

RENOVATE USPFO VAULT

USPFO DEPLOYMENT STORAGE FACILITY

IKE SKELTON TRAINING SITE

JEFFERSON CITY, MISSOURI



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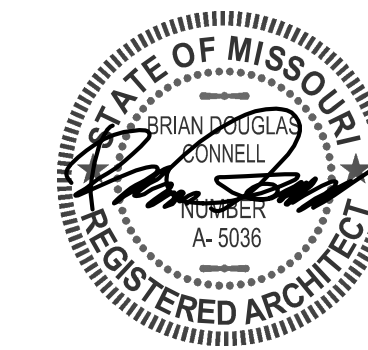
OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF THE NATIONAL GUARD

DESIGNER: CONNELL ARCHITECTURE, P.C.
2311 EAST WALNUT STREET SUITE B
COLUMBIA, MISSOURI 65201

PROJECT NUMBER: T2226-01

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

SITE NUMBER: 6300
ASSET NUMBER: 8136300015



7/20/2023
BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

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CHALL. ARS. TREATA

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

MISSOURI NATIONAL GUARD

RENOVATE USPFO VAULT

USPFO DEPLOYMENT
STORAGE WAREHOUSE
7001 RANGE ROAD

IKE SKELTON TRAINING SITE
2302 MILITIA DRIVE
JEFFERSON CITY, MO 65101

PROJECT No. T2226-01
SITE No. 6300
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REVISION: _____
DATE: _____
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DATE: _____
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DATE: _____
ISSUE DATE: 7/20/2023

CAD DWG FILE:
T2226-01-6300-8136300012-G-002
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:

LOCATION MAPS &
DRAWING INDEX

SHEET NUMBER:
G-002
SHEET 2 OF 10
ISSUE DATE: 7/20/2023

GENERAL NOTES:

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW THE DRAWINGS TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS.

1. DRAWINGS - THESE DRAWINGS SHALL NOT BE SCALED. REFER TO DIMENSIONS INDICATED, ACTUAL SIZES OF CONSTRUCTION ITEMS, OR OTHER RELIABLE METHODS OF LOCATING CONSTRUCTION. WHERE NO DIMENSION OR METHOD OF DETERMINING A LOCATION IS GIVEN, VERIFY CORRECT LOCATION WITH CONNELL ARCHITECTURE P.C. PRIOR TO INSTALLATION.
2. DIMENSIONS - DIMENSIONS ON PLANS ARE FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS OTHERWISE NOTED. DIMENSIONS INDICATED AS "CLEAR" ARE CRITICAL FOR MINIMUM REQUIRED CLEARANCES AND SHALL BE A MINIMUM DIMENSION MEASURED FROM FACE OF FINISH MATERIALS.
3. COORDINATION - GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR.
4. EXISTING CONDITIONS - THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE AND NOTIFY THE CONSTRUCTION ADMINISTRATOR OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF THE WORK.
5. PRECAUTIONS - CONTRACTOR SHALL IMMEDIATELY REPORT ANY UNFORESEEN CONDITIONS DISCOVERED IN THE WORK WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO THE OCCUPANTS TO THE OWNER'S REPRESENTATIVE AND THE CONSTRUCTION ADMINISTRATOR. IMPLEMENT NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE AND PROTECT THE OCCUPANTS.
6. HAZARDOUS MATERIALS - CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR.
7. SITE UTILIZATION - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ADVERSELY AFFECT ANY PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTIES.
8. EXIT ACCESS - MAINTAIN FREE, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION AND EXISTING OCCUPIED BUILDINGS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.
9. CONTRACTOR SHALL FURNISH & INSTALL ALL SYSTEMS, MATERIALS, COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION, WHETHER OR NOT ALL SUCH MATERIALS & DETAILS OF INSTALLATION HAVE BEEN SPECIFICALLY MENTIONED OR SHOWN ON THE CONSTRUCTION DRAWINGS. ALL INSTALLATION AND DETAILS TO CONFORM TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS.
10. ANY AND ALL MATERIALS NOTED "TO REMAIN" ARE EXISTING MATERIALS TO REMAIN A PART OF THE WORK UNLESS OTHERWISE NOTED. ANY MATERIAL NOT DESIGNATED "TO REMAIN" SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER, AND REPLACED WITH NEW MATERIALS UNLESS OTHERWISE NOTED.

CODES & REGULATIONS

1. ALTERATIONS AND ADDITION SHALL COMPLY WITH 2021 IBC, 2021 IFC, 2021 IMC, 2020 NEC.
2. ALTERATIONS AND ADDITION SHALL COMPLY WITH ICC ANSI A117.1.
2. VAULT DOOR SHALL CONFORM TO FEDERAL SPECIFICATION AA-D-600 - GSA CLASS 5.

DRAWING SHEET INDEX:

ARCHITECTURAL DRAWINGS

G-001	COVER PAGE
G-002	LOCATION MAPS & DRAWING INDEX
AD-100	SELECTIVE DEMOLITION PLAN - EXISTING VAULT
A-100	VAULT PLAN & ELEVATIONS - EXISTING + ADDITION
A-300	VAULT WALL SECTIONS - EXISTING + ADDITION

STRUCTURAL DRAWINGS

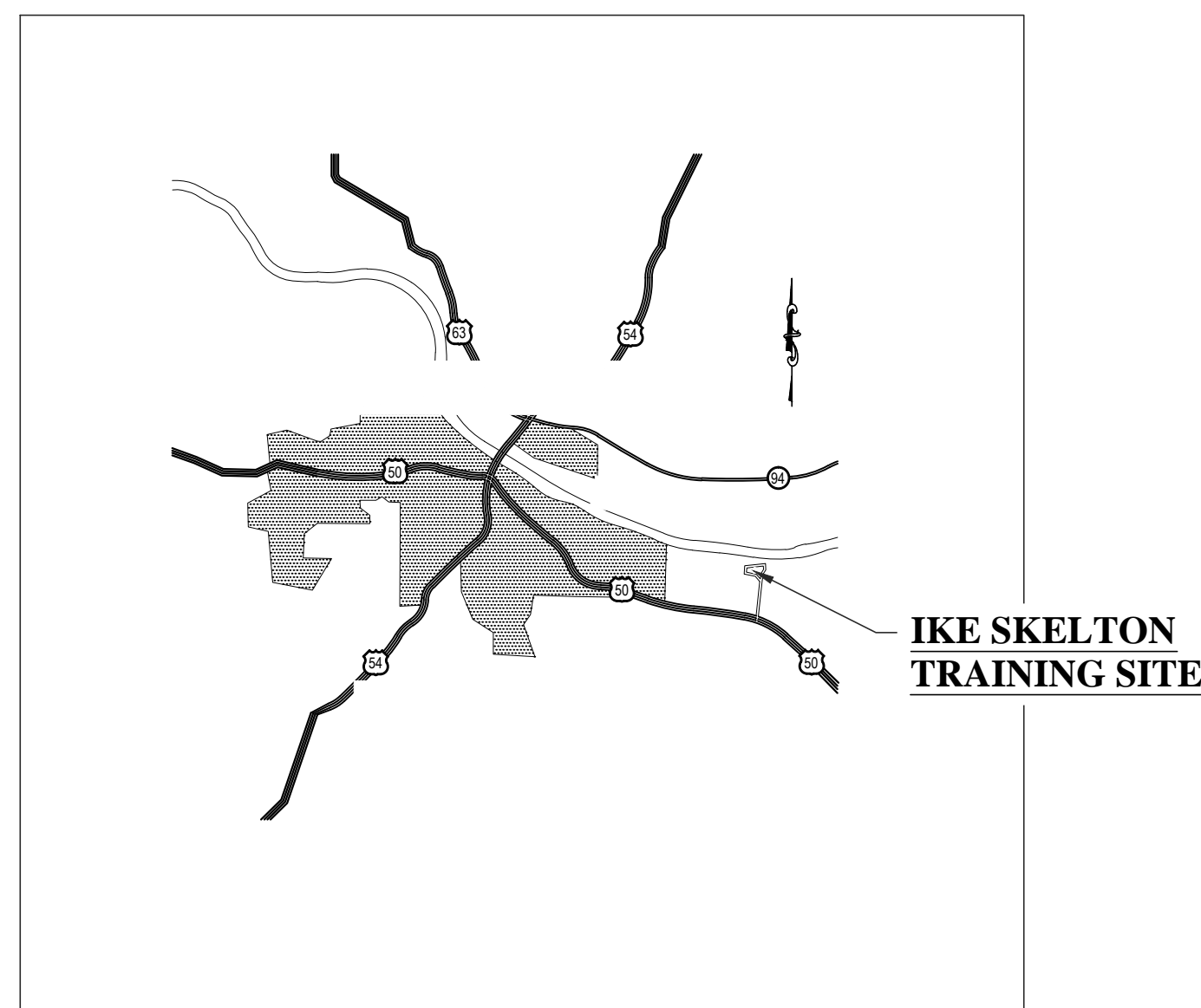
S-100	GENERAL STRUCTURAL DATA
S-200	FOUNDATION PLANS & DETAILS
S-300	ROOF PLAN & DETAILS

