HINSON GARAGE 2022 RESTORATION Camden, NJ



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Owner :

Parking Authority of the City of Camden

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Location Map





GENERAL NOTES

- A. GENERAL CONDITIONS
 - 1. IT IS THE INTENT OF THE PLANS TO ADEQUATELY DESCRIBE AND INDICATE AREAS THAT REQUIRE RESTORATION WORK. IN THE EVENT IT BECOMES NECESSARY TO ALTER THE PLANS FOR THE BEST INTEREST OF THE PROJECT DUE TO CIRCUMSTANCES NOT KNOWN AT THE TIME OF SURVEY, WORK QUANTITIES MAY BE ADJUSTED IN ACCORDANCE WITH THE ENGINEER AND OWNER'S APPROVAL.
 - 2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL REPORT IN WRITING TO THE ENGINEER ALL DISCREPANCIES WITH RESPECT TO DRAWINGS & SPECIFICATIONS.
 - 3. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL BRACING, SHEETING, AND SHORING AS REQUIRED. PROVIDE TEMPORARY SUPPORT WHERE REPAIR WORK WILL DEGRADE THE INTEGRITY OF THE STRUCTURE INCLUDING CONNECTIONS. SHORING SHALL BE DESIGNED, PREPARED, SIGNED, AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY, HIRED BY THE CONTRACTOR, SHORING ENGINEER SHALL FIELD VERIFY ALL DIMENSIONS, CONNECTION TYPES, ETC. AS NEEDED TO DETERMINE ALL APPLICABLE LOADING AND LOAD PATHS.
 - 4. CONTRACTOR IS REQUIRED TO INSTALL A TEMPORARY DUST ENCLOSURE AT EACH AREA OF WORK TO PREVENT DUST & ODOR MIGRATION. FOR BIDDING PURPOSES, ASSUME A CONTINUOUS PLASTIC SEAL AT THE PERIMETER OF EACH WORK AREA. ALL DUST/DEBRIS FROM THE WORK SHALL BE CLEANED/REMOVED PRIOR TO REMOVING TEMPORARY ENCLOSURE.
 - 5. CONDUCT A PRECONSTRUCTION MEETING PRIOR TO COMMENCING WORK, HOLD PREINSTALLATION MEETINGS PRIOR TO EACH PHASE OF THE PROJECT, AND HOLD REGULAR COORDINATION MEETINGS.
 - 6. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONDITION WHICH MAY ENDANGER THE STABILITY AND INTEGRITY OF, CAUSE DISTRESS TO, OR COMPROMISE THE DURABILITY OF THE STRUCTURE.
 - 7. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THE DRAWINGS. IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVFRN.
 - 8. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS, AND STANDARDS OF ALL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
 - 9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SITE SAFETY.
 - 10. THE FOLLOWING CODES AND STANDARDS APPLY TO THE DESIGN AND CONSTRUCTION OF THIS PROJECT:
 - a. "INTERNATIONAL BUILDING CODE" NJ EDITION (IBC 2018) INTERNATIONAL CODE COUNCIL b. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7–16) – AMERICAN SOCIETY OF CIVIL ENGINEERS
 - c. "BUILDING CODE REQUIREMENTS FOR STUCTURAL CONCRETE" (ACI 318–14) AMERICAN CONCRETE INSTITUTE
 - d. "MANUAL OF STEEL CONSTRUCTION" (14TH EDITION) AMERICAN INSTITUTE OF STEEL CONSTRUCTION e. "ACI MANUAL OF CONCRETE PRACTICE" (2016; PART 1 THROUGH PART 5) - AMERICAN CONCRETE INSTITUTE
 - f. "ACI CONCRETE REPAIR MANUAL" LATEST EDITION AMERICAN CONCRETE INSTITUTE g. "CODE REQUIREMENTS FOR ASSESSMENT, REPAIR AND REHABILITATION OF EXISTING CONCRETE STRUCTURES" (ACI 562–16) – AMERICAN CONCRETE INSTITUTE
 - h. "CRSI HANDBOOK" (2008) CONCRETE REINFORCING STEEL INSTITUTE
 - i. "STRUCTURAL WELDING CODE" (LATEST EDITION) AMERICAN WELDING SOCIETY
 - 11. IF THE BID SCHEDULE INCLUDES COLD WEATHER MONTHS, INCLUDE COLD WEATHER PROVISIONS AS REQUIRED TO COMPLETE THE WORK.

B. PHASING OF WORK & WORK RESTRICTIONS

- 1. BIDDERS SHALL INCLUDE A PRELIMINARY SITE UTILIZATION/PHASING PLAN WITH THEIR BIDS.
- 2. THE SUCCESSFUL CONTRACTOR SHALL SUBMIT COMPOSITE SITE UTILIZATION/PHASING PLANS FOR APPROVAL PRIOR TO MOBILIZATION. THE CONTRACTOR SHALL COORDINATE CLOSELY WITH THE ENGINEER AND THE OWNER WHILE DEVELOPING, MAINTAINING, AND REVISING THE PLANS AS NECESSARY. THE GARAGE WILL BE PARTIALLY OCCUPIED BY VEHICLES AND PEDESTRIANS DURING CONSTRUCTION. THE COMPOSITE PLANS SHALL SHOW TEMPORARY FACILITIES, TEMPORARY UTILITY AND CONNECTIONS, STAGING AND STORAGE AREAS, DELIVERIES. SITE ACCESS, TEMPORARY VEHICLE AND PEDESTRIAN CIRCULATION, CONSTRUCTION PHASING, SHORING, TEMPORARY FENCING, BARRICADES, SIGNAGE, FLAGMEN, ETC.
- 3. THE INTENT OF THE CONTRACTOR'S PHASING PLAN SHOULD BE TO DIVIDE THE WORK INTO THE LEAST NUMBER OF PHASES WHILE MAINTAINING VEHICLE ACCESSIBILITY TO ALL AREAS THAT ARE NOT BEING WORKED ON. RAMPS ARE ASSUMED TO BE ABLE TO BE SPLIT INTO TWO PHASES.
- 4. ALL WORK CAN BE COMPLETED EITHER DURING THE DAY OR AT NIGHT, UNLESS NOTED OTHERWISE BY THE OWNER OR GARAGE OPERATOR OR BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. COMPLY WITH WORK HOUR RESTRICTIONS AND NOISE ORDINANCE OF THE AUTHORITY HAVING JURISDICTION.
- 5. ONE ELEVATOR MUST REMAIN IN SERVICE AND BE ACCESSIBLE AT ALL TIMES, UNLESS AN ALTERNATE ACCESSIBILITY PLAN IS SUBMITTED TO AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 6. STAIR TOWERS MUST REMAIN IN SERVICE AND BE ACCESSIBLE AT ALL TIMES. UNLESS AN ALTERNATE MEANS OF EGRESS PLAN IS SUBMITTED TO AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 7. THE CONTRACTORS MAY TAKE A MAXIMUM OF 50 PARKING SPACES OUT OF SERVICE AT ANY TIME, WITH THE EXCEPTION OF EVENTS.
- 8. COMPLY WITH LIMITATIONS ON USE OF PUBLIC STREETS AND WITH OTHER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- 9. THE CONTRACTOR SHOULD COORDINATE THE SHUTDOWN OF AREAS FOR THE APPLICATION OF WATERPROOFING MATERIALS WITH THE EXTENDED WEATHER FORECAST TO AVOID WEATHER-RELATED DELAYS.
- 10. PARKING AND PEDESTRIAN ACCESS AT THE LEVEL BELOW DEMOLITION WORK AND/OR STRUCTURAL REPAIRS SHALL BE TAKEN OUT OF SERVICE UNTIL REPAIRS ARE COMPLETE. PARKING AND PEDESTRIAN ACCESS AT THE LEVEL BELOW WATERPROOFING WORK SHALL BE TAKEN OUT OF SERVICE UNTIL WORK IS COMPLETE, UNLESS CONTRACTOR TAKES APPROPRIATE ACTIONS TO PROTECT PEDESTRIANS AND VEHICLES FROM HARM/DAMAGE. THE APPROPRIATE ACTION PLAN SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL.
- 11. REFER TO SPECIFICATION SECTION 011000 SUMMARY FOR ADDITIONAL REQUIREMENTS AND RESTRICTIONS.

