

# HINSON GARAGE 2022 RESTORATION

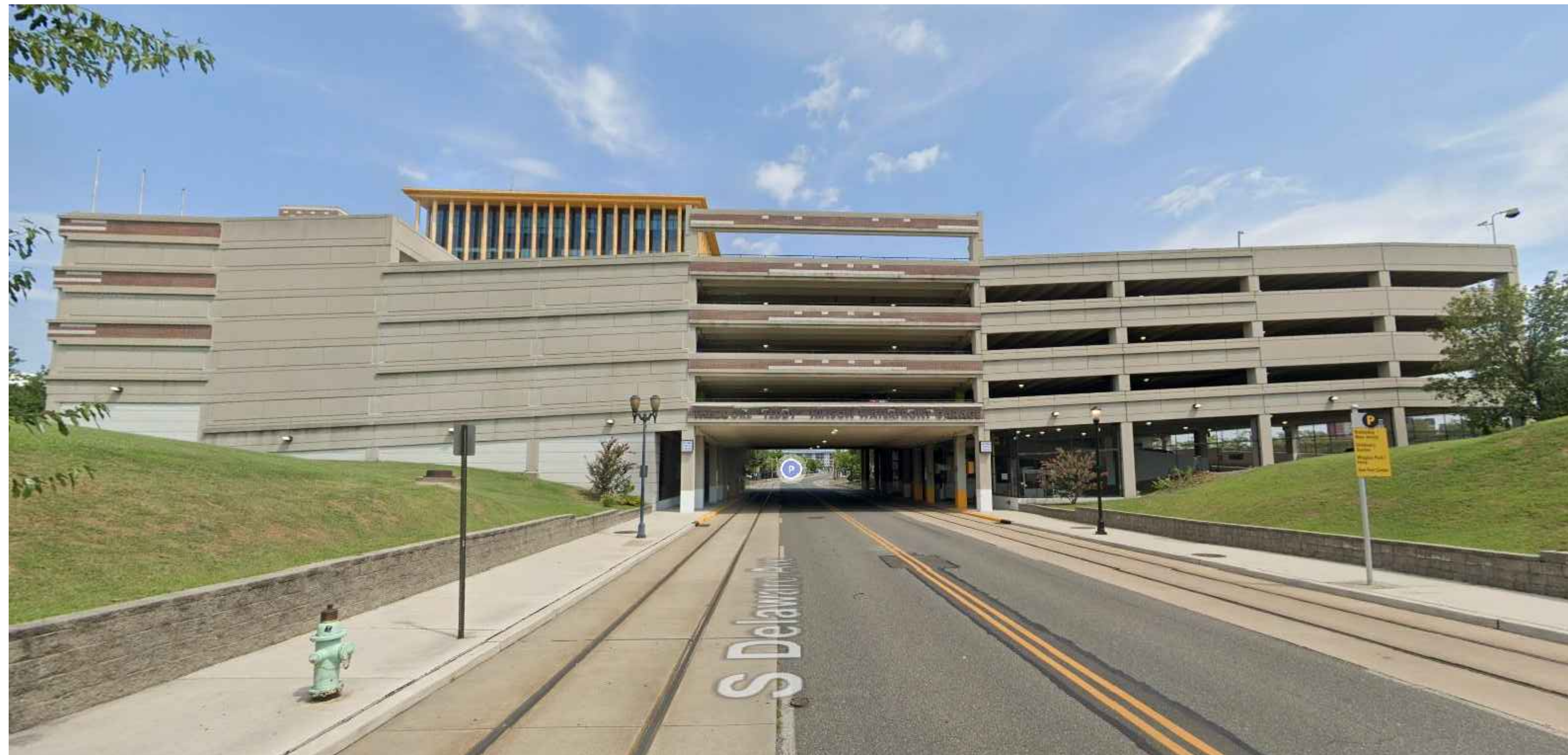
## Camden, NJ

Owner :  
**Parking Authority of the City of Camden**

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Location Map



### DRAWING INDEX

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ISSUE FOR BID - ADDENDUM #1  
 MAY 6, 2022



**SCOPE OF WORK AND BIDDING QUANTITIES**

THE FOLLOWING INFORMATION SHALL BE USED BY THE BIDDER FOR ASSISTANCE IN PREPARING THE BID. THE ITEMS NOTED AS UNIT PRICE WORK SHALL BE BID IN ACCORDANCE WITH THE QUANTITIES SHOWN FOR THE BASE BID. THE CONTRACT PRICE WILL BE ADJUSTED TO REFLECT THE ACTUAL QUANTITY OF WORK PERFORMED. THE UNIT PRICES WILL BE USED TO INCREASE OR DECREASE THE CONTRACT SUM.

THE REPAIR AREAS INDICATED ON THE DRAWINGS ARE A GENERAL INDICATION OF WHERE THE ENGINEER'S SURVEYS HAVE NOTED POSSIBLE REPAIR LOCATIONS. THE CONTRACTOR SHALL NOT MAKE ANY ASSUMPTIONS OF REPAIR LOCATIONS, SIZES, OR OVERALL QUANTITIES BASED UPON THE INFORMATION ON PLANS. THE PROCEDURE FOR DETERMINING THE REPAIR LOCATIONS ARE EXPLAINED IN THE GENERAL NOTES AND SPECIFICATIONS. ALL WORK SHALL BE PERFORMED BASED ON THE GENERAL CONDITIONS SET FORTH IN THE PROJECT SPECIFICATIONS.

\* THE CONTINGENT REPAIR QUANTITIES ARE INCLUDED IN THE TOTAL BASE BID QUANTITY. THE EXACT LOCATION AND QUANTITIES OF REPAIRS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. CONTRACTOR SHALL ONLY ORDER 10% OF REQUIRED MATERIALS AT BEGINNING OF PROJECT ONCE SUBMITTAL HAS BEEN APPROVED BY ENGINEER. CONTRACTOR SHALL ORDER ADDITIONAL MATERIALS AFTER THEIR USE AND NECESSITY HAS BEEN IDENTIFIED DURING THE EARLY STAGES OF THE REPAIR WORK. CONTRACTOR TO INFORM THE ENGINEER/OWNER IF A LONG LEAD TIME IS EXPECTED ON THE MATERIAL ORDERS.

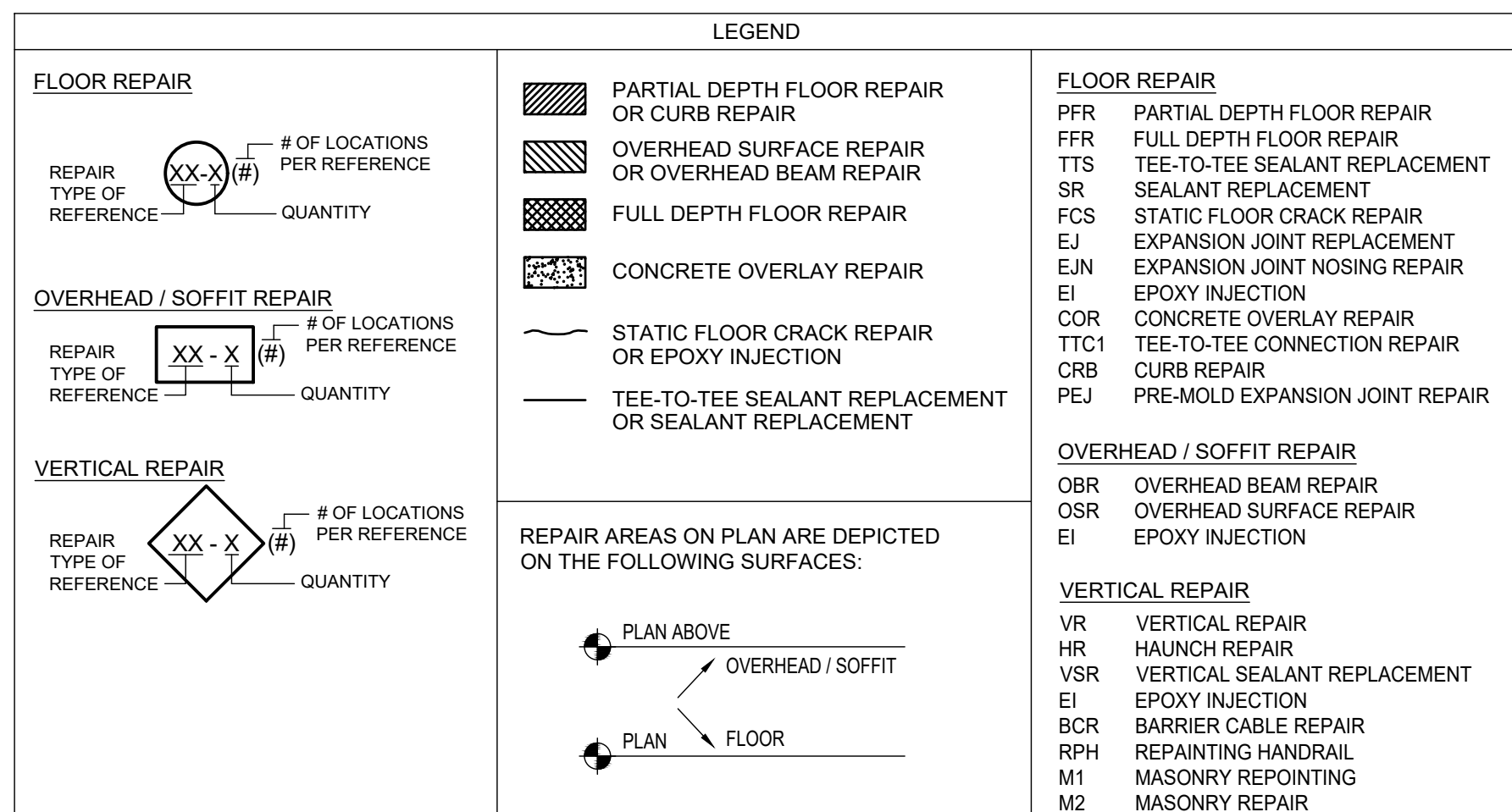
**ABBREVIATIONS:**

A.B.	ANCHOR BOLTS	H.A.S.	HEADED ANCHOR STUDS
A.F.F.	ABOVE FINISHED FLOOR	H.M.	HOLLOW METAL
ALT.	ALTERNATE	HOR.	HORIZONTAL
ARCH.	ARCHITECT	HT.	HEIGHT
BET.	BETWEEN	H.V.A.C.	HEATING, VENTILATION & AIR CONDITIONING
BIT.	BITUMINOUS	I.D.	INSIDE DIAMETER
BOTT.	BOTTOM	INFO.	INFORMATION
BRG.	BEARING	INSUL.	INSULATION
C.I.P.	CAST-IN-PLACE	INT.	INTERIOR
C.J.	CONTROL JOINT/ CONSTRUCTION JOINT	INV.	INVERT
CL./CLR.	CLEAR	JT.	JOINT
C.M.	CONSTRUCTION MANAGER	LBS.	POUNDS
C.M.U.	CONCRETE MASONRY UNIT	LIN.	LINEAL
COL.	COLUMN	MAX.	MAXIMUM
CONC.	CONCRETE	MECH.	MECHANICAL
CONN.	CONNECTION	MFR.	MANUFACTURER
CONT.	CONTINUOUS	MIN.	MINIMUM
CONTR.	CONTRACTOR	MISC.	MISCELLANEOUS
D.B.A.	DEFORMED BAR ANCHOR	MSB	MEDIUM SAND BLAST
DET.	DETAIL	MTL.	METAL
DIA.	DIAMETER	(N)	NEW
DIM.	DIMENSION	N.F.	NEAR FACE
DN.	DOWN	N.I.C.	NOT IN CONTRACT
DWG(S).	DRAWING(S)	N.S.N.S.	NON-SHRINK, NON-STAIN
(E)	EXISTING	N.T.S.	NOT TO SCALE
EA.	EACH	O.C., O/C	ON CENTERS
E.B.F.	ELEVATION BOTTOM OF FOOTING	O.D.	OUTSIDE DIAMETER
E.B.P.	ELEVATION BOTTOM OF PIER	O.H.	OPPOSITE HAND
E.F.	EACH FACE	P/C	PRECAST CONCRETE
E.F.G.	ELEVATION FINISHED GRADE	PSI	POUNDS PER SQUARE INCH
E.J.	EXPANSION JOINT	PSF	POUNDS PER SQUARE FOOT
EL./ELEV.	ELEVATION	P/T	POST-TENSIONED
ELEC.	ELECTRICAL	R.D.	ROOF DRAIN
E.T.B.	ELEVATION TOP OF BEAM	REINF.	REINFORCEMENT/REINFORCING
E.T.C.	ELEVATION TOP OF PILE OR DRILLED PIER CAP	REQ'D	REQUIRED
E.T.F.	ELEVATION TOP OF FOOTING	RM	ROOM
E.T.L.	ELEVATION TOP OF LEDGE	R.O.	ROUGH OPENING
E.T.P.	ELEVATION TOP OF PIER	SCHED.	SCHEDULE
E.T.P./C.	ELEVATION TOP OF PRECAST	SECT.	SECTION
E.T.S.	ELEVATION TOP OF SLAB	SHT.	SHEET
E.T.W.	ELEVATION TOP OF WALL	SIM.	SIMILAR
E.W.	EACH WAY	S.O.G.	SLAB-ON-GRADE
E.W.E.F.	EACH WAY, EACH FACE	SPECS.	SPECIFICATIONS
E.W.P.	ELEVATION WORKING POINT	SQ.	SQUARE
EXT.	EXTERIOR	STD.	STANDARD
F.D.	FLOOR DRAIN	STL.	STEEL
F.E.	FIRE EXTINGUISHER	T & B	TOP AND BOTTOM
F.F.	FAR FACE	T.B.D.	TO BE DETERMINED
FDN.	FOUNDATION	TYP.	TYPICAL
FIN.	FINISH	U.N.	UNLESS NOTED
FL./FLR.	FLOOR	VERT.	VERTICAL
FTG.	FOOTING	V.I.F.	VERIFY IN FIELD
GA.	GAUGE	W/	WITH
GAL.V.	GALVANIZED	W/O	WITHOUT
G.B.	GRADE BEAM	W.P.	WORKING POINT
G.C.	GENERAL CONTRACTOR	WT.	WEIGHT
GR.	GRADE	WWF	WELDED WIRE FABRIC
G.W.B.	GYPSON WALL BOARD	WWR	WELDED WIRE REINFORCEMENT
GPR	GROUND PENETRATION RADAR		

REPAIR ITEMS	UNIT OF MEASURE	BASE BID QUANTITIES	REPAIR REFERENCE	UNIT PRICE NUMBER	
<b>COR</b>	CONCRETE OVERLAY REPAIR	SF	72	1/R2.1	1
<b>PFR</b>	PARTIAL DEPTH FLOOR REPAIR	SF	62	2/R2.1	2
<b>FFR</b>	FULL DEPTH FLOOR REPAIR	SF	2	3/R2.1	3
<b>CRB</b>	CURB REPAIR	SF	1	4/R2.1	4
<b>OSR</b>	OVERHEAD SURFACE REPAIR	SF	114	5/R2.1	5
<b>OBR1</b>	OVERHEAD BEAM REPAIR (TYPE 1)	SF	10	6/R2.1	6A
<b>OBR2</b>	OVERHEAD BEAM REPAIR (TYPE 2)	SF	28	6/R2.1	6B
<b>VR</b>	VERTICAL REPAIR	SF	24	7/R2.1	7
<b>HR</b>	HAUNCH REPAIR	EA	1	8/R2.1	8
<b>HRG</b>	HAUNCH REPAIR AT GIRDER	EA	2	8/R2.1	9
<b>EI</b>	EPOXY INJECTION	LF	211	9/R2.1	10A
<b>EIH</b>	EPOXY INJECTION - HAIRLINE CRACKS	LF	0	9/R2.1	10B
<b>TTS</b>	TEE-TO-TEE SEALANT REPLACEMENT	LF	9719	1/R2.2	11
<b>FCS</b>	STATIC FLOOR CRACK REPAIR	SF	292	2/R2.2	12
<b>TTC1</b>	TEE-TO-TEE CONNECTION REPAIR (PRETOPPED TEE)	EA	54	3/R2.2	13A
<b>TTC2</b>	TEE-TO-TEE CONNECTION REPAIR (PRETOPPED TEE)	EA	0	3/R2.2	13B
<b>TTC3</b>	TEE-TO-TEE CONNECTION REPAIR (PRETOPPED TEE)	EA	0	3/R2.2	13C
<b>TTC4</b>	TEE-TO-TEE CONNECTION REPAIR (PRETOPPED TEE)	EA	0	3/R2.2	13D
<b>SR</b>	SEALANT REPLACEMENT	LF	5197	4/R2.2	14
<b>VSR</b>	VERTICAL SEALANT REPLACEMENT	LF	434	4/R2.2	15
<b>EJ</b>	EXPANSION JOINT REPLACEMENT	LF	6	5/R2.2	16
<b>EJN</b>	EXPANSION JOINT NOSING REPAIR	LF	18	5/R2.2	17
<b>PEJ</b>	PRE-MOLD EXPANSION JOINT REPLACEMENT	LF	25	6/R2.2	18
<b>BCR</b>	BARRIER CABLE REPAIR	LF	240	7/R2.2	19
<b>SRR</b>	STAIR RAILING REPLACEMENT	EA	1	1/R2.3	20
<b>M1</b>	MASONRY REPOINTING	LF	6	NOTE P/R0.1	21
<b>M2</b>	MASONRY REPAIR	SF	0	NOTE P/R0.1	22
<b>GA</b>	GALVANIC ANODES	EA	20	NOTE H/R0.1	23
<b>LSW</b>	LUMP SUM WORK ITEMS	LS	1	R0.2 NOTES	24
<b>GRR</b>	GUARDRAIL REPAIR	EA	1	2/R2.3	25

**LUMP SUM WORK ITEMS:**

- GENERAL CONDITIONS (REFER TO PROJECT SPECIFICATIONS)
- PLUMBING SYSTEM CLEAN-UP PER GENERAL NOTE N/R0.1
- APPLICATION OF TRAFFIC MARKINGS (STRIPING AND TRAFFIC ARROWS) WITHIN REPAIR AREAS.
- REPLACE MISSING FIRE EXTINGUISHER AT ELEVEN (11) LOCATIONS.
- REPLACE 6 LF OF CORRODED CONDUIT TO MATCH EXISTING. SEE LOCATION ON THIRD TIER PLAN.
- REPLACE STAIR NOSING TO MATCH EXISTING AT TWO (2) LOCATIONS. SEE LOCATION ON FIFTH TIER PLAN.
- ALL OTHER MISCELLANEOUS ITEMS SPECIFIED IN PROJECT SPECIFICATIONS, GENERAL NOTES SHEET R0.1, AND ALL REPAIR DETAILS.
- ALL COSTS ASSOCIATED WITH NJT TEMPORARY ACCESS PERMIT PER SPECIFICATION 000012 FOR WORK ADJACENT NJ TRANSIT LIGHT RAIL, INCLUDING FLAGGING PROTECTION AND OTHER SERVICES.



