

Dane County Jail Consolidation Courthouse Electrical Vault Relocation

215 S. Hamilton Street
Madison, WI 53703

Dane County Public Works
Project No.: 320012

Mead & Hunt Project No.:
4215400-161957.01

Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

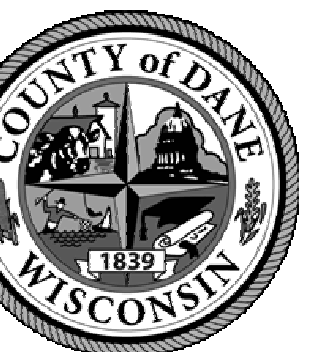
**Potter
Lawson**

Success by Design

OTIE
An Otis PLC Group Company

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DANE COUNTY DEPT. OF
PUBLIC WORKS, HIGHWAY &
TRANSPORTATION
1919 ALLIANT ENERGY
CENTER WAY
MADISON, WI 53713
PROJECT NO. 320012

Dane County Jail Consolidation
Courthouse Electrical Vault Relocation

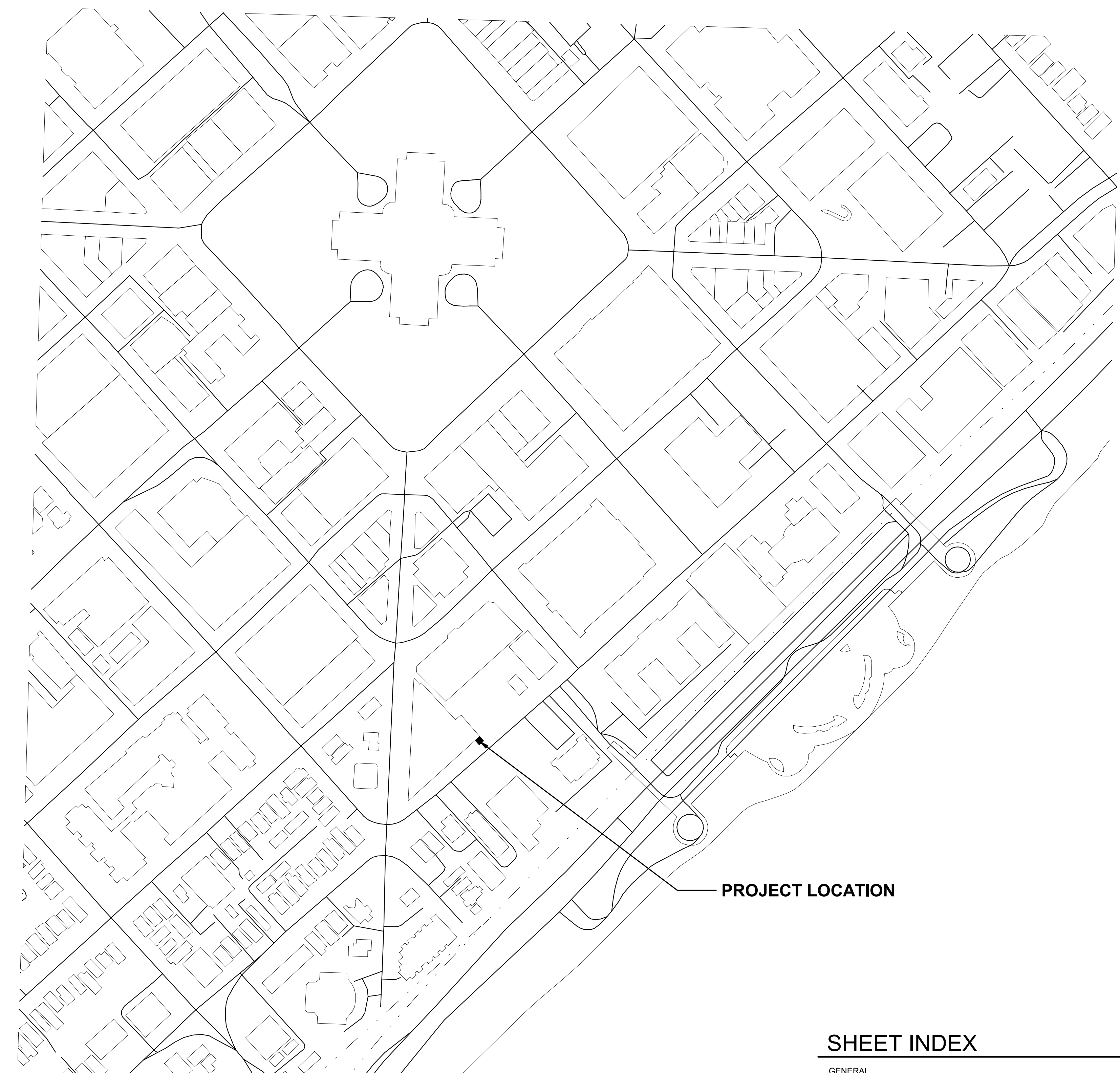
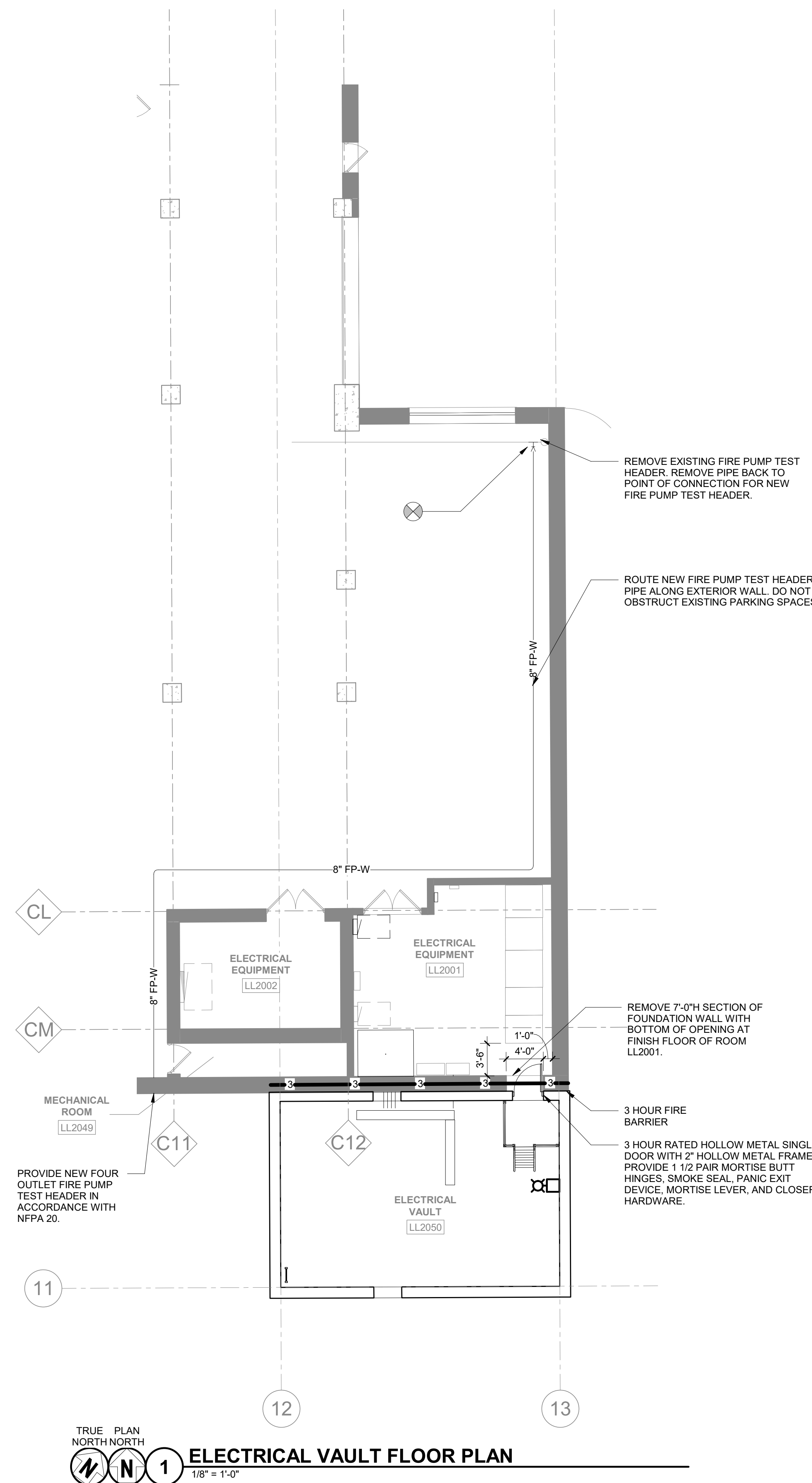
215 S. Hamilton Street
Madison, WI 53703

ISSUED
05/07/2020 ISSUED FOR
BID/PERMIT

MSH NO: 4215400-161957.01
DATE: 05/07/2020
DESIGNED BY: -
DRAWN BY: -
CHECKED BY: -
DO NOT SCALE DRAWINGS

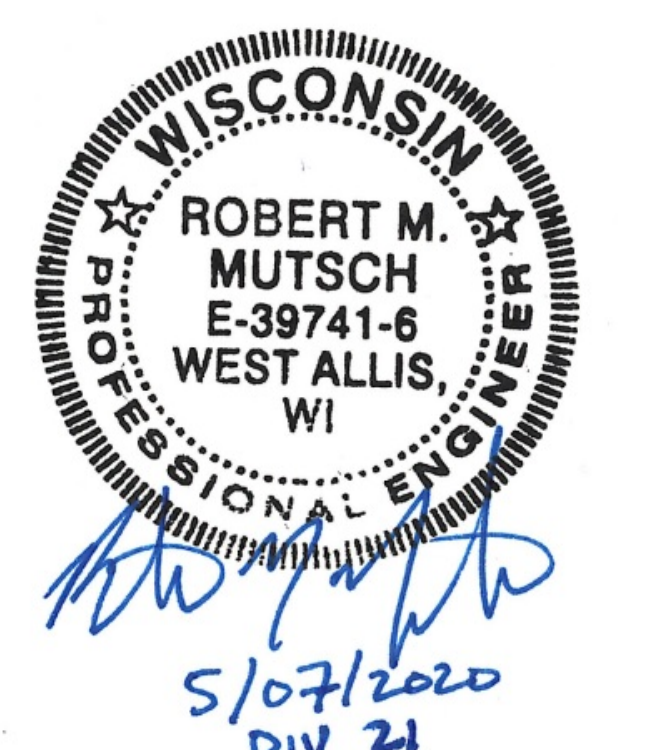
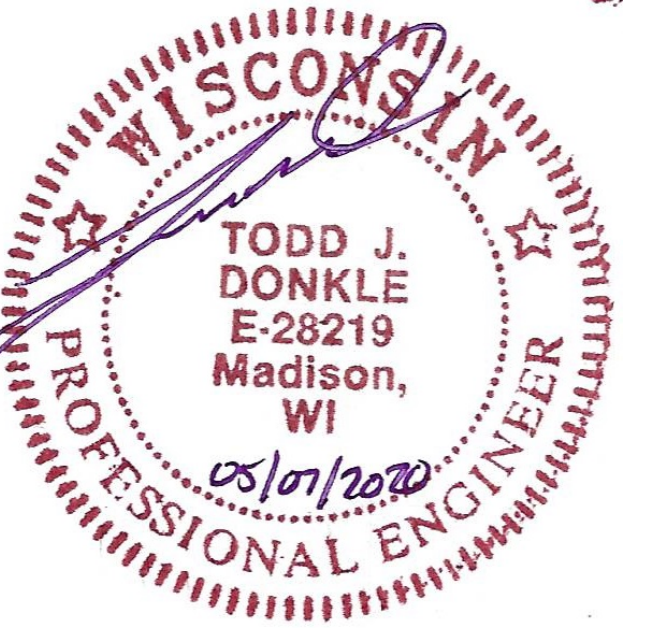
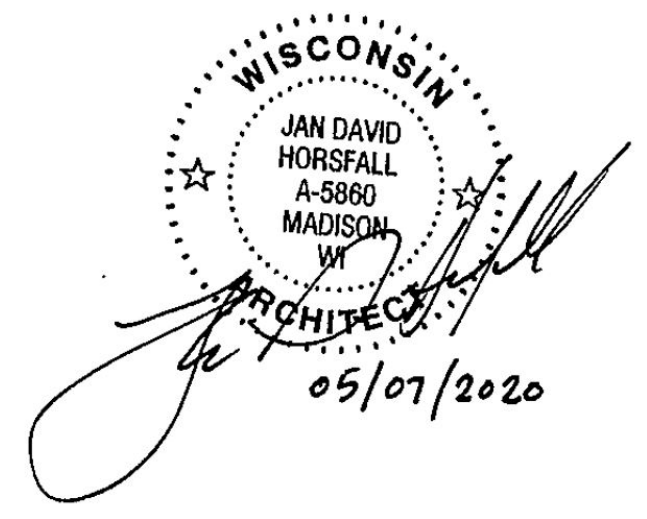
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G001

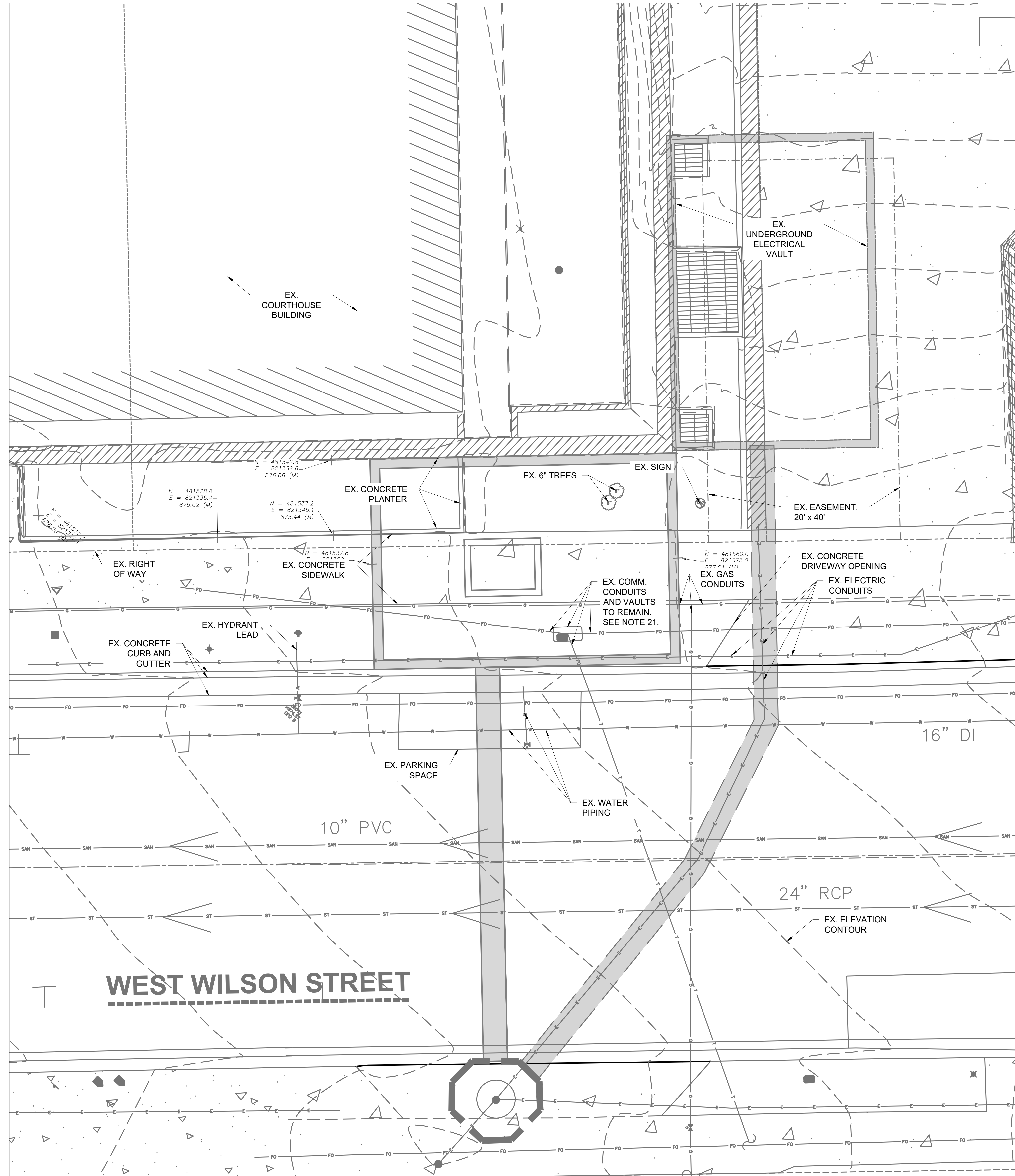


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1
C101

EXISTING CONDITION OF UTILITIES
SCALE: 1"=5'

GENERAL NOTES:

1. SURVEY CONDUCTED AND PRODUCED BY JSD PROFESSIONAL SERVICES, INC.
2. CONFORM TO CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
3. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE FEDERAL AND LOCAL LAWS, CODES, AND ORDINANCES.
4. THE LOCATIONS OF COVERED SLABS, ASPHALT CONCRETE PAVEMENTS, PIPES, UNDERGROUND STRUCTURES, OR OTHER UTILITIES SHOWN ON THESE PLANS ARE BASED ON VISIBLE FEATURES ON THE GROUND OR AVAILABLE DRAWINGS PROVIDED BY OTHERS; THEREFORE, THEY ARE APPROXIMATE. VERIFY THE TYPE OF MATERIALS, EXACT LOCATION, SIZE AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF WORK.
5. RESTORE TO ORIGINAL CONDITION EXISTING ASPHALT CONCRETE PAVEMENT, CEMENTITIOUS CONCRETE PAVEMENT, CONCRETE WALKS, LANDSCAPED AREAS, AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED DURING CONSTRUCTION.
6. PROTECT EXISTING UTILITIES, VALVE BOXES, AND MANHOLES, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, AFFECTED BY TRENCHING WORK. IF DISTURBED, RESTORE TO ORIGINAL CONDITION.
7. VERIFY THE LOCATIONS, SIZES, AND MATERIALS OF PROPOSED CONNECTIONS TO EXISTING UTILITIES. EXERCISE EXTREME CAUTION DURING EXCAVATION ACTIVITIES IN THESE LOCATIONS.
8. CONDUCT CONSTRUCTION OPERATIONS WITH MINIMAL INTERFERENCE TO ROADS, DRIVEWAYS, PARKING AREAS, SIDEWALKS, AND OTHER PEDESTRIAN AND VEHICULAR FACILITIES. PROVIDE CONTINUOUS TRAFFIC FLOW IN ALL DIRECTIONS AT ALL TIMES.
9. REVIEW THE PLANS AND NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND BEFORE PROCEEDING WITH THE WORK.
10. COORDINATE AND OBTAIN CLEARANCES AND PERMITS FROM THE CITY OF MADISON DEPARTMENT OF PUBLIC WORKS PRIOR TO EXCAVATION ACTIVITIES.
11. PROTECT EXISTING SURVEY MONUMENTS. REPORT DAMAGED SURVEY MONUMENTS. RESTORE AND REPAIR DISTURBED SURVEY MONUMENTS.
12. MINIMIZE DISRUPTION OF UTILITY SERVICES. THE OWNER SHALL IMPROVE IN ADVANCE ANY SERVICE INTERRUPTIONS AND THE REMOVAL OF EXISTING UTILITY LINES. PROVIDE WRITTEN NOTIFICATION TO OWNER 72 HOURS IN ADVANCE OF INTERRUPTIONS OF SERVICE. MAXIMUM UTILITY OUTAGE FOR ANY ONE (1) INTERRUPTION SHALL NOT EXCEED FOUR (4) HOURS PER DAY.
13. RESTORE UNPAVED AREAS DISTURBED DURING CONSTRUCTION BY SODDING.
14. PROVIDE TEMPORARY CONNECTION TO EXISTING LINES AS REQUIRED TO MINIMIZE UTILITY SERVICE INTERRUPTIONS BEFORE THE REMOVAL OF ANY PORTION OF EXISTING LINES.
15. PROVIDE TEMPORARY ACCESS PROTECTION FOR EQUIPMENT, TRUCKS OR OTHER CONSTRUCTION VEHICLES TO PREVENT ANY DAMAGE TO EXISTING AND/OR NEWLY INSTALLED CONCRETE SIDEWALKS, CURBS, AND PAVING.
16. ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND AVOID PONDING CONDITIONS ANYWHERE ON SITE. DIRECT STORM WATER TO STORM WATER CONVEYANCE STRUCTURES.
17. DUE TO VARIATIONS AND CONSTRAINTS, DETERMINE EACH UTILITY TIE IN LAYOUT BY ITS ACTUAL FIELD CONDITIONS. CHANGES TO THE DESIGN CONFIGURATION REQUIRE APPROVAL OF THE ARCHITECT/ENGINEER AND DOCUMENTATION ON THE AS-BUILT DRAWINGS.
18. EXERCISE EXTREME CAUTION IN EXCAVATING AREAS THAT ARE KNOWN TO HAVE UNDERGROUND UTILITIES. HAND EXCAVATE WITHIN 3 FEET OF ANY EXISTING UTILITIES. IN CASES WHERE THE DEPTH OR ELEVATION ARE NOT INDICATED ON THE PLANS, PROCEED WITH CAUTION.
19. PROVIDE SHORING FOR TRENCH EXCAVATION WORK THAT EXCEEDS 4 FEET IN DEPTH.
20. PRESERVE AND PROTECT ALL EXISTING TREES AND PLANT MATERIALS NOT IDENTIFIED ON THE PLANS FOR REMOVAL OR RELOCATION. IF PROPOSED IMPROVEMENTS MAY NEGATIVELY AFFECT THE MAJOR ROOT SYSTEMS, OBTAIN APPROVAL OF THE ARCHITECT/ENGINEER TO REMOVE OR RELOCATE THE EXISTING TREE OR PLANT MATERIAL.
21. THE EXISTING COMMUNICATIONS VAULT IS TO REMAIN IN PLACE AND IN SERVICE AT ALL TIMES. THE CONTRACTOR IS TO PROVIDE PLANS FOR PROPOSED FIBER OPTIC SUPPORT AND PROTECTION. THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT AND PROTECTION OF THE EXISTING FIBER OPTIC CABLES AND OR DUCTS FOR THE DURATION OF THE PROJECT. ANY COSTS ASSOCIATED WITH THE DAMAGE AND REPAIR OF THE FIBER OPTIC CABLES AND VAULT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

STANDARD COMMENTS FOR VAULTS IN PUBLIC RIGHT-OF-WAY:

1. OWNER SHALL CONTACT DIGGERS HOTLINE PRIOR TO DOING ANY EXCAVATION FOR MODIFICATION OR REPAIR OF THE VAULT.
2. DESIGN OF ANY REPAIR OR MODIFICATION SHALL BE COMPLETED BY A REGISTERED PROFESSIONAL ENGINEER.
3. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE BUILDING CODES AND ORDINANCES AND GENERAL DESIGN STANDARDS.
4. OWNER SHALL INSPECT THE CONDITION OF THE VAULT AND COVER REGULARLY AND SHALL BE RESPONSIBLE FOR ITS REPAIR AS NEEDED TO MAINTAIN THE VAULT AND COVER IN A SAFE CONDITION.
5. OWNER SHALL BE RESPONSIBLE FOR ANY WATER DAMAGE THAT OCCURS IN THE VAULT OR IN AREAS ADJACENT TO THE VAULT REGARDLESS OF THE CAUSE OF THE WATER INFILTRATION.
6. OWNER SHALL OBTAIN A STREET EXCAVATION PERMIT PRIOR TO DOING ANY REPAIR WORK THAT INVOLVES EXCAVATION WITHIN THE PUBLIC RIGHT OF WAY.
7. OWNER SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES TO THE VAULT INCLUDING DAMAGE TO ANY WATER PROOFING MEMBRANES OR OTHER FEATURES REGARDLESS OF WHO CAUSED THE DAMAGE.
8. OWNER SHALL PROVIDE A SIGNED AND SEALED PLAT OF SURVEY AND LEGAL DESCRIPTION BY A PROFESSIONAL LAND SURVEYOR COMPLIANT WITH CHAPTER A-E 7 OF THE WISCONSIN ADMINISTRATIVE CODE SHOWING THE IMPROVEMENTS WITH A FULLY DIMENSIONED AND LEGALLY DESCRIBED PERIMETRICAL BOUNDARY OF THE ENCROACHMENT AREA REFERENCED TO THE DANE COUNTY COORDINATE SYSTEM TIED TO A QUARTER SECTION LINE AS REQUIRED BY CHAPTER 236 OF THE WISCONSIN STATUTES. THE MAP AND LEGAL DESCRIPTION SHALL ALSO DEFINE AND DESCRIBE THE THREE DIMENSIONAL LOCATION OF THE UPPER AND LOWER LIMITS OF THE IMPROVEMENTS. ALL VERTICAL LOCATIONS SHALL BE REFERENCED TO THE NAVD 88 (91) DATUM.

