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NORTHERN KENTUKK UNIVERSITY NKU-UC PLAZA PRECAST PANEL REPAIR

HEET

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ETE & STEEL DETAILS

PROOFING REPAIR DETAILS

GENERAL STRUCTURAL NOTES:

- A. <u>CODES AND SPECIFICATIONS</u>
- 1. 2018 KENTUCKY BUILDING CODE.
- 2. ASCE/SEI 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- 3. ACI 301-16, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
- 4. ANSI/AISC 303-16, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
- 5. ADDITIONAL TECHNICAL SPECIFICATIONS IN THE PROJECT MANUAL.
- B. <u>DESIGN LOADS</u>
- 1. PEDESTRIAN WALL LIVE LOAD = 50 PLF
- 2. WIND LOAD
- a. DESIGN WIND SPEED (3 SECOND GUST): 115 MPH b. RISK CATEGORY: II c. WIND EXPOSURE: B
- d. ROOF HEIGHT: 16 FT
- C. <u>CONCRETE</u>
- 1. CONCRETE STRENGTH: 5000 PSI
- 2. ALL REINFORCING BARS: 60 KSI YIELD.
- 3. JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- 4. CONCRETE CONSTRUCTION TOLERANCES ARE AS SHOWN IN THE PROJECT SPECIFICATIONS.
- D. STRUCTURAL STEEL
- 1. ALL WORK SHALL CONFORM TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND THE PROJECT SPECIFICATIONS.
- 2. FABRICATOR SHALL MEET AISC 'STANDARD FOR STEEL BUILDING STRUCTURES' PER THE PROJECT SPECIFICATIONS.
- 3. MATERIAL:
- a. WIDE FLANGE: ASTM A992 (FY 50 KSI).
- b. PIPES: ASTM A53, GRADE B (FY35 KSI). c. HOLLOW STRUCTUAL SECTIONS (HSS): ASTM A500, GRADE C (HSS ROUND FY 46 KSI; HSS
- SQUARE AND RECTANGULAR FY 50 KSI). d. ROLLED SHAPES (ANGLES AND CHANNELS) & PLATES: ASTM A36 (Fy 36 KSI).
- 4. ALL WELDING MATERIALS, WELDING PROCEDURES AND OPERATORS PERFORMING WELDING TO BE QUALIFIED PER AWS D1.1.
- 5. UNLESS NOTED OTHERWISE, ALL EXTERIOR MEMBERS AND STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

- POST-INSTALLED ANCHORS AND ADHESIVE ANCHORING TO CONCRETE
- 1. POST-INSTALLED ANCHORS AND ADHESIVE ANCHORING SYSTEMS MUST BE TESTED AND APPROVED USING ICC EVALUATION SERVICE ACCEPTANCE CRITERIA, INCLUDING ICC-ES AC193: "MECHANICAL ANCHORS IN CONCRETE ELEMENTS" OR ICC-ES AC308: "POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS". CONCRETE SHALL BE CONSIDERED CRACKED. SUBMIT MANUFACTURER'S DATA AND EVALUATION REPORT (ESR) FOR PROPOSED ANCHORS, ADHESIVES, AND ANCHORING SYSTEMS. INDICATE SPECIFIC PROJECT LOCATIONS AND CONDITIONS WHERE PROPOSED FOR USE.
- 2. MECHANICAL ANCHORS TO CONCRETE SHALL BE AS SHOWN IN THE STRUCTURAL DETAILS. UNLESS NOTED OTHERWISE, USE ONE OF THE FOLLOWING: a. HILTI KWIK BOLT TZ EXPANSION ANCHORS. b. POWERS POWER-STUD+ SD2 WEDGE EXPANSION ANCHORS. c. SIMPSON STRONG-BOLT 2 WEDGE ANCHORS.
- 3. POST-INSTALLED ANCHORS SHALL ONLY BE USED AS SHOWN AND APPROVED; THEY SHALL NOT BE USED WHERE CAST-IN-PLACE ANCHORS ARE REQUIRED.
- 4. ZINC COAT ANCHORS, RODS AND HARDWARE TYPICALLY.
- 5. EMBEDMENT DEPTH, EDGE DISTANCES, AND SPACING ARE CRUCIAL. LOCATE AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, EMBED REBAR 24 DIAMETERS AND EMBED ANCHORS AT LEAST 8 DIAMETERS, WITH EDGE DISTANCES AT LEAST 8 DIAMETERS, AND SPACING AT LEAST 12 DIAMETERS. USE MANUFACTURER'S DATA TO CALCULATE REDUCED CAPACITY FOR ACTUAL CONDITIONS AND CONFIRM AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
- 6. HOLES INTO CONCRETE MUST NOT INTERFERE WITH REINFORCING BARS. THE CONTRACTOR SHALL REVIEW THE STRUCTURAL DRAWINGS AND USE FERRO-SCAN, CHIPPING OR OTHER MEANS TO LOCATE REINFORCING BARS IN THE AREA. SPACE HOLES TO FIT AROUND REBAR AND FABRICATE FIXTURE TO MATCH.
- 7. HOLES IN CONCRETE SHALL BE THE PROPER SIZE AND THOROUGHLY CLEANED WITH ALL DUST REMOVED. DRILL HOLES USING A HOLLOW BIT AND FUNCTIONING VACUUM SYSTEM, THEN BRUSH AND BLOW OUT WITH COMPRESSED AIR.
- 8. INSTALL INTO DRY CONCRETE IN CLEAN, DUST FREE HOLES USING METHOD AND PROCEDURE THAT MEETS MANUFACTURER'S RECOMMENDATIONS INCLUDING TEMPERATURE RANGE, HUMIDITY, INSTALLATION TIME AND CURE TIME. FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. INSTRUCTIONS MUST BE INCLUDED IN THE ANCHOR PACKAGING.
- 9. PROVIDE STANDARD SIZE HOLES IN THE FASTENED STEEL ELEMENT (1/16" LARGER THAN THE BOLT DIAMETER). MARK AND DRILL ALL HOLES IN THE CONCRETE BEFORE SETTING STEEL. SOME ANCHORS MAY BE SET AFTER STEEL IS IN PLACE TO ALLOW SOME ALIGNMENT. DO NOT OVERSIZE HOLES.
- 10. THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR THEIR PRODUCTS. ADHESIVE ANCHOR INSTALLERS SHALL ALSO BE CERTIFIED BY A RECOGNIZED PROGRAM, SUCH AS BY ACI AND CRSI. SUBMIT DOCUMENTATION OF TRAINING AND CERTIFICATION OF PERSONNEL PRIOR TO PERFORMING SUCH WORK. PROVIDE COPY TO THE OWNER'S INSPECTION AGENCY.
- COORDINATION AND CONSTRUCTION
- 1. THE SPECIFICATIONS AND DRAWINGS COMPLEMENT EACH OTHER. BOTH SHALL BE THOROUGHLY REVIEWED BEFORE PROCEEDING WITH ANY WORK. THE CONTRACTOR SHALL COMPLETE ALL WORK REQUIRED AND NECESSARY FOR THE PROJECT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, AND REFERENCED STANDARDS.



