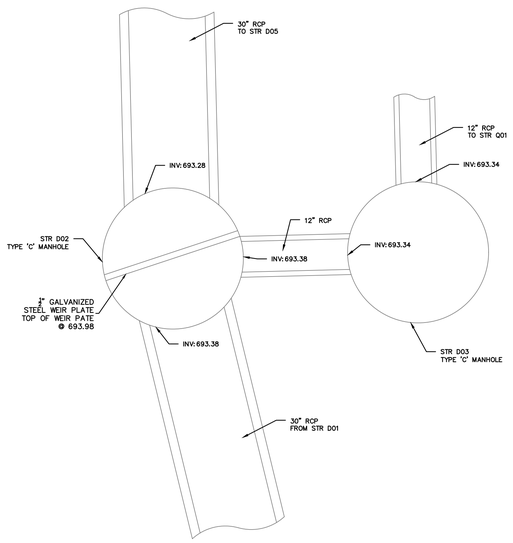
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

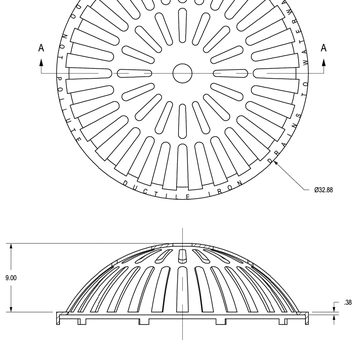
CS-5
CASCADE SEPARATOR
STANDARD DETAIL



DIVERSION STRUCTURE D02 DETAIL
NOT TO SCALE (REV. 12/24)

3099CGD

APPROX. DRAIN AREA = 409.94 SQ IN
APPROX. WEIGHT WITH FRAME = 83.00 LBS



SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

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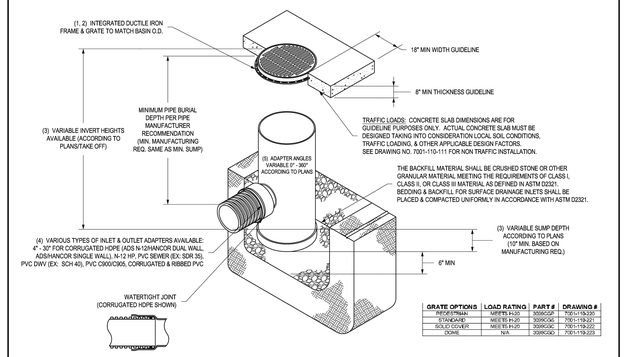
DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	03-08-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	08-30-13		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 30 IN DOME GRATE
DWG NO. 7001-110-223 REV E

NYLOPLAST 30" DRAIN BASIN: 2830AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
RIGHT/TRIBAL	MEETS H-20	3099CGR	7001-110-225
STANDARD	MEETS H-20	3099CGS	7001-110-221
SOLID COVER	MEETS H-20	3099CGC	7001-110-222
DOME	N/A	3099CGD	7001-110-223

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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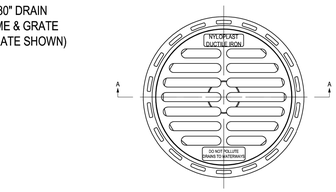
DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

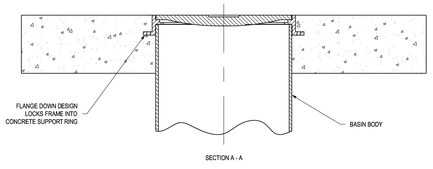
ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 30 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-103 REV G

18" , 24" , & 30" DRAIN BASIN FRAME & GRATE (18" STD GRATE SHOWN)



1899CG _
2499CG _
3099CG _



SECTION A - A

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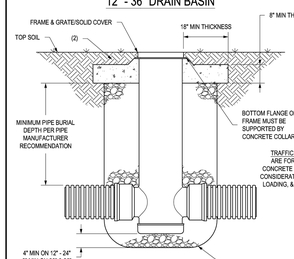
DRAWN BY	CJA	MATERIAL	
DATE	12-15-09		
APPD BY	CJA	PROJECT NO./NAME	
DATE	12-15-09		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

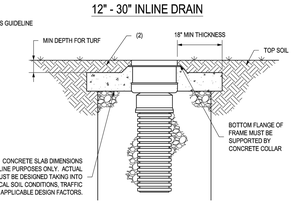
TITLE: 18 IN, 24 IN, & 30 IN FRAME & GRATE EXAMPLE
DWG NO. 7001-110-005 REV D

NYLOPLAST TURF TRAFFIC INSTALLATION

12" - 36" DRAIN BASIN



12" - 30" INLINE DRAIN



1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.
3. 30" DRAIN BASIN REQUIRES 36"X36" REDUCING CONE. REDUCING CONE REQUIRES 2.25FT MINIMUM FROM GRADE TO TOP OF PIPE.

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DRAWN BY	EBC	MATERIAL	
DATE	01-05-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN TURF TRAFFIC INSTALLATION
DWG NO. 7001-110-340 REV G

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
INDIANA UNIVERSITY BOARD OF TRUSTEES
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BLOOMINGTON, IN 47408
812-855-1692

Architect
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INDIANAPOLIS, IN 46204
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Structural Engineer
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SUITE 126
INDIANAPOLIS, IN 46240
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Mechanical / Electrical Engineer
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9025 RIVER ROAD
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317-547-5580

Food Service Consultant
CINILITTLE
3405 NW 9TH AVENUE #1202
FORT LAUDERDALE, FL 33309
954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

245 UNIVERSITY BLVD.



N
KEY PLAN

SEAL | DATE

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

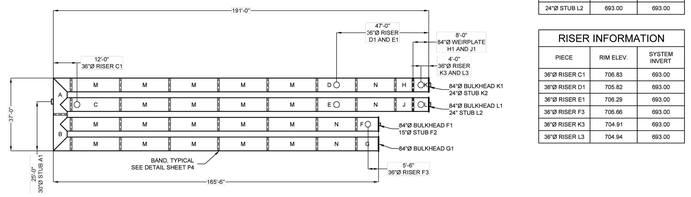
SITE DETAILS

SHEET NUMBER

C602

PLOT DATE: 1/24/2025 5:00 PM
PLOT SCALE: 1:1.008
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
DRAWING FILE: P:\2023\0087\D. Drawings\Civil\Construction Documents\2023.0087.CE.C603.SD.dwg
I:\COMMON\CAD\TEMPLATE\TEMPLATE.T; CASCADE\48 STANDARD DRAWINGS\SW2023-5.DWG 1/22/2019 8:39:35 AM

NORTH ARROW PROVIDED FOR REFERENCE ONLY.
REFER TO ENGINEERED SITE PLANS FOR EXACT LOCATION AND ORIENTATION



STUB INFORMATION		
PIECE	STUB INVERT	SYSTEM INVERT
30"Ø STUB A1	693.00	693.00
15"Ø STUB F2	693.00	693.00
24"Ø STUB K2	693.00	693.00
24"Ø STUB L2	693.00	693.00

RISER INFORMATION		
PIECE	RIM ELEV.	SYSTEM INVERT
36"Ø RISER C1	706.83	693.00
36"Ø RISER D1	705.82	693.00
36"Ø RISER E1	706.39	693.00
36"Ø RISER F3	706.66	693.00
36"Ø RISER K3	704.91	693.00
36"Ø RISER L3	704.94	693.00

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (5) PAGES INCLUDING THE FOLLOWING:

- **PIPE STORAGE = 27,170 CF**
- **MAINLINE PIPE GAGE = 16**
- **WALL TYPE = SOLID**
- **DIAMETER = 84"**
- **FINISH = ALT2**
- **CORRUGATION = 5x1**

CUSTOMER _____ DATE _____

NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
- ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD (EOR) PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2⅔" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.
- BULKHEADS SHALL BE CONSTRUCTED USING 12 GAGE OR HEAVIER MATERIAL, WITH BOTH THE WATER AND SOIL SIDE FINAL COATINGS MATCHING THE SPECIFIED CMP COATING. BULKHEAD PLATES MUST BE FULLY WELDED TO THE CONNECTING PIPE. THE DESIGN OF BULKHEADS SHALL ADHERE TO CHAPTER 8 OF THE NCSPA CSP DESIGN MANUAL, MEETING THE HEIGHT OF COVER DESIGN REQUIREMENTS WITH APPROPRIATE REINFORCEMENTS OR A MINIMUM REQUIRED PLATE THICKNESS. ADDITIONALLY, REINFORCING MEMBERS SHALL BE POST-COATED WITH ZINC RICH PAINT IN ACCORDANCE WITH AASHTO M36 FOR GALVANIZED AND ALUMINUM CMP SYSTEMS, OR AASHTO M245 FOR POLYMER CMP SYSTEMS.

ASSEMBLY
SCALE: 1" = 30'
LOADING: H20
PIPE INV. = 693.00'±

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MARK	DATE	REVISION DESCRIPTION	BY

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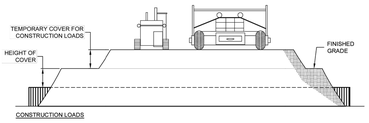
A QUIKRETE COMPANY
9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CMP DETENTION SYSTEMS
CONTECH PROPOSAL DRAWING

84"Ø UNDERGROUND DETENTION SYSTEM - 819886-20
IUI INDIANAPOLIS ATHLETIC CENTER
INDIANAPOLIS, IN
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.	SEQ. No.	DATE
819886	20	12/05/2024
DESIGNED: MDB	DRAWN: MDB	
CHECKED: MDB	APPROVED: MDB	
SHEET No.: P1	OF 5	



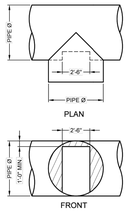
CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

CONSTRUCTION LOADING DIAGRAM
NOT TO SCALE



48"Ø to 90"Ø FITTING REINFORCEMENT MAY BE REQUIRED BASED ON HEIGHT OF COVER AND LIVE LOAD CONDITION

TYPICAL MANWAY DETAIL
NOT TO SCALE

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

SCOPE

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

MATERIAL

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

PIPE

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

HANDLING AND ASSEMBLY

SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA)

INSTALLATION

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

ANTI-FLOTATION PROVISIONS DUE TO HIGH GROUNDWATER OR OTHER FLOTATION CONCERNS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

MATERIAL SPECIFICATION
NOT TO SCALE

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MARK	DATE	REVISION DESCRIPTION	BY

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A QUIKRETE COMPANY
9100 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CMP DETENTION SYSTEMS
CONTECH PROPOSAL DRAWING

84"Ø UNDERGROUND DETENTION SYSTEM - 819886-20
IUI INDIANAPOLIS ATHLETIC CENTER
INDIANAPOLIS, IN
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.	SEQ. No.	DATE
819886	20	12/05/2024
DESIGNED: MDB	DRAWN: MDB	
CHECKED: MDB	APPROVED: MDB	
SHEET No.: P2	OF 5	

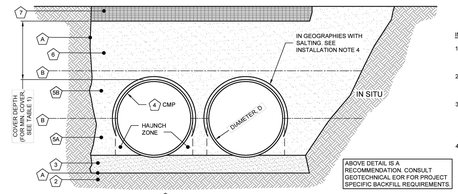


TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6'-10"	12"	1 1/2" x 1/4"
12'-48"	12"	2 2/3" x 1/2"
>48'-96"	12"	3" x 1", 5" x 1"
>96"	D/8	3" x 1", 5" x 1"

- STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT
- ULTRAFLO ALSO AVAILABLE FOR SIZES 18" - 120" WITH 3/4"x 3/4"x 7 1/2" CORRUGATION

MINIMUM WIDTH DEPENDS ON SITE CONDITIONS AND ENGINEERING JUDGEMENT

INSTALLATION NOTES

1. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.
2. OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.
3. BACKFILL USING CONTROLLED LOW-STRENGTH MATERIAL (CLSM, "FLASH FILL" OR "FLOWABLE FILL") MAY BE USED WHEN THE SPACING BETWEEN THE PIPES WILL NOT ALLOW FOR PLACEMENT AND ADEQUATE COMPACTION OF THE BACKFILL. CONTACT CONTECH FOR FURTHER EVALUATION.
4. IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED OVER THE UPPER HALF OF THE PIPE. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

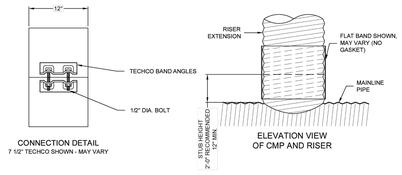
TABLE 2:

CMP DETENTION AND CMP DRAINAGE STANDARD BACKFILL SPECIFICATIONS

	MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION	
1	FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE ≤ 12": D + 16" PIPE > 12": 1.50 × D"	MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE: PIPE = 24": 3.00 PIPE 24" - 144": D × 4.0" PIPE > 144": D + 1'0"
2	FOUNDATION	**AASHTO 26.5.2** OR PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD.	
3	BEDDING	**AASHTO M 43: 3, 357, 4, 467, 5, 56, 57** (APPROVED REGIONAL EQUIVALENTS INCLUDE CA-7)	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE FOUNDATION SOILS CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.8.1	
4		CORRUGATED METAL PIPE		
5A	CRITICAL BACKFILL	**AASHTO M 145: A-1, A-2, A-3** *	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 8" +/- LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A THREE LIFT (24") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. WELL GRADED GRANULAR MATERIAL WHICH MAY CONTAIN SMALL AMOUNTS OF SILT OR CLAY AND MAXIMUM PARTICLE SIZE OF 3" (PER AASHTO 26.3.8.1 AND 12.4.1.3).	
W	BACKFILL	**AASHTO M 145: A-1, A-2, A-3**		
6	COVER MATERIAL	UP-TO MIN. COVER - SEE 5A AND 5B ABOVE ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROAD BASE MATERIAL WITHIN MIN COVER LIMITS	
7	RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.	
A	OPTIONAL SIDE GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.	
B	OPTIONAL GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.	

NOTES:
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER 2' BUT NO LESS THAN 12" FOR DIAMETERS <72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 36". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
- APPROVED REGIONAL EQUIVALENTS FOR SECTION 5A INCLUDE CA-7, MDOT 2G, 3AG, OR 21AA STONE OR GRAVEL; #8, #57. MDOT 6A, 2G, 3G, 3AG.

MANUFACTURER RECOMMENDED BACKFILL
NOT TO SCALE



CONNECTION DETAIL
7 1/2" TECHCO SHOWN - MAY VARY

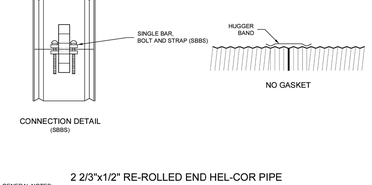
ELEVATION VIEW OF CMP AND RISER

PLAIN END CMP RISER PIPE

GENERAL NOTES:

1. **DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.**
2. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
3. BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.
4. IF RISER HAS A HEIGHT OF COVER OF 10' OR MORE, USE A SLIP JOINT.
5. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
   - 12" THRU 48" 1-PIECE
   - 54" 2-PIECES
6. ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.
7. MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.
8. DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

12" RISER BAND DETAIL
NOT TO SCALE



CONNECTION DETAIL
(SBBS)

2 2/3"x1/2" RE-ROLLED END HEL-COR PIPE

GENERAL NOTES:

1. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
2. BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.
3. BANDS ARE SHAPED TO MATCH THE PIPE-ARCH WHEN APPLICABLE.
4. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
   - 12" THRU 48" 1-PIECE
   - 54" THRU 96" 2-PIECES
   - 102" THRU 144" 3-PIECES
5. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
6. ALL CMP IS REROLLED TO HAVE ANNULAR END CORRUGATIONS OF 2 2/3"x1/2"
7. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
8. ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

H-12 HUGGER BAND DETAIL
NOT TO SCALE

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CONTECH CMP DETENTION SYSTEMS
CONTECH PROPOSAL DRAWING

84"Ø UNDERGROUND DETENTION SYSTEM - 819886-20
IUI INDIANAPOLIS ATHLETIC CENTER
INDIANAPOLIS, IN
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.	SEQ. No.	DATE
819886	20	12/05/2024
DESIGNED: MDB	DRAWN: MDB	
CHECKED: MDB	APPROVED: MDB	
SHEET No.: P3	OF 5	

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

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ASI PROJECT NO. 23112.000

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C603

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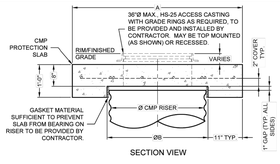
PLOT DATE: 1/24/2025 5:00 PM
PLOT SCALE: 1'1.008'
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
DRAWING FILE: P:\2023\20877\D. Drawings\Civil\Construction Documents\2023.20877.CE.C600.SD.dwg

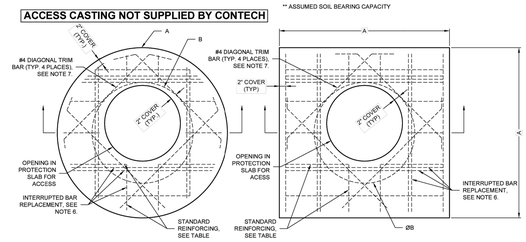


SECTION VIEW

REINFORCING TABLE				
Ø CMP RISER	A	B Ø	REINFORCING	**BEARING PRESSURE (PSF)
24"	4'Ø 4'x4'	26"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900
30"	4'-6"Ø 4'-6" x 4'-6"	32"	#5 @ 10" OCEW #5 @ 9" OCEW	2,260 1,670
36"	5'Ø 5' x 5'	38"	#5 @ 9" OCEW #5 @ 8" OCEW	2,060 1,500
42"	5'-6"Ø 5'-6" x 5'-6"	44"	#5 @ 8" OCEW #5 @ 8" OCEW	1,490 1,370
48"	6'Ø 6' x 6'	50"	#5 @ 7" OCEW #5 @ 7" OCEW	1,210 1,270

** ASSUMED SOIL BEARING CAPACITY

ACCESS CASTING NOT SUPPLIED BY CONTECH



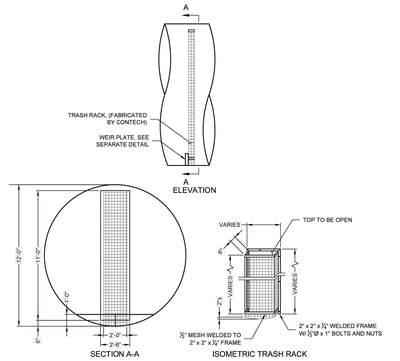
ROUND OPTION PLAN VIEW

SQUARE OPTION PLAN VIEW

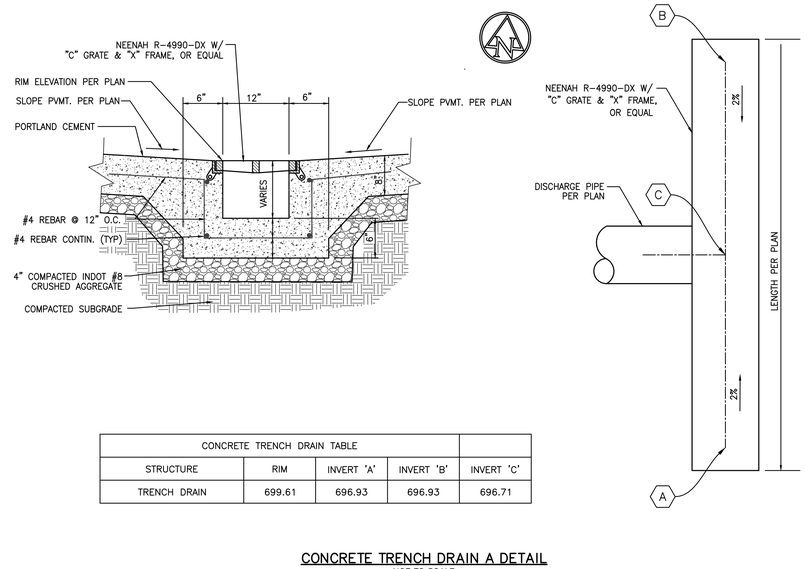
NOTES:

1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION AND ACI 350.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 4,000 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING. BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS, ENDWELL, NY.

MANHOLE CAP DETAIL
NOT TO SCALE

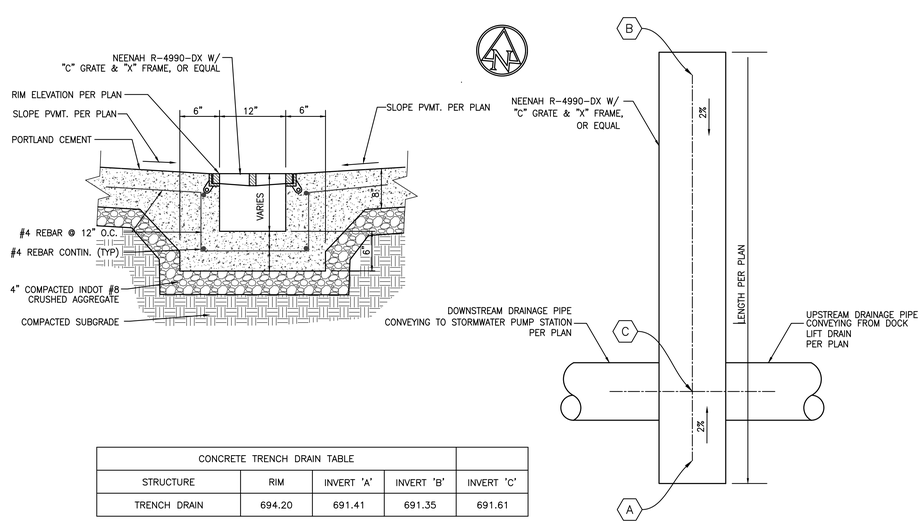


TRASH RACK DETAIL
PART NO.
NOT TO SCALE



CONCRETE TRENCH DRAIN TABLE				
STRUCTURE	RIM	INVERT 'A'	INVERT 'B'	INVERT 'C'
TRENCH DRAIN	699.61	696.93	696.93	696.71

CONCRETE TRENCH DRAIN A DETAIL
NOT TO SCALE



CONCRETE TRENCH DRAIN TABLE				
STRUCTURE	RIM	INVERT 'A'	INVERT 'B'	INVERT 'C'
TRENCH DRAIN	694.20	691.41	691.35	691.61

CONCRETE TRENCH DRAIN B DETAIL
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CONTECH CMP DETENTION SYSTEMS
CONTECH PROPOSAL DRAWING

84"Ø UNDERGROUND DETENTION SYSTEM - 819886-20
IUI INDIANAPOLIS ATHLETIC CENTER
INDIANAPOLIS, IN
SITE DESIGNATION: UNDERGROUND DETENTION

PROJECT No.	SEQ. No.	DATE
819886	20	12/05/2024
DESIGNER: MDB	DRAWN: MDB	
CHECKED: MDB	APPROVED: MDB	
SHEET: P5	OF 5	

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CONTECH CMP DETENTION SYSTEMS

DESIGNED:	DRAWN:
CHECKED:	APPROVED:

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IU Project NO. 20240127

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
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ASI PROJECT NO. 23112.000

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C604

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PLOT SCALE: 1:1.000
EDIT DATE: 1/24/2025
EDITED BY: DWELCH
DRAWING FILE: P:\2023\20877\D. Drawings\Civil\Construction Documents\2023.20877.CE.C600.SD.dwg

Technical Information

AMS336-200/2,8T/C

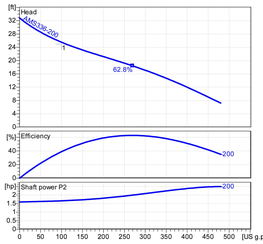
Operating data	
Flow	100 US g.p.m.
Head	25 ft
Shaft power P2	1.66 hp
Pump efficiency	39.1 %
Required pump NPSH	
Pump type	Single pump
No. of pumps	1
Fluid	Wastewater

Pump	
Pump Code	AMS336-200/2,8T/C
Impeller	Single channel impeller
Impeller size	7⅞"
Solid size	3 inch
Discharge port	3" ANSI
Suction port	DN100

Motor	
Rated voltage	230/ 460 V
Frequency	60 Hz
Rated power P2	2.8 hp
Rated speed	1160 rpm
Number of poles	6
Efficiency	82 %
Rated current	8.2 / 4,1 A
Degree of protection	IP 68

Materials	
Motor housing	Cast Iron ASTM A48;CI.40B
Pump housing	Cast Iron ASTM A48;CI.40B
Impeller	Cast Iron ASTM A48;CI.40B
Wear ring	Bronze ASTM B505; C93200
Motor shaft	AISI 430 F Stainless Steel
Bolts	AISI 304 Stainless Steel
Elastomers	Nitrile Rubber
Mechanical seal on motor side	SiC / SiC
Mechanical seal on medium side	SiC / SiC
Lower Bearing	Double row angular ball bearing
Upper Bearing	Deep Groove Ball Bearing

Testnorm: **HI Standard Sect. 11.6.5.4**



Wet well installation with coupling kit (T, 200...230)
Dimensions in mm [inch], letters see table

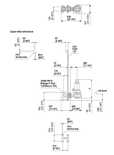


Table Dimensions **(inch)**

A	27⁷/₁₆

Project	Project no.:	Created by:	Page:	Date:
			1	2025-01-16

Performance Curve

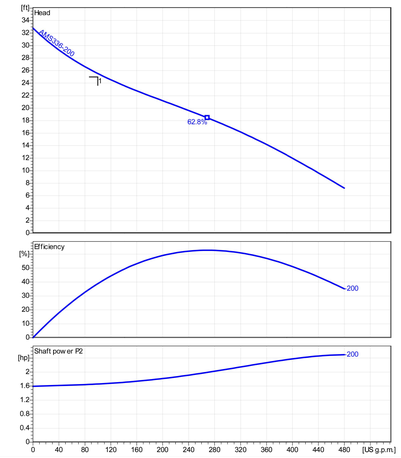
AMS336-200/2,8T/C

Impeller						
Impeller type: Single channel impeller	Solid size 3 inch	Ø:	Max. Ø: 9¼"	Min. Ø: 7½"	Sel. Ø: 7⅞"	

Operating data				
Speed: **1160 rpm**	Frequency: **60 Hz**	Duty point: **Q = 100 US g.p.m. H = 25 ft**	Shaft power P2: **1.66 hp**	Discharge port: **3" ANSI**

Power data referred to:
Water, clean [100%] ; 68°F; 62.322lb/ft³; 1.0818E-5ft²/s

Testnorm: **HI Standard Sect. 11.6.5.4**



Project	Project no.:	Created by:	Page:	Date:
			2	2025-01-16

Dimensions

AMS336-200/2,8T/C

Wet well installation with coupling kit (T, 200...230)
Dimensions in mm [inch], letters see table

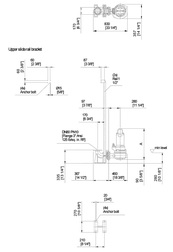


Table Dimensions **(inch)**

A	27⁷/₁₆

min level = Minimum fluid level for intermittent operation (S3)

Project	Project no.:	Created by:	Page:	Date:
			3	2025-01-16

Technical Data

AMS336-200/2,8T/C

Operating data					
Flow	**100 US g.p.m**	**US g.p.m.**	**Head**	**25 ft**	**ft**
Shaft power P2	**1.7**	**hp**	**Static head**	**0**	**ft**
Pump efficiency	**39.1**	**%**	**Required pump NPSH**		**ft**
Pump type	Single pump		No. of pumps	1	
Fluid	Wastewater		Temperature	68	°F
Density	62.31	lb/ft³	Kin. viscosity	1.077E-5	ft²/s

Pump					
Pump Code	AMS336-200/2,8T/C		Speed	1160	rpm
Suction port	DN100		Head Max.	32.8	ft
Discharge port	3" ANSI		Head Min.	7.2	ft
Impeller type	Single channel impeller		Flow Max.	479.9	US g.p.m.
Solid size	3	inch	Pump efficiency max.	62.8	%
Impeller Ø	7.87	inch	Required rated power max. P2	2.5	hp

Motor					
Motor design	Submersible motor		Insulation class	H	
Motor name	AM173.3,4T/6/3		Degree of protection	IP 68	
Frequency	60	Hz	Temperature class	T3C	
Rated power P2	2.8	hp	NEMA code	E	
			Explosion protection		
Rated speed	1160	rpm	Efficiency at % rated power 100%	82.0	%
Rated voltage	230 / 460 V	3~	Efficiency at % rated power 75%	83.0	%
Rated current	8.2 / 4,1	A	Efficiency at % rated power 50%	82.0	%
Starting current, direct starting	32.0 / 16	A	cos phi at % rated power 100%	0.78	
Starting current, star-delta	16	A	cos phi at % rated power 75%	0.72	
Starting mode	Directly		cos phi at % rated power 50%	0.59	
Power cable	10G1.5 / 14AWG-4+14AWG-4		Control cable	5G1.5 / -	
Type of power cable	HO7RN8-F PLUS / RHW-2		Type of control cable	H07RN-F / -	
Cable length	32.8 ft		Service factor	1.15	
Shaft seal	Mechanical seal on motor side		SiC / SiC		
	Mechanical seal on medium side		SiC / SiC		
Bearing	Lower Bearing		Double row angular ball bearing		
	Upper Bearing		Deep Groove Ball Bearing		
Remarks					

Materials / Weight			
Motor housing	Cast Iron ASTM A48;CI.40B	Bolts	AISI 304 Stainless Steel
Pump housing	Cast Iron ASTM A48;CI.40B	Elastomers	Nitrile Rubber
Impeller	Cast Iron ASTM A48;CI.40B		
Wear ring	Bronze ASTM B505; C93200		
Motor shaft	AISI 430 F Stainless Steel		
Weight aggregate	255.73 lb		

Project	Project no.:	Created by:	Page:	Date:
			4	2025-01-16

Technical Information

AMS646-340/15,3P/C

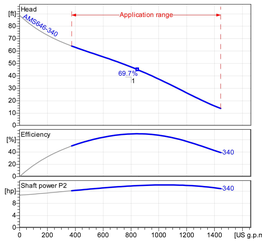
Operating data	
Flow	800 US g.p.m.
Head	39 ft
Shaft power P2	13.8 hp
Pump efficiency	69.7 %
Required pump NPSH	4.3 ft
Pump type	Single pump
No. of pumps	1
Fluid	Wastewater

Pump	
Pump Code	AMS646-340/15,3P/C
Impeller	Single channel impeller
Impeller size	13⅞"
Solid size	4 inch
Discharge port	6" ANSI
Suction port	DN150

Motor	
Rated voltage	230/ 460 V
Frequency	60 Hz
Rated power P2	15.3 hp
Rated speed	1160 rpm
Number of poles	6
Efficiency	85 %
Rated current	48 23,0 A
Degree of protection	IP 68

Materials	
Motor housing	Cast Iron ASTM A48;CI.40B
Pump housing	Cast Iron ASTM A48;CI.40B
Impeller	Cast Iron ASTM A48;CI.40B
Wear ring	Bronze ASTM B505; C93200
Motor shaft	AISI 430 F Stainless Steel
Bolts	AISI 304 Stainless Steel
Elastomers	Nitrile Rubber
Mechanical seal on motor side	SiC / SiC
Mechanical seal on medium side	SiC / SiC
Lower Bearing	Two angular ball bearings
Upper Bearing	Deep Groove Ball Bearing

Testnorm: **P2>10kW, HI Standard Grade 2B**
P2<10kW, HI Standard Sect. 11.6.5.4



Wet well installation with coupling kit (P, 330...370)
Dimensions in mm [inch], letters see table

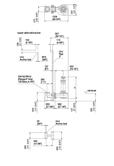


Table Dimensions **(inch)**

H	40

Project	Project no.:	Created by:	Page:	Date:
			1	1/17/2025

Performance Curve

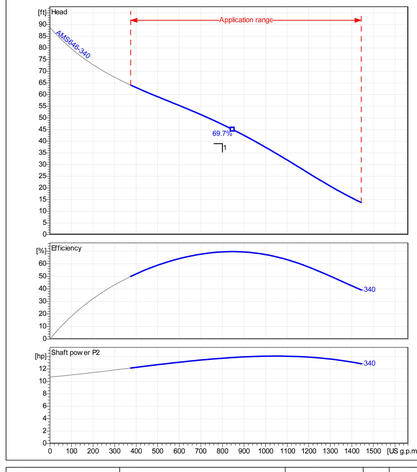
AMS646-340/15,3P/C

Impeller						
Impeller type: Single channel impeller	Solid size 4 inch	Ø:	Max. Ø: 14¼"	Min. Ø: 13⁹/₁₆"	Sel. Ø: 13⁹/₁₆"	

Operating data				
Speed: **1160 rpm**	Frequency: **60 Hz**	Duty point: **Q = 800 US g.p.m. H = 39 ft**	Shaft power P2: **13.8 hp**	Discharge port: **6" ANSI**

Power data referred to:
Water [100%] ; 68°F; 62.322lb/ft³; 1.0818E-5ft²/s

Testnorm: **P2>10kW, HI Standard Grade 2B**
P2<10kW, HI Standard Sect. 11.6.5.4



Project	Project no.:	Created by:	Page:	Date:
			2	1/17/2025

Dimensions

AMS646-340/15,3P/C

Wet well installation with coupling kit (P, 330...370)
Dimensions in mm [inch], letters see table

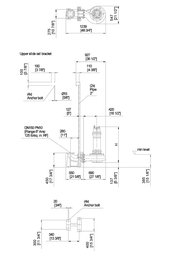


Table Dimensions **(inch)**

H	40

min level = Minimum fluid level for intermittent operation (S3)

Project	Project no.:	Created by:	Page:	Date:
			3	1/17/2025

Technical Data

AMS646-340/15,3P/C

Operating data					
Flow	**800 US g.p.m**	**US g.p.m.**	**Head**	**39 ft**	**ft**
Shaft power P2	**13.8**	**hp**	**Static head**	**0**	**ft**
Pump efficiency	**69.7**	**%**	**Required pump NPSH**	**4.3**	**ft**
Pump type	Single pump		No. of pumps	1	
Fluid	Wastewater		Temperature	68	°F
Density	62.31	lb/ft³	Kin. viscosity	1.077E-5	ft²/s

Pump					
Pump Code	AMS646-340/15,3P/C		Speed	1160	rpm
Suction port	DN150		Head Max.	64.1	ft
Discharge port	6" ANSI		Head Min.	13.8	ft
Impeller type	Single channel impeller		Flow Max.	1444.1	US g.p.m.
Solid size	4	inch	Pump efficiency max.	69.7	%
Impeller Ø	13.5	inch	Required rated power max. P2	14.1	hp

Motor					
Motor design	Submersible motor		Insulation class	H	
Motor name	AM204.18P/6/3		Degree of protection	IP 68	
Frequency	60	Hz	Temperature class	T3C	
Rated power P2	15.3	hp	NEMA code	D	
			Explosion protection		
Rated speed	1160	rpm	Efficiency at % rated power 100%	85.0	%
Rated voltage	230 / 460 V	3~	Efficiency at % rated power 75%	87.0	%
Rated current	46.0 / 23,0	A	Efficiency at % rated power 50%	86.0	%
Starting current, direct starting	166.1 / 83,0	A	cos phi at % rated power 100%	0.78	
Starting current, star-delta	55	A	cos phi at % rated power 75%	0.69	
Starting mode	Directly		cos phi at % rated power 50%	0.59	
Power cable	4G6 / 8AWG-4+14AWG-4		Control cable	5G1.5 / -	
Type of power cable	H07RN8-F PLUS / RHW-2		Type of control cable	H07RN-F / -	
Cable length	32.8 ft		Service factor	1.15	
Shaft seal	Mechanical seal on motor side		SiC / SiC		
	Mechanical seal on medium side		SiC / SiC		
Bearing	Lower Bearing		Two angular ball bearings		
	Upper Bearing		Deep Groove Ball Bearing		
Remarks					

Materials / Weight			
Motor housing	Cast Iron ASTM A48;CI.40B	Bolts	AISI 304 Stainless Steel
Pump housing	Cast Iron ASTM A48;CI.40B	Elastomers	Nitrile Rubber
Impeller	Cast Iron ASTM A48;CI.40B		
Wear ring	Bronze ASTM B505; C93200		
Motor shaft	AISI 430 F Stainless Steel		
Weight aggregate	665.78 lb		

Project	Project no.:	Created by:	Page:	Date:
			4	1/17/2025

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EDITED BY: DHELICH
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PLOT SCALE: 1:1.000
EDIT DATE: 1/24/2025

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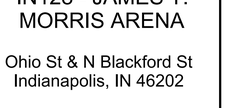

N

KEY PLAN

SEAL | DATE

APPROVAL PENDING
NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

RATIO

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ASI PROJECT NO. 23112.000

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C605

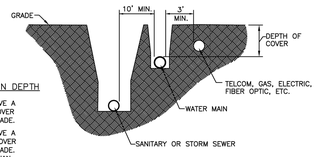
FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

CITIZENS WATER
STANDARD PRACTICE A

REVISION DATE: 09/29/2021 ISSUE DATE: 6/8/2009

WATER MAIN SEPARATION FROM OTHER UTILITIES

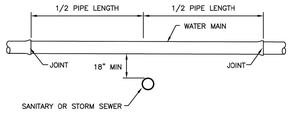
NOTE:
WATER MAIN AND SANITARY SEWERS SHALL BE PLACED IN SEPARATE TRENCHES.



TYPICAL WATER MAIN DEPTH

1. ALL PIPE SHALL HAVE A MINIMUM OF 54" COVER BELOW FINISHED GRADE.
2. ALL PIPE SHALL HAVE A MAXIMUM OF 82" COVER BELOW FINISHED GRADE. DEPTHS GREATER THAN 82" COVER WILL REQUIRE A LOWERING

WATER MAIN LAYING PARALLEL TO OTHER UTILITIES SECTION VIEW

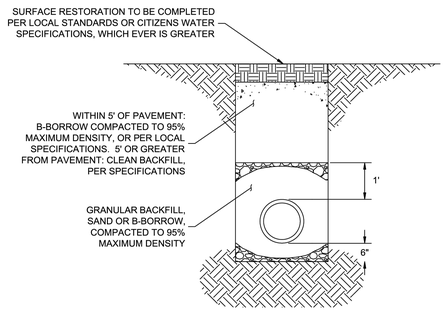


WATER MAIN CROSSING SEWER SECTION VIEW

CITIZENS WATER
STANDARD PRACTICE A.1

REVISION DATE: 9/20/2018 ISSUE DATE: 7/17/2013

WATER MAIN AND SERVICE BACKFILL REQUIREMENTS



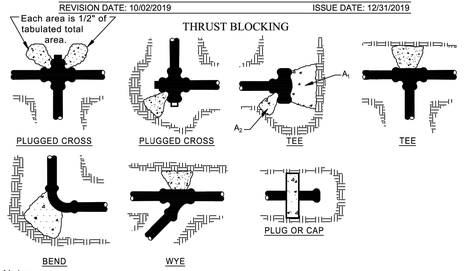
SCALE: NTS

NOTE:
COMPACTED BACKFILL IN LIFTS OF 12" MAXIMUM. TRENCH EXCAVATION SHALL CONFORM TO LOCAL STANDARDS.

CITIZENS WATER
STANDARD PRACTICE A.2

REVISION DATE: 10/02/2019 ISSUE DATE: 12/31/2019

THRUST BLOCKING



Notes:

1) CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.

2) KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.

3) POLYETHYLENE ENCASEMENT SHALL BE PLACED BETWEEN CONCRETE AND FITTINGS.

4) ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 P.S.I., 2" TO 4" SLUMP AND INCLUDE WIRE MESH FOR REINFORCEMENT.

5) MINIMUM SOIL BEARING SURFACE AREA REQUIREMENTS ARE PROVIDED BELOW BASED ON 150 P.S.I. WATER PRESSURE PLUS 100 P.S.I. WATER HAMMER AND SOIL BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT.

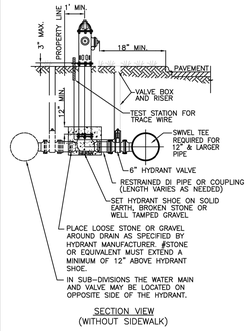
Minimum Soil Bearing Surface Area (ft2) (Assuming 3,000 psf Soil Bearing Capacity)				
Pipe Size	Horizontal Bends			Tee or Dead End (Plug/Cap)
	22-1/2°	45°	90°	
6"		6	8	6
8"		6	8	6
12"	4	6	11	8
16"	6	11	22	15
20"	9	18	36	24
24"	13	27	50	36
30"	20	45	76	57
36"	31	59	115	80

CITIZENS WATER
STANDARD PRACTICE B

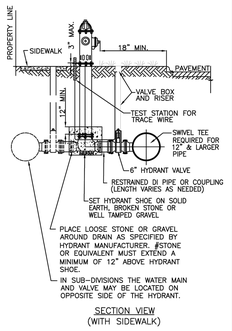
REVISION DATE: 10/02/2019 ISSUE DATE: 12/31/2019

STANDARD HYDRANT SETTING

NOTES:
1. ALL HYDRANTS SHALL BE RESTRAINED TO THE HYDRANT TEE WITH DUCTILE IRON BRANCH PIPING ENCASED IN POLYETHYLENE WRAP.
2. SWIVEL 90° BEND MAY BE USED TO INSTALL HYDRANT AND VALVE IN GRASS STRIP BETWEEN CURB & SIDEWALK.
3. A MANUFACTURED "OUT OF SERVICE" SIGN WILL BE REQUIRED ON HYDRANTS UNTIL MAIN HAS BEEN PLACED "IN SERVICE" BY THE INSPECTOR.
4. FOR BRANCH PIPE LONGER THAN 10', INSTALL TRACING WIRE ALONG HYDRANT VALVE RISER.



SECTION VIEW (WITHOUT SIDEWALK)

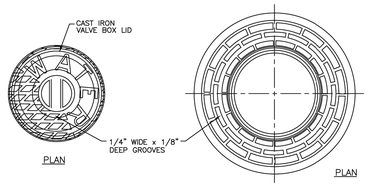


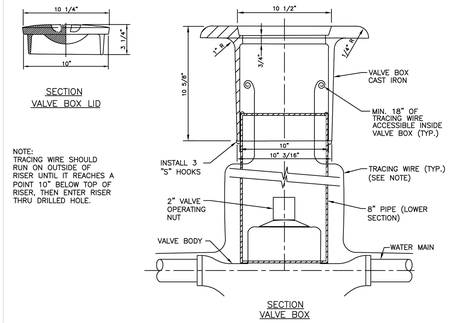
SECTION VIEW (WITH SIDEWALK)

CITIZENS WATER
STANDARD PRACTICE G

REVISION DATE: 10/11/2021 ISSUE DATE: 6/8/2009

STANDARD 8" VALVE BOX AND COVER





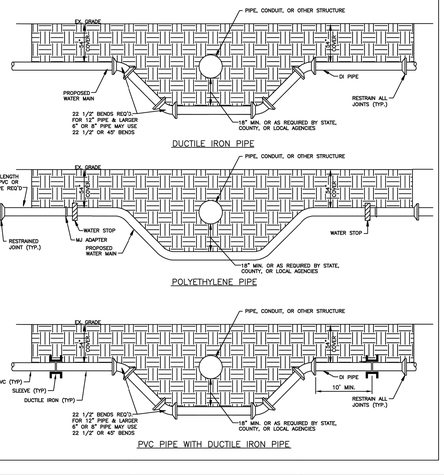
NOTE:
TRACING WIRE SHOULD RUN ON OUTSIDE OF RISER UNTIL IT REACHES A POINT 10" BELOW TOP OF RISER, THEN ENTER RISER THRU DRILLED HOLE.

CITIZENS WATER
STANDARD PRACTICE H.2

REVISION DATE: 11/22/2022 ISSUE DATE: 12/31/2019

WATER MAIN LOWERING

NOTES:
1. ALL PIPE USED IN WATER MAIN LOWERING SHALL BE POLYETHYLENE PIPE OR DUCTILE IRON WITH RESTRAINED BENDS. (SEE STANDARD PRACTICE DRAWING "O" FOR RESTRAINED JOINT)
2. DEFLECTIONS AND FITTINGS (INCLUDING TAPS) WITHIN A LOWERING SHALL BE PROHIBITED.

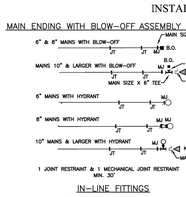


CITIZENS WATER
STANDARD PRACTICE O

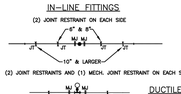
REVISION DATE: 11/06/2023 ISSUE DATE: 6/8/2009

INSTALLATION OF RESTRAINTS

MAIN ENDING WITH BLOW-OFF ASSEMBLY OR HYDRANT



IN-LINE FITTINGS



BEND RESTRAINT

1. ALL BENDS REQUIRE RESTRAINERS.
2. ALL BENDS ARE DUCTILE IRON AND REQUIRE (1) MECHANICAL JOINT RESTRAINT ON EACH SIDE OF THE FITTING.
3. 22 1/2° BENDS REQUIRE ONLY MECHANICAL JOINT RESTRAINTS AND 45° BENDS REQUIRE MECHANICAL JOINT RESTRAINTS AND A SET OF JOINT RESTRAINTS 40' EACH SIDE OF THE FITTING.
4. THRUST BLOCK REQUIRED ON ALL 45° & 90° BENDS.

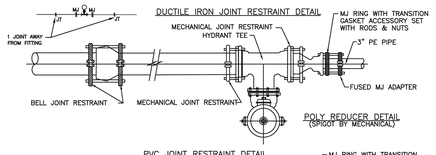
MAIN LINE REDUCER



FITTING RESTRAINT WITH PE PIPE

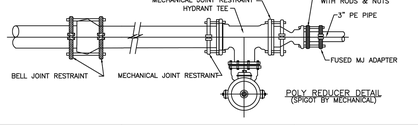


DUCTILE IRON JOINT RESTRAINT DETAIL



POLY REDUCER DETAIL (SPIGOT BY MECHANICAL)

PVC JOINT RESTRAINT DETAIL



POLY REDUCER DETAIL (SPIGOT BY MECHANICAL)

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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SHEET ISSUE

A	BID PACKAGE 1 - SITE EXCAVATION	10/29/2024
B	CONSTRUCTION DOCUMENTS	01/13/2025
C	ADDENDUM 01	01/27/2025

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WATER DETAILS

SHEET NUMBER

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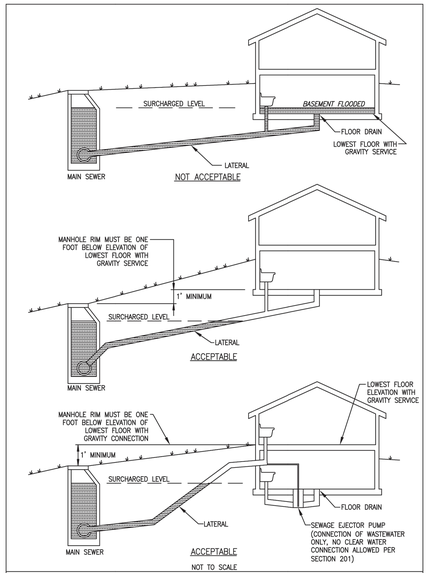

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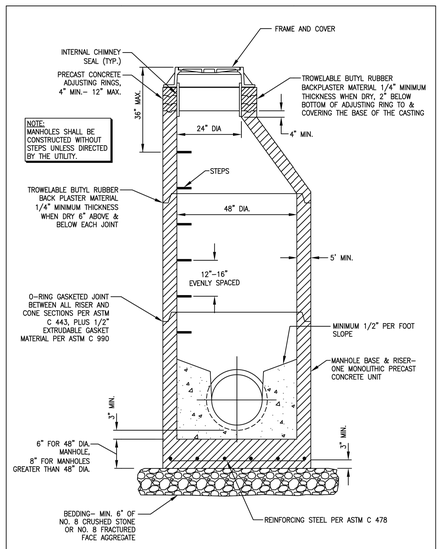
CITIZENS ENERGY GROUP

MINIMUM ELEVATIONS FOR GRAVITY CONNECTION

FIGURE 200.01



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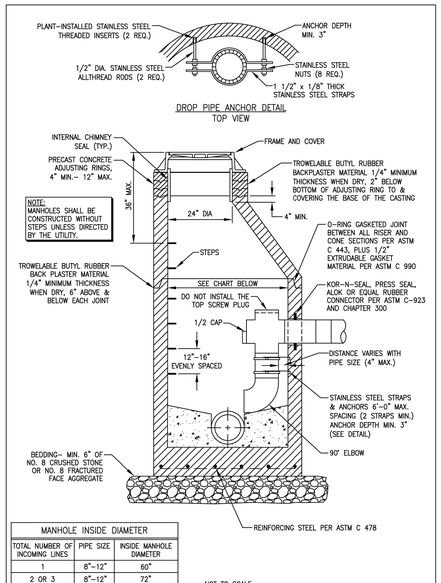
CITIZENS ENERGY GROUP

STANDARD MANHOLE FOR PIPE SIZES 8"–24" (STRAIGHT THROUGH)

FIGURE 300.01



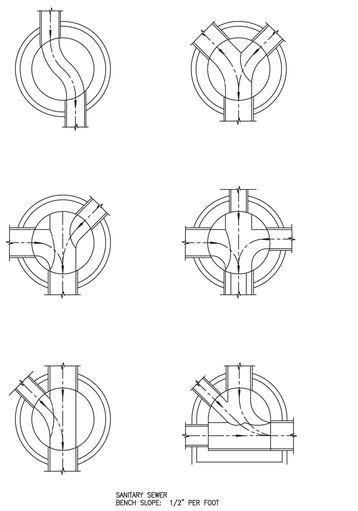
MANHOLE INSIDE DIAMETER		
TOTAL NUMBER OF INCOMING LINES	PIPE SIZE	INSIDE MANHOLE DIAMETER
1	8"–12"	60"
2 OR 3	8"–12"	72"

NOT TO SCALE

CITIZENS ENERGY GROUP

INTERNAL DROP MANHOLE

FIGURE 300.04



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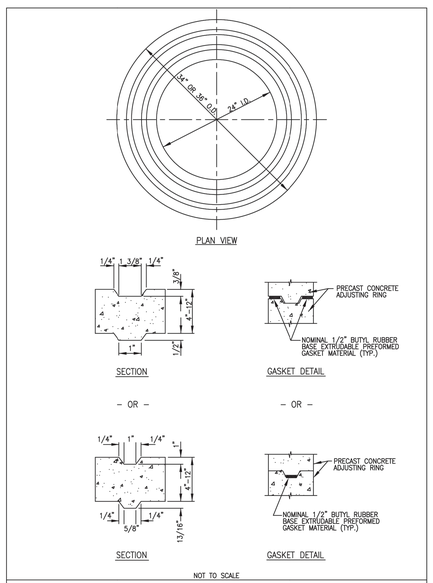
CITIZENS ENERGY GROUP

STANDARD MANHOLE BENCHES

FIGURE 300.07



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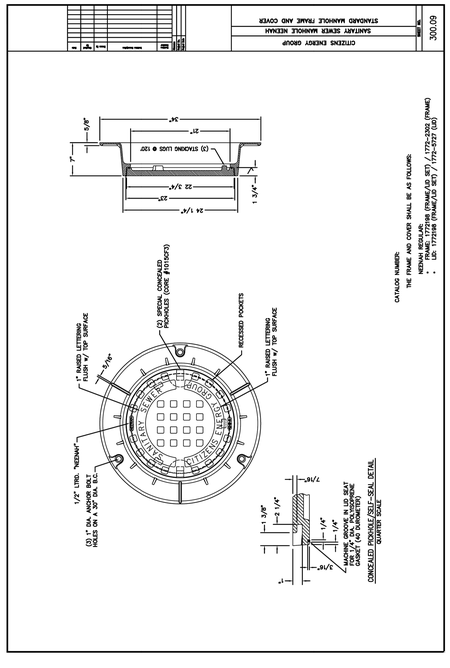
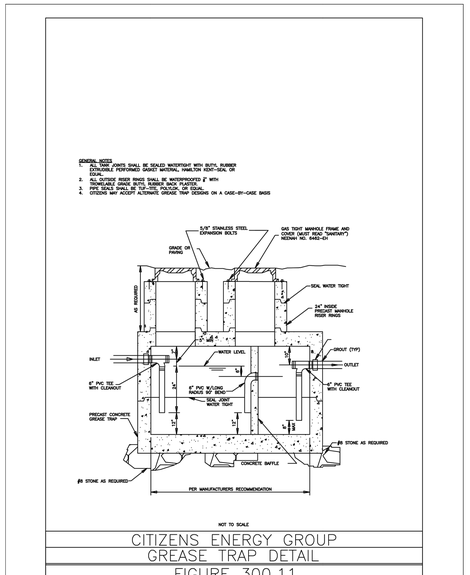
CITIZENS ENERGY GROUP

ADJUSTING RING

FIGURE 300.08





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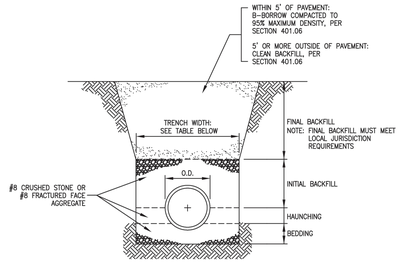
CITIZENS ENERGY GROUP

GREASE TRAP DETAIL

FIGURE 300.11



MINIMUM BEDDING, HAUNCHING, AND INITIAL BACKFILL DEPTHS		
PIPE SIZE	BEDDING (BELOW PIPE BARREL)	HAUNCHING AND INITIAL BACKFILL (ABOVE TOP OF PIPE)
UNDER 8"	4" MIN.	4" MIN.
8" TO 15"	4" MIN.	12" MIN.
18" & OVER	8" MIN.	12" MIN.

MINIMUM TRENCH WIDTHS	
PIPE SIZE	MINIMUM WIDTH
UP TO 18"	O.D. + 16"
18" & OVER	(O.D. x 1.25) + 12"

NOT TO SCALE

CITIZENS ENERGY GROUP

FLEXIBLE PIPE BEDDING & BACKFILL REQUIREMENTS

FIGURE 400.01

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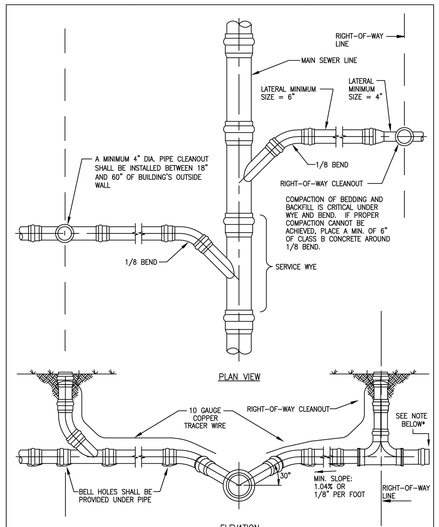

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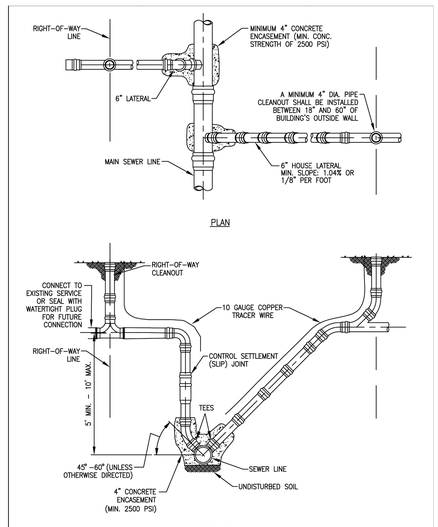
CITIZENS ENERGY GROUP

SERVICE CONNECTION FOR SHALLOW SEWERS (Less than 15' deep)

FIGURE 400.05



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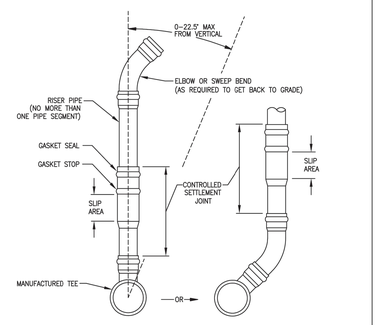
CITIZENS ENERGY GROUP

SERVICE CONNECTION FOR DEEP SEWERS (15' deep and over)

FIGURE 400.06



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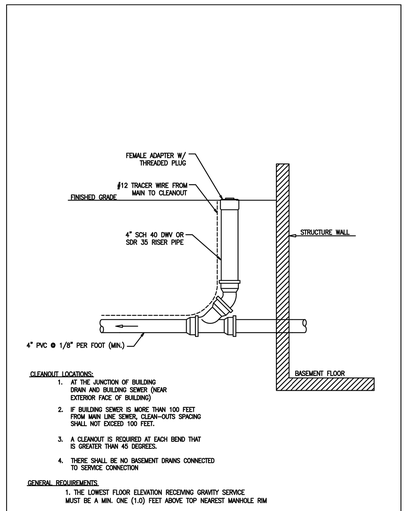
CONTROLLED SETTLEMENT JOINT INSTALLATION

FIGURE 400.07



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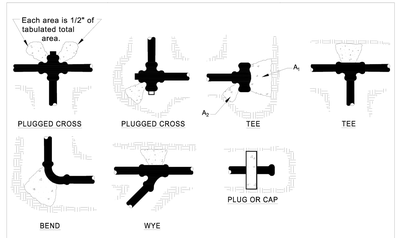
CITIZENS ENERGY GROUP

HOUSE/BUILDING SERVICE CLEAN-OUT DETAIL

FIGURE 400.09



NOTES:
1) CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2) KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3) POLYETHYLENE ENCASEMENT SHALL BE PLACED BETWEEN CONCRETE AND FITTINGS.
4) ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 P.S.I., 2" TO 4" SLUMP AND INCLUDE WIRE MESH FOR REINFORCEMENT.
5) MINIMUM SOIL BEARING SURFACE AREA REQUIREMENTS ARE PROVIDED BELOW BASED ON 150 P.S.I. WATER PRESSURE PLUS 100 P.S.I. WATER HAMMER AND SOIL BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT.

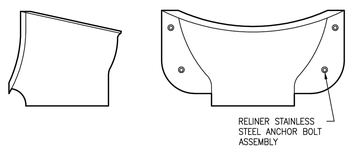
Minimum Soil Bearing Surface Area (ft2)
(Assuming 3,000 psf Soil Bearing Capacity)

Pipe Size	Horizontal Bends			Tee or Dead End (Plug/Cap)
	22-1/2°	45°	90°	
6"		6	8	6
8"		6	8	6
12"	4	6	11	8
16"	6	11	22	15
20"	9	18	36	24
24"	13	27	50	36
30"	20	45	76	57
36"	31	59	115	80

CITIZENS ENERGY GROUP

THRUST BLOCKING

FIGURE 400.13



DROP BOWL

NOTE:
RELINER/DURAN, INC. MANUFACTURER OR APPROVED EQUAL. ALL SIZES ARE FOR RETROFIT OR NEW CONSTRUCTION. FABRICATED IN MARINE GRADE FIBERGLASS AND FINISHED IN BRIGHT WHITE GEL COAT.

USE 4 RELINER ANCHOR ASSEMBLIES TO ATTACH DROP BOWL TO STRUCTURE WALL. USE RELINER STAINLESS STEEL PIPE BRACKETS TO SUPPORT DOWN PIPE. EXTERNAL PIPE COUPLER REQUIRED. PROVIDE SWEEP AT DOWN PIPE OUTLET.

OUTLET SIZES GREATER THAN 18-INCHES SHALL BE APPROVED BY THE UTILITY.

OUTLET SIZE	STRUCTURE DIAMETER	PART NUMBER
4-inch	6-8 feet	A4R96
6-inch	6-8 feet	A6R96
8-inch	6-8 feet	B8DBR84
10-inch	6-8 feet	B10R96
12-inch	4-6 feet	24/12R60
12-inch	7-8 feet	24/12R96
18-inch	4-6 feet	30/18R60
18-inch	7-8 feet	30/18R96

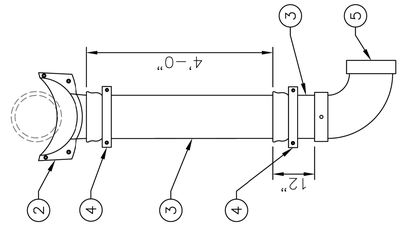
NOT TO SCALE

CITIZENS ENERGY GROUP

DROP BOWL FOR ROUND WALLS

FIGURE 400.15

CONSTRUCTION NOTES:
1. NEW DROP BOWL AND DROP PIP IS IN SERVICE, CONTRACTOR TO CAS MONITORING EQUIPMENT. DR INCOMING SEWER LINE.
2. INSTALL NEW DROP BOWL (RELIN WALL WITH 3/8" STAINLESS STEI
3. INSTALL 10" PVC PIPE WITH BEL
4. INSTALL STAINLESS STEEL PIPE I STAINLESS STEEL ANCHOR BOLT
5. INSTALL 10" PVC 45 OR 90 DE NUTS AND BOLTS TO SECURE EI OF WALL.



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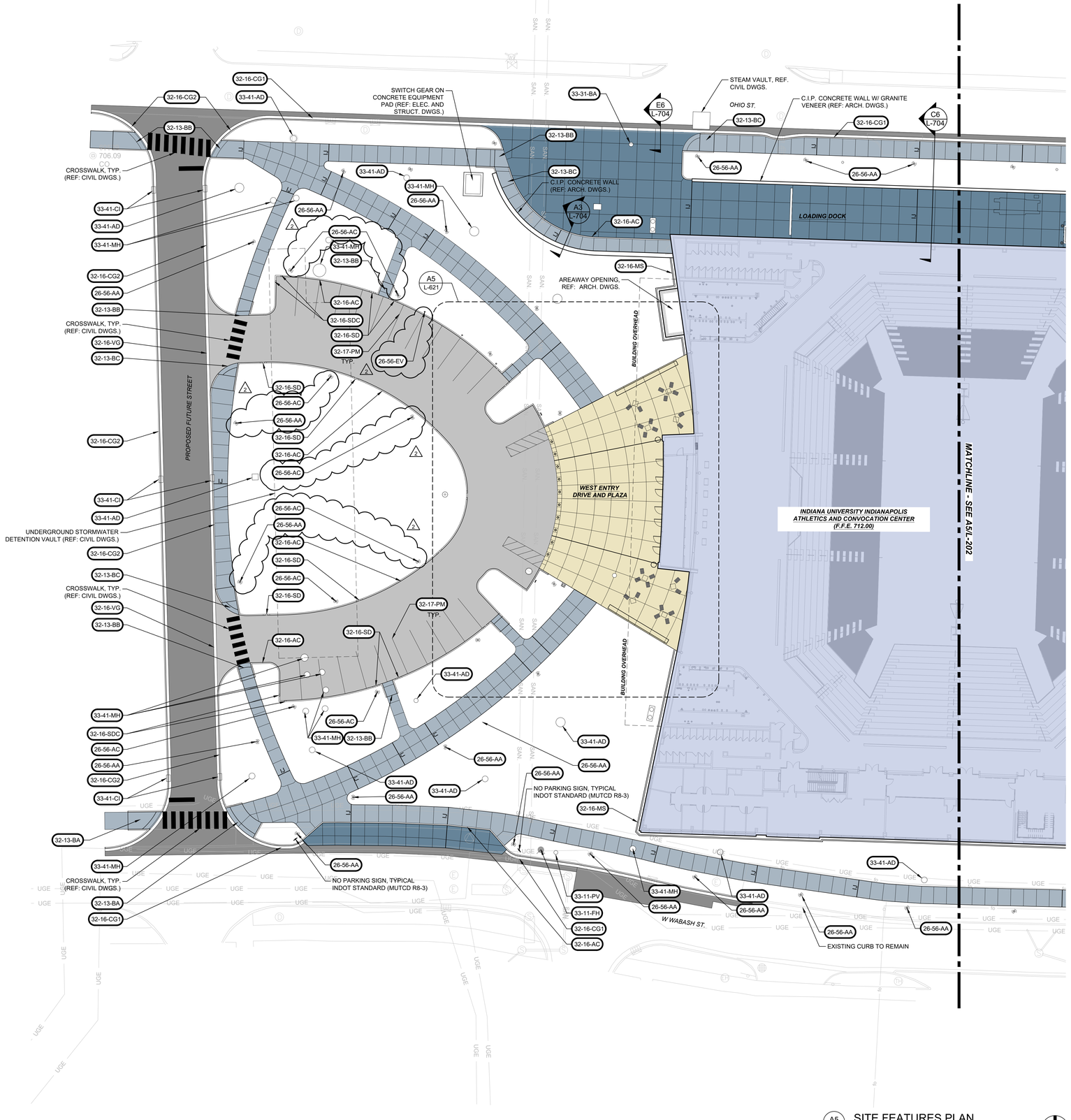

A5 L-201 SITE FEATURES PLAN

SCALE 0 10' 20' 40'

GENERAL NOTES | SITE FEATURES PLANS:

1. REFERENCE GENERAL LANDSCAPE ARCHITECTURAL NOTES ON L-000 PRIOR TO COMMENCING THE SITE FEATURES SCOPE OF WORK.
2. EXISTING AND PROPOSED UTILITIES THAT ARE SHOWN ARE FOR REFERENCE ONLY. REFER TO THE SITE SURVEY FOR EXISTING UTILITIES AND VERIFY ALL IN THE FIELD. REFER TO THE SITE ELECTRICAL PLAN FOR PROPOSED SITE LIGHTING AND POWER DISTRIBUTION EQUIPMENT. REFER TO CIVIL DRAWINGS FOR ALL OTHER PROPOSED UTILITIES.
3. REFERENCE NOTES SCHEDULE MAY APPEAR ON MULTIPLE SHEETS. NOT ALL REFERENCE NOTES APPEAR ON EACH SHEET.
4. REFER TO A1/L-701 FOR CONCRETE PAVING JOINT DETAILS.
5. 'IJ' DENOTES ISOLATION JOINT.
6. 'CJ-A' DENOTES CONTRACTION JOINT 'A'.
7. 'CJ-B' DENOTES CONTRACTION JOINT 'B'.
8. 'CJ-C' DENOTES CONTRACTION JOINT 'C'.
9. 'CJ-F' DENOTES CONTRACTION JOINT 'F'.
10. ALL CONCRETE PAVING JOINTS SHALL BE CONTRACTION JOINT 'A' UNLESS INDICATED OTHERWISE.
11. ALL ISOLATION AND CONCRETE JOINTS FOR CONCRETE CURBS SHALL ALIGN WITH RESPECTIVE ISOLATION AND CONTRACTION JOINT SPACING OF ADJACENT CONCRETE PAVEMENTS AND SIDEWALKS. SEE CURB DETAILS FOR ADDITIONAL INFORMATION, IF APPLICABLE.
12. REFER TO CIVIL DRAWINGS FOR ALL PAVING IN THE PUBLIC RIGHT-OF-WAY UNLESS OTHERWISE INDICATED IN THE LANDSCAPE DRAWINGS.
13. CURB RAMPS SHALL COMPLY WITH CURB RAMP DRAWING INDEX & GENERAL NOTES (REF:A6/L-702)

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
FLEXIBLE PAVING		
	ASPHALT PAVING, STANDARD, MEDIUM DUTY	G4/L-701
	ASPHALT PAVING, STANDARD, ROW	F5/L-701
RIGID PAVING		
	CONCRETE PAVING, STANDARD, LIGHT DUTY, BROOM FINISH	D7/L-701
	CONCRETE PAVING, STANDARD, LIGHT DUTY, BROOM FINISH, IU BEIGE COLOR, SEE SPEC. 321316	D7/L-701
	CONCRETE PAVING, STANDARD, HEAVY DUTY, BROOM FINISH	B7/L-701

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
EXTERIOR LIGHTING		
26-56-AA	ELECTRICAL, EXTERIOR LIGHTING, 16' POLE, BLACK (REFER TO E-SERIES DRAWING FOR FOOTING COORDINATION), REFER TO L-700 SERIES FOR FOOTING PAVEMENT COORDINATION	A1/L-704
26-56-AC	ELECTRICAL, EXTERIOR LIGHTING, 20' POLE, BLACK (REFER TO E-SERIES DRAWING FOR FOOTING COORDINATION), REFER TO L-700 SERIES FOR FOOTING PAVEMENT COORDINATION	A1/L-704
26-56-EV	FUTURE EV CHARGER (REF: ELEC. DWGS.)	
32 EXTERIOR IMPROVEMENTS		
32-13-BA	CURB RAMP, PERPENDICULAR	D1/L-702
32-13-BB	CURB RAMP, PERPENDICULAR, ONE-WAY DIRECTIONAL WITH BUFFER	A5/L-702
32-13-BC	CURB RAMP, PERPENDICULAR, ONE-WAY DIRECTIONAL ADJACENT CURB	A3/L-702
CURBS, GUTTERS, SIDEWALKS, AND DRIVEWAYS		
32-16-AC	CURB, CONCRETE, VERTICAL	A5/L-701
32-16-CG1	CURB, CONCRETE, VERTICAL CURB AND GUTTER @ EXISTING ASPHALT PATCH	A5/L-703
32-16-CG2	CURB, CONCRETE, VERTICAL CURB AND GUTTER @ NEW ASPHALT PAVEMENT	C5/L-703
32-16-MS	CURB, CONCRETE, MAINTENANCE STRIP	C1/L-704
32-16-SD	CURB, CONCRETE, STORM CUT, TYPICAL	D2/L-701
32-16-SDC	CURB, CONCRETE, STORM CUT, CORNER	E2/L-701
32-16-VG	VALLEY GUTTER, CONCRETE, CATCHING	D7/L-703
PAVING SPECIALTIES		
32-17-PM	PAVEMENT MARKING	
33 UTILITIES		
33-11-FH	WATER UTILITY, FIRE HYDRANT, (REF: CIVIL DWGS.)	
33-11-PV	WATER UTILITY, POST INDICATOR VALVE (REF: CIVIL DWGS.)	
SANITARY UTILITY SEWERAGE PIPING		
33-31-BA	SANITARY SEWER, MANHOLE, (REF: CIVIL DWGS.)	
STORM UTILITY DRAINAGE PIPING		
33-41-AD	STORM DRAINAGE, AREA DRAIN (REF: CIVIL DWGS.)	
33-41-CI	STORM DRAINAGE, CURB INLET (REF: CIVIL DWGS.)	
33-41-MH	STORM DRAINAGE, MANHOLE (REF: CIVIL DWGS.)	

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2	ADDENDUM 01	01/27/2025

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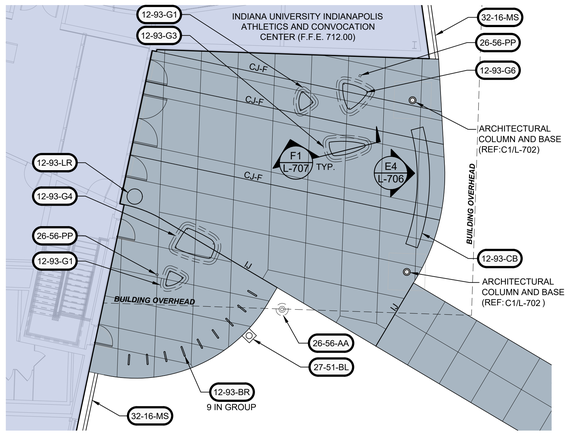
PROJECT NO. 23112.000

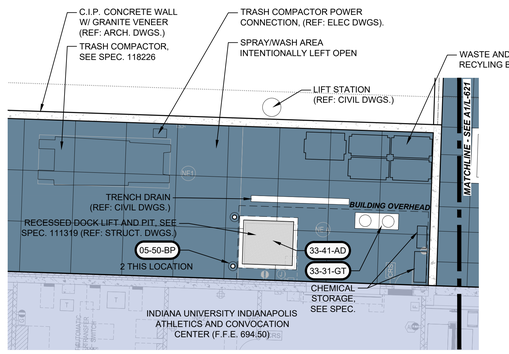
SHEET TITLE
SITE FEATURES PLAN

SHEET NUMBER
L-201



F1 L-621 PLAN ENLARGEMENTS - SITE FEATURES

SCALE 0 5' 10' 20'



F3 L-621 PLAN ENLARGEMENTS - SITE FEATURES

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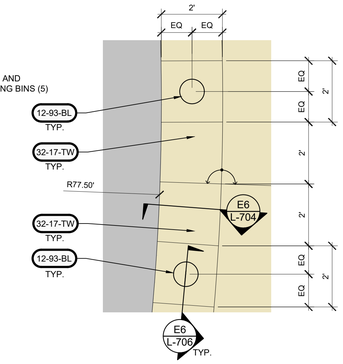
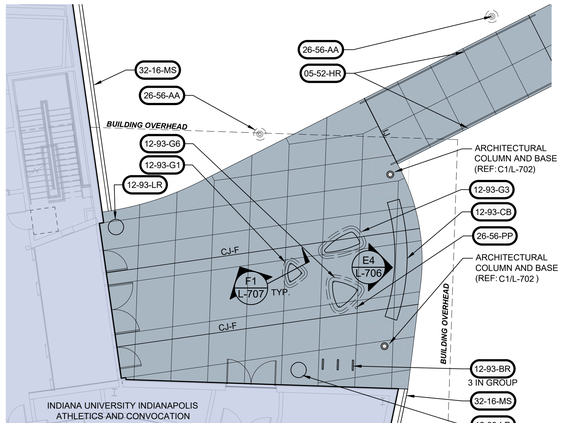


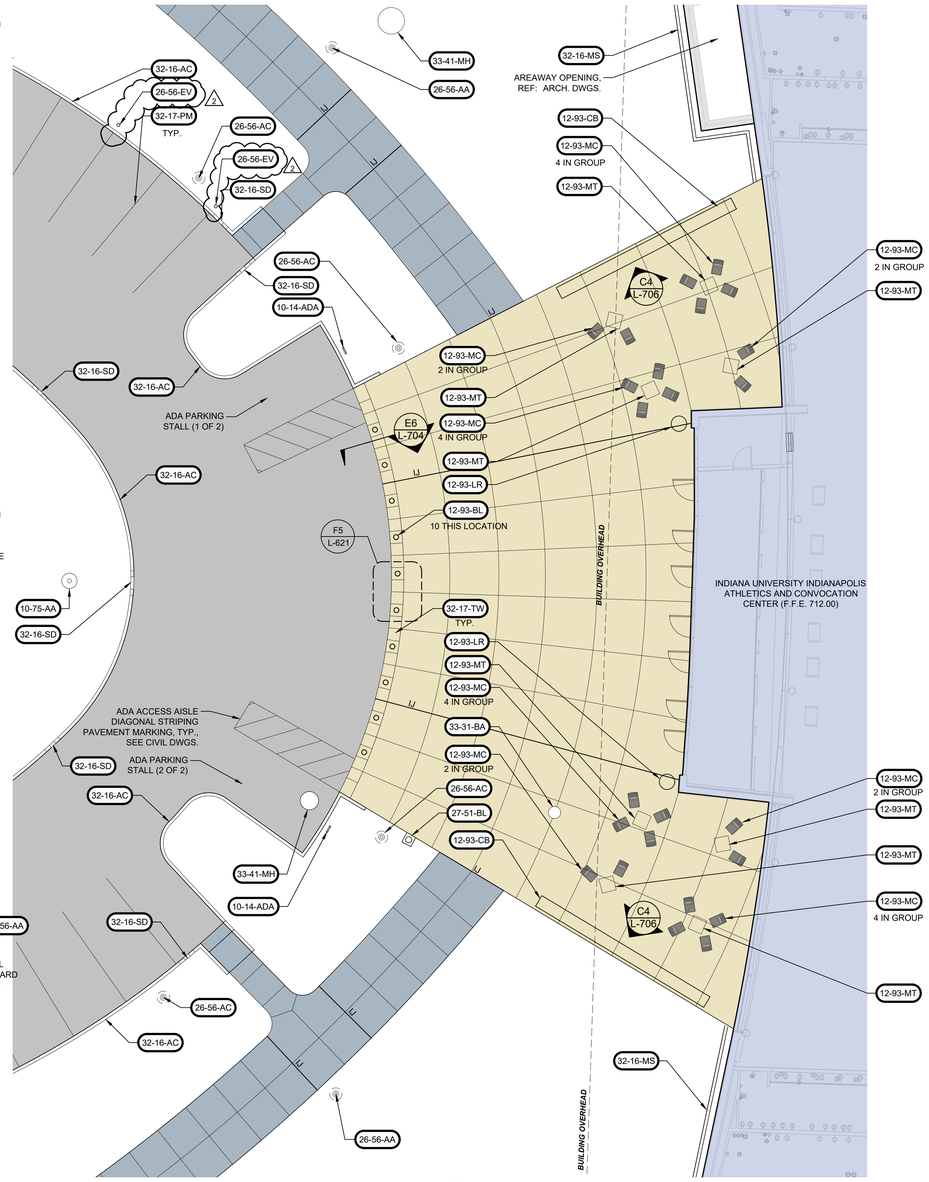
F5 L-621 PLAN ENLARGEMENTS - SITE FEATURES

SCALE 0 1' 2' 4'



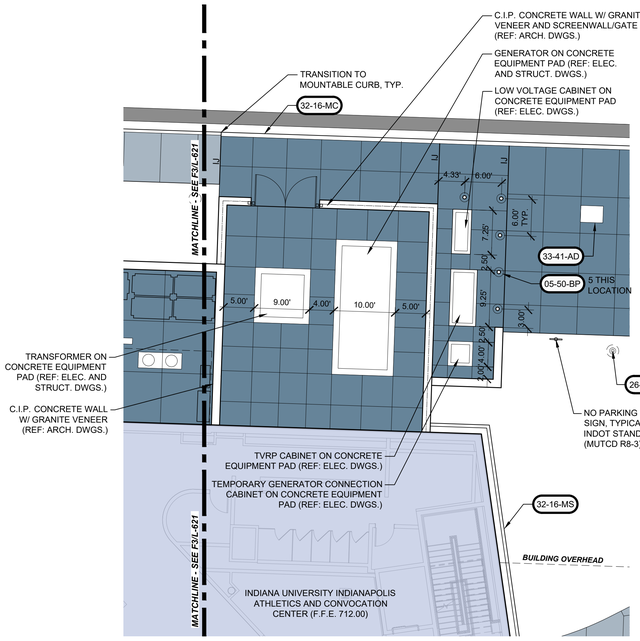
D1 L-621 PLAN ENLARGEMENTS - SITE FEATURES

SCALE 0 5' 10' 20'



A5 L-621 PLAN ENLARGEMENTS - SITE FEATURES

SCALE 0 5' 10' 20'



A1 L-621 PLAN ENLARGEMENTS - SITE FEATURES

SCALE 0 5' 10' 20'

GENERAL NOTES | SITE FEATURES PLAN ENLARGEMENTS:

1. REFERENCE GENERAL LANDSCAPE ARCHITECTURAL NOTES ON L-000 PRIOR TO COMMENCING THE SITE FEATURES SCOPE OF WORK.
2. EXISTING AND PROPOSED UTILITIES THAT ARE SHOWN ARE FOR REFERENCE ONLY. REFER TO THE SITE SURVEY FOR EXISTING UTILITIES AND VERIFY ALL IN THE FIELD. REFER TO THE SITE ELECTRICAL PLAN FOR PROPOSED SITE LIGHTING AND POWER DISTRIBUTION EQUIPMENT. REFER TO CIVIL DRAWINGS FOR ALL OTHER PROPOSED UTILITIES.
3. REFERENCE NOTES SCHEDULE MAY APPEAR ON MULTIPLE SHEETS. NOT ALL REFERENCE NOTES APPEAR ON EACH SHEET.
4. REFER TO A1/L-701 FOR CONCRETE PAVING JOINT DETAILS.
5. 'IJ' DENOTES ISOLATION JOINT.
6. 'CJ-A' DENOTES CONTRACTION JOINT 'A'.
7. 'CJ-B' DENOTES CONTRACTION JOINT 'B'.
8. 'CJ-C' DENOTES CONTRACTION JOINT 'C'.
9. 'CJ-F' DENOTES CONTRACTION JOINT 'F'.
10. ALL CONCRETE PAVING JOINTS SHALL BE CONTRACTION JOINT 'A' UNLESS INDICATED OTHERWISE.
11. ALL ISOLATION AND CONCRETE JOINTS FOR CONCRETE CURBS SHALL ALIGN WITH RESPECTIVE ISOLATION AND CONTRACTION JOINT SPACING OF ADJACENT CONCRETE PAVEMENTS AND SIDEWALKS. SEE CURB DETAILS FOR ADDITIONAL INFORMATION, IF APPLICABLE.
12. REFER TO CIVIL DRAWINGS FOR ALL PAVING IN THE PUBLIC RIGHT-OF-WAY UNLESS OTHERWISE INDICATED IN THE LANDSCAPE DRAWINGS.
13. CURB RAMPS SHALL COMPLY WITH CURB RAMP DRAWING INDEX & GENERAL NOTES (REF: A6/L-702).

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
FLEXIBLE PAVING		
	ASPHALT PAVING, STANDARD, MEDIUM DUTY	G4/L-701
	ASPHALT PAVING, STANDARD, ROW	F5/L-701
RIGID PAVING		
	CONCRETE PAVING, STANDARD, LIGHT DUTY, BROOM FINISH	D7/L-701
	CONCRETE PAVING, STANDARD, LIGHT DUTY, BROOM FINISH, IU BEIGE COLOR, SEE SPEC. 321316	D7/L-701
	CONCRETE PAVING, STANDARD, HEAVY DUTY, BROOM FINISH	B7/L-701

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
METAL FABRICATIONS		
05-50-BP	METAL FABRICATION, BOLLARD, FIXED, BUMPER POST APPLICATION	C7/L-703
METAL RAILINGS		
05-52-HR	METAL RAILING, ADA RAMP HANDRAIL, GROUND MOUNT, TYPE 316 STAINLESS STEEL	A1/L-703
10 SPECIALTIES		
10-14-ADA	ADA PARKING SIGNAGE, (REF. CIVIL DWGS.)	
FLAGPOLES		
10-75-AA	FLAGPOLE, GROUND MOUNT (U.S. [WEST] 30') (STATE, CITY 25')	A6/L-704
12 FURNISHINGS		
12-93-BL	PRECAST CONCRETE, BOLLARD, WAUSAU TILE, ZB.RO.02 CONCRETE HIGH BOLLARD, COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	A1/L-706
12-93-BR	SITE FURNISHING, BIKE RACK, FUNCTION FIRST BIKE SECURITY, MODEL BR-8 BROWN, IU CUSTOM COLOR, SURFACE MOUNT	E1/L-706
12-93-CB	SITE FURNISHING, STREETLIFE SOLID CROSSWISE BENCH, FSC HARDWOOD SLATS, 24" WIDE WITH POWDER COATED STEEL SUPPORTS, COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT	C1/L-706
12-93-G1	SITE FURNISHINGS, BENCH, WAUSAU, GALET I, COLOR AND FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT	D1/L-707
12-93-G3	SITE FURNISHINGS, BENCH, WAUSAU, GALET III, COLOR AND FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT	A4/L-707
12-93-G4	SITE FURNISHINGS, BENCH, WAUSAU, GALET IV, COLOR AND FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT	D4/L-707
12-93-G6	SITE FURNISHINGS, BENCH, WAUSAU, GALET VI, COLOR AND FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT	A1/L-707
12-93-LR	SITE FURNISHING, LITTER RECEPTACLE, VICTOR STANLEY, IRONSITES MODEL SD42, POWDER COAT FINISH, COLOR TO BE SELECTED BY OWNER	D1/L-706
12-93-MC	SITE FURNISHING, MOVEABLE CHAIR, LANDSCAPE FORMS, PARC CENTRE, ARMLESS, POWDER COAT FINISH, COLOR TO BE SELECTED BY OWNER	A4/L-706
12-93-MT	SITE FURNISHING, MOVEABLE TABLE, LANDSCAPE FORMS, PARC CENTRE, SQUARE, POWDER COAT FINISH, COLOR TO BE SELECTED BY OWNER	A6/L-706
26 ELECTRICAL		
26-56-AA	ELECTRICAL, EXTERIOR LIGHTING, 16' POLE, BLACK (REFER TO E-SERIES DRAWING FOR FOOTING COORDINATION), REFER TO L-700 SERIES FOR FOOTING PAVEMENT COORDINATION	A1/L-704
26-56-AC	ELECTRICAL, EXTERIOR LIGHTING, 20' POLE, BLACK (REFER TO E-SERIES DRAWING FOR FOOTING COORDINATION), REFER TO L-700 SERIES FOR FOOTING PAVEMENT COORDINATION	A1/L-704
26-56-EV	FUTURE EV CHARGER (REF: ELEC. DWGS.)	
26-56-PP	PEDOC POWER PEDESTAL	
27 COMMUNICATIONS		
27-51-BL	SECURITY, CODE BLUE EMERGENCY PHONE (REF: IT DWGS.)	C3/L-704
32 EXTERIOR IMPROVEMENTS		
32-16-AC	CURB, CONCRETE, VERTICAL	A5/L-701
32-16-MC	CURB, CONCRETE INTEGRAL CURB, MOUNTABLE	D5/L-701
32-16-MS	CURB, CONCRETE, MAINTENANCE STRIP	C1/L-704
32-16-SD	CURB, CONCRETE, STORM CUT, TYPICAL	D2/L-701
PAVING SPECIALTIES		
32-17-PM	PAVEMENT MARKING	
32-17-TW	PAVING SPECIALTIES, TACTILE WARNING SURFACE, CAST-IRON, FINISH: OIL,	A7/L-703
33 UTILITIES		
33-31-BA	SANITARY SEWER, MANHOLE, (REF: CIVIL DWGS.)	
33-31-GT	SANITARY, GREASE TRAP (REF:CIVIL/MEP DWGS.)	
STORM UTILITY DRAINAGE PIPING		
33-41-AD	STORM DRAINAGE, AREA DRAIN (REF: CIVIL DWGS.)	
33-41-MH	STORM DRAINAGE, MANHOLE (REF: CIVIL DWGS.)	

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IU Project NO. 20240127

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SEAL | DATE 01/27/2025

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/2025
2	ADDENDUM 01	01/27/2025

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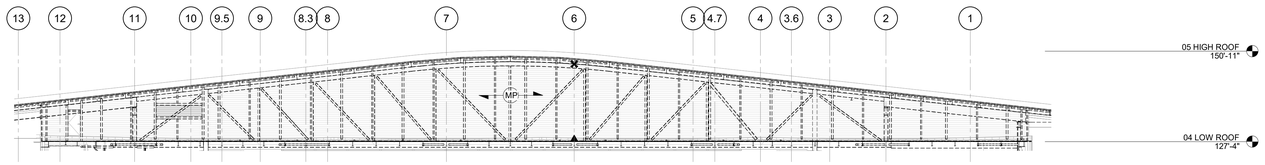
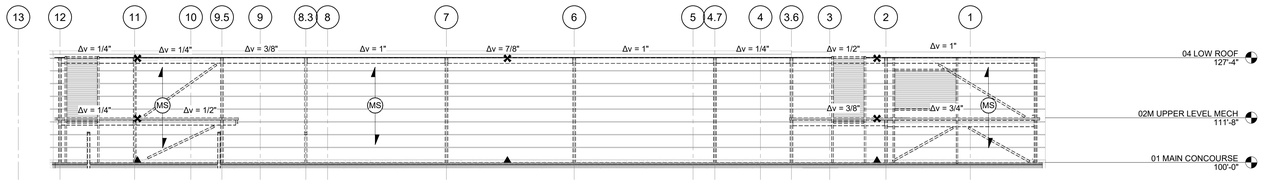
PROJECT NO. 23112.000

SHEET TITLE
PLAN ENLARGEMENTS - SITE FEATURES

SHEET NUMBER
L-621



1 CLADDING DESIGN CRITERIA - NORTH ROOF STEP
SCALE: 1/16" = 1'-0"



2 CLADDING DESIGN CRITERIA - NORTH EVENT LEVEL
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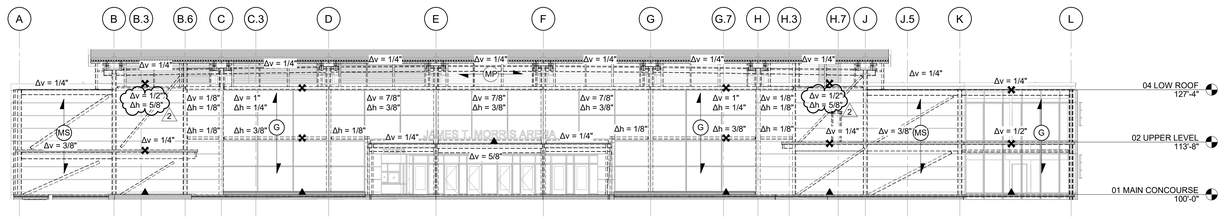

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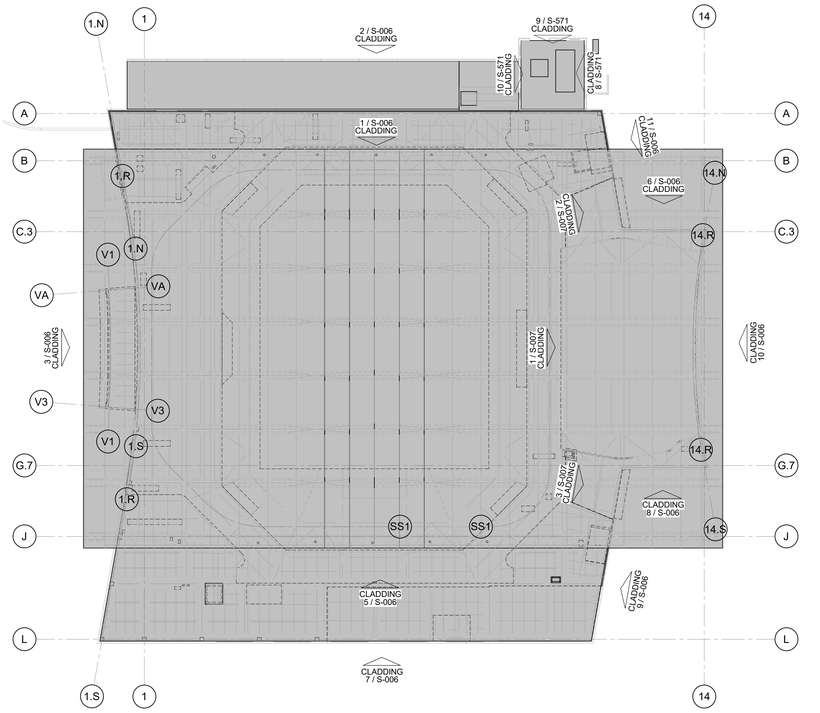
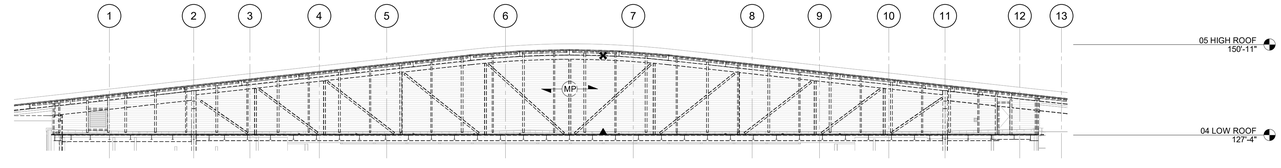


4 CLADDING DESIGN CRITERIA - ELEVATION KEYPLAN
SCALE: 1/32" = 1'-0"



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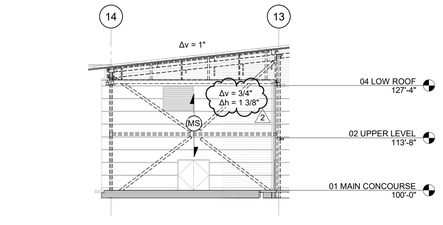

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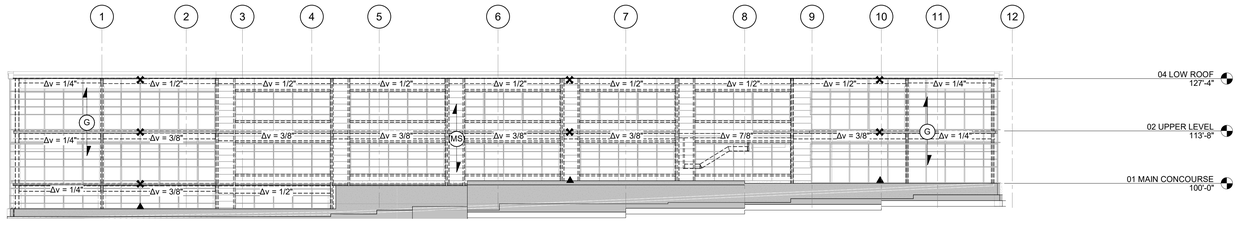
SCALE: 1/16" = 1'-0"



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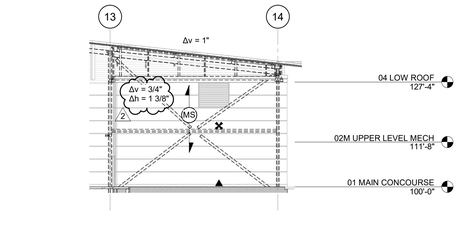

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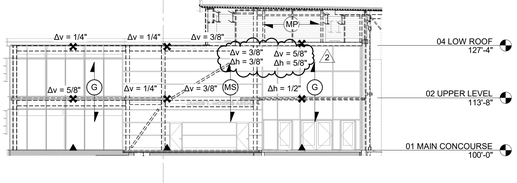

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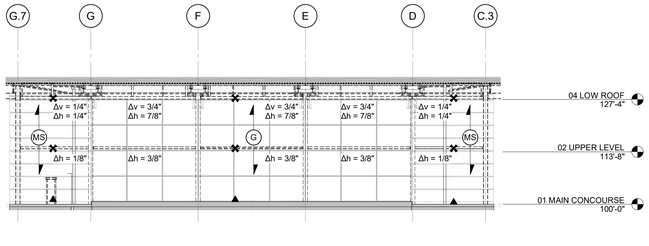

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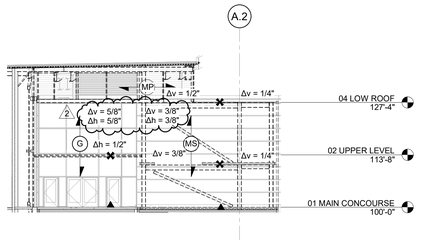

11 CLADDING DESIGN CRITERIA - EAST
SCALE: 1/16" = 1'-0"

1/24/2025 3:12:43 PM

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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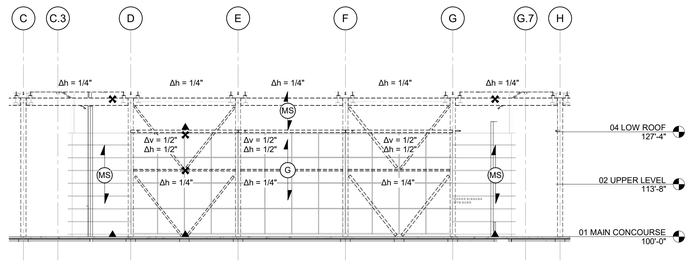
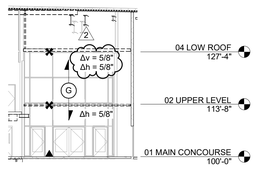
PROJECT NO. 23112.000

SHEET TITLE
CLADDING DESIGN CRITERIA ELEVATIONS

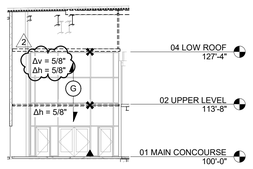
SHEET NUMBER
S-006



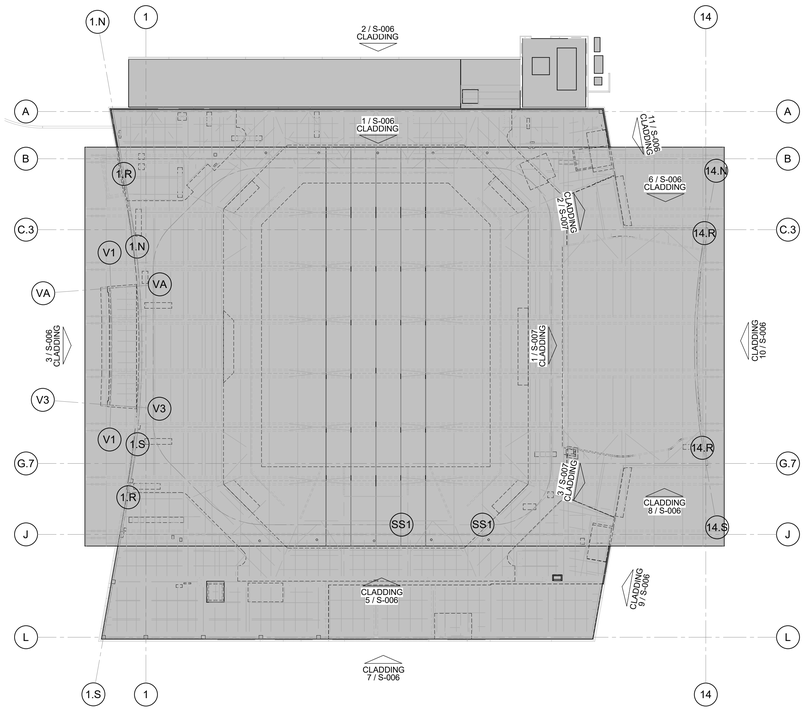
1 CLADDING DESIGN CRITERIA - PRACTICE GYM WALL
SCALE: 1/16" = 1'-0"



2 CLADDING ELEV. - NE VESTIBULE
SCALE: 1/16" = 1'-0"



3 CLADDING ELEV. - SE VESTIBULE
SCALE: 1/16" = 1'-0"



6 CLADDING DESIGN CRITERIA - ELEVATION KEYPLAN
SCALE: 1/32" = 1'-0"

CLADDING BACKUP CRITERIA LEGEND

- ▲ DEAD LOAD AND LATERAL CONNECTION TO PRIMARY STRUCTURE. CLADDING BACKUP OR OTHER CLADDING SYSTEM. DEAD LOAD CONNECTION DESIGN BY CONTRACTOR, INCLUDING ANY ADDITIONAL MISCELLANEOUS STEEL REQUIRED BUT NOT SHOWN ON STRUCTURAL DRAWINGS. DO NOT ATTACH TO WOOD BLOCKING.
- ✖ LATERAL TIE-BACK ONLY ACCOMMODATES STRUCTURAL DEFLECTIONS INDICATED ON ELEVATIONS. LATERAL CONNECTION DESIGN BY CONTRACTOR.
- ◯ INDICATES DIRECTION OF SPAN FOR CLADDING AND CLADDING BACKUP FOR WIND AND SEISMIC LOADS. SEE DESIGN INFORMATION DRAWING AND SPECIFICATIONS FOR DESIGN LOADS AND PERFORMANCE CRITERIA.
- (G) CURTAIN WALL / STORE FRONT/SLOPED GLAZING CLADDING SYSTEM (PERFORMANCE SPECIFIED). SEE SPECIFICATIONS FOR ADDITIONAL PERFORMANCE DESIGN CRITERIA AND DESIGN INFORMATION DRAWING FOR LOADING CRITERIA. CONNECTIONS TO STRUCTURE MUST ACCOMMODATE INDICATED MOVEMENTS OF THE STRUCTURE.
- (MS) LIGHT GAGE METAL STUD CLADDING BACKUP SYSTEM (SEE S-570 SERIES DRAWINGS FOR ADDITIONAL INFORMATION). SEE SPECIFICATIONS FOR ADDITIONAL PERFORMANCE DESIGN CRITERIA AND DESIGN INFORMATION DRAWING FOR LOAD CRITERIA. CONNECTIONS TO STRUCTURE MUST BE ABLE TO ACCOMMODATE INDICATED MOVEMENTS OF THE STRUCTURE.
- (MP) INDICATES INULTED METAL PANEL SYSTEM.
- Δv INDICATES THE AMOUNT OF VERTICAL DEFLECTION OF THE PRIMARY OR SECONDARY STRUCTURE TO BE ACCOMMODATED BY THE CLADDING SYSTEM AND ITS ATTACHMENTS.
- Δh INDICATES THE AMOUNT OF HORIZONTAL OUT OF PLANE DEFLECTION TO BE ACCOMMODATED ON THE CLADDING SYSTEM AND ITS ATTACHMENTS.
- ——— INDICATES MISCELLANEOUS STEEL, SEE S570 SERIES DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
- - - - - - - - - - INDICATES PRIMARY STRUCTURE.
- ——— — — ——— INDICTATES BUILT UP METAL STUD FRAMING DESIGNED BY CONTRACTOR.

CLADDING AND CLADDING BACKUP CRITERIA NOTES:

1. THIS DRAWING INDICATES THE SUPPORT CONDITIONS AND PROVIDES DESIGN CRITERIA FOR PERFORMANCE SPECIFIED CLADDING COMPONENTS AND CLADDING BACKUP SYSTEMS.
2. CLADDING CONTRACTOR SHALL ENGINEER, FURNISH, INSTALL ANY MISCELLANEOUS STEEL AND EMBEDS THAT ARE REQUIRED TO SUPPORT THEIR SYSTEM THAT IS NOT SHOWN ON THIS DRAWING OR THE S570 SERIES DRAWINGS. DO NOT ATTACH TO WOOD BLOCKING.
3. ALL CLADDING AND CLADDING COMPONENT CONNECTIONS TO THE STRUCTURAL SYSTEM MUST ACCOMMODATE BUILDING MOVEMENTS INDICATED ON THIS DRAWING.
4. EACH CLADDING ENGINEER MUST COORDINATE REACTIONS ON THEIR SYSTEM FROM OTHER CLADDING SYSTEMS.
5. SEE DESIGN INFORMATION DRAWING FOR WIND PRESSURE DESIGN PARAMETERS.
6. DEFLECTION CHECKS SHALL BE AT FULL NOMINAL (ASD) PRESSURE, UNLESS REDUCED PRESSURE CRITERIA FOR SERVICEABILITY IS OTHERWISE INDICATED.
7. REGIONS NEAR ALL DISCONTINUITIES INCLUDING CORNERS, SOFFITS AND PARAPETS SHALL BE DESIGNED FOR ZONE 5 PRESSURES PER MINIMUM WALL CLADDING DESIGN PRESSURES ON DESIGN INFORMATION DRAWING.
8. METAL STUD FRAMING TO ACCEPT VERTICAL AND LATERAL LOADS FROM WINDOW SYSTEMS AND STONE SILLS. ADDITIONAL COLD FORMED PLATES AND ANGLES REQUIRED FOR WINDOW AND STONE SILL SUPPORT ARE TO BE ENGINEERED AND SUPPLIED BY COLD FORMED METAL FRAMING SUPPLIER. SEE ARCHITECTURAL SECTIONS FOR ADDITIONAL INFORMATION.

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER
REGISTERED
No. 10504738
STATE OF INDIANA
PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
CLADDING DESIGN CRITERIA ELEVATIONS

SHEET NUMBER
S-007

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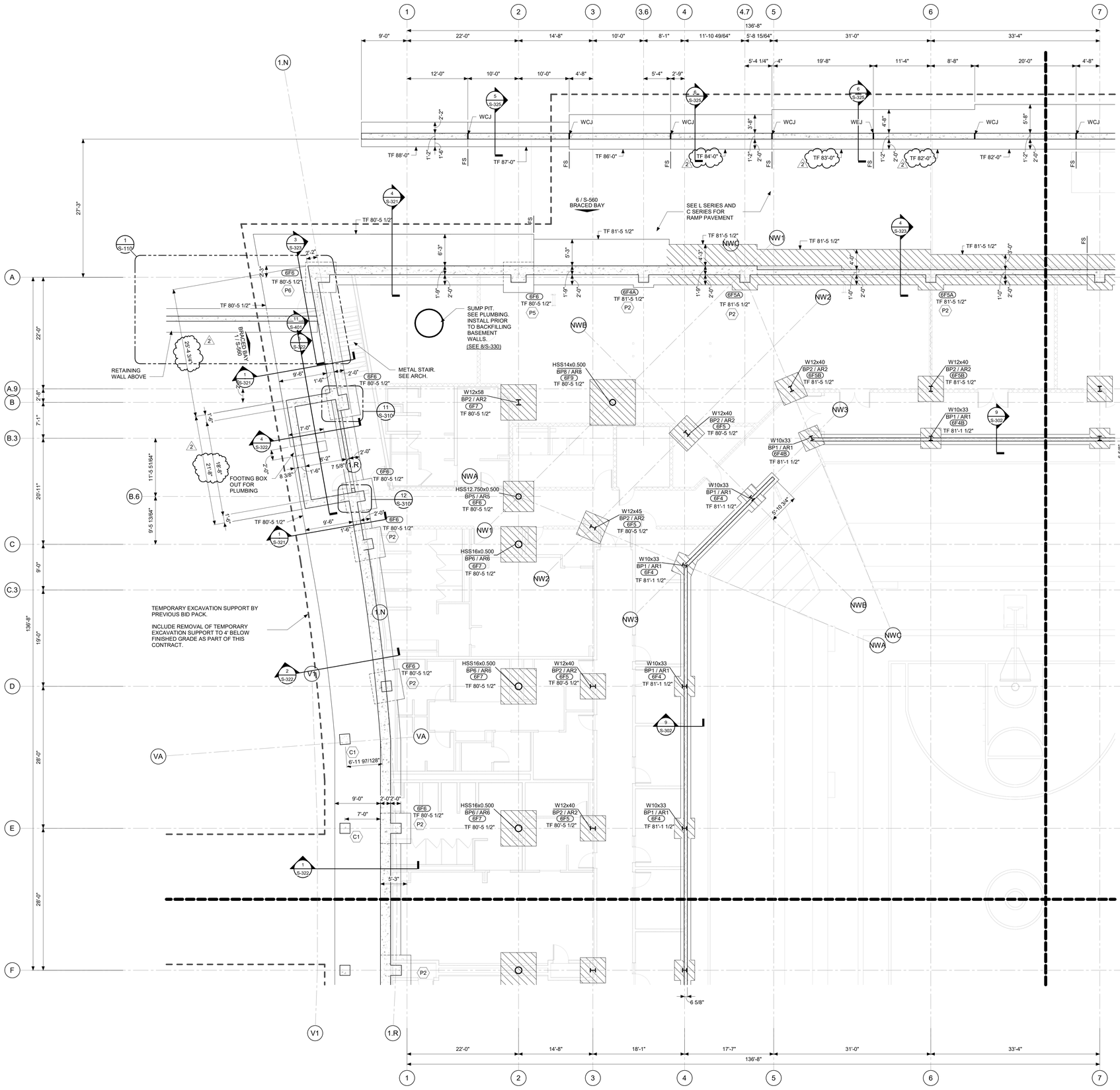

1 EVENT LEVEL PLAN - UNIT A
SCALE: 1/8" = 1'-0"

TOP OF SLAB ON GRADE = 82' 5 1/2", TYP. UNO

NORTH

1/24/2025 3:12:52 PM

FOUNDATION PLAN NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE DRAWING S-302 FOR TYPICAL FOUNDATION DETAILS.
6. SEE DRAWING S-310 FOR TYPICAL PIER DETAILS.
7. SEE DRAWING S-320 FOR TYPICAL WALL DETAILS.
8. SEE DRAWING S-400 FOR TYPICAL CMU WALL DETAILS.
9. SEE DRAWING S-500 FOR STRUCTURAL STEEL COLUMN BASE PLATE AND ANCHOR ROD DETAILS.

LEGEND

- (BFX) INDICATES FOOTING MARK. "B" INDICATES REQUIRED BEARING CAPACITY IN KSF AND FX INDICATES FOOTING MARK.
- TF INDICATES TOP OF FOOTING ELEVATION.
- (PX) INDICATES CONCRETE PIER MARK. SEE DRAWING S-310 FOR TYPICAL DETAILS.
- TP INDICATES TOP OF PIER ELEVATION.
- FS INDICATES FOOTING STEP.
- ARX INDICATES ANCHOR ROD MARK. SEE S-501 FOR DETAILS.
- BPX INDICATES BASE PLATE MARK. SEE S-503 FOR DETAILS.
- WCJ INDICATES WALL CONTROL JOINT.
- WEJ INDICATES WALL EXPANSION JOINT.
- TW INDICATES TOP OF WALL ELEVATION.
- LE INDICATES TOP OF LEDGE ELEVATION.
- INDICATES MASONRY WALL. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

UNDERCUT UNSUITABLE SOILS BELOW FOOTINGS AND REPLACE WITH COMPACTED ENGINEERED FILL OR LEAN CONCRETE.
BID SHALL BE BASED ON UNSUITABLE SOILS DOWN TO ELEVATION 686'.

AGGREGATE PIERS AT FOOTINGS IN NON-BASEMENT FOOTINGS.

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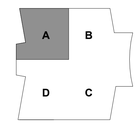

KEY PLAN

SEAL | DATE 01/27/25



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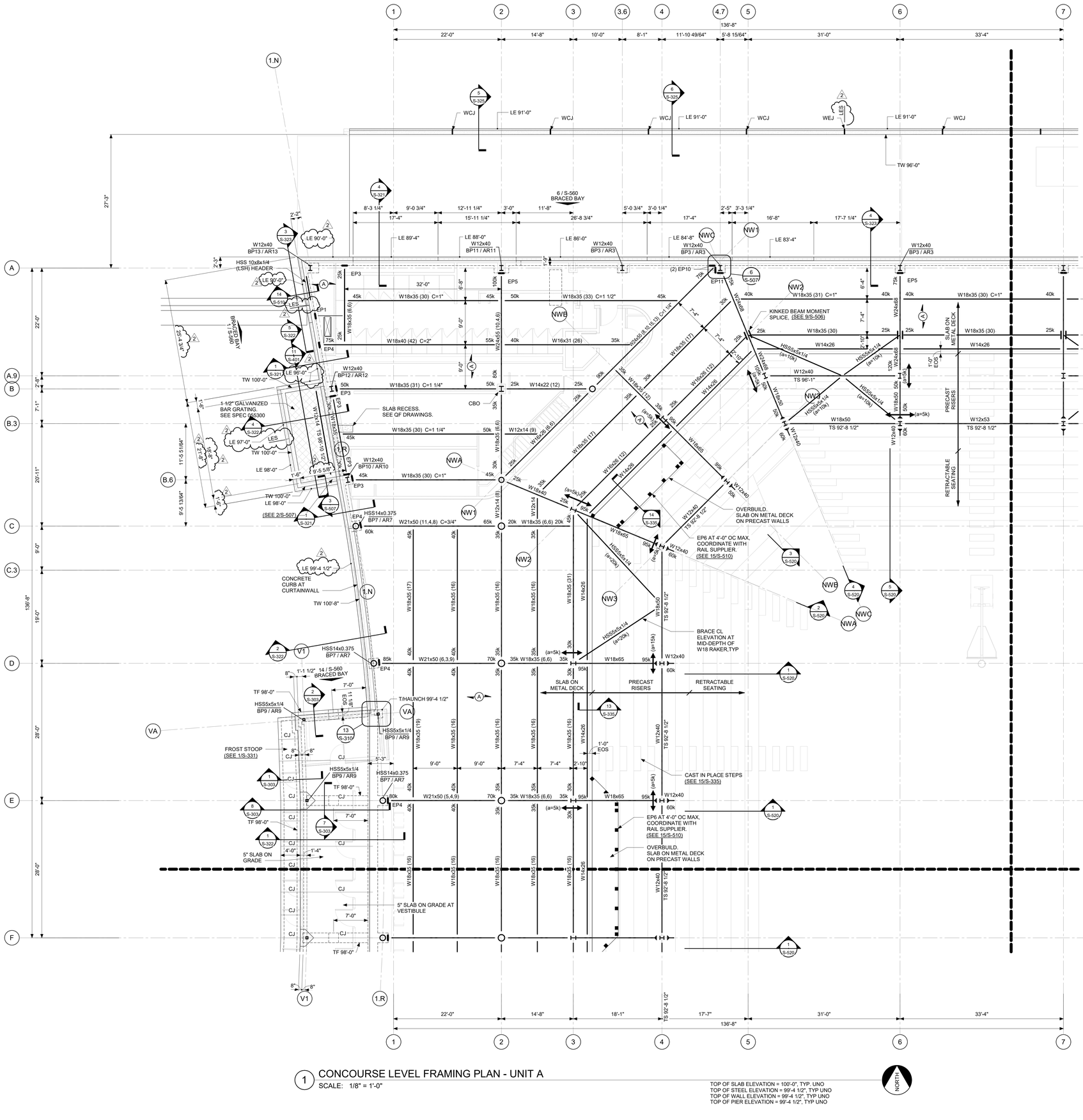
PROJECT NO. 23112.000

SHEET TITLE
EVENT LEVEL FOUNDATION PLAN - UNIT A

SHEET NUMBER
S-101A



1 CONCOURSE LEVEL FRAMING PLAN - UNIT A

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

TOP OF SLAB ELEVATION = 100'-0", TYP. UNO
TOP OF STEEL ELEVATION = 99'-4 1/2", TYP UNO
TOP OF WALL ELEVATION = 99'-4 1/2", TYP UNO
TOP OF PIER ELEVATION = 99'-4 1/2", TYP UNO

NORTH

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STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE DRAWING S-320 FOR TYPICAL CAST-IN-PLACE CONCRETE WALL DETAILS.
6. SEE DRAWING S-335 FOR TYPICAL COMPOSITE SLAB REINFORCING DETAILS.
7. SEE DRAWING S-400 FOR TYPICAL CMU WALL DETAILS.
8. SEE DRAWING S-500 FOR TYPICAL EMBED DETAILS.
9. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
10. SEE DRAWING S-510 FOR TYPICAL STRUCTURAL STEEL FLOOR FRAMING DETAILS.
11. SEE S-520 SERIES FOR STRUCTURAL STEEL RAKER ELEVATIONS AND DETAILS.
12. SEE DRAWING S-530 FOR TYPICAL STRUCTURAL STEEL ROOF FRAMING DETAILS.
13. SEE S-560 SERIES DRAWINGS FOR BRACING ELEVATIONS AND DETAILS.
14. SEE S-570 SERIES DRAWINGS FOR CLADDING STEEL ELEVATIONS AND DETAILS.
15. VERTICAL SHEAR REACTIONS (XXk) ARE INDICATED AT THE ENDS OF SOME BEAMS. SEE STRUCTURAL STEEL GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.

LEGEND

- (A) — INDICATES SPAN DIRECTION OF 4 1/2" NORMAL WEIGHT CONCRETE ON 3", 18 GAGE COMPOSITE STEEL FLOOR DECK (7 1/2" TOTAL THICKNESS).
- CAO — INDICATES COLUMN ABOVE ONLY.
- CBO — INDICATES COLUMN BELOW ONLY.
- TB — INDICATES TOP OF BEAM ELEVATION.
- INDICATES OPENING IN SLAB. COORDINATE DIMENSIONS WITH MEP CONTRACTOR AND PROVIDE ADDITIONAL SLAB REINFORCING AROUND OPENING IN ACCORDANCE WITH THE GENERAL NOTES AND TYPICAL DETAILS. SEE DRAWING S-510 FOR TYPICAL FRAMING DETAIL.
- RD OD — INDICATES ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCHITECTURAL/PLUMBING DRAWINGS.
- EPX — INDICATES EMBEDDED PLATE MARK. SEE DRAWING S-500 FOR DETAILS.
- INDICATES HORIZONTAL SLEEVE THROUGH BEAM WEB. SEE S-500 SERIES DRAWINGS FOR TYPICAL DETAIL.
- C=1" — INDICATES BEAM CAMBER.
- (XX) — INDICATES NUMBER OF HEADED SHEAR STUD CONNECTORS ON BEAM. SEE DRAWING S-510 FOR LAYOUT DETAILS.
- (a=XXX) — INDICATES AXIAL FORCE AT CONNECTION. DESIGN CONNECTION FOR COMBINED SHEAR AND AXIAL LOADS. AXIAL LOADS CAN BE APPLIED IN BOTH TENSION AND COMPRESSION.
- (M=XXX) — INDICATES MOMENT REACTION AT CONNECTION. DESIGN CONNECTION FOR COMBINED SHEAR, AXIAL AND MOMENT LOADS. MOMENTS ARE REVERSIBLE.
- INDICATES BEAM TO HSS COLUMN MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES BEAM TO W COLUMN MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES BEAM THROUGH GIRDER MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES DIAGONAL KICKERS OR BRIDGING BELOW.
- EOS — INDICATES EDGE OF SLAB.
- CJ — INDICATES CONTROL JOINT.

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KEY PLAN

SEAL | DATE 01/27/25



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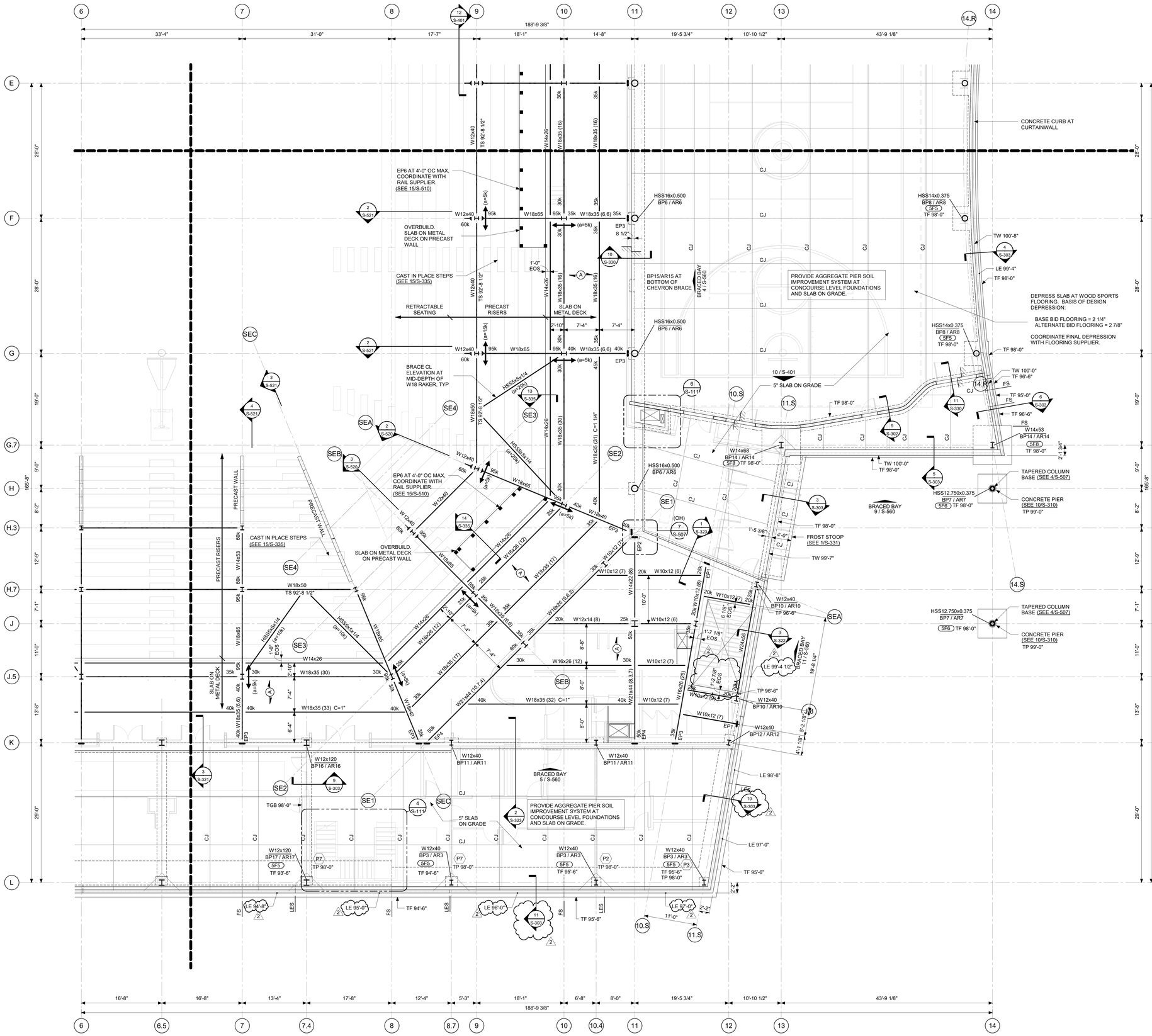
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE LEVEL PLAN - UNIT A

SHEET NUMBER
S-102A



1 CONCOURSE LEVEL FRAMING PLAN - UNIT C
SCALE: 1/8" = 1'-0"

TOP OF SLAB ELEVATION = 100'-0", TYP. UNO
TOP OF STEEL ELEVATION = 99'-4 1/2", TYP UNO
TOP OF WALL ELEVATION = 99'-4 1/2", TYP UNO
TOP OF PIER ELEVATION = 99'-4 1/2", TYP UNO

NORTH

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STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE DRAWING S-320 FOR TYPICAL CAST-IN-PLACE CONCRETE WALL DETAILS.
6. SEE DRAWING S-335 FOR TYPICAL COMPOSITE SLAB REINFORCING DETAILS.
7. SEE DRAWING S-400 FOR TYPICAL CMU WALL DETAILS.
8. SEE DRAWING S-500 FOR TYPICAL EMBED DETAILS.
9. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
10. SEE DRAWING S-510 FOR TYPICAL STRUCTURAL STEEL FLOOR FRAMING DETAILS.
11. SEE S-520 SERIES FOR STRUCTURAL STEEL RAKER ELEVATIONS AND DETAILS.
12. SEE DRAWING S-530 FOR TYPICAL STRUCTURAL STEEL ROOF FRAMING DETAILS.
13. SEE S-560 SERIES DRAWINGS FOR BRACING ELEVATIONS AND DETAILS.
14. SEE S-570 SERIES DRAWINGS FOR CLADDING STEEL ELEVATIONS AND DETAILS.
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LEGEND

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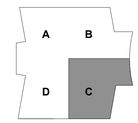
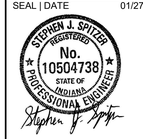


KEY PLAN

SEAL | DATE 01/27/25



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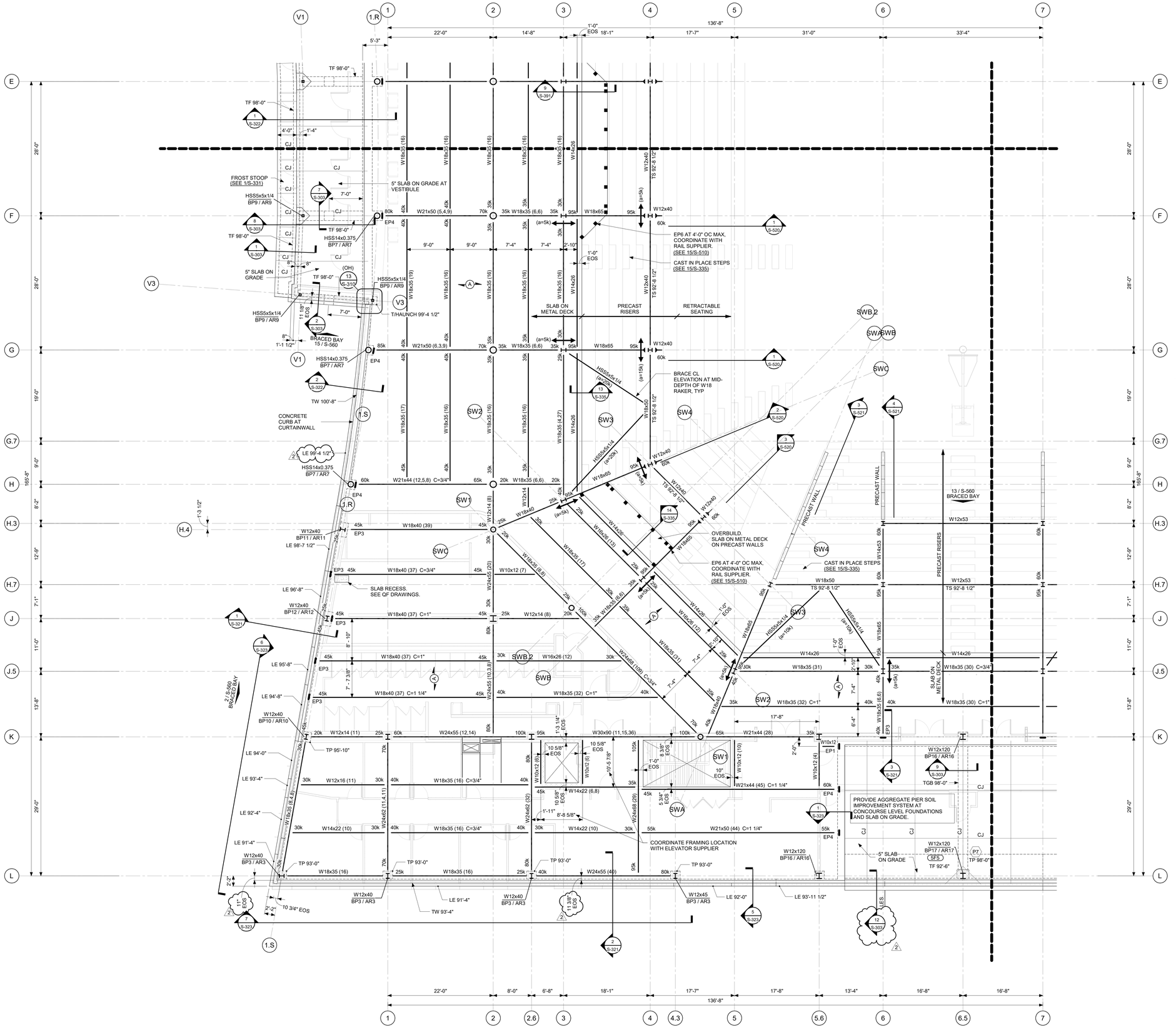
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE LEVEL PLAN - UNIT C

SHEET NUMBER
S-102C



1 CONCOURSE LEVEL FRAMING PLAN - UNIT D
SCALE: 1/8" = 1'-0"

TOP OF SLAB ELEVATION = 100'-0", TYP. UNO
TOP OF STEEL ELEVATION = 99'-4 1/2", TYP UNO
TOP OF WALL ELEVATION = 99'-4 1/2", TYP UNO
TOP OF PIER ELEVATION = 99'-4 1/2", TYP UNO

NORTH

1/24/2025 3:12:59 PM

STRUCTURAL STEEL FRAMING NOTES:

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LEGEND

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RD OD	INDICATES ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCHITECTURAL/PLUMBING DRAWINGS.
EPX	INDICATES EMBEDDED PLATE MARK. SEE DRAWING S-500 FOR DETAILS.
	INDICATES HORIZONTAL SLEEVE THROUGH BEAM WEB. SEE S-500 SERIES DRAWINGS FOR TYPICAL DETAIL.
C=1"	INDICATES BEAM CAMBER.
(XX)	INDICATES NUMBER OF HEADED SHEAR STUD CONNECTORS ON BEAM. SEE DRAWING S-510 FOR LAYOUT DETAILS.
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Code Consultant
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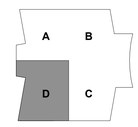

KEY PLAN

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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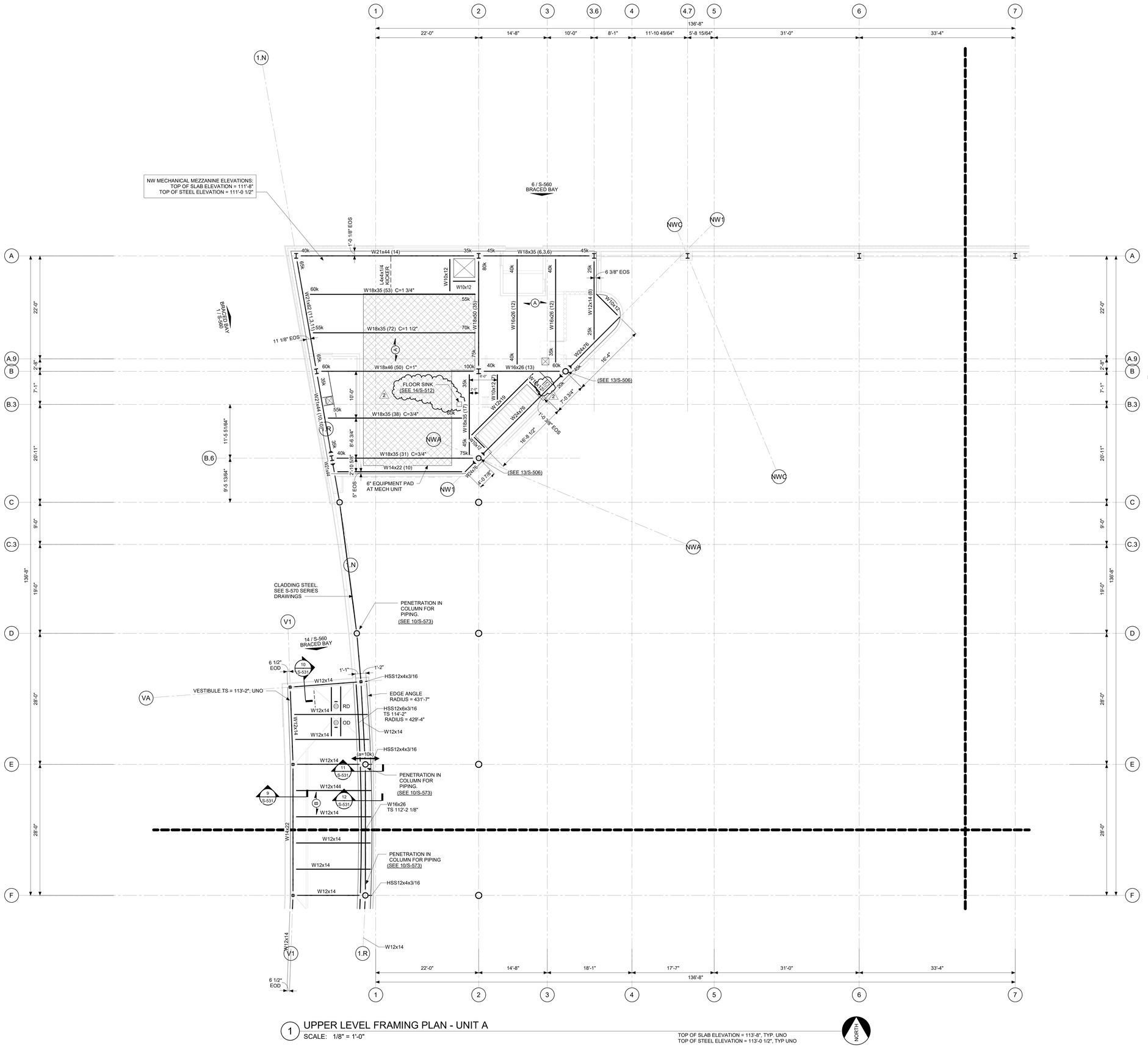
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE LEVEL PLAN - UNIT D

SHEET NUMBER
S-102D



1 UPPER LEVEL FRAMING PLAN - UNIT A
SCALE: 1/8" = 1'-0"

TOP OF SLAB ELEVATION = 113'-8", TYP. UNO
TOP OF STEEL ELEVATION = 113'-0 1/2", TYP UNO

NORTH

STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE DRAWING S-335 FOR TYPICAL COMPOSITE SLAB REINFORCING DETAILS.
6. SEE DRAWING S-400 FOR TYPICAL CMU WALL DETAILS.
7. SEE DRAWING S-500 FOR TYPICAL EMBED DETAILS.
8. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
9. SEE DRAWING S-510 FOR TYPICAL STRUCTURAL STEEL FLOOR FRAMING DETAILS.
10. SEE DRAWING S-530 FOR TYPICAL STRUCTURAL STEEL ROOF FRAMING DETAILS.
11. SEE S-560 SERIES DRAWINGS FOR BRACING ELEVATIONS AND DETAILS.
12. SEE S570 SERIES DRAWINGS FOR STEEL CLADDING ELEVATIONS AND DETAILS.
13. VERTICAL SHEAR REACTIONS (XXk) ARE INDICATED AT THE ENDS OF SOME BEAMS. SEE STRUCTURAL STEEL GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.

LEGEND

- (A) — INDICATES SPAN DIRECTION OF 4 1/2" NORMAL WEIGHT CONCRETE ON 3", 18 GAGE COMPOSITE STEEL FLOOR DECK (7 1/2" TOTAL THICKNESS).
- (B) — INDICATES SPAN DIRECTION OF 1 1/2", 20 GAGE, METAL ROOF DECK. SEE S-530 FOR FASTENING REQUIREMENTS.
- CAO — INDICATES COLUMN ABOVE ONLY.
- CBO — INDICATES COLUMN BELOW ONLY.
- TB — INDICATES TOP OF BEAM ELEVATION.
- INDICATES OPENING IN SLAB. COORDINATE DIMENSIONS WITH MEP CONTRACTOR AND PROVIDE ADDITIONAL SLAB REINFORCING AROUND OPENING IN ACCORDANCE WITH THE GENERAL NOTES AND TYPICAL DETAILS. SEE DRAWING S-510 FOR TYPICAL FRAMING DETAIL.
- RD OD — INDICATES ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCHITECTURAL/PLUMBING DRAWINGS.
- EPX — INDICATES EMBEDDED PLATE MARK. SEE DRAWING S-500 FOR DETAILS.
- INDICATES HORIZONTAL SLEEVE THROUGH BEAM WEB. SEE S-500 SERIES DRAWINGS FOR TYPICAL DETAIL.
- C=1" — INDICATES BEAM CAMBER.
- (XX) — INDICATES NUMBER OF HEADED SHEAR STUD CONNECTORS ON BEAM. SEE DRAWING S-510 FOR LAYOUT DETAILS.
- (a=XXX) — INDICATES AXIAL FORCE AT CONNECTION. DESIGN CONNECTION FOR COMBINED SHEAR AND AXIAL LOADS. AXIAL LOADS CAN BE APPLIED IN BOTH TENSION AND COMPRESSION.
- (M=XXX) — INDICATES MOMENT REACTION AT CONNECTION. DESIGN CONNECTION FOR COMBINED SHEAR, AXIAL AND MOMENT LOADS. MOMENTS ARE REVERSIBLE.
- INDICATES BEAM TO HSS COLUMN MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES BEAM TO W COLUMN MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES BEAM THROUGH GIRDER MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES DIAGONAL KICKERS OR BRIDGING BELOW. SEE 11/S-530
- EOS — INDICATES EDGE OF SLAB.

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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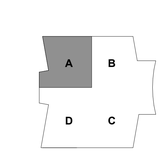

KEY PLAN

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
UPPER LEVEL PLAN - UNIT A

SHEET NUMBER
S-103A

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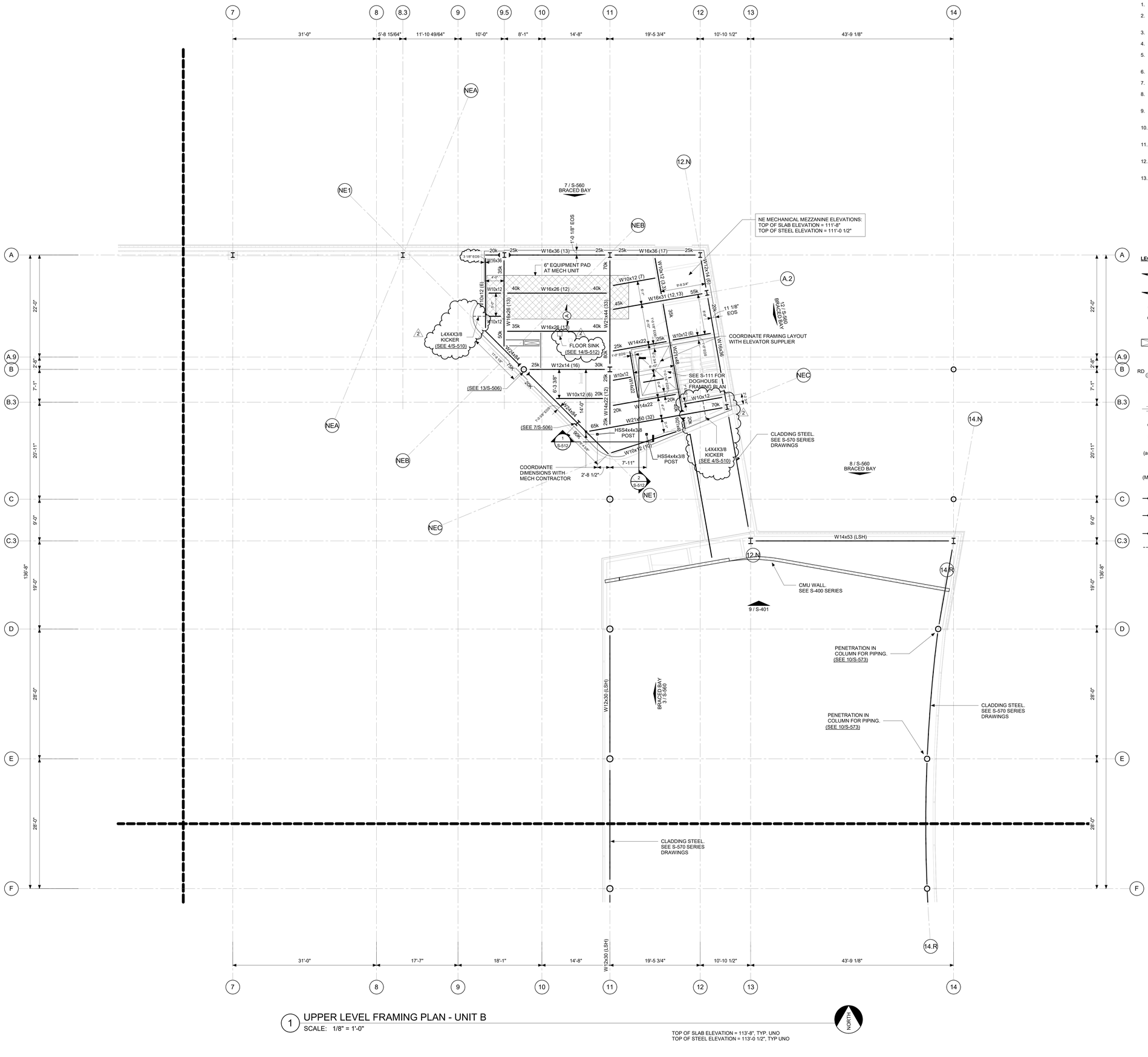

1 UPPER LEVEL FRAMING PLAN - UNIT B
SCALE: 1/8" = 1'-0"

TOP OF SLAB ELEVATION = 113'-8", TYP. UNO
TOP OF STEEL ELEVATION = 113'-0 1/2", TYP UNO

STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE DRAWING S-335 FOR TYPICAL COMPOSITE SLAB REINFORCING DETAILS.
6. SEE DRAWING S-400 FOR TYPICAL CMU WALL DETAILS.
7. SEE DRAWING S-500 FOR TYPICAL EMBED DETAILS.
8. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
9. SEE DRAWING S-510 FOR TYPICAL STRUCTURAL STEEL FLOOR FRAMING DETAILS.
10. SEE DRAWING S-530 FOR TYPICAL STRUCTURAL STEEL ROOF FRAMING DETAILS.
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LEGEND

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- (B) INDICATES SPAN DIRECTION OF 1 1/2", 20 GAGE, METAL ROOF DECK. SEE S-530 FOR FASTENING REQUIREMENTS.
- CAO INDICATES COLUMN ABOVE ONLY.
- CBO INDICATES COLUMN BELOW ONLY.
- TB INDICATES TOP OF BEAM ELEVATION.
- INDICATES OPENING IN SLAB. COORDINATE DIMENSIONS WITH MEP CONTRACTOR AND PROVIDE ADDITIONAL SLAB REINFORCING AROUND OPENING IN ACCORDANCE WITH THE GENERAL NOTES AND TYPICAL DETAILS. SEE DRAWING S-510 FOR TYPICAL FRAMING DETAIL.
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- INDICATES BEAM THROUGH GIRDER MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES DIAGONAL KICKERS OR BRIDGING BELOW. SEE 11/S-530
- EOS INDICATES EDGE OF SLAB.