MECHANICAL-ELECTRICAL-PLUMBING DRAWINGS

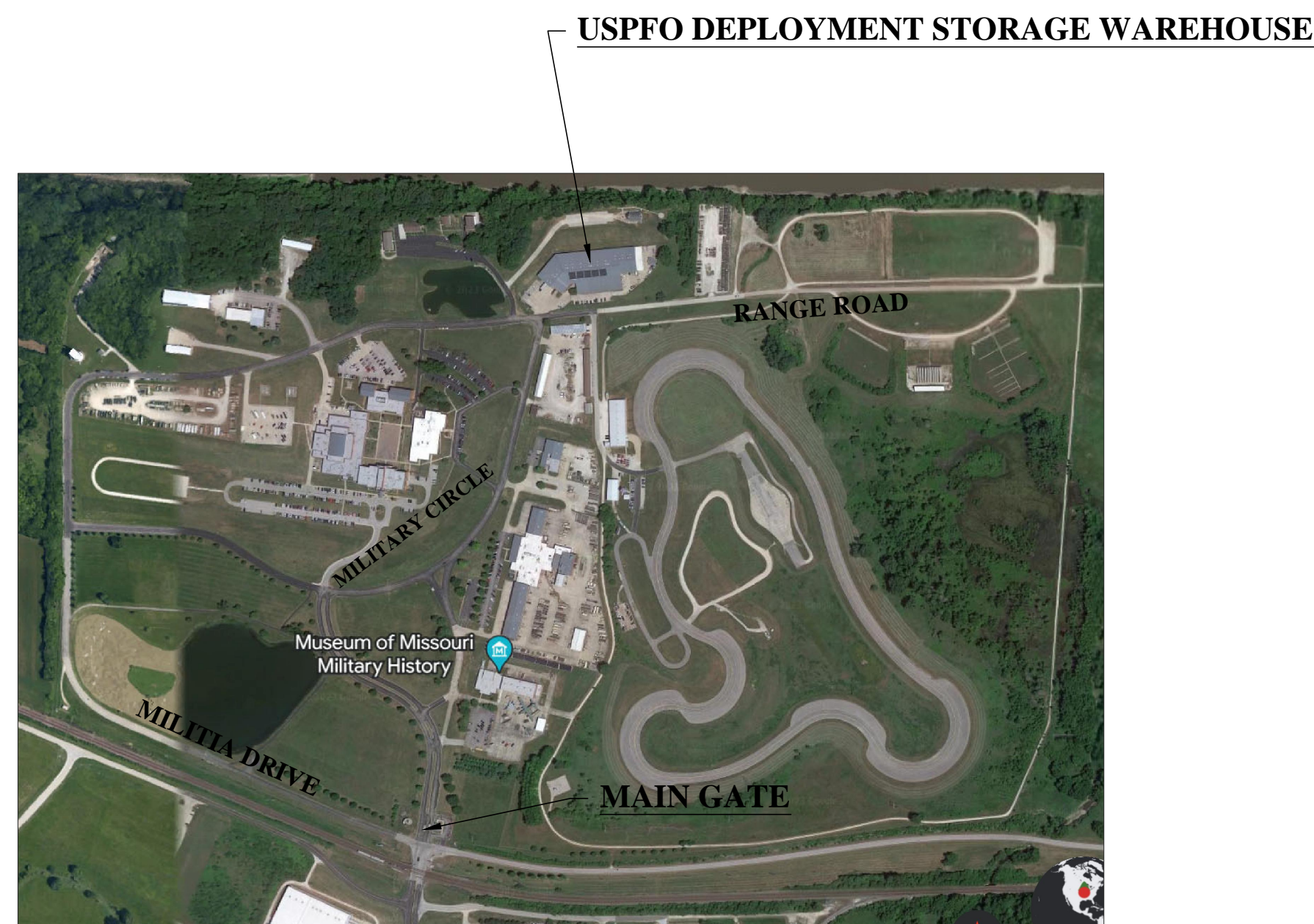
ME-101	MECHANICAL & ELECTRICAL PLANS
ME-501	MECHANICAL & ELECTRICAL DETAILS & SCHEDULES



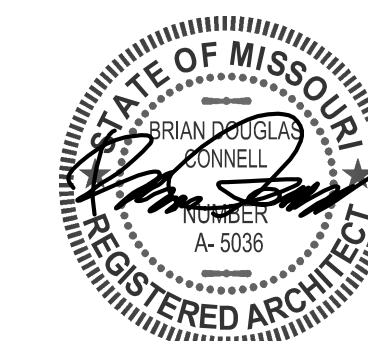
1 MISSOURI STATE MAP
G-002 NOT TO SCALE



2 VICINITY MAP - IKE SKELTON TRAINING SITE
G-002 NOT TO SCALE



3 SITE MAP - IKE SKELTON TRAINING SITE
G-002 NOT TO SCALE



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CAD DWG FILE:

T2226-01-6300-8136300012-AD-100

DRAWN BY: BDC

CHECKED BY: BDC

DESIGNED BY: BDC

SHEET TITLE:

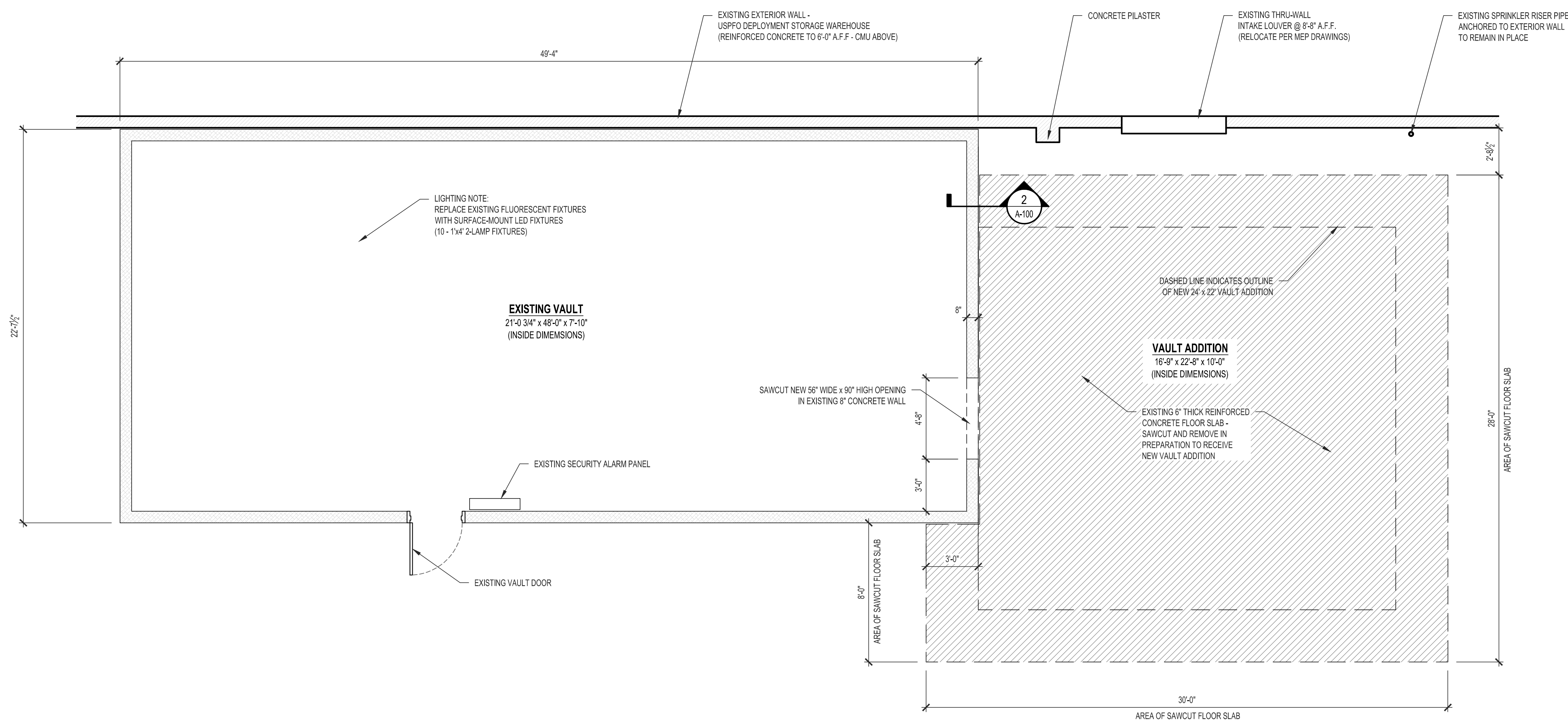
**SELECTIVE
DEMOLITION PLAN**

SHEET NUMBER:

AD-100

SHEET 3 OF 10

ISSUE DATE: 7/20/2023

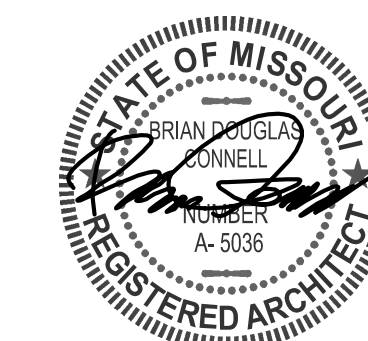


1
AD-100

USPFO VAULT - SELECTIVE DEMOLITION PLAN

ASSET NUMBER - 8136300012

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



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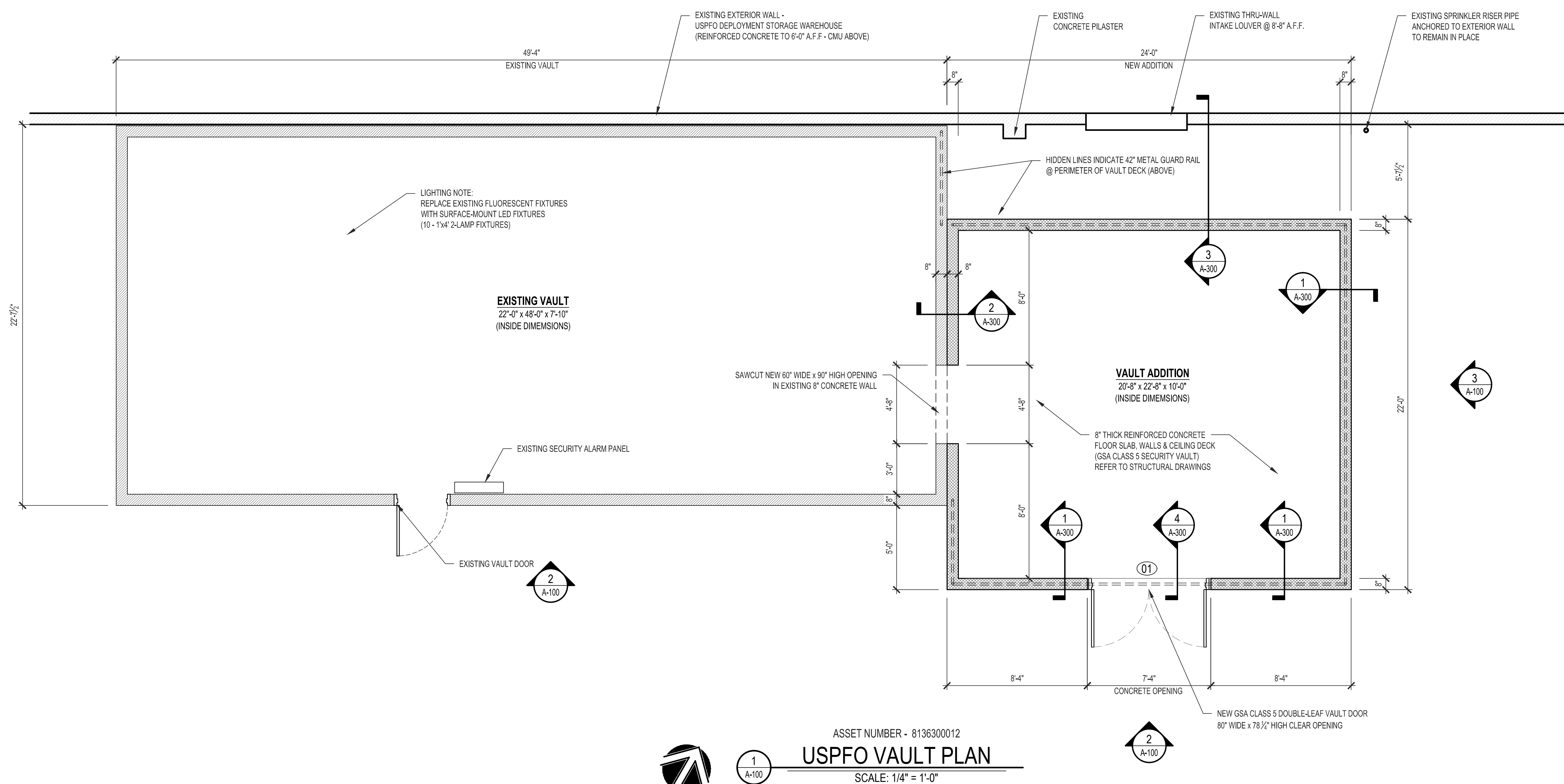
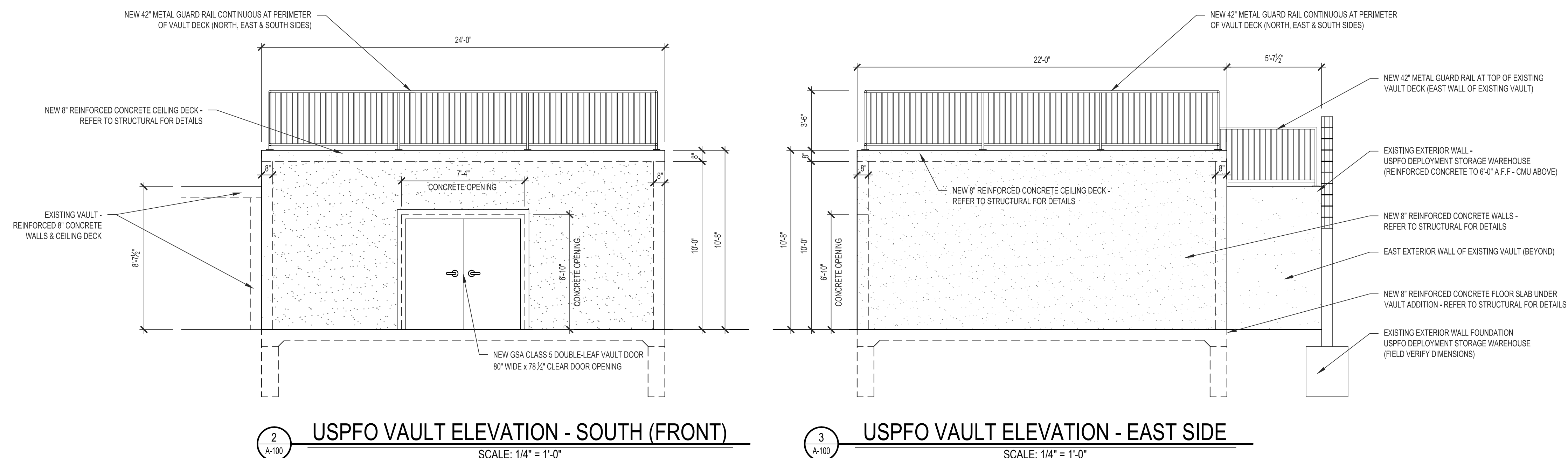
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VAULT FLOOR PLAN -
EXISTING + ADDITION

SHEET NUMBER:

A-100

SHEET 4 OF 10
ISSUE DATE: 7/20/2023

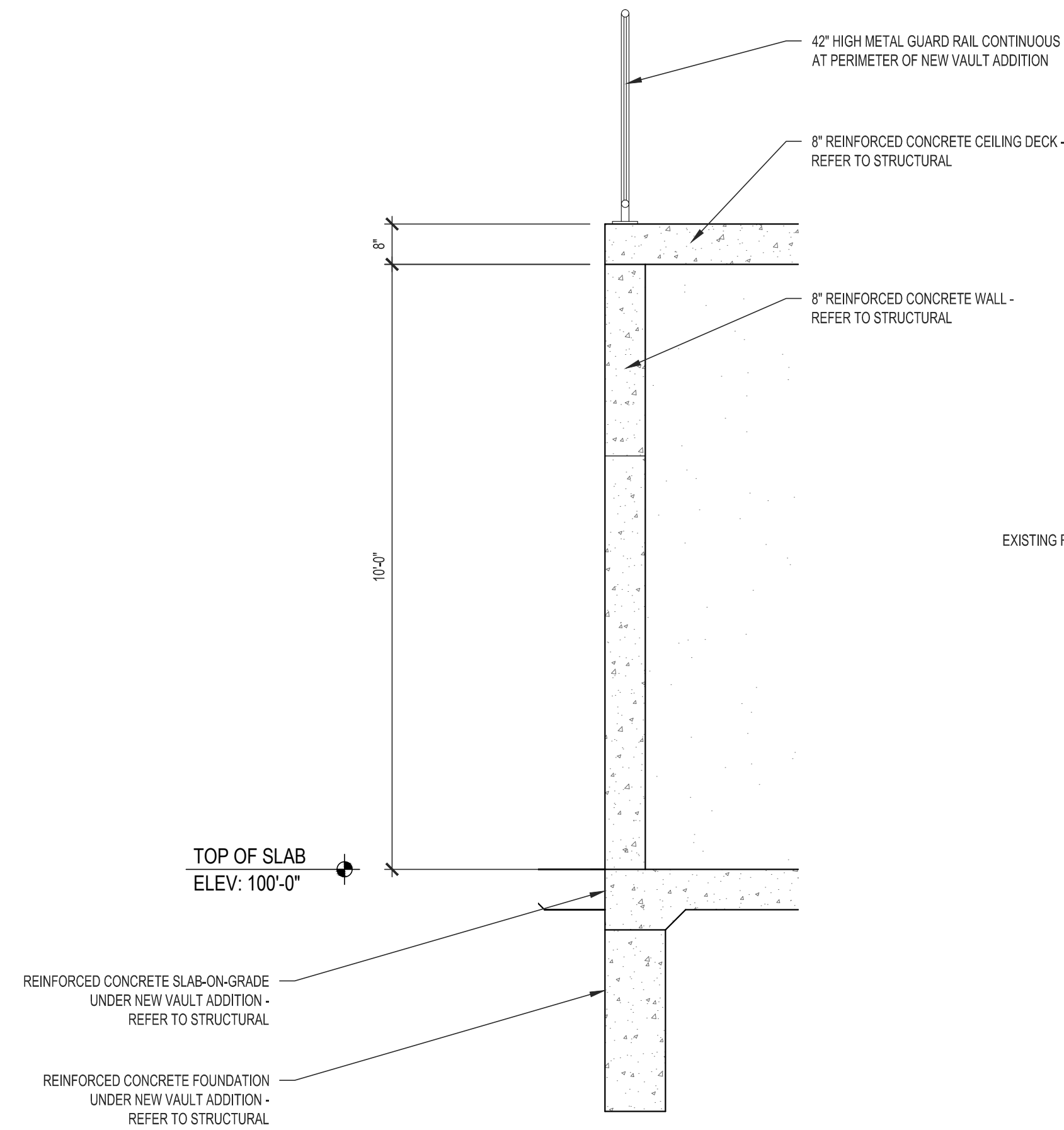


ASSET NUMBER - 8136300012
USPFO VAULT PLAN
SCALE: 1/4" = 1'-0"