CONSULTANT

PROJECT NO:  
NBR22110.00

PROJECT

# HINSON GARAGE 2022 RESTORATION

Camden, NJ

SUBMISSIONS / REVISIONS

ISSUE FOR BID  
04/22/2022

NO.	DESCRIPTION	DATE
△	ADDENDUM #1	05/06/2022

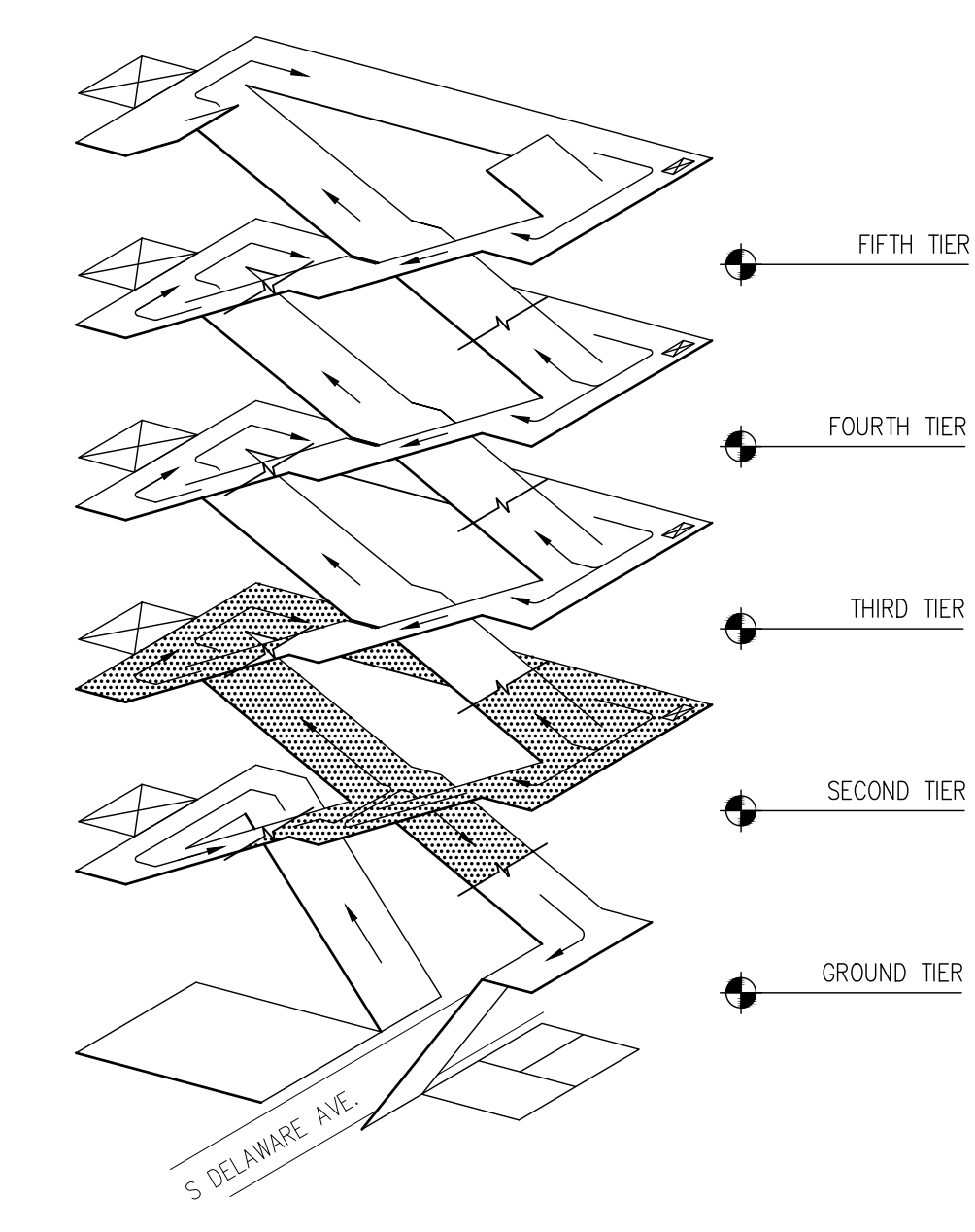
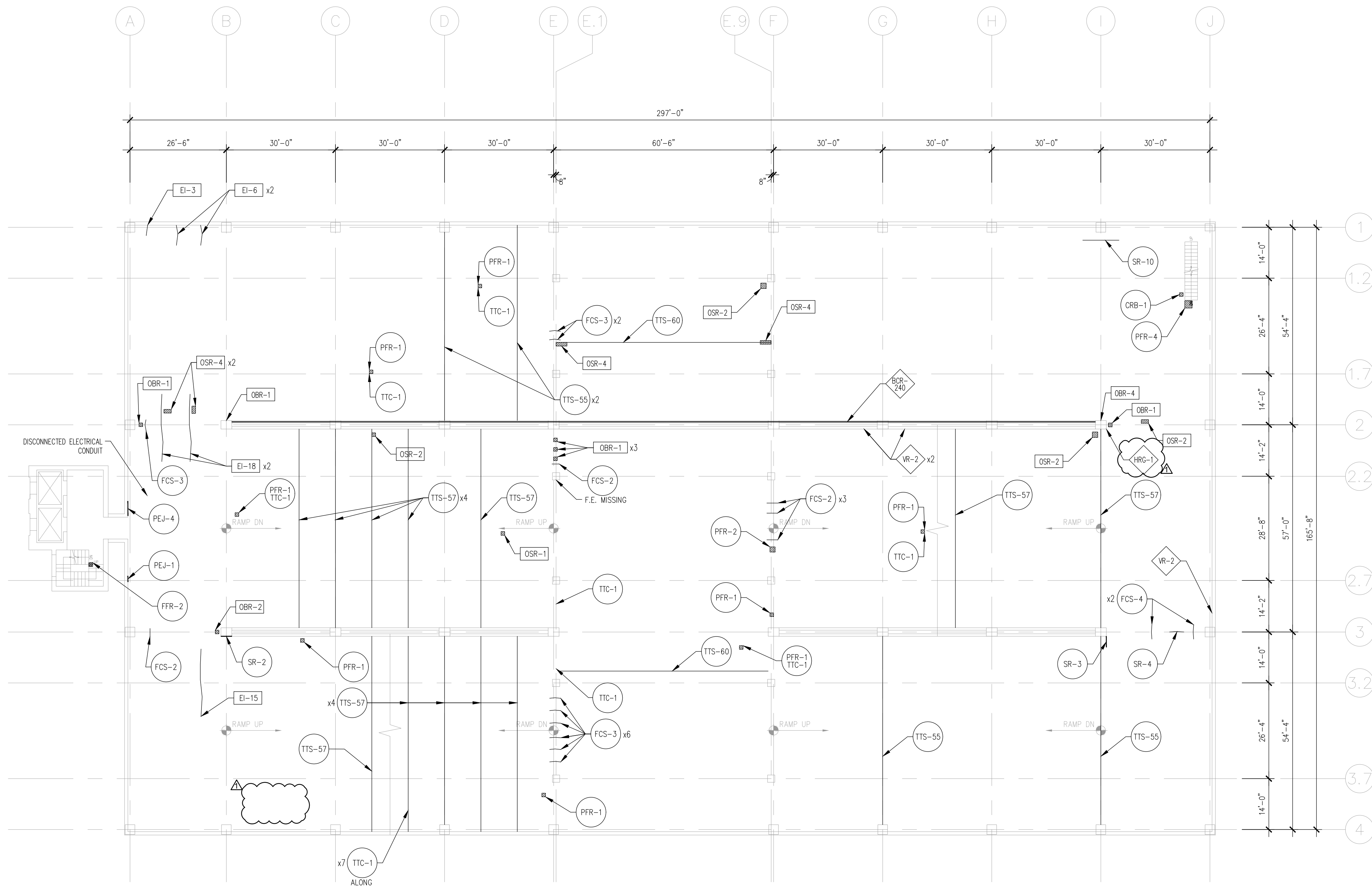
DRAWN: BJ  
REVIEWED: JCR  
DATE: 04/22/2022

SHEET TITLE:  
SCOPE OF WORK

SHEET NO.

# R0.2





ISOMETRIC

CONSULTANT

PROJECT NO:  
NBR22110.00  
PROJECT

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Camden, NJ

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ISSUE FOR BID  
04/22/2022

NO.	DESCRIPTION	DATE
△	ADDENDUM #1	05/06/2022

**1** SECOND TIER RESTORATION PLAN  
R1.2 SCALE: 1/16" = 1' - 0"

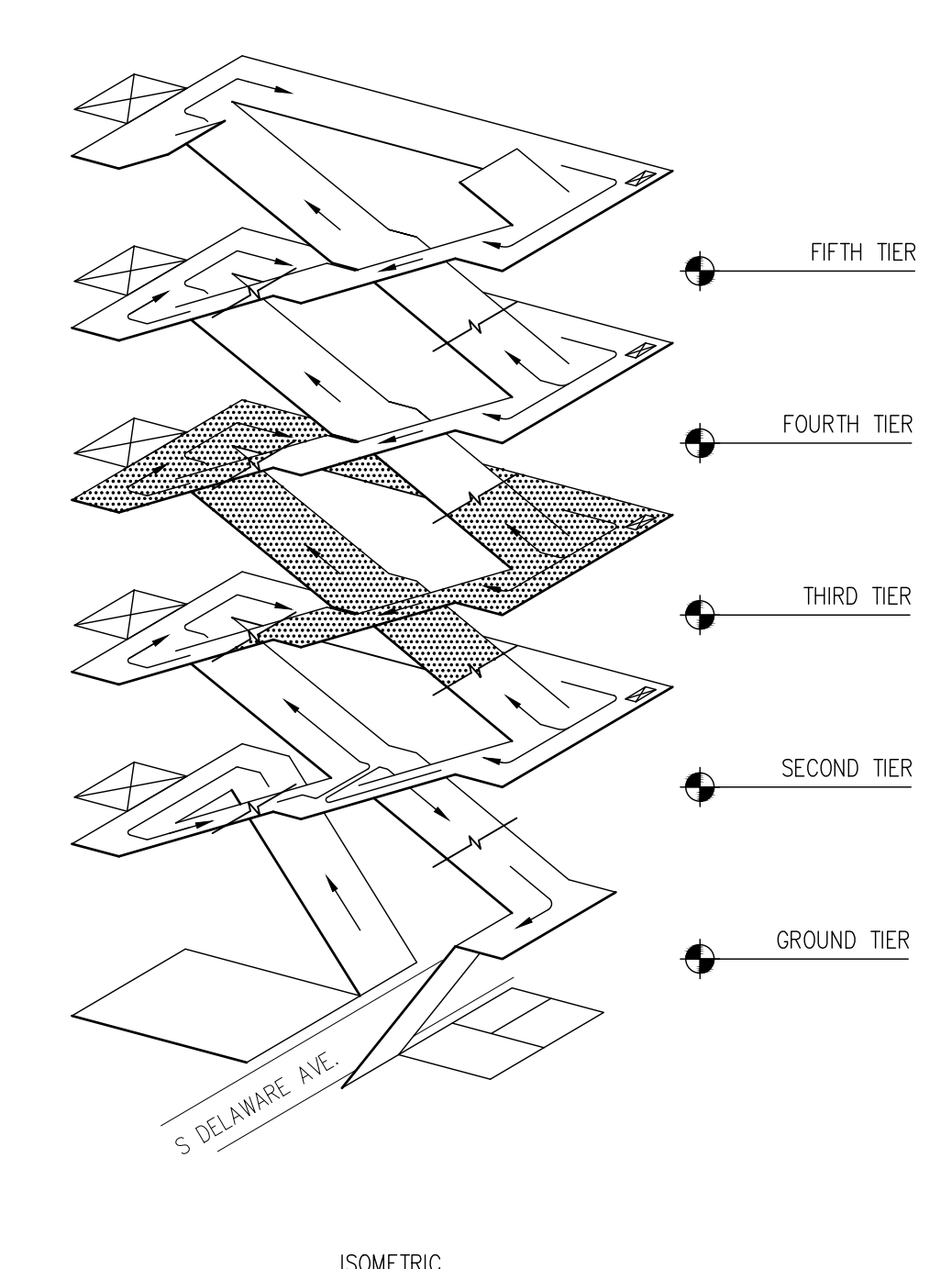
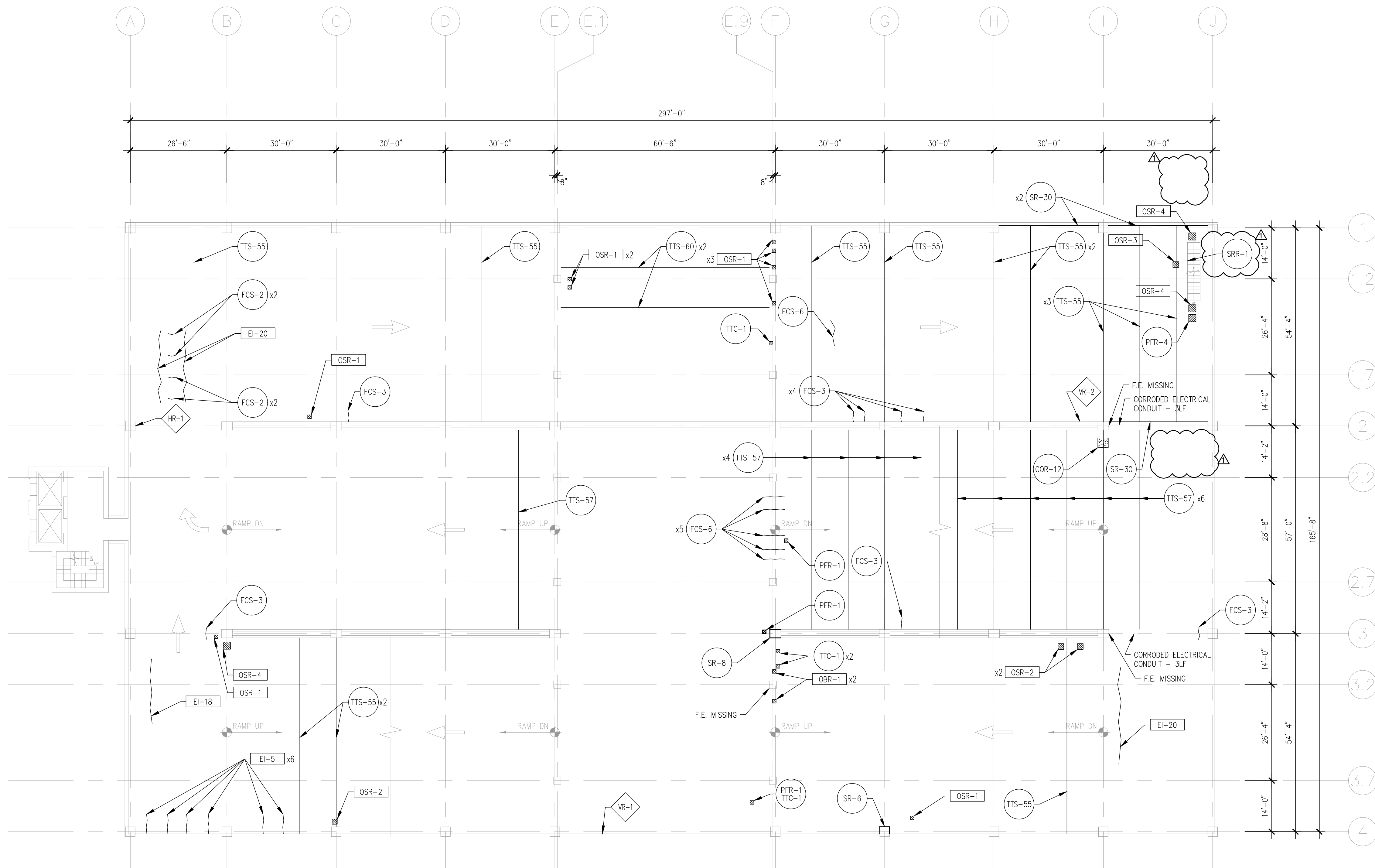
LEGEND		
<b>FLOOR REPAIR</b>	PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR	<b>FLOOR REPAIR</b>
OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR	FULL DEPTH FLOOR REPAIR	FFR FULL DEPTH FLOOR REPAIR
CONCRETE OVERLAY REPAIR	STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION	TTS TEE-TO-TEE SEALANT REPLACEMENT
TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT		SR SEALANT REPLACEMENT
<b>OVERHEAD / SOFFIT REPAIR</b>		FCS STATIC FLOOR CRACK REPAIR
REPAIR TYPE OF REFERENCE QUANTITY		EJ EXPANSION JOINT REPLACEMENT
		EJN EXPANSION JOINT NOSING REPAIR
		EI EPOXY INJECTION
		COR CONCRETE OVERLAY REPAIR
		TTC1 TEE-TO-TEE CONNECTION REPAIR
		CRB CURB REPAIR
		PEJ PRE-MOLD EXPANSION JOINT REPAIR
<b>VERTICAL REPAIR</b>		<b>OVERHEAD / SOFFIT REPAIR</b>
REPAIR TYPE OF REFERENCE QUANTITY		OBR OVERHEAD BEAM REPAIR
		OSR OVERHEAD SURFACE REPAIR
		EI EPOXY INJECTION
		<b>VERTICAL REPAIR</b>
		VR VERTICAL REPAIR
		HR HANDRAIL REPAIR
		VSR VERTICAL SEALANT REPLACEMENT
		EI EPOXY INJECTION
		BCR BARRIER CABLE REPAIR
		RPH REPAINTING HANDRAIL
		M1 MASONRY REPOINTING
		M2 MASONRY REPAIR

DRAWN: BJ  
REVIEWED: JCR  
DATE: 04/22/2022

SHEET TITLE:  
SECOND TIER RESTORATION PLAN

SHEET NO.