C. MEASUREMENT AND RECORD DRAWINGS

- 1. DO NOT SCALE DRAWINGS. VERIFY ALL DRAWING DIMENSIONS IN THE FIELD.
- 2. CONTRACTOR SHALL MEASURE TO THE NEAREST INCH AND RECORD THE REPAIR AREAS AND QUANTITIES PERFORMED.
- 3. ELECTRONIC COPIES OF THE DRAWINGS SHOWING THE ACTUAL SHAPE, LOCATION, AND SIZE OF THE REPAIRS AND A REPAIR TABULATION SPREADSHEET SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER AT THE END OF EACH PHASE OF THE PROJECT AND WITH EACH PAYMENT APPLICATION.
- 4. AT THE PROJECT CONCLUSION, SUBMIT ONE SET OF REPRODUCIBLE RECORD DRAWINGS IN A NEAT AND ORDERLY FASHION TO THE OWNER & ENGINEER SHOWING ALL REPAIRS PERFORMED. PROVIDE ONE HARD COPY AND AN ELECTRONIC COPY IN CAD OR PDF FORMAT.

- D. GENERAL PREPARATION FOR CONCRETE REPAIRS

E. CONCRETE REMOVAL

- OTHER EMBEDDED ITEMS SUCH AS CONDUITS.
- NOTES.
- F. CONCRETE (FOR REPAIRS GREATER THAN 3 INCHES THICK)
 - 1. CONCRETE SHALL MEET THE FOLLOWING CRITERIA:
 - MAXIMUM W/C RATIO OF 0.4
 - PORTLAND CEMENT CONCRETE (REGULAR OR HI-EARLY), TYPE I OR III
 - AGGREGATE TO CONFORM TO ASTM C33
 - AGGREGATE: #8, ½ INCH
 - SUPERPLASTICIZED

 - SYNTHETIC FIBER: 1.5 LB./C.Y. OF CONCRETE, MINIMUM
 - 2. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR ENGINEER'S APPROVAL. ADMIXTURES SHALL NOT BE CHANGED FROM THE APPROVED CONCRETE MIX DESIGN WITHOUT THE ENGINEER'S APPROVAL.

 - - AIR ENTRAINMENT AND SLUMP TESTS FOR EVERY BATCH.
 - 5. APPLY ACCEPTABLE BONDING AGENT PRODUCTS PER SPECIFICATION SECTION 033000. DO NOT ALLOW TO DRY BEFORE
- PLACING CONCRETE.
- SPECIFICATION SECTION 039300.

G. REINFORCEMENT

- 1. ALL NEW REINFORCEMENT SHALL COMPLY WITH ASTM A615 GR. 60.
- 2. WELDED WIRE FABRIC SHALL BE PER ASTM A185 OR A497. USE MATS ONLY, ROLL STOCK IS NOT PERMITTED.
- 3. ALL REINFORCING SHALL HAVE THE MINIMUM COVER PER ACI 318, LATEST EDITION.
- 4. ALL EXISTING EXPOSED STEEL SHALL BE COATED WITH STEEL CORROSION INHIBITING TREATMENT IN ACCORDANCE WITH SPECIFICATION SECTION 039300.

H. EMBEDDED GALVANIC ANODES

I. EPOXY INJECTION

- 1ST CRACK. 3. CRACK REPAIR MATERIALS:
 - 31 HI-MOD GEL OR EQUAL.

1. THE DRAWINGS INDICATE THE AREAS THAT HAVE BEEN DETERMINED TO REQUIRE REPAIR PER FIELD SURVEYS. CONTRACTOR SHALL SOUND SURFACES WITH HAMMER, ROD, CHAIN, OR APPROPRIATE TOOLS TO DETECT DELAMINATIONS AND SPALLS. ALL SUPPORTED STRUCTURAL ELEMENTS WITHIN THE GARAGE SHALL BE SOUNDED. THE LIMITS OF THE DELAMINATIONS SHALL BE MARKED FOR DEMOLITION. PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE REVIEWED BY ENGINEER IN THE FIELD. REPAIR QUANTITIES THAT DEVIATE FROM THAT SHOWN ON PLAN SHALL BE REPORTED IN WRITING TO THE ENGINEER AND OWNER FOR APPROVAL.

