A circular professional engineer seal for Chakradhar Gond. The outer ring contains the name "CHAKRADHAR GOND" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the word "LICENSE" at the top, the number "No. 93753" in the center, and "STATE OF FLORIDA" at the bottom, also separated by two stars.

651 NORTH OLD COACHMAN RD
CLEARWATER, FL 33765

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES FOR THE PROJECT OR IN CONNECTION WITH THE PROJECT, ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS FOR THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THAT SPECIFIC PURPOSE INTENDED WILL BE AT OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATE, AND OWNER'S NEGLIGENCE AND/OR OMISSIONS. PENNONI ASSOCIATES ASSUMES NO LIABILITY FOR ANY CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

\$0.0



1. SCOPE OF SERVICES:

1. THE WORK IS NECESSARY TO ADDRESS WIDESPREAD CONCRETE DAMAGES.
2. THE WORK SHALL BE CLASSIFIED AS A REPAIR (SECTION 406 OF THE EXISTING BUILDING CODE.)
3. WATERPROOFING, SEALANTS AND COATINGS BY BEAM PROFESSIONALS AND PER SPECIFICATIONS WHERE APPLICABLE

1. THE DAMAGE DEPICTED ON THESE DRAWINGS WERE IDENTIFIED DURING A NON-INTRUSIVE INSPECTION IN 2025. THE INSPECTION INCLUDES SITE ACCESS FROM READILY ACCESSIBLE AREAS. THESE REPAIR PLANS SHALL NOT BE CONSIDERED AN ULTIMATE GUARANTEE OF ALL REQUIRED REPAIR WORK. THE QUANTITIES REQUIRED TO REPAIR ACTUAL DAMAGE CONDITIONS WILL BE DETERMINED AFTER A SURVEY IS COMPLETED BY THE CONTRACTOR. THE RESULTS OF THEIR SURVEY WILL BE PROVIDED TO THE ENGINEER, OWNER AND ARCHITECT BEFORE COMMENCING WITH ANY WORK.

2. THE REPAIR PLANS AND THE BOOK SPECIFICATIONS MUST BE USED TOGETHER IN A COMPLETE PACKAGE. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE SCOPE OF WORK AND MUST BE READ AND UNDERSTAND IN ITS ENTIRETY.
3. IF FIELD CONDITIONS ARE IDENTIFIED TO BE DIFFERENT FROM THE STRUCTURAL REPAIR DRAWINGS THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE IN THE FORM OF A RFI TO PENNONI PRIOR TO ATTEMPTING REPAIRS.
4. CONCRETE REPAIRS DETAILED WITHIN THE PLANS AND SPECIFICATIONS ARE INTENDED TO ADDRESS STRUCTURAL DAMAGE ONLY. COSMETIC DAMAGE AND PREPARATION FOR WATERPROOFING COVERINGS INCLUDING SEALANTS WILL BE ADDRESSED BY OTHERS.

BRUCE RECTOR
RYAN COTTON
MIKE MANNINO
DAVID ALLBRITTON
LINA TEIXEIRA
JENNIFER POIRRIER

MAYOR
COUNCILMEMBER
COUNCILMEMBER
COUNCILMEMBER
COUNCILMEMBER
CITY MANAGER

APPROVED FOR
CONSTRUCTION

CITY ENGINEER TARA KIVETT, P.E. #8661



- | | |
|------|------------------------|
| S0.0 | COVER |
| S0.1 | GENERAL SPECIFICATIONS |
| S0.2 | GENERAL SPECIFICATIONS |
| S1.0 | CLUBHOUSE LEVEL 1 PLAN |
| S1.1 | CLUBHOUSE LEVEL 2 PLAN |
| S2.0 | TRAINING BUILDING PLAN |
| S3.0 | REPAIR DETAILS |
| S3.1 | MASONRY REPAIR DETAILS |
| S3.2 | HELICAL PILE DETAILS |

G-001	GENERAL PROJECT INFORMATION
A201	OVERALL ELEVATIONS
A301	OVERALL ROOF PLAN

U:\Accounts\CLWRC\CLWRC25022 - Carpenter Field 2026 Repairs\DESIGNS\SO.0.dwg PLOTTED: 6/15/2026 5:54 PM, BY: Chakri Gondli PLOTSTYLE: Aec Standard.stb PROJECT STATUS: ----

U:\Account\CLWRC\CLWRC25022 - Carpenter Field 2025 Report\DESIGN\SO1.dwg PLOTSTYLE: McMillan.ctb PLOTDATE: 6/15/2025 5:58 PM BY: Chaiti Gendil PROJECT STATUS: —

SCOPE OF WORK

I. DESCRIPTION

THE WORK SHALL CONSIST OF CONCRETE REPAIRS, TO INCLUDE REPAIRS TO THE CONCRETE BEAMS, COLUMNS, DAMAGED HOLLOW CORE DECK EDGES AT BALCONIES, PLUS ITEMS IDENTIFIED HEREIN. IN ADDITION TO THESE REPAIRS, COSMETIC REPAIRS MAY BE COMPLETED BY THE OWNER.

