

# CITY OF KALAMAZOO STATION 4 ROOF REPLACEMENT

2000 W. CROSSTOWN PKWY. KALAMAZOO, MI 49008

## CONTACT INFORMATION:

**OWNER:**  
NAME: CITY OF KALAMAZOO  
ADDRESS: 415 E. STOCKBRIDGE AVE  
KALAMAZOO, MI 49001  
PHONE: (269) 337-8000  
CONTACT: ANNA CRANDALL, PE  
ASSISTANT CITY ENGINEER –  
WATER RESOURCES DIVISION  
EMAIL: CRANDALLA@KALAMAZOOCITY.ORG  
CONTACT PHONE: (269) 337-8055

**BUILDING OFFICIAL:**  
NAME: ROGER IVESON  
ADDRESS: 245 N. ROSE ST.  
KALAMAZOO, MI 49007  
PHONE: (269) 337-8000

**ARCHITECT/ENGINEER:**  
WIGHTMAN & ASSOCIATES, INC.  
433 E. RANSOM ST.  
KALAMAZOO, MI 49007

**ENGINEER CONTACT:** FRANK RENALDI  
PHONE: (269) 487-9659  
EMAIL: FRENALDI@GOWIGHTMAN.COM

**ARCHITECT CONTACT:** EMMANUEL KOLLIAS  
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EMAIL: EKOLLIAS@GOWIGHTMAN.COM

## GENERAL NOTES:

- ALL WORK SHALL CONFORM TO ALL LOCAL AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- ARCHITECTURAL WORK SHALL BE IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE.
- ALL WORK SHALL CONFORM TO THE MICHIGAN HANDICAPPED ACCESSIBILITY CODE & THE AMERICANS W/ DISABILITIES ACT.
- IF ANY ERRORS, OMISSIONS, OR DISCREPANCIES BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD.
- THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL NOT ORDER EQUIPMENT OR FABRICATE BUILDING COMPONENTS WITHOUT FIRST FIELD VERIFYING ALL DIMENSIONS.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF DISCREPANCIES BETWEEN THE EXISTING BUILT ENVIRONMENT AND THE PLANS.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN A MANNER TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- NOTIFY "MISS DIG" (811) AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION FOR THE LOCATION OF ANY UNDERGROUND UTILITIES. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.

LEGAL TABLE	
LEGAL JURISDICTION:	CITY OF KALAMAZOO, MICHIGAN
BUILDING CODE:	2015 MICHIGAN REHABILITATION CODE
MECHANICAL CODE:	NA
PLUMBING CODE:	NA
ELECTRICAL CODE:	NA
FIRE CODE:	NA
TYPE OF CONSTRUCTION:	VB
NEW BUILDING AREA:	NA
EXISTING BUILDING AREA:	2423 SQ. FT. (APPROX)
OCCUPANT LOAD:	NA - UNCHANGED

NOTE: THIS PROJECT CONSISTS OF AN EARTHEN ROOFING TEAR OFF AND CONSTRUCTION OF A NEW ROOF AND ITS ASSOCIATED STRUCTURE. THIS NEW SCOPE OF WORK IS NOT TO IMPACT THE EXISTING BUILDING'S OCCUPANCY, EGRESS, OR USE. ALL WORK TO BE PERFORMED IS EXTERIOR TO THE BUILDING SHELL.

SHEET LIST	
SHEET NO.	SHEET TITLE
G100	TITLE SHEET
CG100	SITE GRADING & SESC PLAN
AD100	DEMOLITION
A101	ROOF PLAN
A200	EXTERIOR ELEVATIONS
A201	EXTERIOR ELEVATIONS
A300	SECTIONS & DETAILS

## ABBREVIATIONS

A.B.	ANCHOR BOLTS
A.C.T.	ACOUSTICAL COMPOSITE TILE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
ALT.	ALTERNATE
ALUM.	ALUMINUM
AUX.	AUXILIARY
B.F.C.	BELOW FINISHED CEILING
B.O.	BOTTOM OF
BD.	BOARD
BLDG	BUILDING
BLKG.	BLOCKING
BM.	BEAM
BTM.	BOTTOM
C.	CONCUIT
C.W.	COLD WATER
CL	CENTER LINE
CLG.	CEILING
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CPT.	CARPET
CTR.	CENTER
DBL	DOUBLE
DIA.	DIAMETER
DN	DOWN
DWG.	DRAWING
E.F.	EXHAUST FAN
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EX.	EXHAUST
EXIST.	EXISTING
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.P.H.B.	FREEZE POINT OF HOSE BIBB
FIN. FL.	FINISHED FLOOR
FND.	FOUNDATION
FRP	FIBERGLASS REINFORCED PANEL
FT.	FOOT
FTG.	FOOTING
G.C.	GENERAL CONTRACTOR
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
GPM.	GALLONS PER MINUTE
GRD.	GROUND
GYP. BD.	GYPSPUM BOARD
H.M.	HOLLOW METAL
H.P.	HORSE POWER, HIGH POINT
H.W.	HOT WATER
HORIZ.	HORIZONTAL
HT.	HEIGHT
INUSL.	INSULATION
J.C.	JANITORS CLOSET
L.P.	LOW POINT
LAM.	LAMINATE
LAV.	LAVATORY
LG.	LONG
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL

## ABBREVIATIONS

LOC.	LOCATE
MAS.	MASONRY
MAX.	MAXIMUM
MDP.	MODIFIED PROCTOR
MECH.	MECHANICAL
MFGR.	MANUFACTURERS
MFR.	MANUFACTURES
MIN.	MINIMUM
MTD.	MOUNTED
MTL.	METAL
N.I.C	NOT IN CONTRACT
NA	NOT APPLICABLE
O.C.	ON CENTER
O.D.	OUTSIDE DIMENSION
O.H.	OVERHANG
O/O	OUT TO OUT
OSB	ORIENTED STRAND BOARD
P.R.	PROXIMITY READER
P.T.	PRESSURE TREATED
PL	PLATE
PLYWD.,	PLYWOOD
PLWD.	PLYWOOD
PRE-FAB.	PREFABRICATED
PRE-FIN.	PREFINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN.	PARTITION
PVC	POLYVINYL CHLORIDE
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
RECEPT.	RECEPTACLE
REINF.	REINFORCING
RM.	ROOM
S.S.	STAINLESS STEEL
S.V.	SHEET VINYL
SQ.	SQUARE
STL.	STEEL
STRUC.	STRUCTURAL
SURF.	SURFACE MOUNTED
MTD.	
T&G	TONGUE AND GROOVE
T.C.	TOP OF CURVE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALKWAY
TYP.	TYPICAL
U.D.	UNIT DIMENSION
U.N.O.	UNLESS NOTED OTHERWISE
V.B.	VAPOR BARRIER
V.T.R.	VENT THRU ROOF
VCT	VINYL COMPOSITE TILE
VEN.	VENEER
VERT.	VERTICAL
VEST.	VESTIBULE
W.	WIDE, WASTE
W.C.	WATER CLOSET
W.C.O.	WALL CLEAN OUT
W.H.	WATER HEATER
W.P.	WATER PROOF
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
w/	WITH
WD.	WOOD



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1 ISSUE FOR BID 2.14.2022

REVISIONS

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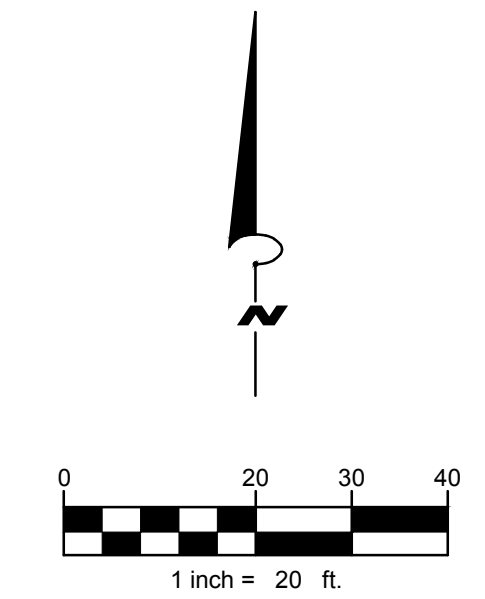
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SCALE: 1/4" = 1'-0"

TITLE SHEET

JOB NO: 214089

**G100**



**GRADING NOTES**

- ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE WITH EXCAVATOR, AND LANDSCAPE SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
- ALL EARTHEN SLOPES SHALL BE LESS THAN 3:1 UNLESS OTHERWISE NOTED
- THE CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AT THE GRADING LIMITS UNLESS OTHERWISE NOTED

**GRADING LEGEND**

--- XXX ---	EXISTING CONTOUR
--- XXX ---	PROPOSED CONTOUR
---	RIDGE
---	RIDGE LINE
---	PROPOSED SWALE

**SOIL EROSION & SEDIMENTATION CONTROL NOTES**

- ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE COUNTY "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUIRED BY THE "PERMIT BY RULE" EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
  - AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE COVER AREAS ACT AS SEDIMENT FILTERS.
  - ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
  - GEOTEXTILE SILT FENCE SHALL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
  - MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
- NUMBER IN CIRCLE REFERS TO NUMBERED DETAILS ON MDOT STANDARD PLAN R-96 SERIES, SOIL EROSION & SEDIMENTATION CONTROL MEASURES. "P" DENOTES PERMANENT MEASURE AND "T" DENOTES TEMPORARY MEASURE. SOIL EROSION CONTROL PLANS DENOTE MINIMUM EROSION MEASURES REQUIRED AS DESCRIBED BELOW.
- 3P DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, SALV. 3 INCH, MDOT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 176 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 228 LB/ACRE; MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
  - 7P DENOTES RIPRAP. INSTALL RIPRAP, PLAIN AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN PAY ITEM SHALL INCLUDE A GEOTEXTILE UNDERLAYMENT.
  - 14T DENOTES GRAVEL ACCESS APPROACH. APPROACH SHALL BE INSTALLED TO PROVIDE STABLE ACCESS TO ROADWAYS AND MINIMIZE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS. CONSTRUCT PER TEMPORARY CONSTRUCTION ENTRANCE DETAIL.
  - 26T DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
  - 33 MB DENOTES MULCH BLANKETS. MULCH BLANKET SHALL BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS, AT SLOPES GREATER THAN 1:3, AREAS WITH CONCENTRATED FLOWS, AND AS DIRECTED BY THE ENGINEER IN THE FIELD, TO PREVENT RUNOFF AND EROSION.