# R1.2



FIFTH TIER  
FOURTH TIER  
THIRD TIER  
SECOND TIER  
GROUND TIER

CONSULTANT

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Camden, NJ

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**1** THIRD TIER RESTORATION PLAN  
R1.3 SCALE: 1/16" = 1' - 0"

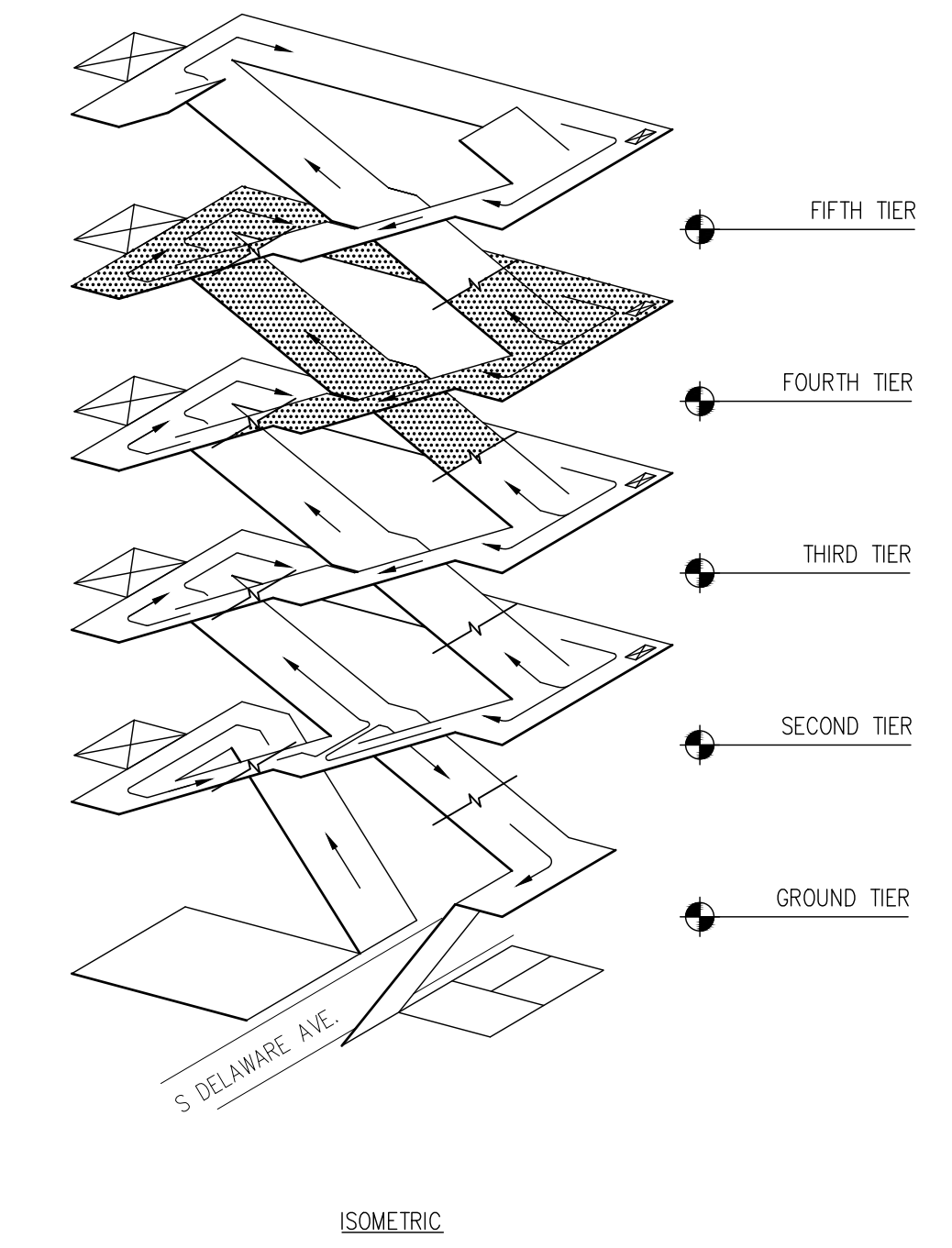
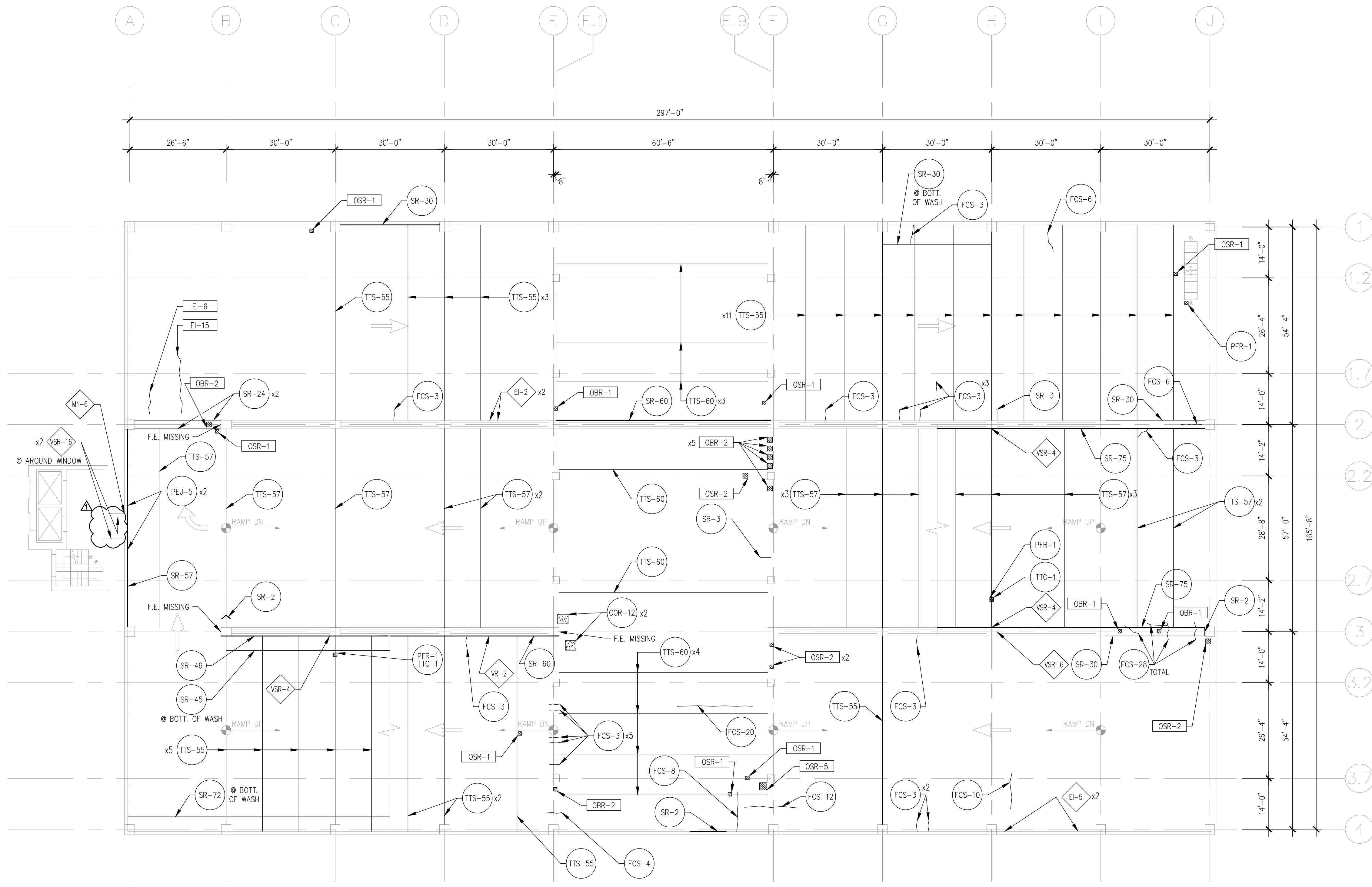
LEGEND		
<p><b>FLOOR REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE: <math>\text{XX-X} \begin{matrix} \text{#} \\ \text{QTY} \end{matrix}</math></p> <p><b>OVERHEAD / SOFFIT REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE: <math>\text{XX-X} \begin{matrix} \text{#} \\ \text{QTY} \end{matrix}</math></p> <p><b>VERTICAL REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE: <math>\text{XX-X} \begin{matrix} \text{#} \\ \text{QTY} \end{matrix}</math></p>	<p>PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR</p> <p>OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR</p> <p>FULL DEPTH FLOOR REPAIR</p> <p>CONCRETE OVERLAY REPAIR</p> <p>STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION</p> <p>TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT</p>	<p><b>FLOOR REPAIR</b></p> <p>PFR PARTIAL DEPTH FLOOR REPAIR</p> <p>FFR FULL DEPTH FLOOR REPAIR</p> <p>TTS TEE-TO-TEE SEALANT REPLACEMENT</p> <p>SR SEALANT REPLACEMENT</p> <p>FCS STATIC FLOOR CRACK REPAIR</p> <p>EJ EXPANSION JOINT REPLACEMENT</p> <p>EJN EXPANSION JOINT NOSING REPAIR</p> <p>EI EPOXY INJECTION</p> <p>COR CONCRETE OVERLAY REPAIR</p> <p>TTC1 TEE-TO-TEE CONNECTION REPAIR</p> <p>CRB CURB REPAIR</p> <p>PEJ PRE-MOLD EXPANSION JOINT REPAIR</p> <p><b>OVERHEAD / SOFFIT REPAIR</b></p> <p>OBR OVERHEAD BEAM REPAIR</p> <p>OSR OVERHEAD SURFACE REPAIR</p> <p>EI EPOXY INJECTION</p> <p><b>VERTICAL REPAIR</b></p> <p>VR VERTICAL REPAIR</p> <p>HR HAUNCH REPAIR</p> <p>VSR VERTICAL SEALANT REPLACEMENT</p> <p>EI EPOXY INJECTION</p> <p>BCR BARRIER CABLE REPAIR</p> <p>RPH REPAINTING HANDRAIL</p> <p>M1 MASONRY REPOINTING</p> <p>M2 MASONRY REPAIR</p>
<p>REPAIR AREAS ON PLAN ARE DEPICTED ON THE FOLLOWING SURFACES:</p> <p>PLAN ABOVE OVERHEAD / SOFFIT</p> <p>PLAN FLOOR</p>		

DRAWN: BJ  
REVIEWED: JCR  
DATE: 04/22/2022

SHEET TITLE:  
THIRD TIER RESTORATION PLAN

SHEET NO.

# R1.3



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NBR22110.00  
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Camden, NJ

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**1** FOURTH TIER RESTORATION PLAN  
R1.4 SCALE: 1/16" = 1' - 0"

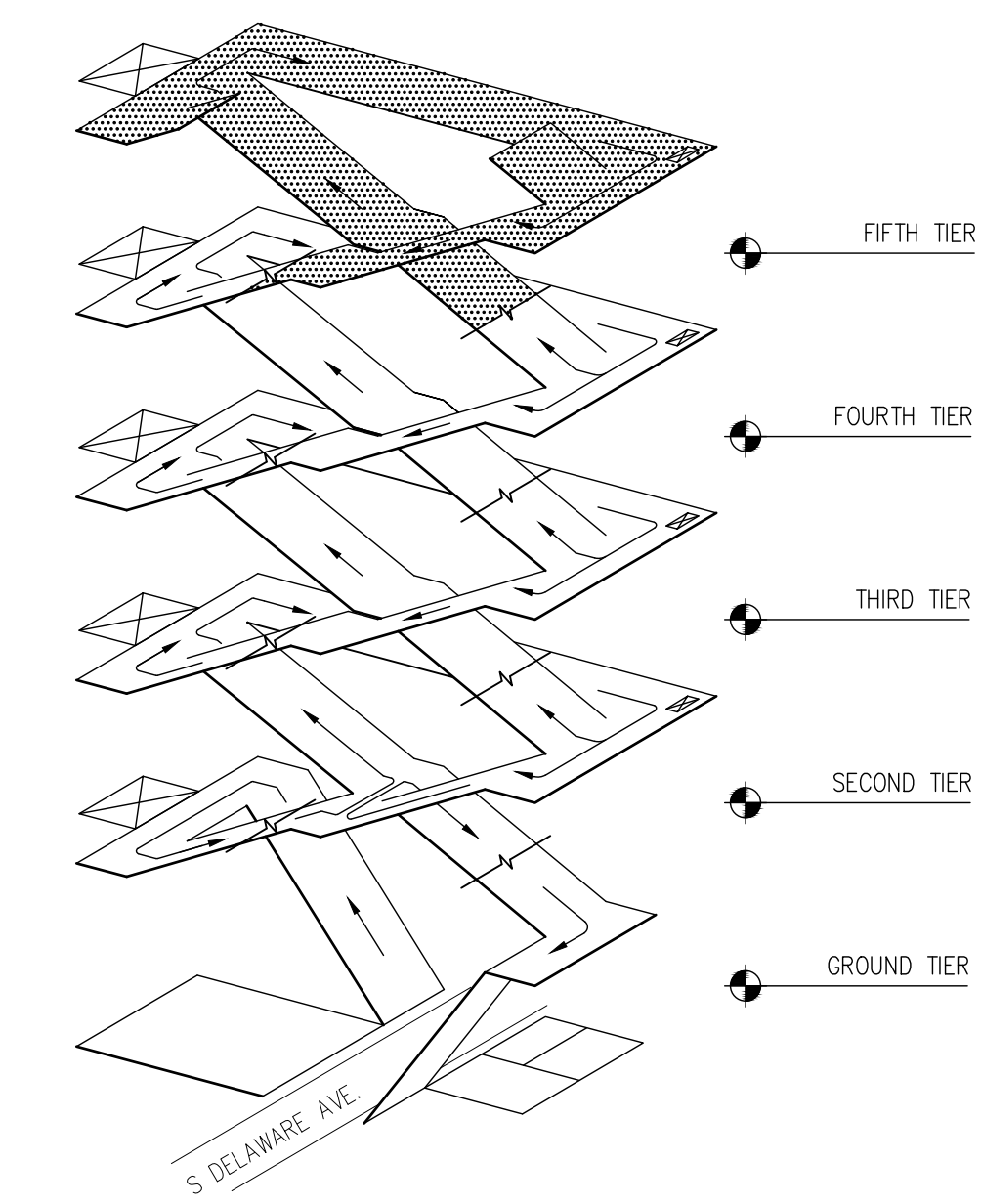
LEGEND		
<p><b>FLOOR REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE:  # QUANTITY</p> <p><b>OVERHEAD / SOFFIT REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE:  # QUANTITY</p> <p><b>VERTICAL REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE:  # QUANTITY</p>	<p> PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR</p> <p> OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR</p> <p> FULL DEPTH FLOOR REPAIR</p> <p> CONCRETE OVERLAY REPAIR</p> <p> STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION</p> <p> TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT</p>	<p><b>FLOOR REPAIR</b></p> <p>PFR PARTIAL DEPTH FLOOR REPAIR</p> <p>FFR FULL DEPTH FLOOR REPAIR</p> <p>TTS TEE-TO-TEE SEALANT REPLACEMENT</p> <p>SR SEALANT REPLACEMENT</p> <p>FCS STATIC FLOOR CRACK REPAIR</p> <p>EJ EXPANSION JOINT REPLACEMENT</p> <p>EJN EXPANSION JOINT NOSING REPAIR</p> <p>EI EPOXY INJECTION</p> <p>COR CONCRETE OVERLAY REPAIR</p> <p>TTC1 TEE-TO-TEE CONNECTION REPAIR</p> <p>CRB CURB REPAIR</p> <p>PEJ PRE-MOLD EXPANSION JOINT REPAIR</p>
<p>REPAIR AREAS ON PLAN ARE DEPICTED ON THE FOLLOWING SURFACES:</p> <p> PLAN ABOVE OVERHEAD / SOFFIT</p> <p> PLAN FLOOR</p>		
<p><b>OVERHEAD / SOFFIT REPAIR</b></p> <p>OBR OVERHEAD BEAM REPAIR</p> <p>OSR OVERHEAD SURFACE REPAIR</p> <p>EI EPOXY INJECTION</p>		
<p><b>VERTICAL REPAIR</b></p> <p>VR VERTICAL REPAIR</p> <p>HR HANDRAIL REPAIR</p> <p>VSR VERTICAL SEALANT REPLACEMENT</p> <p>EI EPOXY INJECTION</p> <p>BCR BARRIER CABLE REPAIR</p> <p>RPH REPAIRING HANDRAIL</p> <p>M1 MASONRY REPOINTING</p> <p>M2 MASONRY REPAIR</p>		

