

# City of Plymouth

## Central Parking Structure Restoration 2023

### Plymouth, Michigan

Issued for Bidding & Construction 3/23/2023

Project Number: 220597



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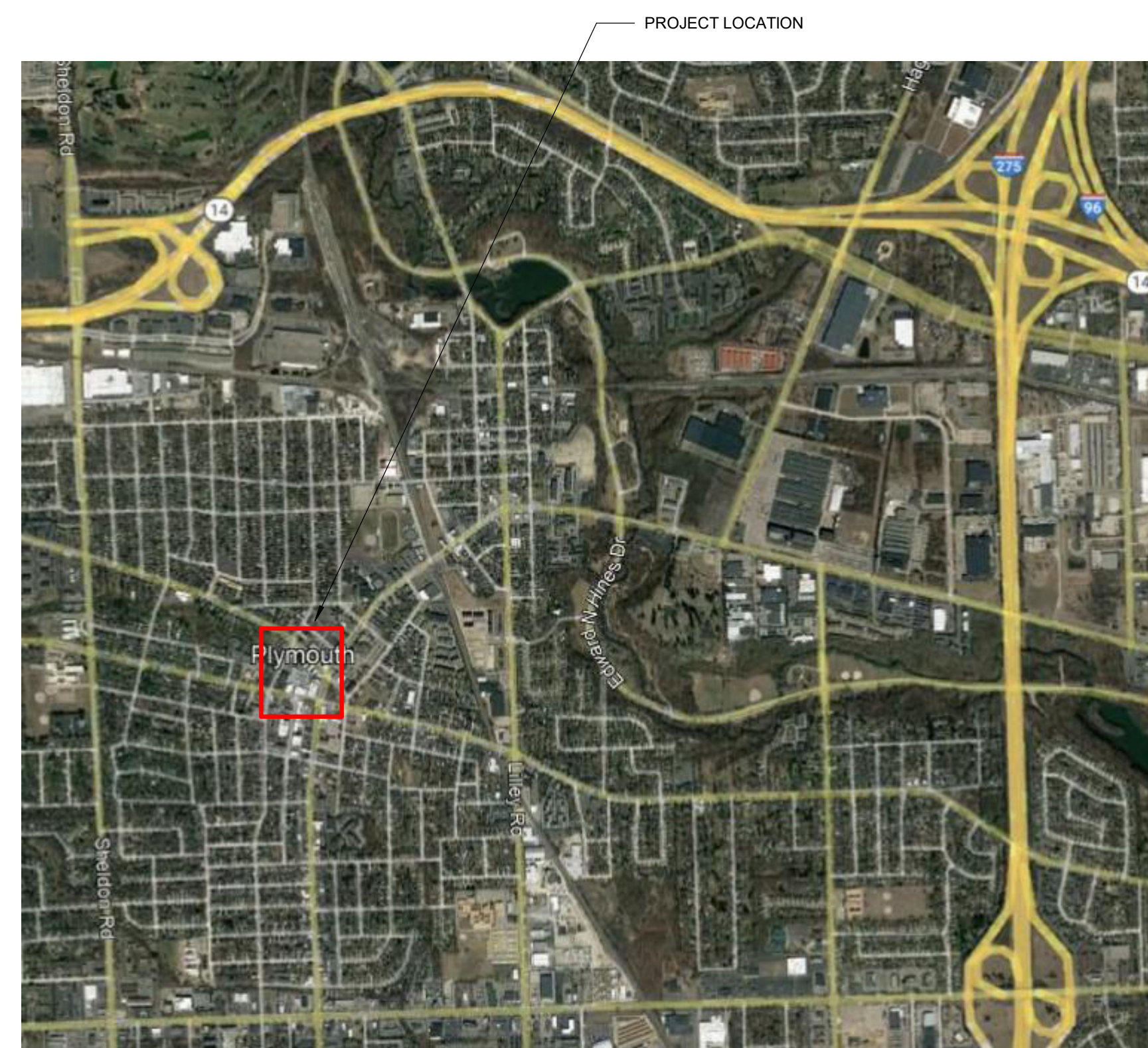
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City of Plymouth  
Plymouth, Michigan  
Central Parking Structure Restoration 2023

AREA MAP



PROJECT LOCATION



#### REVISIONS

03/23/2023 Bidding & Construction

Drawn By DEB  
Designer JBT  
Reviewer JKG  
Manager JBT

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

SEAL

PROJECT NO.  
220597

SHEET NO.

# G001

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GENERAL NOTES

DIVISION 01 - GENERAL REQUIREMENTS

1.1 ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES/ORDINANCES AND FIRE CODES, INCLUDING THE FOLLOWING:

- A. CITY OF PLYMOUTH, MICHIGAN CODES AND ORDINANCES, ADOPTED 6/20/2022.
B. MICHIGAN BUILDING CODE, 2015 EDITION

1.2 SPECIAL INSPECTIONS

- A. THE OWNER WILL ENGAGE ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS AND MATERIALS TESTING DURING CONSTRUCTION. ALL SPECIAL INSPECTIONS AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF SPEC 014100 AND THE CODES LISTED IN ITEM 1.1.
B. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL BUILDING OFFICIAL. SPECIAL INSPECTIONS SHALL NOT RELIEVE THE OWNER AND CONTRACTOR FROM REQUESTING THE BUILDING OFFICIAL'S INSPECTIONS REQUIRED BY IBC SECTION 110.
C. SPECIAL INSPECTORS SHALL BE GIVEN PROPER NOTICE AND ACCESS TO THE SITE TO PERFORM TESTING AND INSPECTION AS NECESSARY.
D. REQUIRED CATEGORIES OF SPECIAL INSPECTIONS:
1. CONCRETE CONSTRUCTION (IBC SECTION 1705.3)
E. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO VERIFY THAT IT CONFORMS TO THE CONTRACT DOCUMENTS.
2. THE SPECIAL INSPECTOR SHALL NOT AUTHORIZE OR APPROVE DEVIATIONS FROM THE CONTRACT DOCUMENTS. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE INITIATED BY THE CONTRACTOR VIA A WRITTEN REQUEST FOR INFORMATION (RFI) AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK.
3. THE SPECIAL INSPECTOR SHALL FURNISH WRITTEN INSPECTION REPORTS TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF CORRECTIONS ARE NOT MADE, THE BUILDING OFFICIAL AND ENGINEER AND/OR ARCHITECT SHALL BE NOTIFIED.

1.3 LOADING AND DESIGN PARAMETERS - ASCE7-10 OR AS SPECIFIED HEREIN

- A. LIVE LOADING:
1. SUPPORTED PARKING AND DRIVE AREAS:
i. UNIFORM LOAD 40 PSF
ii. CONCENTRATED LOAD ACTING ON 20 SQ. IN. AREA 2000 LBS
2. SLAB ON GRADE:
i. UNIFORM LOAD 100 PSF
ii. CONCENTRATED LOAD ACTING ON 20 SQ. IN. AREA 2000 LBS
3. STAIRS AND EXITS:
i. UNIFORM LOAD 100 PSF
ii. CONCENTRATED LOAD ACTING ON 4 SQ. IN. AREA 300 LBS

1.4 PERMITS

- A. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK.

1.5 CORROSION PROTECTION SYSTEM

- A. THE CORROSION PROTECTION SYSTEM IS BASED ON CRITERIA PRESENTED IN ACI 362.1R "GUIDE FOR THE DESIGN OF DURABLE PARKING STRUCTURES", ZONE 3, OR AS SPECIFIED HERE IN.

1.6 CONSTRUCTION AND COORDINATION NOTES

- A. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
B. CONSTRUCTION MEANS, METHODS, PROCEDURES, BRACING, AND SAFETY ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR. THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETE STRUCTURAL SYSTEM IN ITS FINISHED STATE.
C. THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUPPORTING FORMWORK FOR ELEVATED CONSTRUCTION SHALL NOT BE REMOVED BEFORE THE CONCRETE HAS GAINED SUFFICIENT STRENGTH TO SAFELY SUPPORT THE DEAD AND SUPERIMPOSED LOADS WHICH SUBSEQUENTLY WOULD BE APPLIED.
D. ALL OMISSIONS OR CONFLICTS AMONG VARIOUS ELEMENTS OF DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO ENGINEER BEFORE PROCEEDING WITH ANY WORK.
E. NO STRUCTURAL MEMBERS SHALL BE PENETRATED OR CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY ENGINEER. ALL PENETRATIONS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
F. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
G. IF DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MOST STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN.
H. VISITS TO JOB SITE BY ENGINEER TO OBSERVE CONSTRUCTION DO NOT IN ANY WAY MEAN GUARANTEE OF CONTRACTOR'S WORK, NOR RESPONSIBILITY FOR COORDINATION, SUPERVISION, NOR SAFETY AT JOB SITE.
I. PRIOR TO BEGINNING WORK, WORK AREA IS TO BE COMPLETELY ENCLOSED. CONTRACTOR TO BE RESPONSIBLE FOR ADEQUATE VENTILATION, FUME AND DUST CONTROL. REFER TO DIVISION 1 SPECIFICATION "TEMPORARY FACILITIES AND CONTROLS".
J. LOCAL NOISE ORDINANCE WILL GOVERN OPERATIONS.
K. FIRE SUPPRESSION SYSTEM MUST BE MAINTAINED IN THE STRUCTURE AT ALL TIMES EXCEPT IN WORK AREAS.
L. TAKE EXTREME CAUTION NOT TO DAMAGE IN ANY WAY THE EXISTING ELECTRICAL SERVICE, TELECOMMUNICATION LINES, COMPUTER LINES, ETC. LOCATE AND MARK ALL SERVICE LINES.
M. REFER TO DIVISION 1 SPECIFICATION "TRAFFIC CONTROL".

1.7 DUST CONTROL

- A. FILTER FABRIC MUST BE INSTALLED OVER ALL STORM DRAIN BASINS WITHIN THE WORK AREA.
B. DUST, SILT, SEDIMENT, ETC SHALL NOT LEAVE THE SITE.
C. ALL SAW CUTTING AND GRINDING OPERATIONS SHALL BE PERFORMED WET TO CONTROL DUST.

1.8 CONCRETE AND SAW CUTTING WORK

- A. THE FOLLOWING REQUIREMENTS APPLY TO CONCRETE AND SAW CUTTING WORK (CUTTING, GRINDING, DRILLING, HYDRO-DEMOLITION ETC.):
1. DISCHARGE OF WATER, DUST, OR DEBRIS FROM CONCRETE WORK TO STORM OR SANITARY SYSTEM IS PROHIBITED.
2. STORM DRAINS MUST BE PROTECTED FROM DUST AND DEBRIS.
3. ANY WATER USED DURING CONCRETE WORK (INCLUDING SWEEPING AND SAW CUTTING) MUST BE CONTAINED AND COLLECTED FOR PROPER DISPOSAL. SUGGESTED CONTROLS INCLUDE WET VACUUM OR ABSORBENTS.
4. GOOD HOUSEKEEPING PRACTICES MUST BE EMPLOYED AT THE JOBSITE. MINIMIZE DUST.

1.9 CONCRETE WASHOUT

- A. DO NOT DISCHARGE CONCRETE, MORTAR, OR GROUT INTO STORM DRAINS, CATCH BASINS, OR TO THE SANITARY SEWER SYSTEM. PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS OR OFFSITE.
1. DESIGNATED AREAS SHOULD BE CLEARLY LABELED. THEY SHOULD BE IN A PIT TO PREVENT RUNOFF OF WASTE WATER. PLACE DESIGNATED AREAS A MINIMUM OF 50 FEET FROM STORM DRAINS, BODIES OF WATER, AND DITCHES. ALL DESIGNATED AREAS SHOULD BE LINED TO PREVENT SEEPAGE AND SHOULD HAVE A BARRIER.
2. IF ONLY A SMALL AMOUNT OF CONCRETE WASHING IS TO OCCUR, AN ALTERNATIVE TO A DESIGNATED AREA IS TO UTILIZED A LINED ROLL-OFF BOX OR DRUM (FOR VERY SMALL QUANTITIES).
B. ONCE CONCRETE WASHOUT HAS HARDENED, BREAK UP AND DISPOSE OF PROPERLY. DISPOSAL OF HARDENED CONCRETE SHOULD OCCUR ON A REGULAR BASIS.
C. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES PROVIDED, ONCE THE WASHOUT AREA IS 75% FULL.

1.10 WASTE DISPOSAL - WASH WATER, PAINTS, SOLVENTS, AND OTHER CHEMICALS

- A. ANY USED CHEMICAL PRODUCTS OR SOLVENTS INCLUDING CHEMICAL AND SOLVENT MIXTURES, RESIDUES, CONTAMINATED RAGS, AND CONTAINERS SHOULD BE EVALUATED AND DISPOSED OF PROPERLY.

1.11 QUANTITIES

- A. CONTRACTOR SHALL NOTIFY ENGINEER IF QUANTITIES SHOWN ON DRAWINGS ARE SUBSTANTIALLY DIFFERENT FROM THE ACTUAL QUANTITIES IN THE FIELD. SUBJECT LOCATIONS SHALL BE REVIEWED WITH THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

1.12 CONSTRUCTION PHASING

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL CONSTRUCTION ACTIVITY AND SHALL COOPERATE FULLY WITH OWNER FOR ALL CONSTRUCTION PHASING.
B. CONTRACTOR SHALL BE LIMITED TO THE FOLLOWING WORK AREAS:
1. CONTRACTOR MAY CLOSE ONE HALF OF THE PARKING STRUCTURE AT ONE TIME. FOR EXAMPLE:
- LEVEL 1 MAY BE CLOSED WITH THE ENTIRE AREA OF LEVEL 2 OPEN FOR PARKING.
- LEVEL 2 MAY BE CLOSED WITH THE ENTIRE AREA OF LEVEL 1 OPEN FOR PARKING.
- ONE HALF OF LEVEL 2 MAY BE CLOSED PLUS THE SAME AREA DIRECTLY BELOW AT LEVEL 1.
2. PEDESTRIAN BRIDGE MAY BE CLOSED DURING LEVEL 2 REPAIRS.
C. CONTRACTOR SHALL ONLY CLOSE AREAS WHERE WORK IS CURRENTLY BEING PERFORMED.
D. CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW TO ALL LEVELS OF THE STRUCTURE.
E. AREAS OF PARKING ABOVE AND AROUND SHORING SHALL BE CLOSED TO PARKING, PRIOR TO REPAIRS AND SHORING.
F. PROTECT AREA FOR CONTRACTOR TO BE LOCATED ON SITE. CONTRACTOR SHALL COORDINATE WITH OWNER.
G. PROTECT PEDESTRIAN TRAFFIC THROUGHOUT STRUCTURE AND ON SIDEWALKS AROUND PERIMETER OF PARKING STRUCTURE.
H. IT WILL BE NECESSARY TO SCHEDULE CONTRACTOR DELIVERIES AND WASTE HAULING TO MINIMIZE INTERFERENCE WITH EXISTING BUILDING OPERATIONS. CONTRACTOR SHALL COORDINATE WITH OWNER.
I. ONE STAIR TOWER MUST REMAIN OPEN AT ALL TIMES. COORDINATE WITH THE OWNER AND ENGINEER IF EMERGENCY EGRESS CANNOT BE MAINTAINED WHILE WORK IS BEING PERFORMED.
J. CONTRACTOR SHALL SUBMIT PHASING PLANS, COMPLETE WITH TEMPORARY SIGNAGE AND TRAFFIC FLOW DIAGRAMS, FOR REVIEW PRIOR TO START OF CONSTRUCTION.
K. PROVIDE OWNER APPROVED SIGNAGE AT THE BEGINNING OF THE CONSTRUCTION PHASE NECESSARY TO ADEQUATELY DIRECT VEHICLES AND PEDESTRIANS TO ALTERNATE SAFE ROUTES.
L. CONTRACTOR MAY NEED TO RECAPTURE AREAS TO PERFORM WATERPROOFING AND/OR STAINING WORK AFTER THE CONCRETE REPAIRS HAVE OCCURRED.
M. CONTRACTOR SHALL PROVIDE A WEEKLY WORK SCHEDULE PRIOR TO PERFORMING WORK THE UPCOMING WEEK.

1.13 FORMWORK AND SHORING

- A. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR SAFETY OF BUILDING OR EQUIPMENT DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION, ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM WORK INDICATED.
B. CONTRACTOR IS RESPONSIBLE FOR PROVIDING APPROPRIATE SHORING.