**EROSION CONTROL LEGEND**

	SEEDING WITH FIBER BLANKET NORTH AMERICAN GREEN S150BN
	RIP-RAP
	TEMPORARY CONSTRUCTION ENTRANCE

**LEGEND**

---	EXISTING ELECTRIC LINE (OVERHEAD)
---	EXISTING ELECTRIC LINE (UNDERGROUND)
---	EXISTING FENCE
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	EXISTING STORM SEWER
---	EXISTING TELECOMMUNICATIONS
---	EXISTING GAS MAIN
---	EXISTING WATER MAIN
---	EXISTING CENTER LINE
---	PROPERTY LINE/EASEMENT LINE
---	RIGHT-OF-WAY LINE
---	SECTION LINE
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED FENCE
---	PROPOSED STORM SEWER
---	SILT FENCE
---	LIMITS OF CONSTRUCTION
---	POWER POLE
---	GUY WIRE ANCHOR
---	BENCHMARK

**CUT AND FILL QUANTITIES:**

CUT = 535 CYD  
 FILL = 3 CYD  
 NET = 532 CYD (CUT)

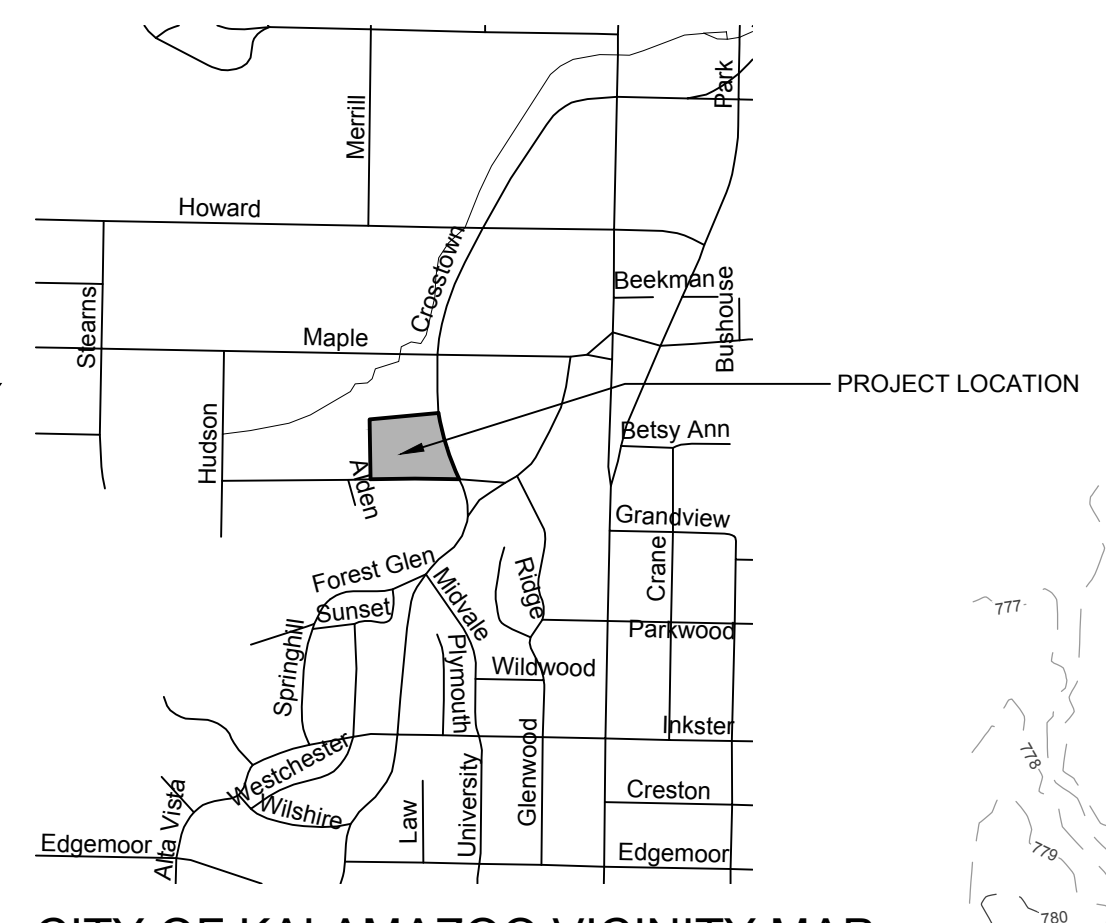
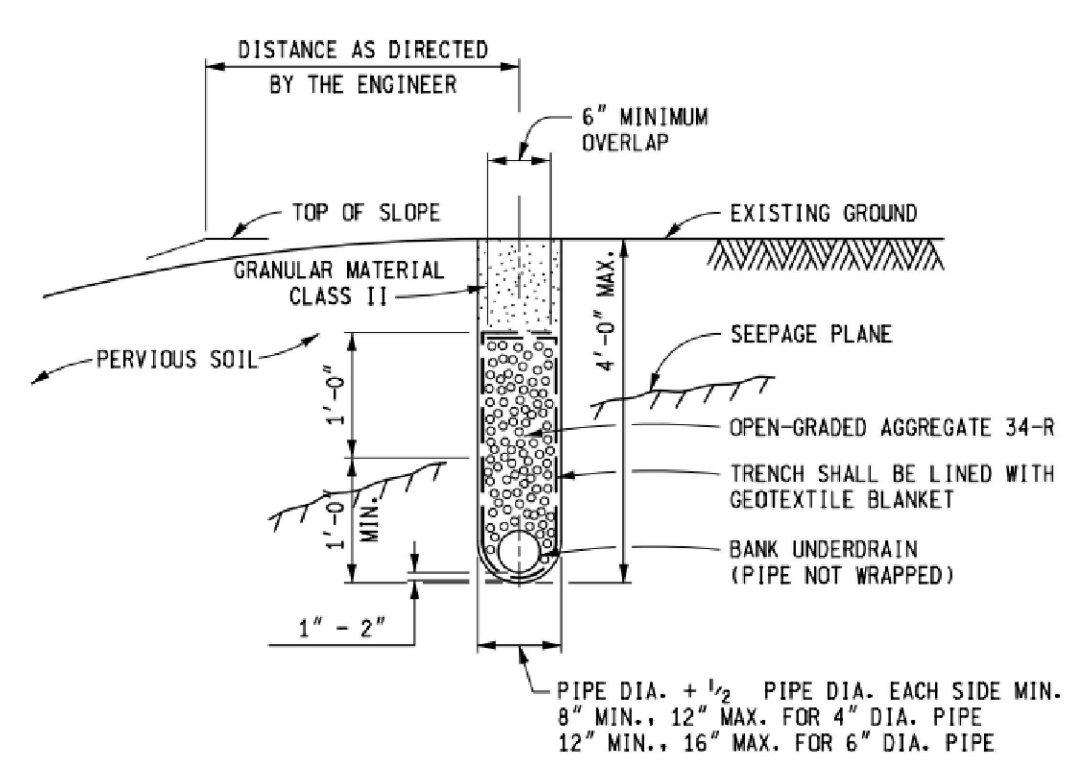


**NOTIFY UTILITY COMPANIES BEFORE YOU DIG**

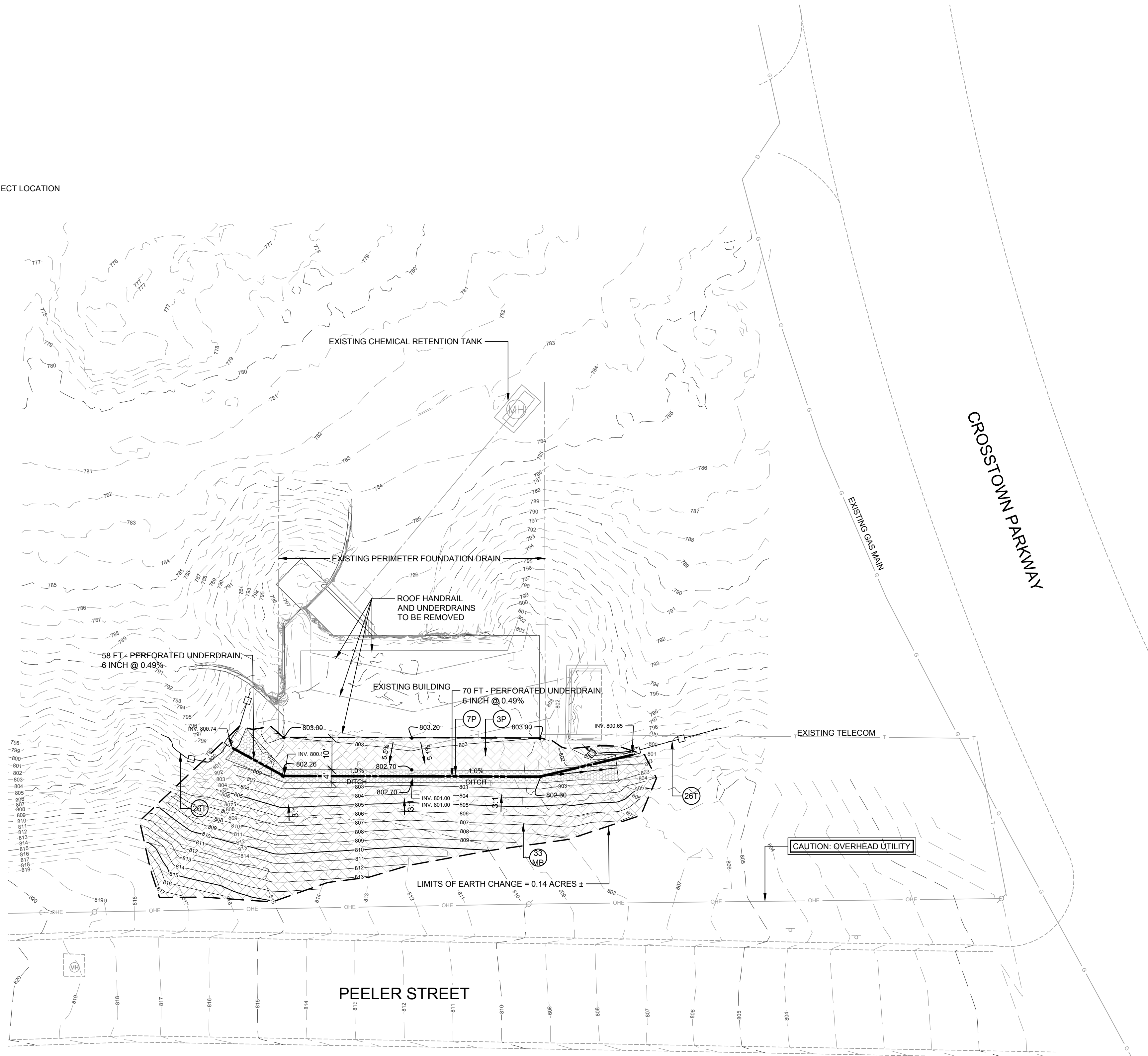
IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES. A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