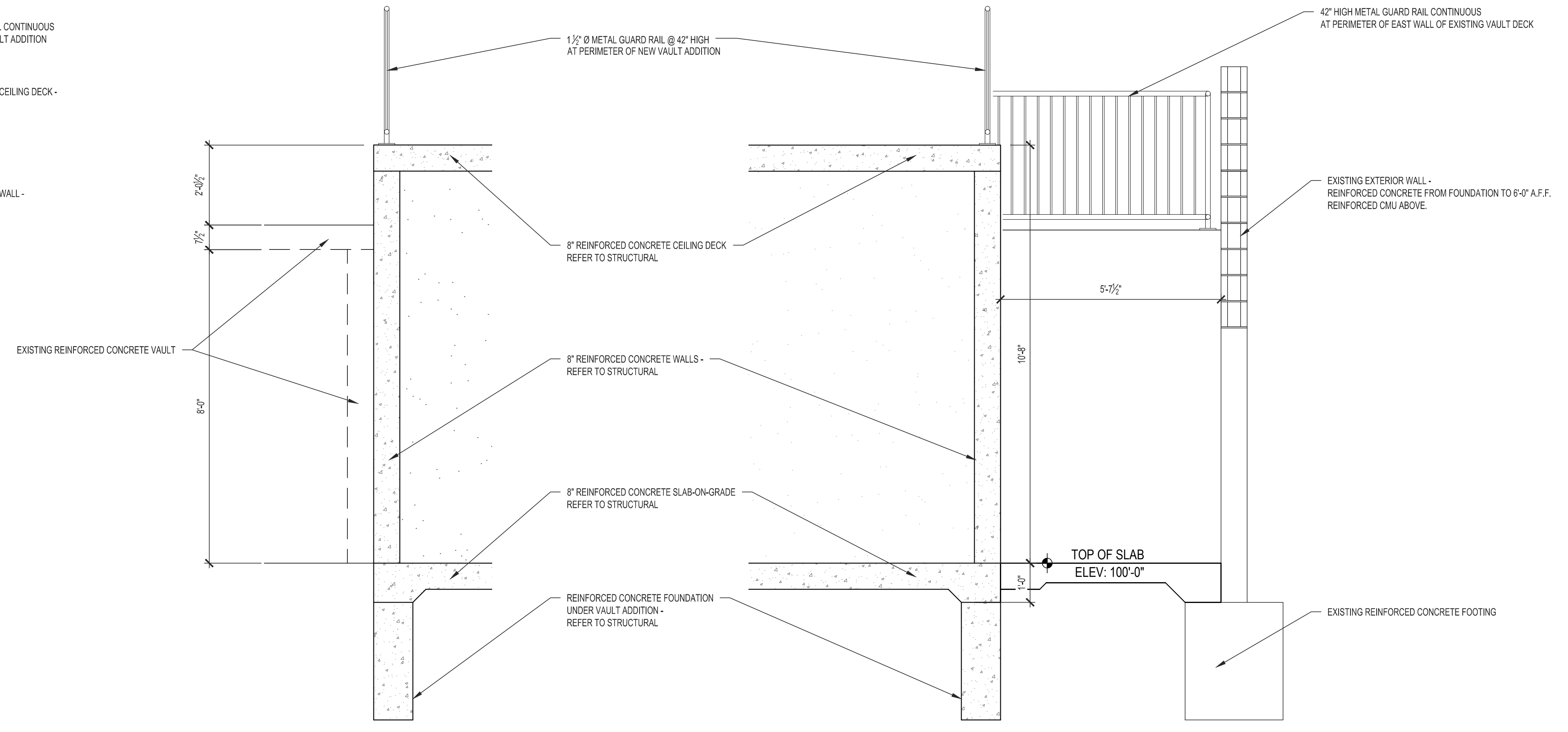


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A-100

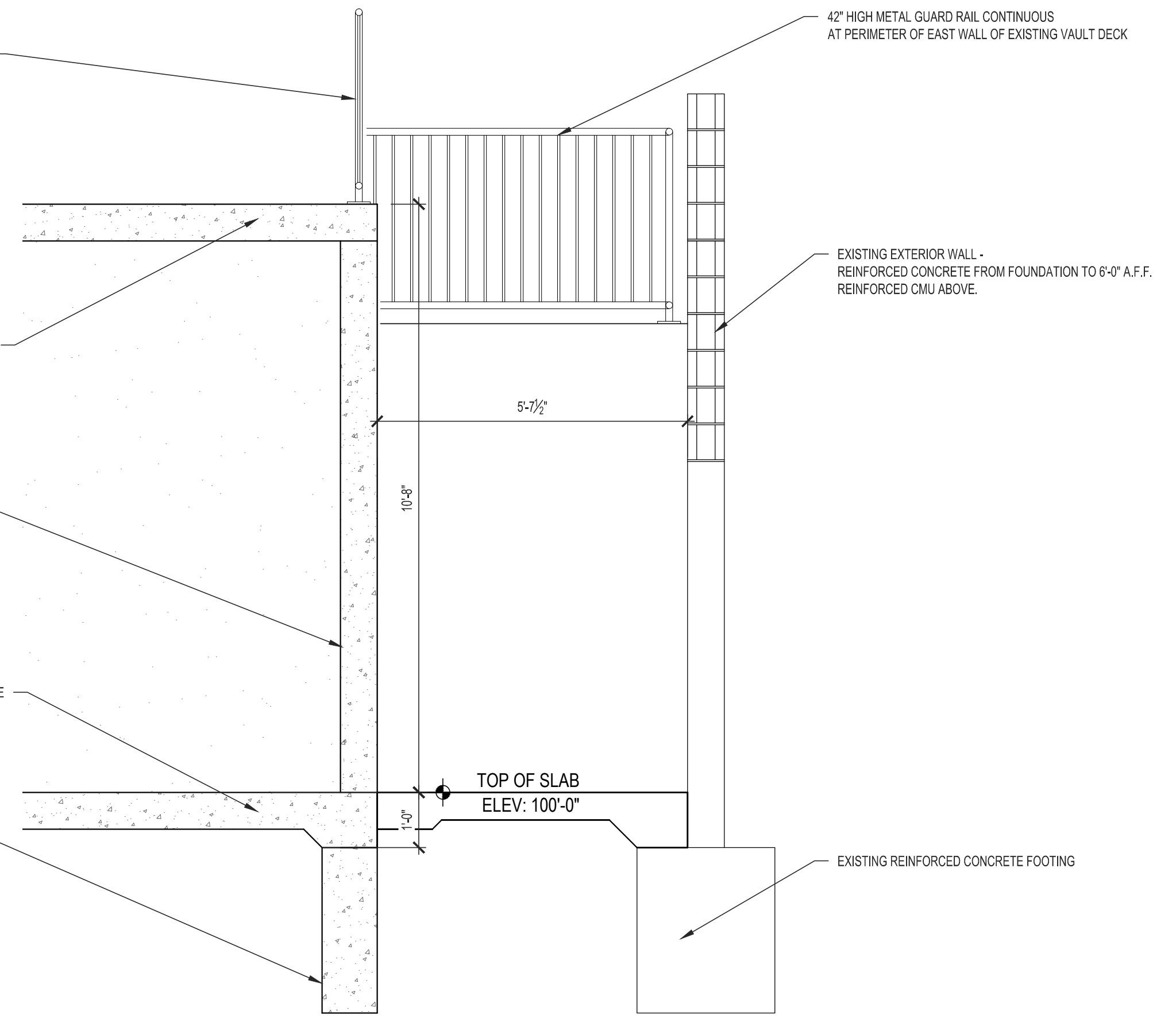
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A-100



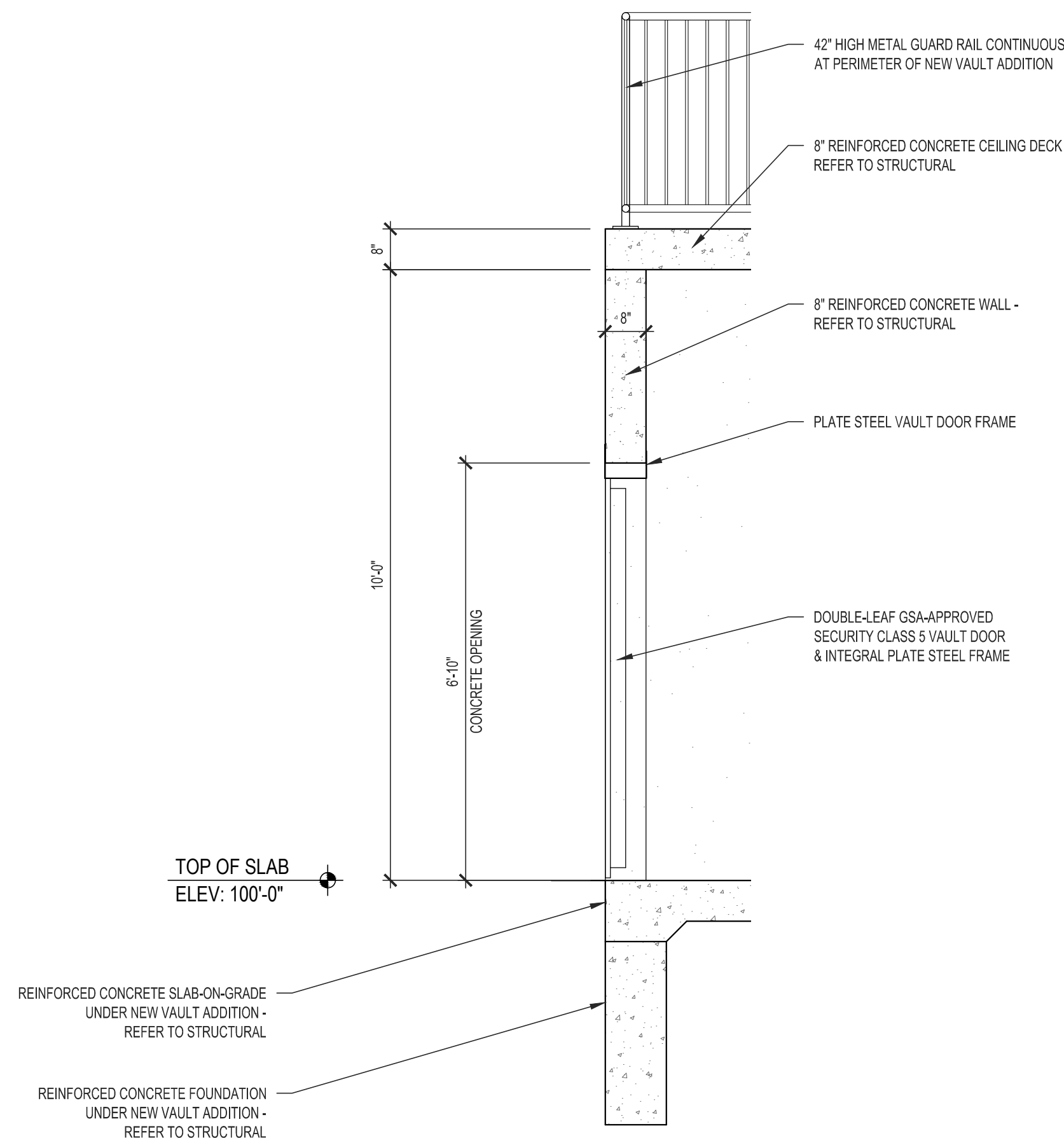
1
A-300
TYPICAL VAULT WALL SECTION
SCALE: 1/2" = 1'-0"