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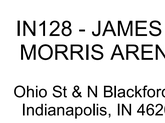

KEY PLAN

SEAL | DATE 01/27/25



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PROJECT NO. 23112.000

SHEET TITLE
UPPER LEVEL PLAN - UNIT B

SHEET NUMBER
S-103B

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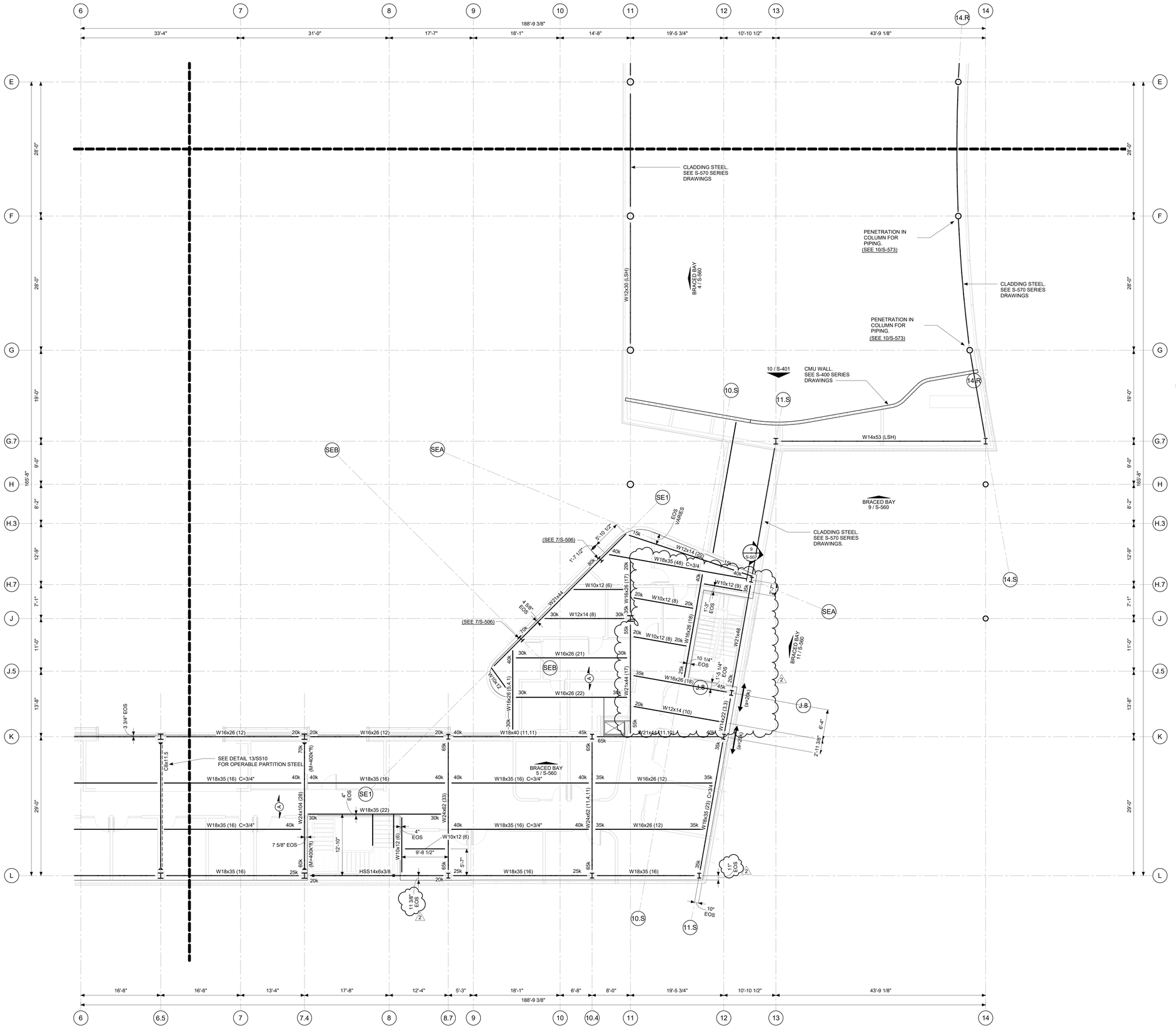

1 UPPER LEVEL FRAMING PLAN - UNIT C
SCALE: 1/8" = 1'-0"

TOP OF SLAB ELEVATION = 113'-8", TYP. UNO
TOP OF STEEL ELEVATION = 113'-0 1/2", TYP UNO

NORTH

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STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
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7. SEE DRAWING S-500 FOR TYPICAL EMBED DETAILS.
8. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
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	INDICATES DIAGONAL KICKERS OR BRIDGING BELOW. SEE 11/S-530
EOS	INDICATES EDGE OF SLAB.

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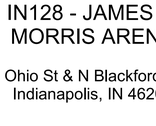

KEY PLAN

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

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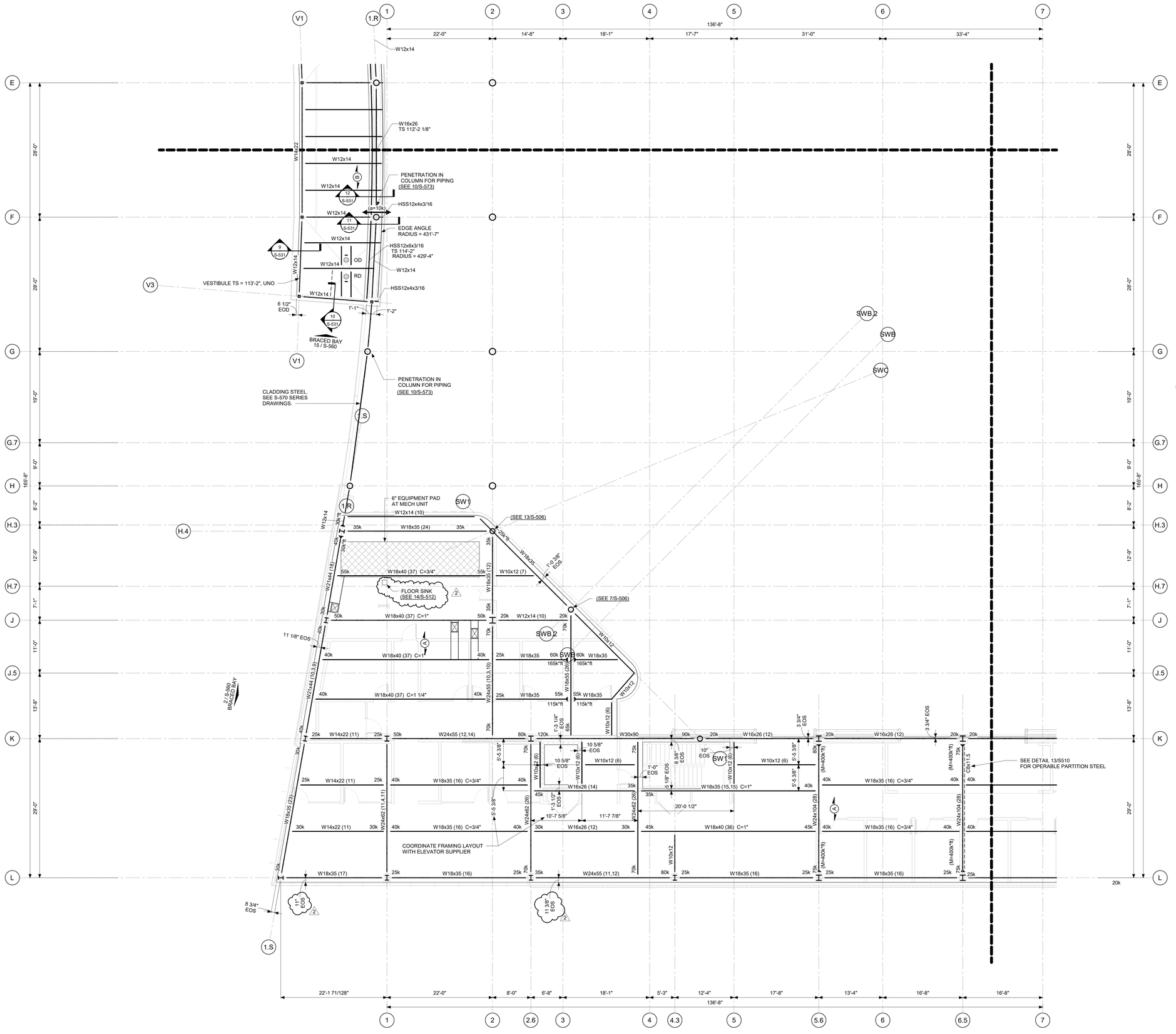
PROJECT NO. 23112.000

SHEET TITLE
UPPER LEVEL PLAN - UNIT C

SHEET NUMBER
S-103C



1 UPPER LEVEL FRAMING PLAN - UNIT D
SCALE: 1/8" = 1'-0"

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STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
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LEGEND

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Code Consultant
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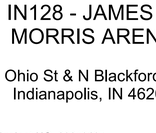
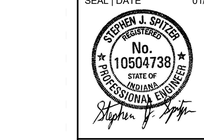


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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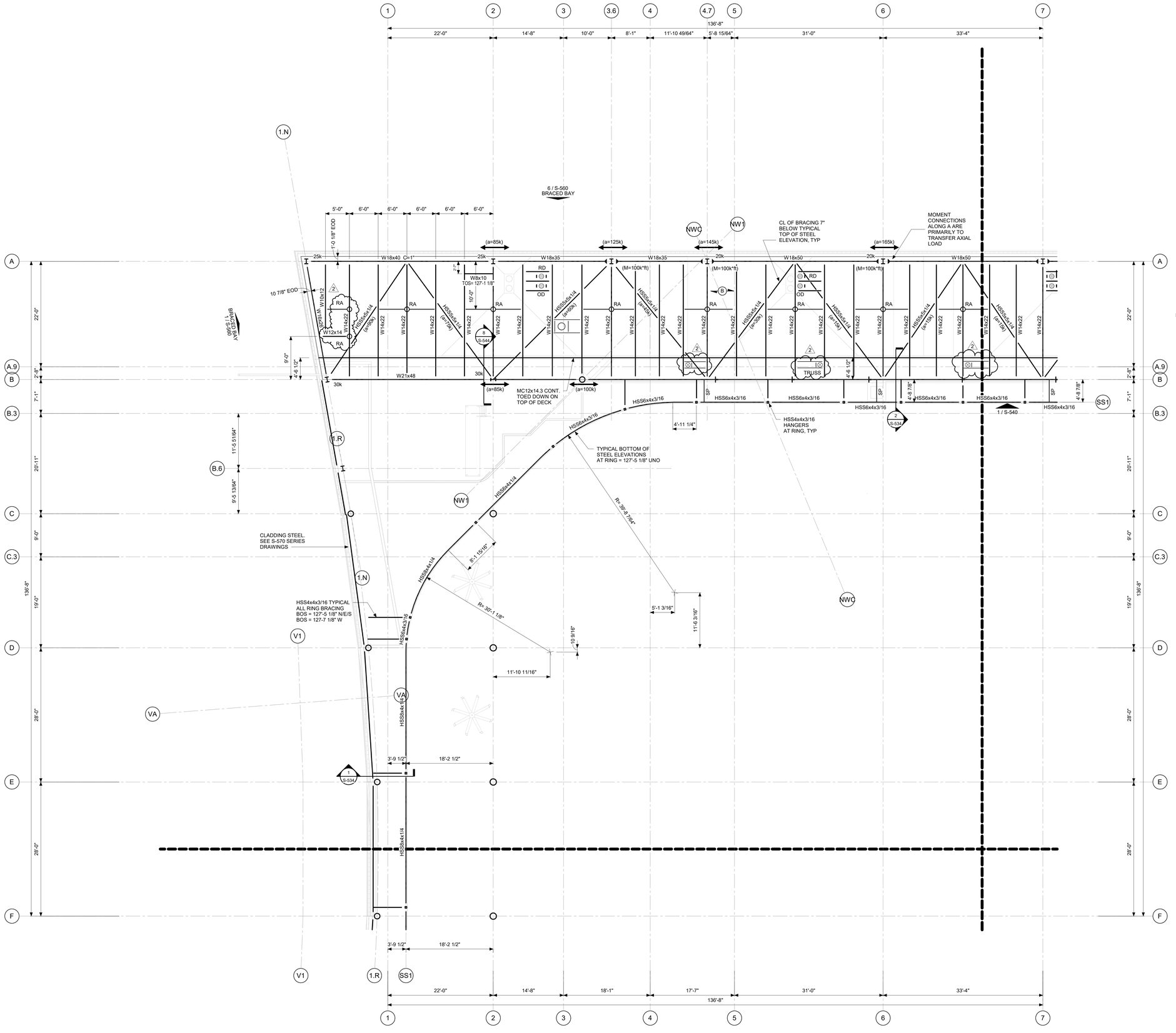
PROJECT NO. 23112.000

SHEET TITLE
UPPER LEVEL PLAN - UNIT D

SHEET NUMBER
S-103D



1 LOW ROOF FRAMING PLAN - UNIT A
SCALE: 1/8" = 1'-0"

TOP OF STEEL ELEVATION = 127'-4" TYP, UNO

NORTH

1/24/2025 3:13:07 PM

STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S-000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE DRAWING S-400 SERIES DRAWINGS FOR TYPICAL CMU WALL DETAILS.
6. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
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8. SEE S-540 SERIES DRAWINGS FOR STRUCUTRAL STEEL ROOF TRUSS ELEVATIONS AND DETAILS.
9. SEE S-560 SERIES DRAWINGS FOR BRACING ELEVATIONS AND DETAILS.
10. SEE S-570 SERIES DRAWINGS FOR CLADDING STEEL ELEVATIONS AND DETAILS.
11. VERTICAL SHEAR REACTIONS (XXk) ARE INDICATED AT THE ENDS OF SOME BEAMS. SEE STRUCTURAL STEEL GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.

LEGEND

- (B) — INDICATES SPAN DIRECTION OF 1 1/2", 20 GAGE, METAL ROOF DECK. SEE S-530 FOR DECK FASTENING REQUIREMENTS.
- CAO — INDICATES COLUMN ABOVE ONLY.
- CBO — INDICATES COLUMN BELOW ONLY.
- TB — INDICATES TOP OF BEAM ELEVATION.
- INDICATES OPENING IN DECK. COORDINATE DIMENSIONS WITH MEP CONTRACTOR. SEE DRAWING S-530 FOR TYPICAL FRAMING DETAIL.
- RD OD — INDICATES ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCHITECTURAL/PLUMBING DRAWINGS.
- INDICATES HORIZONTAL SLEEVE THROUGH BEAM WEB. SEE S500 SERIES DRAWINGS FOR TYPICAL DETAIL.
- (a=XXX) — INDICATES AXIAL FORCE AT CONNECTION. DESIGN CONNECTION FOR COMBINED SHEAR AND AXIAL LOADS. AXIAL LOADS CAN BE APPLIED IN BOTH TENSION AND COMPRESSION.
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- INDICATES BEAM THROUGH GIRDER MOMENT CONNECTION. SEE S-500 SERIES DRAWINGS FOR CONNECTION DETAIL.
- INDICATES DIAGONAL KICKERS OR BRIDGING BELOW. (SEE 11/S-530)
- RA — INDICATES ROOF ANCHOR. (SEE 10/S-530)
- SP — INDICATES SPEAKER SUPPORT. (SEE 8/S-534)

IN128 - JAMES T. MORRIS ARENA

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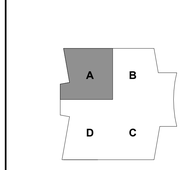

KEY PLAN

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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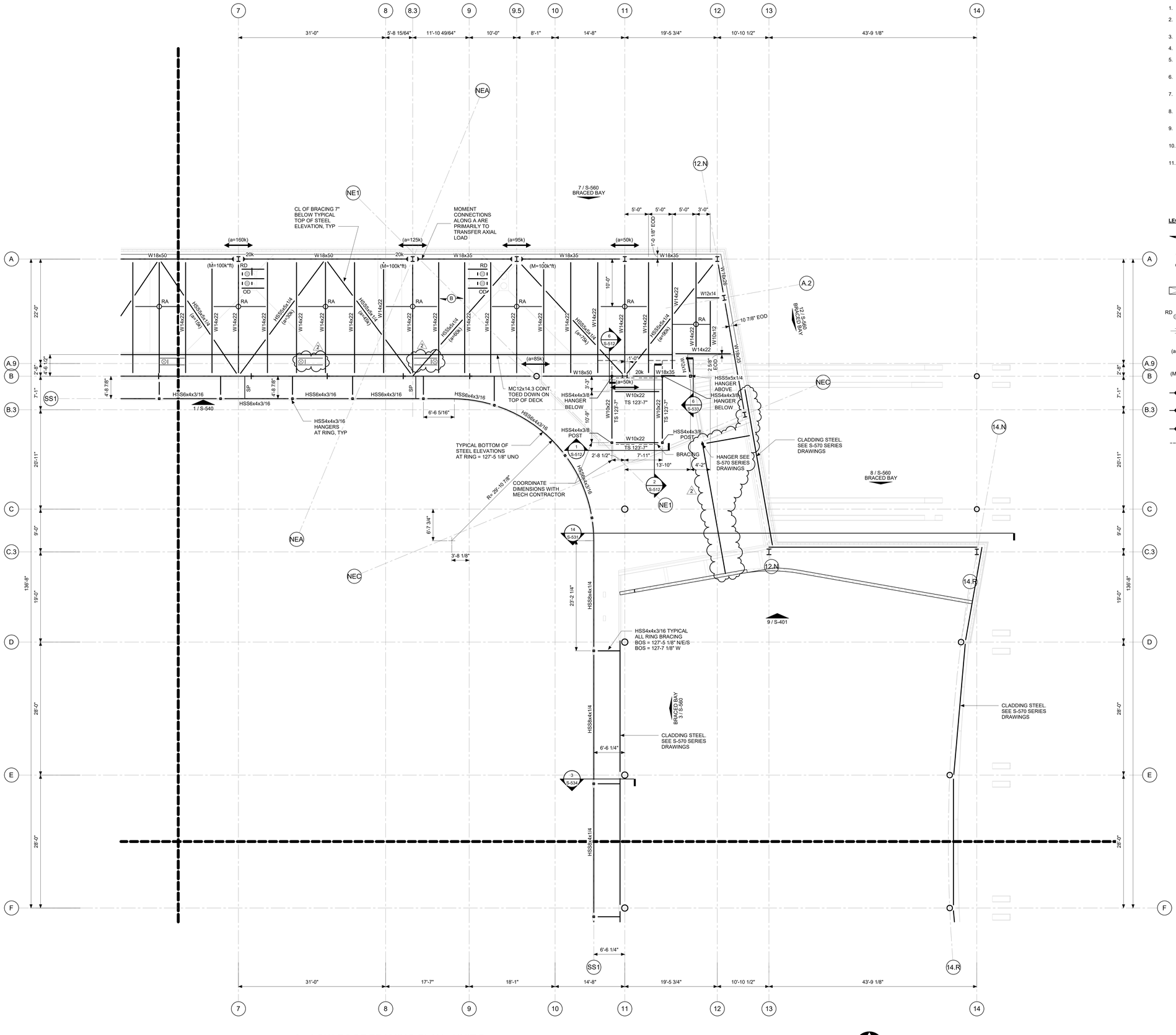
PROJECT NO. 23112.000

SHEET TITLE
LOW ROOF PLAN - UNIT A

SHEET NUMBER
S-104A



1 LOW ROOF FRAMING PLAN - UNIT B
SCALE: 1/8" = 1'-0"

TOP OF STEEL ELEVATION = 127'-4" TYP, UNO

NORTH

1/24/2025 3:13:09 PM

STRUCTURAL STEEL FRAMING NOTES:

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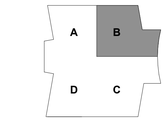

KEY PLAN

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

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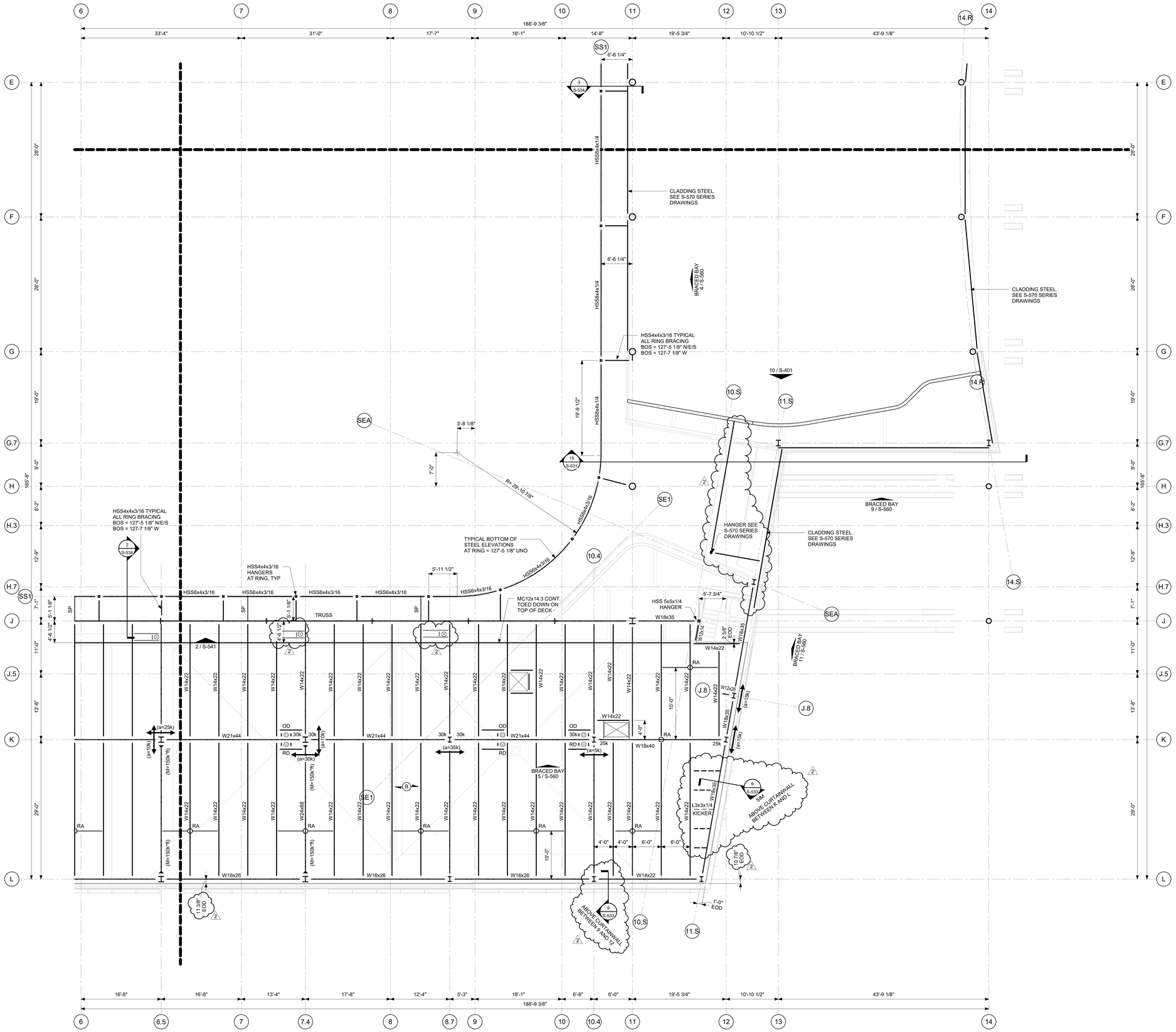
PROJECT NO. 23112.000

SHEET TITLE
LOW ROOF PLAN - UNIT B

SHEET NUMBER
S-104B



1 LOW ROOF FRAMING PLAN - UNIT C
SCALE: 1/8" = 1'-0"

TOP OF STEEL ELEVATION = 127'-4" TYP, UNO

NORTH

1/24/2025 3:13:11 PM

STRUCTURAL STEEL FRAMING NOTES:

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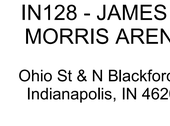
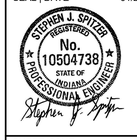


KEY PLAN

SEAL | DATE 01/27/25



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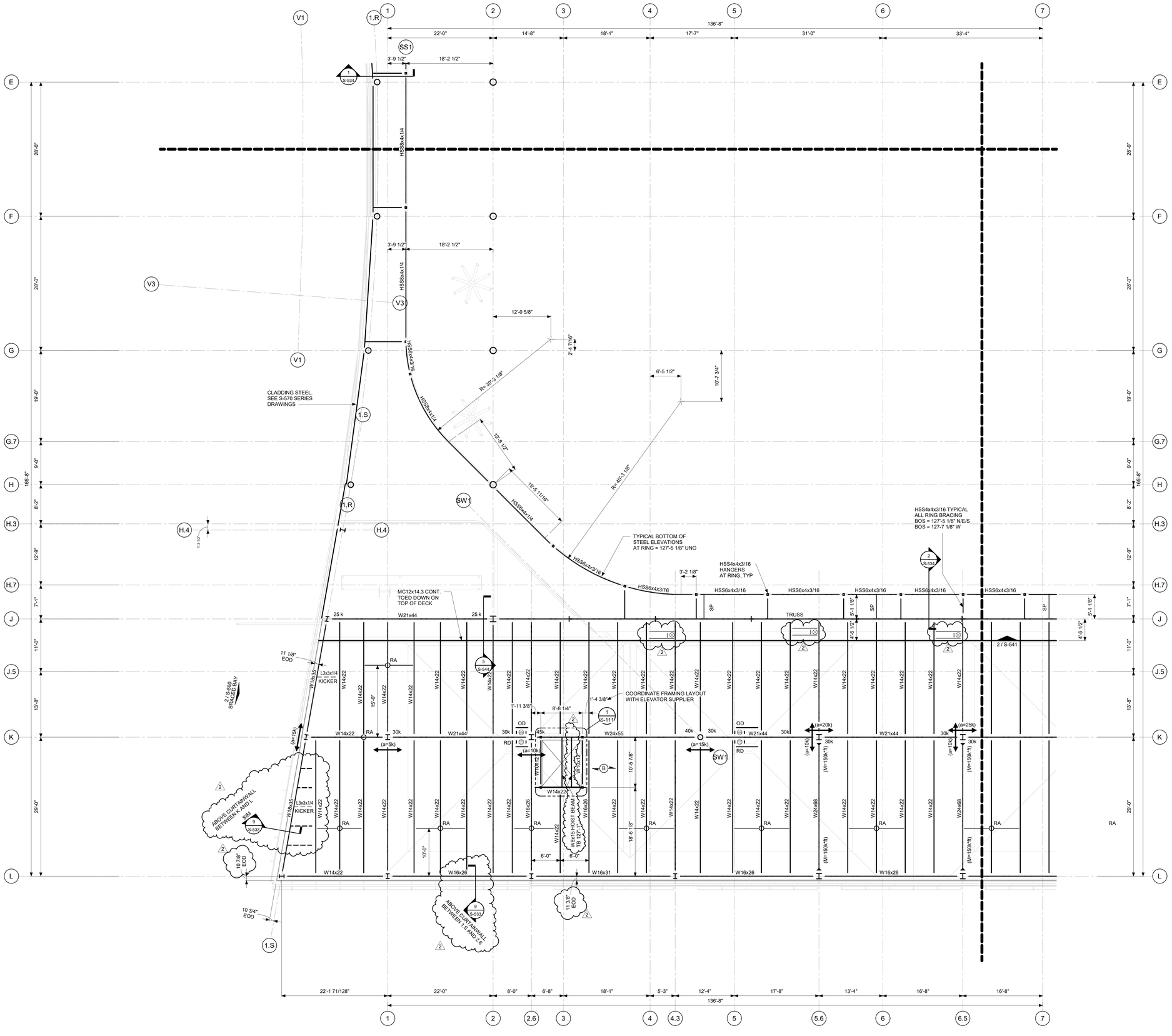
PROJECT NO. 23112.000

SHEET TITLE
LOW ROOF PLAN - UNIT C

SHEET NUMBER
S-104C



1 LOW ROOF FRAMING PLAN - UNIT D
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NORTH

1/24/2025 3:13:12 PM

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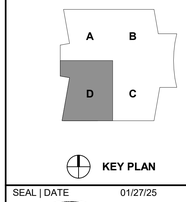
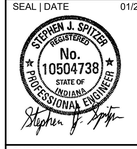


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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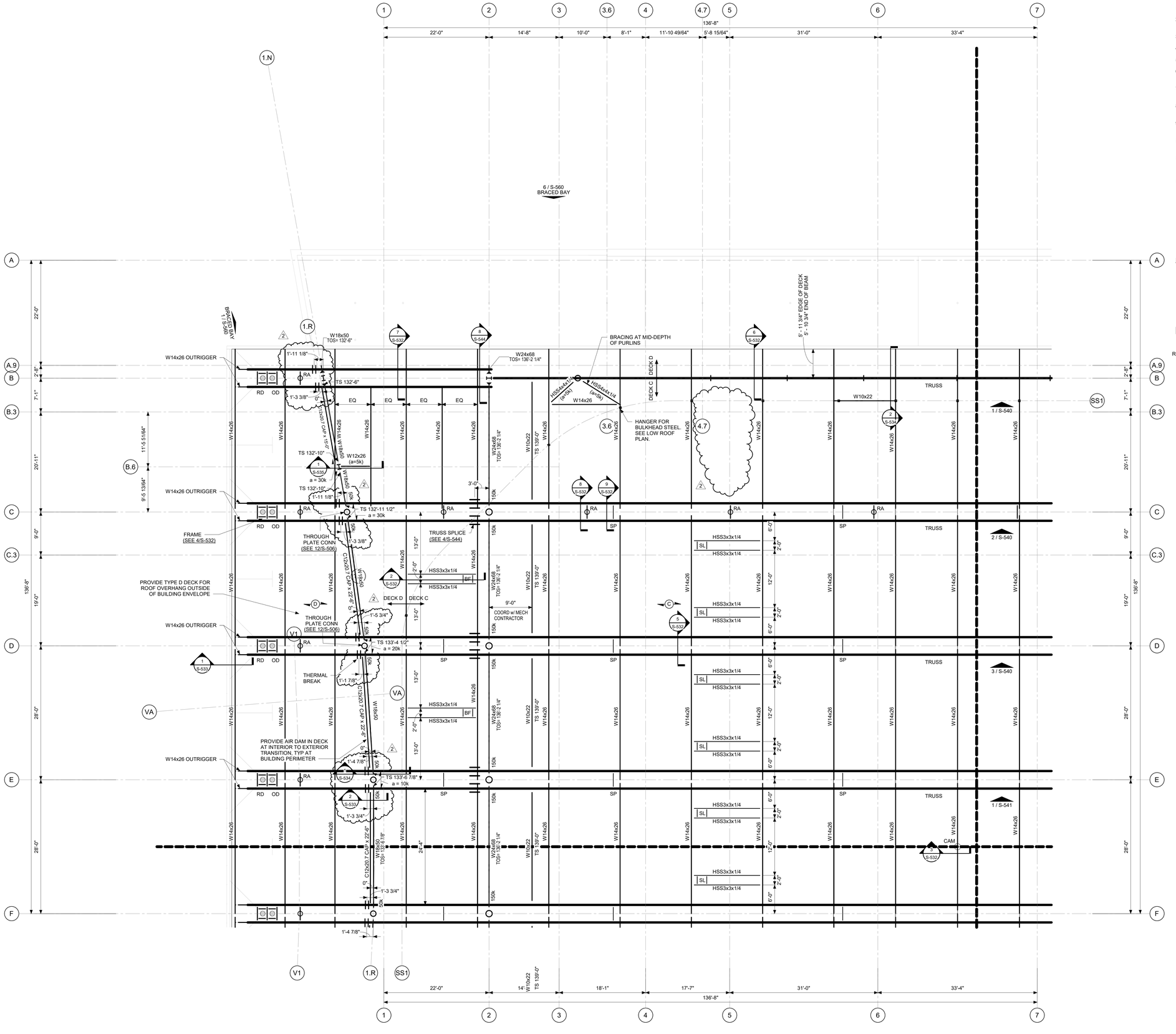
PROJECT NO. 23112.000

SHEET TITLE
LOW ROOF PLAN - UNIT D

SHEET NUMBER
S-104D



1 HIGH ROOF FRAMING PLAN - UNIT A
SCALE: 1/8" = 1'-0"

NORTH

1/24/2025 3:13:14 PM

STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S-000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-005 FOR STRUCTURAL FINISHES.
4. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
5. SEE S-400 SERIES DRAWINGS FOR TYPICAL CMU WALL DETAILS.
6. SEE S-500 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL CONNECTION DETAILS.
7. SEE S-530 SERIES DRAWINGS FOR TYPICAL STRUCTURAL STEEL ROOF FRAMING DETAILS.
8. SEE S-540 SERIES DRAWINGS FOR STRUCUTRAL STEEL ROOF TRUSS ELEVATIONS AND DETAILS.
9. SEE S-560 SERIES DRAWINGS FOR BRACING ELEVATIONS AND DETAILS.
10. SEE S-570 SERIES DRAWINGS FOR CLADDING STEEL ELEVATIONS AND DETAILS.
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LEGEND

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TB	INDICATES TOP OF BEAM ELEVATION.
	INDICATES OPENING IN DECK. COORDINATE DIMENSIONS WITH MEP CONTRACTOR. SEE DRAWING S-530 FOR TYPICAL FRAMING DETAIL.
RD OD	INDICATES ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCHITECTURAL/PLUMBING DRAWINGS.
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	INDICATES DIAGONAL KICKERS OR BRIDGING BELOW.
RA	INDICATES ROOF ANCHOR SEE 8/S-532.
SP	INDICATES SPEAKER SUPPORT. SEE 9/S-532.
BF	INDICATES BIG FAN SUPPORT. SEE 2/S-532.
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CAM	INDICATES CAMERA SUPPORT. SEE 3/S-532.

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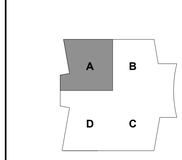

KEY PLAN

SEAL | DATE 01/27/25

STEPHEN J. SPITZER
REGISTERED
No. 10504738
STATE OF INDIANA
PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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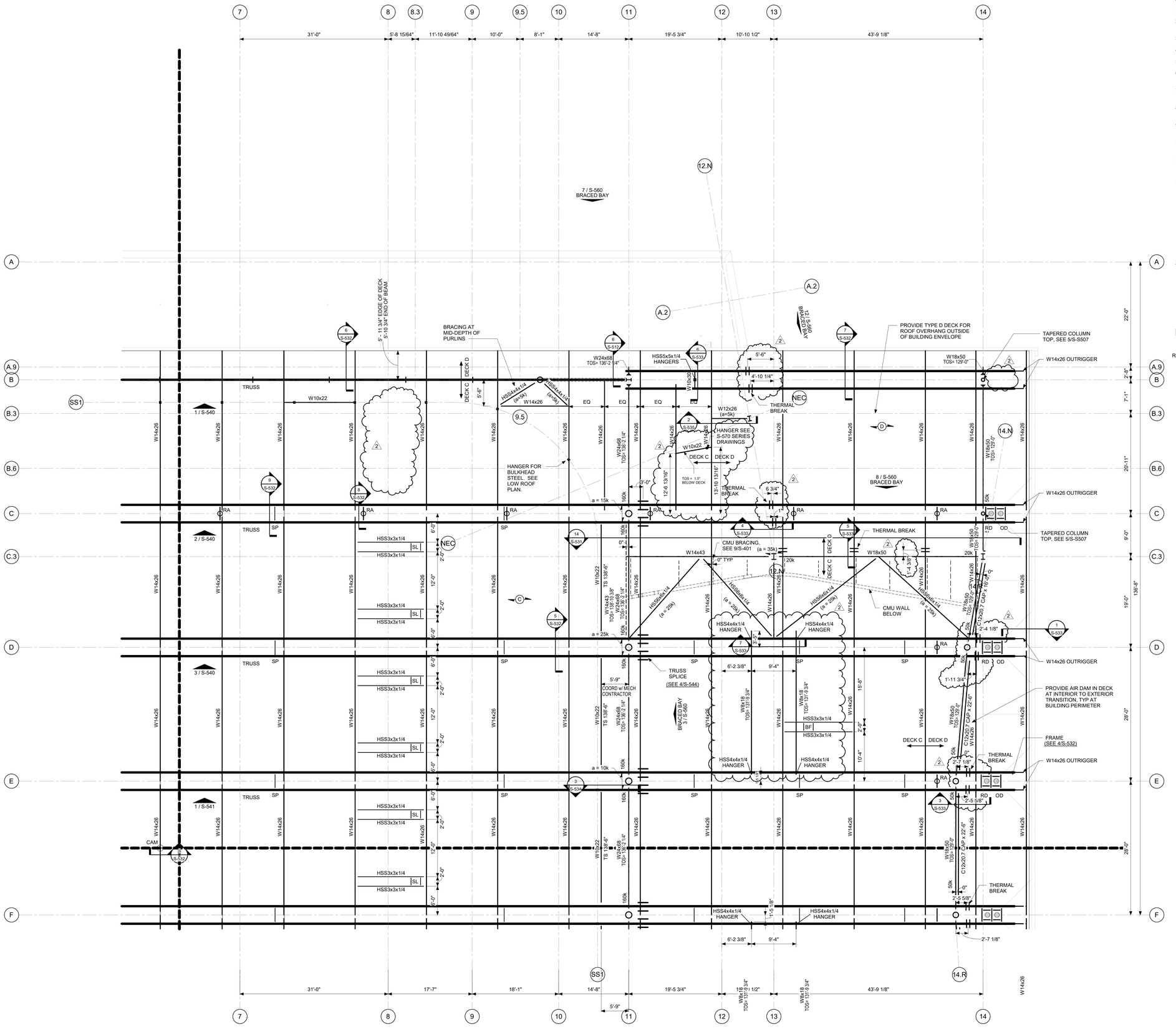
PROJECT NO. 23112.000

SHEET TITLE
HIGH ROOF PLAN - UNIT A

SHEET NUMBER
S-105A



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CAM	INDICATES CAMERA SUPPORT. SEE 3/S-532.

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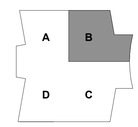

KEY PLAN

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PROJECT NO. 23112.000

SHEET TITLE
HIGH ROOF PLAN - UNIT B

SHEET NUMBER
S-105B

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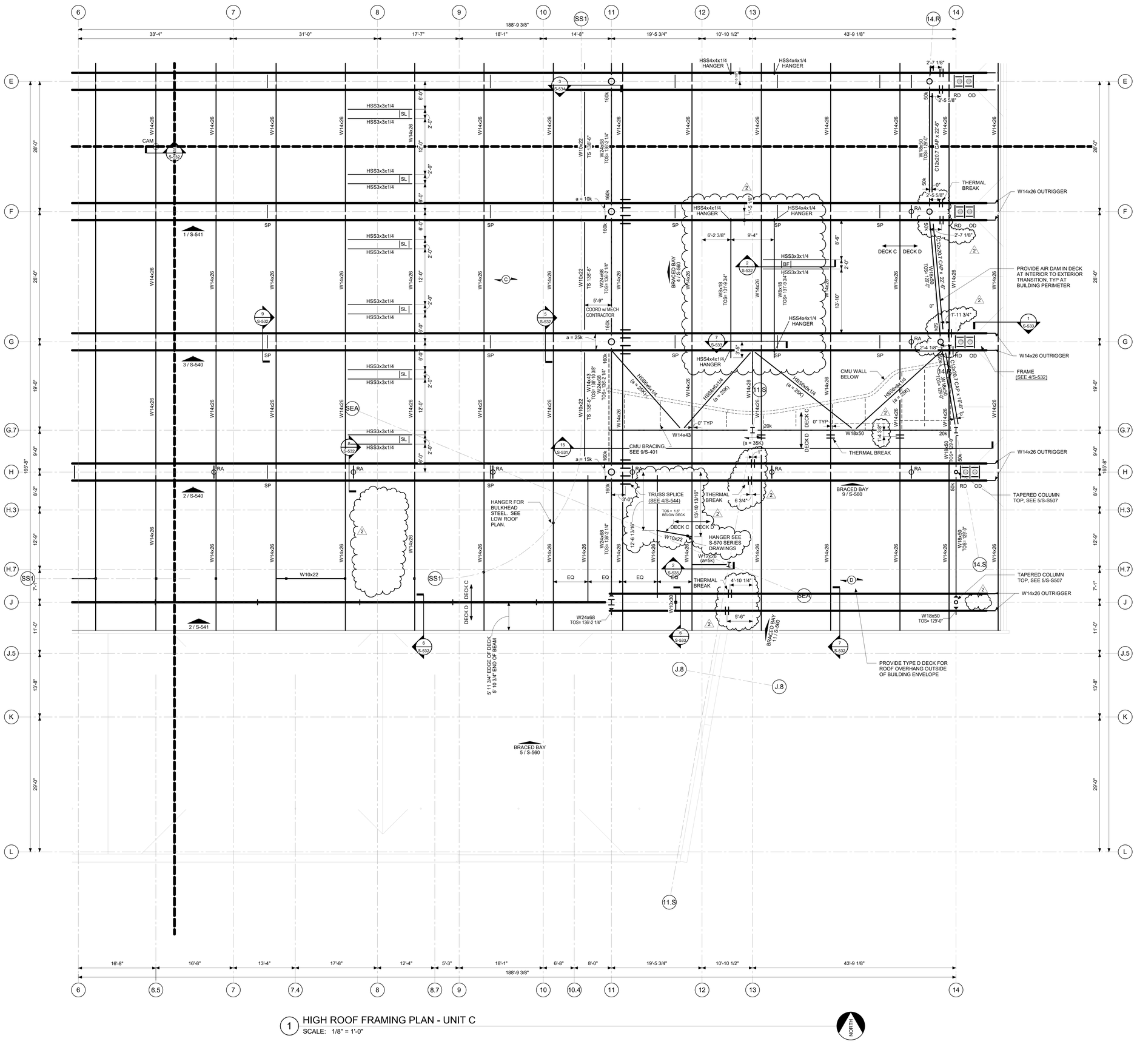

1 HIGH ROOF FRAMING PLAN - UNIT C
SCALE: 1/8" = 1'-0"

NORTH

1/24/2025 3:13:18 PM

STRUCTURAL STEEL FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
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KEY PLAN

SEAL | DATE 01/27/25



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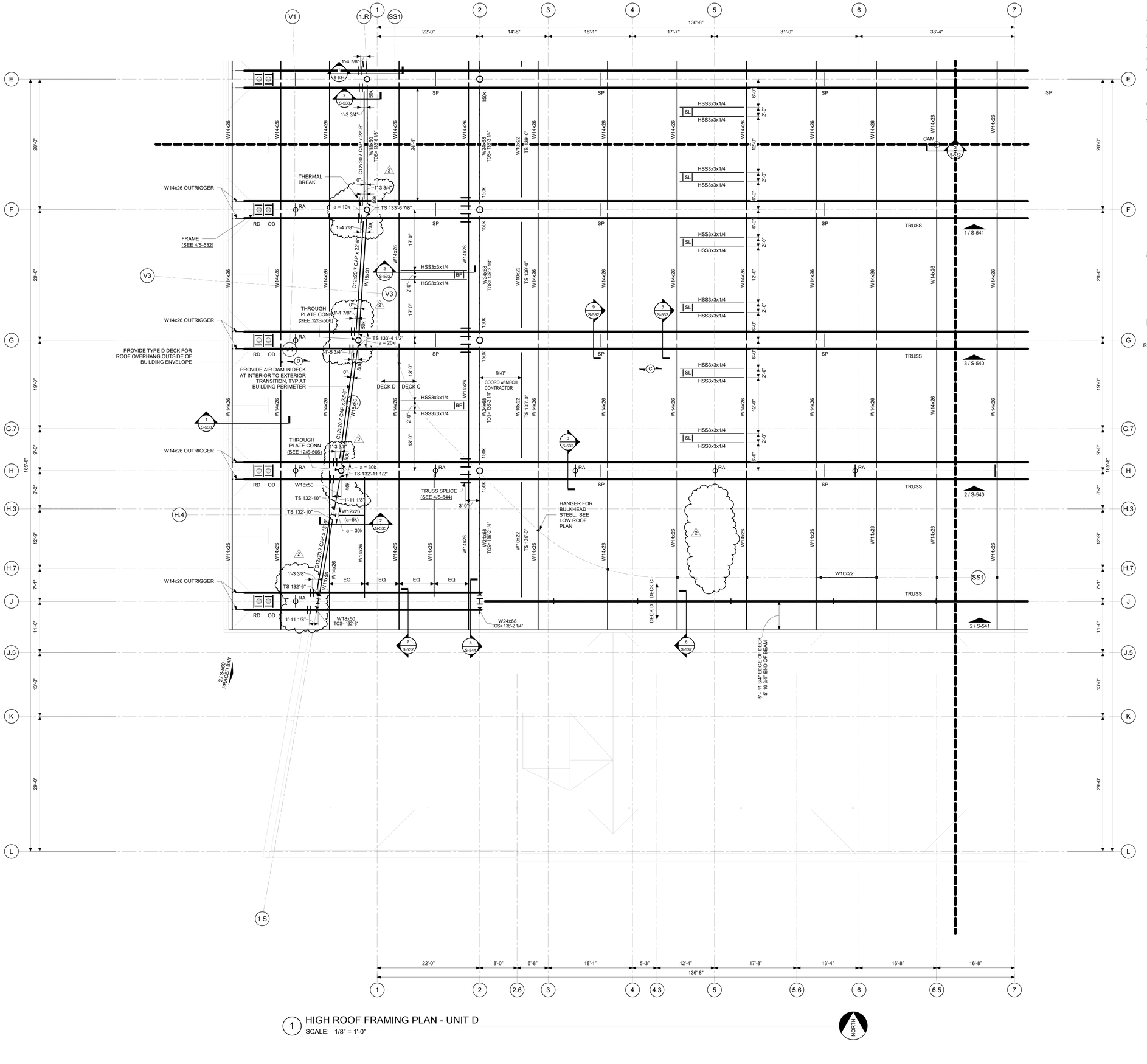
PROJECT NO. 23112.000

SHEET TITLE
HIGH ROOF PLAN - UNIT C

SHEET NUMBER
S-105C



1 HIGH ROOF FRAMING PLAN - UNIT D
SCALE: 1/8" = 1'-0"

1/24/2025 3:13:20 PM

STRUCTURAL STEEL FRAMING NOTES:

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954-846-9600

Code Consultant
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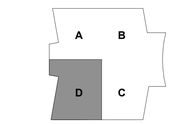
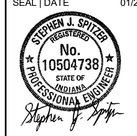
816-806-3729



KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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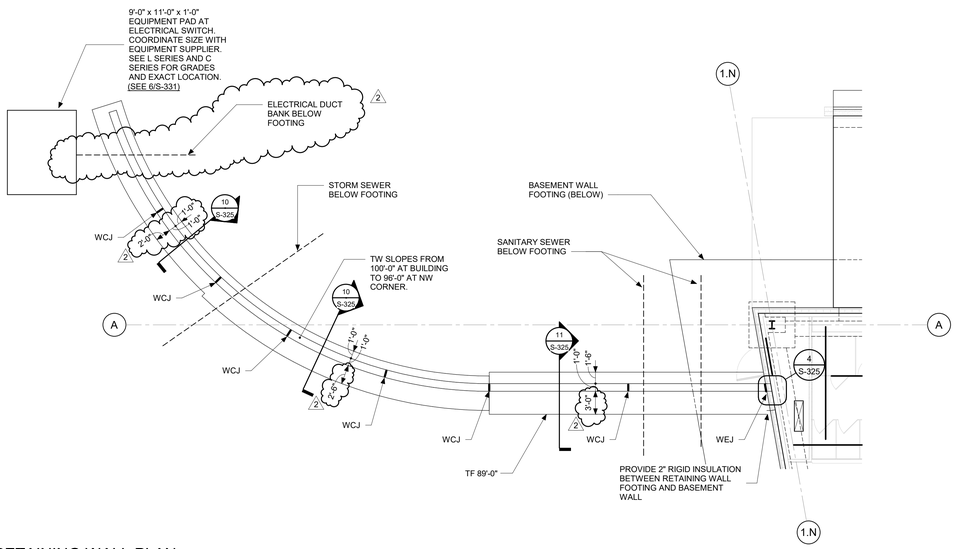
PROJECT NO. 23112.000

SHEET TITLE
HIGH ROOF PLAN - UNIT D

SHEET NUMBER
S-105D



1 RETAINING WALL PLAN

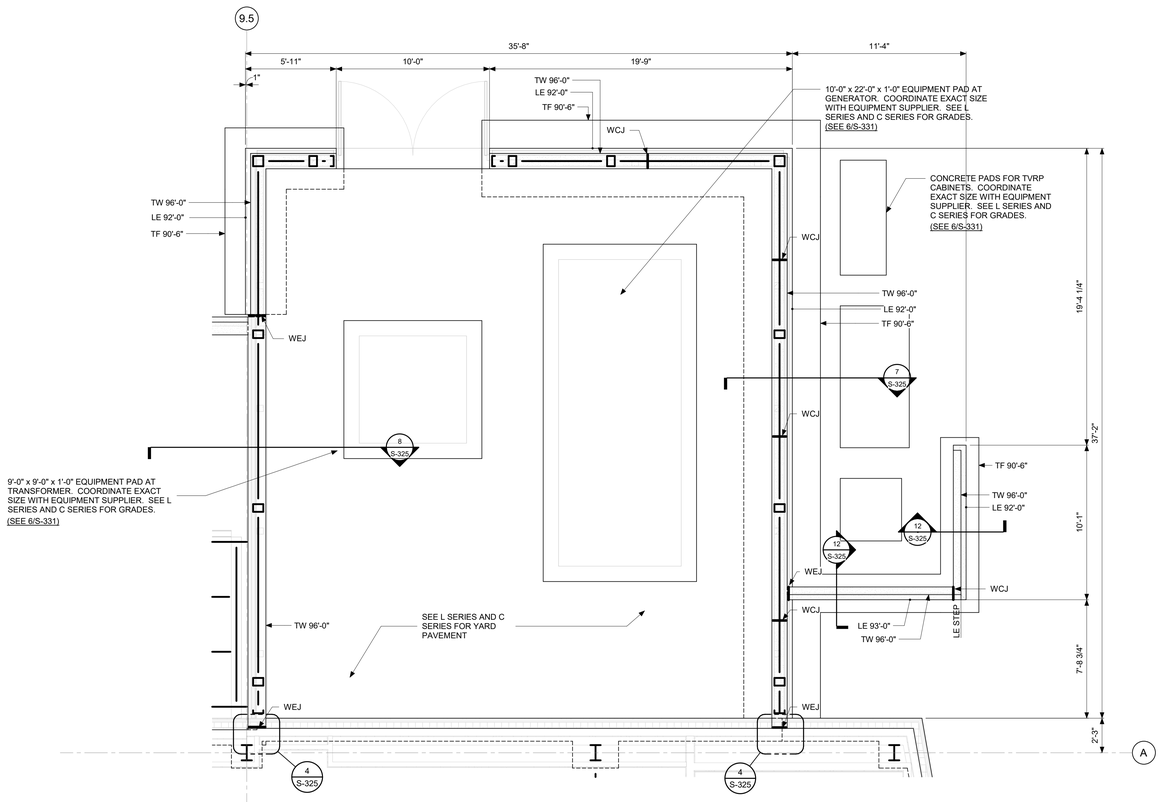
SCALE: 1/8" = 1'-0"

RETAINING WALL PLAN:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE CIVIL DRAWINGS FOR LAYOUT AND DIMENSIONS.

LEGEND

TF	INDICATES TOP OF FOOTING ELEVATION
TW	INDICATES TOP OF WALL ELEVATION
LE	INDICATES TOP OF LEDGE ELEVATION.
WCJ	INDICATES WALL CONTROL JOINT. SEE
WEJ	INDICATES WALL EXPANSION JOINT. SEE



2 SERVICE YARD FOUNDATION PLAN - UNIT B

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

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

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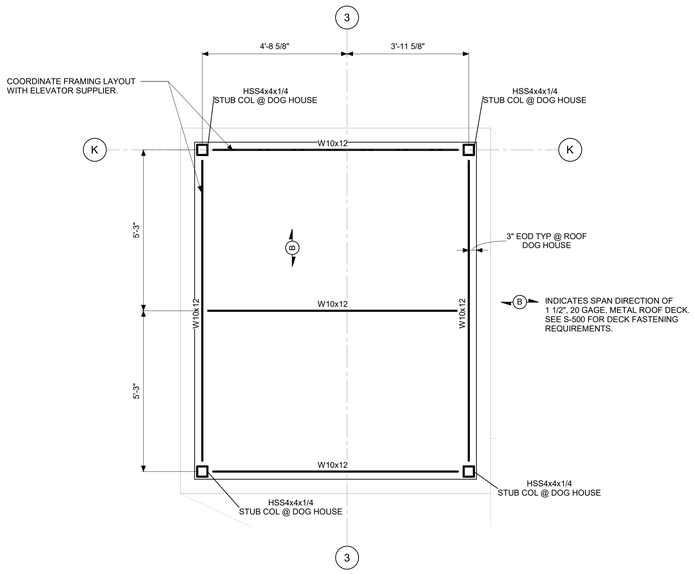
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED FOUNDATION PLANS

SHEET NUMBER
S-110

1/24/2025 3:13:22 PM

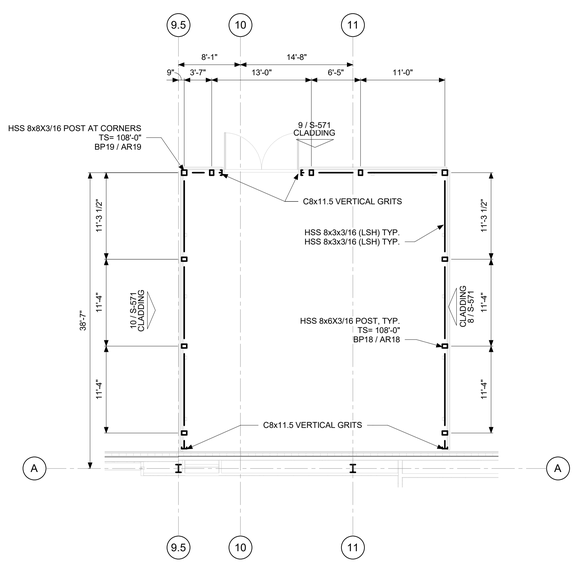


1 SOUTH OFFICE ELEVATOR DOG HOUSE ENLARGED FRAMING PLAN

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

TOP OF STEEL ELEVATION = 129'-4" TYP, UNO

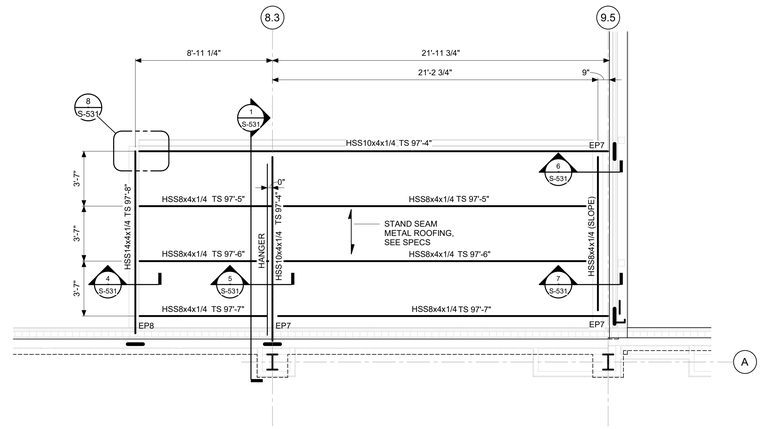
NORTH



2 SERVICE YARD SCREEN WALL FRAMING PLAN

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

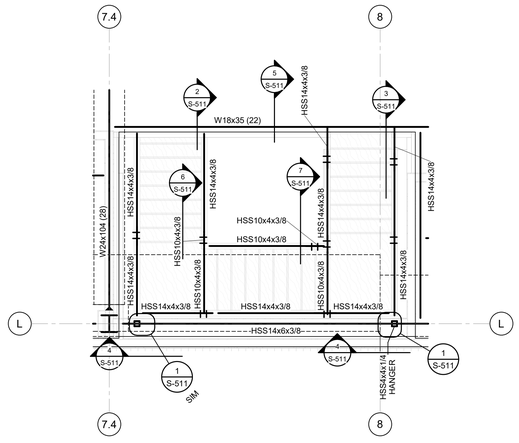
NORTH



3 DOCK CANOPY FRAMING PLAN

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

NORTH



SOUTH OFFICE MONUMENTAL STAIR FRAMING PLAN NOTES

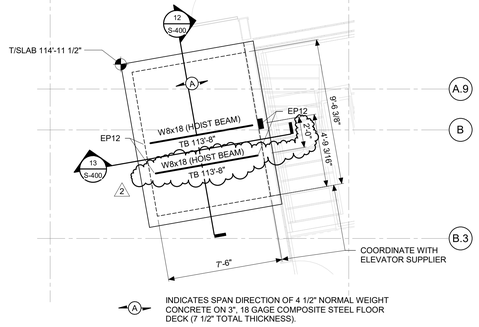
1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS, AND ADDITIONAL INFORMATION.
2. SEE SPECIFICATION 055110 - MONUMENTAL STAIRS.
3. THE INTENT OF THIS DRAWING IS TO SHOW MEMBER SIZES AND CONNECTION DETAIL CONCEPT FOR STAIR PRIMARY FRAMING MEMBERS. STAIR SUPPLIER SHALL DETAIL AND SUPPLY ADDITIONAL SECONDARY MEMBERS INCLUDING, BUT NOT LIMITED TO, TREAD PANS, LANDING PANS, SUPPORT ANGLES, AND CONNECTIONS

INDICATES KINKED BEAM MOMENT CONNECTION
SEE S500 SERIES DRAWINGS FOR CONNECTION DETAIL

4 SOUTH OFFICE MONUMENTAL STAIR - ENLARGED PLAN

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

NORTH



5 NE ELEVATOR DOGHOUSE FRAMING PLAN

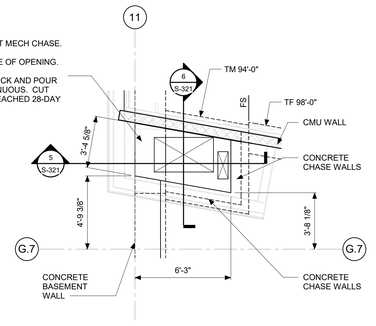
SCALE: 1/4" = 1'-0"

NORTH

SLAB ON METAL DECK INFILL AT MECH CHASE.

REINFORCE WITH #4 EACH SIDE OF OPENING.

BOX OUT OPENINGS ABOVE DECK AND POUR CONCRETE WITH DECK CONTINUOUS. CUT OUT DECK AFTER SLAB HAS REACHED 28-DAY STRENTH.



6 MECH CHASE ENLARGED PLAN - AREA C

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

NORTH

1/24/2025 3:13:25 PM

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SEAL | DATE 01/27/25

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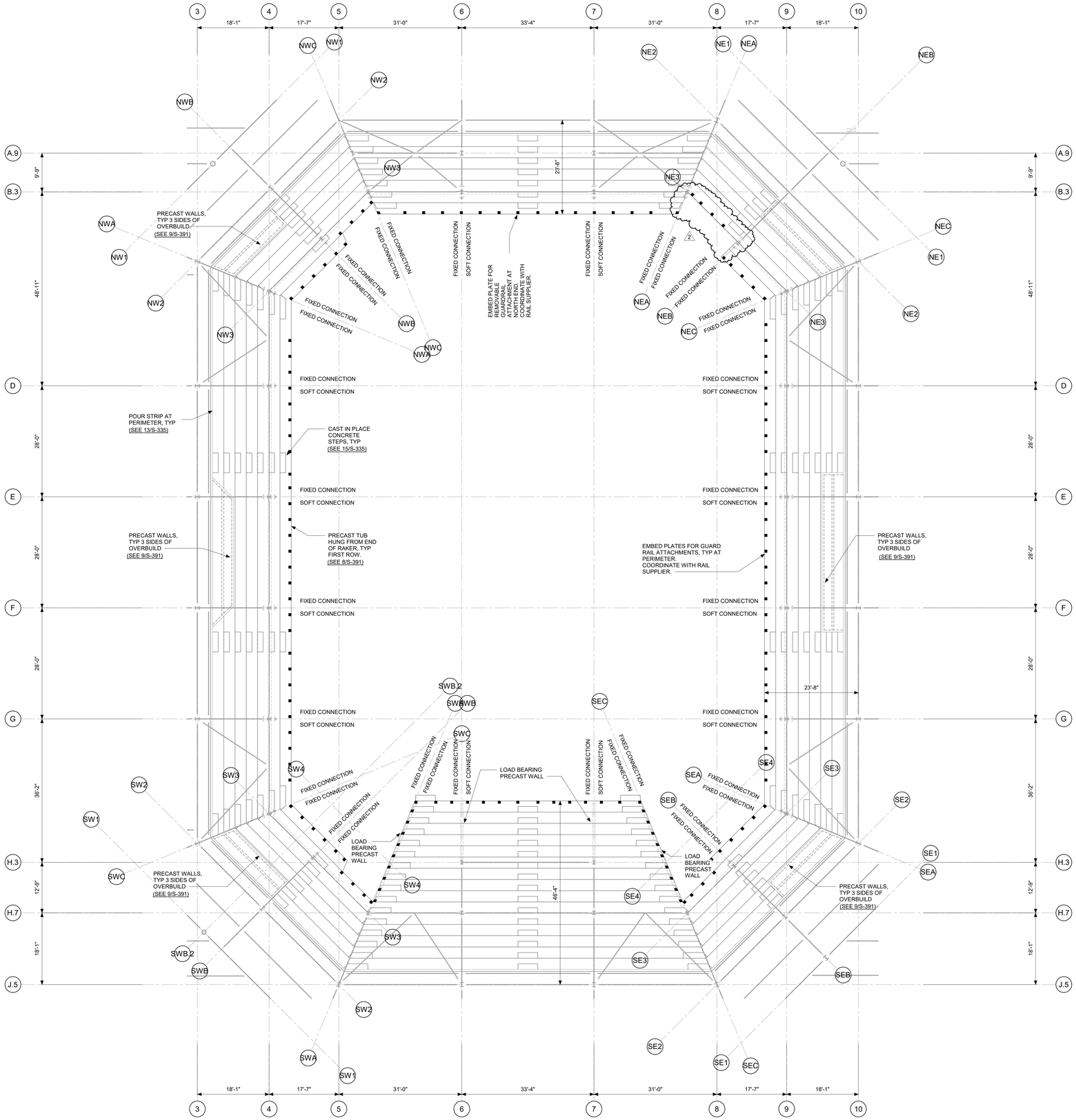
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED FRAMING PLANS

SHEET NUMBER
S-111



1 PRECAST PLAN
SCALE: 3/32" = 1'-0"

PRECAST PLAN NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S-001 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE DRAWING S-008 FOR OVERALL GRID GEOMETRY LAYOUT.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
5. SEE DRAWING S-390 SERIES DRWINGS FOR PRECAST DETAILS.

LEGEND

SOFT CONNECTION:
INDICATES SOFT CONNECTION BETWEEN PRECAST AND STEEL.

HARD CONNECTION:
INDICATES HARD CONNECTION BETWEEN PRECAST AND STEEL.

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KEY PLAN

SEAL | DATE 01/27/25



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PROJECT NO. 23112.000

SHEET TITLE
PRECAST PLAN

SHEET NUMBER
S-112

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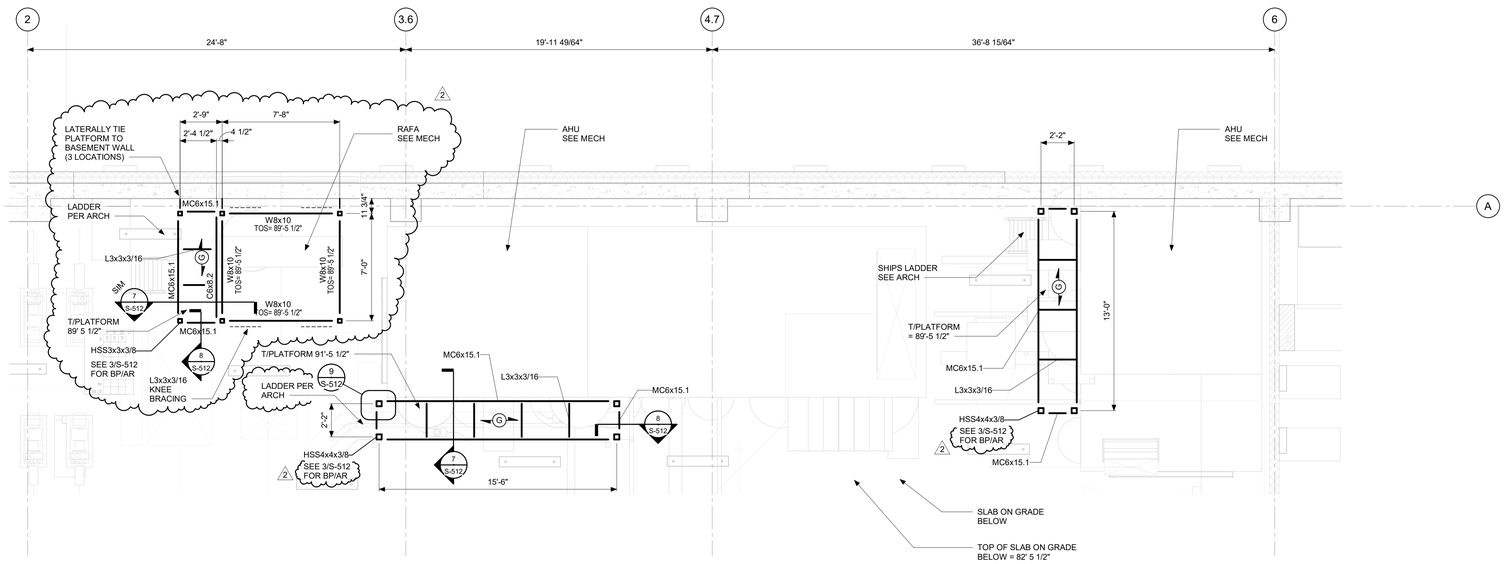

1 MECHANICAL PLATFORM PLAN - EVENT LEVEL AREA A - FAN ROOM 068
SCALE: 1/4" = 1'-0"

2 MECHANICAL PLATFORM PLAN - EVENT LEVEL AREA C
SCALE: 1/4" = 1'-0"

MECHANICAL PLATFORM PLAN
CONCOURSE LEVEL AREA C - FAN ROOM 115G
SCALE: 1/4" = 1'-0"

4 MECHANICAL PLATFORM PLAN - UPPER LEVEL AREA A - FAN ROOM 209
SCALE: 1/4" = 1'-0"

5 MECHANICAL PLATFORM PLAN - UPPER LEVEL AREA B
SCALE: 1/4" = 1'-0"

6 MECHANICAL PLATFORM PLAN - UPPER LEVEL AREA D - MECH 208
SCALE: 1/4" = 1'-0"

MECHANICAL PLATFORM FRAMING NOTES:

1. PROJECT ELEVATION 100'-0" = USGS 712.00'.
2. SEE S-000 SERIES DRAWINGS FOR GENERAL NOTES, CONCRETE SCHEDULES, DESIGN INFORMATION, AND LOADING CRITERIA.
3. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. **PLATFORM LAYOUT, DIMENSIONS, AND HEIGHT ARE PRELIMINARY AND MUST BE COORDINATED WITH MECHANICAL UNIT SHOP DRAWINGS.**
   A. **FRAMING SHALL BE CONFIGURED TO MAINTAIN ACCESS TO DOORS, COIL PULLS, AND OTHER KEY AREAS OF THE UNIT.**
   B. **PROVIDE REMOVAL HANDRAILS AT PLATFORMS TO ALLOW FOR UPPER LEVEL COIL PULLS.**
5. MECHANICAL PLATFORM STEEL SHALL RECEIVE SSPC SP3 SURFACE PREP AND SHOP PRIMER.

LEGEND

G — INDICATES SPAN DIRECTION OF 3/4" BAR GRATING. SEE SPEC 055300.

TB — INDICATES TOP OF BEAM ELEVATION.

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PROJECT NO. 23112.000

SHEET TITLE
MECHANICAL PLATFORM PLANS

SHEET NUMBER
S-120

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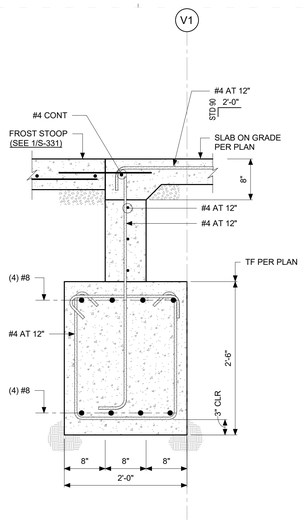

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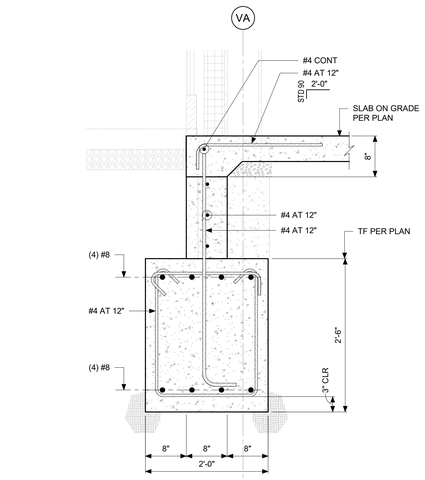

2 SECTION AT WEST ENTRY
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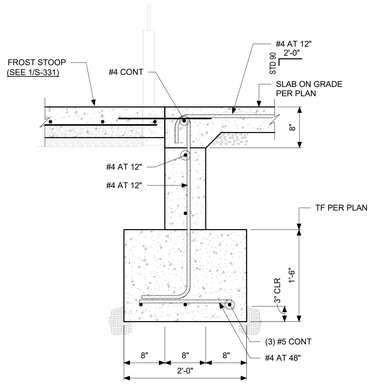
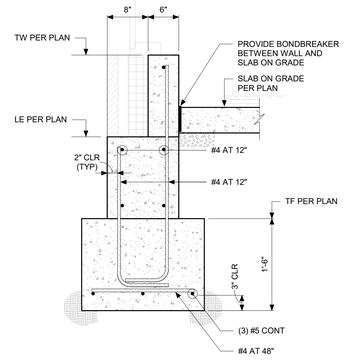


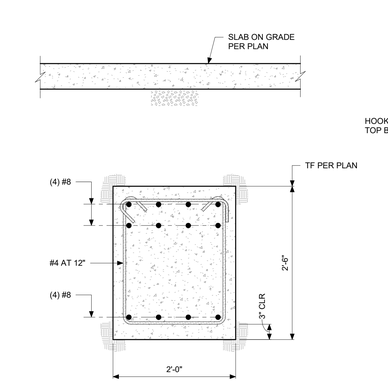
3 SECTION AT NE AND SE ENTRIES
SCALE: 1" = 1'-0"



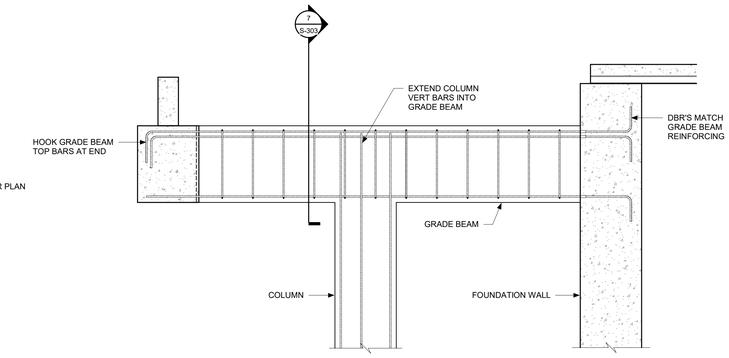
4 SECTION AT PRACTICE GYM
SCALE: 1" = 1'-0"

5 SECTION AT PRACTICE GYM
SCALE: 1" = 1'-0"

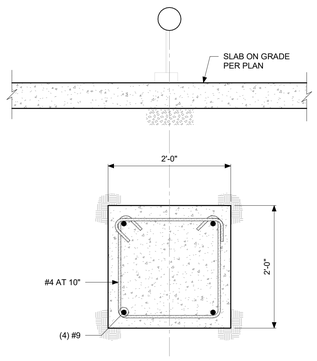
6 SECTION AT PRACTICE GYM
SCALE: 1" = 1'-0"



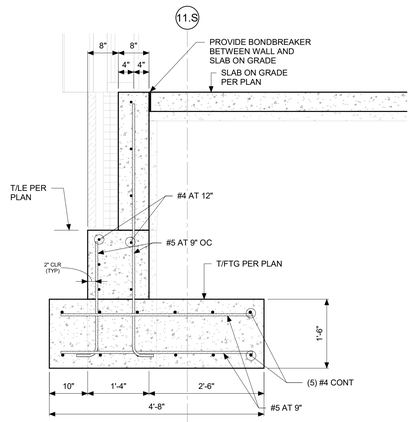
7 SECTION AT ENTRY GRADE BEAM
SCALE: 1" = 1'-0"



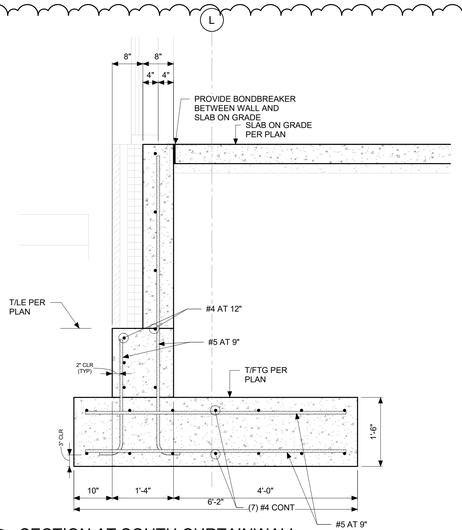
8 SECTION AT ENTRY GRADE BEAM
SCALE: 1/2" = 1'-0"



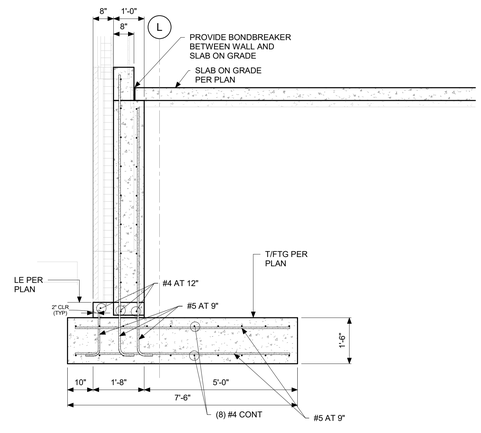
9 GRADE BEAM AT OFFICE - MOMENT FRAME
SCALE: 1" = 1'-0"



10 SECTION AT EAST WALL OF SOUTH OFFICE
SCALE: 3/4" = 1'-0"



11 SECTION AT SOUTH CURTAINWALL
SCALE: 3/4" = 1'-0"



12 SECTION AT SOUTH STUD WALL
SCALE: 1/2" = 1'-0"

2

1/24/2025 3:13:40 PM

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Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

RATIO

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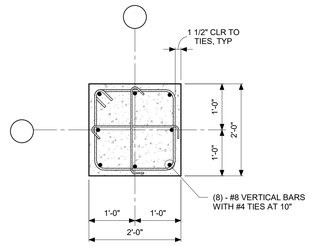
PROJECT NO. 23112.000

SHEET TITLE
TYPICAL FOUNDATION DETAILS

SHEET NUMBER
S-303

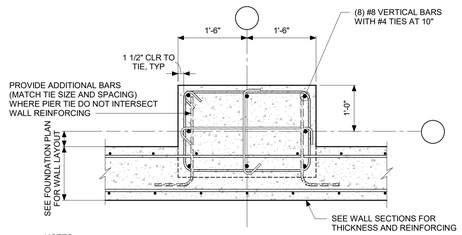


NOTES:

1. SEE TYPICAL CONCRETE PIER DETAILS ON SHEET S-302 FOR ADDITIONAL TIE INFORMATION.
2. PROVIDE STANDARD HOOKS AT TOP OF VERTICAL BARS IN PIERS LOCATED WITHIN BRACED BAYS.
3. ORIENT HOOKS TO AVOID INTERFERENCE WITH ANCHOR RODS FOR STEEL COLUMNS. PROVIDE SPECIFIC DETAILS WITH SUBMITTAL.

1 PIER P1 - 24" x 24"

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

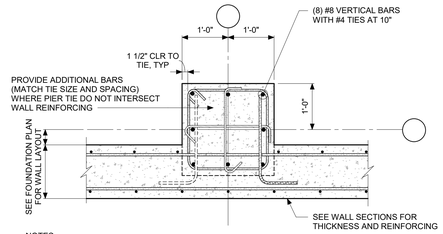


NOTES:

1. SEE TYPICAL CONCRETE PIER DETAILS ON SHEET S-302 FOR ADDITIONAL TIE INFORMATION.
2. PROVIDE STANDARD HOOKS AT TOP OF VERTICAL BARS IN PIERS LOCATED WITHIN BRACED BAYS.
3. ORIENT HOOKS TO AVOID INTERFERENCE WITH ANCHOR RODS FOR STEEL COLUMNS. PROVIDE SPECIFIC DETAILS WITH SUBMITTAL.

2 PIER P2 - 24" x 24" AT WALL

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

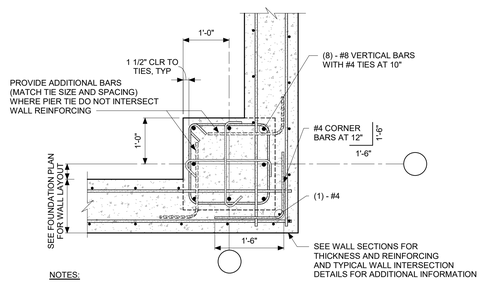


NOTES:

1. SEE TYPICAL CONCRETE PIER DETAILS ON SHEET S-302 FOR ADDITIONAL TIE INFORMATION.
2. PROVIDE STANDARD HOOKS AT TOP OF VERTICAL BARS IN PIERS LOCATED WITHIN BRACED BAYS.
3. ORIENT HOOKS TO AVOID INTERFERENCE WITH ANCHOR RODS FOR STEEL COLUMNS. PROVIDE SPECIFIC DETAILS WITH SUBMITTAL.

3 PIER P3 - 24" x 24" AT WALL CORNER

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

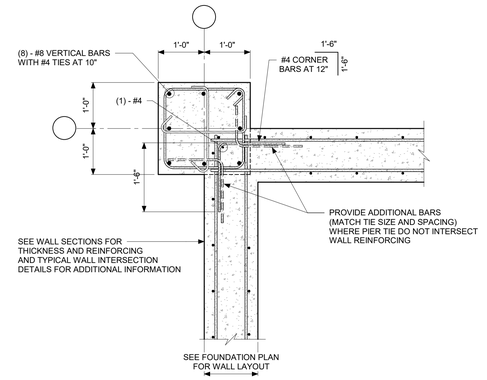


NOTES:

1. SEE TYPICAL CONCRETE PIER DETAILS ON SHEET S-302 FOR ADDITIONAL TIE INFORMATION.
2. PROVIDE STANDARD HOOKS AT TOP OF VERTICAL BARS IN PIERS LOCATED WITHIN BRACED BAYS.
3. ORIENT HOOKS TO AVOID INTERFERENCE WITH ANCHOR RODS FOR STEEL COLUMNS. PROVIDE SPECIFIC DETAILS WITH SUBMITTAL.

4 PIER P4 - 24" x 24" AT WALL CORNER

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



NOTES:

1. SEE TYPICAL CONCRETE PIER DETAILS ON SHEET S-302 FOR ADDITIONAL TIE INFORMATION.
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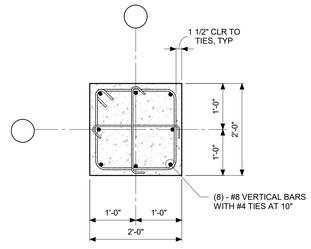
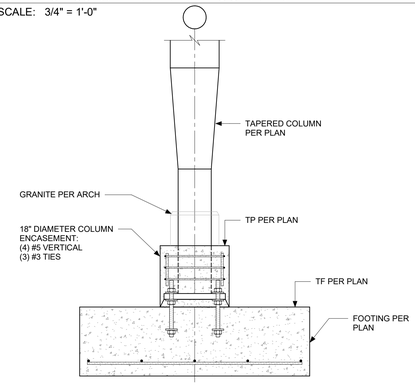


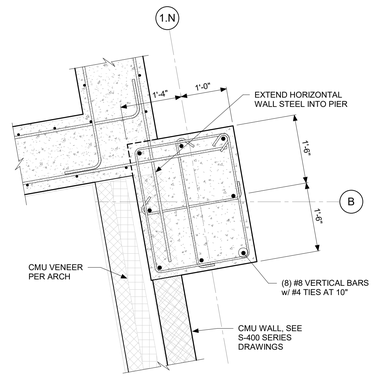
5 PIER P5 - 36" x 24" AT WALL

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



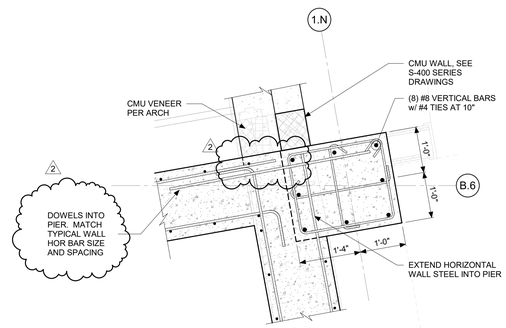
6 PIER P6 - 36" x 24" AT WALL CORNER

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



7 PIER P7 - 30" x 30" AT WALL

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

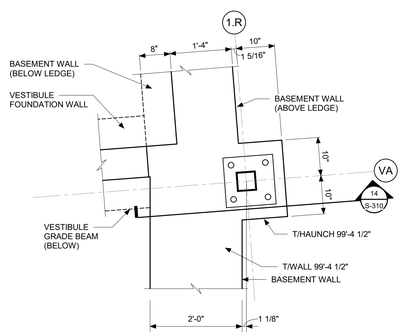


8 PIER P8 - 30" x 24" AT WALL

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

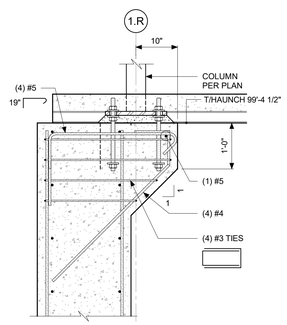
9 COLUMN C1

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



13 HAUNCH AT VESTIBULE POST

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



14 HAUNCH SECTION

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

1/24/2025 3:13:43 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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SEAL | DATE 01/27/25

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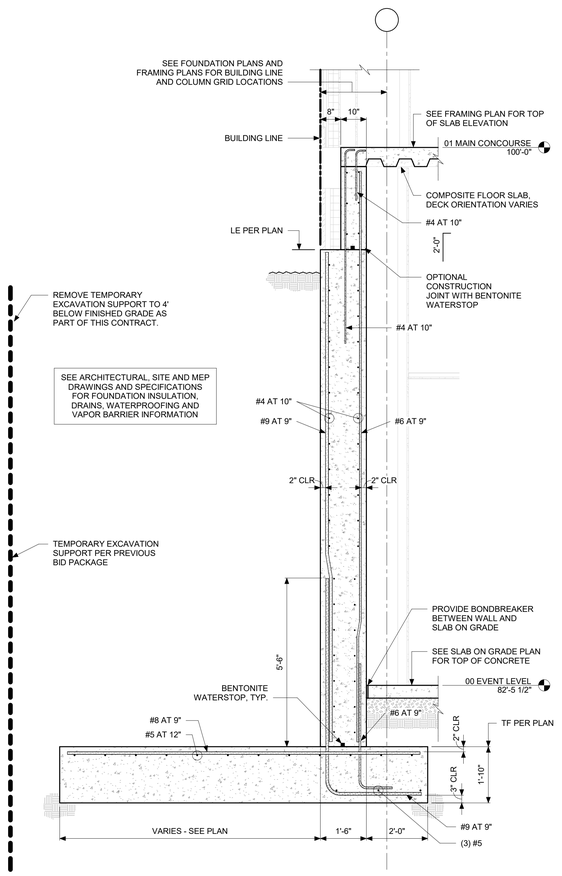
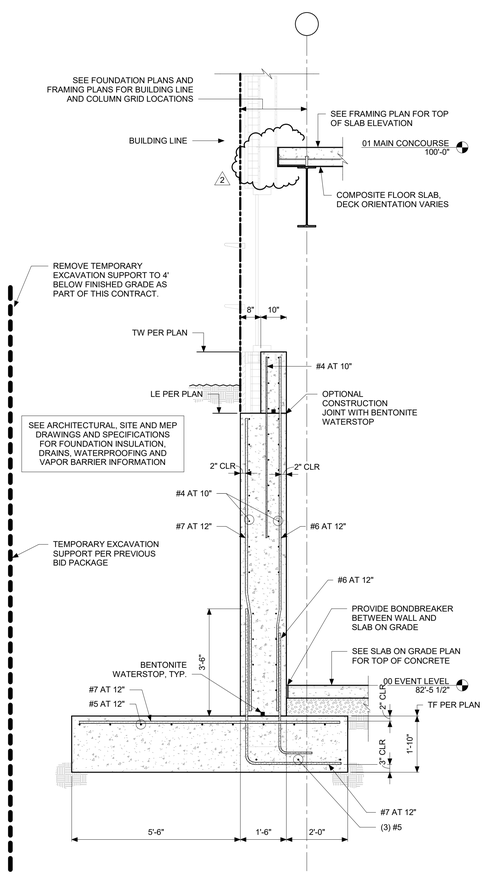
PROJECT NO. 23112.000

SHEET TITLE
CONCRETE PIER AND COLUMN DETAILS

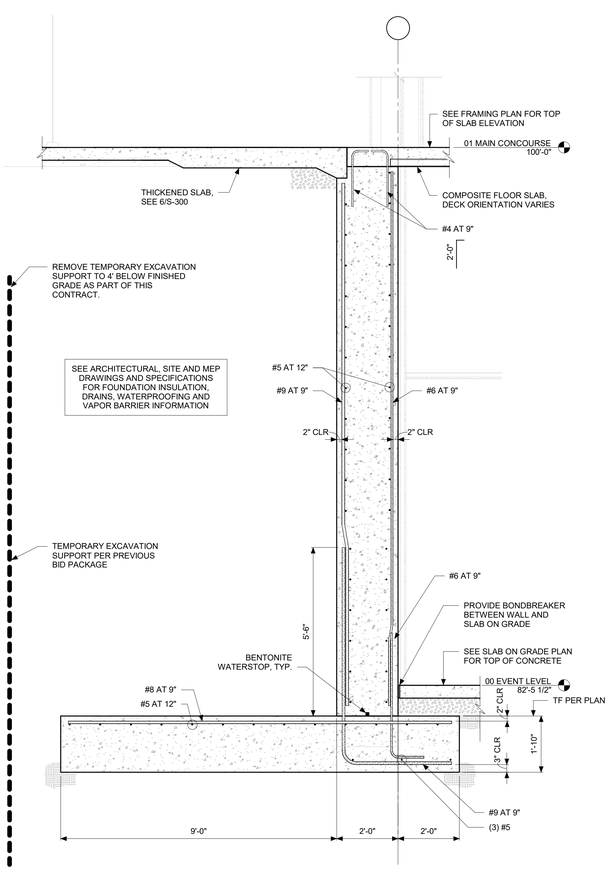
SHEET NUMBER
S-310



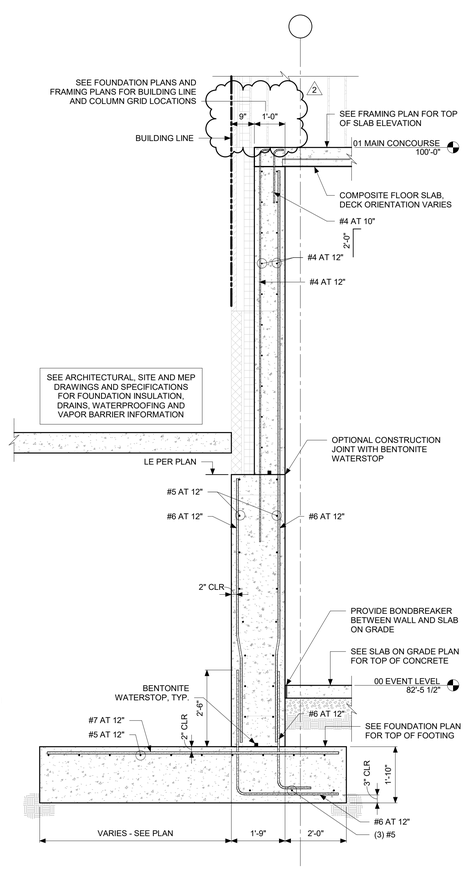
1 WALL SECTION
SCALE: 1/2" = 1'-0"



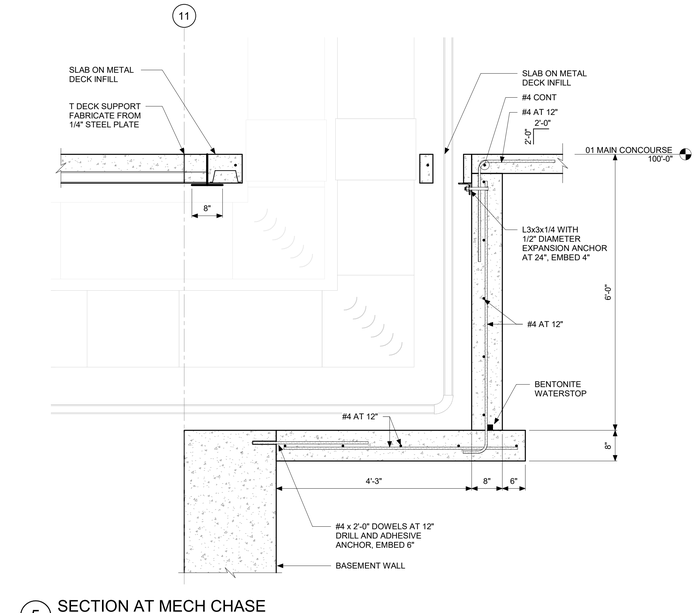
2 WALL SECTION
SCALE: 1/2" = 1'-0"



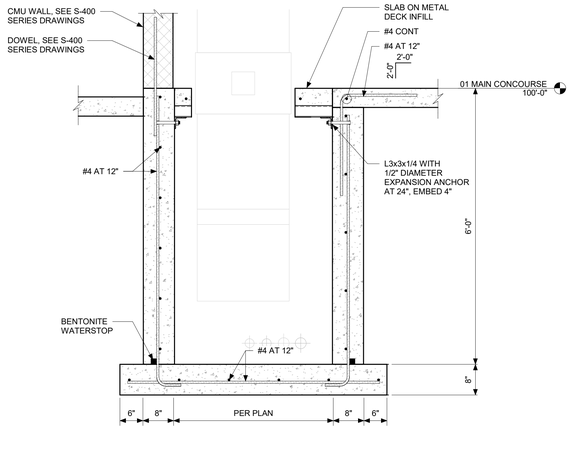
3 WALL SECTION
SCALE: 1/2" = 1'-0"



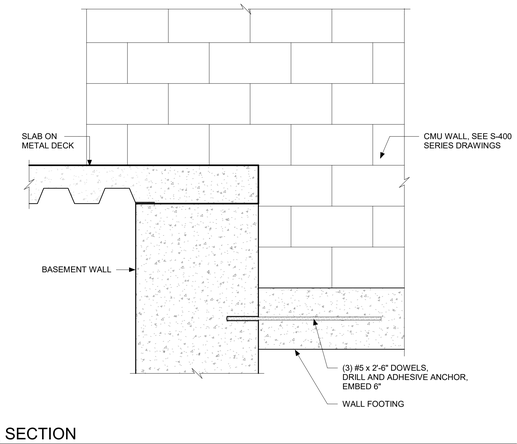
4 WALL SECTION
SCALE: 1/2" = 1'-0"



5 SECTION AT MECH CHASE
SCALE: 3/4" = 1'-0"



6 SECTION AT MECH CHASE
SCALE: 3/4" = 1'-0"



7 SECTION
SCALE: 1" = 1'-0"

1/24/2025 3:13:48 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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INTROBA
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SUITE 285
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Plumbing Engineer
DLZ
138 N. DELAWARE ST
INDIANAPOLIS, IN 46204
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Acoustics / Technology Engineer
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Code Consultant
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816-806-3729

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

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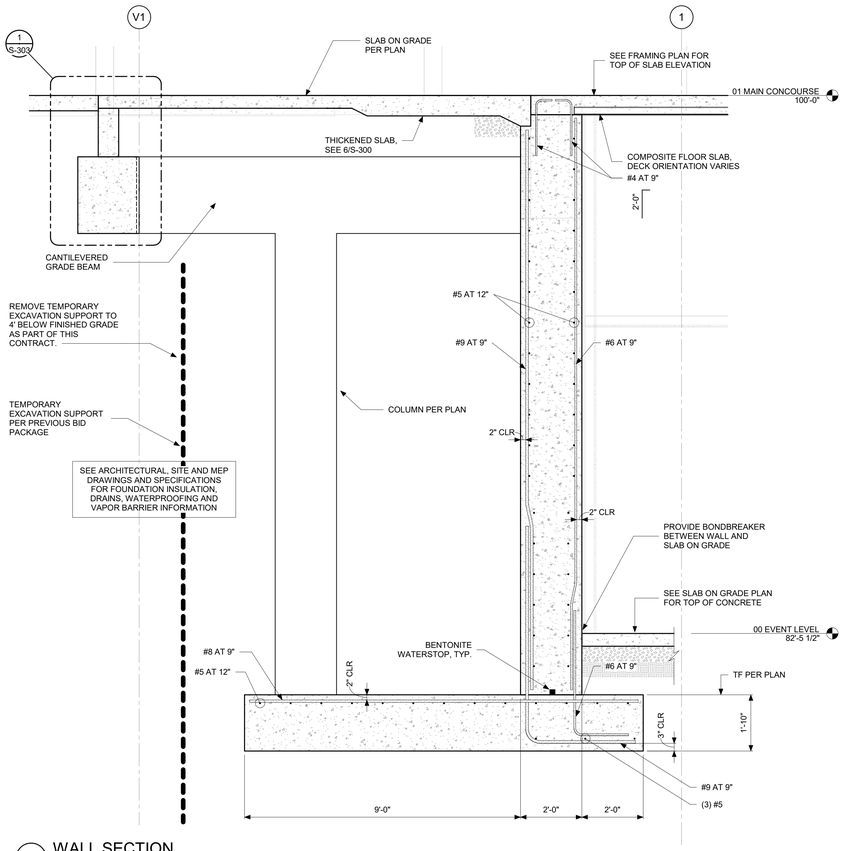
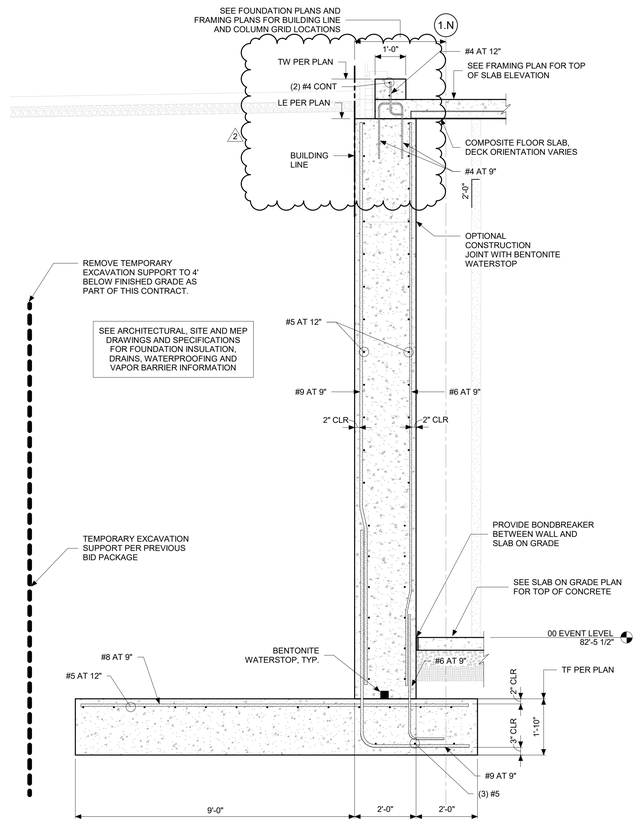
PROJECT NO. 23112.000

SHEET TITLE
TYPICAL CONCRETE BASEMENT WALL SECTIONS

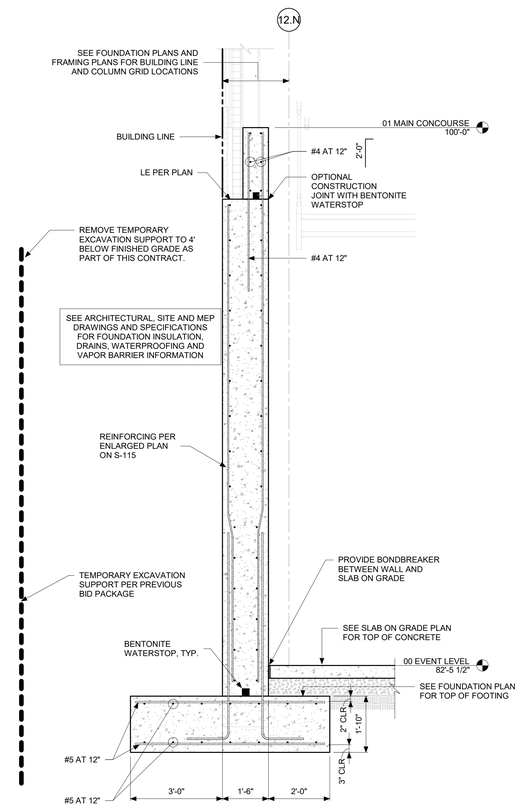
SHEET NUMBER
S-321



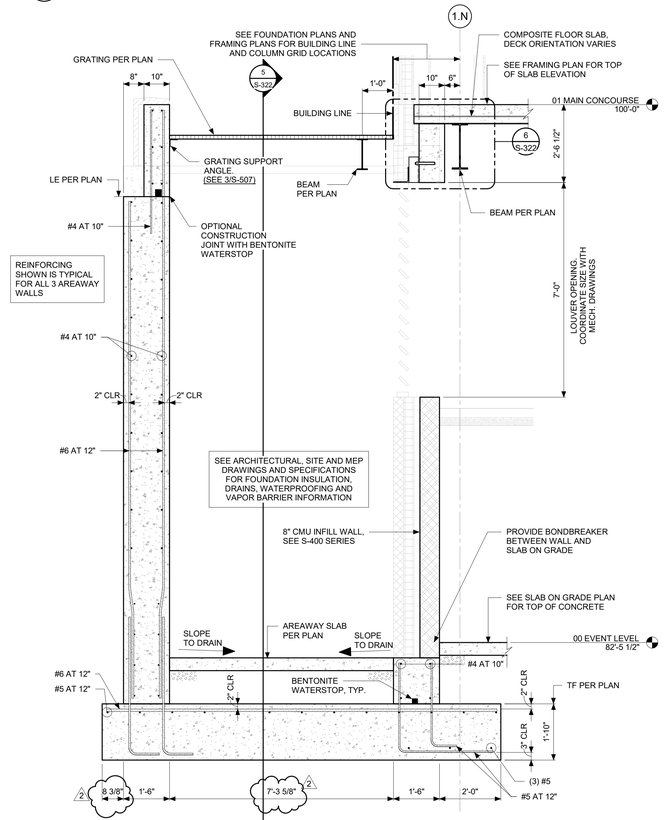
1 WALL SECTION
SCALE: 1/2" = 1'-0"



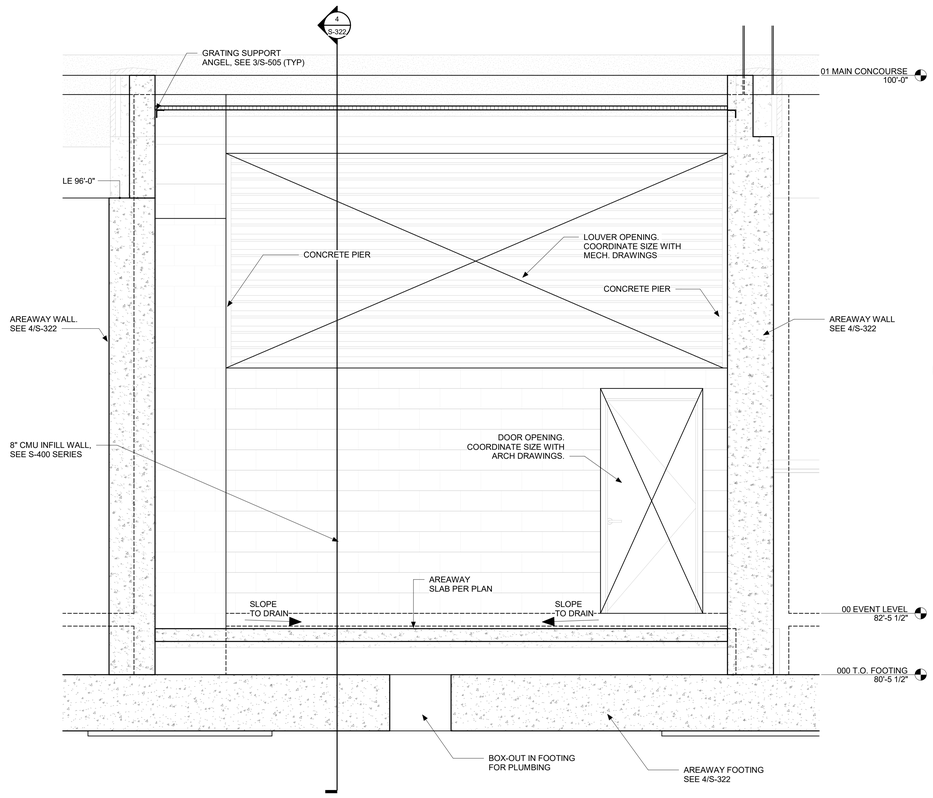
2 WALL SECTION
SCALE: 1/2" = 1'-0"



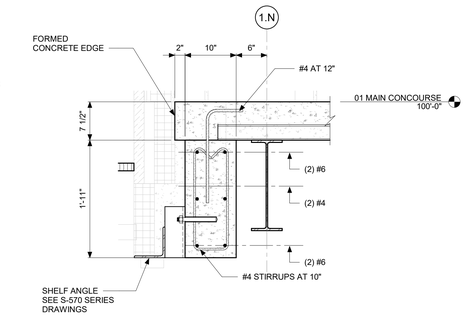
3 WALL SECTION
SCALE: 1/2" = 1'-0"



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



5 WALL SECTION/ELEVATION
SCALE: 1/2" = 1'-0"



6 BEAM OVER AREAWAY
SCALE: 1" = 1'-0"

1/24/2025 3:13:50 PM

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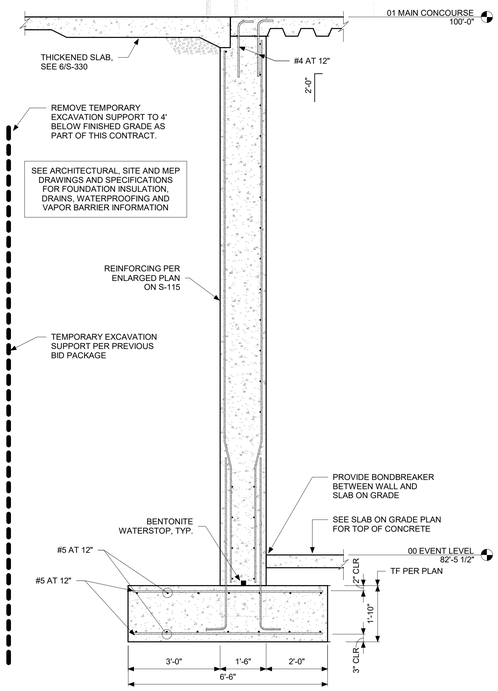
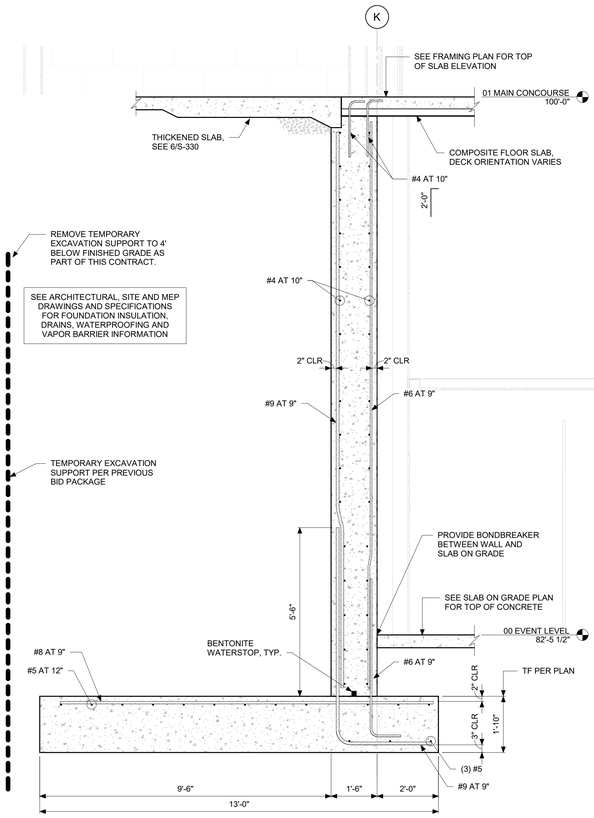
PROJECT NO. 23112.000

SHEET TITLE
TYPICAL CONCRETE BASEMENT WALL SECTIONS

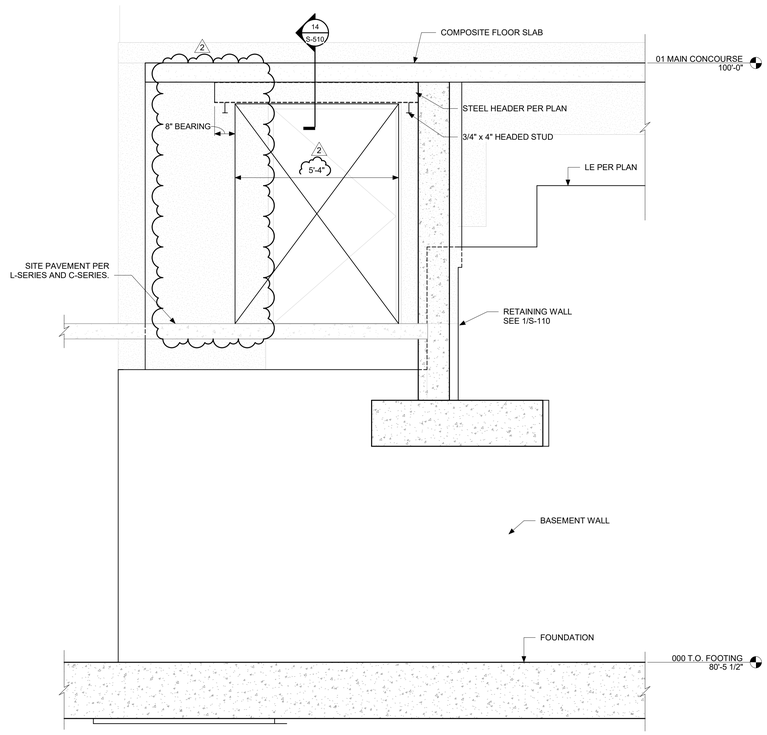
SHEET NUMBER
S-322



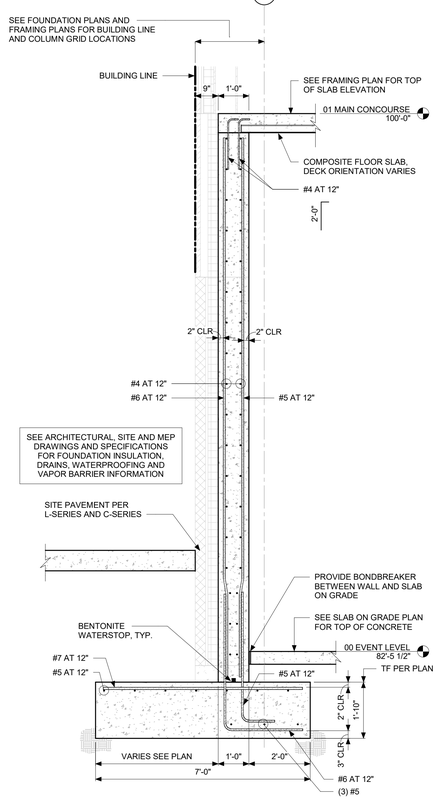
1 WALL SECTION
SCALE: 1/2" = 1'-0"



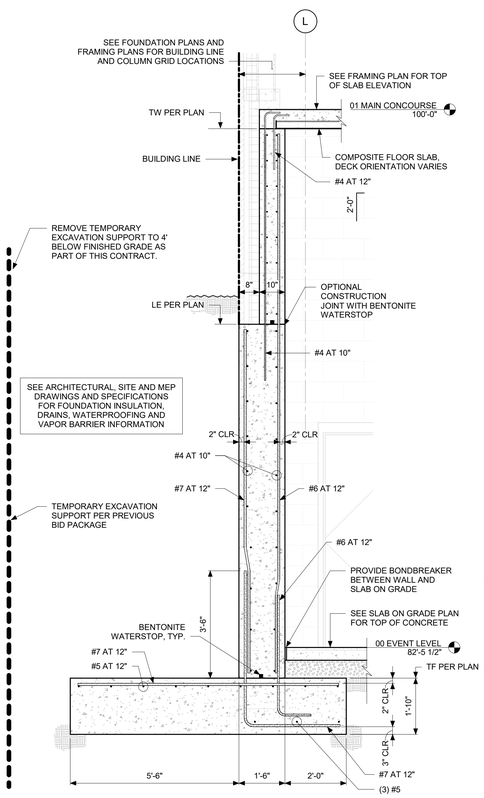
2 WALL SECTION
SCALE: 1/2" = 1'-0"



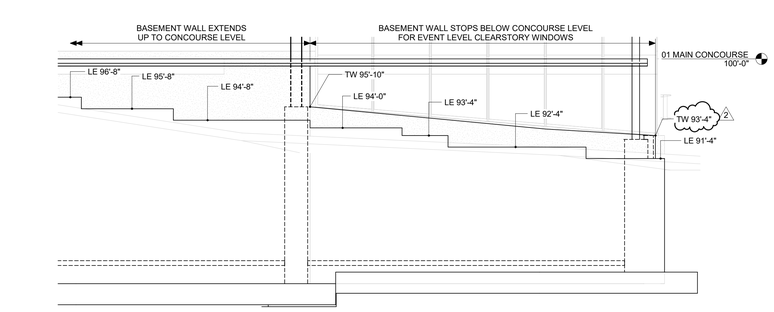
3 WALL ELEVATION
SCALE: 1/2" = 1'-0"



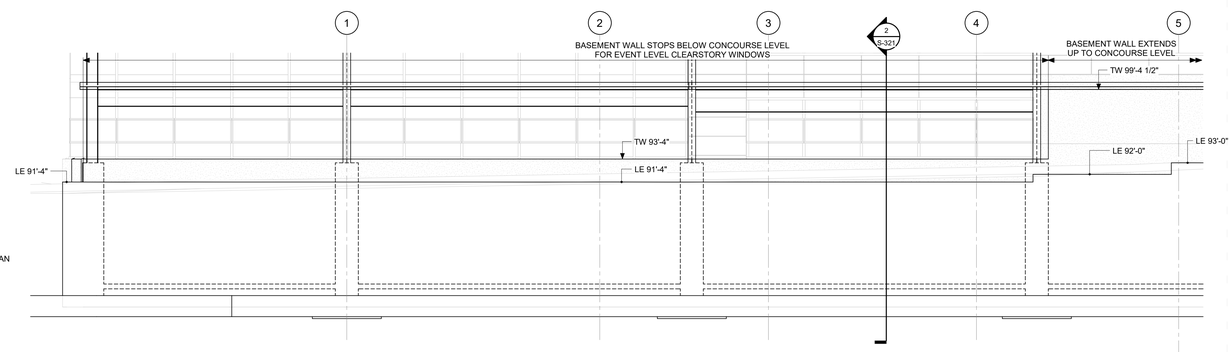
4 WALL SECTION
SCALE: 1/2" = 1'-0"



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



6 LEDGE ELEVATIONS ALONG GRID 1.S
SCALE: 3/16" = 1'-0"



7 LEDGE ELEVATIONS ALONG GRID L
SCALE: 3/16" = 1'-0"

1/24/2025 3:13:56 PM

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER
REGISTERED
No. 10504738
STATE OF INDIANA
PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

RATIO

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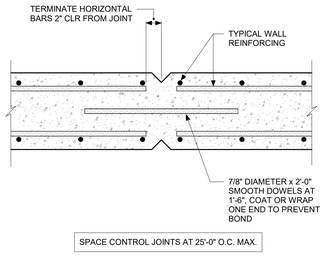
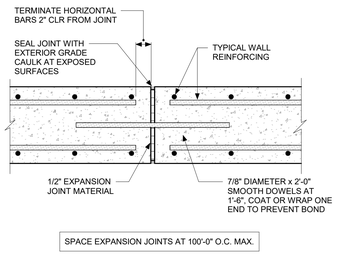
PROJECT NO. 23112.000

SHEET TITLE
TYPICAL CONCRETE BASEMENT WALL SECTIONS

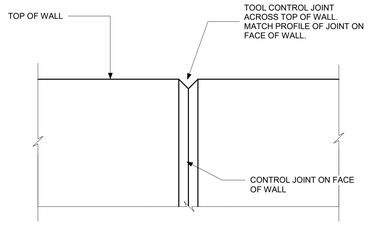
SHEET NUMBER
S-323



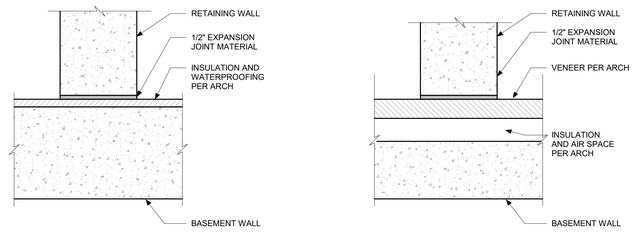
1 TYPICAL RETAINING WALL CONTROL JOINT
SCALE: 1 1/2" = 1'-0"



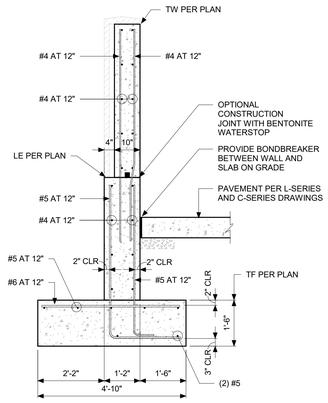
2 TYPICAL RETAINING WALL EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



3 TYPICAL CONTROL JOINT AT TOP OF WALL
SCALE: 1 1/2" = 1'-0"



4 RETAINING WALL EXPANSION JOINT AT BASEMENT WALL
SCALE: 1 1/2" = 1'-0"



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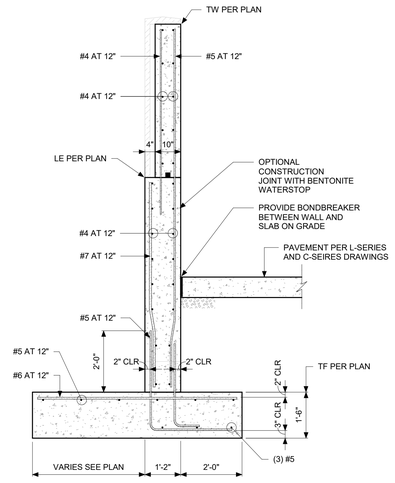
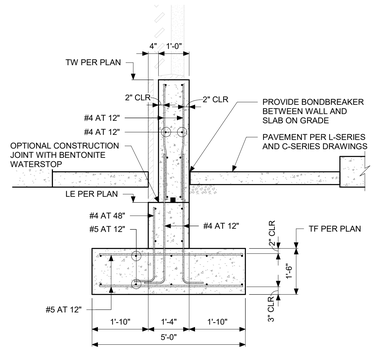
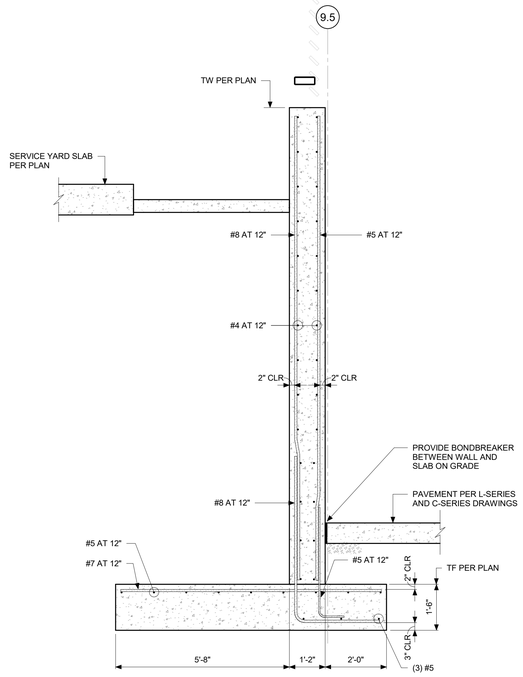
SCALE: 1/2" = 1'-0"



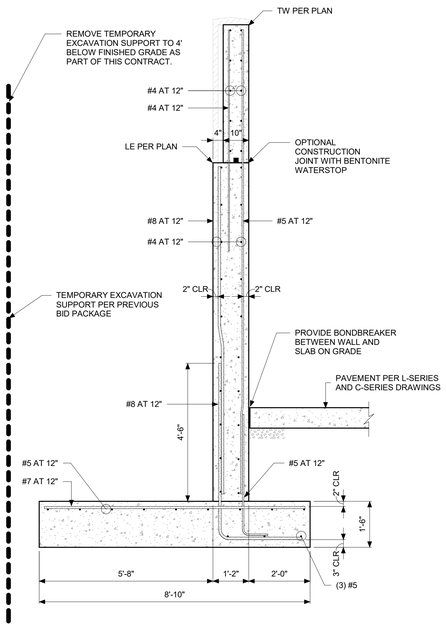
6 RETAINING WALL SECTION
SCALE: 1/2" = 1'-0"



7 SERVICE YARD WALL SECTION
SCALE: 1/2" = 1'-0"



8 RETAINING WALL SECTION
SCALE: 1/2" = 1'-0"



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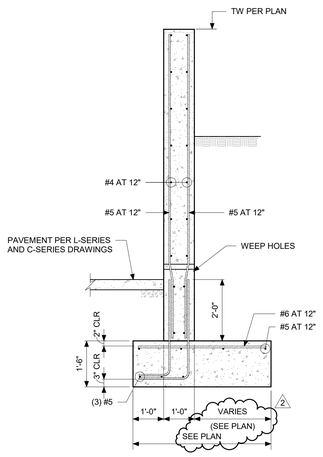
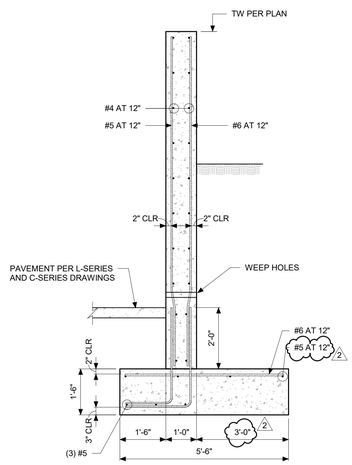
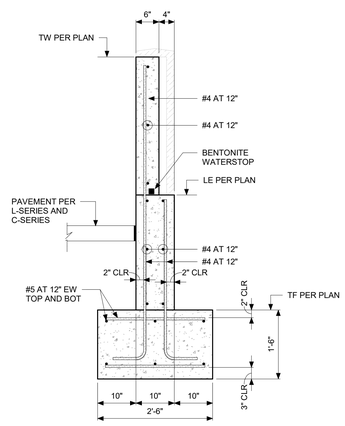
SCALE: 1/2" = 1'-0"



10 RETAINING WALL SECTION
SCALE: 1/2" = 1'-0"



11 RETAINING WALL SECTION
SCALE: 1/2" = 1'-0"



12 TVRP WALL SECTION
SCALE: 3/4" = 1'-0"

1/24/2025 3:14:01 PM

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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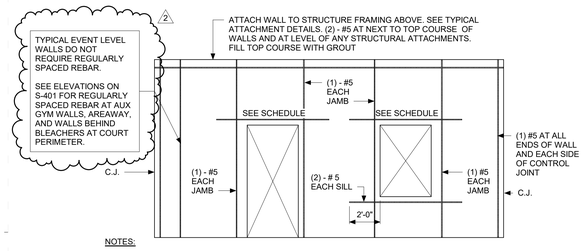
PROJECT NO. 23112.000

SHEET TITLE
LOADING DOCK SECTIONS & DETAILS

SHEET NUMBER
S-325



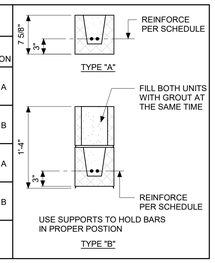
NOTES:

1. PROVIDE 9 GAGE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C.
2. SEE LINTEL SCHEDULE FOR GROUT AND REINFORCING ABOVE OPENINGS.
3. LAP SPLICE HORIZONTAL JOINT REINFORCEMENT 12 INCHES.
4. DOWEL INTO FOUNDATIONS WITH SAME BAR SIZE AND SPACING. CONTRACTOR HAS OPTION TO EMBED DOWELS DURING POUR.
5. C.J. INDICATES CONTROL JOINT. SEE TYPICAL CONTROL JOINT DETAIL. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL CONTROL JOINT LAYOUT INFORMATION.

1 TYPICAL CMU WALL REINFORCING
NOT-TO-SCALE

LINTEL SCHEDULE
LIGHT WEIGHT BLOCK NON-BEARING WALLS
*NOMINAL BLOCK DIMENSION

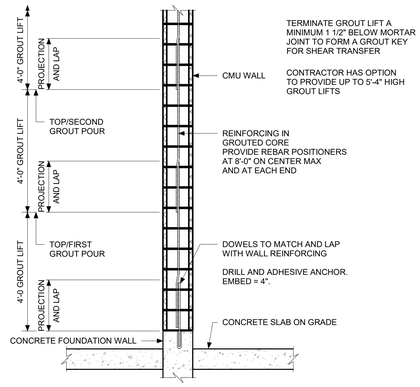
MARK	WALL* THICK	LINTEL* HEIGHT	BOTTOM REINF.	MAXIMUM CLEAR SPAN	SECTION
L1	6	8	(1) #5	4'-4"	TYPE A
L2	6	16	(1) #5	6'-4"	TYPE B
L3	8	8	(2) #5	4'-4"	TYPE A
L4	8	16	(2) #5	6'-4"	TYPE B



NOTES:

1. USE LINTEL SECTION THAT COINCIDES WITH OPENING CLEAR SPAN UNLESS OTHERWISE NOTED ON THE BUILDING ELEVATIONS.
2. THE SCHEDULE ABOVE APPLIES ONLY TO LINTELS SUPPORTING MASONRY IN RUNNING BOND.
3. PROVIDE LINTELS FOR ANY OPENING GREATER THAN 1'-4" IN NEW WALLS IN ACCORDANCE WITH THE SCHEDULE ABOVE. SHORE WALL ABOVE AS REQUIRED UNTIL NEW LINTEL IS INSTALLED. SEE ARCHITECTURAL AND MEP DRAWINGS FOR SIZE AND LOCATIONS OF PENETRATIONS.
4. SEE S-570 SERIES DRAWINGS FOR ADDTIONAL MISCELLANEOUS STEEL REQUIRED FOR LARGE OPENINGS.

2 MASONRY LINTEL SCHEDULE
NOT-TO-SCALE

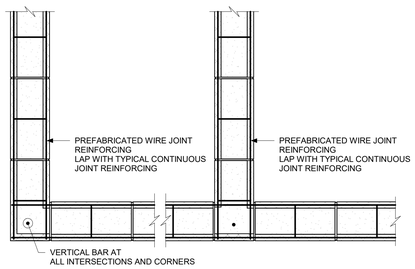


3 TYPICAL REINFORCED CMU WALL
SCALE: 1/2" = 1'-0"

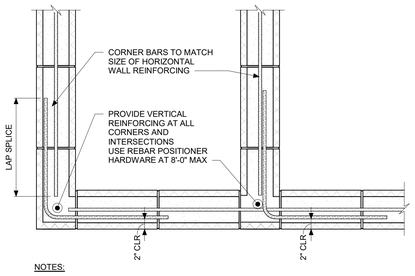
LINTEL SCHEDULE NOTES:

FOR ALL OPENINGS AND RECESSES IN BOTH INTERIOR AND EXTERIOR NON-LOAD BEARING WALLS NOT SHOWN ON STRUCTURAL DRAWINGS. PROVIDE THE FOLLOWING LINTELS:

1. STEEL LINTELS:
   - A. SEE S-570 SERIES DRAWINGS FOR STEEL LINTELS.
   - B. SEE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS, ETC FOR LINTEL ELEVATIONS AND CLEAR OPENINGS, ETC.
   - C. PROVIDE STEEL LINTELS WHERE SPECIFICALLY INDICATED AND FOR OPENINGS LARGER THAN COVERED BY THE LINTEL SCHEDULE.
   - D. ALL MASONRY BEARING STEEL LINTELS SHALL BE ANCHORED WITH (1) - 3/4"x0'-4" HOOKED ANCHOR BOLT AT EACH END INTO GROUT. PROVIDE SLOTTED HOLES IN LINTEL.
   - E. LINTELS WITH CLEAR SPAN OPENING OF 6'-0" OR LARGER, PROVIDE 100 PERCENT GROUT FILL FROM FOOTING (OR FLOOR BELOW) TO LINTEL BEARING.
   - F. LINTELS WITH CLEAR SPAN OPENING LESS THAN 6'-0", PROVIDE SOLID OR GROUTED MASONRY TO A MINIMUM DEPTH OF 2'-8" BELOW THE LINTEL BEARING.
   - G. ALL LINTELS SHALL BE CENTERED ON WALL THICKNESS, UNLESS OTHERWISE NOTED. BOTTOM LINTEL PLATE SHALL BE SHOP WELDED TO BEAM.
   - H. ANCHOR MASONRY ENCASING STEEL LINTEL BEAMS WITH CHANNEL SLOTS AND ANCHORS. WELD CHANNEL SLOTS TO EACH SIDE OF BEAM WEB AT 32". PROVIDE ONE LONGITUDINAL ROW FOR BEAMS UP TO 18" IN DEPTH AND 2 ROWS FOR DEEPER BEAMS.
   - I. ALL LINTELS EXPOSED TO WEATHER SHALL BE GALVANIZED.
   - J. CONTINUOUS PLATE CONNECTED TO LINTEL BOTTOM FLANGE SHALL BE PROVIDED FOR THE FULL LENGTH OF THE LINTEL UNLESS NOTED OTHERWISE.
2. CMU BLOCK LINTEL: USE WHERE MASONRY WALL IS EXPOSED IN A FINISHED ROOM.
   - A. REINFORCE LINTEL BLOCK AS INDICATED IN THE "MASONRY LINTEL SCHEDULE" FOR THE WALL THICKNESS AND CLEAR SPAN.
   - B. JOINTING SHALL BE AS ADJACENT WALL.
   - C. MINIMUM BEARING ON MASONRY WALL IS 8" EACH END BUT NOT LESS THAN 1" OF BEARING PER FOOT WIDTH OF OPENING SPAN.
   - D. LINTEL SHALL BE SHORED FOR 28 DAYS.
   - E. PROVIDE 100 PERCENT GROUT FILLED JAMB FROM FOOTING (OR FLOOR BELOW) TO LINTEL BEARING.
   - F. CONTRACTOR HAS THE OPTION TO PROVIDE PRECAST CONCRETE LINTELS WITH SAME DIMENSIONS AND REINFORCING GIVEN IN LINTEL SCHEDULE FOR CONDITIONS CONCEALED BY ARCHITECTURAL FINISHES.
3. OPENING IN VENEER
   - A. SEE S-570 SERIES DRAWINGS FOR LOOSE ANGLE LINTELS.



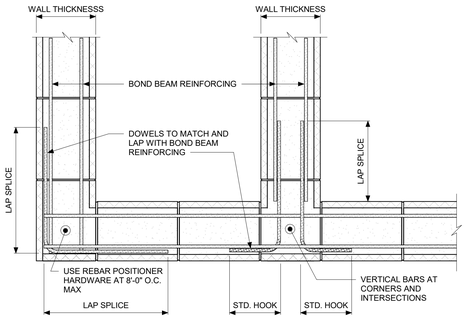
4 TYPICAL HORIZONTAL JOINT REINFORCING DETAIL
SCALE: 1" = 1'-0"



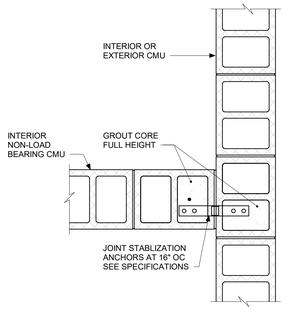
NOTES:

1. SEE INDIVIDUAL BUILDING PLANS FOR HORIZONTAL AND VERTICAL REINFORCING STEEL REQUIREMENTS.
2. SEE GENERAL NOTES FOR REINFORCING STEEL CLEARANCES.