II. REPAIR PROCEDURE

REPAIRS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, AND THE REFERENCED PLANS AND SPECIFICATIONS, AS AMENDED DURING THE RESTORATION PROCEDURES. NOTE: THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THE WORK AS REQUIRED TO MAINTAIN THE DAILY OPERATION OF THE BUILDING. UNLESS OTHERWISE APPROVED, THE WORK SCHEDULE WILL BE MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 7:30 A.M. AND 5:30 P.M.

III. SCOPE OF REPAIRS

- CONTRACTOR SHALL PROVIDE ALL BARRICADES, SHORING, ETC., AS NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF THE VISITORS AND WORKERS AT ALL TIMES.
- PROTECTION OF ALL AREAS AND SURFACES ADJACENT TO THE WORK TO INCLUDE, BUT NOT LIMITED TO, THE LANDSCAPING AT THE PERIMETER OF THE STRUCTURE'S GARAGE.
- OTHER ITEMS AS SPECIFIED HEREIN (OR AS SHOWN ON THE PLANS).
- QUALITY ASSURANCE:
 - THE CONTRACTOR'S FIELD SUPERINTENDENT IS TO REVIEW THE PROJECT DOCUMENTS IN TOTAL, AND SUBSEQUENTLY MEET WITH THE ENGINEER PRIOR TO STARTING THE WORK TO ADDRESS ANY QUESTIONS RELEVANT TO THE PROJECT REQUIREMENTS.
 - CONTRACTOR IS TO PREPARE MOCKUPS OF ALL SPECIFIED REPAIR PROCEDURES FOR THE ENGINEER'S REVIEW PRIOR TO PROCEEDING WITH THE WORK.
 - NOTE: CONTRACTOR IS TO INSPECT AND SOUND ALL SUSPECT DAMAGED CONCRETE PRIOR TO STARTING REPAIRS. SUBSEQUENTLY, THE CONTRACTOR WILL PROVIDE A WRITTEN REPORT TO THE ENGINEER ON THE EXTENT OF THE ESTIMATED UNIT PRICE QUANTITIES REQUIRED, WITH COST PROJECTIONS BASED ON THE CONTRACT SCHEDULE OF VALUES.
 - THE CONTRACTOR WILL PROVIDE HIS SUPERINTENDENT WITH A PACHOMETER, MULTI METER, AND AN ADEQUATE SUPPLY OF PHENOLPHTHALEIN FOR HIS USE DURING THE PROJECT.
 - OWNER WILL PROVIDE A CLERK-OF-THE-WORKS FOR COORDINATION OF DAILY ACTIVITIES WITHIN THE FACILITY, AND CONFIRMATION OF UNIT PRICE QUANTITIES, ALONG WITH OTHER DUTIES AS REQUIRED BY THE OWNER.
 - THE CONTRACTOR'S SUPERINTENDENT WILL BE REQUIRED TO MAINTAIN A DAILY LOG ON-SITE IDENTIFYING THE NUMBER OF WORKERS, WORK ACTIVITY, CHANGED CONDITIONS, WEATHER, ETC.
 - CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPREHENSIVE WORK SCHEDULE.
- ITEMS EXCLUDED IN BASE BID:
 - DESIGN OR CONSTRUCTION OF THE RAILINGS.
 - ELECTRICAL/LIGHT FIXTURES, LIGHT POLES.
 - PLUMBING, PIPING WORK, FIRE PROTECTION.
 - ASBESTOS SURVEY. (BY OWNER.)
 - REPAIR OF ANY CONCRETE SLABS-ON-GRADE.
 - STUCCO REPAIRS.
 - CCTV OR SECURITY EQUIPMENT.
 - SIGNAGE.
 - LANDSCAPE AND IRRIGATION.
 - FIRE HOSE CABINETS, AND FIRE EXTINGUISHER CABINETS.
 - DRAINAGE REVISIONS.
 - WORK ITEMS SPECIFICALLY IDENTIFIED AS "BY OWNER".

PROJECT SPECIFICATIONS

IV. DESCRIPTION OF WORK

A. SCOPE

- THE WORK REQUIRED HEREIN CONSISTS OF ALL COMPONENTS AND RELATED ACCESSORIES REQUIRED TO COMPLETE THE WORK AS LOCATED AND DETAILED ON THE DRAWINGS, AND SPECIFIED HEREIN.
- EXISTING STRUCTURE: ALL INFORMATION ON THE EXISTING STRUCTURE SHOWN ON THESE PLANS IS OBTAINED FROM THE BEST AVAILABLE SOURCES, BUT EXISTING INFORMATION DOES

NOT NECESSARILY REFLECT AS-BUILT CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON THESE PLANS AND NOTIFY THE ENGINEER OF ANY VARIATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BEFORE FABRICATING MATERIALS, AND INSTALLATION THEREOF.