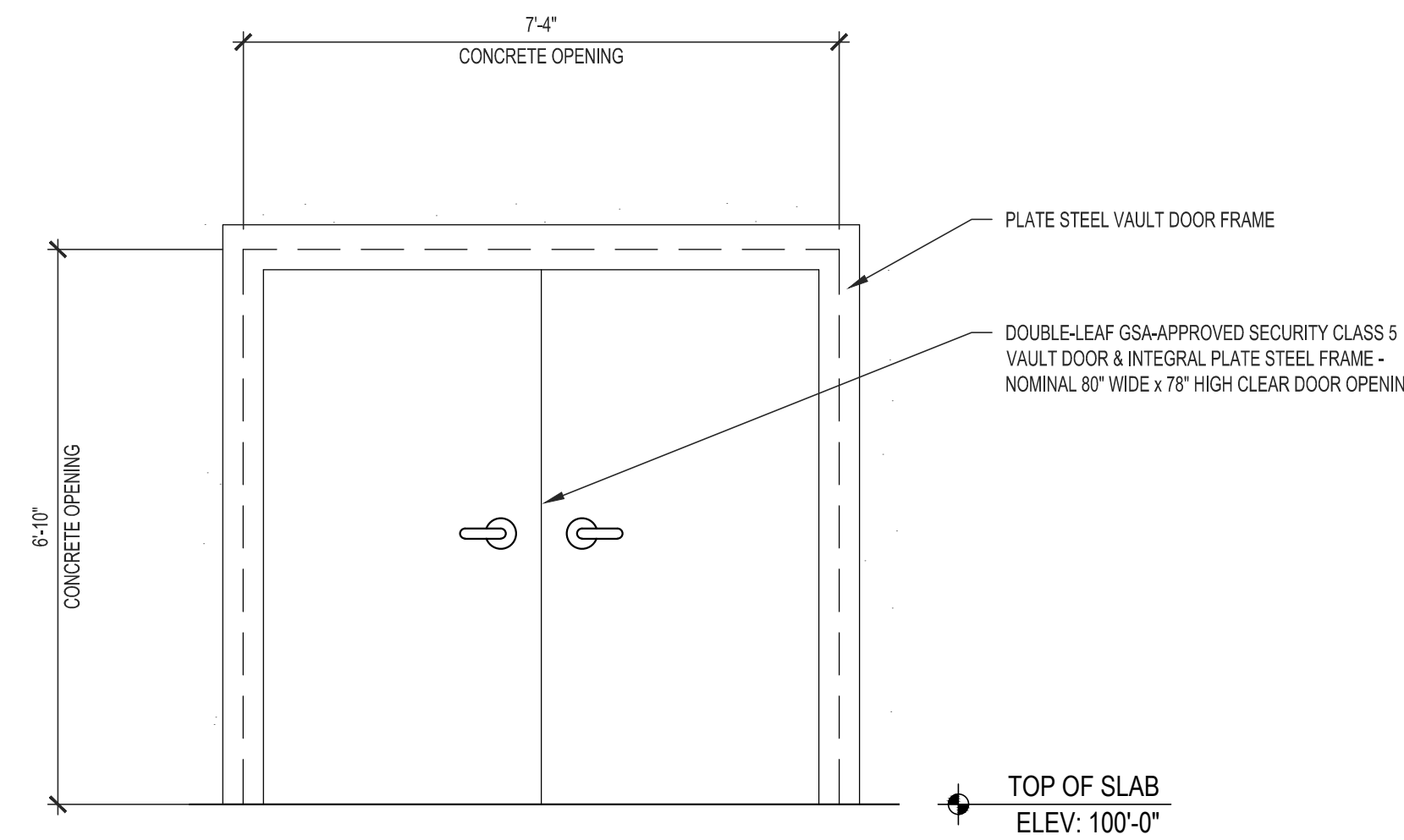
2
A-300
NEW-EXISTING VAULT WALL SECTION
SCALE: 1/2" = 1'-0"



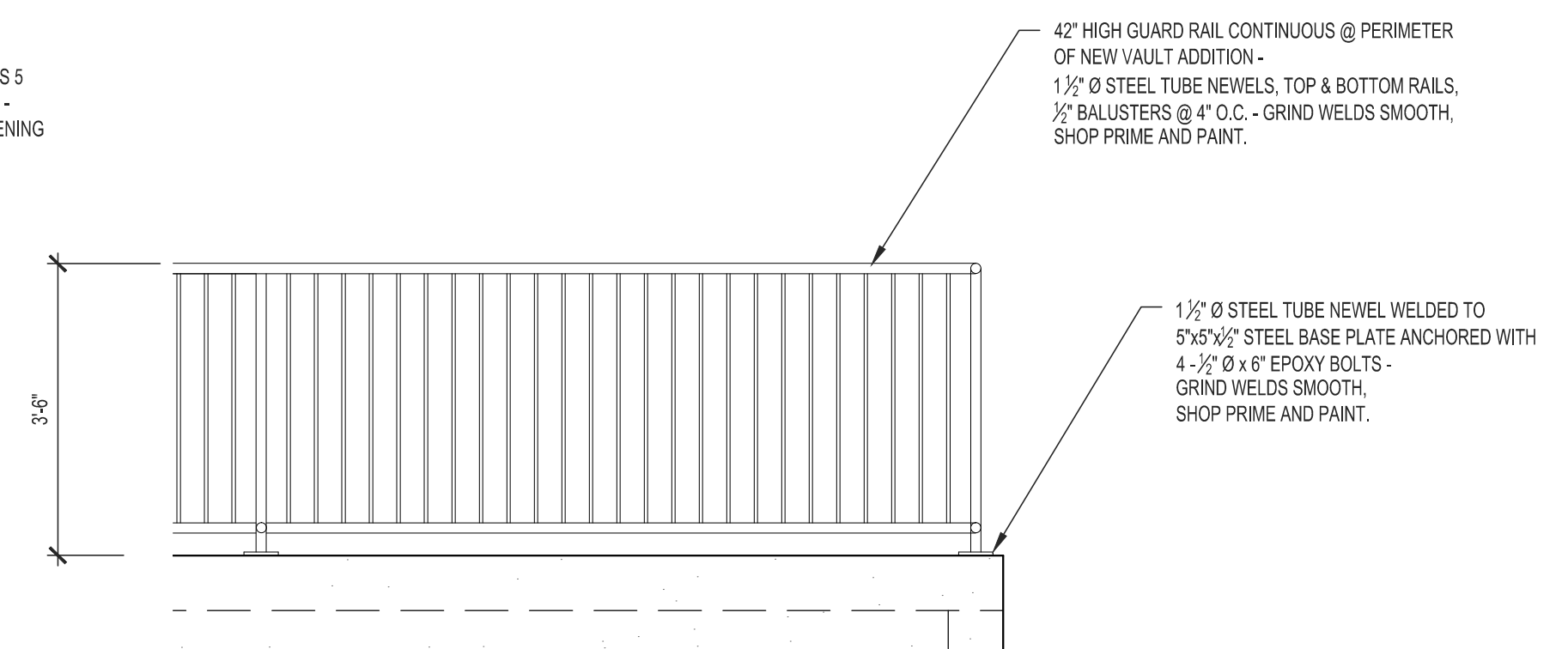
3
A-300
REAR VAULT WALL SECTION
SCALE: 1/2" = 1'-0"



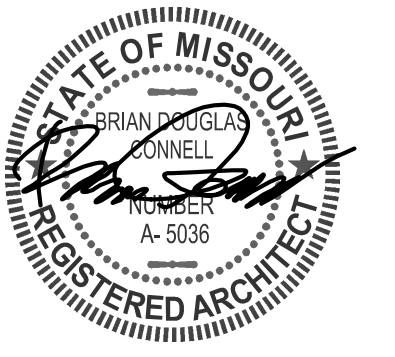
4
A-300
VAULT DOOR SECTION
SCALE: 1/2" = 1'-0"




5
A-300
VAULT DOOR ELEVATION
SCALE: 1/2" = 1'-0"



6
A-300
METAL GUARD RAIL DETAIL
SCALE: 1/2" = 1'-0"



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DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

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VAULT WALL SECTIONS
EXISTING + ADDITION

SHEET NUMBER:

A-300
SHEET 5 OF 10
ISSUE DATE: 7/20/2023

Renovate USPFO Vault

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2018 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATIONS	-	3,000 PSI
CAST-IN-PLACE WALLS	-	3,500 PSI
FLOOR SLAB	-	4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS	-	4,000 PSI
2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
3. CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
10. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
11. CONCRETE WORK EXECUTION
 - A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CAST AGAINST AND EXPOSED TO EARTH.....	3 INCHES
EXPOSED TO EARTH OR WEATHER.....	2 INCHES
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....	1 1/2 INCHES
 - C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLOCATING AGGREGATE.
 - D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

POST-INSTALLED ANCHORS

1. ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
2. EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
3. ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
4. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
5. EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
6. ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
7. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
8. STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- a. CONCRETE GROUT DESIGN MIX (PERIODIC)
- b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- c. BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- d. STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
- e. STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- f. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- g. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DESIGN DATA	
2018 INTERNATIONAL BUILDING CODE / ASCE 7-16	
BUILDING OCCUPANCY CATEGORY	IV
EARTHQUAKE DESIGN DATA	
S _s	= 0.320
S ₁	= 0.130
S _{0.5}	= 0.260
S _{0.1}	= 0.180
SITE CLASS	D (UNKNOWN)
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM =	
ORDINARY REINFORCED CONCRETE WALL	
R	= 5.00
W _e	= 25
C _d	= 4.50
I _e	= 1.50
EQUIVALENT LATERAL FORCE PROCEDURE	
V	= .075W
NET ALLOWABLE SOIL BEARING	1500 lbs/sq.ft