UTILITY COORDINATION INFORMATION:

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GAS & ELECTRIC:

MADISON GAS & ELECTRIC
133 S. BLAIR ST.
MADISON, WI

WATER:

MADISON WATER UTILITY
523 E. MAIN ST.
MADISON, WI

INTERNET & COMMUNICATIONS:

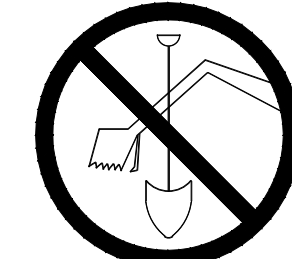
CENTURYLINK
10 E. DOTY ST.
MADISON, WI

CHARTER COMMUNICATIONS ADMINISTRATION
2701 DANIELS STREET
MADISON, WI

PUBLIC WORKS (ROADS, SIDEWALK, TERRACE, LANDSCAPING, SANITARY, STORM):

CITY OF MADISON DEPARTMENT OF PUBLIC WORKS
211 S. CARROLL ST.
MADISON, WI 53703

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

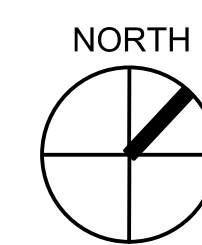
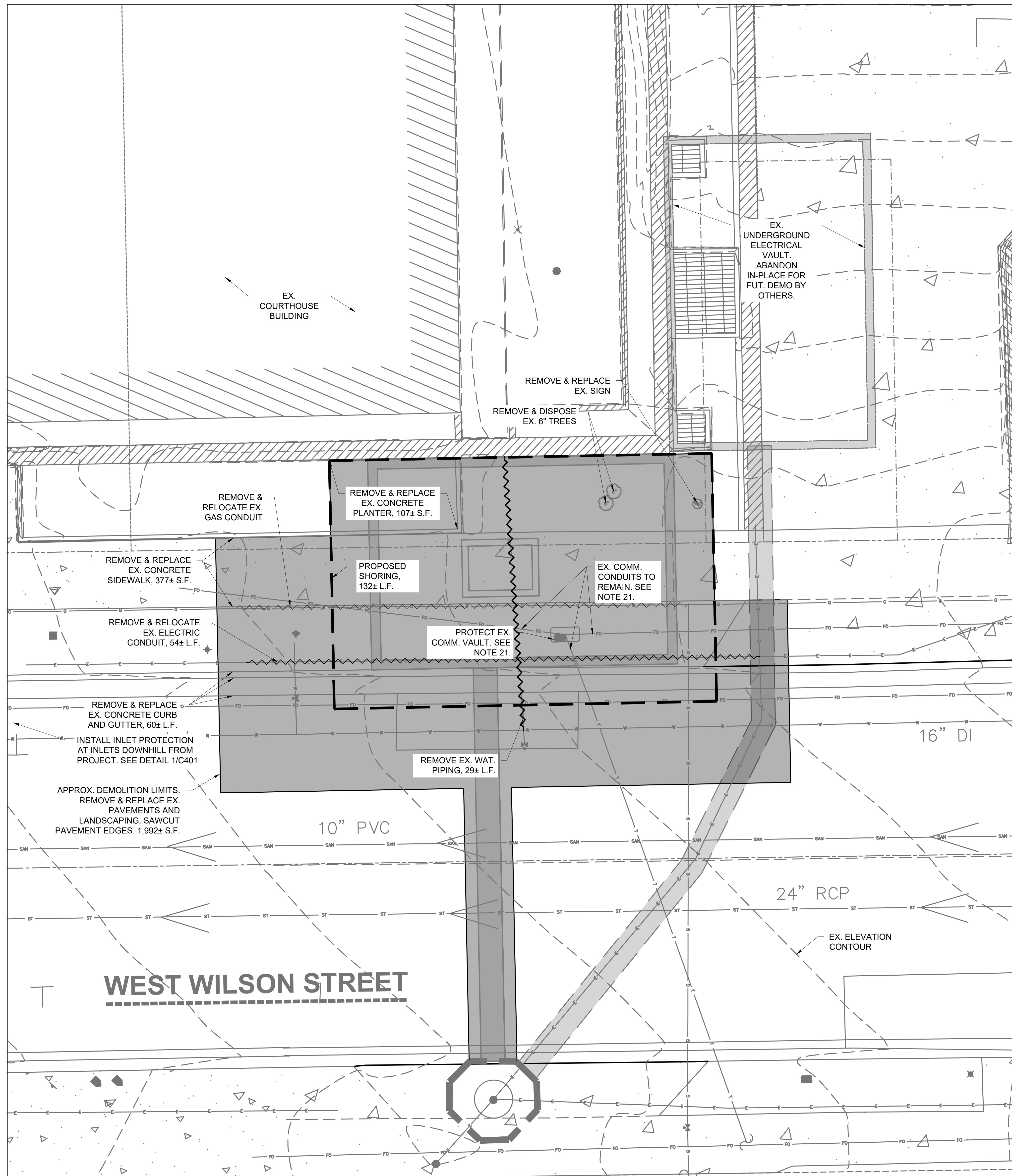


CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

WIS STATUTE 192.0175(1974)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

ATTENTION:
ALL UTILITY LOCATIONS ARE SHOWN FROM FIELD OBSERVATION BASED UPON LOCATES AND/OR INFORMATION RECEIVED FROM OTHER SURVEYS AND VARIOUS UTILITY COMPANIES. BEFORE THE START OF ANY EXCAVATION, A COMPLETE LOCATE OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA SHOULD BE COMPLETED.





1
C201

PROPOSED UTILITIES DEMOLITION PLAN
SCALE: 1"=5'

1. SURVEY CONDUCTED AND PRODUCED BY JSD PROFESSIONAL SERVICES, INC.
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5. RESTORE TO ORIGINAL CONDITION EXISTING ASPHALT CONCRETE PAVEMENT, CEMENTITIOUS CONCRETE PAVEMENT, CONCRETE WALKS, LANDSCAPED AREAS, AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED DURING CONSTRUCTION.
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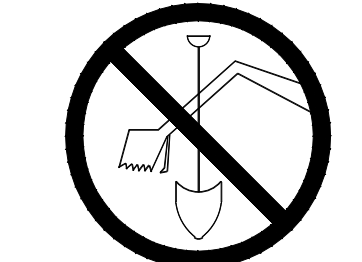
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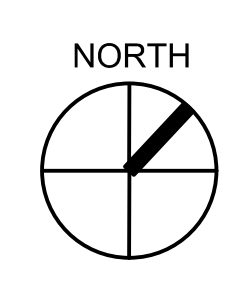
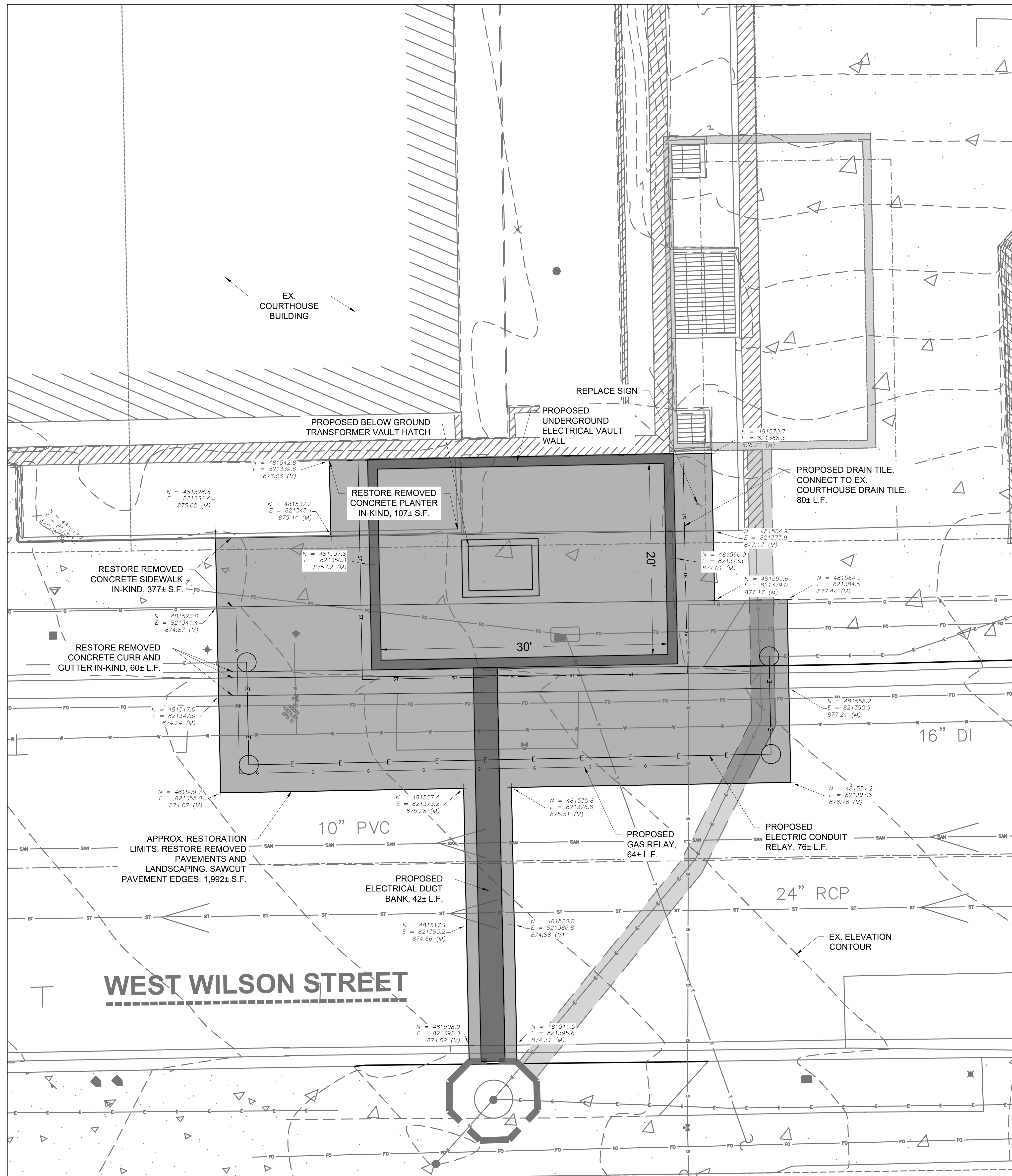
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1
C301

PROPOSED UTILITIES RELAY PLAN
SCALE: 1"=5'

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5. OWNER SHALL BE RESPONSIBLE FOR ANY WATER DAMAGE THAT OCCURS IN THE VAULT OR IN AREAS ADJACENT TO THE VAULT REGARDLESS OF THE CAUSE OF THE WATER INFILTRATION.
6. OWNER SHALL OBTAIN A STREET EXCAVATION PERMIT PRIOR TO DOING ANY REPAIR WORK THAT INVOLVES EXCAVATION WITHIN THE PUBLIC RIGHT OF WAY.
7. OWNER SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGES TO THE VAULT INCLUDING DAMAGE TO ANY WATER PROOFING MEMBRANES OR OTHER FEATURES REGARDLESS OF WHO CAUSED THE DAMAGE.
8. OWNER SHALL PROVIDE A SIGNED AND SEALED PLAT OF SURVEY AND LEGAL DESCRIPTION BY A PROFESSIONAL LAND SURVEYOR COMPLIANT WITH CHAPTER A-E 7 OF THE WISCONSIN ADMINISTRATIVE CODE SHOWING THE IMPROVEMENTS WITH A FULLY DIMENSIONED AND LEGALLY DESCRIBED PERIMETRICAL BOUNDARY OF THE ENCROACHMENT AREA REFERENCED TO THE DANE COUNTY COORDINATE SYSTEM TIED TO A QUARTER SECTION LINE AS REQUIRED BY CHAPTER 236 OF THE WISCONSIN STATUTES. THE MAP AND LEGAL DESCRIPTION SHALL ALSO DEFINE AND DESCRIBE THE THREE DIMENSIONAL LOCATION OF THE UPPER AND LOWER LIMITS OF THE IMPROVEMENTS. ALL VERTICAL LOCATIONS SHALL BE REFERENCED TO THE NAVD 88 (91) DATUM.

UTILITY COORDINATION INFORMATION:

THESE DOCUMENTS ARE PRESENTED AS CONCEPTUAL EXHIBITS IN ORDER TO CONVEY PROJECT INTENT. CONTRACTOR SHALL COORDINATE WITH ALL PRIVATE AND PUBLIC UTILITIES TO ASCERTAIN EACH UTILITY'S DESIRED DEMOLITION AND RELAY.

GAS & ELECTRIC:

MADISON GAS & ELECTRIC
133 S. BLAIR ST.
MADISON, WI

WATER:

MADISON WATER UTILITY
523 E. MAIN ST.
MADISON, WI

INTERNET & COMMUNICATIONS:

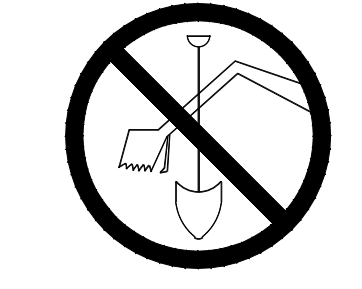
CENTURYLINK
10 E. DOTY ST.
MADISON, WI

CHARTER COMMUNICATIONS ADMINISTRATION
2701 DANIELS STREET
MADISON, WI

PUBLIC WORKS (ROADS, SIDEWALK, TERRACE, LANDSCAPING, SANITARY, STORM):

CITY OF MADISON DEPARTMENT OF PUBLIC WORKS
211 S. CARROLL ST.
MADISON, WI 53703

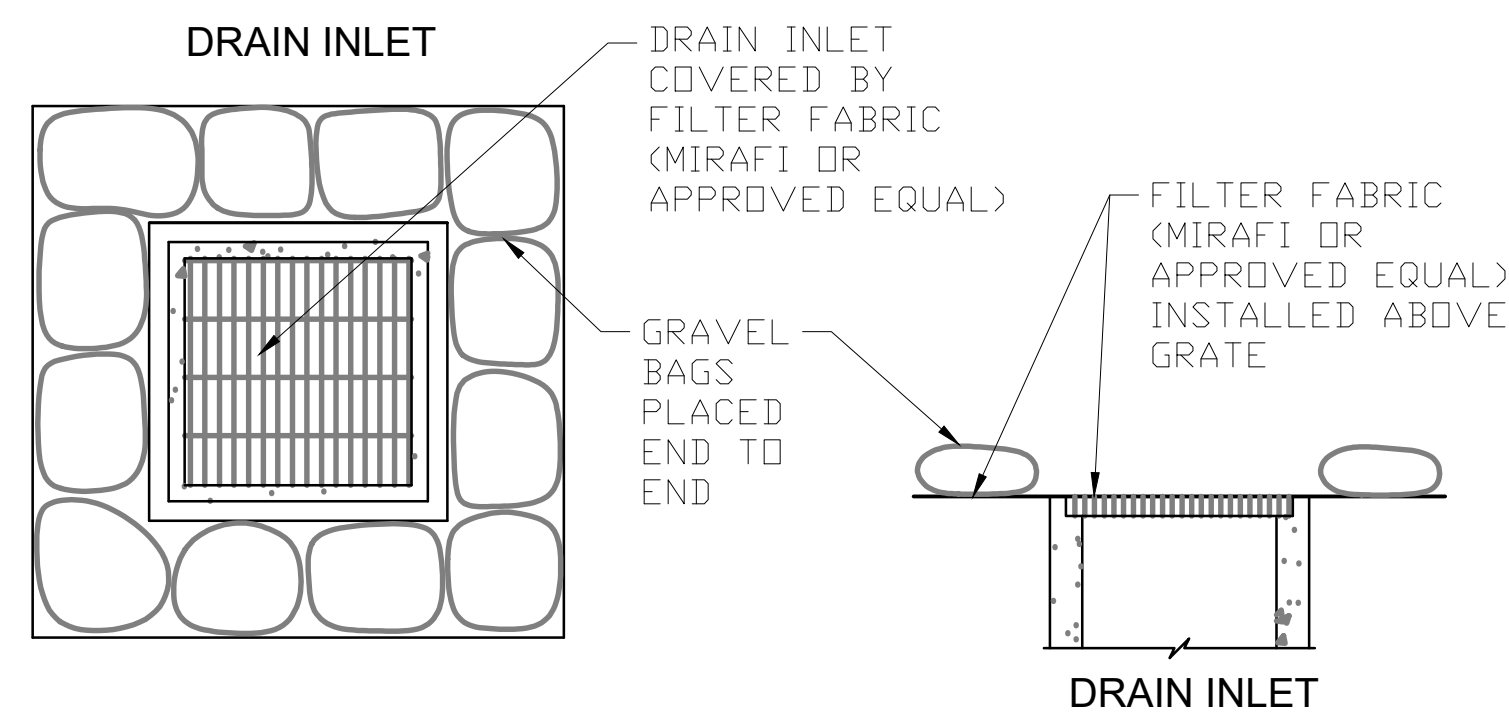
TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS STATUTE 182.0175(1974)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

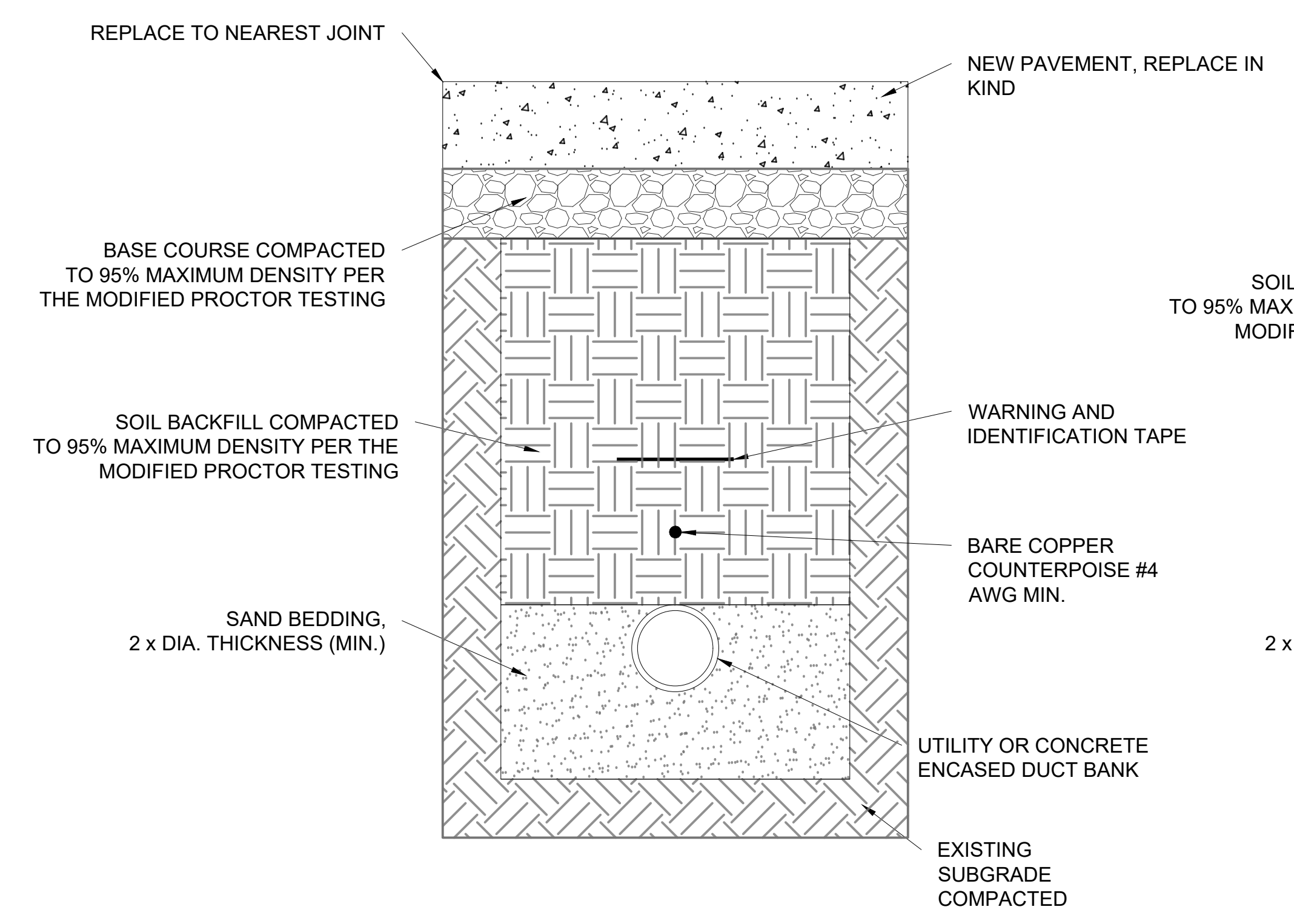
ATTENTION:
ALL UTILITY LOCATIONS ARE SHOWN FROM FIELD OBSERVATION BASED UPON LOCATES AND/OR INFORMATION RECEIVED FROM OTHER SURVEYS AND VARIOUS UTILITY COMPANIES. BEFORE THE START OF ANY EXCAVATION, A COMPLETE LOCATE OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA SHOULD BE COMPLETED.