2. SAWCUT PERIMETER OF REPAIR AREA TO AVOID FEATHERED EDGES. REMOVE SPALLED AND UNSOUND CONCRETE WITHIN MARKINGS. EXTEND REPAIR AREAS WITH THE APPROVAL OF ENGINEER AND OWNER IF ADDITIONAL UNSOUND CONCRETE IS ENCOUNTERED. THE REPAIR EDGE SHALL BE EXTENDED A MINIMUM OF THREE INCHES BEYOND THE EXTENT OF CORRODED REINFORCING STEEL.

3. ALL REINFORCING IN GOOD CONDITION (SECTION LOSS LESS THAN 20%) WITHIN THE REPAIR AREA SHALL BE UNDERCUT, SANDBLASTED CLEAN, AND TREATED WITH CORROSION INHIBITING COATING MATERIALS PER SPECIFICATIONS. ALL REINFORCING WITH SECTION LOSS GREATER THAN 20% WITHIN THE REPAIR AREA SHALL BE REPLACED WITH EQUAL REINFORCEMENT; DEVELOP TENSILE STRENGTH OF REPLACEMENT REINFORCEMENT BY SPLICING TO REINFORCING IN "GOOD CONDITION" OR BY DOWELING INTO SOUND CONCRETE AT PERIMETER OF REPAIR AREA USING ADHESIVE EPOXY ANCHORING SYSTEM.

4. WATERBLAST OR SANDBLAST CAVITY SURFACES TO REMOVE ALL DEBRIS AND CONTAMINANTS. AIRBLAST AS THE FINAL STEP TO REMOVE REMAINING DEBRIS.

1. CHIPPING HAMMERS SHALL BE SIZED SO THAT UNSOUND CONCRETE CAN BE REMOVED IN AN EFFICIENT MANNER WITHOUT DAMAGING ADJACENT SOUND CONCRETE. DO NOT CUT INTO OR DAMAGE REINFORCING AND

2. CHIPPING SHALL CONTINUE UNTIL ALL UNSOUND CONCRETE HAS BEEN REMOVED PER REPAIR DETAIL SHEET

STRENGTH: 5000 PSI (MIN.)

AIR ENTRAINED: 6½±1½%

- SLUMP: 4±1 INCH (BEFORE ADDING SUPERPLASTICIZER)
- 3 GAL. OF CALCUIM NITRITE CORROSION INHIBITOR PER CU. YD. OF CONC.
- 3. CONFORM TO THE REQUIREMENTS OF ACI 301 AND ACI 318, LATEST EDITION.
- 4. THE FIELD QUALITY CONTROL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY HIRED BY OWNER:
 - COMPRESSION STRENGTH TESTS ON EVERY 50 C.Y. POUR AND IN ACCORDANCE WITH ACI 318, LATEST EDITION.

6. CONCRETE SHALL BE CONSOLIDATED AND CURED PER SPECIFICATIONS. IF CURING COMPOUND IS USED, IT SHALL BE REMOVED BY WATER-BLASTING OR SHOT-BLASTING PRIOR TO THE APPLICATION OF SURFACE WATERPROOFING MEASURES.

7. FOR CONCRETE REPAIRS LESS THAN OR EQUAL TO 3 INCHES THICK, USE CEMENTITIOUS PATCHING MATERIAL PER

REFER TO CONCRETE REPAIR DETAILS SUCH AS TYPE PFR FOR LOCATIONS WHERE ANODES ARE REQUIRED. REFER TO SPECIFICATION SECTION 039300 FOR ADDITIONAL REQUIREMENTS.

2. CONTRACTOR SHALL ONLY ORDER 10% OF REQUIRED ANODES AT BEGINNING OF PROJECT ONCE SUBMITTAL HAS BEEN APPROVED BY ENGINEER. ENGINEER WILL GIVE DIRECTION FOR THE CONTRACTOR TO ORDER ADDITIONAL ANODES AFTER THEIR USE AND NECESSITY HAS BEEN IDENTIFIED DURING THE EARLY STAGES OF THE REPAIR WORK. CONTRACTOR TO INFORM ENGINEER IF LONG LEAD TIME IS EXPECTED ON THE ANODE ORDERS.

1. REFER TO SPECIFICATION SECTION 039300 AND EPOXY INJECTION REPAIR DETAIL 9/R2.1 FOR ADDITIONAL REQUIREMENTS.

2. USE APPROPRIATE METHODS AND PLACEMENT OF INJECTION PORTS TO ASSURE COMPLETE COVERAGE OF CRACKS. REVIEW PREPARED CRACK & REPAIR PROCEDURES ON-SITE W/ ENGINEER & OWNER'S INSPECTION AGENCY PRIOR TO INJECTION OF

a. TYPE EI – CRACKS BETWEEN 1/2, 2 & 1/2": PRESSURE INJECT CRACKS W/ A HIGH-STRENGTH, VERY-LOW-VISCOSITY STRUCTURAL EPOXY (SIKADUR 35 HI-MOD LV, SIKADUR 52 OR EQUAL). SEAL CRACKS PRIOR TO INJECTION W/ SIKADUR

b. TYPE EIH – HAIRLINE CRACKS < $\frac{1}{22}$ " THAT REMAIN AFTER INJECTION OF MAJOR CRACKS: PRESSURE INJECT CRACKS W/ A HIGH-STRENGTH, SUPER LOW-VISCOSITY STRUCTURAL EPOXY (SIKADUR 55 SLV OR EQUAL). SEAL CRACKS PRIOR TO INJECTION W/ SIKADUR 31 HI-MOD GEL OR EQUAL.

- J. PENETRATING SEALER AND/OR CORROSION-INHIBITING TREATMENT
 - 1. REFER TO SPECIFICATION SECTION 079020 FOR ACCEPTABLE PENETRATING SEALERS AND SECTION 039300 FOR ACCEPTABLE PENETRATING CORROSION-INHIBITING TREATMENTS WITH OR WITHOUT INTEGRAL SEALERS.
 - 2. PROVIDE SURFACE PREPARATION OF THE FLOOR SLABS BY METHODS WHICH CAN BE PERFORMED WITHOUT DAMAGING EXISTING CONCRETE SURFACES AND IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER REQUIREMENTS.
 - 3. APPLY PRODUCTS IN ACCORDANCE WITH SPECIFICATION AND MANUFACTURER REQUIREMENTS. THE FLOOR COVERAGE RATE SPECIFIED IS MINIMUM REQUIREMENT AND SHALL BE SATISFIED ON A BAY-BY-BAY BASIS. THE APPLICATION SHALL BE INSPECTED BY MANUFACTURER'S REPRESENTATIVE AND ANY ASSOCIATED COSTS SHALL BE INCLUDED WITHIN THE BID.
- K. SEALANT
 - 1. REFER TO SPECIFICATION SECTIONS 079020 FOR ACCEPTABLE JOINT SEALANTS.
 - 2. REMOVE AND PROPERLY DISPOSE OF EXISTING SEALANT AND APPLY NEW SEALANT TO MATCH EXISTING COLOR. SAMPLES SHALL BE PROVIDED FOR ENGINEER'S & OWNER'S REVIEW AND APPROVAL.
 - 3. JOINT EDGES SHALL BE WATER-BLASTED, SANDBLASTED OR OTHERWISE CLEANED AND PREPARED PRIOR TO THE SEALANT APPLICATION.
 - 4. PRIMER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS PRIOR TO APPLICATION OF NEW SEALANT.