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



07/21/2023

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DESIGNED BY: JWV

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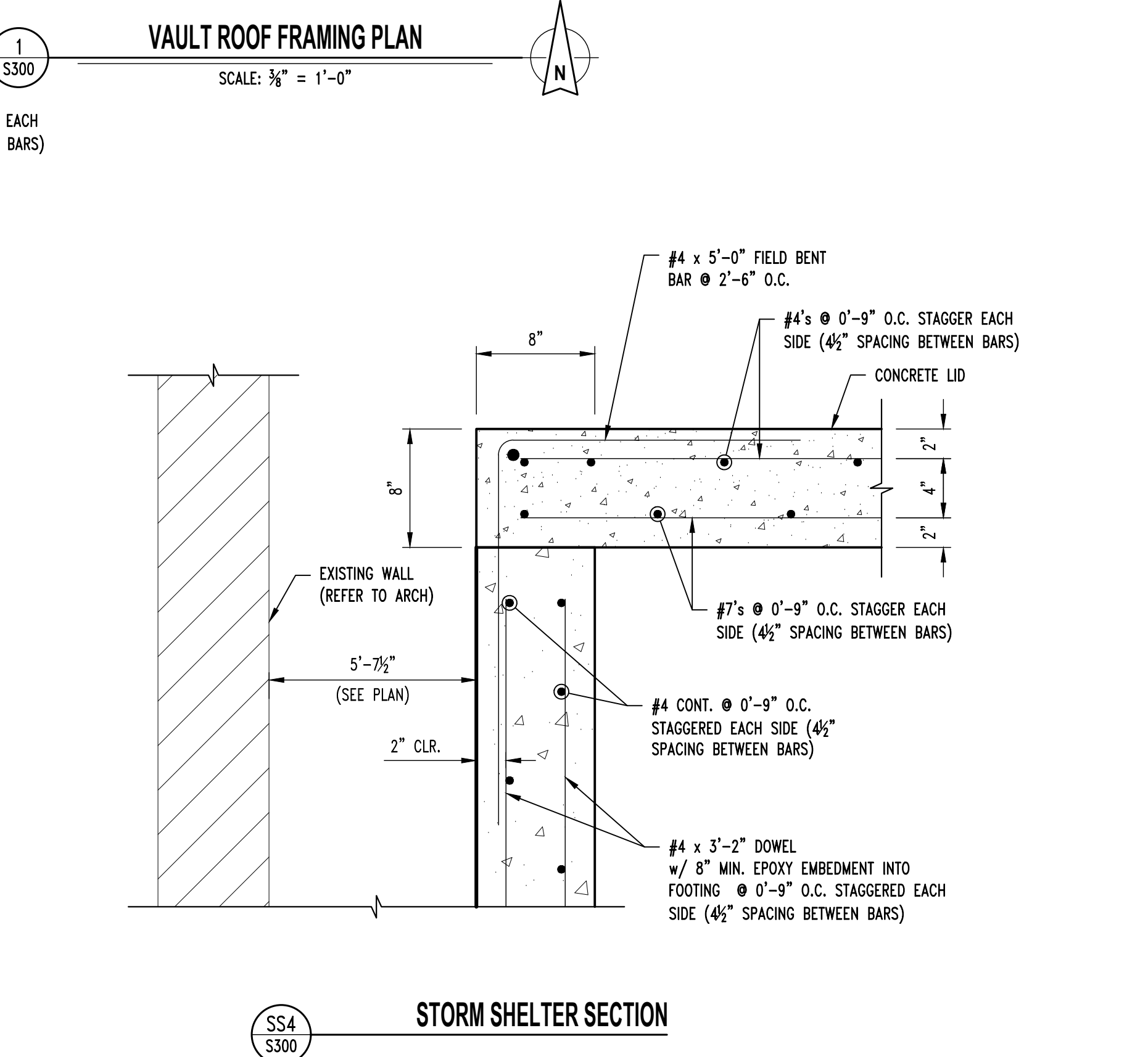
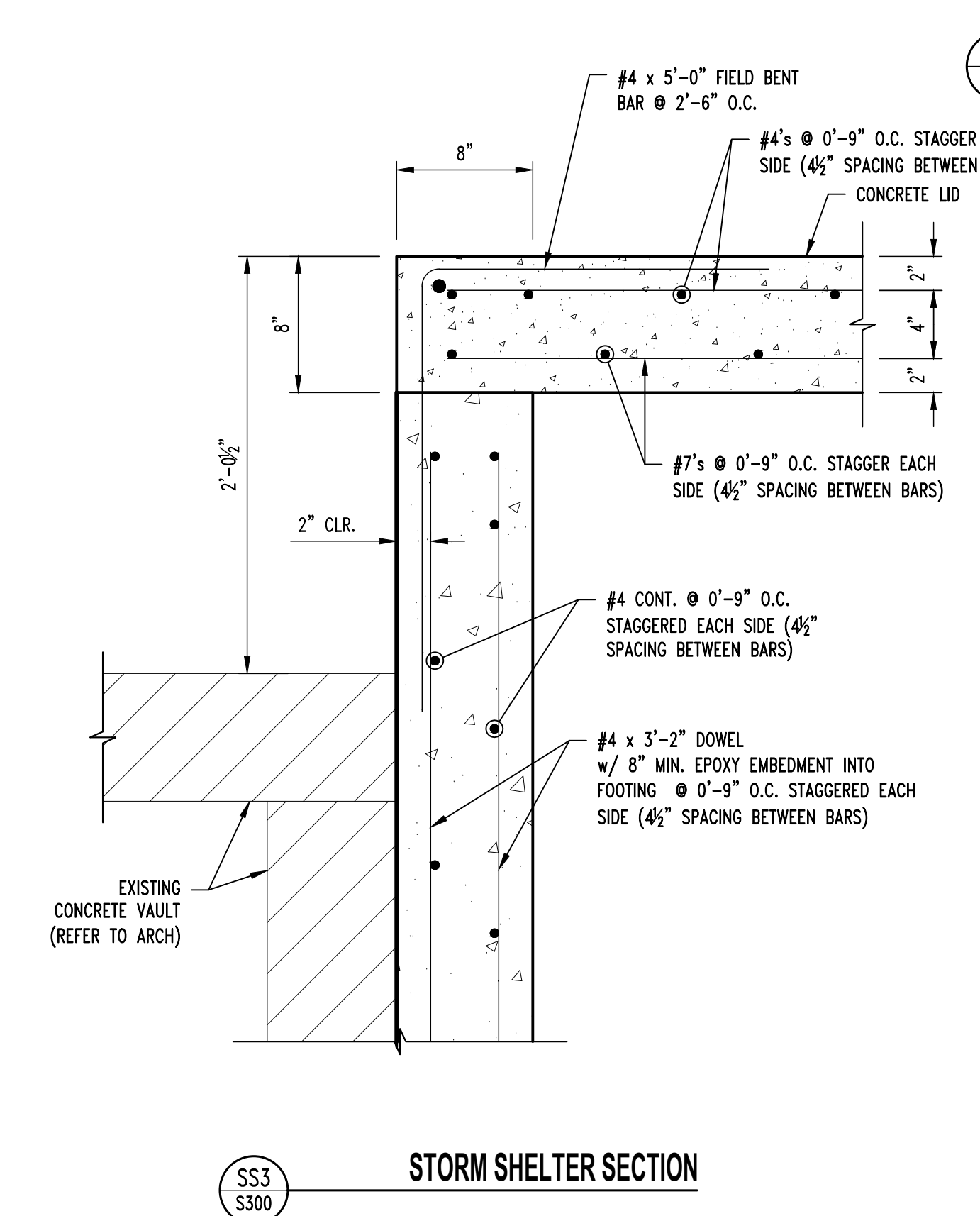
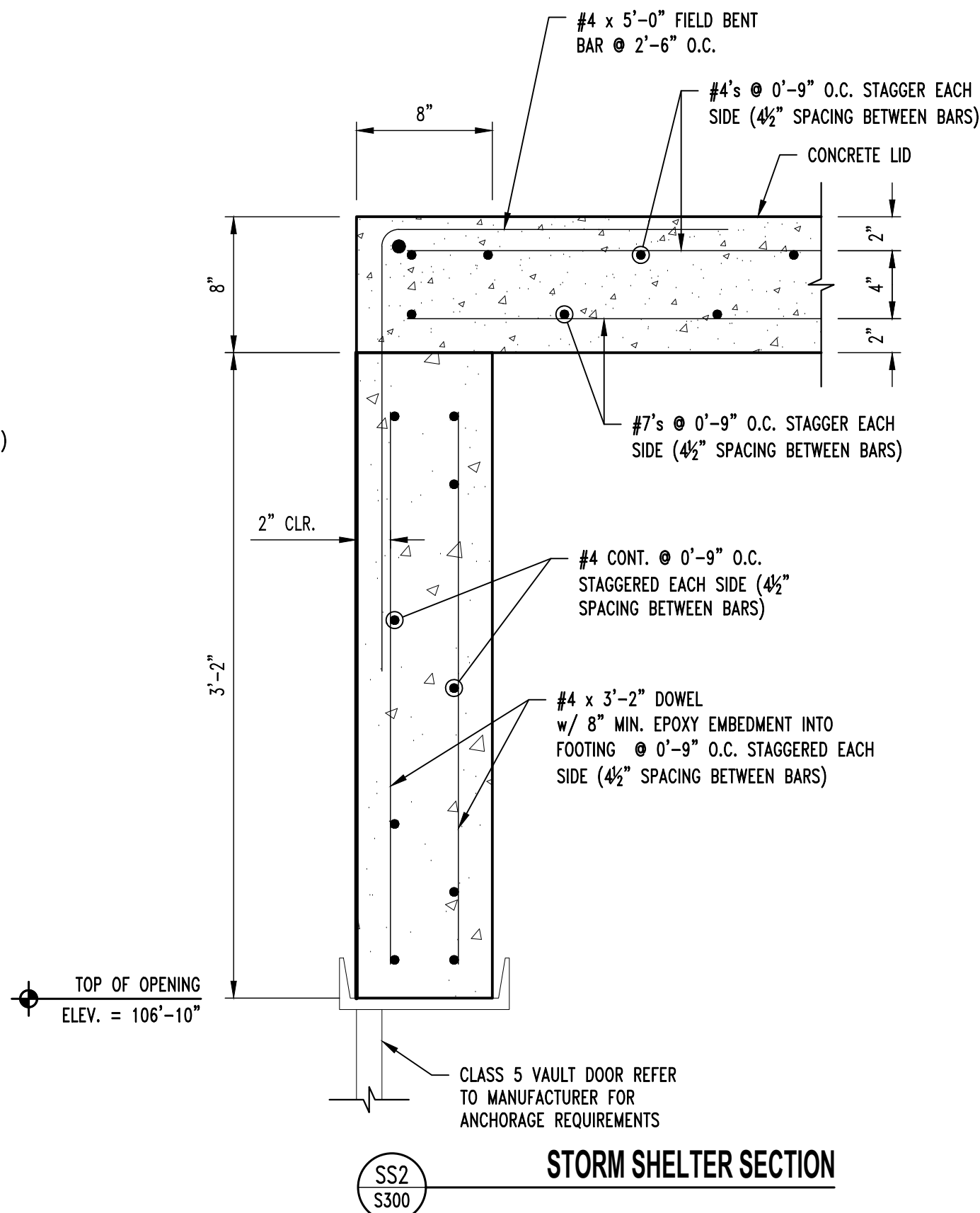
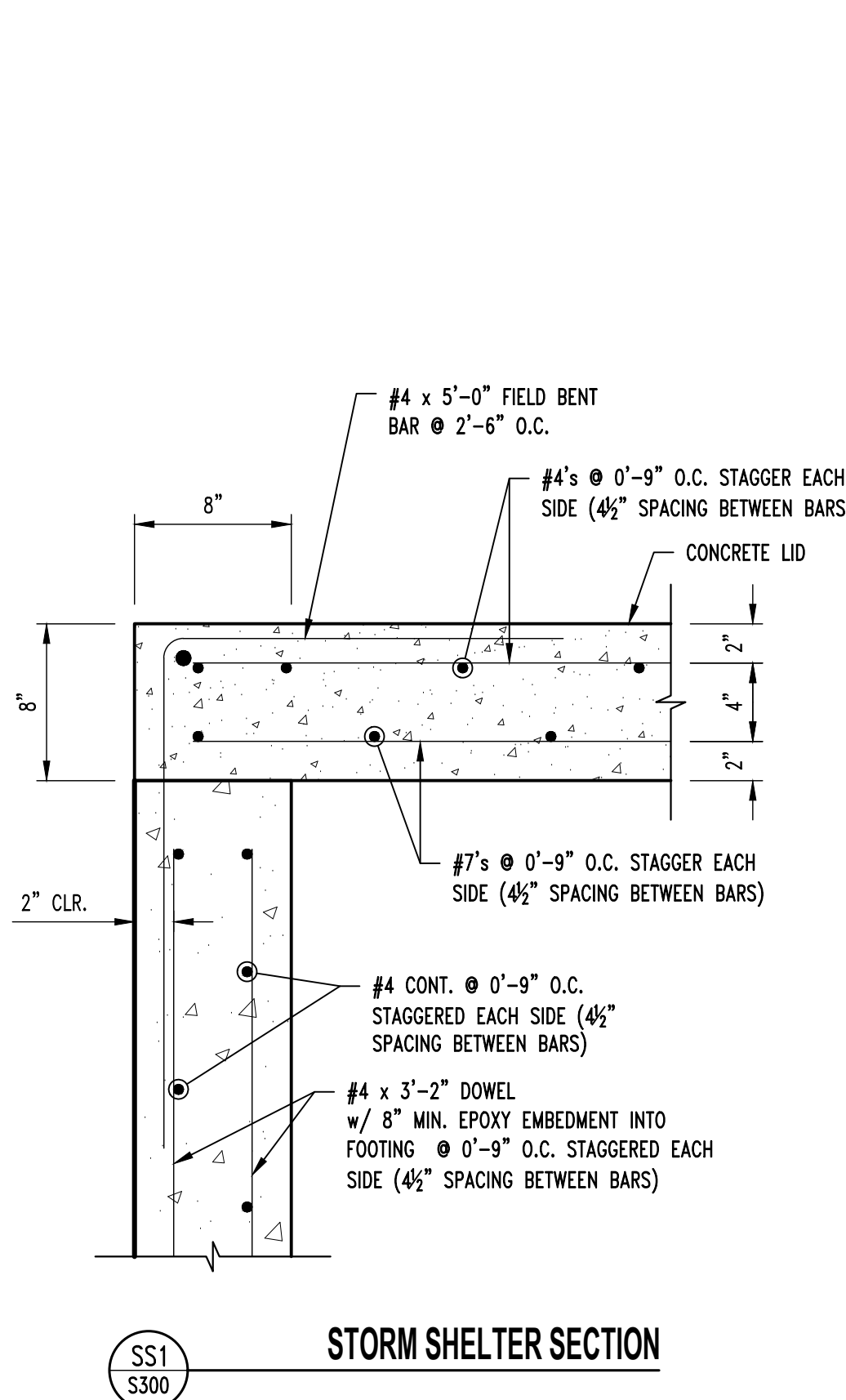
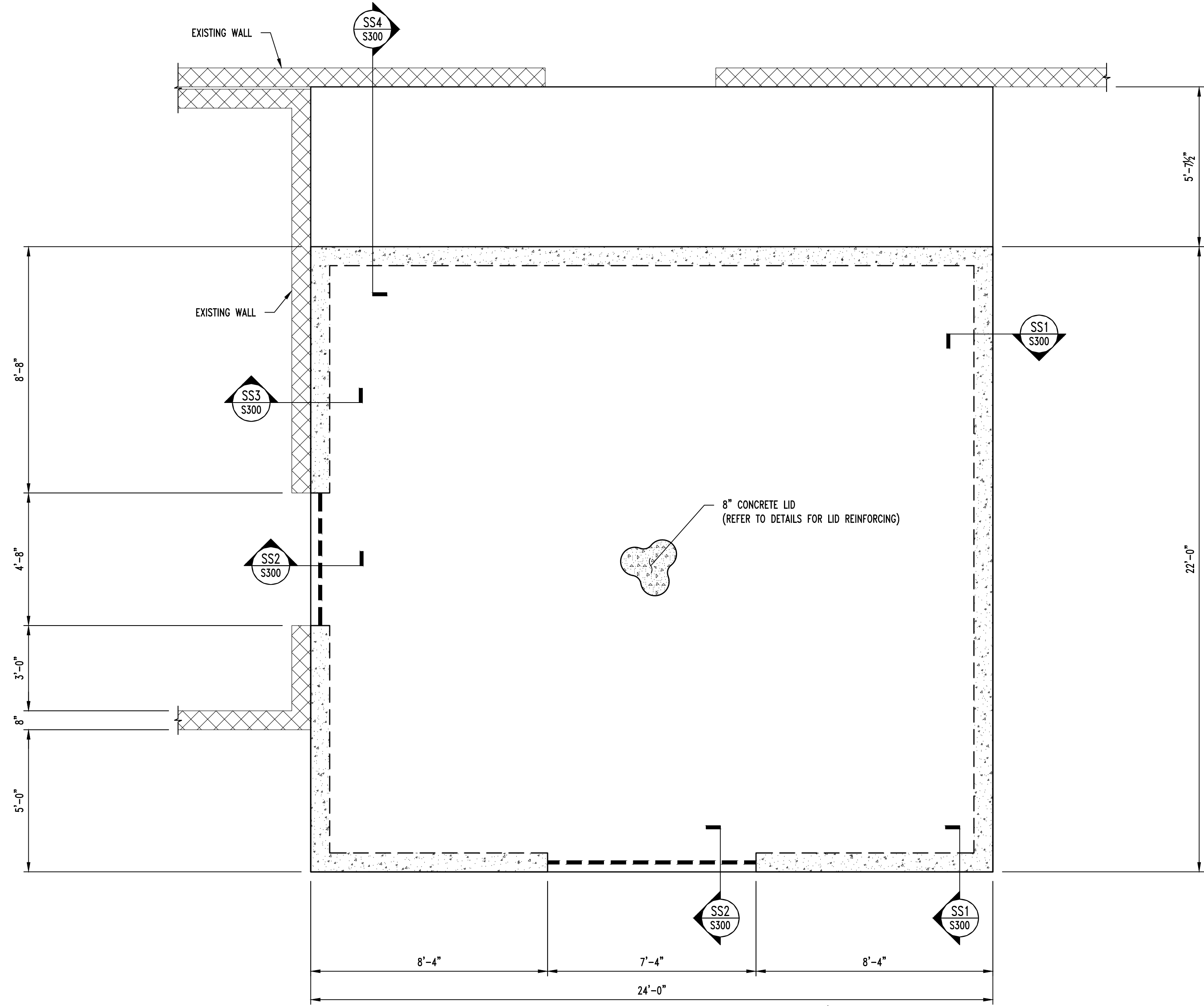
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STRUCTURAL
DATA