**MDOT DETAIL R-80-F: BANK UNDERDRAIN, OPEN-GRADED**

SCALE: NONE



**CITY OF KALAMAZOO VICINITY MAP**  
 SCALE: 1" = 1,000'

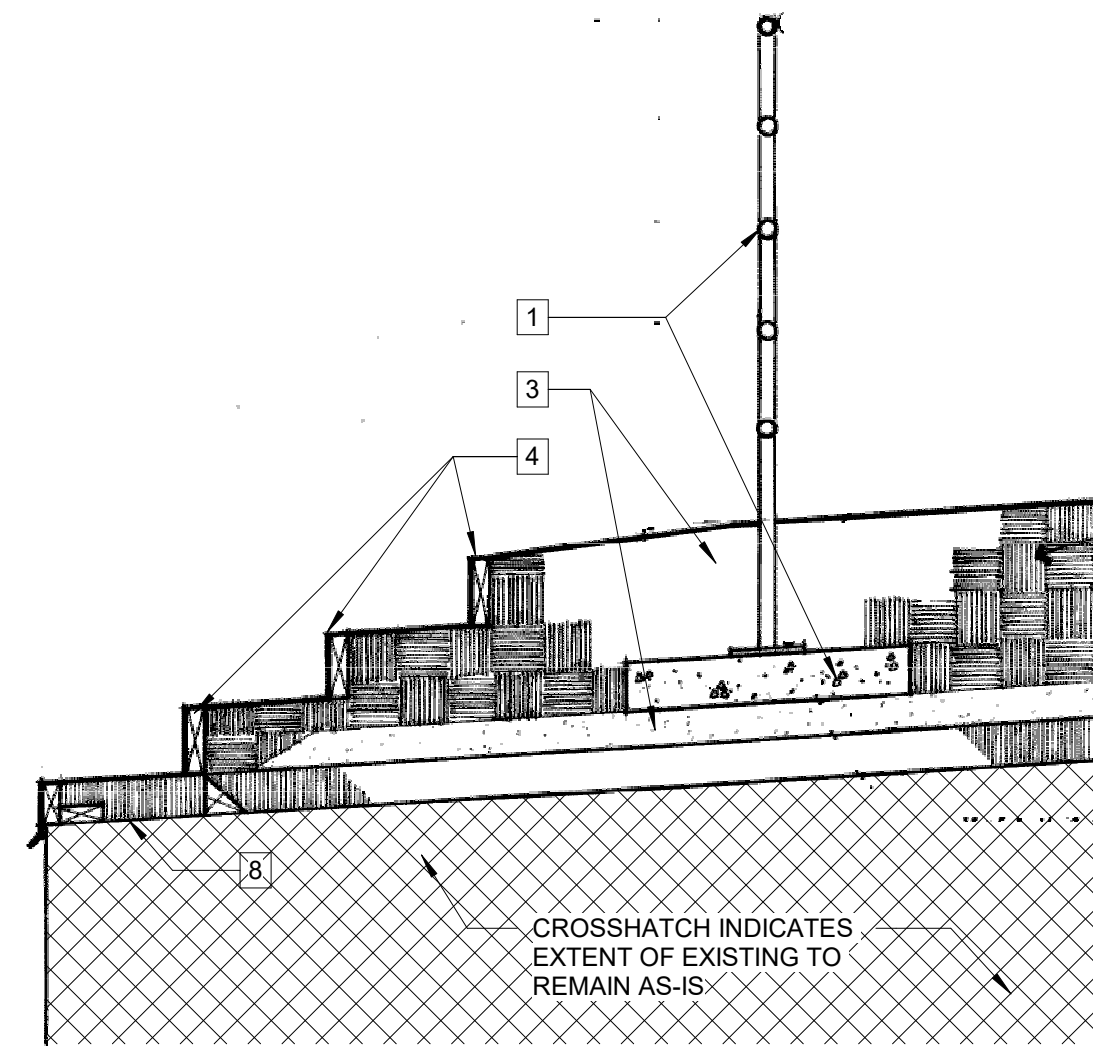


**DEMOLITION KEY NOTES:**

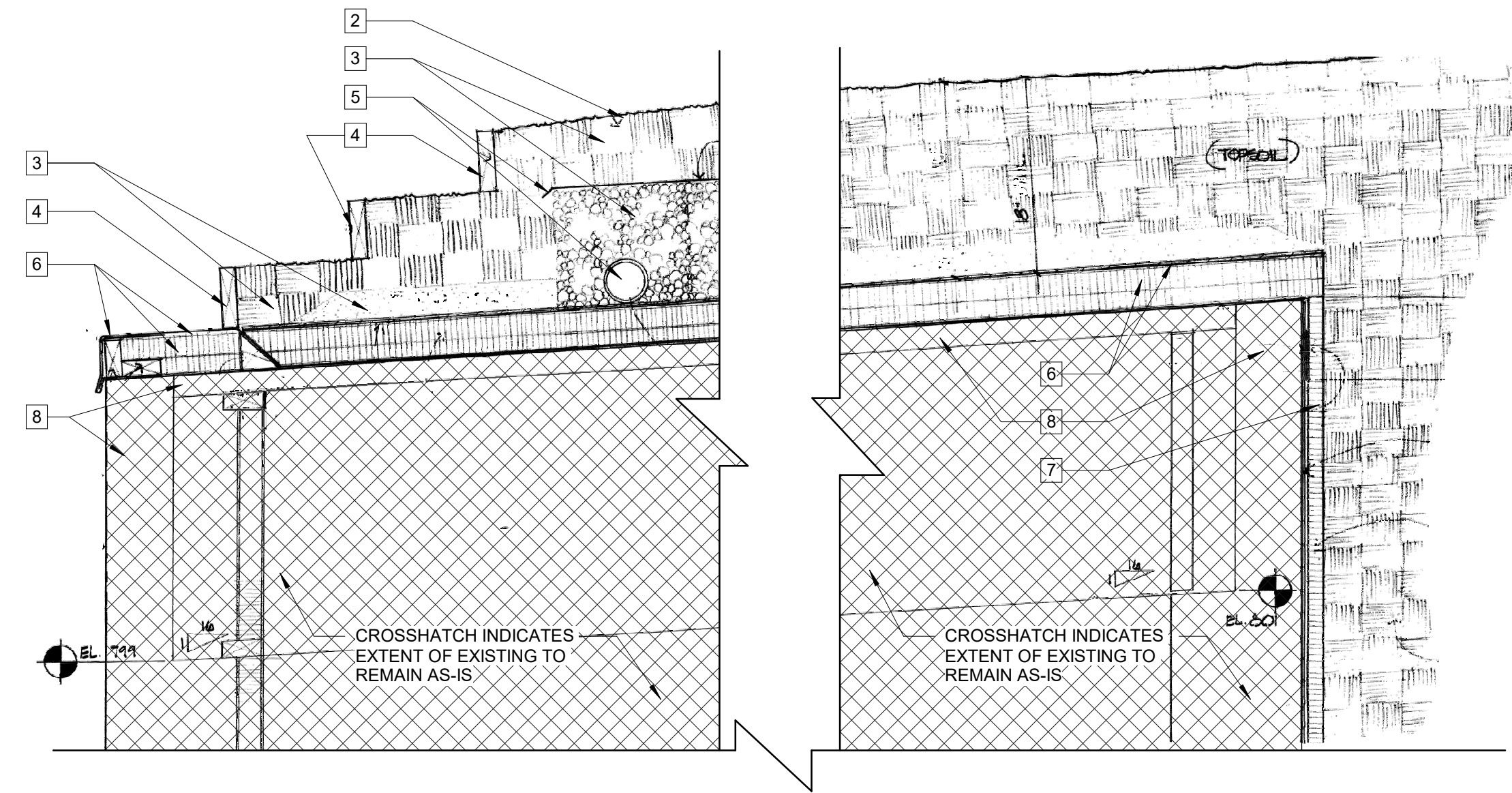
1. REMOVE EXISTING RAILING INDICATED IN ITS ENTIRETY INCLUDING ALL ASSOCIATED COMPONENTS. (NOTE: A PORTION OF THE EXISTING RAILING THAT IS NOT DIRECTLY CONNECTED TO THE EXISTING ROOF SHOULD REMAIN IN PLACE AS INDICATED. THE NEW GUARD RAIL SYSTEM WILL TIE INTO IT.)
2. COMPLETELY REMOVE ALL VEGETATION FROM EXISTING ROOF STRUCTURE. (SEE SITE PLAN/GRADING PLAN FOR VEGETATION REMOVAL.) IF VEGETATION REMOVAL WILL CAUSE DAMAGE TO STRUCTURE, INFORM ARCHITECT IMMEDIATELY.
3. COMPLETELY REMOVE ALL SOIL MATERIALS FROM ROOF STRUCTURE. (SEE SITE PLAN/GRADING PLAN.)
4. REMOVE ALL REMNANTS OF ROTTABLE WOOD RETAINERS INCLUDING ALL ANCHORS, ATTACHMENTS AND ACCESSORIES.
5. REMOVE ALL DRAINAGE MATERIALS (PIPING, GUTTER, SCUPPER, ETC.) THAT ARE PART OF EARTHEN ROOF DRAINAGE SYSTEM FROM THE ROOF STRUCTURE.
6. REMOVE MEMBRANE ROOFING SYSTEM AND ALL ASSOCIATED ACCESSORIES (MEMBRANE, BLOCKING, INSULATION, FLASHING, ANCHORS, ATTACHMENTS, TRIM, ETC.)
7. REMOVE RIGID INSULATION AND ANY LOOSE COMPONENTS OF WATERPROOFING SYSTEM FROM EXTERIOR WALL AS REQUIRED FOR INSTALLATION OF NEW WORK.
8. CLEAN EXISTING CONCRETE ROOF STRUCTURE OF ALL DEBRIS OR DELETERIOUS MATERIALS AND PREPARE SURFACE FOR INSTALLATION OF NEW ROOFING MATERIALS. COORDINATE WITH ROOFING INSTALLER.
9. REMOVE LOOSE OR DAMAGED SEALANTS FROM ALL EXISTING EXTERIOR STRUCTURE.
10. DASHED LINE - INDICATES LINE OF BUILDING BELOW EXISTING GRADE.
11. EXISTING EXTERIOR STRUCTURE OR RETAINING WALL TO REMAIN. TAKE CARE NOT TO DAMAGE EXISTING FINISHES. IF DAMAGE OCCURS, REPAIR TO MATCH ADJACENT EXISTING FINISH.