L. EXPANSION JOINT SYSTEMS

- 1. REFER TO SPECIFICATION SECTION 079020 FOR ACCEPTABLE EXPANSION JOINT SYSTEM AND INSTALLATION PROCEDURES.
- 2. JOINT EDGES AND BLOCKOUTS SHALL BE SANDBLASTED OR PREPARED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS PRIOR TO THE EXPANSION JOINT APPLICATION.
- M. PAINTING
 - 1. TRAFFIC MARKINGS (STRIPING AND TRAFFIC ARROWS)
 - a. CONTRACTOR SHALL REPLACE ALL TRAFFIC MARKINGS (STRIPING AND TRAFFIC ARROWS) THAT ARE WITHIN THE REPAIR WORK. THE CONTRACTOR SHALL DOCUMENT THE EXISTING LAYOUT PRIOR TO CONSTRUCTION, AND AT THE COMPLETION OF REPAIRS PROVIDE THE TRAFFIC MARKINGS TO MATCH SIZE AND LOCATION. REMOVE EXISTING PAINT BY SHOT-BLASTING.
 - 2. STEEL MEMBERS
 - a. CONTRACTOR SHALL SANDBLAST CLEAN ALL STEEL MEMBERS AT REPAIR AREAS AND LOCATIONS INDICATED TO BE PAINTED AND/OR RECEIVE FIREPROOFING.
 - b. ONCE STEEL REPAIR WORK IS COMPLETE, THE CONTRACTOR SHALL APPLY PAINT PER SPECIFICATION SECTION 099100.
- N. MECHANICAL/ELECTRICAL/PLUMBING/FIRE PROTECTION SYSTEMS, EQUIPMENT & SERVICES (MEP&FP SERVICES)
 - 1. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING MEP&FP SERVICES. CONTRACTOR SHALL REVIEW ALL REPAIR AREAS PRIOR TO COMMENCING FACH PHASE OF THE WORK AND NOTIFY ENGINEER IF REMOVAL, REPLACEMENT, OR RELOCATION OF MEP&FP SERVICES IS NECESSARY TO COMPLETE THE WORK. IF MEP&FP WORK IS NECESSARY, INCLUDE THE PROPOSED SCOPE AND ESTIMATED COST. APPROVED MEP&FP WORK SHALL BE PERFORMED BY THE CONTRACTOR OR ITS APPROVED SUBCONTRACTOR AND BILLED AGAINST THE MEP&FP SERVICES ALLOWANCE.
 - 2. EMBEDDED CONDUITS WITHIN REPAIR AREA SHALL BE LOCATED, MARKED, AND DE-ENERGIZED PRIOR TO DEMOLITION.
 - 3. SPECIAL CARE SHALL BE TAKEN TO PREVENT CLOGGING EXISTING DRAINS.
 - 4. AFTER WORK IS COMPLETE, CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY EXISTING DRAIN SYSTEMS THAT HAVE BEEN CLOGGED BY CONSTRUCTION ACTIVITIES.
- 0. EXAMINATION PRIOR TO CUTTING, DRILLING, AND CORING THROUGH STRUCTURE
 - A. DO NOT CUT, DRILL, OR CORE THROUGH ANY STRUCTURAL ELEMENT WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER, U.N.O.
 - B. THE CONTRACTOR SHALL SCAN THE CONCRETE AT ALL LOCATIONS OF PROPOSED CUTS AND PENETRATIONS TO LOCATE AND MARK ALL EMBEDDED OBJECTS INCLUDING BUT NOT LIMITED TO REINFORCING, PRESTRESS OR POST-TENSION STRANDS, CONNECTIONS, ELECTRICAL CONDUIT, AND ANY OTHER HARDWARE/EQUIPMENT. SCANNING SHALL BE PERFORMED BY A CERTIFIED TECHNICIAN USING A PACHOMETER OR GROUND PENETRATING RADAR (GPR) TYPE SCANNER. CALIBRATE THE SCANNER AT THE BEGINNING OF EACH SHIFT AND WHEN CONDITIONS CHANGE. LOCATE AT LEAST THREE REINFORCING BARS USING THE SCANNER, AND HAMMER DRILL TEST HOLES TO DETERMINE DEPTH OF COVER. CALIBRATE SCANNER USING THE DEPTH OF COVER MEASUREMENTS.
- C. ADJUST LOCATIONS OF CUTS AND PENETRATIONS AS REQUIRED TO AVOID EMBEDDED OBJECTS.
- D. SUBMIT SCANNING REPORT(S), INCLUDING PHOTOGRAPHS AND SCALED DRAWINGS AND/OR SKETCHES, TO ENGINEER FOR APPROVAL. ALLOW SEVEN DAYS FOR ENGINEER TO REVIEW AND APPROVE OR COMMENT ON THE PROPOSED CUTS AND PENETRATIONS. ADJUST THE LOCATIONS AS DIRECTED BY THE ENGINEER.
- E. USE HAMMER DRILLS WHEN POSSIBLE; DO NOT CORE DRILL UNLESS THE SCANNING OPERATION HAS CLEARLY SHOWN THAT THE AREA IS FREE OF EMBEDDED OBJECTS.
- F. DO NOT CUT THROUGH OR DAMAGE THE EMBEDDED OBJECTS INCLUDING BUT NOT LIMITED TO REINFORCING, PRESTRESS OR POST-TENSION STRANDS, CONNECTIONS, ELECTRICAL CONDUIT, AND ANY OTHER HARDWARE/EQUIPMENT.