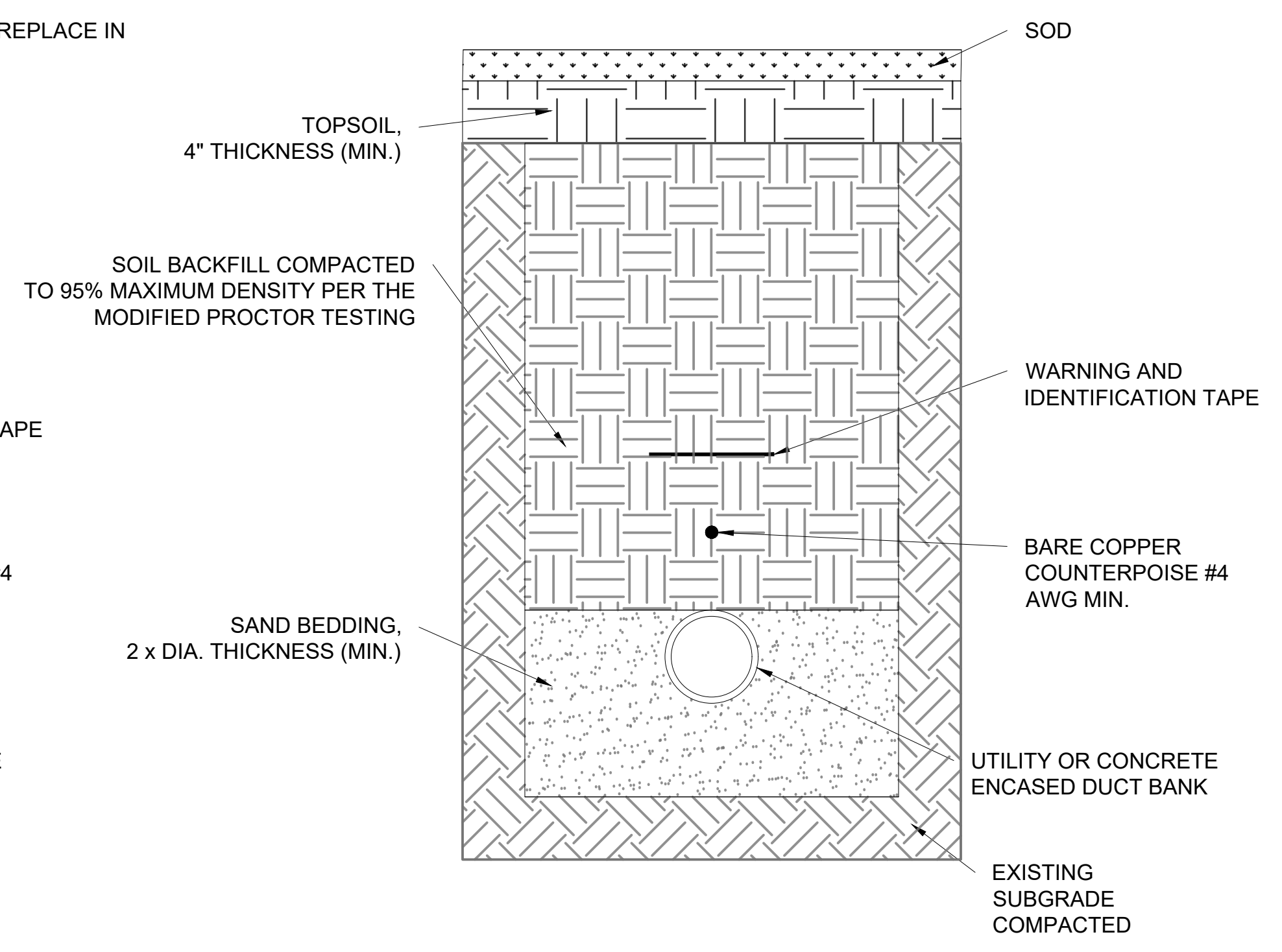


NOTE:
PLACE FILTER FABRIC TO LIMIT THE NUMBER OF GRAVEL BAGS.

1
C401 TEMPORARY INLET PROTECTION
NTS



2A
C401 ASPHALT OR CONCRETE PAVEMENT
SURFACE CONDITION
NTS



2B
C401 TURF SURFACE CONDITION
NTS

2
C401 TYPICAL TRENCH EXCAVATION CROSS-SECTIONS
NTS

STRUCTURAL DESIGN CRITERIA

- THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.
- GOVERNING BUILDING CODE: 2015 IBC AS AMENDED BY THE STATE OF WISCONSIN.
- DESIGN LOADS

VAULT LID TRUCK PINK LIVE LOAD	
HS20 TRUCK AXEL LOAD (FIRE TRUCK)	32,000 lbs
TIRE PRESSURE	95 psf
VAULT LID LIVE LOAD	
LIVE LOAD	100 psf
VAULT LID SNOW LOAD	
GROUND SNOW (Pg)	50 psf
SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
SNOW LOAD EXPOSURE FACTOR (Ce)	1.0
ROOF THERMAL LOAD FACTOR (Ci) AT BUILDING	1.1
BASE ROOF SNOW LOAD AT BUILDING	46.2 psf
WIND LOADS	
BASIC WIND SPEED	90 mph
BUILDING OCCUPANCY CATEGORY	I
WIND LOAD IMPORTANCE FACTOR (Iw)	1.0
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	-0.18
MAIN WIND FORCE - RESISTING SYSTEM:	
SEISMIC LOADS	
SEISMIC USE GROUP / OCCUPANCY CATEGORY	II
SEISMIC IMPORTANCE FACTOR (Ie)	1.0
SEISMIC SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENT (S _{ds})	0.048
SPECTRAL RESPONSE COEFFICIENT (S _{d1})	0.032
SEISMIC DESIGN CATEGORY	A
BASIC SEISMIC FORCE RESISTING SYSTEM:	
BEARING WALL SYSTEM	
LIGHT FRAMED WALL SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE:	
R = 6.5 D _o = 3.0 C _d = 4.0	
ANALYSIS PROCEDURE:	
EQUIVALENT LATERAL FORCE PROCEDURE:	
- FOUNDATIONS AND EARTHWORK

ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS	4,000 psf
--	-----------
- CONCRETE

MINIMUM 28 DAY COMPRESSIVE STRENGTH (f _c)	4,000 psi
FOOTINGS	4,000 psi
PIERS, WALLS	4,000 psi
SLAB-ON-GRADE (INTERIOR)	3,500 psi
SLAB-ON-GRADE (EXTERIOR)	4,500 psi
COVER ON MILD STEEL REINFORCEMENT	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#5 BARS AND SMALLER	1 1/2"
#6 BARS AND LARGER	2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	1"
CONCRETE REINFORCEMENT YIELD STRENGTH (F _y)	
ALL DEFORMED MILD STEEL	60,000 psi
WELDED WIRE FABRIC	65,000 psi
- STRUCTURAL STEEL

STRUCTURAL STEEL YIELD STRENGTH (F _y)	
TUBES	46,000 psi
WF BEAMS	50,000 psi
WF COLUMNS	50,000 psi
BOLTS FOR STANDARD FRAME CONNECTIONS	3/4" DIAMETER A325
BOLTS FOR SINGLE SHEAR TAB CONNECTIONS	3/4" DIAMETER A325
ANCHOR RODS	F1554
WELDING ELECTRODES	E70
- MISCELLANEOUS

VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL NOTES

- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.
- NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
- WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE AE FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

FOUNDATION NOTES

- GEOTECHNICAL INFORMATION TAKEN FROM THE TESTING AND ANALYSIS OF COMPACTED FILL MATERIAL.
- THE CONTRACTOR SHALL RETAIN A SOILS ENGINEERING FIRM TO MONITOR PROPER SUBGRADE PREPARATIONS AND
- CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BEFORE FOUNDATION EXCAVATION IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ANY EXISTING FOUNDATIONS.
- BEFORE PLACING FOOTINGS, FOUNDATIONS, GRADE BEAMS, OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS AND THE DRAWINGS.
- REINFORCE ALL FOUNDATION WALLS AND FOOTINGS AS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- SEE SPECIFICATIONS FOR FREE DRAINING BACKFILL BENEATH ALL CONCRETE WALKS AND SLABS ADJACENT TO STRUCTURE.
- CONTRACTOR NOTE: THE BASE OF ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CARE SHOULD BE TAKEN DURING EXCAVATION AND CONSTRUCTION TO MINIMIZE DISTURBANCE OF THE BEARING SOILS. THE CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION TO PREVENT EXCESSIVE DRYING OR WETTING OF THE SOIL.

CONCRETE CONSTRUCTION NOTES

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION):
 - "ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
 - "ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
 - "ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
 - "ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
- SEE SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES.
- ALL CONCRETE REINFORCING STEEL IS TO BE ASTM A-615, GRADE 60 EPOXY COATED.
- PIPE SLEEVES OVER 1-1/2" INCHES IN DIAMETER WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 14 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
- ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
- PROVIDE SMOOTH TROWEL FINISH TYP UNO.
- PROVIDE HYDROPHILIC WATERSTOP SEALS AT ALL CONSTRUCTION JOINTS NOTED ON THE FRAMING.
- PROVIDE CRYSTALLINE ADMIXTURE TO ALL CONCRETE.

STRUCTURAL STEEL NOTES

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
- ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
- ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID AWS CERTIFICATES IN THE TYPE OF WELD REQUIRED.
- SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFICALLY DETAILED OTHERWISE.
- DESIGN IN ACCORDANCE WITH GUIDE DETAILS AND REACTIONS.
- USE A325N BOLTS UNLESS NOTED OTHERWISE.
- OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
- ALL BEAM COPEES MUST BE MADE TO A RADIUS (1" MINIMUM).
- ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE TRIMMED FLUSH AND GROUND SMOOTH AFTER WELD IS COMPLETED.
- ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE CURRENT AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED).
- CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
- INSTALL EXPANSION BOLTS IN ACCORDANCE WITH THE ICBG REPORT RECOMMENDATIONS.
- ALL ELEVATOR GUIDE BEAMS SHALL BE S8x18.4 UNLESS NOTED OTHERWISE. SLOPE TO MATCH BEAM SLOPE.
- STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

ABBREVIATION LIST

AB	ANCHOR BOLT (ROD)
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BRG	BEARING
BP(#)	BASE PLATE CALL-OUT
CF	COLD-FORMED
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR (DISTANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DEMOL	DEMOLITION / DEMOLISH
DIA	DIAMETER
DWG	DRAWING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EXP	EXPANSION
EXT	EXTERIOR
EXTG	EXISTING
FD	FLOOR DRAIN
FLR	FLOOR
FV	FIELD VERIFY
F(#)	FOOTING CALL-OUT
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GULUM	GULF LAMINATED BEAM(S)
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HWS	HEADED WELDED STUD(S)
IF	INSIDE FACE
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LAMINATED STRAND LUMBER
LTWT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NTS	NOT TO SCALE
OC	ON CENTER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PC	PRECAST / PRESTRESSED
PCI	POUNDS PER CUBIC INCH
PDF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PROJ	PROJECTION
PSF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRE (POST)-TENSIONED
PI(#)	PIER CALL-OUT
RD	ROOF DRAIN
REINF	REINFORCED(ING)
RTU	ROOF TOP UNIT
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPA	SPACE(S)(ED)(ING)
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SW	SHORT WAY
TL	TOP OF LEDGE
TP	TOP OF PIER
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WP	WORKING POINT
WWF	WELDED WIRE FABRIC



Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



Success by Design



OTIE is a Division of OTC Group Company
5100 Eastpark Blvd, Suite 300
Madison, Wisconsin 53718
p608.241.6725 414.257.2492

OTIE Job Number 2020034
Contractors are responsible for the means, methods, construction, sequencing and procedures of construction including, but not limited to, temporary supports, shoring, forming to support proposed loads and other similar items.

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DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 320012

Dane County Jail Consolidation Courthouse Electrical Vault Relocation

215 S. Hamilton Street
Madison, WI 53703

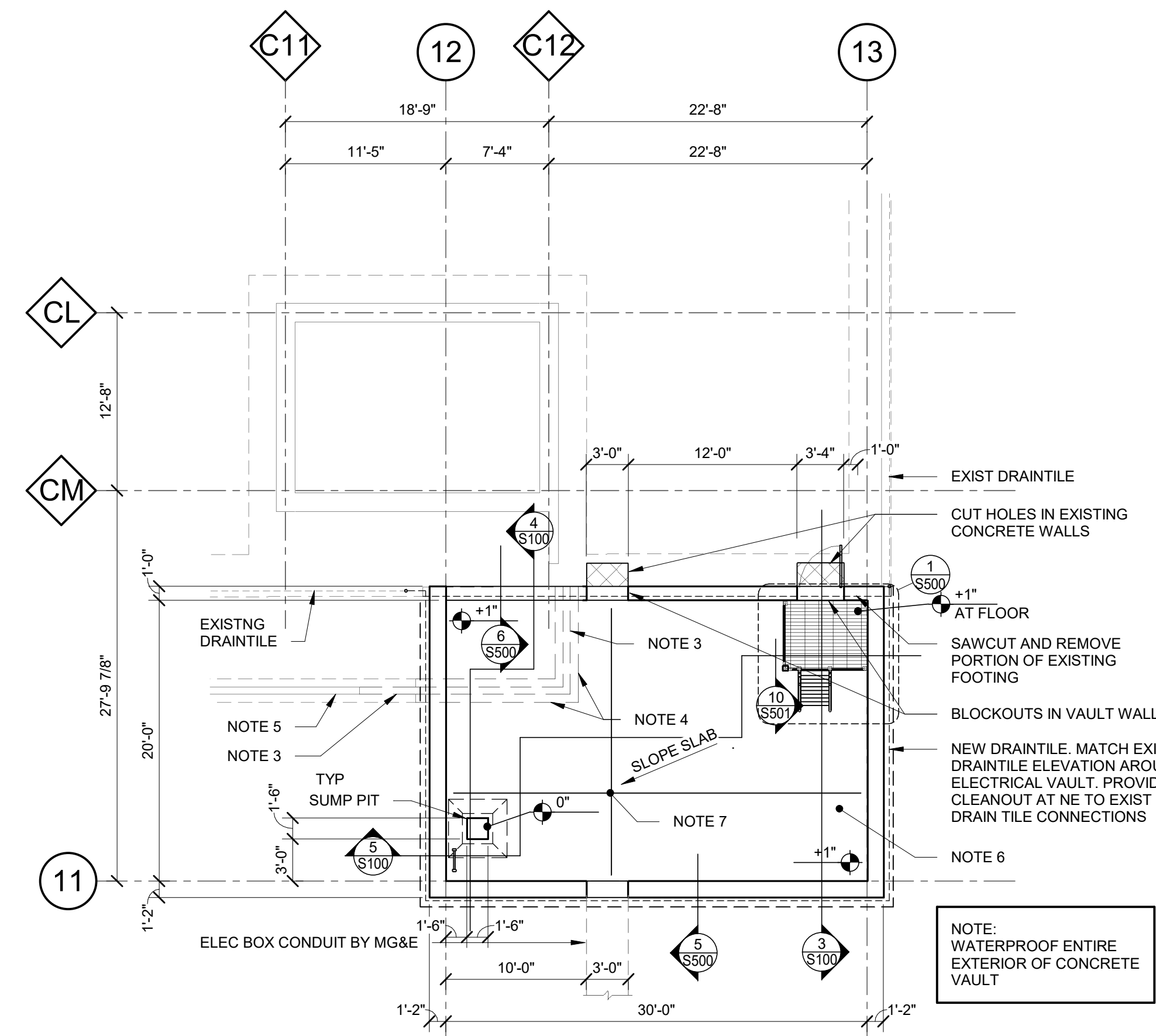
ISSUED
05/07/2020 ISSUED FOR BID/PERMIT

MSH NO.: 4215400-161957.01
DATE: 05/07/2020
DESIGNED BY: TJD
DRAWN BY: DLW
CHECKED BY: TJD

DO NOT SCALE DRAWINGS
SHEET CONTENTS
STRUCTURAL NOTES

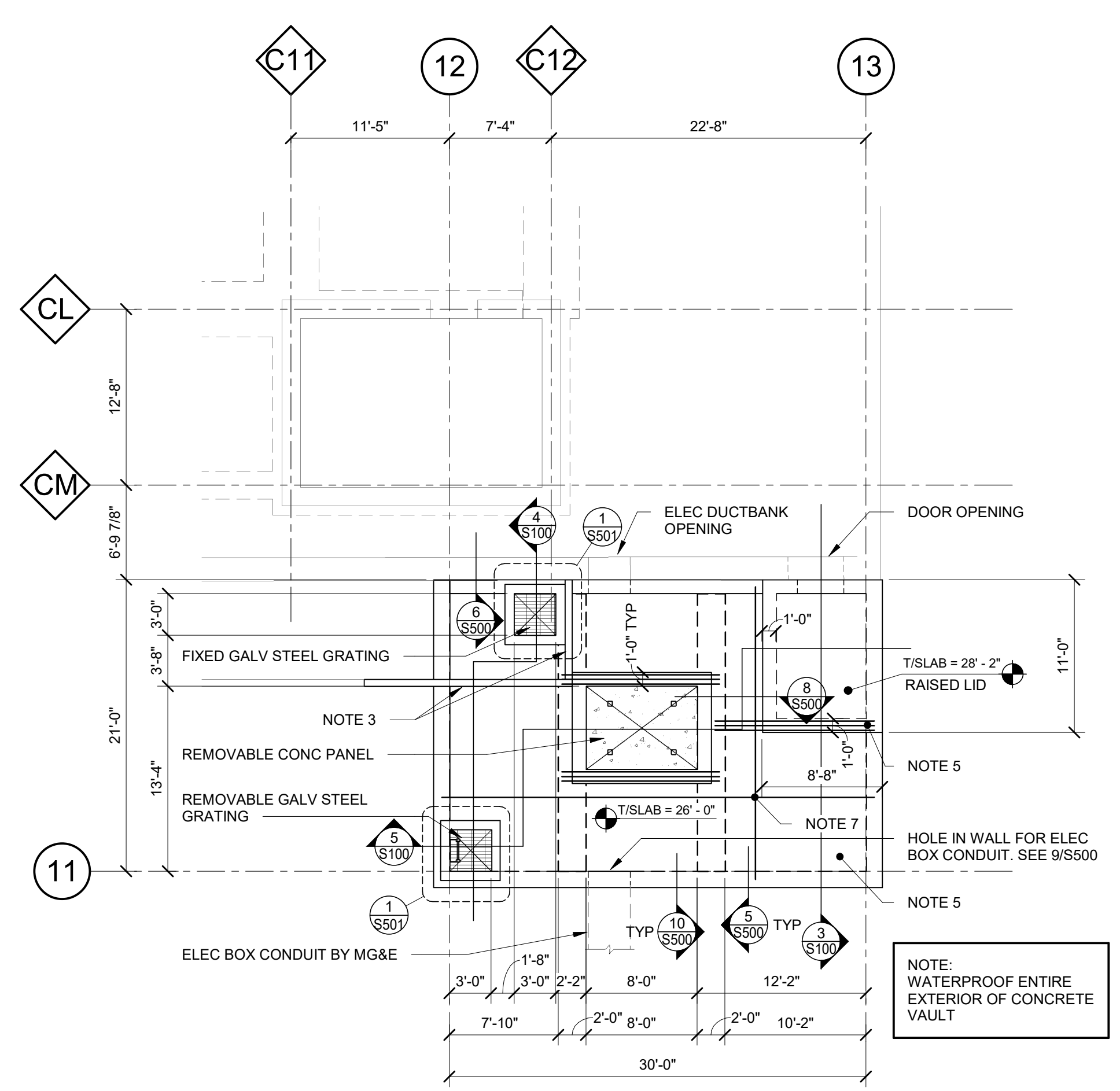
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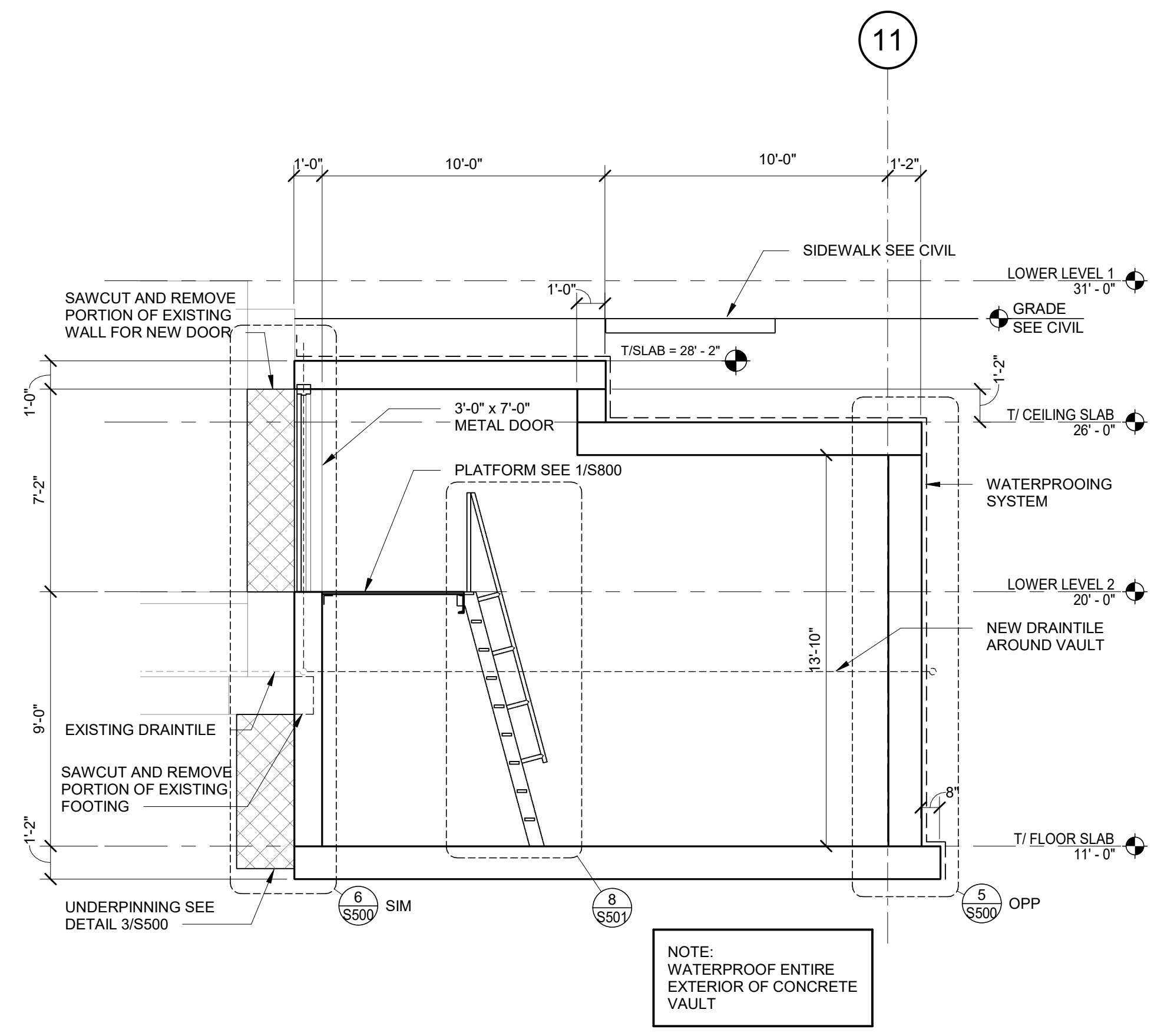
- NOTES:**
1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 2. CONCRETE CONTAINS ADMIXTURES INCLUDING CYRSTALINE FORMING ADMIXTURE.
 3. EXISTING POLISHED PRECAST CONCRETE PLANTER BOX WALLS ARE SCHEDULED FOR REMOVAL AND REUSE. PROVIDE PROTECTIVE STORAGE TO PREVENT DAMAGE TO THE PANELS.
 4. SAWCUT AND REMOVE EXISTING PLANTER BOX WALL FOOTING.
 5. EXISTING PLANTER BOX WALL JOINT. FIELD LOCATE.
 6. 14" THICK CAST CONCRETE MAT SLAB WITH SMOOTH TROWEL FINISH.
 7. #8 AT 12" OC AT T&B OF SLAB.