**DEMOLITION GENERAL NOTES:**

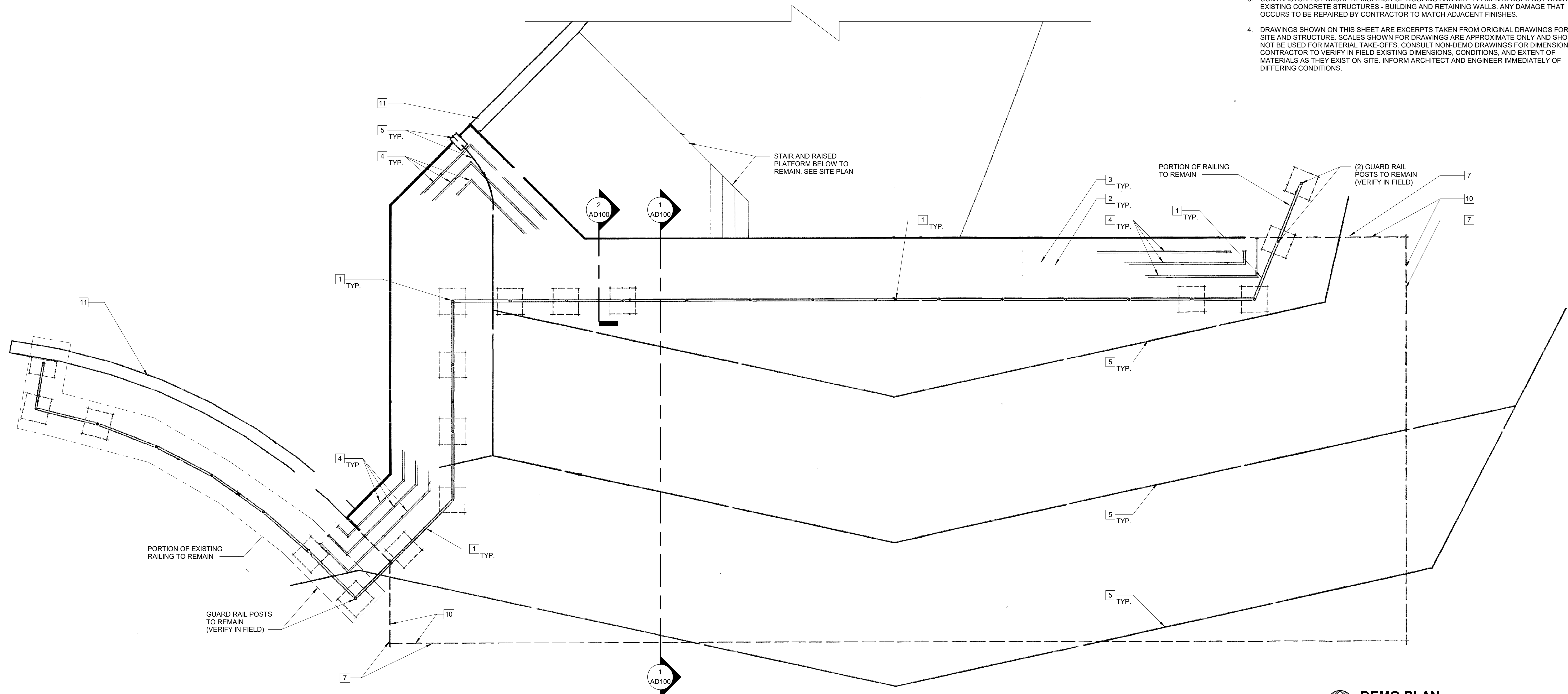
1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES AND COORDINATE WITH DEMO WORK TO BE COMPLETED.
2. SEE CIVIL DRAWINGS FOR FULL EXTENT OF SITE DEMOLITION
3. CONTRACTOR TO ENSURE DEMOLITION OF ROOFING AND SITE ELEMENTS DOES NOT DAMAGE EXISTING CONCRETE STRUCTURES - BUILDING AND RETAINING WALLS. ANY DAMAGE THAT OCCURS TO BE REPAIRED BY CONTRACTOR TO MATCH ADJACENT FINISHES.
4. DRAWINGS SHOWN ON THIS SHEET ARE EXCERPTS TAKEN FROM ORIGINAL DRAWINGS FOR THIS SITE AND STRUCTURE. SCALES SHOWN FOR DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE USED FOR MATERIAL TAKE-OFFS. CONSULT NON-DEMO DRAWINGS FOR DIMENSIONS. CONTRACTOR TO VERIFY IN FIELD EXISTING DIMENSIONS, CONDITIONS, AND EXTENT OF MATERIALS AS THEY EXIST ON SITE. INFORM ARCHITECT AND ENGINEER IMMEDIATELY OF DIFFERING CONDITIONS.



2 **EXISTING RAILING TO BE REMOVED**  
AD100 SCALE: 3/4" = 1'-0"



1 **EXISTING BUILDING SECTION**  
AD100 SCALE: 1" = 1'-0"