1.14 CONCRETE DELAMINATION REPAIR

- A. SOUND ALL AREAS AS INDICATED ON DRAWINGS AND MARK PERIMETER OF AREAS.
B. SAWCUT AND CHIP AT PERIMETER OF DELAMINATED AREAS AS INDICATED IN THE REPAIR DETAILS.
C. REMOVE EXISTING CONCRETE BEYOND DELAMINATION TO SOUND CONCRETE AS INDICATED IN THE REPAIR DETAILS.
D. REMOVE EXISTING CONCRETE BEYOND DELAMINATION EXPOSING EXISTING REINFORCEMENT STEEL PERIMETER AS INDICATED IN THE REPAIR DETAILS.
E. PROVIDE UNIFORM HORIZONTAL SURFACE BETWEEN ADJACENT BARS OR WIRES WHEN CAVITY ENCOMPASSES MORE THAN ONE BAR OR WIRE.
F. CLEAN (AND COAT) ALL EXPOSED REINFORCEMENT STEEL AND OTHER EMBEDDED STEEL.
G. PROVIDE SPRAY AND BRUSH APPLIED BONDING GROUT TO EXCAVATED CAVITY SURFACE.
H. PROVIDE PATCH MATERIAL AS INDICATED IN GENERAL NOTE 3.2.
I. FINISH OF UNFORMED CONCRETE PATCH SURFACES TO MATCH ADJACENT AREAS.
J. WHERE APPLICABLE CHAMFER CORNERS TO MATCH ADJACENT AREAS.
K. CONCRETE PATCH SURFACES TO BE PAINTED TO MATCH ADJACENT AREAS.
L. NOMINAL SIZES OF MEMBERS ARE INDICATED ON DETAILS. ACTUAL SIZES MAY VARY.
M. NOMINAL PATCH DEPTHS ARE INDICATED ON DETAILS. ACTUAL DEPTH MAY VARY.
N. PAY BASIS SHALL BE AS INDICATED ON THE BID FORM.

DIVISION 02 - EXISTING CONDITIONS

2.1 EXISTING STRUCTURES

- A. FOR ADDITIONAL INFORMATION ON EXISTING STRUCTURE, REFER TO ORIGINAL DESIGN DRAWINGS BY HOBBS & BLACK ASSOCIATES, INC DATED 2/7/1984 AND PRECAST SHOP DRAWINGS BY SHELBY PRECAST CONCRETE CO DATED 4/29/1984.
B. FIELD VERIFY THE LOCATIONS OF EXISTING UTILITIES, STRUCTURES, ETC AND NOTIFY ENGINEER OF ANY INTERFERENCE.
C. WHERE DIMENSIONS ARE INDICATED FOR EXISTING STRUCTURES OR UTILITIES, THEY ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY IN FIELD (VIF) ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY VARIATIONS BETWEEN EXISTING DIMENSIONS AND/OR ELEVATIONS ON DRAWINGS SHALL BE REPORTED TO ENGINEER.
D. EXISTING SNOW MELT SYSTEM IS EMBEDDED IN VEHICULAR RAMP SLAB.
E. SUPPORTED SLAB AND PEDESTRIAN BRIDGE HAVE AN EXISTING DECK COATING, EXCEPT AT LEVELER RAMP.
F. ALL COLUMNS AND WALLS HAVE AN EXISTING ELASTOMERIC COATING AT THE INTERIOR OF VERTICAL 2, INCLUDING THE PEDESTRIAN BRIDGE.
G. REMOVE AND RE-INSTALL EXISTING PIGEON CONTROL PANELS AT THE UNDERSIDE OF THE SUPPORTED SLAB TO PERFORM REPAIRS AS NECESSARY.
H. CONTRACTOR TO VERIFY LOCATIONS OF LEAKING JOINTS AND REVIEW WITH ENGINEER PRIOR TO PERFORMING WATERPROOFING REPAIRS.
I. IF EXISTING SHEAR CONNECTORS ARE DAMAGED, NOTIFY ENGINEER.

DIVISION 03 - CAST-IN-PLACE CONCRETE

3.1 ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- A. ACI 318-19
B. ACI 362.1R-12
C. REFER TO DIVISION 3 SPECIFICATION "CAST-IN-PLACE CONCRETE FOR PARKING STRUCTURES" FOR INFORMATION NOT LISTED HEREIN

3.2 CONCRETE MIXES

Table with 5 columns: DESCRIPTION, F'C (PSI), MAXIMUM CHLORIDE ION, MAX W/C RATIO, AVG AIR ENTRAINED. Row 1: SLAB TOPPING REPAIR, 5000 CNS/F, 0.15, 0.40, 6-1/2% OR REFER TO NOTE (7)

- FLANGE/CEILING REPAIR REFER TO NOTE (8)
STEM/WALL/COLUMN/BEAM REPAIR REFER TO NOTE (8)

NOTES:

- (1) STD. DESIGNATES A CONCRETE MIX DESIGN IN ACCORDANCE WITH SPECIFICATION SECTION 033126 WHICH DOES NOT REQUIRE SILICA FUME, GGBS/FLY ASH, OR CALCIUM NITRITE ADMIXTURE.
(2) CNS. DESIGNATES A CONCRETE MIX DESIGN IN ACCORDANCE WITH SPECIFICATION SECTION 033126 WHICH CONTAINS 2 GAL/CY OF CALCIUM NITRITE CORROSION-INHIBITOR ADMIXTURE AT 5% SILICA FUME.
(4) F. DESIGNATES A CONCRETE MIX DESIGN IN ACCORDANCE WITH SPECIFICATION SECTION 033126 WHICH CONTAINS 1-1/2 LBS/CY OF FIBRILLATED FIBER REINFORCEMENT OR 1 LBS/CY MICROFILAMENT REINFORCEMENT.
(5) AVERAGE AIR-ENTRAINED VALUES ARE FOR IN-PLACE CONCRETE. TOLERANCE ON TOTAL AIR CONTENT IS 1-1/2% PER ACI 318.
(6) ALL NORMAL WEIGHT CONCRETE SHALL HAVE A DENSITY OF APPROXIMATELY 145 PCF UNLESS NOTED OTHERWISE. THE WEIGHT OF FLY ASH AND GGBS MAY BE INCLUDED WITH THE WEIGHT OF CEMENT.
(7) CONTRACTOR MAY USE READY MIX CONCRETE OR POLYMER REPAIR MORTAR REPAIR MATERIAL. REFER TO SPECIFICATIONS.
(8) VERTICAL/OVERHEAD POLYMER MODIFIED REPAIR MORTAR. REFER TO SPECIFICATIONS.

3.3 CEMENT

- A. ASTM C 150 TYPE I OR III
B. ASTM C 595 TYPE II

3.4 AGGREGATES

- A. ASTM C 33

3.5 MILD REINFORCEMENT (ZONE III/CC-2)

- A. MILD REINFORCEMENT, ASTM A 615 GRADE 60
B. EPOXY COATING FOR PLAIN AND DEFORMED MILD REINFORCEMENT, ASTM A 775
C. WELDED PLAIN WIRE FABRIC SHEETS, ASTM A 185, GRADE 65
D. EPOXY COATING FOR PLAIN WELDED WIRE FABRIC, ASTM A 884
E. EPOXY COATING FOR DOWEL BARS SHALL BE THE SAME AS SPECIFIED FOR REINFORCEMENT TO BE SPICED.
F. CONCRETE PROTECTION SHALL BE PER ACI 308.1R, EXCEPT AS NOTED ON DRAWINGS AND SPECIFIED HEREIN. ALL EXPOSED REINFORCEMENT SHALL BE EPOXY COATED.

3.6 CONCRETE ACCESSORIES

- A. MISCELLANEOUS STEEL SHAPES, PLATES, AND BARS, ASTM A 36.
B. ANCHOR BOLTS, ASTM F 1554 GRADE 36.
C. POST-INSTALLED ANCHORS SHALL BE STAINLESS STEEL.
D. PERFORM PRECAST DOUBLE TEE FLANGE SHEAR CONNECTION REPAIRS AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY ENGINEER.

3.7 GROUT

- A. PREMIXED, PACKAGED, NON-SHRINK, CHLORIDE-FREE, NON-STAINING, FC = 6000 PSI MINIMUM, ASTM C 1107.

3.8 GENERAL CAST-IN-PLACE CONCRETE

- A. REINFORCEMENT
1. PROVIDE EXTRA REINFORCING AROUND ALL OPENINGS, TWO #5 BARS ON ALL FOUR SIDES OF EACH OPENING. EXTEND TWO FEET BEYOND CORNERS OF OPENING.
2. PROVIDE STANDARD 90 DEGREE BAR HOOKS UNLESS NOTED OTHERWISE ON DRAWINGS.
3. MINIMUM LENGTH OF LAP SPLICES SHALL BE BASED ON ACI 318 CLASS B, UNLESS NOTED OTHERWISE ON DRAWINGS.
4. REINFORCING STEEL SHALL NOT BE BENT OR STRAIGHTENED UNLESS APPROVED BY ENGINEER OR AS INDICATED ON DRAWINGS.
5. FIELD CUTTING OF REINFORCEMENT IS PROHIBITED UNLESS APPROVED BY ENGINEER.
6. WELDING OF REINFORCEMENT IS PROHIBITED UNLESS SPECIFICALLY CALLED FOR ON DRAWINGS OR APPROVED BY ENGINEER. DO NOT WELD EPOXY COATED REINFORCEMENT.
B. ACCESSORIES
1. ALL WELD ASSEMBLIES SHALL USE E70XX LOW HYDROGEN ELECTRODES. MINIMUM WELD SIZE IS 1/4 INCH. STAINLESS STEEL ELECTRODES SHALL BE TYPE 308L OR 347.
2. FOR FIELD WELDING GALVANIZED CONNECTION HARDWARE, REMOVE SLAG, WIRE BRUSH, AND APPLY THREE COATS OF Z.R.C. COLD GALVANIZING.
3. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN CONCRETE.
C. JOINTS
1. PROVIDE A 3/4 INCH CHAMFER ON EXPOSED CORNERS OF CONCRETE UNLESS OTHERWISE INDICATED ON DRAWINGS. TOP EDGES OF WALLS MAY BE TOOLED.
2. TOOL SLAB JOINTS AT THE TIME OF FINISHING. SAW CUTTING IS NOT ALLOWED UNLESS SPECIFICALLY CALLED FOR ON DRAWINGS OR APPROVED BY ENGINEER.
3. CONSTRUCTION JOINTS FOR SUPPORTED SLABS SHALL BE AS NOTED ON DRAWINGS OR AS APPROVED BY THE ENGINEER. TOOL CONTROL JOINTS IN CONCRETE PATCHES ABOVE ALL TEE TO TEE JOINTS.
4. CONSTRUCTION JOINTS SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE TO A FULL AMPLITUDE OF 1/4" AND LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LAITANCE.
5. TOOL CONTROL JOINTS IN CONCRETE PATCHES ABOVE ALL TEE TO TEE JOINTS.
D. GENERAL
1. THE USE OF CHLORIDES SUCH AS DEICING SALTS ARE PROHIBITED FOR USE OF MELTING ICE PRIOR TO PLACEMENT OF CONCRETE.

3.9 GALVANIC ANODES

- A. INSTALL GALVANIC ANODES IN CAVITIES TIED TO REINFORCEMENT AS DIRECTED BY ENGINEER.

DIVISION 05 - METALS

5.1 ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- A. AISC 360-10
B. AISC 341-10

5.2 CHANNELS ANGLES, M-SHAPES, S-SHAPES, ASTM A 36

5.3 PLATES AND BARS, ASTM A 36

5.4 CORROSION-RESISTING STRUCTURAL STEEL, ASTM A 588, GRADE 50

5.5 ALL WELDING SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS. ALL WELDS SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

7.1 JOINT SEALANTS

- A. ROUT AND SEAL CRACKS IN AREAS TO RECEIVE NEW TRAFFIC COATING.
B. REMOVE AND REPLACE ROUTED JOINT SEALANT IN AREAS TO RECEIVE NEW TRAFFIC COATING AS INDICATED ON THE DRAWINGS.
C. REMOVE AND REPLACE CONTROL AND COVE JOINT SEALANTS AS INDICATED ON DRAWINGS AND AS DIRECTED BY ENGINEER.
D. REMOVE AND REPLACE WALL JOINT SEALANTS AS INDICATED ON DRAWINGS.

7.2 TRAFFIC COATING

- A. INSTALL DECK COATING (FULL AND RECOAT SYSTEMS) AS INDICATED ON DRAWINGS AND AS DIRECTED BY ENGINEER.
B. INSTALL DECK COATING (FULL SYSTEM) AT CONCRETE REPAIRS WHERE THERE IS EXISTING DECK COATING.
C. INSTALL STRIP DECK COATING (FULL SYSTEM) AT REPLACED JOINT SEALANTS WHERE THERE IS EXISTING DECK COATING.

7.3 EXPANSION JOINTS

- A. REPAIR EXPANSION JOINT AS INDICATED ON DRAWINGS.

DIVISION 09 - FINISHES

9.1 CONCRETE STAIN

- A. STAIN VERTICAL AND OVERHEAD CONCRETE REPAIRS WHERE THERE IS EXISTING STAIN TO MATCH EXISTING.

9.2 ELASTOMERIC COATING

- A. INSTALL ELASTOMERIC COATING AT CONCRETE REPAIRS WHERE THERE IS EXISTING COATING.
B. COATING SHALL BE AN ELASTOMERIC ACRYLIC COATING OF A TEXTURE AND COLOR TO MATCH EXISTING.
C. REVIEWED ELASTOMERIC ACRYLIC COATINGS:
1. MASTERPROTECT EL 750, BASF, SHAKOPEE, MN.
2. NEOFLEX, NEOGARD CORPORATION, DALLAS, TX.
3. SIKAGARD 550W ELASTOCOLOR, SIKA CORPORATION, LYNDDURST, NJ.
4. OR APPROVED EQUIVALENT.
D. APPLY PRIMER AND 2 COATS FOR A TOTAL OF 18 DRY MILS THICKNESS.

DIVISION 22 - PLUMBING

22.1 REMOVE AND REPLACE FLOOR DRAIN AS INDICATED ON DRAWINGS.

DIVISION 32 - EXTERIOR IMPROVEMENTS

32.1 REPAINT PAVEMENT MARKINGS AT CONCRETE AND WATERPROOFING REPAIRS TO MATCH EXISTING.

ACI 318 REBAR DEVELOPMENT & SPLICE LENGTHS

Class A Lap Splice Lengths (Tension Development Lengths)

Table with columns for Bar Size, Lengths, Top, Others, Fc (4000 psi, 60 ksi), fy (60 ksi, 60 ksi). Rows #3 to #11.

Class B Lap Splice Lengths

Table with columns for Bar Size, Lengths, Top, Others, Fc (4000 psi, 5000 psi), fy (60 ksi, 60 ksi). Rows #3 to #11.

NOTES:

- 1. All top bars are defined as horizontal bars with more than 12" of concrete placed below bars.
2. When two different size bars are lapped together, the lap length shall be the larger of the development length of the larger bar or the class B lap length of the smaller bar.
3. The following criteria must be met: Clear spacing of bars being developed or spliced must not be less than db, clear cover not less than db, and stirrups and ties throughout ld not less than the code minimum or clear spacing of bars being developed or spliced not less than 2db and clear cover not less than db. Otherwise multiply values in table by 1.5.
4. For bundled bars multiply the lengths shown in the tables by 1.20 for 3 bar bundles and 1.33 for 4 bar bundles. Do not bundle more than 4 bars.