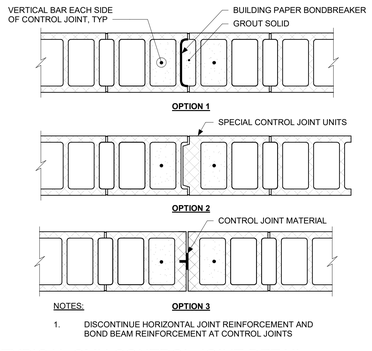
5 TYPICAL HORIZ BOND BEAM (1 BAR) REINFORCING
SCALE: 1" = 1'-0"



6 TYPICAL HORIZ BOND BEAM (2 BARS) REINFORCING
SCALE: 1" = 1'-0"



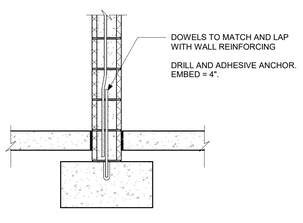
7 TYP CMU WALL CONTROL JOINT AT INTERSECTION
SCALE: 1" = 1'-0"



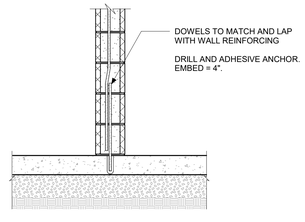
NOTES:

1. DISCONTINUE HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REINFORCEMENT AT CONTROL JOINTS

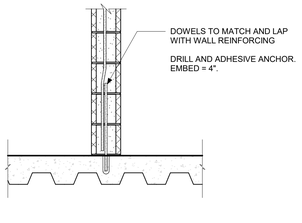
8 TYPICAL CMU CONTROL JOINT DETAIL
SCALE: 1" = 1'-0"



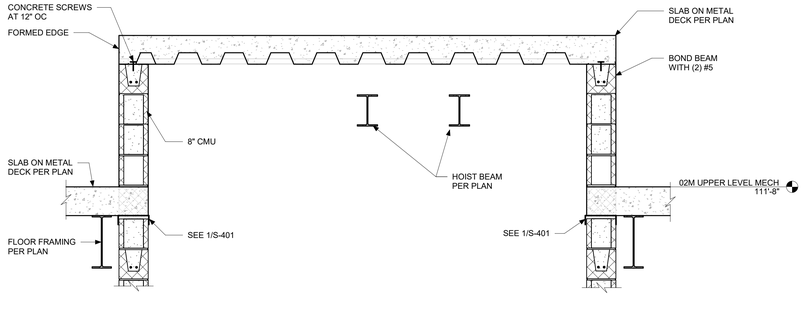
9 TYP CMU WALL AT FOOTING
SCALE: 3/4" = 1'-0"



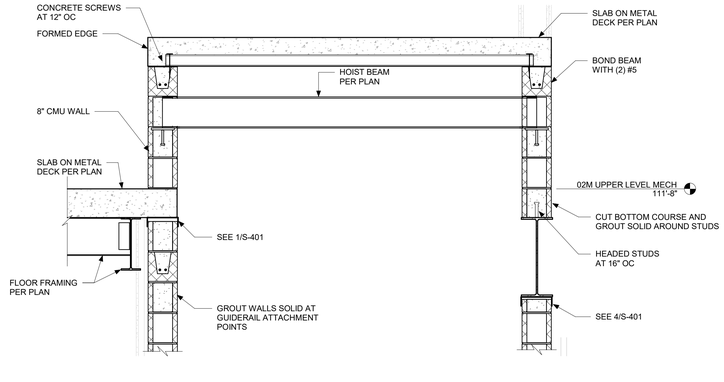
10 TYP CMU WALL AT SLAB ON GRADE
SCALE: 3/4" = 1'-0"



11 TYP CMU WALL AT SLAB ON METAL DECK
SCALE: 3/4" = 1'-0"



12 SECTION AT SERVICE ELEVATOR DOGHOUSE
SCALE: 3/4" = 1'-0"



13 SECTION AT SERVICE ELEVATOR DOGHOUSE
SCALE: 3/4" = 1'-0"

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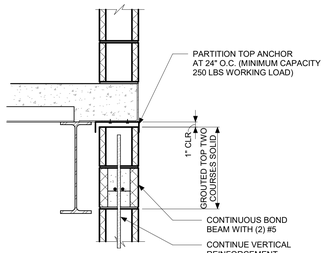
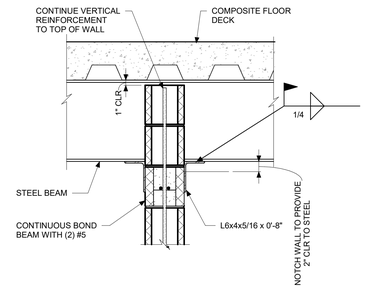
SHEET TITLE
TYPICAL MASONRY DETAILS

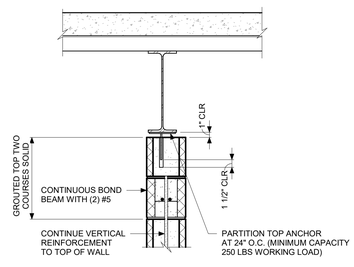
SHEET NUMBER
S-400



1 TYP CMU WALL CONNECTION AT FLOOR EDGE
SCALE: 1" = 1'-0"

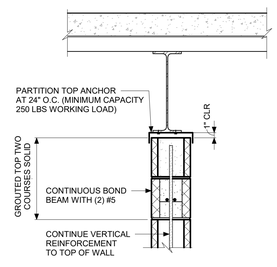


2 TYP CMU WALL TOP CONN AT PERP FLOOR BEAMS
SCALE: 1" = 1'-0"



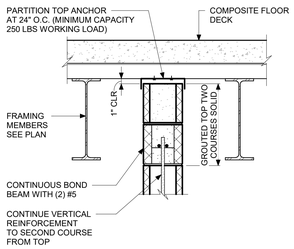
TO BE USED WHERE TOP OF WALL IS EXPOSED TO VIEW

3 TYP CMU WALL TOP CONNECTION
AT BOTTOM OF PARALLEL BEAM
SCALE: 1" = 1'-0"



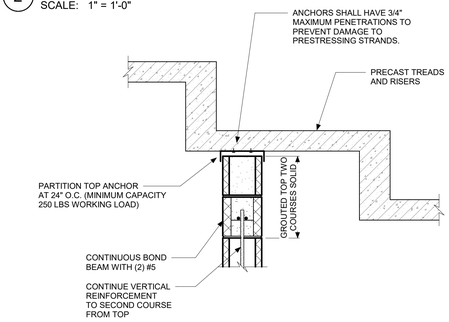
TO USED BE ABOVE CEILINGS

4 TYP CMU WALL TOP CONNECTION
AT BOTTOM OF PARALLEL BEAM
SCALE: 1" = 1'-0"

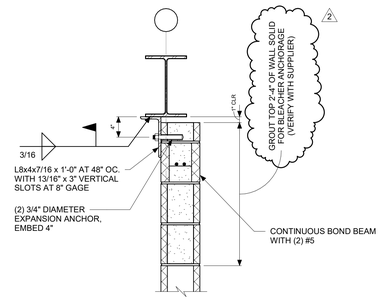


(WALLS PARALLEL TO STRUCTURAL MEMBERS)

5 TYP CMU WALL TOP CONNECTION BETWEEN
PARALLEL FLOOR BEAMS
SCALE: 1" = 1'-0"

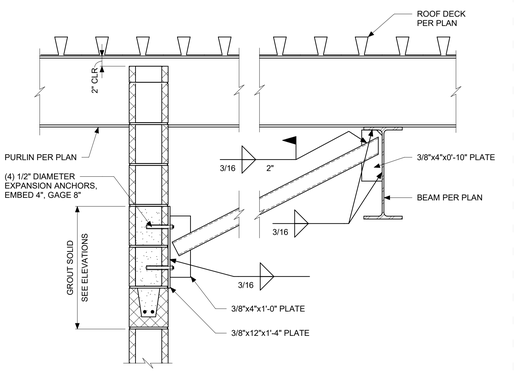


6 TYP CMU WALL TOP CONNECTION AT TREADS AND RISERS
SCALE: 1" = 1'-0"

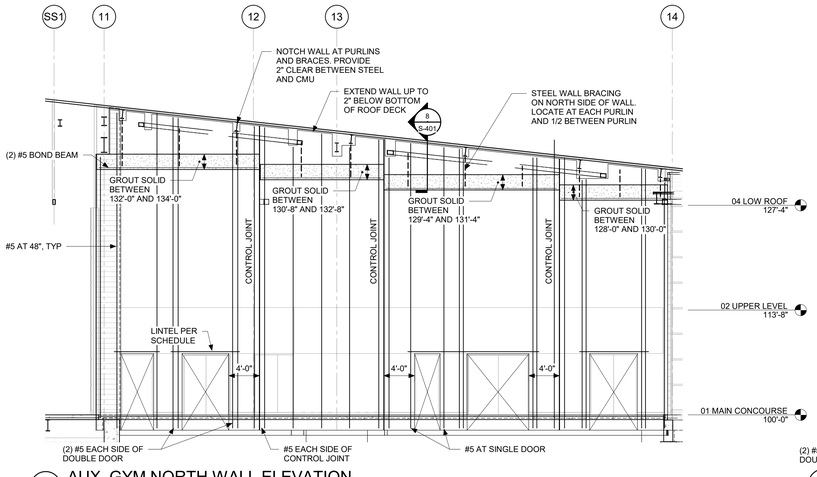


EVENT FLOOR PERIMETER CMU WALL
TYPICAL TOP ANCHORAGE

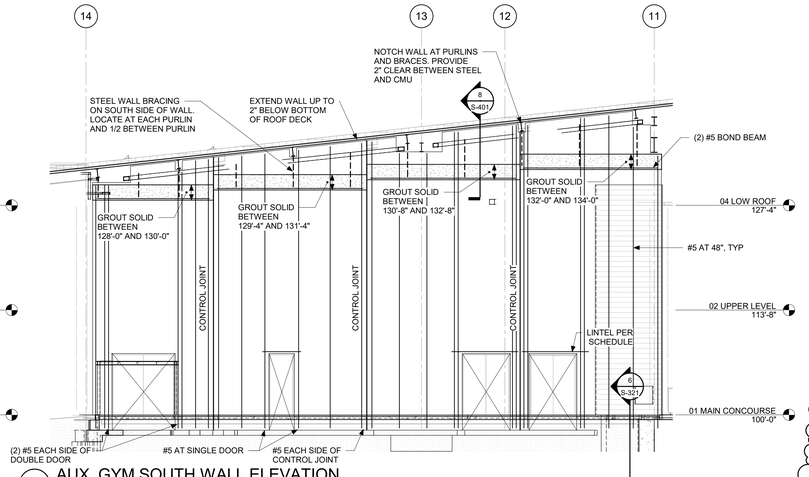
7 TYP CMU WALL TOP ANCHORAGE - EVENT LEVEL
PERIMETER BEHIND BLEACHERS
SCALE: 1" = 1'-0"



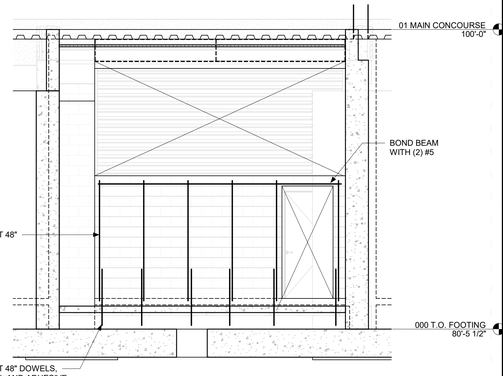
8 AUX. GYM - WALL BRACING
SCALE: 1" = 1'-0"



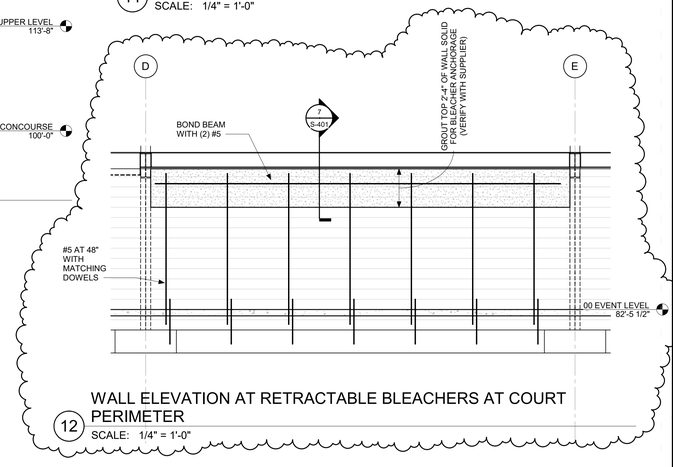
9 AUX. GYM NORTH WALL ELEVATION
NOT-TO-SCALE



10 AUX. GYM SOUTH WALL ELEVATION
SCALE: 1/8" = 1'-0"



11 WALL ELEVATION AT AREAWAY
SCALE: 1/4" = 1'-0"



12 WALL ELEVATION AT RETRACTABLE BLEACHERS AT COURT
PERIMETER
SCALE: 1/4" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER
REGISTERED
No. 10504738
STATE OF INDIANA
PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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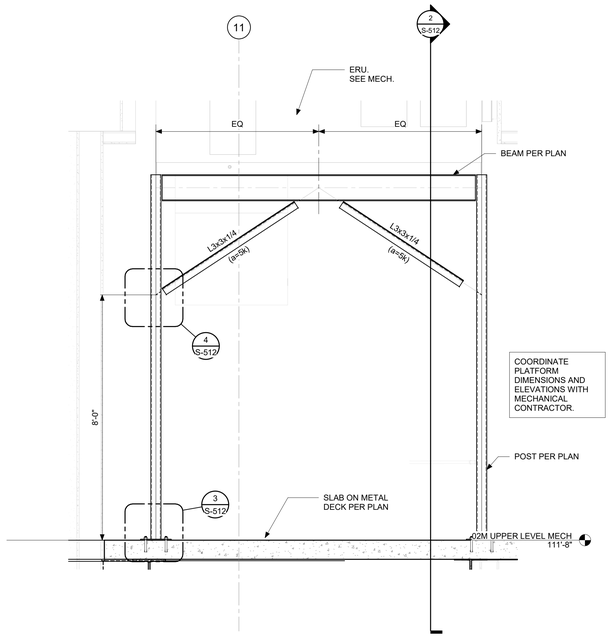
PROJECT NO. 23112.000

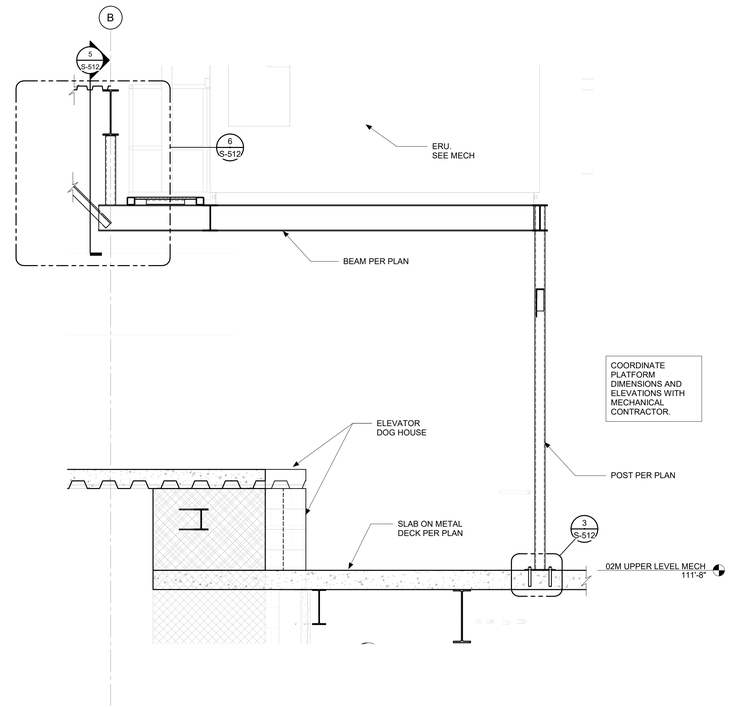
SHEET TITLE
TYPICAL CMU WALL ATTACHMENT DETAILS

SHEET NUMBER
S-401

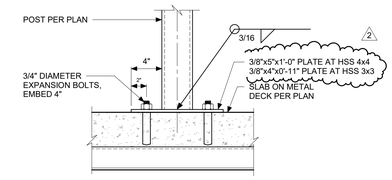
1/24/2025 3:14:08 PM



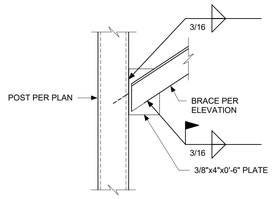
1 SECTION AT ERU SUPPORT
SCALE: 1/2" = 1'-0"



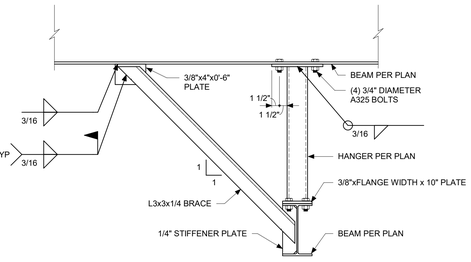
2 SECTION AT ERU SUPPORT
SCALE: 1/2" = 1'-0"



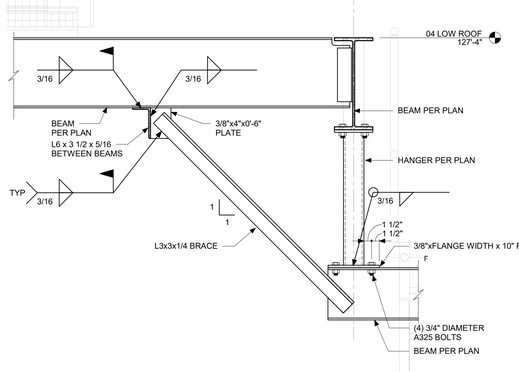
3 POST BASE DETAIL
SCALE: 1 1/2" = 1'-0"



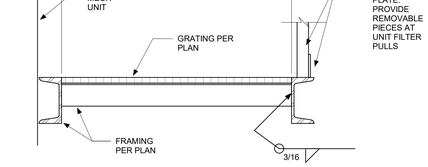
4 BRACE CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



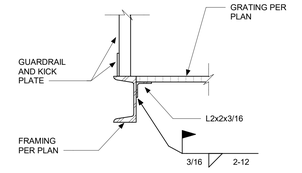
5 HANGER DETAIL
SCALE: 1" = 1'-0"



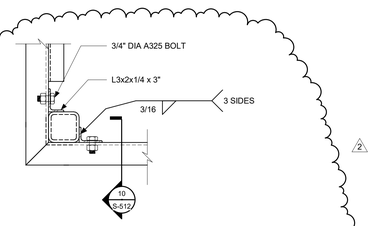
6 HANGER DETAIL
SCALE: 1" = 1'-0"



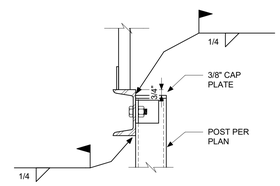
7 CATWALK SECTION
SCALE: 1 1/2" = 1'-0"



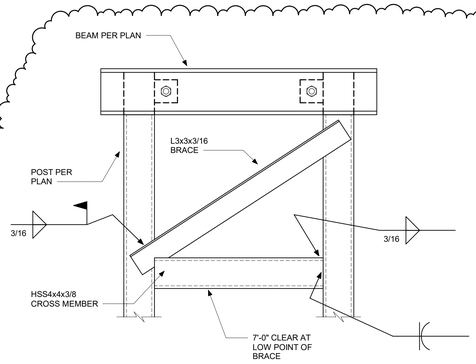
8 CATWALK SECTION
SCALE: 1 1/2" = 1'-0"



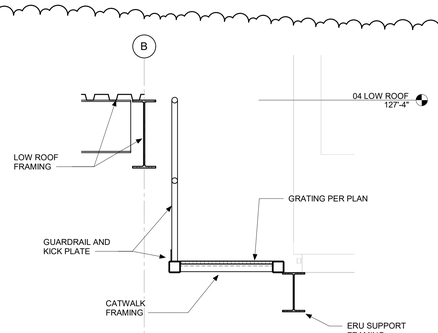
9 CATWALK DETAIL
SCALE: 1 1/2" = 1'-0"



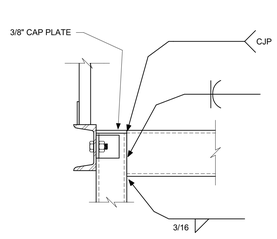
10 CATWALK SECTION
SCALE: 1 1/2" = 1'-0"



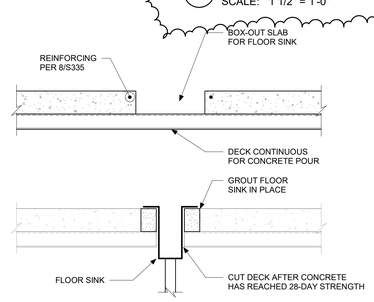
11 CATWALK BRACE
SCALE: 1 1/2" = 1'-0"



12 CATWALK FRAMING AT ERU
SCALE: 3/4" = 1'-0"



13 CATWALK SECTION
SCALE: 1 1/2" = 1'-0"



14 TYPICAL FLOOR SINK DETAIL
SCALE: 1" = 1'-0"

1/24/2025 3:14:13 PM

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER
Stephen J. Spitzer

SHEET ISSUE

1	Construction Documents	01/13/25
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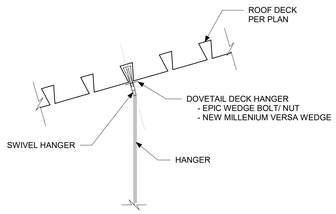
PROJECT NO. 23112.000

SHEET TITLE
STRUCTURAL STEEL FLOOR FRAMING DETAILS

SHEET NUMBER
S-512

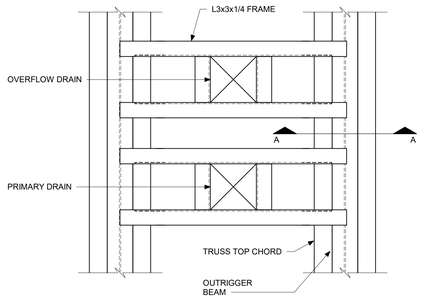


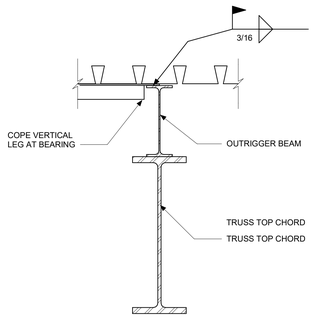
NOTES:

1. HANGER LOAD SHALL NOT EXCEED 50 LBS.
2. TOTAL LOAD ON MULTIPLE HANGERS WITHIN 2' SHALL NOT EXCEED 50 LBS.

1 TYPICAL HANGER ATTACHMENT TO DECK - 50 LBS MAX

SCALE: 1" = 1'-0"

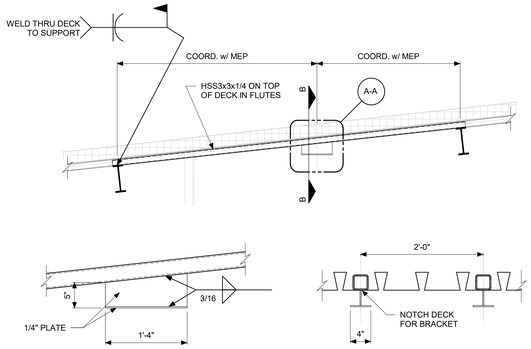




SECTION A

NOTES:

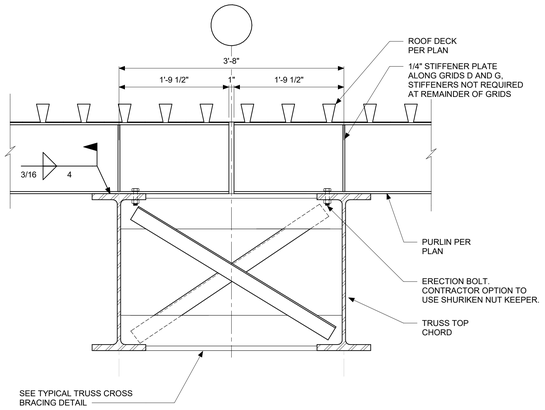
1. COORDINATE SIZE AND LOCATION WITH PLUMBING CONTRACTOR PRIOR TO FABRICATION



SECTION A-A **SECTION B-B**

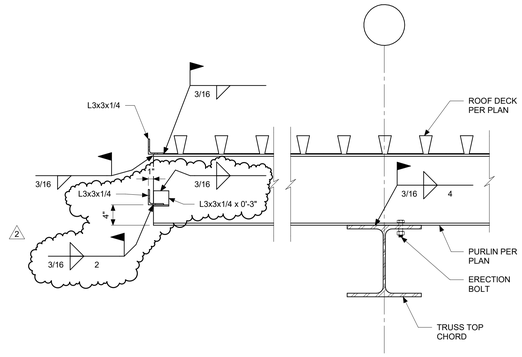
2 TYPICAL BIG FAN AND SPORTS LIGHTING SUPPORT

SCALE: 3/8" = 1'-0"



3 SECTION AT CAMERA HANGER

SCALE: 1" = 1'-0"



4 TYPICAL ROOF DRAIN FRAME

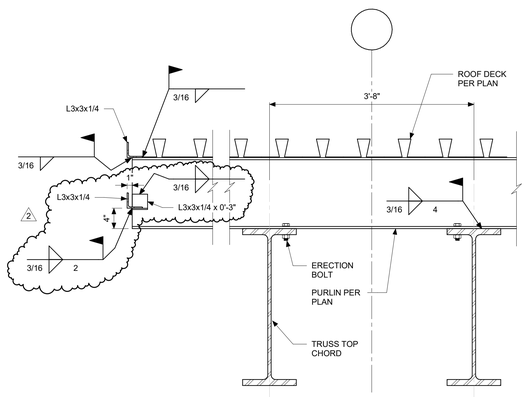
SCALE: 1" = 1'-0"

5 TYPICAL INTERIOR PURLIN BEARING

SCALE: 1" = 1'-0"

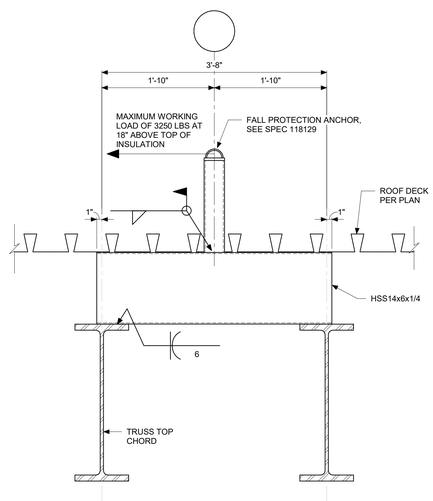
6 TYPICAL PERIMETER PURLIN BEARING

SCALE: 1" = 1'-0"



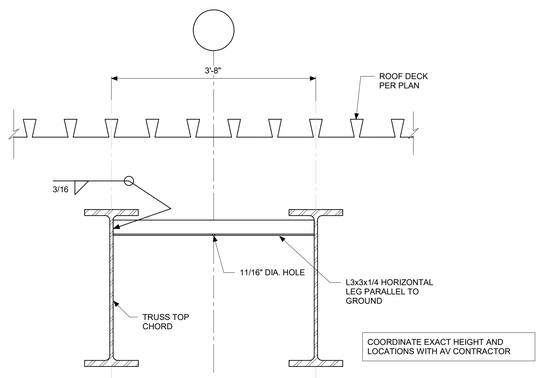
7 TYPICAL PERIMETER PURLIN BEARING

SCALE: 1" = 1'-0"



8 TYPICAL ROOF ANCHOR

SCALE: 1" = 1'-0"



9 TYPICAL SPEAKER SUPPORT

SCALE: 1" = 1'-0"

1/24/2025 3:14:16 PM

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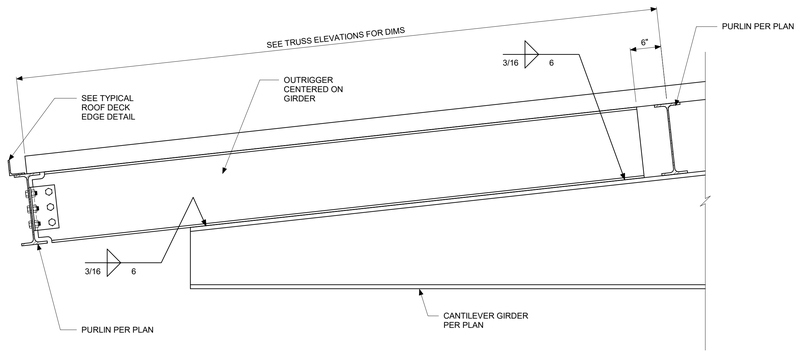
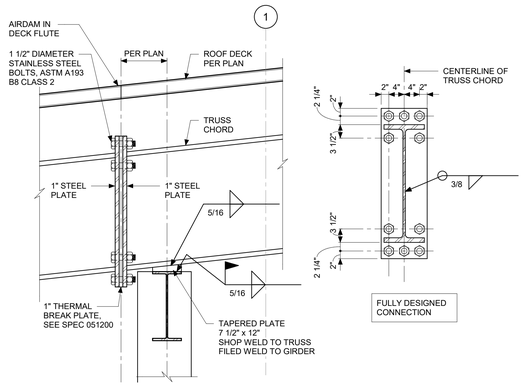
PROJECT NO. 23112.000

SHEET TITLE
ROOF FRAMING DETAILS

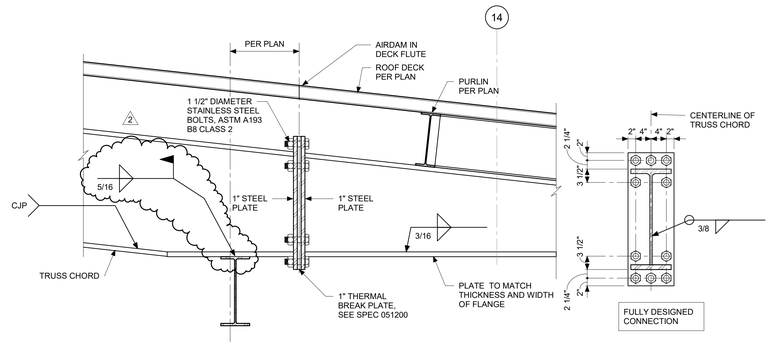
SHEET NUMBER
S-532



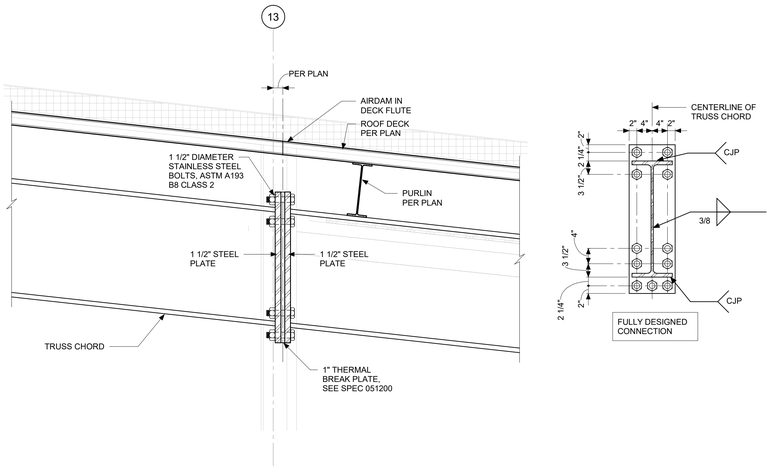
1 TYPICAL CANTILEVER END
SCALE: 1" = 1'-0"



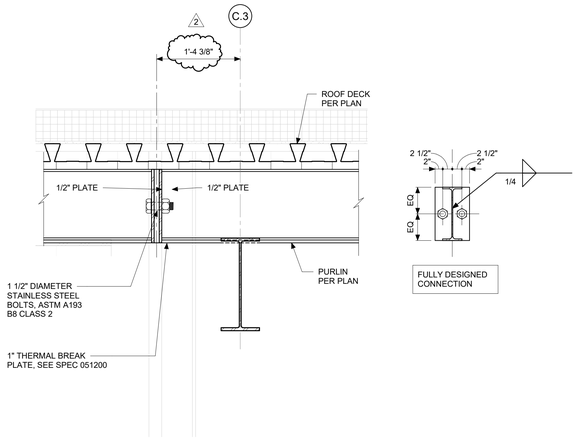
2 WEST BEARING AND THERMAL BREAK
SCALE: 3/4" = 1'-0"



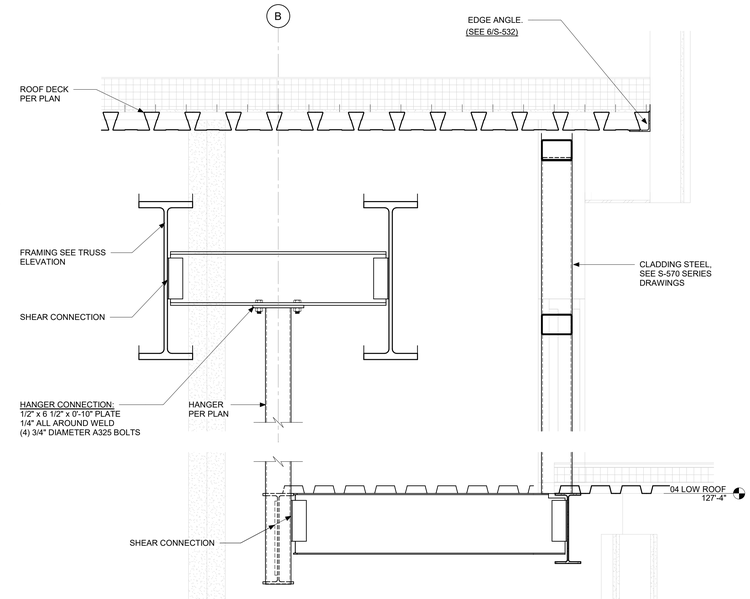
3 EAST BEARING AND THERMAL BREAK
SCALE: 3/4" = 1'-0"



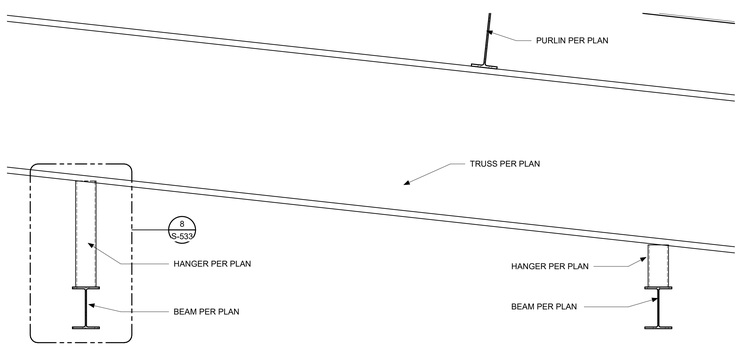
4 NE AND SE THERMAL BREAK
SCALE: 3/4" = 1'-0"



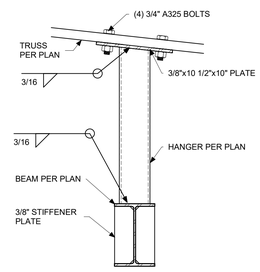
5 PURLIN THERMAL BREAK
SCALE: 1" = 1'-0"



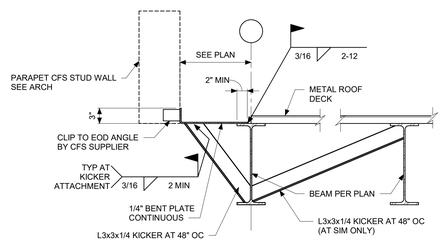
6 SECTION AT HANGER
SCALE: 1" = 1'-0"



7 SECTION AT PRACTICE GYM BASKETBALL HOOP
SCALE: 1" = 1'-0"



8 BASKETBALL HOOP HANGER CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



NOTES:

1. LOCATION OF BENT PLATE EDGE SHALL BE ADJUSTED IN FIELD TO WITHIN AISC TOLERANCES FOR ADJUSTABLE ITEMS (+/- 3/8") FROM THEORETICAL CENTERLINE OF BEAM (NOT ERECTED CENTERLINE OF BEAM). AT ELEVATOR SHAFTS LOCATE WITHIN (0"/+ 1/2") FROM INTERIOR OF SHAFT.

TYPICAL ROOF DECK EDGE DETAIL AT CFS STUD PARAPET ABOVE CURTAIN WALL
9
SCALE: 1" = 1'-0"

1/24/2025 3:14:19 PM

IN128 - JAMES T. MORRIS ARENA

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Code Consultant
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816-806-3729

SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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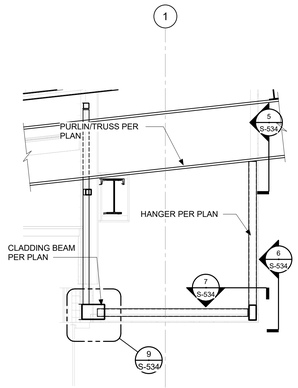
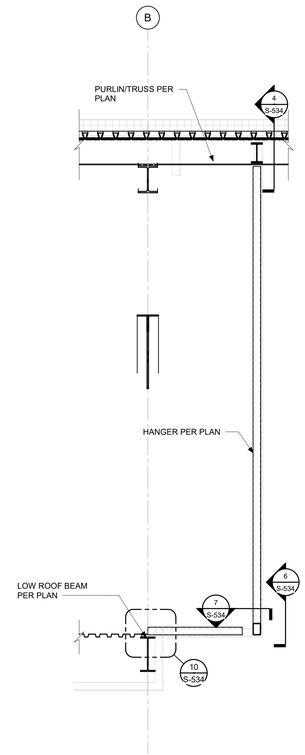
PROJECT NO. 23112.000

SHEET TITLE
ROOF FRAMING DETAILS

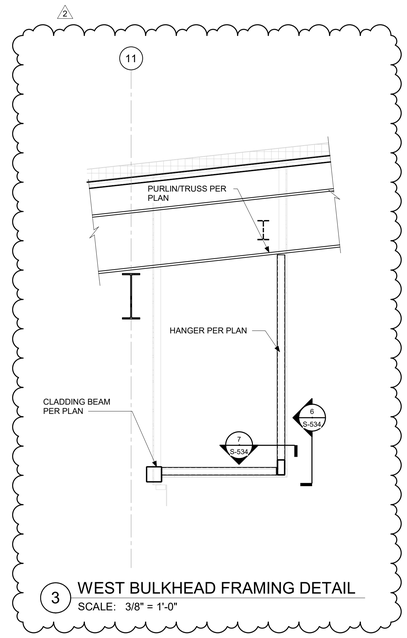
SHEET NUMBER
S-533



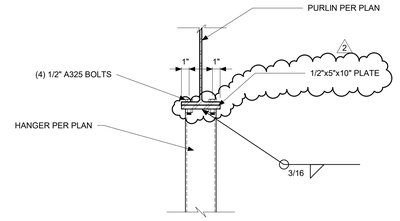
1 EAST BULKHEAD FRAMING DETAIL
SCALE: 3/8" = 1'-0"



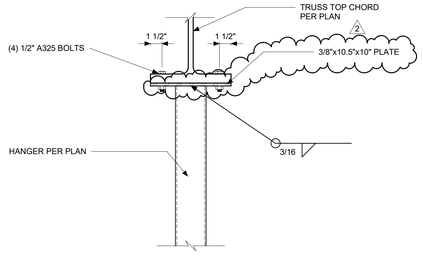
2 NORTH/SOUTH BULKHEAD FRAMING DETAIL
SCALE: 3/8" = 1'-0"



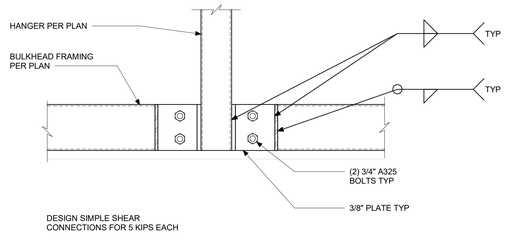
3 WEST BULKHEAD FRAMING DETAIL
SCALE: 3/8" = 1'-0"



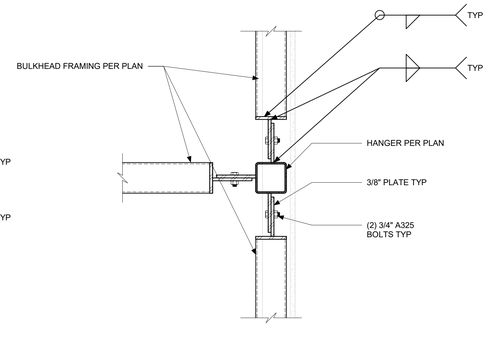
4 BULKHEAD HANGER ON PURLIN CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



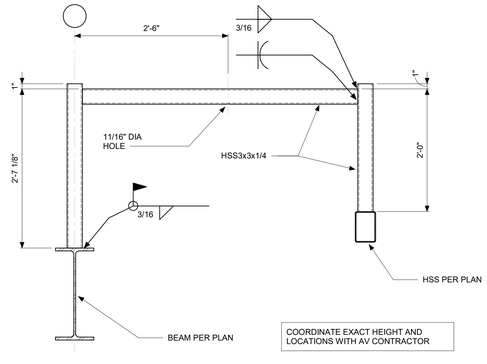
5 BULKHEAD HANGER ON TRUSS CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



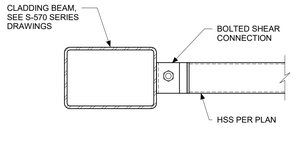
6 BULKHEAD FRAMING CONNECTION DETAIL ELEVATION
SCALE: 1 1/2" = 1'-0"



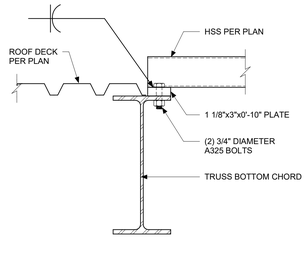
7 BULKHEAD FRAMING CONNECTION DETAIL PLAN
SCALE: 1 1/2" = 1'-0"



8 TYPICAL SPEAKER SUPPORT
SCALE: 1" = 1'-0"



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



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

1/24/2025 3:14:24 PM

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SEAL | DATE 01/27/25

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SHEET ISSUE

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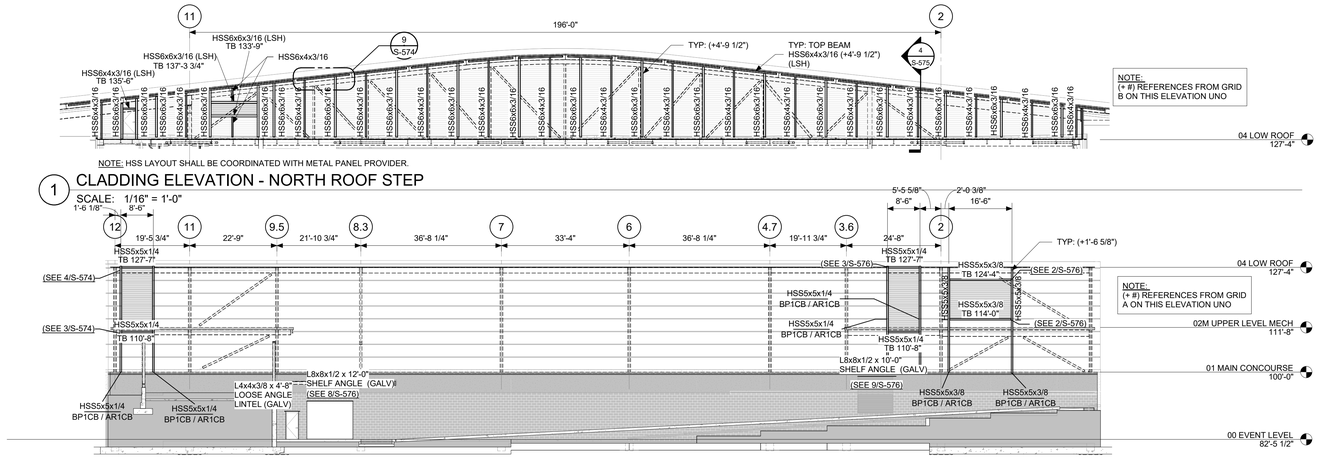
RATIO

PROJECT NO. 23112.000

SHEET TITLE
ROOF FRAMING DETAILS

SHEET NUMBER
S-534



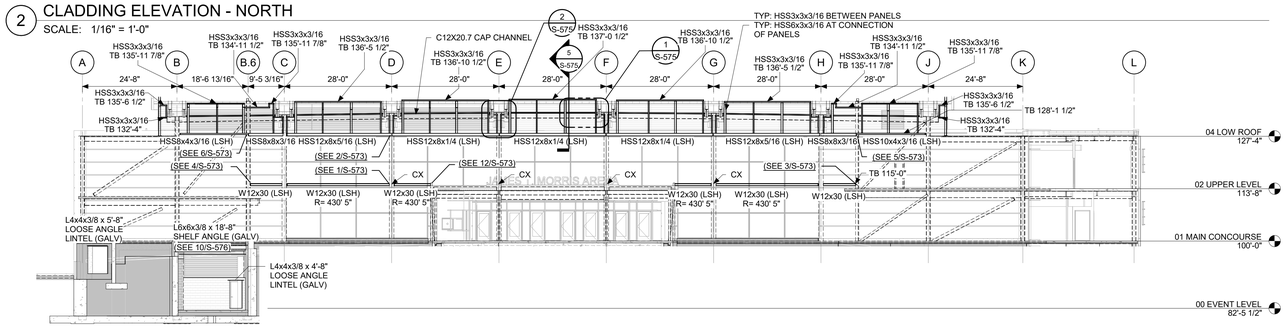
NOTE: HSS LAYOUT SHALL BE COORDINATED WITH METAL PANEL PROVIDER.

1 CLADDING ELEVATION - NORTH ROOF STEP

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

2 CLADDING ELEVATION - NORTH

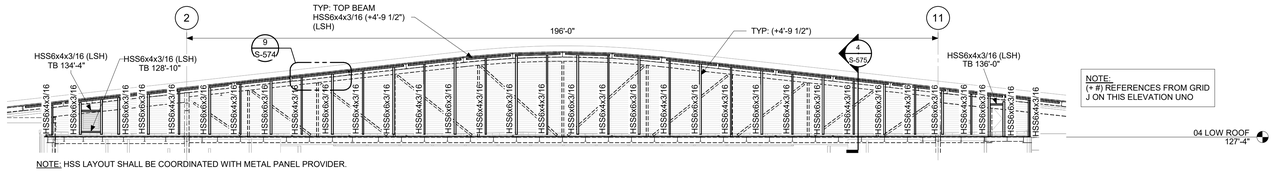
SCALE: 1/16" = 1'-0"



NOTE: HSS LAYOUT SHALL BE COORDINATED WITH METAL PANEL PROVIDER.

3 CLADDING ELEVATION - WEST

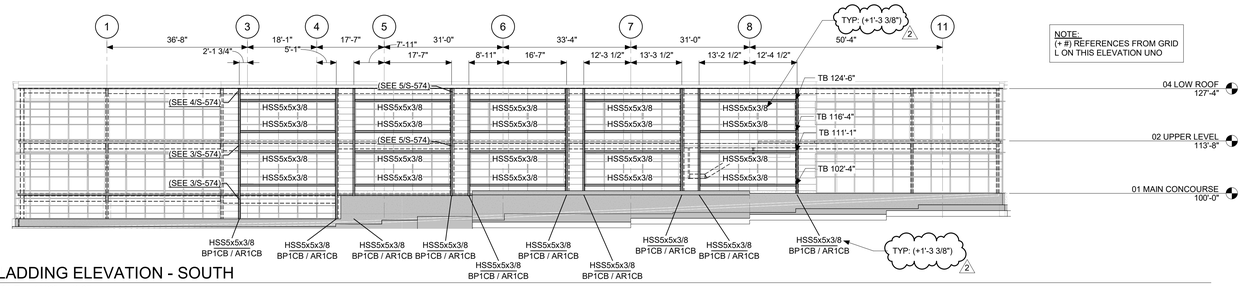
SCALE: 1/16" = 1'-0"



NOTE: HSS LAYOUT SHALL BE COORDINATED WITH METAL PANEL PROVIDER.

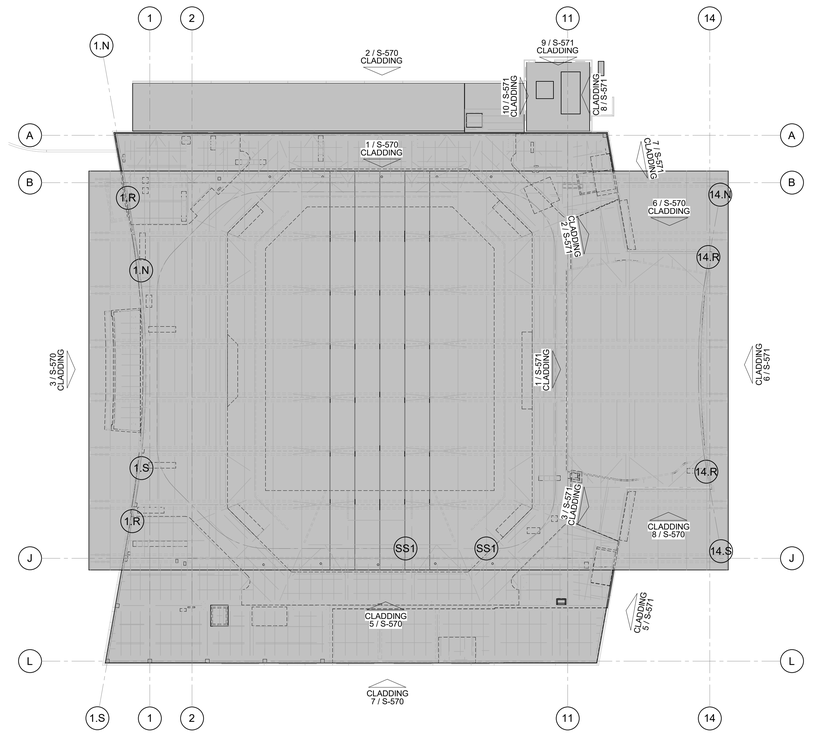
5 CLADDING ELEVATION - SOUTH ROOF STEP

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



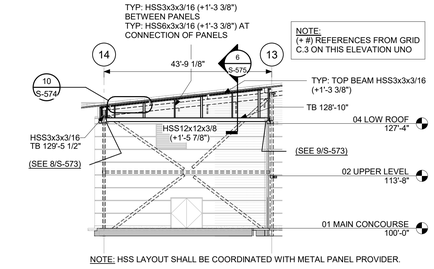
7 CLADDING ELEVATION - SOUTH

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



4 CLADDING BACKUP ELEVATION KEYPLAN

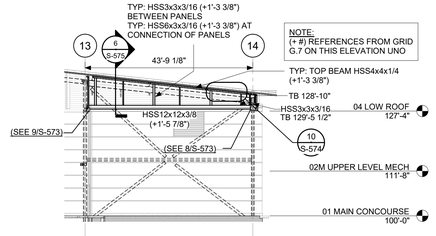
SCALE: 1/32" = 1'-0"



NOTE: HSS LAYOUT SHALL BE COORDINATED WITH METAL PANEL PROVIDER.

6 CLADDING ELEVATION - NORTH

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



NOTE: HSS LAYOUT SHALL BE COORDINATED WITH METAL PANEL PROVIDER.

8 CLADDING ELEVATION - SOUTH

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

STEEL CLADDING BACKUP ELEVATION NOTES:

1. SEE S-000 SERIES DRAWINGS FOR GENERAL NOTES, DESIGN INFORMATION, LOADING CRITERIA AND CLADDING BACKUP CRITERIA.
2. SEE S-005 FOR FINISH REQUIREMENTS.
2. SEE S-573 FOR CLADDING BACKUP TYPICAL DETAILS.
3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. SEE ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL PUNCHED OPENINGS THROUGH GRANITE AND CMU VENEER. PROVIDE L4x4x3/8 FOR OPENINGS 4'-0" AND LESS. CONTRACT SRUCTURAL ENGINEER FOR LARGER OPENINGS.
5. +/- XX" INDICATES OUTSIDE FACE OF STRUCTURAL STEEL FROM COLUMN LINE.

LEGEND

EP - INDICATES EMBED PLATE

LL - INDICATES LOOSE LINTEL

LLH - INDICATES LONG LEG HORIZONTAL

LLV - INDICATES LONG LEG VERTICAL

LSH - INDICATES LONG SIDE HORIZONTAL

LSV - INDICATES LONG SIDE VERTICAL

BS - INDICATES BOTTOM OF STEEL ELEVATION

TS - INDICATES TOP OF STEEL ELEVATION

CX - INDICATES COLUMN PENETRATION. (SEE 10/S-573)

R= INDICATES BEAM RADIUS

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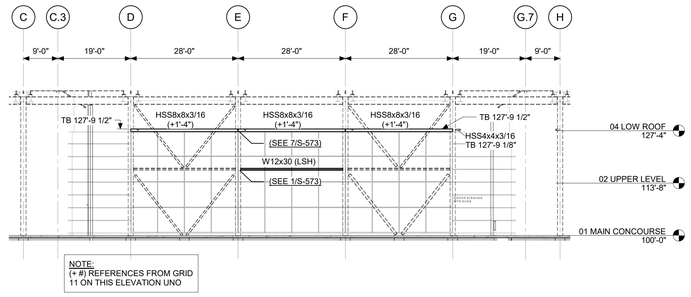
PROJECT NO. 23112.000

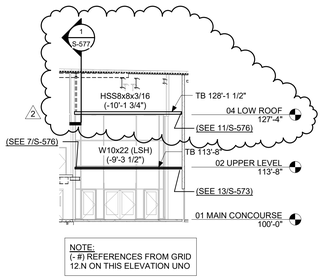
SHEET TITLE
CLADDING BACKUP ELEVATIONS

SHEET NUMBER
S-570

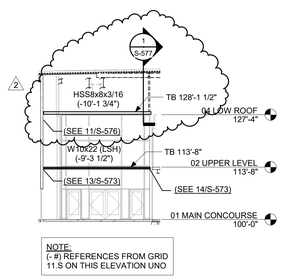
1/24/2025 3:14:53 PM



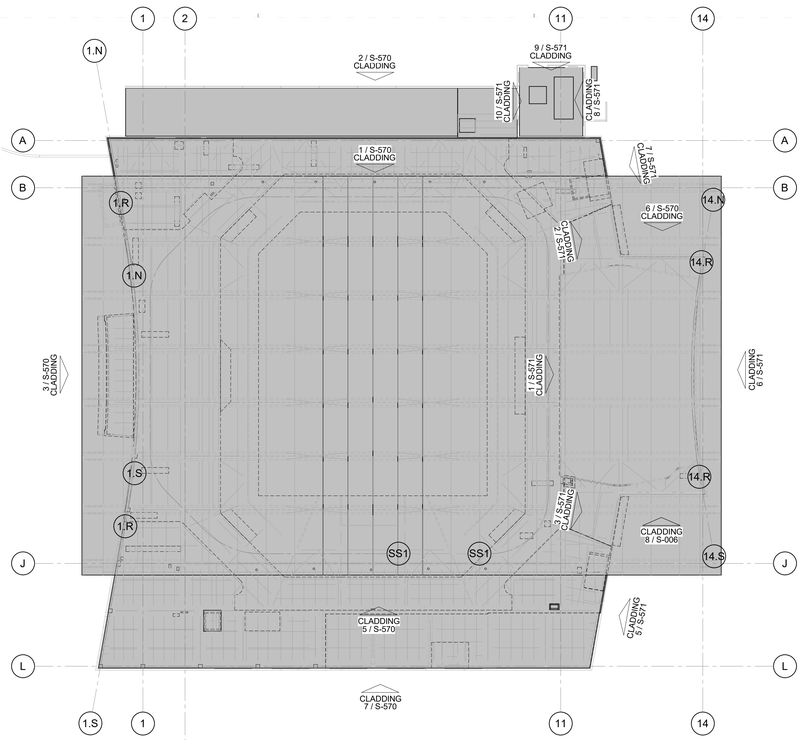
1 CLADDING ELEVATION - PRACTICE GYM WALL
SCALE: 1/16" = 1'-0"



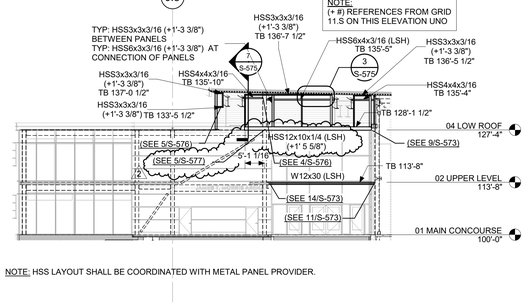
2 CLADDING ELEV. - NE VESTIBULE
SCALE: 1/16" = 1'-0"



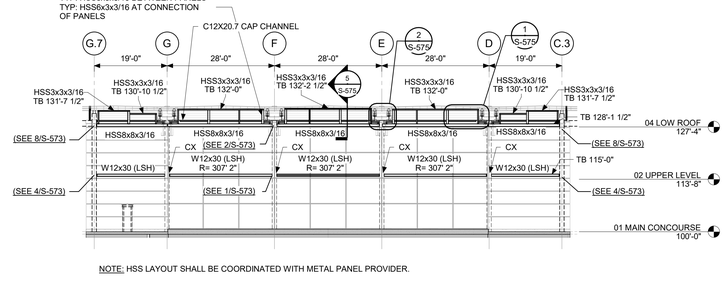
3 CLADDING ELEV. - SE VESTIBULE
SCALE: 1/16" = 1'-0"



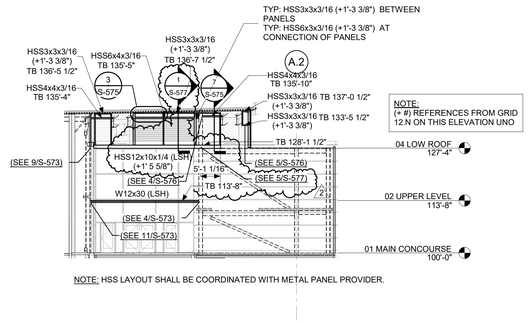
4 CLADDING BACKUP ELEVATION KEYPLAN
SCALE: 1/32" = 1'-0"



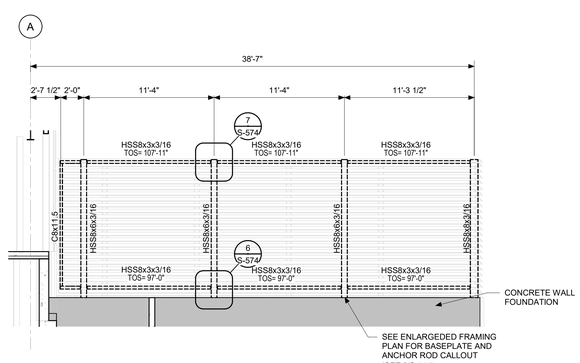
5 CLADDING ELEVATION - EAST
SCALE: 1/16" = 1'-0"



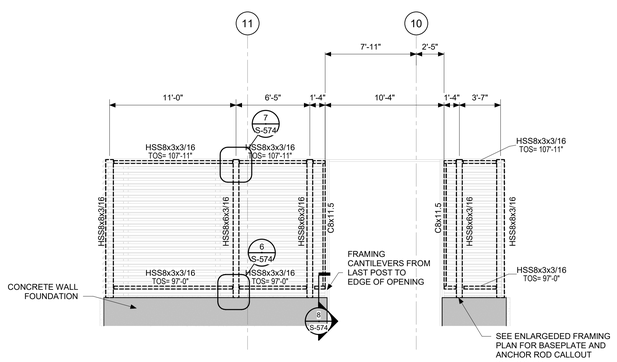
6 CLADDING ELEVATION - EAST
SCALE: 1/16" = 1'-0"



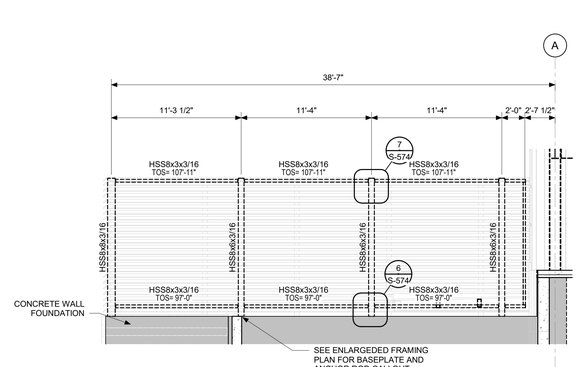
7 CLADDING ELEVATION - EAST
SCALE: 1/16" = 1'-0"



8 SERVICE YARD ELEVATION - EAST
SCALE: 3/16" = 1'-0"



9 SERVICE YARD ELEVATION - NORTH
SCALE: 3/16" = 1'-0"



10 SERVICE YARD ELEVATION - WEST
SCALE: 3/16" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46220

IU Project NO. 20240127

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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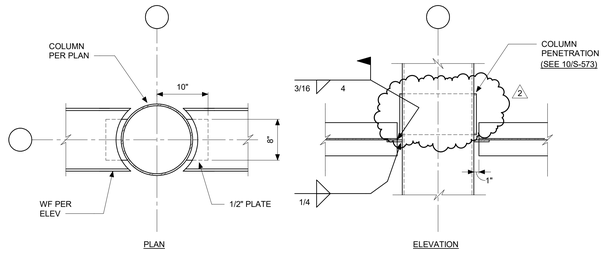
PROJECT NO. 23112.000

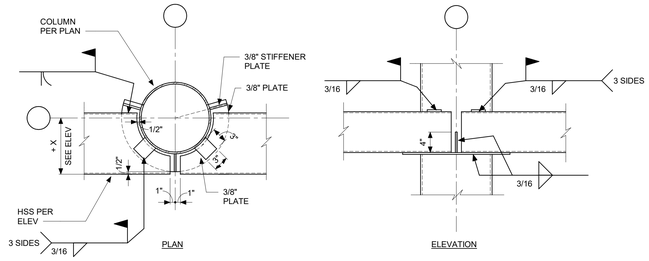
SHEET TITLE
CLADDING BACKUP ELEVATIONS

SHEET NUMBER
S-571

1/24/2025 3:15:21 PM



1 TYPICAL CLADDING CONNECTION - WF TO HSS COLUMN
SCALE: 1" = 1'-0"



2 TYPICAL CLADDING CONNECTION - HSS TO HSS COLUMN
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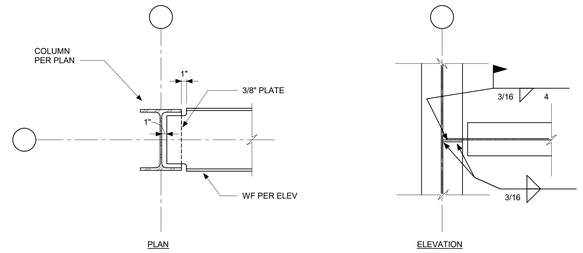

3 TYPICAL CLADDING CONNECTION - WF TO WF COLUMN
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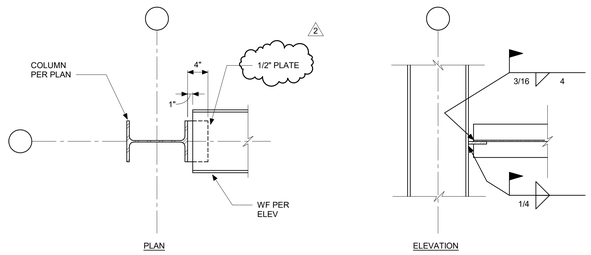

4 TYPICAL CLADDING CONNECTION - WF TO WF COLUMN
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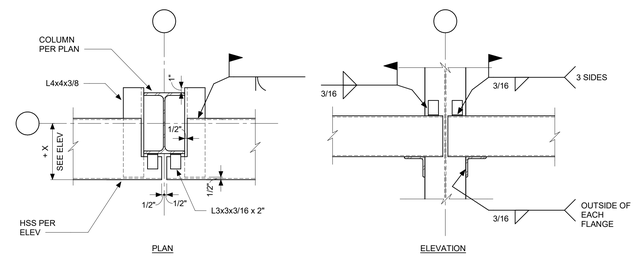

5 TYPICAL CLADDING CONNECTION - HSS TO WF COLUMN
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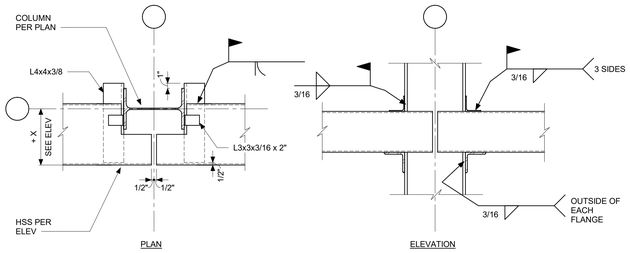
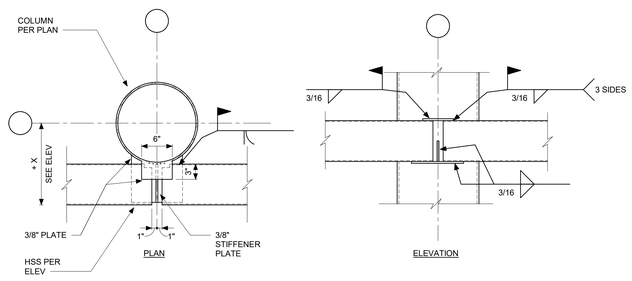


6 TYPICAL CLADDING CONNECTION - HSS TO WF COLUMN
SCALE: 1" = 1'-0"



7 TYPICAL CLADDING CONNECTION - HSS TO HSS COLUMN
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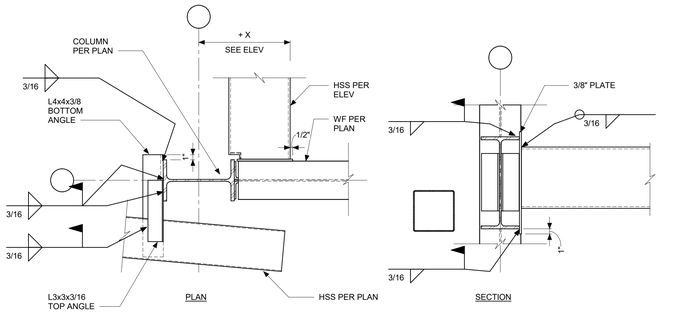
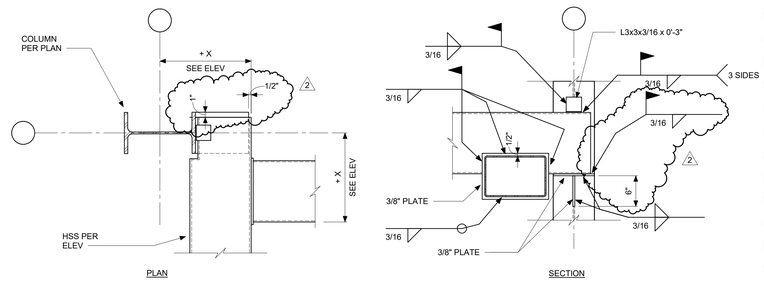
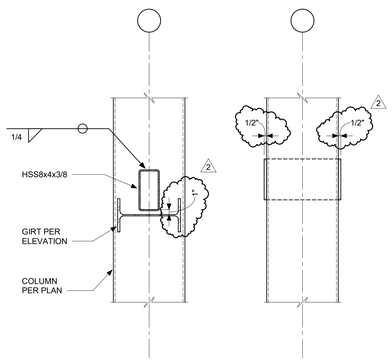


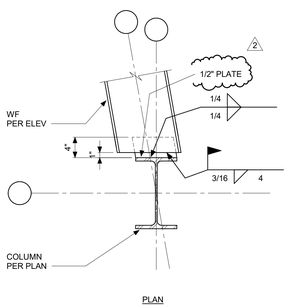
8 CLADDING CONNECTION - NE AND SE ENTRY
SCALE: 1" = 1'-0"



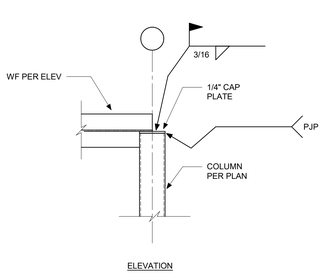
9 CLADDING CONNECTION - NE AND SE ENTRY
SCALE: 1" = 1'-0"



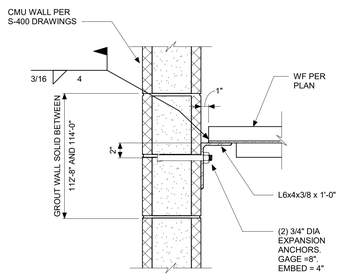
10 COLUMN PENETRATION FOR HYDRONIC PIPING
SCALE: 1" = 1'-0"



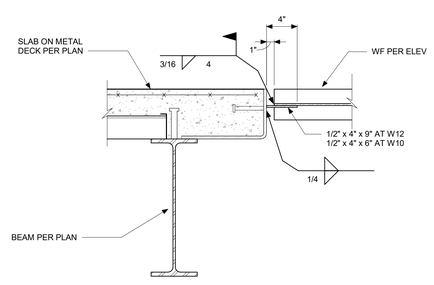
11 GIRT TO COLUMN - SKEWED
SCALE: 1" = 1'-0"



12 GIRT TO COLUMN - VESTIBULE
SCALE: 1" = 1'-0"



13 GIRT TO CMU WALL
SCALE: 1 1/2" = 1'-0"



14 GIRT TO EDGE OF SLAB
SCALE: 1 1/2" = 1'-0"

1/24/2025 3:15:24 PM

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SEAL | DATE 01/27/25

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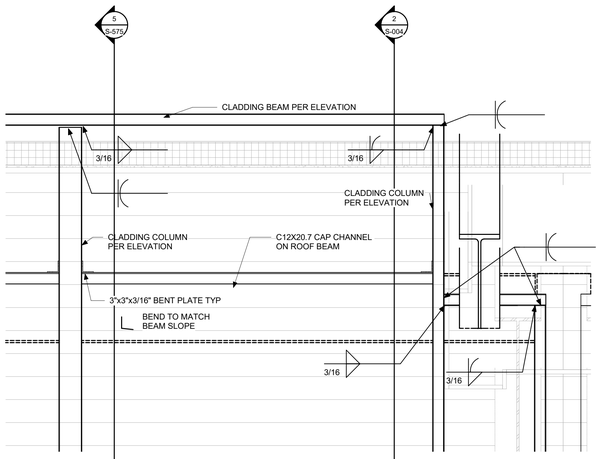
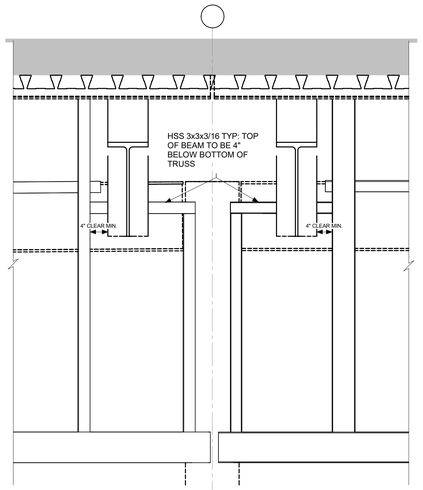
PROJECT NO. 23112.000

SHEET TITLE
CLADDING BACKUP CONNECTION DETAILS

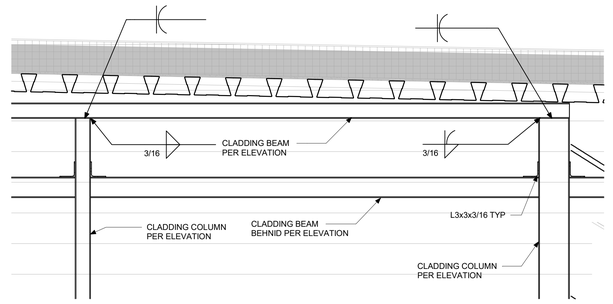
SHEET NUMBER
S-573



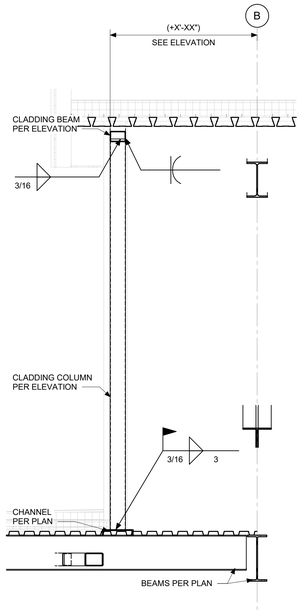
1 CLADDING CONNECTION AT TRUSS
SCALE: 3/4" = 1'-0"



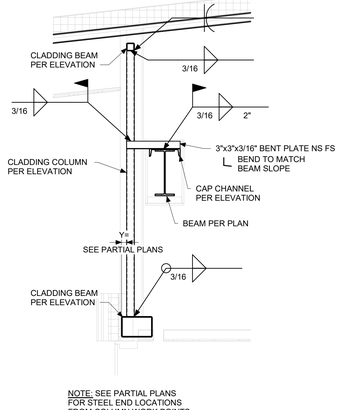
2 CLADDING CONNECTION AT TRUSS
SCALE: 3/4" = 1'-0"



3 CLADDING CONNECTION AT TRUSS W/ HSS TUBE BEHIND
SCALE: 1" = 1'-0"

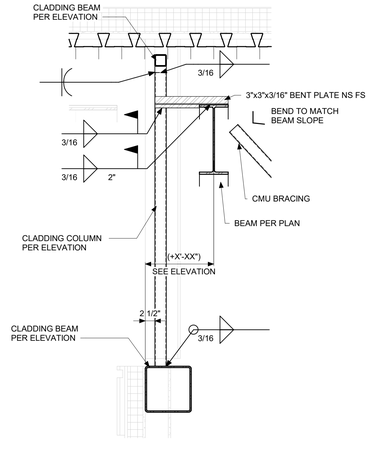


4 METAL PANEL CLADDING SECTION
SCALE: 1/2" = 1'-0"

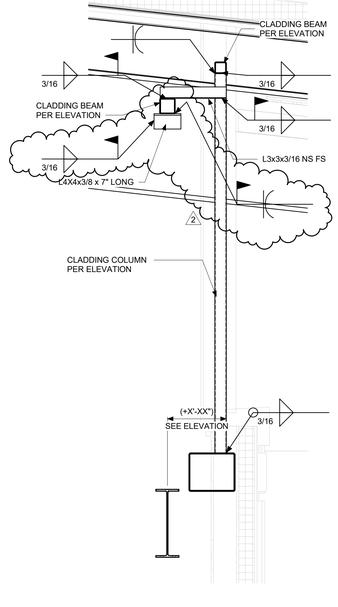


NOTE: SEE PARTIAL PLANS FOR STEEL END LOCATIONS FROM COLUMN WORK POINTS

5 METAL PANEL CLADDING SECTION
SCALE: 1/2" = 1'-0"



6 METAL PANEL CLADDING SECTION
SCALE: 3/4" = 1'-0"



7 METAL PANEL CLADDING SECTION
SCALE: 3/4" = 1'-0"

1/24/2025 3:15:30 PM

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

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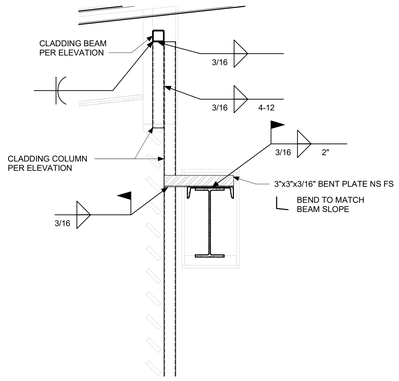
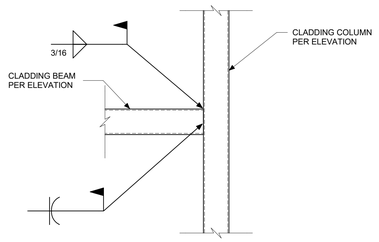
PROJECT NO. 23112.000

SHEET TITLE
CLADDING BACKUP CONNECTION DETAILS

SHEET NUMBER
S-575



1 TYPICAL METAL PANEL CLADDING AT LOUVER
SCALE: 3/4" = 1'-0"



2 TYPICAL CLADDING TUBE CONNECTION
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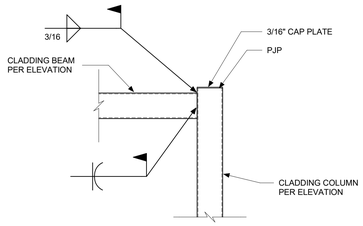
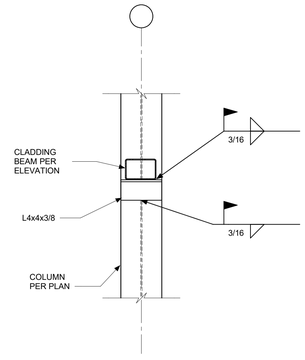
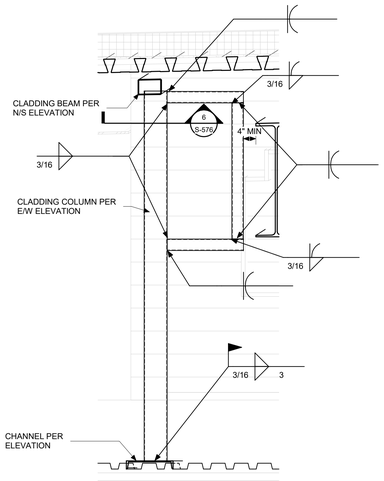


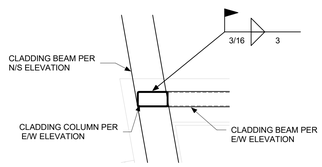
3 TYPICAL CLADDING TUBE CONNECTION TOP
SCALE: 1" = 1'-0"



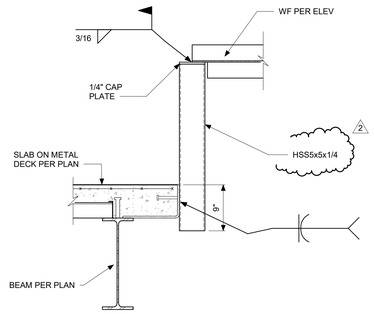
4 METAL PANEL CLADDING TUBE TO WF COLUMN
SCALE: 1" = 1'-0"



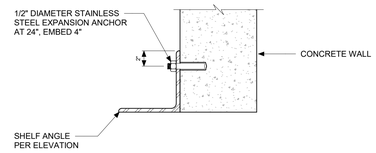
5 CLADDING AT CORNER OF METAL PANEL
SCALE: 3/4" = 1'-0"



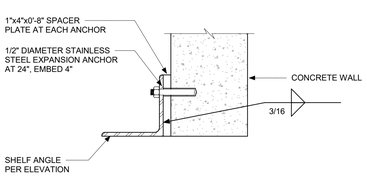
6 CLADDING AT CORNER OF METAL PANEL
SCALE: 1" = 1'-0"



7 GIRT TO EDGE OF SLAB
SCALE: 1" = 1'-0"



8 SHELF ANGLE AT CMU VENEER
SCALE: 1 1/2" = 1'-0"



9 SHELF ANGLE AT GRANITE VENEER
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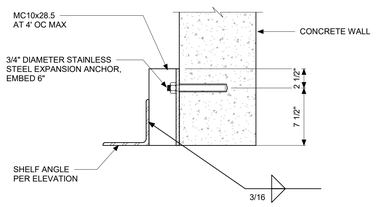

10 SHELF ANGLE AT AREAWAY
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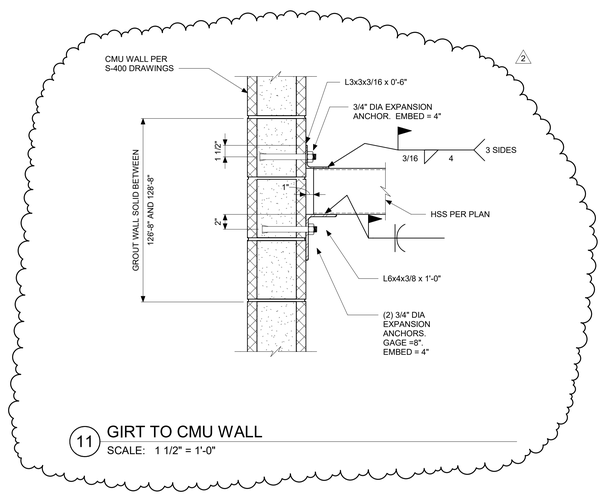

11 GIRT TO CMU WALL
SCALE: 1 1/2" = 1'-0"

1/24/2025 3:15:33 PM

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2	Addendum 01	01/27/25

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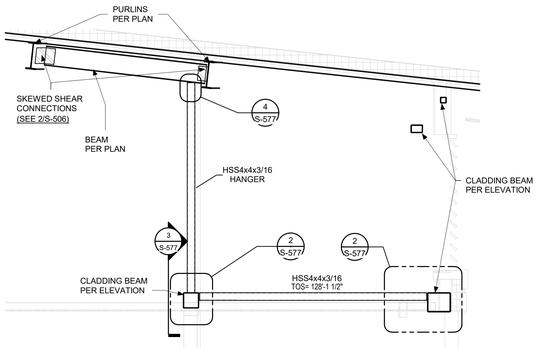
PROJECT NO. 23112.000

SHEET TITLE
CLADDING BACKUP CONNECTION DETAILS

SHEET NUMBER
S-576



1 CLADDING SECTION AT VESTIBULE
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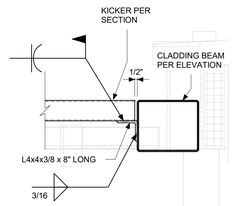
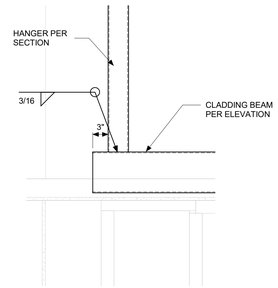
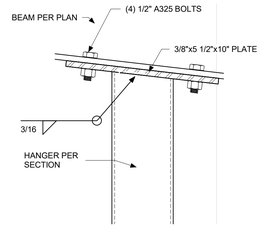


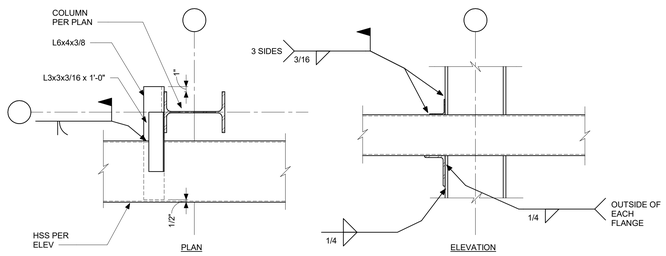
2 CLADDING CONNECTION- HSS KICKER TO HSS
SCALE: 1" = 1'-0"



3 CLADDING CONNECTION - HANGER TO HSS
SCALE: 1" = 1'-0"



4 CLADDING CONNECTION - HANGER TO WF
SCALE: 3" = 1'-0"



5 TYPICAL CLADDING CONNECTION - HSS TO WF COLUMN
SCALE: 1" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

STEPHEN J. SPITZER REGISTERED No. 10504738 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	Construction Documents	01/13/25
2	Addendum 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
CLADDING BACKUP CONNECTION DETAILS

SHEET NUMBER 2
S-577

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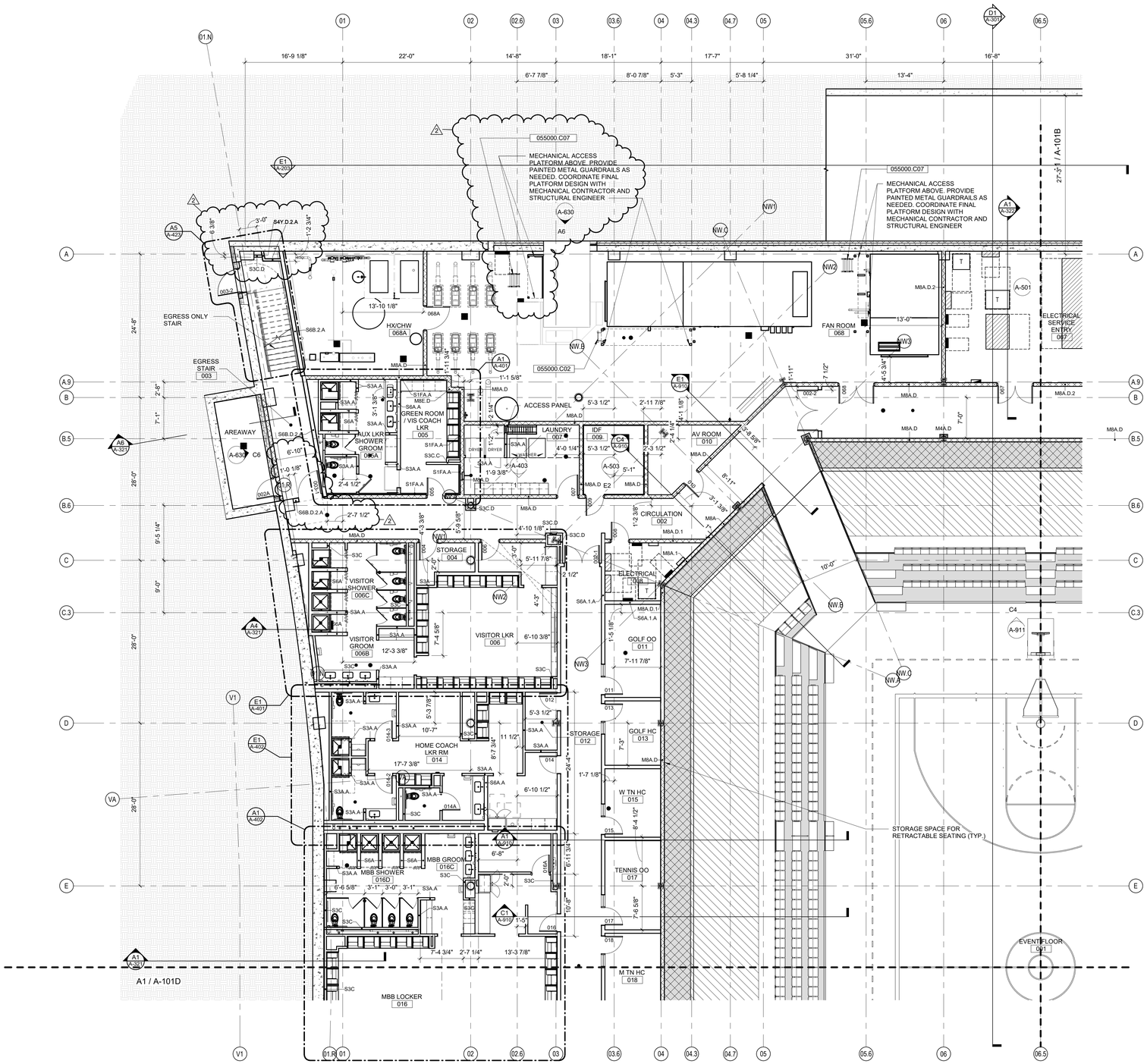

A1 A-101A **EVENT LEVEL FLOOR PLAN**

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

055000.C02	STEEL LADDER
055000.C07	METAL SHIPS LADDER

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME. REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
B. ALL OTHER PRIMARY STRUCTURAL COLUMNS TO BE 2-HR FIRE RATED WITH SPRAY APPLIED FIRE-PROOFING UNLESS NOTED OTHERWISE.

GENERAL FLOOR PLAN NOTES

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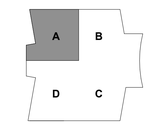

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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SHEET TITLE
EVENT FLOOR PLAN - AREA A

SHEET NUMBER
A-101A

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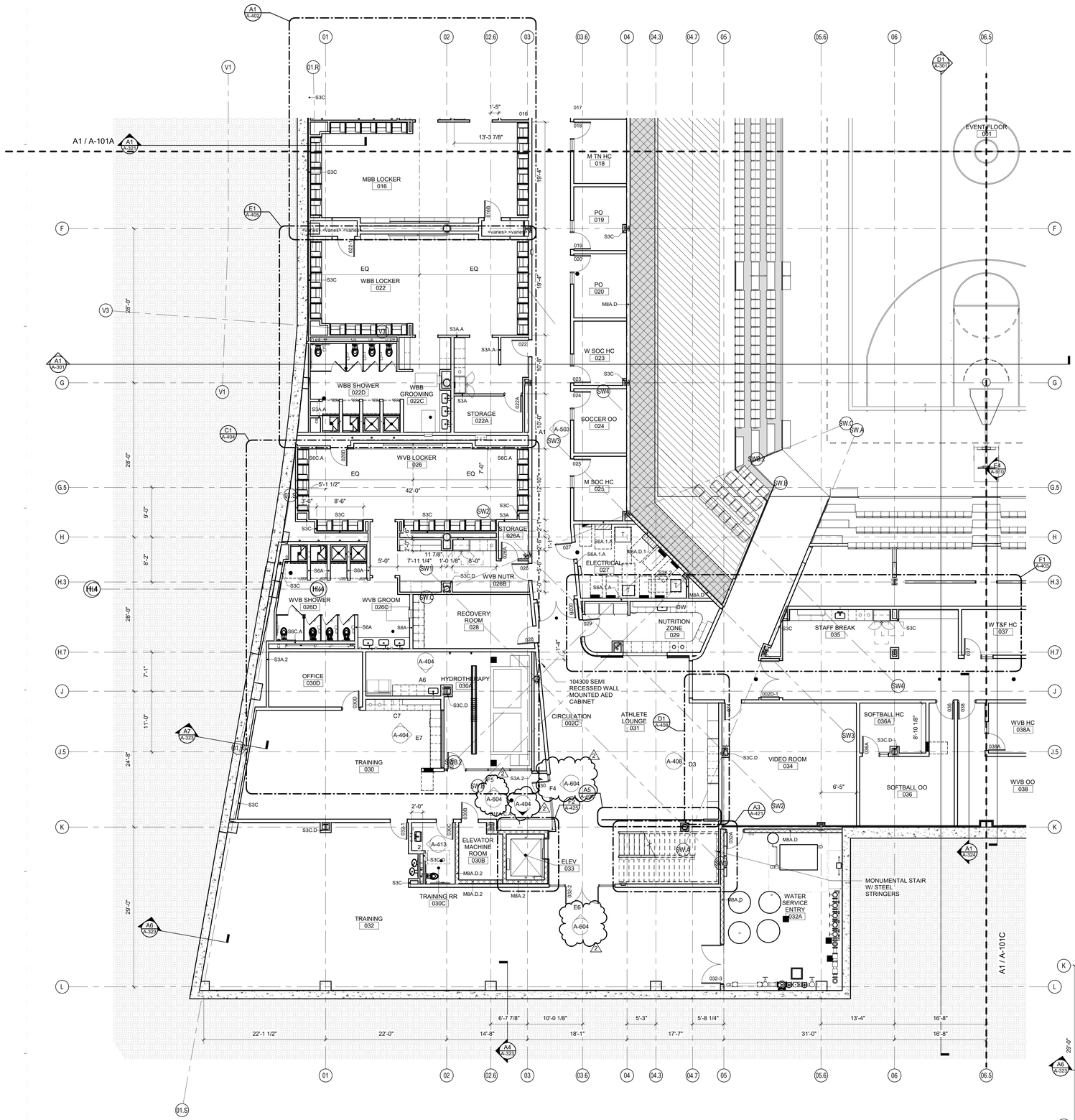
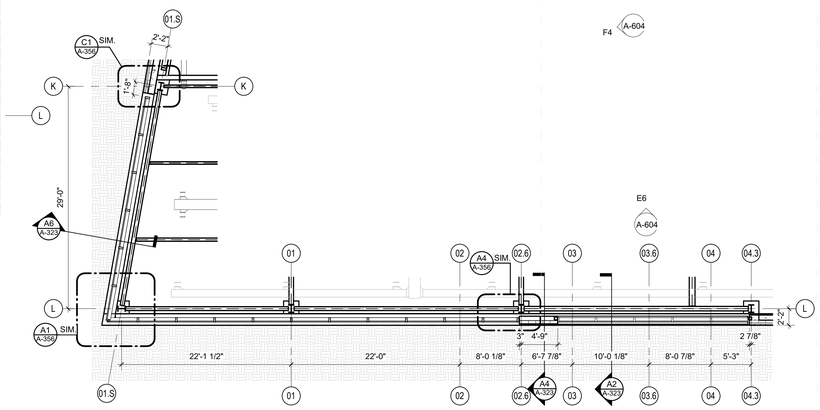


EVENT LEVEL FLOOR PLAN

1/8" = 1'-0"



EVENT LEVEL CLERESTORY PLAN

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
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GENERAL FLOOR PLAN NOTES

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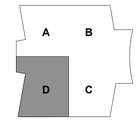

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
EVENT FLOOR PLAN - AREA D

SHEET NUMBER
A-101D

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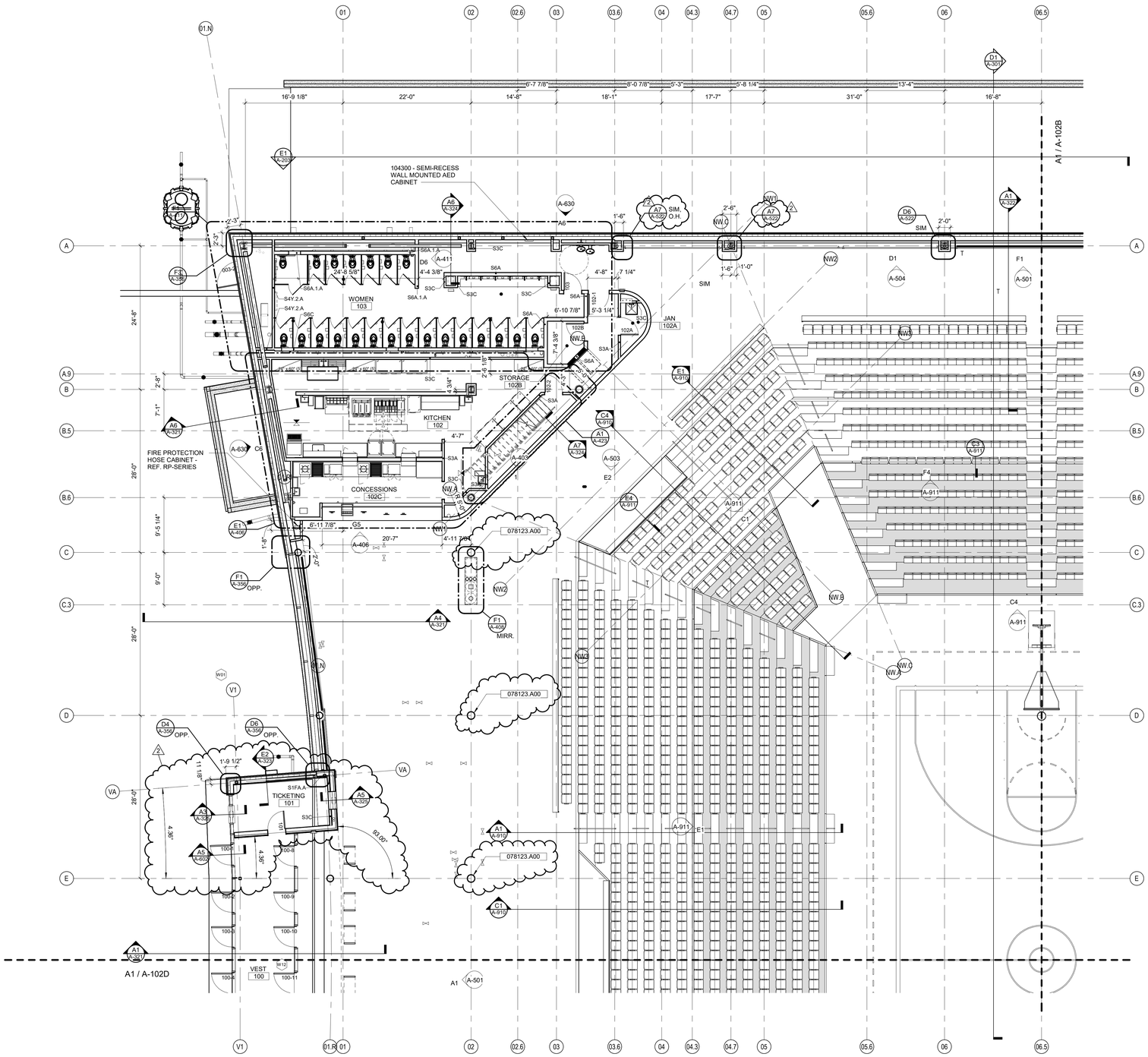

A1 A-102A **CONCOURSE LEVEL FLOOR PLAN - AREA A**

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

078123.A00	INTUMESCENT FIREPROOFING

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
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KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
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PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE FLOOR PLAN - AREA A

SHEET NUMBER
A-102A

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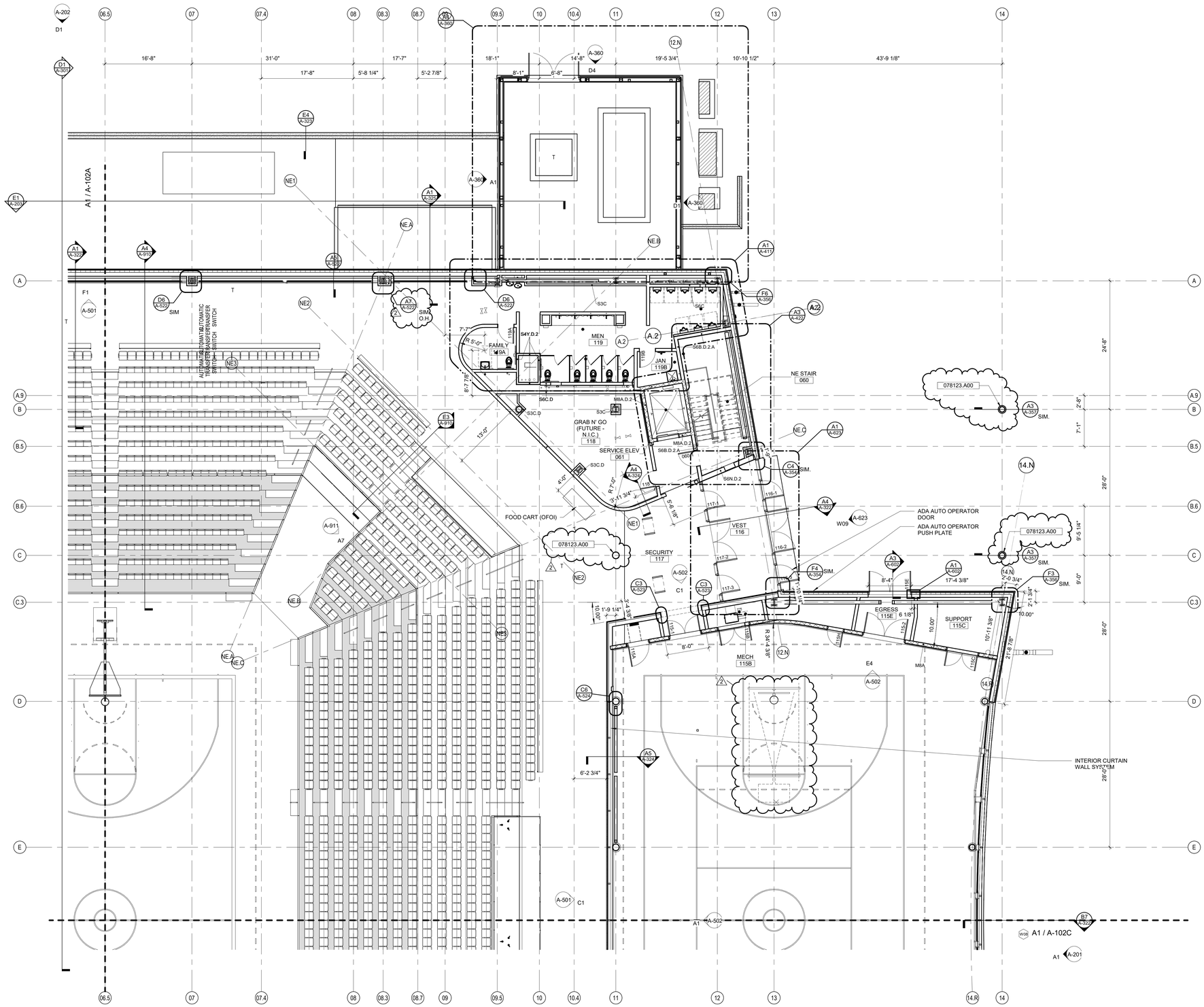

A1 / A-102B

CONCOURSE LEVEL FLOOR PLAN - AREA B

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

078123.A00	INTUMESCENT FIREPROOFING

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
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GENERAL FLOOR PLAN NOTES

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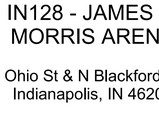

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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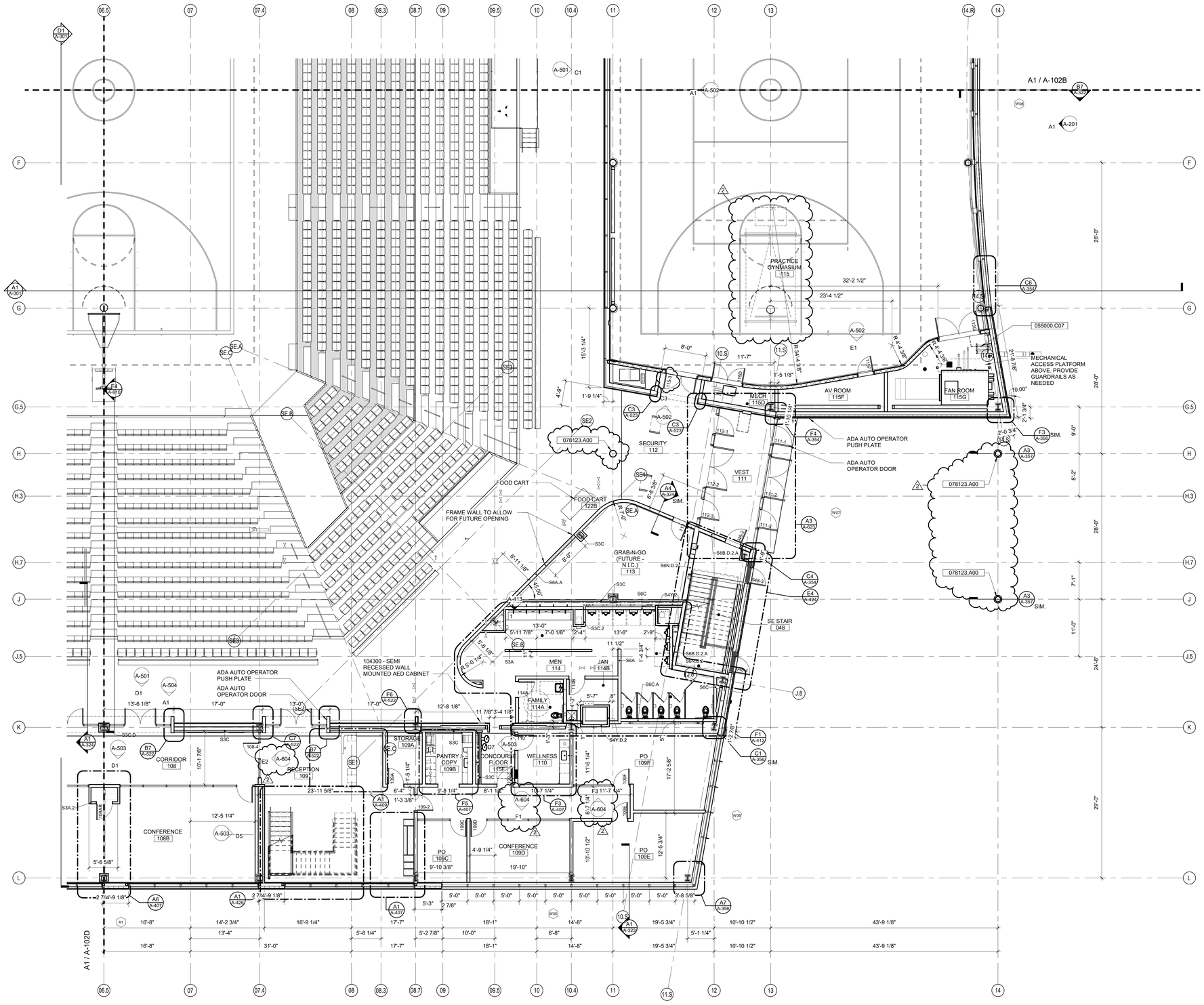
SHEET TITLE
CONCOURSE FLOOR PLAN - AREA B

SHEET NUMBER
A-102B

1/28/2025 9:40:23 PM



KEYNOTES (SPEC BASED)

061600.A00

055000.C07	METAL SHIPS LADDER
078123.A00	INTUMESCENT FIREPROOFING

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
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GENERAL FLOOR PLAN NOTES

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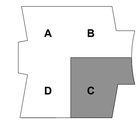
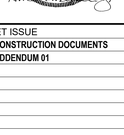


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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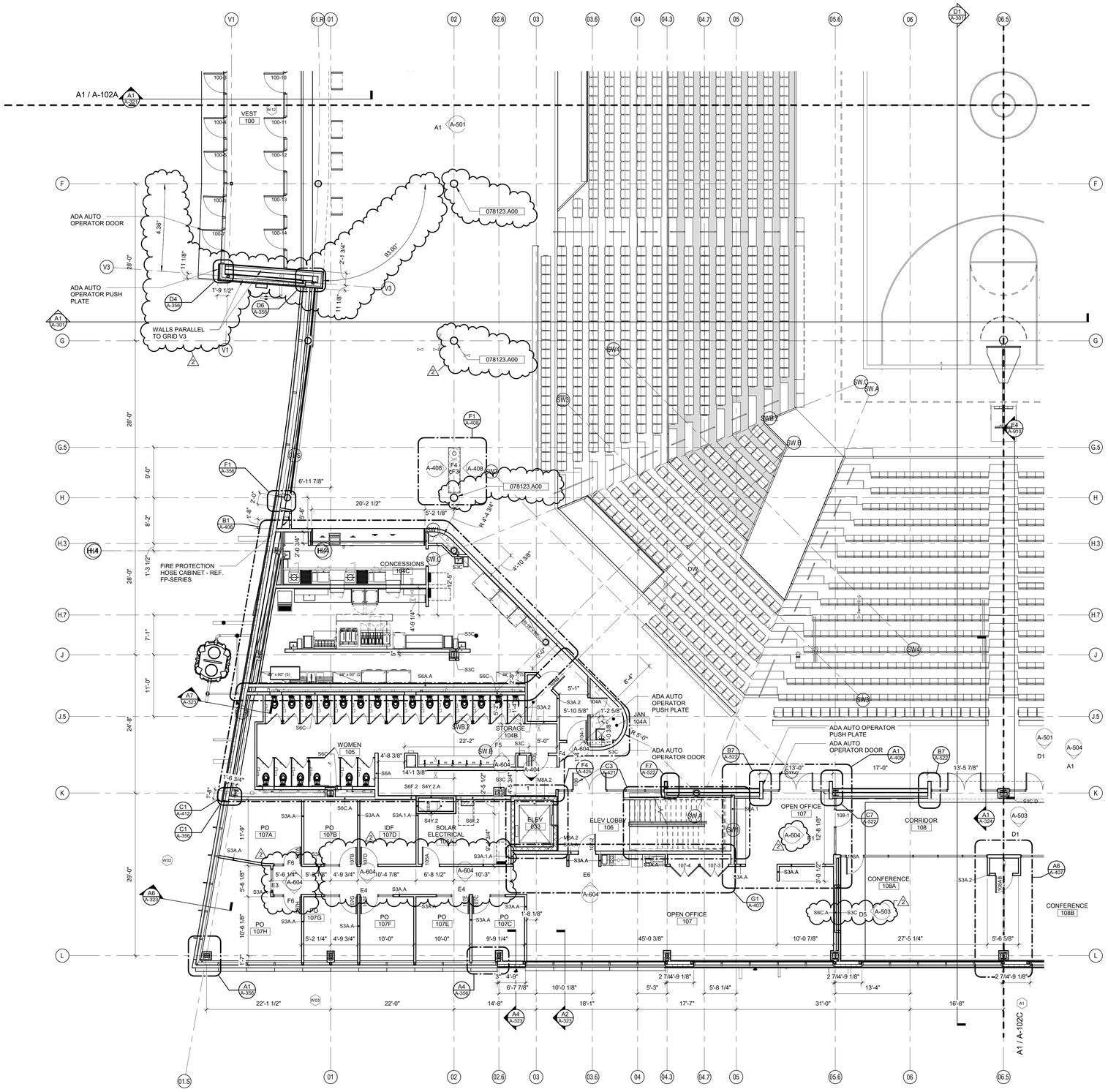
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE FLOOR PLAN - AREA C

SHEET NUMBER
A-102C

A1 / A-102C **CONCOURSE LEVEL FLOOR PLAN - AREA C**
1/8" = 1'-0"

1/24/2025 3:52:31 PM



CONCOURSE LEVEL FLOOR PLAN - AREA D

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

078123.A00	INTUMESCENT FIREPROOFING

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
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954-846-9600

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2502 WEST MECHANIC ST, SUITE C
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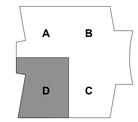

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE FLOOR PLAN - AREA D

SHEET NUMBER
A-102D

1/27/2025 12:27:27 PM



A1 / A-103C **UPPER FLOOR PLAN - AREA C**

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
B. ALL OTHER PRIMARY STRUCTURAL COLUMNS TO BE 2-HR FIRE RATED WITH SPRAY APPLIED FIRE-PROOFING UNLESS NOTED OTHERWISE.

GENERAL FLOOR PLAN NOTES

IN128 - JAMES T. MORRIS ARENA

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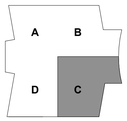

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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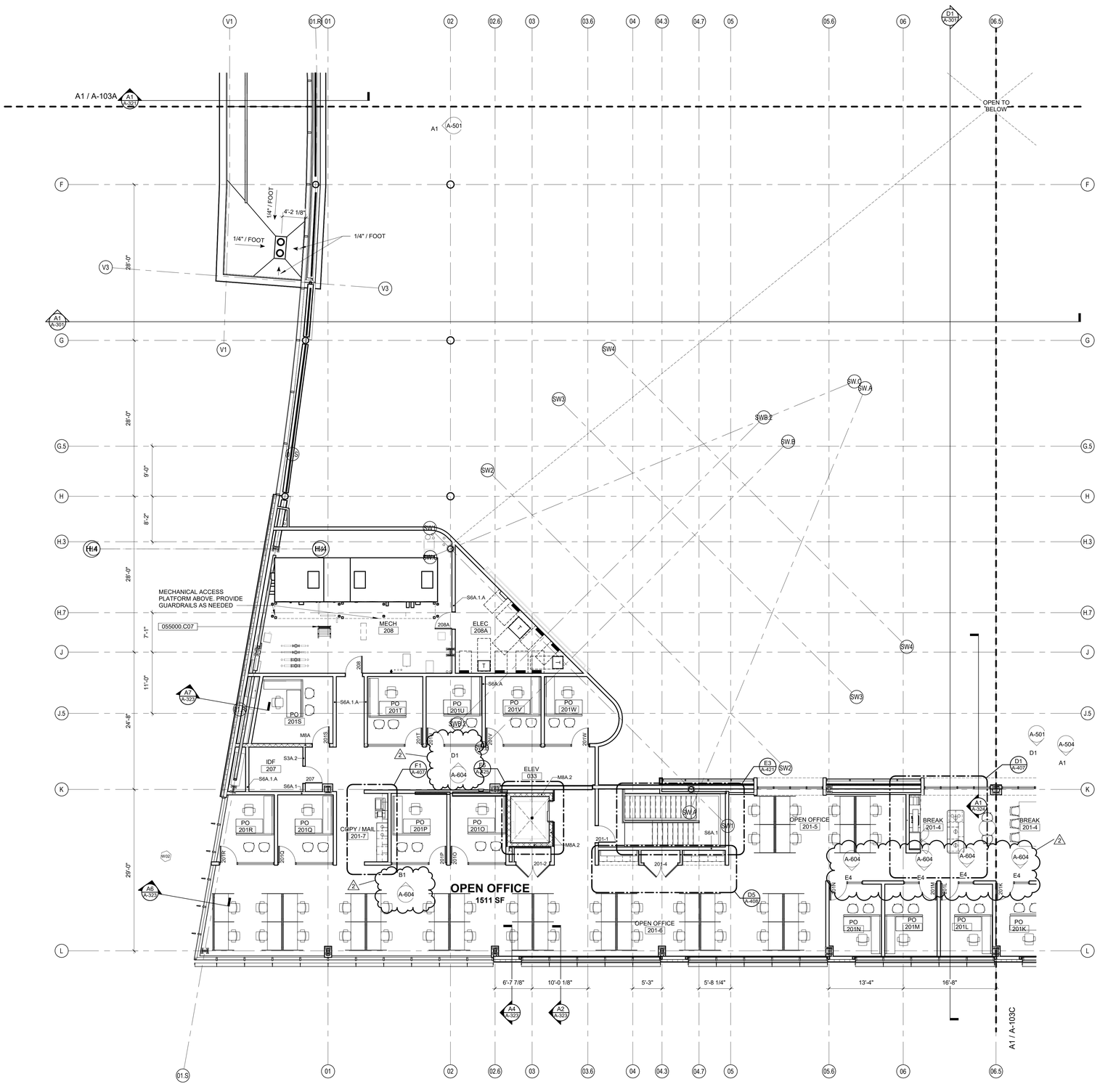
PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR PLAN - AREA C

SHEET NUMBER
A-103C

1/24/2025 3:52:43 PM



A1 A-103D **UPPER FLOOR PLAN - AREA D**

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

055000.C07	METAL SHIPS LADDER

GENERAL FLOOR PLAN NOTES

A. FOR ALL PRIMARY STRUCTURAL COLUMNS IN THE OPEN AREAS OF THE CONCOURSE AND SEATING BOWL VOLUME, REFER TO LIFE SAFETY PLANS FOR FIRE PROTECTION STRATEGY
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KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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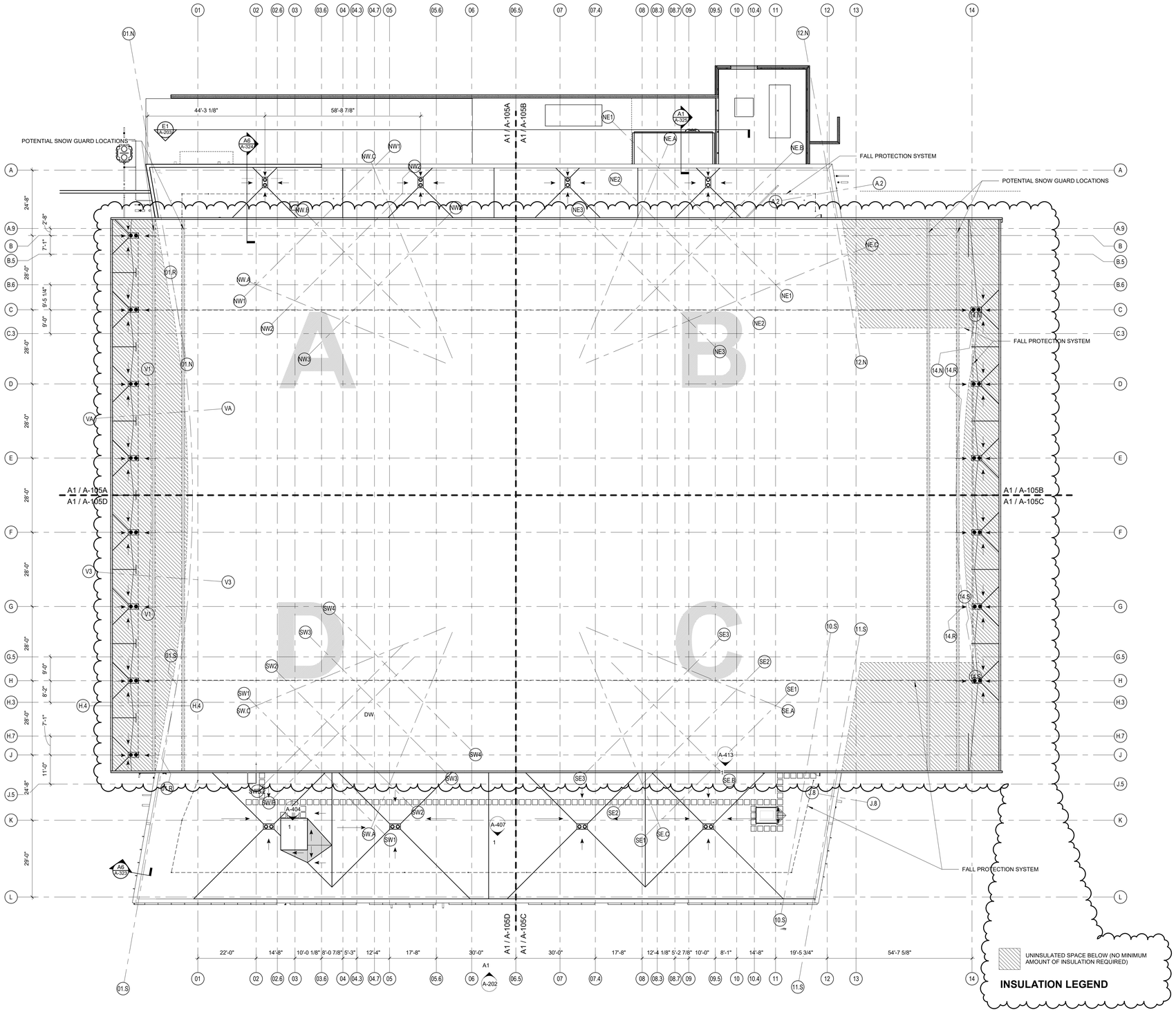
PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR PLAN - AREA D

SHEET NUMBER
A-103D

1/24/2025 3:52:48 PM



ROOF PLAN
1/16" = 1'-0"

GENERAL ROOFING NOTES

A. THESE GENERAL NOTES APPLY TO ROOF DRAWINGS.
B. VERIFY SIZE, LOCATION AND NUMBER OF ROOF PENETRATIONS INCLUDING VENTS, PIPES, CURBS, ROOF DRAINS, CONDUITS, ETC. PROVIDE NEW FLASHING AND SEAL PENETRATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS.
C. COMPLETE WORK ABOVE ROOF, SUCH AS MASONRY, WELDING, MASONRY RESTORATION, ETC., PRIOR TO STARTING ROOFING WORK.
D. VERIFY AND MAINTAIN ROOF SLOPES AND DRAINAGE PATTERNS. TEST FOR AND CORRECT ANY PONDING CONDITIONS.
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G. PAINT EXTERIOR LADDERS, BRACKETS, ETC., UNLESS NOTED OTHERWISE.
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I. REFER TO WALL SECTIONS NOTED ON ROOF PLANS FOR INFORMATION.
J. REFER TO MECHANICAL DRAWINGS TO COORDINATE ROOF CONDUCTOR LOCATIONS.

KEYNOTES (SPEC BASED)

061600 A00

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KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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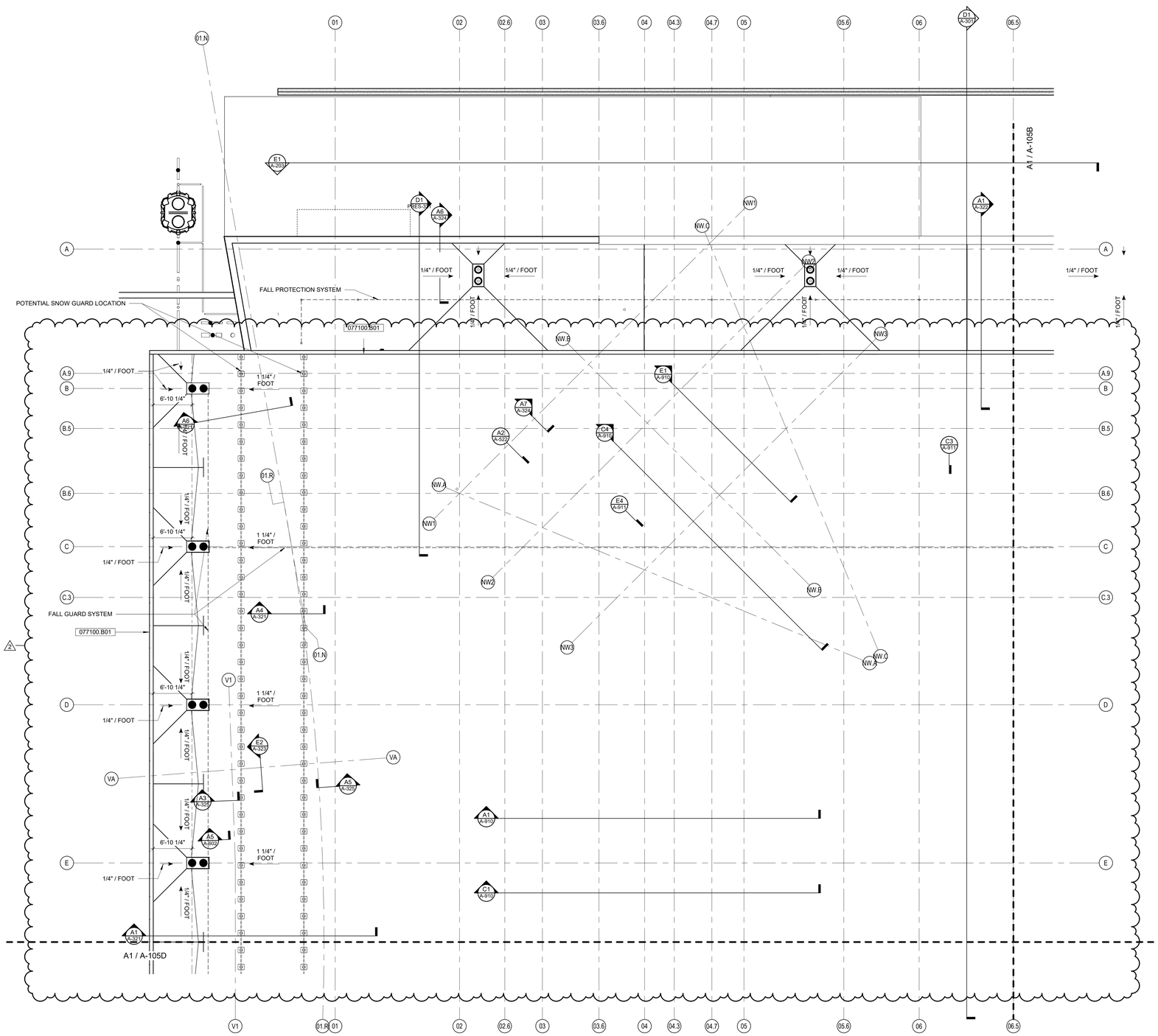
PROJECT NO. 23112.000

SHEET TITLE
ROOF PLAN

SHEET NUMBER
A-105

1/27/2025 10:03:32 AM



A1 A-105A **ROOF PLAN**
1/8" = 1'-0"

GENERAL ROOFING NOTES

A. THESE GENERAL NOTES APPLY TO ROOF DRAWINGS.
B. VERIFY SIZE, LOCATION AND NUMBER OF ROOF PENETRATIONS INCLUDING VENTS, PIPES, CURBS, ROOF DRAINS, CONDUITS, ETC. PROVIDE NEW FLASHING AND SEAL PENETRATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS.
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I. REFER TO WALL SECTIONS NOTED ON ROOF PLANS FOR INFORMATION.
J. REFER TO MECHANICAL DRAWINGS TO COORDINATE ROOF CONDUCTOR LOCATIONS.

KEYNOTES (SPEC BASED)

061600.A00

077100.B01	GRAVEL STOP, MANUFACTURED

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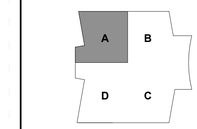

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
ROOF PLAN - AREA A

SHEET NUMBER
A-105A

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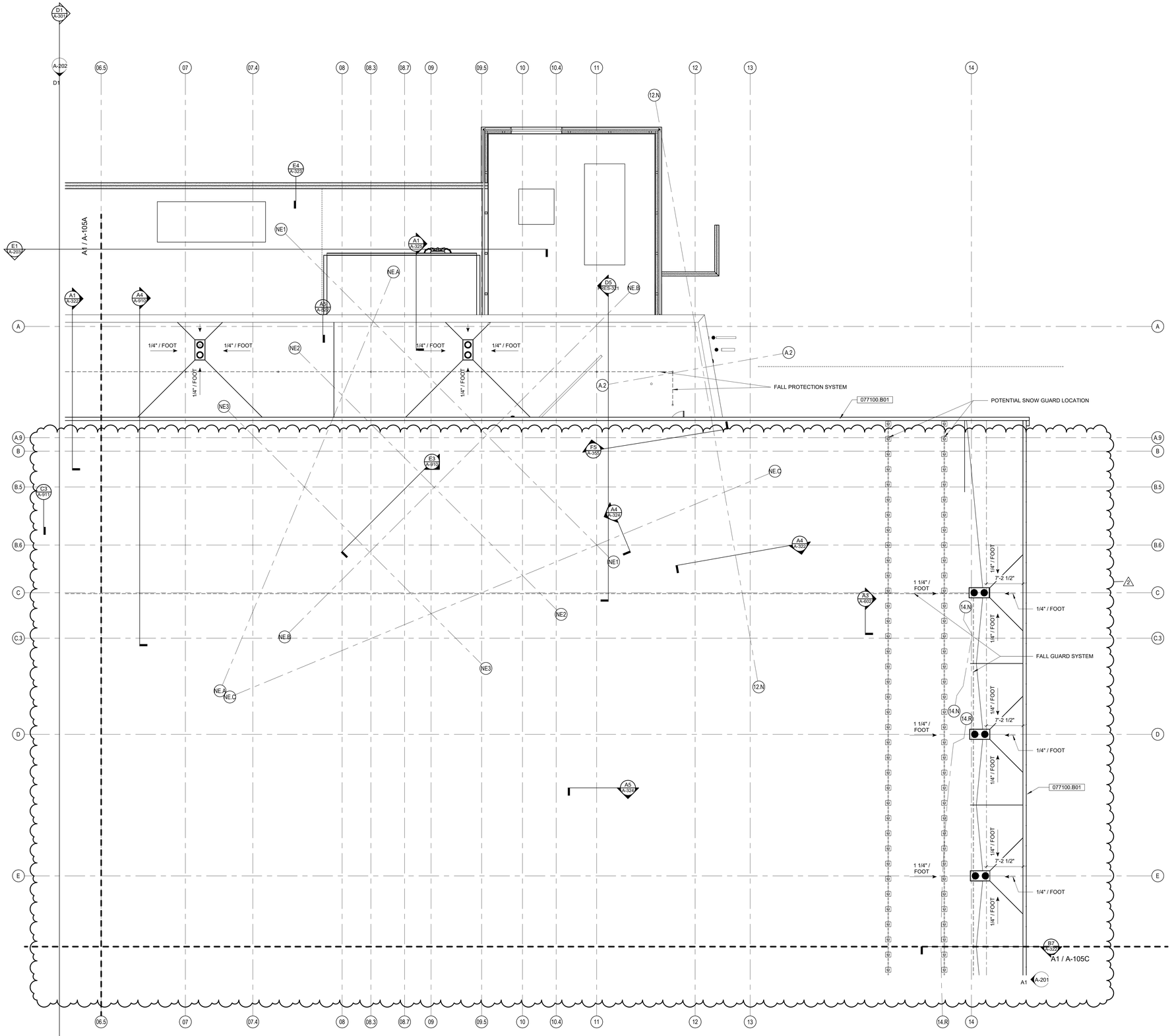

ROOF PLAN

1/8" = 1'-0"

GENERAL ROOFING NOTES

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J. REFER TO MECHANICAL DRAWINGS TO COORDINATE ROOF CONDUCTOR LOCATIONS.

KEYNOTES (SPEC BASED)

061600.A00

077100.B01	GRAVEL STOP, MANUFACTURED

IN128 - JAMES T. MORRIS ARENA

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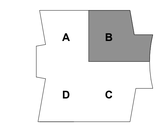

KEY PLAN

SEAL | DATE 01/27/25



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RATIO

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PROJECT NO. 23112.000

SHEET TITLE
ROOF PLAN - AREA B

SHEET NUMBER
A-105B

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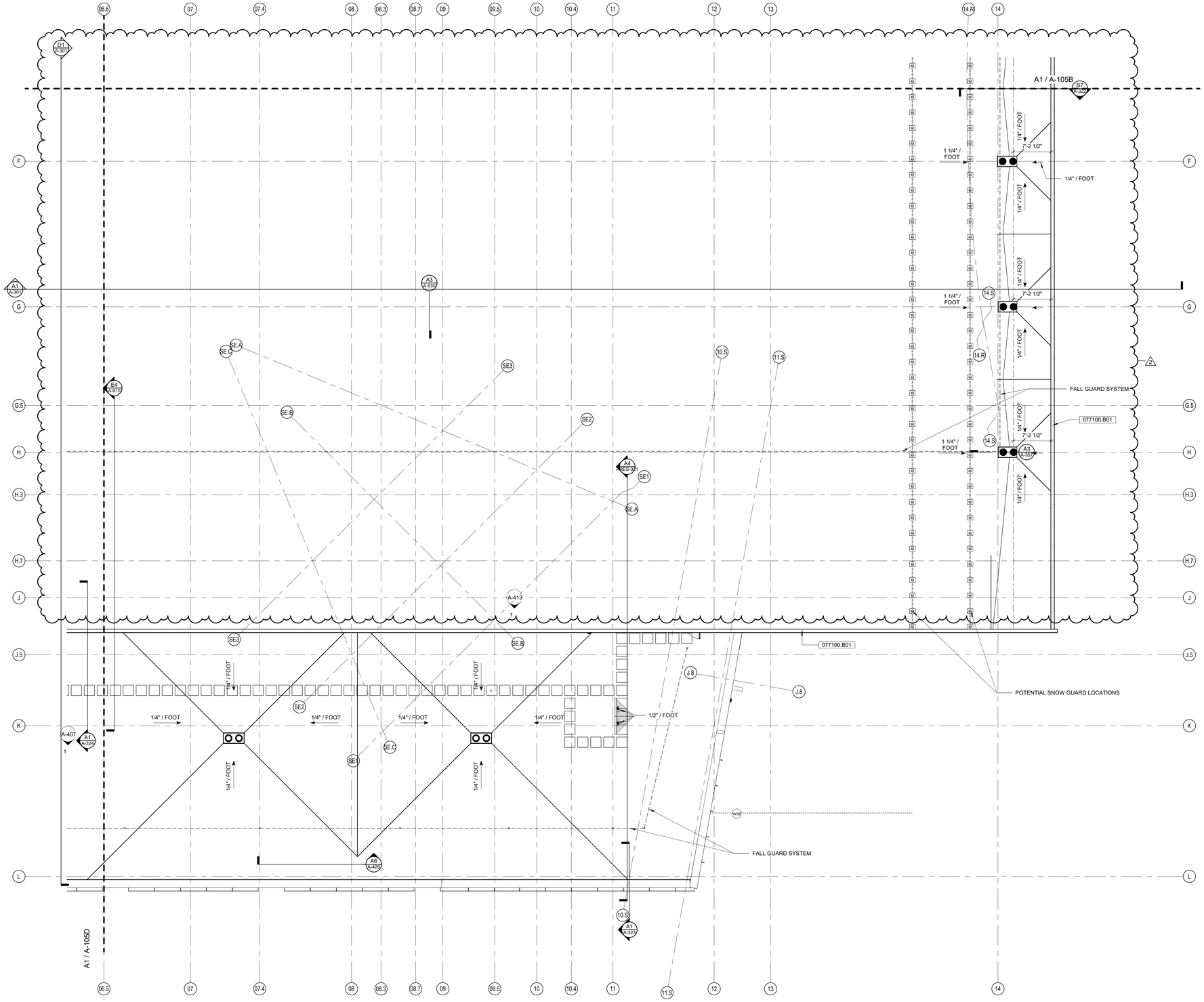

ROOF PLAN

A1 / A-105C — 1/8" = 1'-0"

GENERAL ROOFING NOTES

A. THESE GENERAL NOTES APPLY TO ROOF DRAWINGS.
B. VERIFY SIZE, LOCATION AND NUMBER OF ROOF PENETRATIONS INCLUDING VENTS, PIPES, CURBS, ROOF DRAINS, CONDUITS, ETC. PROVIDE NEW FLASHING AND SEAL PENETRATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS.
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KEYNOTES (SPEC BASED)

061600.A00

077100.B01	GRAVEL STOP, MANUFACTURED

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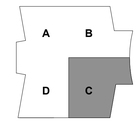
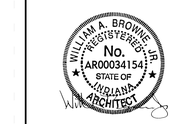


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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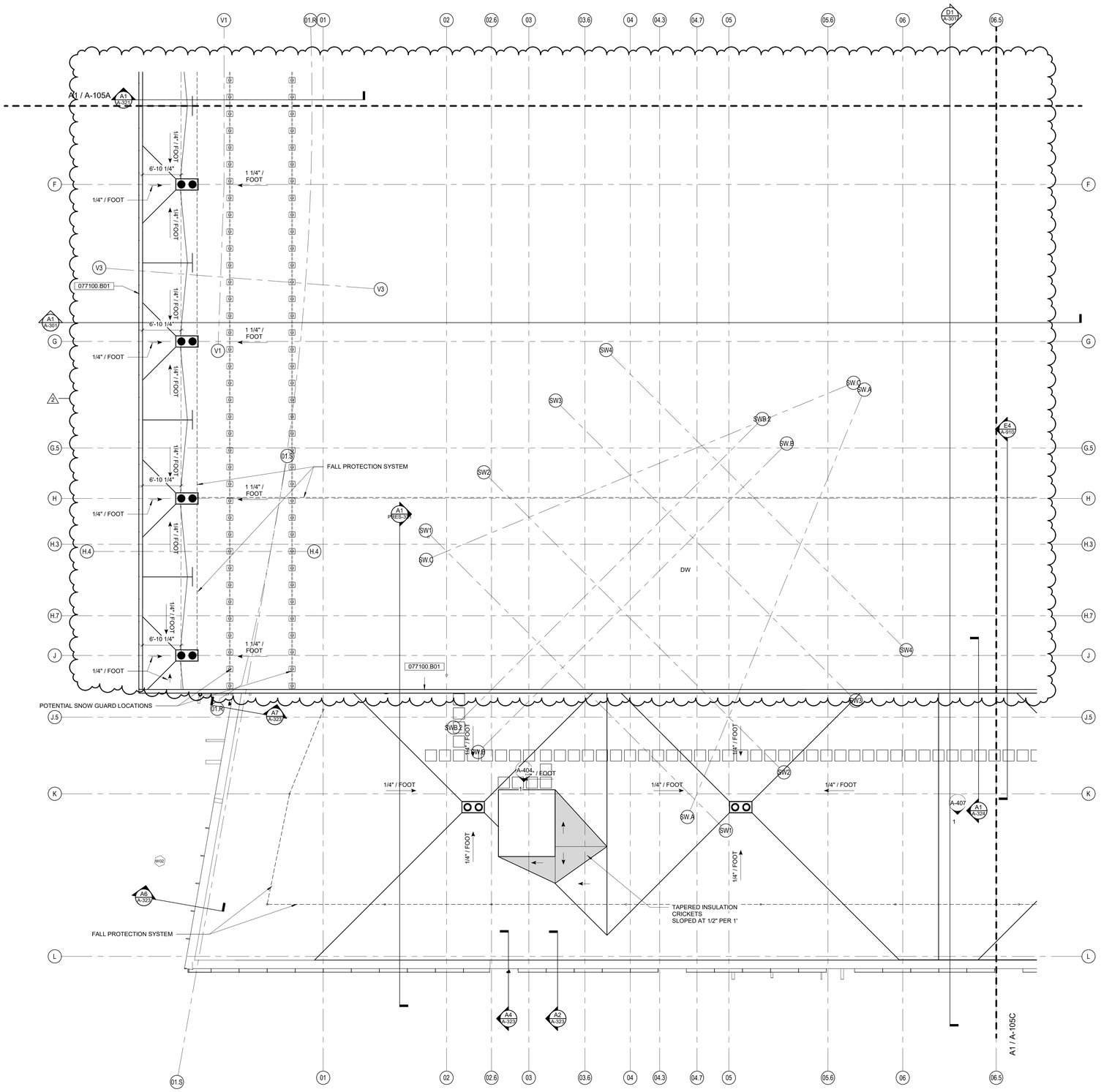
PROJECT NO. 23112.000

SHEET TITLE
ROOF PLAN - AREA C

SHEET NUMBER
A-105C

1/27/2025 10:03:41 AM



A1 A-105D **ROOF PLAN**
1/8" = 1'-0"

GENERAL ROOFING NOTES

A. THESE GENERAL NOTES APPLY TO ROOF DRAWINGS.
B. VERIFY SIZE, LOCATION AND NUMBER OF ROOF PENETRATIONS INCLUDING VENTS, PIPES, CURBS, ROOF DRAINS, CONDUITS, ETC. PROVIDE NEW FLASHING AND SEAL PENETRATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS.
C. COMPLETE WORK ABOVE ROOF, SUCH AS MASONRY, WELDING, MASONRY RESTORATION, ETC., PRIOR TO STARTING ROOFING WORK.
D. VERIFY AND MAINTAIN ROOF SLOPES AND DRAINAGE PATTERNS. TEST FOR AND CORRECT ANY PONDING CONDITIONS.
E. REPAIR AND REPLACE ROOFING SYSTEM OR STRUCTURE DAMAGED BY IMPROPER STORAGE, CONSTRUCTION ACTIVITIES, OR LACK OF ADEQUATE TEMPORARY PROTECTION. THIS ALSO INCLUDES INTERIOR DAMAGE TO FINISHES, EQUIPMENT, FURNISHINGS, ETC., RESULTING FROM LEAKS.
F. NEW BLOCKING SHALL BE PRESERVATIVE-TREATED WOOD.
G. PAINT EXTERIOR LADDERS, BRACKETS, ETC., UNLESS NOTED OTHERWISE.
H. CAP FASTENERS THAT PENETRATE ROOF DECK IN AREAS NOT CONCEALED BY CEILINGS WITH WIRE NUTS OR OTHER MEANS ACCEPTABLE TO ARCHITECT UNLESS OTHERWISE INDICATED. AREAS SUCH AS JANITOR CLOSETS, STORAGE ROOMS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, ETC., ARE EXEMPT FROM THIS REQUIREMENT UNLESS OTHERWISE INDICATED.
I. REFER TO WALL SECTIONS NOTED ON ROOF PLANS FOR INFORMATION.
J. REFER TO MECHANICAL DRAWINGS TO COORDINATE ROOF CONDUCTOR LOCATIONS.

KEYNOTES (SPEC BASED)

061600.A00

077100.B01	GRAVEL STOP, MANUFACTURED

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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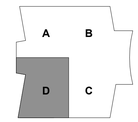

KEY PLAN

SEAL | DATE 01/27/25



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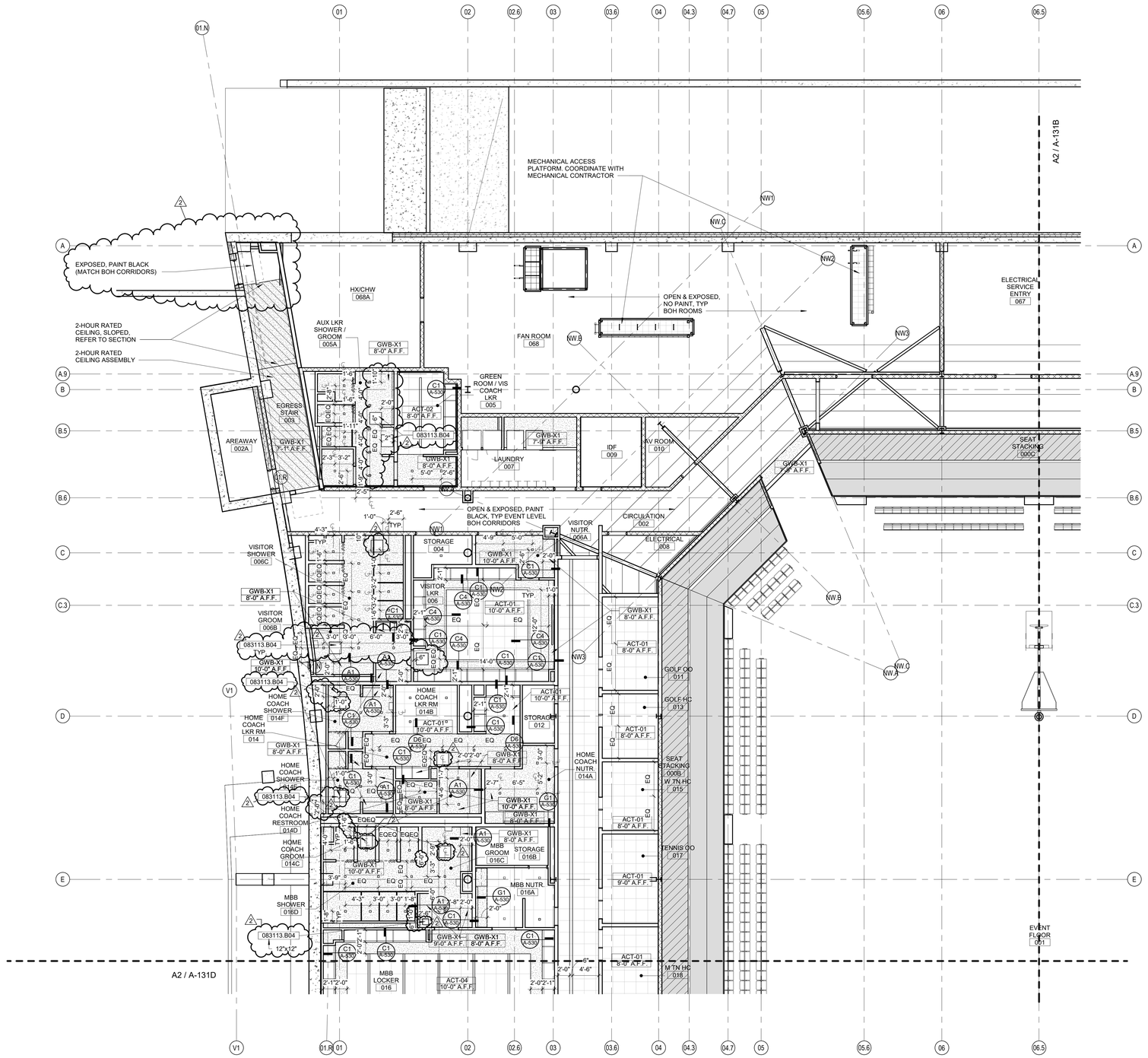
PROJECT NO. 23112.000

SHEET TITLE
ROOF PLAN - AREA D

SHEET NUMBER
A-105D

1/27/2025 10:03:44 AM



A2 / A-131A **EVENT LEVEL REFLECTED CEILING PLAN - AREA A**

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
B. INSTALL NEW CEILINGS AT ▶ +9'-0" ◀ A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ▶ ACT-01 ◀ UNLESS NOTED OTHERWISE.
C. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.
D. LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN ▶ NOT LESS THAN 1/2 TILE WIDTH. ◀ UNLESS OTHERWISE INDICATED.
E. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
F. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES ▶ PT-01 ◀ UNLESS OTHERWISE INDICATED.
G. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
H. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK. REFER TO A-524 FOR ACCESS PANEL DETAILS. PAINT TO MATCH COLOR OF CEILING, TYP. CEILING ACCESS PANELS TO BE FLUSH W/ CONCEALED MUD-IN FLANGE TRIM 24"X24" U.N.O.
I. REFER TO ▶ SERIES A-001 ◀ GENERAL INFORMATION DRAWINGS FOR MATERIAL SYMBOL KEY.
J. REFER TO ▶ SERIES A-150 ◀ FINISH PLANS FOR ADDITIONAL CEILING FINISH INFORMATION.
K. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.
L. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.
M. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE BEEN INTENTIONALLY OMITTED FROM REFLECTED CEILING PLANS FOR CLARITY.
N. INSTALLATION OF CEILING SYSTEMS SHALL NOT BEGIN PRIOR TO SUBMITTAL AND REVIEW OF CEILING COORDINATION DRAWINGS SHOWING LAYOUT OF CEILING GRIDS OR CONTROL JOINTS AND ITEMS TO BE INSTALLED IN OR ON CEILINGS SUCH AS SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHT FIXTURES, FIRE DETECTION AND ALARM DEVICES, ACCESS PANELS, ETC.
O. PROVIDE ▶ 4" AXIOM EDGE TRIM ◀ ON ALL EXPOSED EDGES OF CEILINGS UNLESS NOTED OTHERWISE.
P. IN AREAS WHERE STRUCTURE IS EXPOSED, CONTRACTOR TO PROVIDE FANAL LAYOUTS OF ALL DUCTWORK, PIPING, CONDUIT, LIGHTING, ETC. FOR FINAL APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
Q. PAINT ALL ELEMENTS IN OPEN & EXPOSED CEILINGS INCLUDING BUT NOT LIMITED TO DUCTWORK, STRUCTURE, CABLES, METAL STUDS, PIPING, CEILING HANGERS, AND MECHANICAL DEVICES PT-05 U.N.O.

RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F. — *CEILING TYPE* / *CEILING HEIGHT (ABOVE FINISH FLOOR)*

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE

KEYNOTES (ACTION/GENERAL)

00-A1

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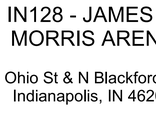

KEY PLAN

SEAL | DATE 01/27/25



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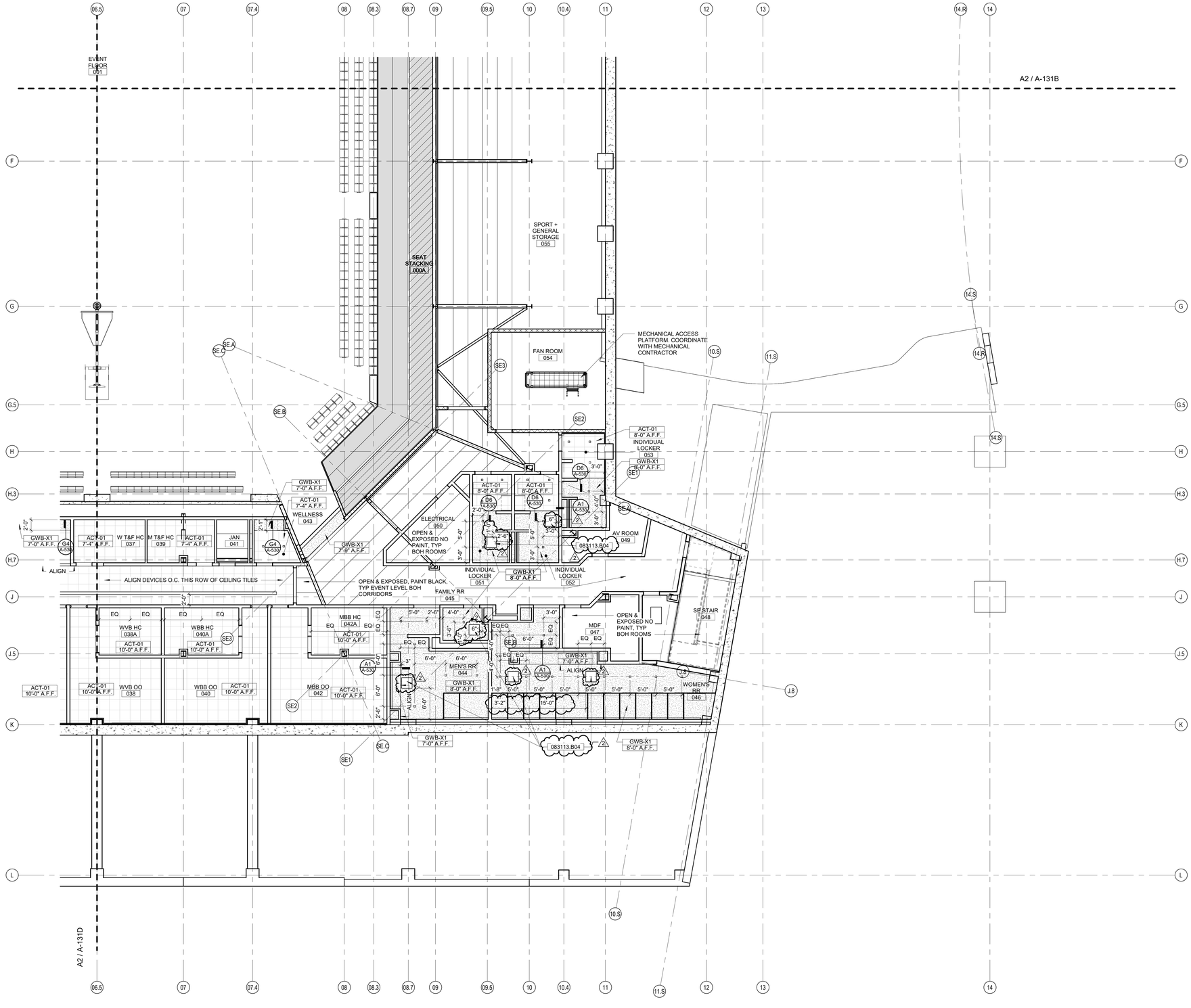
PROJECT NO. 23112.000

SHEET TITLE
EVENT FLOOR REFLECTED CEILING PLAN - AREA A

SHEET NUMBER
A-131A

1/26/2025 10:23:24 PM



EVENT LEVEL REFLECTED CEILING PLAN - AREA C

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
B. INSTALL NEW CEILINGS AT ▶ +9'-0" ◀ A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ▶ ACT-01 ◀ UNLESS NOTED OTHERWISE.
C. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.
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F. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES ▶ PT-01 ◀ UNLESS OTHERWISE INDICATED.
G. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
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RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F.
CEILING TYPE
CEILING HEIGHT (ABOVE FINISH FLOOR)

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE

KEYNOTES (ACTION/GENERAL)

00-A1

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
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RATIO

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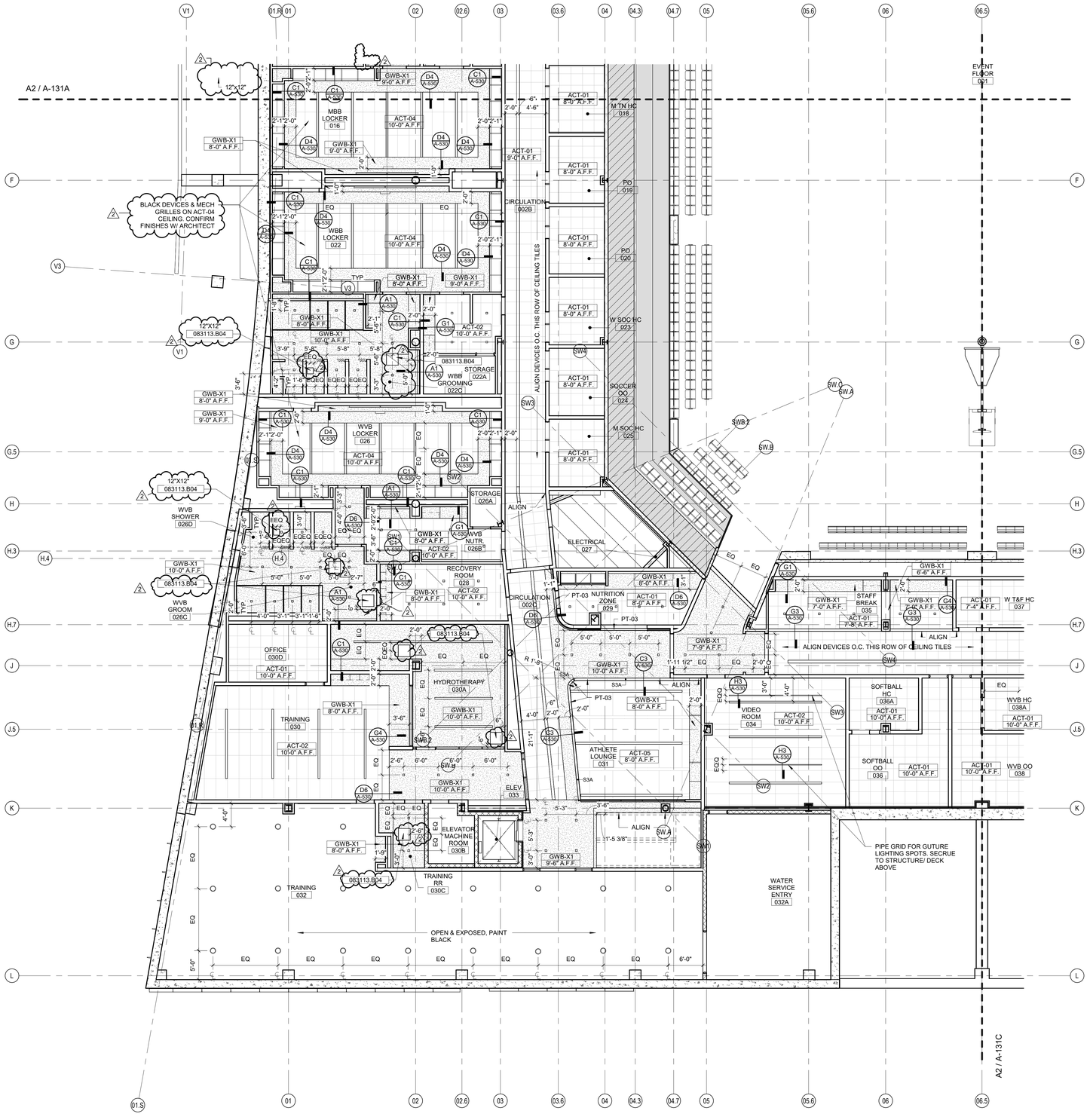
PROJECT NO. 23112.000

SHEET TITLE
EVENT FLOOR REFLECTED CEILING PLAN - AREA C

SHEET NUMBER
A-131C

1/26/2025 10:23:58 PM



EVENT LEVEL REFLECTED CEILING PLAN - AREA D

1/8" = 1'-0"

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RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F.
CEILING TYPE
CEILING HEIGHT (ABOVE FINISH FLOOR)

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE

KEYNOTES (ACTION/GENERAL)

00-A1

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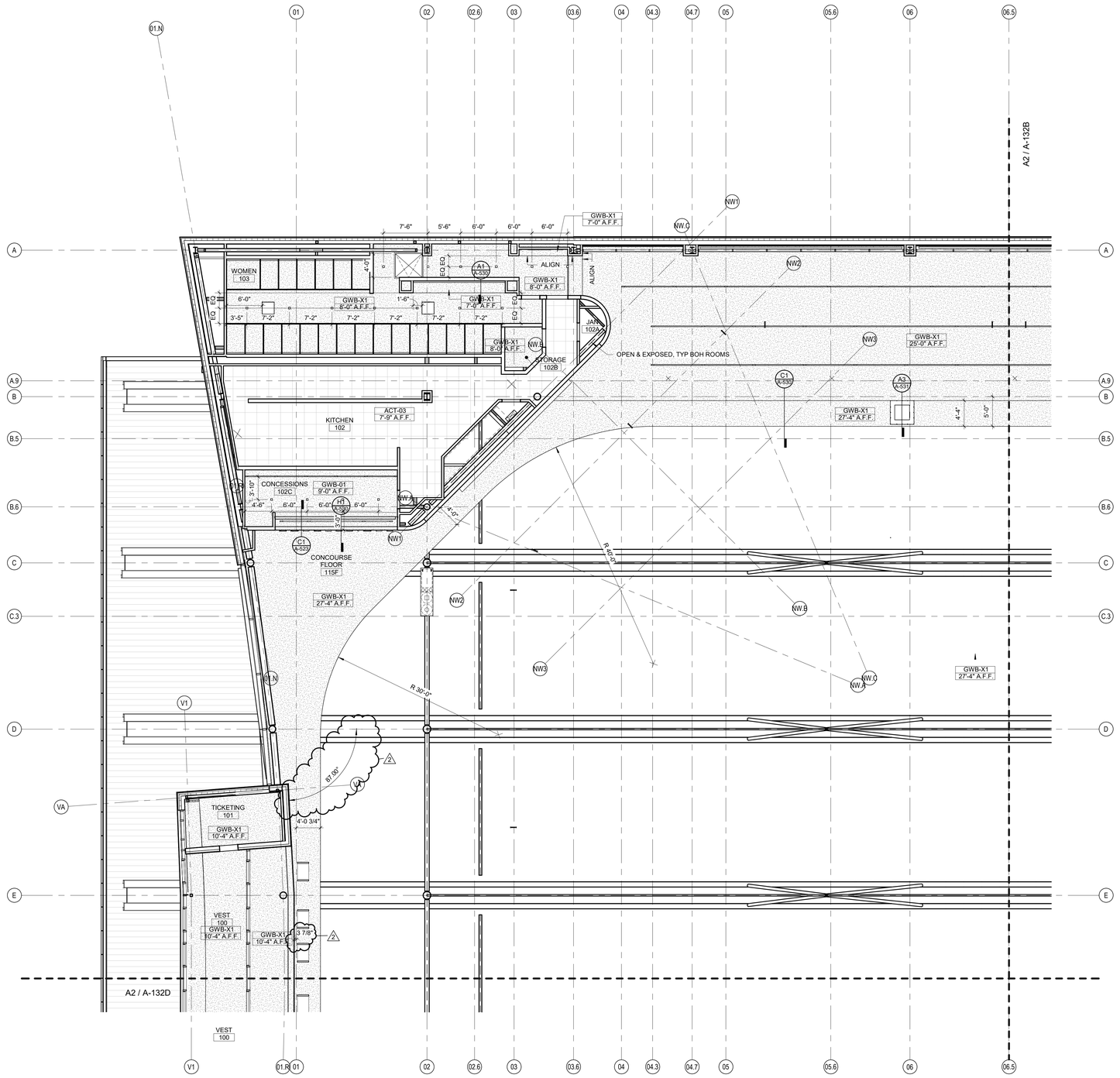
SHEET TITLE
EVENT FLOOR REFLECTED CEILING PLAN - AREA D

SHEET NUMBER
A-131D

1/26/2025 10:24:15 PM



A2 / A-132A **CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA A**

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
B. INSTALL NEW CEILINGS AT ▶ +9'-0" ◀ A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ▶ ACT-01 ◀ UNLESS NOTED OTHERWISE.
C. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.
D. LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN ▶ NOT LESS THAN 1/2 TILE WIDTH. ◀ UNLESS OTHERWISE INDICATED.
E. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
F. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES ▶ PT-01 ◀ UNLESS OTHERWISE INDICATED.
G. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
H. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK. REFER TO A-524 FOR ACCESS PANEL DETAILS. PAINT TO MATCH COLOR OF CEILING, TYP. CEILING ACCESS PANELS TO BE FLUSH W/ CONCEALED MUD-IN FLANGE TRIM 24"X24" U.N.O.
I. REFER TO ▶ SERIES A-001 ◀ GENERAL INFORMATION DRAWINGS FOR MATERIAL SYMBOL KEY.
J. REFER TO ▶ SERIES A-150 ◀ FINISH PLANS FOR ADDITIONAL CEILING FINISH INFORMATION.
K. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.
L. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.
M. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE BEEN INTENTIONALLY OMITTED FROM REFLECTED CEILING PLANS FOR CLARITY.
N. INSTALLATION OF CEILING SYSTEMS SHALL NOT BEGIN PRIOR TO SUBMITTAL AND REVIEW OF CEILING COORDINATION DRAWINGS SHOWING LAYOUT OF CEILING GRIDS OR CONTROL JOINTS AND ITEMS TO BE INSTALLED IN OR ON CEILINGS SUCH AS SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHT FIXTURES, FIRE DETECTION AND ALARM DEVICES, ACCESS PANELS, ETC.
O. PROVIDE ▶ 4" AXIOM EDGE TRIM ◀ ON ALL EXPOSED EDGES OF CEILINGS UNLESS NOTED OTHERWISE.
P. IN AREAS WHERE STRUCTURE IS EXPOSED, CONTRACTOR TO PROVIDE FANAL LAYOUTS OF ALL DUCTWORK, PIPING, CONDUIT, LIGHTING, ETC. FOR FINAL APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
Q. PAINT ALL ELEMENTS IN OPEN & EXPOSED CEILINGS INCLUDING BUT NOT LIMITED TO DUCTWORK, STRUCTURE, CABLES, METAL STUDS, PIPING, CEILING HANGERS, AND MECHANICAL DEVICES PT-05 U.N.O.

RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F. — *CEILING TYPE* / *CEILING HEIGHT (ABOVE FINISH FLOOR)*

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE REFLECTED CEILING PLAN - AREA A

SHEET NUMBER
A-132A

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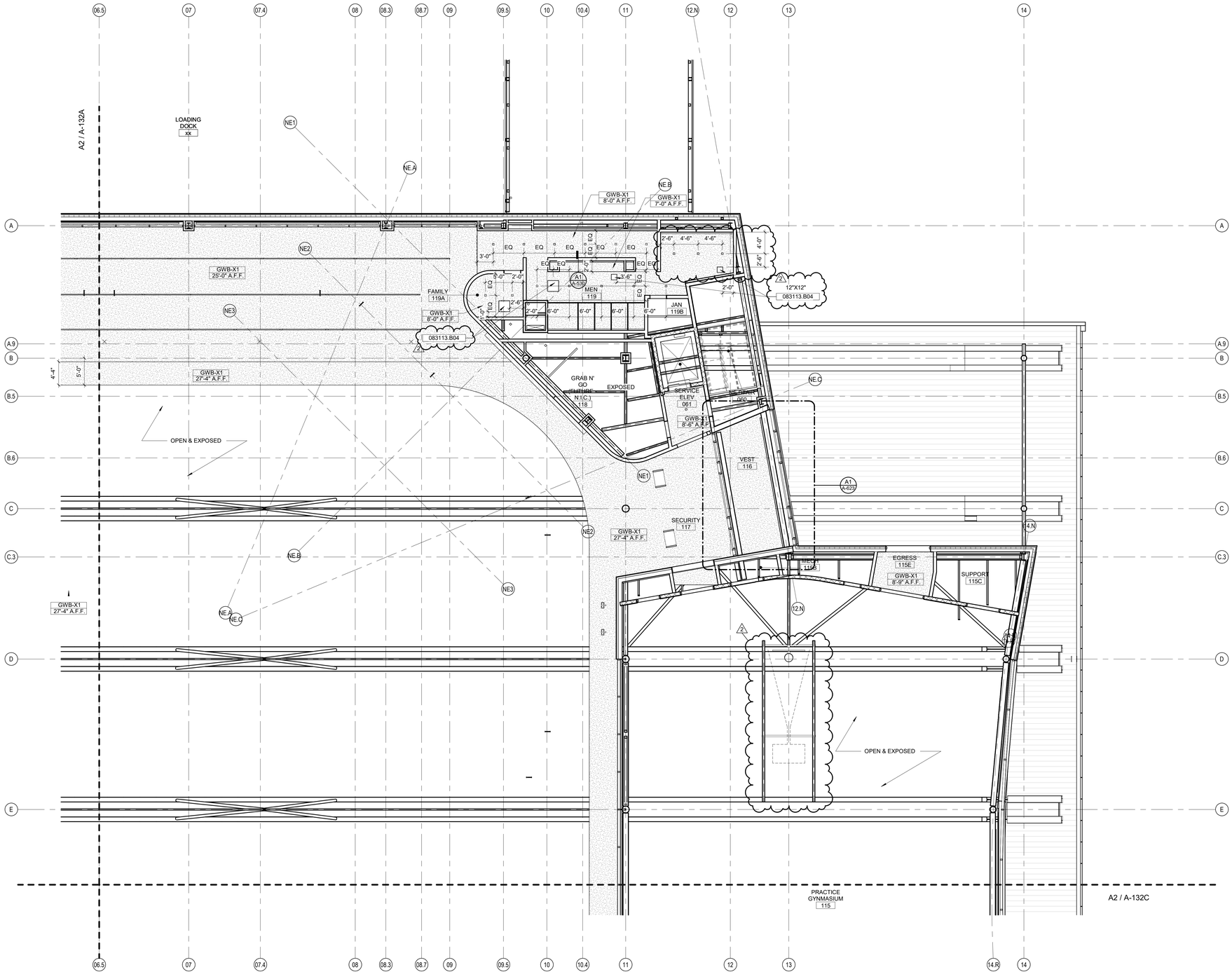

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RCP LEGEND

CEILING TAG
XXX-01 / 10'-10" A.F.F. — *CEILING TYPE* / *CEILING HEIGHT (ABOVE FINISH FLOOR)*

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE

KEYNOTES (ACTION/GENERAL)

00-A1

A2 / A-132B
1/8" = 1'-0"

CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA B

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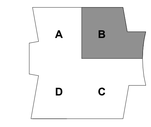

KEY PLAN

SEAL | DATE 01/27/25



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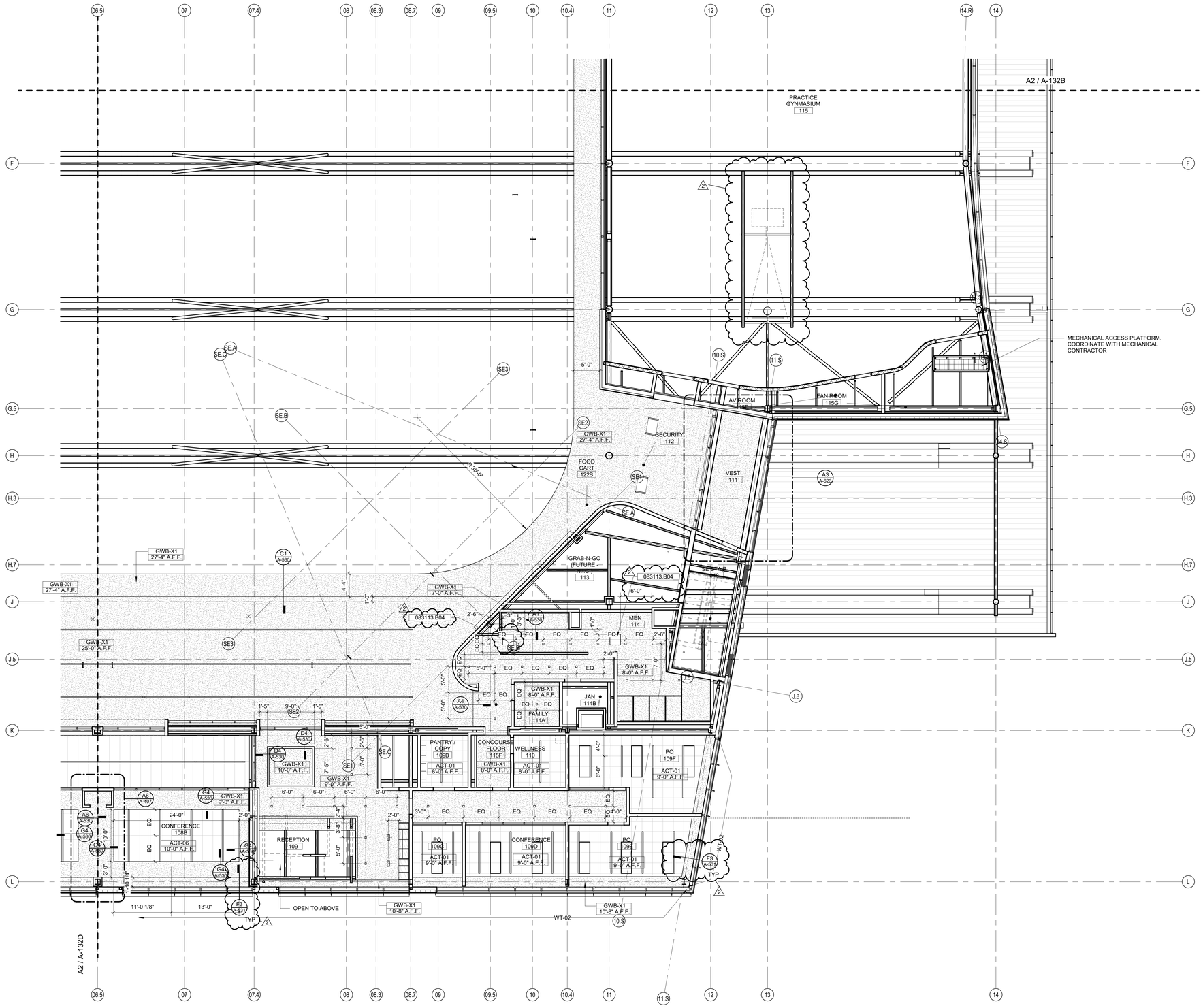
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE REFLECTED CEILING PLAN - AREA B

SHEET NUMBER
A-132B



A2 / A-132C **CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA C**
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
B. INSTALL NEW CEILINGS AT ▶ +9'-0" ◀ A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ▶ ACT-01 ◀ UNLESS NOTED OTHERWISE.
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RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F. — *CEILING TYPE* / *CEILING HEIGHT (ABOVE FINISH FLOOR)*
SPOT ELEVATION MARKER
GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)
ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE

KEYNOTES (ACTION/GENERAL)

00-A1

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IU Project NO. 20240127

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SEAL | DATE 01/27/25

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SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE REFLECTED CEILING PLAN - AREA C

SHEET NUMBER
A-132C

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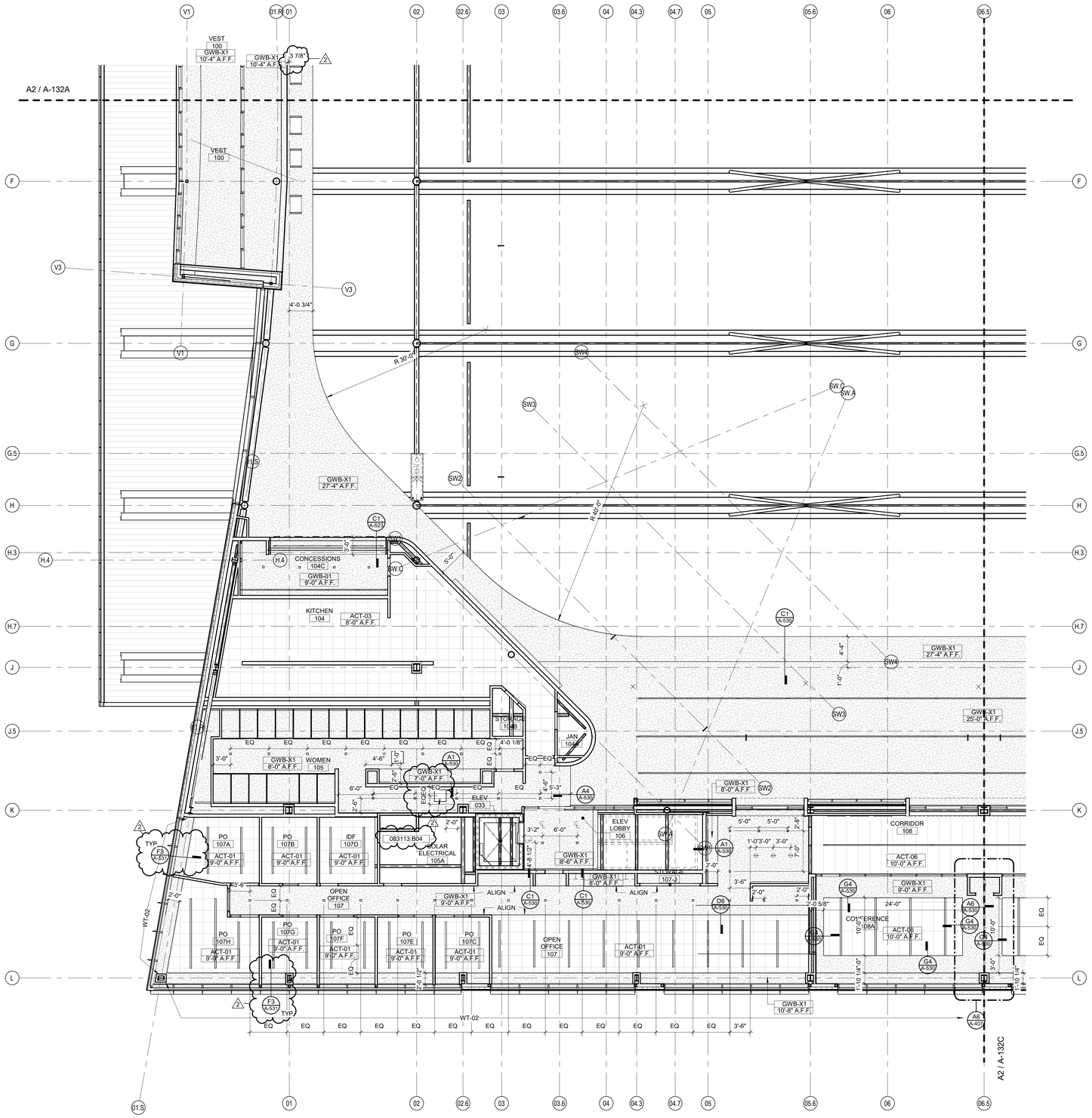

CONCOURSE LEVEL REFLECTED CEILING PLAN - AREA D

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

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RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F.
CEILING TYPE
CEILING HEIGHT (ABOVE FINISH FLOOR)

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE

KEYNOTES (ACTION/GENERAL)

00-A1

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2	ADDENDUM 01	01/27/25

RATIO

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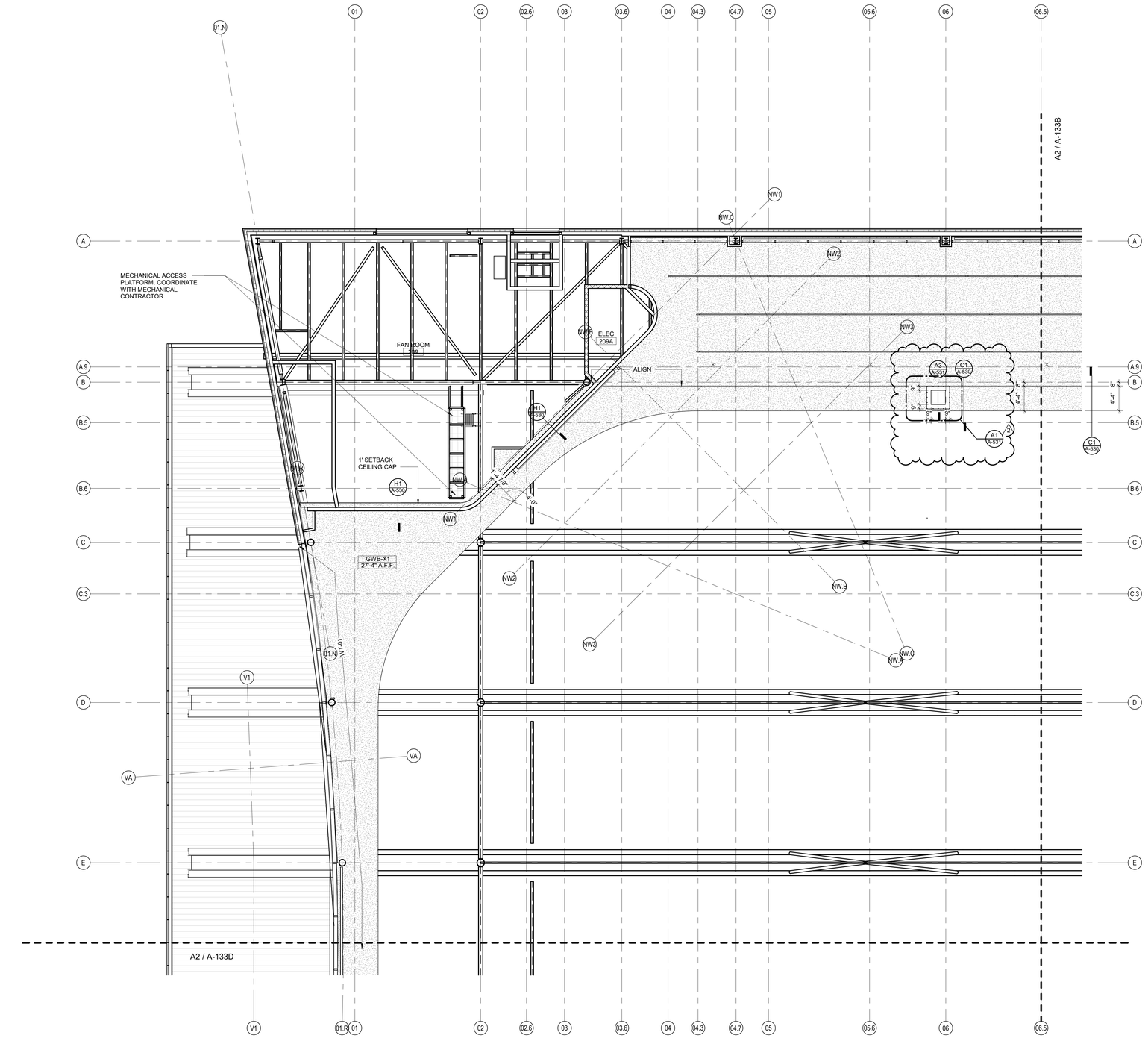
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE REFLECTED CEILING PLAN - AREA D

SHEET NUMBER
A-132D

1/28/2025 10:25:25 PM



A2 / A-133A **UPPER FLOOR REFLECTED CEILING PLAN - AREA A**

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
B. INSTALL NEW CEILINGS AT ▶ +9'-0" ◀ A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ▶ ACT-01 ◀ UNLESS NOTED OTHERWISE.
C. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.
D. LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN ▶ NOT LESS THAN 1/2 TILE WIDTH. ◀ UNLESS OTHERWISE INDICATED.
E. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
F. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES ▶ PT-01 ◀ UNLESS OTHERWISE INDICATED.
G. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
H. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK. REFER TO A-524 FOR ACCESS PANEL DETAILS. PAINT TO MATCH COLOR OF CEILING, TYP. CEILING ACCESS PANELS TO BE FLUSH W/ CONCEALED MUD-IN FLANGE TRIM 24"X24" U.N.O.
I. REFER TO ▶ SERIES A-001 ◀ GENERAL INFORMATION DRAWINGS FOR MATERIAL SYMBOL KEY.
J. REFER TO ▶ SERIES A-150 ◀ FINISH PLANS FOR ADDITIONAL CEILING FINISH INFORMATION.
K. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.
L. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.
M. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE BEEN INTENTIONALLY OMITTED FROM REFLECTED CEILING PLANS FOR CLARITY.
N. INSTALLATION OF CEILING SYSTEMS SHALL NOT BEGIN PRIOR TO SUBMITTAL AND REVIEW OF CEILING COORDINATION DRAWINGS SHOWING LAYOUT OF CEILING GRIDS OR CONTROL JOINTS AND ITEMS TO BE INSTALLED IN OR ON CEILINGS SUCH AS SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHT FIXTURES, FIRE DETECTION AND ALARM DEVICES, ACCESS PANELS, ETC.
O. PROVIDE ▶ 4" AXIOM EDGE TRIM ◀ ON ALL EXPOSED EDGES OF CEILINGS UNLESS NOTED OTHERWISE.
P. IN AREAS WHERE STRUCTURE IS EXPOSED, CONTRACTOR TO PROVIDE FANAL LAYOUTS OF ALL DUCTWORK, PIPING, CONDUIT, LIGHTING, ETC. FOR FINAL APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
Q. PAINT ALL ELEMENTS IN OPEN & EXPOSED CEILINGS INCLUDING BUT NOT LIMITED TO DUCTWORK, STRUCTURE, CABLES, METAL STUDS, PIPING, CEILING HANGERS, AND MECHANICAL DEVICES PT-05 U.N.O.

RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F. — *CEILING TYPE*; *CEILING HEIGHT (ABOVE FINISH FLOOR)*

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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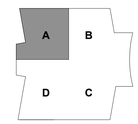

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR REFLECTED CEILING PLAN - AREA A

SHEET NUMBER
A-133A

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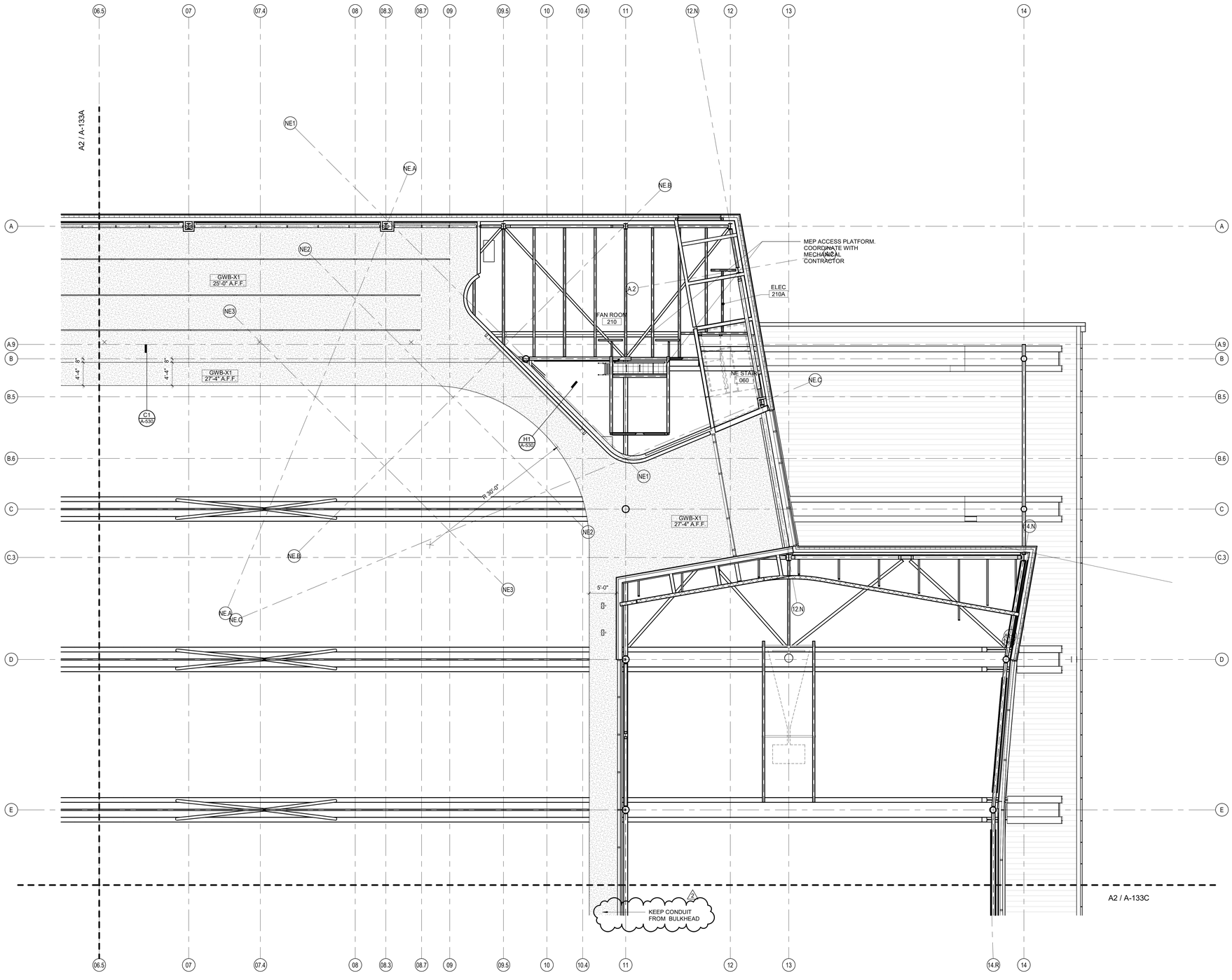

A2 / A-133B

UPPER LEVEL REFLECTED CEILING PLAN - AREA B

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
B. INSTALL NEW CEILINGS AT ▶ +9'-0" ◀ A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ▶ ACT-01 ◀ UNLESS NOTED OTHERWISE.
C. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.
D. LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN ▶ NOT LESS THAN 1/2 TILE WIDTH. ◀ UNLESS OTHERWISE INDICATED.
E. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
F. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES ▶ PT-01 ◀ UNLESS OTHERWISE INDICATED.
G. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
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RCP LEGEND

CEILING TAG
XXX-01 / 10'-10" A.F.F. — *CEILING TYPE* / *CEILING HEIGHT (ABOVE FINISH FLOOR)*

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

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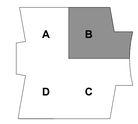

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR REFLECTED CEILING PLAN - AREA B

SHEET NUMBER
A-133B

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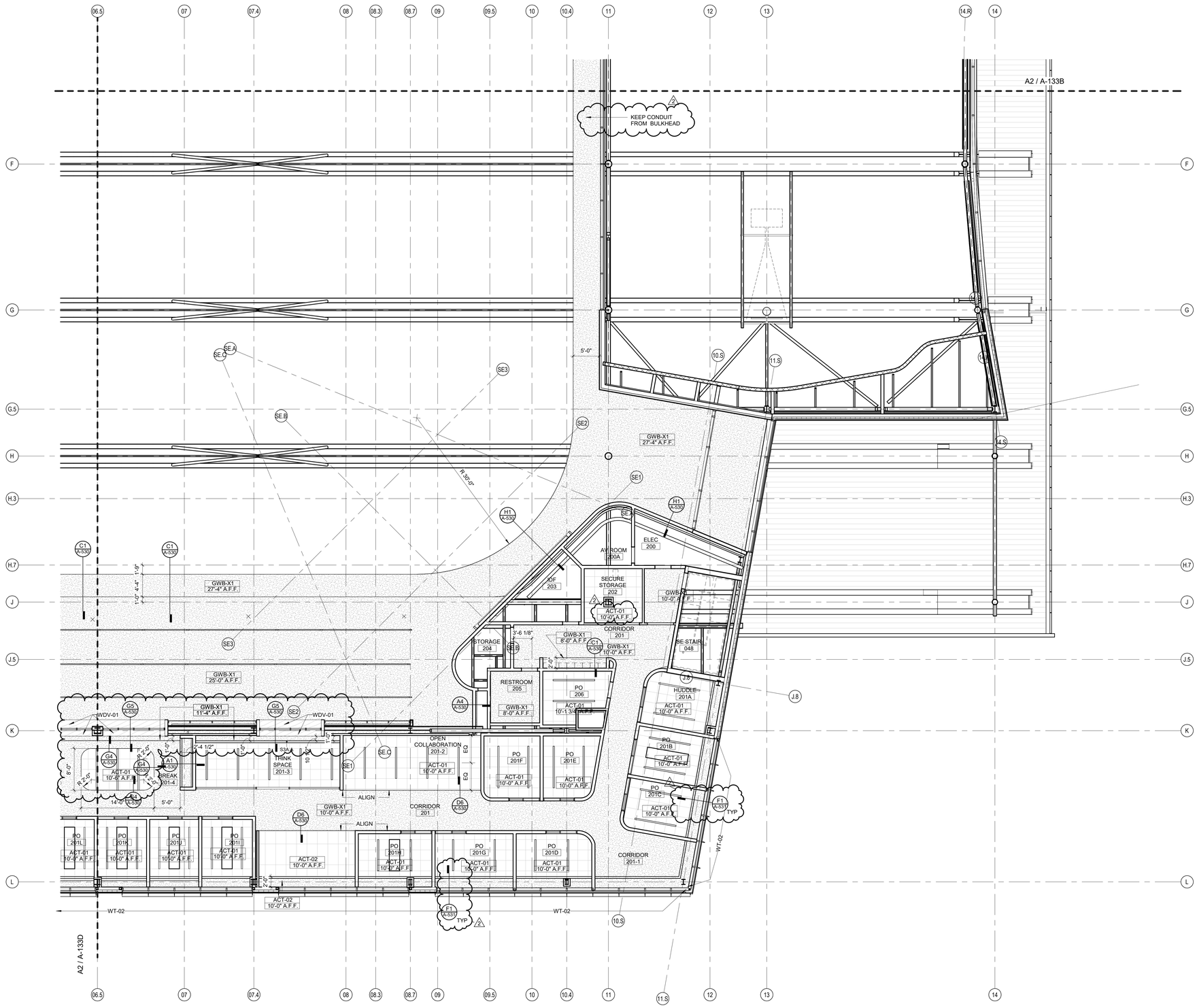

UPPER LEVEL REFLECTED CEILING PLAN - AREA C

A2 / A-133C — 1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

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RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F. — *CEILING TYPE*; *CEILING HEIGHT (ABOVE FINISH FLOOR)*
SPOT ELEVATION MARKER
GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)
ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

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IU Project NO. 20240127

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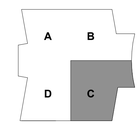

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE PRESTON REECE JR. No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO
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PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR REFLECTED CEILING PLAN - AREA C

SHEET NUMBER
A-133C

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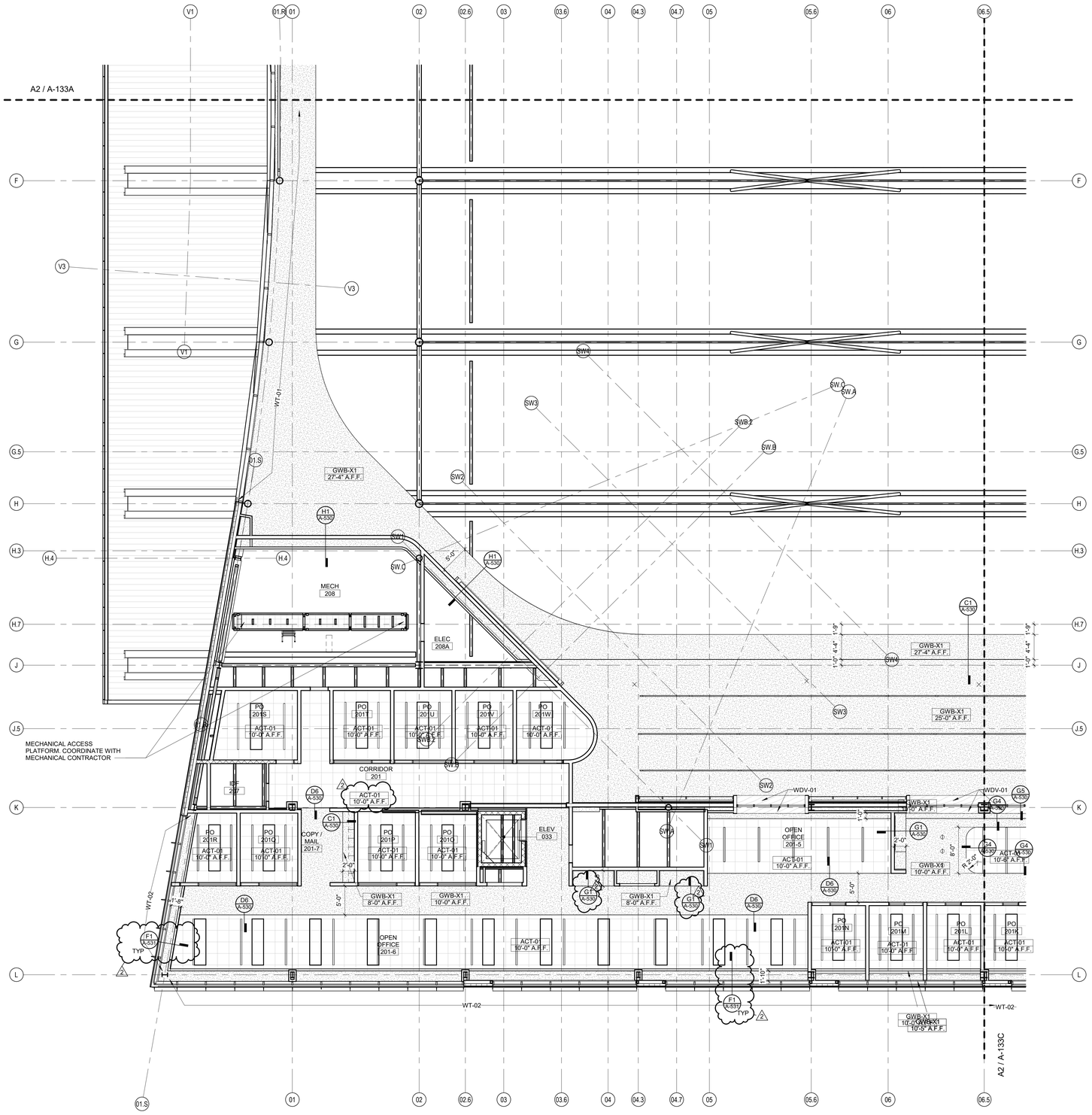

A2 / A-133D

UPPER LEVEL REFLECTED CEILING PLAN - AREA D

1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
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RCP LEGEND

CEILING TAG
XXX-01 10'-10" A.F.F.
CEILING TYPE
CEILING HEIGHT (ABOVE FINISH FLOOR)

SPOT ELEVATION MARKER

GYB BOARD CEILING (REFER TO PLAN FOR SUSPENSION TYPE)

ACOUSTIC CEILING TILE

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

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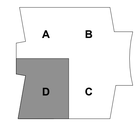
FORT LAUDERDALE, FL 33309
954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729



KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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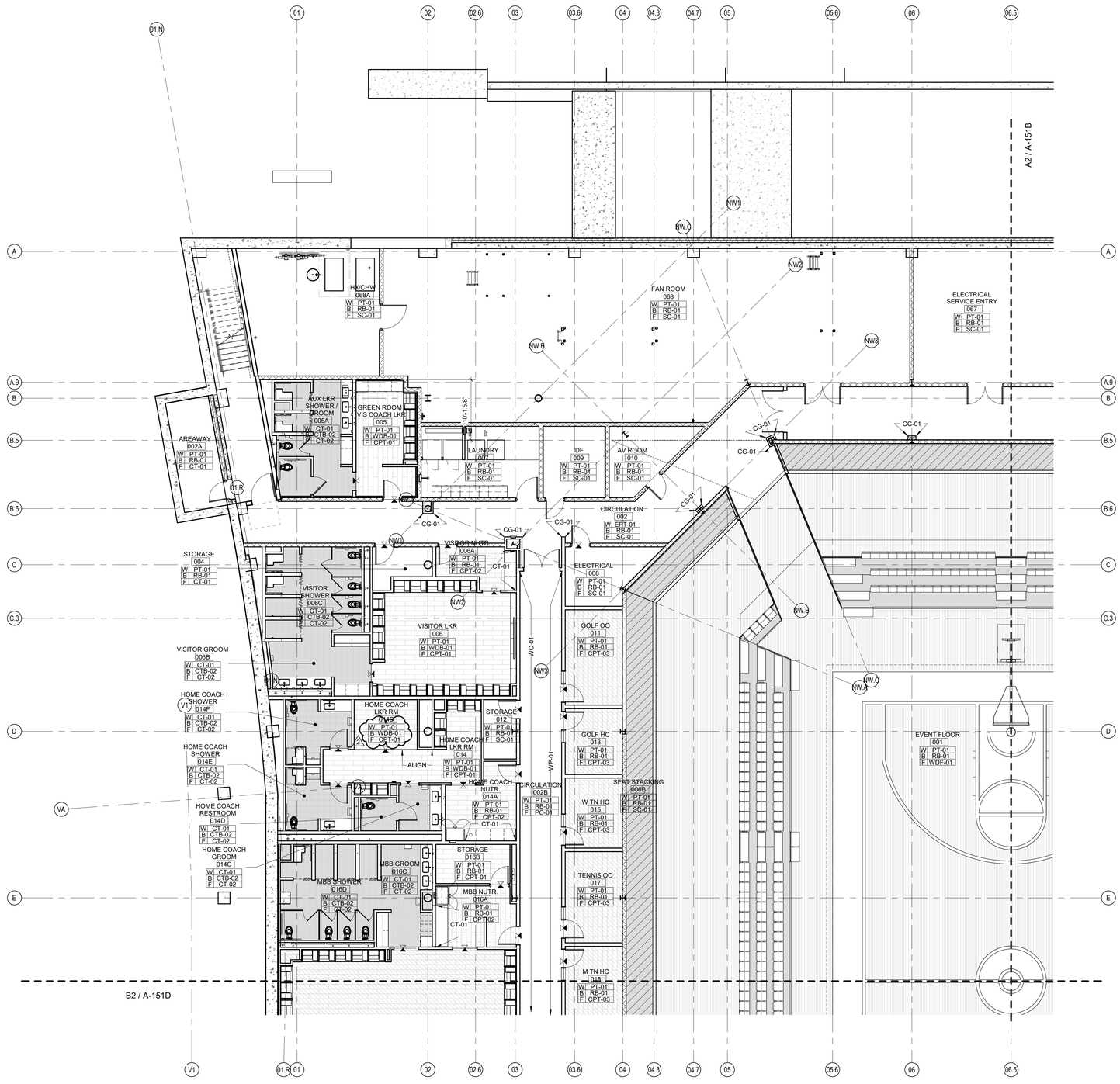
PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR REFLECTED CEILING PLAN - AREA D

SHEET NUMBER
A-133D

1/28/2025 10:26:14 PM



EVENT LEVEL FINISH PLAN - AREA A

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-150 DRAWINGS.
B. PAINT NEW AND EXISTING HOLLOW METAL DOORS, DOOR FRAMES, AND LINTELS EXPOSED TO VIEW IN FINISHED AREAS AND AT EXTERIOR LOCATIONS PT-01 UNLESS NOTED OTHERWISE.
C. PAINT STEEL COLUMNS, BEAMS, STRUCTURE, ETC., EXPOSED TO VIEW IN FINISHED AREAS PT-01 UNLESS NOTES OTHERWISE.
D. PAINT EXISTING FIRE EXTINGUISHER CABINETS, METAL ACCESS PANELS, LOUVERS, UNIT VENTILATORS, AND OTHER PAINTABLE SURFACES IN ROOMS TO BE FINISHED TO MATCH HOST WALL UNLESS NOTES OTHERWISE.
E. IN STAIRWELLS, PAINT STEEL STAIR AND LANDING PARTS EXPOSED TO VIEW INCLUDING RISERS AND TREADS, STRINGERS, UNDERSIDE OF STAIR STRUCTURE, HANDRAILS, WALL BRACKETS, COMPONENTS VISIBLE FROM EXTERIOR, ETC.
F. PROVIDE FINISHES BEHIND FIXED CABINETS/CASEWORK.
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I. REFER TO REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.
J. REFER TO PROJECT MANUAL DIVISION 09 FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES UNLESS OTHERWISE INDICATED.
K. REFER TO SPECIFICATIONSFOR ELEVATOR CAB FINISHES, UNLESS NOTED OTHERWISE.
L. REFERENCE INTERIOR DETAIL SHEETS FOR TYPICAL TRANSITION AND BASE DETAILS.
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P. REVEALS AND EXPOSED MEPRP ROUGH-IN SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE.

FINISHES-SYMBOLS LEGEND

Room name XXXXX
W Wall Fin.
B Base Fin.
F Floor Fin.
150 SF
— ROOM NAME AND ROOM FINISHES

FLOORING MATERIAL TRANSITION VIEW REFERENCE

FLOORING DIRECTION

PT-XX — ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS

CT	CT	QT
VCT	TZ	TZ
- / ---	- / ---	- / ---
CPT	CPT	CPT
CT	VCT	QT
- / ---	- / ---	- / ---

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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INDIANA UNIVERSITY BOARD OF TRUSTEES
2901 EAST DISCOVERY PARKWAY
BLOOMINGTON, IN 47408
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Architect
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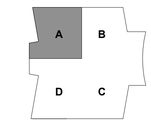

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
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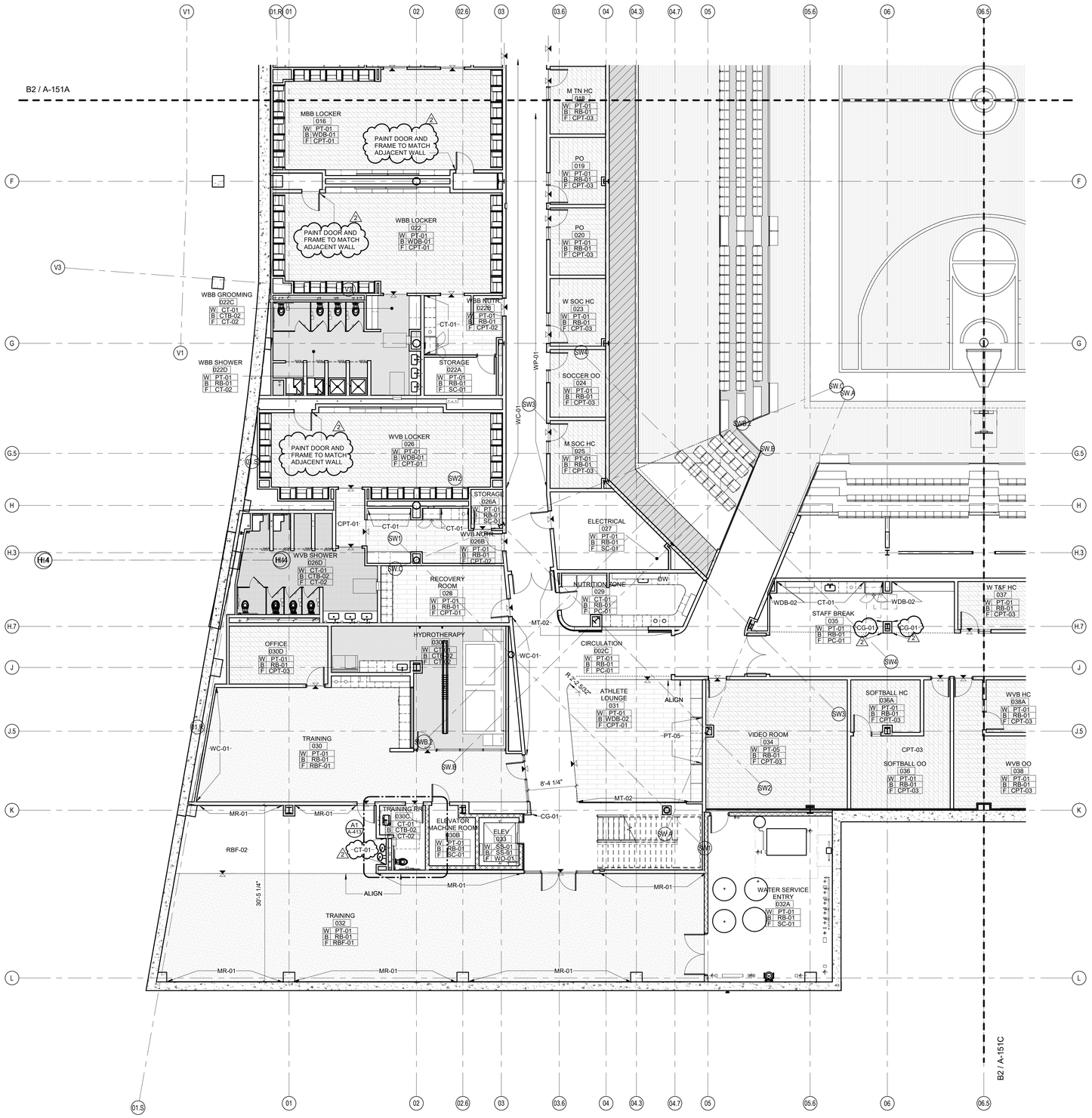
PROJECT NO. 23112.000

SHEET TITLE
EVENT FLOOR FINISH PLAN - AREA A

SHEET NUMBER
A-151A

1/24/2025 3:53:08 PM



B2 / A-151D

EVENT LEVEL FINISH PLAN - AREA D

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-150 DRAWINGS.
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FINISHES-SYMBOLS LEGEND

Room name XXXXX — W: Wall Fin. B: Base Fin. F: Floor Fin. 150 SF — ROOM NAME AND ROOM FINISHES

FLOORING MATERIAL TRANSITION VIEW REFERENCE

FLOORING DIRECTION

PT-XX — ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
INDIANA UNIVERSITY BOARD OF TRUSTEES
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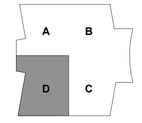
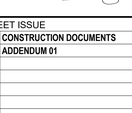


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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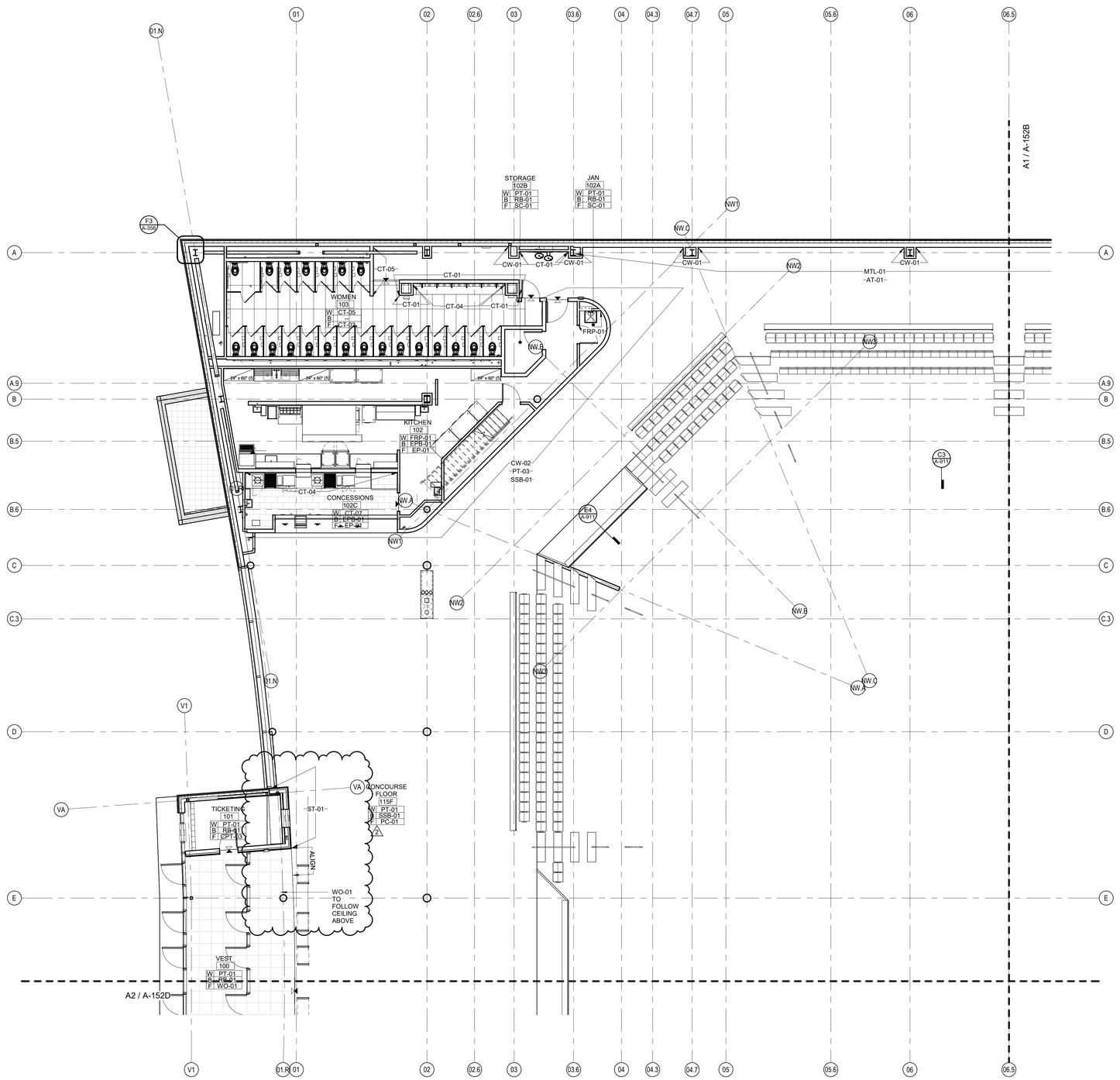
PROJECT NO. 23112.000

SHEET TITLE
EVENT FLOOR FINISH PLAN - AREA D

SHEET NUMBER
A-151D

1/24/2025 3:53:13 PM



B2 / A-152A **CONCOURSE LEVEL FINISH PLAN - AREA A**

1/8" = 1'-0"

1/24/2025 3:53:18 PM

GENERAL FINISH PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-150 DRAWINGS.
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FINISHES-SYMBOLS LEGEND

Room name
XXXXX
W Wall Fin.
B Base Fin.
F Floor Fin.
150 SF
— ROOM NAME AND ROOM FINISHES

— FLOORING MATERIAL TRANSITION VIEW REFERENCE

— FLOORING DIRECTION

PT-XX — ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS

CT | CT | QT
VCT | TZ | TZ
- / --- | - / --- | - / ---

CPT | CPT | CPT
CT | VCT | QT
- / --- | - / --- | - / ---

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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BLOOMINGTON, IN 47408
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Architect
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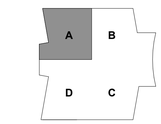

KEY PLAN

SEAL | DATE 01/27/25



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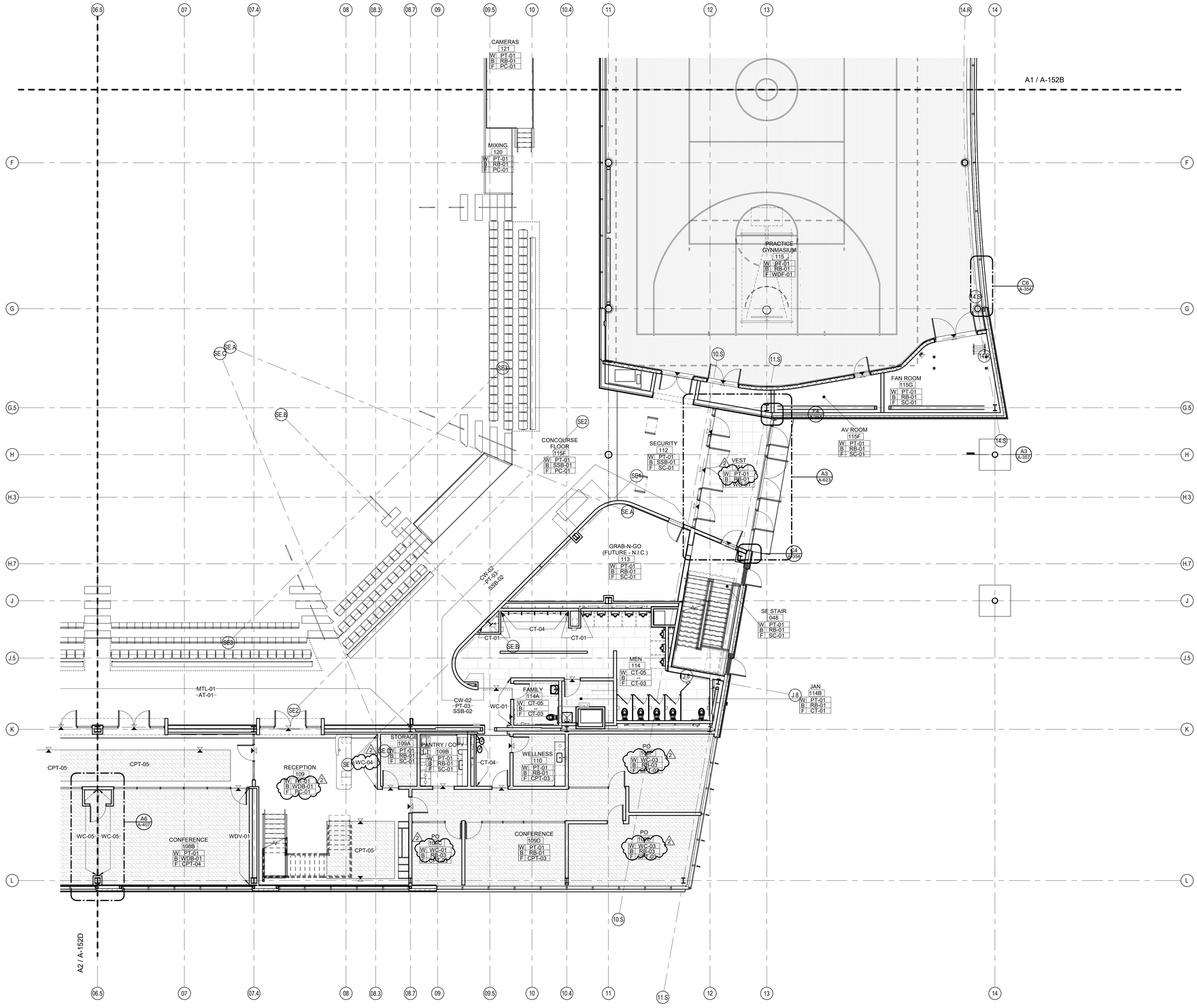
PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE FINISH PLAN - AREA A

SHEET NUMBER
A-152A



A1 CONCOURSE LEVEL FINISH PLAN - AREA C

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

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FINISHES-SYMBOLS LEGEND

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B Base Fin.
F Floor Fin.
150 SF
ROOM NAME AND ROOM FINISHES

FLOORING MATERIAL TRANSITION VIEW REFERENCE

FLOORING DIRECTION

PT-XX
ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS

CT CT QT
VCT TZ TZ
- / --- - / --- - / ---

CPT CPT CPT
CT VCT QT
- / --- - / --- - / ---

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

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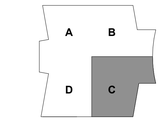

KEY PLAN

SEAL | DATE 01/27/25



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1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE FINISH PLAN - AREA C

SHEET NUMBER
A-152C

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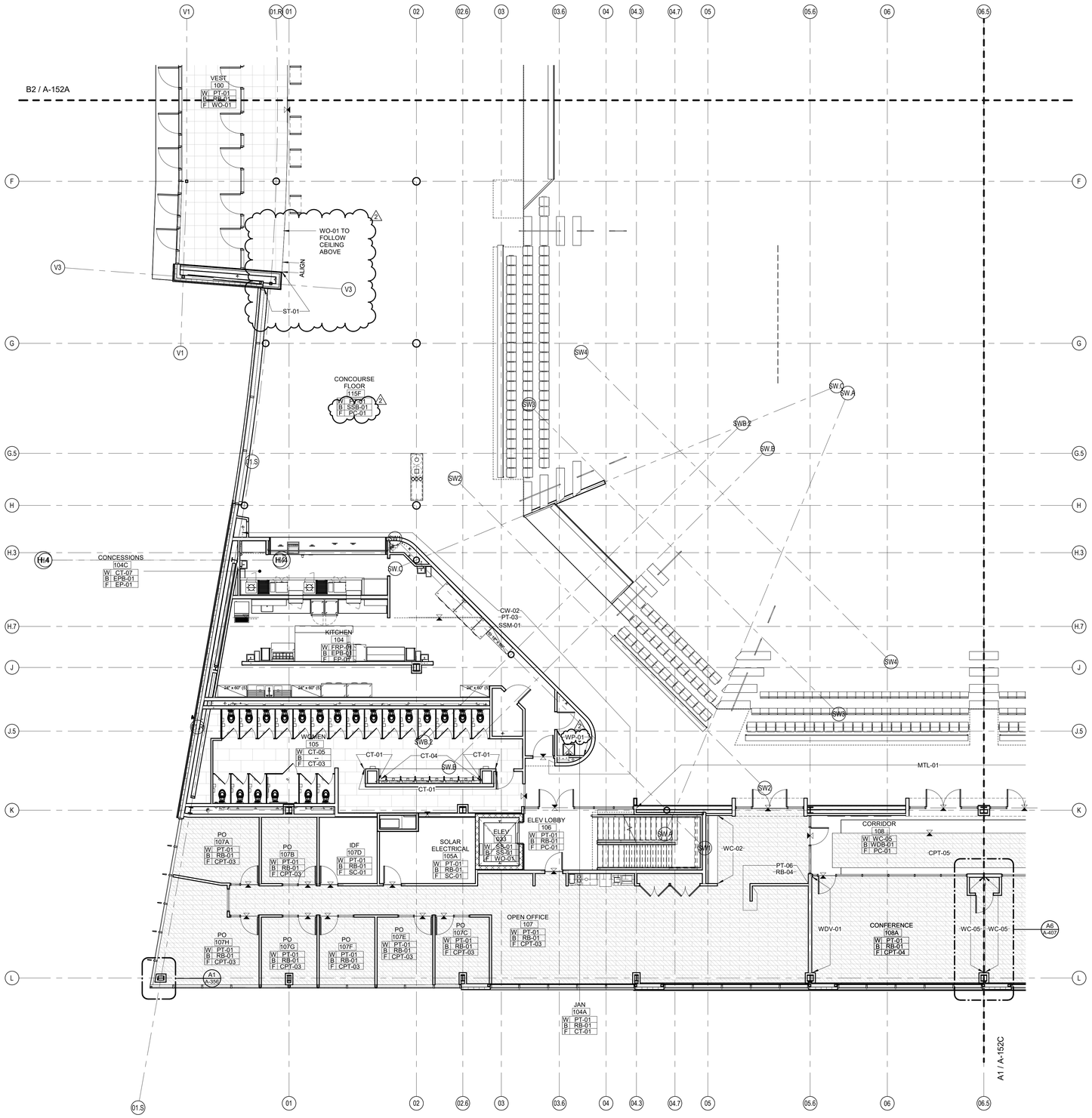

A2 (A-152D)

CONCOURSE LEVEL FINISH PLAN - AREA D

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-150 DRAWINGS.
B. PAINT NEW AND EXISTING HOLLOW METAL DOORS, DOOR FRAMES, AND LINTELS EXPOSED TO VIEW IN FINISHED AREAS AND AT EXTERIOR LOCATIONS PT-01 UNLESS NOTED OTHERWISE.
C. PAINT STEEL COLUMNS, BEAMS, STRUCTURE, ETC., EXPOSED TO VIEW IN FINISHED AREAS PT-01 UNLESS NOTES OTHERWISE.
D. PAINT EXISTING FIRE EXTINGUISHER CABINETS, METAL ACCESS PANELS, LOUVERS, UNIT VENTILATORS, AND OTHER PAINTABLE SURFACES IN ROOMS TO BE FINISHED TO MATCH HOST WALL UNLESS NOTES OTHERWISE.
E. IN STAIRWELLS, PAINT STEEL STAIR AND LANDING PARTS EXPOSED TO VIEW INCLUDING RISERS AND TREADS, STRINGERS, UNDERSIDE OF STAIR STRUCTURE, HANDRAILS, WALL BRACKETS, COMPONENTS VISIBLE FROM EXTERIOR, ETC.
F. PROVIDE FINISHES BEHIND FIXED CABINETS/CASEWORK.
G. PROVIDE FINISHES BEHIND FIXED EQUIPMENT SUCH AS CHALK AND TACKBOARDS, LOCKERS, ETC.
H. ALIGN FLOOR FINISH TRANSITIONS AT DOOR LOCATIONS WITH CENTERLINE OF DOOR SUCH THAT TRANSITION MATERIALS ARE NOT VISIBLE FROM EITHER SIDE WHEN DOOR IS IN CLOSED POSITION.
I. REFER TO REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.
J. REFER TO PROJECT MANUAL DIVISION 09 FOR FINISH LEVEL REQUIREMENTS FOR GYPSUM BOARD SURFACES UNLESS OTHERWISE INDICATED.
K. REFER TO SPECIFICATIONSFOR ELEVATOR CAB FINISHES, UNLESS NOTED OTHERWISE.
L. REFERENCE INTERIOR DETAIL SHEETS FOR TYPICAL TRANSITION AND BASE DETAILS.
M. DO NOT APPLY BASE TO CURTAIN WALL BASE MULLION OR BRICK. SCRIBE FLOOR FINISHES TO MULLIONS / BRICK.
N. UNLESS NOTED OTHERWISE, DO NOT TERMINATE OR TRANSITION ANY FINISHES ON OUTSIDE CORNERS. BRING ANY CONFLICTS TO THE ARCHITECT'S/OWNER'S ATTENTION PRIOR TO ORDER AND INSTALLATION OF MATERIALS.
O. WHERE RESILENT BASE IS SPECIFICED, PROVIDE STRAIGHT BASE AT CARPET & COVED BASE AT HARD SURFACE FLOORING
P. REVEALS AND EXPOSED MEPRP ROUGH-IN SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE.

FINISHES-SYMBOLS LEGEND

Room name
XXXXX
W Wall Fin
B Base Fin
F Floor Fin
150 SF
ROOM NAME AND ROOM FINISHES

FLOORING MATERIAL TRANSITION VIEW REFERENCE

FLOORING DIRECTION

PT-XX
ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS

CT	CT	QT	CPT	CPT	CPT
VCT	TZ	TZ	CT	VCT	QT
- / ---	- / ---	- / ---	- / ---	- / ---	- / ---

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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INDIANA UNIVERSITY BOARD OF TRUSTEES
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BLOOMINGTON, IN 47408
812-855-1692

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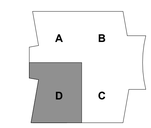

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
CONCOURSE FINISH PLAN - AREA D

SHEET NUMBER
A-152D

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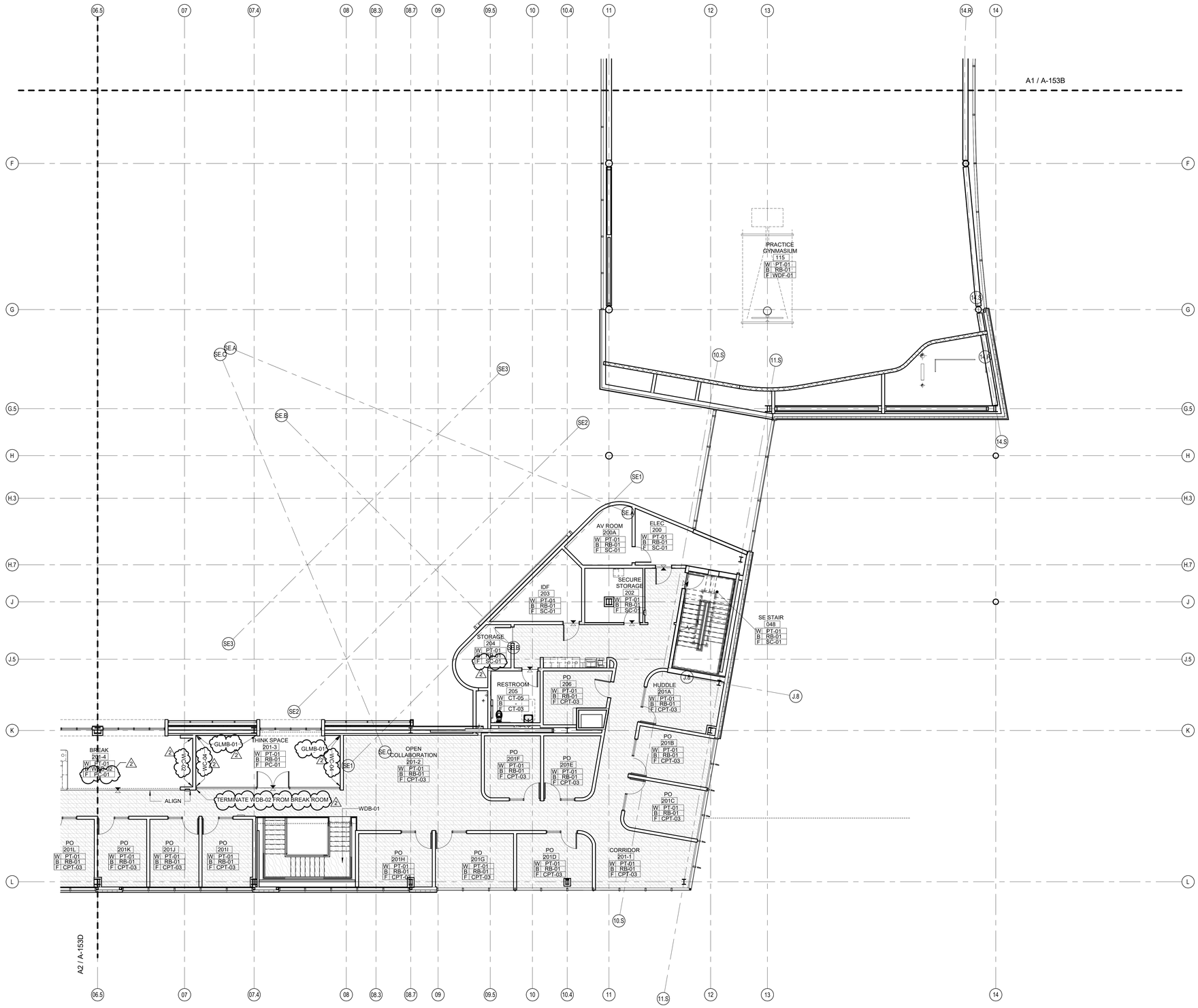

A1 / A-153C

UPPER FLOOR FINISH PLAN - AREA C

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

A. THESE GENERAL NOTES APPLY TO SERIES A-150 DRAWINGS.
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FINISHES-SYMBOLS LEGEND

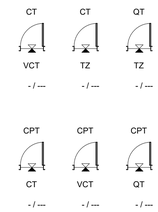
Room name XXXXX
W Wall Fin
B Base Fin
F Floor Fin
150 SF
ROOM NAME AND ROOM FINISHES

FLOORING MATERIAL TRANSITION VIEW REFERENCE

FLOORING DIRECTION

PT-XX
ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS



KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
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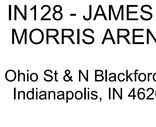

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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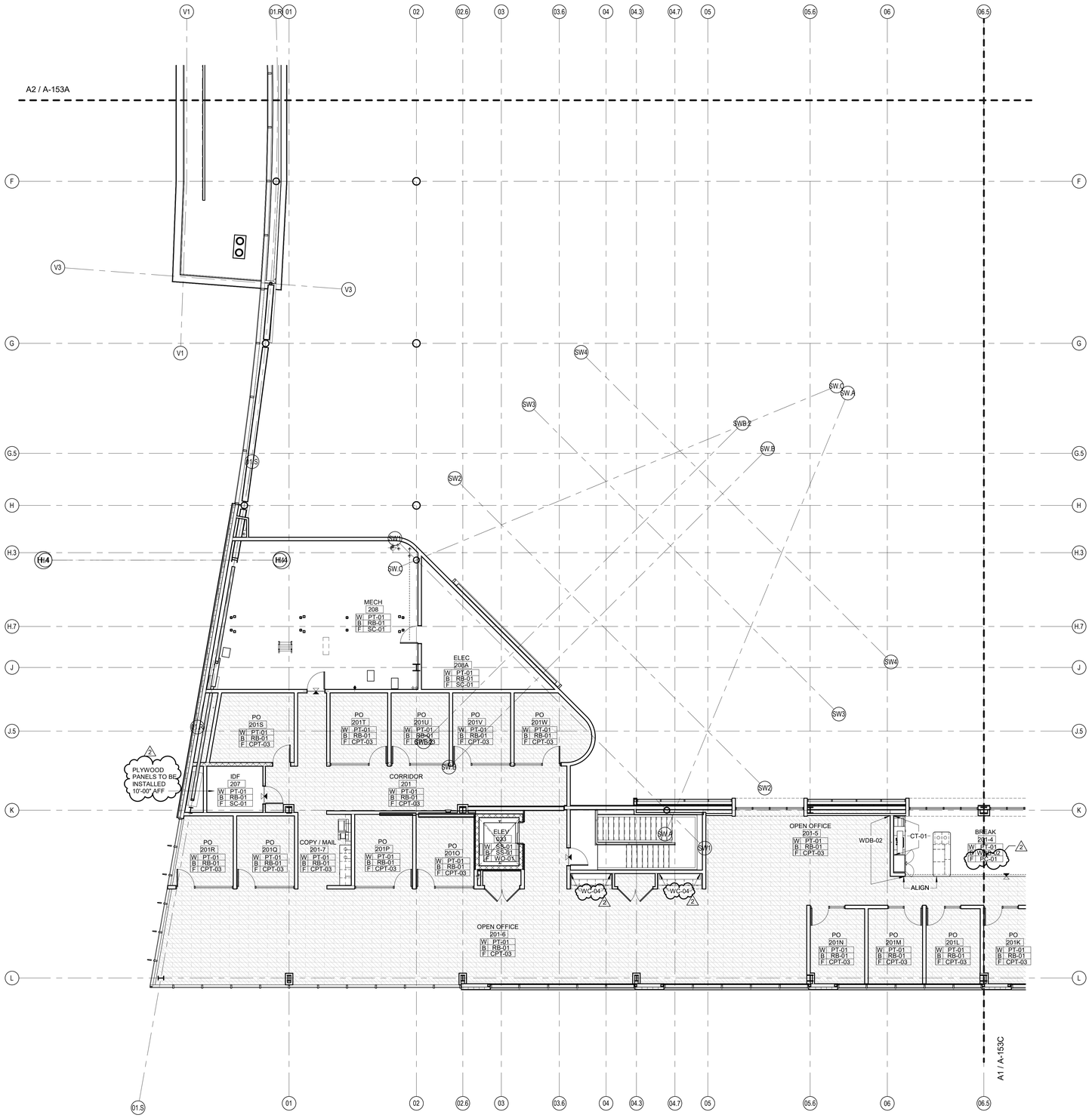
PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR FINISH PLAN - AREA C

SHEET NUMBER
A-153C

1/24/2025 3:53:32 PM



A2 / A-153D

UPPER FLOOR FINISH PLAN - AREA D

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

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FINISHES-SYMBOLS LEGEND

Room name
XXXXX
W Wall Fin
B Base Fin
F Floor Fin
150 SF
ROOM NAME AND ROOM FINISHES

FLOORING MATERIAL TRANSITION VIEW REFERENCE

FLOORING DIRECTION

PT-XX
ACCENT WALL FINISH DESIGNATION

FINISH TRANSITIONS AT DOORS

CT	CT	QT
VCT	TZ	TZ
- / ---	- / ---	- / ---
CPT	CPT	CPT
CT	VCT	QT
- / ---	- / ---	- / ---

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

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IU Project NO. 20240127

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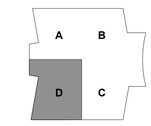

KEY PLAN

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
UPPER FLOOR FINISH PLAN - AREA D

SHEET NUMBER
A-153D

1/24/2025 3:53:36 PM

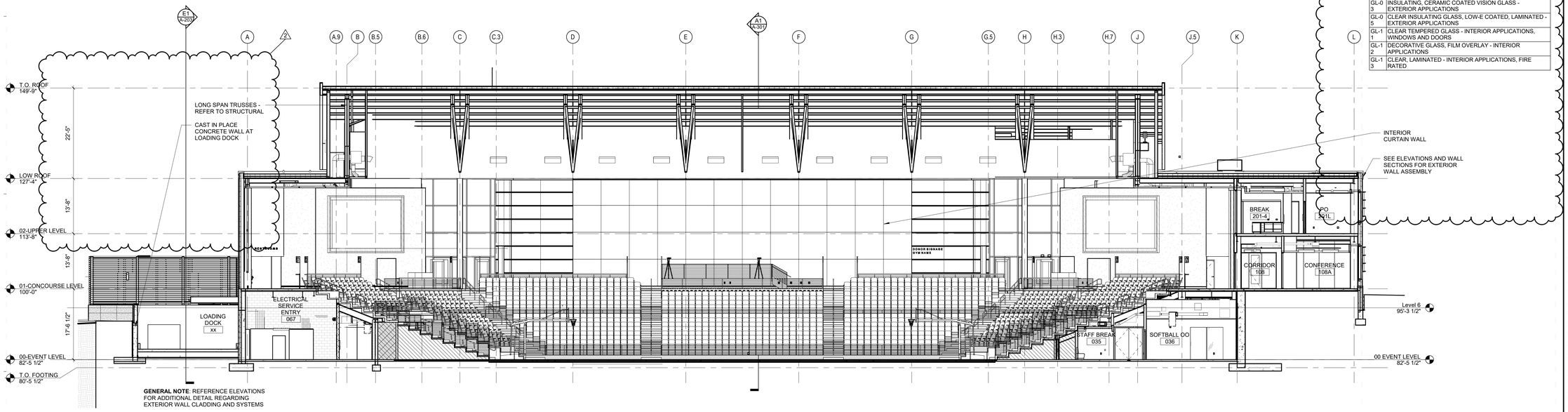
KEYNOTES (SPEC BASED)

061600.A00

REFER TO WALL SECTIONS AND ELEVATIONS FOR EXTERIOR INFORMATION

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

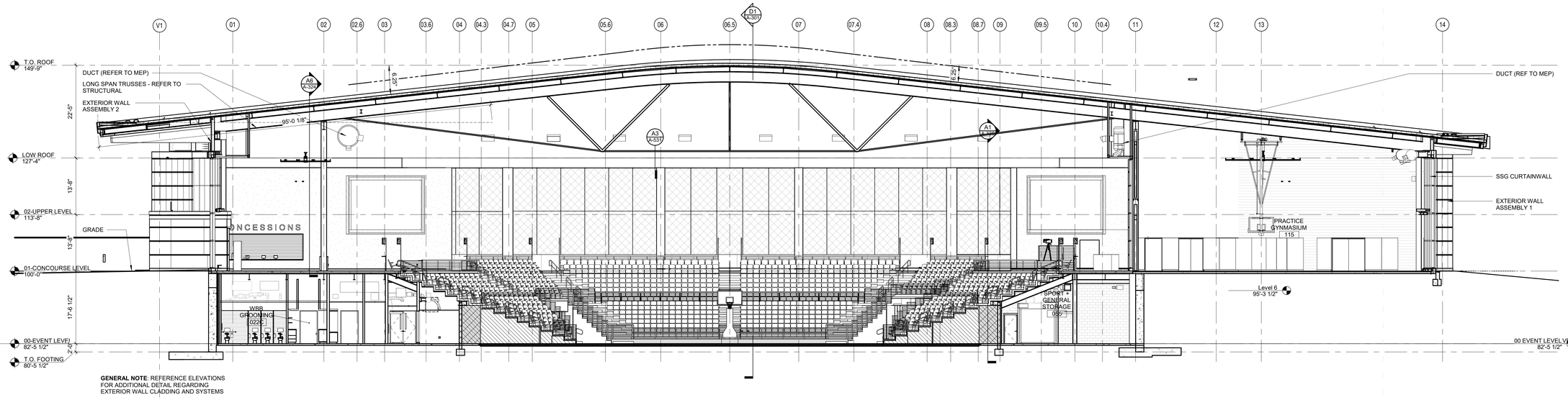


GENERAL NOTE: REFERENCE ELEVATIONS FOR ADDITIONAL DETAIL REGARDING EXTERIOR WALL CLADDING AND SYSTEMS

D1 A-301

BUILDING SECTION - NORTH TO SOUTH

3/32" = 1'-0"



GENERAL NOTE: REFERENCE ELEVATIONS FOR ADDITIONAL DETAIL REGARDING EXTERIOR WALL CLADDING AND SYSTEMS

A1 A-301

BUILDING SECTION - EAST TO WEST

3/32" = 1'-0"

1/24/2025 4:04:46 PM

IN128 - JAMES T. MORRIS ARENA

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PROJECT NO. 23112.000

SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
A-301

EXTERIOR DESIGN ALTERNATE SCHEDULE

A. ALTERNATE NO.2 (SEE PROJECT MANUAL): 107115 - VERTICAL AND HORIZONTAL SUNSHADES
   a. BASE BID = ALUMINUM SUNSHADES, CURTAINWALL SUPPORTED
   b. ALTERNATE = TERRACOTTA SUNSHADES, CURTAINWALL SUPPORTED

EXT. DESIGN & ALTERNATE NOTES

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
033000.A05	CAST-IN-PLACE CONCRETE WALL
042000.H05	CONCRETE MASONRY UNIT, 4"
042000.H07	CONCRETE MASONRY UNIT, 8"
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
054000.A02	COLD-FORMED METAL FRAMING - 6"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
071000	DAMPPROOFING AND WATERPROOFING
071326.A00	SELF-ADHERING SHEET WATERPROOFING
072100.C02	MINERAL-WOOL BOARD
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
074213.16.A00	METAL PLATE WALL PANELS
074213.53.A00	METAL SOFFIT PANELS
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
075423.A02	TPO ROOFING SYSTEM
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
089119.A00	FIXED LOUVERS
280000.A00	ELECTRONIC SAFETY AND SECURITY DEVICE, REFERENCE ELECTRICAL/TECHNOLOGY DRAWINGS

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
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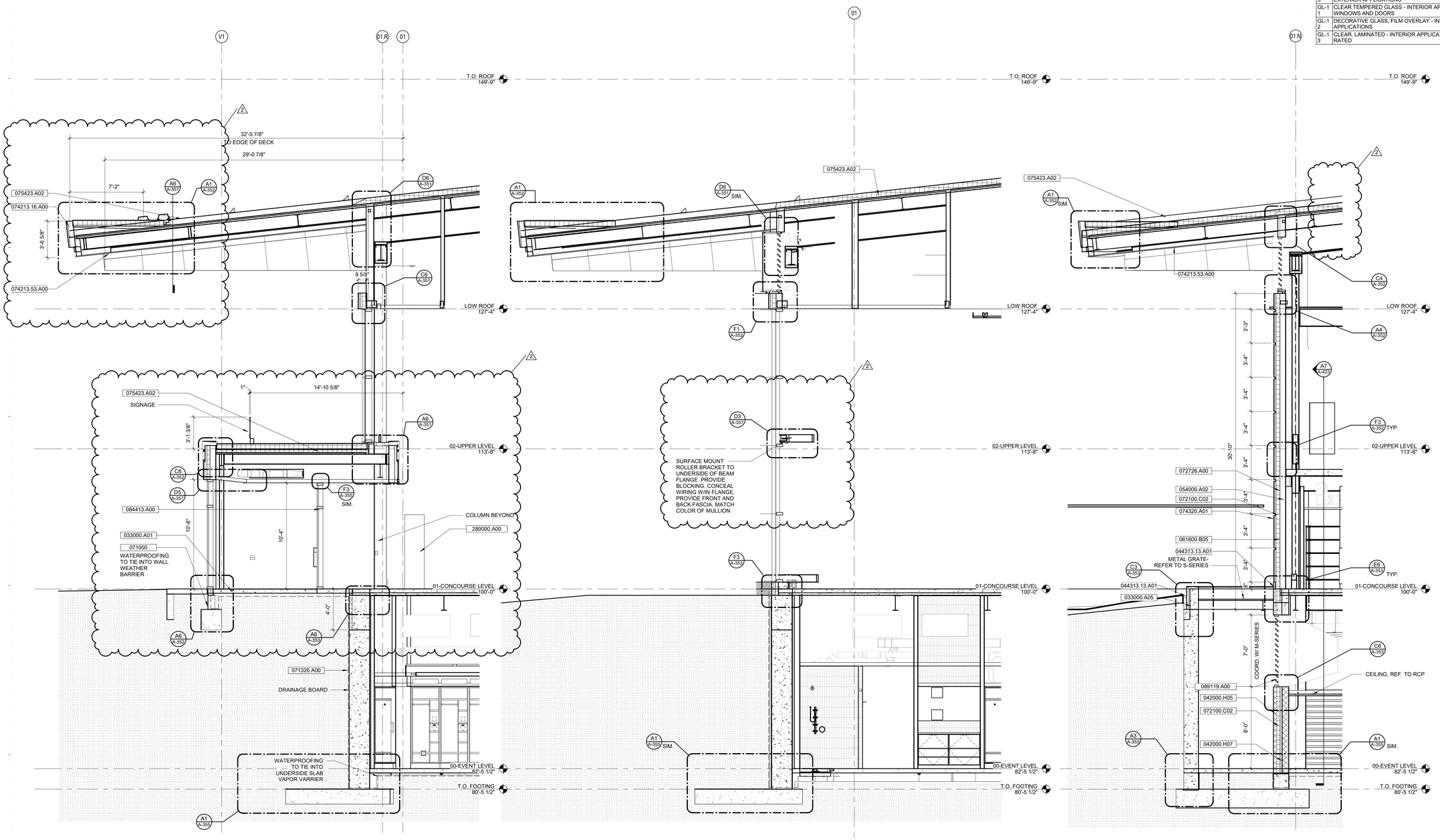
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED



A1 / A-321 **WALL SECTION**
1/4" = 1'-0"

A4 / A-321 **WALL SECTION**
1/4" = 1'-0"

A6 / A-321 **WALL SECTION**
1/4" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A-321

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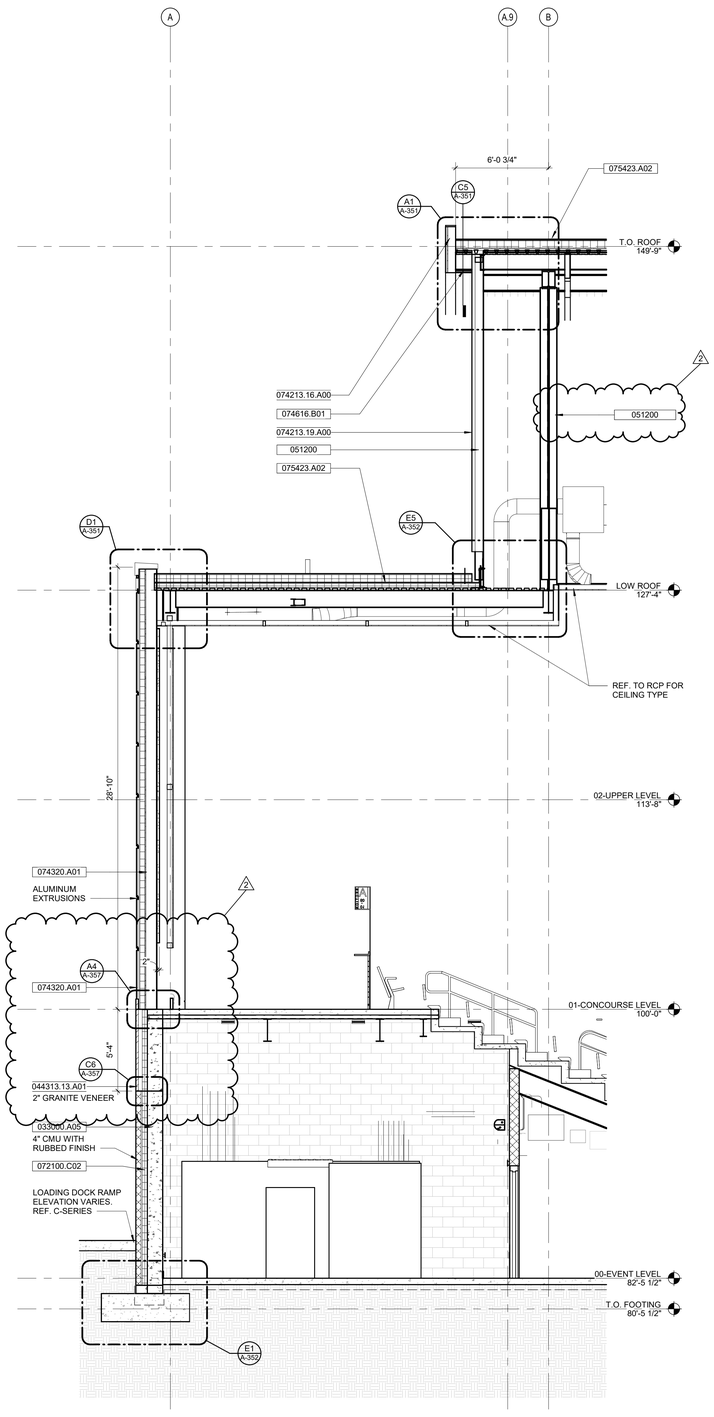
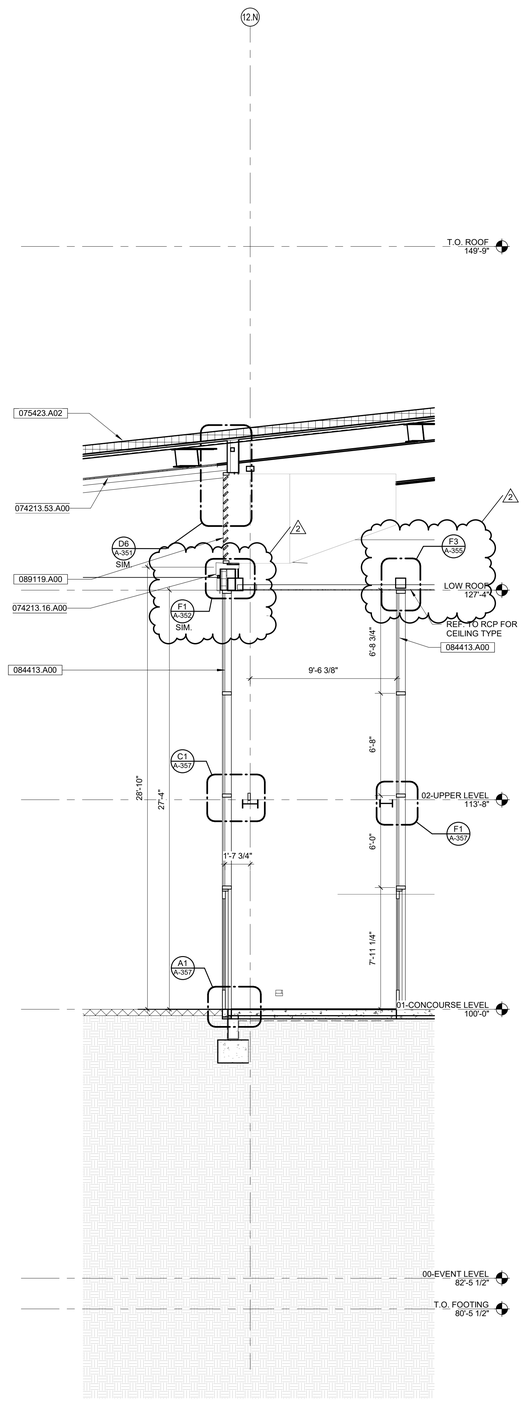
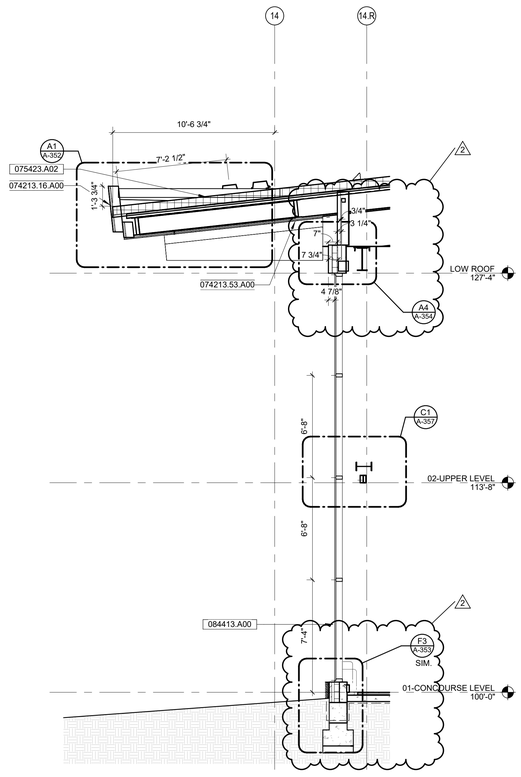


A1 A-322 **WALL SECTION**
1/4" = 1'-0"



A4 A-322 **WALL SECTION**
1/4" = 1'-0"



B7 A-322 **WALL SECTION**
1/4" = 1'-0"

EXTERIOR DESIGN ALTERNATE SCHEDULE

A. ALTERNATE NO.2 (SEE PROJECT MANUAL): 107115 - VERTICAL AND HORIZONTAL SUNSHADES
   a. BASE BID = ALUMINUM SUNSHADES, CURTAINWALL SUPPORTED
   b. ALTERNATE = TERRACOTTA SUNSHADES, CURTAINWALL SUPPORTED

EXT. DESIGN & ALTERNATE NOTES

KEYNOTES (SPEC BASED)

061600.A00

033000.A05	CAST-IN-PLACE CONCRETE WALL
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
051200	STRUCTURAL STEEL FRAMING (VERIFY NUMBERING WITH CONSULTANTS, AS REQUIRED)
072100.C02	MINERAL-WOOL BOARD
074213.16.A00	METAL PLATE WALL PANELS
074213.19.A00	INSULATED METAL WALL PANELS
074213.53.A00	METAL SOFFIT PANELS
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
074616.B01	ALUMINUM SOFFIT
075423.A02	TPO ROOFING SYSTEM
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
089119.A00	FIXED LOUVERS

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE III REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A-322

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A. CONTINUOUS INSULATION NOTES:
   a. ALL ABOVE GRADE WALL SYSTEMS (EXCEPT FOR THE IMP METAL PANEL CLADDING SYSTEM) HAVE 4" MINERAL BOARD INSULATION
   b. BELOW GRADE CONDITIONS WILL HAVE 4" OF XPS

GENERAL WALL SECTION NOTES

EXTERIOR DESIGN ALTERNATE SCHEDULE

A. ALTERNATE NO.2 (SEE PROJECT MANUAL): 107115 - VERTICAL AND HORIZONTAL SUNSHADES
   a. BASE BID = ALUMINUM SUNSHADES, CURTAINWALL SUPPORTED
   b. ALTERNATE = TERRACOTTA SUNSHADES, CURTAINWALL SUPPORTED

EXT. DESIGN & ALTERNATE NOTES

KEYNOTES (SPEC BASED)

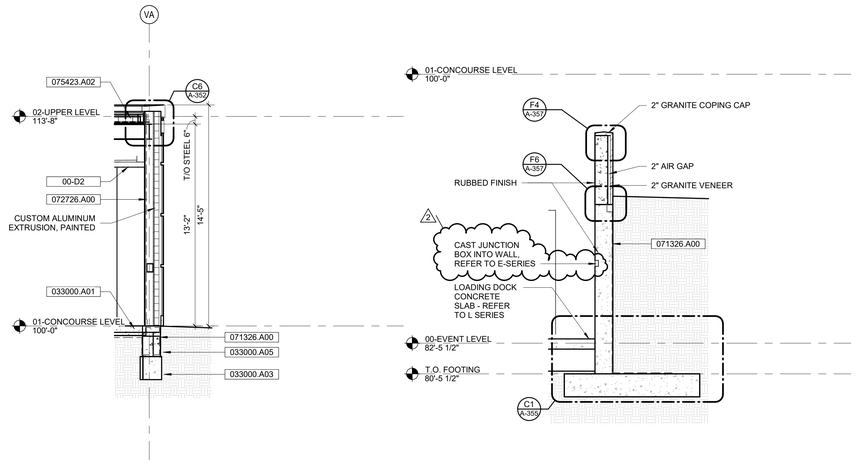
061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
033000.A03	CAST-IN-PLACE CONCRETE FOOTING
033000.A05	CAST-IN-PLACE CONCRETE WALL
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
051200.C01	STRUCTURAL STEEL FRAMING, BEAM
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.A03	COLD-FORMED METAL FRAMING - 8"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
071326.A00	SELF-ADHERING SHEET WATERPROOFING
072100.A00	THERMAL INSULATION
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072100.C02	MINERAL-WOOL BOARD
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
075423.A02	TPO ROOFING SYSTEM
076200.A01	SHEET METAL FLASHING AND TRIM
076200.G01	CURTAIN WALL INTEGRATED COPING, NOT BY CURTAIN WALL MANUFACTURER
077100.A01	COPING, METAL, MANUFACTURED
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
107113.B02	FIXED SUN SCREEN, HORIZONTAL
107113.B03	FIXED SUN SCREEN, VERTICAL

KEYNOTES (ACTION/GENERAL)

00-A1

00-D2	REFER TO REFLECTED CEILING PLAN FOR CEILING TYPE
09-A2	WALL FINISH, REFER TO FINISH PLAN FOR TYPE



E2 A-323 **WALL SECTION**
1/4" = 1'-0"

E4 A-323 **WALL SECTION**
1/4" = 1'-0"

A1 A-323 **WALL SECTION**
1/4" = 1'-0"

A2 A-323 **WALL SECTION**
1/4" = 1'-0"

A4 A-323 **WALL SECTION**
1/4" = 1'-0"

2

A6 A-323 **WALL SECTION**
1/4" = 1'-0"

A7 A-323 **WALL SECTION**
1/4" = 1'-0"

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A-323

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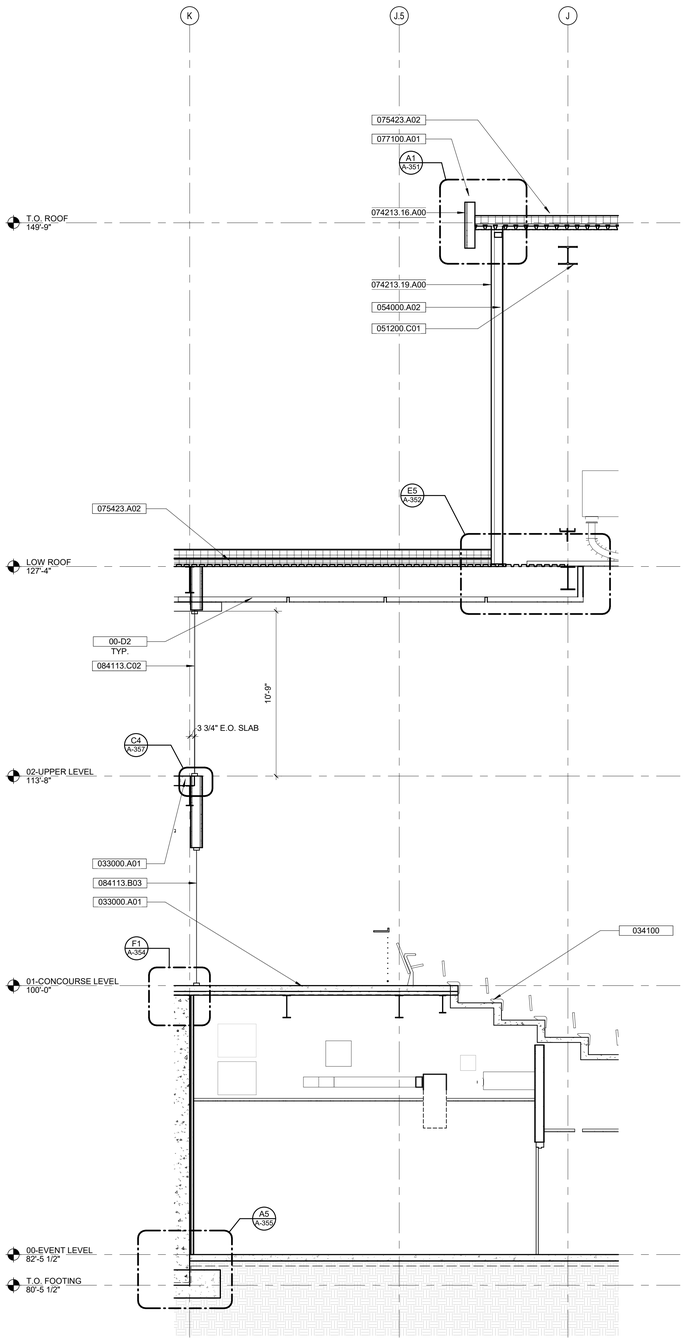
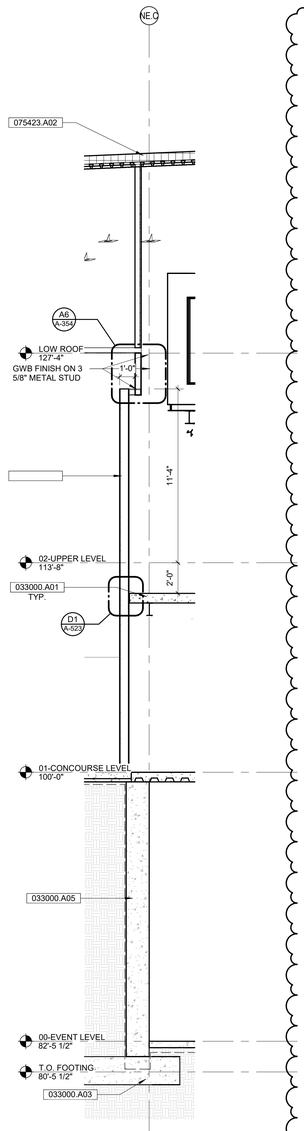
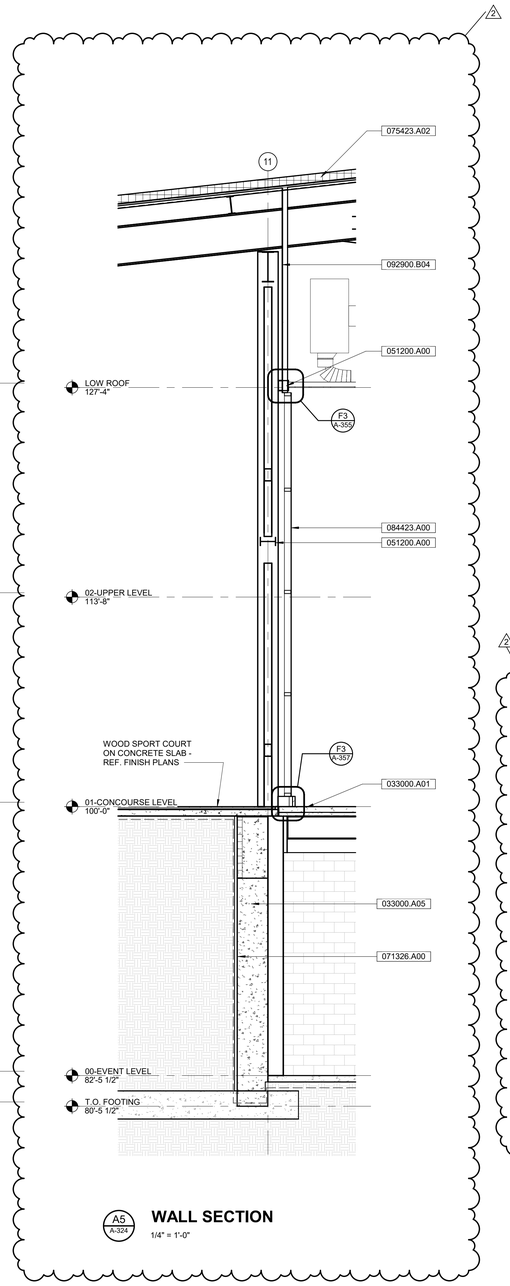


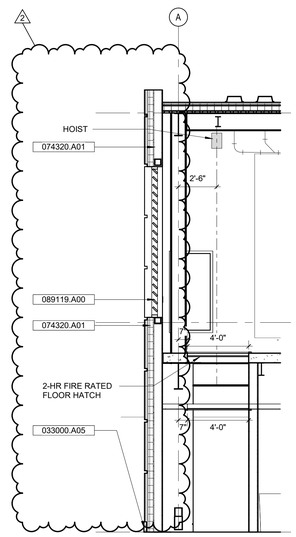
A1 A-324 **WALL SECTION**
1/4" = 1'-0"



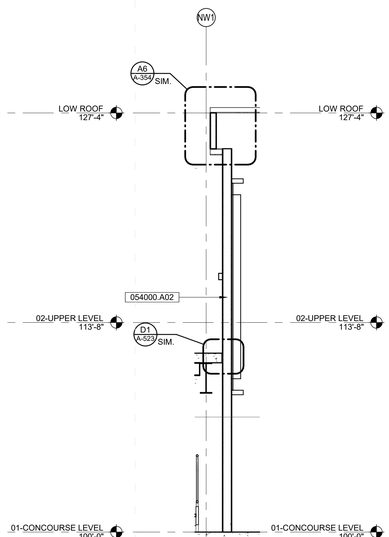
A4 A-324 **INTERIOR WALL SECTION**
1/4" = 1'-0"



A5 A-324 **WALL SECTION**
1/4" = 1'-0"



A6 A-324 **WALL SECTION**
1/4" = 1'-0"



A7 A-324 **INTERIOR WALL SECTION**
1/4" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
033000.A03	CAST-IN-PLACE CONCRETE FOOTING
033000.A05	CAST-IN-PLACE CONCRETE WALL
034100	PRECAST STRUCTURAL CONCRETE
051200.A00	STRUCTURAL STEEL FRAMING
051200.C01	STRUCTURAL STEEL FRAMING, BEAM
054000.A02	COLD-FORMED METAL FRAMING - 6"
071326.A00	SELF-ADHERING SHEET WATERPROOFING
074213.16.A00	METAL PLATE WALL PANELS
074213.19.A00	INSULATED METAL WALL PANELS
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
075423.A02	TPO ROOFING SYSTEM
077100.A01	COPING, METAL, MANUFACTURED
084113.B03	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
084113.C02	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - INTERIOR, 4 1/2" FRAME DEPTH
084423.A00	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS
089119.A00	FIXED LOUVERS
092900.B04	GYPSUM BOARD, 5/8"

KEYNOTES (ACTION/GENERAL)

00-A1

00-D2	REFER TO REFLECTED CEILING PLAN FOR CEILING TYPE

A. CONTINUOUS INSULATION NOTES:
   a. ALL ABOVE GRADE WALL SYSTEMS (EXCEPT FOR THE IMP METAL PANEL CLADDING SYSTEM) HAVE 4" MINERAL BOARD INSULATION.
   b. BELOW GRADE CONDITIONS WILL HAVE 4" OF XPS

GENERAL WALL SECTION NOTES

EXTERIOR DESIGN ALTERNATE SCHEDULE

A. ALTERNATE NO.2 (SEE PROJECT MANUAL): 107115 - VERTICAL AND HORIZONTAL SUNSHADES
   a. BASE BID = ALUMINUM SUNSHADES, CURTAINWALL SUPPORTED
   b. ALTERNATE = TERRACOTTA SUNSHADES, CURTAINWALL SUPPORTED

EXT. DESIGN & ALTERNATE NOTES

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WILLIAM A. BROWNE PRESTON REED JR. No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A-324

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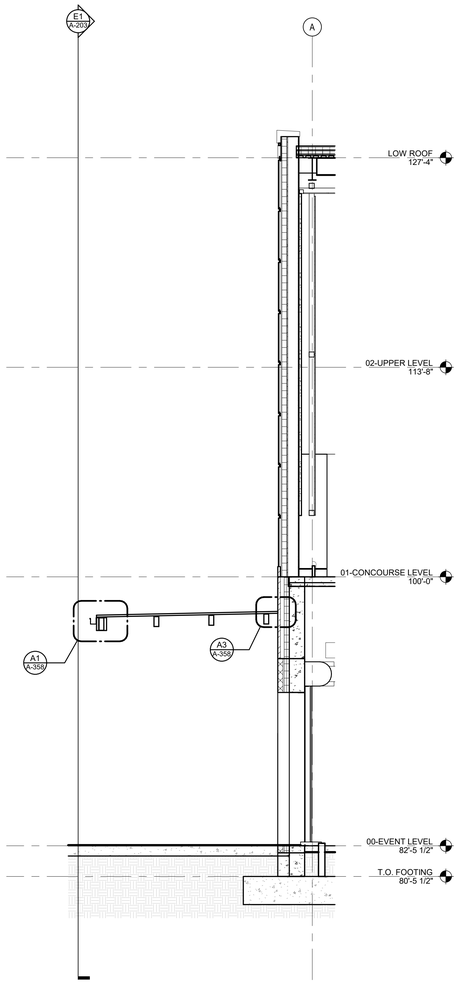
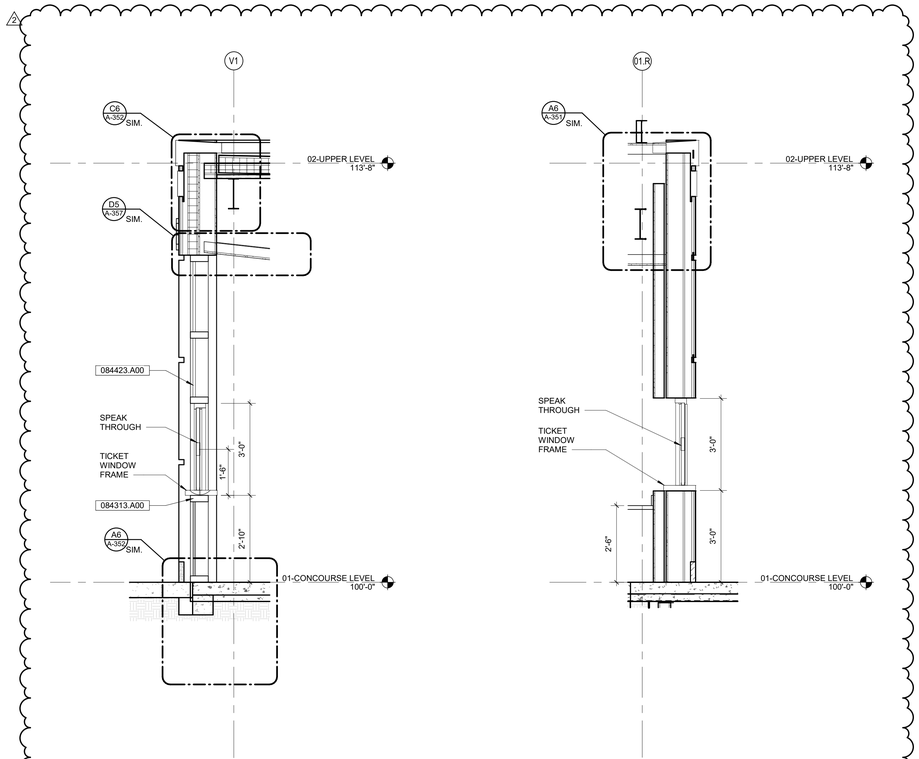


A1 A-325 **WALL SECTION**
1/4" = 1'-0"



A3 A-325 **WALL SECTION**
1/2" = 1'-0"

A5 A-325 **WALL SECTION - INT TICKET WINDOW**
1/2" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

084313.A00	ALUMINUM-FRAMED STOREFRONTS
084423.A00	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS

KEYNOTES (ACTION/GENERAL)

00-A1

A. CONTINUOUS INSULATION NOTES:
   a. ALL ABOVE GRADE WALL SYSTEMS (EXCEPT FOR THE IMP METAL PANEL CLADDING SYSTEM) HAVE 4" MINERAL BOARD INSULATION.
   b. BELOW GRADE CONDITIONS WILL HAVE 4" OF XPS

GENERAL WALL SECTION NOTES

EXTERIOR DESIGN ALTERNATE SCHEDULE

A. ALTERNATE NO.2 (SEE PROJECT MANUAL): 107115 - VERTICAL AND HORIZONTAL SUNSHADES
   a. BASE BID = ALUMINUM SUNSHADES, CURTAINWALL SUPPORTED
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EXT. DESIGN & ALTERNATE NOTES

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PROJECT NO. 23112.000

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A-325

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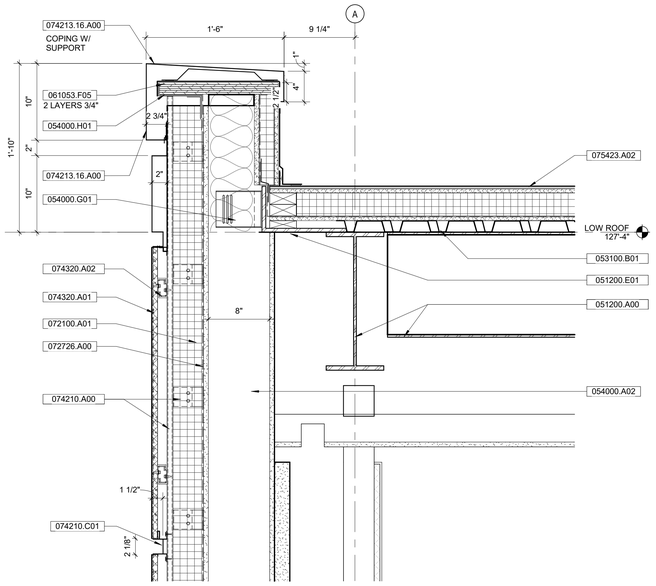
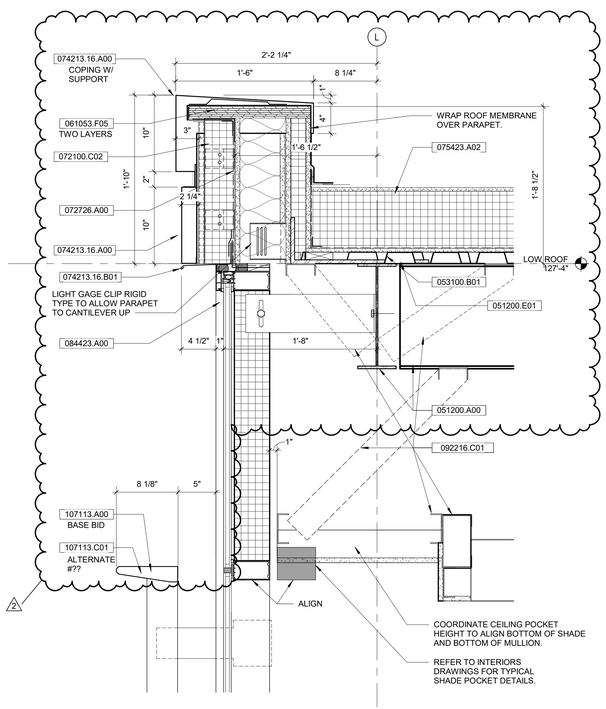


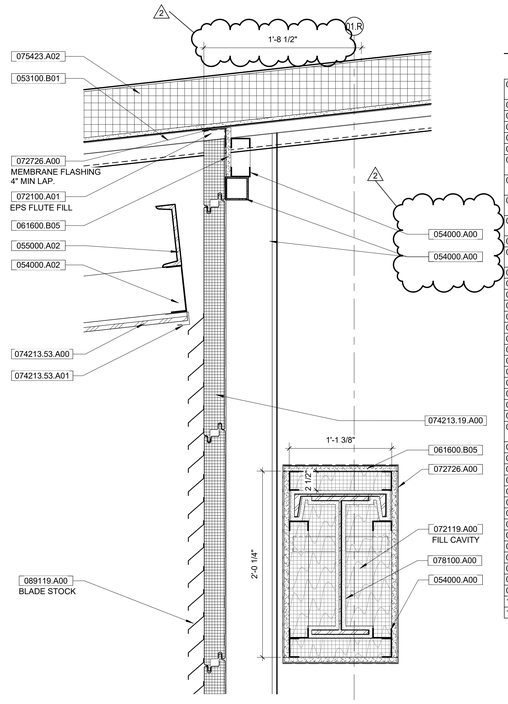
D1 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"



D4 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"



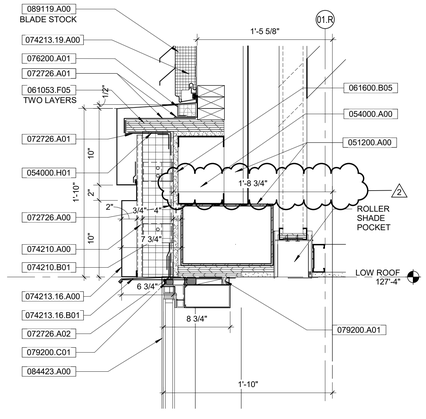
D6 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
051200.A00	STRUCTURAL STEEL FRAMING
051200.E01	STRUCTURAL STEEL FRAMING, BENT PLATE
053100.B01	ROOF DECK
054000.A00	COLD-FORMED METAL FRAMING
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.G01	COLD-FORMED METAL FRAMING - VERTICAL SLIDE CLIP
054000.H01	COLD-FORMED METAL FRAMING - FRAMING ANGLE
055000.A02	METAL FABRICATIONS, STEEL FRAMING, REFERENCE STRUCTURAL
061053.F05	MISCELLANEOUS ROUGH CARPENTRY, PLYWOOD, 3/4"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072100.C02	MINERAL-WOOL BOARD
072119.A00	FOAMED-IN-PLACE INSULATION
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
072726.A01	MEMBRANE FLASHING
072726.A02	WRAP MEMBRANE FLASHING INTO OPENING
074210.A00	RAINSCREEN ATTACHMENT SYSTEM
074210.B01	RAINSCREEN ATTACHMENT CLIP
074210.C01	EXTRUDED ALUMINUM REVEAL TRIM
074213.16.A00	METAL PLATE WALL PANELS
074213.16.B01	METAL PLATE WALL PANELS, TRIM
074213.19.A00	INSULATED METAL WALL PANELS
074213.53.A00	METAL SOFFIT PANELS
074213.53.A01	METAL SOFFIT PANEL TRIM
074293.A00	SOFFIT PANELS
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
074320.A02	CONCEALED FASTENER PANEL RAIL
075423.A00	TPO ROOFING
075423.A02	TPO ROOFING SYSTEM
076200.A01	SHEET METAL FLASHING AND TRIM
077100.B01	GRAVEL STOP, MANUFACTURED
078100.A00	APPLIED FIREPROOFING
078443.A00	JOINT FIRESTOPPING
079200.A01	SEALANT
079200.C01	BACKER ROD AND SEALANT
084313.A00	ALUMINUM-FRAMED STOREFRONTS
084423.A00	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS
089119.A00	FIXED LOUVERS
092216.C01	3 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092900.B04	GYPSUM BOARD, 5/8"
107113.A00	EXERIOR SUN CONTROL DEVICES
107113.C01	TERRA COTTA SUNSHADE SYSTEM

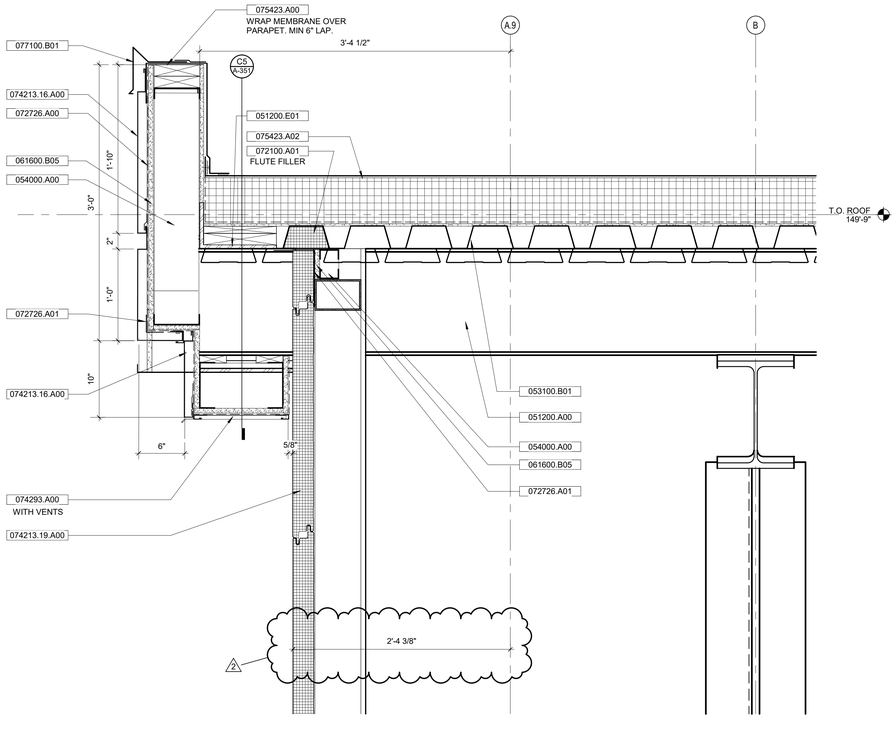


C6 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"

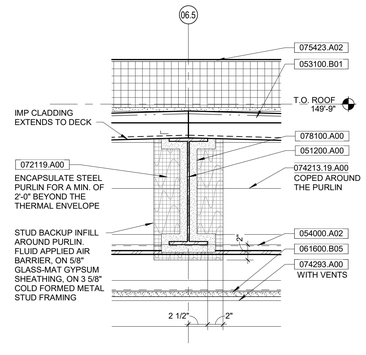
KEYNOTES (ACTION/GENERAL)

00-A1



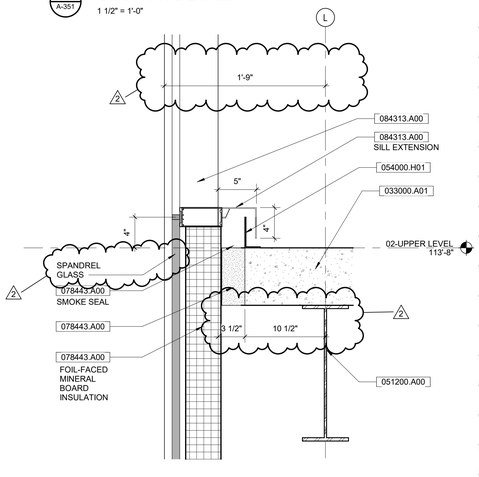
A1 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"



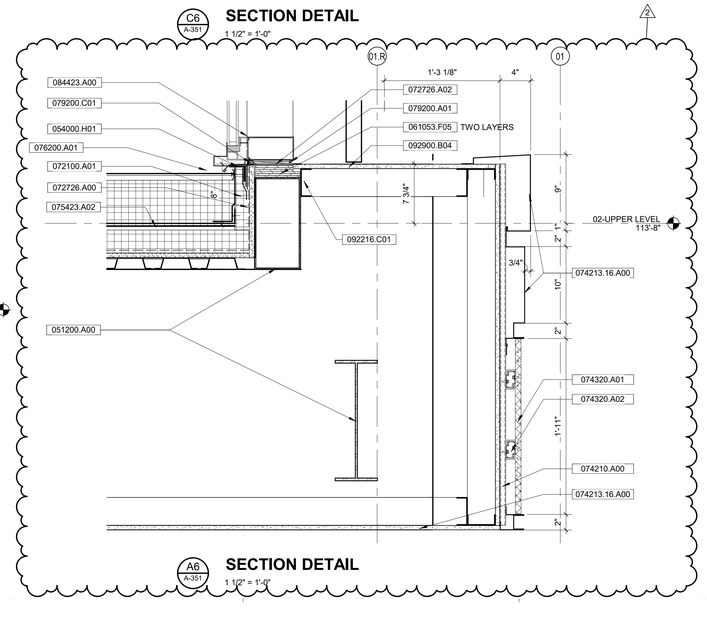
C5 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"



A4 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"



A6 A-351 **SECTION DETAIL**

1 1/2" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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Mechanical / Electrical
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8250 HAVERSTICK ROAD
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Plumbing Engineer
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LAKEWOOD, CO 80235
972-934-3700

Civil Engineer
AMERICAN STRUCTUREPOINT, INC.
9025 RIVER ROAD
SUITE 200
INDIANAPOLIS, IN 46240
317-547-5580

Food Service Consultant
CINILITTLE
3405 NW 9TH AVENUE #1202
FORT LAUDERDALE, FL 33309
954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
EXTERIOR DETAILS

SHEET NUMBER
A-351

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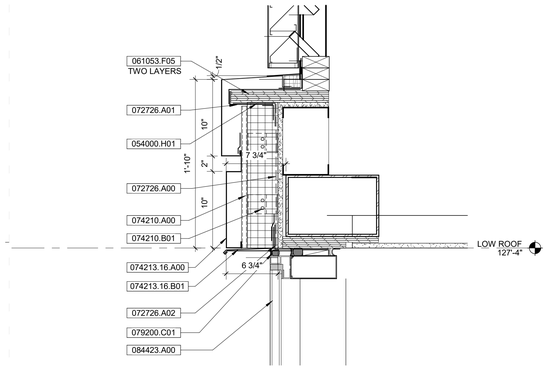
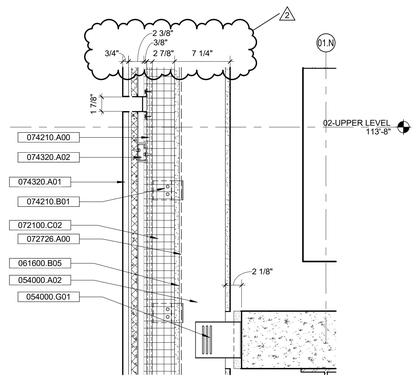


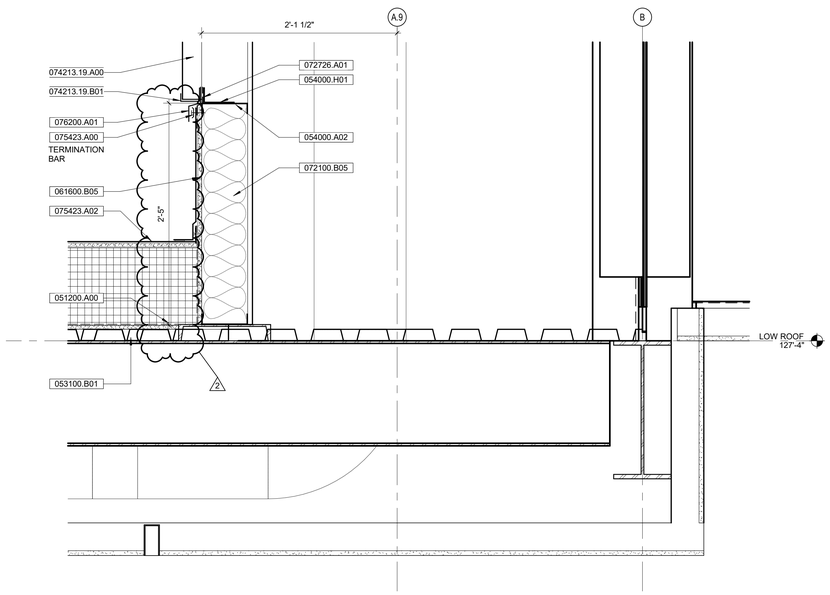
F1 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"



F3 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"



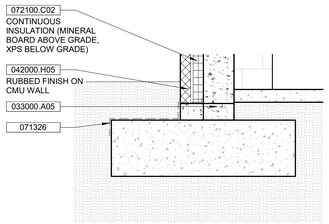
KEYNOTES (SPEC BASED)

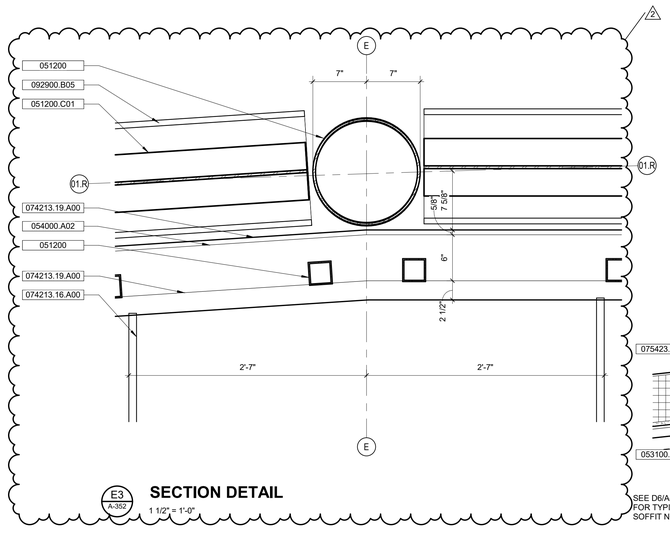
061600.A00

033000.A02	CAST-IN-PLACE CONCRETE SLAB
033000.A03	CAST-IN-PLACE CONCRETE FOOTING
033000.A05	CAST-IN-PLACE CONCRETE WALL
042000.H05	CONCRETE MASONRY UNIT, 4"
051200	STRUCTURAL STEEL FRAMING (VERIFY NUMBERING WITH CONSULTANTS, AS REQUIRED)
051200.A00	STRUCTURAL STEEL FRAMING
051200.B01	STRUCTURAL STEEL FRAMING, COLUMN
051200.C01	STRUCTURAL STEEL FRAMING, BEAM
051200.E01	STRUCTURAL STEEL FRAMING, BENT PLATE
053100.B01	ROOF DECK
054000.A00	COLD-FORMED METAL FRAMING
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.F01	COLD-FORMED METAL FRAMING - DEFLECTION TRACK
054000.G01	COLD-FORMED METAL FRAMING - VERTICAL SLIDE CLIP
054000.H01	COLD-FORMED METAL FRAMING - FRAMING ANGLE
061053.F05	MISCELLANEOUS ROUGH CARPENTRY, PLYWOOD, 3/4"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
071326	SELF-ADHERING SHEET WATERPROOFING
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072100.B05	GLASS-FIBER BLANKET, R-19 (BATT)
072100.C02	MINERAL-WOOL BOARD
072726.A00	FLUID-APPLIED MEMBRANE AIR BARRIER
072726.A01	MEMBRANE FLASHING
072726.A02	WRAP MEMBRANE FLASHING INTO OPENING
074210.A00	RAINSCREEN ATTACHMENT SYSTEM
074210.B01	RAINSCREEN ATTACHMENT CLIP
074213.16.A00	METAL PLATE WALL PANELS
074213.16.B01	METAL PLATE WALL PANELS, TRIM
074213.19.A00	INSULATED METAL WALL PANELS
074213.19.B01	INSULATED METAL WALL PANELS, TRIM
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
074320.A02	CONCEALED FASTENER PANEL RAIL
074616.B01	ALUMINUM SOFFIT
075423.A00	TPO ROOFING
075423.A02	TPO ROOFING SYSTEM
076200.A01	SHEET METAL FLASHING AND TRIM
077100.B01	GRAVEL STOP, MANUFACTURED
079200.C01	BACKER ROD AND SEALANT
084113	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084423.A00	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS
089119.A00	FIXED LOUVERS
092900.B05	GYPSUM BOARD, 3/4"
330000.B02	UNDERSLAB DRAINAGE

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED



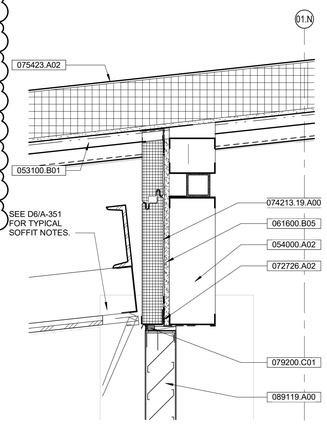


E1 A-352 **SECTION DETAIL**

1/2" = 1'-0"

E3 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"

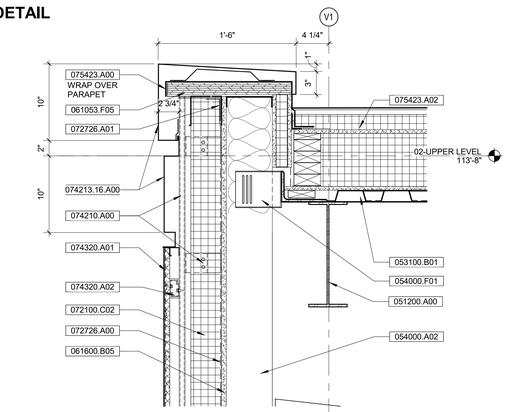


C4 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"

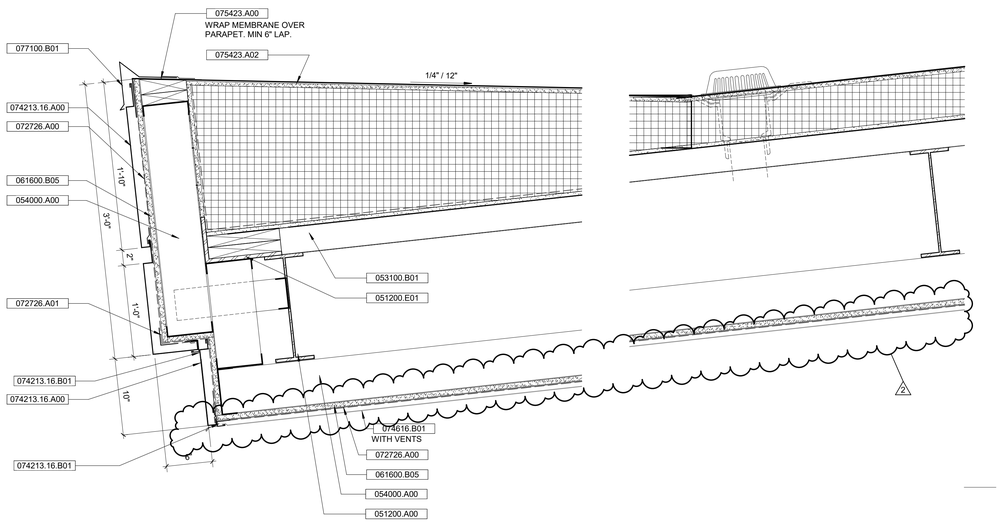
E5 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"



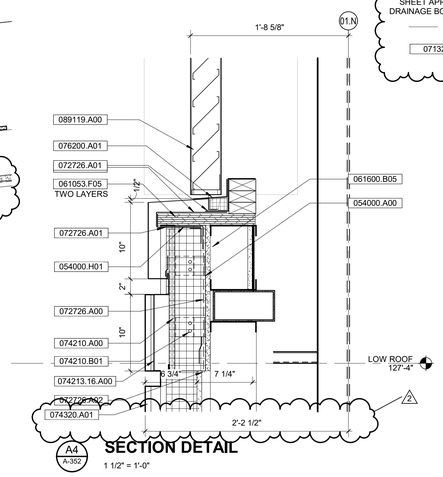
C6 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"



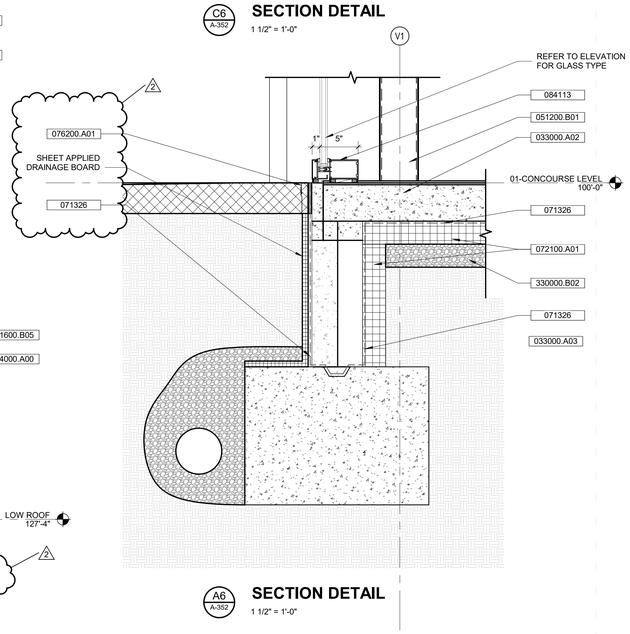
A1 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"



A4 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"



A6 A-352 **SECTION DETAIL**

1 1/2" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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PROJECT NO. 23112.000

SHEET TITLE
EXTERIOR DETAILS

SHEET NUMBER
A-352

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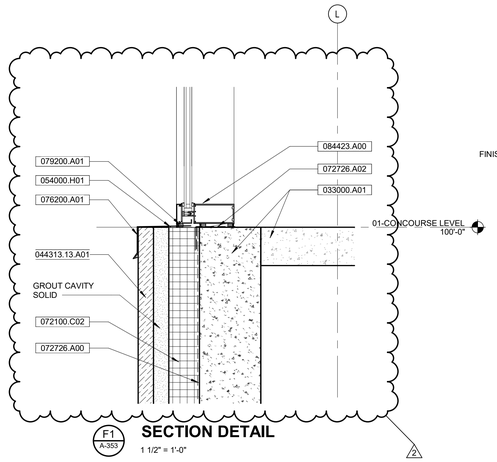
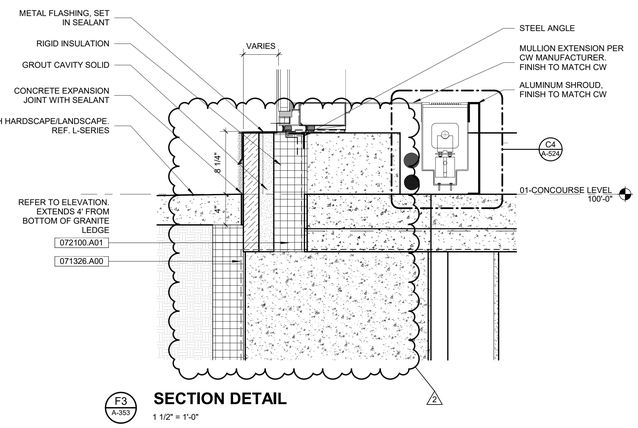