- 2. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO APPLY TO SIMILAR SITUATIONS ELSEWHERE.
- 3. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUB CONTRACTORS SHALL BE REVIEWED BY THE TRADE CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO SUBMITTING TO ENGINEER.
 - a. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT FABRICATION AND SHOW ON SHOP DRAWINGS. b. VERIFY AND SHOW EXACT SIZE AND LOCATION OF ALL FLOOR, WALL AND ROOF
 - OPENINGS, SLAB EDGES, EMBEDDED ANCHORS AND OTHER ITEMS. c. SHOW AND LOCATE ALL MECHANICAL SLEEVES, EMBEDS, DRAINS, ETC. ON
 - COORDINATION DRAWINGS. ITEMS NOT SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER ARE NOT PERMITTED IN OR THROUGH THE STRUCTURE. d. SUBMIT COMPLETE SHOP DRAWINGS WITH MANUFACTURERS' DATA, ETC. SHOW ALL CONNECTIONS AND DETAILS NECESSARY TO FULLY DESCRIBE AND PROPERLY INSTALL THE WORK.
 - e. STRUCTURAL ENGINEER'S REVIEW SHALL BE FOR GENERAL ARRANGEMENT AND CONFORMANCE WITH THE STRUCTURAL INTENT ONLY.
- 5. THE SPECIFICATIONS AND STRUCTURAL DRAWINGS TYPICALLY REFER TO THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT PRESCRIBE THE METHOD OF CONSTRUCTION.
- 6. BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 7. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
- 8. THE ENGINEER'S OBSERVATION AND REVIEW OF CONTRACTORS' PERFORMANCE DOES NOT INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- G. QUALITY CONTROL AND ASSURANCE
- 1. THE CONTRACTOR SHALL PERFORM QUALITY CONTROL, TESTING AND INSPECTION OF ALL WORK AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING REFERENCED CODES, SPECIFICATIONS AND STANDARDS.
- 2. THE OWNER WILL EMPLOY A TESTING AND INSPECTION AGENCY TO PERFORM SERVICES INDICATED TO BE BY OWNER IN THE PROJECT SPECIFICATIONS.
- 3. THE OWNER WILL ALSO EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS AND TESTS. ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE
 - a. CONCRETE: ALL CONCRETE WORK.
- 4. THE STRUCTURAL ENGINEER MAY GENERALLY OBSERVE THE PROGRESS OF THE WORK, BUT HIS OBSERVATION SHALL NOT BE CONSTRUED AS INSPECTION.