ABBREVIATIONS

- ADDL = ADDITIONAL
ALT = ALTERNATE
ARCH = ARCHITECTURAL
BRG = BEARING
CIP = CAST-IN-PLACE CONCRETE
CJ = CONSTRUCTION JOINT
CLR = CLEAR
CMU = CONCRETE MASONRY UNIT
COL = COLUMN
CONC = CONCRETE
CONN = CONNECTION
CONT = CONTINUOUS
DET = DETAIL
DIA = DIAMETER
DWL = DOWEL
EA = EACH
EC = EPOXY COATED
EL = ELEVATION
ELEC = ELECTRICAL
EQ = EQUAL
EXIST = EXISTING
EXP = EXPANSION
FD = FLOOR DRAIN
FT = FOOT
GA = GAUGE
GALV = GALVANIZED
GC = GENERAL CONTRACTOR
GGBS = GROUND GRANULATED BLAST-FURNACE SLAG
HK = HOOK
HORIZ = HORIZONTAL
JT = JOINT
MECH = MECHANICAL
MFR = MANUFACTURER
MIN = MINIMUM
NOM = NOMINAL
NSNS = NON-SHRINK, NON-STAIN
NTS = NOT TO SCALE
OC = OFF CENTER
PCC = PRECAST CONCRETE
PT = POST-TENSIONED
REINF = REINFORCING
REQD = REQUIRED
SECT = SECTION
SIM = SIMILAR
SOG = SLAB ON GRADE
SPEC = SPECIFICATION
SS = STAINLESS STEEL
STD = STANDARD
STL = STEEL
TEMP = TEMPERATURE
TYP = TYPICAL
UNO = UNLESS NOTED OTHERWISE
VERT = VERTICAL
VIF = VERIFY IN FIELD
W = WITH
WWF = WELDED WIRE FABRIC
ZRC = ZINC RICH COATING

City of Plymouth

Plymouth, Michigan

Central Parking Structure Restoration 2023

REVISIONS

03/23/2023 Bidding & Construction

Drawn By DEB
Designer JBT
Reviewer JKG
Manager JBT

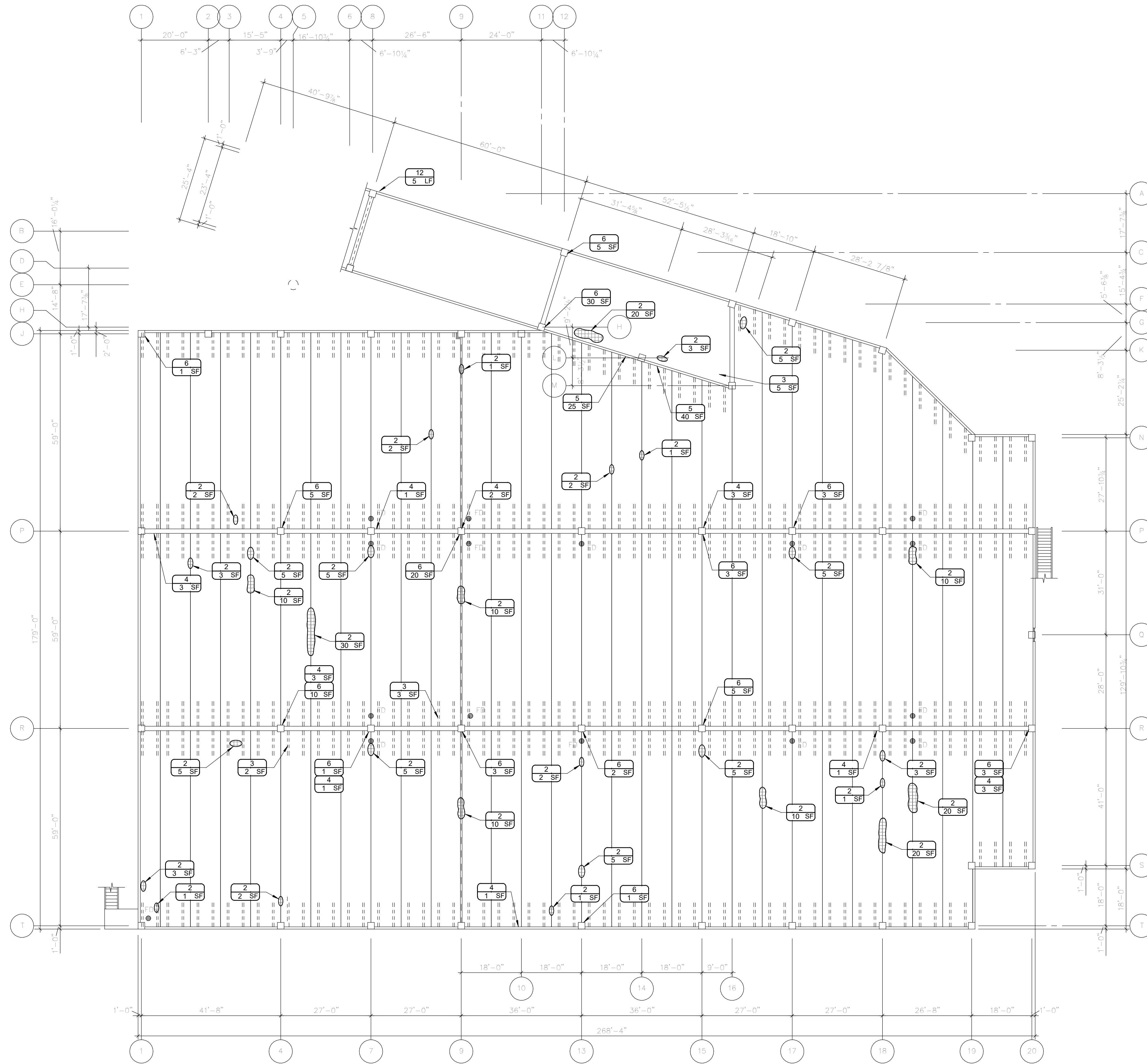
Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO. 220597

SHEET NO.

G002

PLOT INFO: 3/23/2023 9:02:12 AM C:\Work\Revit\2022\_PK\_220597\_2023\_dan.brown\DPVZ.rvt



**LEVEL 1 PLAN - REFLECTED CEILING**  
SCALE: 1/16" = 1'-0"  
NORTH

**SYMBOLS LEGEND**

- WORK ITEM NUMBER, REFER TO LIST BELOW
- QUANTITY UNIT
- QUANTITY OF REPAIR
- FLOOR REPAIR HATCH
- SOFFIT REPAIR HATCH
- DECK COATING (FULL SYSTEM)
- DECK COATING (RECOAT SYSTEM)
- CRACK SYMBOL

**WORK ITEM NOTES**

1. TOPPING REPAIR, REFER TO DETAIL 4/SR501.
2. TEE FLANGE/CEILING REPAIR, REFER TO DETAIL 6/SR501.
3. TEE STEM REPAIR, REFER TO DETAIL 7/SR501.
4. BEAM REPAIR, REFER TO DETAIL 8/SR501.
5. WALL/SPANDREL REPAIR, REFER TO DETAIL 9/SR501.
6. COLUMN/HAUNCH REPAIR, REFER TO DETAIL 10, 11/SR501.
7. TOP OF COLUMN REPAIR, REFER TO DETAIL 15/SR501.
8. CURB REPAIR, REFER TO DETAIL 13/SR501.
9. REMOVE & REPLACE ROUTED JOINT SEALANT, REFER TO DETAIL 1, 2/SR511.
10. REMOVE & REPLACE CONTROL JOINT SEALANT, REFER TO DETAIL 3, 4/SR511.
11. REMOVE & REPLACE COVE JOINT SEALANT, REFER TO DETAIL 5, 6/SR511.
12. REMOVE & REPLACE WALL JOINT SEALANT (SILICONE), REFER TO DETAIL 7/SR511.
13. INSTALL WALL JOINT SEALANT (SILICONE), REFER TO DETAIL 7/SR511.
14. EXPANSION JOINT NOSING REPAIR, REFER TO DETAIL 8/SR511.
15. INSTALL DECK COATING (RECOAT SYSTEM), REFER TO DETAIL 9, 10/SR511.
16. DECK COATING REPAIR (FULL SYSTEM), REFER TO DETAIL 11/SR511.
17. INSTALL DECK COATING (FULL SYSTEM), REFER TO DETAIL 9, 10/SR511.
18. INSTALL STRIP DECK COATING (FULL SYSTEM), REFER TO DETAIL 12/SR511.
19. REMOVE & REPLACE FLOOR DRAIN, REFER TO DETAIL 13/SR511.
20. SHEAR CONNECTION REPAIR - INSTALLATION OF V2 CFRP TEE BISCUIT SYSTEM, REFER TO DETAIL 12/SR501.

**SHEET NOTES**

1. REFER TO G002 FOR GENERAL NOTES.
2. REPAIRS SHOWN ON PLANS ARE FOR THE SOFFIT (OVERHEAD).
3. REMOVE & RE-INSTALL PIGEON CONTROL PANELS TO PERFORM REPAIRS, AS NECESSARY.

**REVISIONS**

03/23/2023 Bidding & Construction

Drawn By DEB  
Designer JBT  
Reviewer JKG  
Manager JBT

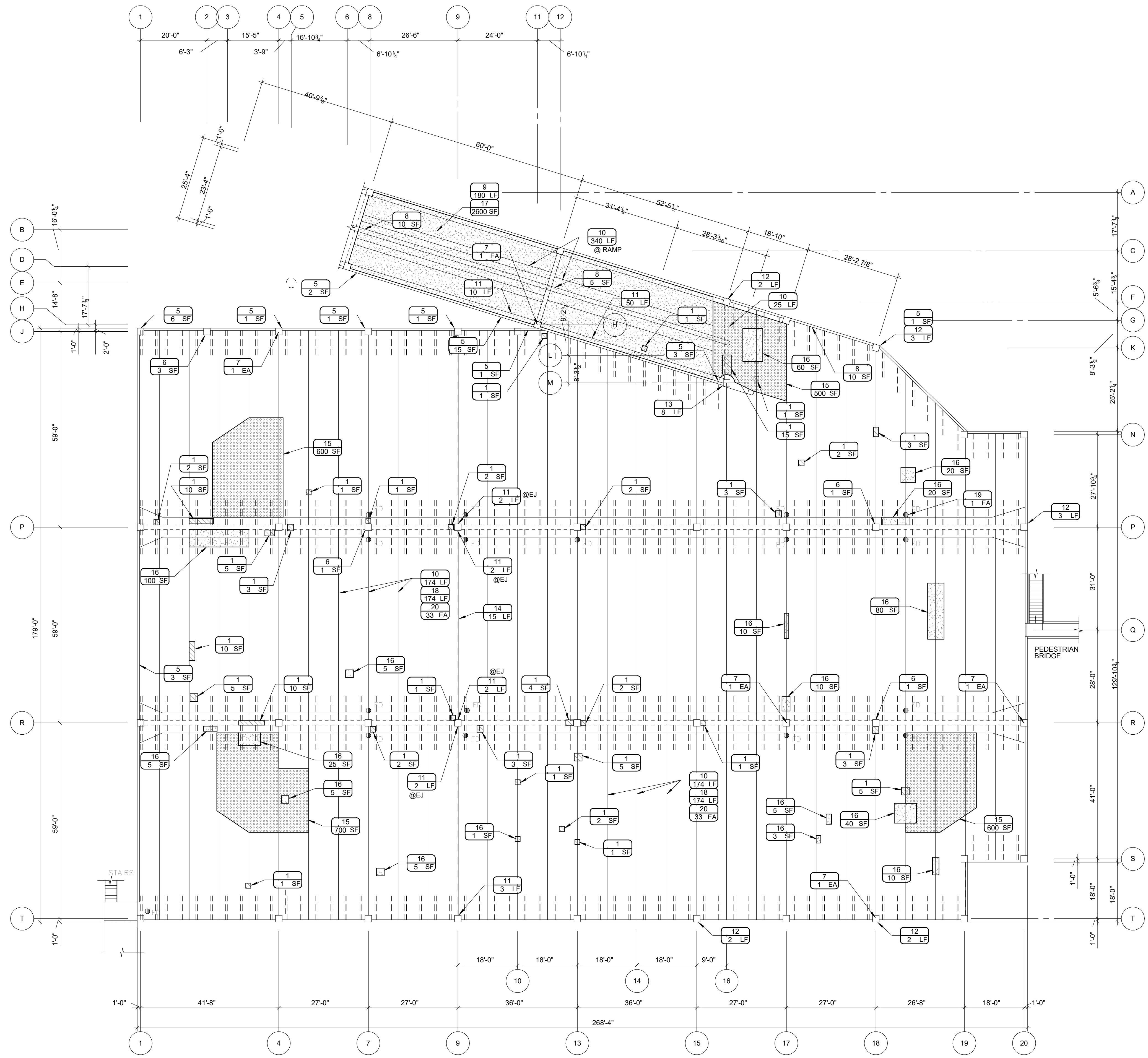
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PROJECT NO.  
220597

SHEET NO.

**SR101**

PLOT INFO: 3/23/2023 9:02:14 AM C:\Work\Revit\2022\_PK\_220597\_2023\_dan.brown\DPVZ.rvt



**LEVEL 2 PLAN**  
SCALE: 1/16" = 1'-0"  
NORTH

**SYMBOLS LEGEND**

- XXX  
X SF WORK ITEM NUMBER, REFER TO LIST BELOW
- X SF QUANTITY UNIT
- X SF QUANTITY OF REPAIR
- FLOOR REPAIR HATCH
- SOFFIT REPAIR HATCH
- DECK COATING (FULL SYSTEM)
- DECK COATING (RECOAT SYSTEM)
- CRACK SYMBOL

**WORK ITEM NOTES**

1. TOPPING REPAIR, REFER TO DETAIL 4/SR501.
2. TEE FLANGE/CEILING REPAIR, REFER TO DETAIL 6/SR501
3. TEE STEM REPAIR, REFER TO DETAIL 7/SR501.
4. BEAM REPAIR, REFER TO DETAIL 8/SR501.
5. WALL/SPANDREL REPAIR, REFER TO DETAIL 9/SR501.
6. COLUMN/HAUNCH REPAIR, REFER TO DETAIL 10, 11/SR501.
7. TOP OF COLUMN REPAIR, REFER TO DETAIL 15/SR501.
8. CURB REPAIR, REFER TO DETAIL 13/SR501.
9. REMOVE & REPLACE ROUTED JOINT SEALANT, REFER TO DETAIL 1, 2/SR511.
10. REMOVE & REPLACE CONTROL JOINT SEALANT, REFER TO DETAIL 3, 4/SR511.
11. REMOVE & REPLACE COVE JOINT SEALANT, REFER TO DETAIL 5, 6/SR511.
12. REMOVE & REPLACE WALL JOINT SEALANT (SILICONE), REFER TO DETAIL 7/SR511.
13. INSTALL WALL JOINT SEALANT (SILICONE), REFER TO DETAIL 7/SR511.
14. EXPANSION JOINT NOSING REPAIR, REFER TO DETAIL 8/SR511.
15. INSTALL DECK COATING (RECOAT SYSTEM), REFER TO DETAIL 9, 10/SR511.
16. DECK COATING REPAIR (FULL SYSTEM), REFER TO DETAIL 11/SR511.
17. INSTALL DECK COATING (FULL SYSTEM), REFER TO DETAIL 9, 10/SR511.
18. INSTALL STRIP DECK COATING (FULL SYSTEM), REFER TO DETAIL 12/SR511.
19. REMOVE & REPLACE FLOOR DRAIN, REFER TO DETAIL 13/SR511.
20. SHEAR CONNECTION REPAIR - INSTALLATION OF V2 CFRP TEE BISCUIT SYSTEM, REFER TO DETAIL 12/SR501.

**SHEET NOTES**

1. REFER TO G002 FOR GENERAL NOTES.
2. SUPPORTED SLAB AND PEDESTRIAN BRIDGE HAVE AN EXISTING DECK COATING, EXCEPT AT VEHICULAR RAMP.
3. ALL COLUMNS AND WALLS HAVE AN EXISTING ELASTOMERIC COATING AT THE INTERIOR OF LEVEL 2, INCLUDING THE PEDESTRIAN BRIDGE.

**REVISIONS**

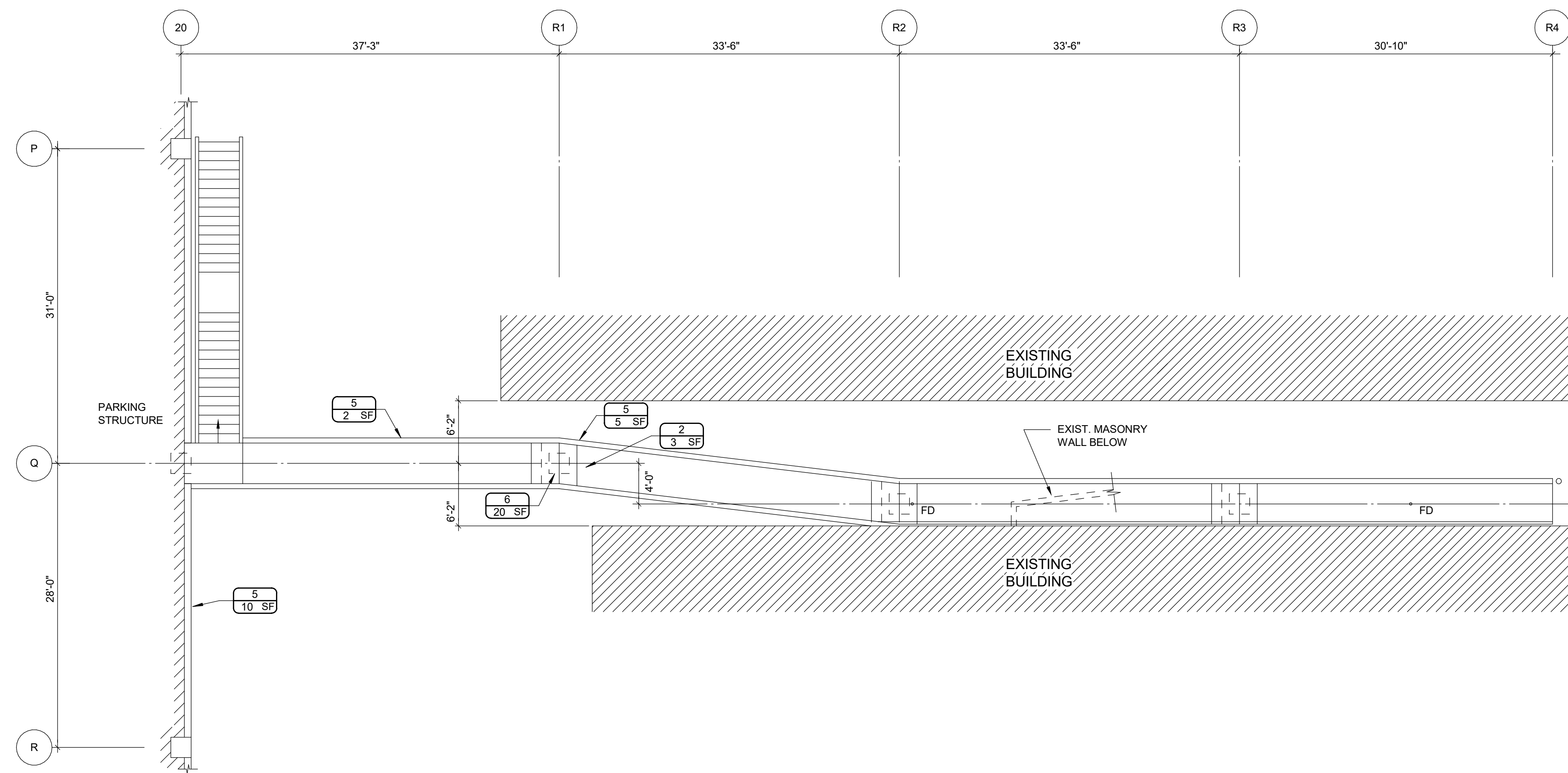
03/23/2023 Bidding & Construction  
Drawn By DEB  
Designer JBT  
Reviewer JKG  
Manager JBT

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PROJECT NO.  
**220597**  
SHEET NO.