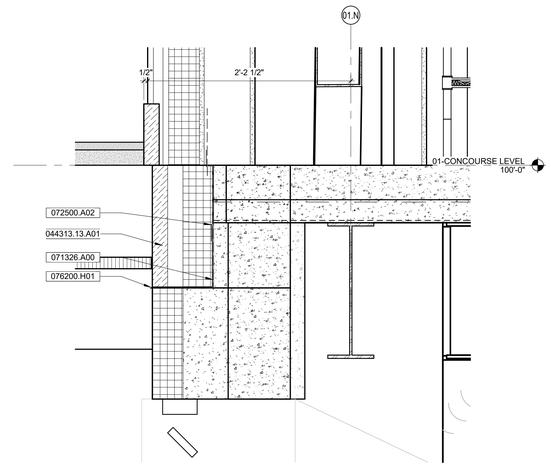
F1 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



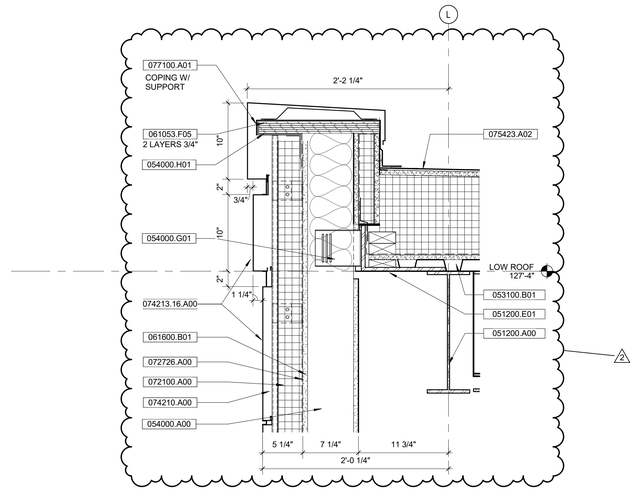
F3 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



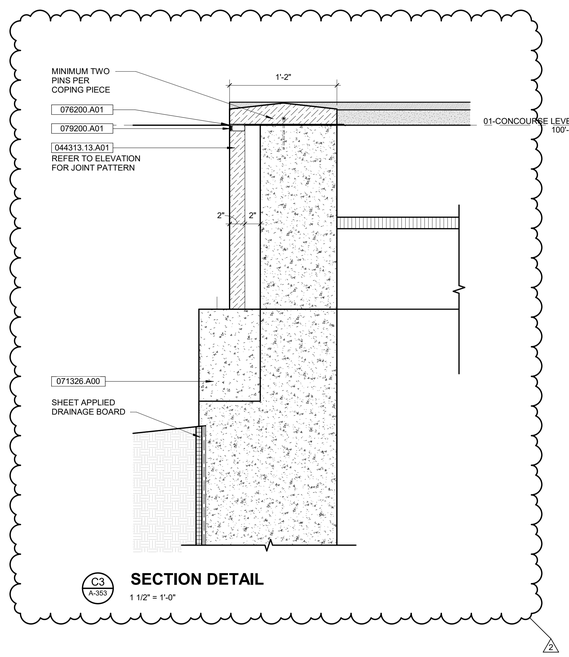
E6 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



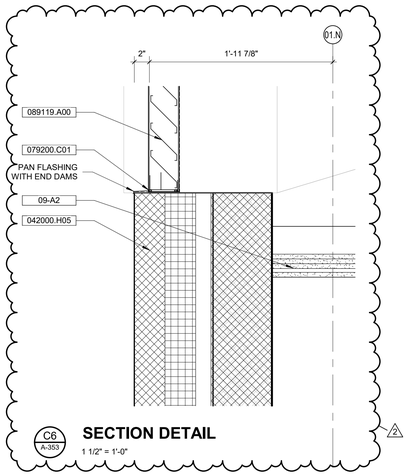
C1 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



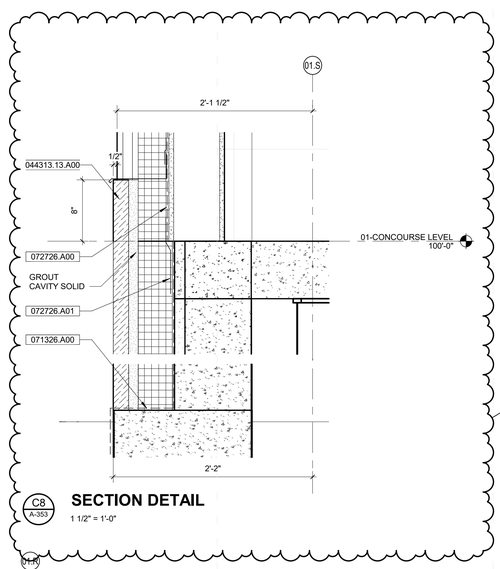
C3 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



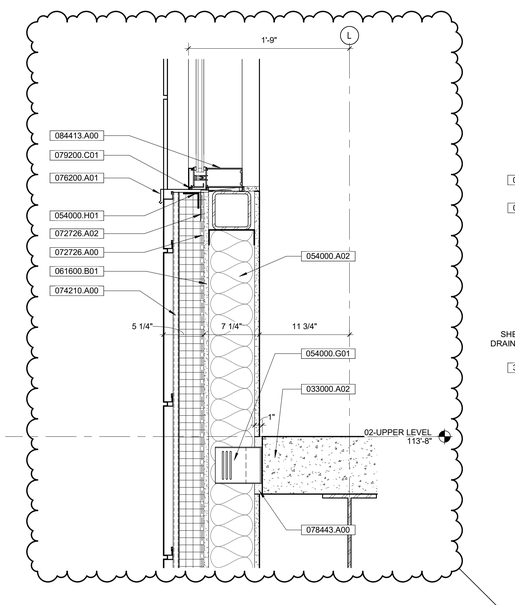
C6 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



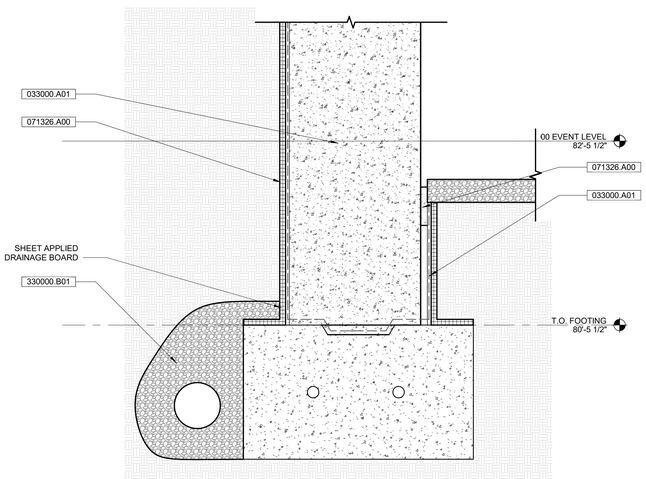
C8 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



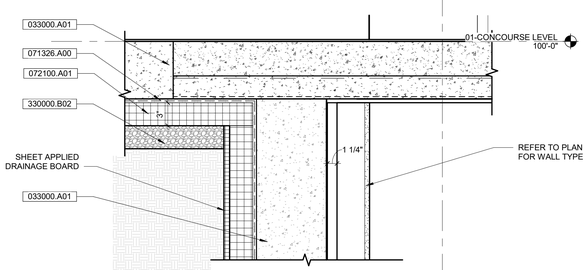
A1 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



A3 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"



A6 A-353 **SECTION DETAIL**

1 1/2" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
033000.A02	CAST-IN-PLACE CONCRETE SLAB
042000.H05	CONCRETE MASONRY UNIT, 4"
044313.13.A00	ANCHORED STONE MASONRY VENEER
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
051200.A00	STRUCTURAL STEEL FRAMING
051200.E01	STRUCTURAL STEEL FRAMING, BENT PLATE
053100.B01	ROOF DECK
054000.A00	COLD-FORMED METAL FRAMING
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.G01	COLD-FORMED METAL FRAMING - VERTICAL SLIDE CLIP
054000.H01	COLD-FORMED METAL FRAMING - FRAMING ANGLE
061053.F05	MISCELLANEOUS ROUGH CARPENTRY, PLYWOOD, 3/4"
061600.B01	WALL SHEATHING
071326.A00	SELF-ADHERING SHEET WATERPROOFING
072100.A00	THERMAL INSULATION
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072100.C02	MINERAL-WOOL BOARD
072500.A02	BUILDING WRAP
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
072726.A01	MEMBRANE FLASHING
072726.A02	WRAP MEMBRANE FLASHING INTO OPENING
074210.A00	RAINSCREEN ATTACHMENT SYSTEM
074213.16.A00	METAL PLATE WALL PANELS
075423.A02	TPO ROOFING SYSTEM
076200.A01	SHEET METAL FLASHING AND TRIM
076200.H01	THROUGH-WALL FLASHING
077100.A01	COPING, METAL, MANUFACTURED
078443.A00	JOINT FIRESTOPPING
079200.A01	SEALANT
079200.C01	BACKER ROD AND SEALANT
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
084423.A00	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS
089119.A00	FIXED LOUVERS
330000.B01	SUBSURFACE DRAINAGE
330000.B02	UNDERSLAB DRAINAGE

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

IN128 - JAMES T. MORRIS ARENA

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Code Consultant
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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. PRINCIPAL REVIEWER No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE		
1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
EXTERIOR DETAILS

SHEET NUMBER
A-353

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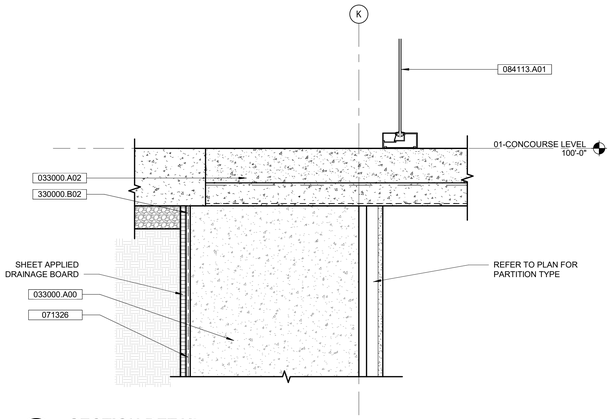
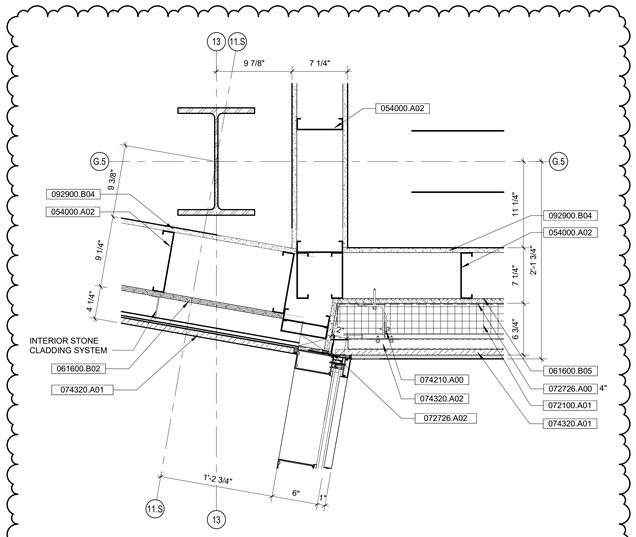


F1 A-354 **SECTION DETAIL**

1 1/2" = 1'-0"



F4 A-354 **PLAN DETAIL**

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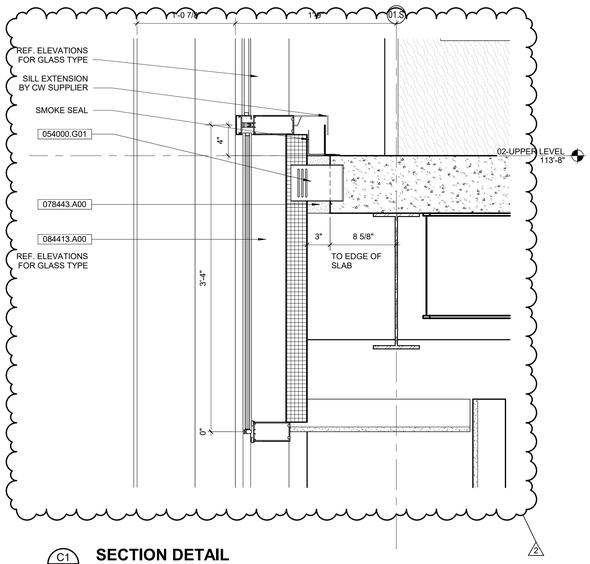

C1 A-354 **SECTION DETAIL**

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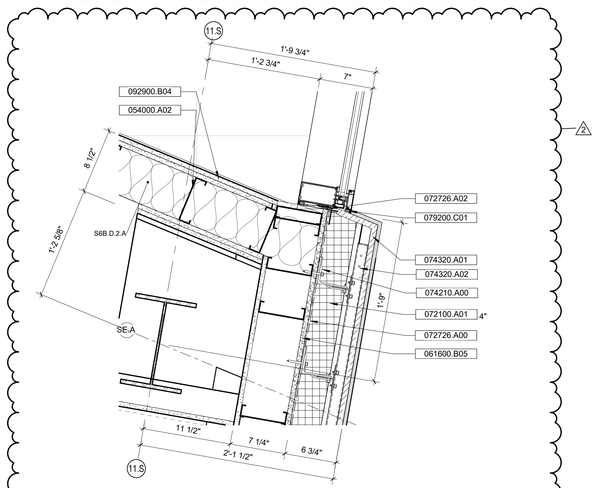

C4 A-354 **PLAN DETAIL**

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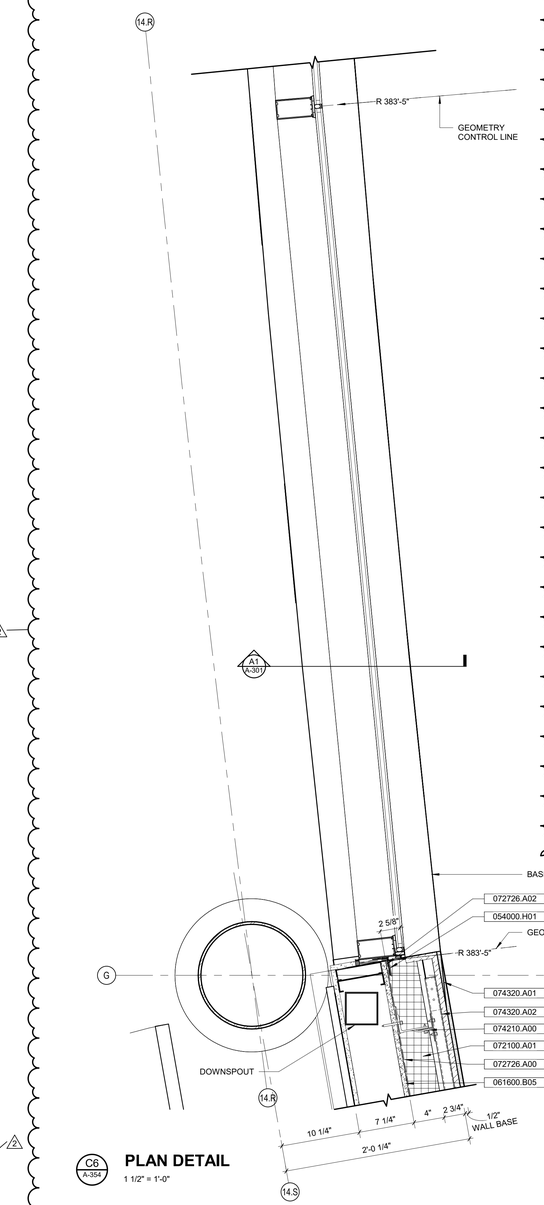

C6 A-354 **PLAN DETAIL**

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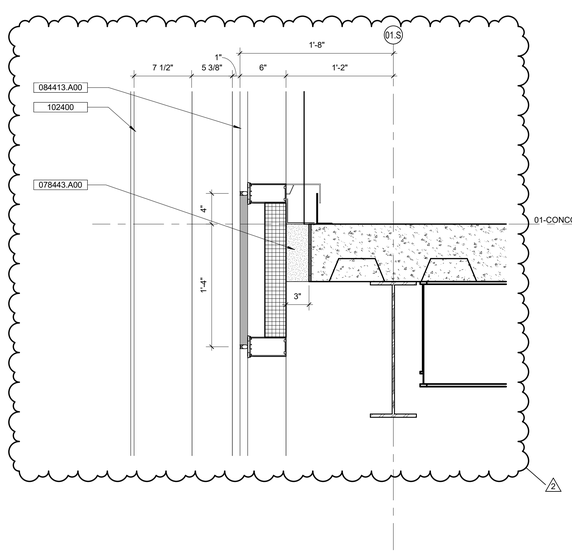
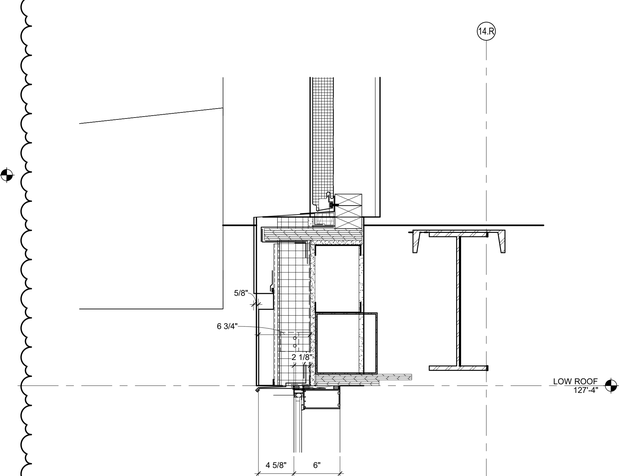


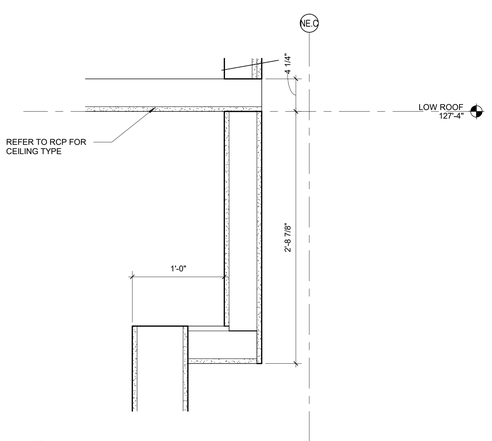
A1 A-354 **SECTION DETAIL**

1 1/2" = 1'-0"



A4 A-354 **SECTION DETAIL**

1 1/2" = 1'-0"



A6 A-354 **SECTION DETAIL**

1 1/2" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A00	CAST-IN-PLACE CONCRETE
033000.A02	CAST-IN-PLACE CONCRETE SLAB
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.G01	COLD-FORMED METAL FRAMING - VERTICAL SLIDE CLIP
054000.H01	COLD-FORMED METAL FRAMING - FRAMING ANGLE
061600.B02	WALL SHEATHING, PLYWOOD, 5/8"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
071326	SELF-ADHERING SHEET WATERPROOFING
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
072726.A02	WRAP MEMBRANE FLASHING INTO OPENING
074210.A00	RAINSCREEN ATTACHMENT SYSTEM
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
074320.A02	CONCEALED FASTENER PANEL RAIL
078443.A00	JOINT FIRESTOPPING
079200.C01	BACKER ROD AND SEALANT
084113.A01	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
092900.B04	GYPSUM BOARD, 5/8"
102400	ARCHITECTURAL SCREEN
330000.B02	UNDERSLAB DRAINAGE

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
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SEAL | DATE 01/27/25

WILLIAM A. BROWNE JR. REGISTERED No. A R00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

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EXTERIOR DETAILS

SHEET NUMBER
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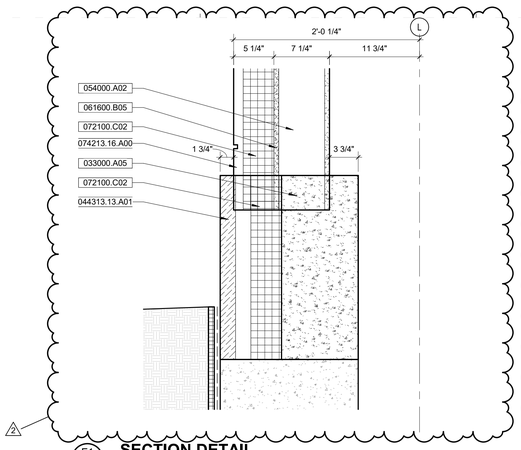
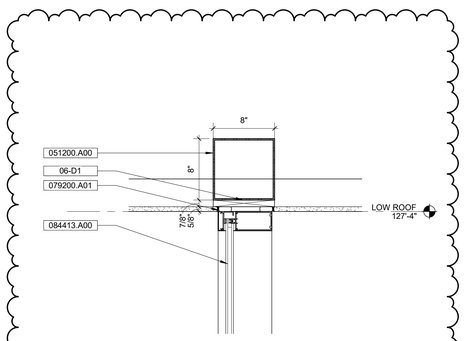


F1 A-355 **SECTION DETAIL**
1 1/2" = 1'-0"



F3 A-355 **SECTION DETAIL**
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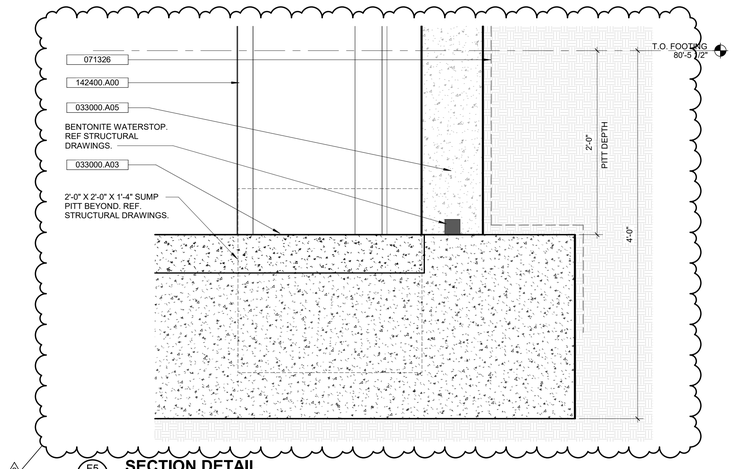

F5 A-355 **SECTION DETAIL**
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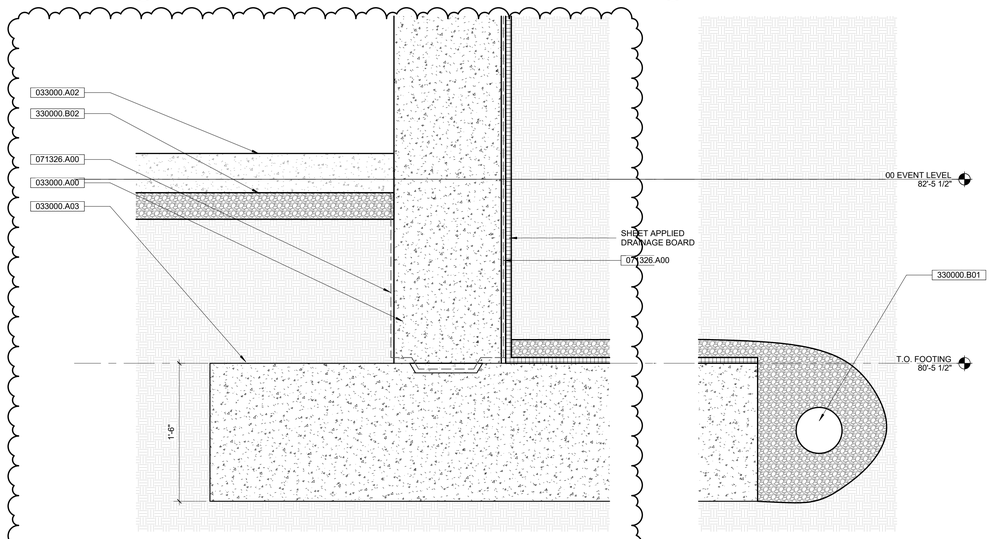
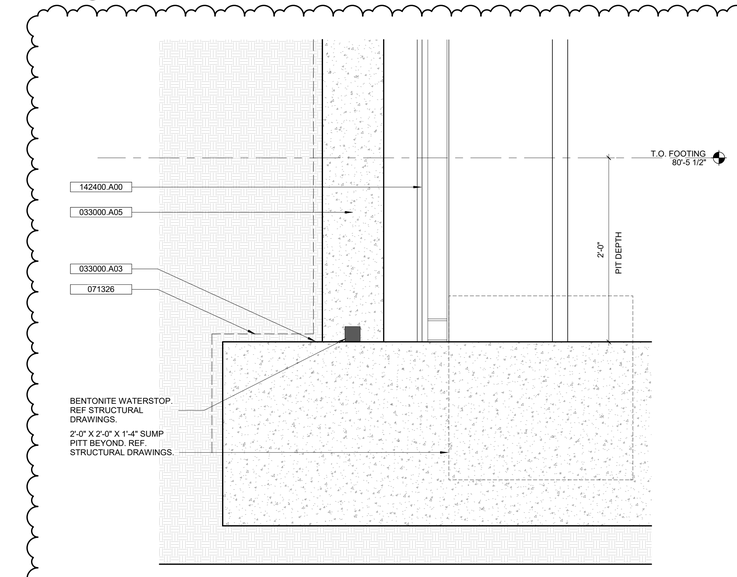
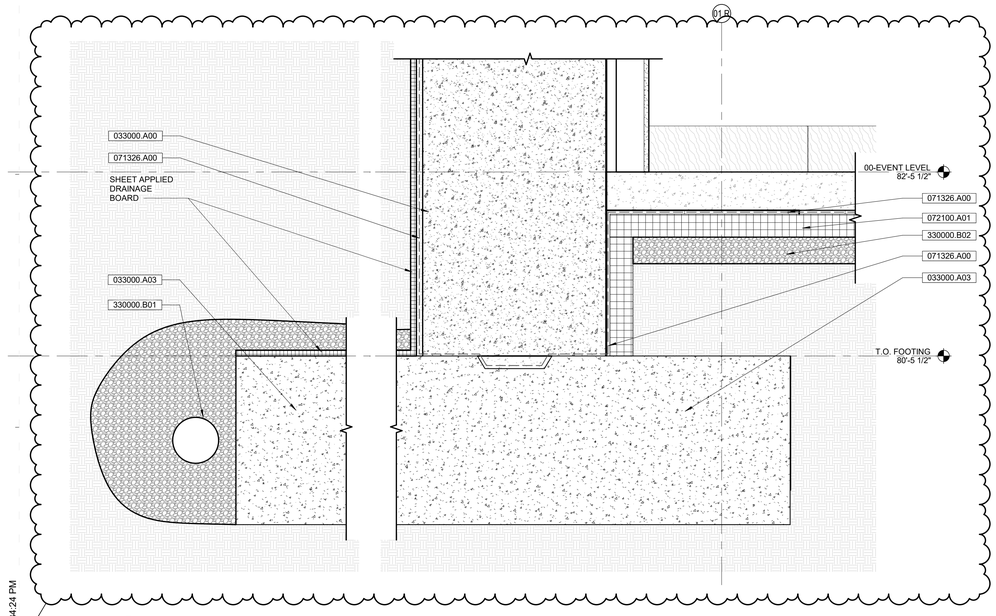


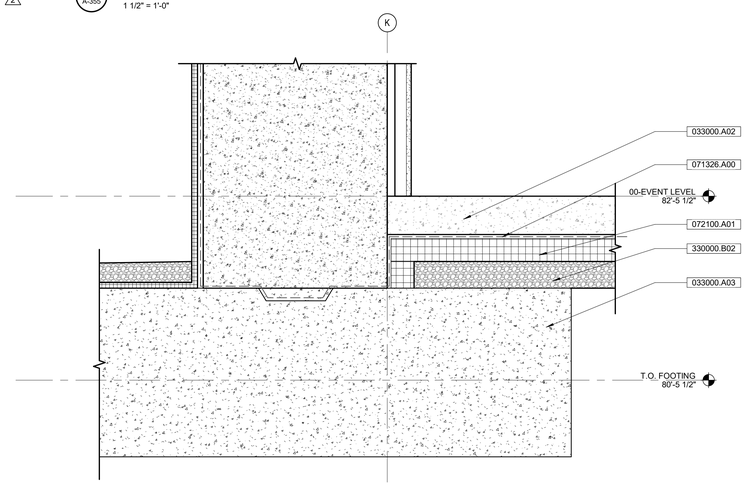
C1 A-355 **SECTION DETAIL**
1 1/2" = 1'-0"



C5 A-355 **SECTION DETAIL - ELEVATOR PIT**
1 1/2" = 1'-0"



A1 A-355 **SECTION DETAIL**
1 1/2" = 1'-0"



A5 A-355 **SECTION DETAIL**
1 1/2" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A00	CAST-IN-PLACE CONCRETE
033000.A02	CAST-IN-PLACE CONCRETE SLAB
033000.A03	CAST-IN-PLACE CONCRETE FOOTING
033000.A05	CAST-IN-PLACE CONCRETE WALL
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
051200.A00	STRUCTURAL STEEL FRAMING
054000.A02	COLD-FORMED METAL FRAMING - 6"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
071326	SELF-ADHERING SHEET WATERPROOFING
071326.A00	SELF-ADHERING SHEET WATERPROOFING
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072100.C02	MINERAL-WOOL BOARD
074213.16.A00	METAL PLATE WALL PANELS
079200.A01	SEALANT
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
142400.A00	HYDRAULIC ELEVATOR
330000.B01	SUBSURFACE DRAINAGE
330000.B02	UNDERSLAB DRAINAGE

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

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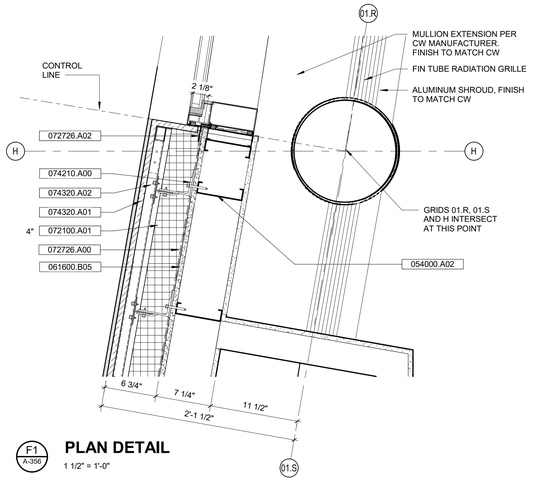
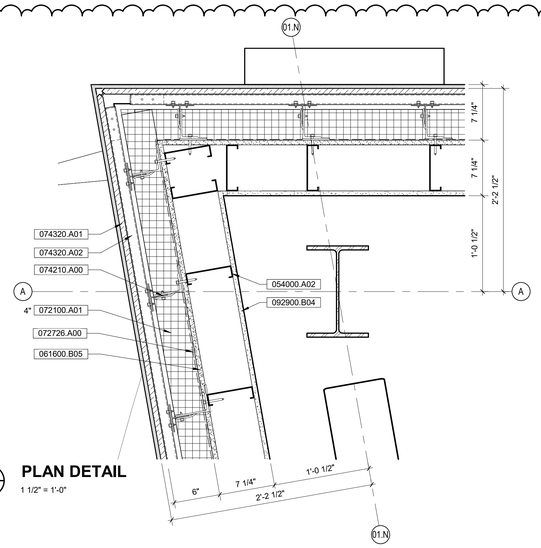
1/27/2025 12:34:24 PM



F1 A-356 **PLAN DETAIL**
1 1/2" = 1'-0"



F3 A-356 **PLAN DETAIL**
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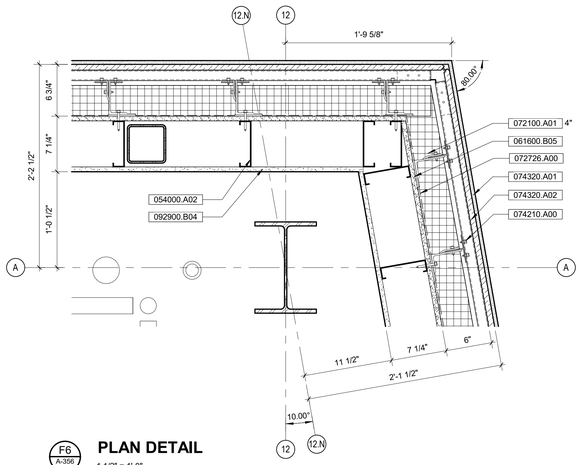


F6 A-356 **PLAN DETAIL**
1 1/2" = 1'-0"

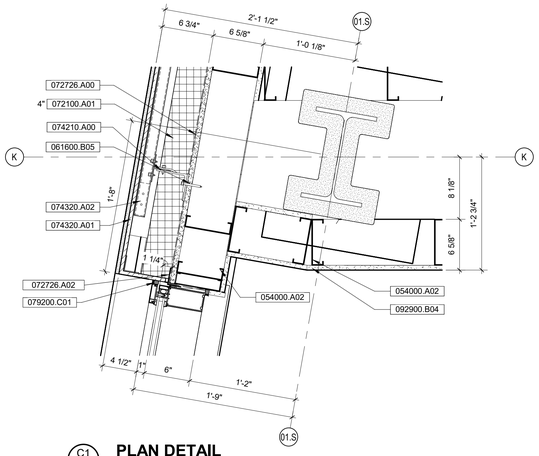
KEYNOTES (SPEC BASED)

061600.A00

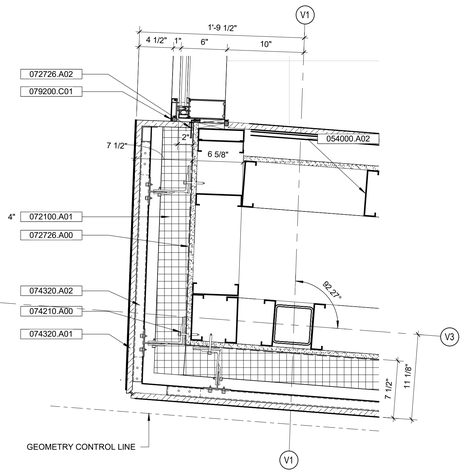
054000.A01	COLD-FORMED METAL FRAMING - 3 5/8"
054000.A02	COLD-FORMED METAL FRAMING - 6"
061053.B01	WOOD BLOCKING
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
072100.A01	EXTRUDED POLYSTYRENE BOARD INSULATION (RIGID)
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
072726.A02	WRAP MEMBRANE FLASHING INTO OPENING
074210.A00	RAINSCREEN ATTACHMENT SYSTEM
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
074320.A02	CONCEALED FASTENER PANEL RAIL
079200.C01	BACKER ROD AND SEALANT
092900.B04	GYPSUM BOARD, 5/8"
107113.B03	FIXED SUN SCREEN, VERTICAL

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED



C1 A-356 **PLAN DETAIL**
1 1/2" = 1'-0"



D4 A-356 **PLAN DETAIL**
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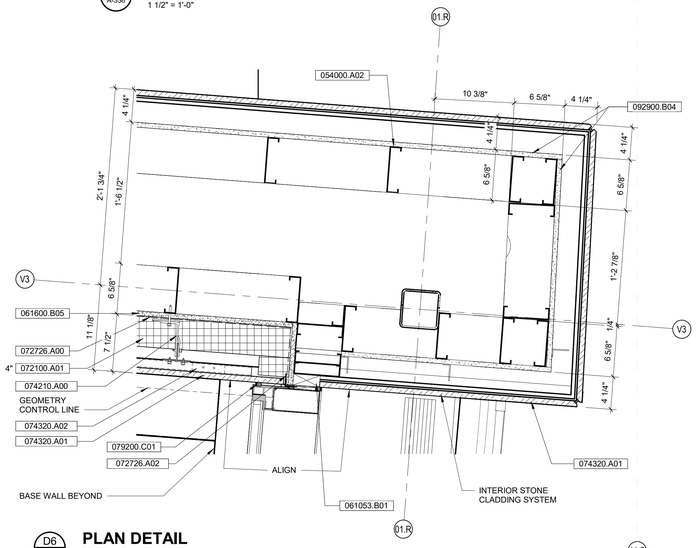

D6 A-356 **PLAN DETAIL**
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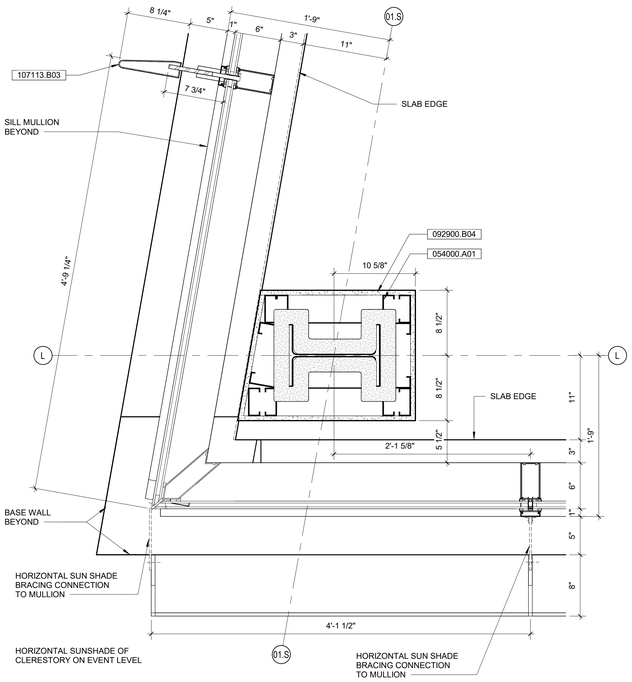
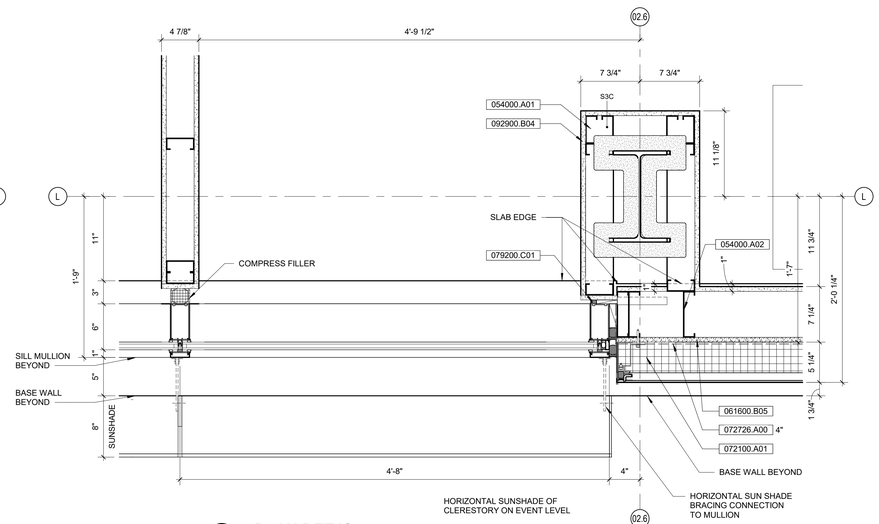


A1 A-356 **PLAN DETAIL**
1 1/2" = 1'-0"



A4 A-356 **PLAN DETAIL**
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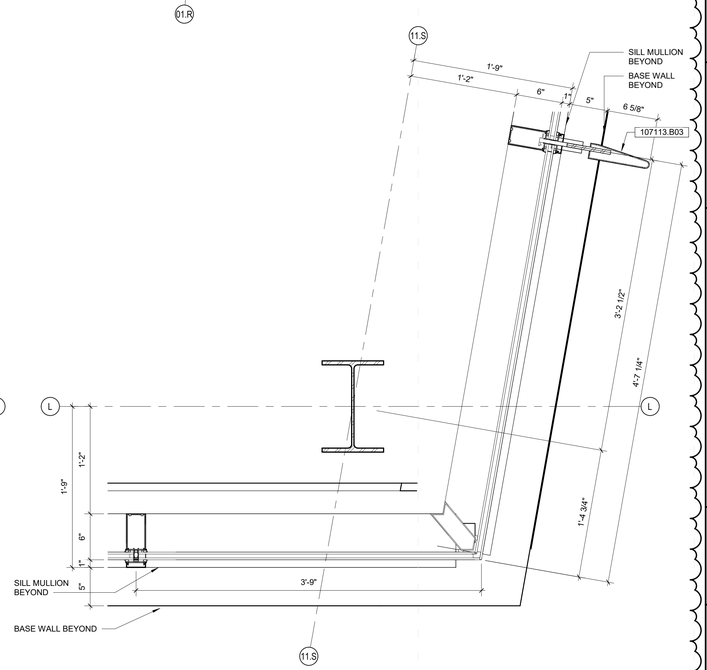

A7 A-356 **PLAN DETAIL**
1 1/2" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
EXTERIOR DETAILS

SHEET NUMBER
A-356

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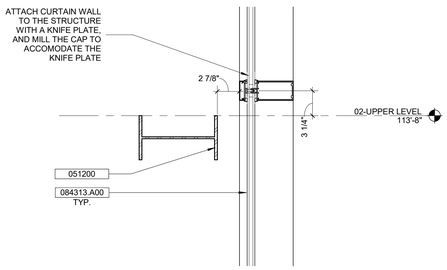
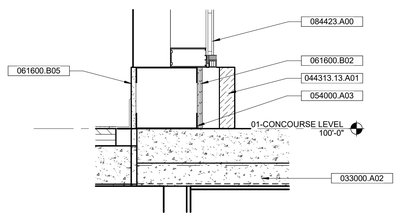


F1 / A-357 **SECTION DETAIL**
1/2" = 1'-0"



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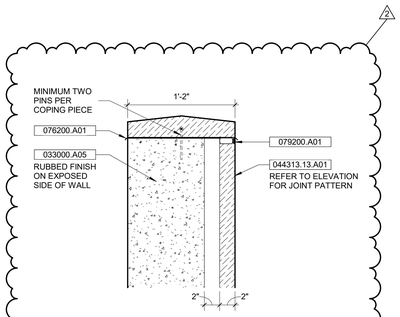

F4 / A-357 **SECTION DETAIL**
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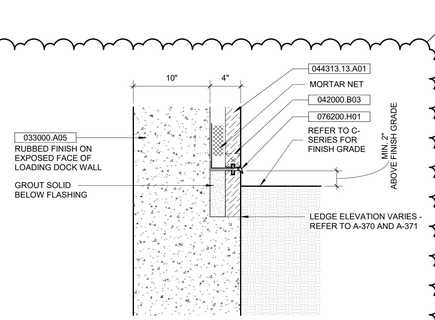
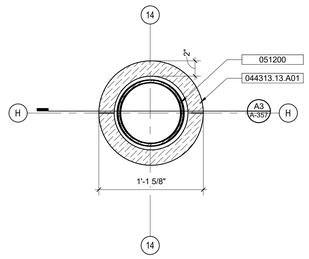
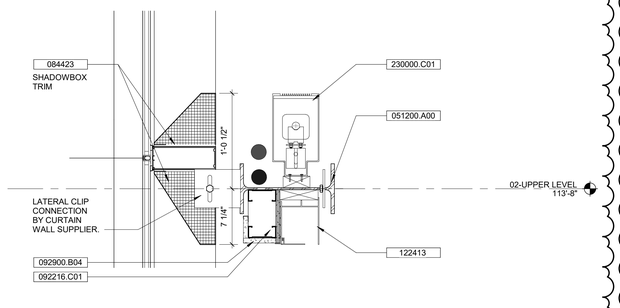


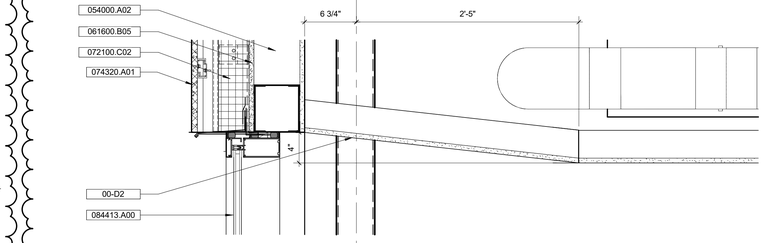
F6 / A-357 **SECTION DETAIL**
1 1/2" = 1'-0"



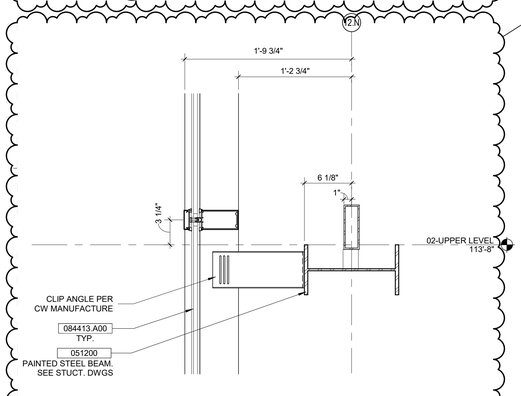
D1 / A-357 **PLAN DETAIL**
1 1/2" = 1'-0"



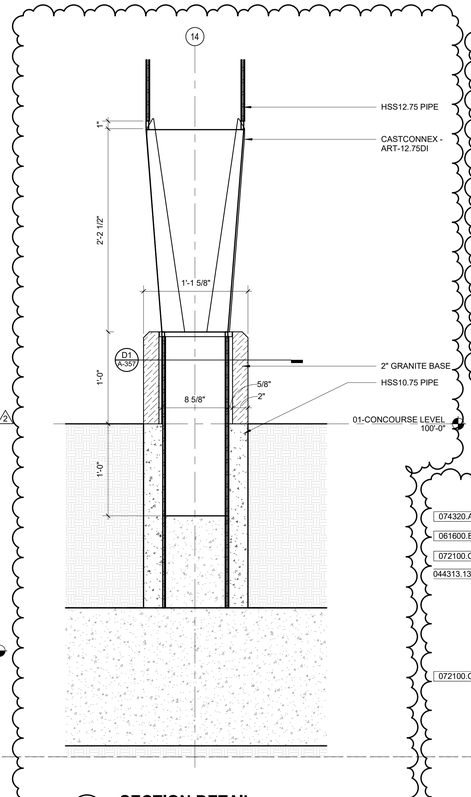
D3 / A-357 **WS - WEST THRU CURTAINWALL - Callout 1**
1 1/2" = 1'-0"



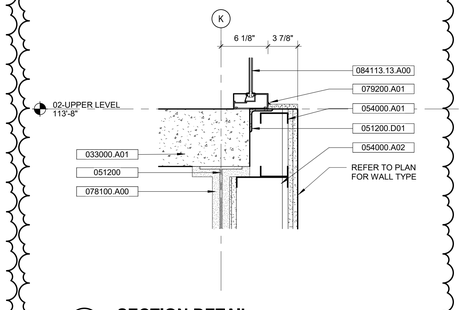
D5 / A-357 **SECDTL - CEILING/HEAD DETAIL**
1 1/2" = 1'-0"



C1 / A-357 **SECTION DETAIL**
1 1/2" = 1'-0"



A3 / A-357 **SECTION DETAIL**
1 1/2" = 1'-0"



C4 / A-357 **SECTION DETAIL**
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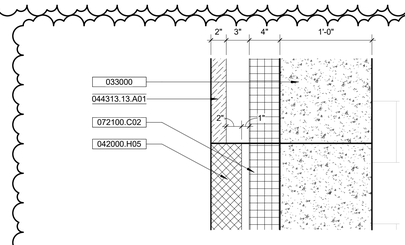
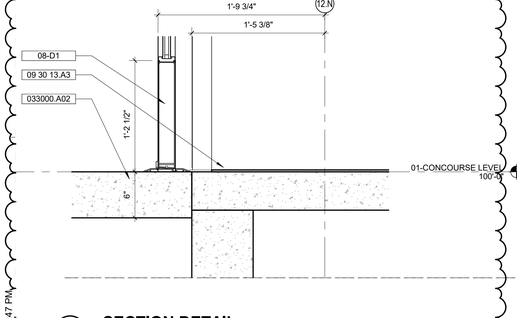
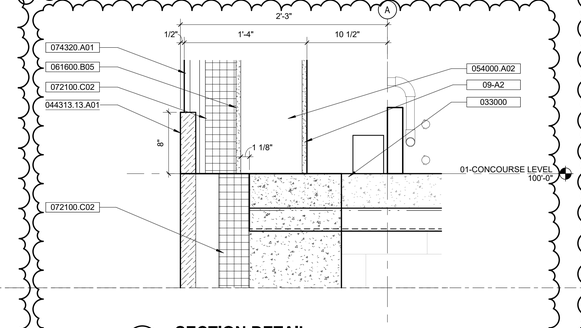


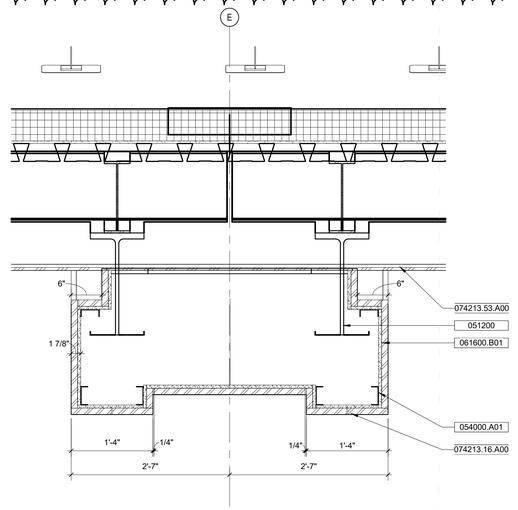
C6 / A-357 **SECDTL - NORTH GRANITE MEETING CMU**
1 1/2" = 1'-0"



A1 / A-357 **SECTION DETAIL**
1 1/2" = 1'-0"



A4 / A-357 **SECTION DETAIL**
1 1/2" = 1'-0"



A6 / A-357 **SECTION DETAIL**
1" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

09 30 13.A3	
033000	CAST-IN-PLACE CONCRETE (VERIFY NUMBERING WITH CONSULTANT)
033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
033000.A02	CAST-IN-PLACE CONCRETE SLAB
033000.A05	CAST-IN-PLACE CONCRETE WALL
042000.B03	MASONRY VENEER, WEEP/VENT
042000.H05	CONCRETE MASONRY UNIT, 4"
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
051200	STRUCTURAL STEEL FRAMING (VERIFY NUMBERING WITH CONSULTANTS, AS REQUIRED)
051200.A00	STRUCTURAL STEEL FRAMING
051200.D01	STRUCTURAL STEEL FRAMING, ANGLE
054000.A01	COLD-FORMED METAL FRAMING - 3 5/8"
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.A03	COLD-FORMED METAL FRAMING - 8"
061600.B01	WALL SHEATHING
061600.B02	WALL SHEATHING, PLYWOOD, 5/8"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
072100.C02	MINERAL-WOOL BOARD
074213.16.A00	METAL PLATE WALL PANELS
074213.53.A00	METAL SOFFIT PANELS
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
076200.A01	SHEET METAL FLASHING AND TRIM
076200.H01	THROUGH-WALL FLASHING
078100.A00	APPLIED FIREPROOFING
079200.A01	SEALANT
084113.13.A00	FIRE-RATED ALUMINUM-FRAMED ENTANCES AND STOREFRONTS
084313.A00	ALUMINUM-FRAMED STOREFRONTS
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
084423	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS
084423.A00	STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS
092216.C01	3 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092900.B04	GYPSUM BOARD, 5/8"
230000.C01	FIN-TUBE RADIATION, REFERENCE MECHANICAL DRAWINGS

GLAZING SCHEDULE

GL-1	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-2	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-3	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-5	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-1	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-2	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-3	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

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PROJECT NO. 23112.000

SHEET TITLE
EXTERIOR DETAILS

SHEET NUMBER
A-357

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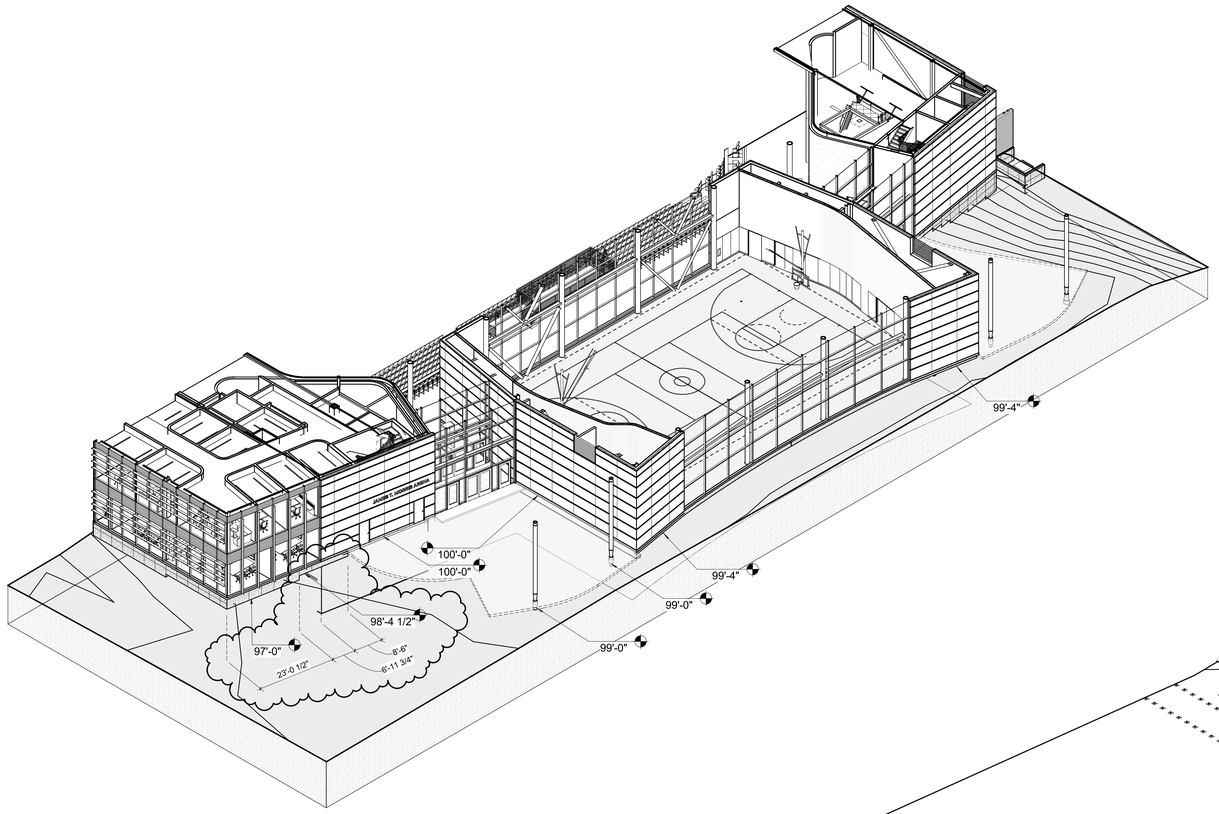
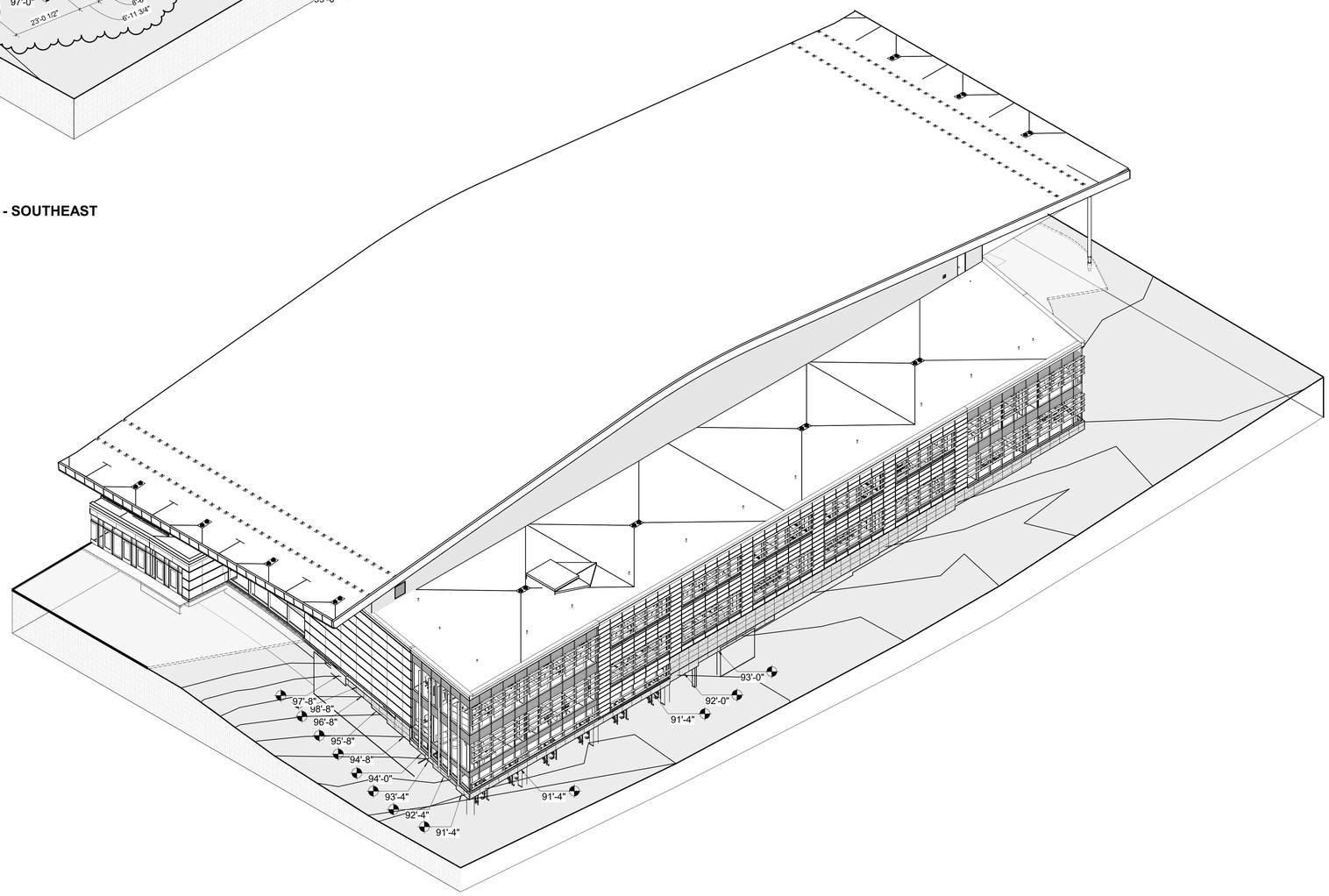
GENERAL EXT. GRANITE LEDGE NOTES

- GENERAL CONTRACTOR TO ORGANIZE A PRE-CONSTRUCTION MEETING BETWEEN ARCHITECTURE, STRUCTURAL, CIVIL, AND APPROPRIATE SUBCONTRACTORS BEFORE FINALIZING DESIGN FOR GRANITE LEDGES
- REFER TO C-SERIES FOR FINAL EXTERIOR GRADING



D1 / A-370 **GRANITE LEDGE DIAGRAM - SOUTHEAST**



A1 / A-370 **GRANITE LEDGE DIAGRAM - SOUTHWEST**

1/24/2025 3:54:01 PM

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Indianapolis, IN 46202

IU Project NO. 20240127

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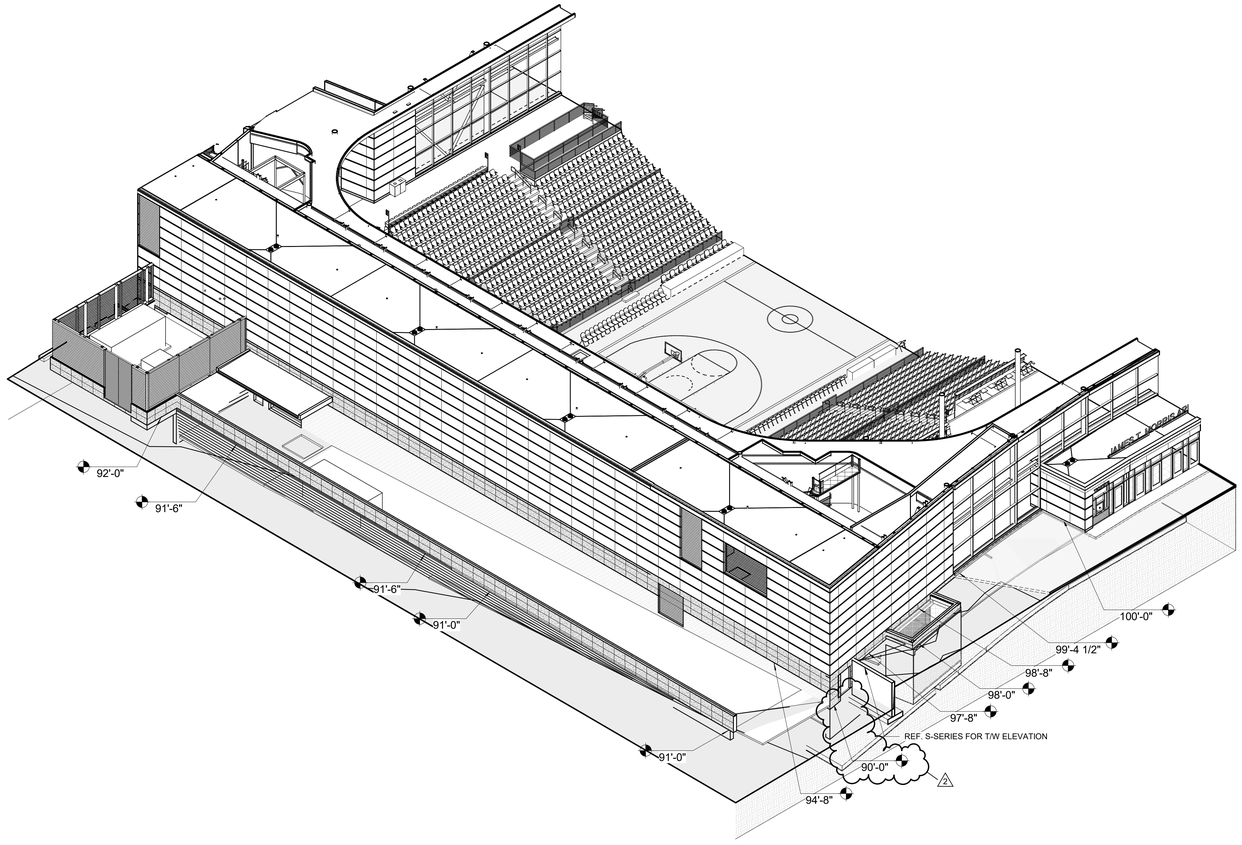
PROJECT NO. 23112.000

SHEET TITLE
EXTERIOR 3D DIAGRAMS

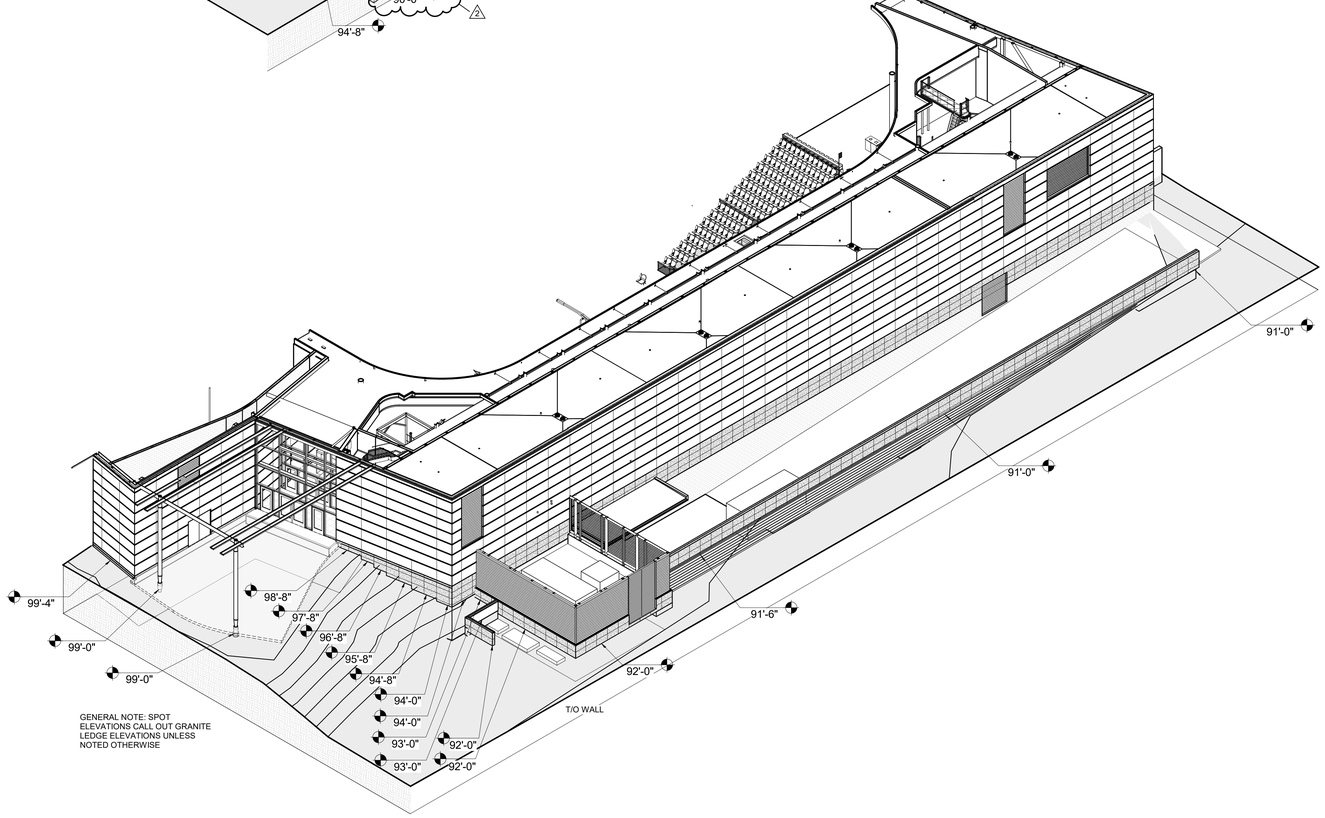
SHEET NUMBER
A-370

GENERAL EXT. GRANITE LEDGE NOTES

- GENERAL CONTRACTOR TO ORGANIZE A PRE-CONSTRUCTION MEETING BETWEEN ARCHITECTURE, STRUCTURAL, CIVIL, AND APPROPRIATE SUBCONTRACTORS BEFORE FINALIZING DESIGN FOR GRANITE LEDGES
- REFER TO C-SERIES FOR FINAL EXTERIOR GRADING



D1 A-371 **GRANITE LEDGE DIAGRAM - NORTHWEST**



A3 A-371 **GRANITE LEDGE DIAGRAM - NORTHEAST**

1/24/2025 3:54:19 PM

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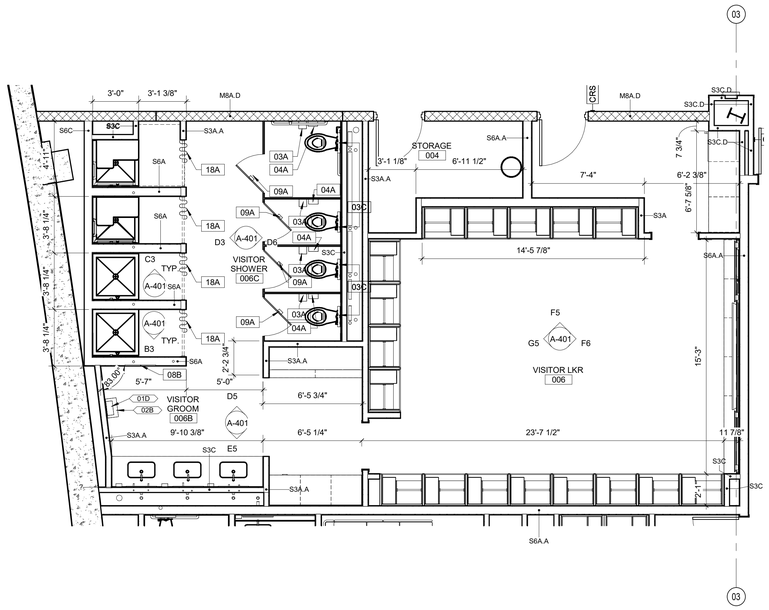
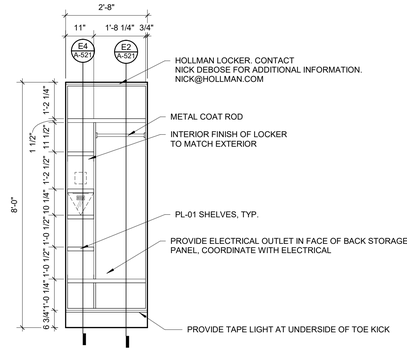
SHEET TITLE
EXTERIOR 3D DIAGRAMS

SHEET NUMBER
A-371



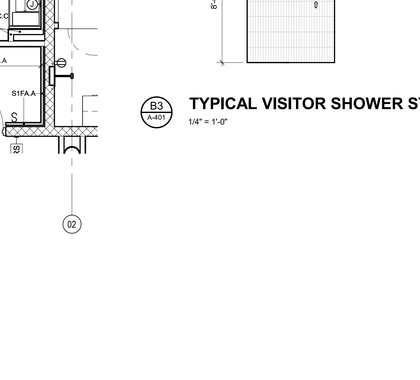
ENLARGED PLAN - VISITOR LKR

E1 / A-401 — 1/4" = 1'-0"



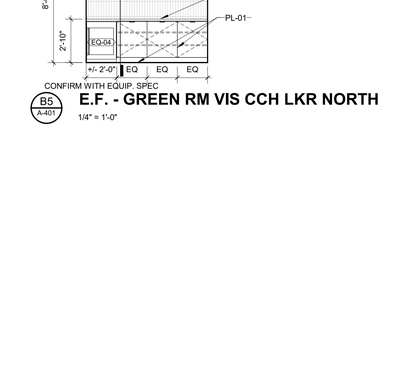
E.F. TYPICAL LOCKER ELEVATION

C1 / A-401 — 1/2" = 1'-0"



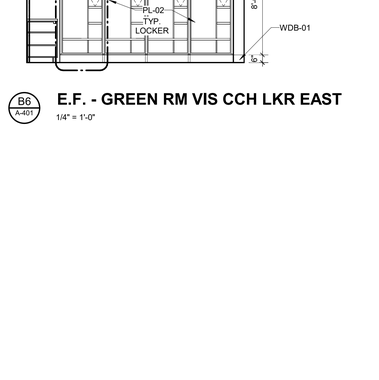
E.F. VISITOR SHOWER WEST

D3 / A-401 — 1/4" = 1'-0"



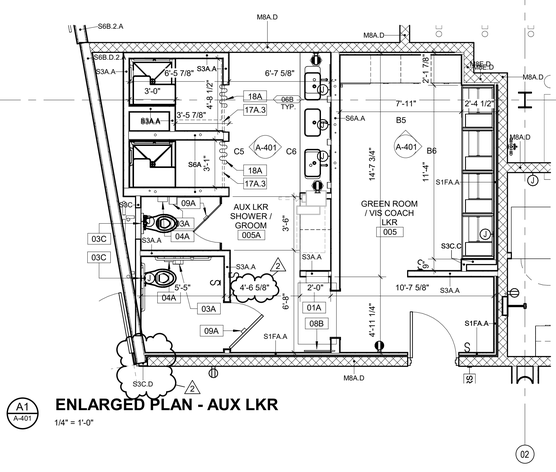
E.F. VISITOR SHWR/VANITY NORTH

D5 / A-401 — 1/4" = 1'-0"



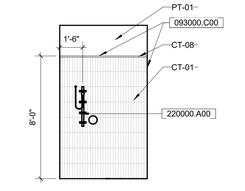
E.F. - VISITOR SHOWER EAST

D6 / A-401 — 1/4" = 1'-0"



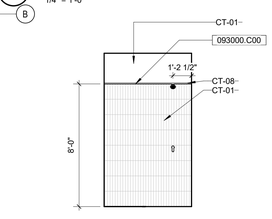
ENLARGED PLAN - AUX LKR

A1 / A-401 — 1/4" = 1'-0"



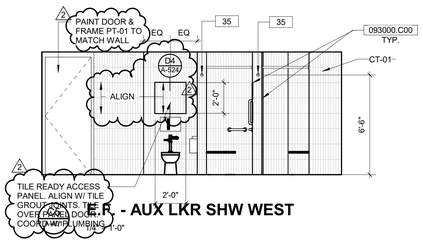
TYPICAL VISITOR SHOWER STALL WALL

C3 / A-401 — 1/4" = 1'-0"



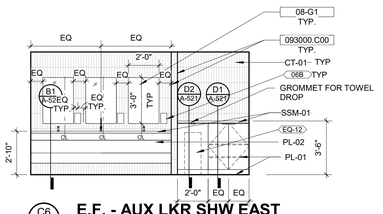
TYPICAL VISITOR SHOWER STALL CONTROLS

B3 / A-401 — 1/4" = 1'-0"



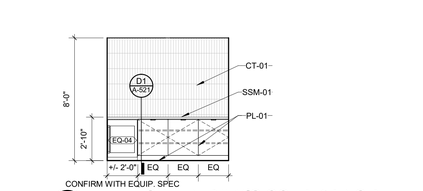
E.F. - AUX LKR SHW WEST

B5 / A-401 — 1/4" = 1'-0"



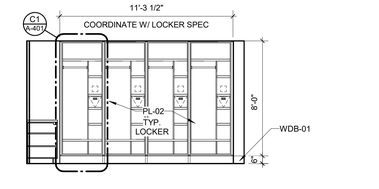
E.F. - AUX LKR SHW EAST

C6 / A-401 — 1/4" = 1'-0"



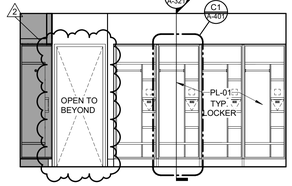
E.F. - GREEN RM VIS CCH LKR NORTH

B5 / A-401 — 1/4" = 1'-0"



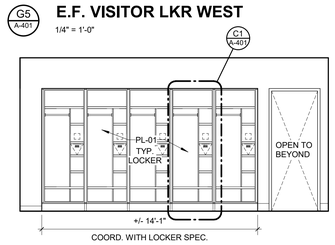
E.F. - GREEN RM VIS CCH LKR EAST

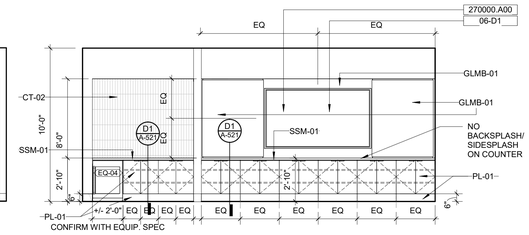
B6 / A-401 — 1/4" = 1'-0"



E.F. VISITOR LKR WEST

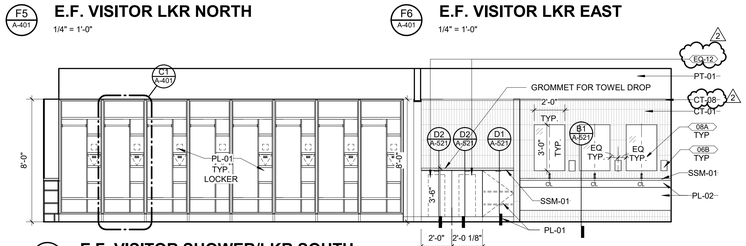
G5 / A-401 — 1/4" = 1'-0"





E.F. VISITOR LKR NORTH

F5 / A-401 — 1/4" = 1'-0"



E.F. VISITOR LKR EAST

F6 / A-401 — 1/4" = 1'-0"



E.F. VISITOR SHWR/VANITY NORTH

D5 / A-401 — 1/4" = 1'-0"

GENERAL TOILET ROOM NOTES

A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.

KEYNOTES (SPEC BASED)

061600.A00

093000.C00	METAL EDGE STRIP
220000.A00	PLUMBING EQUIPMENT/FIXTURE REFERENCE PLUMBING DRAWINGS
270000.A00	COMMUNICATION DEVICE, REFERENCE TECHNOLOGY DRAWINGS

KEYNOTES (ACTION/GENERAL)

00-A1

06-D1	PROVIDE WOOD BLOCKING
08-G1	FRAMELESS MIRROR, CONCEALED ATTACHMENT

TOILET ROOM ACCESSORIES

05A

REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND...

TAG	DESCRIPTION	MFR	MODEL NO.
01A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43944
01B	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED, INCLUDE LINER	BOBRICK	B-43949
01C	PAPER TOWEL DISPENSER, RECESSED	BOBRICK	B-318
01D	OWNER PROVIDED - PAPER TOWEL DISPENSER, SURFACE MOUNTED	<varies>	<varies>
02A	WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43644
02B	<varies>	BOBRICK	B-277
03A	TOILET TISSUE HOLDER, 2 STANDARD ROLL	BOBRICK	B-2888
03C	OWNER PROVIDED - SEAT COVER DISPENSER, SURFACE MOUNTED	BOBRICK	B-221
04A	OWNER PROVIDED - SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED	BOBRICK	B-270
05A	OWNER PROVIDED - GRAB BAR, 42"	BOBRICK	B-5806 x 42
05B	OWNER PROVIDED - GRAB BAR, 36"	BOBRICK	B-5806 x 36
05C	OWNER PROVIDED - GRAB BAR, 24"	BOBRICK	B-5806 x 24
05D	OWNER PROVIDED - GRAB BAR, 18"	BOBRICK	B-5806 x 18
05E	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 12
05F	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 30
06A	SOAP DISPENSER, COUNTERTOP MOUNTED	BOBRICK	B-8221
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111
07A	OWNER PROVIDED - WARM-AIR HAND DRYER, STAINLESS STEEL	BOBRICK	B-7128
08A	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2436
08B	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2472
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A
09A	CLOTHES HOOK	BOBRICK	B-7672
10A	CHANGING STATION, RECESSED	KOALA KARE	KB-110-SSRE KB-110-SSWM KB-110-SSWM
11A	SHARPS DISPOSAL, RECESSED	BOBRICK	B-35016
11B	SHARPS DISPOSAL, SURFACE MOUNTED	BOBRICK	B-350169
12A	JANITOR'S CLOSET SHELF, 18" W	BOBRICK	B-295x18
12B	JANITOR'S CLOSET SHELF, 24" W	BOBRICK	B-295x24
12C	MOP AND BROOM HOLDER	BOBRICK	B-223x24
13A	FOLDING SHOWER SEAT	BOBRICK	B-5181
17A.3	SHOWER CURTAIN ROD, CONTRACTOR TO PROVIDE SPEC FOR RUSTFREE SHOWER HOOKS	BOBRICK	B-207 x 36
18A	42"W x 72"H SHOWER CURTAIN	BOBRICK	204-2

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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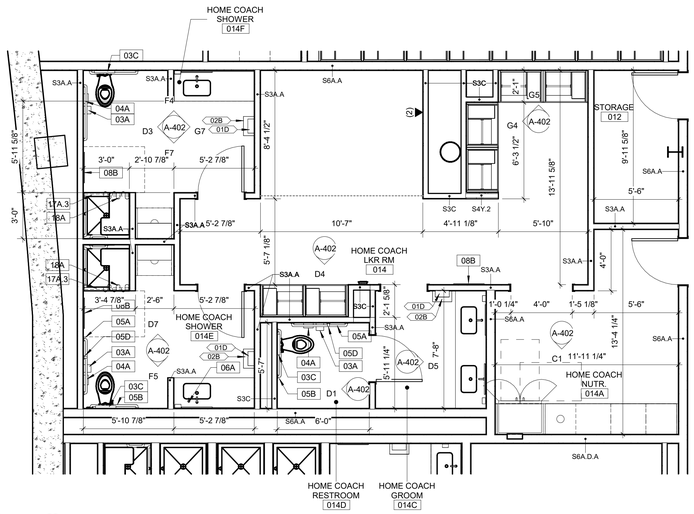
PROJECT NO. 23112.000

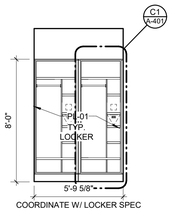
SHEET TITLE
ENLARGED PLANS & ELEVATIONS

SHEET NUMBER
A-401

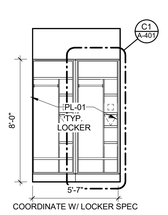
1/26/2025 9:43:21 PM



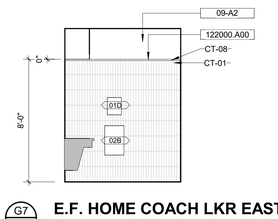
E1 ENLARGED PLAN - HOME COACH LKR
A-402 — 1/4" = 1'-0"



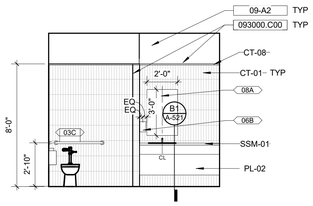
G4 E.F. HOME CCH LKR - WEST LKR
A-402 — 1/4" = 1'-0"



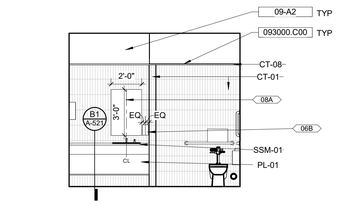
G5 E.F. HOME COACH LKR - NORTH LKR
A-402 — 1/4" = 1'-0"



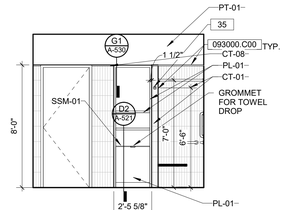
G7 E.F. HOME COACH LKR EAST
A-402 — 1/4" = 1'-0"



F4 E.F. HOME COACH LKR NORTH
A-402 — 1/4" = 1'-0"



F5 E.F. HOME COACH LKR RR SOUTH
A-402 — 1/4" = 1'-0"



F7 E.F. HOME COACH LKR SOUTH
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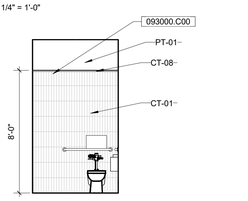

D1 E.F. HOME COACH SINGLE RR
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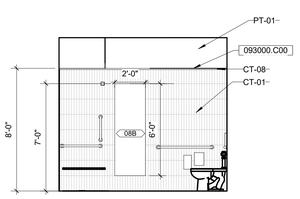

D3 E.F. HOME COACH LKR WEST
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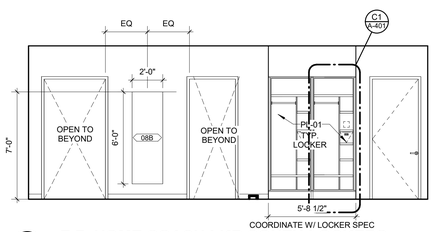

D4 E.F. HOME COACH LKR SOUTH LOCKERS
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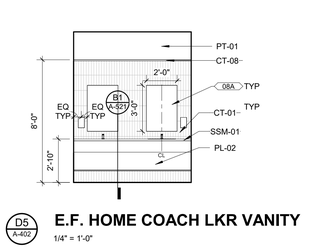

D5 E.F. HOME COACH LKR VANITY
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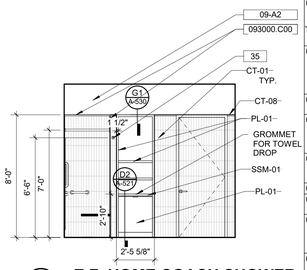

D7 E.F. HOME COACH SHOWER
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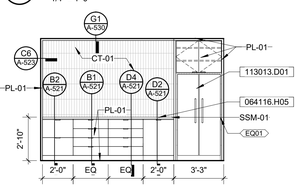

C1 E.F. HOME COACH LKR COUNTER
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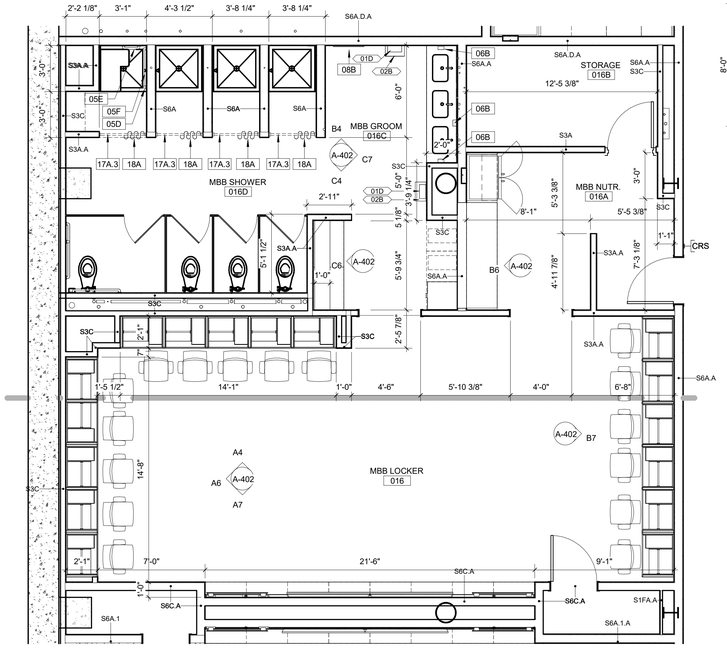
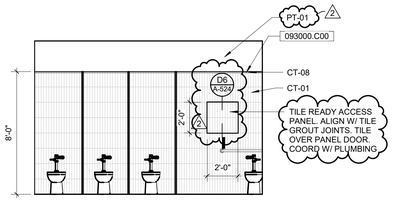
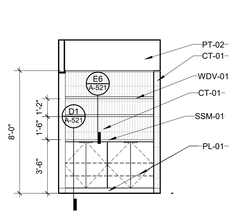


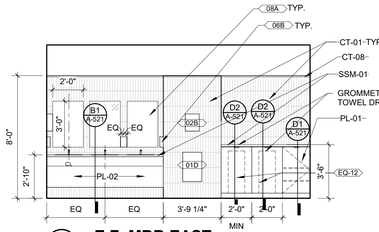
A1 ENLARGED PLAN - MBB LKR
A-402 — 1/4" = 1'-0"



C4 E.F. MBB SOUTH
A-402 — 1/4" = 1'-0"



C6 E.F. MBB NORTH WEST
A-402 — 1/4" = 1'-0"



C7 E.F. MBB EAST
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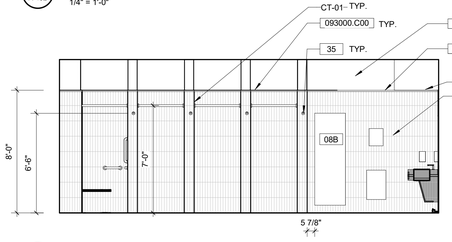
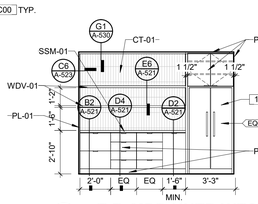


B4 E.F. MBB NORTH
A-402 — 1/4" = 1'-0"



B6 E.F. MBB NUTR WEST
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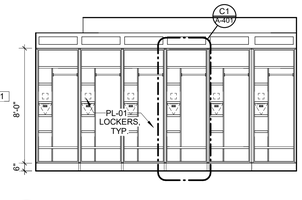
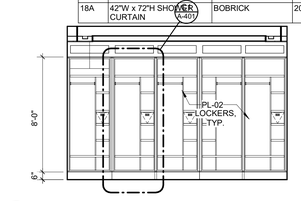
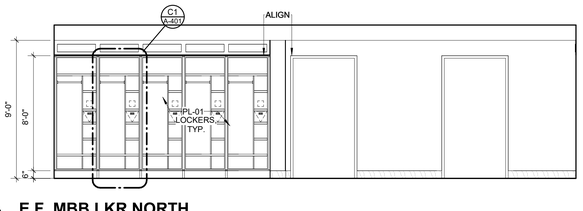


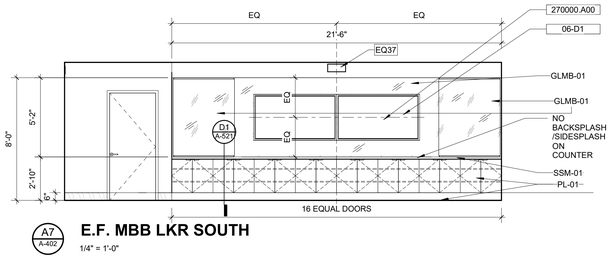
B7 MBB LKR
A-402 — 1/4" = 1'-0"



A6 E.F. MBB LKR WEST
A-402 — 1/4" = 1'-0"



A4 E.F. MBB LKR NORTH
A-402 — 1/4" = 1'-0"



A7 E.F. MBB LKR SOUTH
A-402 — 1/4" = 1'-0"

GENERAL TOILET ROOM NOTES

A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.

KEYNOTES (SPEC BASED)

061600.A00

064116.H05	HARDWARE, GROMMET
093000.C00	METAL EDGE STRIP
113013.D01	RESIDENTIAL APPLIANCES, REFRIGERATOR
122000.A00	WINDOW TREATMENT, REFER TO REFLECTED CEILING PLAN FOR TYPE
270000.A00	COMMUNICATION DEVICE, REFERENCE TECHNOLOGY DRAWINGS

KEYNOTES (ACTION/GENERAL)

00-A1

06-D1	PROVIDE WOOD BLOCKING
09-A2	WALL FINISH, REFER TO FINISH PLAN FOR TYPE

TOILET ROOM ACCESSORIES

05A

REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND...

TAG	DESCRIPTION	MFR	MODEL NO.
01A TYP.	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43944
01B	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED, INCLUDE LINER	BOBRICK	B-43949
01C	PAPER TOWEL DISPENSER, RECESSED	BOBRICK	B-318
01D	OWNER PROVIDED - PAPER TOWEL DISPENSER, SURFACE MOUNTED	<varies>	<varies>
02A	WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43644
02B	<varies>	BOBRICK	B-277
03A	TOILET TISSUE HOLDER, 2 STANDARD ROLL	BOBRICK	B-2888
03C	OWNER PROVIDED - SEAT COVER DISPENSER, SURFACE MOUNTED	BOBRICK	B-221
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05D	OWNER PROVIDED - GRAB BAR, 18"	BOBRICK	B-5806 x 18
05E	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 12
05F	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 30
06A	SOAP DISPENSER, COUNTERTOP MOUNTED	BOBRICK	B-8221
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111
07A	OWNER PROVIDED - WARM-AIR HAND DRYER, STAINLESS STEEL	BOBRICK	B-7128
08A	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2436
08B	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2472
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A
09A	CLOTHES HOOK	BOBRICK	B-7672
10A	CHANGING STATION, RECESSED	KOALA KARE	KB-110-SSRE KB-110-SSWM KB-110-SSWM
11A	SHARPS DISPOSAL, RECESSED	BOBRICK	B-35016
11B	SHARPS DISPOSAL, SURFACE MOUNTED	BOBRICK	B-350169
12A	JANITOR'S CLOSET SHELF, 18" W	BOBRICK	B-295x18
12B	JANITOR'S CLOSET SHELF, 24" W	BOBRICK	B-295x24
12C	MOP AND BROOM HOLDER	BOBRICK	B-223x24
13A	FOLDING SHOWER SEAT	BOBRICK	B-5181
17A.3	SHOWER CURTAIN ROD, CONTRACTOR TO PROVIDE SPEC FOR RUSTFREE SHOWER HOOKS	BOBRICK	B-207 x 36
18A	42"W x 72"H SHOWER CURTAIN	BOBRICK	204-2

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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2901 EAST DISCOVERY PARKWAY
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Architect
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101 SOUTH PENNSYLVANIA STREET
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Structural Engineer
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SUITE 285
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954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE — REGISTERED — No. AR00034154 — STATE OF INDIANA — ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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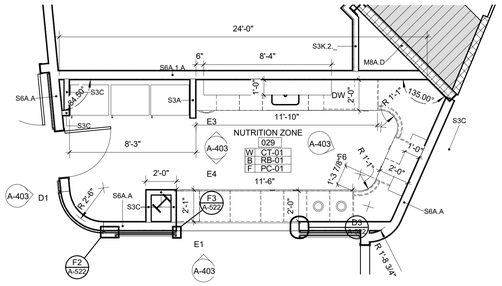
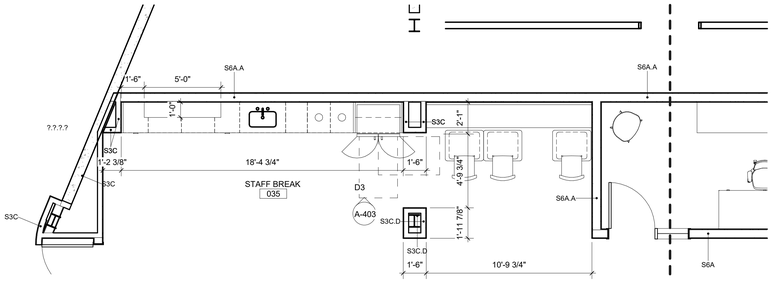
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED PLANS & ELEVATIONS

SHEET NUMBER
A-402

1/26/2025 9:43:53 PM

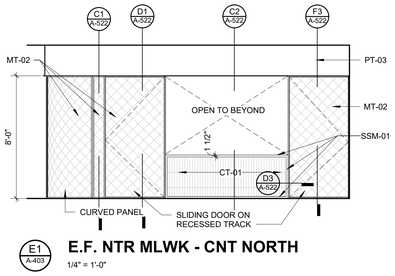




ENPL (E.F. NUTRITION ZONE)

F1 / A-403

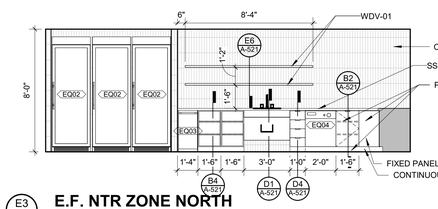
1/4" = 1'-0"



E.F. NTR MLWK - CNT NORTH

E1 / A-403

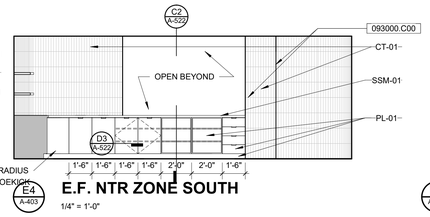
1/4" = 1'-0"



E.F. NTR ZONE NORTH

E3 / A-403

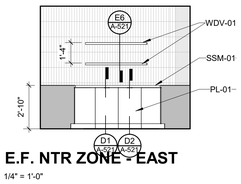
1/4" = 1'-0"



E.F. NTR ZONE SOUTH

E4 / A-403

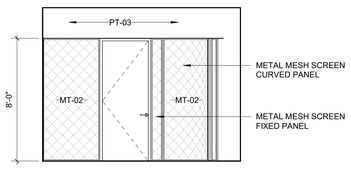
1/4" = 1'-0"



E.F. NTR ZONE - EAST

E6 / A-403

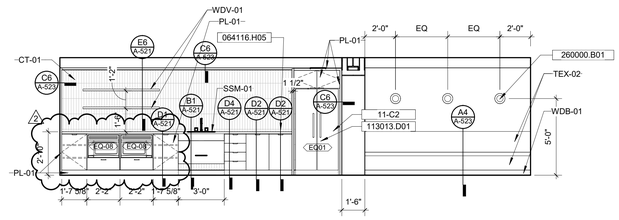
1/4" = 1'-0"



E.F. NTR MLWK - CNT WEST

D1 / A-403

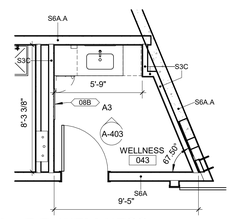
1/4" = 1'-0"



E.F. - STAFF BRK. NORTH

D3 / A-403

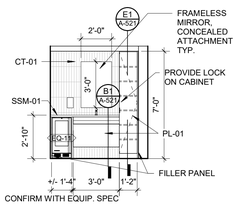
1/4" = 1'-0"



ENPL - E.F. WELLNESS

A1 / A-403

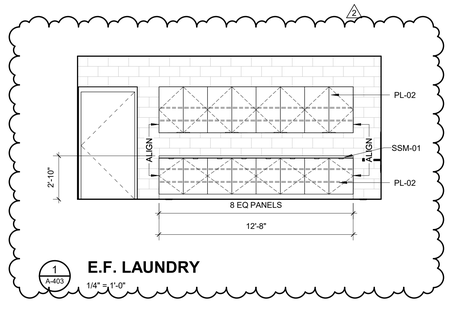
1/4" = 1'-0"



E.F. WELLNESS NORTH

A3 / A-403

1/4" = 1'-0"



E.F. LAUNDRY

1 / A-403

1/4" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

064116.H05	HARDWARE, GROMMET
093000.C00	METAL EDGE STRIP
113013.D01	RESIDENTIAL APPLIANCES, REFRIGERATOR
260000.B01	LIGHT FIXTURE, REFERENCE ELECTRICAL

KEYNOTES (ACTION/GENERAL)

00-A1

11-C2	OWNER PROVIDED EQUIPMENT - REFRIGERATOR, VERIFY SIZE AND CLEARANCE REQUIREMENTS

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WILLIAM A. BROWNE III REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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2	ADDENDUM 01	01/27/25

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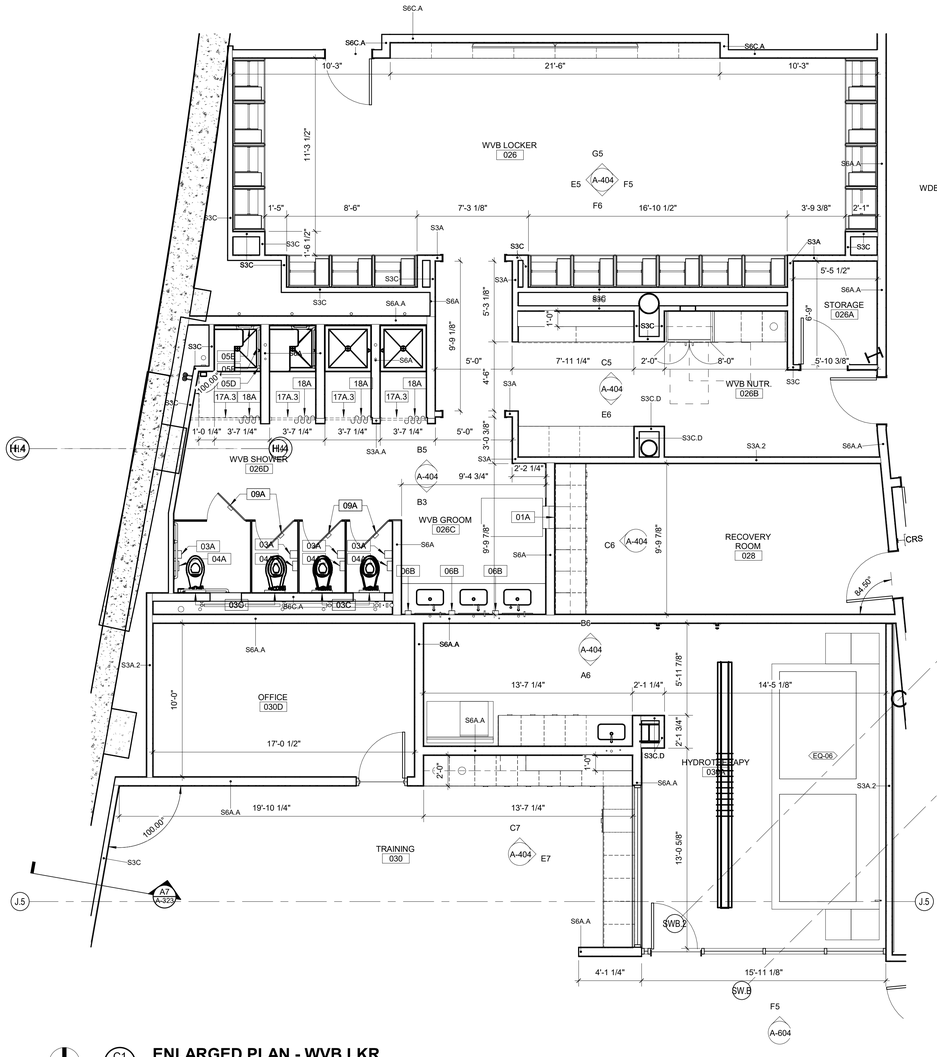
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED PLANS & ELEVATIONS

SHEET NUMBER
A-403

1/26/2025 9:44:11 PM



ENLARGED PLAN - WVB LKR

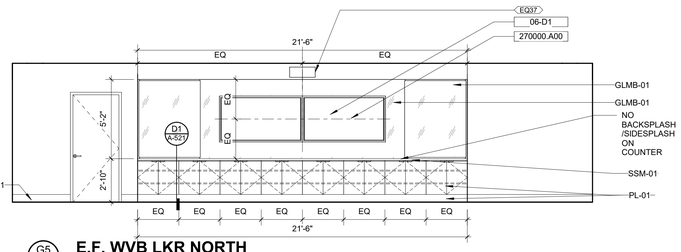
C1 / A-404 — 1/4" = 1'-0"

ENLARGED PLAN - INDIVIDUAL LKR

A1 / A-404 — 1/4" = 1'-0"

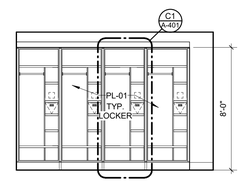
ENLARGED PLAN - WVB LKR

C1 / A-404 — 1/4" = 1'-0"



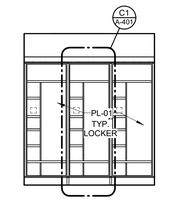
E.F. WVB LKR NORTH

G5 / A-404 — 1/4" = 1'-0"



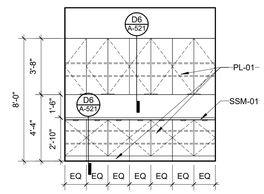
E.F. WVB LKR EAST

F5 / A-404 — 1/4" = 1'-0"



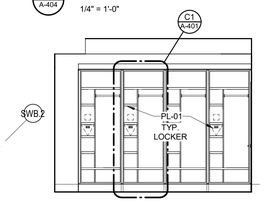
E.F. WVB LKR SOUTH

F6 / A-404 — 1/4" = 1'-0"



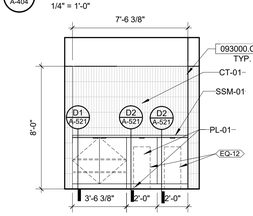
E.F. - RECOVERY ROOM WEST

C6 / A-404 — 1/4" = 1'-0"



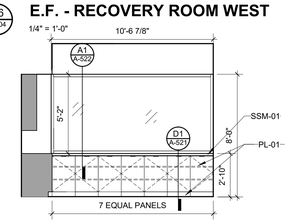
E.F. WVB LKR WEST

E5 / A-404 — 1/4" = 1'-0"



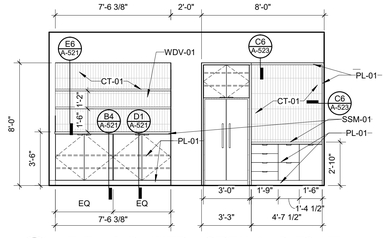
E.F. WVB TOWEL SOUTH

E6 / A-404 — 1/4" = 1'-0"



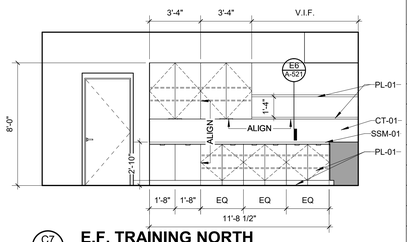
E.F. TRAINING EAST

E7 / A-404 — 1/4" = 1'-0"



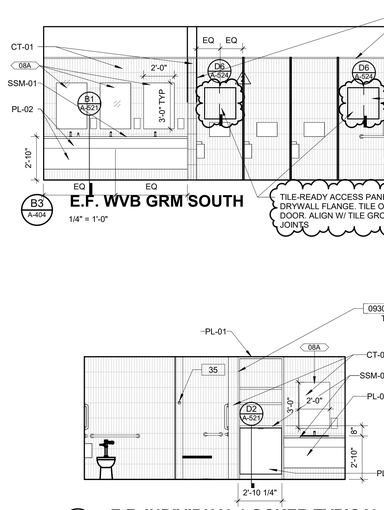
E.F. WVB NUTR NORTH AND TOWEL

C5 / A-404 — 1/4" = 1'-0"



E.F. TRAINING NORTH

C7 / A-404 — 1/4" = 1'-0"

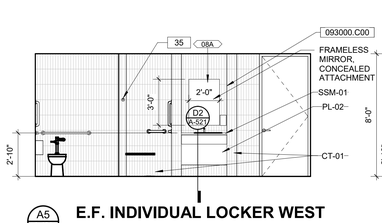


ENLARGED PLAN - INDIVIDUAL LKR

A1 / A-404 — 1/4" = 1'-0"

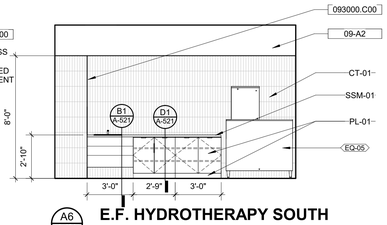
E.F. INDIVIDUAL LOCKER TYPICAL

A3 / A-404 — 1/4" = 1'-0"



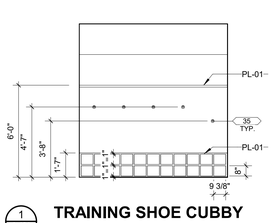
E.F. INDIVIDUAL LOCKER WEST

A5 / A-404 — 1/4" = 1'-0"



E.F. HYDROTHERAPY SOUTH

A6 / A-404 — 1/4" = 1'-0"



TRAINING SHOE CUBBY

1 / A-404 — 1/4" = 1'-0"

ENLARGED PLAN - INDIVIDUAL LKR

A1 / A-404 — 1/4" = 1'-0"

E.F. INDIVIDUAL LOCKER TYPICAL

A3 / A-404 — 1/4" = 1'-0"

E.F. INDIVIDUAL LOCKER WEST

A5 / A-404 — 1/4" = 1'-0"

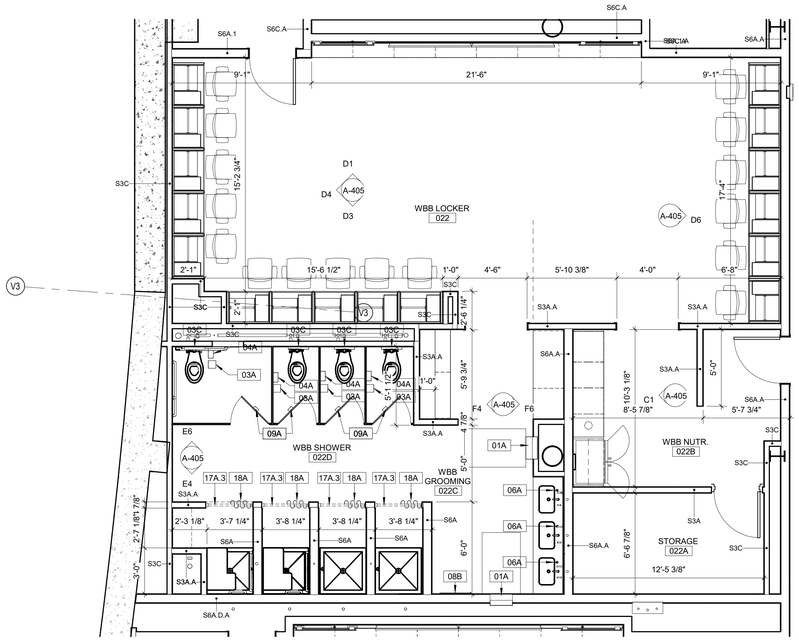
E.F. HYDROTHERAPY SOUTH

A6 / A-404 — 1/4" = 1'-0"

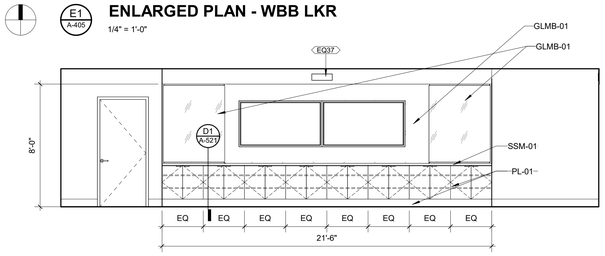
TRAINING SHOE CUBBY

1 / A-404 — 1/4" = 1'-0"

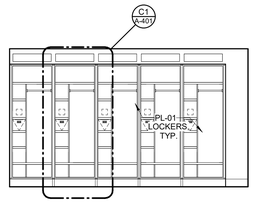
M8A.D
S0
S6S
S1FA.A



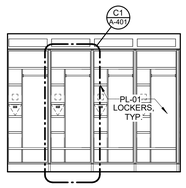
E1 A-405 **ENLARGED PLAN - WBB LKR**
1/4" = 1'-0"



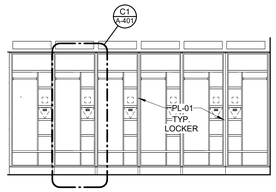
D1 A-405 **E.F. WBB LKR NORTH**
1/4" = 1'-0"



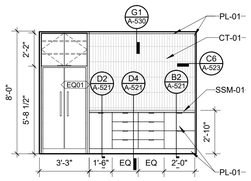
D3 A-405 **E.F. WBB LKR SOUTH**
1/4" = 1'-0"



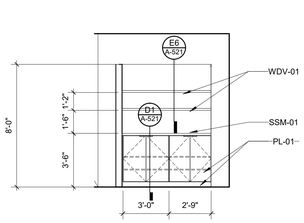
D4 A-405 **E.F. WBB LKR WEST**
1/4" = 1'-0"



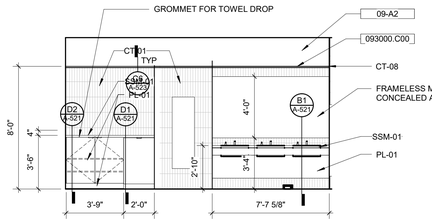
D6 A-405 **E.F. WBB NTR EAST**
1/4" = 1'-0"



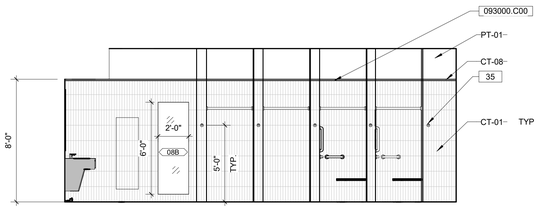
C1 A-405 **E.F. WBB NTR WEST**
1/4" = 1'-0"



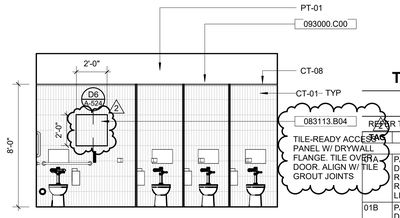
F4 A-405 **E.F. WBB GRM - WEST**
1/4" = 1'-0"



F6 A-405 **E.F. WBB LKR EAST**
1/4" = 1'-0"



E4 A-405 **E.F. WBB GRM - SOUTH**
1/4" = 1'-0"



E6 A-405 **E.F. WBB GRM - NORTH**
1/4" = 1'-0"

GENERAL TOILET ROOM NOTES

A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE
093000.C00	METAL EDGE STRIP

KEYNOTES (ACTION/GENERAL)

00-A1

09-A2	WALL FINISH, REFER TO FINISH PLAN FOR TYPE

TOILET ROOM ACCESSORIES

05A

REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND...

MARK	DESCRIPTION	MFR	MODEL NO.
01A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43944
01B	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED, INCLUDE LINER	BOBRICK	B-43949
01C	PAPER TOWEL DISPENSER, RECESSED	BOBRICK	B-318
01D	OWNER PROVIDED - PAPER TOWEL DISPENSER, SURFACE MOUNTED	<varies>	<varies>
02A	WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43644
02B	<varies>	BOBRICK	B-277
03A	TOILET TISSUE HOLDER, 2 STANDARD ROLL	BOBRICK	B-2888
03C	OWNER PROVIDED - SEAT COVER DISPENSER, SURFACE MOUNTED	BOBRICK	B-221
04A	OWNER PROVIDED - SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED	BOBRICK	B-270
05A	OWNER PROVIDED - GRAB BAR, 42"	BOBRICK	B-5806 x 42
05B	OWNER PROVIDED - GRAB BAR, 36"	BOBRICK	B-5806 x 36
05C	OWNER PROVIDED - GRAB BAR, 24"	BOBRICK	B-5806 x 24
05D	OWNER PROVIDED - GRAB BAR, 18"	BOBRICK	B-5806 x 18
05E	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 12
05F	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 30
06A	SOAP DISPENSER, COUNTERTOP MOUNTED	BOBRICK	B-8221
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111
07A	OWNER PROVIDED - WARM-AIR HAND DRYER, STAINLESS STEEL	BOBRICK	B-7128
08A	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2436
08B	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2472
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A
09A	CLOTHES HOOK	BOBRICK	B-7672
10A	CHANGING STATION, RECESSED	KOALA KARE	KB-110-SSRE KB-110-SSWM KB-110-SSWM
11A	SHARPS DISPOSAL, RECESSED	BOBRICK	B-35016
11B	SHARPS DISPOSAL, SURFACE MOUNTED	BOBRICK	B-350169
12A	JANITOR'S CLOSET SHELF, 18" W	BOBRICK	B-295x18
12B	JANITOR'S CLOSET SHELF, 24" W	BOBRICK	B-295x24
12C	MOP AND BROOM HOLDER	BOBRICK	B-223x24
13A	FOLDING SHOWER SEAT	BOBRICK	B-5181
17A.3	SHOWER CURTAIN ROD, CONTRACTOR TO PROVIDE SPEC FOR RUSTFREE SHOWER HOOKS	BOBRICK	B-207 x 36
18A	42"W x 72"H SHOWER CURTAIN	BOBRICK	204-2

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
FORZA
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HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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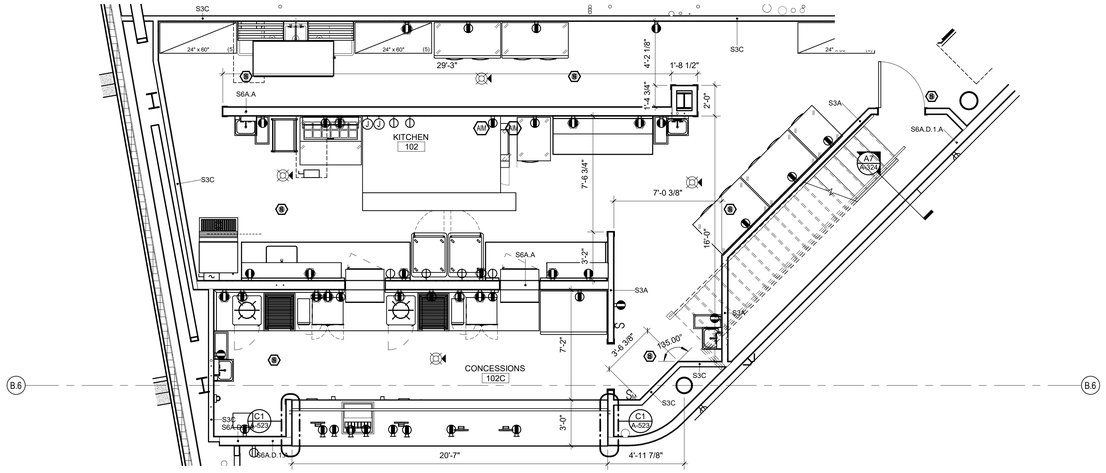
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED PLANS & ELEVATIONS

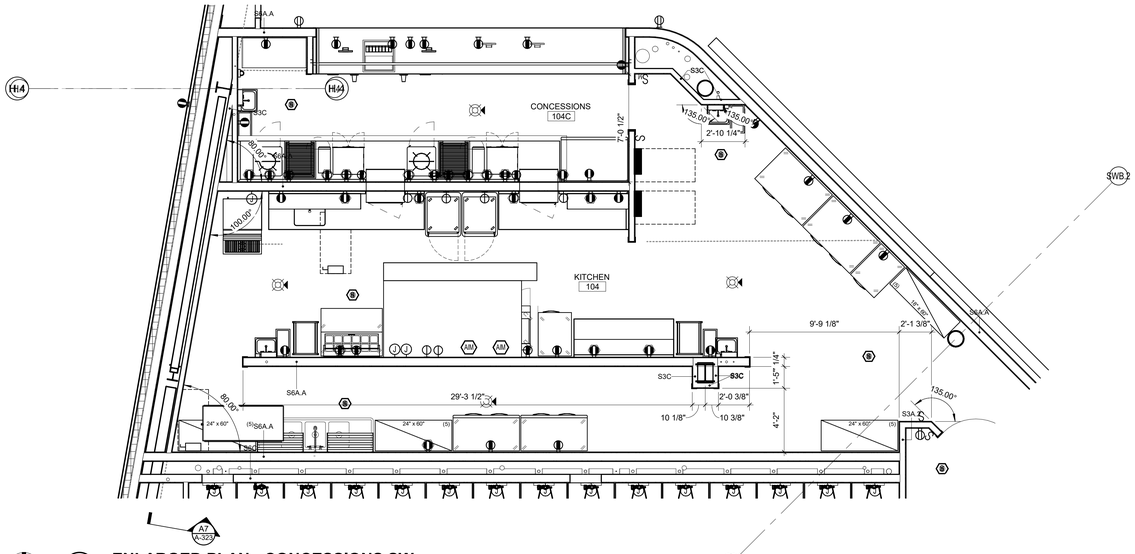
SHEET NUMBER
A-405

1/26/2025 9:44:57 PM



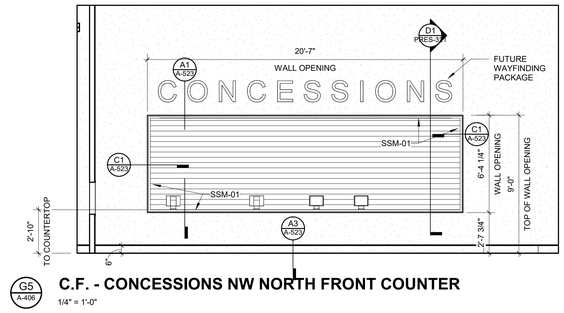
E1 A-406 **ENLARGED PLAN - CONCESSIONS NW**

1/4" = 1'-0"



B1 A-406 **ENLARGED PLAN - CONCESSIONS SW**

1/4" = 1'-0"



G5 A-406 **C.F. - CONCESSIONS NW NORTH FRONT COUNTER**

1/4" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

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SEAL | DATE 01/13/25

WILLIAM A. BROWNE III REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25

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PROJECT NO. 23112.000

SHEET TITLE
ENLARGED PLANS & ELEVATIONS

SHEET NUMBER
A-406

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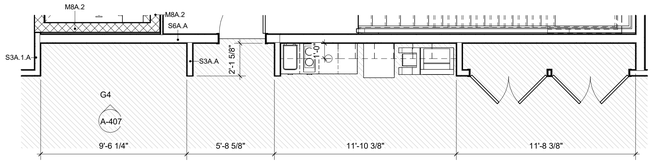

G1 A-407 **ENPL - (COPY/BEVERAGE)**
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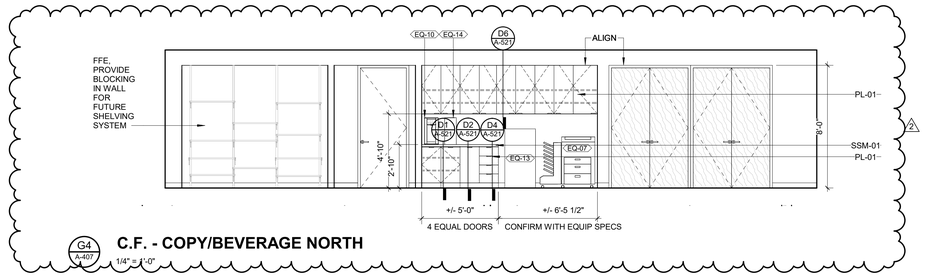


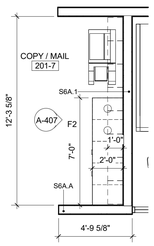
G4 A-407 **C.F. - COPY/BEVERAGE NORTH**
1/4" = 1'-0"

KEYNOTES (SPEC BASED)

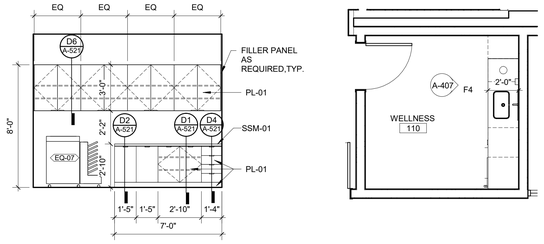
061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

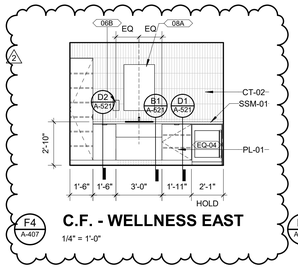


F1 A-407 **ENLP - U.F. COPY NICHE WEST**
1/4" = 1'-0"

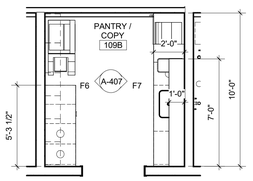


F2 A-407 **U.F. COPY NICHE EAST**
1/4" = 1'-0"

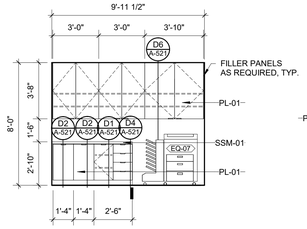
F3 A-407 **ENPL - (WELLNESS)**
1/4" = 1'-0"



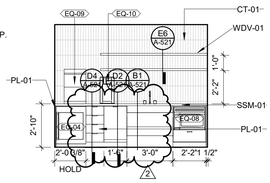
F4 A-407 **C.F. - WELLNESS EAST**
1/4" = 1'-0"



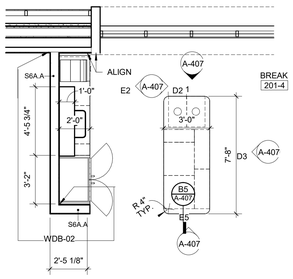
F5 A-407 **PANTRY / COPY 109**
1/4" = 1'-0"



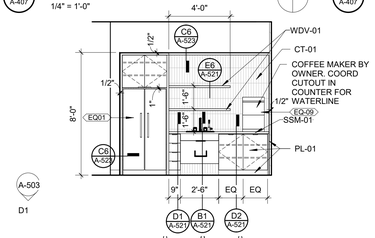
F6 A-407 **I.E. COPY 109B**
1/4" = 1'-0"



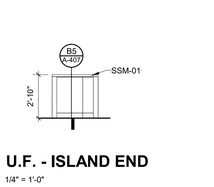
F7 A-407 **I.E. - PANTRY 109B**
1/4" = 1'-0"



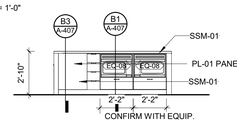
D1 A-407 **ENPL - U.F. BREAK**
1/4" = 1'-0"



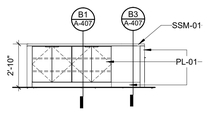
D2 A-407 **U.F. - BREAK ISLAND WEST**
1/4" = 1'-0"

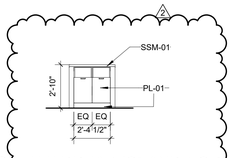


E5 A-407 **U.F. - ISLAND END**
1/4" = 1'-0"

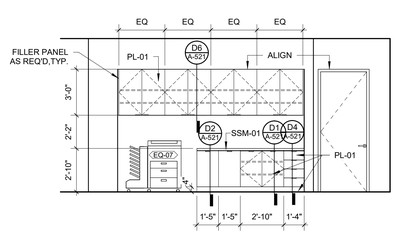


D3 A-407 **U.F. ISLAND WEST**
1/4" = 1'-0"

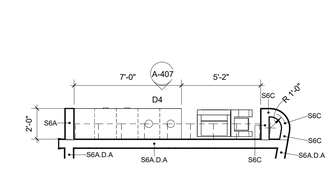




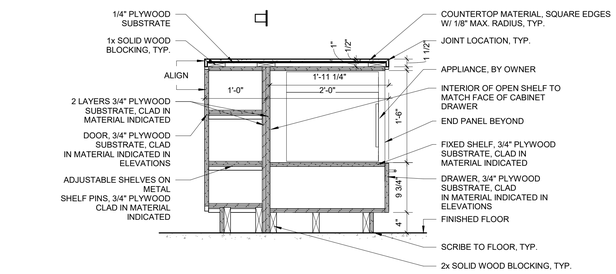
1 A-407 **U.F BREAK ISLAND NORTH**
1/4" = 1'-0"



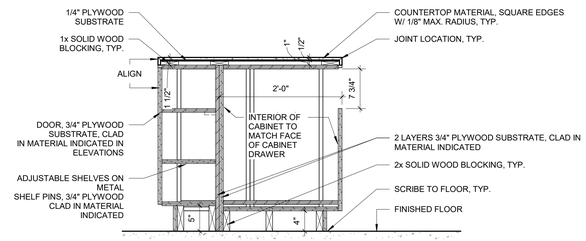
D4 A-407 **INT - COPY EAST TF LVL 2**
1/4" = 1'-0"



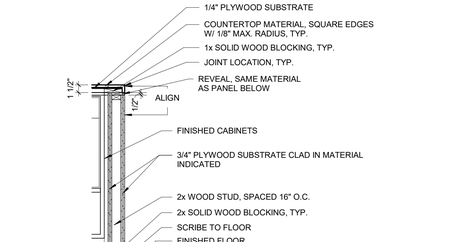
D6 A-407 **ENLP - U.F. COPY NICHE EAST**
1/4" = 1'-0"



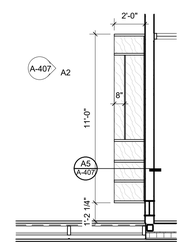
B1 A-407 **MLWK - OPEN NICHE MW SHELF**
1" = 1'-0"



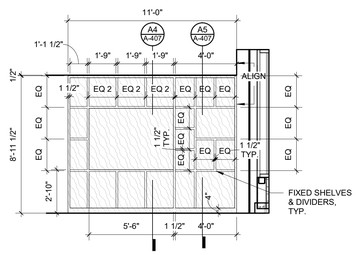
B3 A-407 **MLWK - OPEN NICHE ISLAND CAB.**
1" = 1'-0"



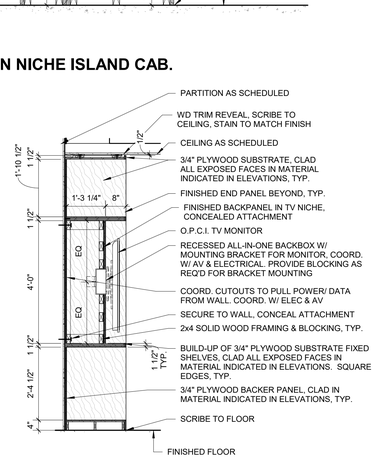
B5 A-407 **MLWK - OPEN NICH END WALL**
1" = 1'-0"



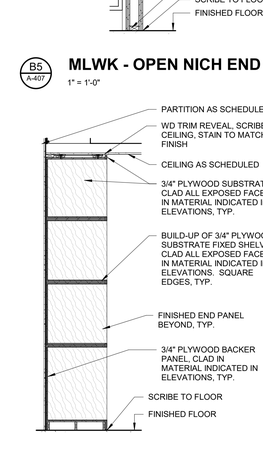
A1 A-407 **RECEPTION 109 MILLWORK**
1/4" = 1'-0"



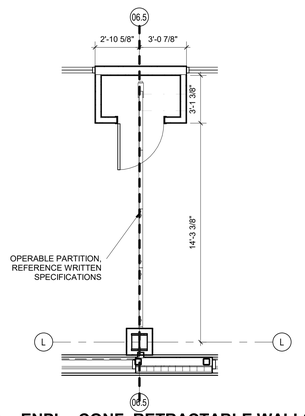
A2 A-407 **RECEPTION 109 MILLWORK**
1/4" = 1'-0"



A4 A-407 **MLWK SECTION - RECEP. 109**
1/2" = 1'-0"



A5 A-407 **MLWK SECTION - RECEP. 2**
1/2" = 1'-0"



A6 A-407 **ENPL - CONF. RETRACTABLE WALLS**
1/4" = 1'-0"

1/26/2025 9:45:27 PM

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE PRESTON No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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2	ADDENDUM 01	01/27/25

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SHEET TITLE
ENLARGED PLANS & ELEVATIONS

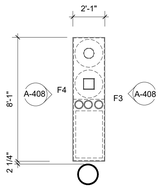
SHEET NUMBER
A-407

KEYNOTES (SPEC BASED)

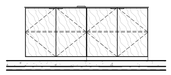
061600.A00

KEYNOTES (ACTION/GENERAL)

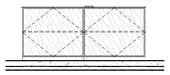
00-A1



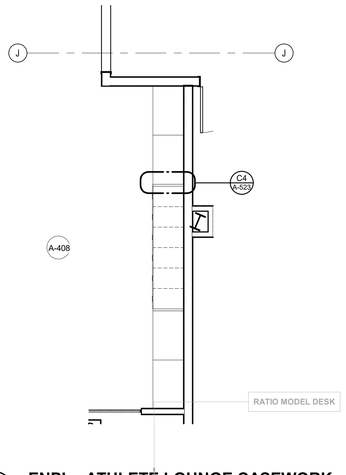
F1 A-408 **CSWK - CONCOURSE TRASH BUILT-IN**
1/4" = 1'-0"



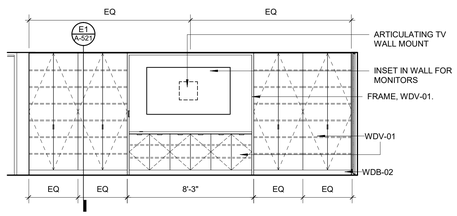
F3 A-408 **CONCOURSE TRASH - EAST**
1/4" = 1'-0"



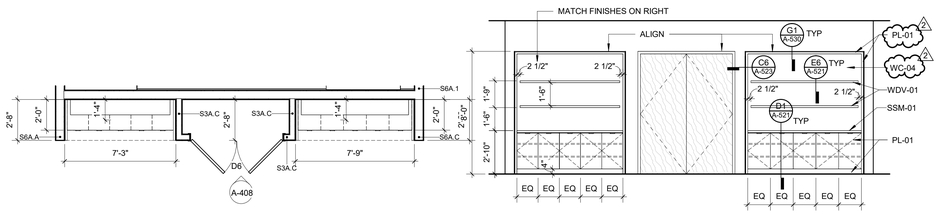
F4 A-408 **CONCOURSE TRASH - WEST**
1/4" = 1'-0"



D1 A-408 **ENPL - ATHLETE LOUNGE CASEWORK**
1/4" = 1'-0"

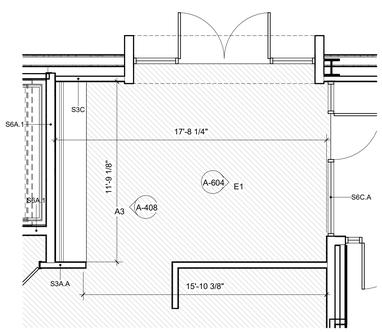


D3 A-408 **E.F. ATHLETE LOUNGE**
1/4" = 1'-0"

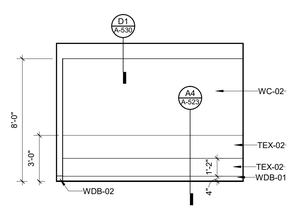


D5 A-408 **ENPL - OPEN OFFICE 201-6**
1/4" = 1'-0"

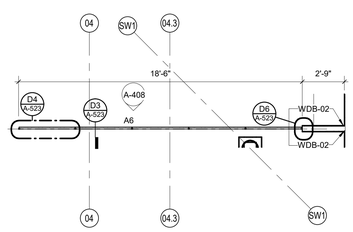
D6 A-408 **OPEN OFFICE 201-6**
1/4" = 1'-0"



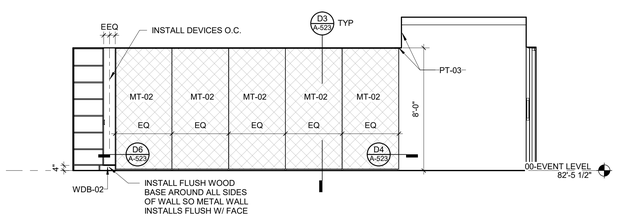
A1 A-408 **ENPL - C.F. OFFICE RECEP. DESK**
1/4" = 1'-0"



A3 A-408 **C.F. OFFICE RECEP. CREDENZA**
1/4" = 1'-0"



A5 A-408 **ENPL - ATHLETE LOUNGE METAL WALL**
1/4" = 1'-0"



A6 A-408 **INT - E.F. ATHLETE LOUNGE METAL WALL**
1/4" = 1'-0"

1/26/2025 9:45:40 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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9025 RIVER ROAD
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954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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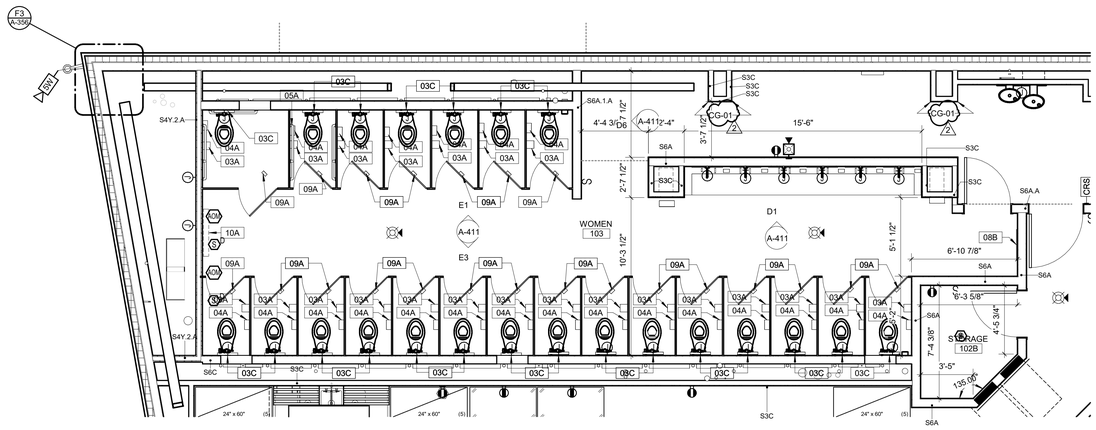
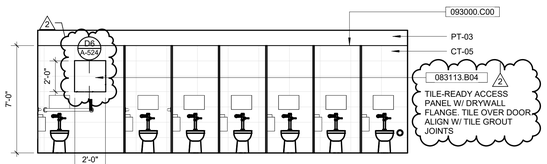
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED PLANS & ELEVATIONS

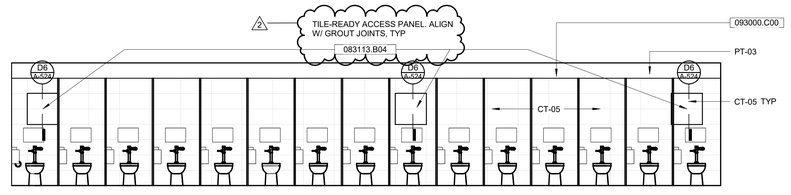
SHEET NUMBER
A-408



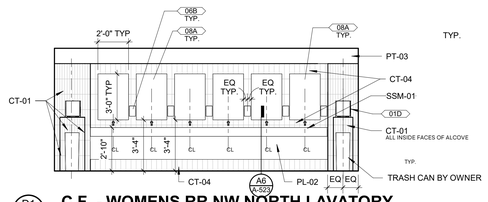
F1 / A-411 **ENLARGED PLAN - WOMENS RR NW**
1/4" = 1'-0"



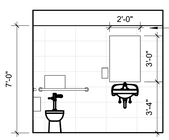
E1 / A-411 **C.F. - WOMEN RR NORTH**
1/4" = 1'-0"



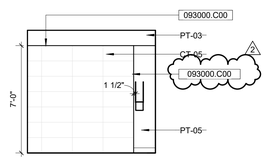
E3 / A-411 **C.F. - WOMENS RR NW SOUTH**
1/4" = 1'-0"



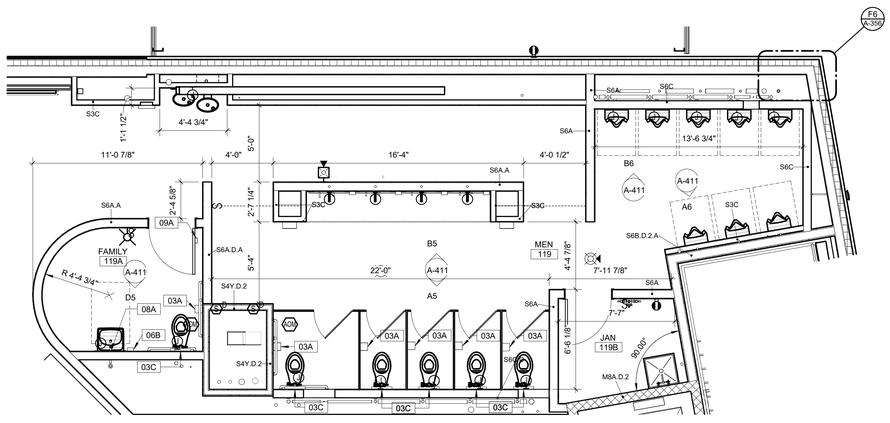
D1 / A-411 **C.F. - WOMENS RR NW NORTH LAVATORY**
1/4" = 1'-0"



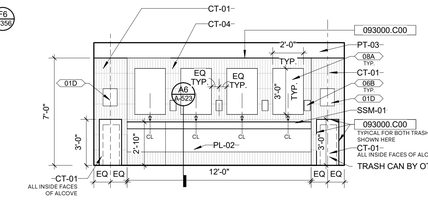
D5 / A-411 **C.F. - FAMILY RR NE SOUTH**
1/4" = 1'-0"



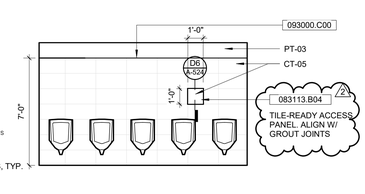
D6 / A-411 **WOMEN 103 WEST**
1/4" = 1'-0"



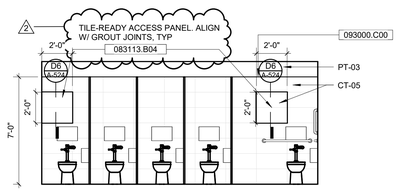
A1 / A-411 **ENLARGED PLAN - MENS RR NE**
1/4" = 1'-0"



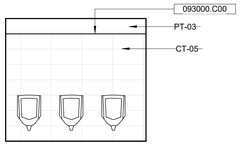
B5 / A-411 **C.F. - MEN RR NE NORTH LAVATORY**
1/4" = 1'-0"



B6 / A-411 **C.F. - MENS RR NE NORTHEAST**
1/4" = 1'-0"



A5 / A-411 **C.F. - MENS RR NE SOUTH**
1/4" = 1'-0"



A6 / A-411 **C.F. - MENS RR NE SOUTHEAST**
1/4" = 1'-0"

GENERAL TOILET ROOM NOTES

A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE
093000.C00	METAL EDGE STRIP

KEYNOTES (ACTION/GENERAL)

00-A1

TOILET ROOM ACCESSORIES

05A

REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND...