P. MASONRY REPOINTING

- 1. THE ASSUMED MASONRY SIZE FOR REPAIR TYPE M1 & M2 SHALL BE 8"X8"X16" NOMINAL WITH 3/8" MORTAR JOINTS. FIELD VERIFY AND MATCH THE TYPE, SIZE AND FINISH OF THE EXISTING MASONRY.
- 2. REFER TO SPECIFICATION SECTION 040120.63 FOR MASONRY REPAIR/REPLACEMENT REQUIREMENTS.
- 3. REFER TO SPECIFICATION SECTION 040420.64 AND THE FOLLOWING FOR MASONRY REPOINTING REQUIREMENTS:
- a. CLEAN OUT OLD MORTAR. RAKE OUT DAMAGED, POWDERY, OR DISINTEGRATING MORTAR WITH A COLD CHISEL OR SCREWDRIVER. BRUSH OUT ANY BRICK DUST.
- b. USE A SPONGE, BRUSH, OR RAG TO MOISTEN THE REPAIR AREA WITH WATER.
- c. USE MORTAR AND A GROUT BAG AND APPLY FRESH MORTAR INTO THE JOINTS. GO BACK OVER THE JOINTS WITH A POINTING TROWEL AND TRIM OFF THE EXCESS. BE CAREFUL TO AVOID SMUDGING AND STAINING MORTAR ON TO THE FACE OF THE BRICKS.
- d. AS THE MORTAR STARTS TO SET, SHAPE THE MORTAR JOINTS TO MATCH THE LOOK OF THE ORIGINAL, USING AN APPROPRIATE SHAPED TOOL. WHEN THE MORTAR IS ALMOST SET, USE A BRUSH AND LIGHTLY BRUSH OFF ANY EXCESS STILL ON THE MASONRYWORK.
- e. DO NOT CHIP, CUT, OR REMOVE THE MASONRY'S SKIN WHICH WILL ACCELERATE DECAY.
- f. REPOINT ONLY WHEN TEMPERATURES REMAIN BETWEEN 40 AND 90 DEGREES FAHRENHEIT.
- g. PROVIDE MOCKUP SAMPLE OF REPOINTING IN FIELD FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.



CONSULTANT

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PROFESSIONAL SEAL

PROJECT NO. NBR22110.00 PROJECT

2022 RESTORATION

Camden, NJ

SUBMISSIONS / REVISIONS			
ISSUE FO	R BID		
04/22/20	100		
04/22/20			
NO. DESCI	RIPTION	DATE	
	DRAWN:	BJ	
+	REVIEWED:	JCR	
NORTH	DATE:	04/00/2002	
		04/22/2022	
GENERAI	NOTES		

SHEET NO.

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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.

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

LUMP SUM WORK ITEMS:

- 1. GENERAL CONDITIONS (REFER TO PROJECT SPECIFICATIONS)
- 2. PLUMBING SYSTEM CLEAN-UP PER GENERAL NOTE N/RO.1
- 3. APPLICATION OF TRAFFIC MARKINGS (STRIPING AND TRAFFIC ARROWS) WITHIN REPAIR AREAS.
- 4. REPLACE MISSING FIRE EXTINGUISHER AT ELEVEN (11) LOCATIONS.
- 5. REPLACE 6 LF OF CORRODED CONDUIT TO MATCH EXISTING. SEE LOCATION ON THIRD TIER PLAN.
- 6. REPLACE STAIR NOSING TO MATCH EXISTING AT TWO (2) LOCATIONS. SEE LOCATION ON FIFTH TIER PLAN.
- 7. ALL OTHER MISCELLANEOUS ITEMS SPECIFIED IN PROJECT SPECIFICATIONS, GENERAL NOTES SHEET R0.1, AND ALL

REPAIR DETAILS. 8. ALL COSTS ASSOCIATED WITH NJT TEMPORARY ACCESS PERMIT PER SPECIFICATION 000012 FOR WORK ADJACENT NJ TRANSIT LIGHT RAIL, INCLUDING FLAGGING PROTECTION AND OTHER SERVICES.



PARTIAL DEPTH FLOOR REPAIR	FLOOR REPAIR PER PARTIAL DEPTH FLOOR REPAIR
OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR	FFR FULL DEPTH FLOOR REPAIR TTS TEE-TO-TEE SEALANT REPLACEMENT SR SEALANT REPLACEMENT
FULL DEPTH FLOOR REPAIR	FCS STATIC FLOOR CRACK REPAIR E.J EXPANSION JOINT REPLACEMENT
CONCRETE OVERLAY REPAIR	EJN EXPANSION JOINT NOSING REPAIR EI EPOXY INJECTION
STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION	COR CONCRETE OVERLAY REPAIR TTC1 TEE-TO-TEE CONNECTION REPAIR CRB CURB REPAIR
TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT	PEJ PRE-MOLD EXPANSION JOINT REPAIR
	OVERHEAD / SOFFIT REPAIR
	OBR OVERHEAD BEAM REPAIR
REPAIR AREAS ON PLAN ARE DEPICTED ON THE FOLLOWING SURFACES:	OSR OVERHEAD SURFACE REPAIR EI EPOXY INJECTION
	VERTICAL REPAIR
PLAN ABOVE OVERHEAD / SOFFIT PLAN FLOOR	VRVERTICAL REPAIRHRHAUNCH REPAIRVSRVERTICAL SEALANT REPLACEMENTEIEPOXY INJECTIONBCRBARRIER CABLE REPAIRRPHREPAINTING HANDRAILM1MASONRY REPOINTINGM2MASONRY REPAIR
	PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR FULL DEPTH FLOOR REPAIR CONCRETE OVERLAY REPAIR STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT OR SURFACES:

ABBREVIATIONS:	
A.B.	ANCHOR BOLTS
A.F.F.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ARCH.	ARCHITECT
BET.	BETWEEN
BIT.	BITUMINOUS
BOTT.	BOTTOM
BRG.	BEARING
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT/
	CONSTRUCTION JOINT
	CLEAR
	CONSTRUCTION MANAGER
	CONCRETE MASONRY LINIT
COI	
	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
	DEFORMED BAR ANCHOR
DET	
	DIAMETER
	DIMENSION
DN	DOWN
	DRAWING(S)
(F)	
EA.	
L.B.F.	ELEVATION BOTTOM OF FOUTING
L.D.M.	ELEVATION DUTTOM OF PIER
	ELEVATION FINISHED CRADE
E.I.G.	ELEVATION TINISTLU GRADE
ELEU.	ELECTRICAL
E. T.D.	ELEVATION TOP OF DUE OR
L.1.0.	
FTF	ELEVATION TOP OF FOOTING
E. T.I	ELEVATION TOP OF LEDGE
E. T.P.	ELEVATION TOP OF PIER
	ELEVATION TOP OF DECAST
L. I. F / C.	ELEVATION TOP OF SLAP
E.I.S.	ELEVATION TOP OF SLAD
	ELEVATION TOP OF WALL
	EACH WAY FACH FACF
E.W.P.	ELEVATION WORKING POINT
E.W.F.	
ENI. ED	
F.F.	
F F	FAR FACE
FDN	FOUNDATION
FIN	FINISH
FI /FIR	FLOOR
FTG	FOOTING
ι 10. CΔ	GALIGE
GALV	
G R	GRADE REAM
с. С.С.	
GR	GRADE
G W R	GYPSIIM WALL ROARD
GPR	GROUND PENETRATION RADAR
O 1 13	

H.A.S. H.M. HOR. HT. H.V.A.C. I.D. INFO. INSUL. INT. INV. LBS. LIN. MAX. MECH. MFR. MIN. MISC. MSB MTL. (N) N.F. N.I.C. N.S.N.S. N.T.S. 0.C., 0/C 0.D. 0.H. P/C PSI PSF P/T R.D. REINF. REQ'D RM. R.O. SCHED. SECT. SHT. SIM. S.O.G. SPECS. SQ. STD. STL. Т&В T.B.D. TYP. U.N. VERT. V.I.F. W/ W/O W.P. WT. WWF WWR

HEADED ANCHOR STUDS HOLLOW METAL HORIZONTAL HEIGHT HEATING, VENTILATION & AIR CONDITIONING INSIDE DIAMETER INFORMATION INSULATION INTERIOR INVERT JOINT POUNDS LINEAL MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MEDIUM SAND BLAST METAL NEW NEAR FACE NOT IN CONTRACT NON-SHRINK, NON-STAIN NOT TO SCALE ON CENTERS OUTSIDE DIAMETER OPPOSITE HAND PRECAST CONCRETE POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT POST-TENSIONED ROOF DRAIN REINFORCEMENT/REINFORCING REQUIRED ROOM ROUGH OPENING SCHEDULE SECTION SHEET SIMILAR SLAB-ON-GRADE SPECIFICATIONS SQUARE STANDARD STEEL TOP AND BOTTOM TO BE DETERMINED TYPICAL UNLESS NOTED VERTICAL VERIFY IN FIELD WITH WITHOUT WORKING POINT WEIGHT WELDED WIRE FABRIC

WELDED WIRE REINFORCEMENT



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HINSON GARAGE 2022 RESTORATION

Camden, NJ

SUBMI			
1550 04/2	22/20	22	
NO.	DESCR	IPTION	DATE
	ADDEN	DUM #1	05/06/2022
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SHEET	TITLE: OPE OF	- WORK	

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GROUND TIER RESTORATION PLAN R1.1 SCALE : 1/16" = 1' -0"

		LEGE
FLOOR REPAIR		PARTIAL DEPTH F OR CURB REPAIR
REPAIR (XX-X) (#) # OF LOCATIONS PER REFERENCE		OVERHEAD SURF OR OVERHEAD BE
REFERENCE QUANTITY		FULL DEPTH FLOO
OVERHEAD / SOFFIT REPAIR		CONCRETE OVER
REPAIR TYPE OF $XX - X$ (#) # OF LOCATIONS PER REFERENCE	\sim	STATIC FLOOR CF OR EPOXY INJECT
REFERENCE QUANTITY		TEE-TO-TEE SEAL OR SEALANT REP
REPAIR TYPE OF REFERENCE XX - X (#) REFERENCE QUANTITY	REPAIR A FOLLOWI	AREAS ON PLAN ARE NG SURFACES:
		PLAN ABOVE
		OVER
		PLAN FLOO

PROJECT HINSON GARAGE 2022 RESTORATION	
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DRAWN:	BJ
	04/22/2022
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SECOND TIER RESTORATION PLAN R1.2 SCALE : 1/16" = 1' -0"

FLOOR REPAIR	
REPAIR (XX-X) (#) REFERENCE	
REFERENCE QUANTITY	
OVERHEAD / SOFFIT REPAIR	
REPAIR TYPE OF X - X (#) REFERENCE	\sim
REPAIR TYPE OF REFERENCE XX - X (#) REFERENCE QUANTITY	REPAIR AR FOLLOWIN
	•
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		Camden, NJ
		SUBMISSIONS / REVISIONS ISSUE FOR BID 04/22/2022 NO. DESCRIPTION ADDENDUM #1
LEGEND		
PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR FULL DEPTH FLOOR REPAIR CONCRETE OVERLAY REPAIR STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT	FLOOR REPAIR PFR PARTIAL DEPTH FLOOR REPAIR FFR FULL DEPTH FLOOR REPAIR TTS TEE-TO-TEE SEALANT REPLACEMENT SR SEALANT REPLACEMENT FCS STATIC FLOOR CRACK REPAIR EJ EXPANSION JOINT REPLACEMENT EJN EXPANSION JOINT REPLACEMENT EI EPOXY INJECTION COR CONCRETE OVERLAY REPAIR TTC1 TEE-TO-TEE CONNECTION REPAIR CRB CURB REPAIR PEJ PRE-MOLD EXPANSION JOINT REPAIR OVERHEAD / SOFFIT REPAIR OBR OVERHEAD BEAM REPAIR OSR OVERHEAD SURFACE REPAIR	
REAS ON PLAN ARE DEPICTED ON THE IG SURFACES:	EI EPOXY INJECTION	NORTH DATE:
PLAN ABOVE OVERHEAD / SOFFIT PLAN FLOOR	VRVERTICAL REPAIRHRHAUNCH REPAIRVSRVERTICAL SEALANT REPLACEMENTEIEPOXY INJECTIONBCRBARRIER CABLE REPAIRRPHREPAINTING HANDRAILM1MASONRY REPOINTINGM2MASONRY REPAIR	SHEET TITLE: SECOND TIER RESTORATION PLAN SHEET NO.