**SR102**

PLOT INFO: 3/23/2023 9:02:15 AM C:\Work\Revit\2022\_PK\_220597\_2023\_dan.brown\DPVZ.rvt



**EAST STAIR AND PEDESTRIAN BRIDGE**  
SCALE: 1/8" = 1'-0"

**SYMBOLS LEGEND**

- WORK ITEM NUMBER, REFER TO LIST BELOW  
QUANTITY UNIT  
QUANTITY OF REPAIR
- FLOOR REPAIR HATCH
- SOFFIT REPAIR HATCH
- DECK COATING (FULL SYSTEM)
- DECK COATING (RECOAT SYSTEM)
- CRACK SYMBOL

**WORK ITEM NOTES**

1. TOPPING REPAIR, REFER TO DETAIL 4/SR501.
2. TEE FLANGE/CEILING REPAIR, REFER TO DETAIL 6/SR501
3. TEE STEM REPAIR, REFER TO DETAIL 7/SR501.
4. BEAM REPAIR, REFER TO DETAIL 8/SR501.
5. WALL/SPANDREL REPAIR, REFER TO DETAIL 9/SR501.
6. COLUMN/HAUNCH REPAIR, REFER TO DETAIL 10, 11/SR501.
7. TOP OF COLUMN REPAIR, REFER TO DETAIL 15/SR501.
8. CURB REPAIR, REFER TO DETAIL 13/SR501.
9. REMOVE & REPLACE ROUTED JOINT SEALANT, REFER TO DETAIL 1, 2/SR511.
10. REMOVE & REPLACE CONTROL JOINT SEALANT, REFER TO DETAIL 3, 4/SR511.
11. REMOVE & REPLACE COVE JOINT SEALANT, REFER TO DETAIL 5, 6/SR511.
12. REMOVE & REPLACE WALL JOINT SEALANT (SILICONE), REFER TO DETAIL 7/SR511.
13. INSTALL WALL JOINT SEALANT (SILICONE), REFER TO DETAIL 7/SR511.
14. EXPANSION JOINT NOSING REPAIR, REFER TO DETAIL 8/SR511.
15. INSTALL DECK COATING (RECOAT SYSTEM), REFER TO DETAIL 9, 10/SR511.
16. DECK COATING REPAIR (FULL SYSTEM), REFER TO DETAIL 11/SR511.
17. INSTALL DECK COATING (FULL SYSTEM), REFER TO DETAIL 9, 10/SR511.
18. INSTALL STRIP DECK COATING (FULL SYSTEM), REFER TO DETAIL 12/SR511.
19. REMOVE & REPLACE FLOOR DRAIN, REFER TO DETAIL 13/SR511.
20. SHEAR CONNECTION REPAIR - INSTALLATION OF V2 CFRP TEE BISCUIT SYSTEM, REFER TO DETAIL 12/SR501.

**SHEET NOTES**

1. REFER TO G002 FOR GENERAL NOTES.

**REVISIONS**

03/23/2023 Bidding & Construction

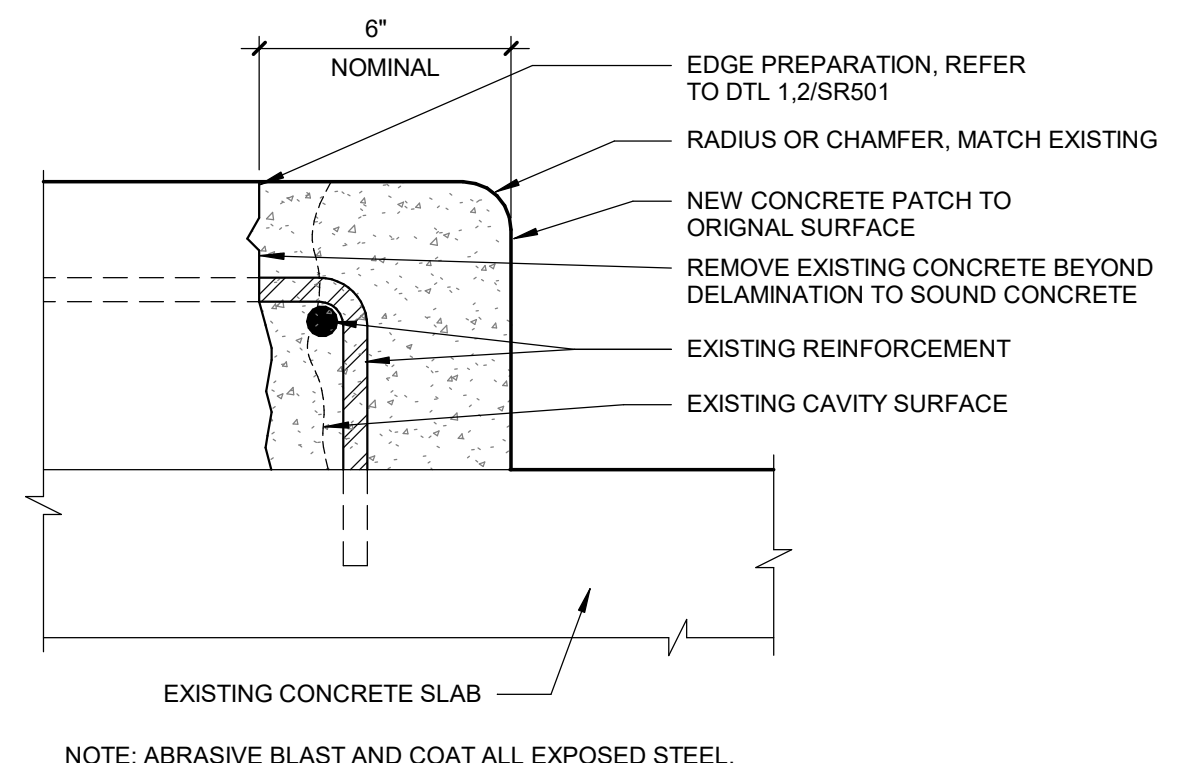
Drawn By DEB  
Designer JBT  
Reviewer JKG  
Manager JBT

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.  
220597

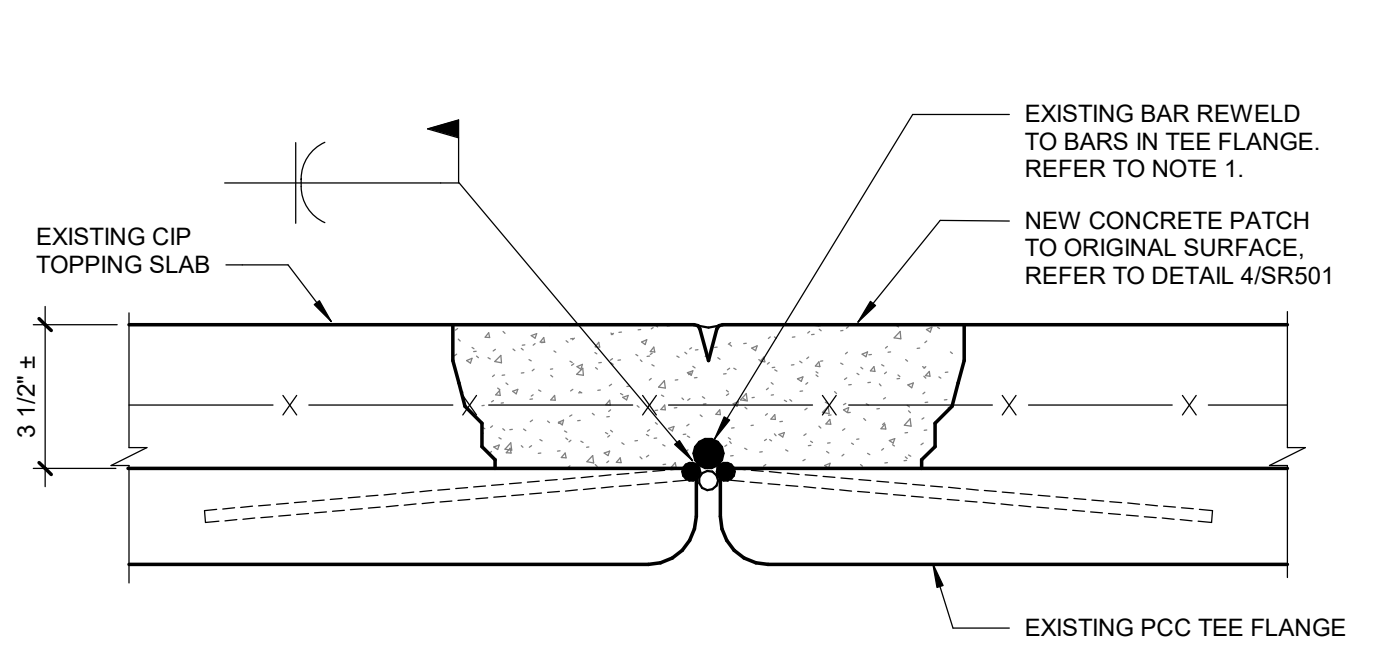
SHEET NO.

**SR103**



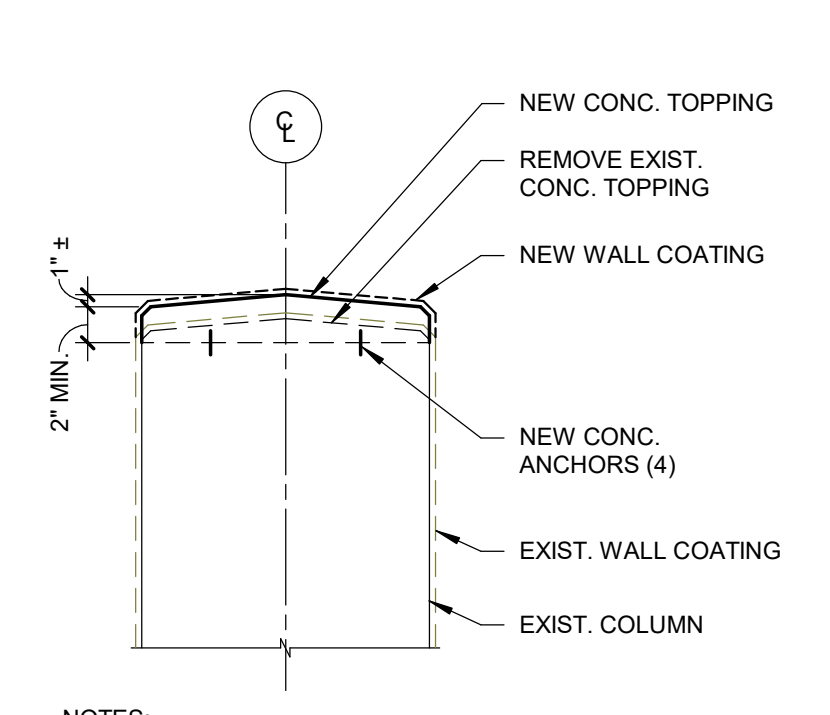
**13 CURB DELAMINATION REPAIR**  
 SCALE: 3" = 1'-0"

NOTE: ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



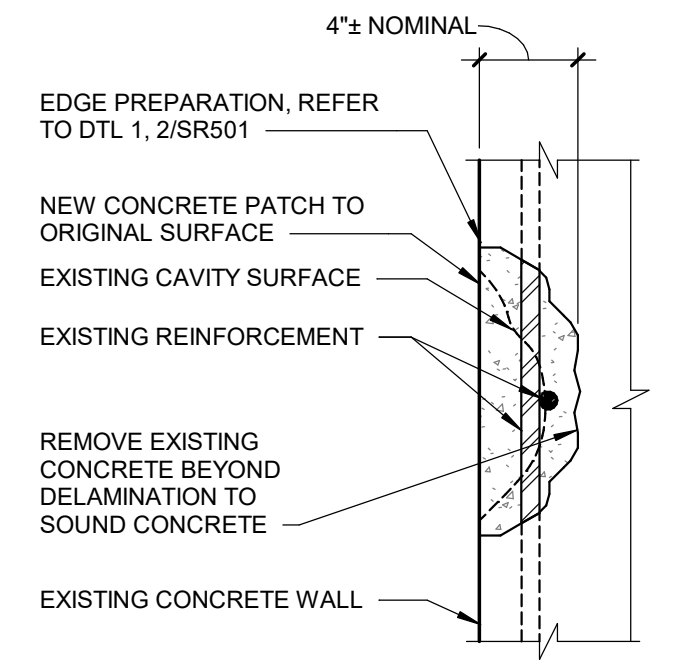
**14 SHEAR CONNECTOR REPAIR-WELD**  
 SCALE: 3" = 1'-0"

NOTES:  
 1. PROVIDE NEW BAR IF EXISTING BAR IS DAMAGED.



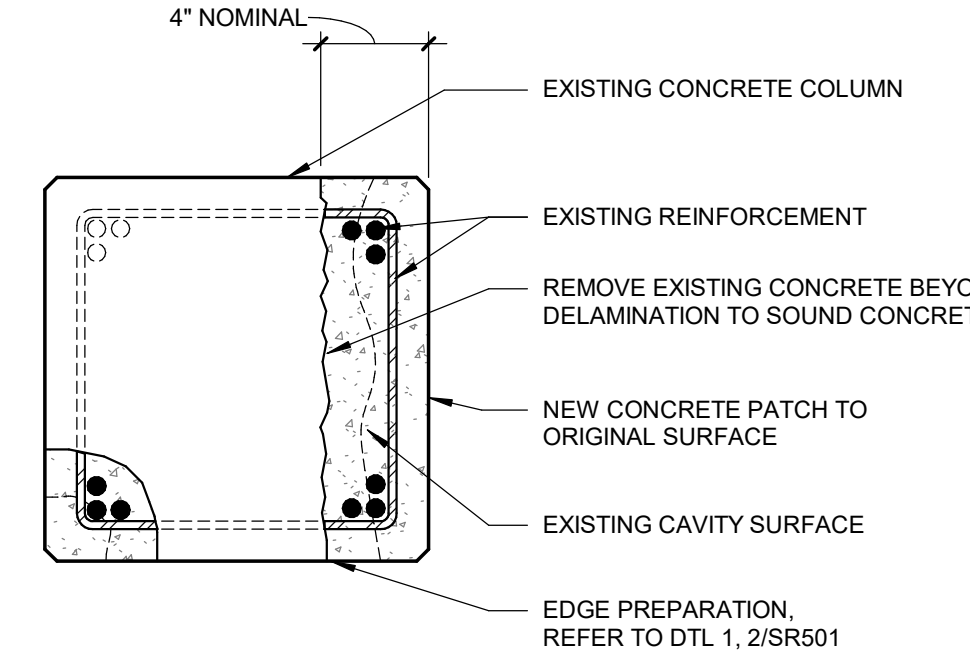
**15 TOP OF COLUMN REPAIR DETAIL**  
 SCALE: 3/4" = 1'-0"

NOTES:  
 1. NEW COATING AND ANCHORS ARE INCIDENTAL.