TAG	DESCRIPTION	MFR	MODEL NO.
01A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43944
01B	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED, INCLUDE LINER	BOBRICK	B-43949
01C	PAPER TOWEL DISPENSER, RECESSED	BOBRICK	B-318
01D	OWNER PROVIDED - PAPER TOWEL DISPENSER, SURFACE MOUNTED	<varies>	<varies>
02A	WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43644
02B	<varies>	BOBRICK	B-277
03A	TOILET TISSUE HOLDER, 2 STANDARD ROLL	BOBRICK	B-2888
03C	OWNER PROVIDED - SEAT COVER DISPENSER, SURFACE MOUNTED	BOBRICK	B-221
04A	OWNER PROVIDED - SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED	BOBRICK	B-270
05A	OWNER PROVIDED - GRAB BAR, 42"	BOBRICK	B-5806 x 42
05B	OWNER PROVIDED - GRAB BAR, 36"	BOBRICK	B-5806 x 36
05C	OWNER PROVIDED - GRAB BAR, 24"	BOBRICK	B-5806 x 24
05D	OWNER PROVIDED - GRAB BAR, 18"	BOBRICK	B-5806 x 18
05E	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 12
05F	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 30
06A	SOAP DISPENSER, COUNTERTOP MOUNTED	BOBRICK	B-8221
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111
07A	OWNER PROVIDED - WARM-AIR HAND DRYER, STAINLESS STEEL	BOBRICK	B-7128
08A	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2436
08B	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2472
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A
09A	CLOTHES HOOK	BOBRICK	B-7672
10A	CHANGING STATION, RECESSED	KOALA KARE	KB-110-SSRE KB-110-SSWM KB-110-SSWM
11A	SHARPS DISPOSAL, RECESSED	BOBRICK	B-35016
11B	SHARPS DISPOSAL, SURFACE MOUNTED	BOBRICK	B-350169
12A	JANITOR'S CLOSET SHELF, 18" W	BOBRICK	B-295x18
12B	JANITOR'S CLOSET SHELF, 24" W	BOBRICK	B-295x24
12C	MOP AND BROOM HOLDER	BOBRICK	B-223x24
13A	FOLDING SHOWER SEAT	BOBRICK	B-5181
17A.3	SHOWER CURTAIN ROD, CONTRACTOR TO PROVIDE SPEC FOR RUSTFREE SHOWER HOOKS	BOBRICK	B-207 x 36
18A	42"W x 72"H SHOWER CURTAIN	BOBRICK	204-2

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46220

IU Project NO. 20240127

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Plumbing Engineer
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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. PRESTSYEREDGE No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
ENLARGED RESTROOM PLANS

SHEET NUMBER
A-411

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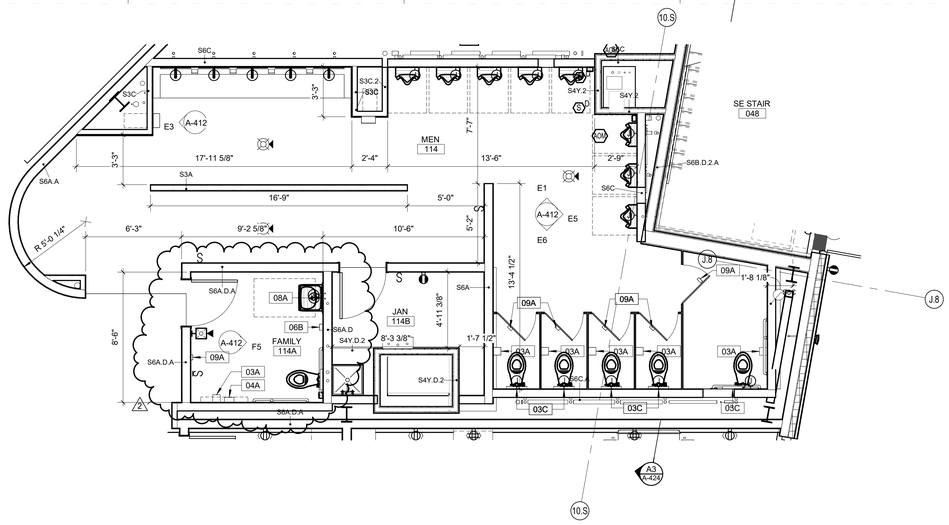
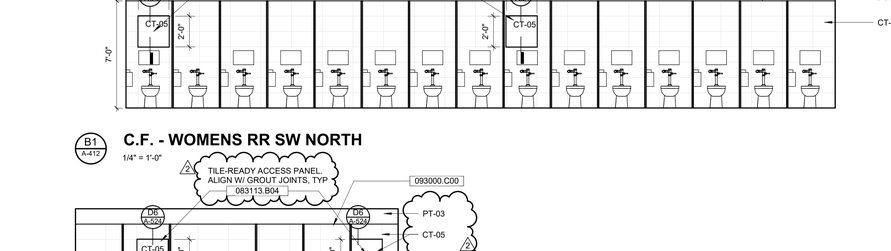


F1 A-412 ENLARGED PLAN - MENS RR SE

1/4" = 1'-0"

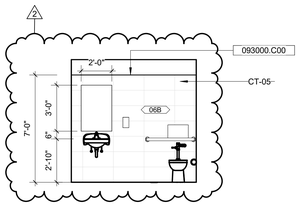


E1 A-412 C.F. - MENS RR NORTH

1/4" = 1'-0"

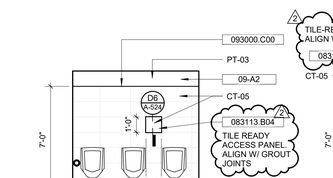
E3 A-412 CF MENS EAST

1/4" = 1'-0"



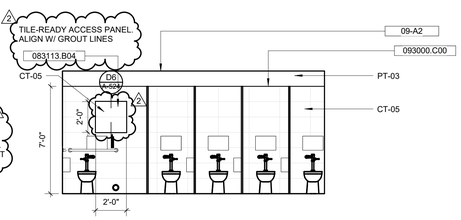
F5 A-412 C.F. - FAMILY RR SE EAST

1/4" = 1'-0"



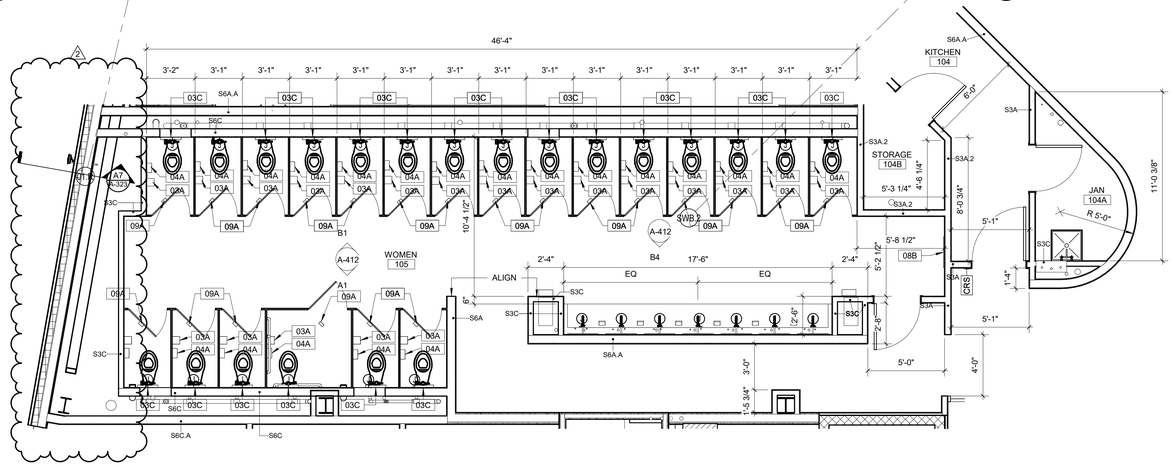
E5 A-412 C.F. - MENS RR SE EAST

1/4" = 1'-0"



E6 A-412 C.F. - MENS RR SE SOUTH

1/4" = 1'-0"



C1 A-412 ENLARGED PLAN - WOMENS RR SW

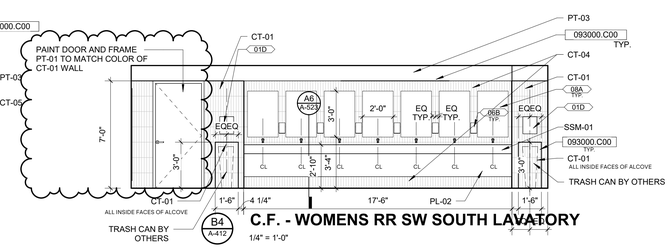
1/4" = 1'-0"

B1 A-412 C.F. - WOMENS RR SW NORTH

1/4" = 1'-0"

A1 A-412 C.F. - WOMENS RR SW SOUTH

1/4" = 1'-0"



B4 A-412 C.F. - WOMENS RR SW SOUTH LAVATORY

1/4" = 1'-0"

GENERAL TOILET ROOM NOTES

A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.

KEYNOTES (SPEC BASED)

061600.A00

083113.B04	ACCESS DOORS AND FRAMES - FLUSH ACCESS DOOR WITH CONCEALED FLANGE
093000.C00	METAL EDGE STRIP

KEYNOTES (ACTION/GENERAL)

00-A1

09-A2	WALL FINISH, REFER TO FINISH PLAN FOR TYPE

TOILET ROOM ACCESSORIES

05A

REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND...

TAG	DESCRIPTION	MFR	MODEL NO.
01A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43944
01B	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED, INCLUDE LINER	BOBRICK	B-43949
01C	PAPER TOWEL DISPENSER, RECESSED	BOBRICK	B-318
01D	OWNER PROVIDED - PAPER TOWEL DISPENSER, SURFACE MOUNTED	<varies>	<varies>
02A	WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43644
02B	<varies>	BOBRICK	B-277
03A	TOILET TISSUE HOLDER, 2 STANDARD ROLL	BOBRICK	B-2888
03C	OWNER PROVIDED - SEAT COVER DISPENSER, SURFACE MOUNTED	BOBRICK	B-221
04A	OWNER PROVIDED - SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED	BOBRICK	B-270
05A	OWNER PROVIDED - GRAB BAR, 42"	BOBRICK	B-5806 x 42
05B	OWNER PROVIDED - GRAB BAR, 36"	BOBRICK	B-5806 x 36
05C	OWNER PROVIDED - GRAB BAR, 24"	BOBRICK	B-5806 x 24
05D	OWNER PROVIDED - GRAB BAR, 18"	BOBRICK	B-5806 x 18
05E	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 12
05F	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 30
06A	SOAP DISPENSER, COUNTERTOP MOUNTED	BOBRICK	B-8221
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111
07A	OWNER PROVIDED - WARM-AIR HAND DRYER, STAINLESS STEEL	BOBRICK	B-7128
08A	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2436
08B	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2472
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A
09A	CLOTHES HOOK	BOBRICK	B-7672
10A	CHANGING STATION, RECESSED	KOALA KARE	KB-110-SSRE KB-110-SSWM KB-110-SSWM
11A	SHARPS DISPOSAL, RECESSED	BOBRICK	B-35016
11B	SHARPS DISPOSAL, SURFACE MOUNTED	BOBRICK	B-350169
12A	JANITOR'S CLOSET SHELF, 18" W	BOBRICK	B-295x18
12B	JANITOR'S CLOSET SHELF, 24" W	BOBRICK	B-295x24
12C	MOP AND BROOM HOLDER	BOBRICK	B-223x24
13A	FOLDING SHOWER SEAT	BOBRICK	B-5181
17A.3	SHOWER CURTAIN ROD, CONTRACTOR TO PROVIDE SPEC FOR RUSTFREE SHOWER HOOKS	BOBRICK	B-207 x 36
18A	42"W x 72"H SHOWER CURTAIN	BOBRICK	204-2

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. 21AR000341545 STATE OF VIRGINIA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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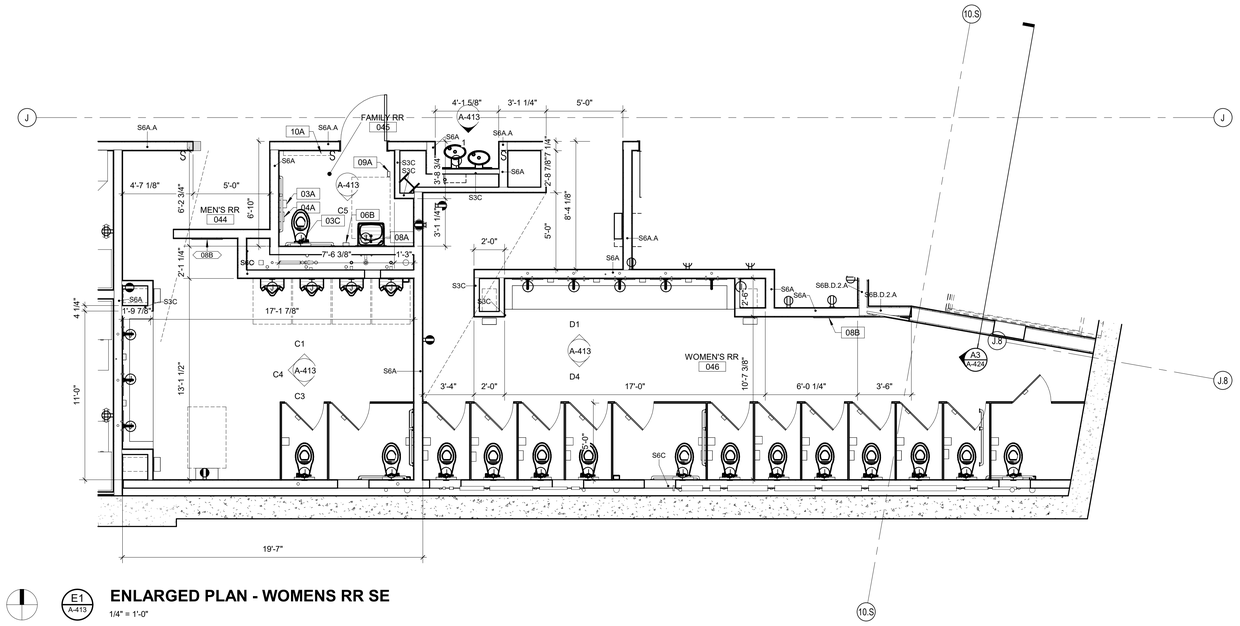
PROJECT NO. 23112.000

SHEET TITLE
ENLARGED RESTROOM PLANS

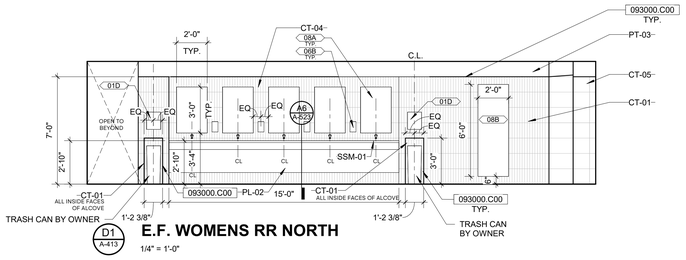
SHEET NUMBER
A-412

1/26/2025 9:46:25 PM



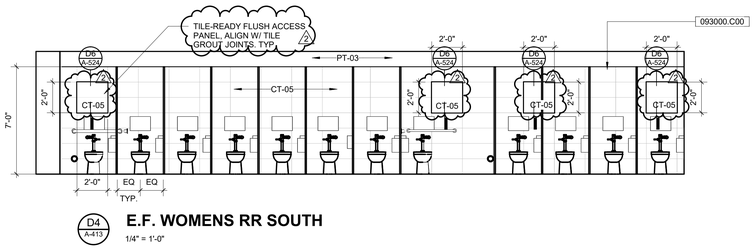
E1 / A-413 ENLARGED PLAN - WOMENS RR SE

1/4" = 1'-0"



D1 / A-413 E.F. WOMENS RR NORTH

1/4" = 1'-0"



D4 / A-413 E.F. WOMENS RR SOUTH

1/4" = 1'-0"

GENERAL TOILET ROOM NOTES

A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.

KEYNOTES (SPEC BASED)

061600.A00

093000.C00	METAL EDGE STRIP
220000.A00	PLUMBING EQUIPMENT/FIXTURE REFERENCE PLUMBING DRAWINGS

KEYNOTES (ACTION/GENERAL)

00-A1

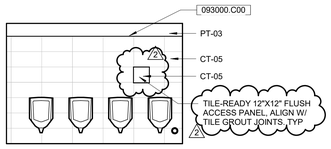
08-G1	FRAMELESS MIRROR, CONCEALED ATTACHMENT

TOILET ROOM ACCESSORIES

05A

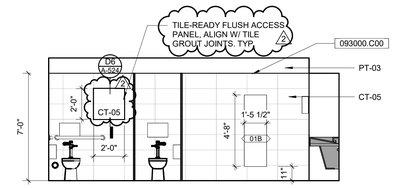
REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND...

TAG	DESCRIPTION	MFR	MODEL NO.
01A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43944
01B	PAPER TOWEL DISPENSER/WASTE RECEPTACLE, SURFACE MOUNTED, INCLUDE LINER	BOBRICK	B-43949
01C	PAPER TOWEL DISPENSER, RECESSED	BOBRICK	B-318
01D	OWNER PROVIDED - PAPER TOWEL DISPENSER, SURFACE MOUNTED	<varies>	<varies>
02A	WASTE RECEPTACLE, RECESSED, INCLUDE LINER	BOBRICK	B-43644
02B	<varies>	BOBRICK	B-277
03A	TOILET TISSUE HOLDER, 2 STANDARD ROLL	BOBRICK	B-2888
03C	OWNER PROVIDED - SEAT COVER DISPENSER, SURFACE MOUNTED	BOBRICK	B-221
04A	OWNER PROVIDED - SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED	BOBRICK	B-270
05A	OWNER PROVIDED - GRAB BAR, 42"	BOBRICK	B-5806 x 42
05B	OWNER PROVIDED - GRAB BAR, 36"	BOBRICK	B-5806 x 36
05C	OWNER PROVIDED - GRAB BAR, 24"	BOBRICK	B-5806 x 24
05D	OWNER PROVIDED - GRAB BAR, 18"	BOBRICK	B-5806 x 18
05E	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 12
05F	OWNER PROVIDED - GRAB BAR, 12"	BOBRICK	B-5806 x 30
06A	SOAP DISPENSER, COUNTERTOP MOUNTED	BOBRICK	B-8221
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111
07A	OWNER PROVIDED - WARM-AIR HAND DRYER, STAINLESS STEEL	BOBRICK	B-7128
08A	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2436
08B	MIRROR, ABOVE COUNTERTOP	BOBRICK	B-290 2472
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A
09A	CLOTHES HOOK	BOBRICK	B-7672
10A	CHANGING STATION, RECESSED	KOALA KARE	KB-110-SSRE KB-110-SSWM KB-110-SSWM
11A	SHARPS DISPOSAL, RECESSED	BOBRICK	B-35016
11B	SHARPS DISPOSAL, SURFACE MOUNTED	BOBRICK	B-350169
12A	JANITOR'S CLOSET SHELF, 18" W	BOBRICK	B-295x18
12B	JANITOR'S CLOSET SHELF, 24" W	BOBRICK	B-295x24
12C	MOP AND BROOM HOLDER	BOBRICK	B-223x24
13A	FOLDING SHOWER SEAT	BOBRICK	B-5181
17A.3	SHOWER CURTAIN ROD, CONTRACTOR TO PROVIDE SPEC FOR RUSTFREE SHOWER HOOKS	BOBRICK	B-207 x 36
18A	42"W x 72"H SHOWER CURTAIN	BOBRICK	204-2



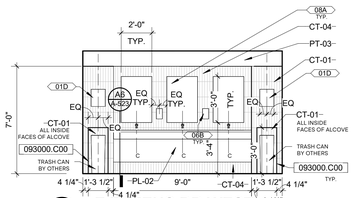
C1 / A-413 E.F. MENS RR NORTH

1/4" = 1'-0"



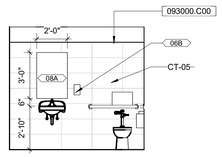
C3 / A-413 E.F. MENS RR SOUTH

1/4" = 1'-0"



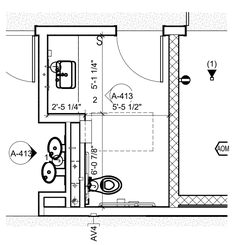
C4 / A-413 E.F. MENS RR WEST

1/4" = 1'-0"



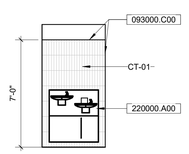
C5 / A-413 E.F. - FAMILY RR SOUTH

1/4" = 1'-0"



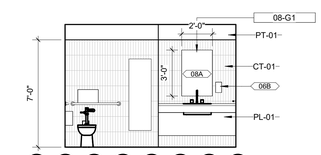
A1 / A-413 ENPL - TRAINING RR

1/4" = 1'-0"



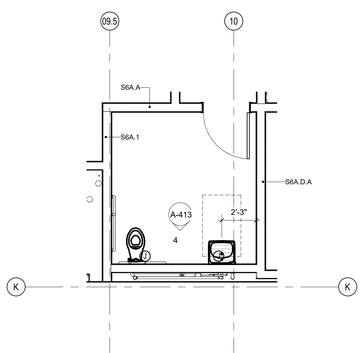
1 / A-413 WATER FOUNTAIN

1/4" = 1'-0"



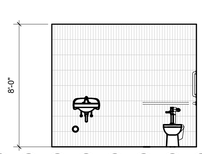
2 / A-413 TRAINING RR VANITY

1/4" = 1'-0"



3 / A-413 ENPL - UF RESTROOM 205

1/4" = 1'-0"



4 / A-413 INTELEV - RESTROOM 205

1/4" = 1'-0"

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
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PROJECT NO. 23112.000

SHEET TITLE
ENLARGED RESTROOM PLANS

SHEET NUMBER
A-413

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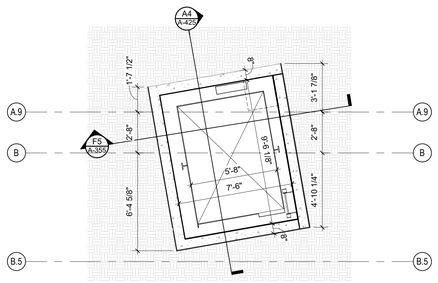
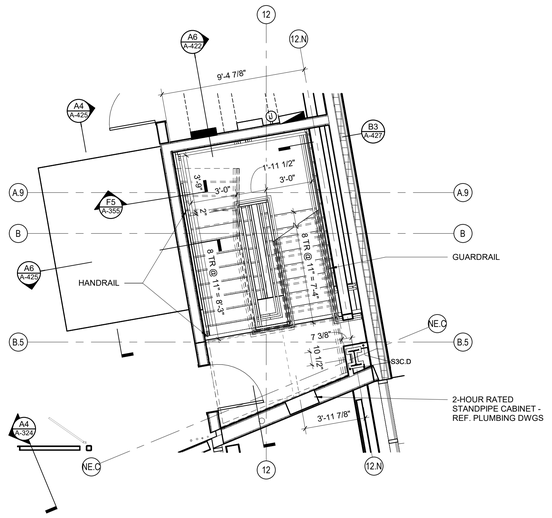
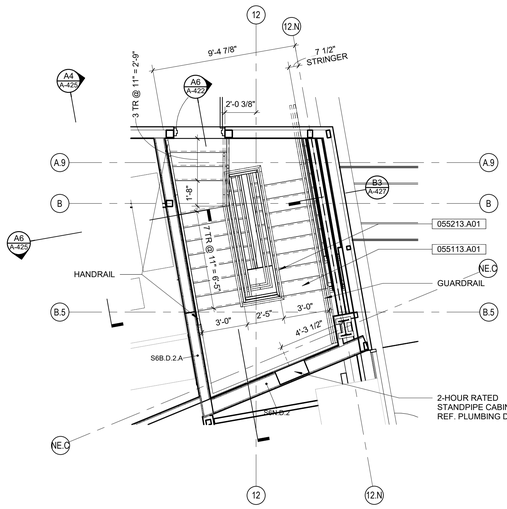


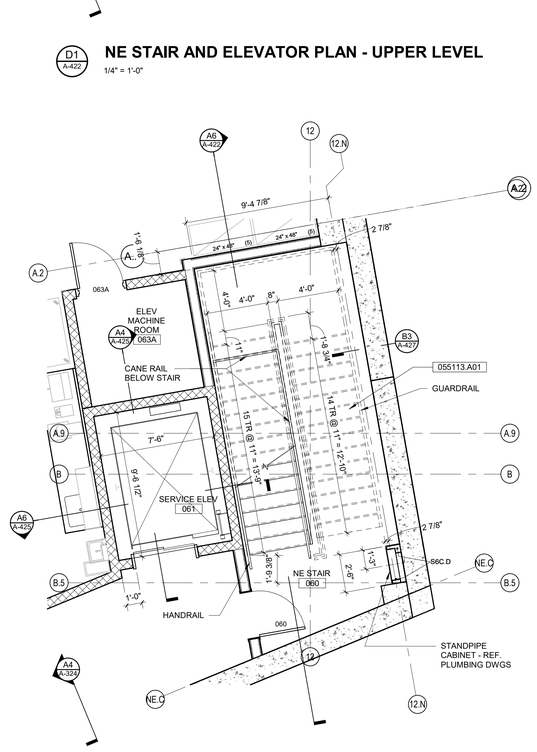
1 ENLARGED ELEV PLAN - PIT
1/4" = 1'-0"



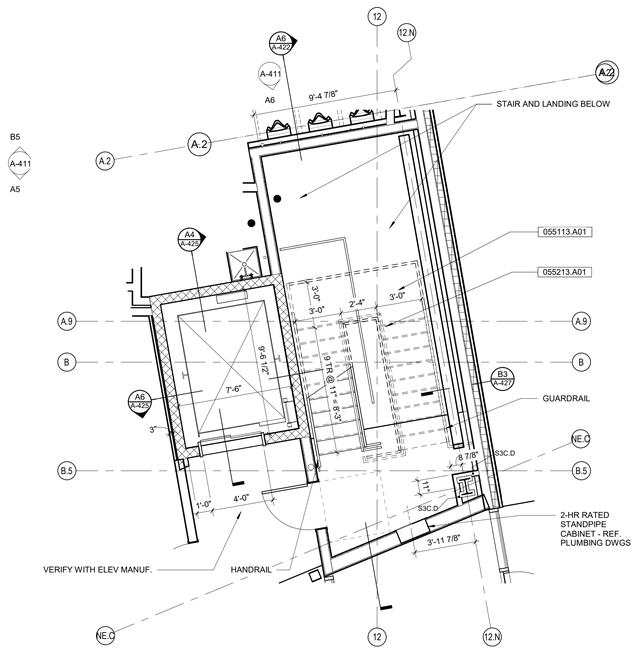
D1 NE STAIR AND ELEVATOR PLAN - UPPER LEVEL
1/4" = 1'-0"



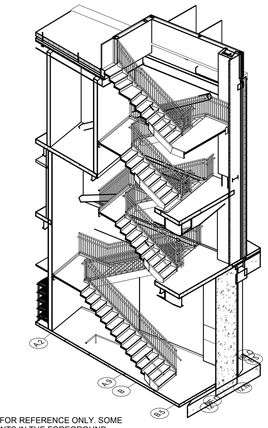
D4 NE STAIR PLAN - LOW ROOF LVL
1/4" = 1'-0"



A1 NE STAIR AND ELEVATOR PLAN - EVENT LEVEL
1/4" = 1'-0"

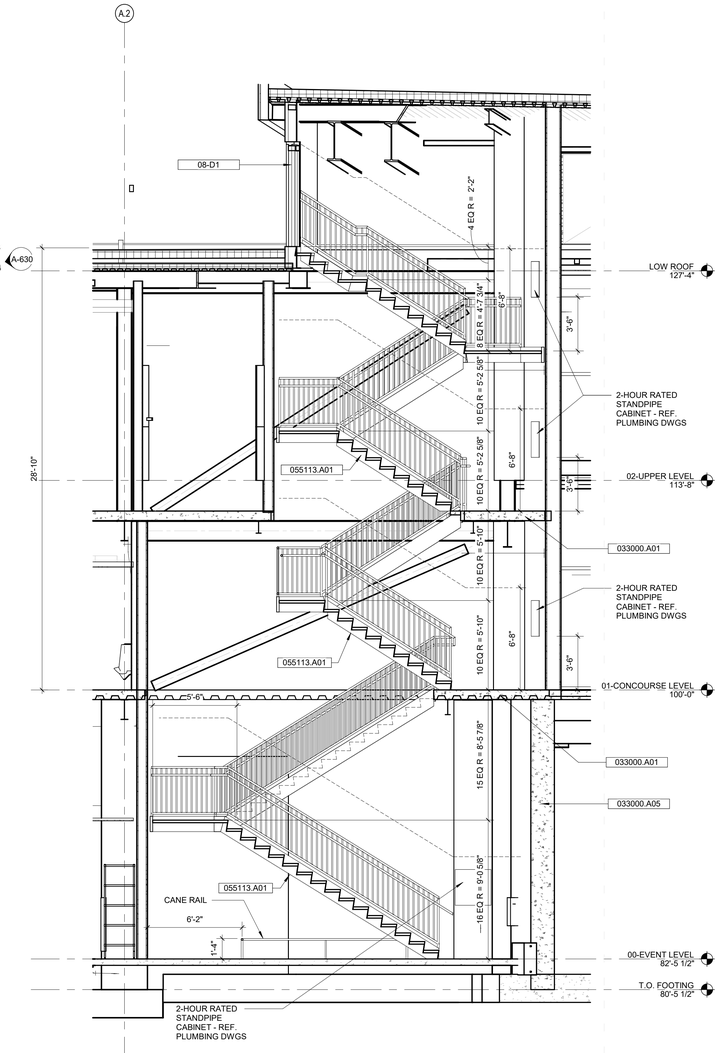


A3 NE STAIR AND ELEVATOR PLAN - CONCOURSE LVL
1/4" = 1'-0"



NOTE: FOR REFERENCE ONLY. SOME ELEMENTS IN THE FOREGROUND HAVE BEEN HIDDEN FOR CLARITY OF STAIR DESIGN INTENT

F6 3D AXON - NE STAIR
A-422



A6 STAIR SECTION - NE STAIR
1/4" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
033000.A05	CAST-IN-PLACE CONCRETE WALL
055113.A01	METAL PAN STAIR WITH CONCRETE FILLED TREADS
055213.A01	STEEL TUBE RAILING

KEYNOTES (ACTION/GENERAL)

00-A1

08-D1	SCHEDULED DOOR

2

GENERAL STAIR NOTES

A. PAINT ALL METAL PAN STAIRS AND ASSOCIATED RAILINGS TO MATCH PT-05 UNLESS NOTED OTHERWISE.

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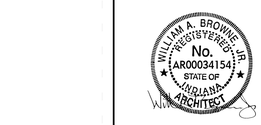

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
STAIR AND ELEVATOR PLANS AND SECTIONS

SHEET NUMBER
A-422

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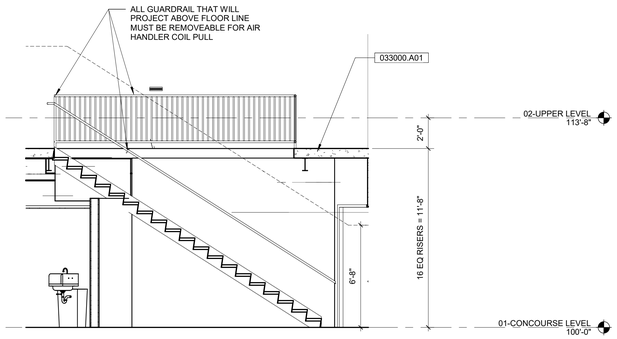
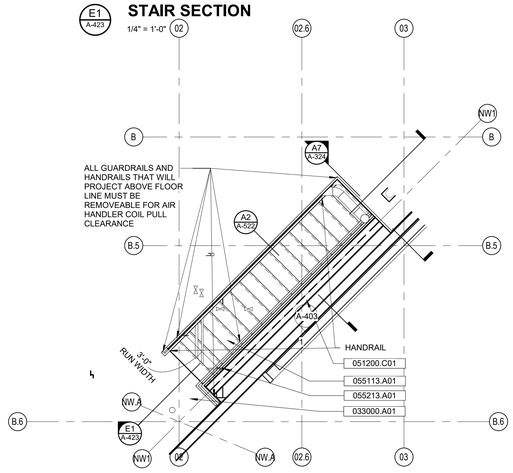
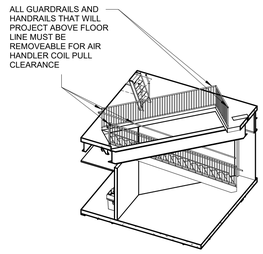


E1 A-423 **STAIR SECTION**

1/4" = 1'-0"

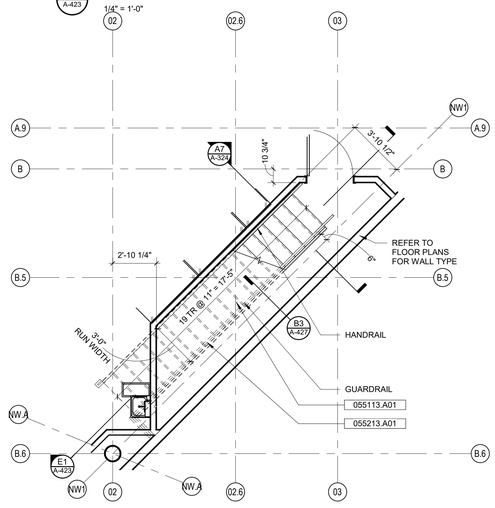




NOTE: FOR REFERENCE ONLY. SOME ELEMENTS IN THE FOREGROUND HAVE BEEN HIDDEN FOR CLARITY OF STAIR DESIGN INTENT

C1 A-423 **VCIRC - NW STAIR UPPER**

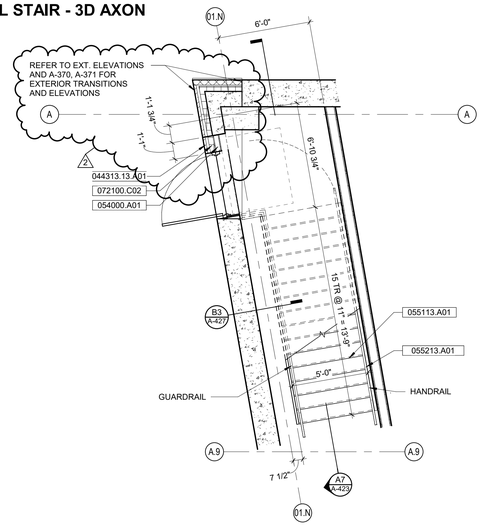
1/4" = 1'-0"



A1 A-423 **VCIRC - NW STAIR CONCOURSE**

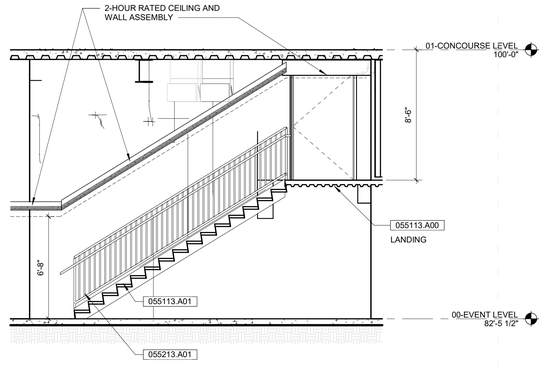
1/4" = 1'-0"

C3 A-423 **NW MECHANICAL STAIR - 3D AXON**



A5 A-423 **ENLARGED STAIR PLAN**

1/4" = 1'-0"



A7 A-423 **STAIR SECTION - NW EGRESS**

1/4" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
051200.C01	STRUCTURAL STEEL FRAMING, BEAM
054000.A01	COLD-FORMED METAL FRAMING - 3 5/8"
055113.A00	METAL PAN STAIRS
055113.A01	METAL PAN STAIR WITH CONCRETE FILLED TREADS
055213.A01	STEEL TUBE RAILING
072100.C02	MINERAL-WOOL BOARD

KEYNOTES (ACTION/GENERAL)

00-A1

GENERAL STAIR NOTES

A. PAINT ALL METAL PAN STAIRS AND ASSOCIATED RAILINGS TO MATCH PT-05 UNLESS NOTED OTHERWISE.

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SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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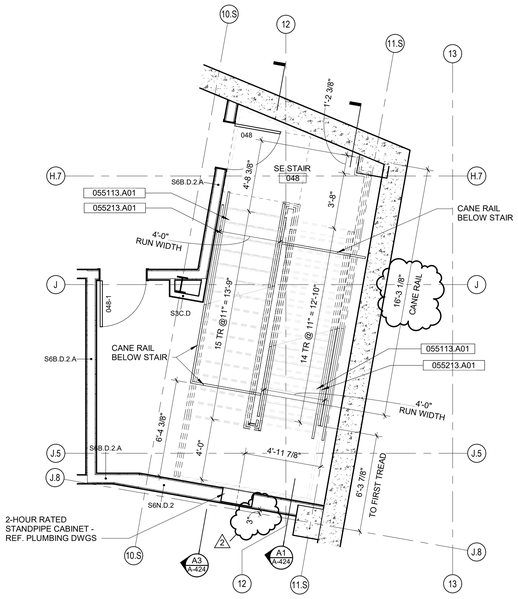
PROJECT NO. 23112.000

SHEET TITLE
STAIR AND ELEVATOR PLANS AND SECTIONS

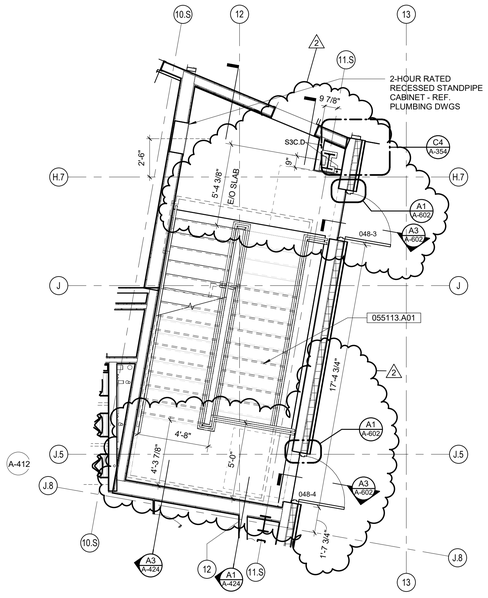
SHEET NUMBER
A-423

1/24/2025 4:07:52 PM



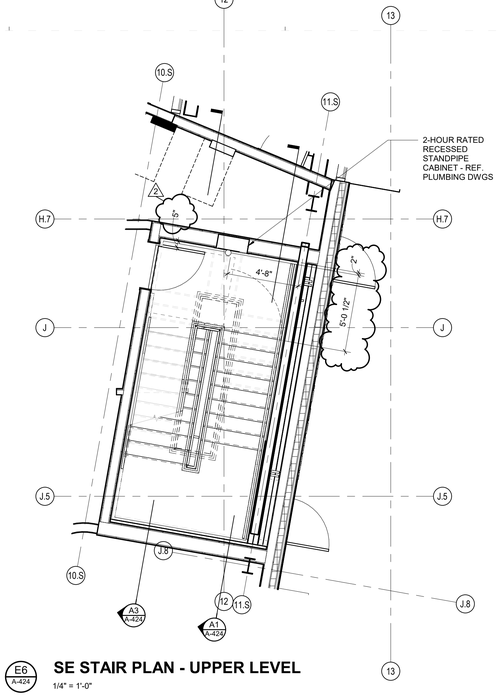
E1 / A-424 **SE STAIR PLAN - EVENT LEVEL**

1/4" = 1'-0"



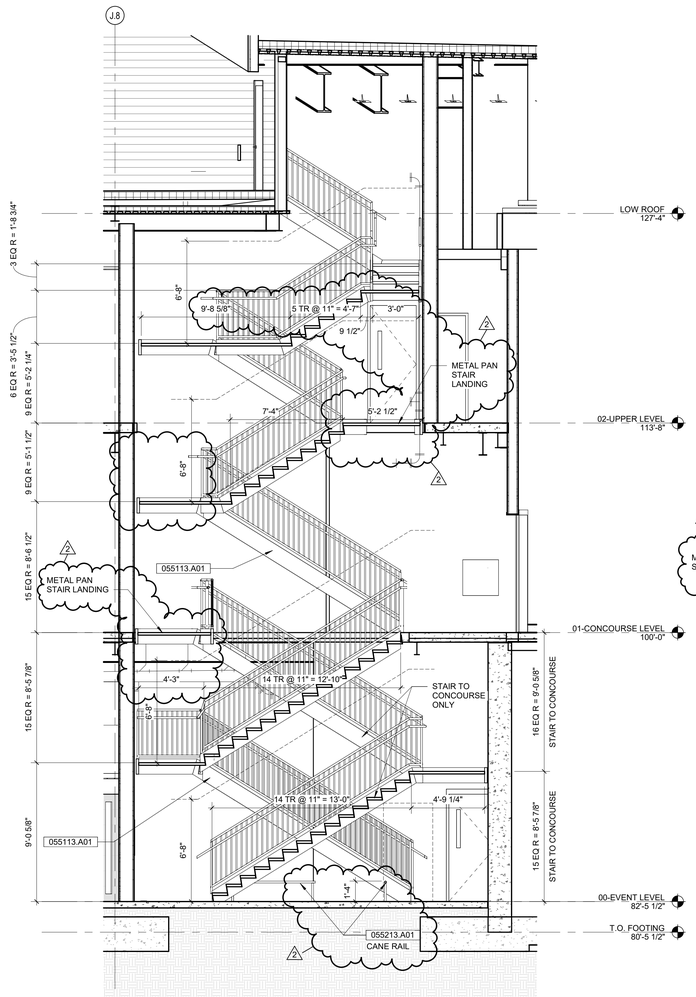
E4 / A-424 **SE STAIR PLAN - CONCOURSE LEVEL**

1/4" = 1'-0"



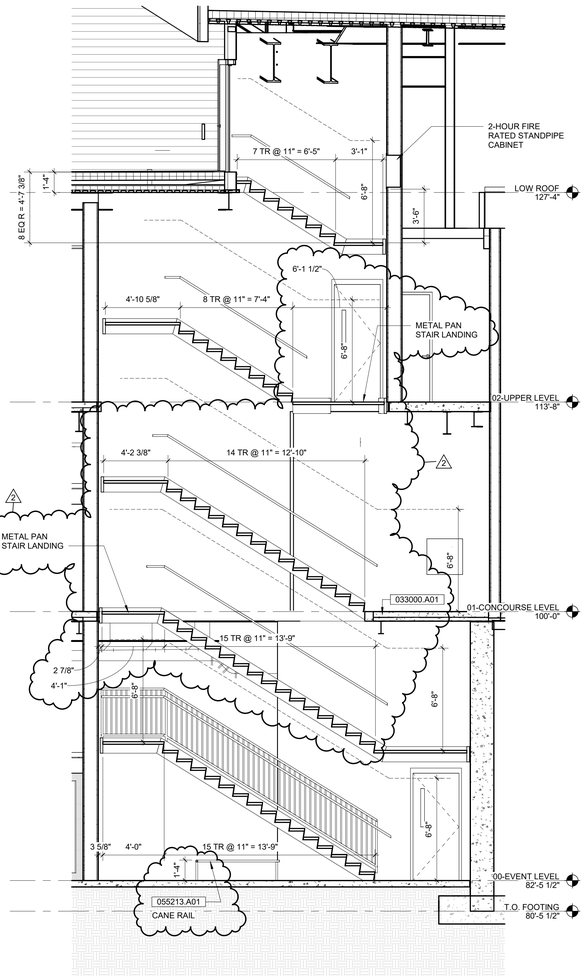
E6 / A-424 **SE STAIR PLAN - UPPER LEVEL**

1/4" = 1'-0"



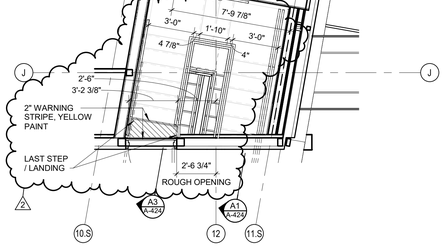
A1 / A-424 **STAIR SECTION - SE EGRESS**

1/4" = 1'-0"



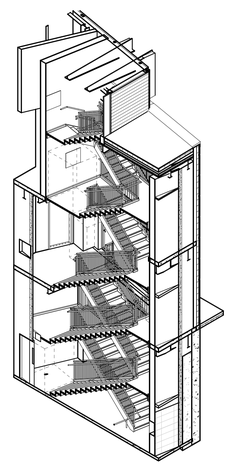
A3 / A-424 **STAIR SECTION - SE EGRESS**

1/4" = 1'-0"



C6 / A-424 **SE STAIR PLAN - ROOF LEVEL**

1/4" = 1'-0"



NOTE: FOR REFERENCE ONLY. SOME ELEMENTS HAVE BEEN HIDDEN FOR CLARITY OF STAIR DESIGN INTENT

A6 / A-424 **3D View - SE Egress Stair**

KEYNOTES (SPEC BASED)

061600.A00

033000.A01	CAST-IN-PLACE CONCRETE, REFERENCE STRUCTURAL
055113.A01	METAL PAN STAIR WITH CONCRETE FILLED TREADS
055213.A01	STEEL TUBE RAILING

KEYNOTES (ACTION/GENERAL)

00-A1

GENERAL STAIR NOTES

A. PAINT ALL METAL PAN STAIRS AND ASSOCIATED RAILINGS TO MATCH PT-05 UNLESS NOTED OTHERWISE.

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE PRESTON REED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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SHEET TITLE
STAIR PLANS AND SECTIONS

SHEET NUMBER
A-424

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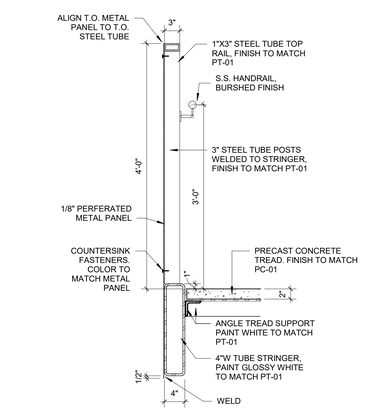
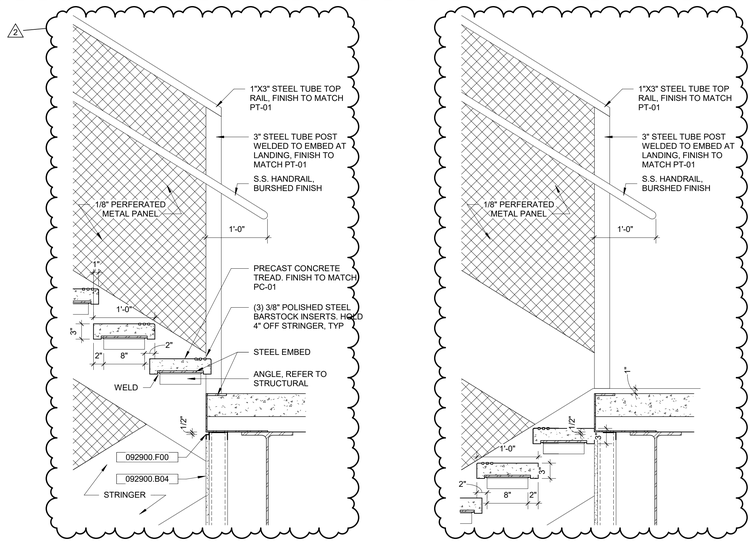


PERFERATED METAL PANELS, TOP RAILS, & POSTS FABRICATED BY METAL MANUFACTURER AMICO OR APPROVED ALTERNATE



E1 A-426

PERF METAL RAILING @ LANDING

1" = 1'-0"

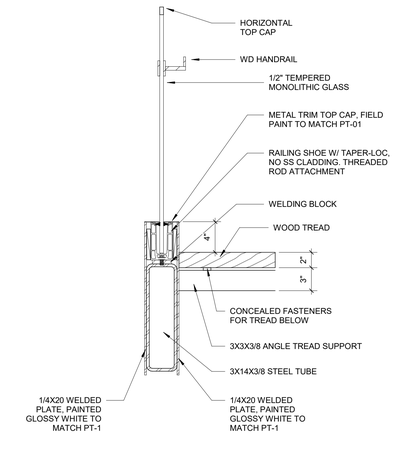
KEYNOTES (SPEC BASED)

061600.A00

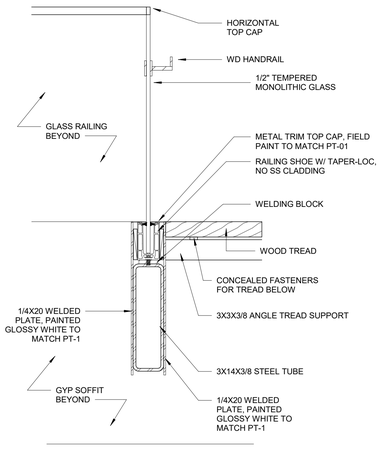
051200.D01	STRUCTURAL STEEL FRAMING, ANGLE
092900.B04	GYPSUM BOARD, 5/8"
092900.F00	GYPSUM BOARD TRIM ACCESSORIES

KEYNOTES (ACTION/GENERAL)

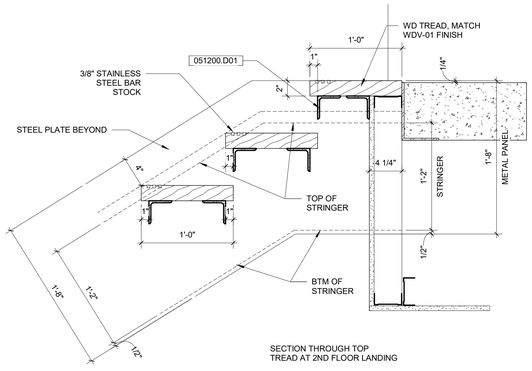
00-A1



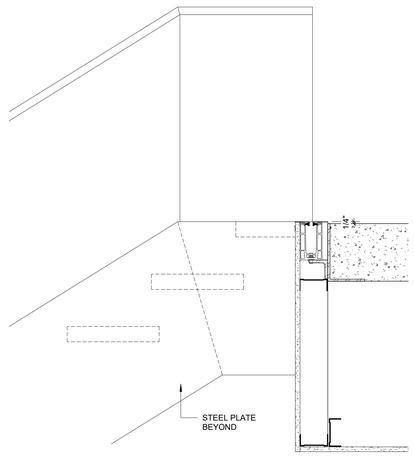
STRINGER SECTION THROUGH TYP TREAD



STRINGER SECTION THROUGH TOP TREAD AT 2ND FLOOR LANDING



SECTION THROUGH TOP TREAD AT 2ND FLOOR LANDING

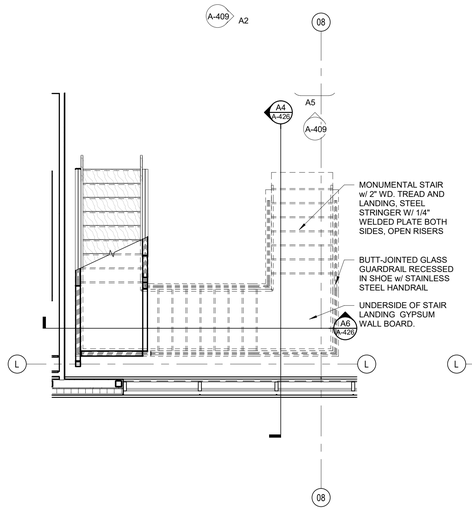


SECTION THROUGH RAILING SIDE VIEW OF 2ND FLOOR LANDING

C1 A-426

STAIRDTL - WD TREAD OPEN RISER

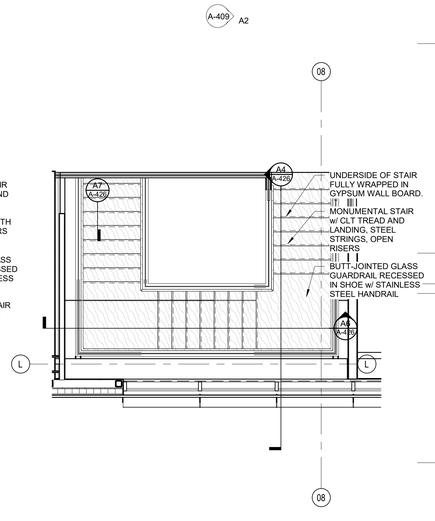
1 1/2" = 1'-0"



A1 A-426

VCIRC - SOUTH STAIR CONC

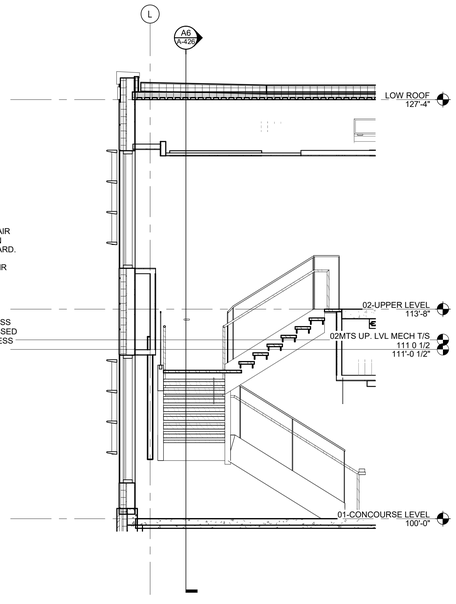
1/4" = 1'-0"



A3 A-426

VCIRC - SOUTH STAIR UPPER

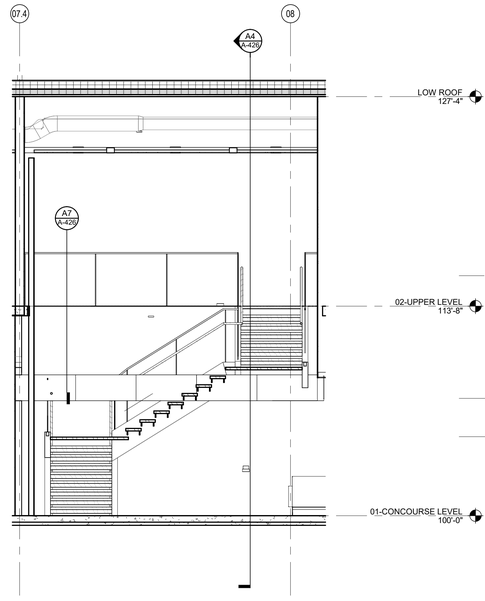
1/4" = 1'-0"



A4 A-426

VCIRC - SOUTH STAIR

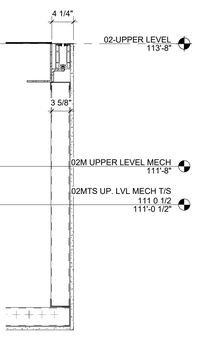
1/4" = 1'-0"



A6 A-426

VCIRC - SOUTH STAIR 1

1/4" = 1'-0"



A7 A-426

RAILING - STAIR OPENING - T&F

1" = 1'-0"

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE III REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
MONUMENTAL STAIR SECTIONS & DETAILS

SHEET NUMBER
A-426

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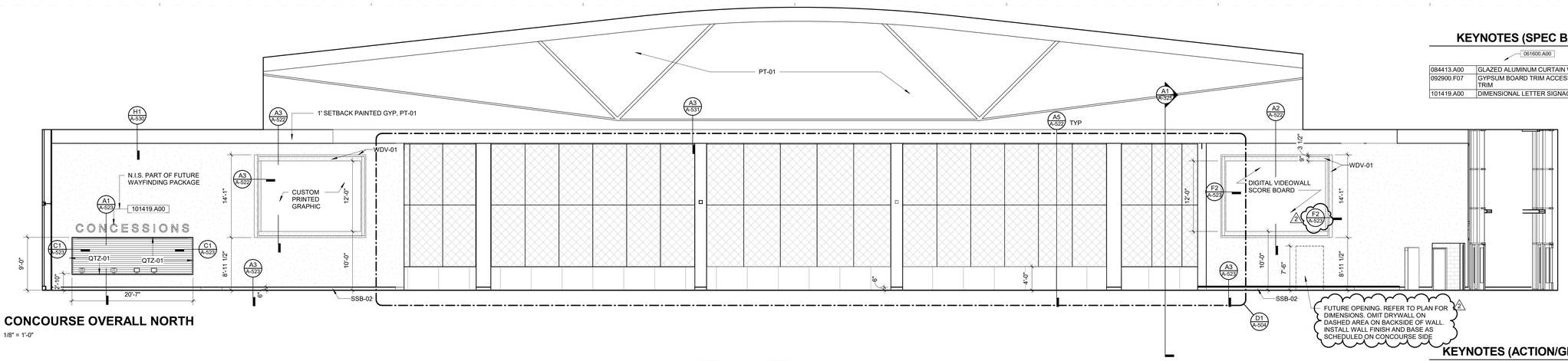
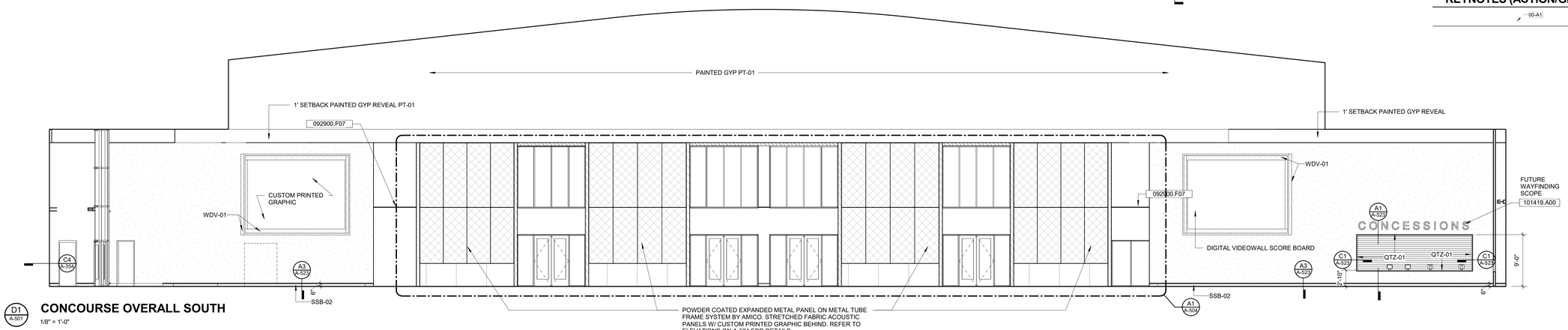


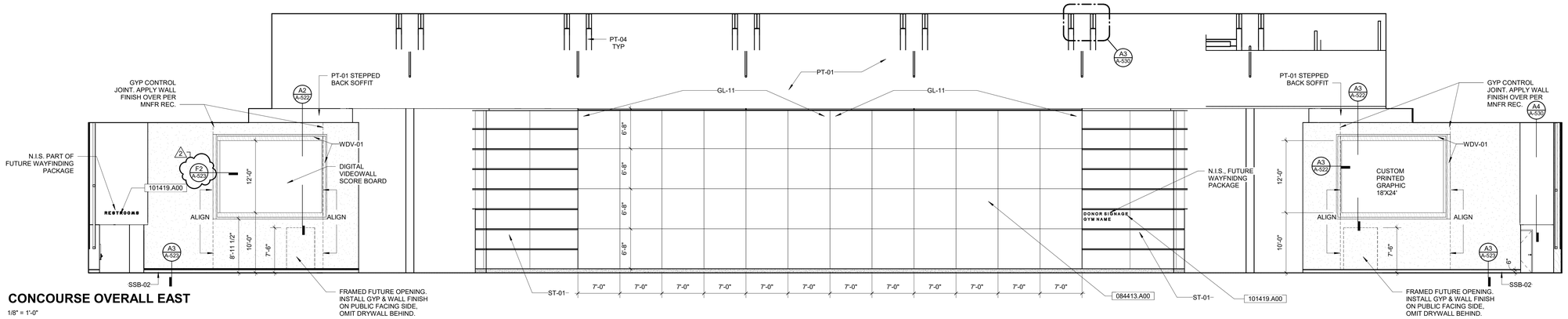
F1 A-501 **CONCOURSE OVERALL NORTH**

1/8" = 1'-0"



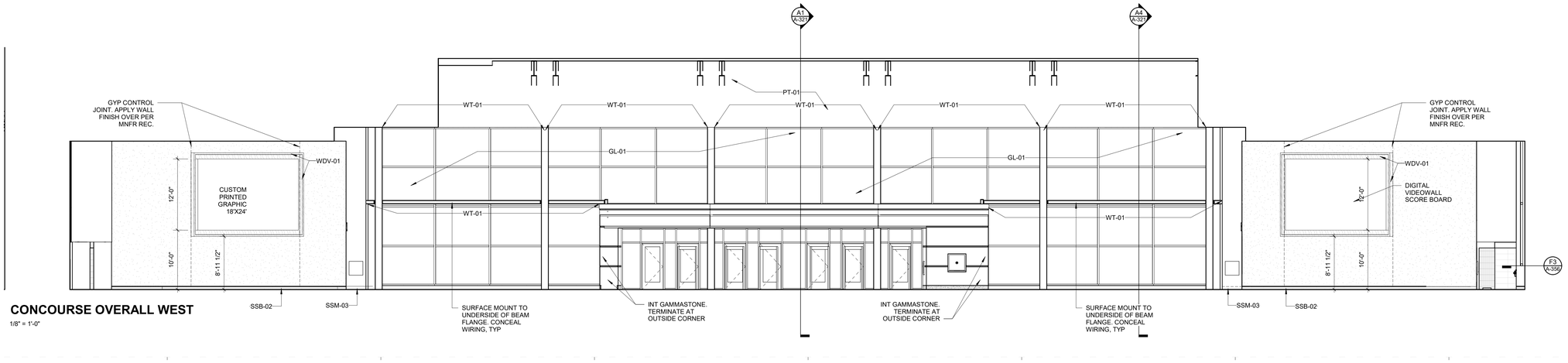
D1 A-501 **CONCOURSE OVERALL SOUTH**

1/8" = 1'-0"



C1 A-501 **CONCOURSE OVERALL EAST**

1/8" = 1'-0"



A1 A-501 **CONCOURSE OVERALL WEST**

1/8" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

084413.A00	GLAZED ALUMINUM CURTAIN WALLS
092900.F07	GYPSUM BOARD TRIM ACCESSORIES, Z REVEAL TRIM
101419.A00	DIMENSIONAL LETTER SIGNAGE

KEYNOTES (ACTION/GENERAL)

00-A1

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PROJECT NO. 23112.000

SHEET TITLE
INTERIOR ELEVATIONS

SHEET NUMBER
A-501

1/26/2025 9:47:15 PM

KEYNOTES (SPEC BASED)

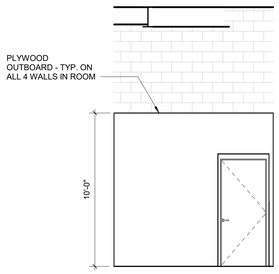
061600.A00

084113.B03	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
220000.A00	PLUMBING EQUIPMENT/FIXTURE REFERENCE PLUMBING DRAWINGS

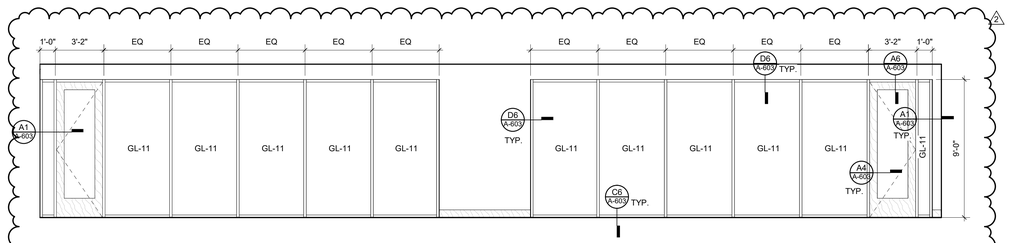
KEYNOTES (ACTION/GENERAL)

00-A1

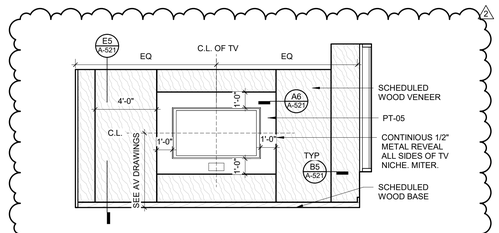
00-D4	REFER TO FINISH PLAN FOR FINISH TYPE



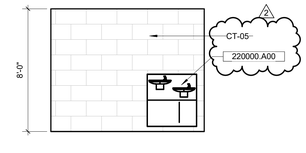
E2 / A-503 **INTERIOR ELEVATION**
1/4" = 1'-0"



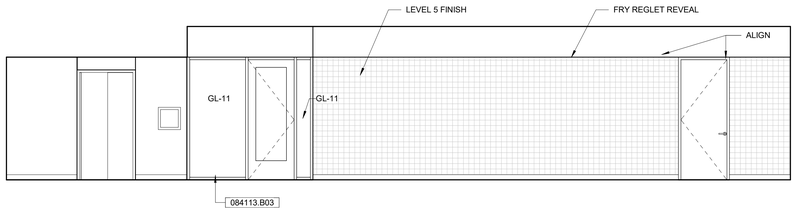
D1 / A-503 **C.F. CORRIDOR 115 SOUTH**
1/4" = 1'-0"



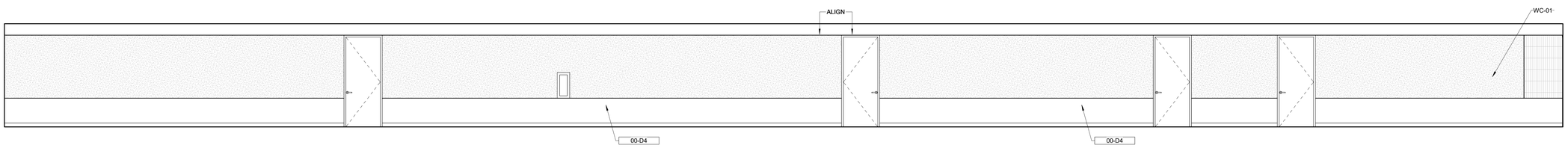
D5 / A-503 **C.F. CONFERENCE 115B EAST**
1/4" = 1'-0"



D7 / A-503 **SUPPORT 115F WATERFOUNTAIN**
1/4" = 1'-0"



C4 / A-503 **INTERIOR ELEVATION**
1/4" = 1'-0"



A1 / A-503 **INTERIOR ELEVATION**
1/4" = 1'-0"

1/26/2025 9:47:27 PM

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FORT LAUDERDALE, FL 33309
954-846-9600

Code Consultant
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2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, III
REGISTERED
No. AR00034154
STATE OF INDIANA
ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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PROJECT NO. 23112.000

SHEET TITLE
INTERIOR ELEVATIONS

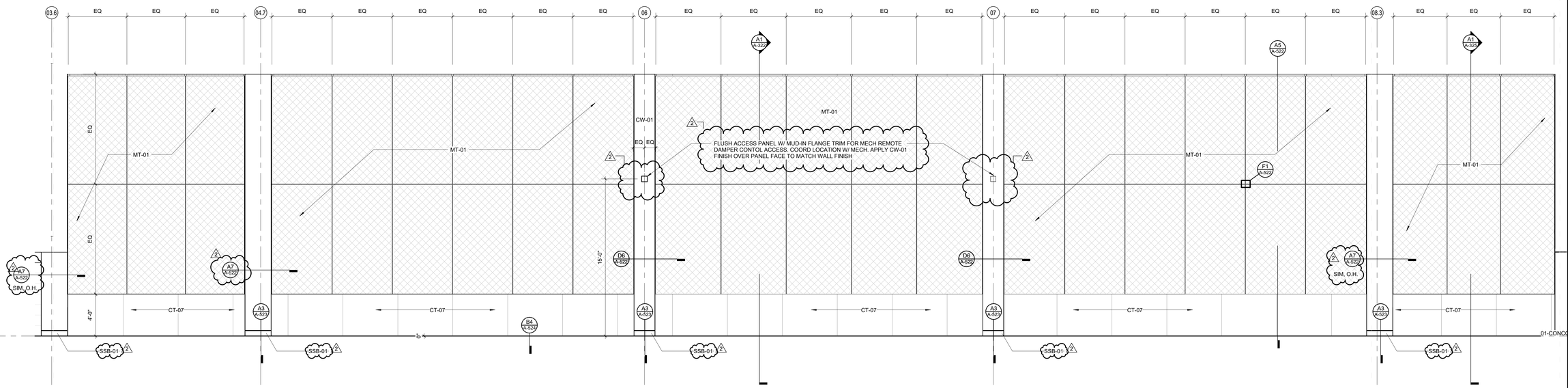
SHEET NUMBER
A-503

KEYNOTES (SPEC BASED)

061600.A00

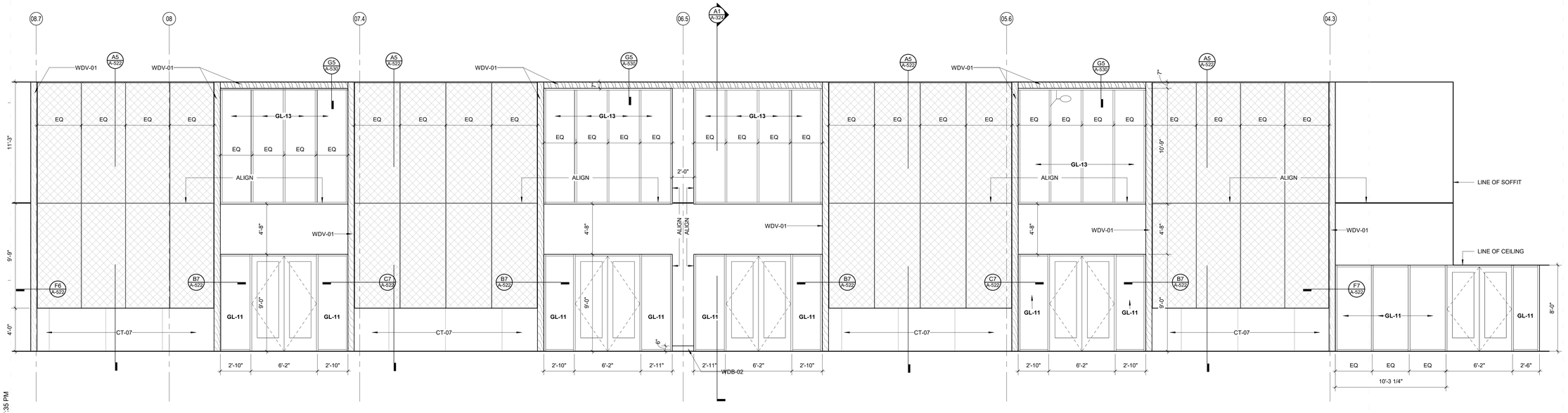
KEYNOTES (ACTION/GENERAL)

00-A1



D1 A-504 **NORTH METAL WALL**

1/4" = 1'-0"



A1 A-504 **SOUTH METAL WALL**

1/4" = 1'-0"

1/26/2025 9:47:35 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
INDIANA UNIVERSITY BOARD OF TRUSTEES
2901 EAST DISCOVERY PARKWAY
BLOOMINGTON, IN 47408
812-855-1692

Architect
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101 SOUTH PENNSYLVANIA STREET
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SUITE 126
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317-872-8400

Mechanical / Electrical
INTROBA
8250 HAVERSTICK ROAD
SUITE 285
INDIANAPOLIS, IN 46240
800-404-7677

Plumbing Engineer
DLZ
138 N. DELAWARE ST
INDIANAPOLIS, IN 46204
317-633-4120

Acoustics / Technology Engineer
WJHW
7220 W. JEFFERSON AVE
SUITE 216
LAKEWOOD, CO 80235
972-934-3700

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AMERICAN STRUCTUREPOINT, INC.
9025 RIVER ROAD
SUITE 200
INDIANAPOLIS, IN 46240
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2502 WEST MECHANIC ST, SUITE C
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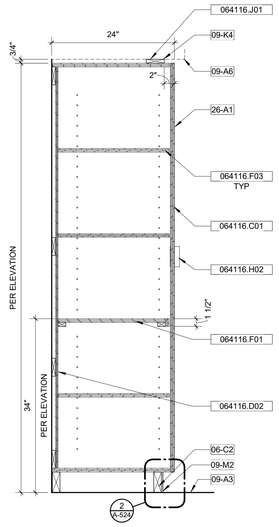
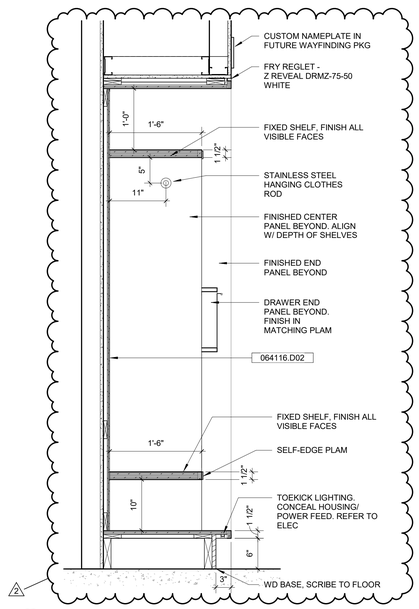
PROJECT NO. 23112.000

SHEET TITLE
INTERIOR ELEVATIONS

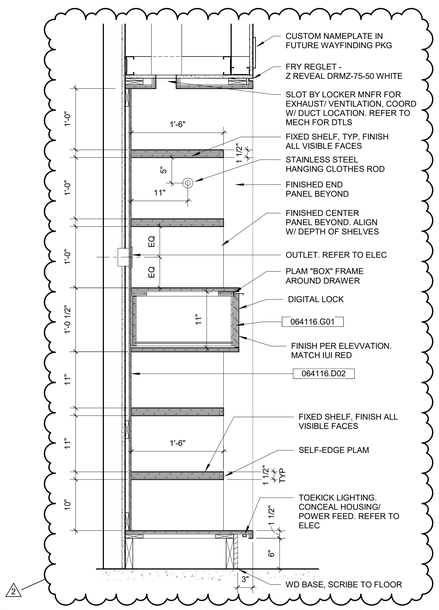
SHEET NUMBER
A-504



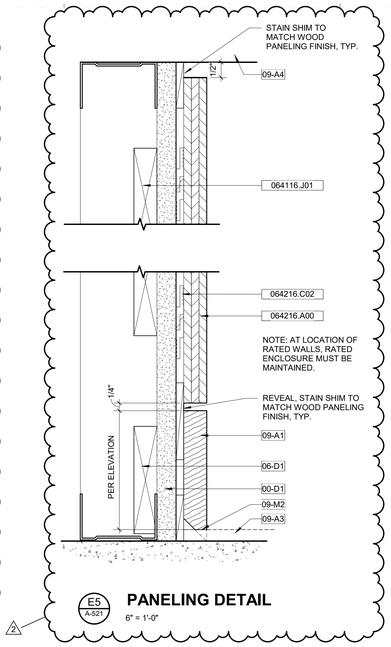
E1 A-521 **FULL HEIGHT CABINET**
1" = 1'-0"



E2 A-521 **TYPICAL LOCKER - HANGING ROD/FIXED SHELF**
1" = 1'-0"



E4 A-521 **TYPICAL LOCKER - FIXED SHELVING**
1" = 1'-0"

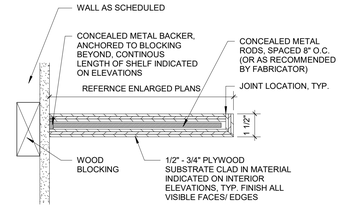


E5 A-521 **PANELING DETAIL**
6" = 1'-0"

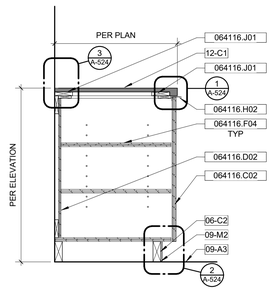
KEYNOTES (SPEC BASED)

061600.A00

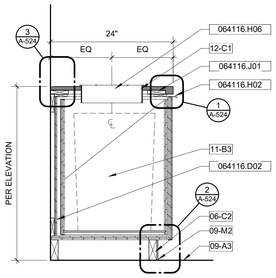
064116.B02	PANEL, 3/4"
064116.B04	REMOVABLE PANEL
064116.C01	DOOR PANEL
064116.C02	DOOR PANEL, 3/4", REFER TO ELEVATION FOR FINISH
064116.D02	BACK PANEL, 1/2" ON CLEATS, REFER TO SPECIFICATIONS FOR FINISH
064116.F01	SHELF
064116.F03	ADJUSTABLE SHELF
064116.F04	ADJUSTABLE SHELF, 3/4"
064116.G01	DRAWER
064116.G04	FILE DRAWER WITH HANGING BAR HARDWARE
064116.G06	FIXED APRON, 3/4", ALIGN FACE WITH ADJACENT DRAWERS
064116.H02	HARDWARE, PULL
064116.H04	HARDWARE, ROLLER CATCH, NO EXPOSED FASTENERS
064116.H06	HARDWARE, TRASH GROMMET, REFER TO SPECIFICATIONS FOR SIZE
064116.J01	BLOCKING
064216.A00	FLUSH WOOD PANELING
064216.C02	FLUSH WOOD PANELING, CONCEALED PANEL-HANGER CLIPS



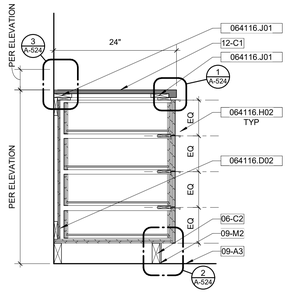
E6 A-521 **FLOATING SHELF - TYPICAL DETAIL**
3" = 1'-0"



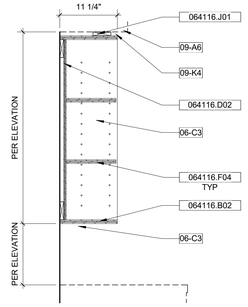
D1 A-521 **DOOR BASE CABINET**
1" = 1'-0"



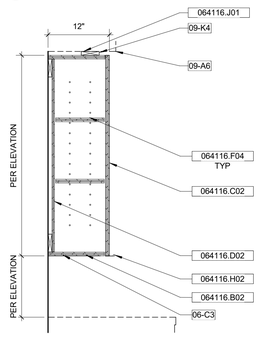
D2 A-521 **TRASH DRAWER BASE CABINET**
1" = 1'-0"



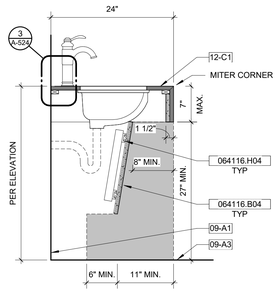
D4 A-521 **DRAWER BASE CABINET (4 DRAWERS)**
1" = 1'-0"



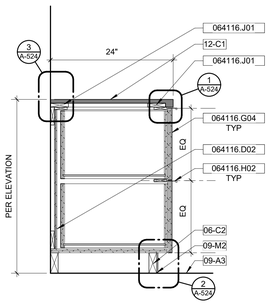
D5 A-521 **UPPER CABINET OPEN SHELVES**
1" = 1'-0"



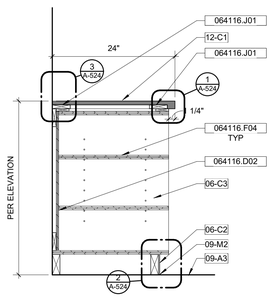
D6 A-521 **UPPER CABINET**
1" = 1'-0"



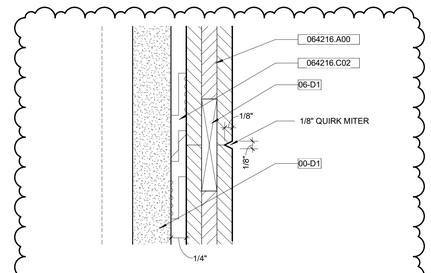
B1 A-521 **TYP. LOCKER SINK BASE ADA**
1" = 1'-0"



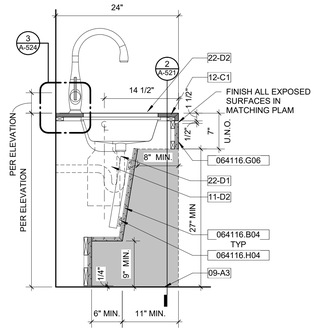
B2 A-521 **DRAWER BASE CABINET (2 DRAWERS)**
1" = 1'-0"



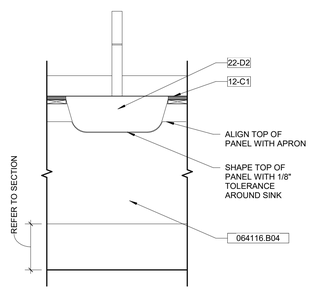
B4 A-521 **BASE CABINET OPEN SHLEVES**
1" = 1'-0"



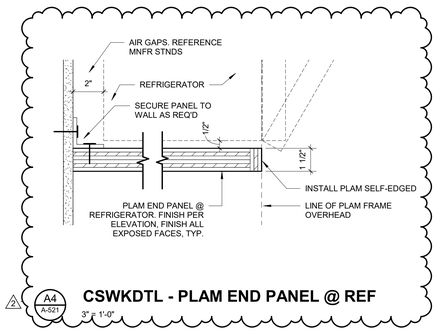
B5 A-521 **PANELING DETAIL**
12" = 1'-0"



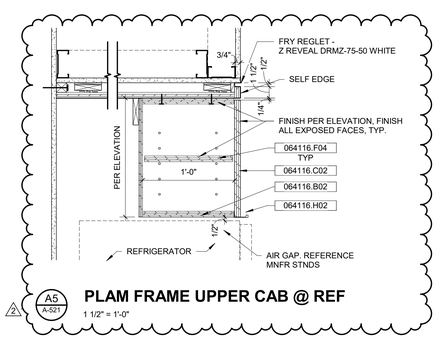
A1 A-521 **TYP. KITCHEN SINK BASE ADA**
1" = 1'-0"



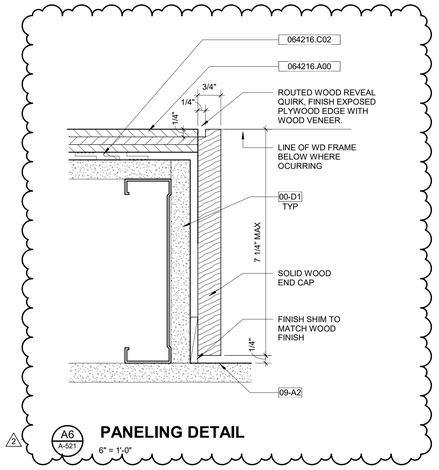
2 A-521 **TYP. KITCHEN SINK BASE ADA**
1" = 1'-0"



A4 A-521 **CSWKDTL - PLAM END PANEL @ REF**
3" = 1'-0"



A5 A-521 **PLAM FRAME UPPER CAB @ REF**
1 1/2" = 1'-0"



A6 A-521 **PANELING DETAIL**
6" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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2901 EAST DISCOVERY PARKWAY
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Architect
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Structural Engineer
FINK ROBERTS AND PETRIE, INC.
3535 EAST 96TH STREET
SUITE 126
INDIANAPOLIS, IN 46240
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8250 HAVERSTICK ROAD
SUITE 285
INDIANAPOLIS, IN 46240
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Plumbing Engineer
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138 N. DELAWARE ST
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WJHW
7220 W. JEFFERSON AVE
SUITE 216
LAKEWOOD, CO 80235
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AMERICAN STRUCTUREPOINT, INC.
9025 RIVER ROAD
SUITE 200
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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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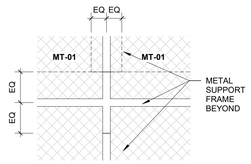
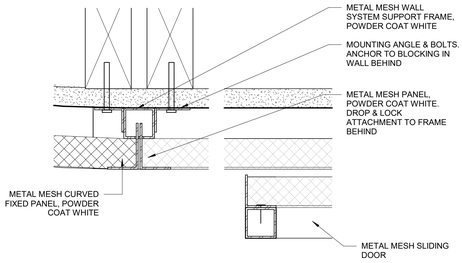
PROJECT NO. 23112.000

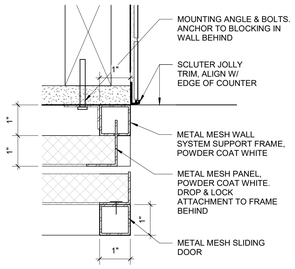
SHEET TITLE
INTERIOR DETAILS

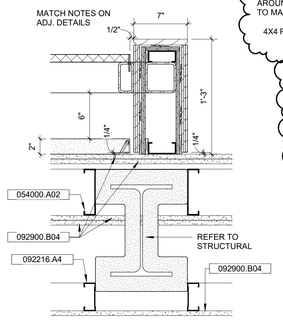
SHEET NUMBER
A-521

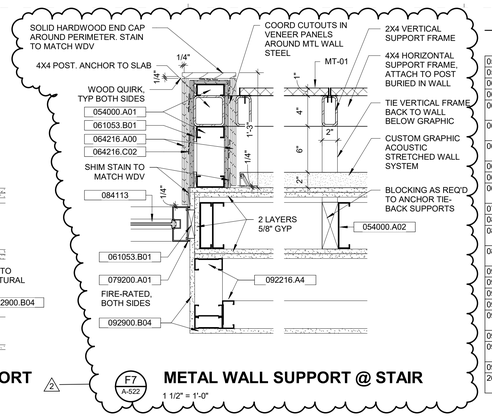
1/26/2025 9:47:47 PM









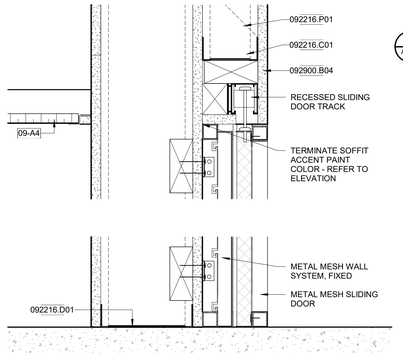


KEYNOTES (SPEC BASED)

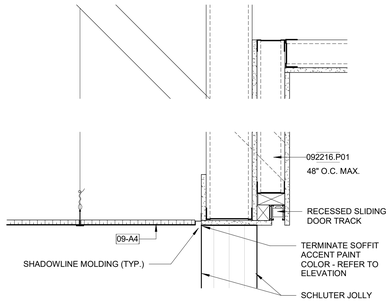
061600.A00

054000.A01	COLD-FORMED METAL FRAMING - 3 5/8"
054000.A02	COLD-FORMED METAL FRAMING - 6"
061000.E01	WOOD BLOCKING
061053.B01	WOOD BLOCKING
061053.F01	MISCELLANEOUS ROUGH CARPENTRY, PLYWOOD
064116.C02	DOOR PANEL, 3/4", REFER TO ELEVATION FOR FINISH
064116.D02	BACK PANEL, 1/2" ON CLEATS, REFER TO SPECIFICATIONS FOR FINISH
064116.F04	ADJUSTABLE SHELF, 3/4"
064216.A00	FLUSH WOOD PANELING
064216.C02	FLUSH WOOD PANELING, CONCEALED PANEL-HANGER CLIPS
079200.A01	SEALANT
081113.A00	HOLLOW METAL DOORS AND FRAMES
084113	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084113.A01	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
092216.A01	1 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092216.A4	
092216.C01	3 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092216.D01	6" METAL STUD FRAMING, NON-STRUCTURAL
092216.P01	NON-STRUCTURAL METAL STUD BRACING, EXTEND TO STRUCTURE
092900.B04	GYPSUM BOARD, 5/8"
092900.F03	GYPSUM BOARD TRIM ACCESSORIES, L CASING BEAD
093000.C00	METAL EDGE STRIP
260000.B01	LIGHT FIXTURE, REFERENCE ELECTRICAL DRAWINGS

F1 A-522 **METAL PANEL INTERSECTION**
3" = 1'-0"



F2 A-522 **PLAN DTL - MTL SLIDING DOOR @ END**
6" = 1'-0"

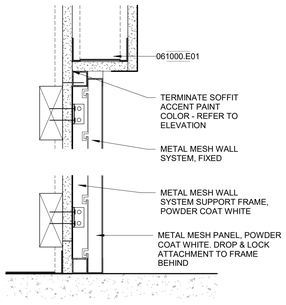


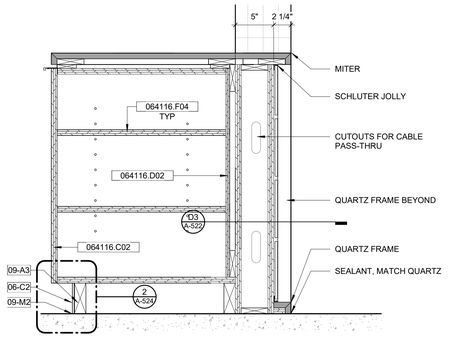
F3 A-522 **MT-02 SLIDING DOOR @ OPENING**
6" = 1'-0"

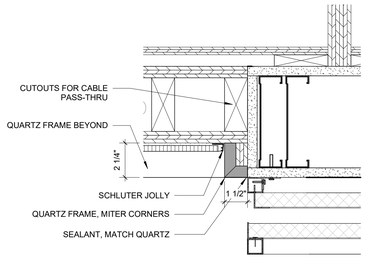
F6 A-522 **METAL WALL SUPPORT**
1 1/2" = 1'-0"

F7 A-522 **METAL WALL SUPPORT @ STAIR**
1 1/2" = 1'-0"

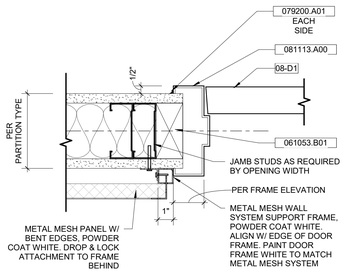
D1 A-522 **METAL WALL NUTRITION SLIDING**
3" = 1'-0"



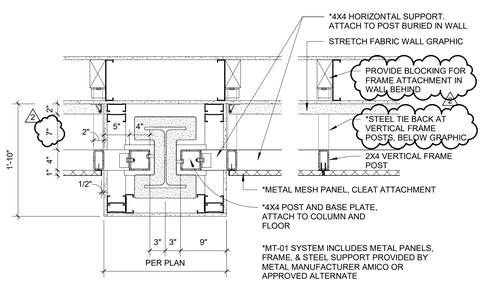


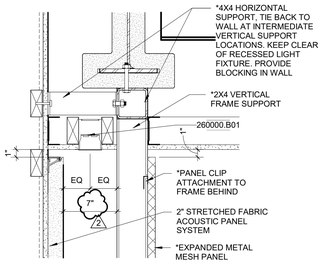


D3 A-522 **PLANDTL - NUTRITION COUNTER QZ FRAME**
3" = 1'-0"



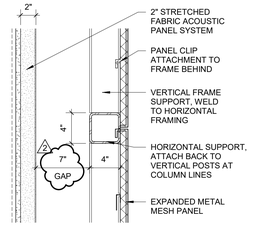
D6 A-522 **METAL WALL SUPPORT AT COLUMN**
1" = 1'-0"



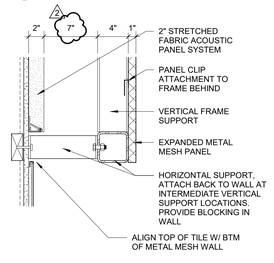


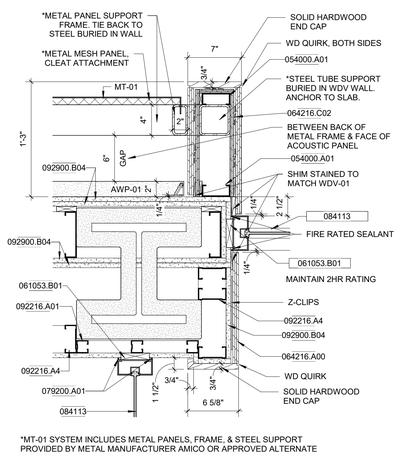
2 *MT-01 SYSTEM INCLUDES METAL PANELS, FRAME, & STEEL SUPPORT PROVIDED BY METAL MANUFACTURER AMICO OR APPROVED ALTERNATE

C6 A-522 **METAL WALL TOP**
1 1/2" = 1'-0"



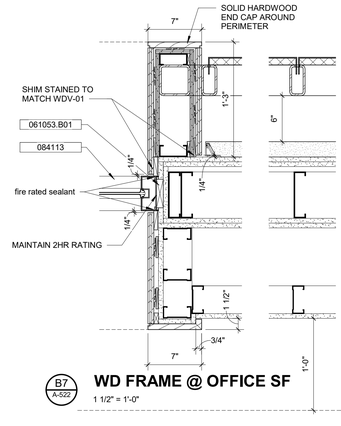
B6 A-522 **METAL WALL TIE BACK**
1 1/2" = 1'-0"



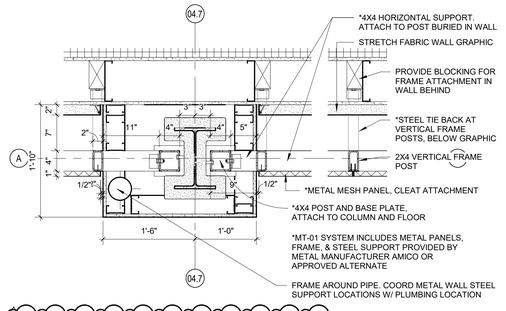


*MT-01 SYSTEM INCLUDES METAL PANELS, FRAME, & STEEL SUPPORT PROVIDED BY METAL MANUFACTURER AMICO OR APPROVED ALTERNATE

C7 A-522 **WD FRAME @ OFFICE SF W/ COLUMN**
1 1/2" = 1'-0"

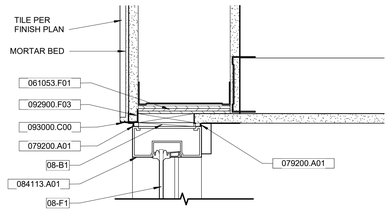


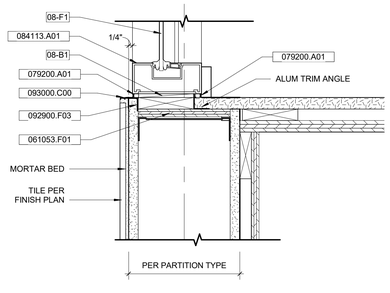
B7 A-522 **WD FRAME @ OFFICE SF**
1 1/2" = 1'-0"



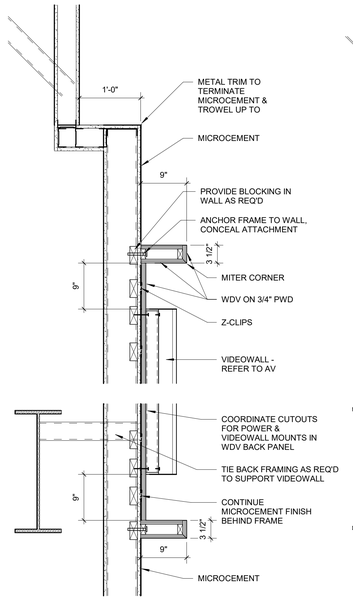
2 A7 A-522 **METAL WALL SUPPORT AT PIPE**
1" = 1'-0"

C1 A-522 **METAL WALL NUTRITION FIXED**
3" = 1'-0"

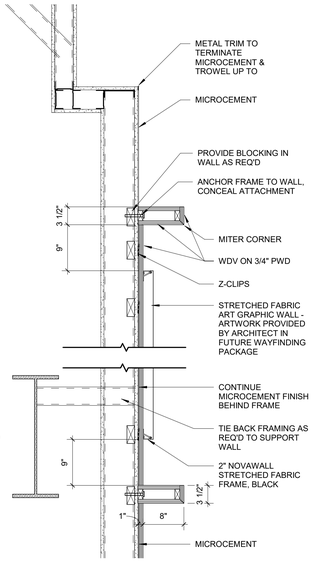


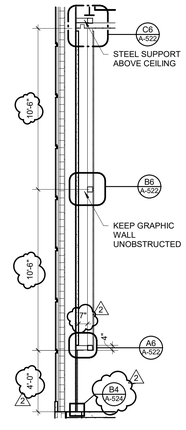


C2 A-522 **METAL WALL NUTRITION OPENING**
1 1/2" = 1'-0"



C3 A-522 **PLANDTL - METAL MESH AT DOOR**
3" = 1'-0"





A1 A-522 **E.F. TRAINING EAST**
3" = 1'-0"

A2 A-522 **WD FRAME @ VIDEOWALL**
1" = 1'-0"

A3 A-522 **WD FRAME @ ART WALL**
1" = 1'-0"

A5 A-522 **MTL/ STRETCH FAB WALL**
1/4" = 1'-0"

A6 A-522 **METAL WALL BTM**
1 1/2" = 1'-0"

1/26/2025 9:48:11 PM

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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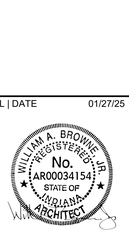
954-846-9600

Code Consultant
FORZA
2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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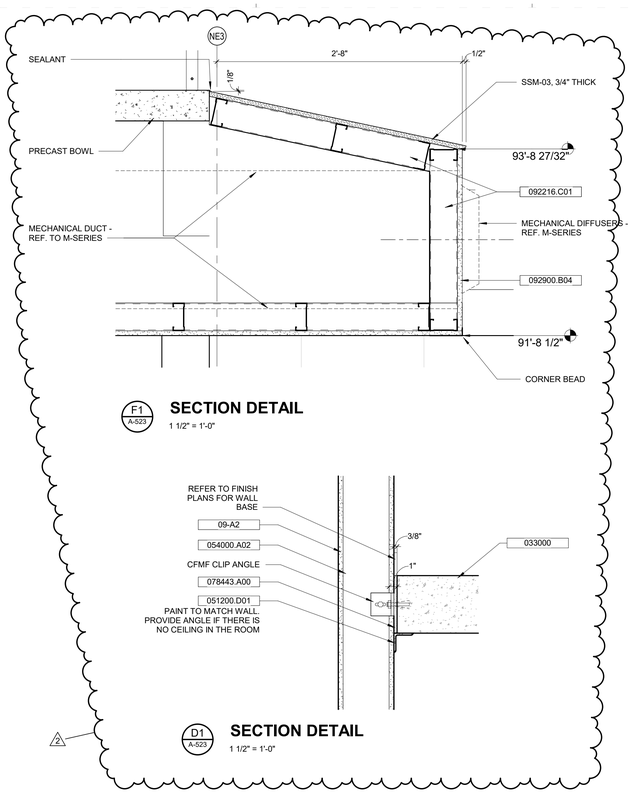
PROJECT NO. 23112.000

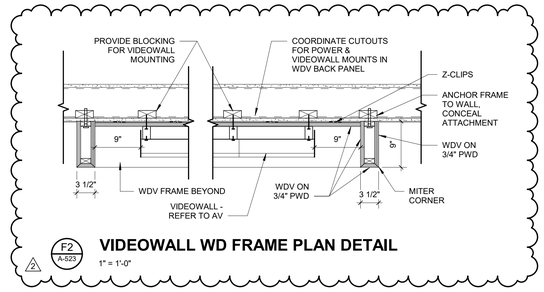
SHEET TITLE
INTERIOR DETAILS

SHEET NUMBER
A-522

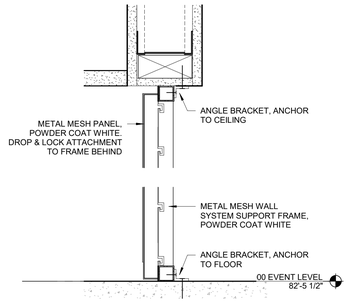


F1 A-523 **SECTION DETAIL**
1 1/2" = 1'-0"

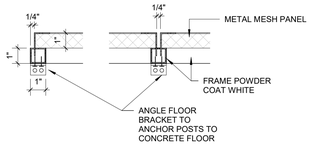
2 D1 A-523 **SECTION DETAIL**
1 1/2" = 1'-0"



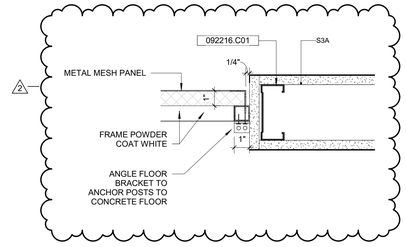
2 F2 A-525 **VIDEOWALL WD FRAME PLAN DETAIL**
1" = 1'-0"



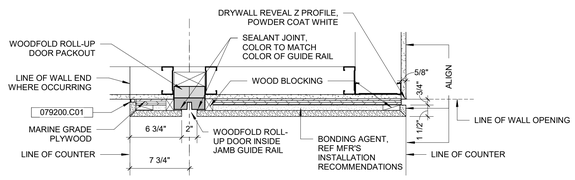
D3 A-523 **SECDTL - METAL WALL ATHLETE LOUNGE**
3" = 1'-0"



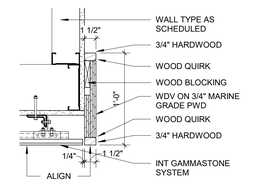
D4 A-523 **SECDTL - METAL WALL FREESTANDING END**
3" = 1'-0"



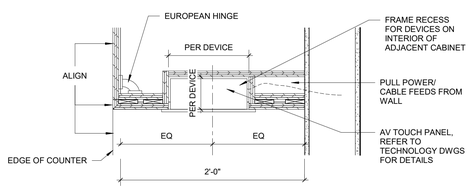
2 D6 A-523 **SECDTL - METAL WALL FREESTANDING END AT WALL**
3" = 1'-0"



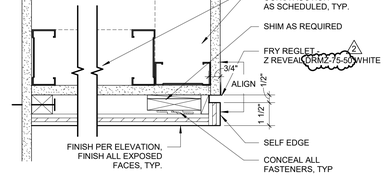
C1 A-523 **CLNGDTL - QUARTZ FRAME CONCESSIONS**
1 1/2" = 1'-0"



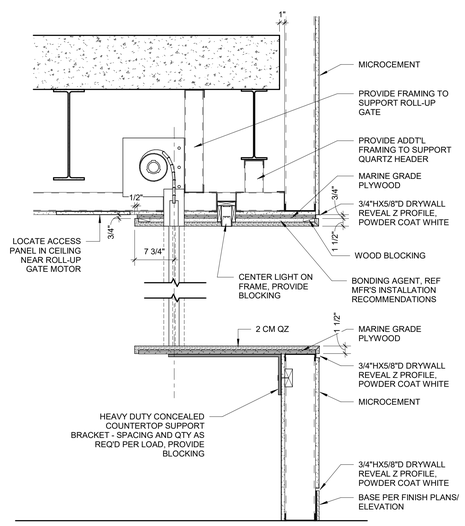
C3 A-523 **WD FRAME @ INT GAMMASTONE**
1 1/2" = 1'-0"



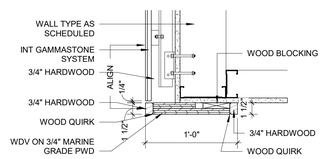
C4 A-523 **PLANDTL - CSWK CONTROL PANEL RECESS**
1 1/2" = 1'-0"



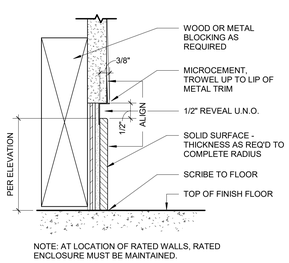
C6 A-523 **CASEWORK NICHE, TYPICAL WRAP**
3" = 1'-0"



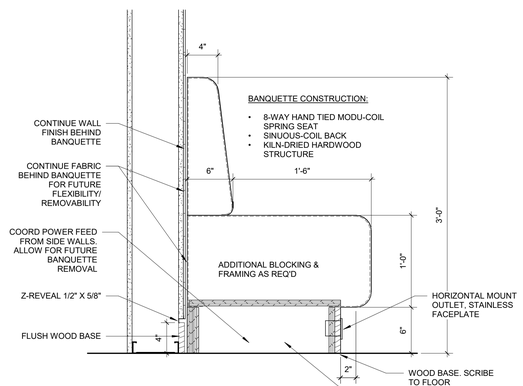
A1 A-523 **QUARTZ FRAME HEADER ROLL UP GATE**
1" = 1'-0"



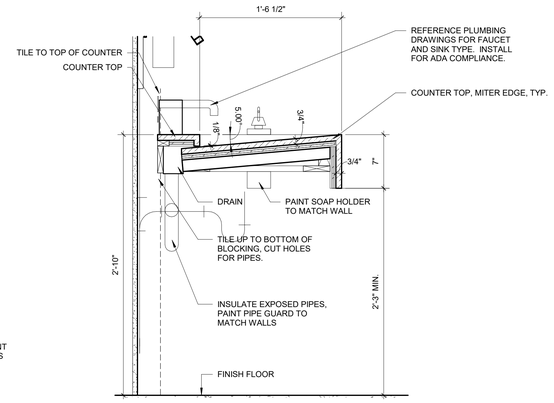
B3 A-523 **WD FRAME HEAD @ INT GAMMASTONE**
1 1/2" = 1'-0"



A3 A-523 **RECESSED BASE SSM**
6" = 1'-0"



A4 A-523 **BANQUETTE SECTION**
1 1/2" = 1'-0"



A6 A-523 **PUBLIC RR VANITY SECTION**
1 1/2" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

033000	CAST-IN-PLACE CONCRETE (VERIFY NUMBERING WITH CONSULTANT)
051200.D01	STRUCTURAL STEEL FRAMING, ANGLE
054000.A02	COLD-FORMED METAL FRAMING - 6"
078443.A00	JOINT FIRESTOPPING
079200.C01	BACKER ROD AND SEALANT
092216.C01	3 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092900.B04	GYPSUM BOARD, 5/8"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
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IU Project NO. 20240127

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Plumbing Engineer
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Code Consultant
FORZA
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HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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PROJECT NO. 23112.000

SHEET TITLE
INTERIOR DETAILS

SHEET NUMBER
A-523

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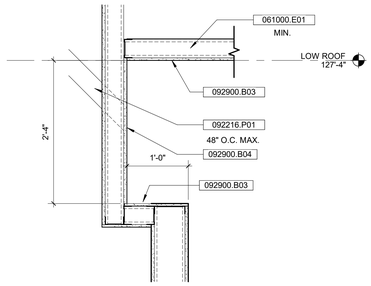
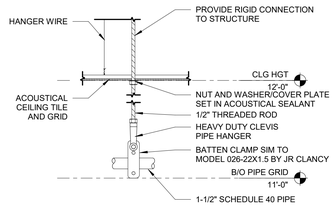




NOTE: HANGERS TO BE DESIGNED TO SUPPORT WEIGHT OF GRID PLUS 30 POUNDS PER LINEAL FOOT OF PIPE. SPACE SUPPORTS AT MAXIMUM OF 10'-0" OC. CONFIRM/ COORD W/ STRUCTURAL & ELECTRICAL

KEYNOTES (ACTION/GENERAL)

00-A1

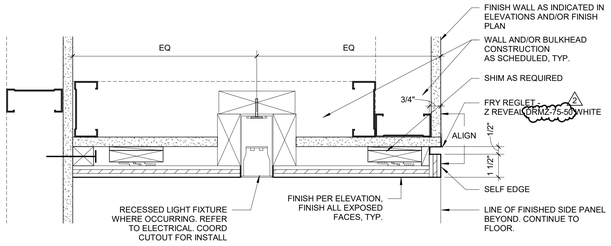
09-A4	CEILING, REFER TO REFLECTED CEILING PLAN FOR TYPE
09-K1	PAINTED
09-K2	PAINTED, MATCH SURROUNDING ELEMENTS

KEYNOTES (SPEC BASED)

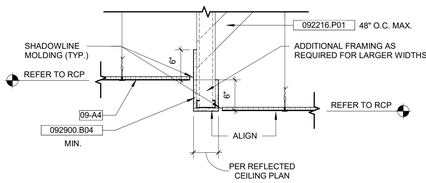
061600.A00

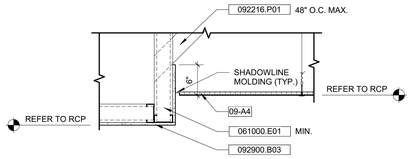
061000.E01	WOOD BLOCKING
084113	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
092216.C01	3 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092216.M00	SUSPENSION SYSTEMS FOR INTERIOR CEILINGS AND SOFFITS
092216.P01	NON-STRUCTURAL METAL STUD BRACING, EXTEND TO STRUCTURE
092900.B03	GYPSUM BOARD, 1/2"
092900.B04	GYPSUM BOARD, 5/8"
092900.F04	GYPSUM BOARD TRIM ACCESSORIES, J CASING BEAD
093000.C00	METAL EDGE STRIP
260000.B01	LIGHT FIXTURE, REFERENCE ELECTRICAL DRAWINGS

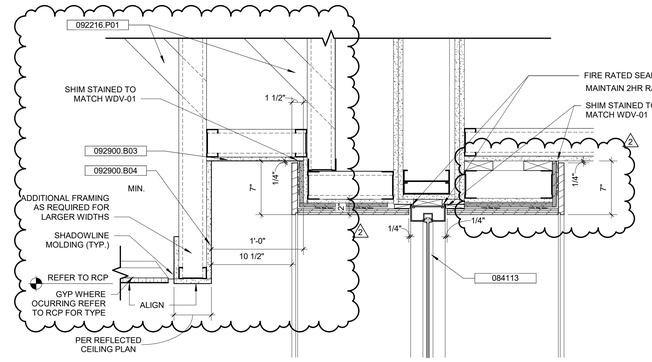
H1 A-530 CORNER VOLUME TOP SETBACK
1" = 1'-0"



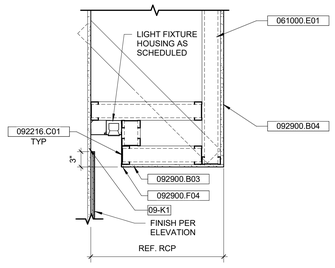
H3 A-530 PIPE GRID @ ACT DTL
1/2" = 1'-0"



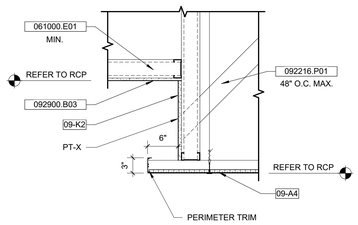




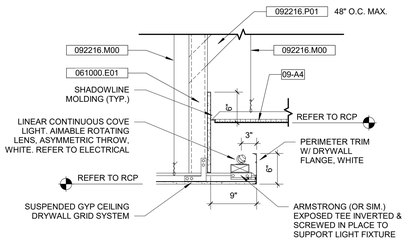
G1 A-530 CSWKDTL - NICHE WRAP HEADER DTL
3" = 1'-0"



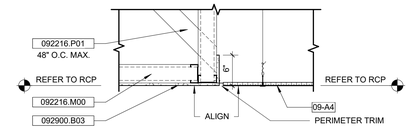
G3 A-530 CEILING AT BULKHEAD
1" = 1'-0"



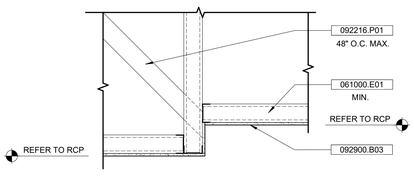
G4 A-530 CEILING AT GWB/ACT
1" = 1'-0"



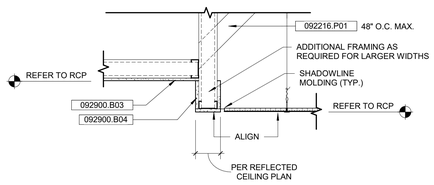
2 G5 A-530 WD FRAME HEADER @ OFFICE SF
1 1/2" = 1'-0"



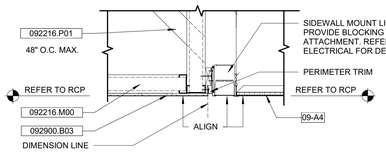
D1 A-530 CEILING AT BULKHEAD
1" = 1'-0"



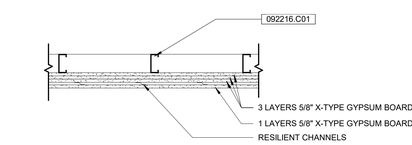
D3 A-530 CEILING AT GWB/ACT
1" = 1'-0"



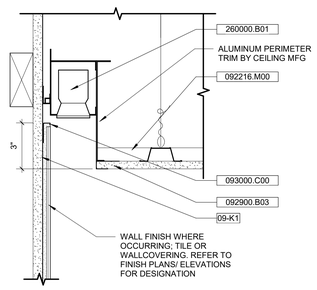
D4 A-530 CEILING AT GWB/ACT LIGHT COVE
1" = 1'-0"



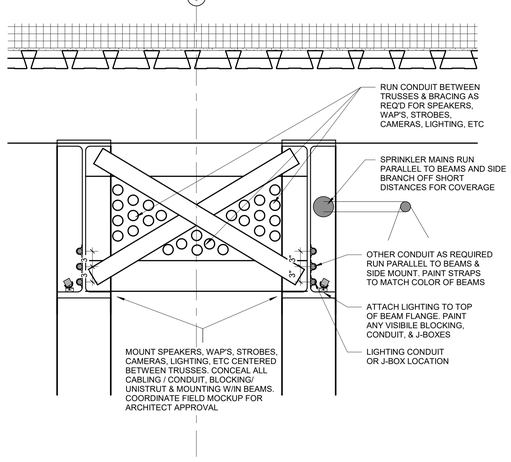
D6 A-530 CEILING AT GWB/ACT - FLUSH
1" = 1'-0"



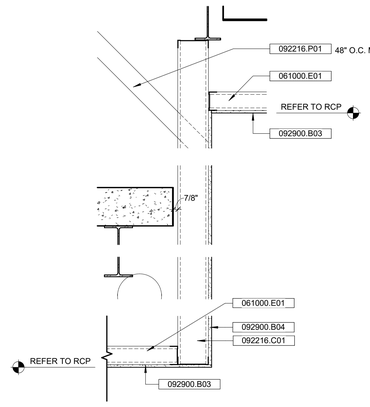
C1 A-530 CEILING AT GWB/GWB
1" = 1'-0"



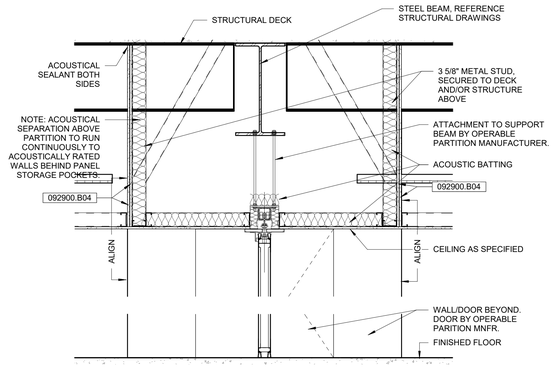
C3 A-530 CEILING AT BULKHEAD
1" = 1'-0"



C4 A-530 CEILING AT GWB/ACT - FLUSH W/ LIGHT
1" = 1'-0"



C6 A-530 CEILING DETAIL - 2-HOUR ASSEMBLY UL K506
1" = 1'-0"



A1 A-530 ClngDtl-TYP. Tile Dtl. at Perimeter Lgt.
3" = 1'-0"

A3 A-530 COORD-SECDTL-TRUSS & CONDUIT
1" = 1'-0"

A4 A-530 SECDTL - GYP SOFFIT @ RR ENTRY
1" = 1'-0"

A6 A-530 OPERABLE PARTITION - HEADER DETAIL
3/4" = 1'-0"

1/24/2025 4:08:15 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
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2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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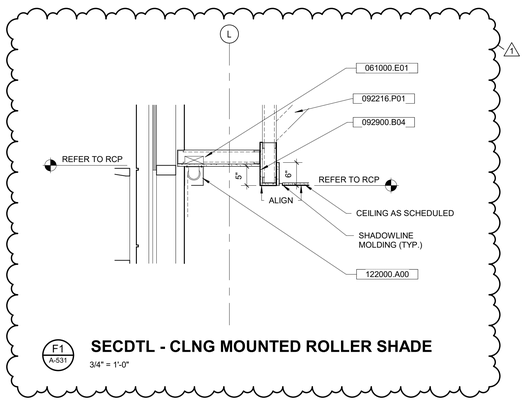
PROJECT NO. 23112.000

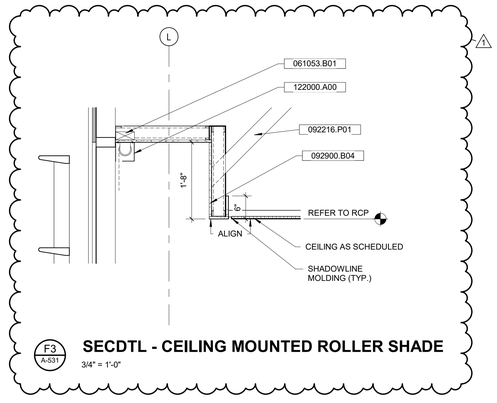
SHEET TITLE
CEILING DETAILS

SHEET NUMBER
A-530



F1 / A-531 **SECDTL - CLNG MOUNTED ROLLER SHADE**

3/4" = 1'-0"



F3 / A-531 **SECDTL - CEILING MOUNTED ROLLER SHADE**

3/4" = 1'-0"

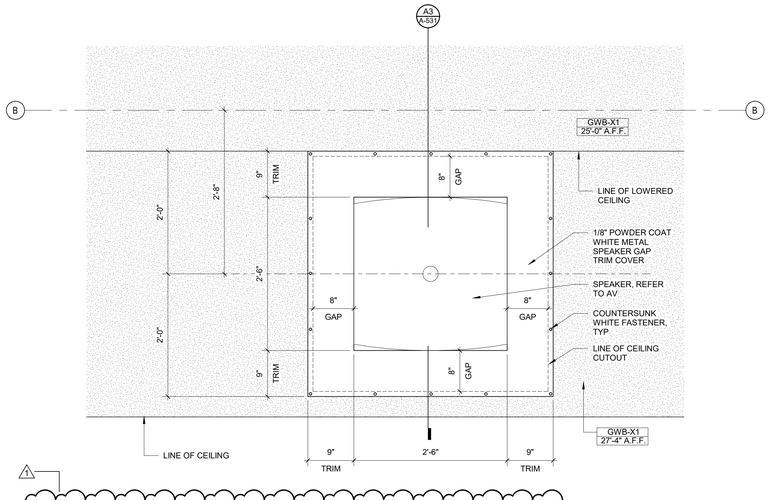
KEYNOTES (ACTION/GENERAL)

00-A1

KEYNOTES (SPEC BASED)

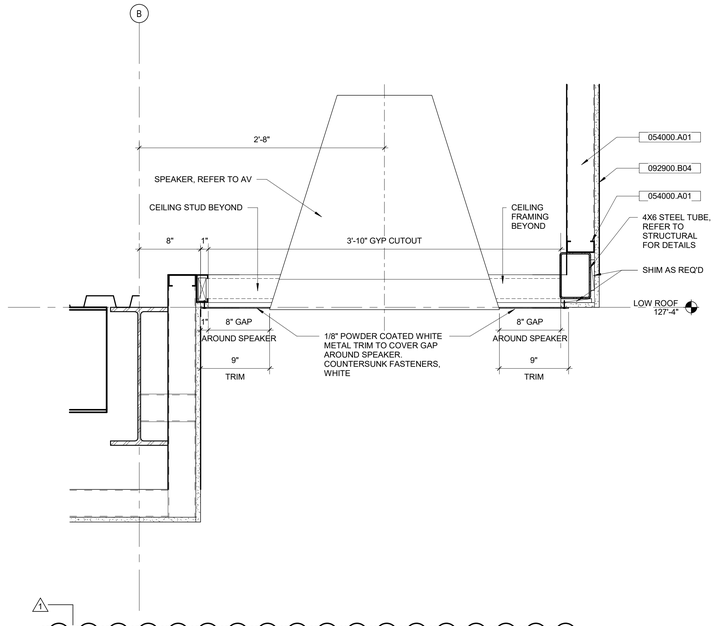
061600.A00

054000.A01	COLD-FORMED METAL FRAMING - 3 5/8"
061000.E01	WOOD BLOCKING
061053.B01	WOOD BLOCKING
092216.P01	NON-STRUCTURAL METAL STUD BRACING, EXTEND TO STRUCTURE
092900.B04	GYPSUM BOARD, 5/8"
122000.A00	WINDOW TREATMENT, REFER TO REFLECTED CEILING PLAN FOR TYPE



A1 / A-531 **ENPLAN-RCP- SPEAKER COVER TRIM TYP**

1" = 1'-0"



A3 / A-531 **SPEAKER TRIM SECTION DTL**

1 1/2" = 1'-0"

1/26/2025 9:49:09 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

Owner
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2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	ADDENDUM 01	01/27/25

RATIO

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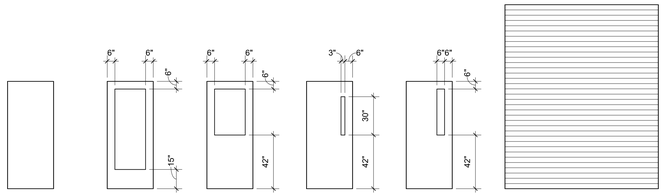
PROJECT NO. 23112.000

SHEET TITLE
CEILING DETAILS

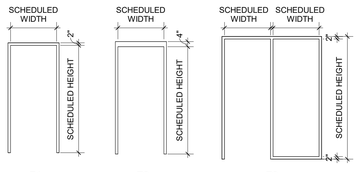
SHEET NUMBER
A-531



F FG HG N1 N2 OH

DOOR PANEL LEGEND

1/4" = 1'-0"



F1 F2 F3

DOOR FRAME LEGEND

1/4" = 1'-0"

DOOR SCHEDULE

-	PAIR	DOOR SIZE W	W2	H	T	MTRL.	ELEV.	GLASS	HDWR. SET	FRAME MTRL.	FRAME ELEV.	FRAME DETAILS HEAD	JAMB	THRESHOLD	FIRE RATING	REMARKS
00-EVENT LEVEL																
002-1	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	HM	N1	--	72	HM	F1				NR	SEE NOTE; 7
002-2	Yes	3'-6"	3'-6"	7'-10"	1 3/4"	HM	N1	GL-XX	67	HM	F1				NR	SEE NOTE; 5 ,7
002A		3'-0"		7'-0"	1 3/4"	HM	F	--	40	HM	F2				NR	
002B	Yes	3'-4"	3'-4"	7'-10"	1 3/4"	HM	F	--	72	HM	F1				NR	SEE NOTE; 5 8
002D-1	Yes	3'-4"	3'-4"	7'-10"	1 3/4"	HM	F	--	68	HM	F1				NR	SEE NOTE; 3, 5, 8
002D-2	Yes	3'-4"	3'-4"	7'-10"	1 3/4"	HM	F	--	73	HM	F1				NR	SEE NOTE; 8
002E	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	HM	N1	GL-XX	60	HM	F1				NR	SEE NOTE; 5
003-1		4'-0"		7'-0"	1 3/4"	HM	N1	GL-XX	60	HM	F1				90 MIN	
004		3'-0"		7'-0"	1 3/4"	HM	F	--	39	HM	F2				NR	
005		3'-0"		7'-10"	1 3/4"	HM	F	--	25	HM	F1				NR	
006		3'-0"		7'-10"	1 3/4"	HM	F	--	05	HM	F1				NR	
007		3'-6"		7'-0"	1 3/4"	HM	F	--	14	HM	F2				NR	
008		3'-0"		7'-0"	1 3/4"	HM	F	--	52	HM	F2				45 MIN	SEE NOTE; 5
009		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F2				NR	SEE NOTE; 5
010		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F2				NR	SEE NOTE; 5
011		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
012		3'-0"		7'-10"	1 3/4"	WD	F	--	39	HM	F1				NR	
013		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
014		3'-0"		7'-10"	1 3/4"	WD	F	--	05	HM	F1				NR	
014-2		3'-0"		7'-10"	1 3/4"	HM	F	--	07	HM	F1				NR	
014-3		3'-0"		7'-10"	1 3/4"	HM	F	--	07	HM	F1				NR	
014A		3'-0"		7'-10"	1 3/4"	HM	F	--	07	HM	F1				NR	
015		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
016		3'-0"		7'-10"	1 3/4"	WD	F	--	05	HM	F1				NR	
016A		4'-0"		8'-0"	1 3/4"	HM	F	--	26	HM	F2				NR	
016B		3'-0"		7'-0"	1 3/4"	HM	F	--		HM	F1				NR	
017		4'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
018		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
019		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
020		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
022		3'-0"		7'-10"	1 3/4"	WD	F	--	05	HM	F1				NR	
022-1		3'-0"		7'-0"	1 3/4"	HM	F	--	21	HM	F1				NR	
022A		3'-0"		7'-0"	1 3/4"	HM	F	--	23	HM	F2				NR	
023		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
024		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
025		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
026		3'-0"		7'-10"	1 3/4"	WD	F	--	35	HM	F1				NR	
026A		4'-0"		7'-0"	1 3/4"	HM	F	--	26	HM	F1				NR	
026B		3'-0"		7'-0"	1 3/4"	HM	F	--		HM	F1				NR	
027		3'-0"		7'-0"	1 3/4"	HM	F	--	08	HM	F1				45 MIN	SEE NOTE; 5
028		3'-0"		7'-10"	1 3/4"	WD	F	--	32	HM	F1				NR	SEE NOTE; 5
029		3'-0"		7'-10"	1 3/4"	WD	F	--	27	HM	F1				NR	SEE NOTE; 5
030		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	26	AL	AL				NR	SEE NOTE; 5
030A		3'-0"		7'-9 1/4"	1 3/4"	AL	FG	GL-01	29	AL	AL				NR	
030B		3'-0"		7'-0"	1 3/4"	HM	F	--	36	HM	F1				90 MIN	
030C		3'-0"		7'-0"	1 3/4"	WD	F	--	07	HM	F1				NR	
030D		3'-0"		7'-0"	1 3/4"	HM	F	--	10	HM	F2				NR	
032-1		3'-0"		7'-10"	1 3/4"	WD	F	--	14	HM	F1				NR	
032-2	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	AL	FG	GL-XX	62	AL	AL				NR	SEE NOTE; 5
032-3	Yes	3'-6"	3'-6"	7'-0"	1 3/4"	HM	F	--	45	HM	F2				NR	SEE NOTE; 5
032A		3'-0"		7'-0"	1 3/4"	HM	F	--	15	HM	F2				NR	SEE NOTE; 5
034		3'-0"		7'-10"	1 3/4"	WD	F	--	32	HM	F1				NR	SEE NOTE; 5
036		3'-0"		7'-0"	1 3/4"	HM	F	--	10	HM	F2				NR	
036A		3'-0"		7'-0"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
037		3'-0"		7'-0"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
038		3'-0"		7'-0"	1 3/4"	HM	F	--	10	HM	F2				NR	
038A		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
039		3'-0"		7'-0"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
040		3'-0"		7'-0"	1 3/4"	HM	F	--	10	HM	F2				NR	
040A		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
041		3'-0"		7'-0"	1 3/4"	HM	F	--	39	HM	F1				NR	
042		3'-0"		7'-0"	1 3/4"	HM	F	--	10	HM	F2				NR	
042A		3'-0"		7'-10"	1 3/4"	WD	F3	GL-11	11	HM	F3				NR	
043		3'-0"		7'-0"	1 3/4"	WD	F	--	16	HM	F1				NR	
045		3'-0"		7'-0"	1 3/4"	HM	F	--	06	HM	F1				NR	
047		3'-0"		7'-0"	1 3/4"	HM	F	--	31	HM	F1				NR	SEE NOTE; 5
048		3'-0"		7'-0"	1 3/4"	HM	N1	GL-XX	60	HM	F1				90 MIN	
048-1		3'-0"		7'-0"	1 3/4"	HM	N1	GL-XX	60	HM	F1				90 MIN	
049		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F1				NR	SEE NOTE; 5
050		3'-0"		7'-0"	1 3/4"	HM	F	--	52	HM	F1				45 MIN	SEE NOTE; 5
051		3'-0"		7'-10"	1 3/4"	WD	F	--	13	HM	F1				NR	
052		3'-0"		7'-10"	1 3/4"	WD	F	--	13	HM	F1				NR	
053		3'-0"		7'-10"	1 3/4"	WD	F	--	13	HM	F1				NR	
054		3'-0"		7'-0"	1 3/4"	HM	F	--	31	HM	F2				NR	SEE NOTE; 5
055-1	Yes	3'-6"	3'-6"	7'-0"	1 3/4"	HM	F	--	48	HM	F2				NR	
055-2		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F2				NR	SEE NOTE; 5
055-3		8'-0"		8'-0"	1"	HM	OH	--	76	MTL	FX				NR	SEE NOTE; 2
055A	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	HM	F	--	43	HM	F2				NR	
056		3'-0"		7'-0"	1 3/4"	HM	F	--	33	HM	F2				NR	SEE NOTE; 5
056-1		12'-0"		10'-0"	1"	HM	OH	--	76	MTL	FX				NR	SEE NOTE; 2
057		3'-0"		7'-0"	1 3/4"	HM	N2	GL-XX	28	HM	F2				NR	SEE NOTE; 5
058		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F2				NR	SEE NOTE; 5
058-1		3'-0"		7'-0"	1 3/4"	HM	F	--	23	HM	F2				NR	
059		3'-0"		7'-0"	1 3/4"	HM	F	--	49	HM	F2				45 MIN	SEE NOTE; 5
060		3'-0"		7'-0"	1 3/4"	HM	N1	GL-XX	60	HM	F1				90 MIN	
063	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	HM	F	--	45	HM	F2				NR	SEE NOTE; 5
063A		3'-0"		7'-0"	1 3/4"	HM	F	--	36	HM	F2				90 MIN	
064		3'-0"		7'-0"	1 3/4"	HM	F	--	31	HM	F2				NR	SEE NOTE; 5
065		3'-0"		7'-0"	1 3/4"	HM	F	--	31	HM	F2				NR	SEE NOTE; 5
066	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	HM	F	--	63	HM	F2				90 MIN	SEE NOTE; 5
067	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	HM	F	--	64	HM	F2				90 MIN	SEE NOTE; 5
068	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	HM	F	--	45	HM	F2				NR	SEE NOTE; 5
068A		4'-0"		7'-0"	1 3/4"	HM	F	--	36	HM	F2				NR	

DOOR SCHEDULE

-	PAIR	DOOR SIZE W	W2	H	T	MTRL.	ELEV.	GLASS	HDWR. SET	FRAME MTRL.	FRAME ELEV.	FRAME DETAILS HEAD	JAMB	THRESHOLD	FIRE RATING	REMARKS
01-CONCOURSE LEVEL																
003-2		4'-0"		7'-0"	1 3/4"	HM	F	--	58	HM	F1				NR	SEE NOTE; 5
048-2		3'-0"		7'-8"	1 3/4"	HM	F	--	53	HM	F1				90 MIN	SEE NOTE; 5
048-3		3'-0"		7'-0"	1 3/4"	HM	F	--	57	HM	F2				NR	SEE NOTE; 9, 10
048-4		3'-0"		7'-0"	1 3/4"	HM	F	--	57	HM	F2				NR	SEE NOTE; 9, 10
060-1		3'-0"		7'-8"	1 3/4"	HM	N1	--	59	HM	F1				90 MIN	
100-1		3'-6"		7'-10"	2 1/4"	AL	FG	--	51	AL	AL				NR	
100-2		3'-6"		7'-10"	2 1/4"	AL	FG	--	51	AL	AL				NR	
100-3		3'-6"		7'-10"	2 1/4"	AL	FG	--	51	AL	AL				NR	
100-4		3'-6"		7'-10"	2 1/4"	AL	FG	--	51	AL	AL				NR	
100-5		3'-6"		7'-10"	2 1/4"	AL	FG	--	51	AL	AL				NR	
100-6		3'-6"		7'-10"	2 1/4"	AL	FG	--	51	AL	AL				NR	
100-7		3'-6"		7'-10"	2 1/4"	AL	FG	--	50	AL	AL				NR	SEE NOTE; 4, 5
100-8		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
100-9		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
100-10		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
100-11		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
100-12		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
100-13		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
100-14		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	01	AL	AL				NR	SEE NOTE; 4
101		3'-0"		7'-10"	1 3/4"	HM	F	--	27	HM	F1				NR	SEE NOTE; 5
102-1		3'-6"		7'-10"	1 3/4"	HM	F	--	32	HM	F1				NR	SEE NOTE; 5
102-2		3'-0"		7'-10"	1 3/4"	HM	F	--	37	HM	F1				NR	SEE NOTE; 6
102-3		20'-7"		6'-2"	1 3/4"	H.M.	OH	-	76	STL.	-					SEE NOTE; 2
102A		3'-0"		7'-0"	1 3/4"	HM	F	--	38	HM	F1				NR	SEE NOTE; 6
102B		3'-0"		7'-0"	1 3/4"	HM	F	--	23	HM	F1				NR	SEE NOTE; 6
103		3'-0"		7'-0"	1 3/4"	HM	F	--		HM	F1				NR	
104-1		3'-6"		7'-10"	1 3/4"	HM	F	--	31	HM	F1				NR	SEE NOTE; 5
104-2		20'-7"		6'-2"	1 3/4"	H.M.	OH	-	76	STL.	-					SEE NOTE; 2
104A		3'-0"		7'-0"	1 3/4"	HM	F	--	38	HM	F1				NR	SEE NOTE; 6
104B		3'-0"		7'-0"	1 3/4"	HM	F	--	21	HM	F1				NR	SEE NOTE; 6
105		3'-0"		6'-10"	1 3/4"	HM	F	--		HM	F1				NR	
105A		3'-0"		7'-10"	1 3/4"	HM	F	--	34	HM	F1				NR	SEE NOTE; 5
106	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	AL	FG	GL-XX	70	AL	AL				NR	SEE NOTE; 4, 5, 12
107-1	Yes	3'-0"	3'-0"	8'-10"	1 3/4"	AL	FG	GL-XX	70	AL	AL				NR	SEE NOTE; 4, 5, 12
107-2		3'-0"		7'-10"	1 3/4"	HM	F	--	30	HM	F1				NR	SEE NOTE; 5
107-3	Yes	2'-6"	2'-6"	7'-10"	1 3/4"	WD	F	--	04	HM	F1				NR	
107-4	Yes	2'-6"	2'-6"	7'-10"	1 3/4"	WD	F	--	04	HM	F1				NR	
107A		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
107B		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
107C		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
107D		3'-0"		7'-10"	1 3/4"	HM	F	--	34	HM	F1				NR	
107E		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
107F		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
107G		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
107H		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
108-1		3'-0"		8'-10"	1 3/4"	WD	FG	GL-01	30	AL	AL				NR	SEE NOTE; 5
108-2	Yes	3'-0"	3'-0"	8'-10"	1 3/4"	AL	FG	GL-XX	65	AL	AL				NR	SEE NOTE; 5, 12
108-3	Yes	3'-0"	3'-0"	8'-10"	1 3/4"	AL	FG	GL-XX	65	AL	AL				NR	SEE NOTE; 5, 12
108-4		3'-0"		8'-10"	1 3/4"	WD	FG	GL-01	30	AL	AL				NR	SEE NOTE; 5
108A		3'-0"		8'-10"	1 3/4"	WD	FG	GL-01	55	AL	AL				NR	
108AB		3'-0"		9'-0"	1 3/4"	HM	F	--		HM	F1				NR	
108B		3'-0"		8'-10"	1 3/4"	WD	FG	GL-01	56	AL	AL				NR	
109-1	Yes	3'-0"	3'-0"	8'-10"	1 3/4"	AL	FG	GL-XX	70	AL	AL				NR	SEE NOTE; 4, 5, 12
109-2		3'-0"		7'-10"	1 3/4"	WD	F	--	17	HM	F1				NR	
109-3		3'-0"		7'-10"	1 3/4"	WD	F	--	30	HM	F1				NR	SEE NOTE; 5
109A		3'-0"		7'-10"	1 3/4"	WD	F	--	39	HM	F1				NR	
109C		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
109D		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
109E		3'-0"		7'-10"	1 3/4"	WD	FG	GL-XX	08	HM	F1				NR	
109F		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	08	AL	AL				NR	
110		3'-0"		7'-10"	1 3/4"	HM	F	--	19	HM	F1				NR	
111-1		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	50	AL	AL				NR	SEE NOTE; 4, 5
111-2	Yes	4'-0"	4'-0"	7'-8 1/2"	2 1/4"	AL	FG	GL-01	71	AL	AL				NR	
111-3		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	51	AL	AL				NR	
112-1		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	01	AL	AL				NR	SEE NOTE; 4
112-2	Yes	4'-0"	4'-0"	7'-8 1/2"	2 1/4"	AL	FG	GL-01	03	AL	AL				NR	
112-3		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
113		3'-0"		7'-10"	1 3/4"	HM	F	--	27	HM	F1				NR	SEE NOTE; 5
114A		3'-0"		7'-0"	1 3/4"	HM	F	--	12	HM	F1				NR	
114B		3'-0"		7'-0"	1 3/4"	HM	F	--	38	HM	F1				NR	
115-1	Yes	4'-0"	4'-0"	7'-10"	1 3/4"	HM	F	--	66	HM	F1				NR	SEE NOTE; 5
115-2	Yes	4'-0"	4'-0"	7'-10"	1 3/4"	HM	F	--	03	HM	F1				NR	
115-3	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	HM	F	--	66	HM	F1				NR	SEE NOTE; 5
115A		4'-0"		7'-10"	1 3/4"	HM	F	--		HM	F1				NR	
115B	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	HM	F	--	44	HM	F1				NR	
115C	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	HM	F	--	44	HM	F1				NR	
115D	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	HM	F	--	44	HM	F1				NR	
115E	Yes	4'-0"	4'-0"	7'-10"	1 3/4"	HM	F	--	74	HM	F1				NR	SEE NOTE; 9, 10
115F		3'-0"		7'-10"	1 3/4"	HM	F	--	30	HM	F1				NR	SEE NOTE; 5
115G	Yes	4'-0"	4'-0"	7'-10"	1 3/4"	HM	F	--	46	HM	F1				NR	SEE NOTE; 5
115H		3'-0"		7'-10"	1 3/4"	HM	F	--		HM	F1				NR	
116-1		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	51	AL	AL				NR	
116-2	Yes	4'-0"	4'-0"	7'-8 1/2"	2 1/4"	AL	FG	GL-01	71	AL	AL				NR	
116-3		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	50	AL	AL				NR	SEE NOTE; 4, 5
117-1		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	02	AL	AL				NR	
117-2	Yes	4'-0"	4'-0"	7'-8 1/2"	2 1/4"	AL	FG	GL-01	03	AL	AL				NR	
117-3		3'-6"		7'-8 1/2"	2 1/4"	AL	FG	--	01	AL	AL				NR	SEE NOTE; 4
118		3'-0"		7'-10"	1 3/4"	HM	F	--	27	HM	F1				NR	SEE NOTE; 5
119A		3'-0"		7'-0"	1 3/4"	HM	F	--	12	HM	F1				NR	
119B		3'-0"		7'-0"	1 3/4"	HM	F	--	38	HM	F1				NR	
02-UPPER LEVEL																
048-5		3'-0"		7'-8"	1 3/4"	HM	N1	--	60	HM	F1				90 MIN	
060-2		3'-0"		7'-0"	1 3/4"	HM	N1	GL-XX	42	HM	F1				90 MIN	
200		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F1				NR	SEE NOTE; 5
200A		3'-0"		7'-0"	1 3/4"	HM	F	--	23	HM	F1				NR	SEE NOTE; 6
201-1		3'-0"		7'-10"	1 3/4"	HM	F	--	10	HM	F1				NR	SEE NOTE; 5
201-2	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	WD	F	--	04	HM	F1				NR	
201-3	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	AL	FG	GL-XX	61	AL	AL				NR	
201-4	Yes	3'-0"	3'-0"	7'-10"	1 3/4"	WD	F	--	04	HM	F1				NR	
201A		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201B		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201C		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201D		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201E		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201F		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201G		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201H		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201I		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201J		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201K		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201L		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201M		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201N		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201O		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
201P		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
201Q		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	11	AL	AL				NR	
201R		3'-0"		7'-10"	1 3/4"	WD	FG	GL-01	09	AL	AL				NR	
201S		3'-0"		7'-10"	1 3/4"	HM	F	--	11	HM	F1				NR	
201T		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201U		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201V		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	11	AL	AL				NR	
201W		3'-0"		7'-10"	1 3/4"	AL	FG	GL-01	08	AL	AL				NR	
202		3'-0"		7'-0"	1 3/4"	HM	F	--	38	HM	F1				NR	
203		3'-0"		7'-0"	1 3/4"	HM	F	--	28	HM	F1				NR	SEE NOTE; 5
204		3'-0"		7'-0"	1 3/4"	HM	F	--	23	HM	F1				NR	
205		3'-0"		7'-10"	1 3/4"	HM	F	--	06	HM	F1				NR	
206		3'-0"		7'-10"	1 3/4"	HM	F	--	23	HM	F1				NR	
207		3'-0"		7'-10"	1 3/4"	HM	F	--	34	HM	F1				NR	SEE NOTE; 5
208		3'-0"		7'-0"	1 3/4"	HM	F	--	25	HM	F1				NR	SEE NOTE; 5
208A		3'-0"		7'-0"	1 3/4"	HM	F	--	36	HM	F1				NR	SEE NOTE; 6
209A		3'-0"		7'-0"	1 3/4"	HM	F	--	36	HM	F2				NR	SEE NOTE; 6
210A		3'-0"		7'-10"	1 3/4"	HM	F	--	41	HM	F1				NR	SEE NOTE; 6
LOW ROOF																
048-6		3'-0"		7'-0"	1 3/4"	HM	F	--	40	HM	F2				NR	SEE NOTE; 11
060-3		3'-0"		6'-8"	1 3/4"	HM	F	--	40	HM	F1				NR	SEE NOTE; 11

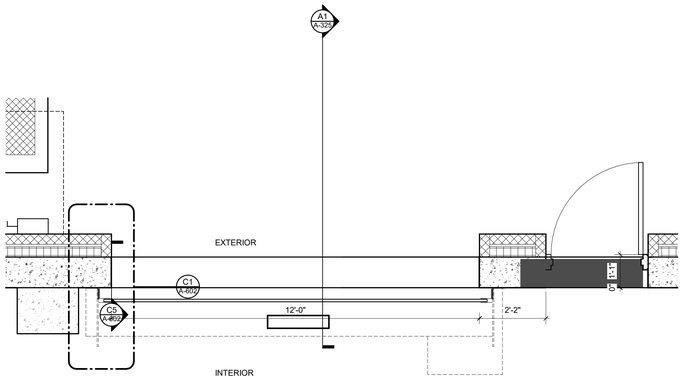
Grand total: 226

GENERAL DOOR SCHEDULE NOTES

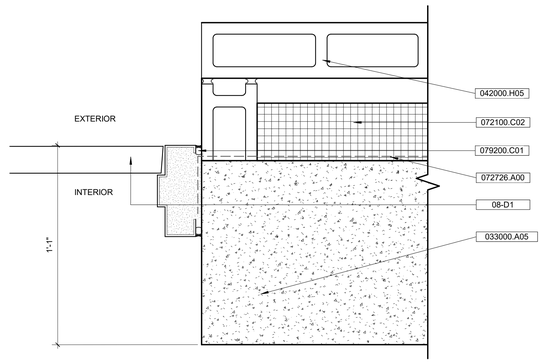
A. THESE GENERAL NOTES APPLY TO ▶ SERIES 600 ◀ DOOR SCHEDULE DRAWINGS.
B. UNDERCUT DOORS AS REQUIRED BY FINAL FLOOR FINISH.
C. PROVIDE SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.
D. PROVIDE SEALANT BETWEEN INTERIOR AND EXTERIOR STOREFRONT FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.
E. GROUT FULL NEW HOLLOW METAL DOOR FRAMES IN MASONRY WALL CONSTRUCTION.
F. SPOT GROUT NEW HOLLOW METAL DOOR FRAMES IN GYPSUM BOARD WALL CONSTRUCTION.
G. WHERE A FIRE RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT LABEL.
H. WHERE ACOUSTICAL RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT RATING.
I. INSTALL DOOR GLASS USING WET-GLAZING METHOD.
J. REFER TO PROJECT MANUAL DIVISION 08 FOR GLAZING.
K. REFER TO PROJECT MANUAL DIVISION 08 FOR HARDWARE SCHEDULE.