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AWN BY J.A. LAC ROJECT MANAGER Z.S. WOLCOT



W.M. JUDI

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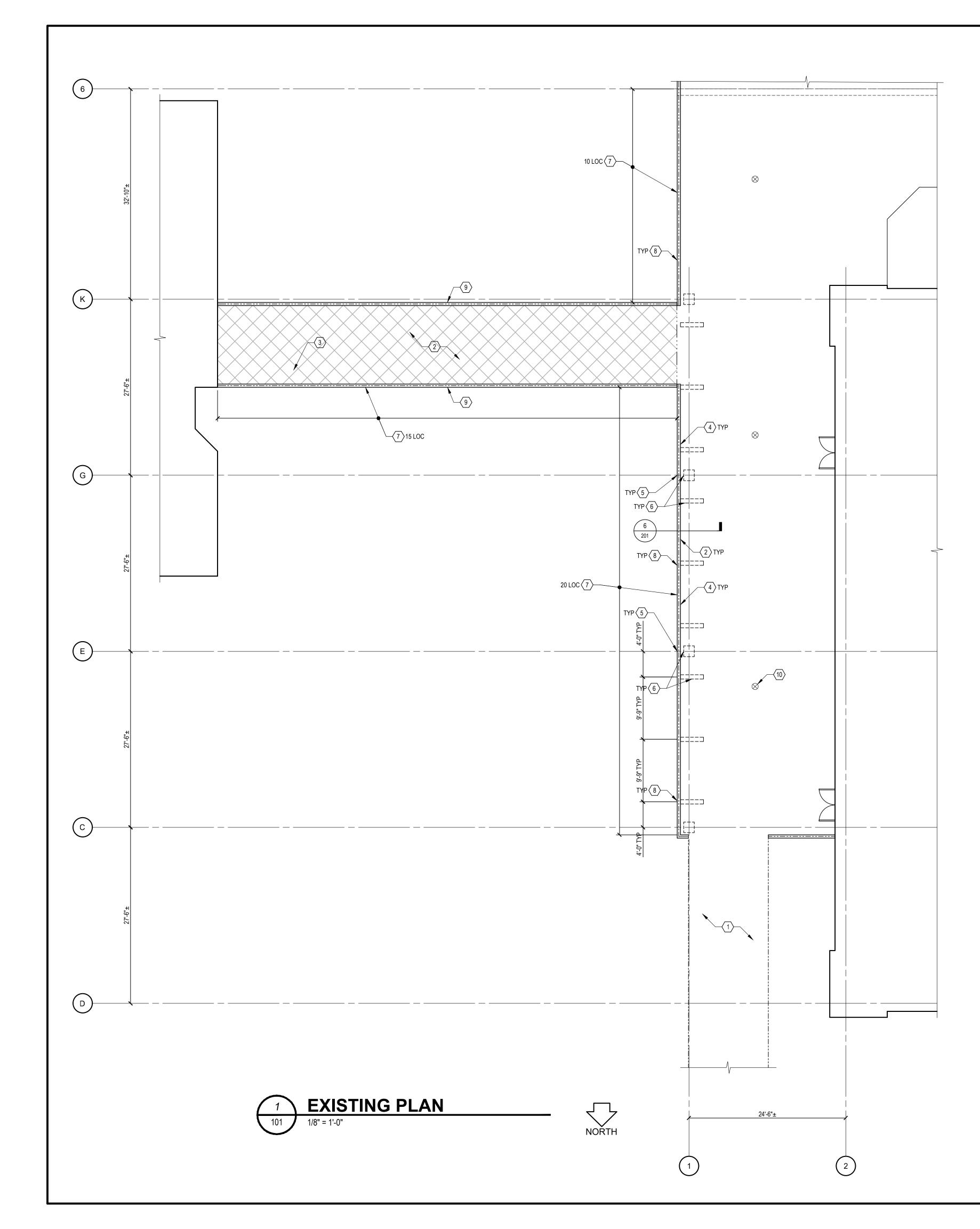