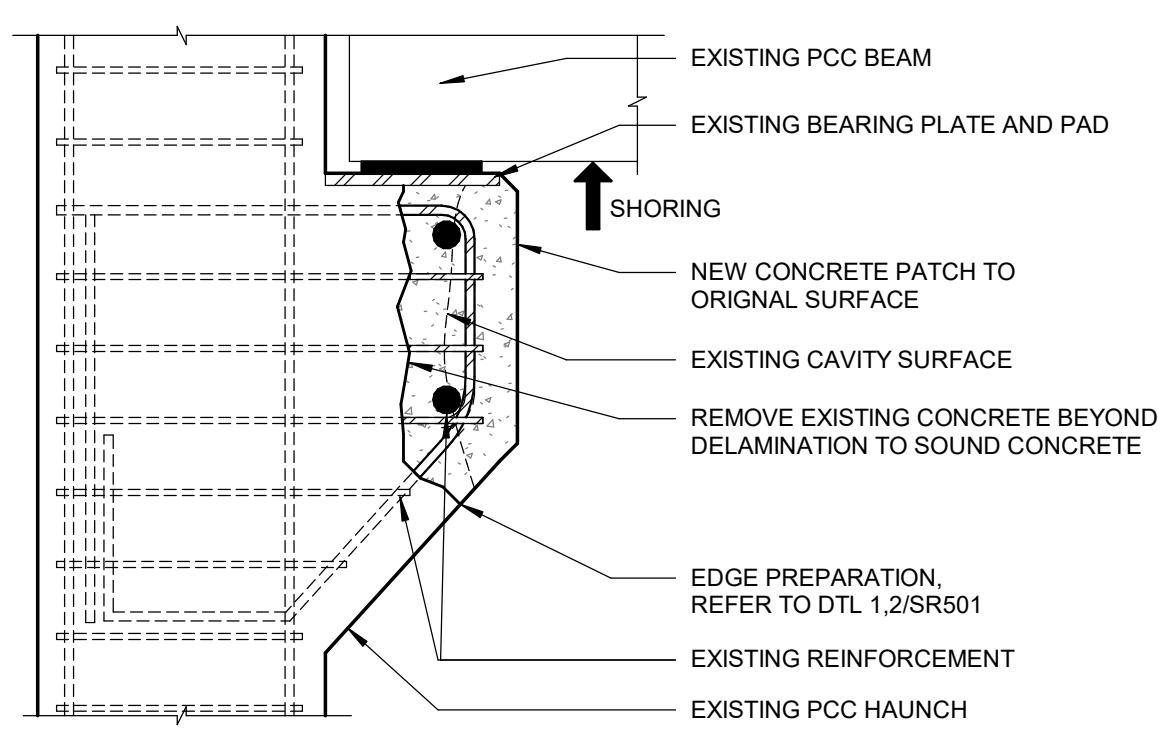
**9 WALL DELAMINATION REPAIR**  
 SCALE: 3" = 1'-0"

NOTES:  
 1. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



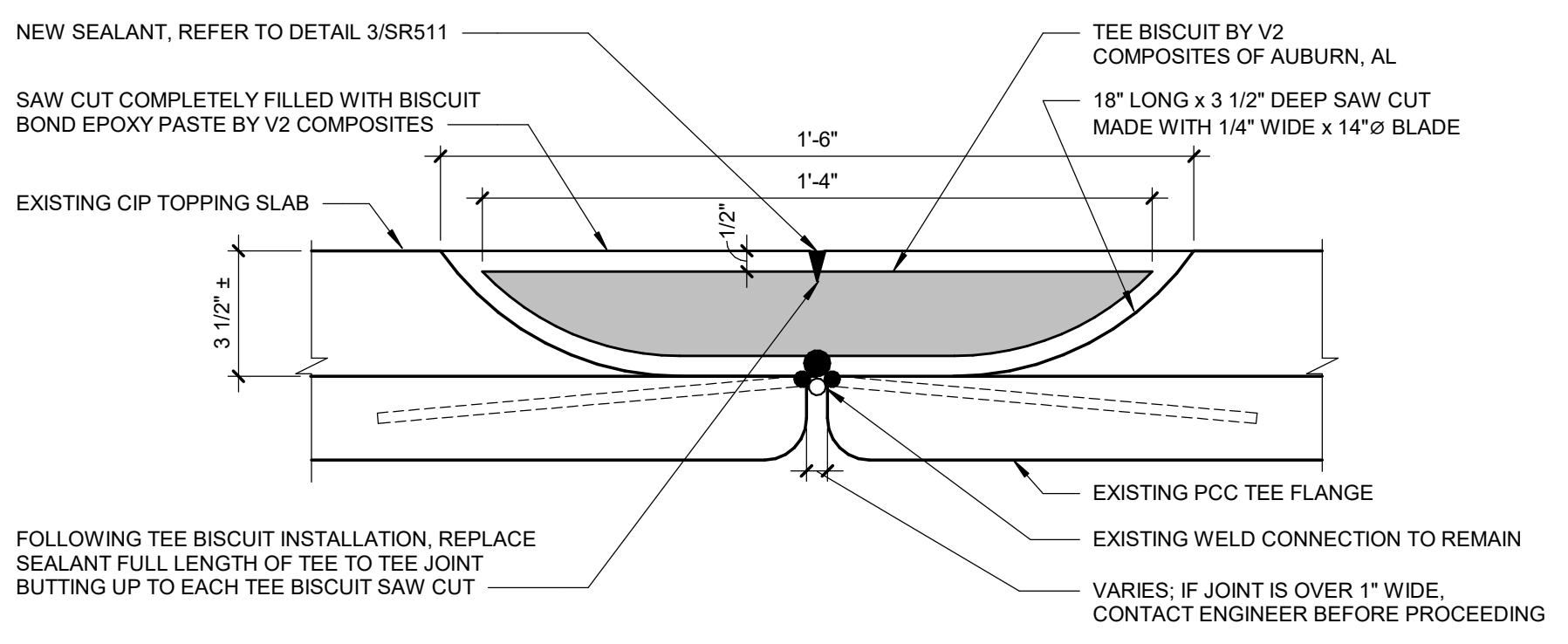
**10 COLUMN DELAMINATION REPAIR**  
 SCALE: 1" = 1'-0"

NOTES:  
 1. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



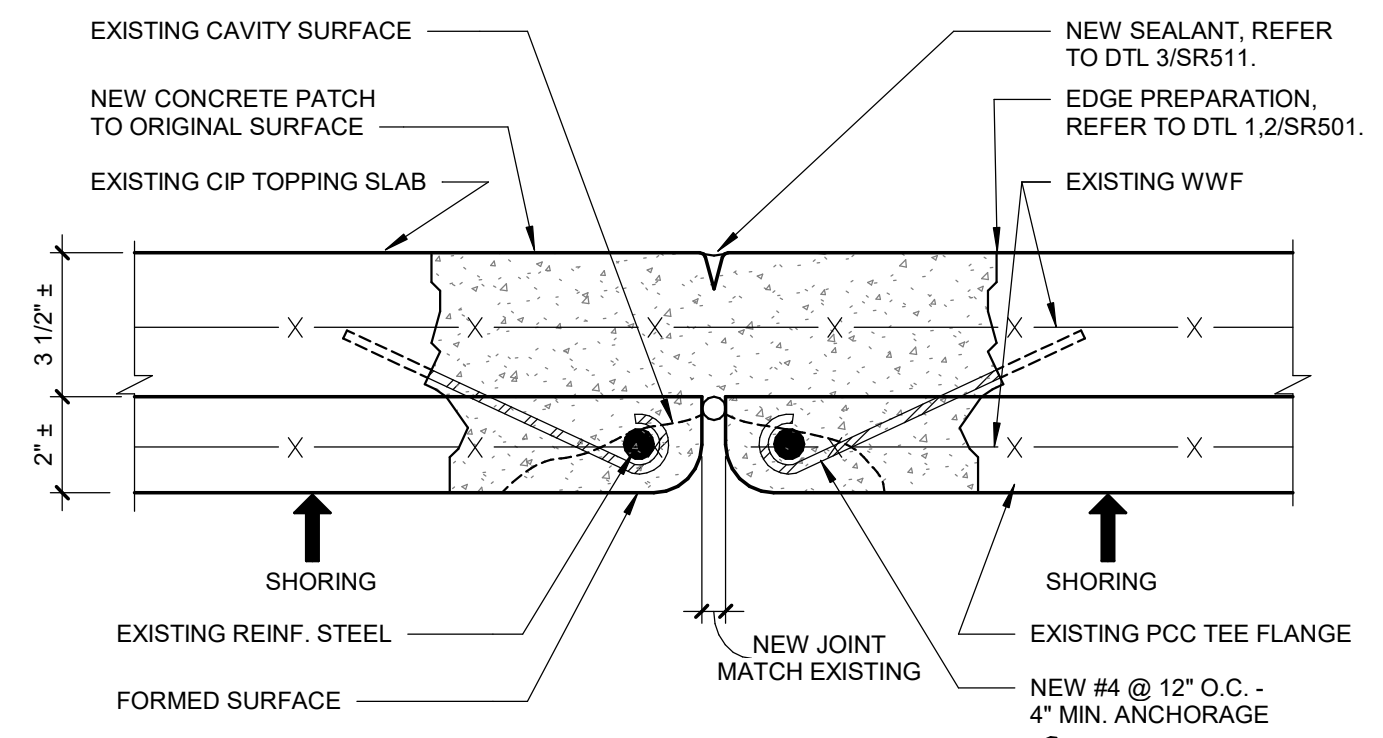
**11 PCC HAUNCH REPAIR**  
 SCALE: 1 1/2" = 1'-0"

NOTES:  
 1. PROVIDE SHORING ALONG PCC BEAM PRIOR TO DEMOLITION.  
 2. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



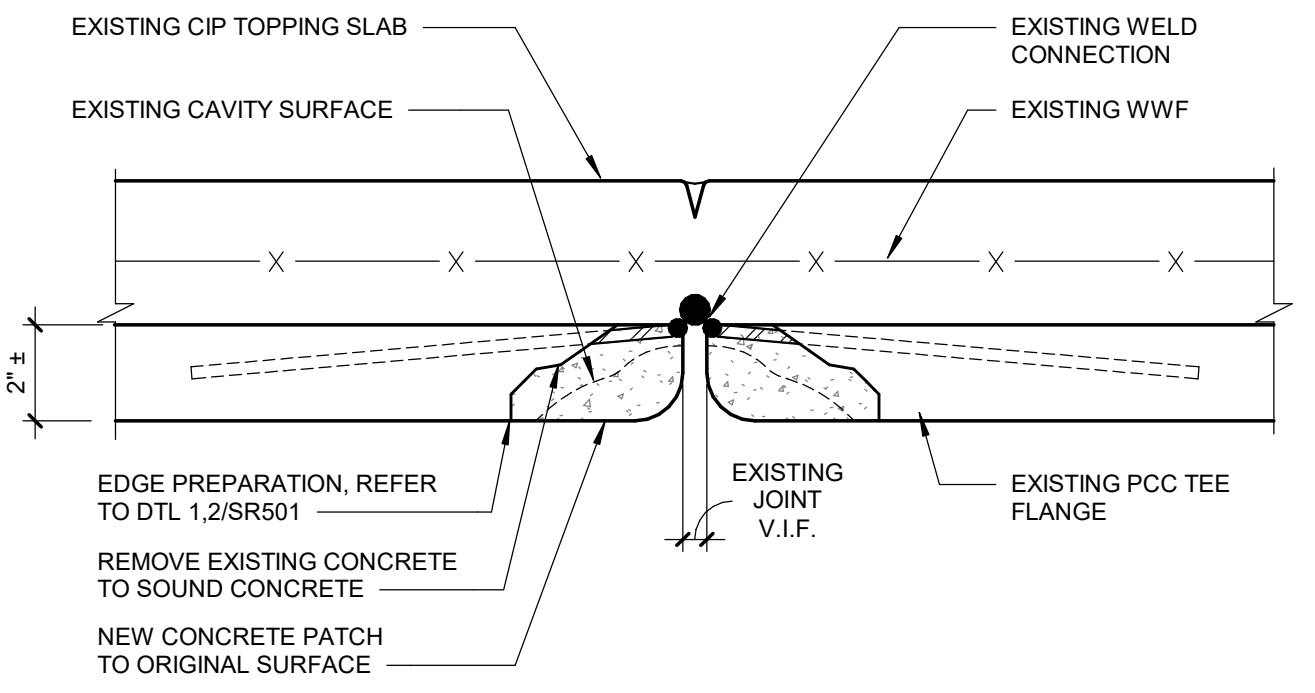
**12 SHEAR CONNECTOR REPAIR - BISCUIT SYSTEM**  
 SCALE: 3" = 1'-0"

NOTES:  
 1. WET SAW CUT, POWER WASH OUT CUTS AND ALLOW TO DRY FOR 24 HOURS AND THEN BLOW OUT WITH CLEAN COMPRESSED AIR.  
 2. INSTALL V2 CFRP BISCUITS AT EXISTING SHEAR CONNECTORS, APPROXIMATELY 5'-0" OC.



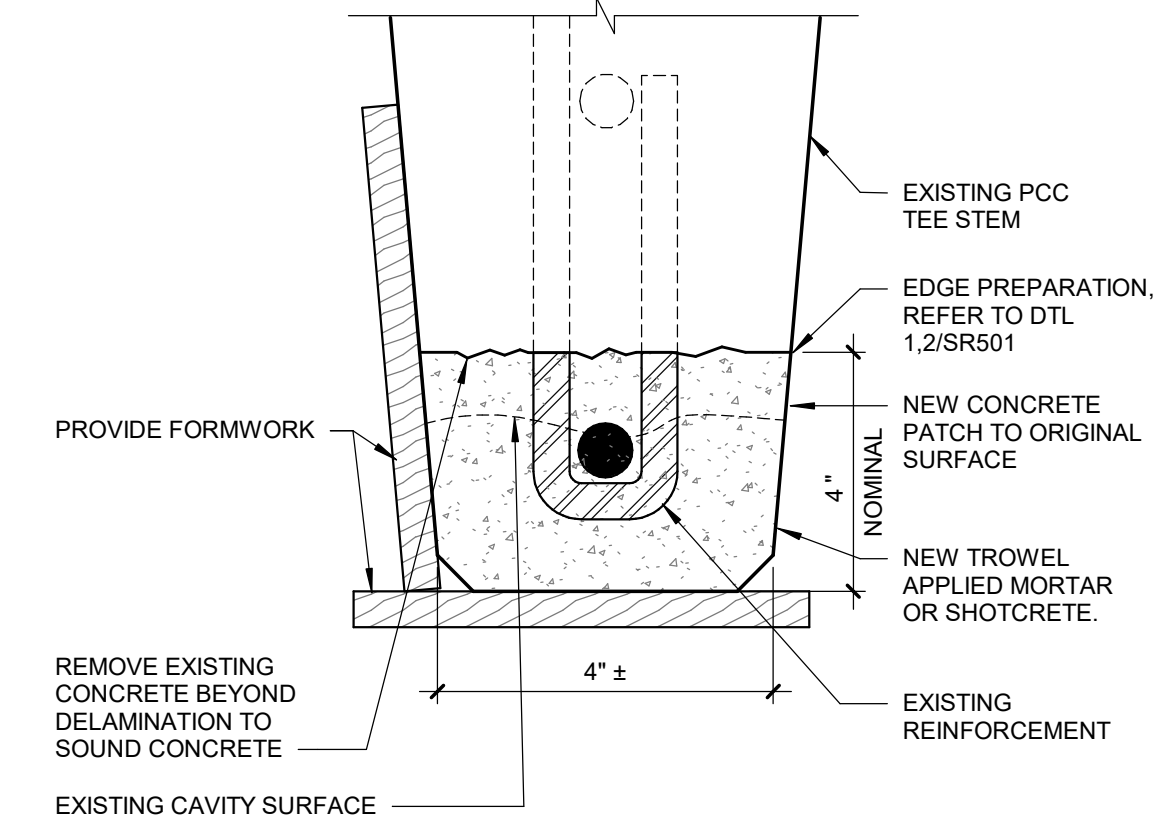
**5 PCC FLANGE REPAIR - FULL DEPTH**  
 SCALE: 3" = 1'-0"

NOTES:  
 1. NOTIFY ENGINEER IF WELD CONNECTION IS DAMAGED OR HAS FAILED.  
 2. PROVIDE SHORING ALONG PCC TEE FLANGE PRIOR TO DEMOLITION.  
 3. IF EXISTING WWF IS DAMAGED, REMOVE AND SPLICE WITH EPOXY COATED 6 x 6 - W2.9 x W2.9 WWF. REFER TO DTL 3/SR501.  
 4. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