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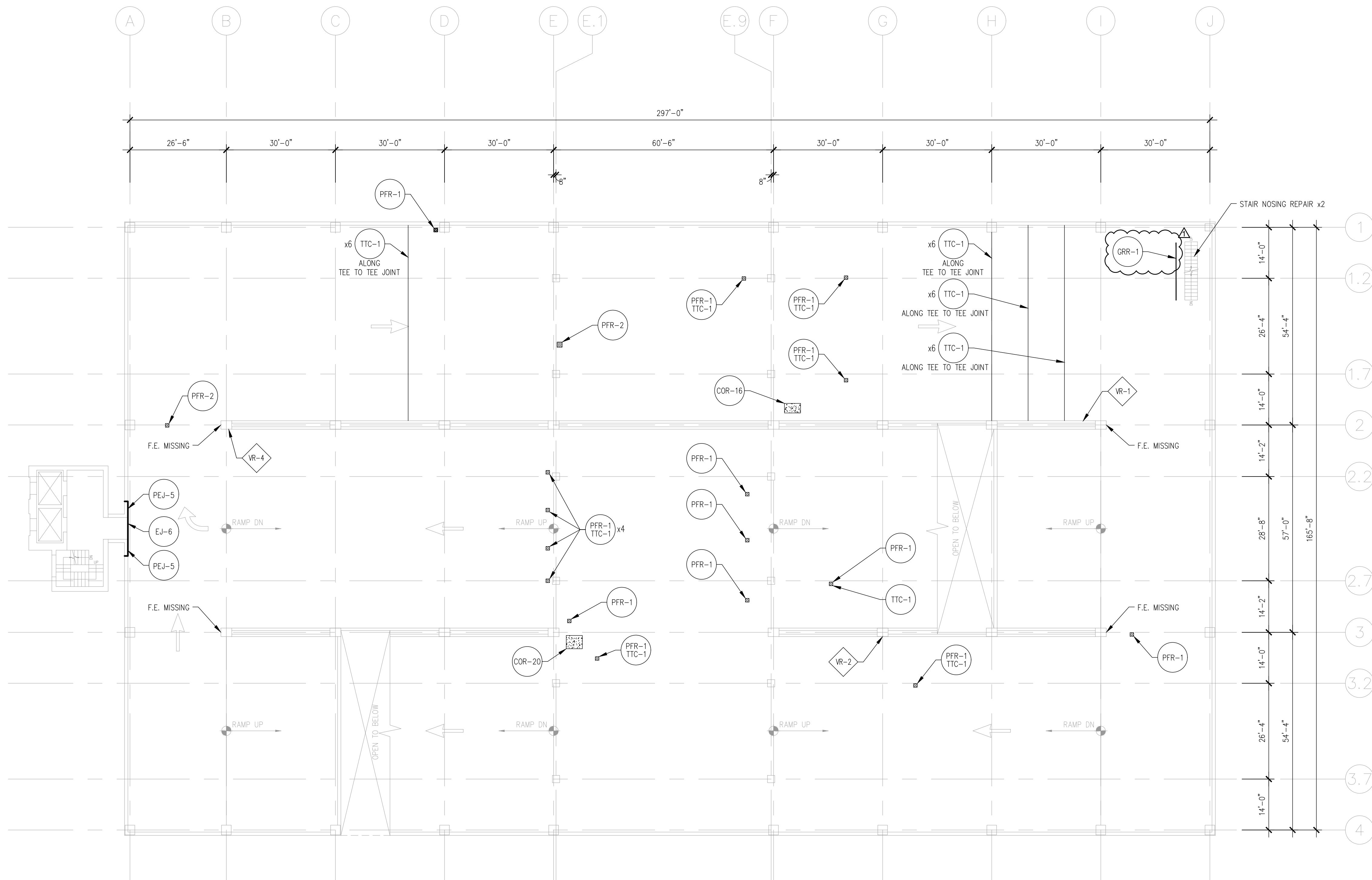
SHEET TITLE:  
FOURTH TIER RESTORATION PLAN

SHEET NO.

# R1.4



ISOMETRIC



- NOTE:
1. REPLACE ALL VERTICAL JOINT SEALANT AT COLUMNS: VSR-10 AT 40 COLUMNS (VSR-400).
  2. REPLACE ALL COVE SEALANT (SR-4,374).
  3. REPLACE ALL TEE TO TEE JOINT SEALANT (TTS-4,632)

**1**  
**R1.5** FIFTH (TOP) TIER RESTORATION PLAN  
SCALE: 1/16" = 1' - 0"

LEGEND		
<p><b>FLOOR REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE:  # OF LOCATIONS PER REFERENCE: ( # ) QUANTITY</p> <p><b>OVERHEAD / SOFFIT REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE:  # OF LOCATIONS PER REFERENCE: ( # ) QUANTITY</p> <p><b>VERTICAL REPAIR</b></p> <p>REPAIR TYPE OF REFERENCE:  # OF LOCATIONS PER REFERENCE: ( # ) QUANTITY</p>	<p> PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR</p> <p> OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR</p> <p> FULL DEPTH FLOOR REPAIR</p> <p> CONCRETE OVERLAY REPAIR</p> <p> STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION</p> <p> TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT</p>	<p><b>FLOOR REPAIR</b></p> <p>PFR PARTIAL DEPTH FLOOR REPAIR</p> <p>FFR FULL DEPTH FLOOR REPAIR</p> <p>TTS TEE-TO-TEE SEALANT REPLACEMENT</p> <p>SR SEALANT REPLACEMENT</p> <p>FCS STATIC FLOOR CRACK REPAIR</p> <p>EJ EXPANSION JOINT REPLACEMENT</p> <p>EJN EXPANSION JOINT NOSING REPAIR</p> <p>EI EPOXY INJECTION</p> <p>COR CONCRETE OVERLAY REPAIR</p> <p>TTC1 TEE-TO-TEE CONNECTION REPAIR</p> <p>CRB CURB REPAIR</p> <p>PEJ PRE-MOLD EXPANSION JOINT REPAIR</p> <p><b>OVERHEAD / SOFFIT REPAIR</b></p> <p>OBR OVERHEAD BEAM REPAIR</p> <p>OSR OVERHEAD SURFACE REPAIR</p> <p>EI EPOXY INJECTION</p> <p><b>VERTICAL REPAIR</b></p> <p>VR VERTICAL REPAIR</p> <p>HR HANDRAIL REPAIR</p> <p>VSR VERTICAL SEALANT REPLACEMENT</p> <p>EI EPOXY INJECTION</p> <p>BCR BARRIER CABLE REPAIR</p> <p>RPH REPAIRING HANDRAIL</p> <p>M1 MASONRY REPOINTING</p> <p>M2 MASONRY REPAIR</p>
<p>REPAIR AREAS ON PLAN ARE DEPICTED ON THE FOLLOWING SURFACES:</p> <p> PLAN ABOVE</p> <p> OVERHEAD / SOFFIT</p> <p> PLAN FLOOR</p>		

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NO.	DESCRIPTION	DATE
▲	ADDENDUM #1	05/06/2022

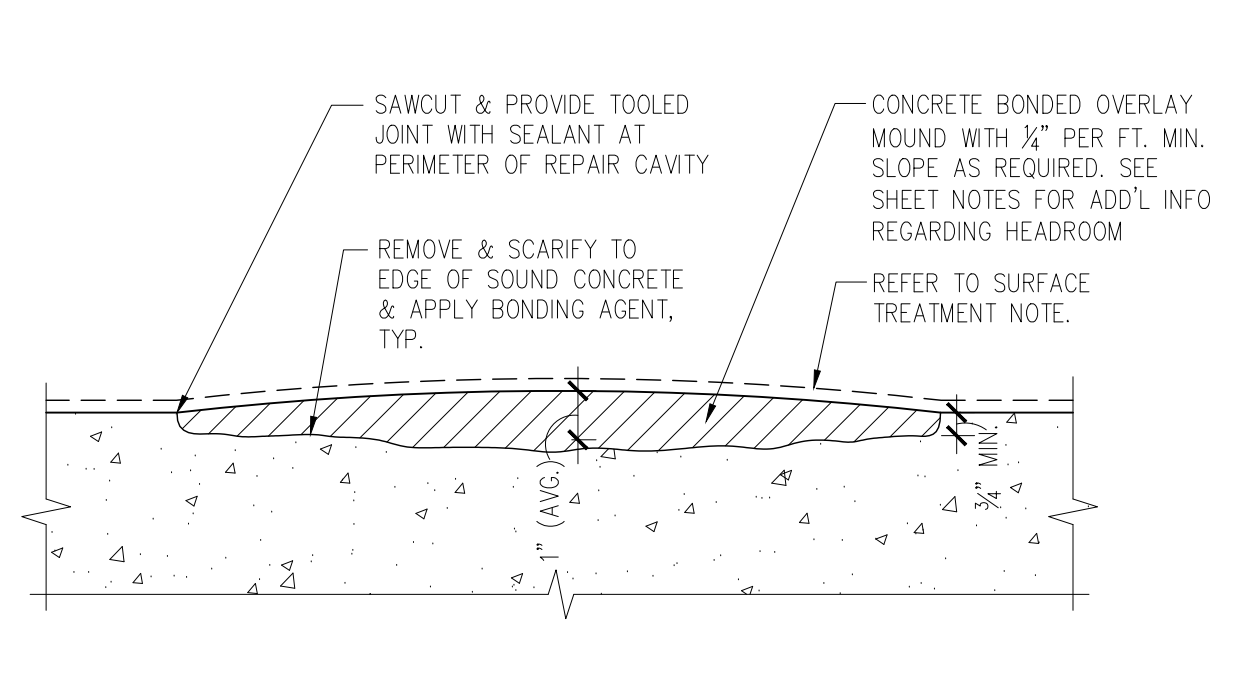
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DATE: 04/22/2022

SHEET TITLE:  
FIFTH TIER RESTORATION PLAN

SHEET NO.

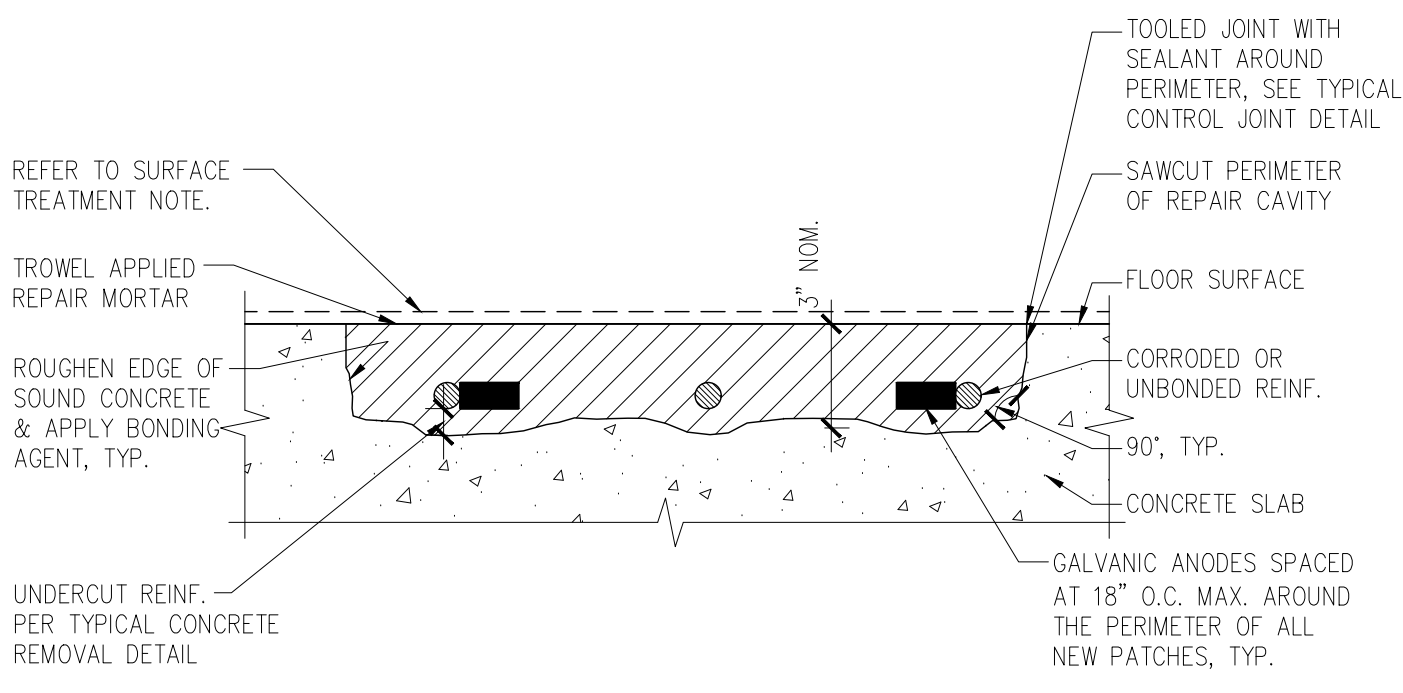
# R1.5





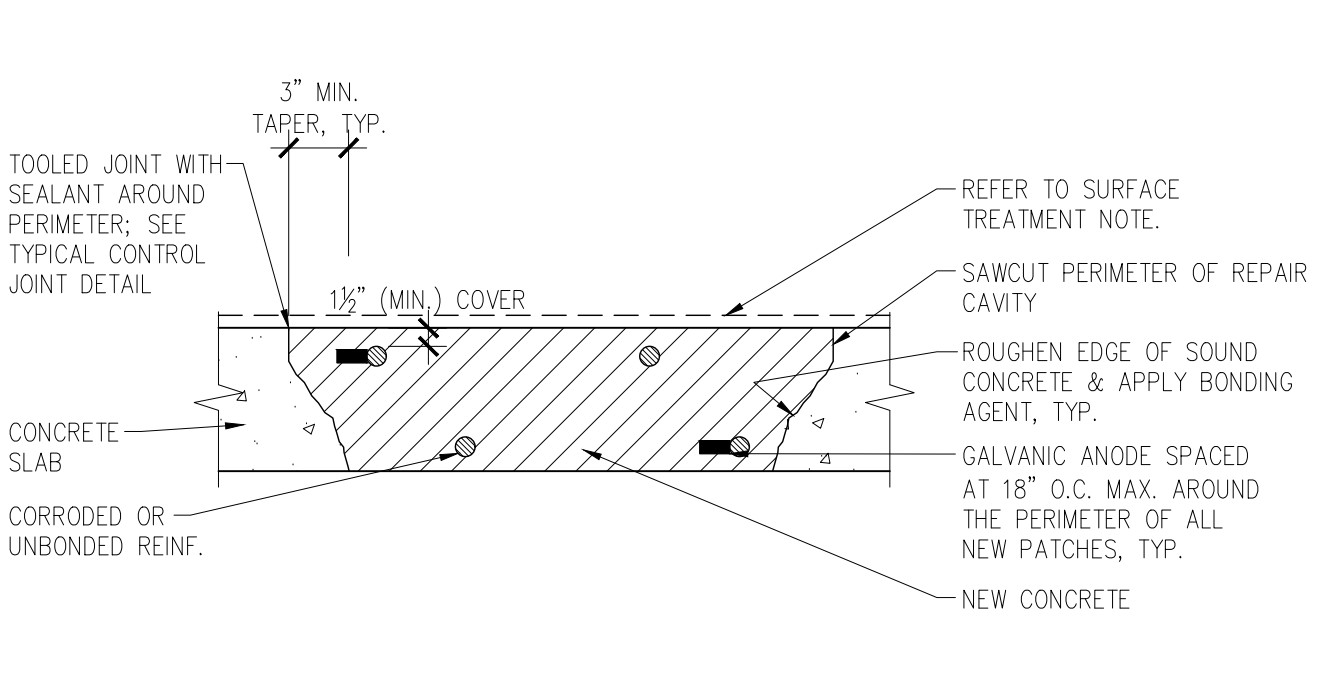
- REPAIR PROCEDURES:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  2. REMOVE DELAMINATED CONCRETE TO SOUND CONCRETE AS REQUIRED.
  3. APPLY APPROVED CONCRETE OVERLAY MATERIALS OVER PREPARED SURFACE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND RECOMMENDED PROCEDURES.
  4. SURFACE TREATMENT NOTE: PENETRATING SEALER, PENETRATING CORROSION INHIBITING TREATMENT, TRAFFIC DECK COATING, AND/OR OTHER SURFACE TREATMENT AS INDICATED ON THE DRAWINGS. IF SURFACE TREATMENT IS NOT INDICATED, APPLY PENETRATING SEALER TO THE REPAIR AND EXTEND 6" MIN. BEYOND PERIMETER OF REPAIR. THE PENETRATING SEALER SHALL BE INCLUDED IN THE UNIT COST OF THE CONCRETE REPAIR; ALL OTHER SURFACE TREATMENTS SHALL BE EXCLUDED FROM THE UNIT COST.