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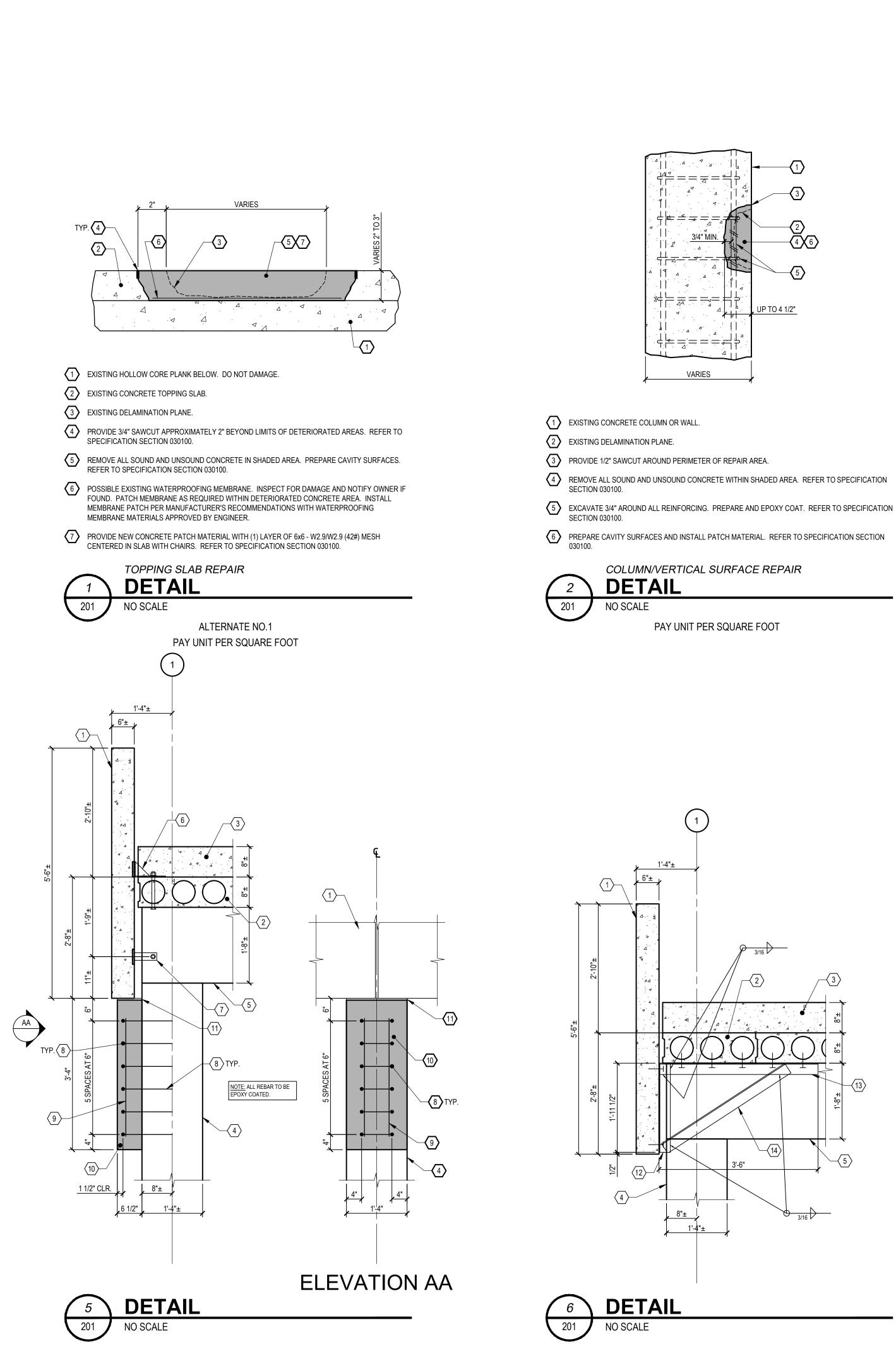
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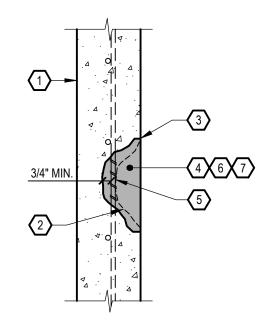
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DR	AWING NOTES:				r 7		
A.	PROVIDE PROFESSIONAL SIGNAGE AND BARRICADES TO CLOSE AND PROTECT WORK AREAS TO VEHICULAR AND PEDESTRIAN TRAFFIC. SIGNAGE SHALL INCLUDE DIRECTIONS TO ROUTE PEOPLE AROUND WORK AREA.				imited		
В.	PRIOR TO PERFORMING WORK, LOCATE ALL DRAINS, REVIEW CONDITIONS AND PROTECT DRAINS DURING REPAIRS. DRAINS TO REMAIN OPERATIONAL THROUGHOUT DURATION OF PROJECT. WATER TEST DRAINS AT THE COMPLETION OF THE PROJECT TO ENSURE FLOW.	1(00 E. I Cinc	Eightl cinnat	ti • Clo h Stree ti, Ohio 513.24	et, Ste o 4520	. 300 2
C.	PROVIDE DUST AND DEBRIS CONTROL MEASURES TO ENSURE ALL DUST AND DEBRIS GENERATED BY WORK REMAINS WITHIN WORK AREA, DOES NOT BECOME AIRBORNE, AND DOES NOT POSE HAZARDOUS OR OBJECTIONABLE CONDITIONS FOR PATRONS AND GENERAL PUBLIC. REFER TO SPECIFICATION SECTION 015600.	THP L inform	V locumer Limited. nation it	www.t nt is the Neithe contair	hpltd.o e producter the do ns may b	com t and pro- cument be copie	operty of nor the d or
D.	CONTRACTOR TO NOTIFY OWNER IF HAZARDOUS MATERIALS ARE ENCOUNTERED. REMOVAL OF ALL HAZARDOUS ITEMS MUST BE COORDINATED WITH OWNER. OWNER WILL PAY THE ADDITIONAL COST FOR ABATEMENT.	which		orepare	n the spe ed withou ited.		
E.	CONTRACTOR TO PROTECT EXISTING RAILING SYSTEM DURING ALL REPAIR WORK. ANY DAMAGE TO THE EXISTING RAILING SYSTEM OR TO THE EXISTING COATING SYSTEM SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.						
F.	CONTRACTOR TO PERFORM A WASH DOWN OF THE WORK AREAS AT THE COMPLETION OF THE PROJECT.						
<u>KE</u>	Y NOTES:						
1.	EXISTING PEDESTRIAN BRIDGE TO THE NORTH OF THE PLAZA AREA. THIS BRIDGE IS NOT APART OF THIS PROJECT SCOPE OF WORK DO NOT DAMAGE.						
2.	CONTRACTOR AND ENGINEER TO VISUALLY SURVEY THE WORK AREAS FOR VERTICAL SURFACE, WALL BOTTOM, AND MISCELLANEOUS CONCRETE DETERIORATION. AS A UNIT PRICE REPAIR, PERFORM VERTICAL SURFACE CONCRETE REPAIR, VERTICAL WALL CONCRETE REPAIR OR WALL BOTTOM CONCRETE REPAIR. REFER TO DETAILS 2, 3, AND 4 ON DRAWING 201.						
3.	CONTRACTOR AND ENGINEER TO SURVEY THE PEDESTRIAN BRIDGE TO THE MATHEMATICS EDUCATION PSYCHOLOGY CENTER FOR PONDING WATER. AS A UNIT PRICE REPAIR, INSTALL A SUPPLEMENTAL DRAIN. REFER TO DETAIL 1 ON DRAWING 301.						
4. F	PREPARE CONCRETE SURFACES AND INSTALL COVE SEALANT AT ALL VERTICAL SURFACES INCLUDING WALLS AND CURBS. REFER TO DETAIL 3 ON DRAWING 301.						