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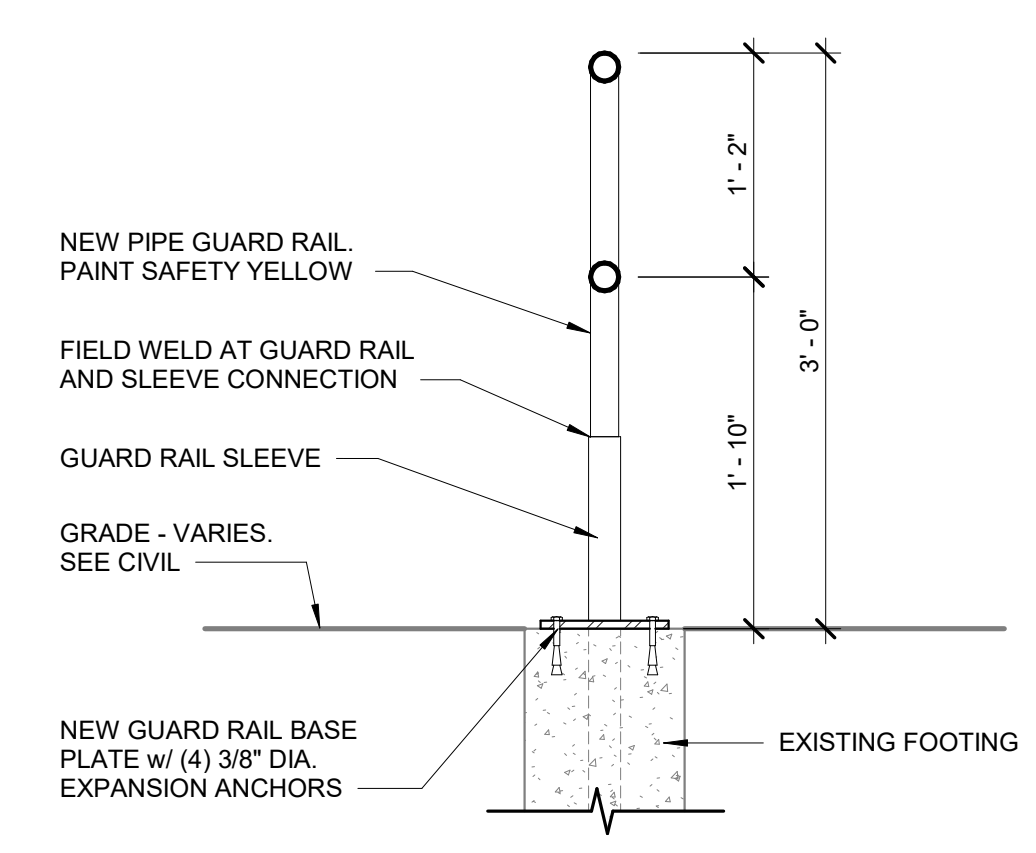
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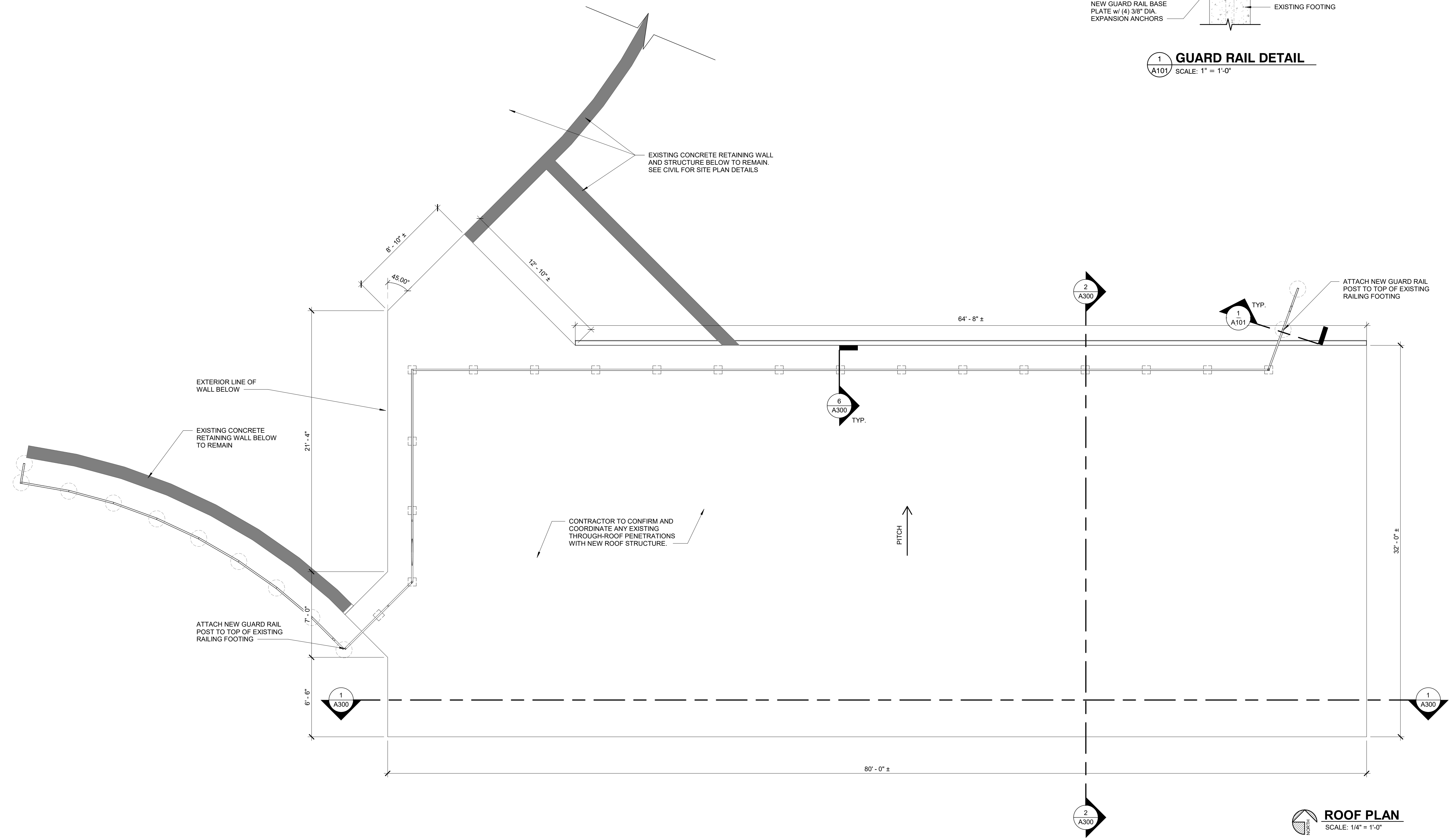
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 SCALE: As indicated

## ROOF PLAN

JOB NO: 214089  
**A101**



**1**  
A101 **GUARD RAIL DETAIL**  
SCALE: 1" = 1'-0"



**2**  
A300 **ROOF PLAN**  
SCALE: 1/4" = 1'-0"



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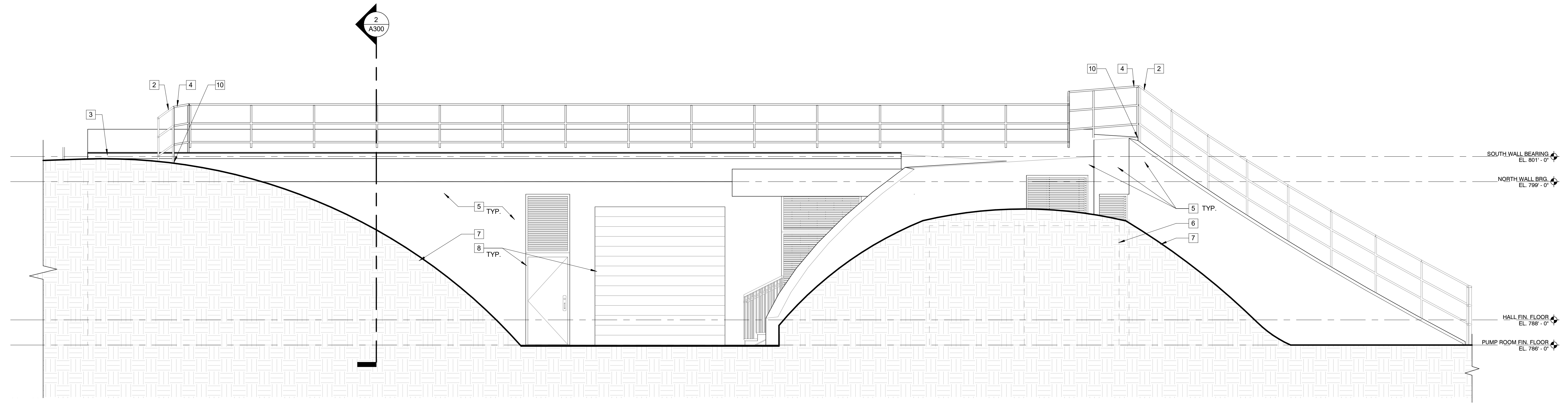
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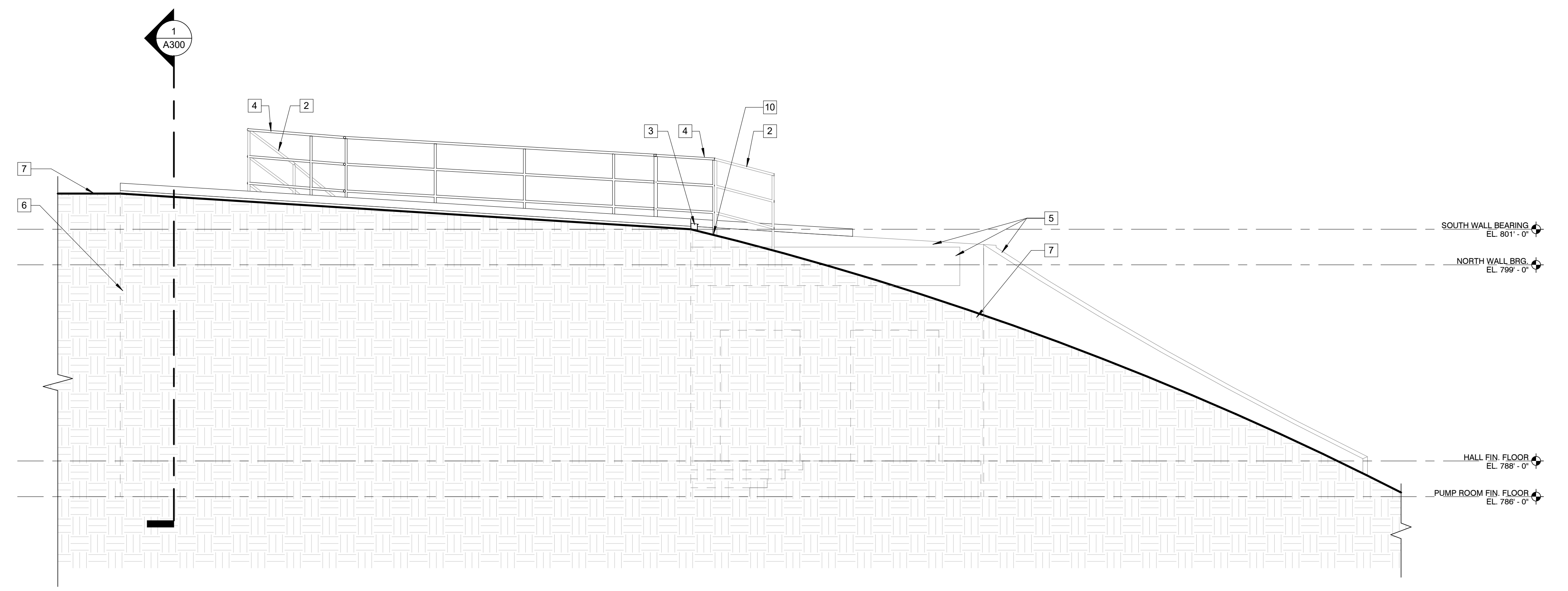
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## EXTERIOR ELEVATIONS

JOB NO: 214089  
**A200**



**NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**EAST ELEVATION**  
SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION SHEET NOTES	
1.	NEW TPO ROOF SLOPED 1" PER 12" . SEE ROOF PLAN AND SPECIFICATIONS
2.	PORTION OF EXISTING RAILING TO REMAIN. CLEAN AND PREPARE RAILING FOR NEW PAINT - PAINT SAFETY YELLOW
3.	PRE-FINISHED METAL GUTTER & DOWNSPOUT
4.	NEW PIPE GUARD RAIL - PAINT SAFETY YELLOW
5.	EXISTING STRUCTURE TO REMAIN
6.	EXISTING SUB-GRADE STRUCTURE TO REMAIN
7.	SEE CIVIL DRAWINGS FOR FULL SITE INFORMATION. GRADE SHOWN ON ELEVATIONS ARE FOR DIAGRAMMATIC VISUAL PURPOSES ONLY
8.	ALL EXISTING DOORS, VENTS, LOUVERS, AND WINDOWS IN EXISTING WALLS TO REMAIN
9.	CONTRACTOR TO EVALUATE SEALANTS AT ALL EXTERIOR JOINTS (STRUCTURE, WALLS, WINDOWS, VENTS ETC.) AND REMOVE DETERIORATED SEALANT COMPLETELY, AND REPLACE WITH APPROPRIATE NEW SEALANT FOR WEATHERTIGHT APPLICATION
10.	ATTACH NEW GUARD RAIL POST TO TOP OF EXISTING RAILING FOOTING
<b>NOTES:</b> SEE TECHNICAL SPECIFICATIONS FOR FULL PRODUCT AND SYSTEMS INFORMATION.	