**1 R2.1 REPAIR TYPE COR CONCRETE OVERLAY REPAIR**  
SCALE: N.T.S.



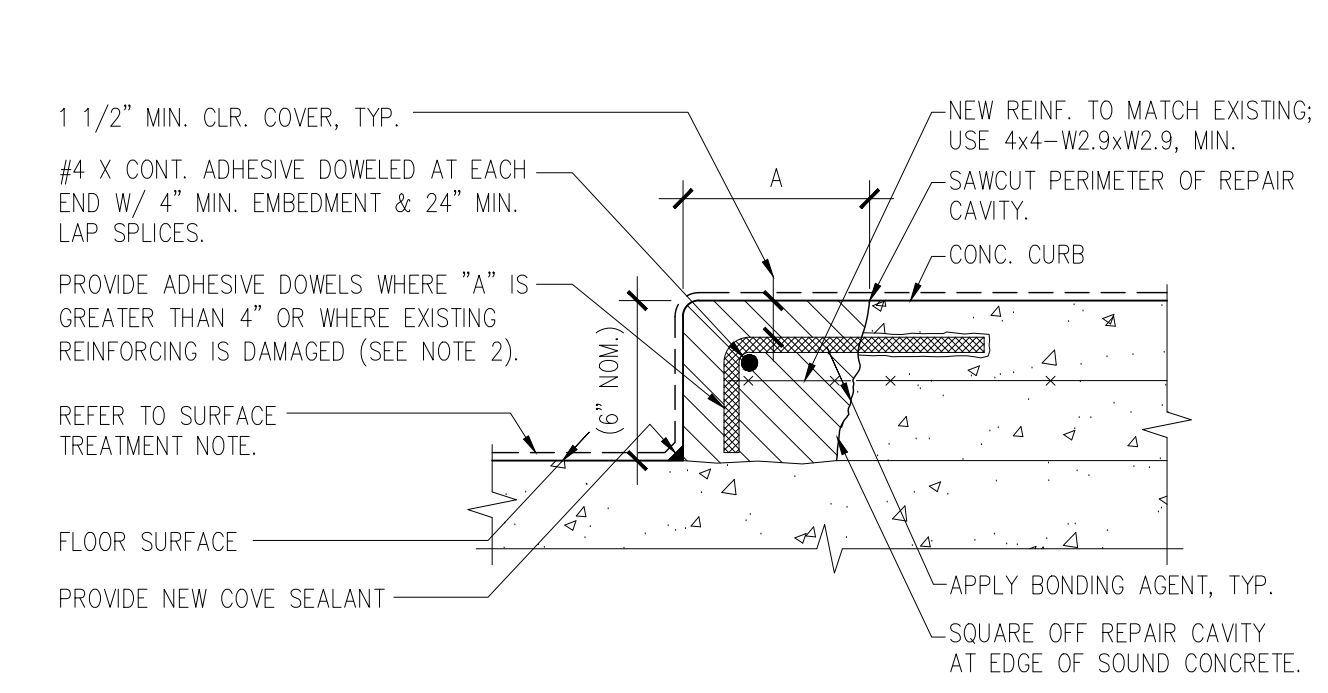
- REPAIR PROCEDURES:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  2. INSTALL GALVANIC ANODES AT THE PERIMETER OF ALL REPAIR PATCHES PER MANUFACTURER'S RECOMMENDATIONS. VERIFY CONTINUITY & PROVIDE ADEQUATE CONCRETE COVER FOR GALVANIC ANODES. ANODES ARE NOT INCLUDED IN THE UNIT PRICE.
  3. SURFACE TREATMENT NOTE: PENETRATING SEALER, PENETRATING CORROSION INHIBITING TREATMENT, TRAFFIC DECK COATING, AND/OR OTHER SURFACE TREATMENT AS INDICATED ON THE DRAWINGS. IF SURFACE TREATMENT IS NOT INDICATED, APPLY PENETRATING SEALER TO THE REPAIR AND EXTEND 6" MIN. BEYOND PERIMETER OF REPAIR. THE PENETRATING SEALER SHALL BE INCLUDED IN THE UNIT COST OF THE CONCRETE REPAIR; ALL OTHER SURFACE TREATMENTS SHALL BE EXCLUDED FROM THE UNIT COST.
  4. INCLUDE COST OF SEALANT AT CAVITY PERIMETER/CONTROL JOINTS AND SURFACE TREATMENT (SEE NOTE 4) IN THE UNIT COST. SEE TYPICAL CONTROL JOINT DETAIL FOR JOINT SPACING.

**2 R2.1 REPAIR TYPE PFR PARTIAL-DEPTH FLOOR REPAIR DETAIL**  
SCALE: N.T.S.



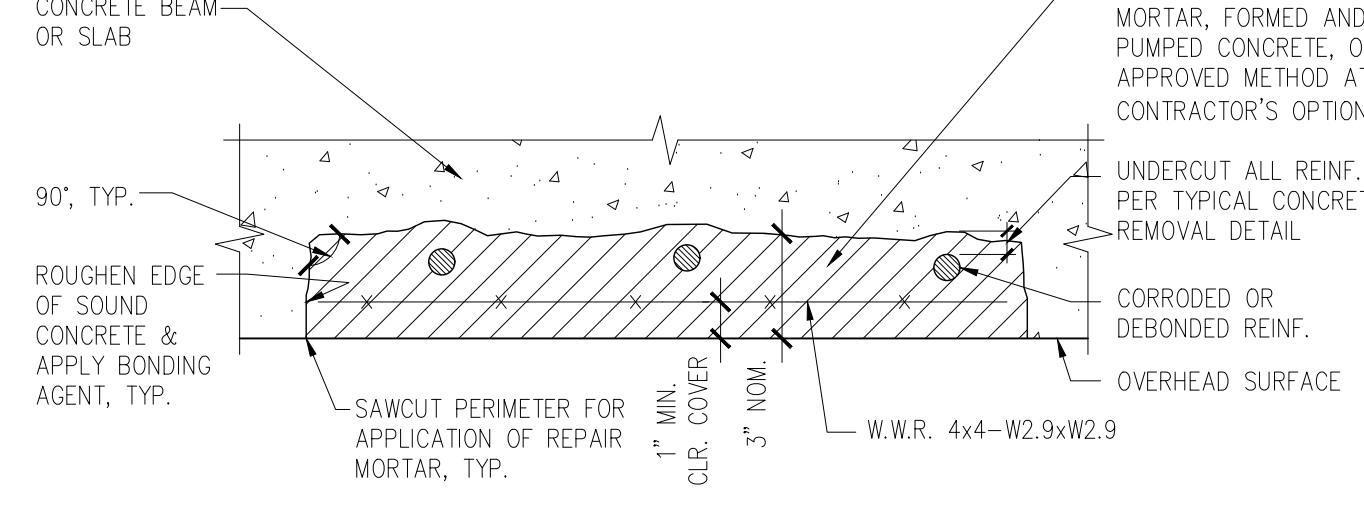
- REPAIR PROCEDURES:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  2. INSTALL GALVANIC ANODES AT THE PERIMETER OF ALL REPAIR PATCHES PER MANUFACTURER'S RECOMMENDATIONS. VERIFY CONTINUITY & PROVIDE APPROPRIATE COVER FOR GALVANIC ANODES. ANODES ARE NOT INCLUDED IN THE UNIT PRICE.
  3. SURFACE TREATMENT NOTE: PENETRATING SEALER, PENETRATING CORROSION INHIBITING TREATMENT, TRAFFIC DECK COATING, AND/OR OTHER SURFACE TREATMENT AS INDICATED ON THE DRAWINGS. IF SURFACE TREATMENT IS NOT INDICATED, APPLY PENETRATING SEALER TO THE REPAIR AND EXTEND 6" MIN. BEYOND PERIMETER OF REPAIR. THE PENETRATING SEALER SHALL BE INCLUDED IN THE UNIT COST OF THE CONCRETE REPAIR; ALL OTHER SURFACE TREATMENTS SHALL BE EXCLUDED FROM THE UNIT COST.
  4. INCLUDE COST OF SEALANT AT CAVITY PERIMETER/CONTROL JOINTS AND SURFACE TREATMENT (SEE NOTE 3) IN THE UNIT COST. SEE TYPICAL CONTROL JOINT DETAIL FOR JOINT SPACING.

**3 R2.1 REPAIR TYPE FFR FULL-DEPTH FLOOR REPAIR DETAIL**  
SCALE: N.T.S.



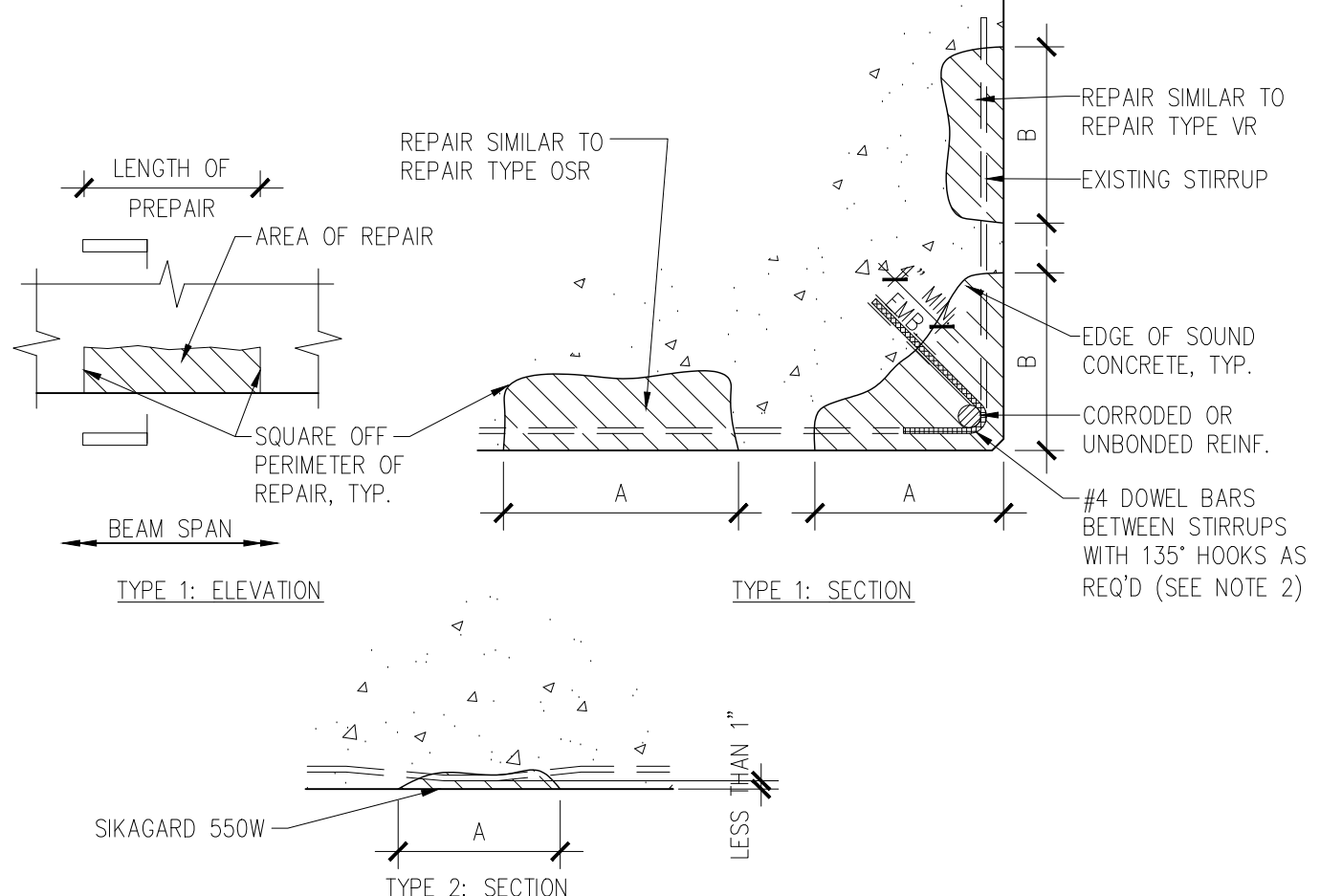
- REPAIR PROCEDURES:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  2. PROVIDE #4 ADHESIVE DOWEL BAR WITH 90° HOOK & 4" MIN. EMBEDMENT @ 12" O.C. MAX.
  3. SURFACE TREATMENT NOTE: PENETRATING SEALER, PENETRATING CORROSION INHIBITING TREATMENT, TRAFFIC DECK COATING, AND/OR OTHER SURFACE TREATMENT AS INDICATED ON THE DRAWINGS. IF SURFACE TREATMENT IS NOT INDICATED, APPLY PENETRATING SEALER TO THE REPAIR AND EXTEND 6" MIN. BEYOND PERIMETER OF REPAIR. THE PENETRATING SEALER SHALL BE INCLUDED IN THE UNIT COST OF THE CONCRETE REPAIR; ALL OTHER SURFACE TREATMENTS SHALL BE EXCLUDED FROM THE UNIT COST.
  4. PAINT 6" WIDE LINE STRIPE @ EDGE OF CURB TO MATCH EXISTING; COLOR: SAFETY YELLOW.
  5. UNIT OF REPAIR AREA = (A) x LENGTH OF REPAIR = SF.

**4 R2.1 REPAIR TYPE CRB CURB REPAIR**  
SCALE: N.T.S.



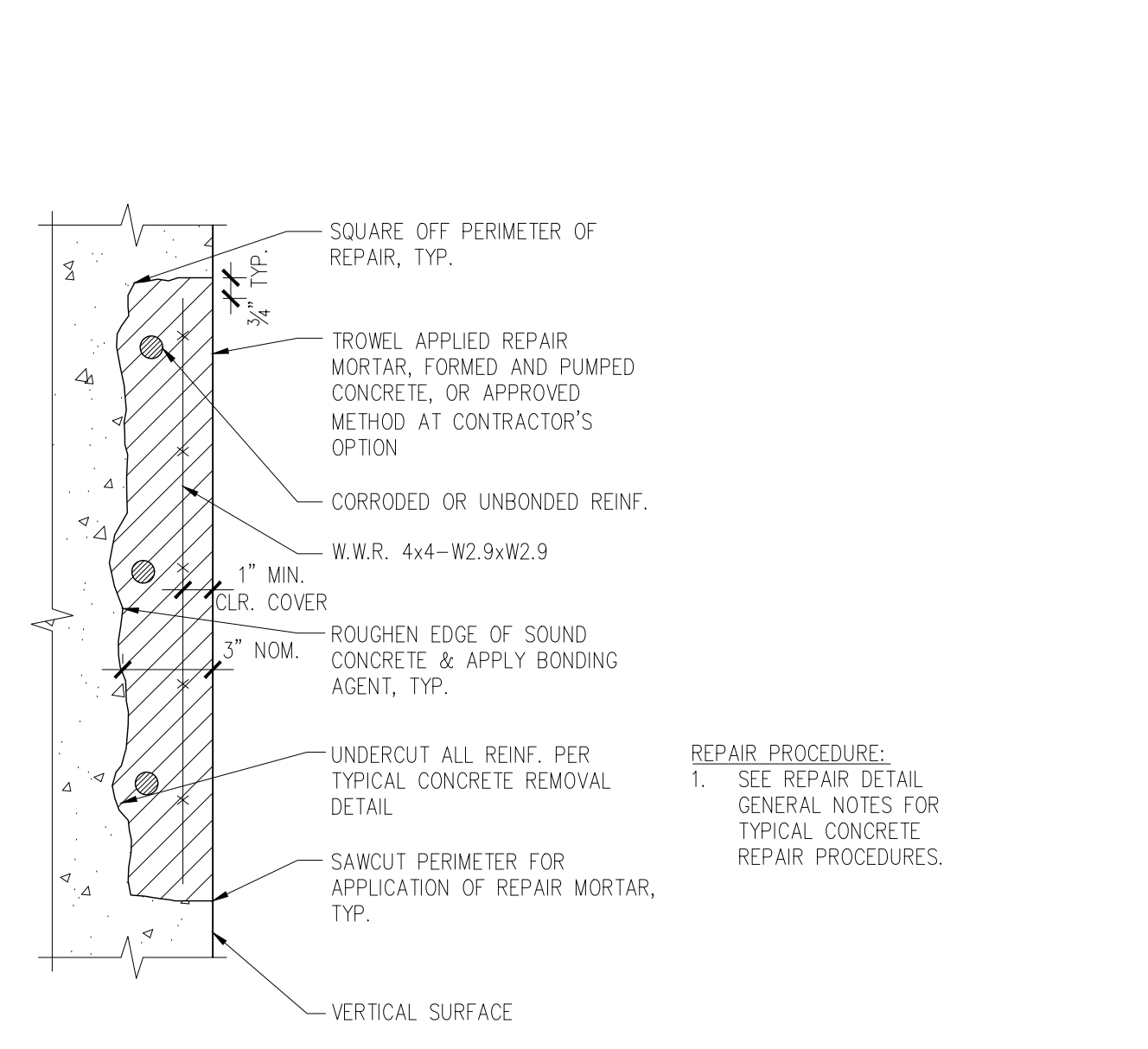
- REPAIR PROCEDURES:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  2. APPLY REPAIR MORTAR APPROVED BY THE ENGINEER AS INDICATED IN THE SHADED AREA BY FORMED AND PUMPED CONCRETE, OR OTHER APPROVED METHOD AT CONTRACTOR'S OPTION. SEE SPECS FOR ADD'L INFO.