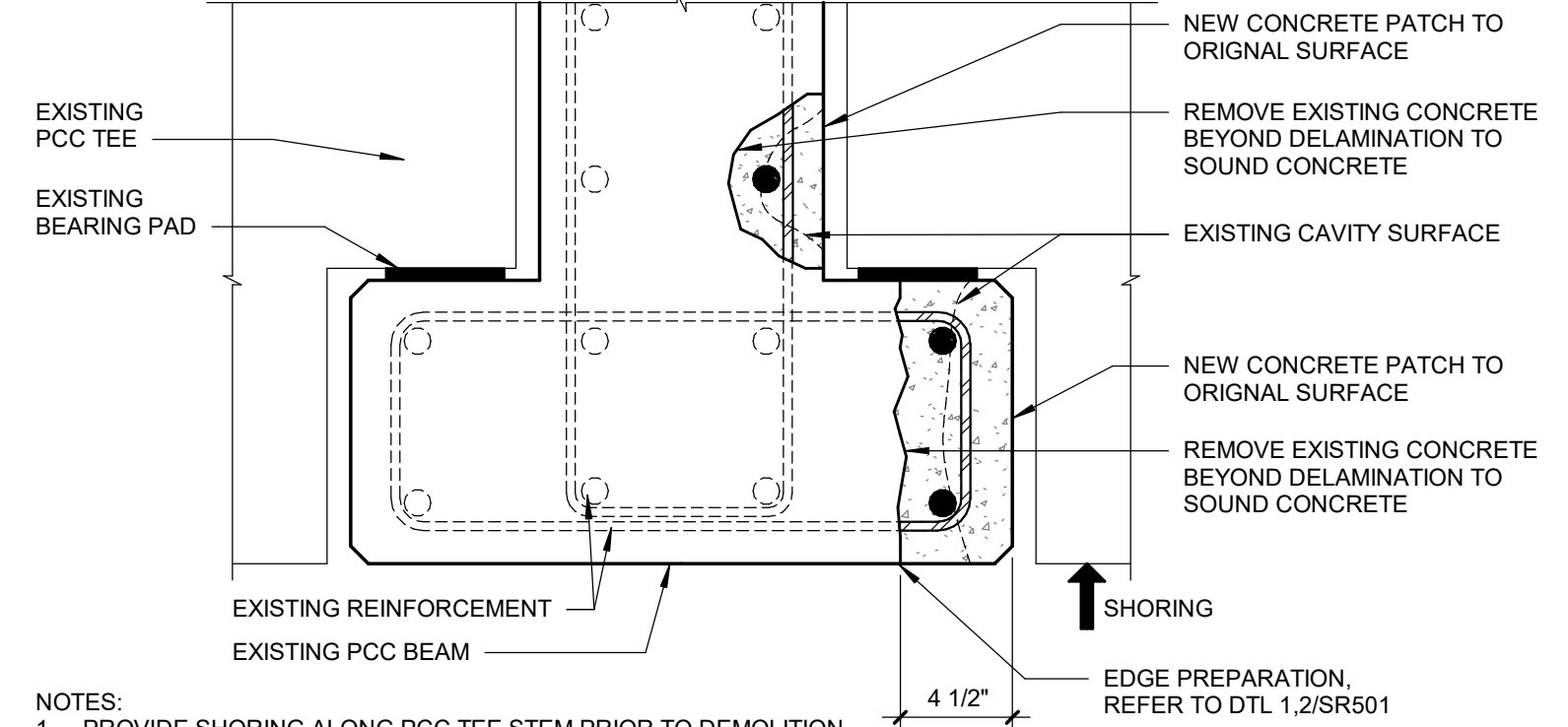
**6 PCC PARTIAL DEPTH FLANGE REPAIR**  
 SCALE: 3" = 1'-0"

NOTES:  
 1. ANY DAMAGE TO EXISTING WELD CONNECTION CAUSED BY CONCRETE REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.  
 2. NOTIFY ENGINEER IF WELD CONNECTION IS DAMAGED OR HAS FAILED.  
 3. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



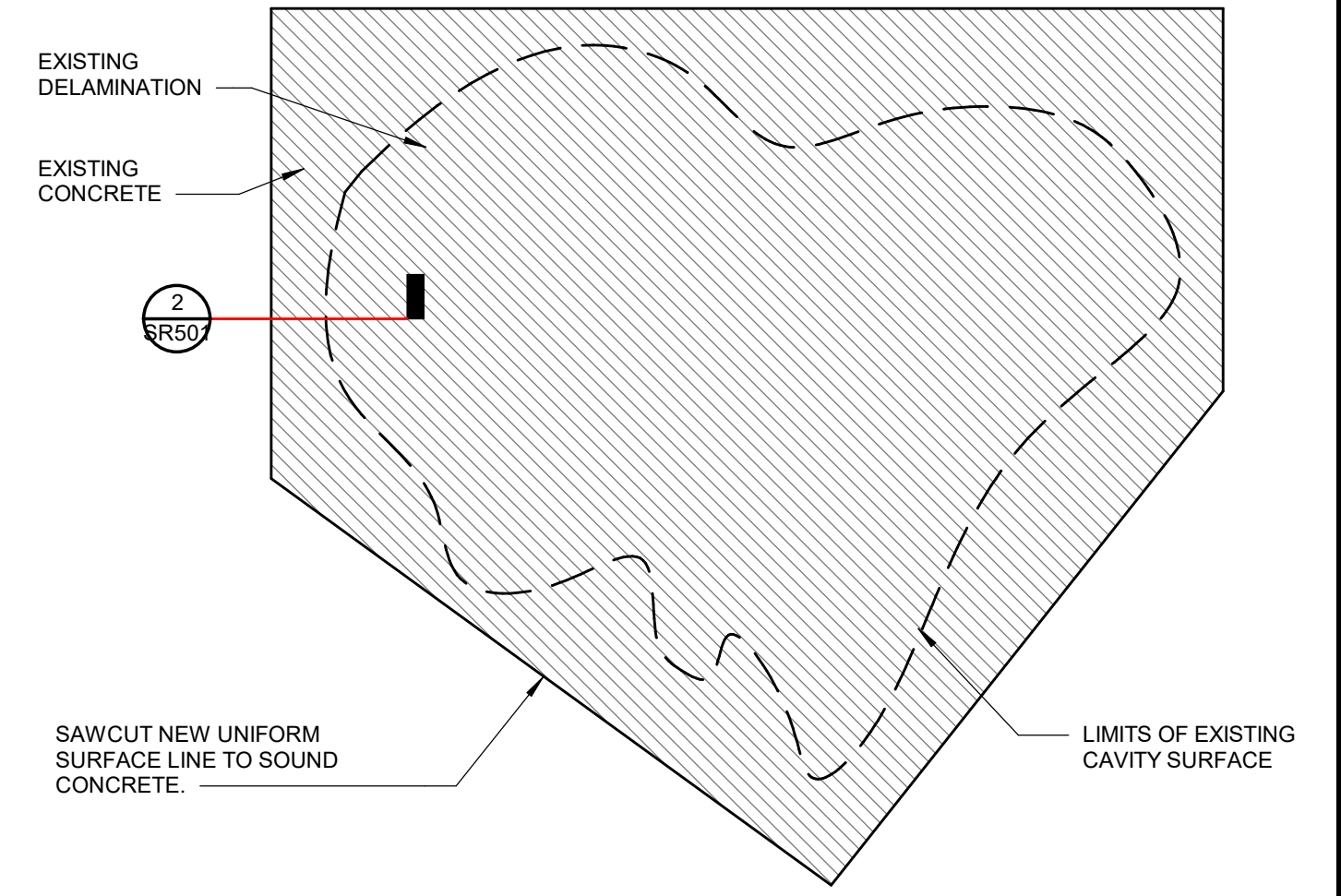
**7 TEE STEM DELAMINATION REPAIR**  
 SCALE: 3" = 1'-0"

NOTES:  
 1. DO NOT DAMAGE EXISTING PRESTRESS STRAND. NOTIFY ENGINEER IMMEDIATELY IF PRESTRESS STRANDS ARE BROKEN OR SIGNIFICANTLY DETRIORATED UPON INSPECTION.  
 2. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.  
 3. CHAMFER CORNERS TO MATCH ORIGINAL STEM PROFILE.  
 4. MEASURE FOR PAY UNIT IS BASED ON FACE OF TEE STEM.

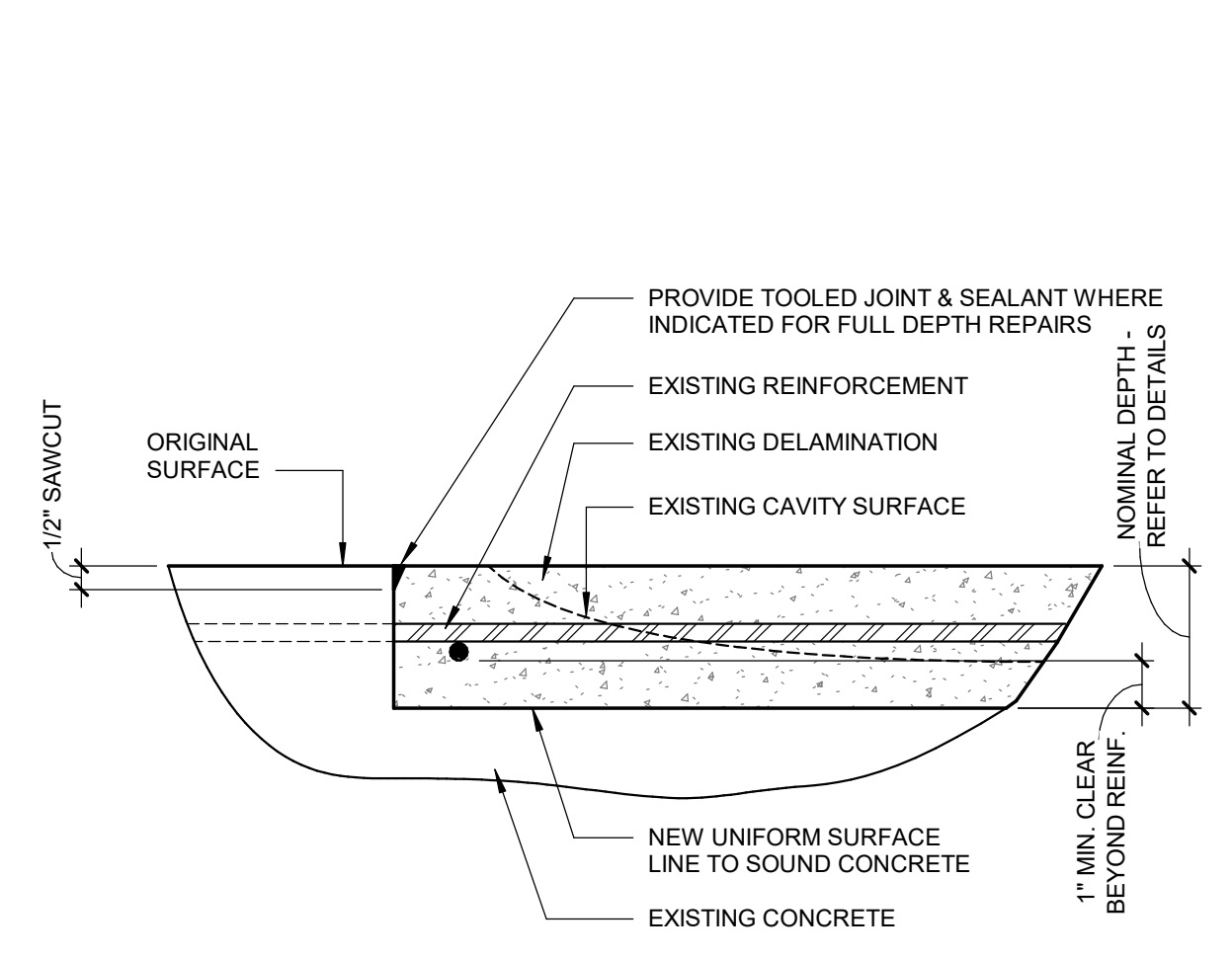


**8 BEAM DELAMINATION REPAIR**  
 SCALE: 1 1/2" = 1'-0"

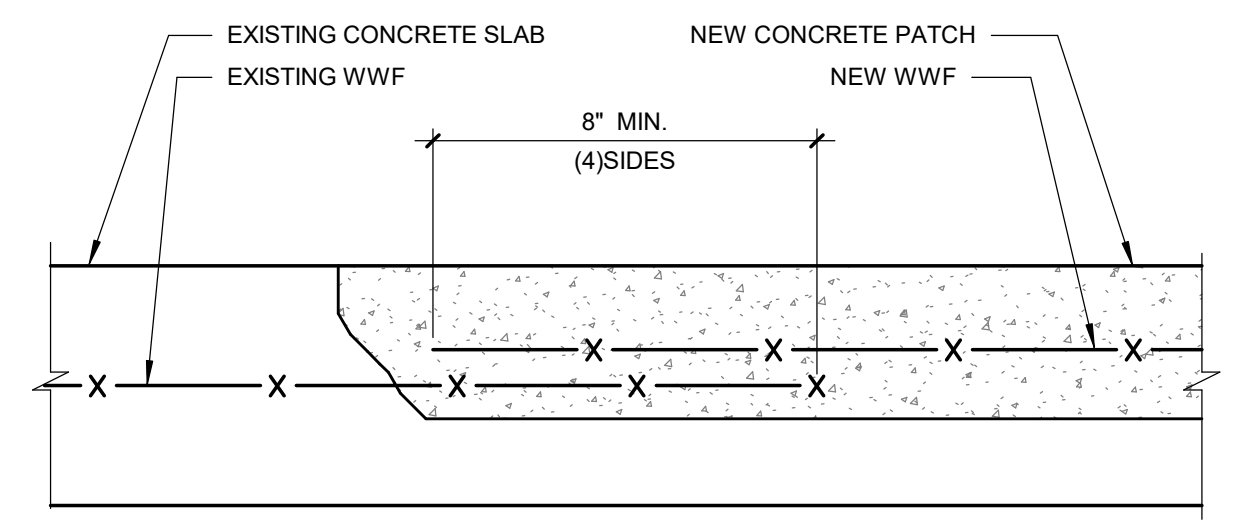
NOTES:  
 1. PROVIDE SHORING ALONG PCC TEE STEM PRIOR TO DEMOLITION.  
 2. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



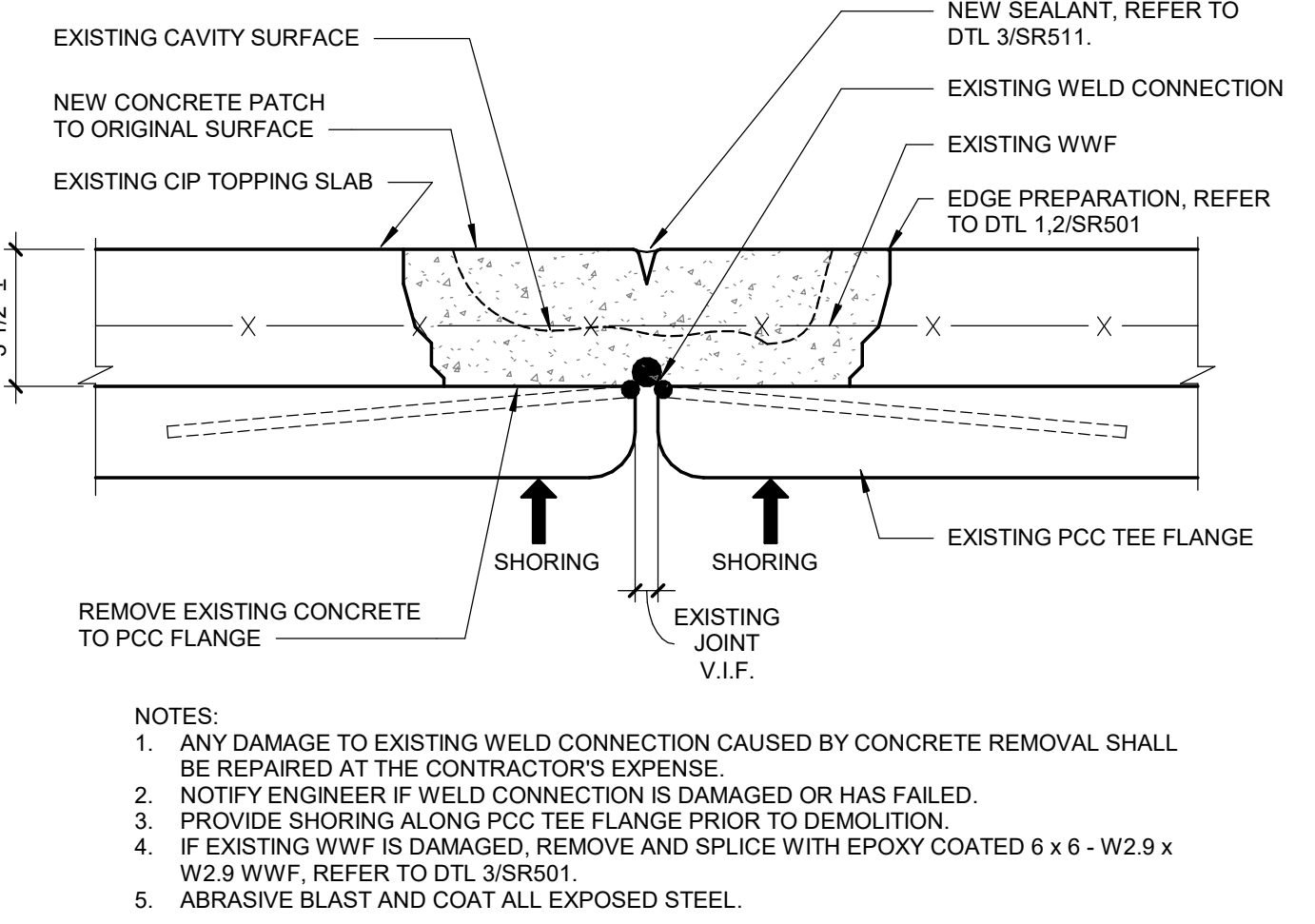
**1 EDGE PREPERATION DETAIL - PLAN VIEW**  
 SCALE: 3" = 1'-0"