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

	LEGEND
FLOOR REPAIR	PARTIAL DEPTH FLOOR REPAIR
REPAIR (XX-X)(#) # OF LOCATIONS PER REFERENCE	OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR
REFERENCE QUANTITY	FULL DEPTH FLOOR REPAIR
OVERHEAD / SOFFIT REPAIR	CONCRETE OVERLAY REPAIR
REPAIR TYPE OF LOCATIONS PER (#) REFERENCE	STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION
REFERENCE QUANTITY	TEE-TO-TEE SEALANT REPLACE OR SEALANT REPLACEMENT
REPAIR TYPE OF REFERENCE XX - X (#) REFERENCE QUANTITY	REPAIR AREAS ON PLAN ARE DEPICTED C FOLLOWING SURFACES:
	PLAN ABOVE
	OVERHEAD / SOFFIT
	Ψ

	DRAWN:	BJ	
	REVIEWED:	JCR	
NORTH	DATE:	04/22/2022	
SHEET TITLE:			
THIRD TIER			
RESTORATION PLAN			
SHEET NO.			
R1.3			

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	PARTIAL DEPTH FLOOR REPAIR		
	OR CURB REPAIR	PFR	PARTIAL DEPTH FLOOR REPAIR
$\overline{\mathbf{N}}$	OVERHEAD SURFACE REPAIR	FFR	FULL DEPTH FLOOR REPAIR
711	OR OVERHEAD BEAM REPAIR	TTS	TEE-TO-TEE SEALANT REPLACEMENT
~~		SR	SEALANT REPLACEMENT
**	FULL DEPTH FLOOR REPAIR	FCS	STATIC FLOOR CRACK REPAIR
		EJ	EXPANSION JOINT REPLACEMENT
	CONCRETE OVERLAY REPAIR	EJN	EXPANSION JOINT NOSING REPAIR
		El	EPOXY INJECTION
_		COR	CONCRETE OVERLAY REPAIR
-		TTC1	TEE-TO-TEE CONNECTION REPAIR
	OK EFOXT INJECTION	CRB	CURB REPAIR
	TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT	PEJ	PRE-MOLD EXPANSION JOINT REPAIR
		OVERH	IEAD / SOFFIT REPAIR
.OWI	NG SURFACES:		
		VERTIC	CAL REPAIR
		VR	VERTICAL REPAIR
	FLANADOVL	HR	HAUNCH REPAIR
т	OVERHEAD / SOFFIT	VSR	VERTICAL SEALANT REPLACEMENT
		EI	EPOXY INJECTION
		BCR	BARRIER CABLE REPAIR
	PLAN N FLOOR	RPH	REPAINTING HANDRAIL
Y	•	M1	MASONRY REPOINTING
		M2	MASONRY REPAIR

- PARTIAL DEPTH FLOOR REPAIR OR CURB REPAIR
- LEGEND

FLOOR REPAIR

- **ISOMETRIC**

- FIFTH TIER FOURTH TIER THIRD TIER SECOND TIER ____ GROUND TIER

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

	PARTIAL DEPTH FLOOR REPAIR
	OR CURB REPAIR
	OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR
	FULL DEPTH FLOOR REPAIR
	CONCRETE OVERLAY REPAIR
\sim	STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION
	TEE-TO-TEE SEALANT REPLACEMENT OR SEALANT REPLACEMENT
REPAIR A FOLLOWI	REAS ON PLAN ARE DEPICTED ON THE NG SURFACES:
	PLAN ABOVE
	OVERHEAD / SOFFIT
	PLAN FLUUR

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FOURTH T RESTORA	IER ΓΙΟΝ PLAN	
SHEET TITLE:		
NORTH	DATE:	04/22/2022
	REVIEWED:	JCR

DRAWN:

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VR VERTICAL REPAIR HR HAUNCH REPAIR VSR VERTICAL SEALANT REPLACEMENT EI EPOXY INJECTION

EI EPOXY INJECTION VERTICAL REPAIR

BCR BARRIER CABLE REPAIR

RPH REPAINTING HANDRAIL

M1 MASONRY REPOINTING M2 MASONRY REPAIR

OBR OVERHEAD BEAM REPAIR OSR OVERHEAD SURFACE REPAIR

OVERHEAD / SOFFIT REPAIR

CRB CURB REPAIR PEJ PRE-MOLD EXPANSION JOINT REPAIR

COR CONCRETE OVERLAY REPAIR TTC1 TEE-TO-TEE CONNECTION REPAIR

EI EPOXY INJECTION

EJN EXPANSION JOINT NOSING REPAIR

EJ EXPANSION JOINT REPLACEMENT

FCS STATIC FLOOR CRACK REPAIR

SR SEALANT REPLACEMENT

FFRFULL DEPTH FLOOR REPAIRTTSTEE-TO-TEE SEALANT REPLACEMENT

PFR PARTIAL DEPTH FLOOR REPAIR

FLOOR REPAIR

	LEGEND	
FLOOR REPAIR	PARTIAL DEPTH FLOOR REPAIR	२
REPAIR (#) REFERENCE	OVERHEAD SURFACE REPAIR OR OVERHEAD BEAM REPAIR	
REFERENCE QUANTITY	FULL DEPTH FLOOR REPAIR	
OVERHEAD / SOFFIT REPAIR	CONCRETE OVERLAY REPAIR	
REPAIR TYPE OF XX-X (#) REFERENCE	STATIC FLOOR CRACK REPAIR OR EPOXY INJECTION	
	TEE-TO-TEE SEALANT REPLAC OR SEALANT REPLACEMENT	EMENT
REPAIR TYPE OF REFERENCE (#) # OF LOCATIONS PER REFERENCE QUANTITY	REPAIR AREAS ON PLAN ARE DEPICTED ON THE FOLLOWING SURFACES:	
	PLAN ABOVE	
	OVERHEAD / SOFFIT	
	PLAN FLOOR	
		_

FLOOR REPAIR		
PFR	PARTIAL DEPTH FLOOR REPAIR	
FFR	FULL DEPTH FLOOR REPAIR	
TTS	TEE-TO-TEE SEALANT REPLACEMENT	
SR	SEALANT REPLACEMENT	
FCS	STATIC FLOOR CRACK REPAIR	
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

OVERHEAD / SOFFIT REPAIR

VERTICAL REPAIR

VR VERTICAL REPAIR

EI EPOXY INJECTION BCR BARRIER CABLE REPAIR

RPH REPAINTING HANDRAIL M1 MASONRY REPOINTING

M2 MASONRY REPAIR

HR HAUNCH REPAIR

OBR OVERHEAD BEAM REPAIR OSR OVERHEAD SURFACE REPAIR EI EPOXY INJECTION

VSR VERTICAL SEALANT REPLACEMENT

LEGEND

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REPAIR PROCEDURES:

- SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES. 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.