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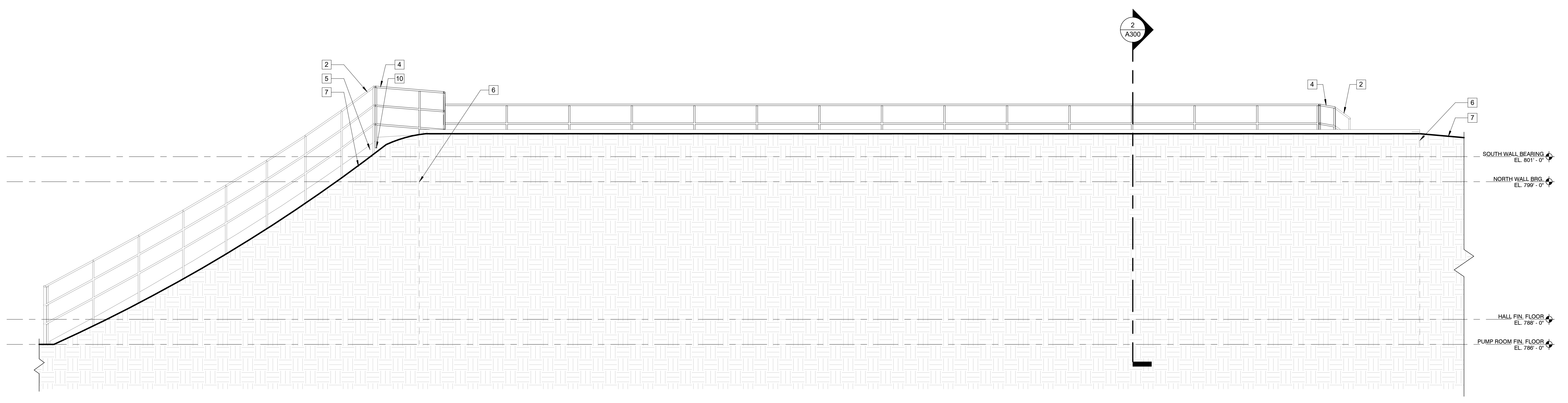
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KALAMAZOO, MI 49001

2	REVISED PER CITY COMMENTS	2.14.2023
1	ISSUE FOR BID	2.14.2022

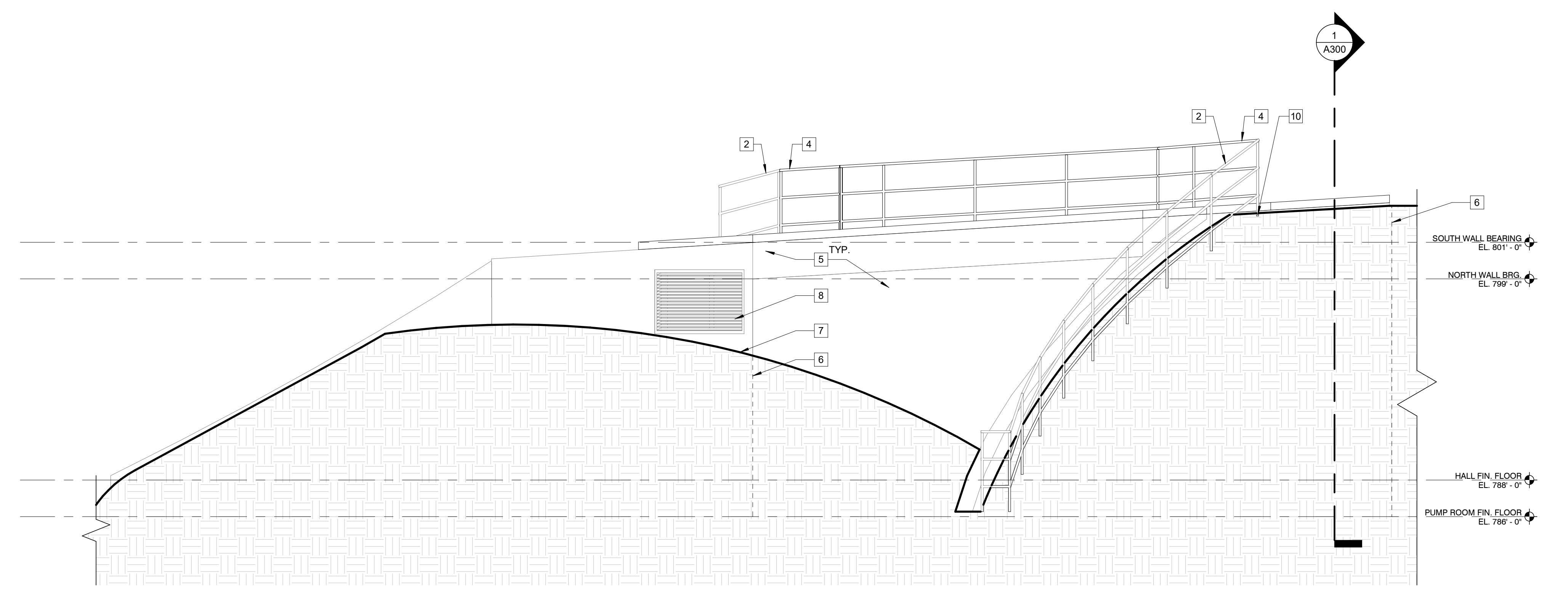
REVISIONS  
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 DATE: 2/14/2022  
 SCALE: 1/4" = 1'-0"