**5 R2.1 REPAIR TYPE OSR OVERHEAD SURFACE REPAIR DETAIL**  
SCALE: N.T.S.



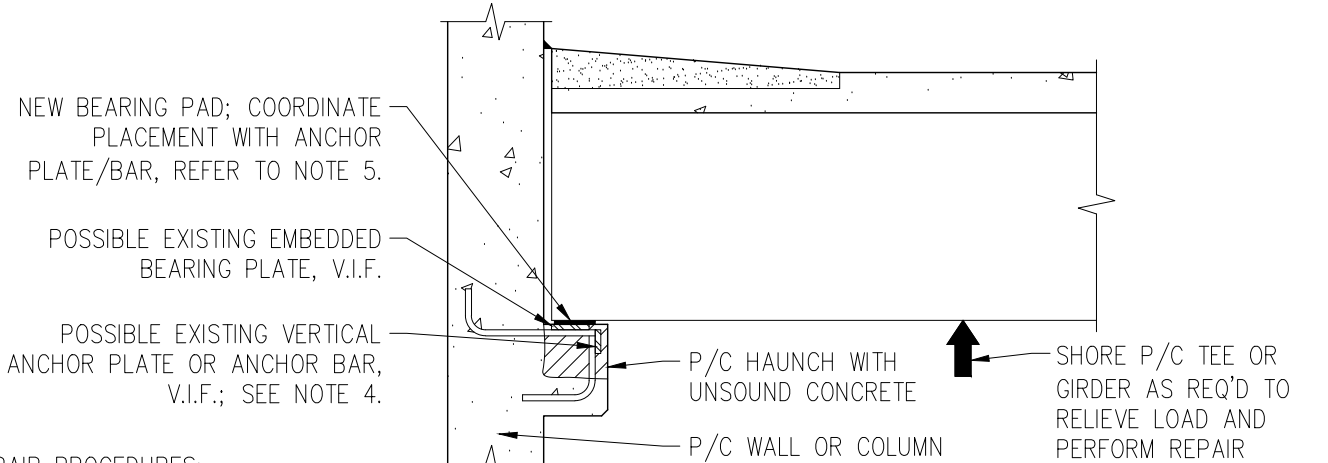
- REPAIR PROCEDURES:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  2. FOR CAVITIES DEEPER THAN 6", PROVIDE #4 ADHESIVE DOWEL BARS WITH 135° HOOKS IN BETWEEN STIRRUPS AT A MAXIMUM SPACING OF 6" O.C.
  3. UNIT OF REPAIR =  $\sum (A + B) \times \text{LENGTH OF REPAIR} = \text{SF}$ .
  4. FOR BIDDING PURPOSES, ASSUME REPAIR DEPTH = 3" NOMINAL.
  5. FOR BIDDING PURPOSES, TYPE 2 SHALL BE CONSIDERED AS TYPE 1.

**6 R2.1 REPAIR TYPE OBR1 AND OBR2 OVERHEAD BEAM REPAIR**  
SCALE: N.T.S.



- REPAIR PROCEDURE:**
1. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.

**7 R2.1 REPAIR TYPE VR VERTICAL REPAIR**  
SCALE: N.T.S.



- REPAIR PROCEDURES:**
1. SHORE / JACK TEE OR GIRDER AS REQ'D TO RELIEVE LOAD ON HAUNCH AND PERFORM REPAIR. SHORE ALL LEVELS TO SLAB ON GRADE AS REQ'D TO ENSURE INTERMEDIATE LEVELS ARE NOT OVERSTRESSED. SHORE / JACK MEMBER PER GENERAL NOTE A.3 ON SHEET R0.1.
  2. SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
  3. NOTIFY ENGINEER TO REVIEW REINFORCEMENT CONDITION AFTER DEMOLITION. INSTALL NEW REINFORCING PER ENGINEER'S DIRECTION AT UNIT PRICING.
  4. IF A VERTICAL ANCHORAGE PLATE EXISTS, PERFORM SURFACE PREPARATION AS INDICATED ON R0.1. THEN WELD WIRE TO THE PLATE TO PROVIDE POSITIVE ANCHORAGE OF THE NEW REPAIR MORTAR. BEND W4.0 WIRE IN SINUSOIDAL SHAPE W/ 3/4" AMPLITUDE & 4" WAVELENGTH. CUT WIRES TO 1" LESS THAN THE PLATE WIDTH & TACK WELD TO THE HAUNCH PLATE @ 3" O.C. APPLY BONDING/ANTI-CORROSION AGENT TO THE PLATE & WIRE TO ASSURE THE REPAIR MATERIAL BONDS TO THE PLATE.
  5. ADHERE NEW RANDOM ORIENTED FIBER BEARING PAD TO BOTTOM OF TEE STEM OR GIRDER USING STRUCTURAL ADHESIVE (3/8"x6"x6" FOR REPAIR TYPE HR); (1/2"xW-3"xD-2" FOR REPAIR TYPE HRG, WHERE W IS THE WIDTH OF THE HAUNCH AND D IS THE DEPTH OF THE HAUNCH IN INCHES). APPLY PRESSURE DURING ADHESION PROCESS TO ASSURE FULL CONTACT BETWEEN BEARING PAD AND CONCRETE. THE BEARING PAD SHALL BE POSITIONED SO IT DOES NOT PROJECT BEYOND THE INTERIOR FACE OF THE TRANSVERSE ANCHOR PLATE OR BAR WITHIN THE HAUNCH OR CORBEL.
  6. PROVIDE 1/2" CONC. COVER ON EMBEDDED REBAR & PLATES.
  7. REPAIR UNSOUND CONCRETE SIMILAR TO REPAIR TYPE OBR OR VR PER ENGINEER'S DIRECTION (ASSUME OBR-4 FOR BIDDING PURPOSES). ASSURE THAT NEW REPAIR PROVIDES FULL BEARING BETWEEN BEARING PAD AND CONCRETE SURFACES.
  8. REMOVE SHORING AFTER MATERIAL REACHES DESIGN STRENGTH.
  9. REPAIR UNIT IS PER HAUNCH.
    - A. REPAIR TYPE HR: PRECAST CONCRETE DOUBLE TEE HAUNCH
    - B. REPAIR TYPE HRG: PRECAST CONCRETE GIRDER HAUNCH
  10. SUPERFICIAL CONCRETE REPAIRS THAT DO NOT REQUIRE SHORING AND BEARING PAD REPLACEMENT SHALL BE BILLED AS REPAIR TYPE VR OR OBR AS APPROPRIATE.

**8 R2.1 REPAIR TYPE HR AND HRG HAUNCH REPAIR DETAIL**  
SCALE: N.T.S.

- REPAIR DETAIL GENERAL NOTES:**
1. REFER TO SHEET R0.1 FOR GENERAL NOTES.
  2. REFER TO RESTORATION PLANS FOR APPROXIMATE SIZE AND LOCATIONS OF REPAIR AREAS.
  3. DETAILS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. EXACT CONDITIONS VARY (i.e. DIMENSIONS, REBAR, ANODES, ETC.).
  4. TYPICAL CONCRETE REPAIR PROCEDURES ARE AS FOLLOWS, U.N.O.:
    - A. THE DRAWINGS INDICATE THE AREAS THAT HAVE BEEN DETERMINED TO REQUIRE REPAIR PER ENGINEER'S FIELD SURVEY. CONTRACTOR SHALL SOUND SURFACES WITH HAMMER, ROD, CHAIN, OR APPROPRIATE TOOL TO DETECT DELAMINATION EXTENTS. SEE "GENERAL SURFACE PREPARATION" ON SHEET R0.1.
    - B. SAWCUT 1/2" MAX. PERIMETER OF REPAIR AREAS TO AVOID CUTTING REINFORCEMENT.
    - C. REMOVE DELAMINATED CONCRETE TO SOUND CONCRETE. IF REINFORCEMENT IS GREATER THAN HALF EXPOSED, DEBONDED FROM CONCRETE, OR CORRORDED, UNDERCUT REINFORCEMENT 3/4" OR 1/2" LARGER THAN THE LARGEST ADEQUATE IN REPAIR MATERIAL, WHICHEVER IS GREATER, U.N.O. SEE TYPICAL CONCRETE REMOVAL DETAIL FOR CLARIFICATION. UNDERCUT REINFORCEMENT AT ALL VERTICAL AND OVERHEAD REPAIRS.
    - D. CARE SHALL BE TAKEN NOT TO BREAK NON-CORRODED REINFORCEMENT BOND TO SURROUNDING CONCRETE. IF BOND IS BROKEN, UNDERCUTTING OF THE REINFORCEMENT IS REQUIRED.
    - E. PROVIDE RIGHT ANGLE CUTS / SQUARE OFF ENDS ALONG PERIMETER OF REPAIR AREAS.
    - F. CLEAN SURFACE FREE OF DUST, LAITANCE, AND OTHER INHIBITING MATERIALS AS INDICATED UNDER "GENERAL SURFACE PREPARATION" ON SHEET R0.1.
    - G. DAMAGED REINFORCEMENT WITH SECTION LOSS LESS THAN 20% SHALL BE PREPARED AS INDICATED UNDER "GENERAL SURFACE PREPARATION" ON SHEET R0.1.
    - H. DAMAGED REINFORCEMENT WITH SECTION LOSS GREATER THAN 20% SHALL BE SUPPLEMENTED AND DEVELOPED INTO EXISTING REINFORCEMENT. ADDITIONAL REINFORCEMENT SHALL BE SUPPLIED AT UNIT COST, U.N.O.
    - I. ALL EXISTING EXPOSED STEEL SHALL BE COATED WITH STEEL CORROSION INHIBITING TREATMENT IN ACCORDANCE WITH SPECIFICATION SECTION 039300.
    - J. PREPARE CONCRETE SUBSTRATE, INCLUDING APPLYING APPLICABLE BONDING AGENT TO THE SCARIFIED PATCHING SURFACE, TO RECEIVE NEW REPAIR MORTAR.
    - K. PROVIDE 1/2" CONC. COVER U.N.O.: REQUIRED COVER IS NOT ACHIEVABLE, MOUND CONCRETE TO PROVIDE THE MINIMUM COVER REQUIRED OVER MAJORITY OF REINFORCEMENT WHILE MAINTAINING REQUIRED HEADROOM. IF HEADROOM CANNOT BE ACHIEVED, CONSULT ENGINEER.
    - L. PREPARE, PLACE, FINISH, & CURE REPAIR MORTAR PER MANUFACTURER'S REQUIREMENTS & SPECIFICATION SECTION 039300. CONCRETE PER SPECIFICATION SECTION 033000 MAY BE USED AT CONTRACTOR'S OPTION FOR REPAIR GREATER THAN 3", U.N.O. PLACE TOOLED JOINTS AND SEALANT PER "TYPICAL CONTROL JOINT DETAIL".
    - M. RE-PAINT PARKING STALLS & TRAFFIC MARKINGS AS REQUIRED TO MATCH EXISTING CONDITIONS.

CONSULTANT

PROJECT NO.  
NBR22110.00  
PROJECT

## HINSON GARAGE 2022 RESTORATION

Camden, NJ

SUBMISSIONS / REVISIONS

ISSUE FOR BID  
04/22/2022

NO.	DESCRIPTION	DATE

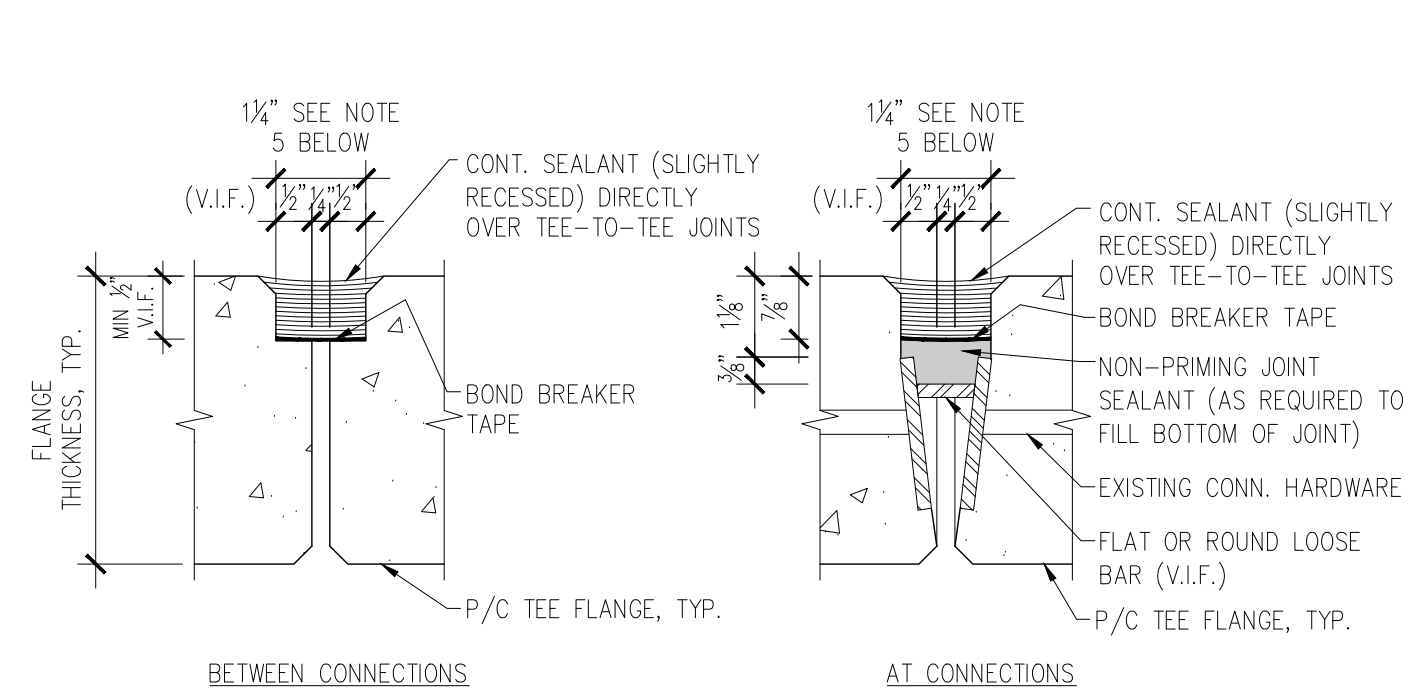
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DATE: 04/22/2022

SHEET TITLE:

REPAIR DETAILS

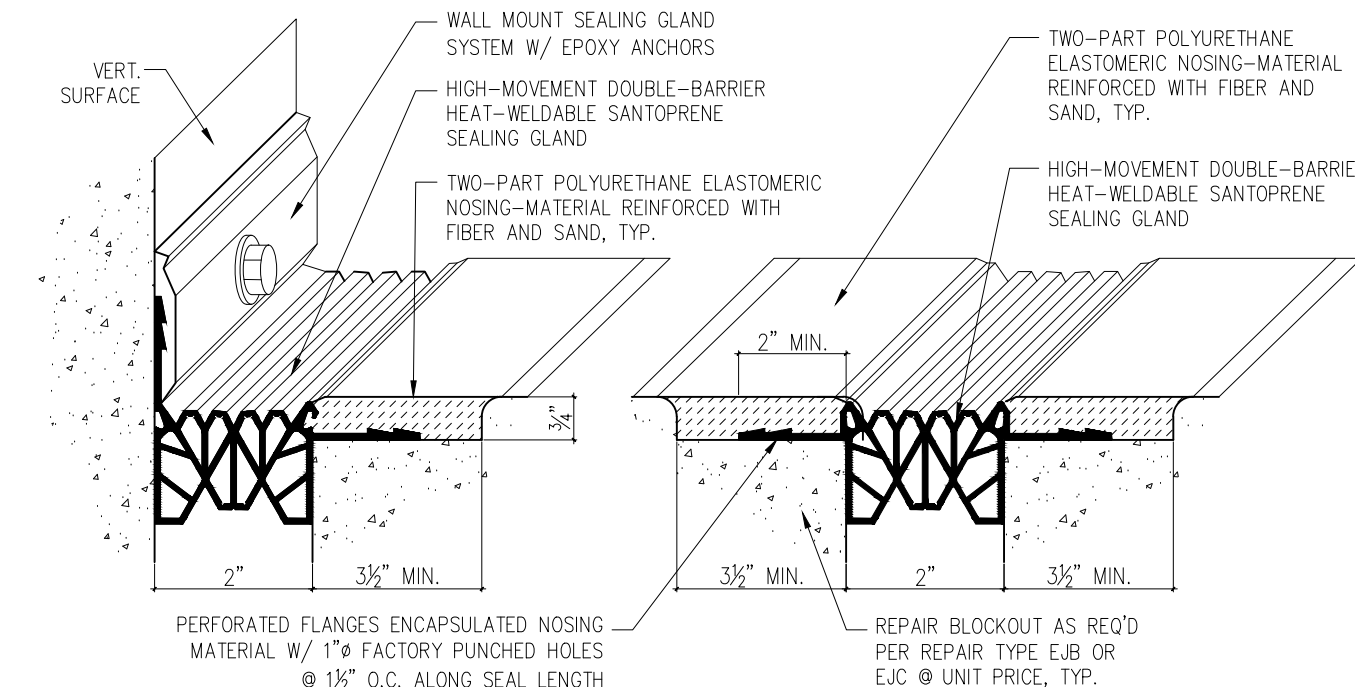
SHEET NO.