- MANUFACTURER'S REQUIREMENTS.
- 6. INJECT THE EPOXY WITH PROPER PRESSURE. INJECT VERTICAL CRACKS FROM BOTTOM UP UNTIL THE EPOXY LEVEL REACHES THE ENTRY PORT ABOVE. WHEN INJECTION INTO A PORT IS COMPLETE, CAP IT IMMEDIATELY.
- 7. UPON COMPLETION OF THE INJECTION PROCESS, REMOVE PORTS AND CAP SEAL BY GRINDING OR OTHER MEANS, AS APPROPRIATE.

- **REPAIR PROCEDURES:**
- 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
- OTHER SURFACE TREATMENTS SHALL BE EXCLUDED FROM THE UNIT COST.
- THE UNIT COST. SEE TYPICAL CONTROL JOINT DETAIL FOR JOINT SPACING.

REPAIR PROCEDURES:

- . SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
- A MAXIMUM SPACING OF 6" O.C. 3. UNIT OF REPAIR = Σ (A + B) x LENGTH OF REPAIR = SF.
- 4. FOR BIDDING PURPOSES, ASSUME REPAIR DEPTH = 3" NOMINAL. 5. FOR BIDDING PURPOSES, TYPE 2 SHALL BE CONSIDERED AS TYPE 1.

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

SEE REPAIR DETAIL GENERAL NOTES FOR ADDITIONAL INFORMATION. . UNDERCUTTING REQUIRED AT ALL VERTICAL AND OVERHEAD SURFACES. 3. ANY REINFORCEMENT WITH SECTION LOSS GREATER THAN 20% SHALL BE REPLACED. 4. ALL REBAR SHALL BE SANDBLASTED CLEAN AND TREATED WITH CORROSION INHIBITING COATING MATERIALS PER SPECIFICATIONS.

SEALANT AROUND PERIMETER, SEE TYPICAL CONTROL JOINT DETAIL -SAWCUT PERIMETER OF REPAIR CAVITY

CORRODED OR UNBONDED REINF. +CONCRETE SLAB -GALVANIC ANODES SPACED

AT 18" O.C. MAX. AROUND THE PERIMETER OF ALL NEW PATCHES, TYP.

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 4. INCLUDE COST OF SEALANT AT CAVITY PERIMETER/CONTROL JOINTS AND SURFACE TREATMENT (SEE NOTE 4) IN

2. FOR CAVITIES DEEPER THAN 6". PROVIDE #4 ADHESIVE DOWEL BARS WITH 135" HOOKS IN BETWEEN STIRRUPS AT

REPAIR PROCEDURES

REPAIR TYPE FFR

- 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.

UNDERCUT ALL REINF. PER TYPICAL CONCRETE REMOVAL DETAIL

- SAWCUT PERIMETER FOR APPLICATION OF REPAIR MORTAR,

- VERTICAL SURFACE

REPAIR TYPE VR

SCALE: N.T.S.

CONTINUE EXISTING TOOLED -

JOINTS THROUGH REPAIR

AREA WHERE APPLICABLE

SEALANT AROUND

CONCRETE REPAIR

PERIMETER

AREA

R2.1

VERTICAL REPAIR

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

-EXISTING CONCRETE SLAB

-EXISTING TOOLED JOINT

-NEW TOOLED JOINT, TYP.

SURFACE

1.5X MAX

1.5X MAX

1. IF NO EXISTING TOOLED JOINT IS PRESENT, DIMENSION 'X' SHALL REFER TO THE FULL WIDTH OF THE REPAIR.

2. PROVIDE TOOLED JOINTS SUCH THAT DIMENSION 'X' IS NO GREATER THAN 6 FEET AT ANY REPAIR LOCATION.

REFER TO REPAIR TYPE FCS / SR FOR TOOLED JOINT DIMENSIONS AND ADDITIONAL INFORMATION.

M. RE-PAINT PARKING STALLS & TRAFFIC MARKINGS AS REQUIRED TO MATCH EXISTING CONDITIONS.

TYPICAL CONTROL JOINT DETAIL 11 R2.1 SCALE: N.T.S.

REPAIR PROCEDURES

- SEE REPAIR DETAIL GENERAL NOTES FOR TYPICAL CONCRETE REPAIR PROCEDURES.
- PROVIDE #4 ADHESIVE DOWEL BAR WITH 90° HOOK & 4" MIN. EMBEDMENT @ 12" O.C. MAX. 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 = $(A) \times LENGTH$ OF REPAIR = SF.

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 RO.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/ 34AMPLITUDE & 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.

ADHERE NEW RANDOM ORIENTED FIBER BEARING PAD TO BOTTOM OF TEE STEM OR GIRDER USING STRUCTURAL ADHESIVE (½"x6"x6" FOR REPAIR TYPE HR); (½"x₩-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 1½" 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.

REPAIR TYPE HR AND HRG HAUNCH REPAIR DETAIL

SCALE: N.T.S

REPAIR DETAIL GENERAL NOTES: REFER TO SHEET RO.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 RO.1.

B. SAWCUT ½" 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 CORRODED, UNDERCUT REINFORCEMENT 34" OR 14" LARGER THAN THE LARGEST AGGREGATE 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 RO.1. G. DAMAGED REINFORCEMENT WITH SECTION LOSS LESS THAN 20% SHALL BE PREPARED AS INDICATED UNDER "GENERAL SURFACE PREPARATION" ON SHEET RO.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.; IF 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 DEPTH GREATER THAN 3", U.N.O. PLACE TOOLED JOINTS AND SEALANT PER "TYPICAL CONTROL JOINT DETAIL".

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CONSULTANT

PROFESSIONAL SEAL

PROJECT NO. NBR22110.00

PROJECT

HINSON 2022 RESTORATION

Camden, NJ

SUBMISSIONS / REVISIONS **ISSUE FOR BID** 04/22/2022

NO.	DESCRIPTION	DAT

REPAIR DETAILS

SHEET NO.

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

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NO. DESCR	RIPTION	DAT
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SHEET TITLE:		

SHEET NO.

SCALE: N.T.S.

CONSULTANT

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HINSON GARAGE 2022 RESTORATION

Camden, NJ

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