SHEET NUMBER:

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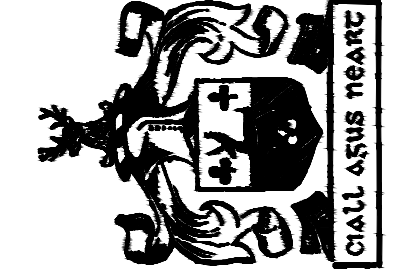
6 OF 10 SHEETS
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NOTE:
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 EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE
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OFFICE OF
 ADMINISTRATION
 DIVISION OF FACILITIES
 MANAGEMENT, DESIGN
 AND CONSTRUCTION

MISSOURI ARMY
 NATIONAL GUARD

RENOVATE USPFO VAULT

USPFO DEPLOYMENT
 STORAGE WAREHOUSE
 7001 RANGE ROAD

IKE SKELTON TRAINING SITE
 2302 MILITARY DRIVE
 JEFFERSON CITY, MO 65101

PROJECT No. T2226-01
 SITE No. 6300
 ASSET No. 8136300015

REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 ISSUE DATE: 07/20/2023

CAD DWG FILE: _____

DRAWN BY: JCS
 CHECKED BY: JWV
 DESIGNED BY: JWV

SHEET TITLE:
**ROOF PLAN &
 DETAILS**

SHEET NUMBER:

S-300

8 OF 10 SHEETS
 ISSUE DATE: 07/20/2023

ELECTRICAL PLAN SYMBOL LEGEND

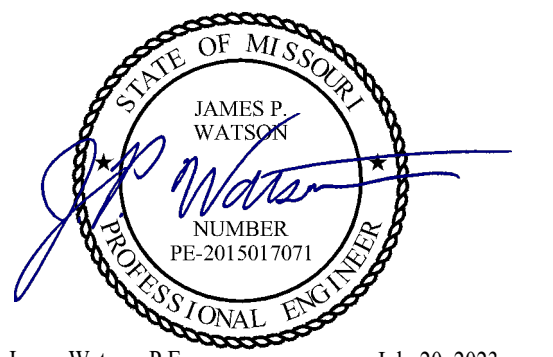
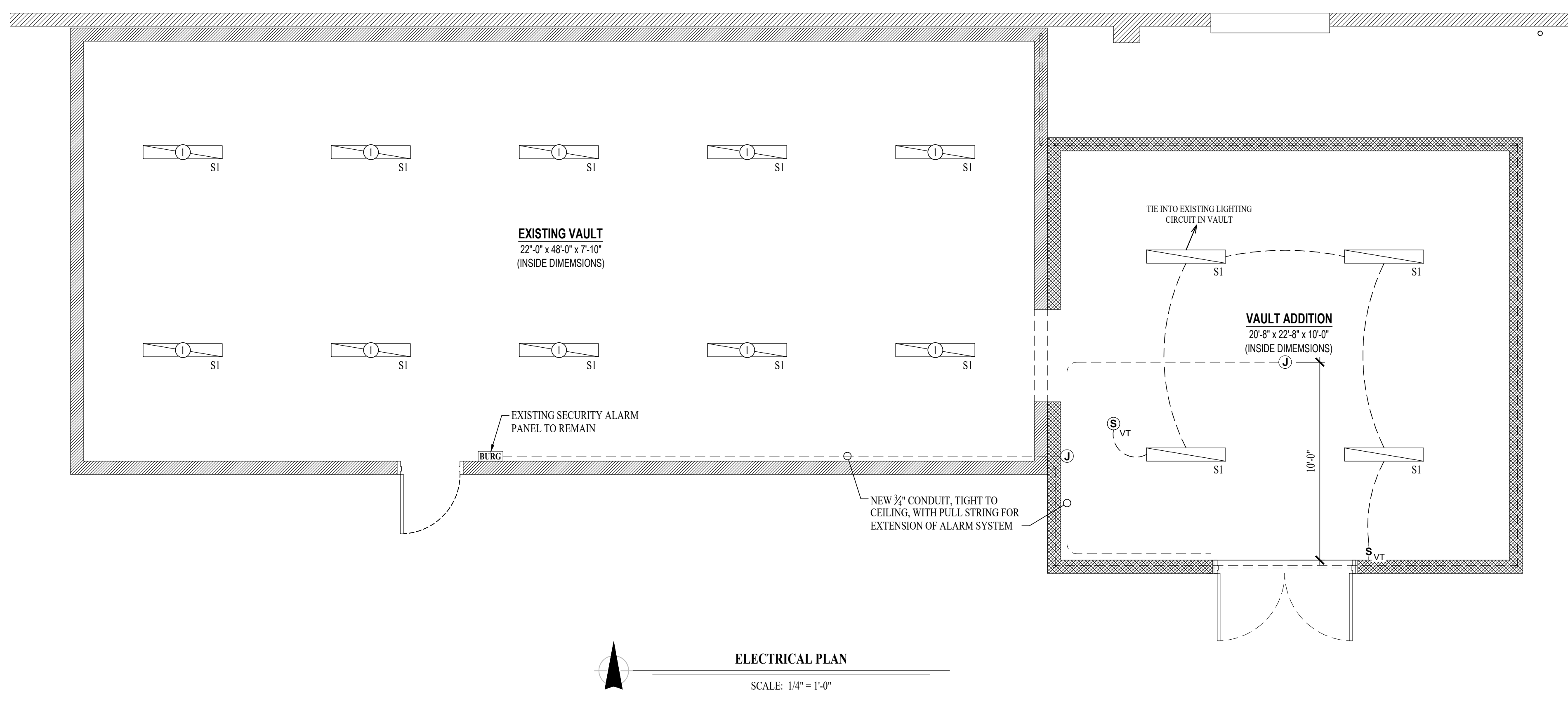
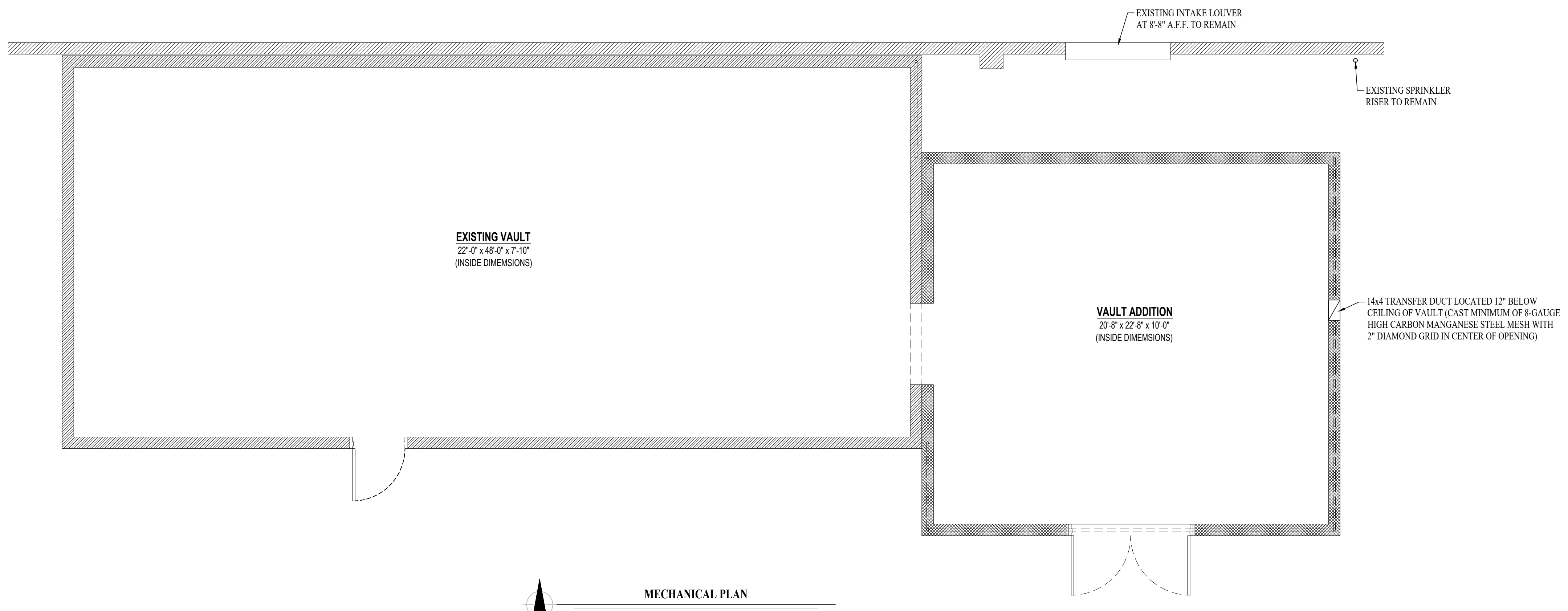
- XI ← "XI" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- ← LIGHTING FIXTURE
- EM ← "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL ← "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - OP = PASSIVE INFRARED OCCUPANCY SENSOR
 - OU = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
- SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- OCCUPANCY SENSOR**
 - AUTO FULL-ON (OR 50% IF NOTED)
 - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
 - WITH MANUAL OVERRIDE CONTROL (IF NOTED)
- VACANCY SENSOR**
 - MANUAL FULL-ON
 - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
 - WITH MANUAL OVERRIDE CONTROL (IF NOTED)

ELECTRICAL PLAN GENERAL NOTES:

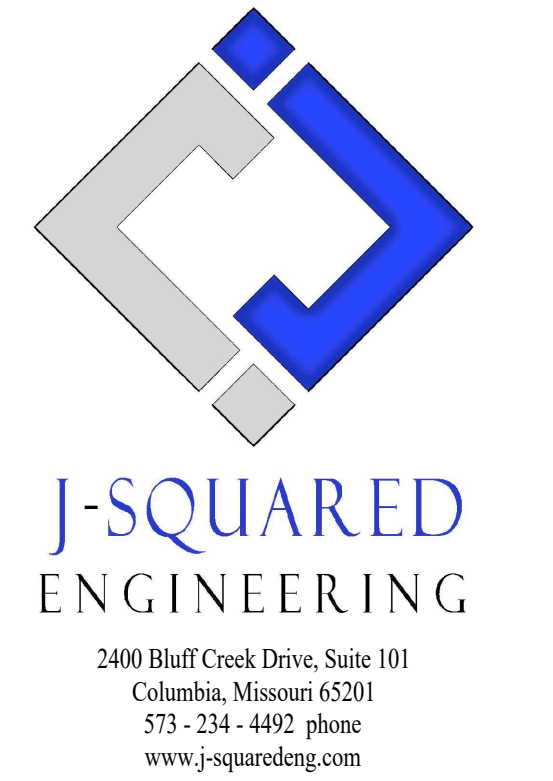
1. SEE SHEET ME-501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.

ELECTRICAL PLAN KEY NOTES:

- ① REPLACE EXISTING FLUORESCENT FIXTURE WITH NEW LED FIXTURE AS INDICATED. EXISTING SWITCHING & CIRCUIT TO REMAIN.



James Watson, P.E. July 20, 2023
PE-2015017071
MO Certificate of Authority # 2018029680



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CAD DWG FILE: J20830
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

SHEET TITLE:

**MECHANICAL &
ELECTRICAL
PLANS**

SHEET NUMBER:

ME-101

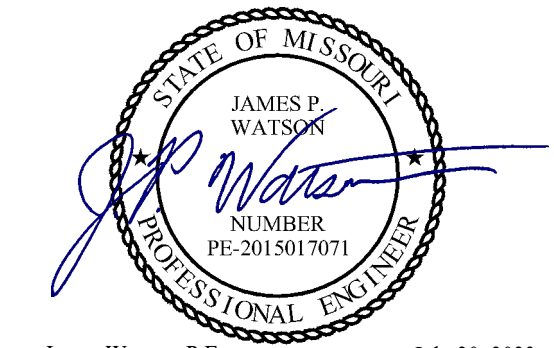
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ISSUE DATE: 07/20/2023

ELECTRICAL SPECIFICATIONS

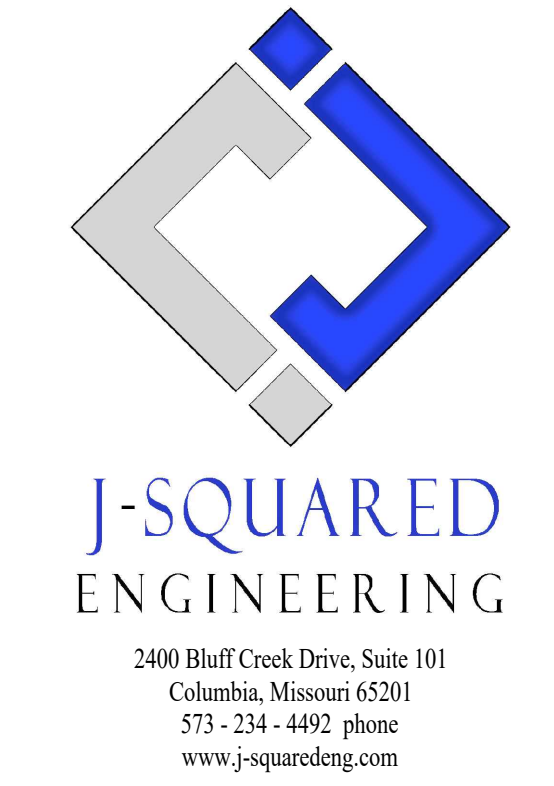
1. GENERAL
 - 1.1. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
2. MATERIALS
 - 2.1. CONDUIT & CONDUCTORS
 - 2.1.1. ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED OTHERWISE.
 - 2.1.2. BELOW GRADE CONDUCTORS SHALL BE XHHW-2.
 - 2.1.3. MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
 - 2.1.4. SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR BELOW GRADE INSTALLATIONS

LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
S1	METALUX	4SNLED-LDS-SSH-UNV-L83S-CD1-U	# LINEAR	WALL BRACKET	8471	3500	80	UNV	62	
NOTES: 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION										

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



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SHEET TITLE:
**MECHANICAL &
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DETAILS &
SCHEDULES**

SHEET NUMBER:

ME-501

10 OF 10 SHEETS
ISSUE DATE: 07/20/2023