DOOR SCHEDULE REMARKS

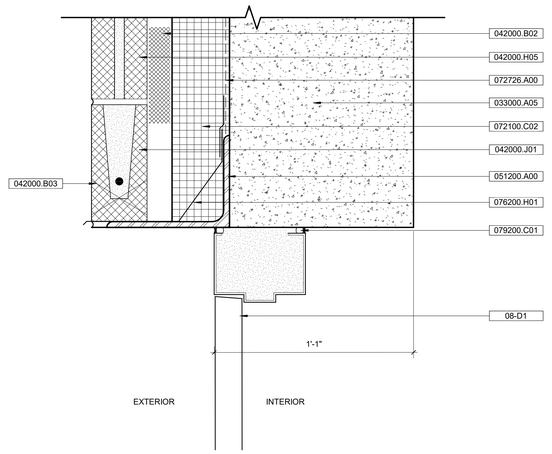
1. CASED OPENING
2. OVER



F1 A-602 BASE- Event Level (OVERALL) RS - Callout 1
1/2" = 1'-0"



E4 A-602 **JAMB DOOR DETAIL**
3" = 1'-0"



E6 A-602 **HEAD DOOR DETAIL**
3" = 1'-0"

KEYNOTES (SPEC BASED)

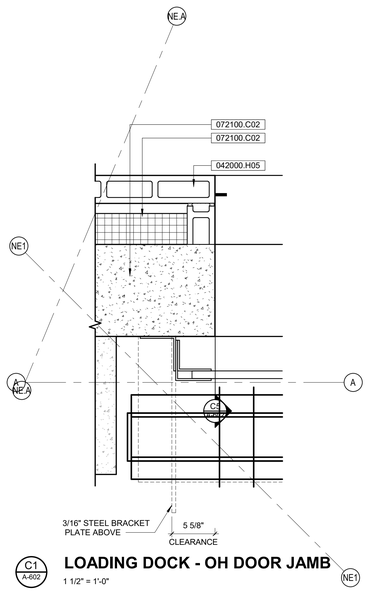
061600.A00

033000.A05	CAST-IN-PLACE CONCRETE WALL
042000.B02	MASONRY VENEER, DRAINAGE MATERIAL
042000.B03	MASONRY VENEER, WEEP/VENT
042000.H05	CONCRETE MASONRY UNIT, 4"
042000.J01	CONCRETE MASONRY UNIT, BOND BEAM, MATCH WALL THICKNESS, REFER TO STRUCTURAL
051200.A00	STRUCTURAL STEEL FRAMING
054000.A02	COLD-FORMED METAL FRAMING - 6"
054000.E01	COLD-FORMED METAL FRAMING - Z FURRING
061053.B01	WOOD BLOCKING
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
071326.A00	SELF-ADHERING SHEET WATERPROOFING
072100.C02	MINERAL-WOOL BOARD
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
074210.A00	RAINSCREEN ATTACHMENT SYSTEM
074210.C01	EXTRUDED ALUMINUM REVEAL TRIM
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
074320.A02	CONCEALED FASTENER PANEL RAIL
076200.A01	SHEET METAL FLASHING AND TRIM
076200.H01	THROUGH-WALL FLASHING
079200.C01	BACKER ROD AND SEALANT
087100.A02	DOOR HARDWARE - THRESHOLD
092900.B04	GYPSUM BOARD, 5/8"

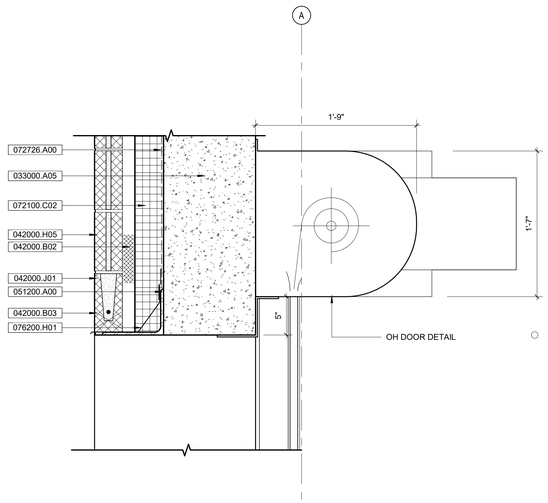
KEYNOTES (ACTION/GENERAL)

00-A1

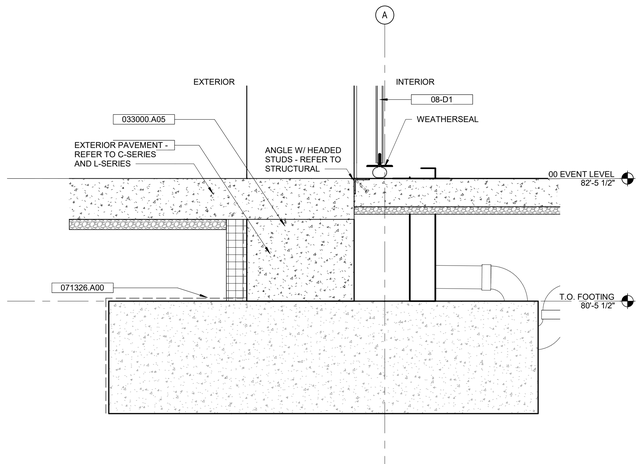
08-D1	SCHEDULED DOOR
09-A2	WALL FINISH, REFER TO FINISH PLAN FOR TYPE



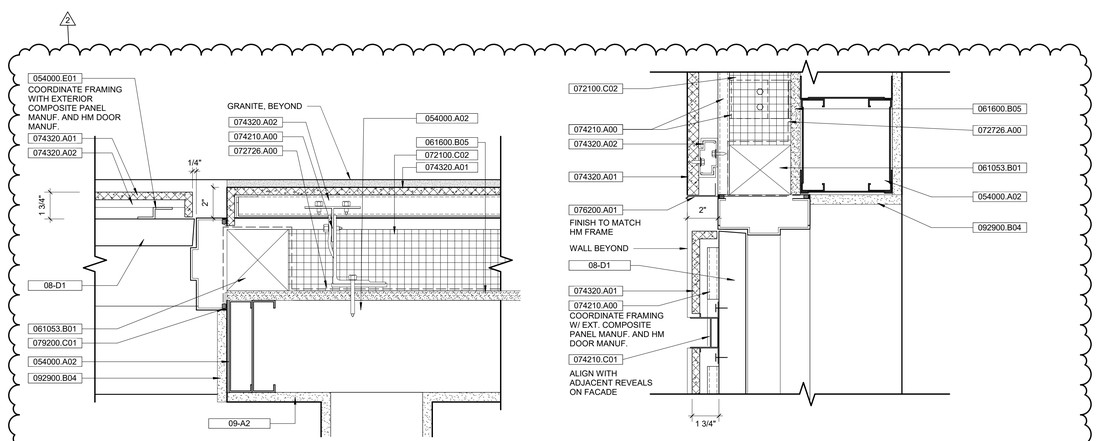
C1 A-602 **LOADING DOCK - OH DOOR JAMB**
1 1/2" = 1'-0"



C3 A-602 **LOADING DOCK - OH DOOR HEAD**
1 1/2" = 1'-0"

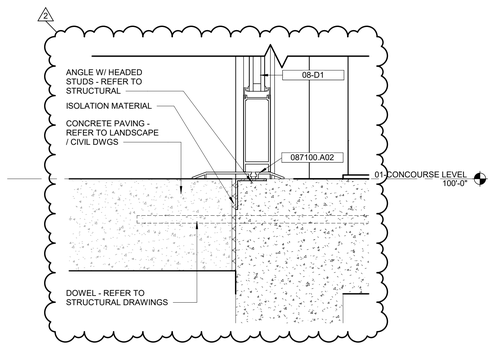


C5 A-602 **LOADING DOCK - OH DOOR THRESHOLD**
1" = 1'-0"



A1 A-602 **JAMB DETAIL - DOOR WITH EXT. COMPOSITE CLADDING**
3" = 1'-0"

A3 A-602 **HEAD DETAIL - DOOR WITH EXT. COMPOSITE CLADDING**
3" = 1'-0"



A5 A-602 **DOOR THRESHOLD DETAIL - CW AND STOREFRONT**
3" = 1'-0"

1/24/2025 4:08:25 PM

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
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2502 WEST MECHANIC ST, SUITE C
HARRISONVILLE, MO 64701
816-806-3729

SEAL | DATE 01/27/25



SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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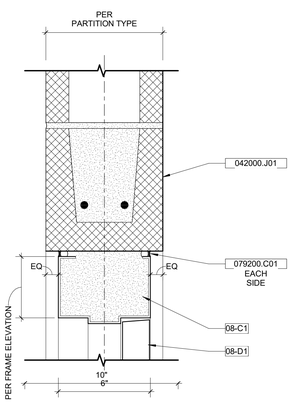
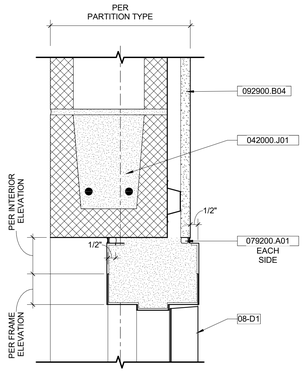
PROJECT NO. 23112.000

SHEET TITLE
DOOR DETAILS

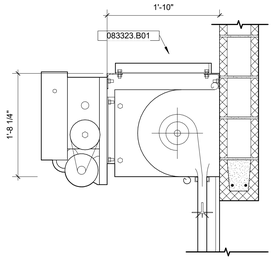
SHEET NUMBER
A-602



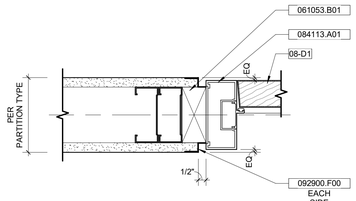
E1 A-603 **HEAD DETAIL- HM FRAME**
3" = 1'-0"



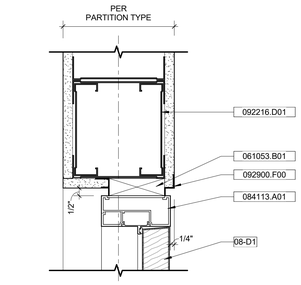
E2 A-603 **HEAD DETAIL- HM FRAME**
3" = 1'-0"



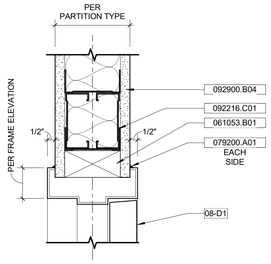
E4 A-603 **TYPICAL OH HEAD DETAIL**
1" = 1'-0"



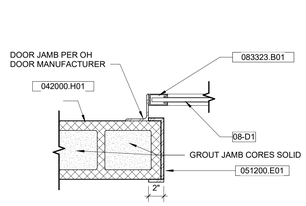
E5 A-603 **JAMB DETAIL - STOREFRONT**
3" = 1'-0"



C1 A-603 **HEAD DETAIL - STOREFRONT**
3" = 1'-0"

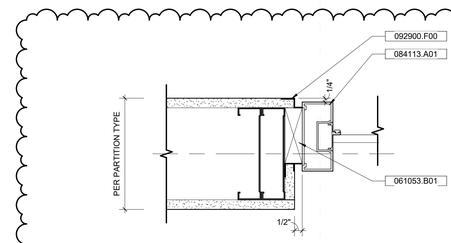


C2 A-603 **HEAD DETAIL- HM FRAME**
3" = 1'-0"

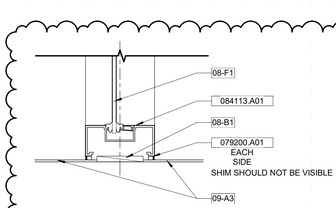


C4 A-603 **TYPICAL OH JAMB DETAIL**
1 1/2" = 1'-0"

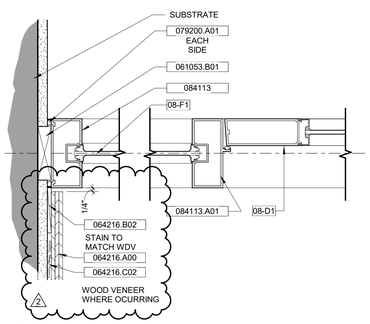
C5 A-603 **JAMB DETAIL - HM FRAME**
3" = 1'-0"



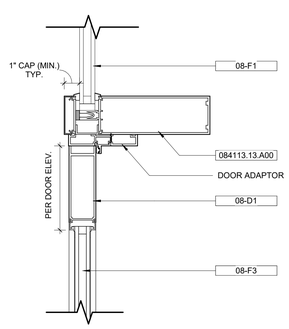
D6 A-603 **JAMB/HEAD - STOREFRONT TO GYPSUM AT GLAZING**
3" = 1'-0"



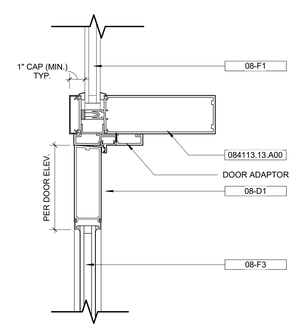
C6 A-603 **SILL DETAIL**
3" = 1'-0"



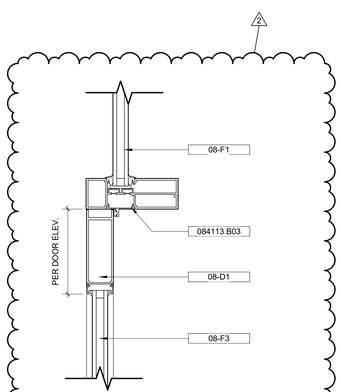
A1 A-603 **STOREFRONT JAMB DETAIL WITH SIDELITE**
3" = 1'-0"



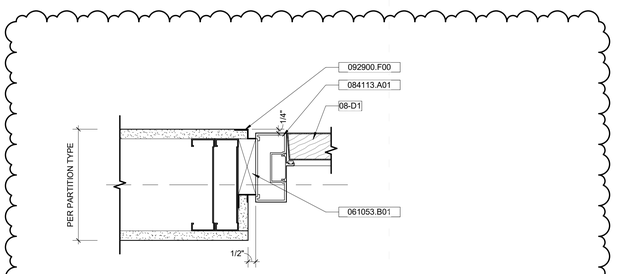
A3 A-603 **HEAD DETAIL - CURTAINWALL**
3" = 1'-0"



A4 A-603 **JAMB DETAIL - CURTAINWALL**
3" = 1'-0"



A5 A-603 **HEAD DETAIL - STOREFRONT**
3" = 1'-0"



A6 A-603 **JAMB/HEAD - STOREFRONT TO GYPSUM W/ DOOR**
3" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

042000.H01	CONCRETE MASONRY UNIT
042000.J01	CONCRETE MASONRY UNIT, BOND BEAM, MATCH WALL THICKNESS, REFER TO STRUCTURAL
051200.E01	STRUCTURAL STEEL FRAMING, BENT PLATE
061053.B01	WOOD BLOCKING
064216.A00	FLUSH WOOD PANELING
064216.B02	FLUSH WOOD PANELING, FURRING
064216.C02	FLUSH WOOD PANELING, CONCEALED PANEL-HANGER CLIPS
079200.A01	SEALANT
079200.C01	BACKER ROD AND SEALANT
081113.A00	HOLLOW METAL DOORS AND FRAMES
083323.B01	OVERHEAD COILING DOOR
084113	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084113.13.A00	FIRE-RATED ALUMINUM-FRAMED ENTANCES AND STOREFRONTS
084113.A01	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
084113.B03	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
092216.C01	3 5/8" METAL STUD FRAMING, NON-STRUCTURAL
092216.D01	6" METAL STUD FRAMING, NON-STRUCTURAL
092900.B04	GYPSUM BOARD, 5/8"
092900.F00	GYPSUM BOARD, ABOVE CEILING/SOFFIT

KEYNOTES (ACTION/GENERAL)

00-A1

08-B1	SHIM
08-C1	GROUT FRAME SOLID
08-D1	SCHEDULED DOOR
08-F1	GLAZING PER ELEVATION
08-F3	GLAZING PER DOOR TYPE
09-A3	FLOOR FINISH, REFER TO FINISH PLAN FOR TYPE

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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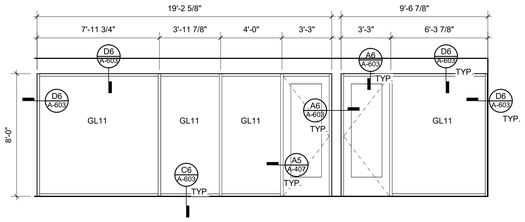
PROJECT NO. 23112.000

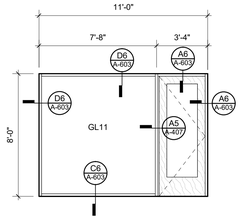
SHEET TITLE
DOOR DETAILS

SHEET NUMBER
A-603

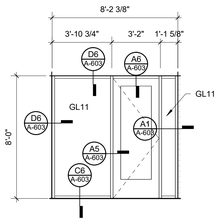
1/28/2025 9:48:56 PM



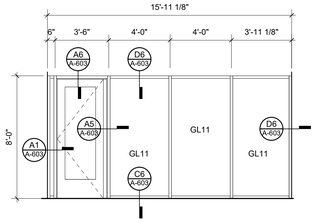
F1 A-604 **STOREFRONT 109C & 109D**
1/4" = 1'-0"



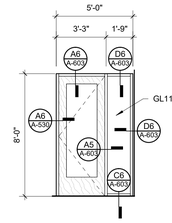
F3 A-604 **STOREFRONT - 109F**
1/4" = 1'-0"



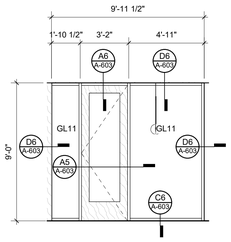
F4 A-604 **STOREFRONT - 030**
1/4" = 1'-0"



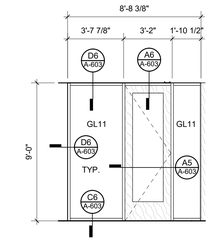
F5 A-604 **STOREFRONT - 030A**
1/4" = 1'-0"



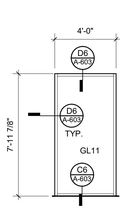
F6 A-604 **STOREFRONT - 107A & 107H**
1/4" = 1'-0"



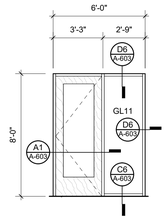
E1 A-604 **STOREFRONT - 108-1**
1/4" = 1'-0"



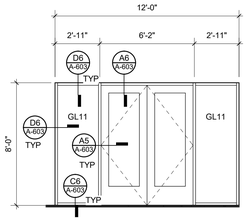
E2 A-604 **STOREFRONT - 108-4**
1/4" = 1'-0"



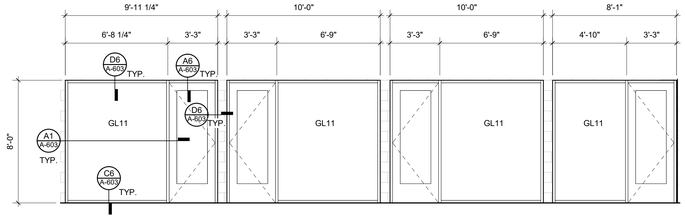
E3 A-604 **STOREFRONT - ROOM 107H**
1/4" = 1'-0"



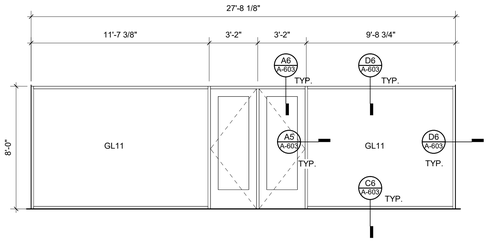
E4 A-604 **STOREFRONT - TYPICAL SIDELITE**
1/4" = 1'-0"



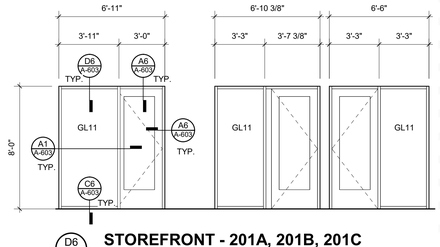
E6 A-604 **STORERONT - 032-2**
1/4" = 1'-0"



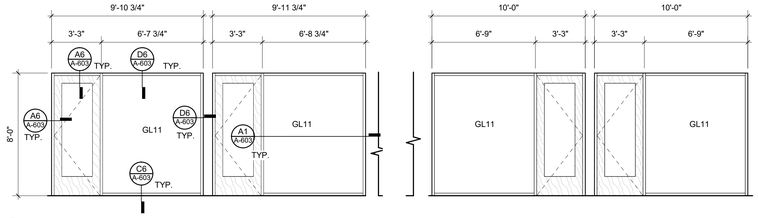
D1 A-604 **STOREFRONT 201T, 201U, 201V, 201W**
1/4" = 1'-0"



D4 A-604 **STOREFRONT - 201-3**
1/4" = 1'-0"



D6 A-604 **STOREFRONT - 201A, 201B, 201C**
1/4" = 1'-0"



B1 A-604 **STOREFRONT - 201O, 201P,2011, 201R**
1/4" = 1'-0"

1/26/2025 9:49:19 PM

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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Code Consultant
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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF VIRGINIA ARCHITECT

SHEET ISSUE

1	ADDENDUM 01	01/27/25

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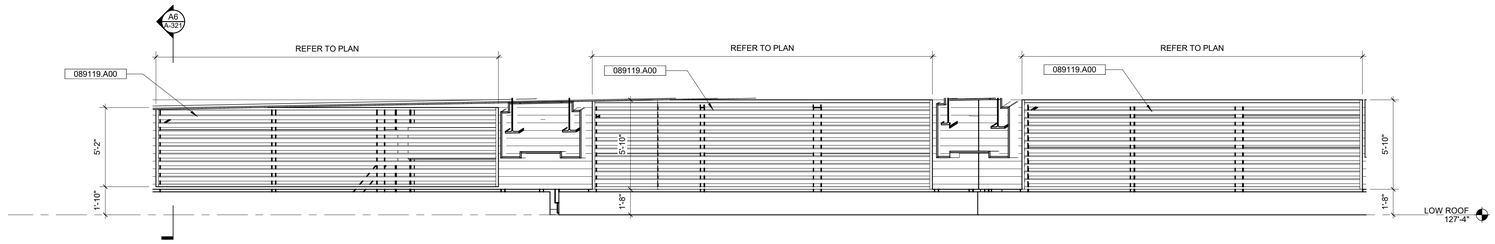
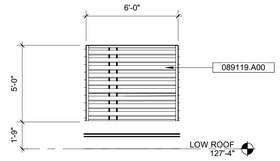
PROJECT NO. 23122.000

SHEET TITLE
INTERIOR STOREFRONT ELEVATIONS

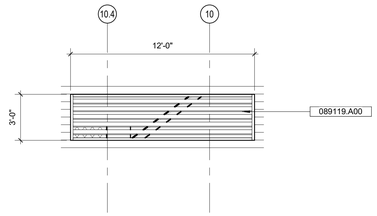
SHEET NUMBER
A-604



E1 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



E6 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



D1 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"

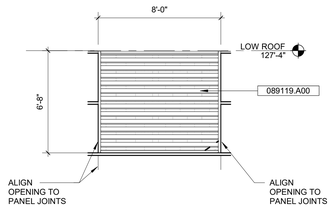
KEYNOTES (SPEC BASED)

061600.A00

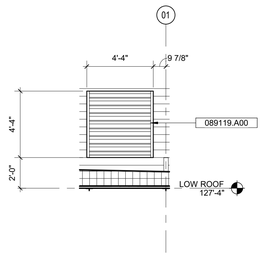
089119.A00	FIXED LOUVERS

KEYNOTES (ACTION/GENERAL)

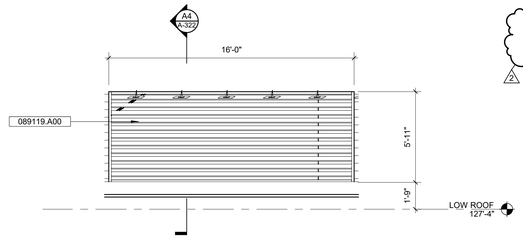
00-A1



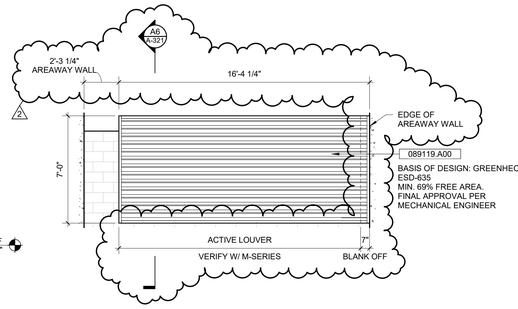
C1 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



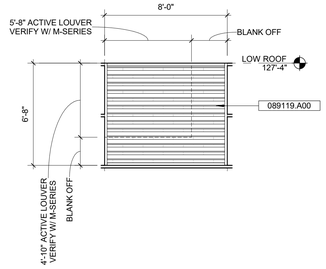
C2 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



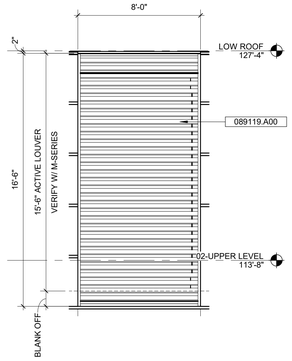
C4 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



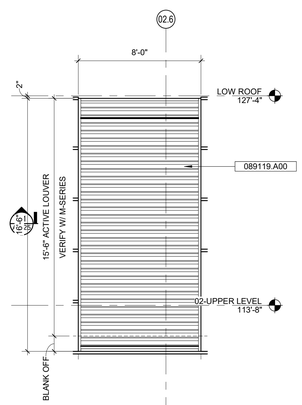
C6 A-630 **EXT ELEV - LOUVER AREAWAY**
1/4" = 1'-0"



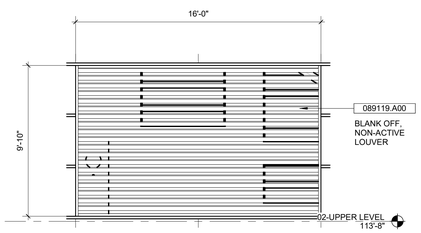
A1 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



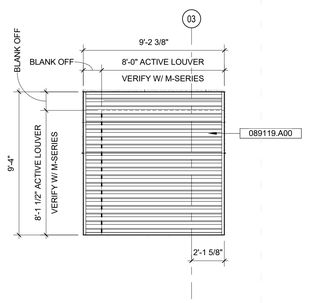
A3 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



A4 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



A5 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"



A6 A-630 **LOUVER ELEVATION**
1/4" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
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IU Project NO. 20240127

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE
REGISTERED
No. AR00034154
STATE OF INDIANA
ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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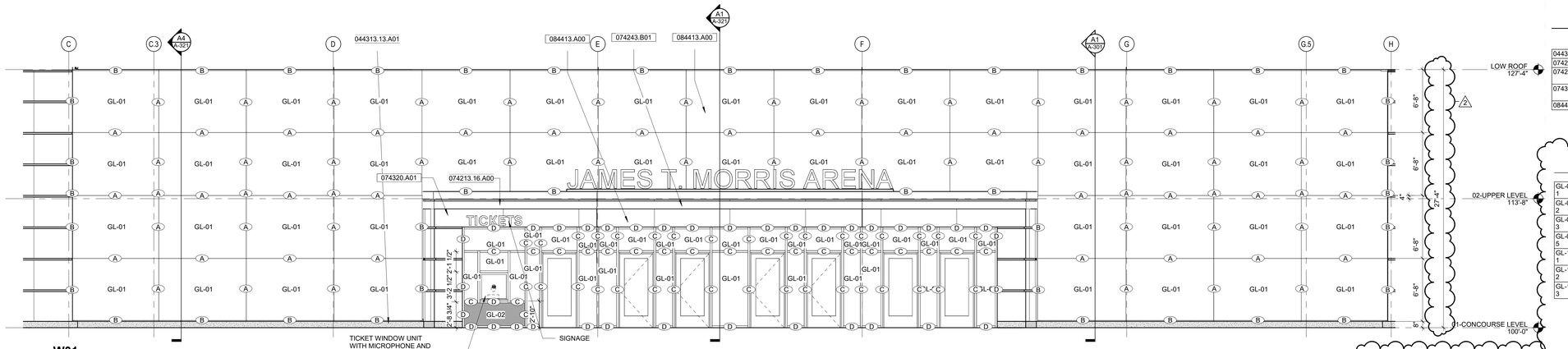
PROJECT NO. 23112.000

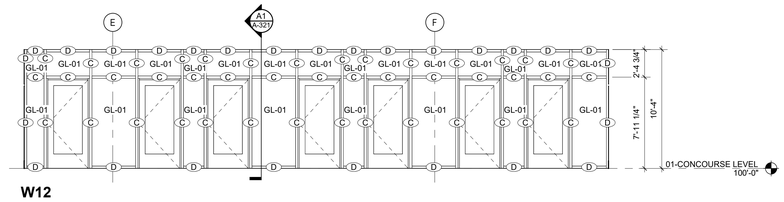
SHEET TITLE
LOUVER ELEVATIONS

SHEET NUMBER
A-630

1/24/2025 4:08:47 PM



W01
3/16" = 1'-0"



W12
3/16" = 1'-0"

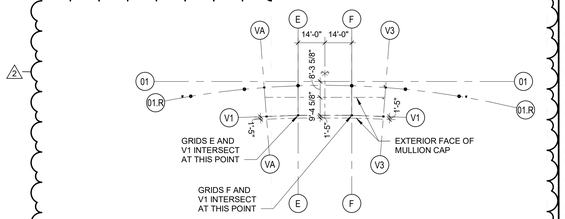
KEYNOTES (SPEC BASED)

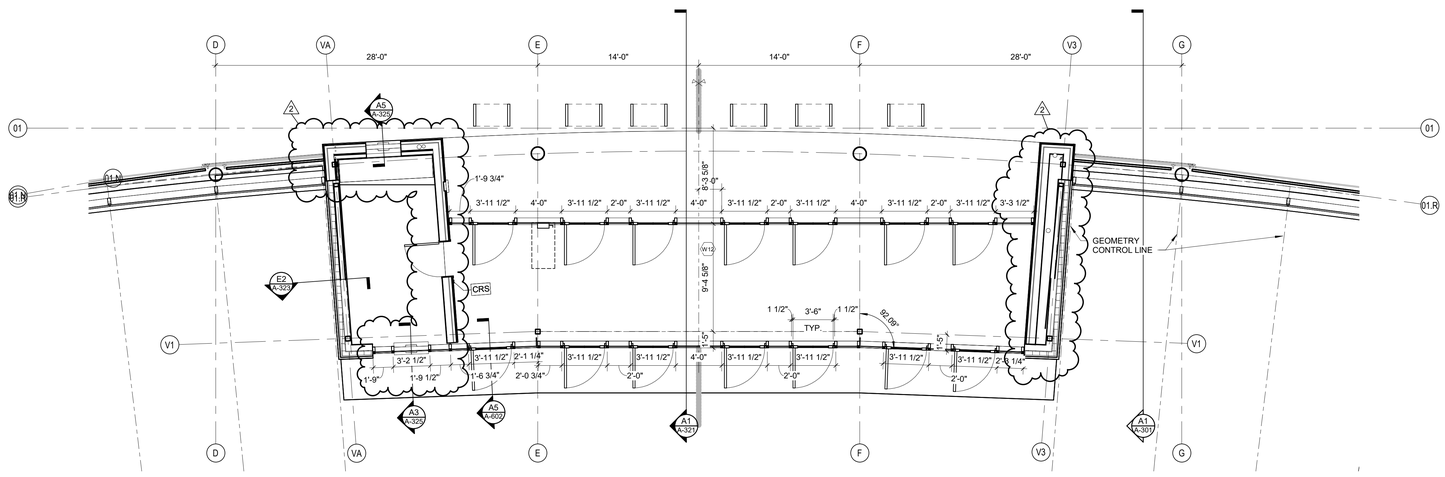
061600.A00

044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
074213.16.A00	METAL PLATE WALL PANELS
074243.B01	COMPOSITE PANELS, STONE COMPOSITE MATERIAL
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
084413.A00	GLAZED ALUMINUM CURTAIN WALLS

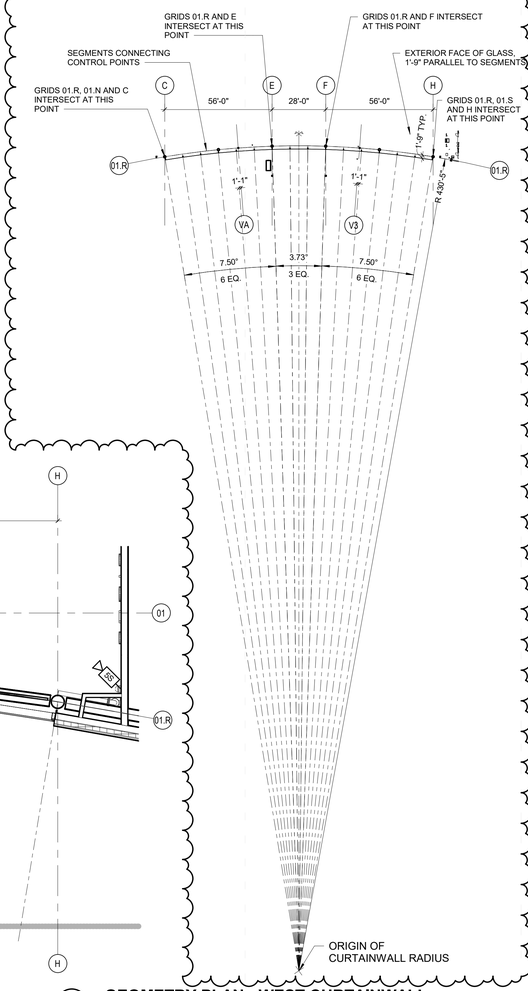
GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

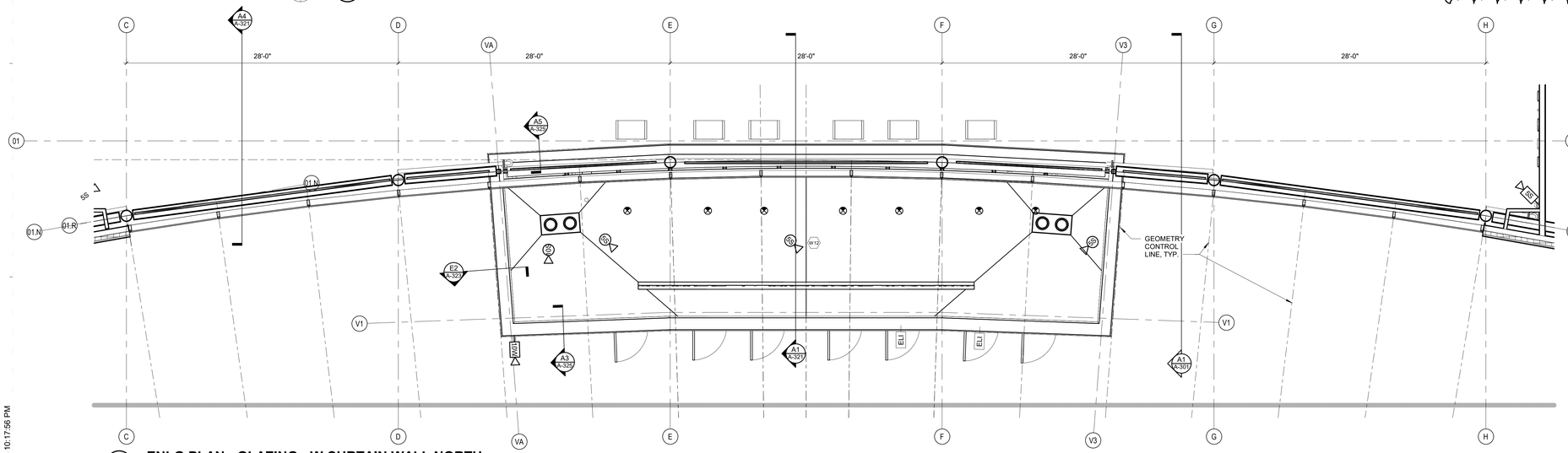




ENLARGED PLAN - WEST VESTIBULE
3/16" = 1'-0"



GEOMETRY PLAN - WEST CURTAINWALL
1/32" = 1'-0"



ENLG PLAN - GLAZING - W CURTAIN WALL NORTH
3/16" = 1'-0"

GEOMETRY PLAN - WEST CURTAINWALL VESTIBULE
1/32" = 1'-0"

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WILLIAM A. BROWNE, REGISTERED BY No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
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PROJECT NO. 23112.000

SHEET TITLE
GLAZING ELEVATIONS AND PLANS

SHEET NUMBER
A-621

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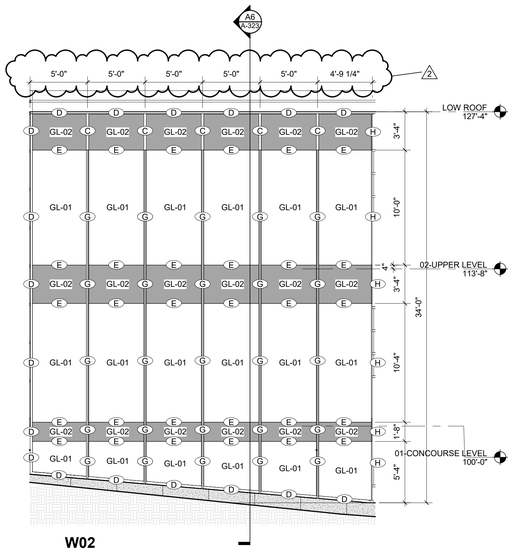
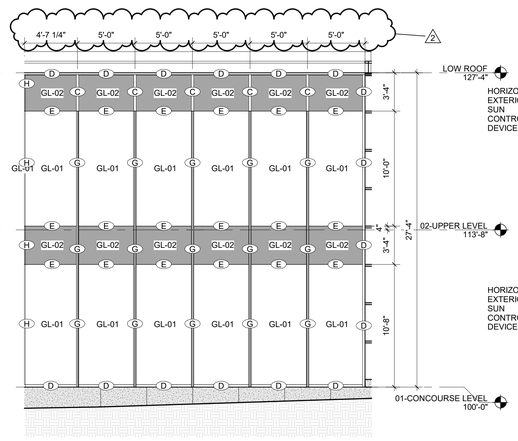
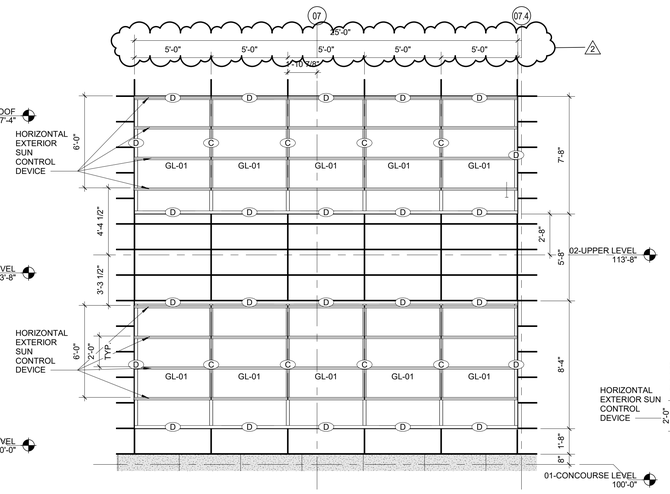


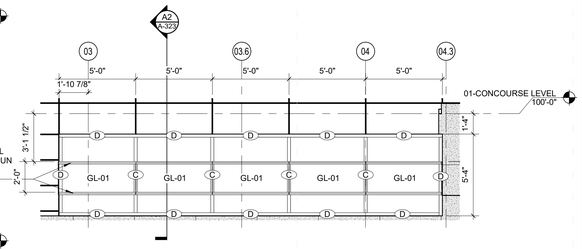
W02
3/16" = 1'-0"



W06
3/16" = 1'-0"



E5 A-622 **ENLARGED WINDOW ELEV**
1/4" = 1'-0"



E7 A-622 **ENLARGED WINDOW ELEV**
1/4" = 1'-0"

GLAZING SCHEDULE

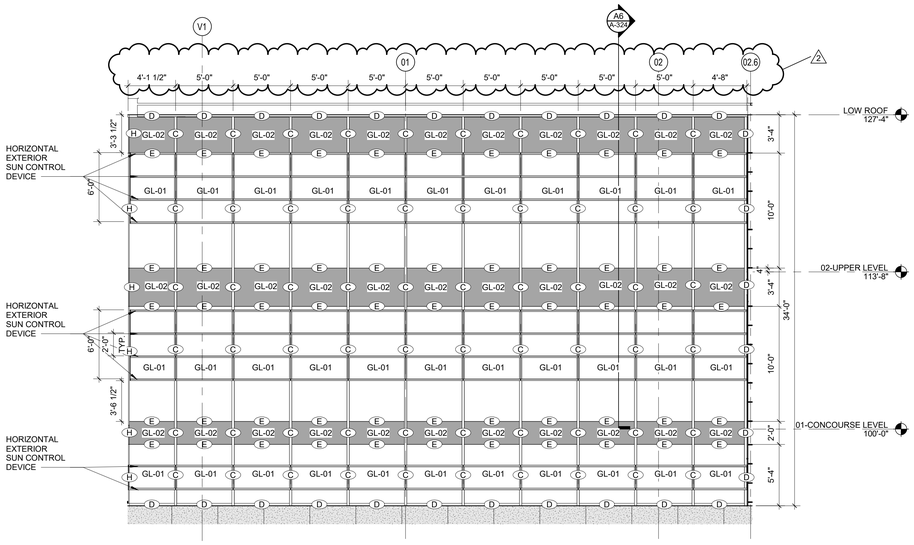
GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

KEYNOTES (SPEC BASED)

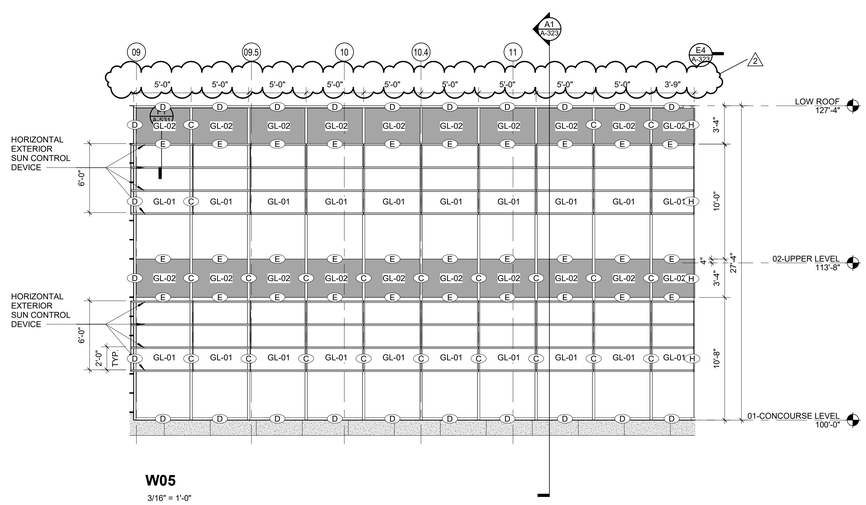
061600.A00

KEYNOTES (ACTION/GENERAL)

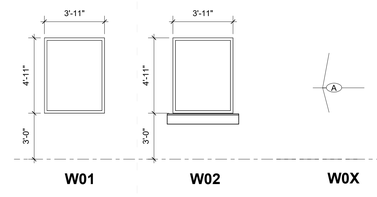
00-A1



W01
3/16" = 1'-0"

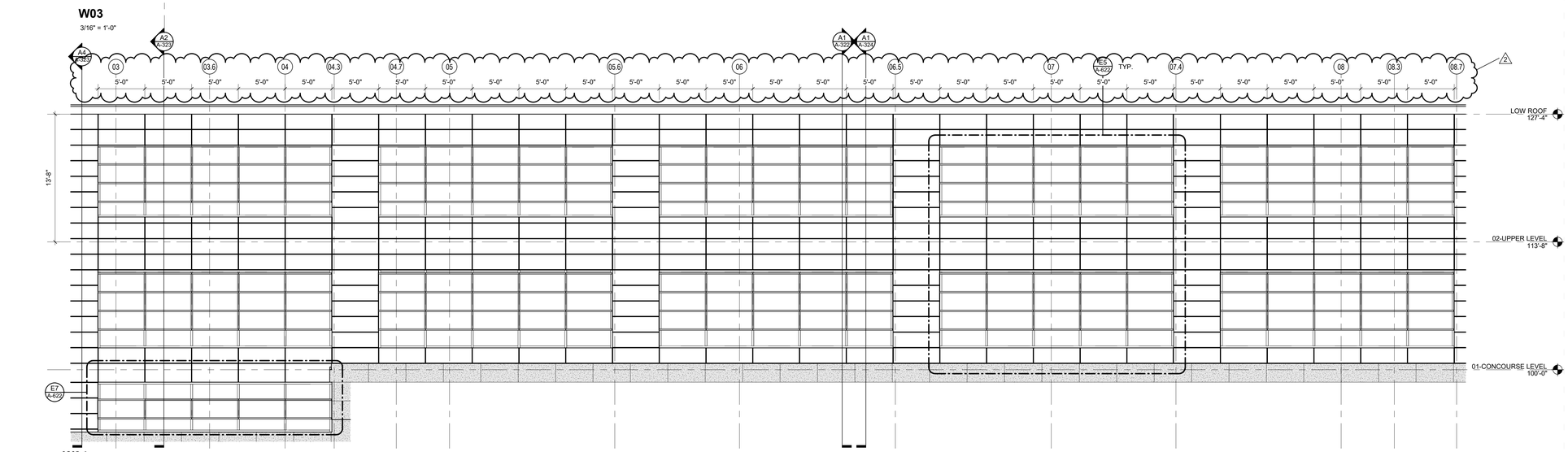


W05
3/16" = 1'-0"



W01 **W02** **W0X**

WINDOW TYPE ELEVATIONS
1/4" = 1'-0"



W03
3/16" = 1'-0"

W04
3/16" = 1'-0"

IN128 - JAMES T. MORRIS ARENA

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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SHEET TITLE
GLAZING ELEVATIONS AND PLANS

SHEET NUMBER
A-622

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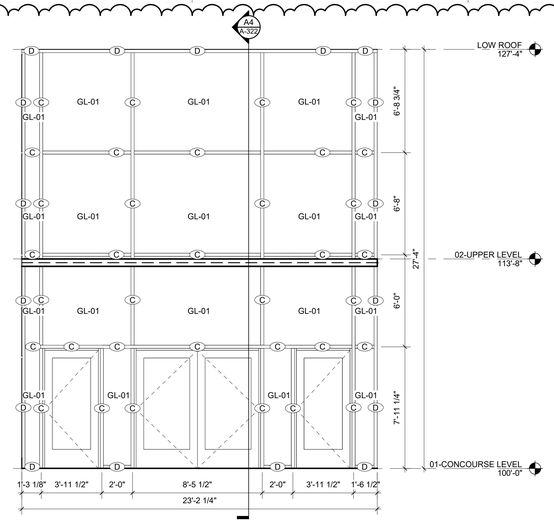
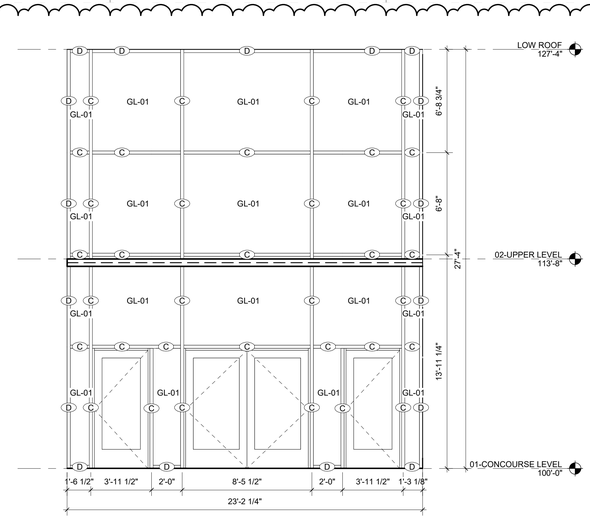
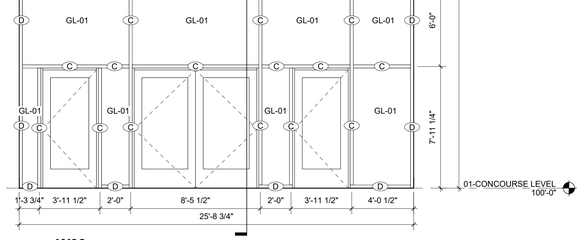


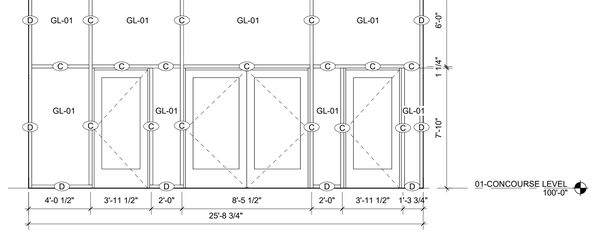
W11
1/4" = 1'-0"



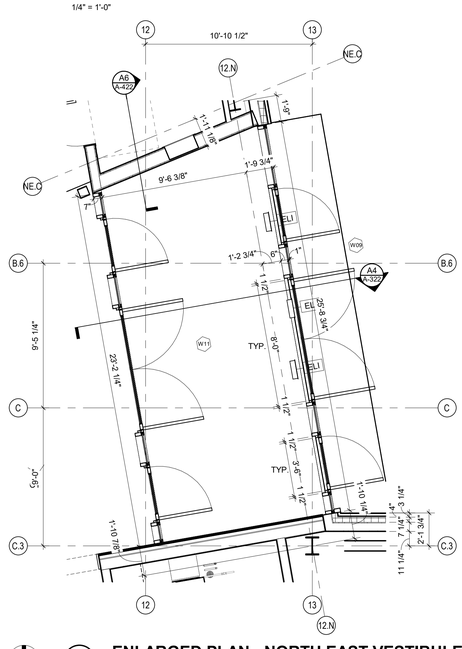
W10
1/4" = 1'-0"



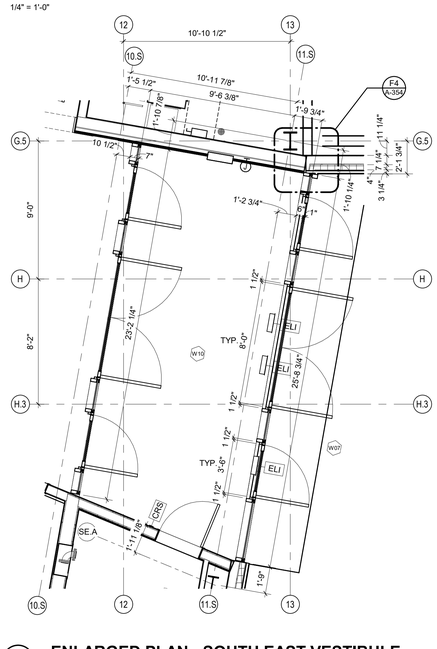
W09
1/4" = 1'-0"



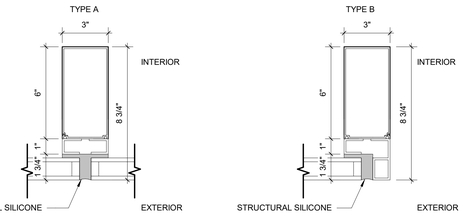
W07
1/4" = 1'-0"

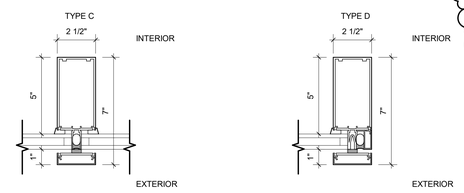


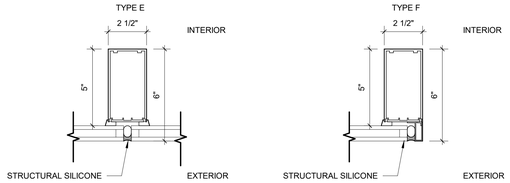
ENLARGED PLAN - NORTH EAST VESTIBULE
1/4" = 1'-0"

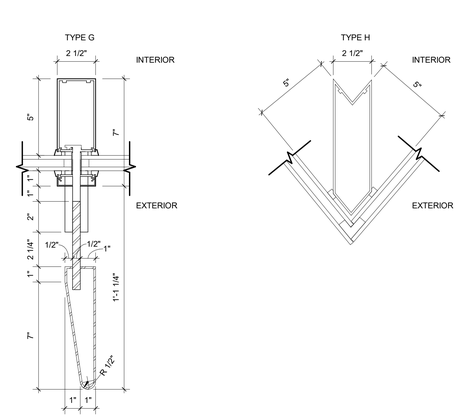


ENLARGED PLAN - SOUTH EAST VESTIBULE
1/4" = 1'-0"









A6 / A-623 Mullion types components
3" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
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GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

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SHEET TITLE
GLAZING ELEVATIONS AND PLANS

SHEET NUMBER
A-623

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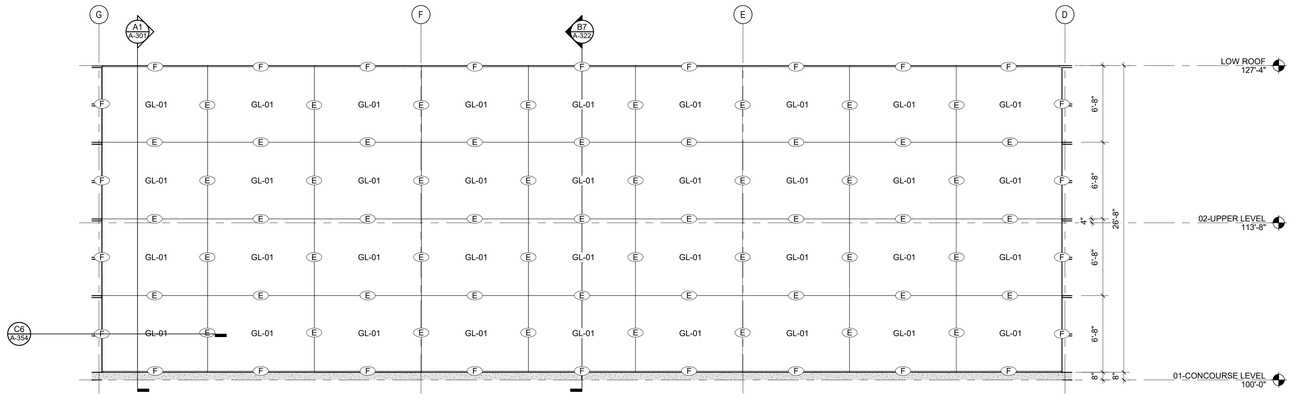
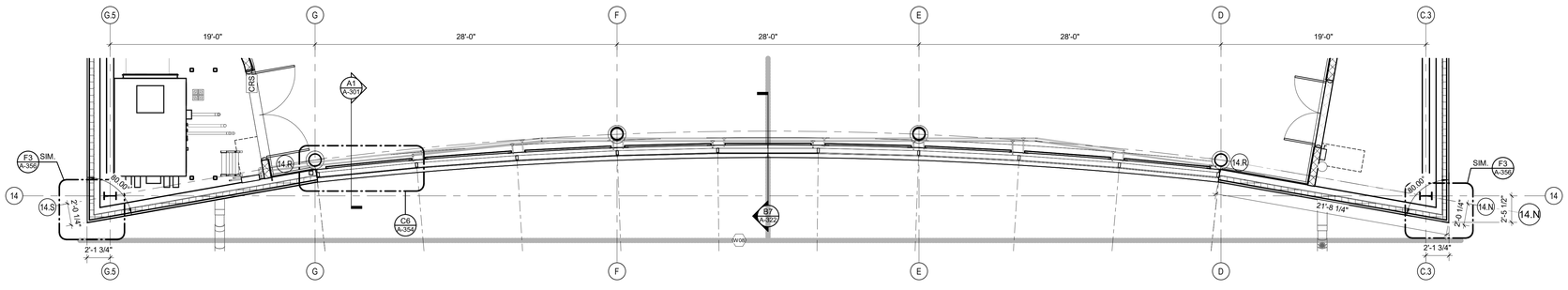


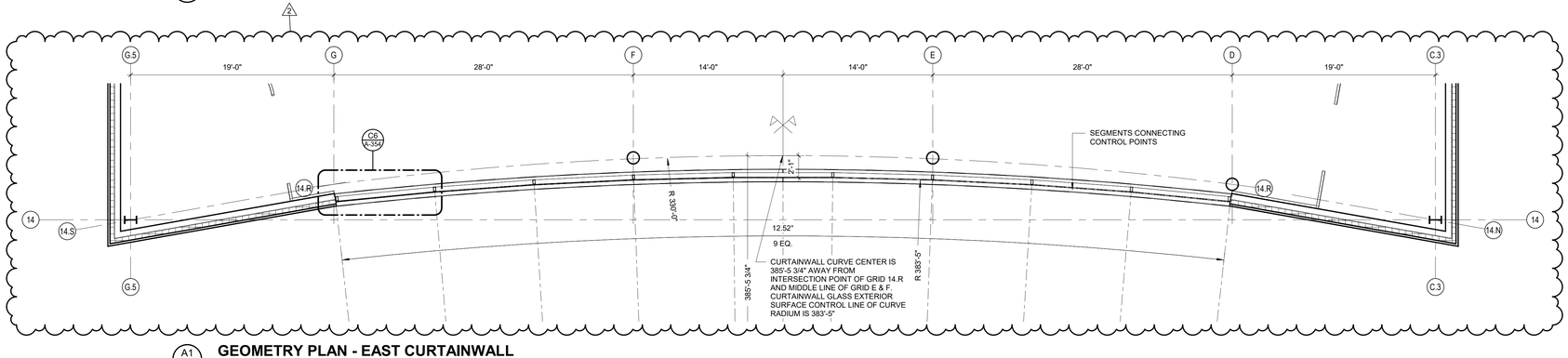
W08

3/16" = 1'-0"



B1 A-624 **EAST GLAZING ELEVATION**

3/16" = 1'-0"



A1 A-624 **GEOMETRY PLAN - EAST CURTAINWALL**

3/16" = 1'-0"

GLAZING SCHEDULE

GL-01	CLEAR INSULATING GLASS, LOW-E COATED - EXTERIOR APPLICATIONS
GL-02	CERAMIC COATED SPANDREL GLASS - EXTERIOR APPLICATIONS
GL-03	INSULATING, CERAMIC COATED VISION GLASS - EXTERIOR APPLICATIONS
GL-05	CLEAR INSULATING GLASS, LOW-E COATED, LAMINATED - EXTERIOR APPLICATIONS
GL-11	CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	DECORATIVE GLASS, FILM OVERLAY - INTERIOR APPLICATIONS
GL-13	CLEAR, LAMINATED - INTERIOR APPLICATIONS, FIRE RATED

KEYNOTES (SPEC BASED)

061600 A00

KEYNOTES (ACTION/GENERAL)

00-A1

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

IU Project NO. 20240127

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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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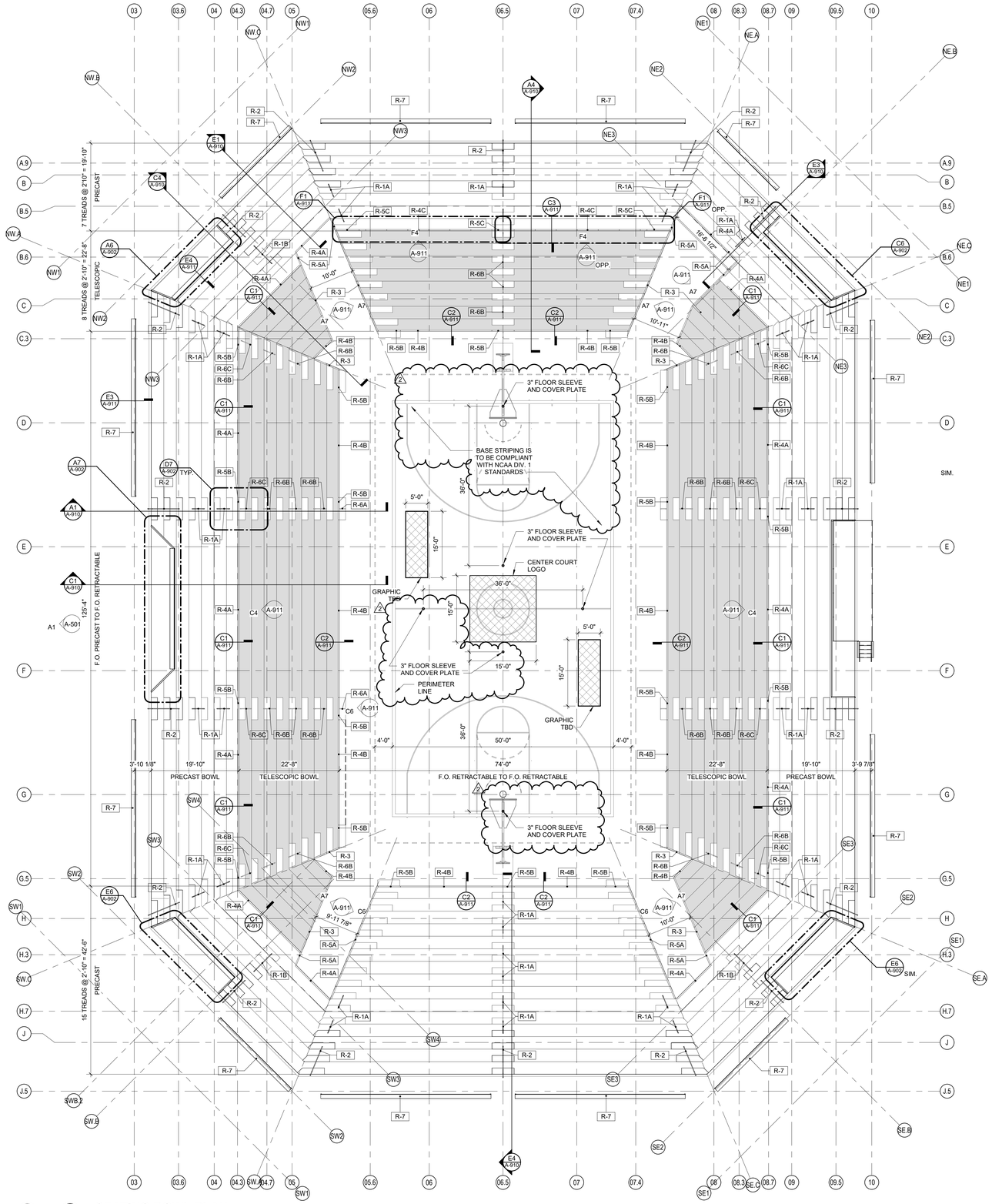
PROJECT NO. 23112.000

SHEET TITLE
GLAZING ELEVATIONS AND PLANS

SHEET NUMBER
A-624

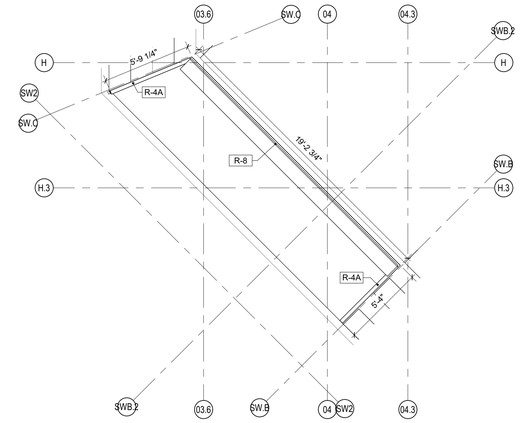
1/26/2025 10:18:47 PM



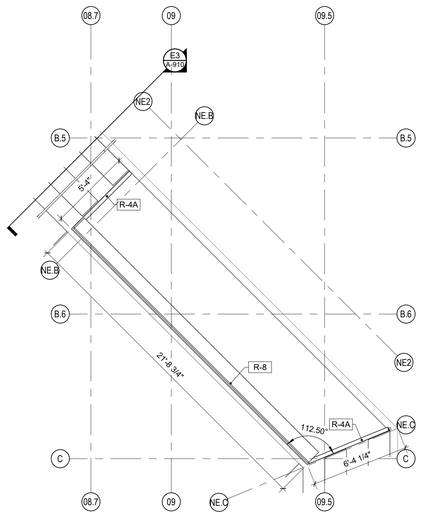
A1 A-902 **SEATING BOWL PLAN**
3/32" = 1'-0"

GENERAL BOWL NOTES

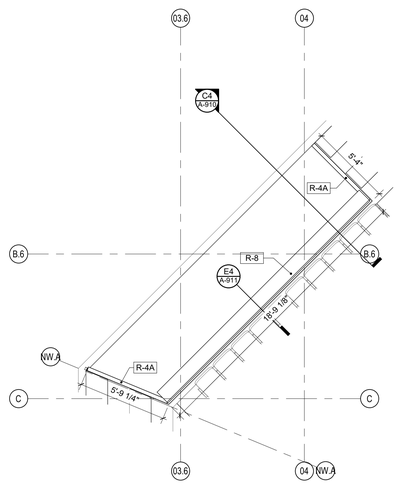
A. ALL PAINT COLORS TO BE CUSTOM PIGMENTS AS DETERMINED BY ARCHITECT AND OWNER.
B. VOLLEYBALL COURT LINES TO BE TAPED. REFER TO A-901/C1 & A-901/C3 FOR SINGLE AND DUAL VOLLEYBALL COURT LAYOUT.



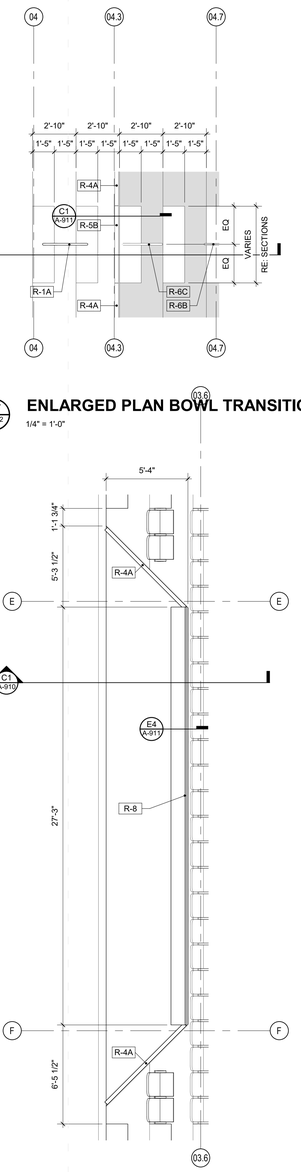
E6 A-902 **ENLARGED PLAN - OVERBUILD**
1/4" = 1'-0"



C6 A-902 **ENLARGED PLAN - NORTH EAST**
1/4" = 1'-0"



A6 A-902 **ENLARGED PLAN - OVERBUILD**
1/4" = 1'-0"



D7 A-902 **ENLARGED PLAN BOWL TRANSITION**
1/4" = 1'-0"

A7 A-902 **ENLARGED PLAN - OVERBUILD**
1/4" = 1'-0"

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE — REGISTERED — No. AR00034154 — STATE OF INDIANA — ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
DIMENSIONED SEATING BOWL PLAN

SHEET NUMBER
A-902

1/24/2025 4:08:50 PM



G1 A-910 **SECTION DETAIL - TYP. TREAD NOSING**

1 1/2" = 1'-0"

SEATING BOWL RAIL TYPES AND DESCRIPTIONS

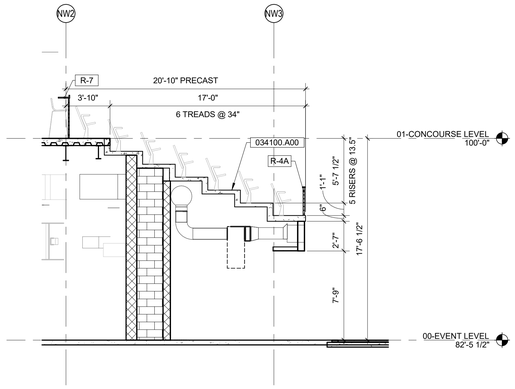
R-1A	MID-AISLE TWO-LINE HANDRAIL, TWO STEP (PERM)
R-1B	MID-AISLE TWO-LINE HANDRAIL, THREE STEP (PERM)
R-2	MID-AISLE TWO-LINE HANDRAIL, THREE STEP WITH TOP EXTENSION (PERM)
R-3	GUARDRAIL AT ENDS 42" T (TELESCOPICS)
R-4A	PERM RAIL 30" T (ALUMINUM POST, BOLTED TO PRECAST)
R-4B	COURTESY RAIL 30" T (ROW 1, TELESCOPICS, REMOVABLE)
R-4C	REMOVABLE RAIL 30" T (ALUMINUM BAR, POSTS-BOLTED CONNECTION)
R-5A	REMOVABLE RAIL 42" T (PRECAST)
R-5B	REMOVABLE GUARDRAIL 42" T (ALUMINUM POST, BOLTED CONNECTION)
R-5C	REMOVABLE GUARDRAIL 42" T (ALUMINUM POST, BOLTED CONNECTION)
R-6A	SINGLE-LINE P RAIL (20") - BY BLEACHER MANUFACTURER
R-6B	SINGLE-LINE P RAIL (36") - BY BLEACHER MANUFACTURER
R-6C	SINGLE-LINE P RAIL OPP. (32") - BY BLEACHER MANUFACTURER
R-7	DRINK RAIL, 42" T (PERM)
R-8	DRINK RAIL 30" T (PERM)

BOWL RAIL TYPE DESCRIPTION

KEYNOTES (SPEC BASED)

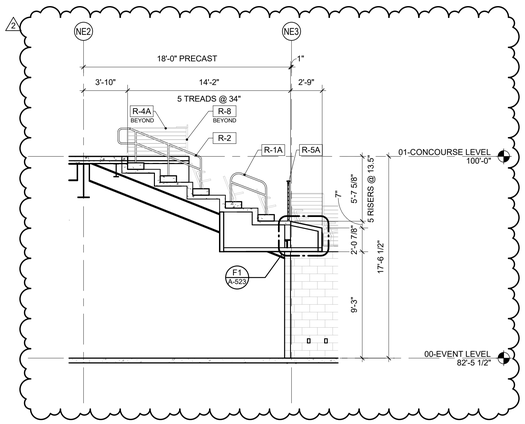
061600.A00

033000.A08	CAST-IN-PLACE CONCRETE STAIR
034100.A00	PRECAST STRUCTURAL CONCRETE
126600.A00	TELESCOPING STANDS



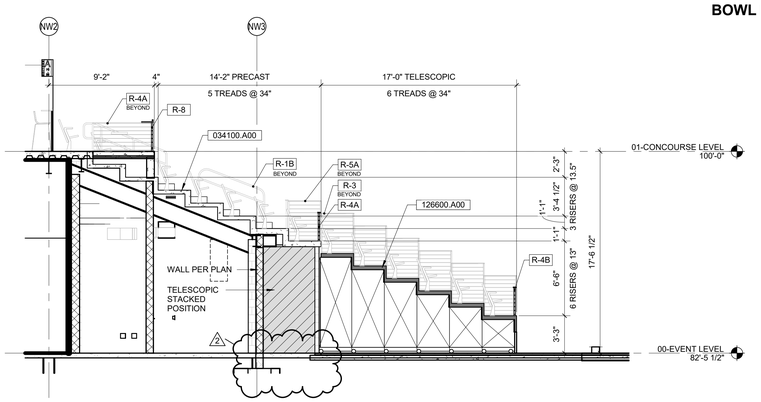
E1 A-910 **SEATING BOWL SECTION - NW**

3/16" = 1'-0"



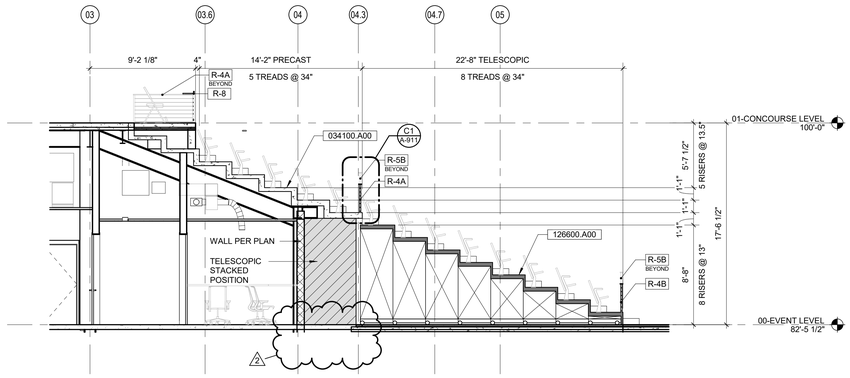
E3 A-910 **SEATING BOWL SECTION - NE AISLE**

3/16" = 1'-0"



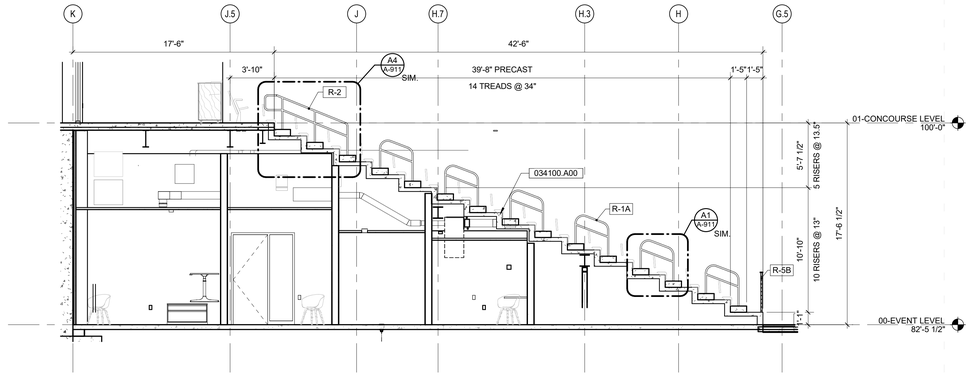
C4 A-910 **SEATING BOWL SECTION - CORNER**

3/16" = 1'-0"



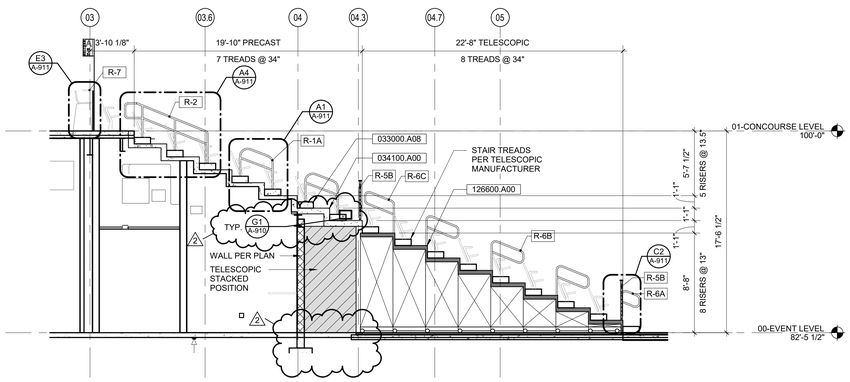
C1 A-910 **SEATING BOWL SECTION - OVERBUILD**

3/16" = 1'-0"



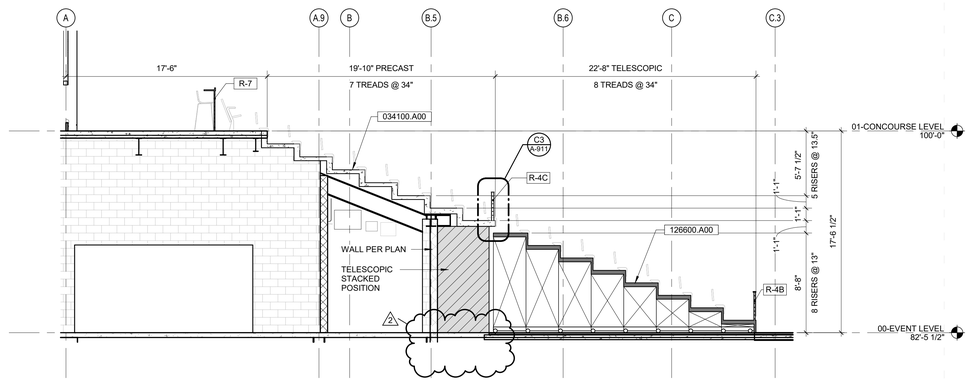
E4 A-910 **SEATING BOWL SECTION - SOUTH AISLE**

3/16" = 1'-0"



A1 A-910 **SEATING BOWL SECTION AISLE**

3/16" = 1'-0"



A4 A-910 **SEATING BOWL SECTION - NORTH**

3/16" = 1'-0"

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SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

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PROJECT NO. 23112.000

SHEET TITLE
ENLARGED SEATING BOWL SECTIONS

SHEET NUMBER
A-910

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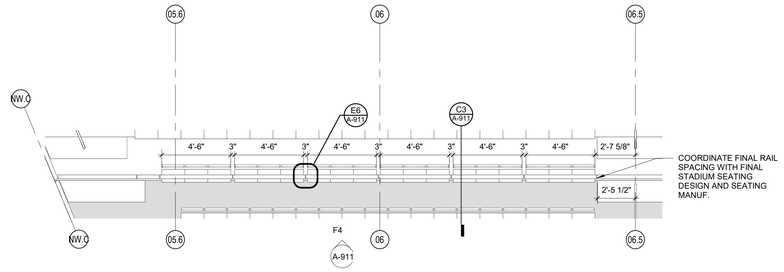
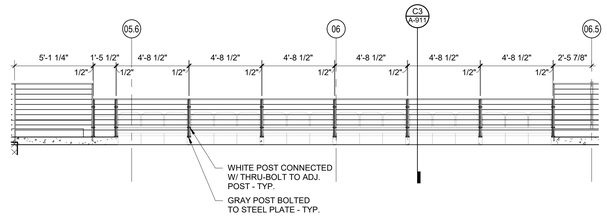


F1 A-911 **ENLARGED PLAN - N SEAT SPACING**

1/4" = 1'-0"



F4 A-911 **ELEV DTL - R-4C/5C**

1/4" = 1'-0"

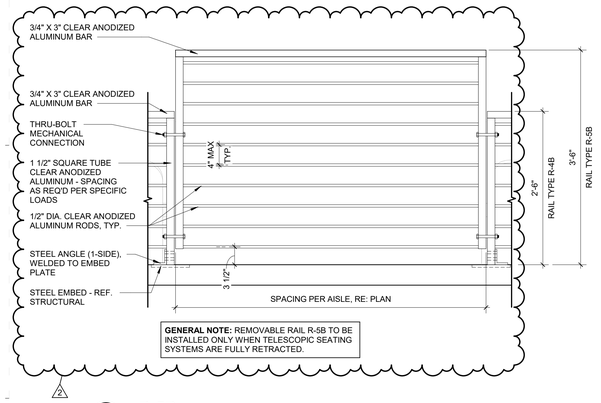
SEATING BOWL RAIL TYPES AND DESCRIPTIONS

R-1A	MID-AISLE TWO-LINE HANDRAIL, TWO STEP (PERM)
R-1B	MID-AISLE TWO-LINE HANDRAIL, THREE STEP (PERM)
R-2	MID-AISLE TWO-LINE HANDRAIL, THREE STEP WITH TOP EXTENSION (PERM)
R-3	GUARDRAIL AT ENDS 42" T (TELESCOPICS)
R-4A	PERM RAIL 30" T (ALUMINUM POST, BOLTED TO PRECAST)
R-4B	COURTESY RAIL 30" T (ROW 1, TELESCOPICS, REMOVABLE)
R-4C	REMOVABLE RAIL 30" T (ALUMINUM BAR, POSTS-BOLTED CONNECTION)
R-5A	REMOVABLE RAIL 42" T (PRECAST)
R-5B	REMOVABLE GUARDRAIL 42" T (ALUMINUM POST, BOLTED CONNECTION)
R-5C	REMOVABLE GUARDRAIL 42" T (ALUMINUM POST, BOLTED CONNECTION)
R-6A	SINGLE-LINE P RAIL (20") - BY BLEACHER MANUFACTURER
R-6B	SINGLE-LINE P RAIL (36") - BY BLEACHER MANUFACTURER
R-6C	SINGLE-LINE P RAIL OPP. (32") - BY BLEACHER MANUFACTURER
R-7	DRINK RAIL, 42" T (PERM)
R-8	DRINK RAIL 30" T (PERM)

BOWL RAIL TYPE DESCRIPTION

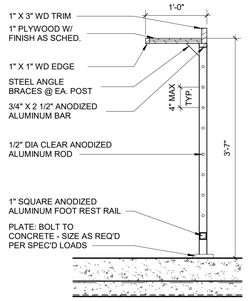
KEYNOTES (SPEC BASED)

061600.A00



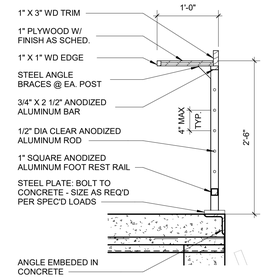
E1 A-911 **R-5B**

1" = 1'-0"



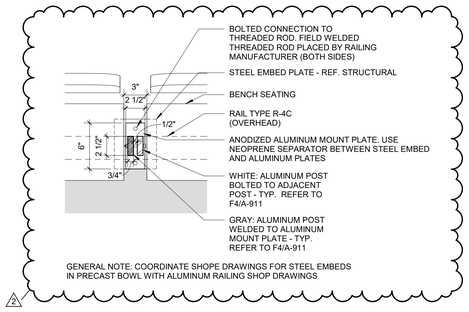
E3 A-911 **R-7 DRINK RAIL**

1" = 1'-0"



E4 A-911 **R-8 DRINK RAIL - 30"**

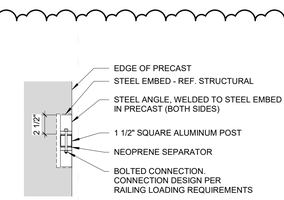
1" = 1'-0"



GENERAL NOTE: COORDINATE SHOPE DRAWINGS FOR STEEL EMBEDS IN PRECAST BOWL WITH ALUMINUM RAILING SHOP DRAWINGS

E6 A-911 **PLAN DTL - R-4C**

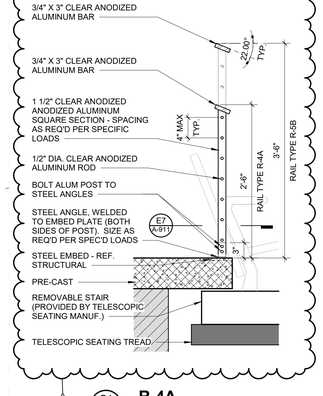
1 1/2" = 1'-0"



GENERAL NOTE: COORDINATE SHOPE DRAWINGS FOR STEEL EMBEDS IN PRECAST BOWL WITH ALUMINUM RAILING SHOP DRAWINGS

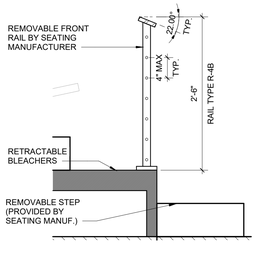
E7 A-911 **PLAN DETAIL - R-4A**

1 1/2" = 1'-0"



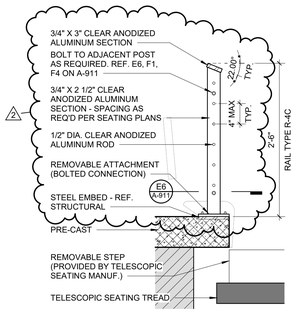
C1 A-911 **R-4A**

1" = 1'-0"



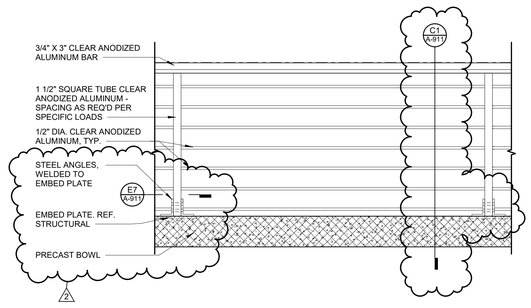
C2 A-911 **R-4B**

1" = 1'-0"



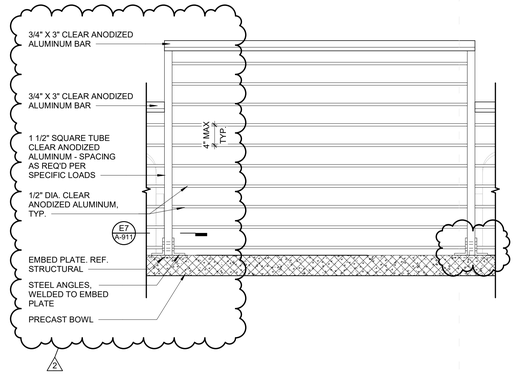
C3 A-911 **R-4C**

1" = 1'-0"



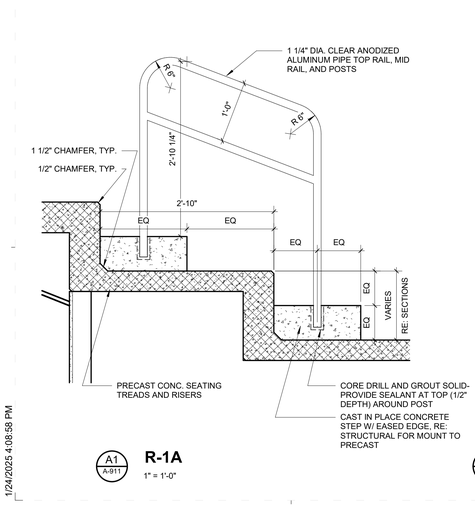
C4 A-911 **R-4A**

1" = 1'-0"



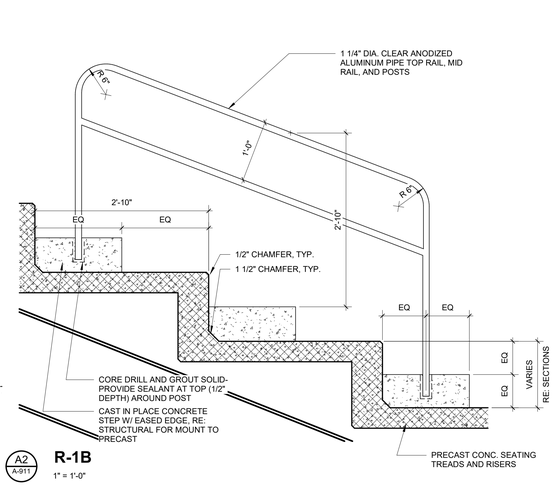
C6 A-911 **R-5A**

1" = 1'-0"



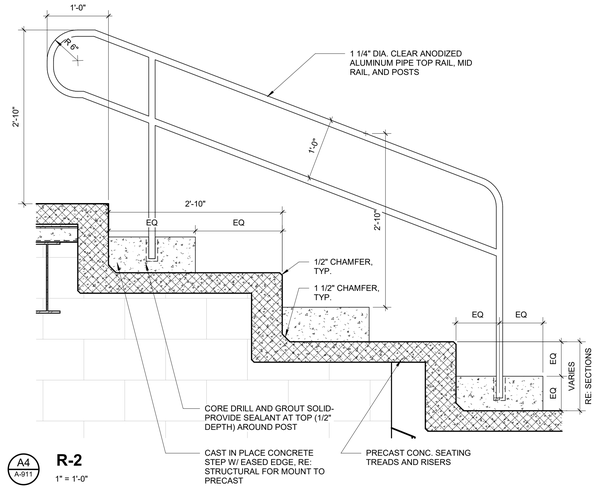
A1 A-911 **R-1A**

1" = 1'-0"



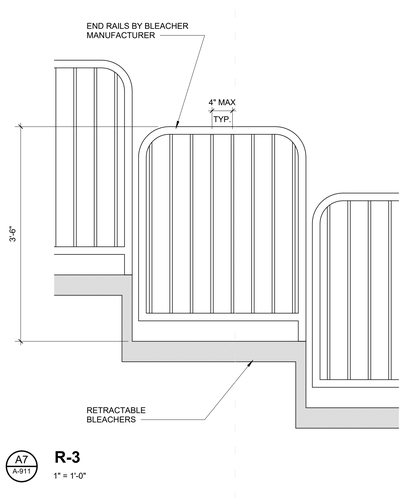
A2 A-911 **R-1B**

1" = 1'-0"



A4 A-911 **R-2**

1" = 1'-0"



A7 A-911 **R-3**

1" = 1'-0"

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IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE III REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

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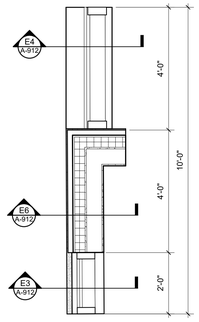
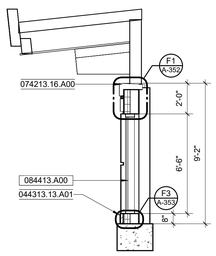
PROJECT NO. 23112.000

SHEET TITLE
RAIL DETAILS

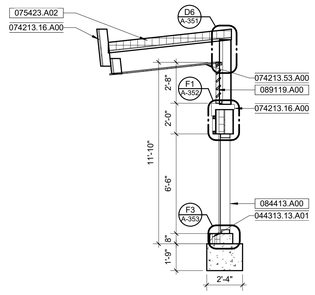
SHEET NUMBER
A-911



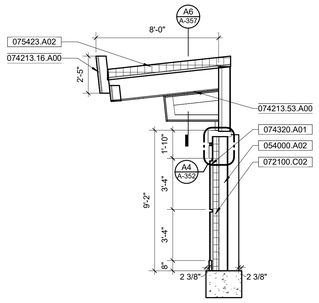
E1 A-912 **WALL MOCKUP PLAN**
1/2" = 1'-0"



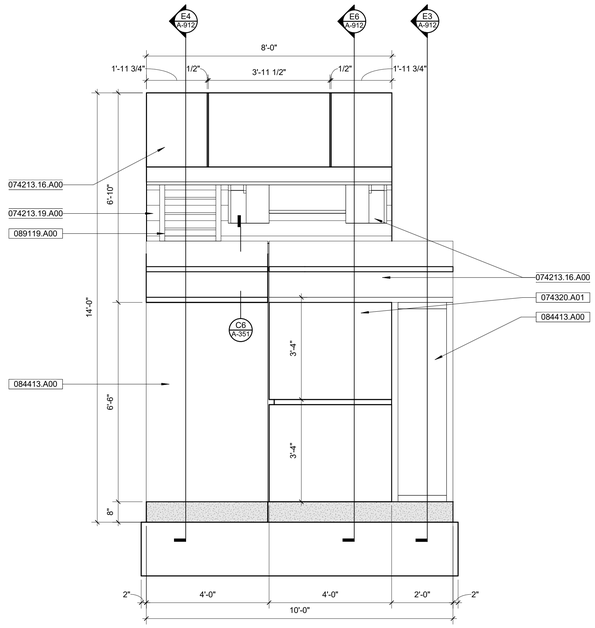
E3 A-912 **WALL SECTION**
1/4" = 1'-0"



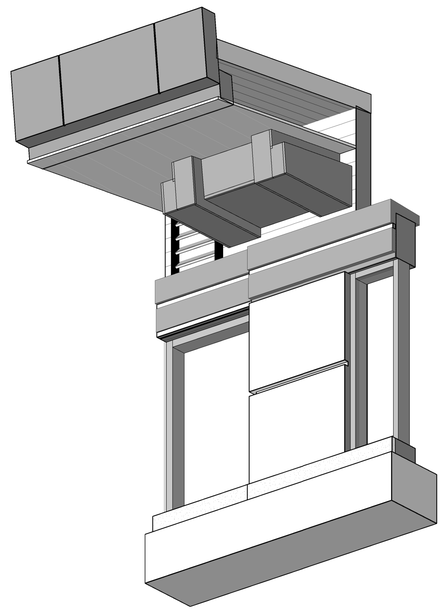
E4 A-912 **WALL SECTION**
1/4" = 1'-0"



E6 A-912 **WALL SECTION**
1/4" = 1'-0"



B2 A-912 **EXTERIOR ELEVATION**
1/2" = 1'-0"



B5 A-912 **WALL MOCKUP**

KEYNOTES (SPEC BASED)

061600.A00

044313.13.A01	ANCHORED STONE MASONRY VENEER - GRANITE
054000.A02	COLD-FORMED METAL FRAMING - 6"
072100.C02	MINERAL-WOOL BOARD
074213.16.A00	METAL PLATE WALL PANELS
074213.19.A00	INSULATED METAL WALL PANELS
074213.53.A00	METAL SOFFIT PANELS
074320.A01	EXTERIOR COMPOSITE WALL PANELS - INDIANA LIMESTONE
075423.A02	TPO ROOFING SYSTEM
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
089119.A00	FIXED LOUVERS

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816-806-3729

SEAL | DATE 01/27/25

WILLIAM A. BROWNE, JR. REGISTERED No. AR00034154 STATE OF INDIANA ARCHITECT

SHEET ISSUE

1	CONSTRUCTION DOCUMENTS	01/13/25
2	ADDENDUM 01	01/27/25

RATIO

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PROJECT NO. 23112.000

SHEET TITLE
WALL MOCKUP

SHEET NUMBER
A-912

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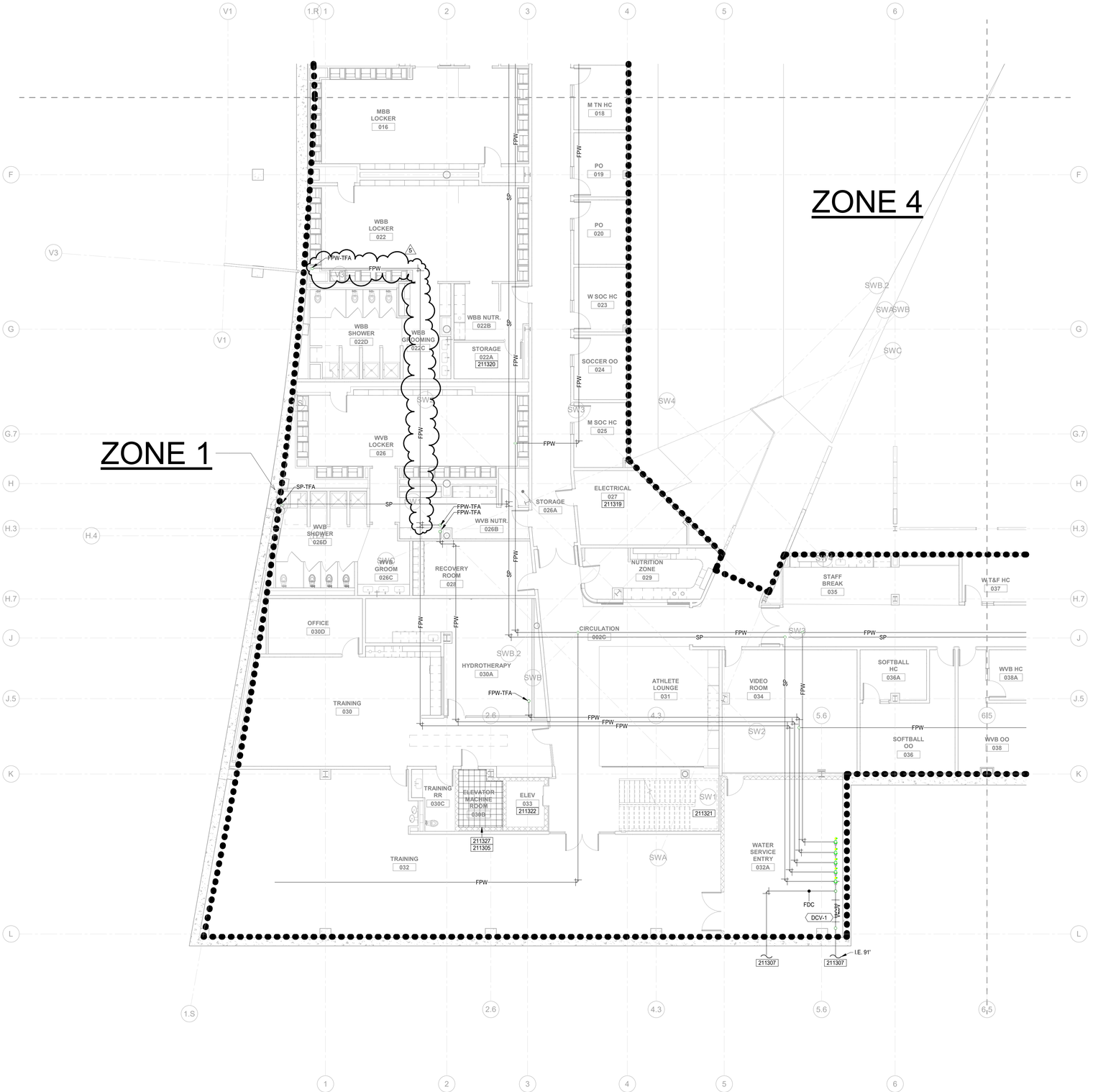

00-EVENT LEVEL FIRE PROTECTION INSTALLATION - AREA D
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

C. INSTALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211305	FIRE PROTECTION PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT.
211307	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
211319	PROVIDE SIDEWALL FULLY RECESSED SPRINKLER HEADS.
211320	FURNITURE AND STORAGE SYSTEMS/EQUIPMENT SHALL HAVE A MINIMUM OF 18" CLEAR SPACE BETWEEN TOP OF STORAGE SYSTEM AND BOTTOM FACE OF THE CEILING TILE FOR PROPER OPERATION OF SPRINKLER SYSTEM. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT OR ENGINEER TO SATISFY THE REQUIREMENT (TYP. ALL SPRINKLED ROOMS).
211321	PROVIDE SPRINKLER HEADS ON UNDERSIDE OF STAIR LANDING AS NEEDED.
211322	ELEVATOR SHAFT SHALL NOT BE SPRINKLED.
211327	ELEVATOR EQUIPMENT ROOMS TO NOT BE SPRINKLED.

ZONE 1	
FLOOR	SQ FT
EVENT LEVEL	39325
TOTAL	39325

ZONE 4	
FLOOR	SQ FT
EVENT LEVEL	21740
TOTAL	21740

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
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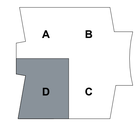

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE
EVENT LEVEL - AREA D

SHEET NUMBER
FP-201D

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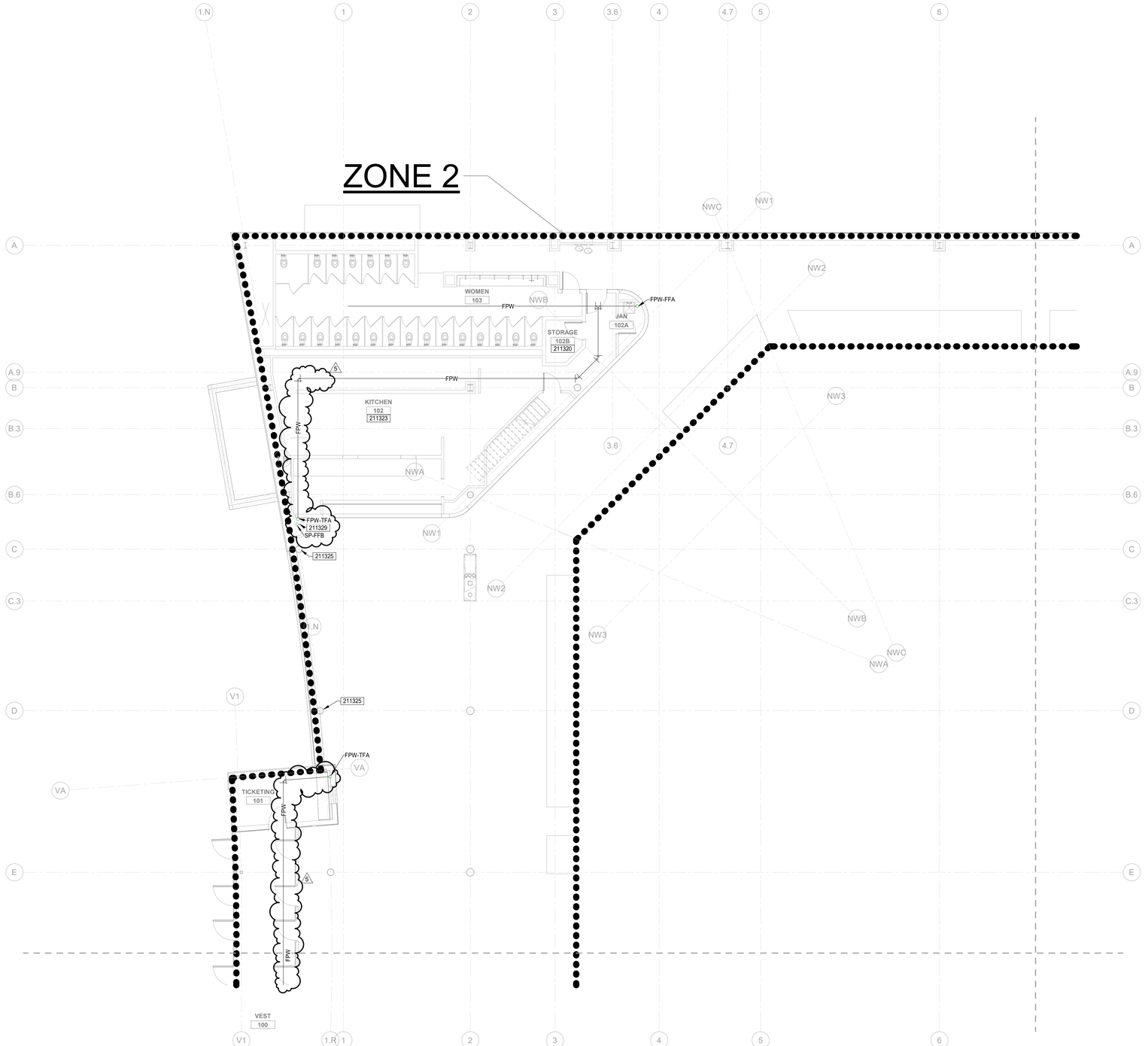

01-CONCOURSE LEVEL FIRE PROTECTION INSTALLATION - AREA A
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

C. INSTALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211320	FURNITURE AND STORAGE SYSTEMS/EQUIPMENT SHALL HAVE A MINIMUM OF 18" CLEAR SPACE BETWEEN TOP OF STORAGE SYSTEM AND BOTTOM FACE OF THE CEILING TILE FOR PROPER OPERATION OF SPRINKLER SYSTEM. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT OR ENGINEER TO SATISFY THE REQUIREMENT (TYP. ALL SPRINKLED ROOMS).
211323	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS NEAR KITCHEN HOOD.
211325	PROVIDE ADDITIONAL SPRINKLER HEADS 15' A.F.F. TO PROTECT NON-RATED STEEL COLUMNS PER NFPA13, SECTION 17.1.4.
211329	CLASS I STANDPIPE SYSTEM. PROVIDE 2-1/2" HOSE CONNECTION AND TEST DRAIN ASSEMBLY. PROVIDE ACCESS PANELS FOR TEST DRAIN ASSEMBLY AND FIRE DEPARTMENT VALVE.

ZONE 2	
FLOOR	SQ FT
CONCOURSE LEVEL	45810
UPPER LEVEL	4490
TOTAL	50300

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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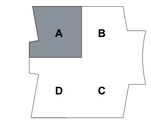
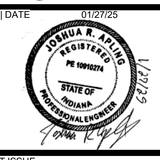


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
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PROJECT NO. 18082.000

SHEET TITLE
MAIN CONCOURSE LEVEL - AREA A

SHEET NUMBER
FP-202A

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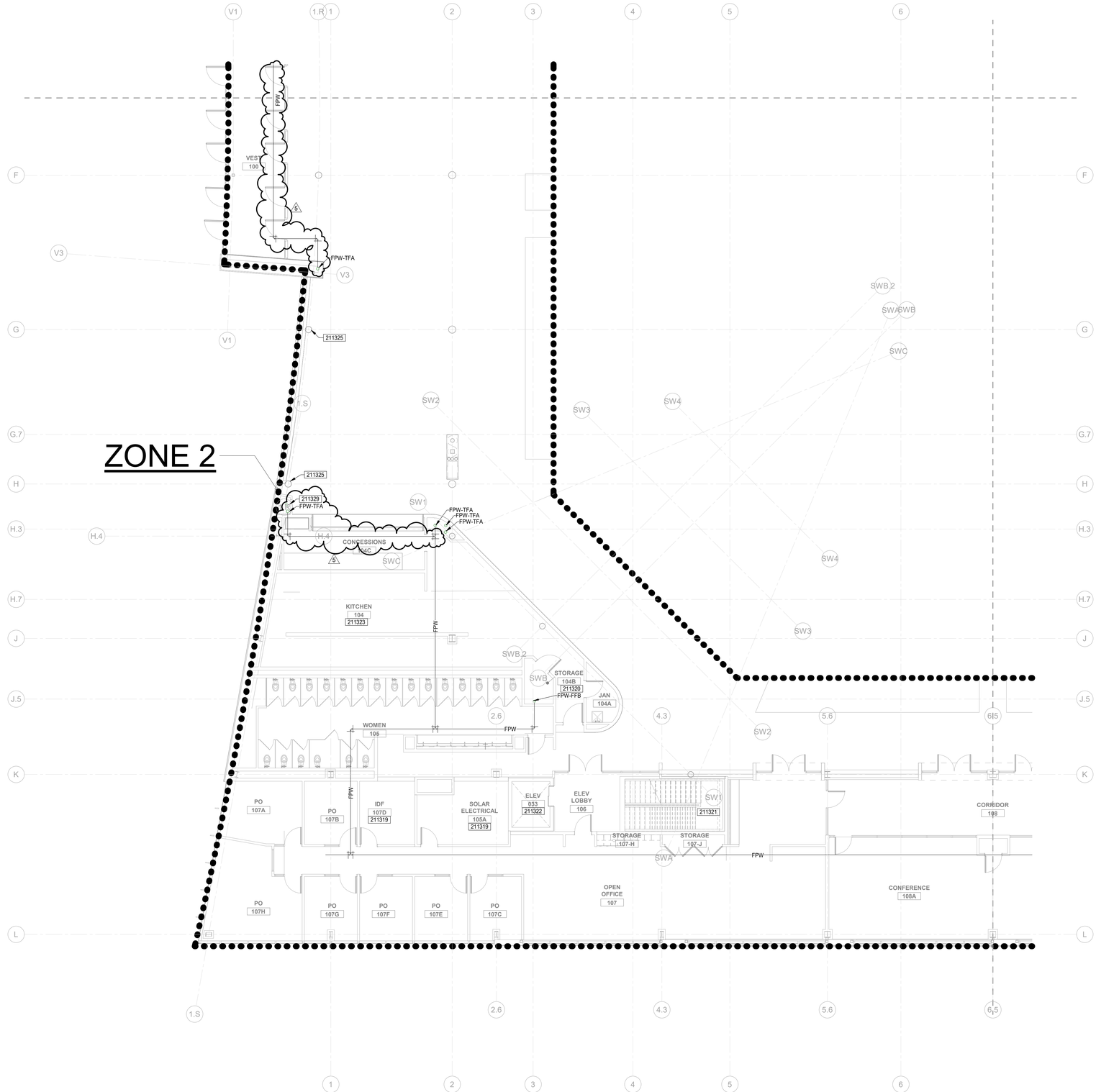

01-CONCOURSE LEVEL FIRE PROTECTION INSTALLATION - AREA D
SCALE: 1/8" = 1'-0"

NORTH

1/24/2025 2:36:50 PM

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

C. INSTALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211319	PROVIDE SIDEWALL FULLY RECESSED SPRINKLER HEADS.
211320	FURNITURE AND STORAGE SYSTEMS/EQUIPMENT SHALL HAVE A MINIMUM OF 18" CLEAR SPACE BETWEEN TOP OF STORAGE SYSTEM AND BOTTOM FACE OF THE CEILING TILE FOR PROPER OPERATION OF SPRINKLER SYSTEM. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT OR ENGINEER TO SATISFY THE REQUIREMENT (TYP. ALL SPRINKLED ROOMS).
211321	PROVIDE SPRINKLER HEADS ON UNDERSIDE OF STAIR LANDING AS NEEDED.
211322	ELEVATOR SHAFT SHALL NOT BE SPRINKLED.
211323	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS NEAR KITCHEN HOOD.
211325	PROVIDE ADDITIONAL SPRINKLER HEADS 15' A.F.F. TO PROTECT NON-RATED STEEL COLUMNS PER NFPA13, SECTION 17.1.4.
211329	CLASS I STANDPIPE SYSTEM. PROVIDE 2-1/2" HOSE CONNECTION AND TEST DRAIN ASSEMBLY. PROVIDE ACCESS PANELS FOR TEST DRAIN ASSEMBLY AND FIRE DEPARTMENT VALVE.

ZONE 2	
FLOOR	SQ FT
CONCOURSE LEVEL	45810
UPPER LEVEL	4490
TOTAL	50300

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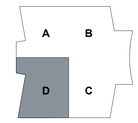

KEY PLAN

SEAL | DATE 01/27/25

JOSHUA R. APLING
REGISTERED
PE 10910274
STATE OF INDIANA
PROFESSIONAL ENGINEER
1/27/25

SHEET ISSUE		
1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
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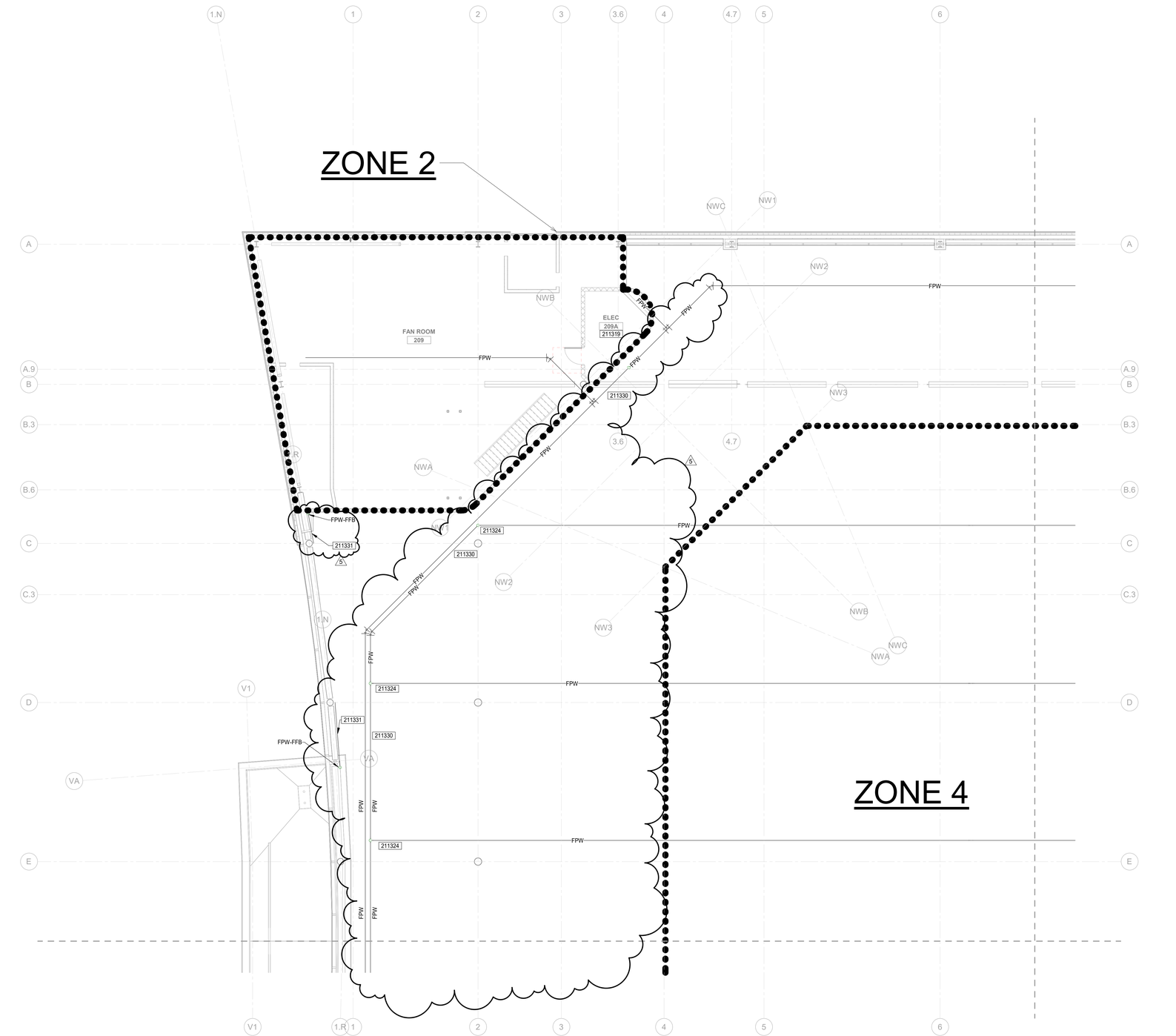
PROJECT NO. 18082.000

SHEET TITLE
MAIN CONCOURSE LEVEL - AREA D

SHEET NUMBER
FP-202D



02-UPPER LEVEL FIRE PROTECTION INSTALLATION - AREA A
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

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D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211319	PROVIDE SIDEWALL FULLY RECESSED SPRINKLER HEADS.
211324	FIRE PROTECTION MAINS TO BE INSTALLED IN BEAM POCKETS.
211330	FIRE PROTECTION MAINS ON UPPER LEVEL TO BE CONCEALED IN BULK HEAD.
211331	FIRE PROTECTION MAIN SERVING SPRINKLERS 15' A.F.F. ON COLUMNS TO BE ROUTED PARALLEL TO ARCHITECTURAL WIND BRACE IN ARCHITECTURAL ENCLOSURE, REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS.

ZONE 2	
FLOOR	SQ FT
CONCOURSE LEVEL	45810
UPPER LEVEL	4490
TOTAL	50300

IN128 - JAMES T. MORRIS ARENA

Ohio St & N Blackford St
Indianapolis, IN 46202

IU Project NO. 20240127

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Code Consultant
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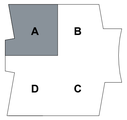
816-806-3729



KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE
UPPER LEVEL - AREA A

SHEET NUMBER
FP-203A

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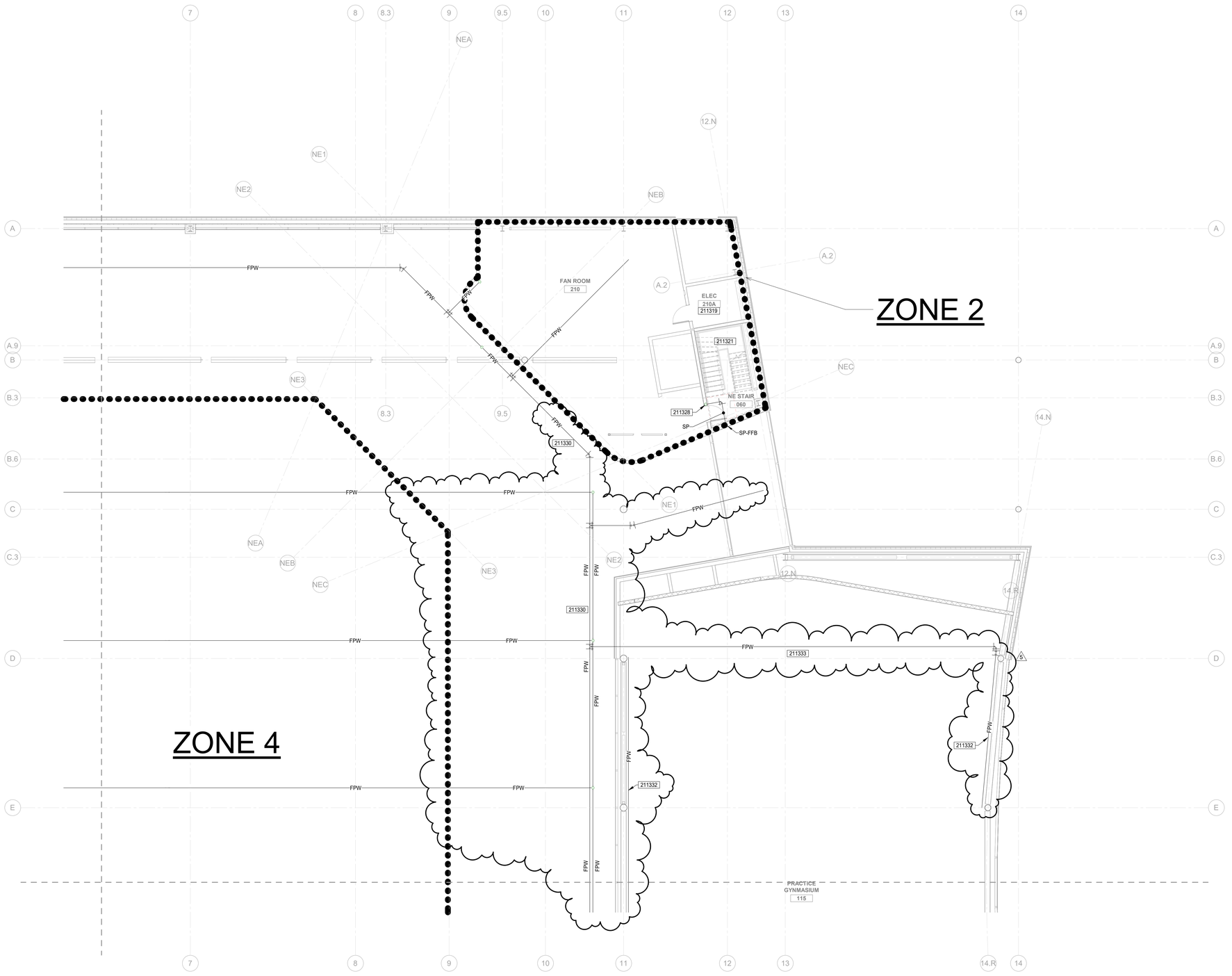

02-UPPER LEVEL FIRE PROTECTION INSTALLATION - AREA B
SCALE: 1/8" = 1'-0"

NORTH

1/24/2025 2:36:58 PM

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

C. INSTALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211319	PROVIDE SIDEWALL FULLY RECESSED SPRINKLER HEADS.
211321	PROVIDE SPRINKLER HEADS ON UNDERSIDE OF STAIR LANDING AS NEEDED.
211328	CLASS I STANDPIPE SYSTEM. PROVIDE 2-1/2" HOSE CONNECTION AND TEST DRAIN ASSEMBLY ON LANDING ABOVE. PROVIDE ACCESS PANELS FOR TEST DRAIN ASSEMBLY AND FIRE DEPARTMENT VALVE.
5 211330	FIRE PROTECTION MAINS ON UPPER LEVEL TO BE CONCEALED IN BULK HEAD.
211332	FIRE PROTECTION MAIN SERVING SPRINKLERS 15' A.F.F. ON COLUMNS TO BE ROUTED PARALLEL TO STRUCTURAL SUPPORT.
211333	FIRE MAINS IN EXPOSED AREAS TO BE ROUTED AS NEAR AS POSSIBLE TO NEARBY BEAMS.

ZONE 2	
FLOOR	SQ FT
CONCOURSE LEVEL	45810
UPPER LEVEL	4490
TOTAL	50300

IN128 - JAMES T. MORRIS ARENA

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Indianapolis, IN 46202

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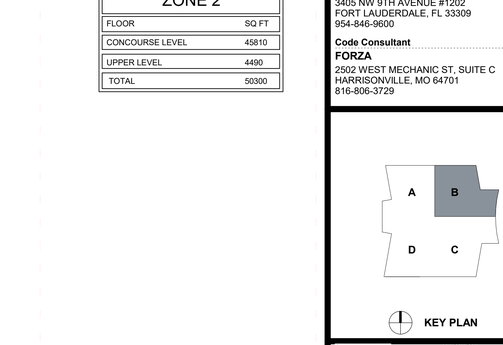

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

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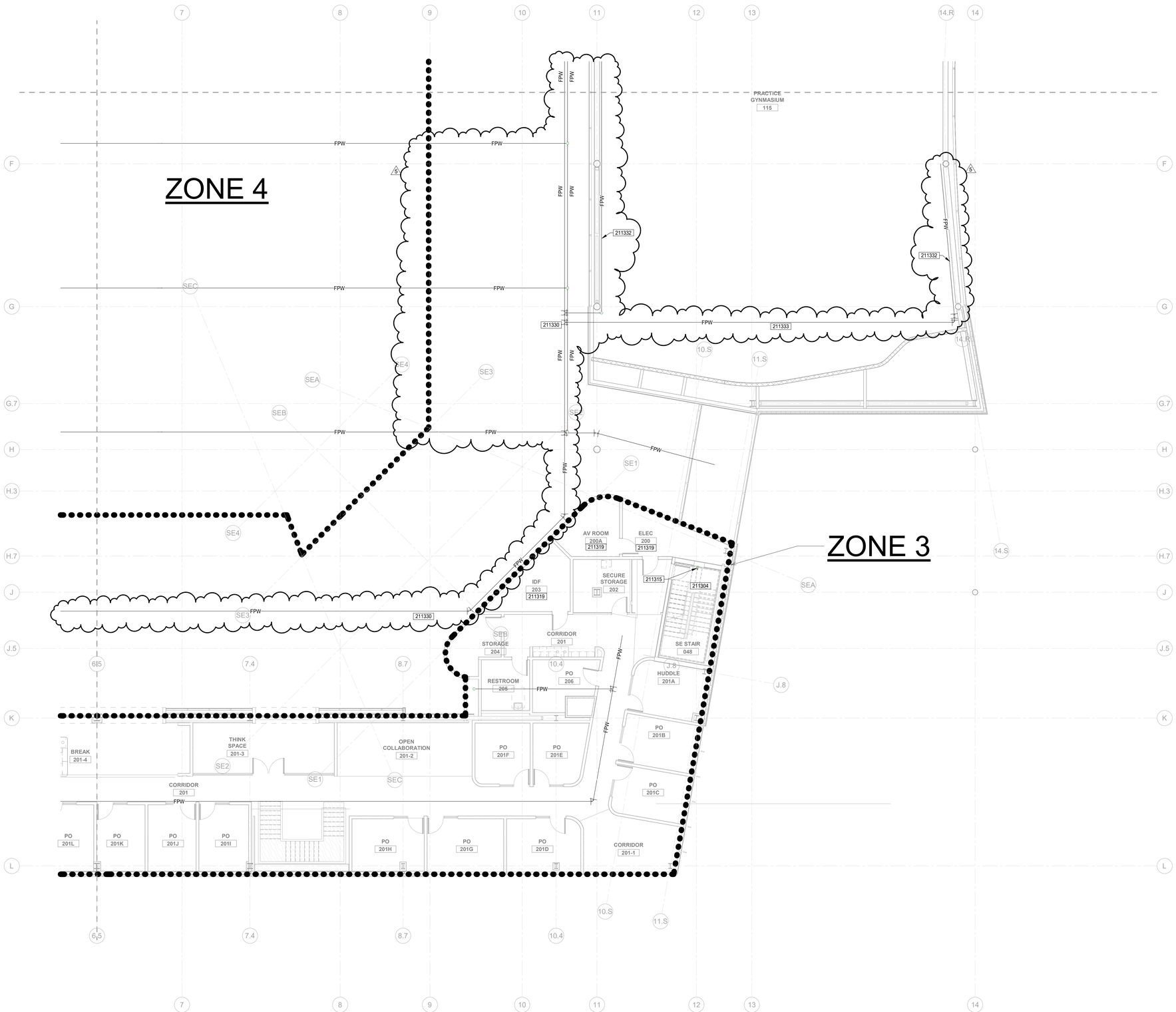
PROJECT NO. 18082.000

SHEET TITLE
UPPER LEVEL - AREA B

SHEET NUMBER
FP-203B



1 NORTH

02-UPPER LEVEL FIRE PROTECTION INSTALLATION - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

C. INSTALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211304	CLASS I STANDPIPE SYSTEM. PROVIDE 2-1/2" HOSE CONNECTION AND TEST DRAIN ASSEMBLY AT MAIN STAIRWELL LANDING(S) FOR FLOOR. PROVIDE SPRINKLER HEADS ON UNDERSIDE OF STAIR LANDING AS NEEDED.
211315	CLASS I STANDPIPE SYSTEM. PROVIDE 2-1/2" HOSE CONNECTION AND TEST DRAIN ASSEMBLY AT MAIN STAIRWELL LANDING FOR FLOOR. PROVIDE ACCESS PANELS FOR TEST DRAIN ASSEMBLY AND FIRE DEPARTMENT VALVE.
211319	PROVIDE SIDEWALL FULLY RECESSED SPRINKLER HEADS.
211330	FIRE PROTECTION MAINS ON UPPER LEVEL TO BE CONCEALED IN BULK HEAD.
211332	FIRE PROTECTION MAIN SERVING SPRINKLERS 15' A.F.F. ON COLUMNS TO BE ROUTED PARALLEL TO STRUCTURAL SUPPORT.
211333	FIRE MAINS IN EXPOSED AREAS TO BE ROUTED AS NEAR AS POSSIBLE TO NEARBY BEAMS.

ZONE 3	
FLOOR	SQ FT
UPPER LEVEL	12090
TOTAL	12090

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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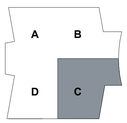
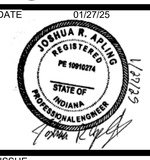


KEY PLAN

SEAL | DATE 01/27/25



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PROJECT NO. 18082.000

SHEET TITLE
UPPER LEVEL - AREA C

SHEET NUMBER
FP-203C

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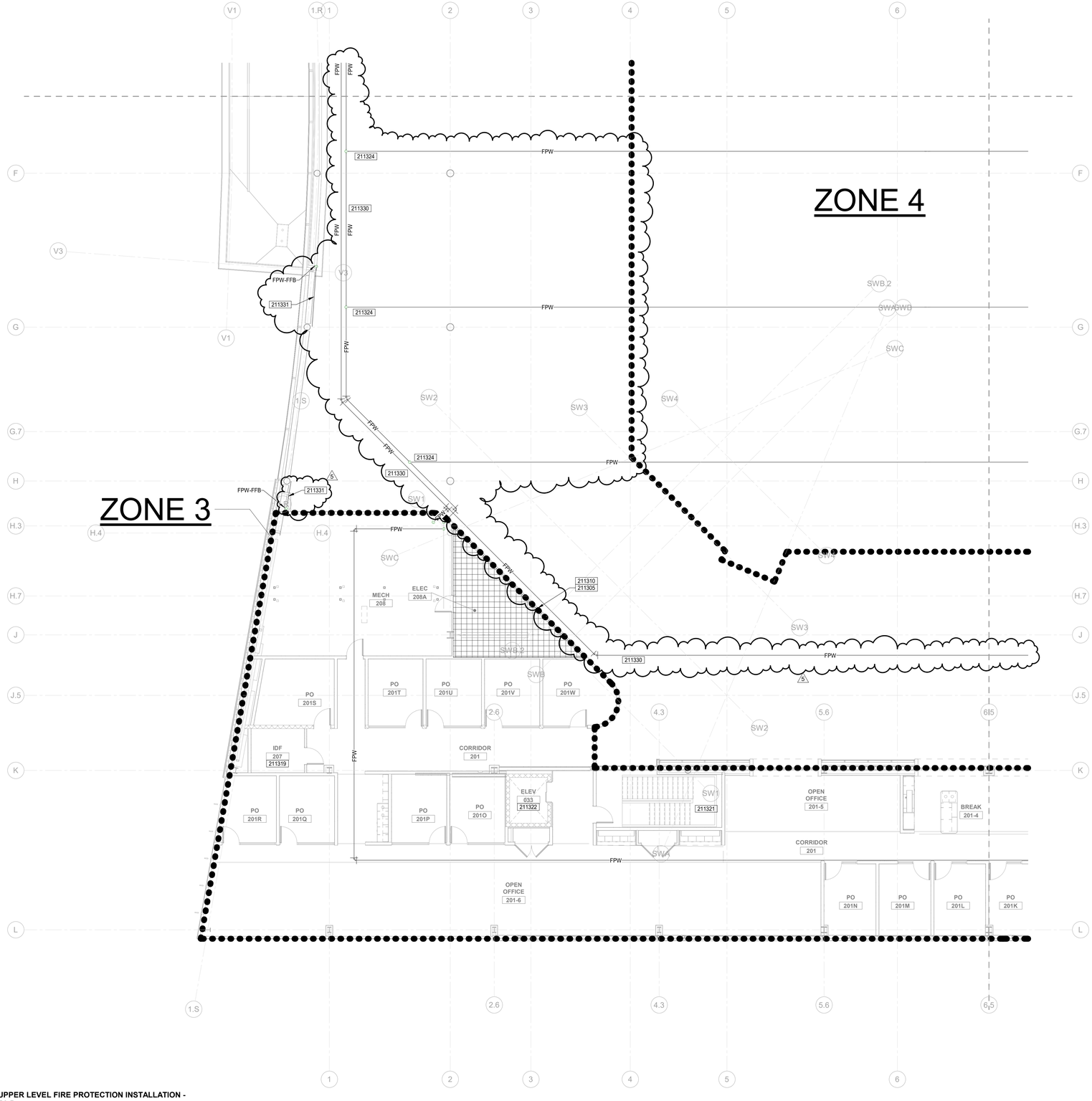

ZONE 3	
FLOOR	SQ FT
UPPER LEVEL	12090
TOTAL	12090

02-UPPER LEVEL FIRE PROTECTION INSTALLATION - AREA D
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET FP-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.

C. INSTALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. PROVIDE SPRINKLER HEADS BELOW ALL DUCTWORK 48" AND LARGER.

E. NOT ALL KEYNOTES APPLICABLE TO EACH SHEET.

F. ALL REQUIRED SHUT-OFF VALVES LOCATED ABOVE CEILINGS THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.

KEYNOTES

211305	FIRE PROTECTION PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT.
211310	MAIN ELECTRICAL ROOMS TO NOT BE SPRINKLED.
211319	PROVIDE SIDEWALL FULLY RECESSED SPRINKLER HEADS.
211321	PROVIDE SPRINKLER HEADS ON UNDERSIDE OF STAIR LANDING AS NEEDED.
211322	ELEVATOR SHAFT SHALL NOT BE SPRINKLED.
211324	FIRE PROTECTION MAINS TO BE INSTALLED IN BEAM POCKETS.
211330	FIRE PROTECTION MAINS ON UPPER LEVEL TO BE CONCEALED IN BULK HEAD.
211331	FIRE PROTECTION MAIN SERVING SPRINKLERS 15' A.F.F. ON COLUMNS TO BE ROUTED PARALLEL TO ARCHITECTURAL WIND BRACE IN ARCHITECTURAL ENCLOSURE. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS.

IN128 - JAMES T. MORRIS ARENA

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IU Project NO. 20240127

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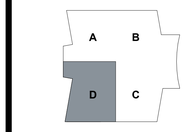

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
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PROJECT NO. 18082.000

SHEET TITLE
UPPER LEVEL - AREA D

SHEET NUMBER
FP-203D

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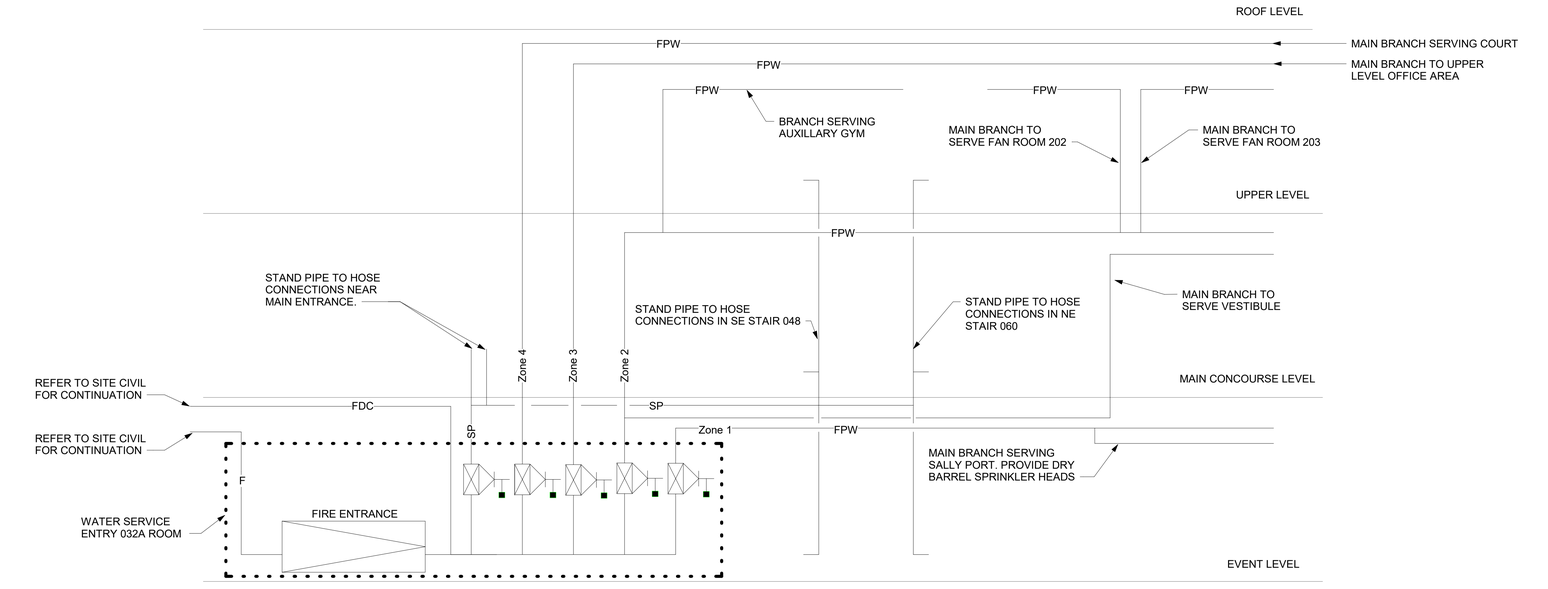

1 **FIRE PROTECTION SYSTEM RISER**
SCALE: N.T.S.

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SEAL | DATE 01/13/25



SHEET ISSUE

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PROJECT NO. 18082.000

SHEET TITLE
FIRE PROTECTION DETAILS

SHEET NUMBER
FP-401

1/24/2025 2:37:07 PM

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

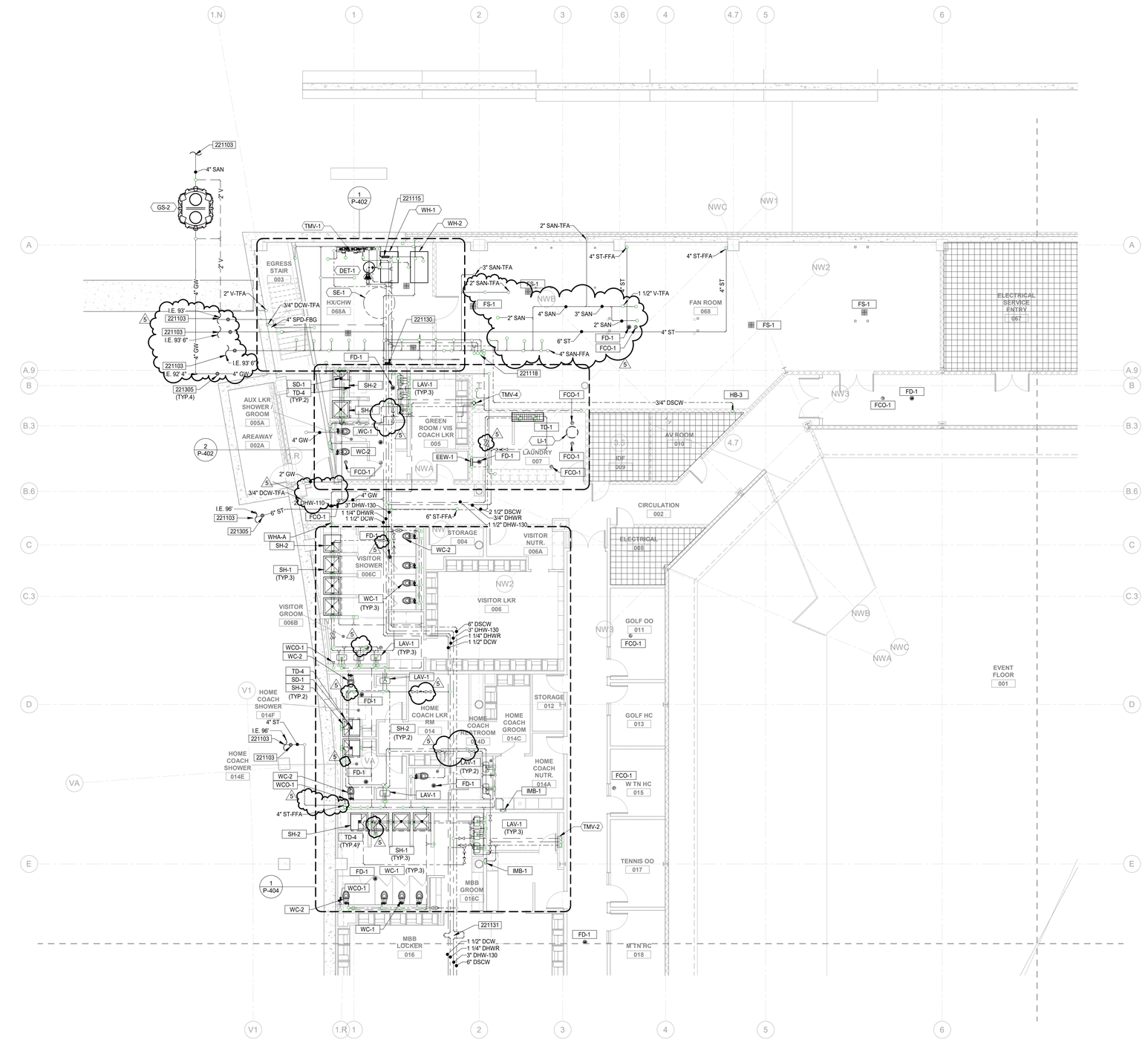
D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221103	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
221115	INSTALL PERMANENT AUTOMATIC WATER METER THAT MEASURES THE TOTAL POTABLE WATER USE FOR THE BUILDING AND ASSOCIATED GROUNDS AND CAN BE MONITORED VIA BMS. METER DATA MUST BE COMPILED INTO MONTHLY AND ANNUAL SUMMARIES.
221118	2" V, 2" DHW-130, 4" DSCW TO FLOOR ABOVE. 3/4" DHWR FROM FLOOR ABOVE.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
221131	PROVIDE EXPANSION LOOP IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION LOOPS PER MANUFACTURER RECOMMENDATION.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.