1 ELECTRICAL VAULT FLOOR PLAN
SCALE: 1/8" = 1'-0"

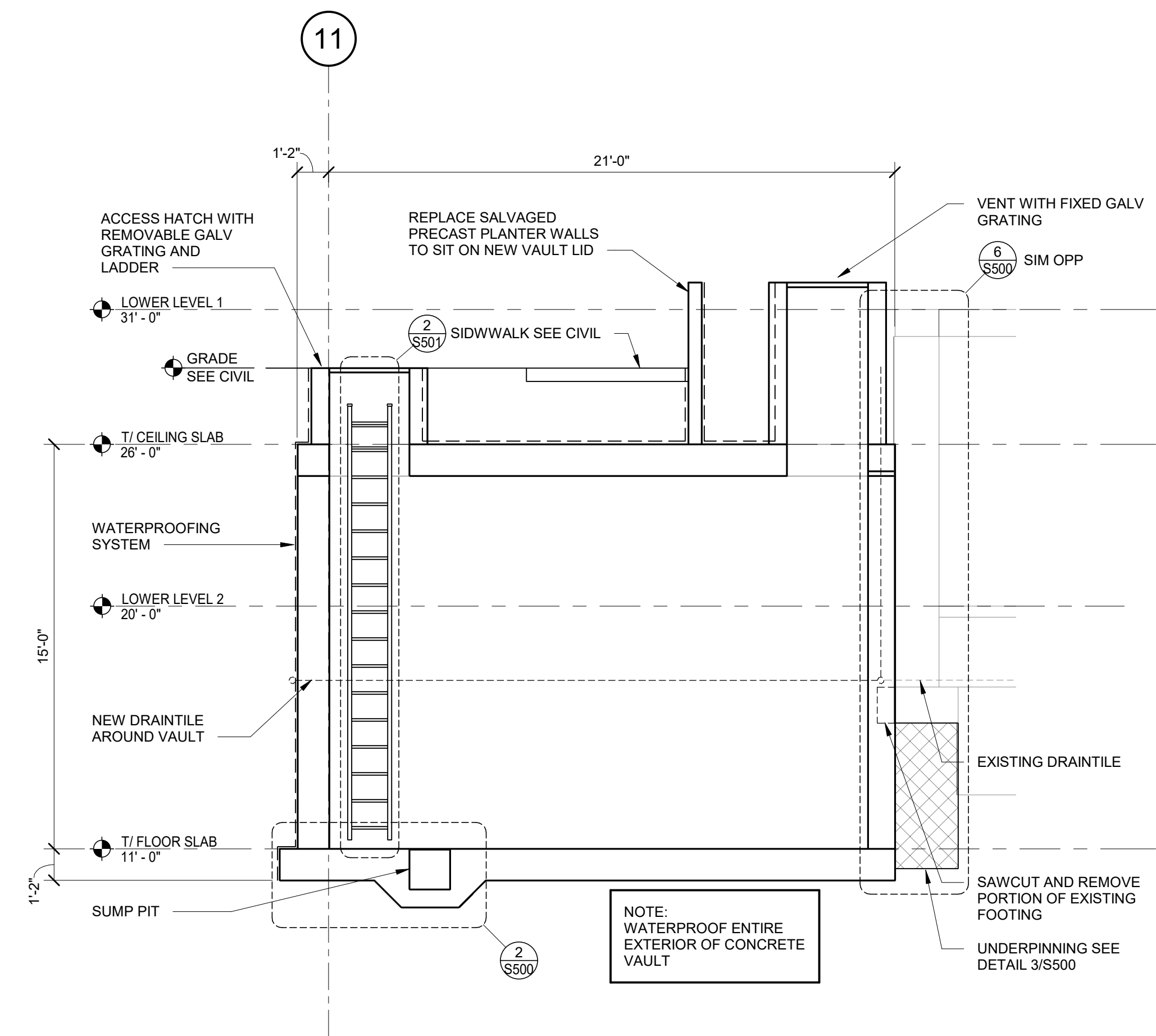


- NOTES:**
1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 2. CONCRETE CONTAINS ADMIXTURES INCLUDING CYRSTALINE FORMING ADMIXTURE.
 3. REPLACE SALVAGED POLISHED PRECAST CONCRETE PANELS. FIELD CUT PRECAST PANELS TO VAULT PROFILE.
 4. PROVIDE BOORM FINISH AT TOP F VENT OPENING.
 5. PROVIDE A SMOOTH FLOAT FINISH AT TOP OF VAULT SLAB.
 6. PROVIDE PICK HOLES WITH EMBEDDED HINGED, LATCHED ACCESS COVERS.
 7. #6 AT 12" OC EACH WAY T&B OF SLAB TYP.
 8. PROVIDE (3) ADDL #6 AT 3" OC BOT UNDER WALLS.

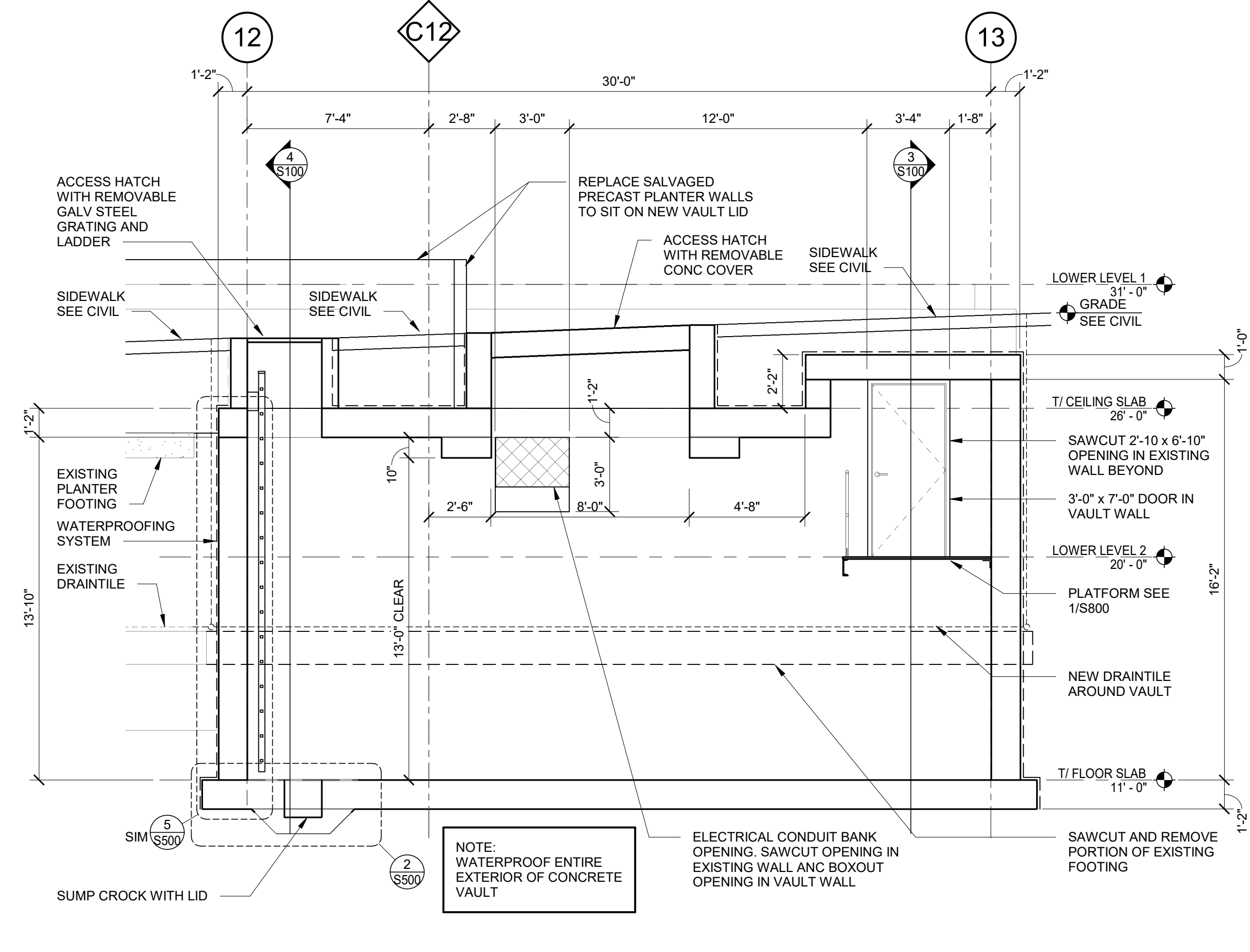
2 ELECTRICAL VAULT CEILING PLAN
SCALE: 1/8" = 1'-0"



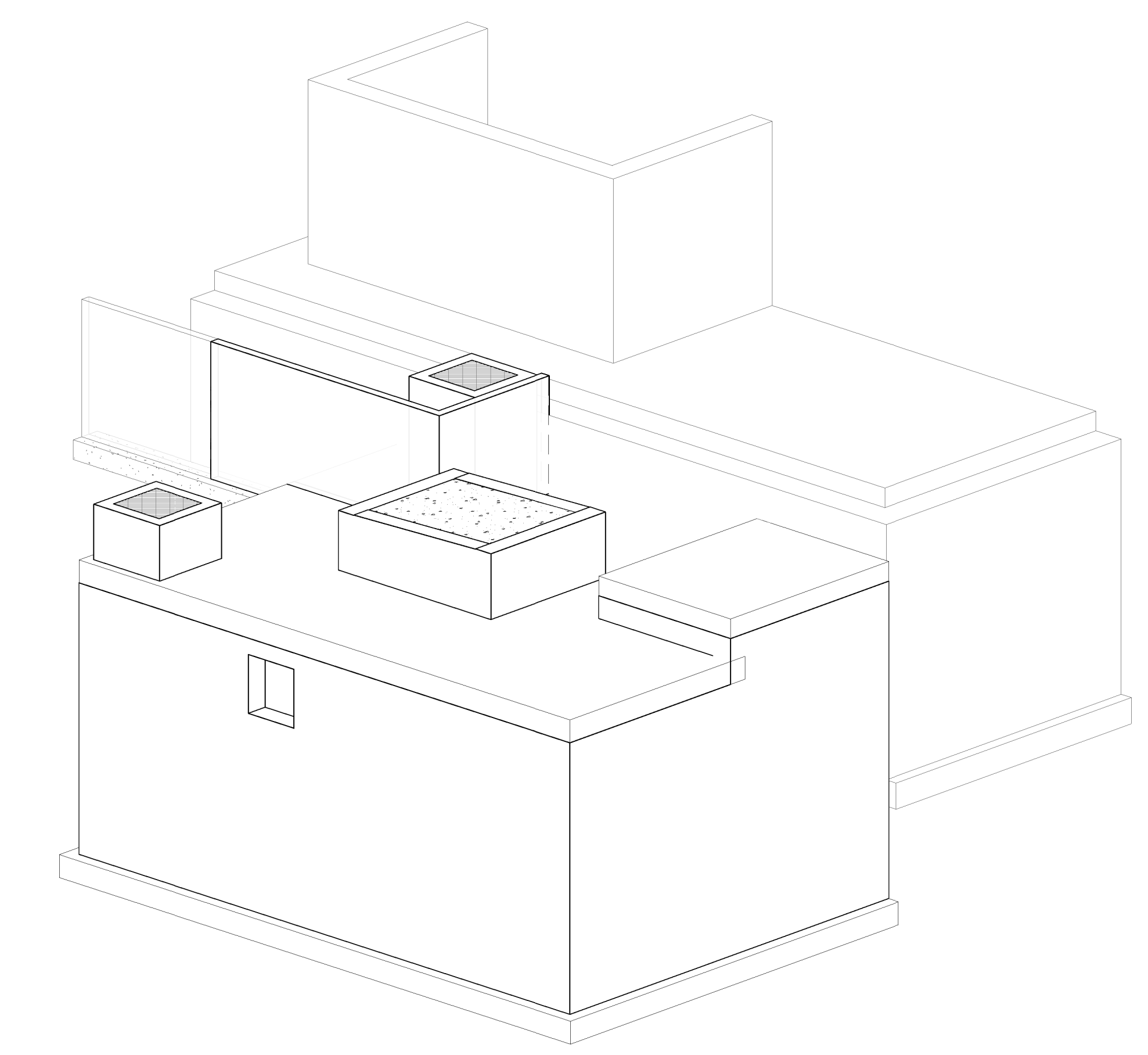
3 ELECTRICAL VAULT ELEVATION
SCALE: 1/4" = 1'-0"



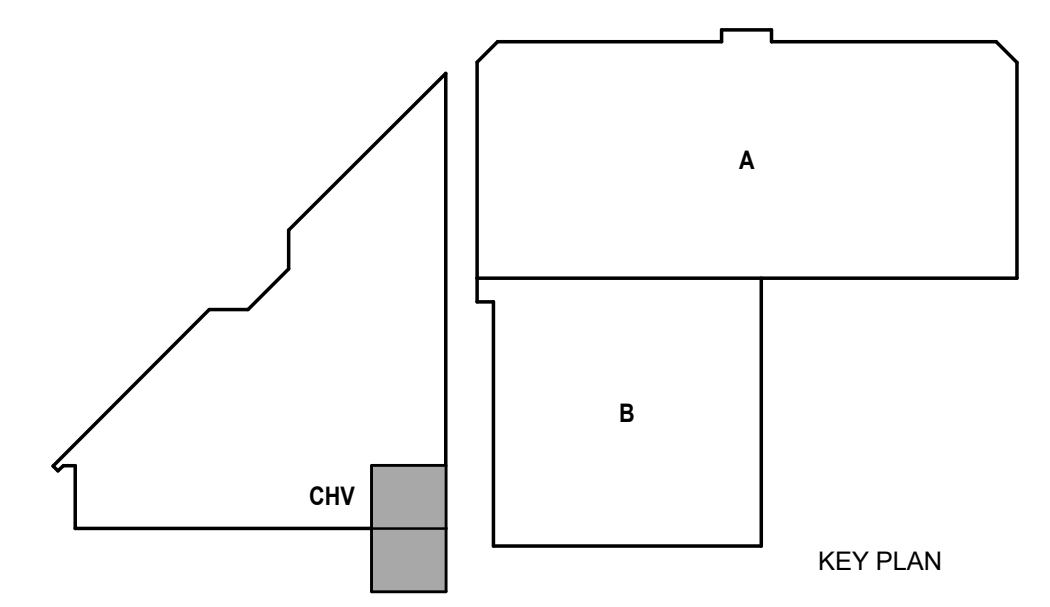
4 ELECTRICAL VAULT ELEVATION
SCALE: 1/4" = 1'-0"



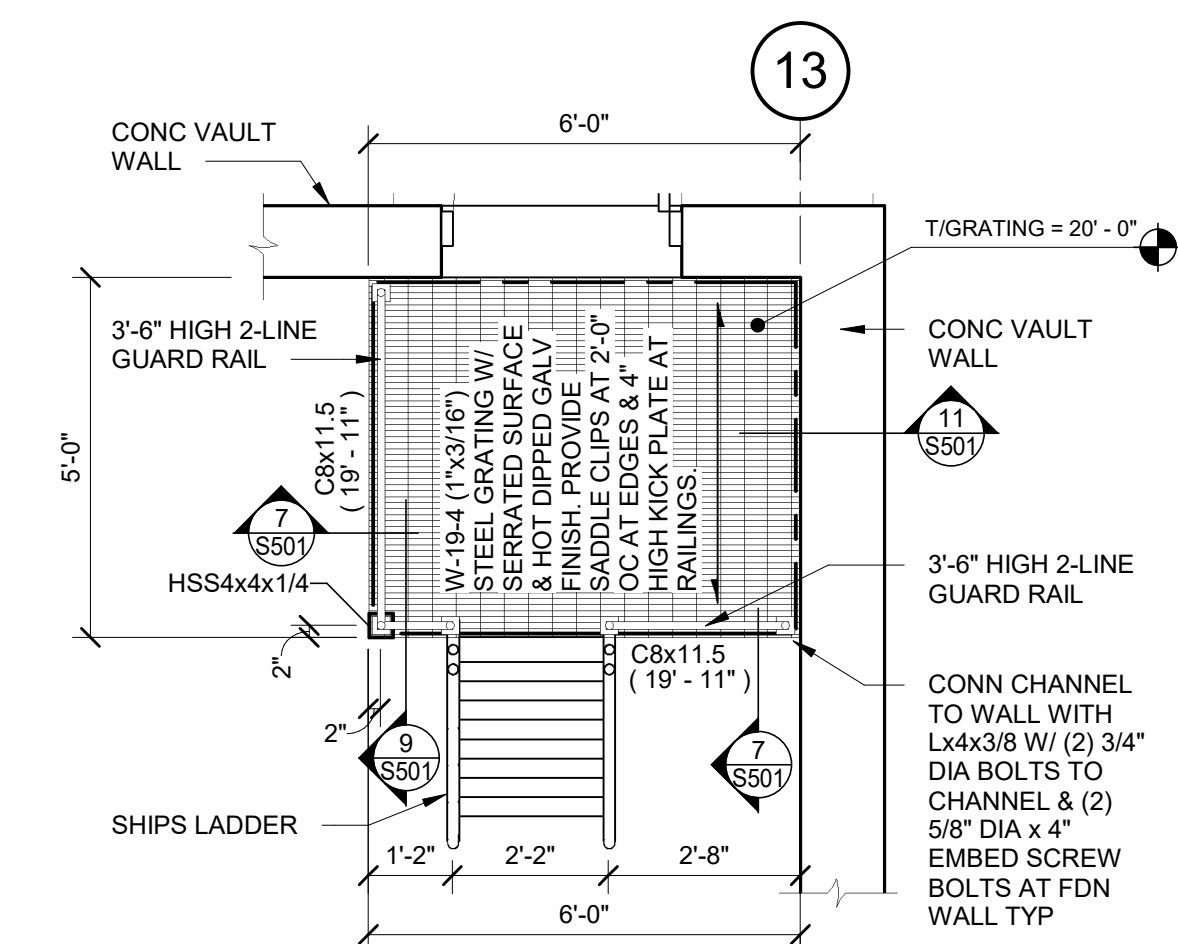
5 ELECTRICAL VAULT SECTION
SCALE: 1/4" = 1'-0"



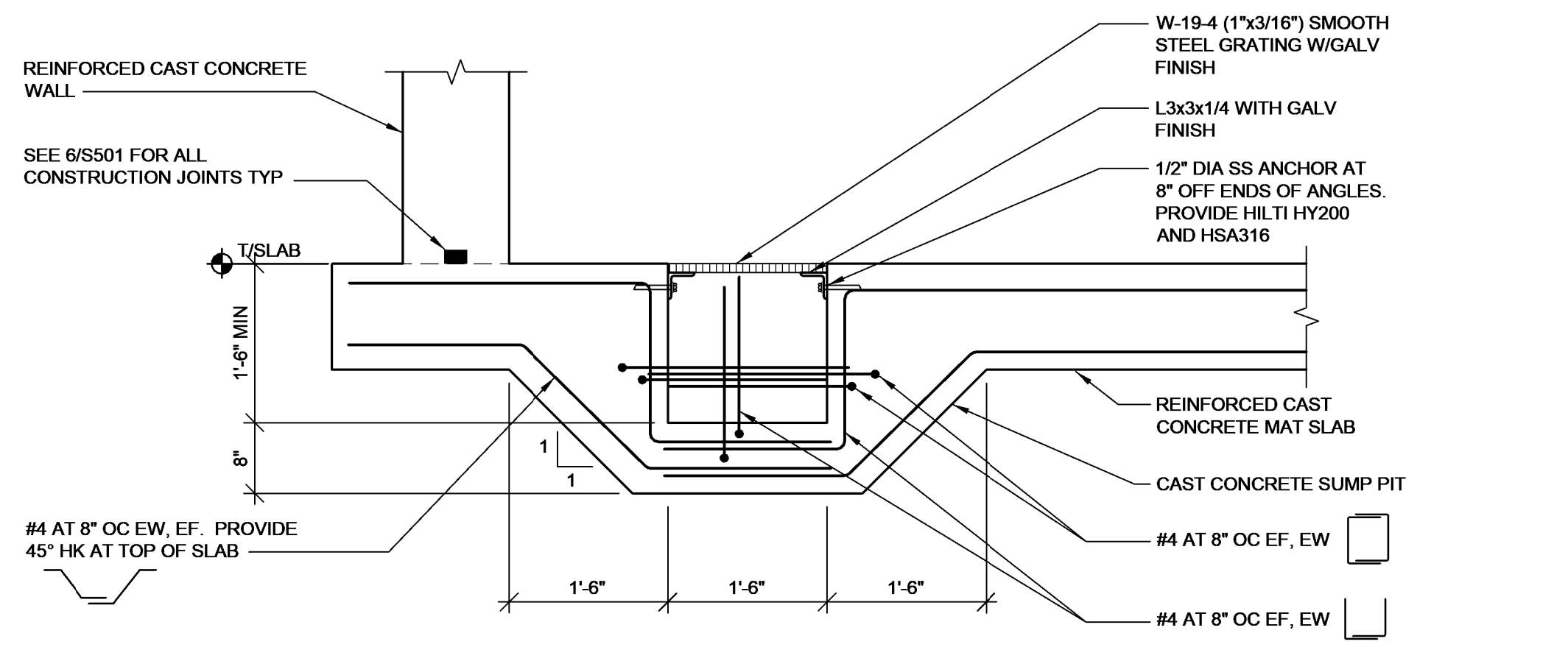
6 3D VIEW
SCALE:



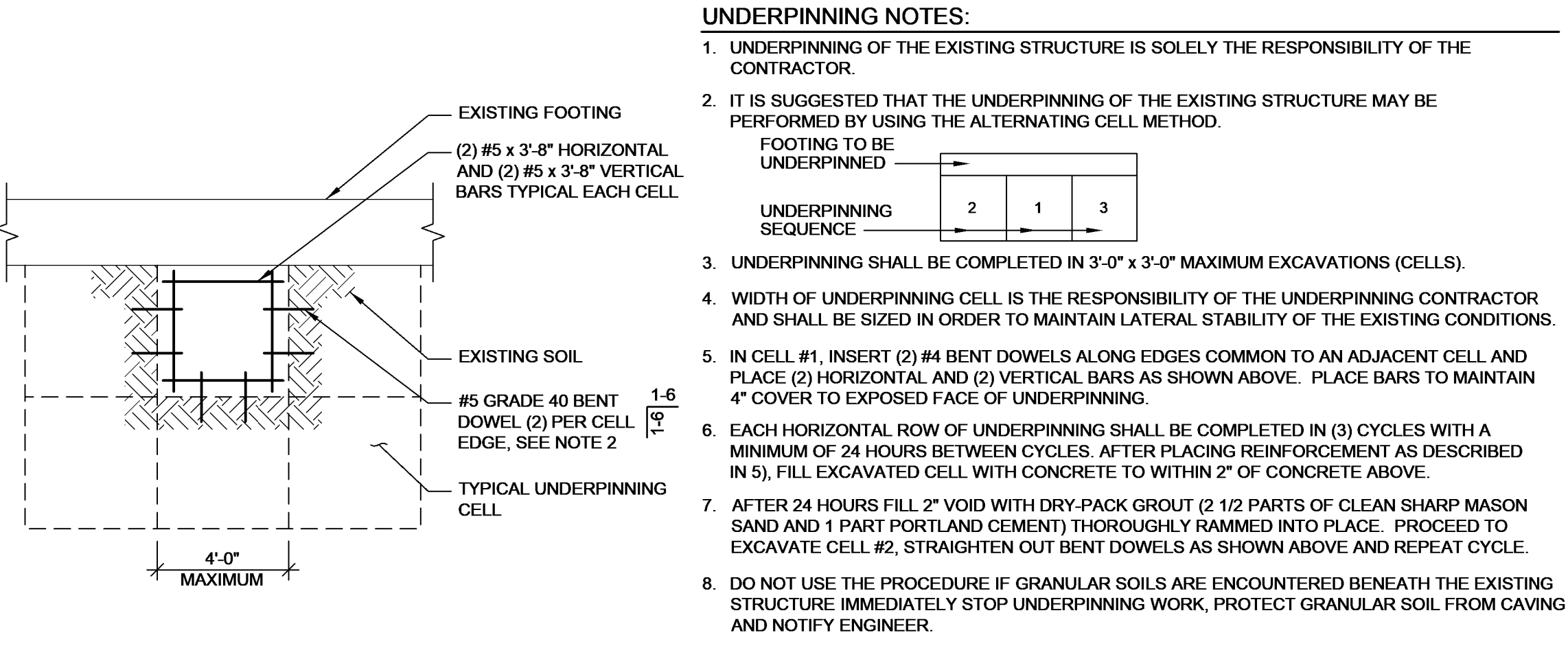
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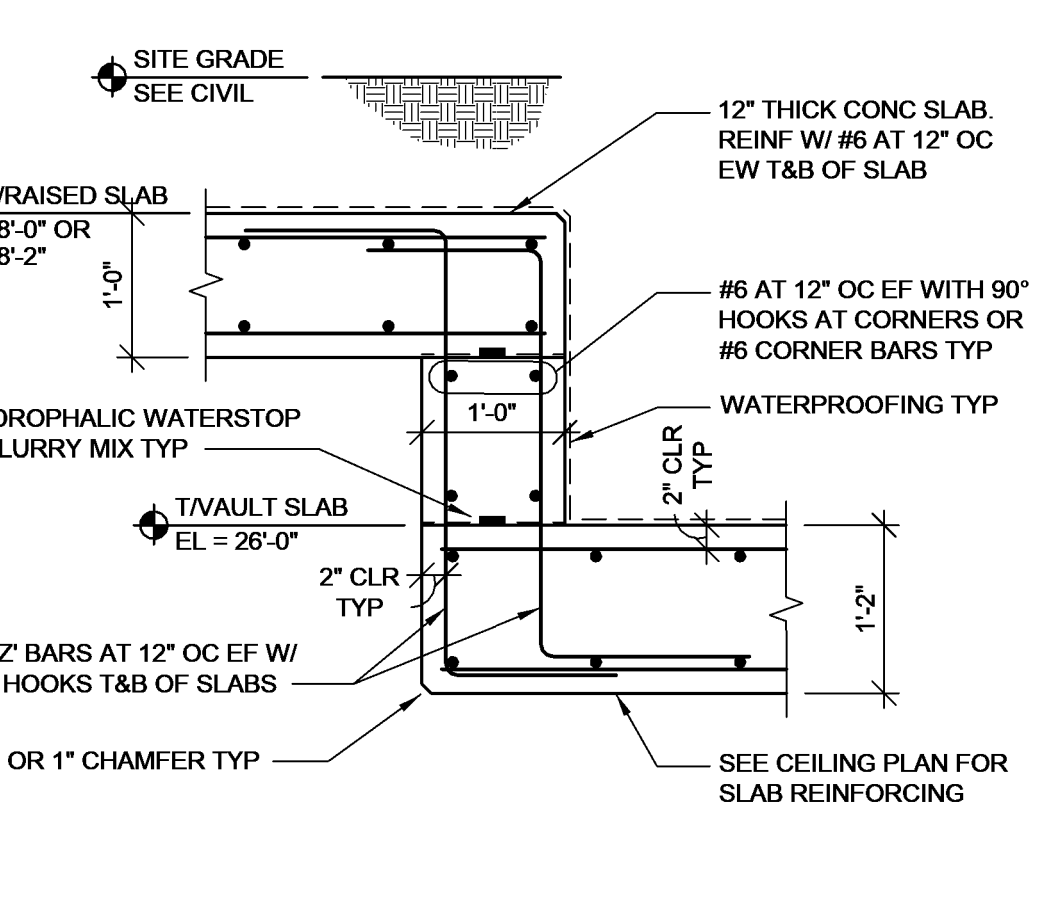
1 PLATFORM PLAN
SCALE: 3/8" = 1'-0"



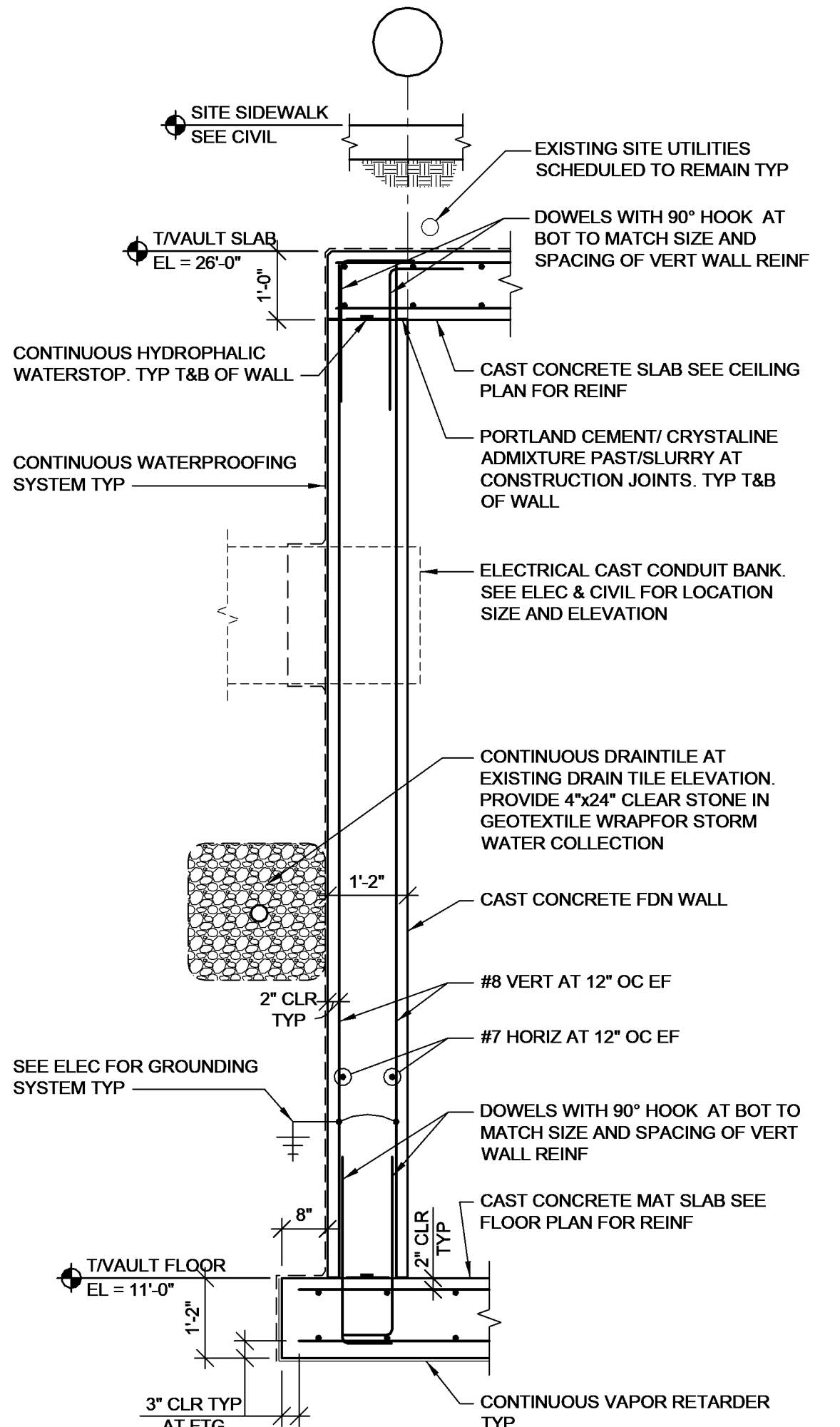
2 SUMP PIT
SCALE: 3/4" = 1'-0"



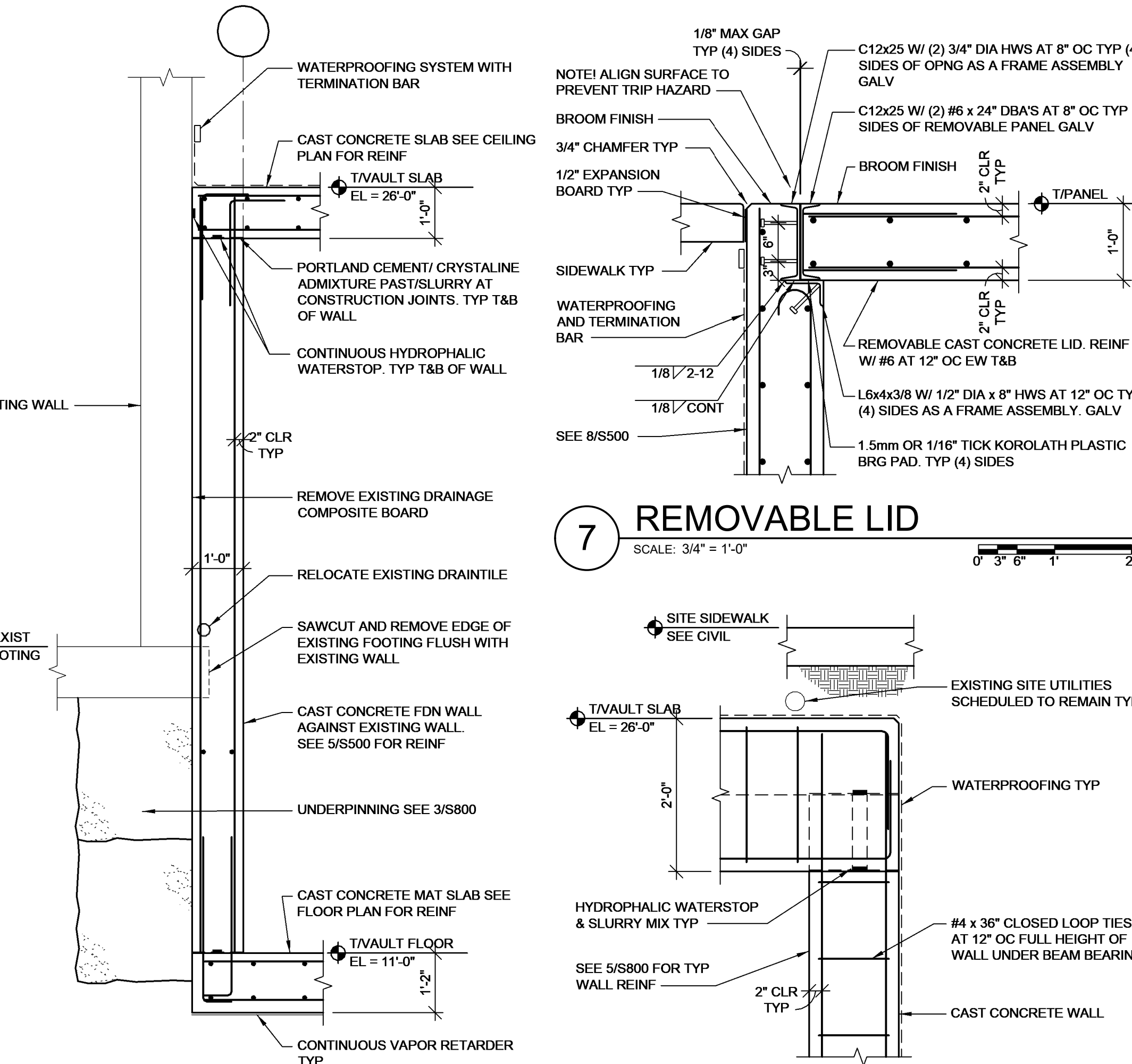
3 UNDERPINNING DETAIL
SCALE: 1/4" = 1'-0"



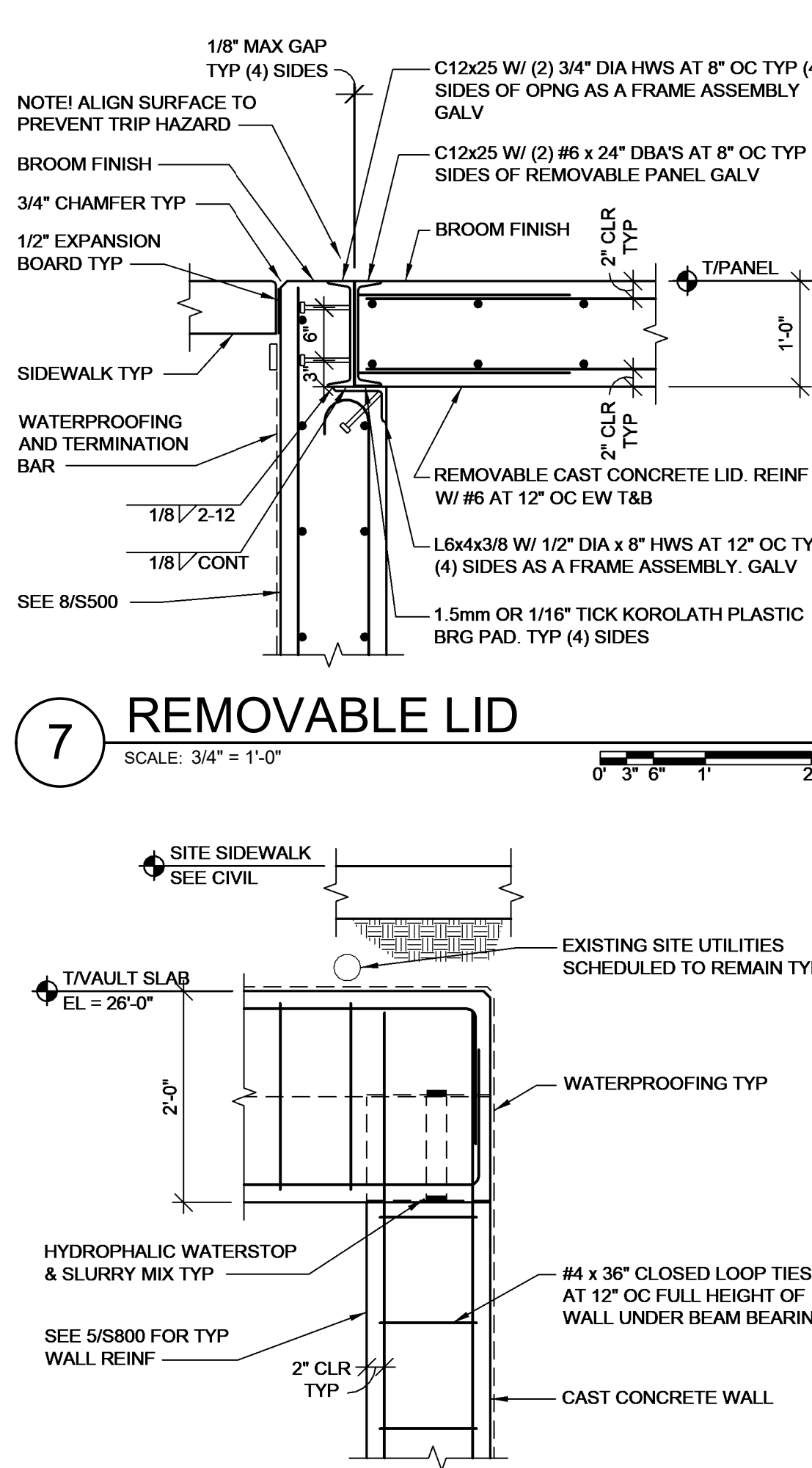
4 RAISED LID AT VAULT
SCALE: 3/4" = 1'-0"



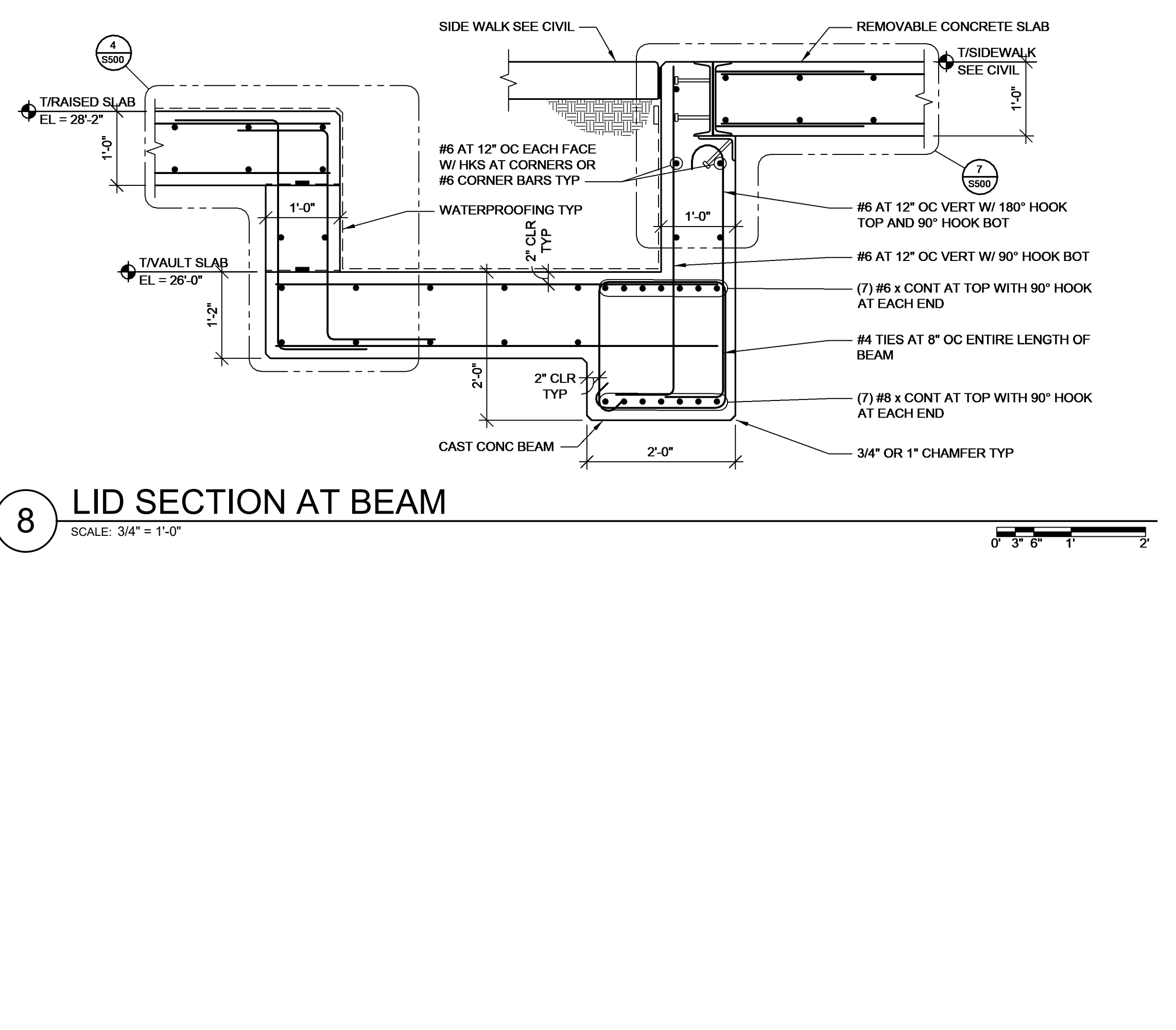
5 TYP VAULT WALL
SCALE: 1/2" = 1'-0"