# R2.1



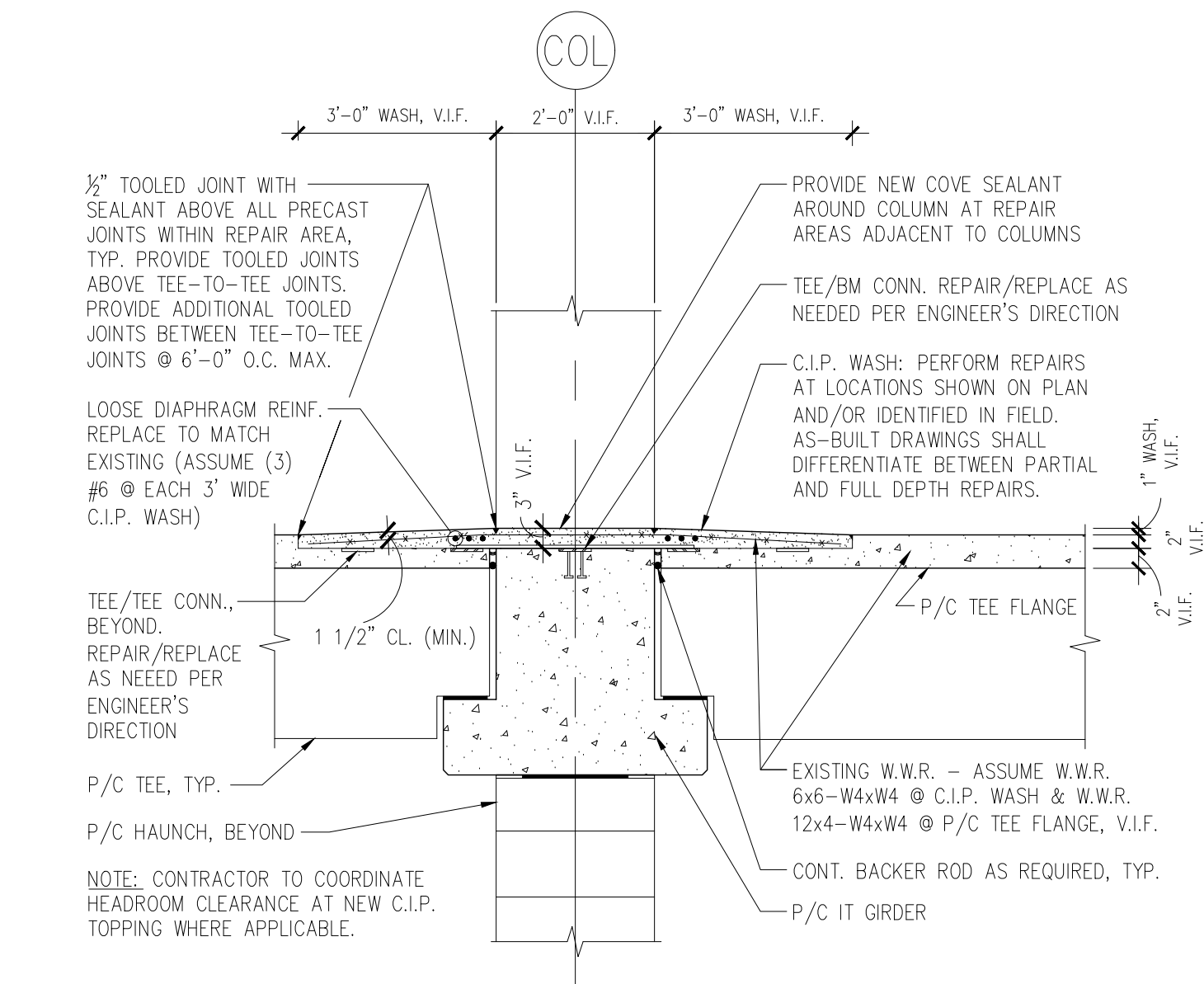
- REPAIR PROCEDURES:**
1. REMOVE EXISTING SEALANT ALONG THE ENTIRE LENGTH OF DOUBLE TEE, U.N.O.
  2. INSPECT TEE-TO-TEE CONNECTIONS AND REPORT DETERIORATION AND/OR FAILURES TO ENGINEER. CONNECTION FAILURES THAT ARE NOT OBVIOUS DURING A VISUAL INSPECTION, BECOME MORE APPARENT IF DIFFERENTIAL DEFLECTION OCCURS WHEN A VEHICLE PASSES OVER THE JOINT. REPAIR CONNECTIONS PER ENGINEER'S DIRECTION USING REPAIR TYPE TTC. DO NOT REPLACE JOINT SEALANT UNTIL CONNECTION REPAIRS ARE COMPLETE.
  3. REMOVE DUST, FOREIGN PARTICLES, AND BOND INHIBITING MATERIALS FROM SURFACE BY BLAST-CLEANING.
  4. PROVIDE BOND BREAKING TAPE AT BOTTOM OF JOINTS. APPLY PRIME COAT TO SURFACE AND SEAL WITH AN APPROVED POLYURETHANE SEALANT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND PROCEDURES. DO NOT OVERTILL JOINT.
  5. SEALANT MUST BE APPLIED EVENLY AND RECESSED SLIGHTLY (1/8") BELOW SURFACE.
  6. JOINTS BETWEEN TEE COMPONENTS MAY VARY IN THE FIELD. FIELD VERIFY ACTUAL CONDITIONS.

**1**  
**R2.2** **REPAIR TYPE TTS TEE-TO-TEE JOINT SEALANT REPLACEMENT**  
**SCALE: N.T.S.**

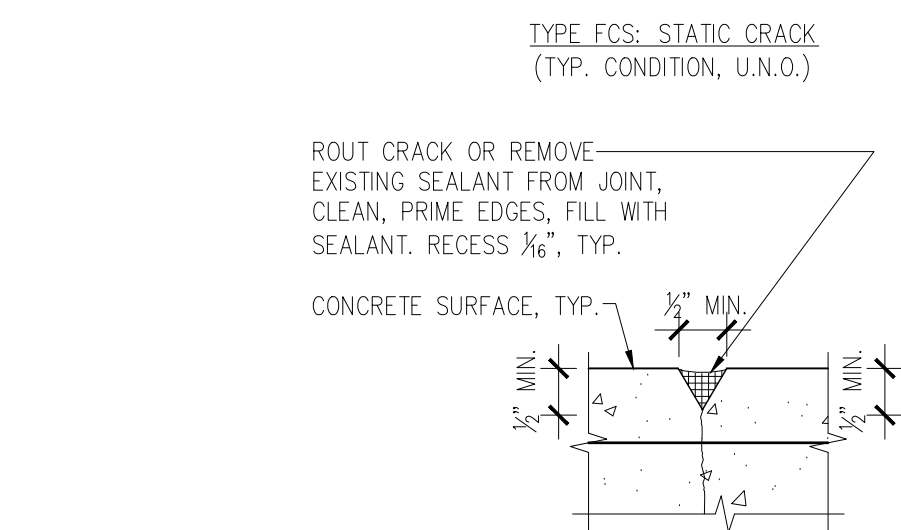


- REPAIR PROCEDURES:**
1. EXPANSION JOINT MANUFACTURER TO SIZE SEALING GLAND FOR FIELD MEASURED GAP AND TO ACCOUNT FOR ALL APPLICABLE MOVEMENT AFTER INSTALLATION.
  2. THE CONTRACTOR MUST COORDINATE ACTUAL SIZE OF BLOCKOUTS REQUIRED BY EXPANSION JOINT MATERIAL.
  3. VERIFY THE FOLLOWING INFORMATION WITH THE MANUFACTURER'S TECHNICAL REPRESENTATIVE AND SUBMIT THE SHOP DRAWINGS PRIOR TO ORDERING MATERIAL: JOINT SELECTED, FIELD MEASUREMENT, DATE TAKEN, OUTDOOR TEMPERATURE, & STRUCTURE TEMPERATURE (TOP & BOTTOM).
  4. REMOVE EXISTING JOINT & PREP JOINT SUBSTRATE AS REQUIRED PER MANUFACTURER'S REQUIREMENTS.
  5. PROVIDE SPLICES PER TYPICAL EXPANSION JOINT SPLICE DETAIL & MANUFACTURER'S REQUIREMENTS, AS REQ'D. SEE TYPICAL EXPANSION JOINT SPLICE DETAIL FOR ADDITIONAL INFORMATION.
  6. THE EXPANSION JOINT SYSTEM MUST BE ADA ACCESSIBLE.
  7. USE WALL EXPANSION JOINT WHERE APPLICABLE.
  8. REPAIR TYPE EJ SHALL CONSIST OF REMOVING AND REPLACING THE ENTIRE EXPANSION JOINT SYSTEM.
  9. REPAIR TYPE EJM SHALL CONSIST OF REMOVING AND REPLACING THE ELASTOMERIC NOSING MATERIAL ON ONE SIDE OF THE JOINT. THE NEW NOSING MATERIAL SHALL BE INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ASSUME A = 4" & B = 2" (UNIT OF REPAIR = LF). A TWO-PART POLYURETHANE ELASTOMERIC NOSING-MATERIAL REINFORCED WITH FIBER AND SAND SHOULD BE USED.

**5**  
**R2.2** **REPAIR TYPE EJ & EJM EXPANSION JOINT REPLACEMENT & NOSING REPAIR**  
**SCALE: N.T.S.**

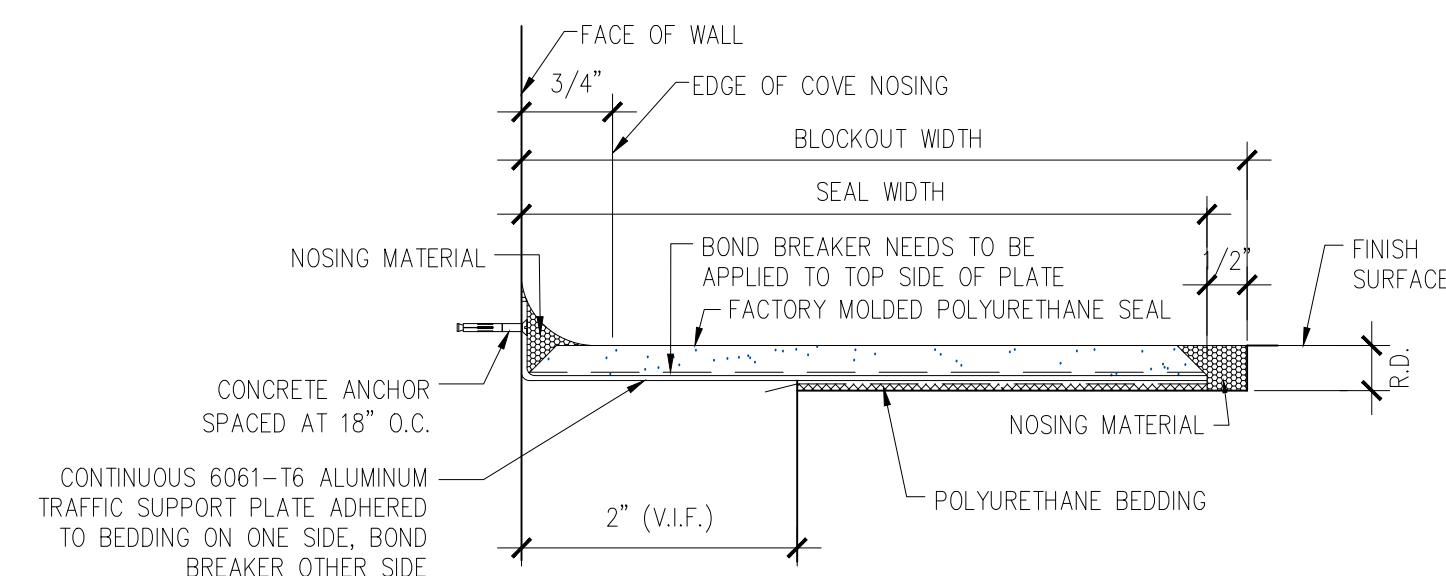


**8**  
**R2.2** **TYPICAL C.I.P. WASH DETAIL (FOR REFERENCE ONLY)**  
**SCALE: N.T.S.**



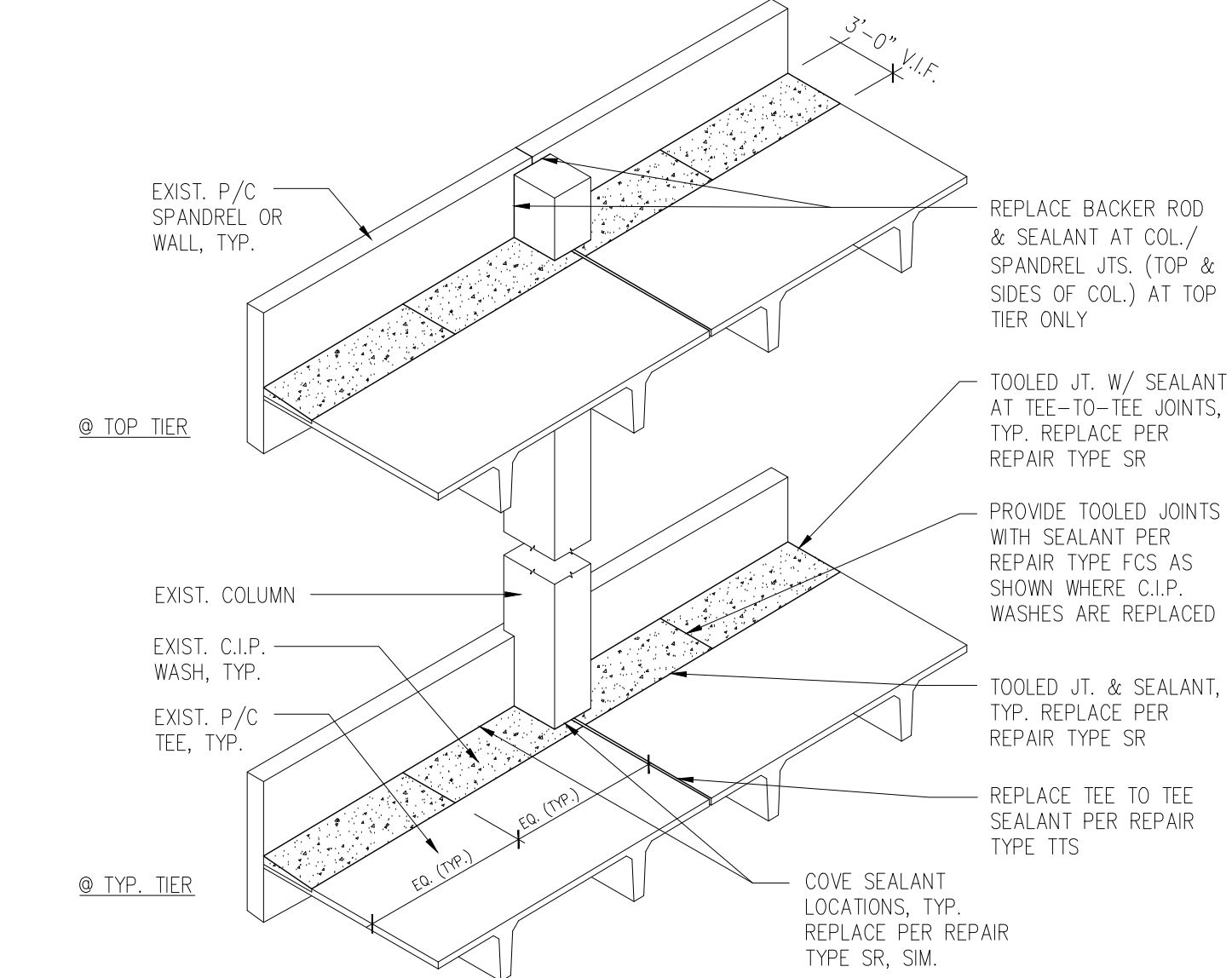
- REPAIR PROCEDURES:**
1. ROUT AT CENTER OF CRACK OR TOOLED JOINT TO FORM A GROOVE AND GRIND ANY UNEVEN SURFACES OR REMOVE SEALANT FROM EXISTING JOINT.
  2. REMOVE SEALANT FROM EXISTING JOINT.
  3. SEALANT MUST BE APPLIED EVENLY AND RECESSED 3/16" BELOW SURFACE. INSTALL SEALANT FLUSH WITH SURFACE FOR AREAS TO RECEIVE TRAFFIC DECK MEMBRANE. DO NOT OVERTILL JOINT.
  4. SEE SPECIFICATION SECTION 079020 FOR ADDITIONAL REQUIREMENTS.

**2**  
**R2.2** **REPAIR TYPE FCS FLOOR CRACK REPAIR**  
**SCALE: N.T.S.**

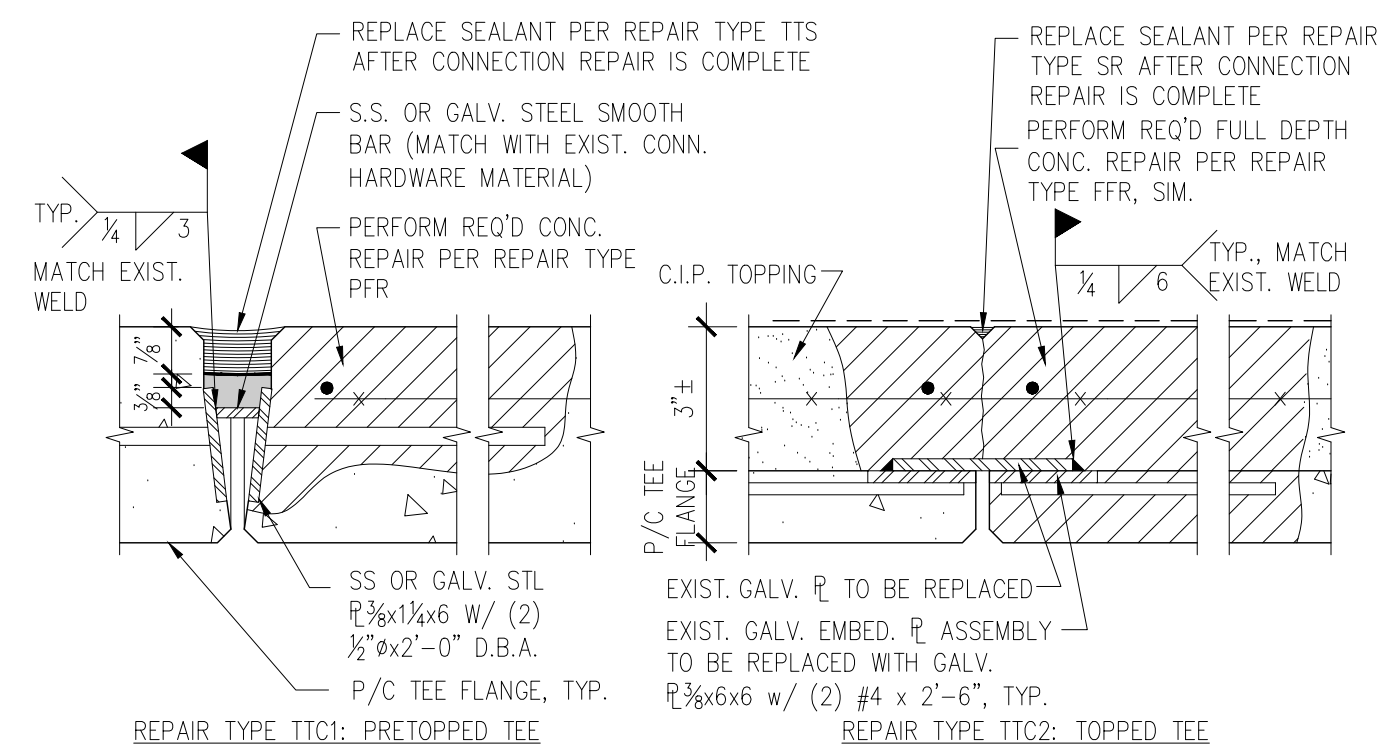


- NOTES:**
1. SEE DETAIL 5/R2.2 FOR REPAIR PROCEDURES, TYP.