## EXTERIOR ELEVATIONS

JOB NO: 214089  
**A201**



**SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"

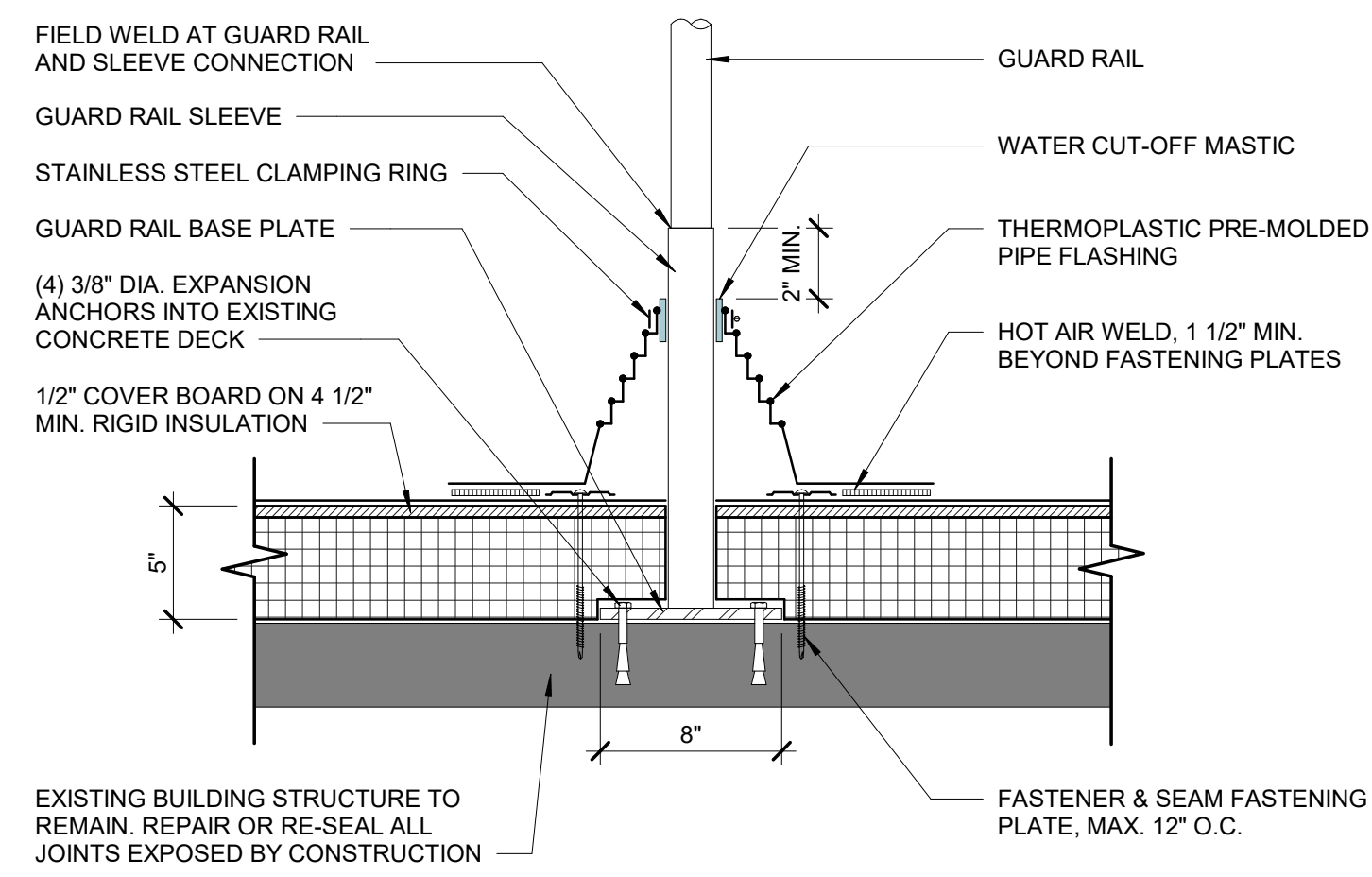


**WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

### EXTERIOR ELEVATION SHEET NOTES

1. NEW TPO ROOF SLOPED 1" PER 12" . SEE ROOF PLAN AND SPECIFICATIONS
2. PORTION OF EXISTING RAILING TO REMAIN. CLEAN AND PREPARE RAILING FOR NEW PAINT - PAINT SAFETY YELLOW
3. PRE-FINISHED METAL GUTTER & DOWNSPOUT
4. NEW PIPE GUARD RAIL - PAINT SAFETY YELLOW
5. EXISTING STRUCTURE TO REMAIN
6. EXISTING SUB-GRADE STRUCTURE TO REMAIN
7. SEE CIVIL DRAWINGS FOR FULL SITE INFORMATION. GRADE SHOWN ON ELEVATIONS ARE FOR DIAGRAMMATIC VISUAL PURPOSES ONLY
8. ALL EXISTING DOORS, VENTS, LOUVERS, AND WINDOWS IN EXISTING WALLS TO REMAIN
9. CONTRACTOR TO EVALUATE SEALANTS AT ALL EXTERIOR JOINTS (STRUCTURE, WALLS, WINDOWS, VENTS ETC.) AND REMOVE DEGRADATED SEALANT COMPLETELY, AND REPLACE WITH APPROPRIATE NEW SEALANT FOR WEATHERTIGHT APPLICATION
10. ATTACH NEW GUARD RAIL POST TO TOP OF EXISTING RAILING FOOTING

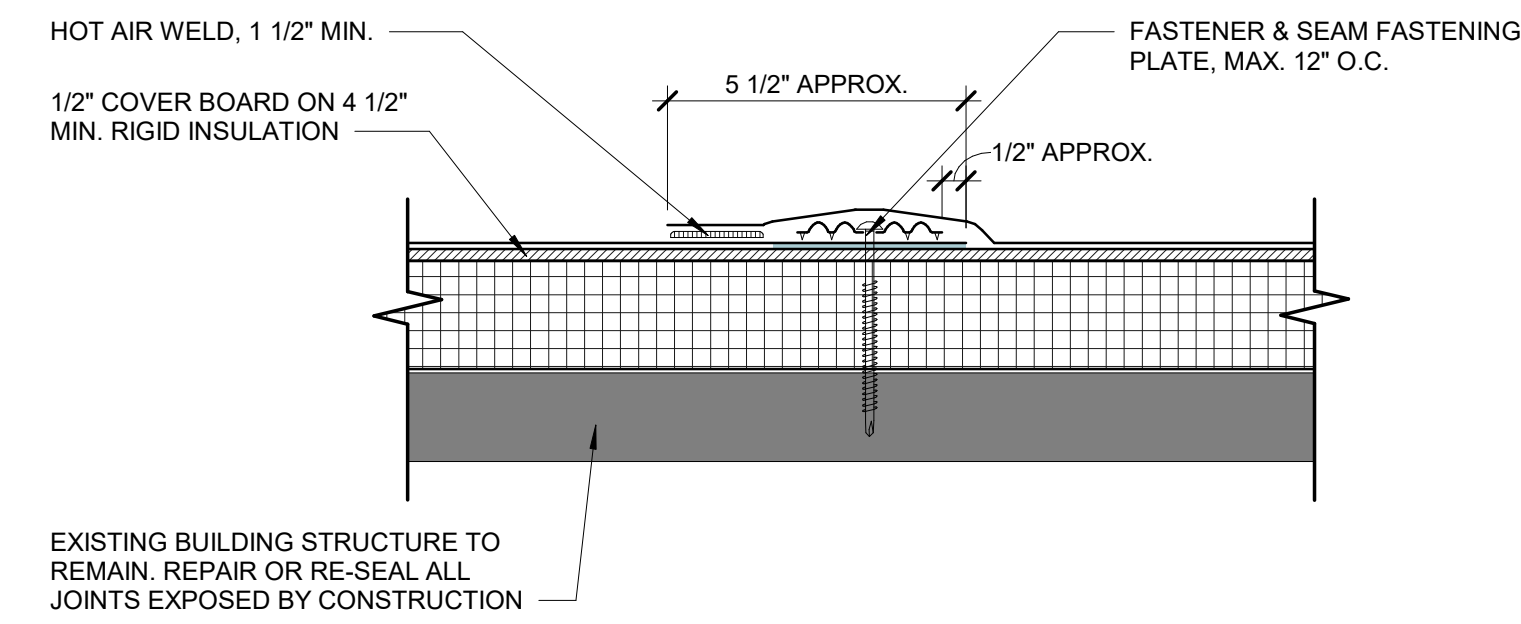
**NOTES:**  
SEE TECHNICAL SPECIFICATIONS FOR FULL PRODUCT AND SYSTEMS INFORMATION.



**NOTES:**

1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PRE-MOLDED PIPE FLASHING.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING.
3. PRE-MOLDED PIPE FLASHING MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER.
4. INSTALL A MINIMUM OF 4 FASTENERS AND PLATES AROUND THE PIPE, EQUALLY SPACED. IF FASTENERS AND PLATES CANNOT BE INSTALLED AS SHOWN, THEY MAY ALSO BE POSITIONED OUTSIDE THE PIPE MAXIMUM 12\"/>

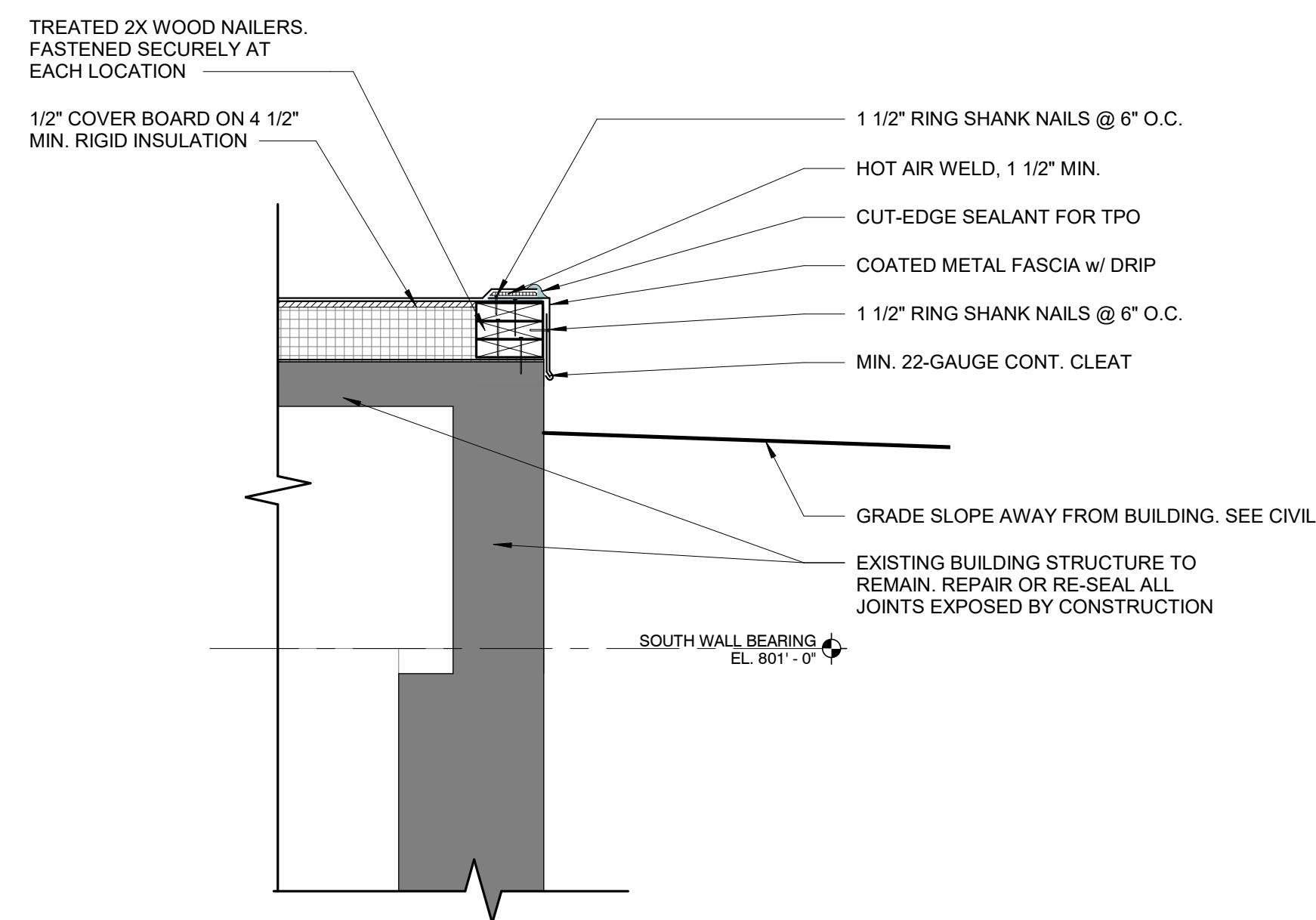
**6 TYP. PRE-MOLDED PIPE FLASHING DETAIL**  
SCALE: 1 1/2\"/>



**NOTES:**

1. ON MECHANICALLY FASTENED SYSTEMS, HP-X FASTENERS AND PIRANHA PLATES OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD-10 OR HD 14-10 FASTENERS ARE USED WITH PIRANHA PLATES.
2. POSITION SEAM FASTENING PLATES BEYOND NON-REINFORCED ENCAPSULATED EDGE.
3. APPROXIMATELY 1/8\"/>