5.	EXISTING ISOLATION JOINT BETWEEN THE PRECAST WALL PANELS. AT ALL JOINTS PREPARE CONCRETE SURFACES AND INSTALL NEW ISOLATION JOINT SEALANT. ENTIRE JOINT TO SILICONE SEALANT. INSTALL ALL HIGH PERFORMANCE COATING SYSTEMS PRIOR TO INSTALLATION OF SILICONE SEALANT. REFER TO DETAIL 2 ON DRAWING 301.						
6.	EXISTING PRECAST WALL PANEL WITH DETERIORATED CONNECTIONS. CONTRACTOR TO INSTALL A NEW CONCRETE HAUNCH (4 LOC.) AND SUPPLEMENTAL STEEL REINFORCING (9 LOC.) PER DETAILS 5 AND 6 ON DRAWING 201.						
7.	EXISTING SEALANT INSTALLED AT OLD EMBEDMENT PLATES ON TOP OF WALL. REMOVE SEALANT AND INSTALL AN EPOXY SAND MIXTURE PRIOR TO INSTALLATION OF A HIGH PERFORMANCE COATING SYSTEM. REFER TO SPECIFICATION SECTION 030100.						
8.	EXISTING PRECAST CONCRETE WALL PANEL. PREPARE SURFACES AND INSTALL A HIGH PERFORMANCE COATING SYSTEM ON THE EAST, BOTTOM, AND TOP FACES ON THE PANEL. PERFORM MOCK-UP FOR COLOR SELECTION BY OWNER. REFER TO SPECIFICATION SECTION 099100.						
9.	EXISTING PEDESTRIAN BRIDGE TO THE MATHEMATICS EDUCATION PSYCHOLOGY CENTER. PREPARE SURFACES AND INSTALL A HIGH PERFORMANCE COATING SYSTEM ON THE EXTERIOR VERTICAL, BOTTOM, AND TOP FACES OF THE BRIDGE. REFER TO SPECIFICATION SECTION 099100.						
10.	ALTERNATE NO. 1: EXISTING DETERIORATED DRAIN LINE. CONTRACTOR TO REMOVE 20 SQUARE FEET OF CONCRETE AROUND THE DRAIN GRATING TO INVESTIGATE WATERPROOFING BENEATH THE TOPPING SLAB. REVIEW REPAIR AREA WITH ENGINEER AND OWNER. REMOVE AND REPLACE SECTION OF DETERIORATED DRAIN LINE. FOR BIDDING ASSUME 10 LF FEET OF DRAIN LINE REPLACEMENT. REPAIRS OF SLAB WATERPROOFING TO BE PAID OUT ON A TIME AND MATERIAL BASIS. REINSTALL TOPPING SLAB AROUND THE DRAIN LINE. NEW TOPPING SLAB REPAIR TO MATCH EXIST COLOR. REFER TO DETAIL 1 ON DRAWING 201 AND SPECIFICATION SECTION 030100 AND 221400.	REVISIONS					
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	EXISTING CONSTRUCTION JOINT EXISTING FLOOR DRAIN	^P			st f Paif		IEL
$\sum_{i=1}^{i}$	EXISTING MEMBRANE SYSTEM				11		
	EXISTING CONCRETE (X) QUANTITY (X) QUANTITY	DRAWIN			ING P	'LAN	
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- EXISTING CONCRETE PARAPET WALL.
- 2 EXISTING DELAMINATION PLANE.
- (3) PROVIDE 1/2" SAWCUT AROUND PERIMETER OF REPAIR AREA.
- REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
- 5 EXCAVATE 3/4" AROUND ALL REINFORCING. PREPARE AND EPOXY COAT. REFER TO SPECIFICATION
- 6 PREPARE CAVITY SURFACES AND INSTALL PATCH MATERIAL. REFER TO SPECIFICATION SECTION 030100.
- $\overline{7}$ FINISH PATCH SURFACE TO MATCH EXISTING TEXTURE IF PRESENT.