**6**  
**R2.2** **REPAIR TYPE PEJ PRE-MOLD EXPANSION JOINT REPLACEMENT**  
**SCALE: N.T.S.**

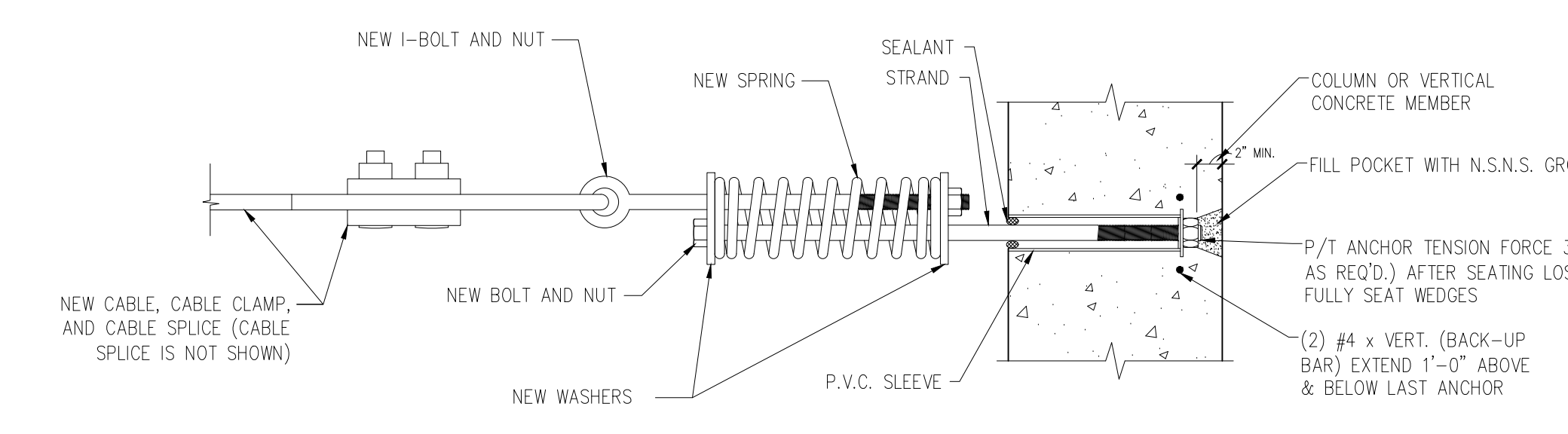


**9**  
**R2.2** **TYPICAL JOINT SEALANT @ P/C TEE SYSTEM (FOR REFERENCE ONLY)**  
**SCALE: N.T.S.**



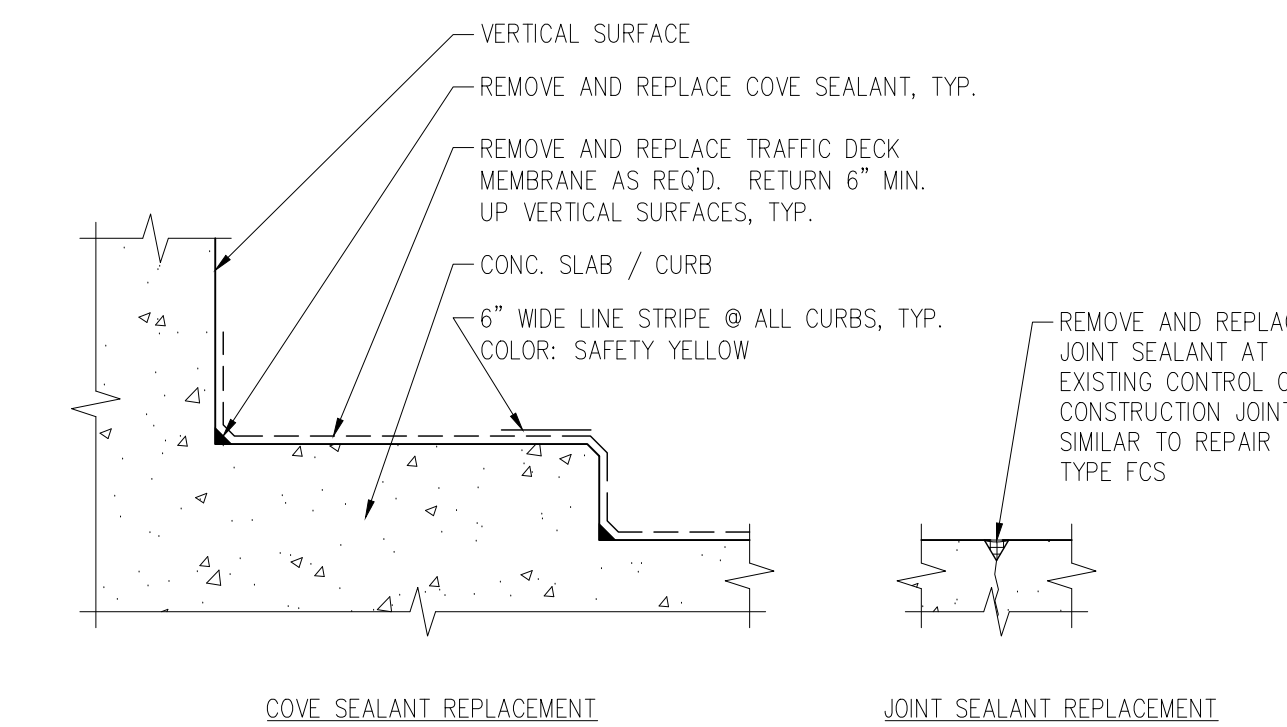
- REPAIR PROCEDURES:**
1. REPAIR TYPE TTC1&2: EMB. HARDWARE TO BE REPLACED AT ONE SIDE ONLY.
    - A. REMOVE DELAMINATED CONCRETE AROUND THE TEE-TO-TEE CONNECTION PER CONC. REPAIR SHEET NOTES ON SHEET R2.1.
    - B. REMOVE & REPLACE EXIST. EMBEDDED PLATE ASSEMBLY. REPAIR SHADED REPAIR AREA PER REPAIR TYPE PFR. FOR BIDDING PURPOSES ASSUME 4 SF OF CONCRETE REPAIR FOR REPAIR TYPES TTC1 & TTC2.
    - C. REPLACE DAMAGED REINFORCING PER GENERAL NOTE D.3/R0.1. NEW REINFORCING SHALL MATCH THE EXISTING SIZE AND SPACING. FOR BIDDING ASSUME WWR 4X4 - W4.0 X W4.0 & #4 X CONT. RUNNING PARALLEL TO TEE-TO-TEE-JOINT.
    - D. VERIFY THAT LOOSE SMOOTH BAR IS POSITIONED 3/8" MIN. TO 3/4" MAX. DOWN FROM TOP OF CONNECTOR.
    - E. LOOSE BAR MUST BE INSTALLED REASONABLY FLAT AND PLACED WITH SETTING TOOL.
    - F. REWELD CONNECTION AS SHOWN AT EACH SIDE OF PLATE. DO NOT OVERTILL.
  2. REPAIR TYPE TTC3: REPAIR FULL-DEPTH HALO CRACK ADJACENT TO CONNECTION PER REPAIR TYPE EI. ASSUME 2 LF X 5" NOM. DEPTH.

**3**  
**R2.2** **REPAIR TYPE TTC1-4 TEE TO TEE CONNECTION REPAIR**  
**SCALE: N.T.S.**



- NOTES:**
1. FOR BIDDING PURPOSES, ASSUME REPLACEMENT OF 12 LF OF BARRIER CABLE. SPLICE CABLE TO THE EXISTING CABLE AND REPLACE THE END HARDWARE IN KIND. THE END HARDWARE SHALL BE HOT DIPPED GALVANIZED.

**7**  
**R2.2** **REPAIR TYPE BCR BARRIER CABLE REPAIR**  
**SCALE: N.T.S.**



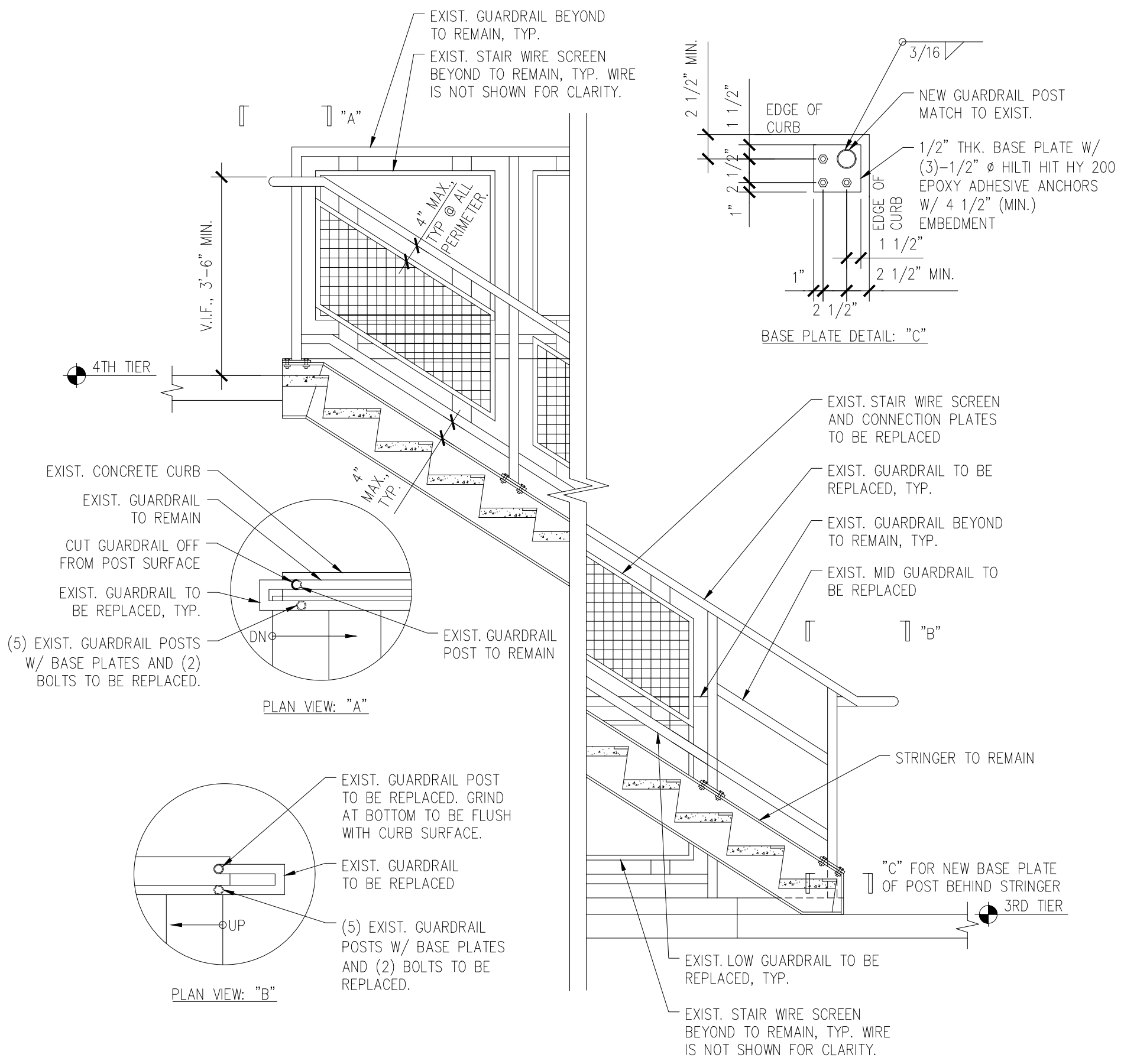
- REPAIR PROCEDURES:**
1. SEE REPAIR PROCEDURES ON REPAIR TYPE FCS FOR ADDITIONAL INFO.
  2. UNIT PRICE INCLUDES PER LF OF SEALANT REPLACEMENT. TRAFFIC DECK MEMBRANE AND LINE STRIPING ARE NOT INCLUDED.
  3. REPAIR TYPE SR APPLIES TO HORIZONTAL FLOOR JOINTS INCLUDING CONTROL, CONSTRUCTION, AND COVE JOINTS; JOINT SIZE IS PER REPAIR TYPE FCS.
  4. REPAIR TYPE VSR APPLIES TO VERTICAL JOINTS. USE NON-SAG SEALANT AND BACKER RODS AT VERTICAL JOINTS. JOINT SEALANT PROFILE SHALL BE 1" WIDE X 1/2" MINIMUM THICKNESS; FIELD VERIFY ACTUAL WIDTH AND ADJUST THICKNESS BASED ON MANUFACTURER'S WRITTEN REQUIREMENTS.

**4**  
**R2.2** **REPAIR TYPE SR & VSR SEALANT REPLACEMENT (HORIZONTAL & VERTICAL)**  
**SCALE: N.T.S.**

NO.	DESCRIPTION	DATE

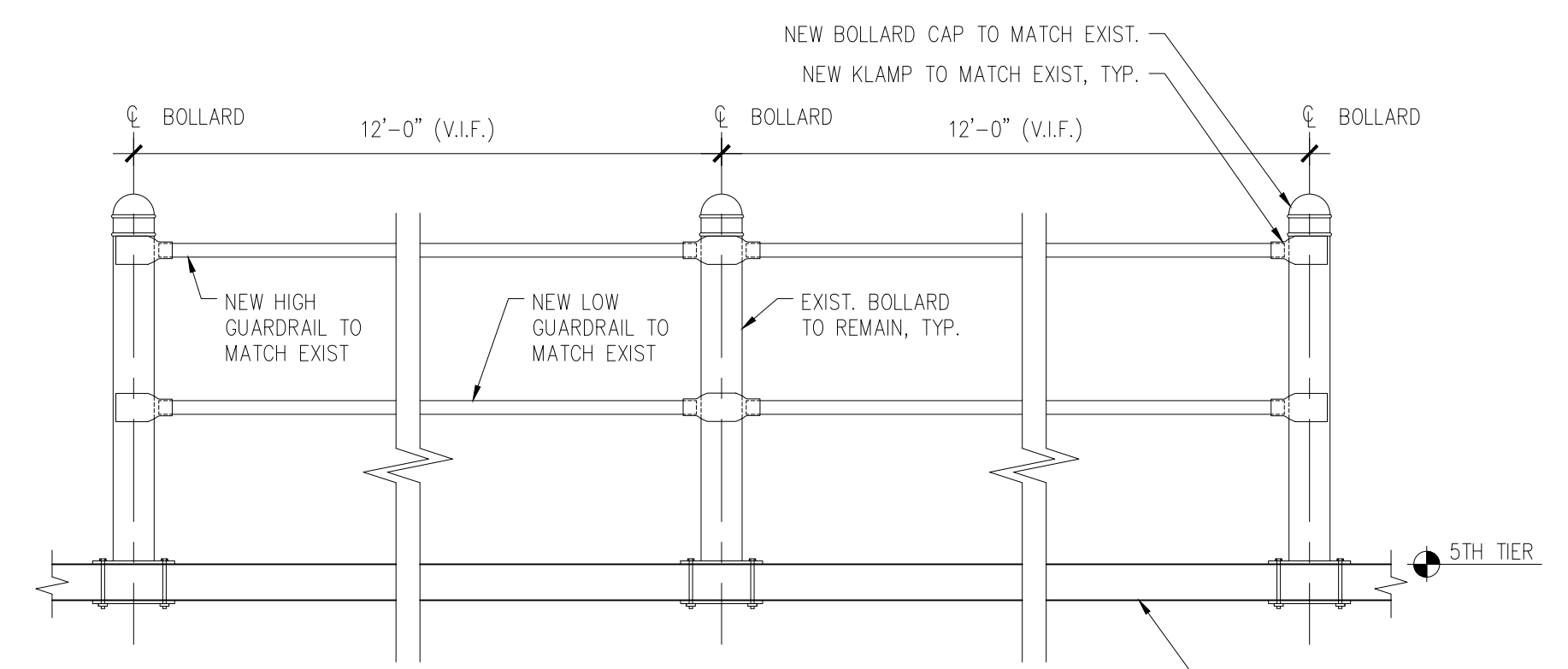
DRAWN:	BJ
REVIEWED:	JCR
DATE:	04/22/2022



NOTE:  
1. GUARDRAIL ON WEST SIDE ONLY IS REPLACED.  
2. ALL REPLACED STEEL SHALL BE GALVANIZED AND PAINTED.  
3. ALL SIZE AND DIMENSION SHALL BE MATCHED WITH EXISTING, UNO.

**REPAIR TYPE SRR  
STAIR RAILING REPLACEMENT**

1  
R2.3 SCALE: N.T.S.



NOTE:  
1. ALL NEW STEEL SHALL BE GALVANIZED AND PAINTED TO MATCH EXISTING.  
2. ALL SIZE AND DIMENSION SHALL BE MATCHED WITH EXISTING, UNO.

**REPAIR TYPE GRR  
GUARDRAIL REPAIR**

2  
R2.3 SCALE: N.T.S.

PROJECT NO.  
NBR22110.00  
PROJECT

**HINSON  
GARAGE  
2022  
RESTORATION**

Camden, NJ

SUBMISSIONS / REVISIONS  
ISSUE FOR BID  
04/22/2022

NO.	DESCRIPTION	DATE

DRAWN: BJ  
REVIEWED: JCR  
DATE: 05/06/2022

SHEET TITLE:  
REPAIR DETAILS

SHEET NO.

**R2.3**