**2 EDGE PREPERATION DETAIL**  
 SCALE: 3" = 1'-0"

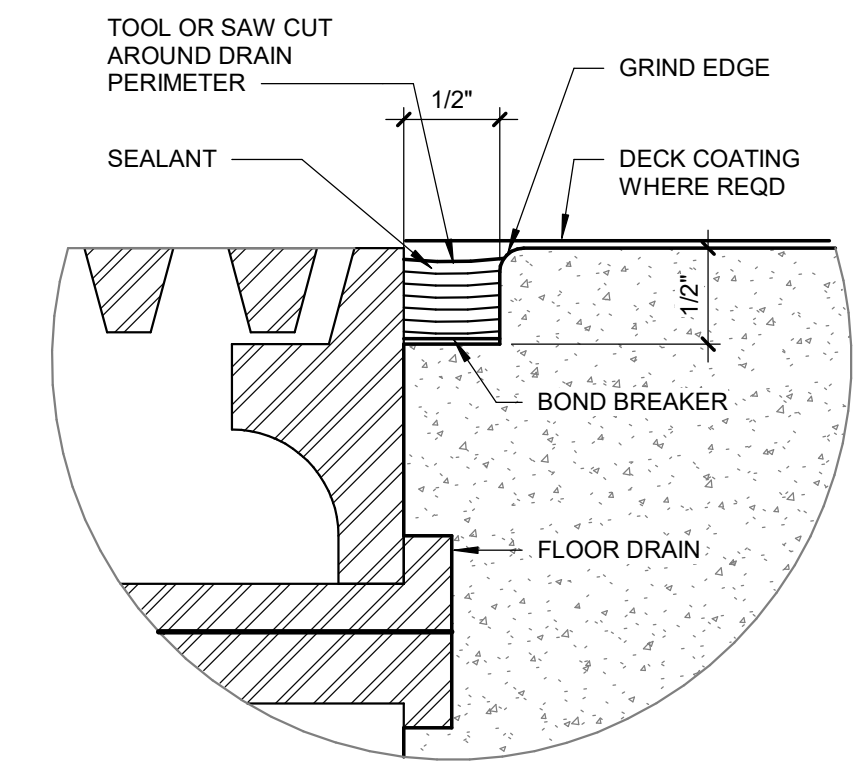


**3 W.W.F. SPLICE DETAIL**  
 SCALE: 3" = 1'-0"

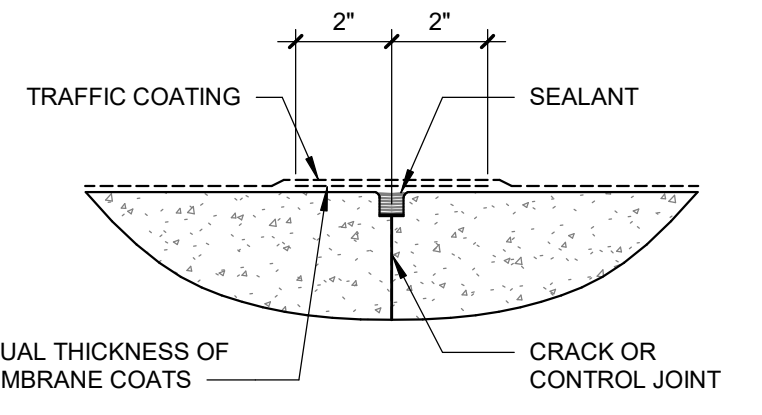


**4 PCC TOPPING REPAIR**  
 SCALE: 3" = 1'-0"

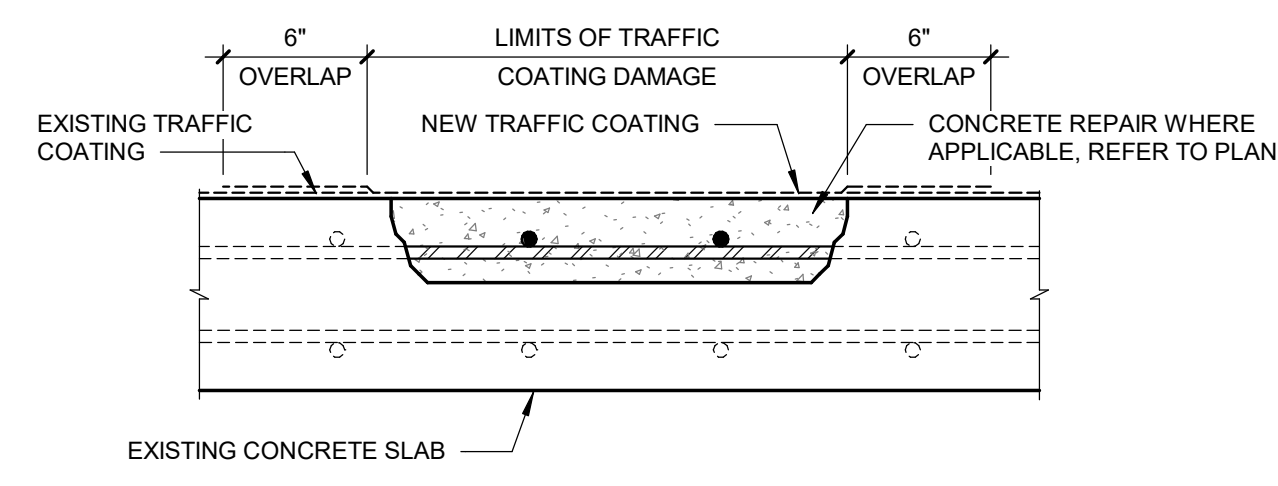
NOTES:  
 1. ANY DAMAGE TO EXISTING WELD CONNECTION CAUSED BY CONCRETE REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.  
 2. NOTIFY ENGINEER IF WELD CONNECTION IS DAMAGED OR HAS FAILED.  
 3. PROVIDE SHORING ALONG PCC TEE FLANGE PRIOR TO DEMOLITION.  
 4. IF EXISTING WWF IS DAMAGED, REMOVE AND SPLICE WITH EPOXY COATED 6 x 6 - W2.9 x W2.9 WWF. REFER TO DTL 3/SR501.  
 5. ABRASIVE BLAST AND COAT ALL EXPOSED STEEL.



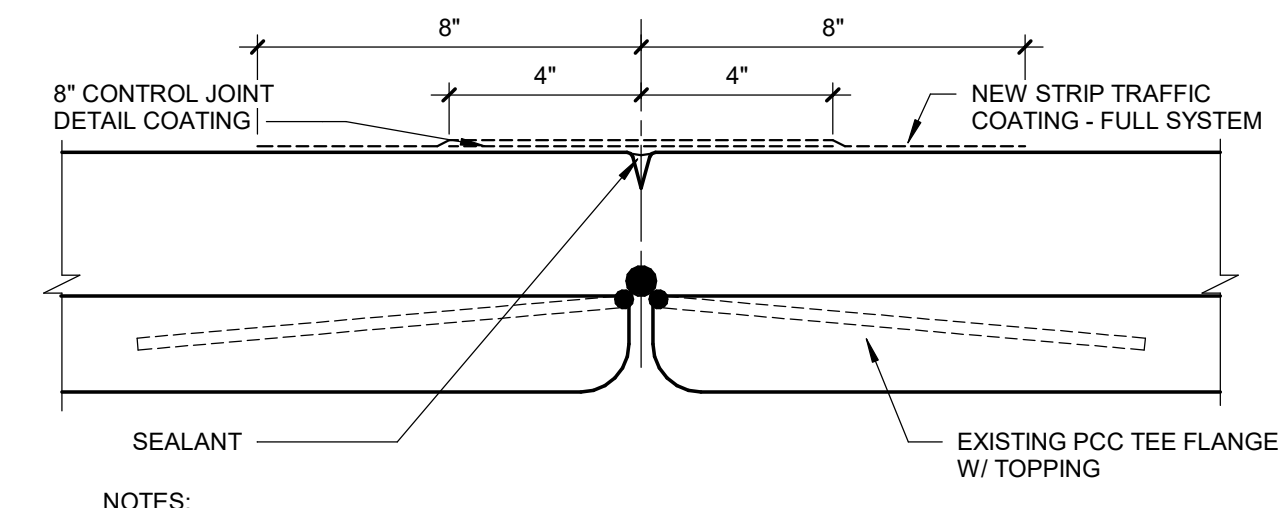
**14 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



**10 TRAFFIC COATING DETAIL**  
SCALE: 3" = 1'-0"

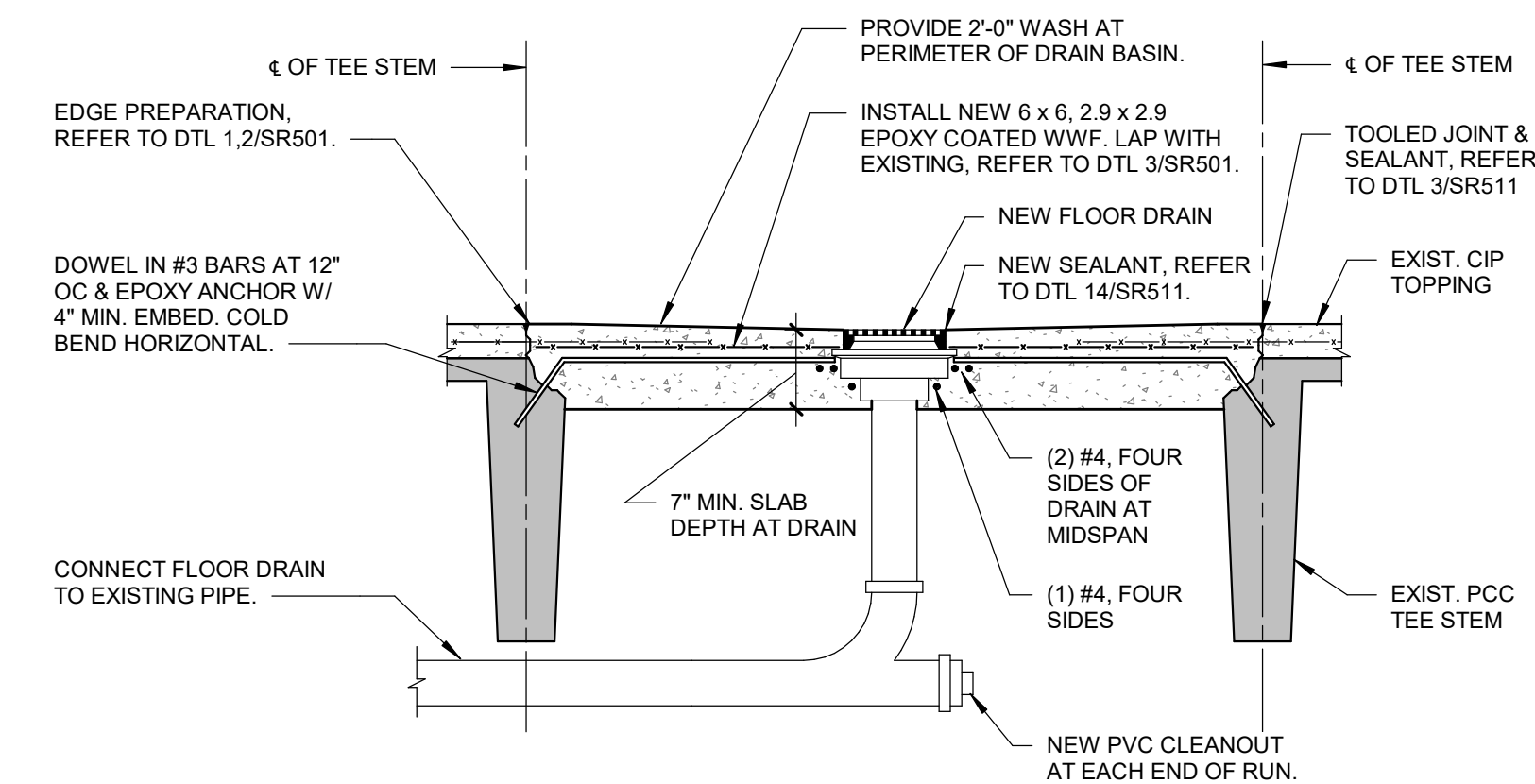


**11 TRAFFIC COATING DETAIL**  
SCALE: 1 1/2" = 1'-0"

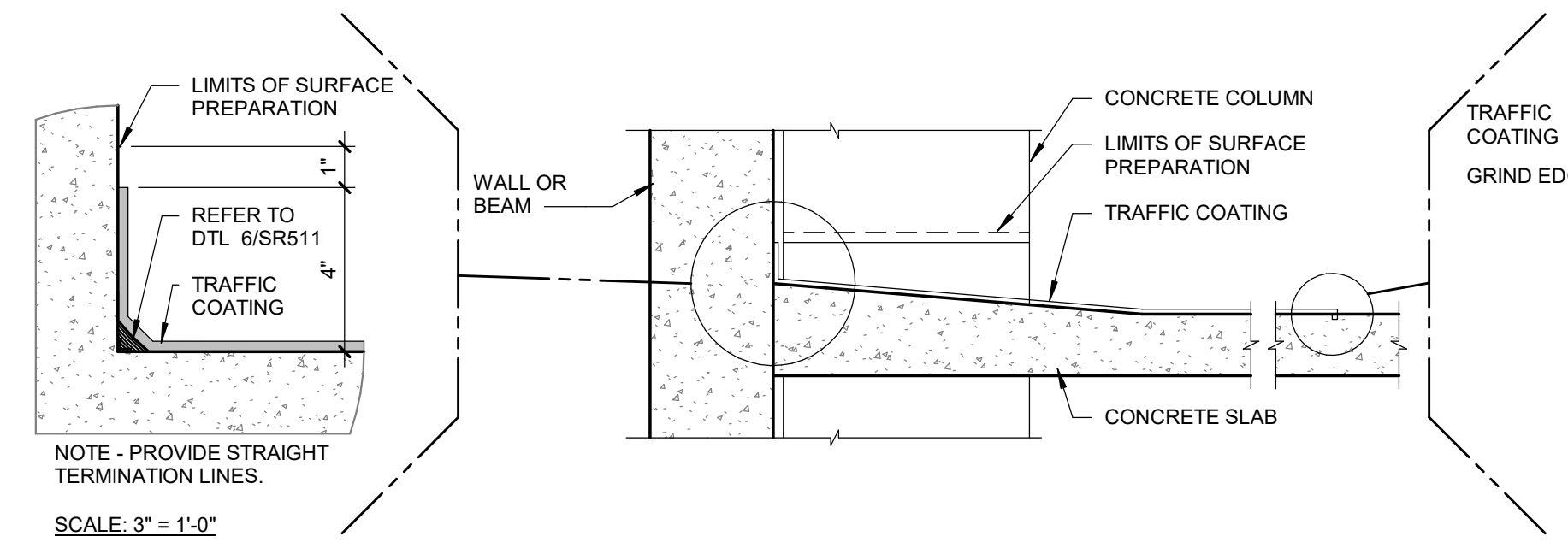


**12 TRAFFIC COATING - STRIP COATING DETAIL**  
SCALE: 3" = 1'-0"

- NOTES:
1. REMOVE EXISTING TRAFFIC COATING THAT IS DAMAGED OR DEBONDED.
  2. VERIFY IF JOINT IS LEAKING PRIOR TO INSTALLING NEW TRAFFIC COATING. REMOVE AND REPLACE JOINT SEALANT AS DIRECTED BY ENGINEER.