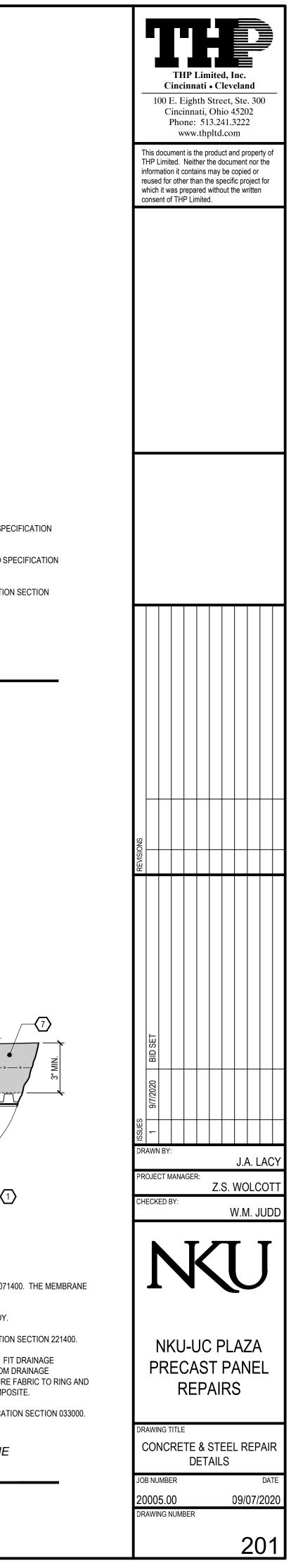


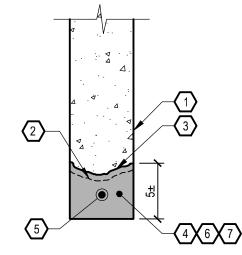
SECTION 030100.

PAY UNIT PER SQUARE FOOT

DETAIL 5 AND 6 NOTES: 🔿

- EXISTING PRECAST CONCRETE WALL PANEL. CONTRACTOR TO SURVEY PANEL AND PERFORM VERTICAL WALL AND WALL BOTTOM REPAIRS PER DETAILS 3 AND 4 ON THIS SHEET.
- 2. EXISTING HOLLOW CORE CONCRETE PLANK. DO NOT DAMAGE.
- 3. EXISTING TOPPING SLAB. DO NOT DAMAGE.
- 4. EXISTING CONCRETE COLUMN. DO NOT DAMAGE.
- 5. EXISTING CONCRETE BEAM. DO NOT DAMAGE
- 6. EXISTING ANGLE AND BOLTED CONNECTION INTO HOLLOW CORE PLANK TO REMAIN.
- 7. EXISTING ANGLE BOLTED INTO CONCRETE BEAM. CLEAN ANGLE AND REVIEW ANGLE FOR BROKEN WELDS. REPAIR WELDS ON A TIME AND MATERIAL BASIS. CLEAN AND COAT THE ANGLE WITH A NEW HIGH PERFORMANCE COATING SYSTEM. REFER TO SPECIFICATIONS SECTION 099100.
- PROVIDE AND INSTALL #4 "U" BARS AT 6" O.C. VERTICAL. DRILL AND EPOXY 8" 8. INTO EXISTING COLUMN. FIELD VERIFY BARS DO NOT INTERFERE WITH EXISTING REBAR IN THE COLUMN.
- 9. PROVIDE AND INSTALL TWO (2) CONTINUOUS #6 BARS.
- 10. AFTER INSTALLATION OF "U" BARS FORM HAUNCH AND INSTALL PATCH MATERIAL TYPE "B". REFER TO SPECIFICATIONS SECTION 030100.
- 11. PROVIDE AND INSTALL A BEARING PAD BETWEEN THE EXISTING PRECAST CONCRETE WALL AND NEW HAUNCH. BASIS OF DESIGN MASTICORD STRUCTURAL BEARING PAD BY JVI.
- 12. NEW WT 4x15.5 MEMBER. INSTALL MEMBER TO PRECAST CONCRETE PANEL UTILIZING 4 ANCHORS, 2 IN EACH FLANGE AT THE LOCATION SHOWN. DRILL AND EPOXY HILTI HIT-HY-200 3/8" DIA. ANCHORS MAX. 4.5" INTO CONCRETE PANEL. REFER TO SPECIFICATION SECTION 055000.
- 13. NEW WT 4x15.5 MEMBER. INSTALL MEMBER TO HOLLOW CORE CONCRETE PLANK UTILIZING 10 ANCHORS, 2 IN EACH FLANGE AT THE LOCATION SHOWN. BASIS OF DESIGN IS HILTI HIT-HY 70 ANCHOR SYSTEM. FIELD VERIFY LOCATION OF HOLLOW CORE PLANK OPENINGS AND INSTALL ANCHORS PER MANUFACTURES STANDARD PROCEDURES. REFER TO SPECIFICATION SECTION 055000.
- 14. NEW 3"x3"x1/4" STEEL ANGLE. COPE ENDS AS REQUIRED TO WELD TO ADJACENT MEMBERS. REFER TO SPECIFICATION SECTION 055000.