1 00-EVENT LEVEL PLUMBING INSTALLATION - AREA A
SCALE: 1/8" = 1'-0"

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

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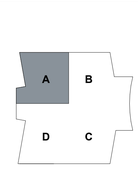

KEY PLAN

SEAL | DATE 01/27/25

JOSHUA R. APLING REGISTERED PE 10910374 STATE OF INDIANA PROFESSIONAL ENGINEER 1/27/25

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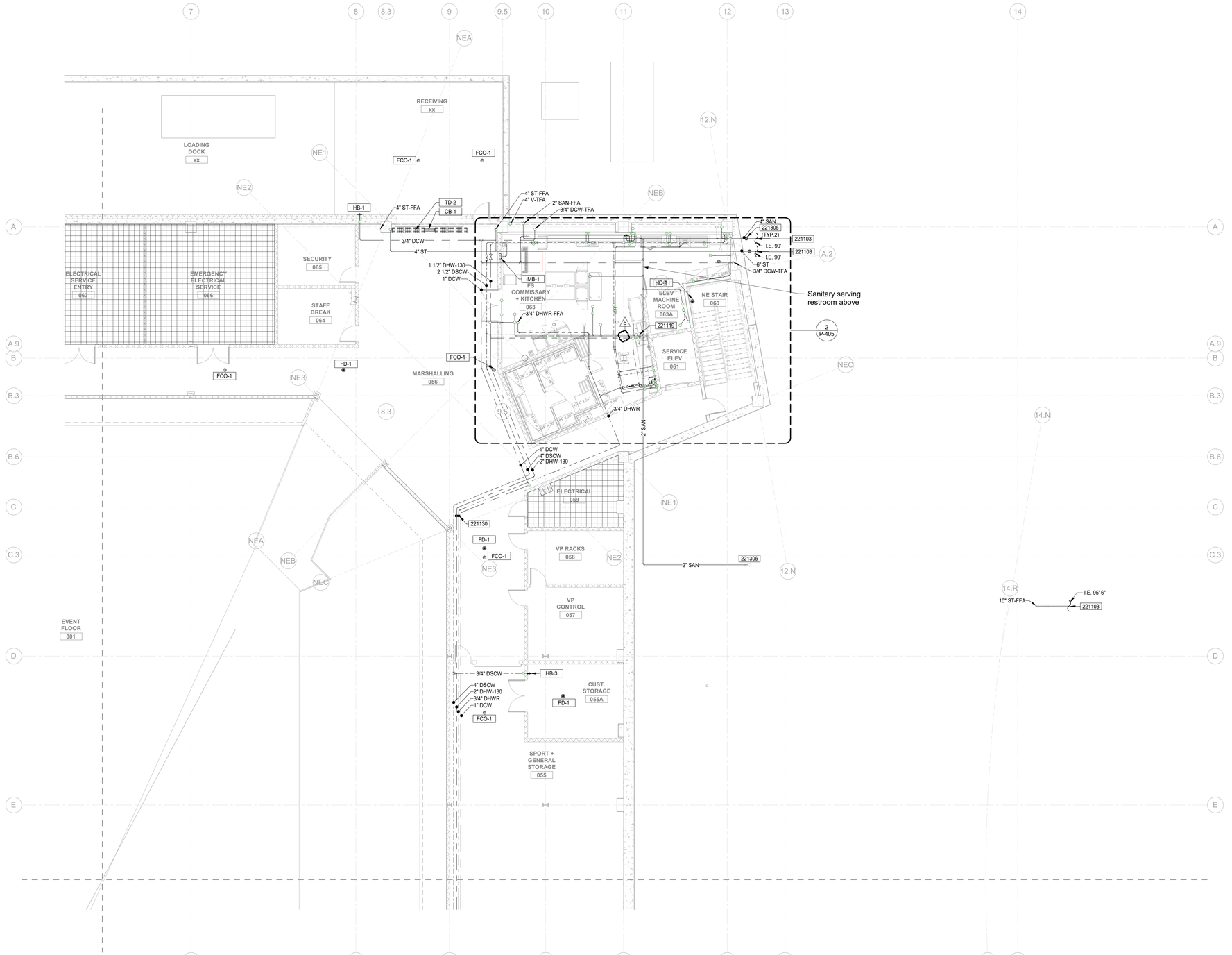
PROJECT NO. 18082.000

SHEET TITLE
EVENT LEVEL- AREA A

SHEET NUMBER
P-201A

1/24/2025 2:37:14 PM



1 **00-EVENT LEVEL PLUMBING INSTALLATION - AREA B**
SCALE: 1/8" = 1'-0"

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221103	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
221119	3" DSCW, 1 1/2" DHW-130 TO FLOOR ABOVE.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.
221306	2" SANITARY UP SERVING FLOOR DRAIN ON FLOOR ABOVE.

IN128 - JAMES T. MORRIS ARENA

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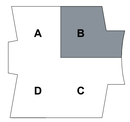

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE:
EVENT LEVEL- AREA B

SHEET NUMBER
P-201B

1/24/2025 2:37:19 PM



1 00-EVENT LEVEL PLUMBING INSTALLATION - AREA C
SCALE: 1/8" = 1'-0"

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221103	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221120	3" V, 3/4" DHWR, 1 1/2" DHW-130, 3" DSCW, 3/4" DCW TO FLOOR ABOVE.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
221131	PROVIDE EXPANSION LOOP IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION LOOPS PER MANUFACTURER RECOMMENDATION.
221132	3/4" DSCW AND DHW-130 TO MOP SINK.
221133	3/4" DSCW AND DHW-110 TO LAVATORY.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.
221306	2" SANITARY UP SERVING FLOOR DRAIN ON FLOOR ABOVE.
221307	4" SANITARY UP SERVING FLOOR SINK ON FLOOR ABOVE.

IN128 - JAMES T. MORRIS ARENA

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KEY PLAN

SEAL | DATE 01/27/25

JOSHUA R. APLING REGISTERED PE 10010374 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE
EVENT LEVEL- AREA C

SHEET NUMBER
P-201C

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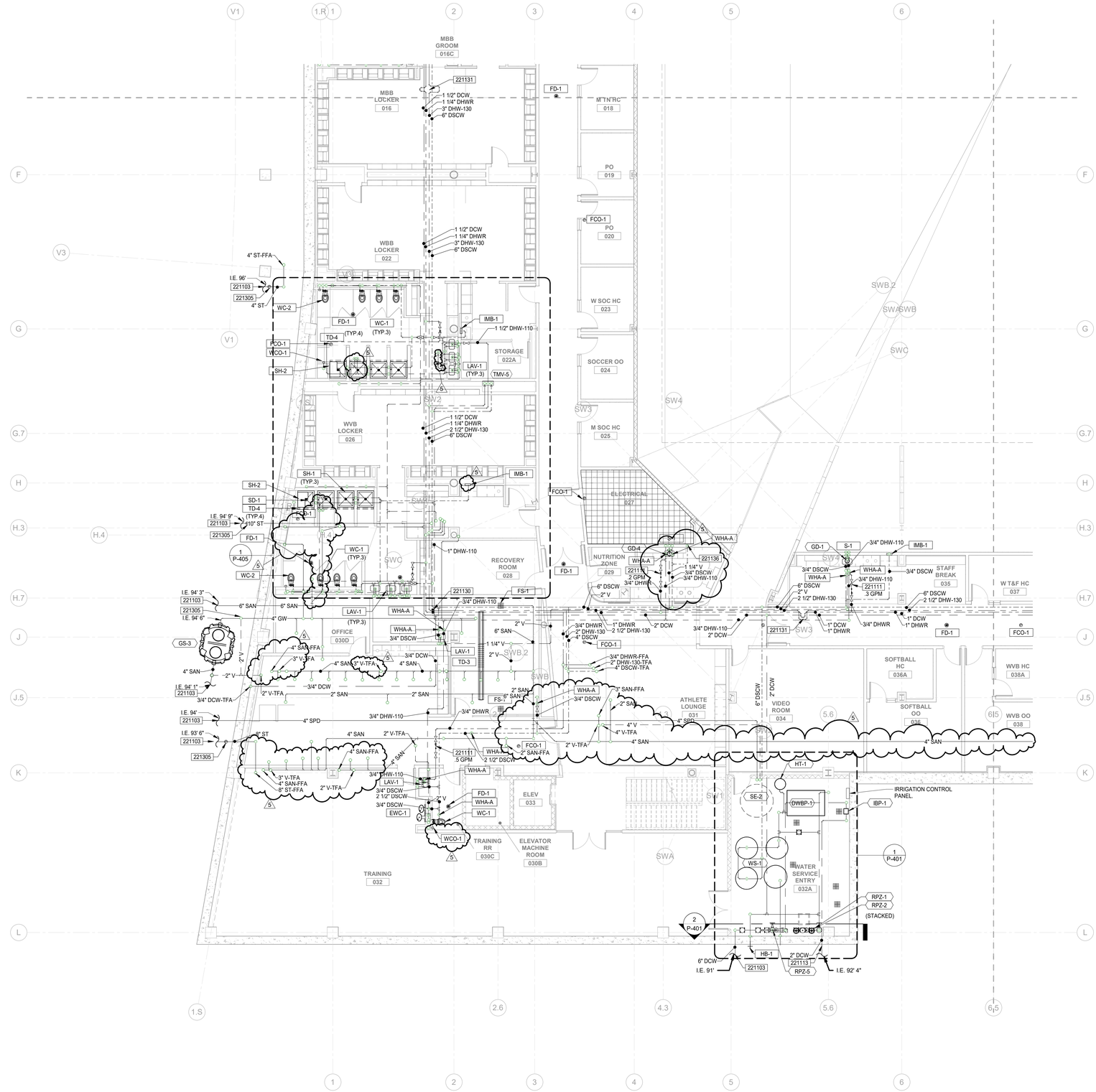

1 **00-EVENT LEVEL PLUMBING INSTALLATION - AREA D**
SCALE: 1/8" = 1'-0"

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

GENERAL NOTES

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F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221103	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221113	REFER TO IRRIGATION DRAWINGS FOR CONTINUATION.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
221131	PROVIDE EXPANSION LOOP IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION LOOPS PER MANUFACTURER RECOMMENDATION.
5 221136	3/4" DSCW TO DISHWASHER.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.

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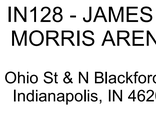
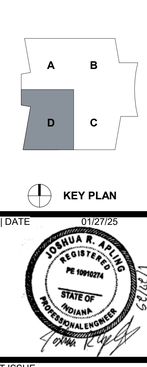


KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
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PROJECT NO. 18082.000

SHEET TITLE
EVENT LEVEL- AREA D

SHEET NUMBER
P-201D

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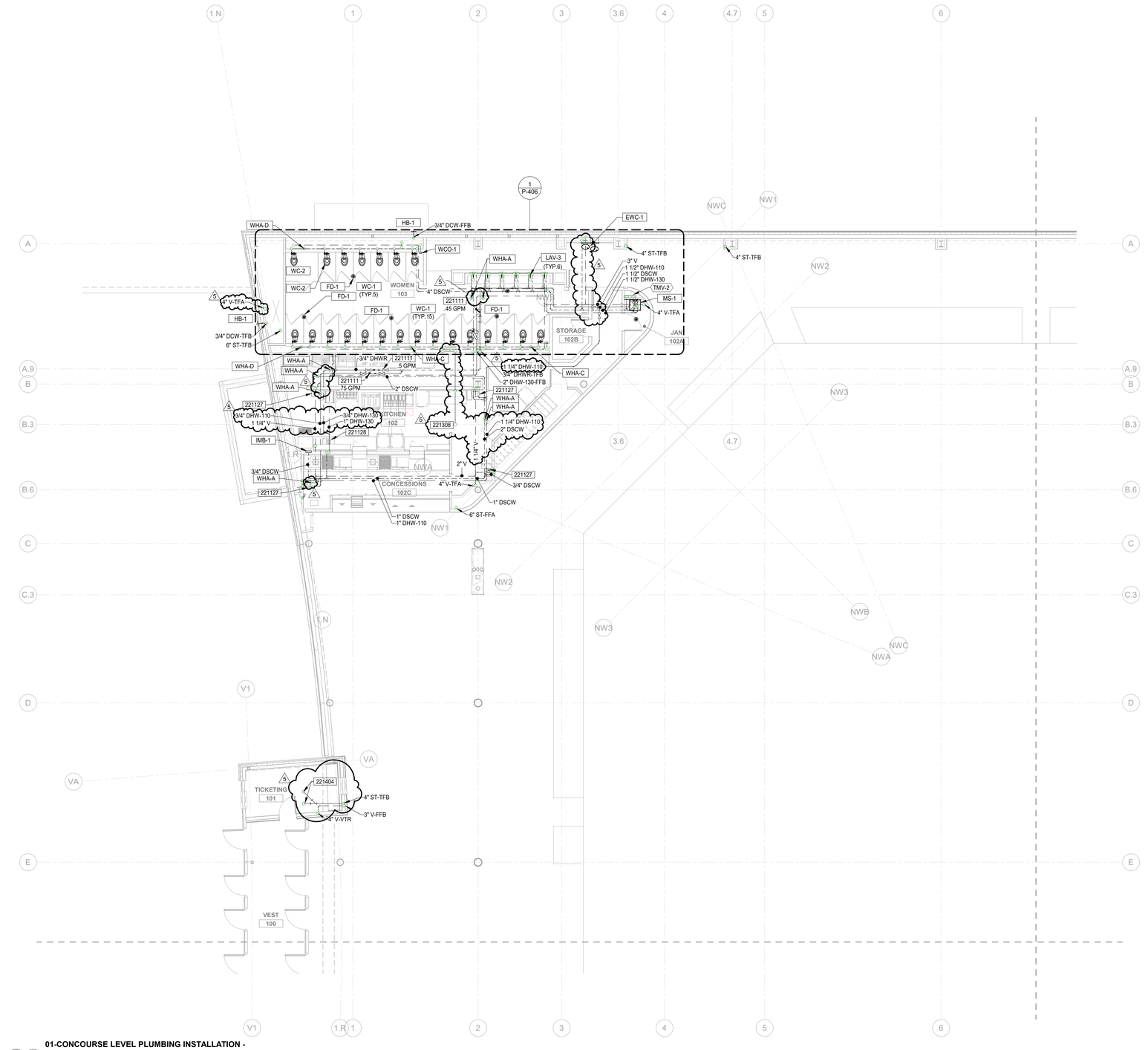

01-CONCOURSE LEVEL PLUMBING INSTALLATION - AREA A
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

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E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221127	3/4" DSCW AND DHW-110 TO SERVE KITCHEN HANDSINK
221128	3/4" DSCW AND DHW-130 TO SERVE KITCHEN SINK.
221308	2" SANITARY UP SERVING FLOOR SINK ON FLOOR ABOVE.
221404	STORM RISER DOWN FROM ROOF DRAIN

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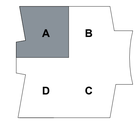

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
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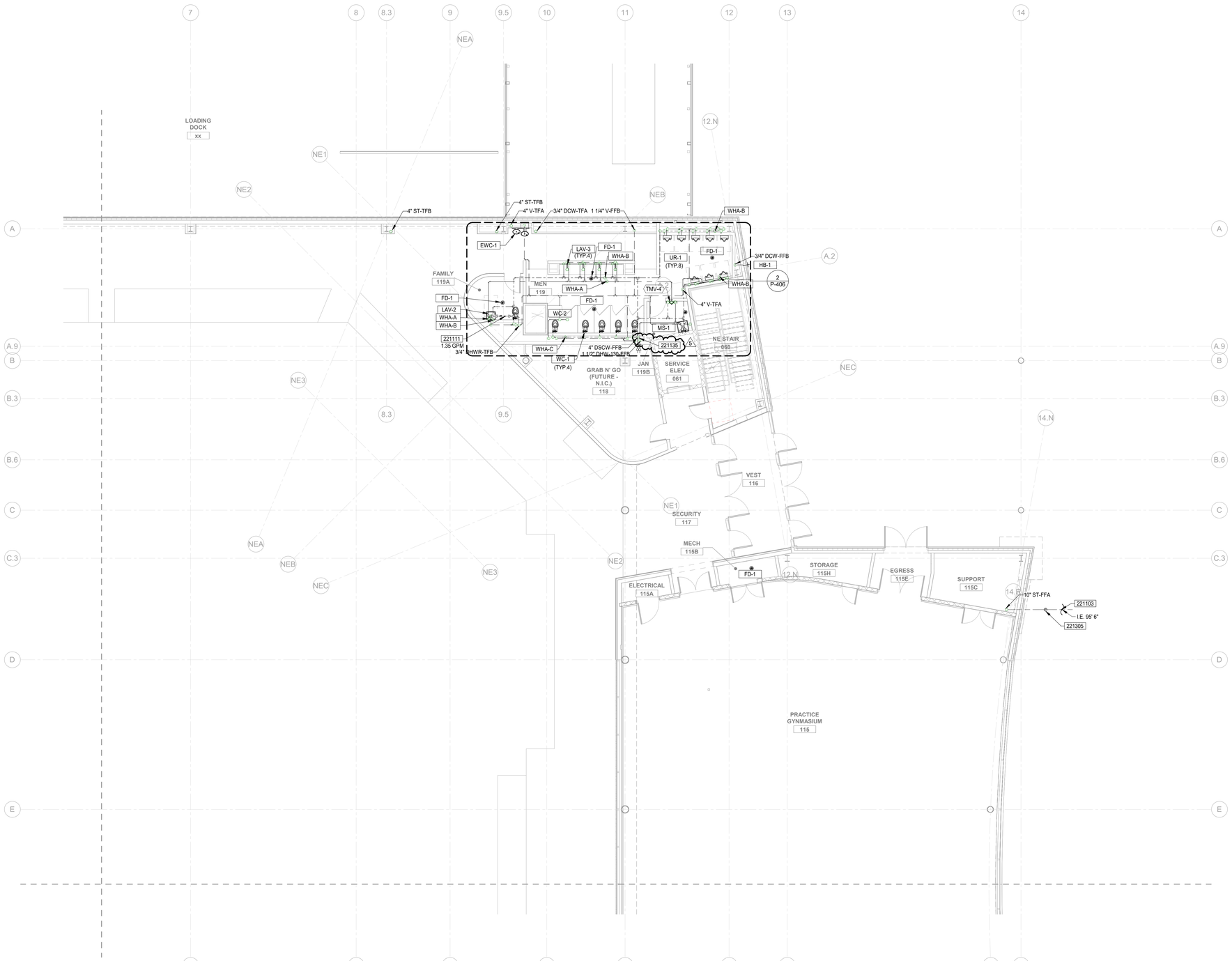
PROJECT NO. 18082.000

SHEET TITLE
MAIN CONCOURSE LEVEL - AREA A

SHEET NUMBER
P-202A

1/24/2025 2:37:40 PM



01-CONCOURSE LEVEL PLUMBING INSTALLATION - AREA B
SCALE: 1/8" = 1'-0"

NORTH

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GENERAL NOTES

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KEYNOTES

221103	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221135	PROVIDE SHUTOFFS ON DSCW AND DHW-130 RISER FROM FLOOR BELOW. SHUTOFFS TO BE ACCESSIBLE BY WALL ACCESS PANEL IN RESTROOM.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.

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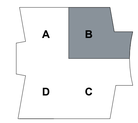
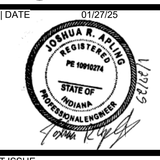


KEY PLAN

SEAL | DATE 01/27/25



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PROJECT NO. 18082.000

SHEET TITLE
MAIN CONCOURSE LEVEL - AREA B

SHEET NUMBER
P-202B

1/24/2025 2:37:44 PM



01-CONCOURSE LEVEL PLUMBING INSTALLATION - AREA C
SCALE: 1/8" = 1'-0"

NORTH

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F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
221131	PROVIDE EXPANSION LOOP IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION LOOPS PER MANUFACTURER RECOMMENDATION.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.

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Code Consultant
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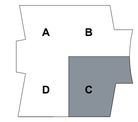

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE
MAIN CONCOURSE LEVEL - AREA C

SHEET NUMBER
P-202C

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01-CONCOURSE LEVEL PLUMBING INSTALLATION - AREA D

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

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

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D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221127	3/4" DSCW AND DHW-110 TO SERVE KITCHEN HANDSINK
221128	3/4" DSCW AND DHW-130 TO SERVE KITCHEN SINK.
221129	3/4" DCW TO SERVE KITCHEN WATER FILTRATION SYSTEM.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
221404	STORM RISER DOWN FROM ROOF DRAIN

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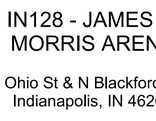

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE		
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SHEET TITLE
MAIN CONCOURSE LEVEL - AREA D

SHEET NUMBER
P-202D

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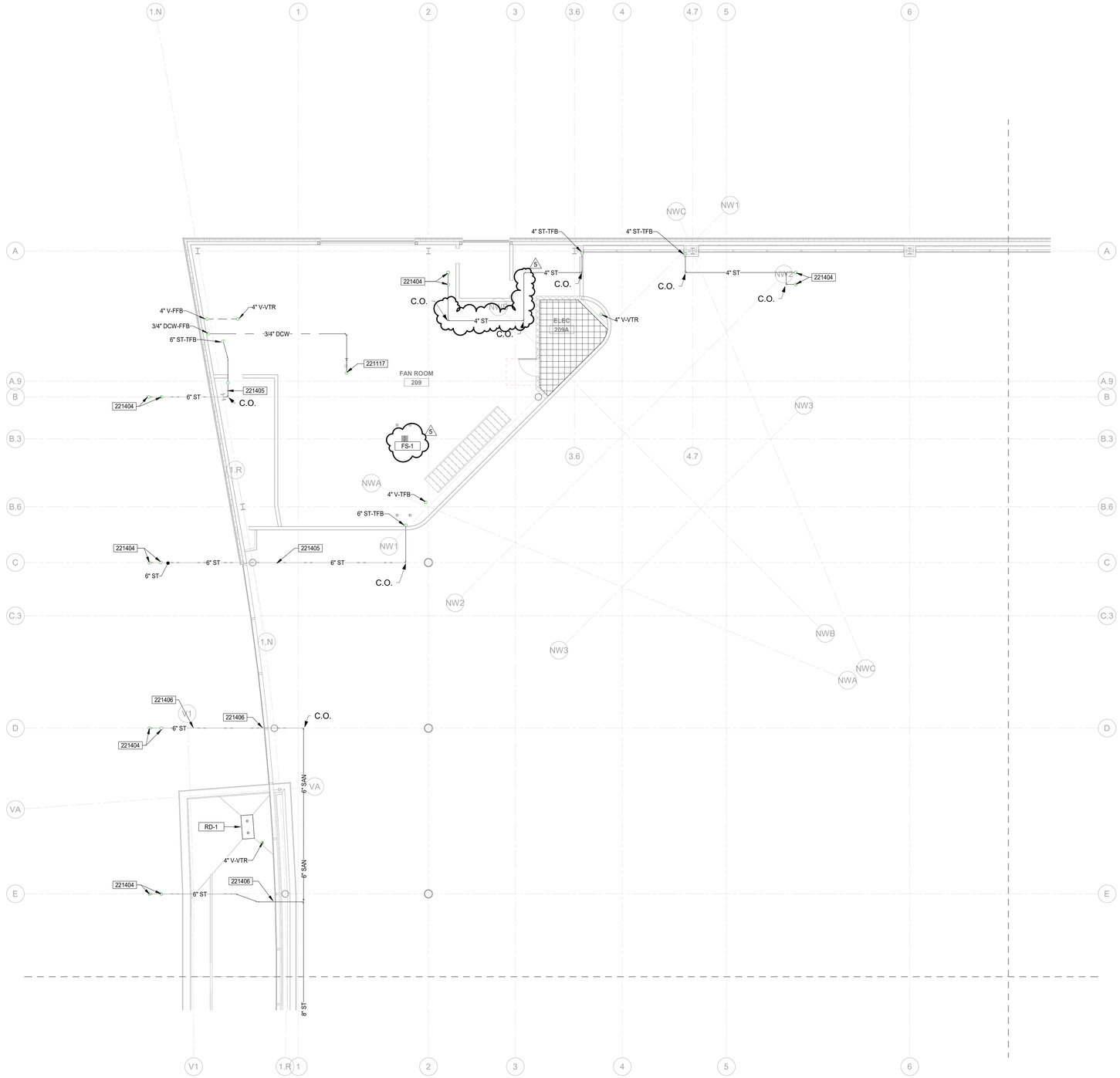

1 02-UPPER LEVEL PLUMBING INSTALLATION - AREA A
SCALE: 1/8" = 1'-0"

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

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F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221117	3/4" DCW UP TO HB-1 WALL MOUNTED SERVING ROOF.
221404	STORM RISER DOWN FROM ROOF DRAIN
221405	PROVIDE HEAT TRACE ON STORM PIPING INSTALLED INSIDE MECHANICAL OA PLENUM AND PIPING EXTERIOR OF BUILDING. THE EQUIPMENT SHALL BE RATED FOR WATT DENSITY OF 5 (W/FT) AT 120 V, 1 PHASE (MOCP = 15A). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
221406	PROVIDE HEAT TRACE ON STORM PIPING EXTERIOR OF BUILDING. THE EQUIPMENT SHALL BE RATED FOR WATT DENSITY OF 5 (W/FT) AT 120 V, 1 PHASE (MOCP = 15A). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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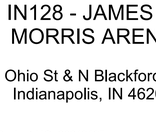

KEY PLAN

SEAL | DATE 01/27/25



SHEET ISSUE

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PROJECT NO. 18082.000

SHEET TITLE
UPPER LEVEL - AREA A

SHEET NUMBER
P-203A

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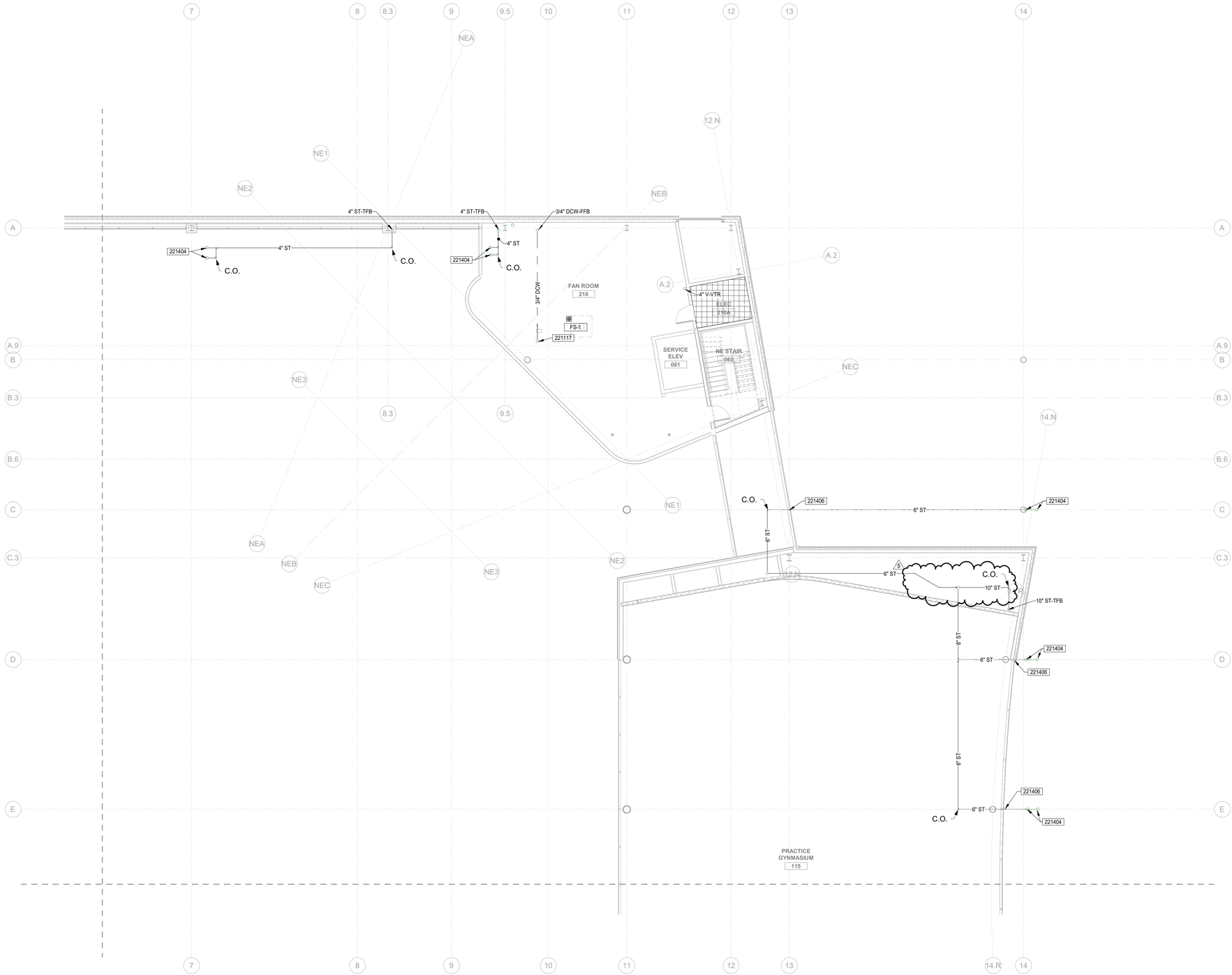

1 02-UPPER LEVEL PLUMBING INSTALLATION - AREA B
SCALE: 1/8" = 1'-0"

NORTH

NO PLUMBING BRANCHES ARE TO BE ROUTED IN REGION

1/24/2025 2:38:04 PM

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

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KEYNOTES

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221404	STORM RISER DOWN FROM ROOF DRAIN
221406	PROVIDE HEAT TRACE ON STORM PIPING EXTERIOR OF BUILDING. THE EQUIPMENT SHALL BE RATED FOR WATT DENSITY OF 5 (W/FT) AT 120 V, 1 PHASE (MOCP = 15A). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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KEY PLAN

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SHEET ISSUE

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PROJECT NO. 18082.000

SHEET TITLE
UPPER LEVEL - AREA B

SHEET NUMBER
P-203B



02-UPPER LEVEL PLUMBING INSTALLATION - AREA D

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

NORTH

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GENERAL NOTES

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KEYNOTES

221117	3/4" DCW UP TO HB-1 WALL MOUNTED SERVING ROOF.
221121	3/4" DSCW AND 3/4" DHW-110 FROM FLOOR BELOW TO S-1 IN BREAK ROOM 201-4.
221404	STORM RISER DOWN FROM ROOF DRAIN
221406	PROVIDE HEAT TRACE ON STORM PIPING EXTERIOR OF BUILDING. THE EQUIPMENT SHALL BE RATED FOR WATT DENSITY OF 5 (W/FT) AT 120 V, 1 PHASE (MOCP = 15A). REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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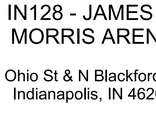

KEY PLAN

SEAL | DATE 01/27/25

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PROFESSIONAL ENGINEER
1/27/25

SHEET ISSUE

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SHEET TITLE
UPPER LEVEL - AREA D

SHEET NUMBER
P-203D

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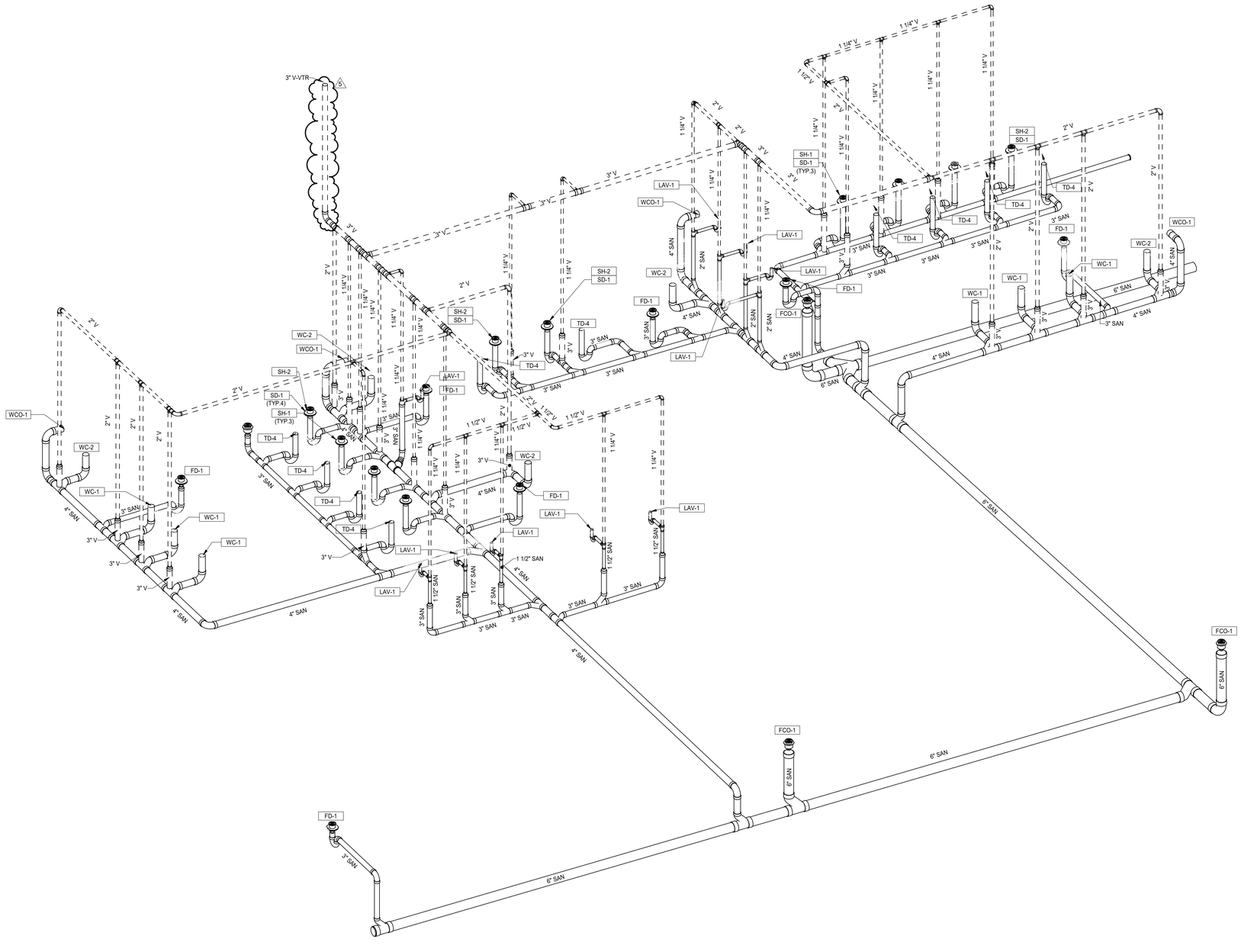

1 **SANITARY VENT RISER DIAGRAM COACHES AND MENS LOCKER ROOM**
SCALE: N.T.S.

1/24/2025 2:38:13 PM

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JOSHUA R. ARLING
REGISTERED
PE 10910274
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PROFESSIONAL ENGINEER
1/27/25

SHEET ISSUE

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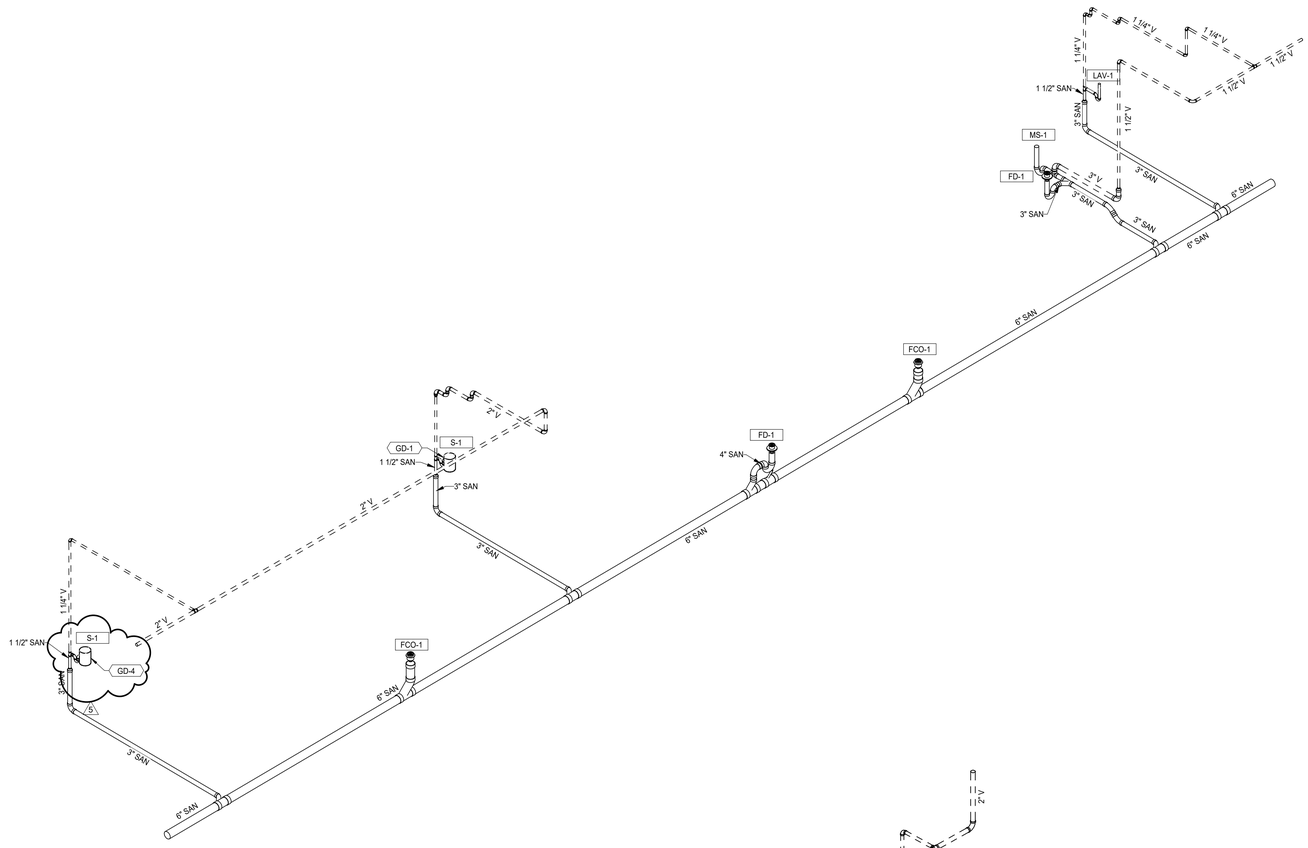
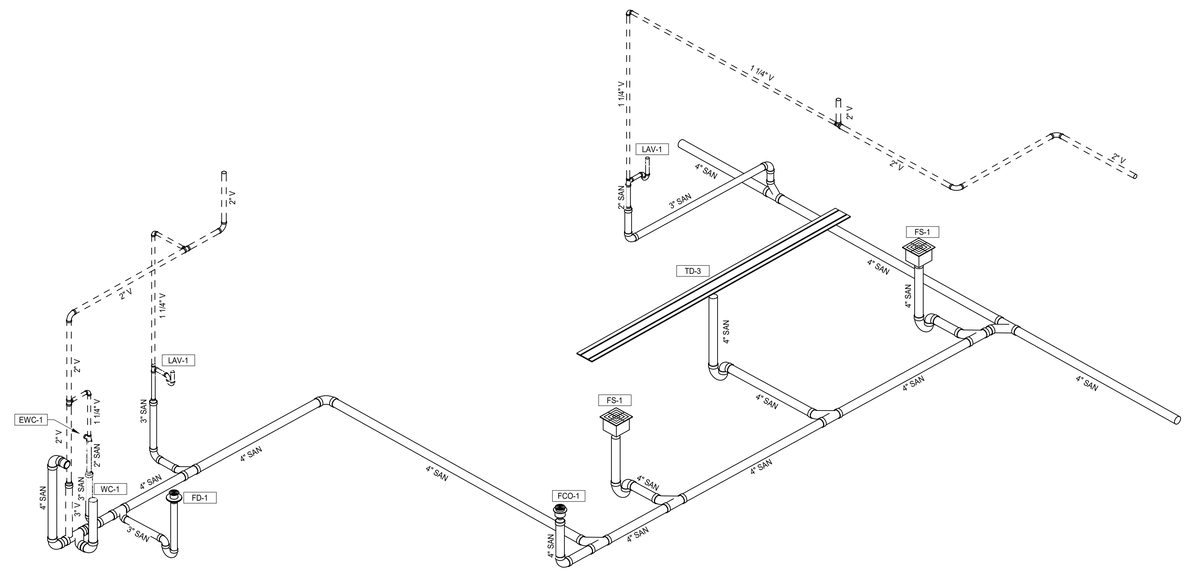
PROJECT NO. 18082.000

SHEET TITLE
SANITARY RISER DIAGRAM EVENT LEVEL II

SHEET NUMBER
P-303



2 **SANITARY VENT RISER DIAGRAM NUTRITION ZONE, STAFF BREAK, AND WELLNESS**
SCALE: N.T.S.



1 **SANITARY VENT RISER DIAGRAM TRAINING RESTROOM AND HYDROTHERAPY**
SCALE: N.T.S.

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1/27/25

SHEET ISSUE

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5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE
SANITARY RISER DIAGRAM EVENT LEVEL III

SHEET NUMBER
P-305

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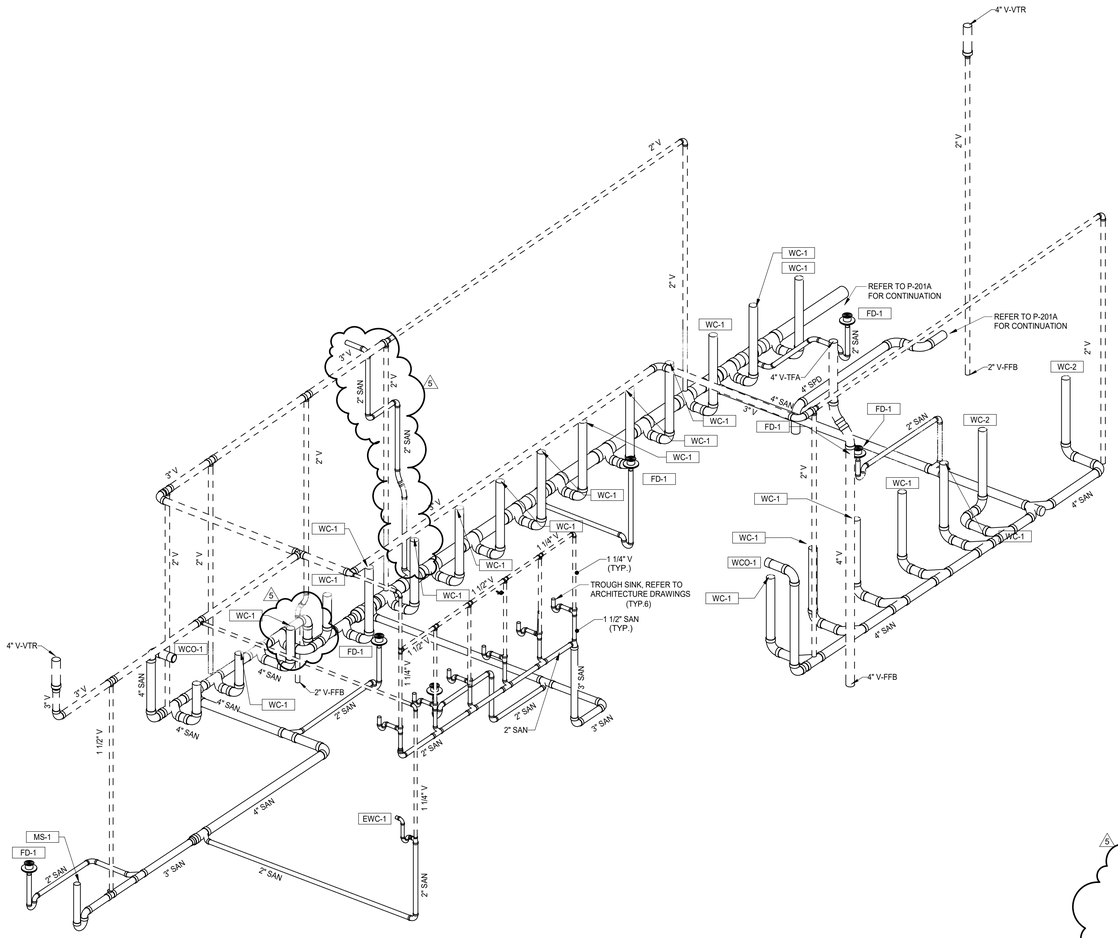
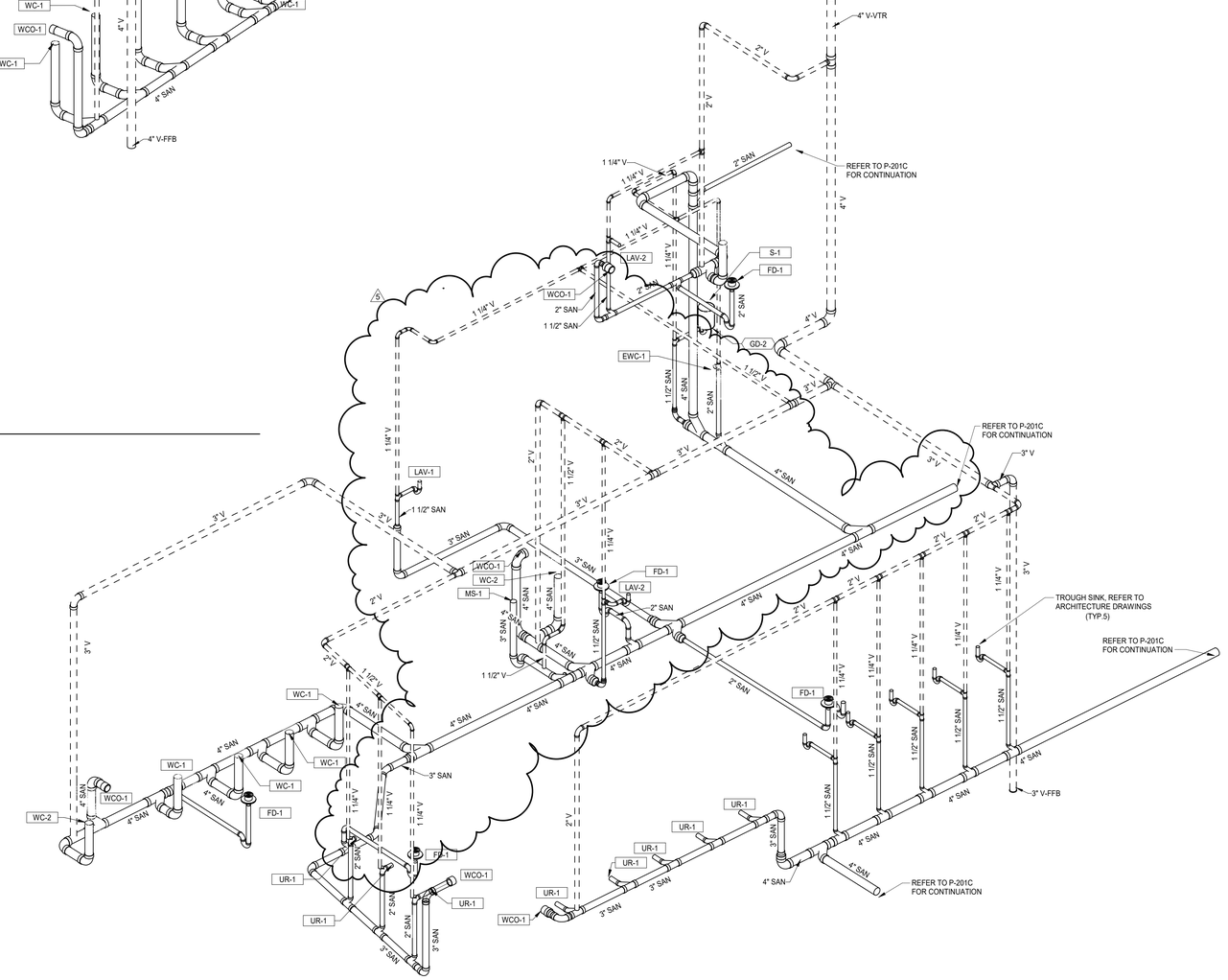


SANITARY VENT RISER DIAGRAM CONCOURSE LEVEL AREA A
2 SCALE: N.T.S.



SANITARY VENT RISER DIAGRAM CONCOURSE AND UPPER LEVEL AREA C
1 SCALE: N.T.S.

1/24/2025 2:38:20 PM

IN128 - JAMES T. MORRIS ARENA

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4	CONSTRUCTION DOCUMENTS	01/13/25
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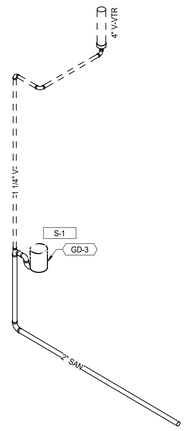
PROJECT NO. 18082.000

SHEET TITLE
SANITARY RISER DIAGRAM CONCOURSE AND UPPER LEVEL I

SHEET NUMBER
P-307



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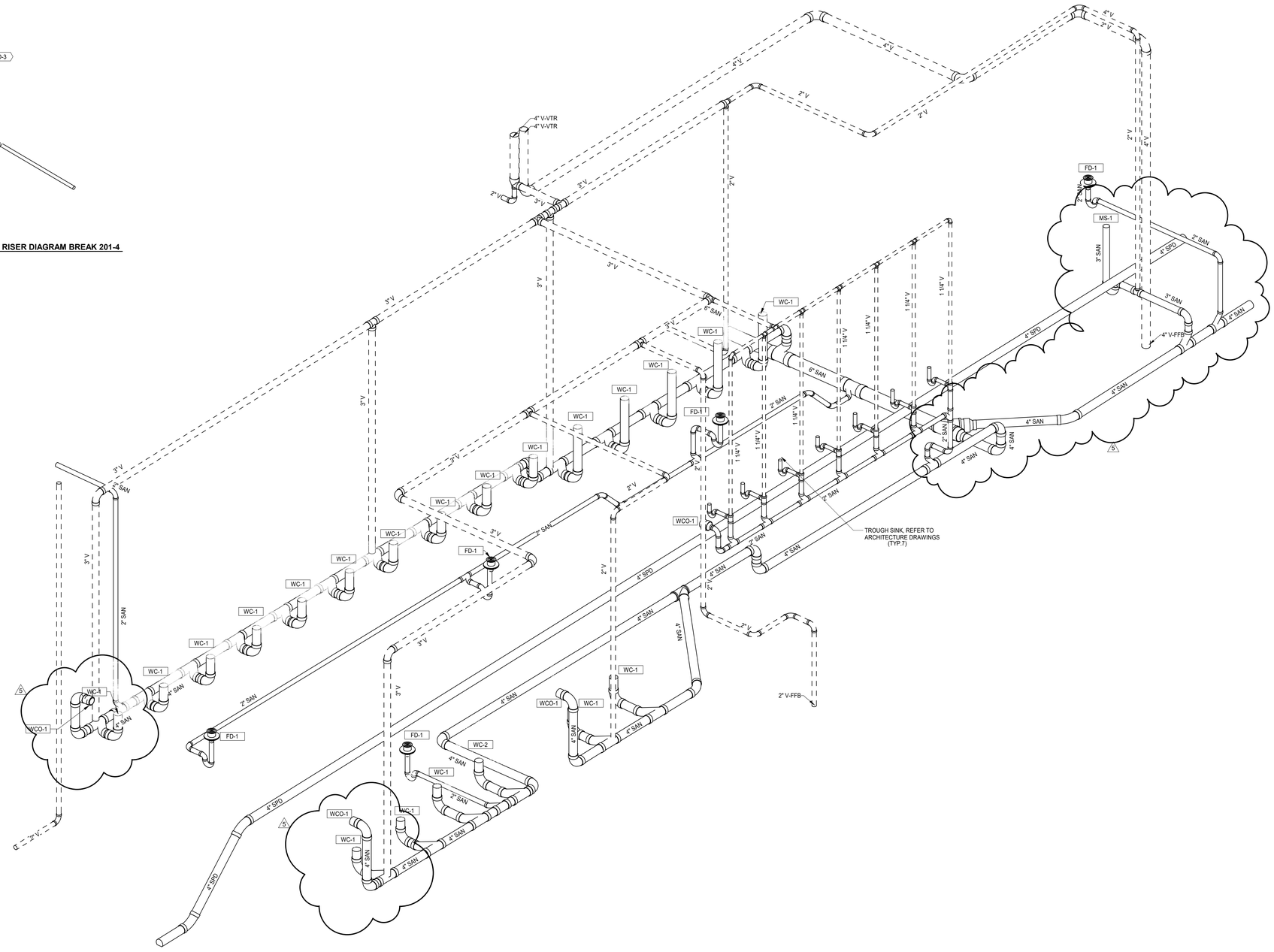
SCALE: N.T.S.



1 SANITARY VENT RISER DIAGRAM CONCOURSE LEVEL AREA D
SCALE: N.T.S.

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SHEET TITLE
SANITARY RISER DIAGRAM CONCOURSE AND UPPER LEVEL II

SHEET NUMBER
P-308

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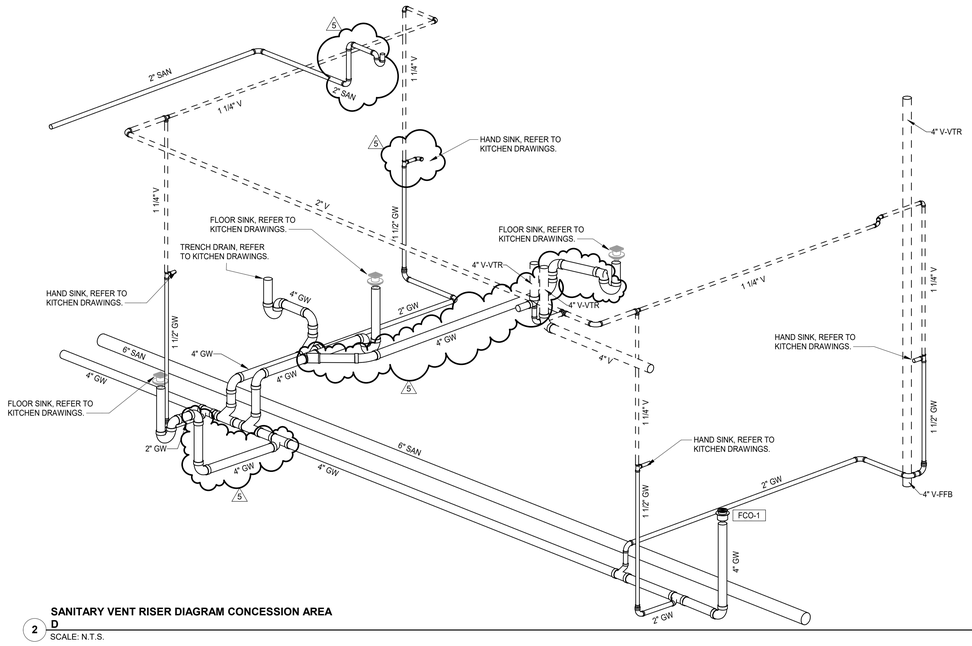
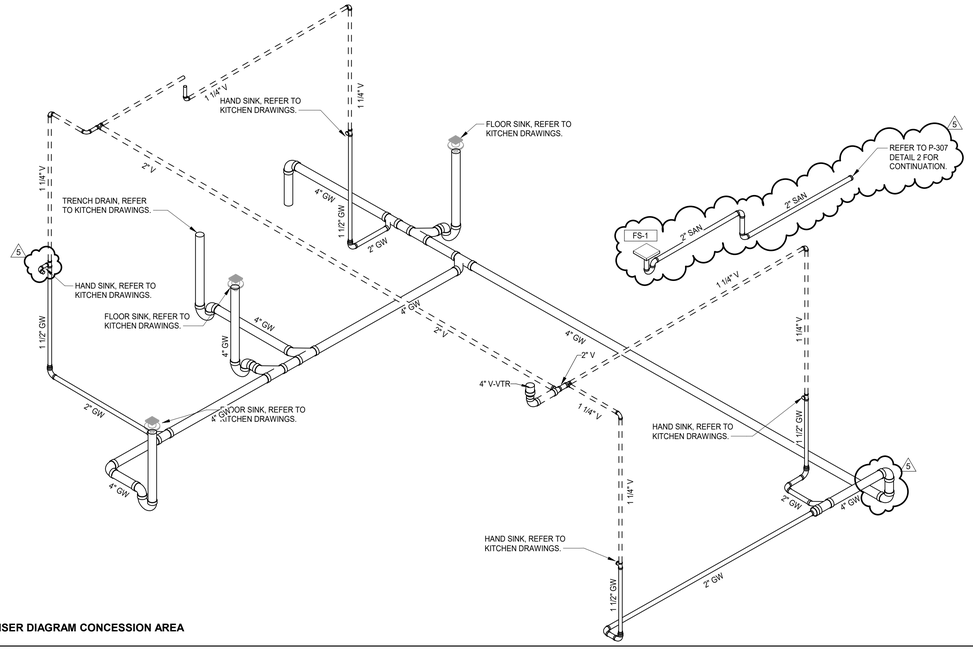


SANITARY VENT RISER DIAGRAM CONCESSION AREA D

2 SCALE: N.T.S.



SANITARY VENT RISER DIAGRAM CONCESSION AREA A

1 SCALE: N.T.S.

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1/27/25

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PROJECT NO. 18082.000

SHEET TITLE
SANITARY RISER DIAGRAM CONCOURSE LEVEL CONCESSIONS

SHEET NUMBER
P-309

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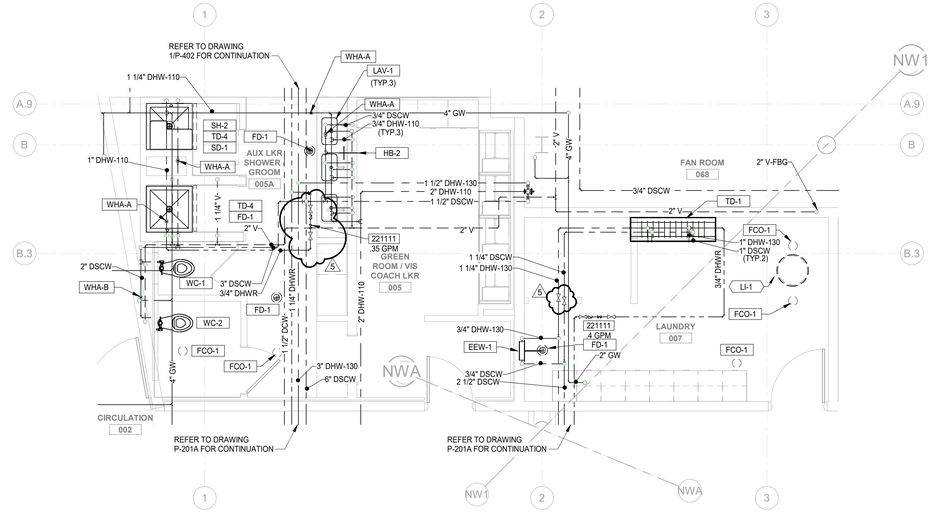
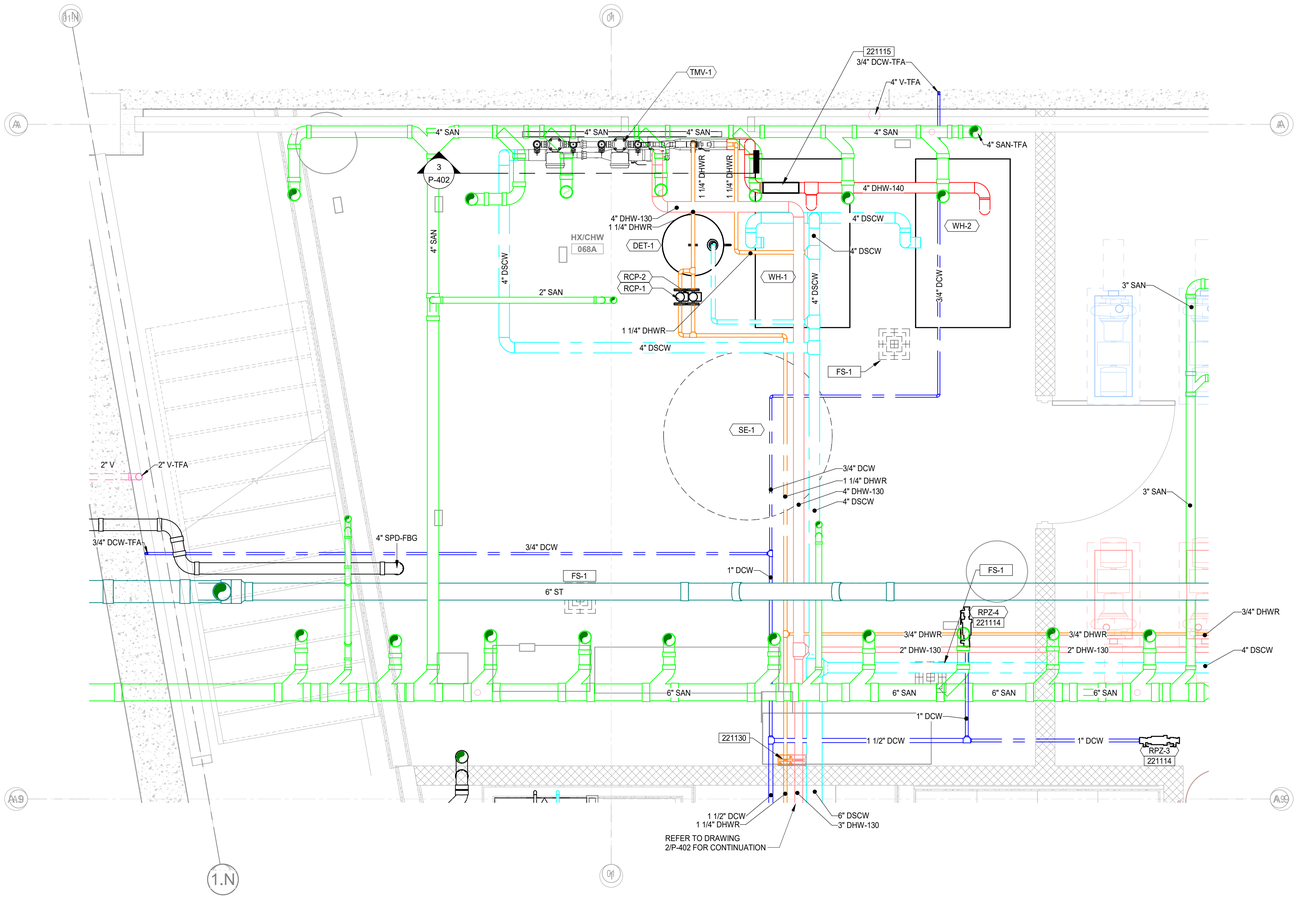


00-EVENT LEVEL PLUMBING INSTALLATION - LAUNDRY/ AUX COACH RESTROOM ENLARGED PLAN
SCALE: 1/4" = 1'-0"

NORTH

TMV SECTION VIEW
SCALE: N.T.S.



00-EVENT LEVEL PLUMBING ENLARGD PLAN - HX/CHW 209
SCALE: 1/2" = 1'-0"

NORTH

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221114	HVAC HYDRONIC SYSTEM MAKE-UP CONNECTION. REFER TO MECHANICAL DRAWINGS FOR CONTINUATION.
221115	INSTALL PERMANENT AUTOMATIC WATER METER THAT MEASURES THE TOTAL POTABLE WATER USE FOR THE BUILDING AND ASSOCIATED GROUNDS AND CAN BE MONITORED VIA BMS. METER DATA MUST BE COMPILED INTO MONTHLY AND ANNUAL SUMMARIES.
221130	PROVIDE EXPANSION ANCHOR IN HOT WATER SUPPLY AND RETURN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220500 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.

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PROJECT NO. 18082.000

SHEET TITLE
ENLARGED PLUMBING PLAN I

SHEET NUMBER
P-402

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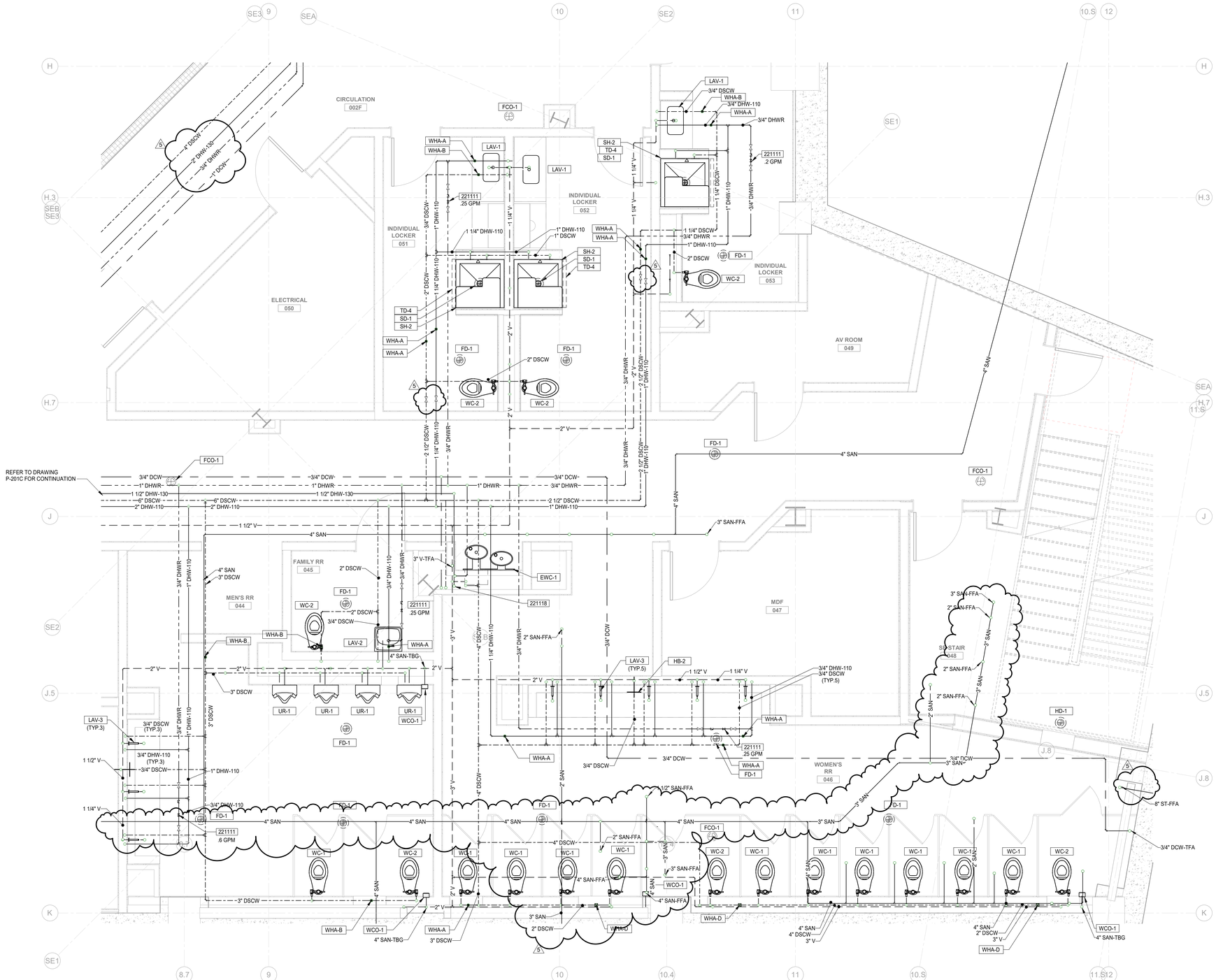

1 **00-EVENT LEVEL PLUMBING INSTALLATION - SOUTH EAST RESTROOM ENLARGED PLAN**
SCALE: 3/8" = 1'-0"

NORTH

1/24/2025 2:38:26 PM

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221118	2" V, 2" DHW-130, 4" DSCW TO FLOOR ABOVE. 3/4" DHWR FROM FLOOR ABOVE.

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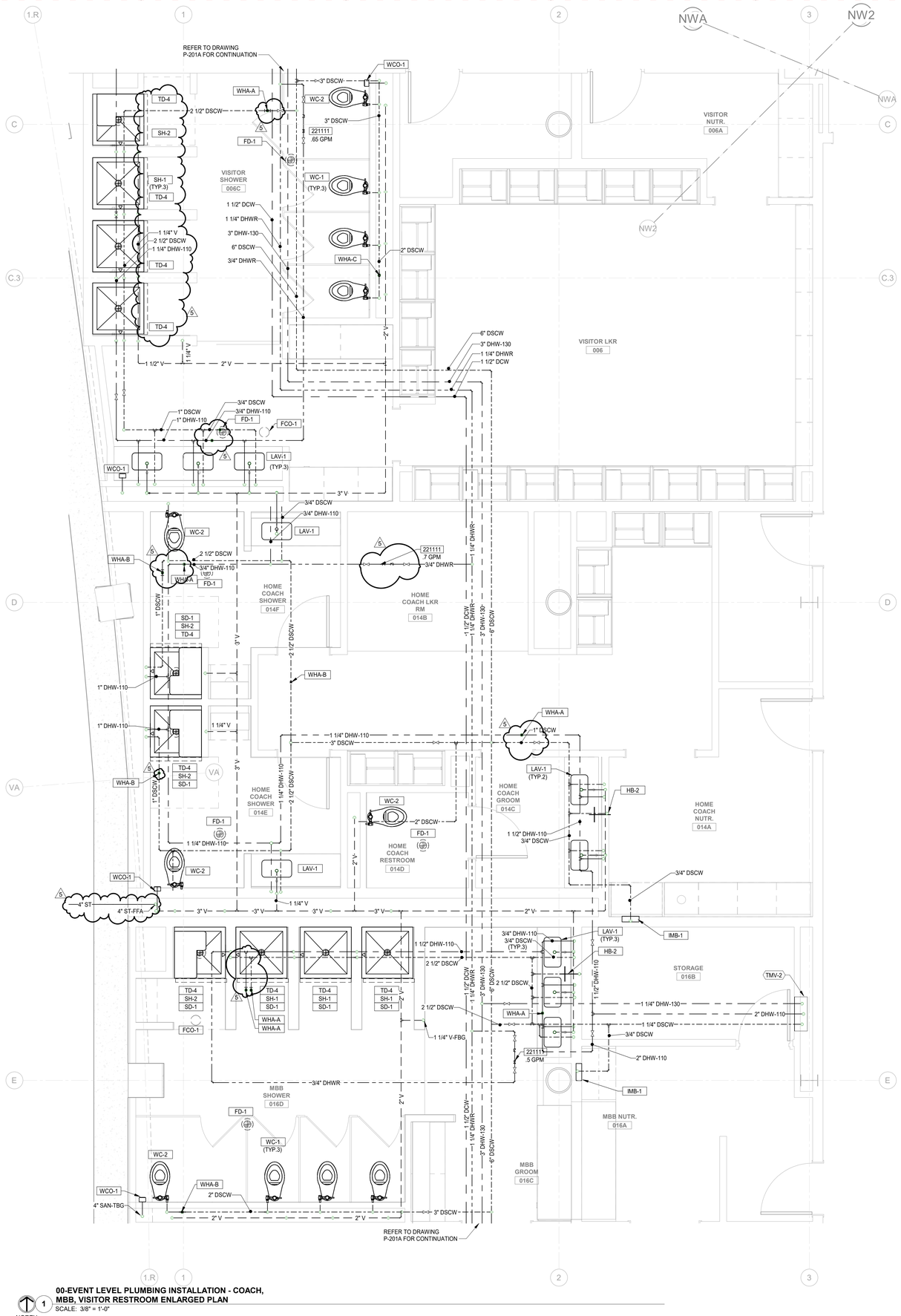
PROJECT NO. 18082.000

SHEET TITLE
ENLARGED PLUMBING PLANS II

SHEET NUMBER
P-403



00-EVENT LEVEL PLUMBING INSTALLATION - COACH, MBB, VISITOR RESTROOM ENLARGED PLAN
SCALE: 3/8" = 1'-0"

NORTH

1/24/2025 2:38:27 PM

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

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KEYNOTES

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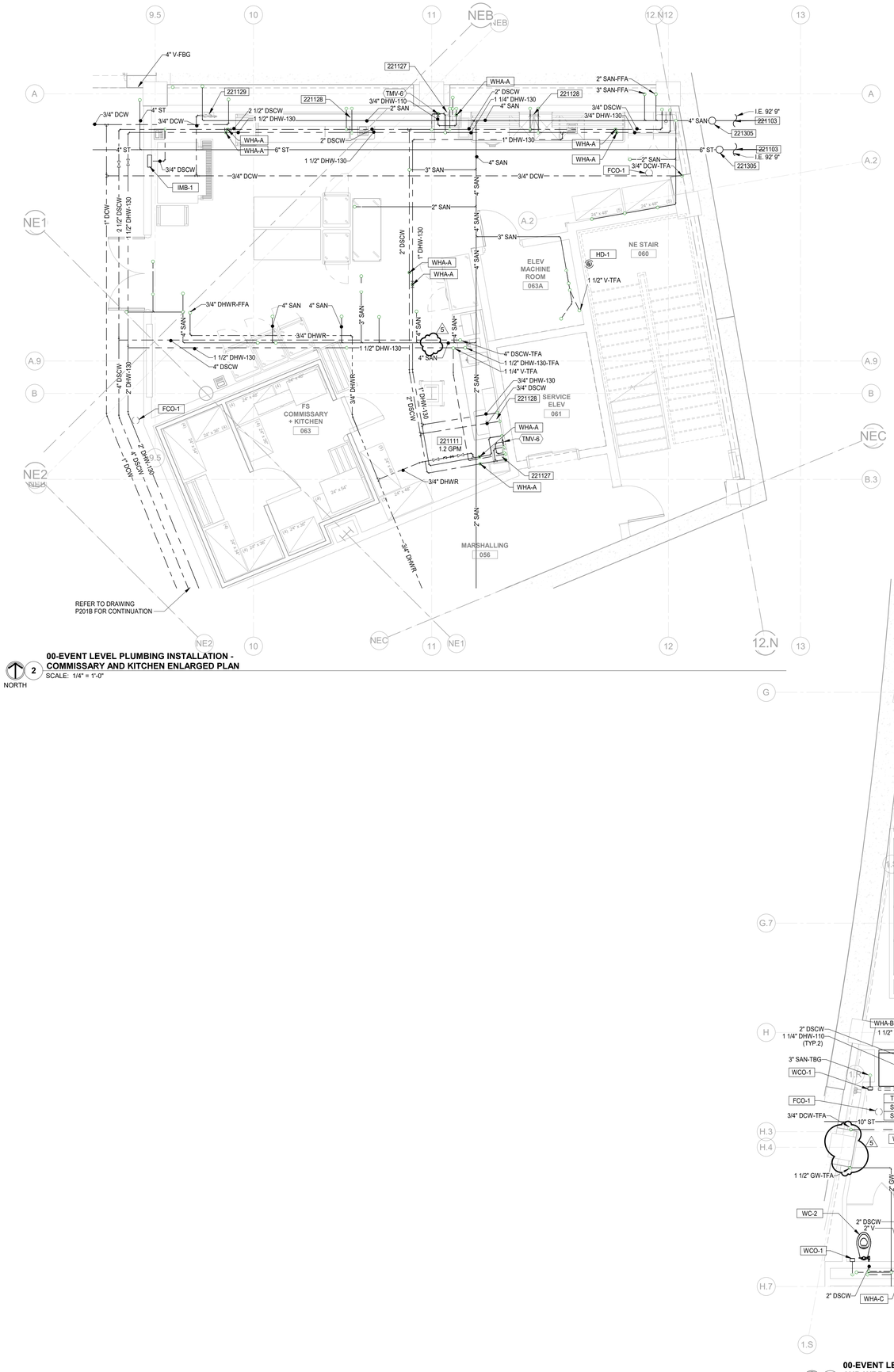
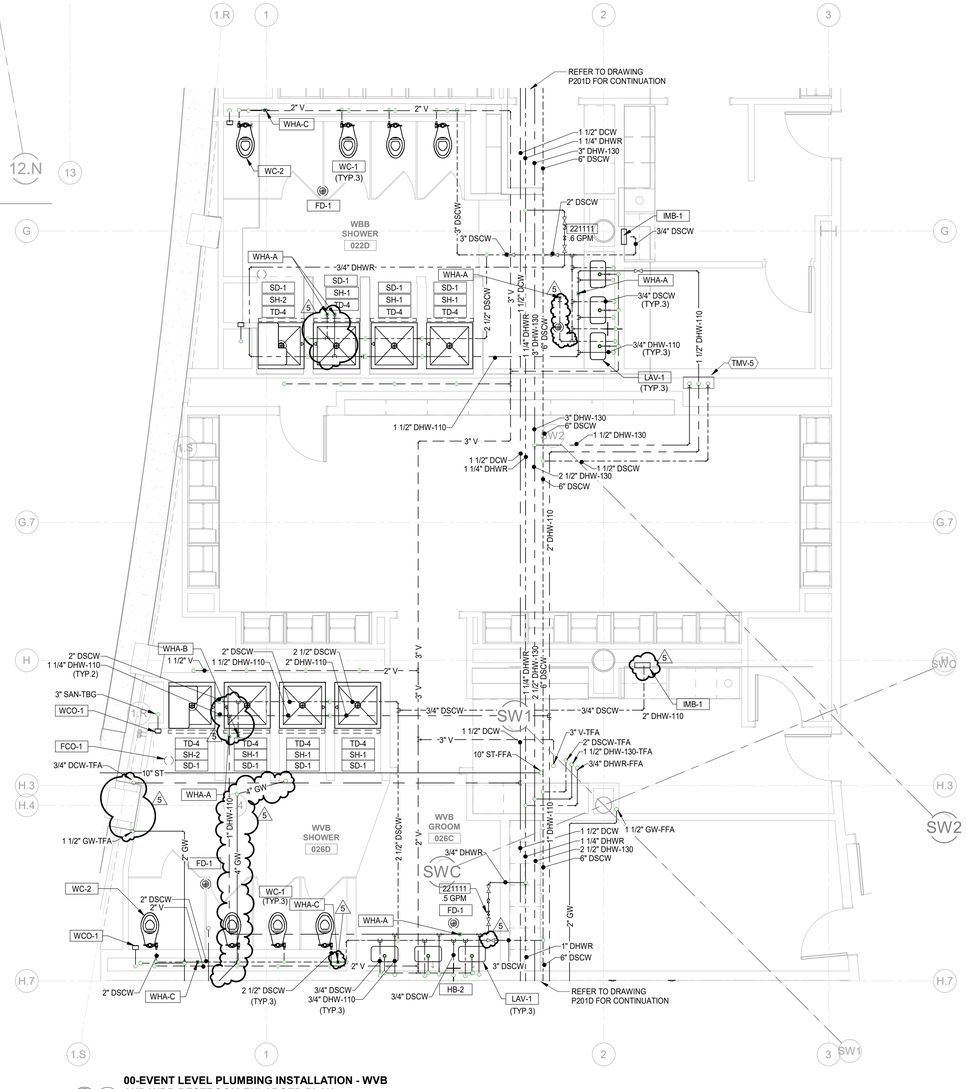
SHEET TITLE
ENLARGED PLUMBING PLANS III

SHEET NUMBER
P-404



00-EVENT LEVEL PLUMBING INSTALLATION - COMMISSARY AND KITCHEN ENLARGED PLAN
SCALE: 1/4" = 1'-0"
NORTH



00-EVENT LEVEL PLUMBING INSTALLATION - WVB AND WBB RESTROOM ENLARGED PLAN
SCALE: 1/4" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221103	REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221127	3/4" DSCW AND DHW-110 TO SERVE KITCHEN HANDSINK
221128	3/4" DSCW AND DHW-130 TO SERVE KITCHEN SINK.
221129	3/4" DCW TO SERVE KITCHEN WATER FILTRATION SYSTEM.
221305	PROVIDE TWO-WAY CLEAN-OUTS ON BUILDING SEWER AND STORM MAINS OUTSIDE THE BUILDING.

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PROFESSIONAL ENGINEER
1/27/25

SHEET ISSUE

2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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PROJECT NO. 18082.000

SHEET TITLE
ENLARGED PLUMBING PLANS IV

SHEET NUMBER
P-405

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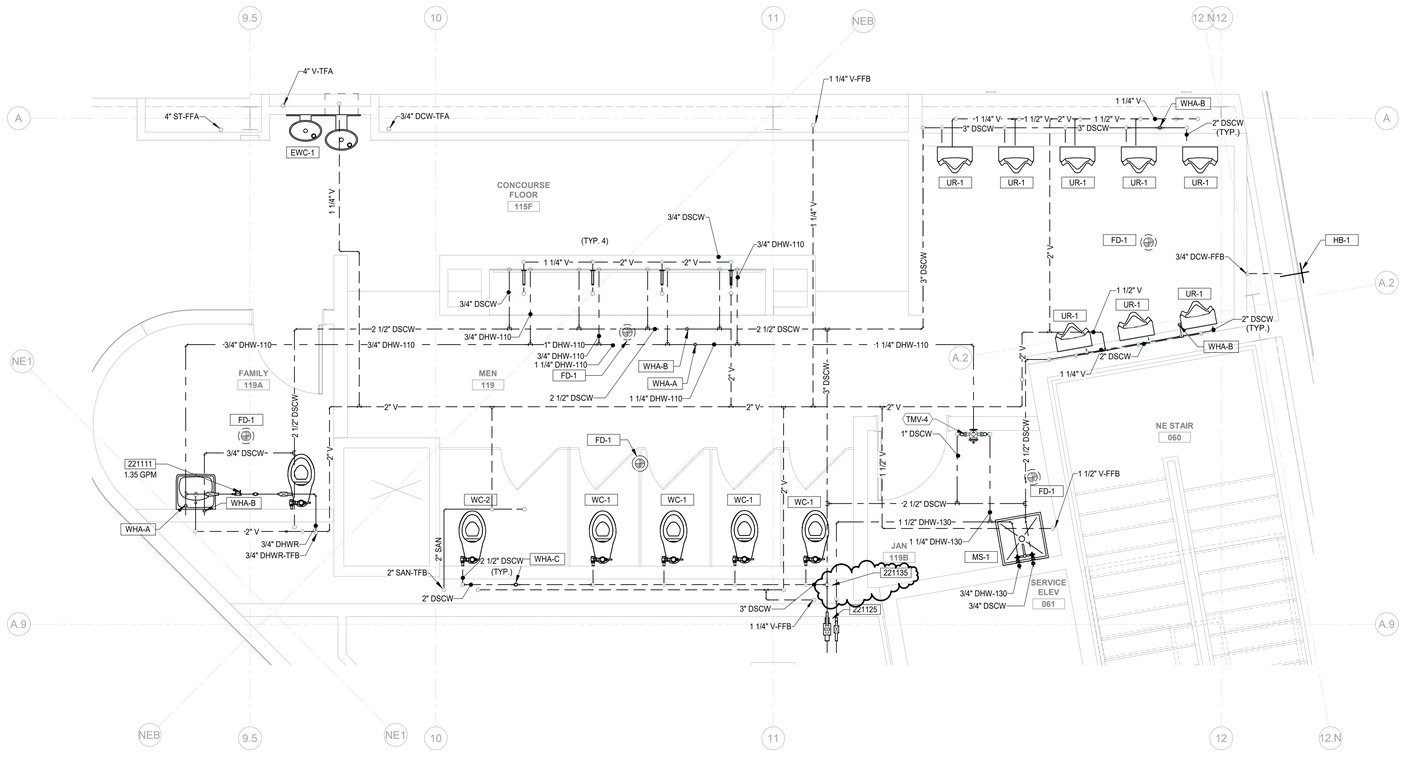
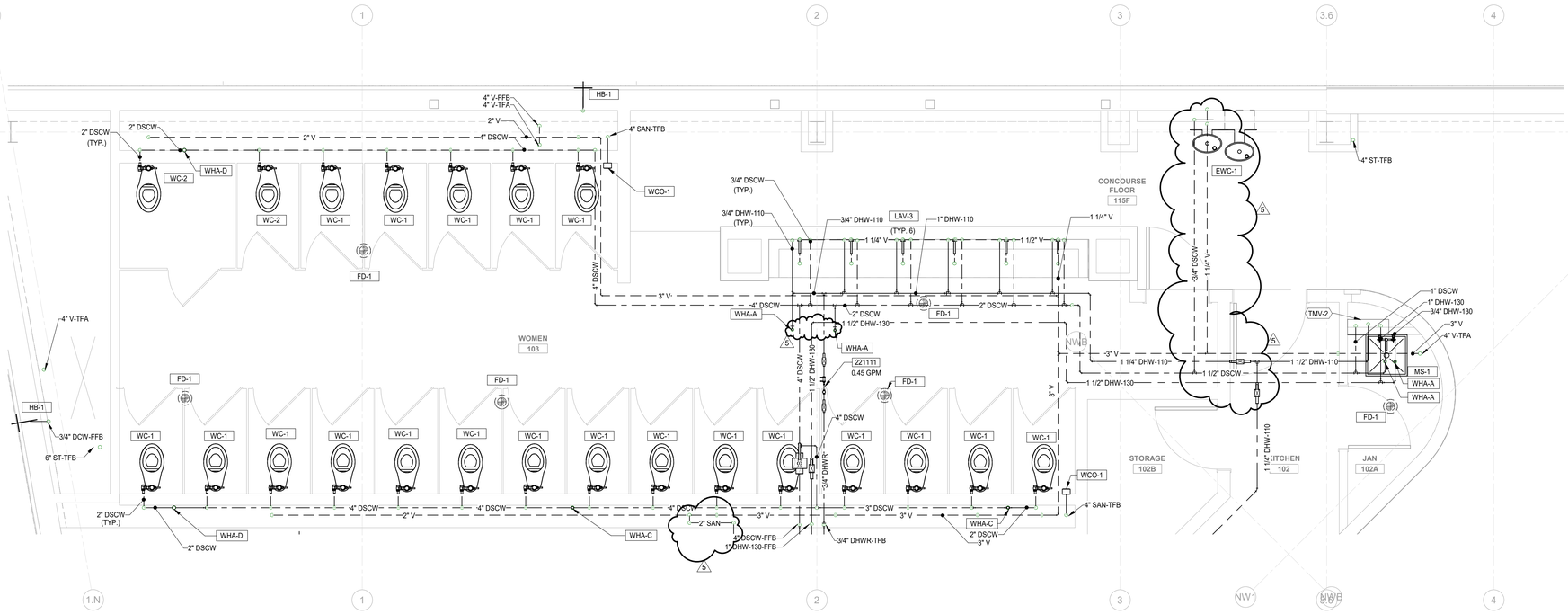


NORTH

01-CONCOURSE LEVEL PLUMBING INSTALLATION - MEN 119 RESTROOM ENLARGED PLAN
SCALE: 3/8" = 1'-0"



01-CONCOURSE LEVEL PLUMBING INSTALLATION - WOMEN 103 RESTROOM ENLARGED PLAN
SCALE: 3/8" = 1'-0"

1/24/2025 2:38:30 PM

GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO BOTTOM OF PIPE. SITE / CIVIL PLANS ESTABLISH ACTUAL FINISHED FLOOR ELEVATION.

F. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE CORDINATED WITH THE ARCHITECTURAL PLANS TO MEET A.D.A. REQUIREMENTS.

KEYNOTES

221111 PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.

221125 PROVIDE 2" DSCW, 3/4" DHW CAPPED WITH SHUTOFF VALVE.

5 221135 PROVIDE SHUTOFFS ON DSCW AND DHW-130 RISER FROM FLOOR BELOW. SHUTOFFS TO BE ACCESSIBLE BY WALL ACCESS PANEL IN RESTROOM.

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SEAL | DATE 01/27/25

JOSHUA R. APLING REGISTERED PE 10010374 STATE OF INDIANA PROFESSIONAL ENGINEER 1/27/25

SHEET ISSUE

2	50% CONSTRUCTION DOCUMENTS	11/01/24
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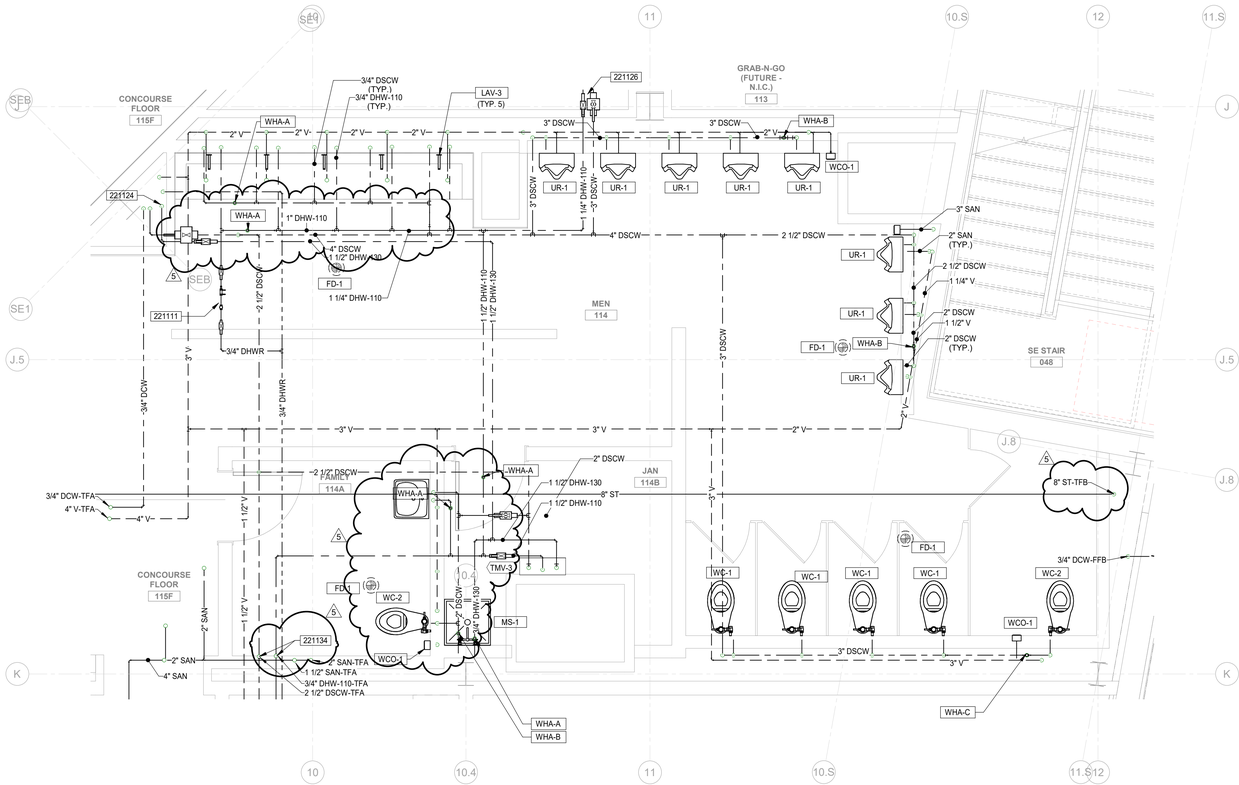
PROJECT NO. 18082.000

SHEET TITLE
ENLARGED PLUMBING PLANS V

SHEET NUMBER
P-406



01-CONCOURSE LEVEL PLUMBING INSTALLATION - MEN 114 RESTROOM ENLARGED PLAN
SCALE: 3/8" = 1'-0"

01-CONCOURSE LEVEL PLUMBING INSTALLATION - WOMEN 105 RESTROOM ENLARGED PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES

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KEYNOTES

221111	PROVIDE SHUT-OFF VALVE, CHECK VALVE, AND SHUT-OFF VALVE IN THE DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED.
221124	3" V, 1 1/2" DHW-130, 3/4" DCW, 3" DSCW FROM FLOOR BELOW. 3/4" DHWR TO FLOOR BELOW.
221126	PROVIDE 3" DSCW, 1 1/4" DHW CAPPED WITH SHUTOFF VALVE.
5 221134	PROVIDE SHUTOFFS ON DSCW AND DHW-110 RISER TO RESTROOM ABOVE. SHUTOFFS TO BE ACCESSIBLE BY WALL ACCESS PANEL IN RESTROOM.

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PROJECT NO. 18082.000

SHEET TITLE
ENLARGED PLUMBING PLANS VI

SHEET NUMBER
P-407

1/24/2025 2:38:32 PM

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	ACCEPTABLE MANUFACTURER/MODEL	SAN/WASTE	VENT	COLD WATER	HOT WATER	SCHEDULE NOTES
CB-1	CATCH BASIN	CATCH BASIN POLYESTER FIBER REINFORCED POLYMER CONCRETE. SHALL HAVE 4" CLEAR OPEN THROAT. 24" LONG WITH RECEIVING FLANGE.BODY TO HAVE LESS THAN 0.35% WATER ABSORPTION, SHALL BE FROST PROOF, SALT PROOF, AND BE RESISTANT TO DILUTE ACIDS AND ALKALIS PER ASTM C267. PROVIDE REMOVABLE 4" SEDIMENT BUCKET. GRATING SHALL BE HEAVY DUTY HEEL PROOF AND ADA COMPLIANT LONGITUDINALLY SLOTTED GRATE MADE OF GRADE 65-45-18 CAST DUCTILE IRON PER ASTM A 536-84 AND SHALL BE E-COATED BLACK AND A MINIMUM LOAD RATING OF CLASS E. SEE TD-2 FOR TRENCH DRAIN DESCRIPTION.	CATCH BASIN - DTCBPF-D20-05B24DI-HDBP-SB4-GLZN4-4OP	4"	-	-	-	
EEW-1	EMERGENCY EYEWASH	EMERGENCY EYEWASH – BARRIER FREE FLUSH MOUNTED WITH 90 DEGREE SWING ARM. 1/2" STAY OPEN EYE AND EYE/FACE WASH VALVE MANUFACTURED FROM CHROME PLATED BRASS. EYES INCLUDES INTEGRAL FLOW CONTROL. INCLUDE EMERGENCY THERMOSTATIC MIXING VALVE ACCESSORY.	EMERGENCY EYEWASH - BRADLEY MODEL S19284JB ■ TEMPERED WATER BLENDING SYSTEM - BRADLEY MODEL S19-2000 EFX8	-	-	1/2"	1/2"	SERVES LAUNDRY ROOM
EWC-1	ELECTRIC WATER COOLER	BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER. UNIT SHALL DELIVER 8 GPH OF 50-DEG F DRINKING WATER AT 90-DEG F AMBIENT AND 80 DEG-F INLET WATER. UNITS SHALL HAVE PUSHBAR ACTIVATION WITH SIDE PUSHBAR. INCLUDE 3000-GALLON CAPACITY FILTER CERTIFIED TO NSF/ANSI 42 AND 53 WITH VISUAL MONITOR TO INDICATE WHEN REPLACEMENT IS NECESSARY. INCLUDE INTEGRATED SILVER ION ANTI-MICROBIAL PROECTION IN KEY AREAS AND LEAD-FREE DESIGN. FRONT ACCESS. ELECTRICAL REQUIREMENTS: 115 V, 370 W, 5 F. L.A.	ELKAY MODEL: LZSTL8WSSK	1-1/2"	1-1/4"	1/2"	-	ADA COMPLIANT. MOUNT AT HEIGHT AS REQUIRED ON ARCHITECTURAL DRAWINGS.
FCO-1	FLOOR CLEANOUT	ADJUSTABLE LEVELING FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED LIGHT-DUTY TOP WITH ADDITIONAL LEVELING ADJUSTMENT TO FINISHED FLOOR.	ZURN MODEL: Z1400-BZ-ZB-VP	-	-	-	-	MATCH PIPE SIZE.
FD-1	FLOOR DRAIN (TRAP SEAL)	LACQUERED CAST IRON FLOOR DRAIN WITH 5" ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE. PROVIDE SECURITY SCREWS FOR USE IN SECURE AREAS.	ZURN MODEL: Z1400-BZ-ZS-VP	-	-	-	-	MATCH PIPE SIZE. PROVIDE WITH TRAP PROTECTION DEVICE SIMILAR TO SURESEAL
FS-1	FLOOR SINK	12 INCH SQUARE BY 8 INCH DEEP SANITARY FLOOR SINK CONSTRUCTED OF 16 GAGE STAINLESS STEEL. LOOSE-MOUNTED GRATE HAVING 1/2" SQUARE OPENINGS. PROVIDE SEDIMENT BUCKET. PROVIDE WITH ASSE 1072 TRAP PROTECTION DEVICE.	ZURN Z-1751 OR EQUIVALENT.	-	-	-	-	MATCH PIPE SIZE.
FS-2	FLOOR SINK	24 INCH SQUARE BY 17 INCH DEEP SANITARY FLOOR SINK CONSTRUCTED OF POWDER COATED STAINLESS STEEL. LOOSE-MOUNTED DUCTILE IRON GRATE HAVING 13/16" OPENINGS. PROVIDE SEDIMENT BUCKET. PROVIDE WITH ASSE 1072 TRAP PROTECTION DEVICE.	MIFAB MODEL: F1580	-	-	-	-	MATCH PIPE SIZE.
HB-1	WALL HYDRANT (FREEZELESS)	CONCEALED BOX TYPE, FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER WITH 3/4" MALE HOSE THREAD, LOOSE TEE KEY, CHROME PLATED EXTERIOR FINISH	WOODFORD MODEL: NO. B65	-	-	3/4"	-	MOUNT FIXTURE AT 18" AFF
HB-2	WALL HYDRANT (CONCEALED)	CONCEALED BOX ANTI-SIPHON VACUUM BREAKER WITH 3/4" MALE HOSE THREAD, STEM LOCK, CHROME PLATED EXTERIOR FINISH	■WOODFORD MODEL: NO. B24 ■STEM LOCK: SL-24	-	-	3/4"	-	MOUNT FIXTURE AT 18" AFF
HB-3	WALL HYDRANT (EXPOSED)	WALL HYDRANT EXPOSED, LEAD FREE, ANTI-SIPHON WALL HYDRANT WITH EXTERNAL VACUUM BREAKER, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, VANDAL RESISTANT OPERATING STEM, AND SECURED WHEEL-TYPE HANDLE. PROVIDE 3/4" MALE HOSE CONNECTION.	WOODFORD MODEL: NO 21	-	-	3/4"	-	MOUNT FIXTURE AT 18" AFF
HD-1	FLOOR DRAIN (TRAP SEAL)	LACQUERED CAST IRON FLOOR DRAIN WITH 6" ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE. PROVIDE HUB DRAIN ATTACHMENT FOR INDIRECT CONNECTION TO FIRE PROTECTION STANDPIPE DRAINAGE.	■ZURN MODEL: Z1400-BZ-ZS-VP ■HUB DRAIN: Z1870	-	-	-	-	MATCH PIPE SIZE.
IMB-1	ICE MACHINE BOX	1/2" INLET, 1/4" OUTLET, COMPRESSION ANGLE VALVE, HOT DIPPED GALVANIZED STEEL HOUSING.	GUY GRAY MODEL BIM875	-	-	3/4"	-	
LAV-1	LAVATORY	■BOWL - UNDERMOUNT, VITREOUS CHINA, FRONT OVERFLOW. ■ FAUCET - 0.35 GPM, HARDWIRED DECK MOUNTED INTEGRAL BASE, FILTERED SOLENOID WITH SERVICEABLE STRAINER FILTER, MIXING TEE. DURABLE CAST BRASS FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTIONS, HARDWIRED BOX TRANSFORMER, WATERSENSE CERTIFIED. ■ AERATOR SUPPLIES AND STOPS -LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D. FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP -1-1/4"x1-1/2" CAST BRASS, CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. 5	■ BOWL - SLOAN MODEL SS-3021 5 ■ FAUCET - SLOAN SF-2900 ■ SUPPLIES AND STOPS -WOLVERINE BRASS INC. MODEL ENCORE: T&S BRASS ■ TRAP -WOLVERINE BRASS INC. ; T&S BRASS ■ DRAINS - WOLVERINE BRASS INC. CATALOG NO. 56096; T&S BRASS	1-1/4"	1-1/4"	1/2"	1/2"	<varies>
LAV-2	LAVATORY	■BOWL - WALL HUNG LAVATORY, VITREOUS CHINA, CONCEALED ARM SUPPORTS. ■ FAUCET - 0.35 GPM, HARDWIRED DECK MOUNTED INTEGRAL BASE, FILTERED SOLENOID WITH SERVICEABLE STRAINER FILTER, MIXING TEE. DURABLE CAST BRASS FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTIONS, HARDWIRED BOX TRANSFORMER, WATERSENSE CERTIFIED. ■ AERATOR SUPPLIES AND STOPS -LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D. FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP -1-1/4"x1-1/2" CAST BRASS: CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON.	■ BOWL - SLOAN MODEL SS-3021 5 ■ FAUCET - CHICAGO FAUCETS - 802-ABCP 5 ■ SUPPLIES AND STOPS -WOLVERINE BRASS INC. MODEL ENCORE: T&S BRASS ■ TRAP -WOLVERINE BRASS INC. ; T&S BRASS ■ DRAINS - WOLVERINE BRASS INC. CATALOG NO. 56096; T&S BRASS 5	1-1/4"	1-1/4"	1/2"	1/2"	<varies>
LAV-3	CUSTOM TROUGH W/ FAUCETS	■TROUGH SINK – CONTINUOUS SOLID SURFACE GLACIER WHITE SINK CUSTOM LENGTH. REFER TO NUMBER OF FAUCETS MODELED IN FOR USER COUNT. PIPESKIRT TO BE ANGLED BRUSHED STIANLESS ■FAUCET - 0.35 GPM, HARDWIRED WALL MOUNTED INTEGRAL BASE, FILTERED SOLENOID WITH SERVICEABLE STRAINER FILTER, MIXING TEE, DURABLE CAST BRASS FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTIONS, HARDWIRED BOX TRANSFORMER. WATER SENSE CERTIFIED. ■ AERATOR SUPPLIES AND STOPS -LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D. FLEXIBLE STEEL RISERS, WALL ESCUTCHEON.	■TROUGH SINK - THE SPLASH LABS TSL.MON.A.CUSTOM. 5 ■ FAUCET - SLOAN SF-2900	-	-	1/2"	1/2"	5 ADA COMPLIANT. MOUNT AT HEIGHT AS REQUIRED ON ARCHITECTURAL DRAWINGS. REFER TO MODELED NUMBER OF FAUCETS TO DETERMINE USER COUNT.
MS-1	MOP SINK	BASIN - ONE PIECE MOLDED STONE 24"X24"X10" WITH INTEGRAL STAINLESS STEEL BODY DRAIN. STAINLESS STEEL CAPS ON ALL CURBS, AND WALL GUARDS. ■FAUCET-CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD	■BASIN - FIAT MODEL MSB-2424. ■ FAUCET - FIAT MODEL 830AA	3"	1-1/2"	1/2"	1/2"	
RD-1	ROOD DRAIN	15 INCH DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP, GRAVEL GUARD, AND LOW SILHOUETTE CAST IRON DOME	ZURN MODEL: Z-100-Z-W3	-	-	-	-	MATCH PIPE SIZE.
S-1	SINK	BOWL - ONE (1) 22"x19-1/2"x5-1/2" DEEP BOWL, SELF RIMMING, DROP-IN SINK. 18 GA. TYPE 304 STAINLESS STEEL, CENTER 3 HOLE FAUCET. ■ FAUCET - SOLID BRASS 2 HANDLE FAUCET FOR 3 HOLE MOUNTING. METAL LEVER HANDLES WITH 1/4 TURN STOPS. INCLUDE SWIVEL SPOUT. INCLUDE SPRAY ATTACHMENT WITH INTEGRAL ANTI-SIPHONE DEVICE. (1.5 GPM)■ SUPPLIES AND STOPS - LOOSE KEY ANGLE STOP, 3/8"IPS, CHROME PLATED INLET, 3/8" O.D. FLEXIBLE RISER, AND WALL ESCUTCHEON. PROVIDE CAST BRASS P-TRAP, SINK DRAIN, AND FITTINGS.	■BOWL - JUST MANUFACTURING SADA14519A50-J ■ FAUCET – ELKAY LK800GN08T4 ■ SUPPLIES AND STOPS – WOLVERINE BRASS INC. MODEL 50666	1-1/2"	1-1/4"	1/2"	1/2"	ADA COMPLIANT.
SD-1	FLOOR DRAIN	LACQUERED CAST IRON FLOOR DRAIN WITH 6" ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE. PROVIDE SECURITY SCREWS FOR USE IN SECURE AREAS.	ZURN MODEL: Z1400-BZ-ZS-VP	2"	1-1/4"	-	-	
SH-1	SHOWER	SHOWER SYSTEM, PISTON TYPE PRESSURE BALANCING MIXING VALVE WITH BRASS STEM, MEETING ASME A112.18.1, SINGLE BLADE LEVER HANDLE, SET ADJUSTABLE LIMIT STOP SCREW TO 110F. INTEGRAL SERVICE STOPS, SHOWER HEAD WITH ARM AND FLANGE (1.2 GPM) WATERSENSE CERTIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR ENCLOSURE. 5 5	SYMMONS # 9601-PLR-1.2-STN	2"	1-1/4"	3/4"	3/4"	
SH-2	ADA SHOWER	SHOWER/HAND SHOWER SYSTEM, PISTON TYPE PRESSURE BALANCING MIXING VALVE WITH BRASS STEM, MEETING ASME A112.18.1, SINGLE BLADE LEVER HANDLE, SET ADJUSTABLE LIMIT STOP SCREW TO 110F. INTEGRAL SERVICE STOPS, DIVERTER VALVE, SHOWER HEAD WITH ARM AND FLANGE, WITH ADA GRAB BAR FOR HAND SHOWER. ADA 1 MODE HAND SHOWER WITH NON-POSITIVE SHUTOFF (1.5 GPM) WATERSENSE CERTIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR ENCLOSURE. 5	SYMMONS # 9605-PLR-1.5-TRM	2"	1-1/4"	3/4"	3/4"	ADA COMPLIANT.
TD-1	TRENCH DRAIN (LAUNDRY)	POLYESTER FIBER REINFORCED POLYMER CONCRETE TRENCH DRAIN WITH 6 INCH CLEAR OPEN THROAT AND HAVE A ROUND BOTTOM WITH SMOOTH INTERIOR FINISH. SECTIONS SHALL BE STRAIGHT AND 96" LONG. TRENCH BODY TO HAVE LESS THAN 0.35% WATER ABSORPTION, SHALL BE FROST PROOF, SALT PROOF, AND BE RESISTANT TO DILUTE ACIDS AND ALKALIS PER ASTM C267. GRATING SHALL BE HEAVY DUTY HEEL PROOF AND ADA COMPLIANT LONGITUDINALLY SLOTTED GRATE MADE OF GRADE 65-45-18 CAST DUCTILE IRON PER ASTM A 536-84 AND SHALL BE E-COATED BLACK AND A MINIMUM LOAD RATING OF CLASS D. GRATES SHALL BE SECURELY LOCKED TO FRAME WITH VANDAL RESISTANT STAINLESS STEEL BOLT AND LOCKING TOGGLE MECHANISM. SEE LS-1 FOR LINT INTERCEPTOR DESCRIPTION. TRENCH WITH 1% SLOPE.	DURATRENCH MODEL: DTPF6-08C24DI-HDBP15ZSA-GLVR6-NSR-SB 6	6"	-	-	-	
TD-2	TRENCH DRAIN	POLYESTER FIBER REINFORCED POLYMER CONCRETE TRENCH DRAIN WITH 4 INCH CLEAR OPEN THROAT AND HAVE A ROUND BOTTOM WITH SMOOTH INTERIOR FINISH. SECTIONS SHALL BE STRAIGHT AND 48" LONG. TRENCH BODY TO HAVE LESS THAN 0.35% WATER ABSORPTION, SHALL BE FROST PROOF, SALT PROOF, AND BE RESISTANT TO DILUTE ACIDS AND ALKALIS PER ASTM C267. GRATING SHALL BE HEAVY DUTY HEEL PROOF AND ADA COMPLIANT LONGITUDINALLY SLOTTED GRATE MADE OF GRADE 65-45-18 CAST DUCTILE IRON PER ASTM A 536-84 AND SHALL BE E-COATED BLACK AND A MINIMUM LOAD RATING OF CLASS E. GRATES SHALL BE SECURELY LOCKED TO FRAME WITH VANDAL RESISTANT STAINLESS STEEL BOLT AND LOCKING TOGGLE MECHANISM. SEE CB-2 FOR CATCH BASIN DESCRIPTION	DURATRENCH MODEL - DTPF4-06B24DI-HDBP06ZSA-GLZN4-NSR	4"	-	-	-	
TD-3	TRENCH DRAIN (CRYO)	POLYESTER FIBER REINFORCED POLYMER CONCRETE TRENCH DRAIN WITH 4 INCH CLEAR OPEN THROAT AND HAVE A ROUND BOTTOM WITH SMOOTH INTERIOR FINISH. SECTIONS SHALL BE STRAIGHT AND 48" LONG. TRENCH BODY TO HAVE LESS THAN 0.35% WATER ABSORPTION, SHALL BE FROST PROOF, SALT PROOF, AND BE RESISTANT TO DILUTE ACIDS AND ALKALIS PER ASTM C267. GRATING SHALL BE HEAVY DUTY HEEL PROOF AND ADA COMPLIANT LONGITUDINALLY SLOTTED GRATE MADE OF GRADE 65-45-18 CAST DUCTILE IRON PER ASTM A 536-84 AND SHALL BE E-COATED BLACK AND A MINIMUM LOAD RATING OF CLASS E. GRATES SHALL BE SECURELY LOCKED TO FRAME WITH VANDAL RESISTANT STAINLESS STEEL BOLT AND LOCKING TOGGLE MECHANISM.	DURATRENCH MODEL - DTPF4-05M24SS-MDSS08ZSA-GLSS4-NSR-4B	4"	-	-	-	
TD-4	TRENCH DRAIN (SHOWER)	STAINLESS STEEL LINEAR SHOWER DRAIN. DRAIN SHALL INCLUDE VERTIACL ADJUSTABLE ANCHORING SUPPORT LEGS, V-SHAPED CHANNEL WITH 2" CENTER OUTLET, ADJUSTABLE SECURED LEVELING FRAME WITH BUILT-IN TILE EDGE, INTEGRAL MEMBRANE FLANGE AND SECURED, LIGHT-DUTY, SLOTTED HEEL-PROOF GRATE.	ZURN MODEL: ZS800-ZS	2"	-	-	-	
UR-1	URINAL	■BOWL - VITREOUS CHINA, WHITE, WASHOUT FLUSH ACTION, ELONGATED, WALL HUNG, 2 WALL HANGER, EXTENDED SIDE, LOW WATER CONSUMPTION (0.125 GPF), MEETS ANSI FLUSH REQUIREMENTS. 3/4" INLET, TOP SPUD. ■ FLUSH VALVE - EXPOSED, SENSOR OPERATED, HARDWIRED, MECHANICAL OVERRIDE FOR MANUAL FLUSH. ANGLE STOP WITH BACK FLOW PROTECTION AND VACUUM BREAKER. LOWER WATER CONSUMPTION (0.125 GPF) WATERSENSE CERTIFIED ■CARRIER - BOLTED TYPE URINAL FITTING, ADJUSTABLE SHORT FOOT WITH BEARING. 5	■BOWL - SLOAN MODEL SU-1009 ■FLUSH VALVE - SLOAN ECOS 186 ■CARRIER - MIFAB, SMITH, OR ZURN.	2"	1-1/4"	3/4"	-	ADA COMPLIANT. MOUNT AT HEIGHT AS REQUIRED ON ARCHITECTURAL DRAWINGS.
WC-1	WATER CLOSET	■BOWL - VITREOUS CHINA, WHITE, ELONGATED, SIPHON JET, FLOOR MOUNT, FLOOROUTLET, 1-1/2" TOP SPUD (1.28 GPF). ■ FLUSH VALVE - EXPOSED, SENSOR OPERATED, HARDWIRED, MECHANICAL OVERRIDE FOR MANUAL FLUSH, DIAPHRAGM TYPE, CHROME PLATED, 1-1/2", ASSE 1037 COMPLIANT.(1.28 GPF) WATERSENSE CERTIFIED ■SEAT - ELONGATED FRONT WHITE OPEN TOILET SEAT WITH STAINLESS STEEL RING POSTS. 5	■ BOWL - SLOAN MODEL: ST-2009 ■FLUSH VALVE - SLOAN ECOS 115-1.28 ■ SEAT - SLOAN, BEMIS, OR EQUIVALENT	4"	2"	1"	-	
WC-2	WATER CLOSET	■BOWL - VITREOUS CHINA, WHITE, ELONGATED, SIPHON JET, FLOOR MOUNT, FLOOR OUTLET, 1-1/2" TOP SPUD (1.28 GPF). ■ FLUSH VALVE - EXPOSED, SENSOR OPERATED, HARDWIRED, MECHANICAL OVERRIDE FOR MANUAL FLUSH, DIAPHRAGM TYPE, CHROME PLATED, 1-1/2", ASSE 1037 COMPLIANT. (1.28 GPF) WATERSENSE CERTIFIED ■SEAT - ELONGATED FRONT WHITE OPEN TOILET SEAT WITH STAINLESS STEEL RING POSTS. 5	■ BOWL - SLOAN MODEL: ST-2029 ■FLUSH VALVE - SLOAN ECOS 115-1.28 ■ SEAT - SLOAN, BEMIS, OR EQUIVALENT	4"	2"	1"	-	ADA COMPLIANT.
WCO-1	WALL CLEANOUT	DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW. PROVIDE VANDAL-PROOF SECURED TOP.	ZURN MODEL: Z1441-Z-VP	-	-	-	-	MATCH PIPE SIZE.

WATER HAMMER ARRESTOR SCHEDULE

TYPE	FIXTURE UNIT RATING	I.P.S.	NOTES
WHA-A	1-11	3/4"	<varies>
WHA-B	12-32	1"	BODY AND BELLOWS TO BE STAINLESS STEEL
WHA-C	33-60	1"	BODY AND BELLOWS TO BE STAINLESS STEEL
WHA-D	61-113	1"	BODY AND BELLOWS TO BE STAINLESS STEEL

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SHEET ISSUE

1	DESIGN DEVELOPMENT	08/30/24
2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

RATIO

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PROJECT NO. 18082.000

SHEET TITLE
PLUMBING FIXTURE

SHEET NUMBER
P-601

PLUMBING EQUIPMENT SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	MOTOR DATA		ELECTRICAL DATA		SYSTEM HEAD (FT)	FLOW RATE (GPM)	NOTES
			HP	RPM	VOLTAGE	PHASE			
DET-1	EXPANSION TANK: ASME RATED, DIAPHRAGM TYPE STEEL TANK CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION E OF THE CURRENT ASME BOILER AND PRESSURE VESSEL CODE. PRE-CHARGED VESSEL. PROVIDE PRESSURE RELIEF VALVE. 26.39 GAL ON TANK VOLUME. RECOMMEND ACCEPTANCE 2.98 GALLON, ACTUAL TANK VOLUME 45 GALLON, ACTUAL ACCEPTANCE 24 GALLON, HORIZONTAL ORIENTATION, 16" DIA. X 45" LENGTH.	BELL & GOSSETT PTA-80V	-	-	-	-	-	-	-
DWBP-1	DOMESTIC WATER BOOSTER PUMP: FOUR (4) NSF CERTIFIED END SUCTION PUMPS. PUMP CONSTRUCTION IS FORMED 304 STAINLESS STEEL WITH MECHANICAL SEAL. INCLUDE SUCTION AND DISCHARGE SIDE ISOLATING BUTTERFLY VALVES, CHECK VALVES AND FLANGED END SUCTION AND DISCHARGE HEADERS. INCLUDE CONTROL PANEL WITH NON-FUSED DISCONNECT, PLC OPERATION, SEQUENCING, DATA AND FALUT LOGS, ALARM HORN, VARIABLE FREQUENCY DRIVE, PROVIDED 45 PSI PRESSURE INCREASE. N+1 REDUNDANCY. PUMP TO BE PROVIDED WITH CONTACTS FOR PUMP RUN TIME AND GENERAL ALARMS TO BE HARDWAIRED TO BMS.	BELL AND GOSSET: 33SV22GH4F60	4@7.5	3600	460	3	104	4@150	DISCHARGE SET TO 88 PSI.
GD-1	GARBAGE DISPOSAL PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, 3/-1/4" OVERALL HEIGHT, ANTI-VIBRATION MOUNT, MANUAL RESET OVERLOAD, 1-1/2" ANTI-VIBRATION HOSE CLAMP, WALL SWITCH, AND POWER CORD ATTACHMENT.	IN-SINK-ERATOR: MODEL EVOLUTION COMPACT	0.75	-	120	1	-	-	COORDINATE WALL SWITCH LOCATION ABOVE COUNTERTOP. REFER TO ARCHITECTURAL DRAWINGS.
GD-2	GARBAGE DISPOSAL PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, 12-1/4" OVERALL HEIGHT, ANTI-VIBRATION MOUNT, MANUAL RESET OVERLOAD, 1-1/2" ANTI-VIBRATION HOSE CLAMP, WALL SWITCH, AND POWER CORD ATTACHMENT.	IN-SINK-ERATOR: MODEL EVOLUTION COMPACT	0.75	-	120	1	-	-	COORDINATE WALL SWITCH LOCATION ABOVE COUNTERTOP. REFER TO ARCHITECTURAL DRAWINGS.
GD-3	GARBAGE DISPOSAL PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, 12-1/4" OVERALL HEIGHT, ANTI-VIBRATION MOUNT, MANUAL RESET OVERLOAD, 1-1/2" ANTI-VIBRATION HOSE CLAMP, WALL SWITCH, AND POWER CORD ATTACHMENT.	IN-SINK-ERATOR: MODEL EVOLUTION COMPACT	0.75	-	120	1	-	-	COORDINATE WALL SWITCH LOCATION ABOVE COUNTERTOP. REFER TO ARCHITECTURAL DRAWINGS.
GD-4	GARBAGE DISPOSAL PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, 12-1/4" OVERALL HEIGHT, ANTI-VIBRATION MOUNT, MANUAL RESET OVERLOAD, 1-1/2" ANTI-VIBRATION HOSE CLAMP, WALL SWITCH, AND POWER CORD ATTACHMENT.	IN-SINK-ERATOR: MODEL EVOLUTION COMPACT	0.75	-	120	1	-	-	COORDINATE WALL SWITCH LOCATION ABOVE COUNTERTOP. REFER TO ARCHITECTURAL DRAWINGS.
GS-1	GREASE INTERCEPTOR CONSTRUCTED USING A SEAMLESS MOLDED POLYETHYLENE. FLOW CONTROL CARTRIDGE SHALL BE PVC. INTERCEPTOR SHALL BE FURNISHED FOR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH ADJUSTABLE COVER ADAPTERS, BUILT-IN FLOW CONTROL. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY. 4" INLET/OUTLET, 100 GPM FLOW RATE, 3048 LBS GREASE CAPACITY, 128 GAL SOLID CAPACITY, AND 510 GAL LIQUID CAPACITY. PROVIDE AND INSTALL ANCHOR KIT. PROVIDE H20 RATED COVER.	SCHIER PRODUCTS GB-1000	-	-	-	-	-	-	-
GS-2	GREASE INTERCEPTOR CONSTRUCTED USING A SEAMLESS MOLDED POLYETHYLENE. FLOW CONTROL CARTRIDGE SHALL BE PVC. INTERCEPTOR SHALL BE FURNISHED FOR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH ADJUSTABLE COVER ADAPTERS, BUILT-IN FLOW CONTROL. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY. 4" INLET/OUTLET, 100 GPM FLOW RATE, 3048 LBS GREASE CAPACITY, 128 GAL SOLID CAPACITY, AND 510 GAL LIQUID CAPACITY. PROVIDE AND INSTALL ANCHOR KIT. PROVIDE H20 RATED COVER.	SCHIER PRODUCTS GB-1000	-	-	-	-	-	-	-
GS-3	GREASE INTERCEPTOR CONSTRUCTED USING A SEAMLESS MOLDED POLYETHYLENE. FLOW CONTROL CARTRIDGE SHALL BE PVC. INTERCEPTOR SHALL BE FURNISHED FOR BELOW GRADE INSTALLATION. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH ADJUSTABLE COVER ADAPTERS, BUILT-IN FLOW CONTROL. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY. 4" INLET/OUTLET, 100 GPM FLOW RATE, 3048 LBS GREASE CAPACITY, 128 GAL SOLID CAPACITY, AND 510 GAL LIQUID CAPACITY. PROVIDE AND INSTALL ANCHOR KIT. PROVIDE H20 RATED COVER.	SCHIER PRODUCTS GB-1000	-	-	-	-	-	-	-
HT-1	HYDROPNEUMATIC TANK: LIKE RATE. BLADDER TYPE STEEL TANK CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION E OF THE CURRENT ASME BOILER AND PRESSURE VESSEL CODE. PRE-CHARGED VESSEL. PROVIDE PRESSURE RELIEF VALVE. 53 GALLON TANK VOLUME. VERTICAL ORIENTATION, 24" DIA. X 43" LENGTH.	WESSELS MODEL: FXA-200	-	-	-	-	-	-	-
IBP-1	IRRIGATION BOOSTER PUMP: ONE (1) NSF CERTIFIED INLINE PUMP. PUMP CONSTRUCTION IS FORMED 304 STAINLESS STEEL WITH MECHANICAL SEAL. INCLUDE SUCTION AND DISCHARGE SIDE ISOLATING BUTTERFLY VALVES, CHECK VALVES AND FLANGED END SUCTION AND DISCHARGE HEADERS. INCLUDE CONTROL PANEL WITH NON-FUSED DISCONNECT, PLC OPERATION, SEQUENCING, DATA AND FALUT LOGS, ALARM HORN, VARIABLE FREQUENCY DRIVE, PROVIDED 40 PSI PRESSURE INCREASE.	BELL AND GOSSET: 10SVX4G1AXX0	4	3600	460	3	92	50	CONTRACTOR TO COORDINATE WITH IRRIGATION EQUIPMENT PROVIDED TO INTERFACE BOOSTER PUMP TO IRRIGATION CONTROLS INTERFACE. PUMP TO BE PROVIDED WITH VFD AND CONTROLLED TO A PRESSURE DETERMINED BY THE IRRIGATION SYSTEM CONTROLS.
LI-1	SOLIDS INTERCEPTOR TANK MATERIAL SHALL BE POLYETHYLENE, SHALL HAVE REMOVABLE, CORROSION-RESISTANT FILTER BASKET, SHALL BE EQUIPPED WITH HIGH OUTLET OPTION AND WITH A GAS TRAP. INTERCEPTOR SHALL BE FOR BELOW GRADE INSTALLATION. COVER SHALL BE WATER AND GAS TIGHT WITH A MINIMUM 2,000 LBS. LOAD CAPACITY. PROVIDE 24" RISER OPTION.	STRIEM MODEL: AA-4	-	-	-	-	-	-	-
RCP-1	HOT WATER RECIRCULATION PUMP: HIGH EFFICIENCY ELECTRONICALLY COMMUTATED PERMANENT MAGNET MOTOR (ECM/PM), LEAD-FREE STAINLESS-STEEL BODY DESIGNED FOR POTABLE WATER PLUMBING SYSTEMS CERTIFIED NSF 372. STAINLESS STEEL IMPELLER AND SHAFT, PERMANENT MAGNET ROTOR, CARBON SLEEVE BEARING, EPDM GASKET/O-RING, ALL OTHER WETTED PARTS STAINLESS STEEL.	BELL & GOSSETT ECOCIRC MODEL: XL 36-45	1/6	2639	120	1	13	15	-
RCP-2	HOT WATER RECIRCULATION PUMP: HIGH EFFICIENCY ELECTRONICALLY COMMUTATED PERMANENT MAGNET MOTOR (ECM/PM), LEAD-FREE STAINLESS-STEEL BODY DESIGNED FOR POTABLE WATER PLUMBING SYSTEMS CERTIFIED NSF 372. STAINLESS STEEL IMPELLER AND SHAFT, PERMANENT MAGNET ROTOR, CARBON SLEEVE BEARING, EPDM GASKET/O-RING, ALL OTHER WETTED PARTS STAINLESS STEEL.	BELL & GOSSETT ECOCIRC MODEL: XL 36-45	1/6	2639	120	1	13	15	-
SE-1	GRINDER PUMP SYSTEM CONSITING OF DUAL WEIL MODEL 2519, N+1 REDUNDANCY. TO BE PROVIDED WITH 4" NPT DISCHARGE. UPPER AND LOWER SILICON CARBIDE SHAFT SEAL CONSTRUCTION. DURABLE EPOXY COATED CAST IRON DUPLEX PUMP CONTROL PANEL MODEL 8162, TYPE 4 STEEL DDDF ENCLOSURE 460V 3 PHASE. PRECASTE BASIN MODEL GB60X072-200, 60" DIAMETER 72" DEPTH WITH DUPLEX SET QUICK REMOVAL PUMP.	WEIL MODEL 2519	2@2	1150	460	3	13	2@170	-
SE-2	DUPLEX STORM PUMP SYSTEM CONSISTING OF DOUBLE WEIL 2519. TO BE PROVIDED WITH 4" NPT. DURABLE EPOXY COATED CAST IRON. UPPER AND LOWER SILICON CARBIDE SHAFT SEAL CONSTRUCTION. STAINLESS STEEL MOTOR SHAFT. PROVIDED WITH TETHERED LEVEL CONTROL FLOAT SWITCH. DUPLEX PUMP CONTROL PANEL MODEL 8101E, TYPE 4 STEEL DDDF ENCLOSURE 460V 3 PHASE. 72" X 72" FIBERGLASS BASIN. VARIABLE FREQUENCY DRIVE.	WEIL MODEL: 2519	2@5	1750	460	3	15	2@400	-
WH-1	STAINLESS STEEL COMPACT SEMI-INSTANTANEOUS PACKAGED WATER HEATER: STEAM SUPPLIED, RATED FOR 4800 GPH AT 95-DEG F RISE WITH 15 PSI STEAM. PROVIDE CONENSATION NEUTRALIZATION KIT, INLET STEAM STRAINER, DOUBLE SOLENOID SAFETY VALVE, VACUUM BREAKER, STEAM PRESSURE REDUCING VALVE AND SOURCE STEAM PRESSURE GAUGE. COILS TO BE DOUBLE WALL. TUBES TO BE COPPER-NICKEL INNER/OUTER. INTERNAL STORAGE OF 60 GALLONS. PROVIDE SOLID STATE WATER CONTROLLER.	CEMLINE MODEL: V60SSH1442-DW	-	-	120	1	-	-	-
WH-2	STAINLESS STEEL COMPACT SEMI-INSTANTANEOUS PACKAGED WATER HEATER: STEAM SUPPLIED, RATED FOR 4800 GPH AT 95-DEG F RISE WITH 15 PSI STEAM. PROVIDE CONENSATION NEUTRALIZATION KIT, INLET STEAM STRAINER, DOUBLE SOLENOID SAFETY VALVE, VACUUM BREAKER, STEAM PRESSURE REDUCING VALVE AND SOURCE STEAM PRESSURE GAUGE. COILS TO BE DOUBLE WALL. TUBES TO BE COPPER-NICKEL INNER/OUTER. INTERNAL STORAGE OF 60 GALLONS. PROVIDE SOLID STATE WATER CONTROLLER.	CEMLINE MODEL: V60SSH1442-DW	-	-	120	1	-	-	-
WS-1	TRIPLEX WATER SOFTENER: ASME RATED, CERTIFIED AND STAMPED HEAVY GAUGE CARBON STEEL, ELECTRICALLY WELDED, EPOXY PHENOLIC COATED RESIN TANK, TRIPLEX UNIT, PROGRESSIVE FLOW. SYSTEM RATED FOR 250 GPM CONTINUOUS FLOW PER VESSEL, AND 325 GPM PEAK FLOW PER VESSEL, 8" STAINLESS STEEL PIPING AND INTERNALS. THREE(3) 48"x72" TANKS, 40 CUBIC FEET PER TANK, AND ONE (1) 50"x60" BRINE TANK WITH 3,600 LB STORAGE. AUTOMATIC CONTROLS 1600 KGR MINIMUM AT 480 LBS SALT AND 2400 KGR MAXIMUM AT 1200 LBS SALT CAPACITY. PROVIDE LOW FLOW RECIRCULATION SYSTEM. UNIT TO BE PROVIDED IN A TWO SKID FORMAT ALLOWING FOR AN L SHAPED INSTALLATION. PROVIDE UNIT CONTROLLER.	INDUSTRIAL WATER SOLUTIONS MODEL: WSFF-40-3 TRIPLE PROGRESSIVE	-	-	120	1	-	1300	-

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	DESCRIPTION	BASIS OF DESIGN	NOTES
TMV-1	ASSE 1017 MASTER DIGITAL MIXING VALVE MANIFOLD FOR POTABLE WATER. TWO (2) MIXING VALVE. MIXING VALVE HAVE INTEGRAL RTD SENSOR PER VALVE AND ADDITIONAL SENSORS FOR INLET HOT WATER, INLET COLD WATER, AND RETURN WATER TEMPERATURE PER VALVE. INTEGRAL PRESSURE SENSORS FOR INLET HOT WATER AND INLET COLDWATER PER VALVE. MANIFOLD ASSEMBLY WITH 4" INLETS, 4" OUTLET, AND 2" RETURN PIPING INLET AND OUTLETS. .25 GPM MINIMUM FLOW CAPACITY. AUTOMATIC HOT/COLD SHUTOFF UPON HOT/COLD WATER INLET SUPPLY FAILURE. USER PROGRAMMABLE FOR ON-SITE CONFIGURATION, HIGH-TEMP SANITIZATION MODE, AND HIGH/LOW TEMPERATURE ALARM. PROVIDE INTERFACE WITH BUILDING MANAGEMENT SYSTEM. DISPLAY OUTLET TEMPERATURE WITH OPTIONS TO DISPLAY 4 ADDITIONAL TEMPERATURE INPUTS, 1 FLOW CHANNEL INPUT, AND 1 CONFIGURABLE FLOW OR PRESSURE. UL LISTED 120V PLUG IN POWER SUPPLY WITH 6' CORD (1 PER VALVE). FACTORY ASSEMBLED AND TESTED.	LEONARD VALVE MODEL: M-NV-200-LF-2PS-LC	SET TO 130 F
TMV-2	ASSE 1017 RATED HIGH LOW THERMOSTATIC MIXING VALVE. DIAL THERMOMETER ON INLET AND OUTLET, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS AND WALL SUPPORT, TEMPERATURE CONTROL DOWN TO 1 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE. ASSEMBLY TO BE HOUSED IN MANUFACTURER PROVIDED RECESSED STEEL CABINET WITH BAKED WHITE ENAMEL FINISH.	LEONARD VALVE MODEL: XL-186-26-LF-BWE REC	SET TO 110 F PROVIDE TAP ON OUTLET PIPE FOR TEMPERATURE SENSOR
TMV-3	ASSE 1017 RATED HIGH LOW THERMOSTATIC MIXING VALVE. DIAL THERMOMETER ON INLET AND OUTLET, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS AND WALL SUPPORT, TEMPERATURE CONTROL DOWN TO 1 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE. ASSEMBLY TO BE HOUSED IN MANUFACTURER PROVIDED EXPOSED STEEL CABINET WITH BAKED WHITE ENAMEL FINISH.	LEONARD VALVE MODEL: XL-186-26-LF-BWE EXP	SET TO 110 F PROVIDE TAP ON OUTLET PIPE FOR TEMPERATURE SENSOR
TMV-4	THERMOSTATIC WATER MIXING VALVE, ASSE 1017 RATED, DURA-TROL SOLID BIMETAL THERMOSTAT DIRECTLY LINKED TO VALVE PORTING TO CONTROL THE INTAKE OF HOT AND COLD WATER AND COMPENSATE FOR SUPPLY TEMPERATURE OR PRESSURE FLUCTUATIONS. 1 GPM MINIMUM FLOW CAPACITY.	LEONARD VALVE MODEL TM-26-LF-BDT-IT	SET TO 110 F PROVIDE TAP ON OUTLET PIPE FOR TEMPERATURE SENSOR
TMV-5	ASSE 1017 RATED HIGH LOW THERMOSTATIC MIXING VALVE. DIAL THERMOMETER ON INLET AND OUTLET, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS AND WALL SUPPORT, TEMPERATURE CONTROL DOWN TO 1 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE. ASSEMBLY TO BE HOUSED IN MANUFACTURER PROVIDED RECESSED STEEL CABINET WITH BAKED WHITE ENAMEL FINISH.	LEONARD VALVE MODEL: XL-186-420B-LF-BWE REC	SET TO 110 F PROVIDE TAP ON OUTLET PIPE FOR TEMPERATURE SENSOR
TMV-6	ASSE 1070 RATED POINT OF USE THERMOSTATIC MIXING VALVE. LOCKED TEMPERATURE ADJUSTMENT CAP. INTEGRAL CHECK VALVES ON INLETS. TEMPERATURE CONTROL DOWN TO .25 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH THERMOPLASTIC SHUTTLE.	LEONARD VALVE MODEL: 170-LF	SET TO 110 F PROVIDE TAP ON OUTLET PIPE FOR TEMPERATURE SENSOR

BACKFLOW PREVENTER SCHEDULE

TAG		DESCRIPTION	BASIS OF DESIGN	NOTES
RPZ	1	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER: ASSE 1013 APPROVED. MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL. THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM. UNIT PROVIDED WITH CONNECTED FLOOD CONTROL SYSTEM (FCIS) CONNECTED TO SOLENOID CONTROL 120V / 1PH.	ZURN / WILKINS MODEL: 375A-6" W/ FCIS	10 PSI LOSS @ 1000 GPM INSTALL PER MANUFACTURER REQUIREMENTS.
RPZ	2	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER: ASSE 1013 APPROVED. MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL. THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM. UNIT PROVIDED WITH CONNECTED FLOOD CONTROL SYSTEM (FCIS) CONNECTED TO SOLENOID CONTROL 120V / 1PH.	ZURN / WILKINS MODEL: 375A-6" W/ FCIS	10 PSI LOSS @ 1000 GPM INSTALL PER MANUFACTURER REQUIREMENTS.
RPZ	3	REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER SHALL BE CERTIFIED TO NSF/ANSI/CAN 61, SHALL BE ASSE 1013, RATED TO 180 DEG-F, SUPPLIED WITH FULL PORT BALL VALVES. THE MAIN BODY AND ACCESS COVERS SHALL BE LOW LEAD BRONZE; SEAT RING AND ALL INTERNAL POLYMERS SHALL BE NORYL AND THE SEAT DISC ELASTOMERS SHALL BE SILICONE. THE FIRST AND SECOND CHECKS SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT REMOVING RELIEF VALVE OR THE ENTIRE DEVICE FROM THE LINE. PROVIDE AIR GAP ADAPTER.	ZURN / WILKINS MODEL: 975XL2-1"	SERVING HVAC HYDRONIC HOT WATER SYSTEM MAKE-UP.
RPZ	4	REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER SHALL BE CERTIFIED TO NSF/ANSI/CAN 61, SHALL BE ASSE 1013, RATED TO 180 DEG-F, SUPPLIED WITH FULL PORT BALL VALVES. THE MAIN BODY AND ACCESS COVERS SHALL BE LOW LEAD BRONZE; SEAT RING AND ALL INTERNAL POLYMERS SHALL BE NORYL AND THE SEAT DISC ELASTOMERS SHALL BE SILICONE. THE FIRST AND SECOND CHECKS SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT REMOVING RELIEF VALVE OR THE ENTIRE DEVICE FROM THE LINE. PROVIDE AIR GAP ADAPTER.	ZURN / WILKINS MODEL: 975XL2-1"	SERVING HVAC HYDRONIC CHILLED WATER SYSTEM MAKE-UP.
RPZ	5	REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER SHALL BE CERTIFIED TO NSF/ANSI/CAN 61, SHALL BE ASSE 1013, RATED TO 180 DEG-F, SUPPLIED WITH FULL PORT BALL VALVES. THE MAIN BODY AND ACCESS COVERS SHALL BE LOW LEAD BRONZE; SEAT RING AND ALL INTERNAL POLYMERS SHALL BE NORYL AND THE SEAT DISC ELASTOMERS SHALL BE SILICONE. THE FIRST AND SECOND CHECKS SHALL BE ACCESSIBLE FOR MAINTENANCE WITHOUT REMOVING RELIEF VALVE OR THE ENTIRE DEVICE FROM THE LINE. PROVIDE AIR GAP ADAPTER.	ZURN / WILKINS MODEL: 975XL2 2"	SERVING IRRIGATION.

VIBRATION ISOLATION SCHEDULE

Type Mark	EQUIPMENT	LOCATION	ELEVATION FROM GRADE	BASE TYPE	ISOLATOR TYPE	MIN. STATIC DEFLECTION IN
DWBP-1	DOMESTIC WATER BOOSTER PUMP	WATER ENTRANCE	0'-4"	A	3	0.75"
IBP-1	IRRIGATION BOOSTER PUMP	WATER ENTRANCE	0'-4"	A	3	0.75"
RCP-1	HOT WATER RETURN PUMP	HX/CHW	VARIES	A	3	0.75"
RCP-2	HOT WATER RETURN PUMP	HX/CHW	VARIES	A	3	0.75"
SE-1	SEWAGE EJECTOR PUMP	HX/CHW	VARIES	A	3	0.75"
SE-2	SEWAGE EJECTOR PUMP	WATER ENTRANCE	VARIES	A	3	0.75"
WS-1	WATER SOFTENER	WATER ENTRANCE	0'-4"	A	3	0.75"

1. BASE TYPES:
   - A = DIRECT ISOLATION
   - B = STRUCTURAL STEEL RAILS OR BASE
   - C = CONCRETE INERTIA BASE
   - D = CURB-MOUNTED BASE

2. ISOLATOR TYPES:
   - TYPE - 1 = FIBERGLASS OR NEOPRENE PAD
   - TYPE - 2 = FLOOR ISOLATOR OR HANGER
   - TYPE - 3 = SPRING FLOOR ISOLATOR OR HANGER
   - TYPE - 4 = RESTRAINED SPRING ISOLATOR

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SHEET ISSUE

2	50% CONSTRUCTION DOCUMENTS	11/01/24
3	95% CONSTRUCTION DOCUMENTS	12/19/24
4	CONSTRUCTION DOCUMENTS	01/13/25
5	ADDENDUM 01	01/27/25

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SHEET TITLE
PLUMBING EQUIPMENT

SHEET NUMBER
P-602

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