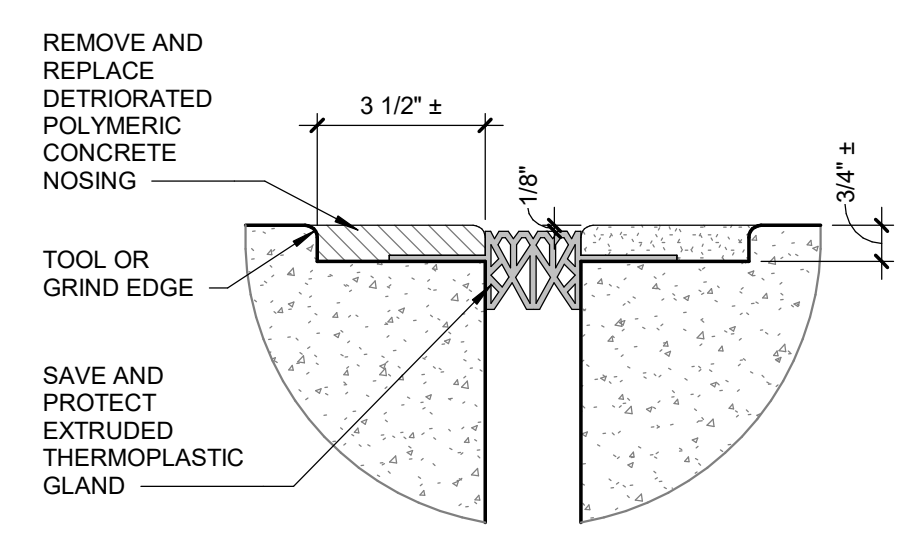


**13 FLOOR DRAIN DETAIL**  
SCALE: 3/4" = 1'-0"

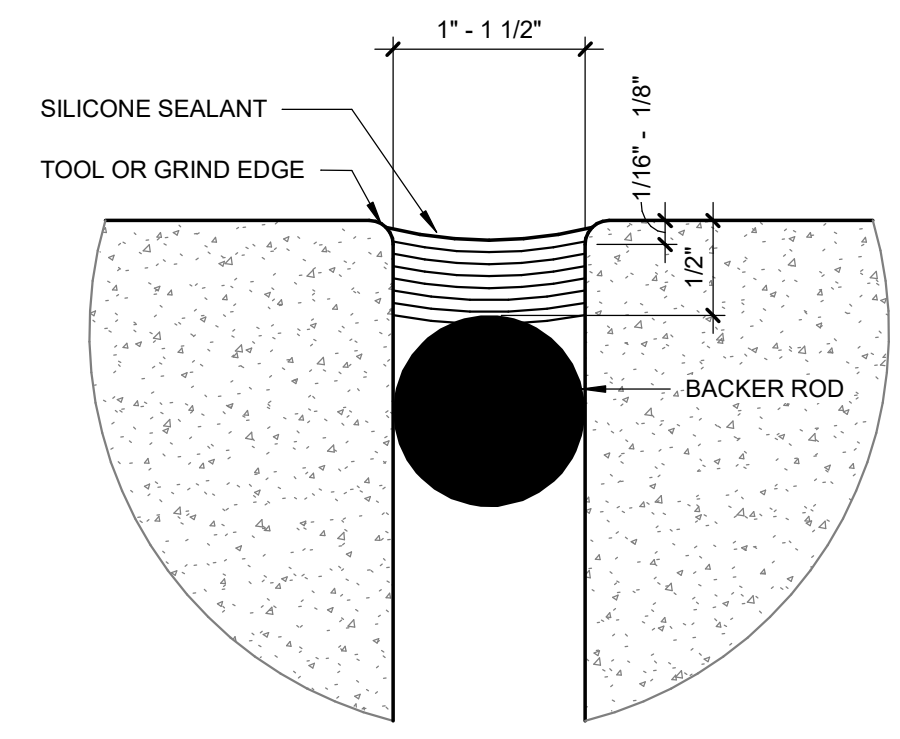


**9 TRAFFIC COATING DETAIL**  
SCALE: 3" = 1'-0"

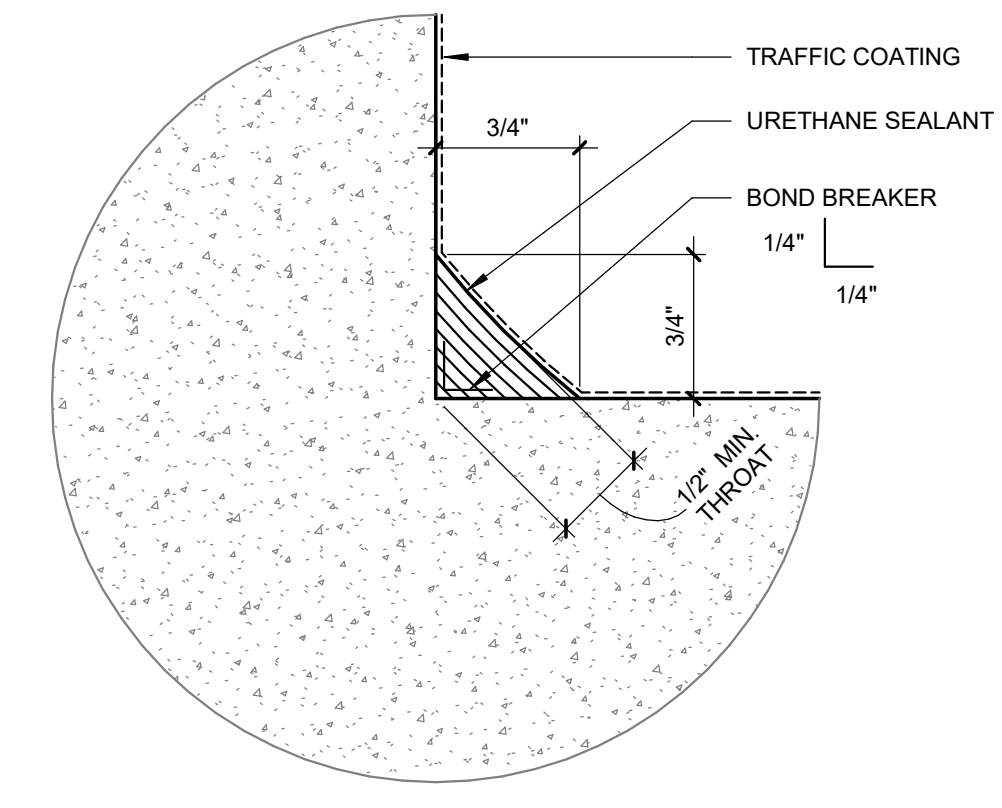
NOTE - PROVIDE STRAIGHT TERMINATION LINES.



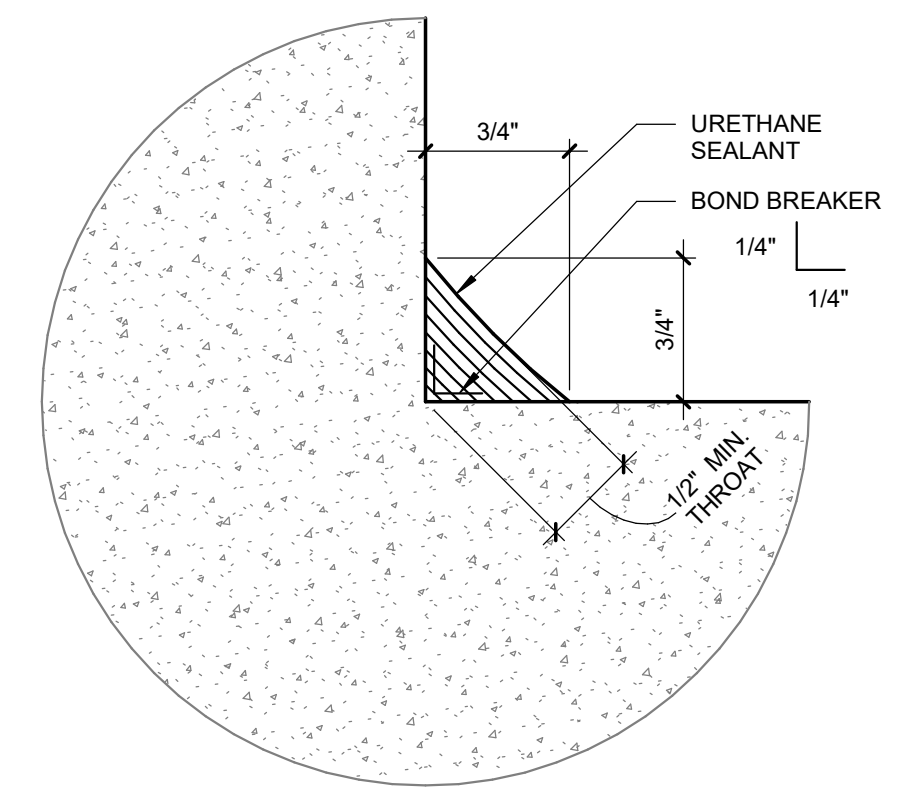
**8 EXP. JOINT NOSING REPAIR**  
SCALE: 3" = 1'-0"



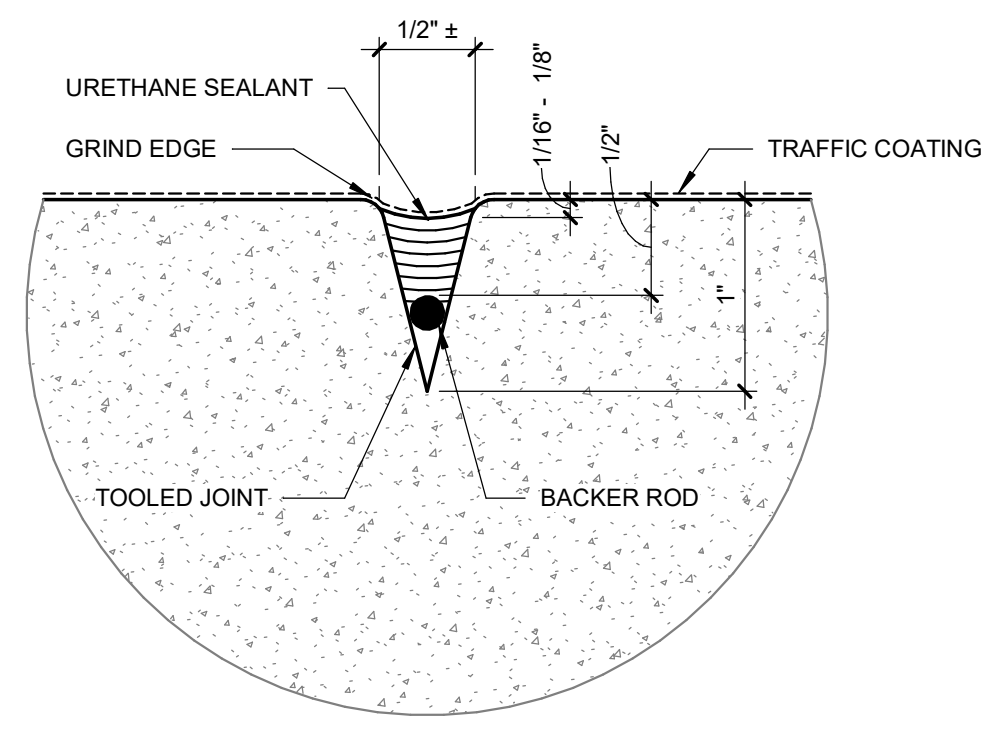
**7 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



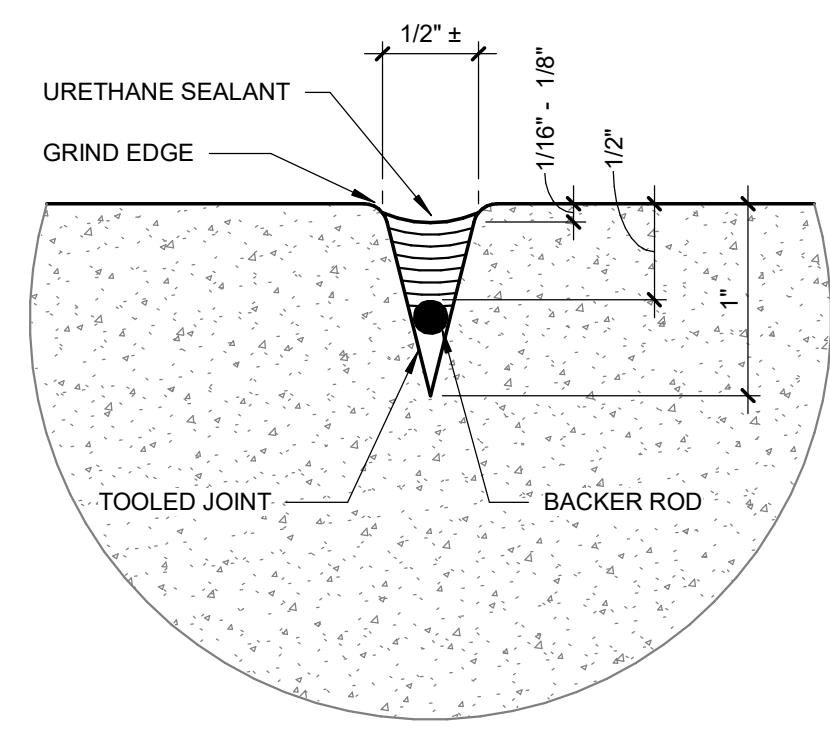
**6 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



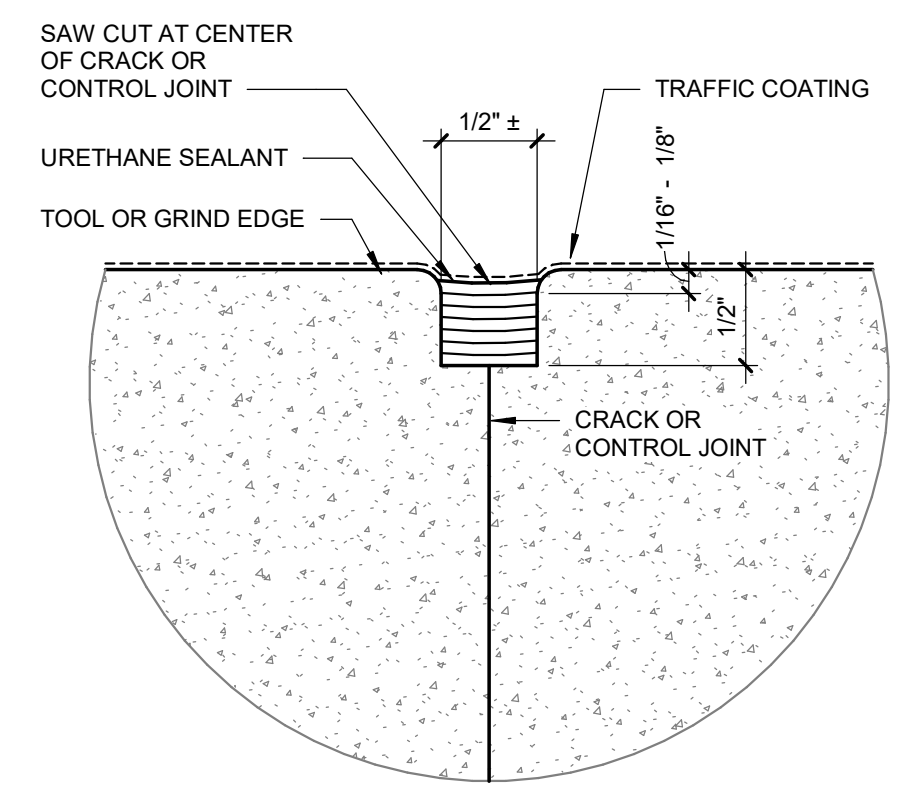
**5 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



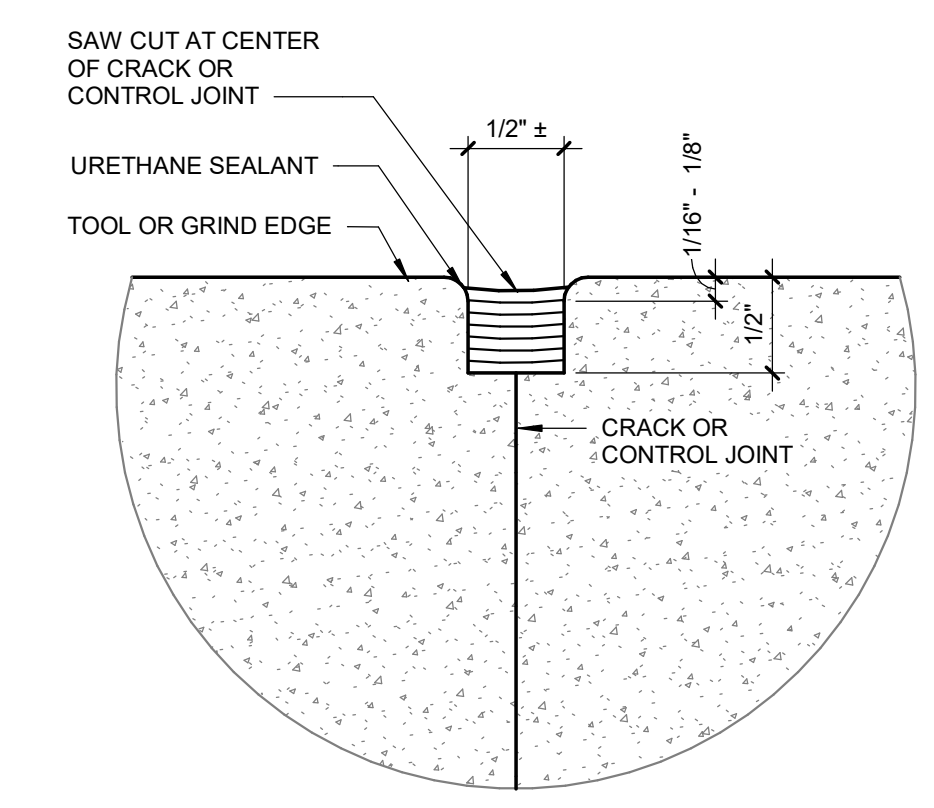
**4 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



**3 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



**2 SEALANT DETAIL**  
SCALE: 12" = 1'-0"



**1 SEALANT DETAIL**  
SCALE: 12" = 1'-0"