EXISTING PRECAST CONCRETE WALL PANEL.

 $\langle 2 \rangle$ EXISTING DELAMINATION PLANE.

030100.

3 PROVIDE 1/2" SAWCUT AROUND PERIMETER OF REPAIR AREA.

(4) REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.

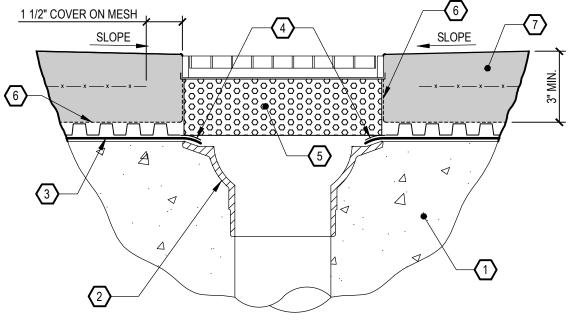
(5) EXCAVATE 3/4" AROUND ALL REINFORCING. PREPARE AND EPOXY COAT. REFER TO SPECIFICATION SECTION 030100.

6 PREPARE CAVITY SURFACES AND INSTALL PATCH MATERIAL. REFER TO SPECIFICATION SECTION

 $\langle 7 \rangle$ FINISH PATCH SURFACE TO MATCH EXISTING TEXTURE IF PRESENT.



PAY UNIT PER LINEAR FOOT



1 EXISTING CONCRETE BELOW SLAB TO REMAIN.

DETAIL

3" = 1'-0"

201

2 EXISTING DECK DRAIN BODY WITH DRAIN OUTLET PIPE TO REPLACED.

3 PROVIDE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. THE MEMBRANE INTO DRAIN PER MEMBRANE MANUFACTURER'S REQUIREMENTS.