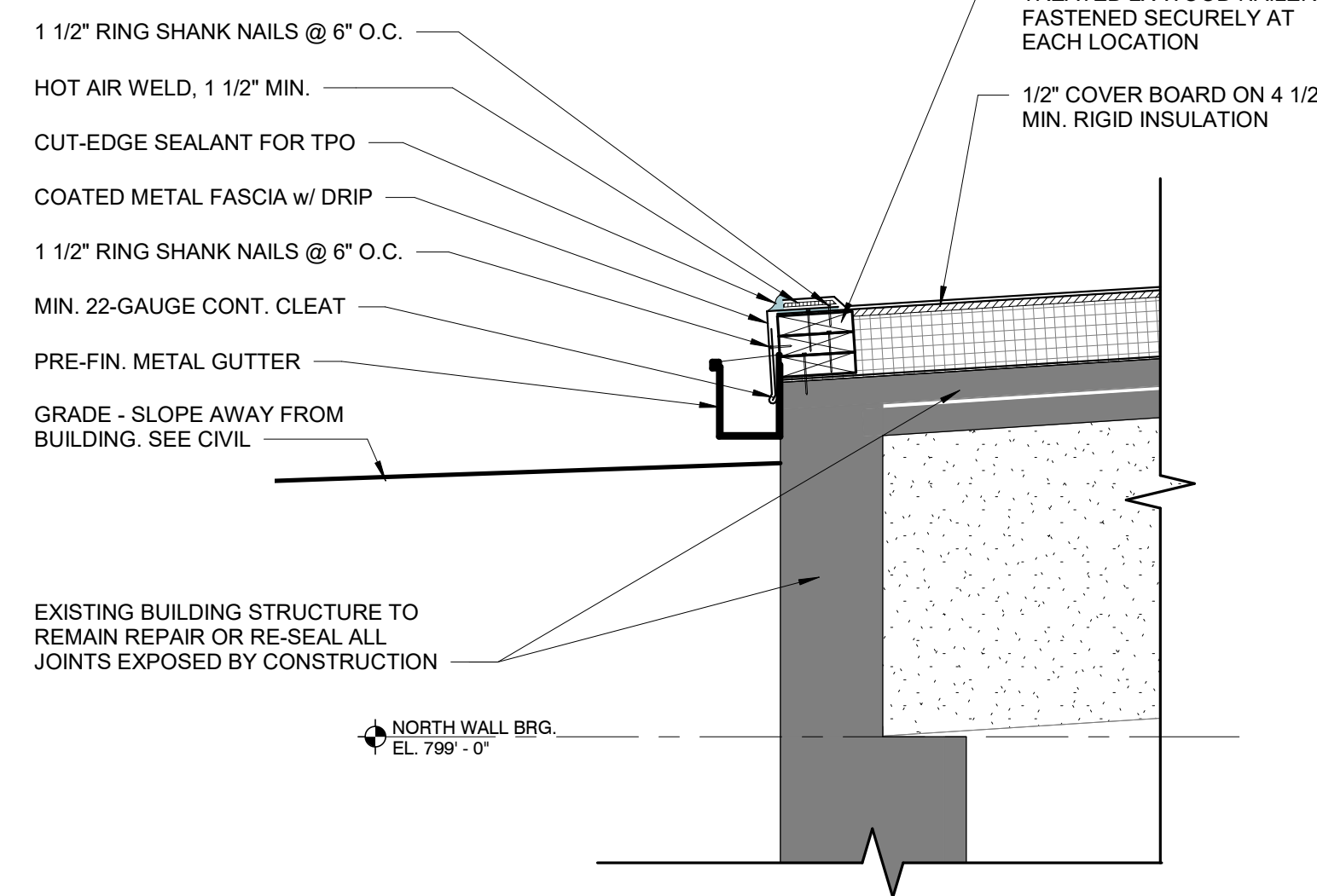
**5 TYP. MEMBRANE SECUREMENT DETAIL**  
SCALE: NOT TO SCALE



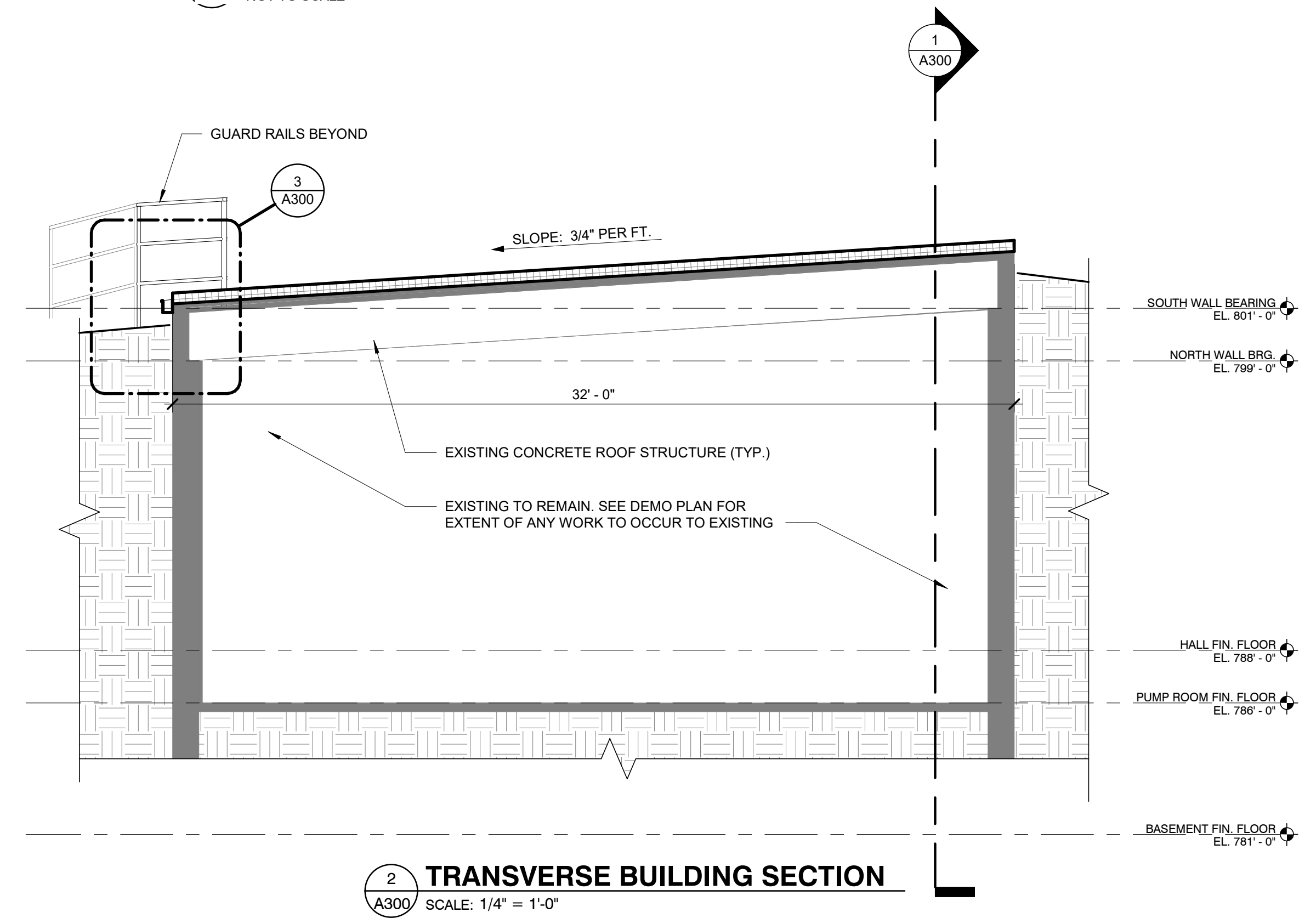
**4 WALL SECTION @ EAVE ROOF EDGE**  
SCALE: 1\"/>

**NOTES:**

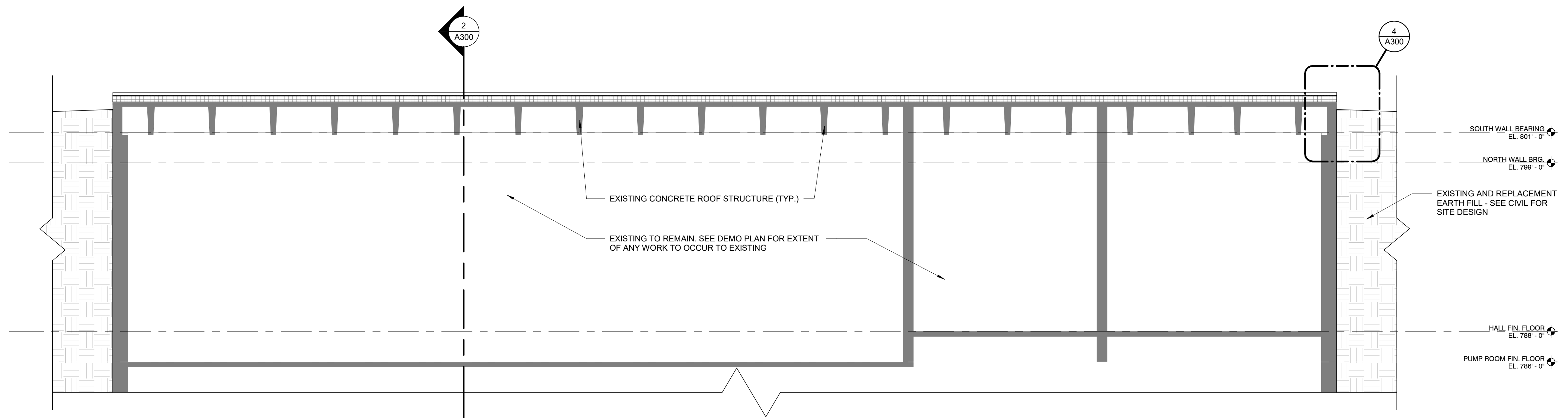
1. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
2. APPROXIMATELY 1/8\"/>



**3 WALL SECTION @ RAKE ROOF EDGE**  
SCALE: 1\"/>



**2 TRANSVERSE BUILDING SECTION**  
SCALE: 1/4\"/>



**1 LONGITUDINAL BUILDING SECTION**  
SCALE: 1/4\"/>