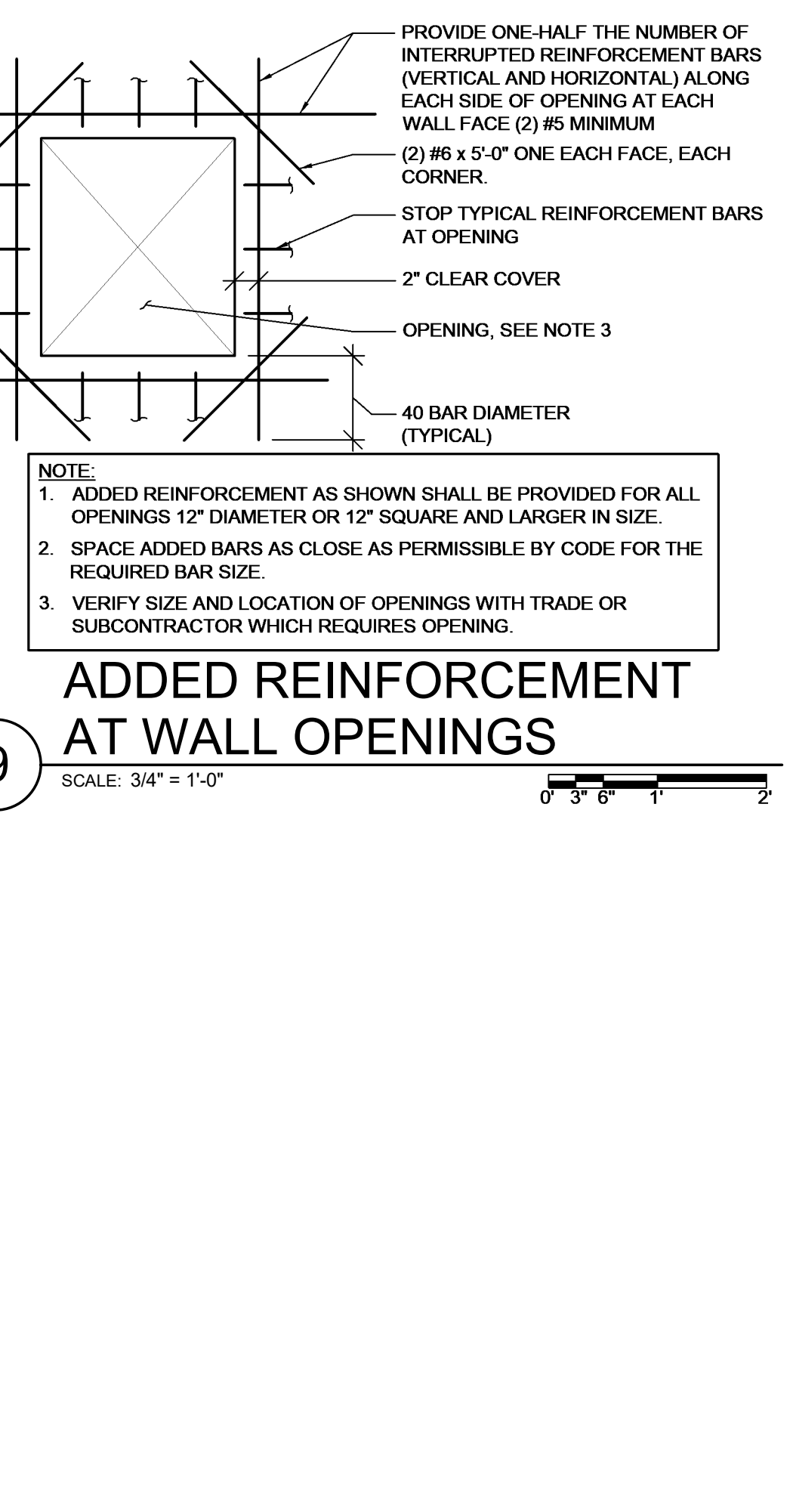
6 VAULT WALL AT EXISTING
SCALE: 1/2" = 1'-0"



7 REMOVABLE LID
SCALE: 3/4" = 1'-0"



8 LID SECTION AT BEAM
SCALE: 3/4" = 1'-0"



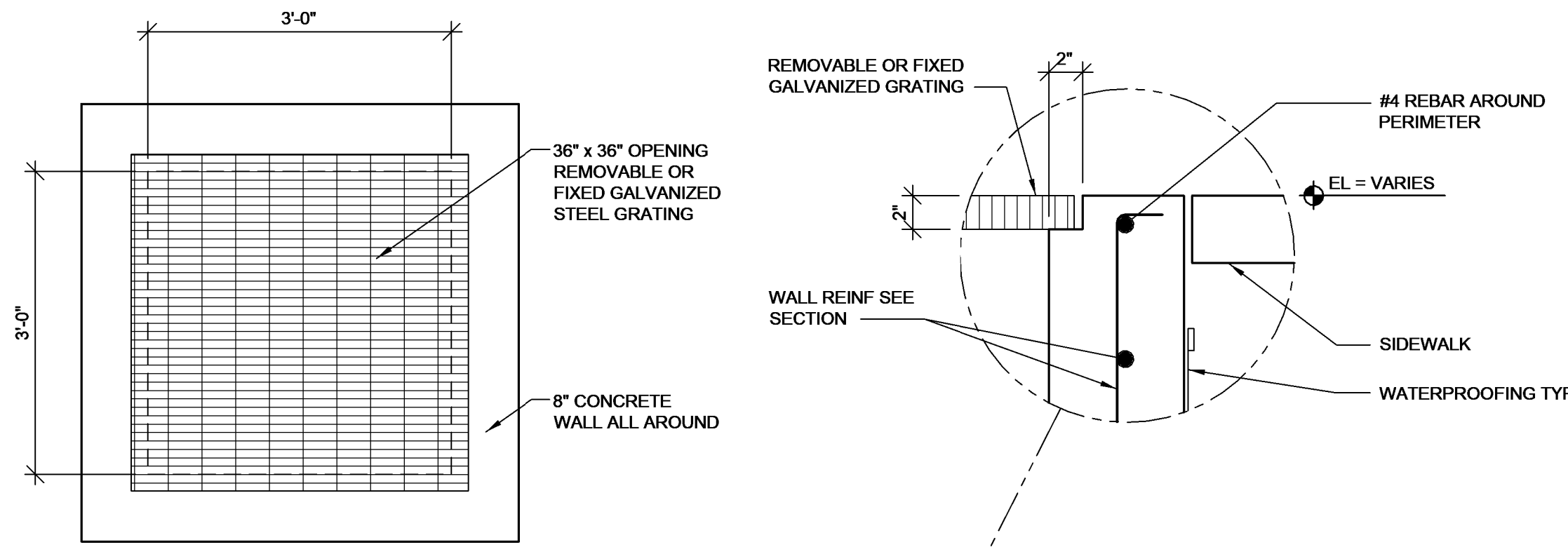
9 ADDED REINFORCEMENT AT WALL OPENINGS
SCALE: 3/4" = 1'-0"

UNDERPINNING NOTES:

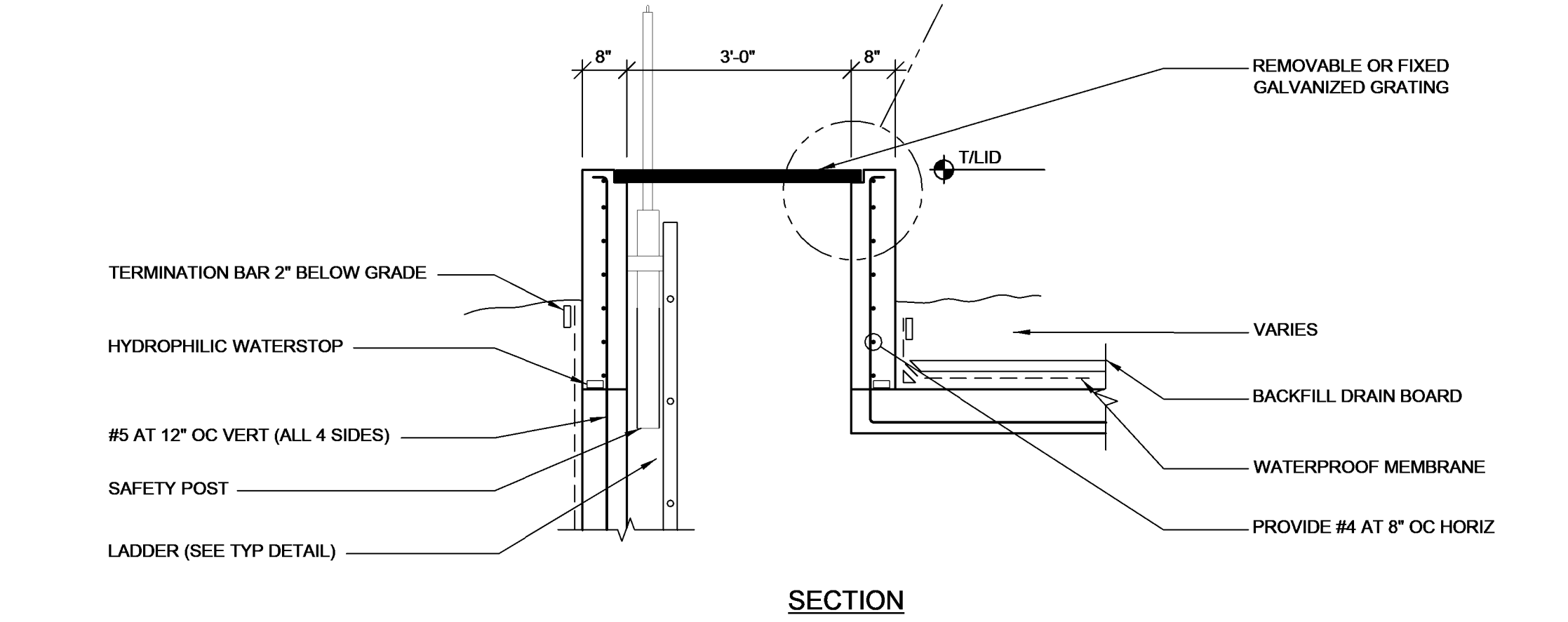
- UNDERPINNING OF THE EXISTING STRUCTURE IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- IT IS SUGGESTED THAT THE UNDERPINNING OF THE EXISTING STRUCTURE MAY BE PERFORMED BY USING THE ALTERNATING CELL METHOD.
- UNDERPINNING SHALL BE COMPLETED IN 3'-0" x 3'-0" MAXIMUM EXCAVATIONS (CELLS).
- WIDTH OF UNDERPINNING CELL IS THE RESPONSIBILITY OF THE UNDERPINNING CONTRACTOR AND SHALL BE SIZED IN ORDER TO MAINTAIN LATERAL STABILITY OF THE EXISTING CONDITIONS.
- IN CELL #1, INSERT (2) #4 BENT DOWELS ALONG EDGES COMMON TO AN ADJACENT CELL AND PLACE (2) HORIZONTAL AND (2) VERTICAL BARS AS SHOWN ABOVE. PLACE BARS TO MAINTAIN 4" COVER TO EXPOSED FACE OF UNDERPINNING.
- EACH HORIZONTAL ROW OF UNDERPINNING SHALL BE COMPLETED IN (3) CYCLES WITH A MINIMUM OF 24 HOURS BETWEEN CYCLES. AFTER PLACING REINFORCEMENT AS DESCRIBED IN 5), FILL EXCAVATED CELL WITH CONCRETE TO WITHIN 2" OF CONCRETE ABOVE.
- AFTER 24 HOURS FILL 2" VOID WITH DRY-PACK GROUT (2 1/2 PARTS OF CLEAN SHARP MASON SAND AND 1 PART PORTLAND CEMENT) THOROUGHLY RAMMED INTO PLACE. PROCEED TO EXCAVATE CELL #2, STRAIGHTEN OUT BENT DOWELS AS SHOWN ABOVE AND REPEAT CYCLE.
- DO NOT USE THE PROCEDURE IF GRANULAR SOILS ARE ENCOUNTERED BENEATH THE EXISTING STRUCTURE IMMEDIATELY STOP UNDERPINNING WORK, PROTECT GRANULAR SOIL FROM CAVING AND NOTIFY ENGINEER.

NOTE:

- ADDED REINFORCEMENT AS SHOWN SHALL BE PROVIDED FOR ALL OPENINGS 12" DIAMETER OR 12" SQUARE AND LARGER IN SIZE.
- SPACE ADDED BARS AS CLOSE AS PERMISSIBLE BY CODE FOR THE REQUIRED BAR SIZE.
- VERIFY SIZE AND LOCATION OF OPENINGS WITH TRADE OR SUBCONTRACTOR WHICH REQUIRES OPENING.



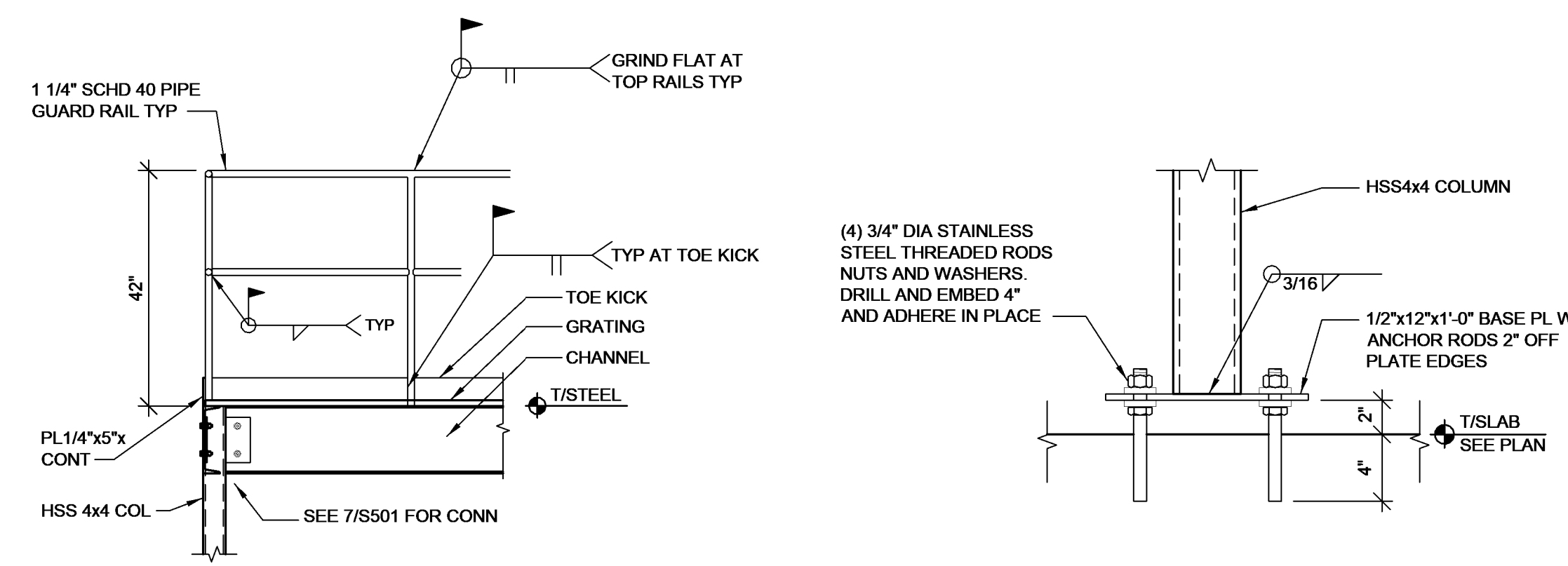
PLAN VIEW



SECTION

1 UTILITY PIT ACCESS HATCH

SCALE: 1 1/2\"/>

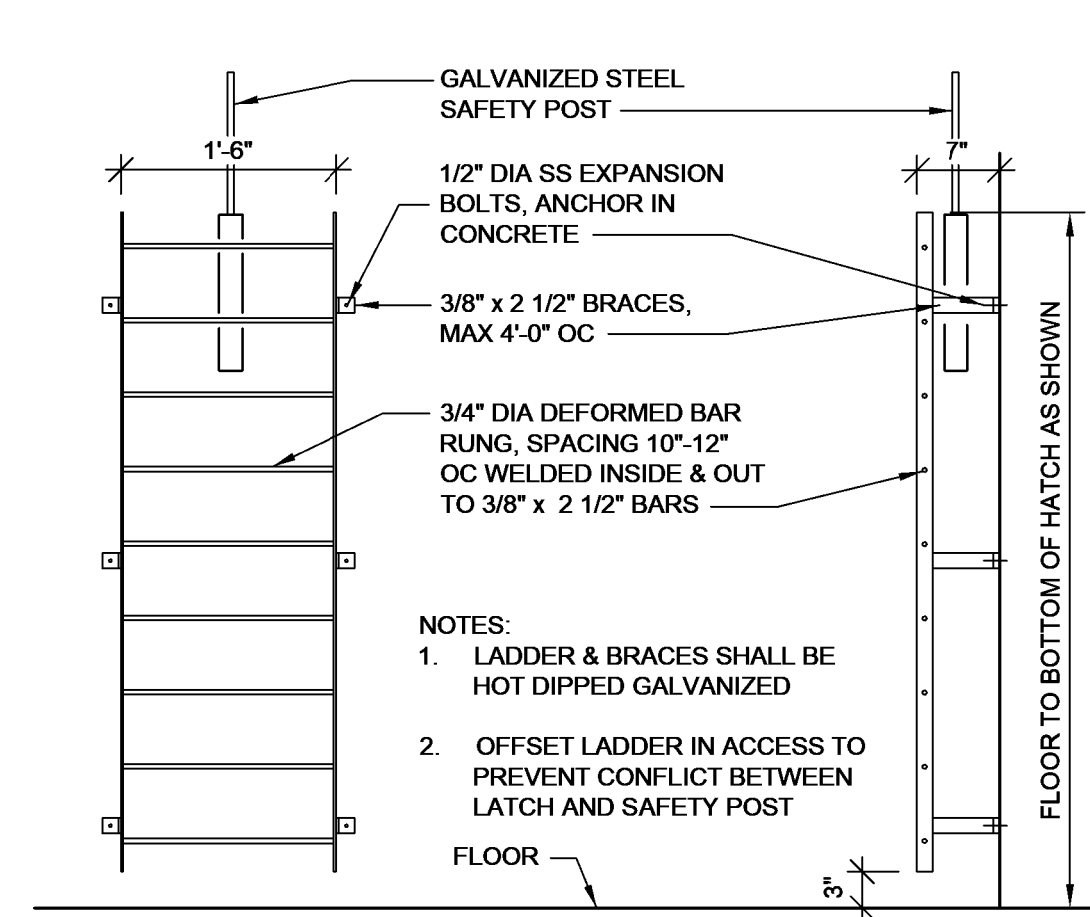
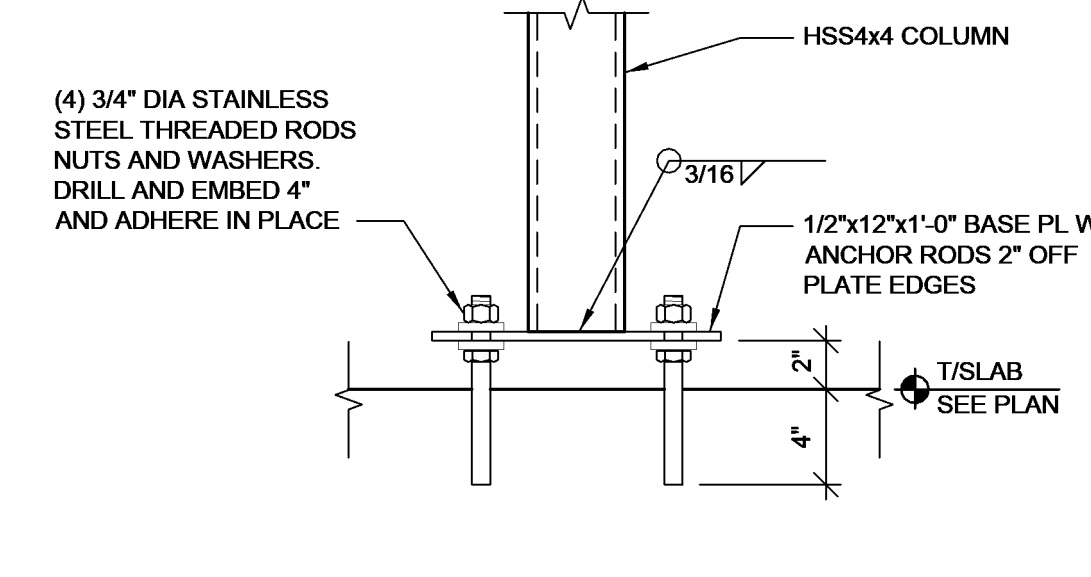