4 PROVIDE CLAMPING RING TO SECURE WATERPROOFING MEMBRANE TO DRAIN BODY.

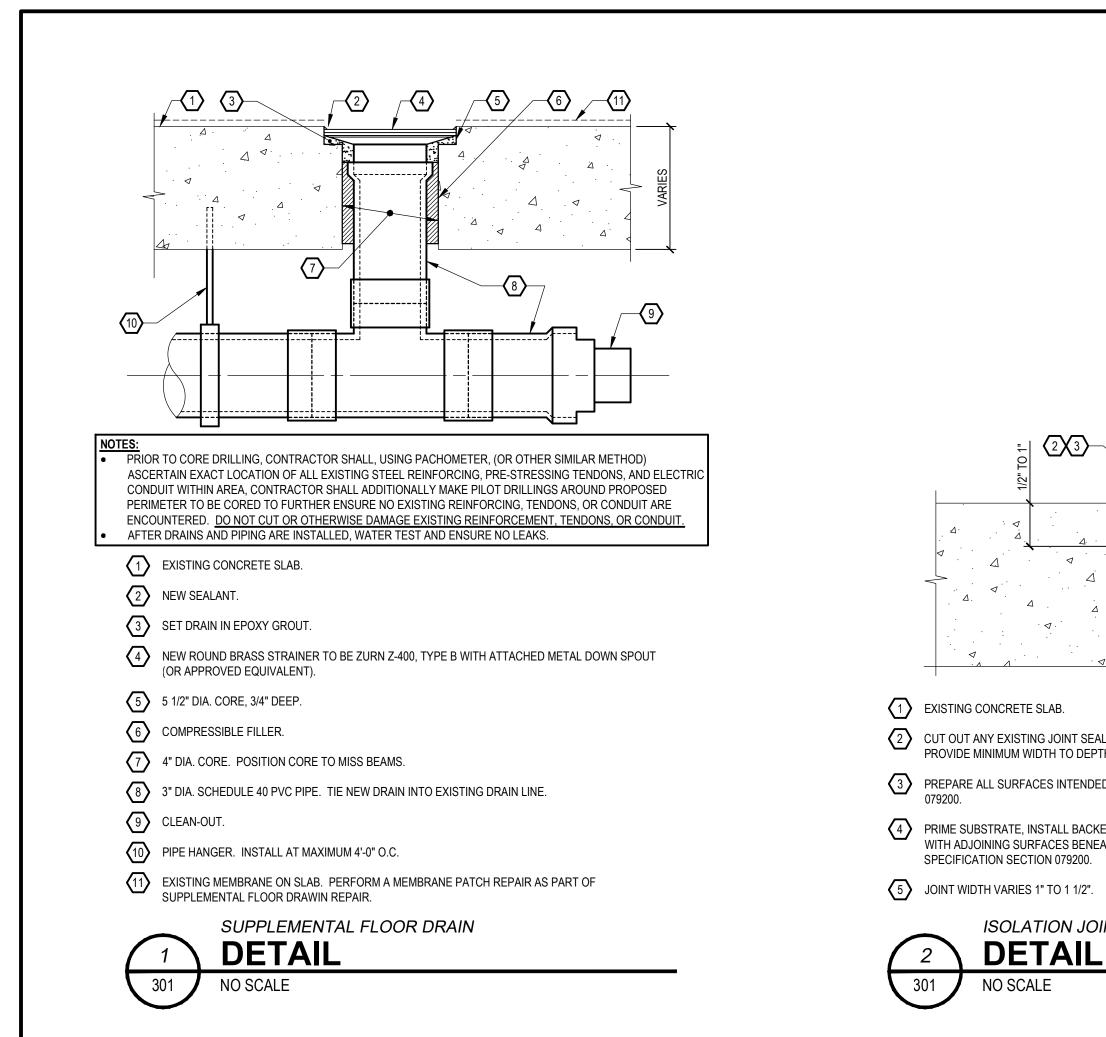
(5) PROVIDE STAINLESS STEEL PERFORATED EXTENSION RING. REFER TO SPECIFICATION SECTION 221400.

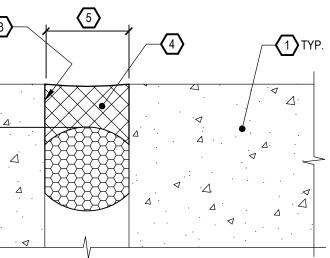
6 PROVIDE NEW DRAINAGE COMPOSITE. REFER TO SPECIFICATION SECTION 071400. FIT DRAINAGE COMPOSITE TIGHT TO PERFORATED EXTENSION RING. INSTALL FILTER FABRIC FROM DRAINAGE COMPOSITE ONTO EXTENSION RING TO COMPLETELY COVER FACE OF RING. SECURE FABRIC TO RING AND TOP OF DRAINAGE COMPOSITE. EXTEND FABRIC MINIMUM 3" ONTO DRAINAGE COMPOSITE.

PROVIDE NEW CONCRETE SLAB. REFER TO DETAIL 1 ON THIS SHEET AND SPECIFICATION SECTION 033000.

DECK DRAIN AT WATERPROOFING MEMBRANE

ALTERNATE NO.1

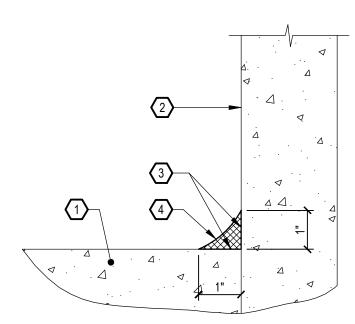




2 CUT OUT ANY EXISTING JOINT SEALANTS THEN GRIND SURFACES TO REMOVE SEALANT RESIDUE. PROVIDE MINIMUM WIDTH TO DEPTH RATIO OF 3:2. REFER TO SPECIFICATION SECTION 079200. PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.

PRIME SUBSTRATE, INSTALL BACKER ROD, AND PROVIDE NEW SEALANT. INSTALL SEALANT FLUSH WITH ADJOINING SURFACES BENEATH COATING, AND CONCAVE ELSEWHERE. REFER TO

ISOLATION JOINT SEALANT



 $\langle 1 \rangle$ EXISTING CONCRETE SLAB.

 $\langle 2 \rangle$ EXISTING WALL, CURB, OR ANY OTHER VERTICAL PROJECTION.

 $\langle 3 \rangle$ PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION SECTION 079200.

4 PROVIDE COVE SEALANT. INSTALL PER DIMENSIONS UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 079200.



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