9 CATWALK ELEVATION

SCALE: 1/2\"/>

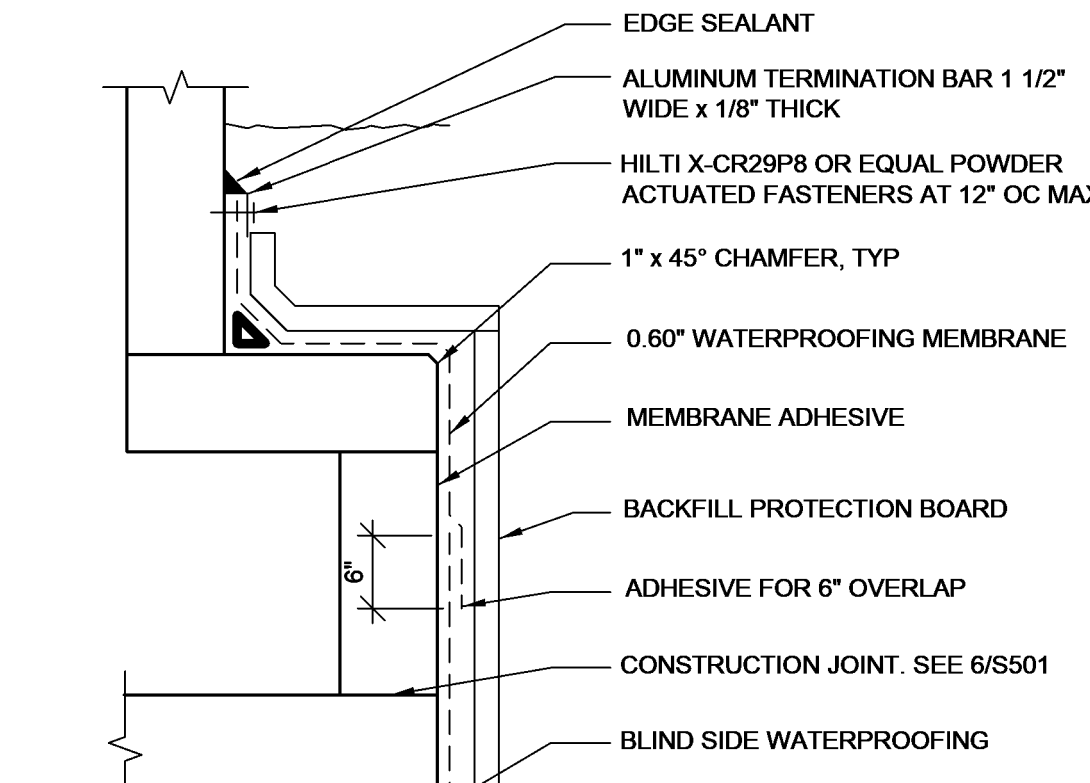
10 COLUMN BASE PLATE

SCALE: 1 1/2\"/>



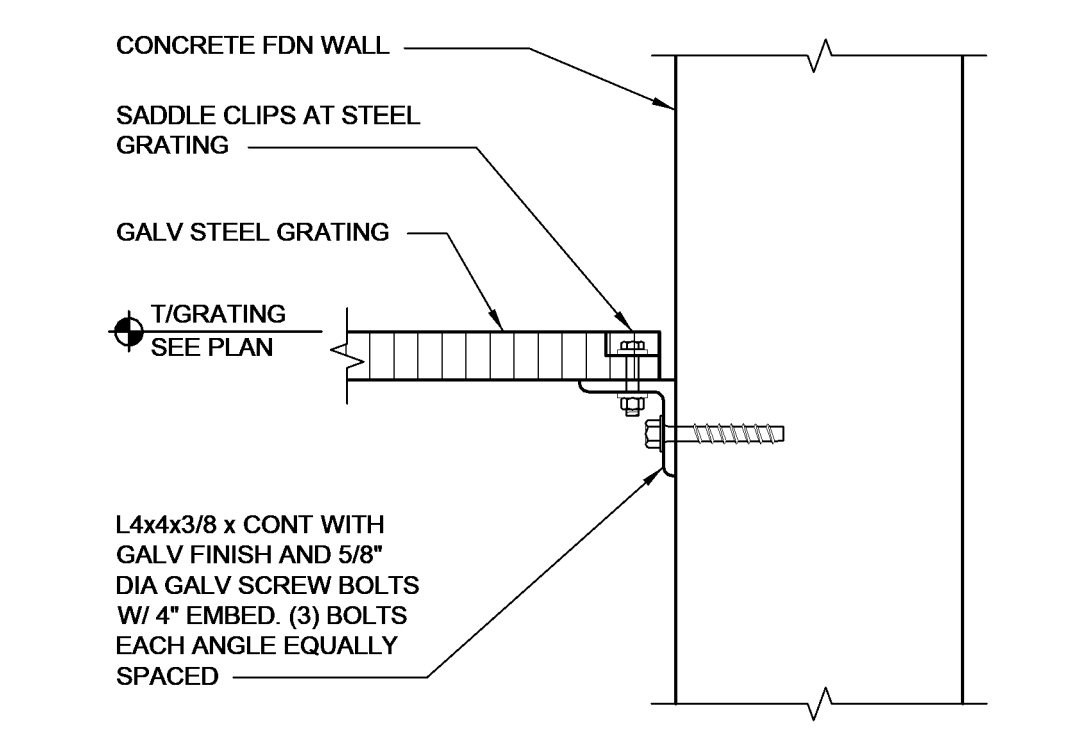
2 PIT LADDER DETAIL

SCALE: 3/4\"/>



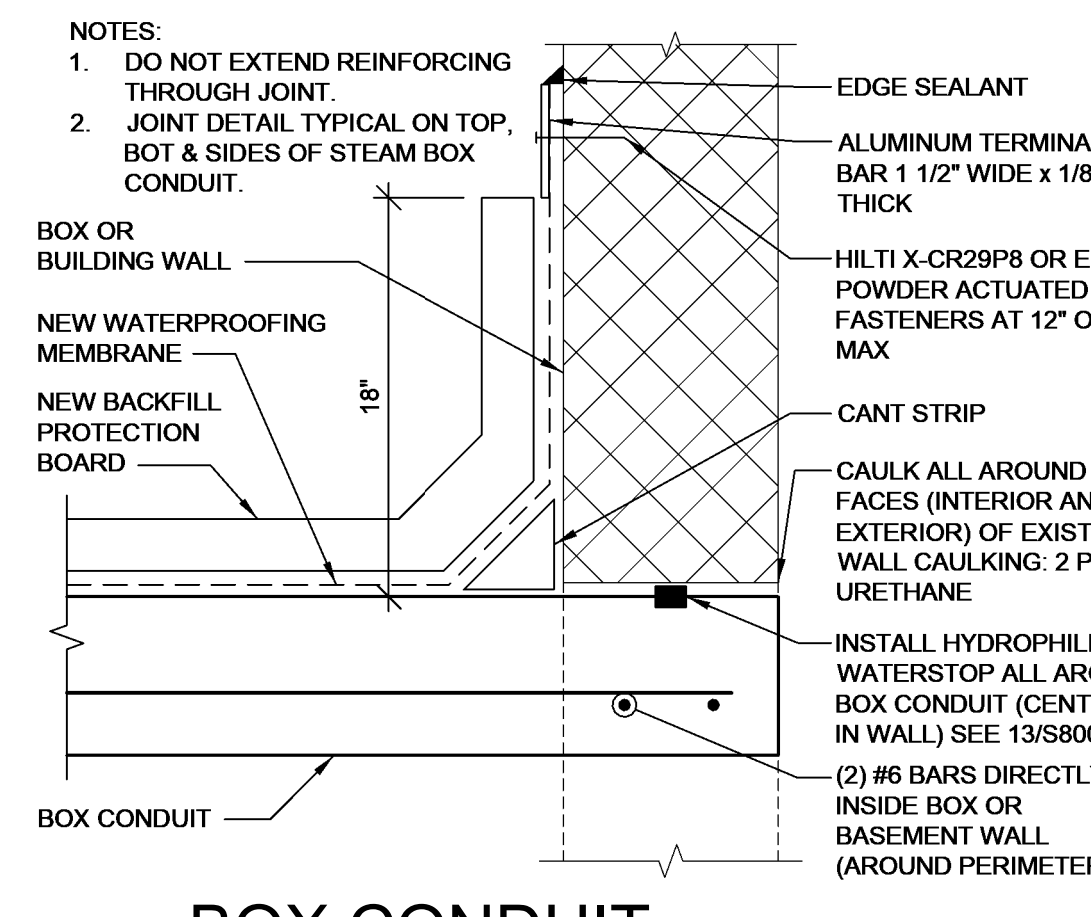
5 PIT WALL WATERPROOFING

SCALE: 3/4\"/>



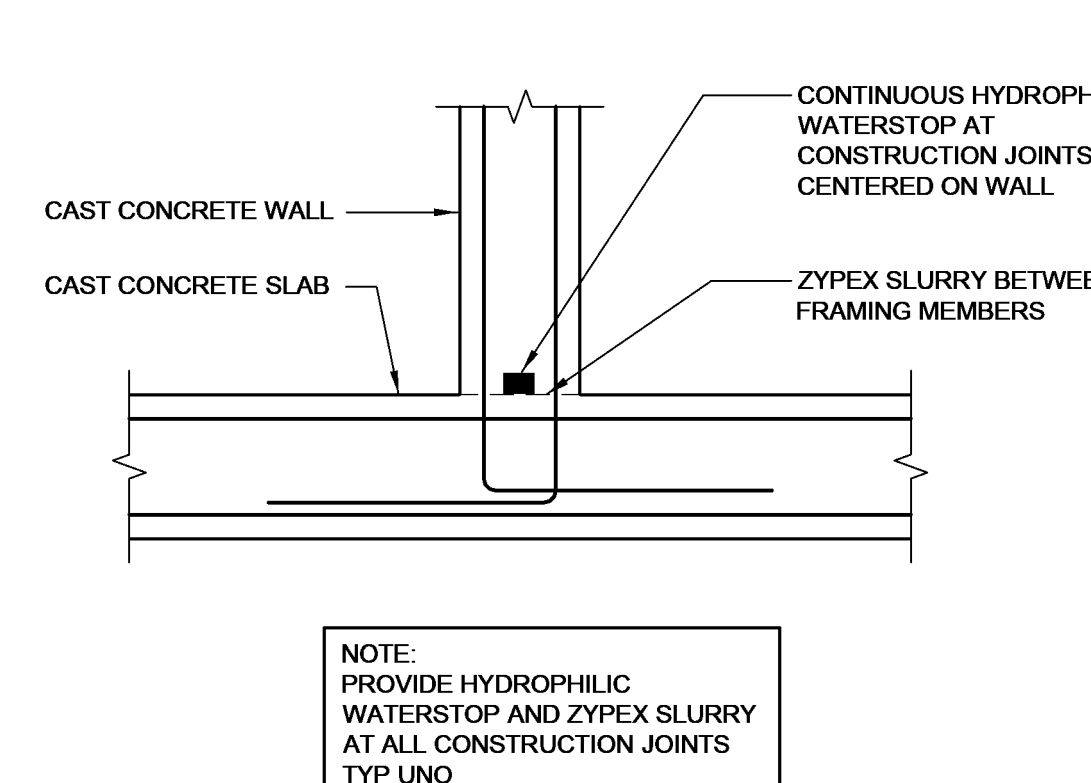
11 PLATFORM ATTACHMENT AT WALL

SCALE: 1 1/2\"/>



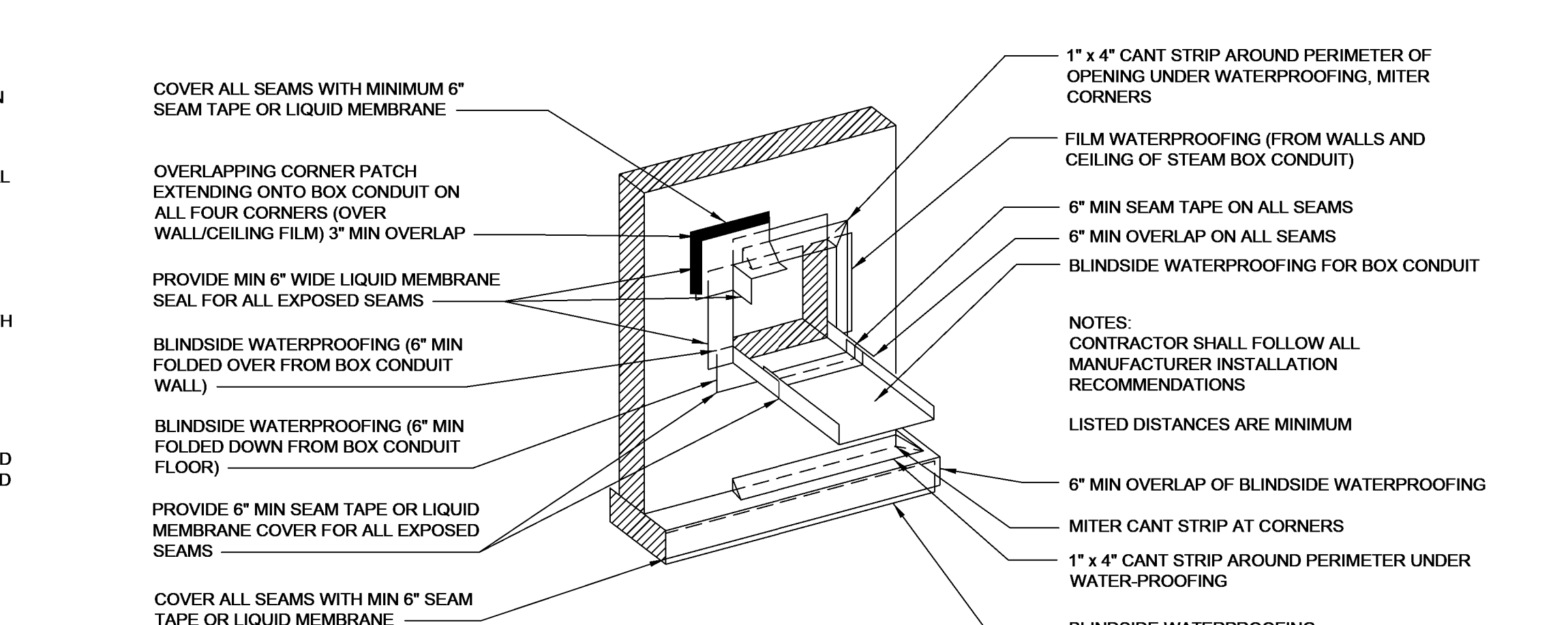
3 BOX CONDUIT PENETRATION AT EXIST

SCALE: 3/4\"/>



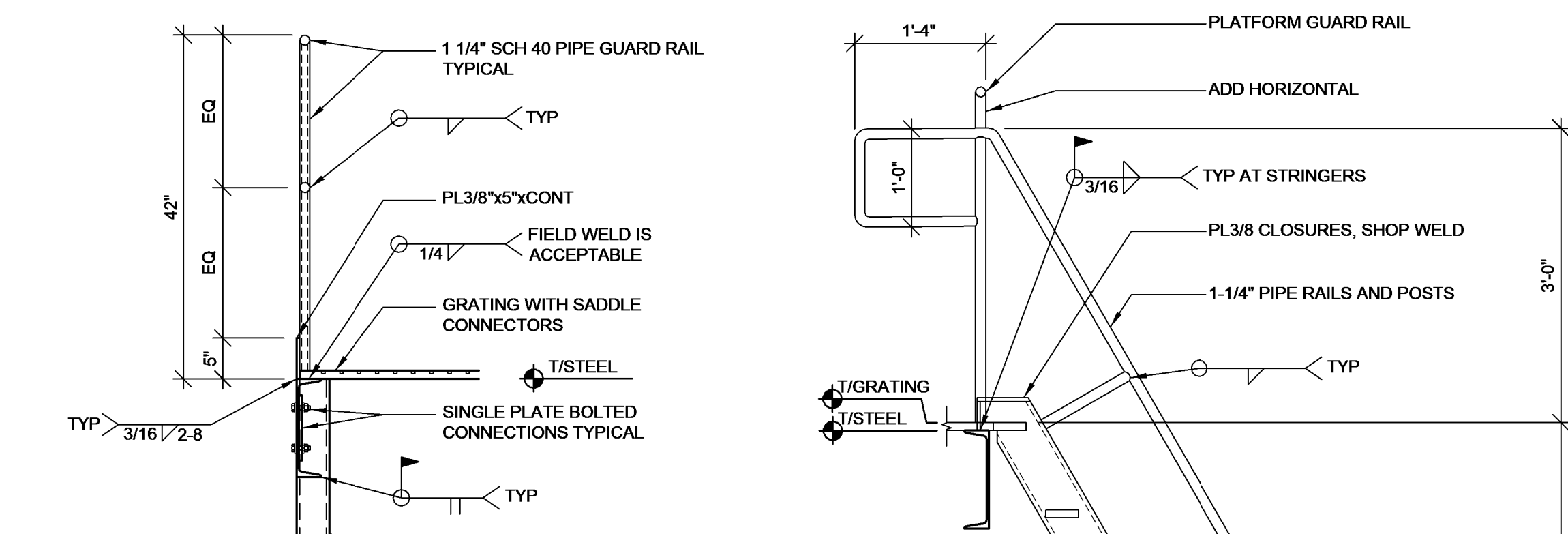
6 TYP CONSTRUCTION JOINT

SCALE: 3/4\"/>



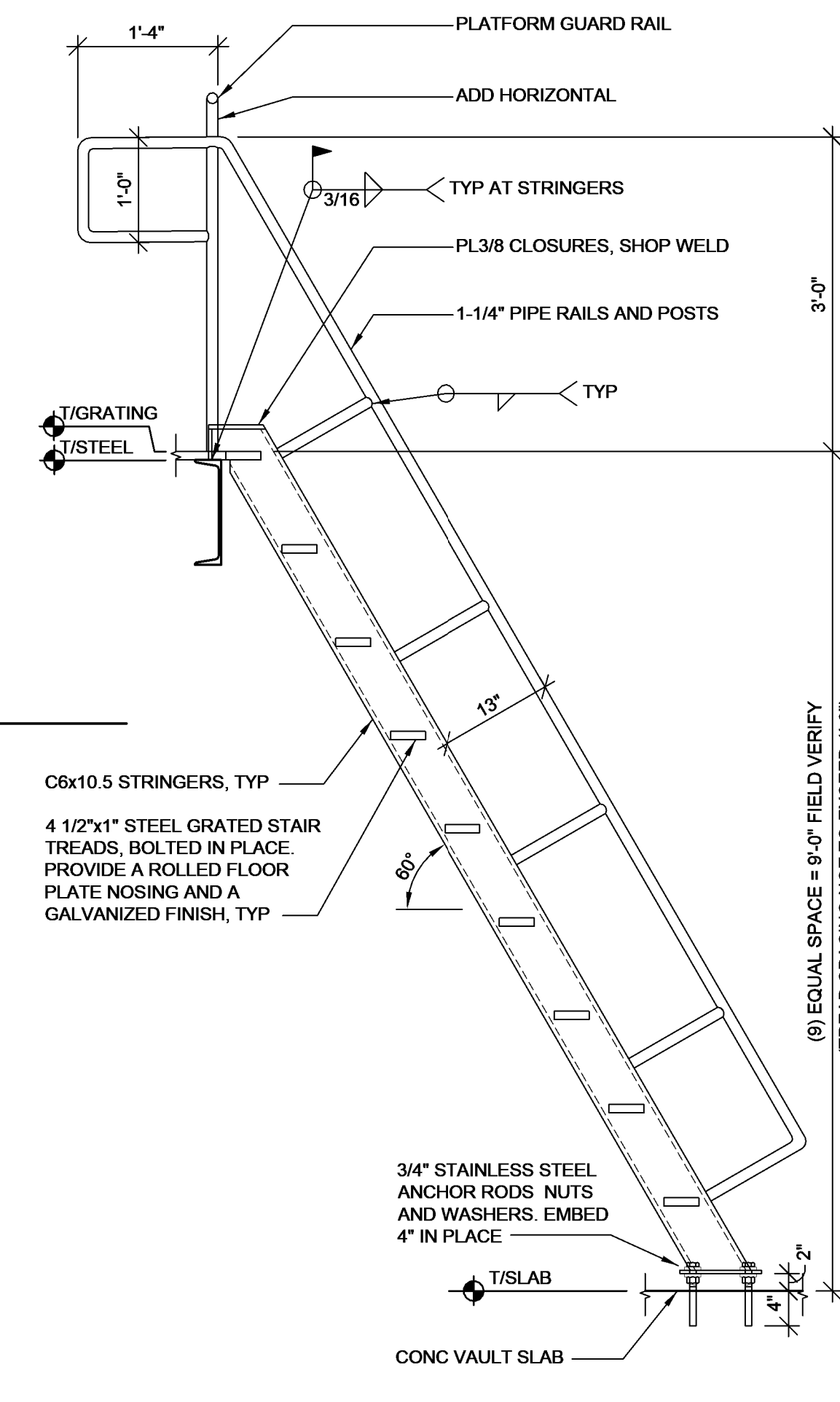
4 WATERPROOFING DETAIL

SCALE: 3/4\"/>



7 CATWALK SECTION

SCALE: 3/4\"/>



8 SHIP'S LADDER SECTION

SCALE: 3/4\"/>

LUMINAIRE SYMBOLS




 SURFACE INDUSTRIAL

LUMINAIRE CONTROL SYMBOLS

S SINGLE POLE SWITCH

SWITCH NOTATIONS:
WP DENOTES WEATHERPROOF SWITCH
3 DENOTES 3-WAY SWITCH

RECEPTACLE SYMBOLS

 DUPLEX RECEPTACLE
 DOUBLE DUPLEX ABOVE COUNTER RECEPTACLE
 ABOVE COUNTER DUPLEX RECEPTACLE

RECEPTACLE NOTATIONS:
WP DENOTES WEATHER PROOF OUTLETS
GFCI DENOTES GROUND FAULT INTERRUPTER OUTLETS

FIRE ALARM SYMBOLS

 FIRE ALARM HORN/STROBE

 FIRE ALARM STROBE



MOTOR & EQUIPMENT CONNECTION SYMBOLS

 ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS

RACEWAY SYMBOLS

 CABLE TRAY, SIZE AND TYPE AS INDICATED ON DRAWINGS

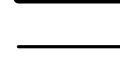


SERVICE & DISTRIBUTION SYMBOLS

 PANELBOARD
 EMERGENCY SHADING MODIFIER

GENERAL SYMBOLS

#E-### DETAIL NUMBER / SHEET NUMBER
(9####) KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.
KITCHEN EQUIPMENT TAG, # REFERS TO CORRESPONDING NUMBER IN KITCHEN EQUIPMENT SCHEDULE.

LINE TYPE KEY

 NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
 EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)
 EXISTING TO REMAIN WORK (THIN SOLID LINE)

ELECTRICAL ABBREVIATIONS

3R NEMA 3R RATING
 4X NEMA 4X RATING
 A AMPERES
 A/E ARCHITECT / ENGINEER
 AAC ABOVE ACCESSIBLE CEILING
 ACCU AIR COOLED CONDENSING UNIT
 AFF ABOVE FINISHED FLOOR
 AFG ABOVE FINISHED GRADE
 AHU AIR HANDLING UNIT
 ALT ALTERNATE
 APE AIRCRAFT PROCESS EQUIPMENT
 ATS AUTOMATIC TRANSFER SWITCH
 BLDG BUILDING
 BRKR BREAKER
 C CONDUIT
 CB CIRCUIT BREAKER
 CEB CONCRETE EQUIPMENT BASE
 CF CIRCULATION FAN
 CH CHILLER
 CHWP CHILLED WATER PUMP
 CKT CIRCUIT
 CP CIRCULATION PUMP
 CRAC COMPUTER ROOM AIR CONDITIONER
 CRP CONDENSATION RETURN
 CT COOLING TOWER
 CUH CABINET UNIT HEATER
 DC DROP CORD
 DDC DIGITAL CONTROL PANEL
 DH DUCT HEATER
 DISC DISCONNECT
 DO DOOR OPERATOR
 DWG DRAWING
 E/O ELECTRICAL-TO-OPTICAL CONVERTER
 EC ELECTRICAL CONTRACTOR
 ECB ENCLOSED CIRCUIT BREAKER
 EF EXHAUST FAN
 EM EMERGENCY
 EMT ELECTRICAL METALLIC TUBING
 ERL EXISTING TO BE RELOCATED
 ERLD EXISTING- RELOCATED LOCATION
 ES EQUIPMENT SUPPLIER
 ETR EXISTING TO REMAIN
 EWC ELECTRICAL WATER COOLER
 EWH ELECTRICAL WATER HEATER
 F FUSED
 FA FIRE ALARM
 FAF FORCED AIR FURNACE
 FCU FAN COIL UNIT
 GC GENERAL CONTRACTOR
 GD GARBAGE DISPOSAL
 GFI GROUND FAULT INTERRUPTER
 GND GROUND
 GWH GAS WATER HEATER
 HD HAND DRYER
 HP HORSEPOWER
 HVAC HEATING, VENTILATION, AIR CONDITIONING
 HWB HOT WATER BOILER
 HWP HOT WATER PUMP
 IHS INSTANTANEOUS ELECTRIC WATER HEATER
 IH INFRARED HEATER
 IMC INTERMEDIATE METALLIC CONDUIT
 IWH INSTANTANEOUS WATER HEATER
 J-BOX JUNCTION BOX
 LBS POUNDS
 LFS LIGHTING FIXTURE SCHEDULE
 MAU MAKE-UP AIR UNIT
 MAX MAXIMUM
 MC MECHANICAL CONTRACTOR
 MCC MOTOR CONTROL CENTER
 MDF MAIN DISTRIBUTION FRAME
 MDP MAIN DISTRIBUTION PANEL
 MIN. MINIMUM
 MNS MASS NOTIFICATION SYSTEM
 MTD MOUNTED
 MTG MOUNTING
 MTS MANUAL TRANSFER SWITCH
 NIC NOT IN CONTRACT
 NL NIGHT LIGHT
 NLEL NIGHT LIGHT AND EMERGENCY LIGHT
 NTS NOT TO SCALE
 OC ON CENTER
 OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
 OFOI OWNER FURNISHED, OWNER INSTALLED
 PH PHASE
 PNL PANEL
 PVC POLYVINYL CHLORIDE
 RCP RADIANT CEILING PANEL
 RECP RECEPTACLE
 REF REFRIGERATOR
 REQ'D REQUIRED
 RF RETURN FAN
 RGS RIGID GALVANIZED STEEL CONDUIT
 MAY ALSO BE REFERENCED AS RMC OR GRC
 RMC RIGID METAL CONDUIT
 RTU ROOF TOP UNIT
 SN SOLID NEUTRAL
 SE SERVICE ENTRANCE
 SEC-P SECURITY PANEL
 SF SUPPLY FAN
 SP SUMP PUMP
 SS STAINLESS STEEL
 SW SWITCH
 SWBK SWITCH BANK
 TBR TO BE REMOVED
 TOP TEMPERATURE CONTROL PANEL
 TFA TO FLOOR ABOVE
 TFB TO FLOOR BELOW
 TYP TYPICAL
 UC UNIT COOLER
 UG UNDERGROUND
 UH UNIT HEATER
 UNO UNLESS NOTED OTHERWISE
 UV UNIT VENTILATOR
 V VOLTS
 VER VEHICLE EXHAUST REEL
 VFD VARIABLE FREQUENCY DRIVE
 VS VERSUS
 W WATTS
 WCC WATER COOLED CONDENSER
 WFE WELDING FUME EXTRACTOR
 WH WATER HEATER
 WL WET LOCATION LISTED
 WP WEATHERPROOF
 XFMR TRANSFORMER
 XP EXPLOSION PROOF

GENERAL NOTES:

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA/AG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ABA (ARCHITECTURAL BARRIERS ACT).
- REFER TO DRAWINGS FOR FIRE RATED WALLS AND FLOORS. MAKE RATED PENETRATIONS AS REQUIRED. SEAL ALL RATED PENETRATIONS AS IDENTIFIED IN DIVISION 1 REQUIREMENTS.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL SCHEDULES PROVIDED. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
- CONDUIT IN ELECTRICAL ROOMS TO BE ROUTED EXPOSED ON BUILDING STRUCTURE. INSTALL PARALLEL AND PERPENDICULAR TO BUILDING LINES.
- ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR TO PROVIDE SUITABLE MECHANICAL PROTECTION AROUND ALL CONDUITS STUBBED OUT FROM FLOORS, WALLS OR CEILINGS DURING CONSTRUCTION TO PREVENT BENDING OR DAMAGING OF STUB CUTS DUE TO CARELESSNESS WITH CONSTRUCTION EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- SCCR RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.

DEMOLITION GENERAL NOTES:

- THE INFORMATION SHOWN IS BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS TO ASSIST CONTRACTOR IN BIDDING. THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. REFER TO SPECIFICATION SECTION 26 05 02 FOR ADDITIONAL REQUIREMENTS.
- DASHED WALLS ON THE FLOOR PLANS INDICATE EXISTING WALLS BEING DEMOLISHED. REFER TO THE ARCHITECTURAL DEMOLITION PLANS FOR THE EXACT EXTENT OF WORK REQUIRED BY THIS PROJECT. REMOVE ALL DEVICES ON DASHED WALLS NOT SHOWN ON THE CONTRACT DRAWINGS.
- ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, PANELBOARDS, DISCONNECTS, MOTOR CONTROLLERS, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER. IN A STORAGE AREA TO BE DESIGNATED BY THE OWNER, EQUIPMENT BEING REMOVED SHALL BE HANDLED SO AS NOT TO FURTHER REDUCE ITS VALUE TO THE OWNER. THE CONTRACTOR SHALL DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
- WHERE LIGHTS, SWITCHES, RECEPTACLES, ETC., ARE BEING REMOVED ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANELBOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS. THE CONTRACTOR SHALL DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
- ALL BOXES THAT REMAIN IN PLACE IN EXISTING MASONRY WALLS THAT ARE TO REMAIN SHALL BE PROVIDED WITH A BLANK COVERPLATE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH TYPE AND ATTACHMENT.
- ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
- THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK, INCLUDING PHASING WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING ELECTRICAL AND INSTALLING NEW ITEMS.
- MAINTAIN CIRCUIT CONTINUITY OF DEVICES LOCATED OUTSIDE OF CONSTRUCTION AREA. DEVICE AND EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
- PROVIDE REVISED TYPED CIRCUIT DIRECTORY IN PANELBOARDS THAT HAVE CIRCUITS REMOVED OR ADDED CIRCUITS.
- REMOVE EXPOSED ABANDONED CONDUIT. CUT RACEWAY FLUSH WITH WALLS AND FLOORS. PATCH SURFACES TO MATCH EXISTING. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC. ASSOCIATED WITH RACEWAY REMOVAL.
- DISCONNECT AND REMOVE ABANDONED LUMINAIRES, INCLUDING BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

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DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
 1919 ALLIANT ENERGY CENTER WAY
 MADISON, WI 53713

PROJECT NO. 320012

Dane County Jail Consolidation
 Courthouse Electrical Vault Relocation
 215 S. Hamilton Street
 Madison, WI 53703

ISSUED
 05/07/2020 ISSUED FOR
 BID/PERMIT

MSB NO.: 4215400-161957.01
 DATE: 05/07/2020
 DESIGNED BY: JEN
 DRAWN BY: DAH
 CHECKED BY: MAS

DO NOT SCALE DRAWINGS
 SHEET CONTENTS
 NOTES, SYMBOLS &
 ABBREVIATIONS

SHEET NO.:

E001



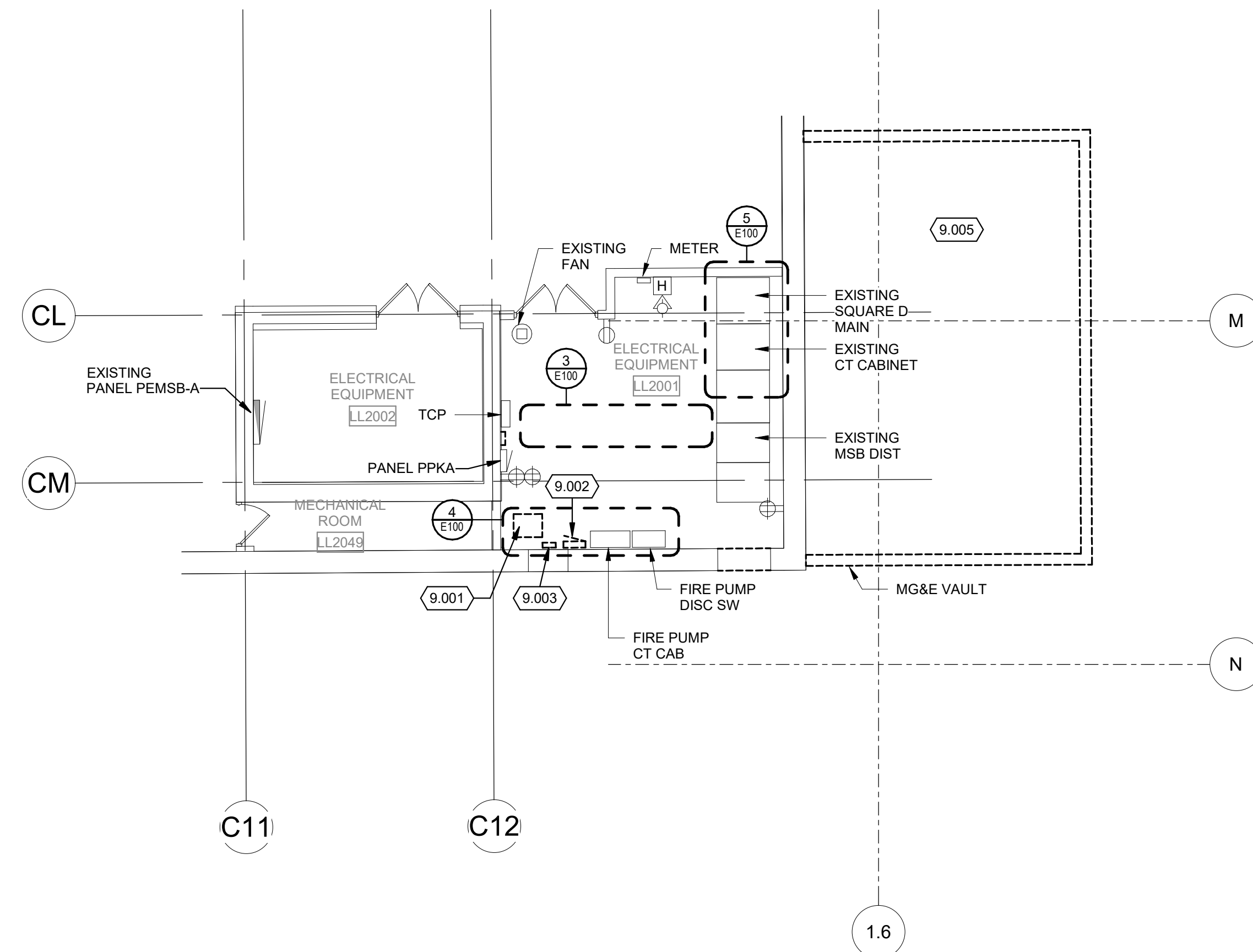
3 EXISTING CONDUITS AT CEILING
NO SCALE



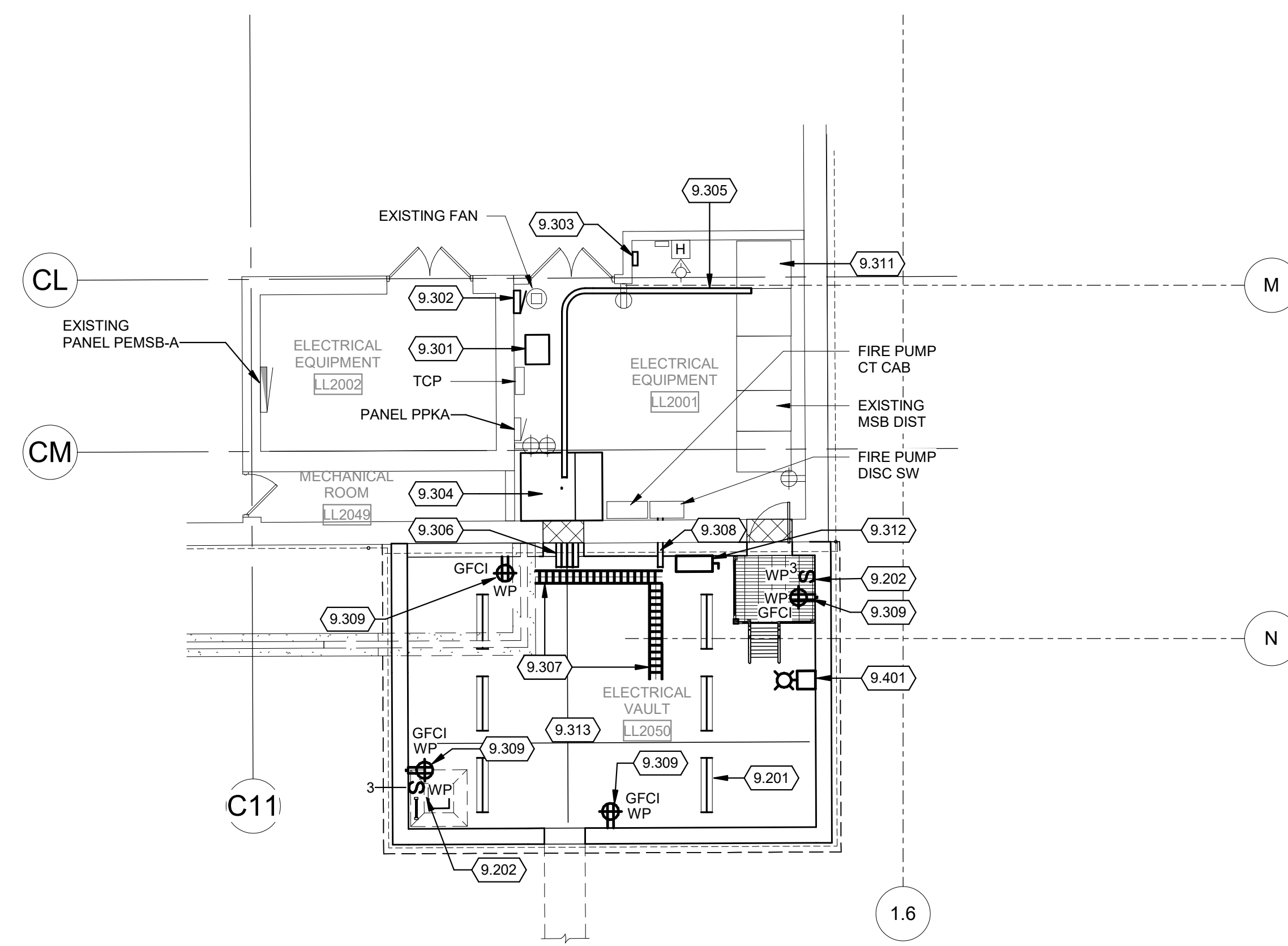
4 FIRE PUMP DISCONNECT - ELECTRICAL ROOM SOUTH WALL
NO SCALE



5 EXISTING SWITCHBOARD
NO SCALE



1 COURTHOUSE ELECTRICAL ROOM/ELECTRICAL VAULT - DEMOLITION
1/8" = 1'-0"



2 COURTHOUSE ELECTRICAL ROOM/ELECTRICAL VAULT - NEW WORK
1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

1. REFER TO SHEET E001 FOR NOTES, SYMBOLS, & ABBREVIATIONS.

POWER GENERAL NOTES:

1. REFER TO SHEET E001 FOR NOTES, SYMBOLS, & ABBREVIATIONS.
2. REFER TO MG&E MIS-3A DOCUMENT FOR CUSTOMER FURNISHED ELECTRICAL ITEMS FOR THE VAULT.
3. TRANSFORMERS, UTILITY SWITCHES, AND MODULES PROVIDED AND INSTALLED BY THE UTILITY. UTILITY SERVICES TO UTILITY EQUIPMENT INSTALLED BY THE UTILITY. COORDINATE LOCATIONS OF EQUIPMENT AND SECONDARY SERVICE FEEDER ROUTING REQUIREMENTS WITH UTILITY PRIOR TO INSTALL. COORDINATE PAD SIZES AND LOCATIONS WITH UTILITY PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL PERFORM A SHORT CIRCUIT AND ARC FLASH STUDY AND PROVIDE ARC FLASH LABELS. STUDY REQUIRED FOR NEW MAIN BREAKER, EXISTING SWITCHBOARD AND RELOCATED ELECTRICAL EQUIPMENT ONLY.
5. REPLACE ALL EXISTING CORRODED CONDUIT HANGERS IN EXISTING COURTHOUSE ELECTRICAL ROOM.
6. ALL LIGHTING FIXTURES AND RECEPTACLES IN THE NEW VAULT TO BE FED FROM SPARE BREAKER IN EXISTING PANEL PEMS-B.
7. INTERCEPT AND REROUTE EXISTING LIGHTNING PROTECTION GROUND RING AROUND NEW VAULT.

KEYED NOTES

- 9.001 EXISTING 48KVA TRANSFORMER TO BE RELOCATED. SEE DETAIL 2/E100 FOR NEW LOCATION.
- 9.002 EXISTING PANEL LPK TO BE RELOCATED. SEE DETAIL 2/E100 FOR NEW LOCATION.
- 9.003 EXISTING FIRE PUMP METER TO BE RELOCATED. SEE DETAIL 2/E100 FOR NEW LOCATION.
- 9.005 EXISTING MG&E VAULT TO BE DEMOLISHED. DEMOLITION TO BEGIN ONLY AFTER ELECTRICAL SERVICES HAS BEEN INSTALLED AND OPERATIONAL FROM NEW VAULT. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES, LIGHT SWITCHES, AND RECEPTACLES. DISCONNECT AND REMOVE EXISTING SECONDARY CONDUCTORS, CABLE TRAY, AND COLLECTOR BUS AFTER NEW SERVICE IS ENERGIZED.
- 9.201 PROVIDE (6) SURFACE MOUNT LITHONIA LIGHTING FIXTURES, #VAP 8000LM PCL WD MVOLT GZ10 40K 80CRI WITH SURFACE MOUNT BRACKET #VAPSMB.
- 9.202 PROVIDE WEATHERPROOF 3 WAY SWITCH FOR VAULT LIGHT FIXTURES.
- 9.301 RELOCATED 48KVA TRANSFORMER. CEILING MOUNT TRANSFORMER. EXTEND EXISTING GROUND CONDUCTOR TO NEW LOCATION.
- 9.302 RELOCATED PANEL LPK.
- 9.303 RELOCATED FIRE PUMP METER.
- 9.304 NEW 4000A MAIN BREAKER AND AUX SECTION (72" WIDE X 60" DEEP) - SQUARE D OED - MATCH EXISTING MAIN BREAKER KAIC RATING AND OPTIONS. PROVIDE 3-1/2" CONCRETE EQUIPMENT PAD. EQUIPMENT MUST FIT IN THE ALLOCATED SPACE. EXTEND EXISTING GROUND POINT TO NEW MAIN BREAKER SECTION.
- 9.305 (11) 4" GRC CONDUITS ROUTED OVERHEAD FROM NEW MAIN BREAKER TO PULL SECTION. PROVIDE TOP MOUNT PULLBOX SIZED AND LOCATED FOR NEW FEEDER INSTALLATION.
- 9.306 PROVIDE A DUCT PACKAGE FROM THE NEW 4000A MAIN BREAKER ENCLOSURE IN THE EXISTING COURTHOUSE ELECTRICAL ROOM MAIN DISCONNECT TO THE CABLE TRAY IN THE VAULT. DUCT PACKAGE TO BE AT 10" ABOVE VAULT FLOOR. SECONDARY CONDUCTOR DUCT PACKAGE CONSISTS OF (11) 4" CONDUITS WITH #4500KCMIL AND (1) #500KCMIL GND FOR THE 4000A SERVICE AND (1) 4" SPARE CONDUIT. PROVIDE (12) 5" PVC SCHEDULE 40 SLEEVES THROUGH VAULT WALL. SLEEVES TO BE INSTALLED 8" ON CENTER.
- 9.307 CABLE TRAY. SEE SPECIFICATION SECTION 26 05 36. COORDINATE EXACT CONFIGURATION WITH MG&E VAULT LAYOUT.
- 9.308 EXISTING FIRE PUMP DISCONNECT IS FED UNDERGROUND. REFEED FIRE PUMP DISCONNECT OVERHEAD FROM NEW VAULT - (1) 4" CONDUIT - #4500KCMIL. PROVIDE 5" SCHEDULE 40 PVC SLEEVE. UTILITY WILL TERMINATE FIRE PUMP SERVICE CONDUCTORS ON UTILITY PROVIDED SECONDARY COLLECTOR BUS.
- 9.309 PROVIDE WEATHERPROOF GFI DUPLEX OUTLET MOUNTED AT 44" ABOVE VAULT FLOOR.
- 9.311 SQUARE D TECHNICAL SERVICES SHALL MODIFY EXISTING SWITCHBOARD MAIN SECTION TO BECOME A PULL SECTION WITH OVERHEAD FEED.
- 9.312 ROUTE FROM PEMS-B THROUGH A DISCONNECT SWITCH FOR SINGLE POINT SHUT OFF OF POWER IN THE VAULT - PER MG&E REQUIREMENTS.
- 9.313 COORDINATE LOCATION OF UTILITY TRANSFORMER SECONDARY COLLECTOR BUS WITH UTILITY PRIOR TO ROUGH-IN. SECONDARY AND FIRE PUMP CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO ALLOW UTILITY TO APPROPRIATELY TERMINATE CONDUCTORS. COORDINATE EXACT LOCATION OF CONDUCTORS AND LENGTH OF CONDUCTORS WITH UTILITY PRIOR TO INSTALL.
- 9.401 PROVIDE FIRE ALARM STROBE NOTIFICATION DEVICE MOUNTED AT 7'10" ABOVE VAULT FLOOR. DEVICE SHOULD BE COMPATIBLE WITH THE EXISTING SIMPLEX 4100U COURTHOUSE FIRE ALARM PANEL. EXTEND NEAREST EXISTING NOTIFICATION CIRCUIT AND VERIFY CIRCUIT CAPACITY.