B. SPECIAL CONDITIONS

- ALL COSTS RELATING TO TEMPORARY STORAGE AND PROTECTION SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL RETAIN FULL RESPONSIBILITY FOR ANY DAMAGE OR DETERIORATION CAUSED TO SURROUNDING SURFACES.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE HIS TEMPORARY STRUCTURES AND SHEDS AND REMOVE ALL DEBRIS AND RUBBISH AND PLACE THE AREA IN A CLEAN AND ORDERLY CONDITION.
- TEMPORARY TOILET FACILITIES WILL BE PROVIDED BY THE CONTRACTOR. CLEAN BY THE CONTRACTOR.
- THE OWNER SHALL FURNISH TEMPORARY WATER AND ELECTRICAL SUPPLY POINTS ON THE SITE, WHERE AVAILABLE. THE CONTRACTOR SHALL PROVIDE THE MEANS TO DELIVER THE WATER/ELECTRICAL TO HIS CONSTRUCTION AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY CLEANING AND REPAIRING OF ADJACENT AREAS RESULTING FROM SAID CONTRACTOR'S OPERATIONS.
- ALL WORK RELATING TO THE DISRUPTION OF EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER.
- ALL PROTECTION AND SAFETY DEVICES TO INCLUDE TEMPORARY SAFETY RAILS SHALL BE PROVIDED BY THE CONTRACTOR AS IT RELATES TO THE SAFE CONDUCT OF HIS WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD MEASUREMENTS PRIOR TO FABRICATION OF MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL BLOCKING NECESSARY FOR THE INSTALLATION OF HIS WORK.
- THE CONTRACTOR SHALL:
 - CLEAN UP ALL WASTE MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS AT SUCH LOCATIONS AND FREQUENCIES AS REQUIRED, BUT NOT LESS THAN ONCE A WEEK, OR AS DIRECTED BY THE ENGINEER.
 - REPAIR, PATCH, AND TOUCH-UP MARRED SURFACES TO MATCH ADJACENT FINISHES DAMAGED BY HIS OWN OPERATIONS.
 - REMOVE FROM THE SITE ALL WASTE MATERIALS, RUBBISH, AND DEBRIS ON A REGULAR BASIS, BUT NOT LESS THAN ONCE A WEEK.
 - DO NOT USE OWNER'S DISPOSAL CONTAINERS UNLESS AUTHORIZED IN WRITING.
- CONSTRUCTION PERSONNEL SHALL CONFINE THEIR ACTIVITIES TO THE DESIGNATED CONSTRUCTION AREAS AND THE ACCESS THERETO.

C. GENERAL CONDITIONS

- THE AIA A107 GENERAL CONDITIONS (2007) SHALL BE APPLICABLE, EXCEPT AS AMENDED HEREIN.
- PROVIDE WARRANTIES AS DEFINED IN THE CONTRACT, OR AS LISTED HEREIN.

D. MISCELLANEOUS CRITERIA

- CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE PROJECT UNTIL THE WORK IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS, OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT. NOTE: TEMPORARY SHORING SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA.
- COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE EXISTING CONDITIONS.
- CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.
- SUBMIT SHOP DRAWINGS AND/OR PRODUCT DATA FOR REVIEW BY THE ENGINEER ON ALL COMPONENTS AND PRODUCTS SPECIFIED FOR THE PROJECT. CONTRACTOR IS TO SPECIFICALLY IDENTIFY WHERE SUBMITTED REPAIR PRODUCTS ARE TO BE USED. ALLOW ONE WEEK REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR.
- RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION.
- A FINAL SET OF AS-BUILT DRAWINGS IS REQUIRED UPON COMPLETION OF THE PROJECT.

II. DEMOLITION

- REMOVE ALL ITEMS NOTED ON THE DRAWINGS, OR AS REQUIRED TO MAKE THE SPECIFIED REPAIRS.
- ALL DEMOLISHED MATERIALS TO BE REMOVED FROM THE SITE AND DEPOSITED AT A REGULATED DUMP SITE.
- PROVIDE ALL SHORING NECESSARY TO PROTECT THE STRUCTURE DURING THE DEMOLITION PROCESS, AND UNTIL THE WORK IS COMPLETED.
- CONTRACTOR TO MINIMIZE DUST DURING WORK OPERATIONS AND CLEAN ADJACENT AREAS OF DUST FROM PROJECT ON A REGULAR BASIS.

III.A. CONCRETE REPAIRS

A. DESCRIPTION

- WORK INCLUDED: PROVIDE CONCRETE REPAIRS INCLUDING FORMWORK AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.
- DAMAGED REINFORCING STEEL SHALL BE CLEANED AND COATED AS SPECIFIED BELOW, OR REPLACED (WITH SAME SIZE BAR AND MECHANICAL SPLICES) AS DIRECTED BY THE ENGINEER.

B. QUALITY ASSURANCE

- USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.
- COMPLY WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI301, AND "CONCRETE REPAIR GUIDE" , ACI 546R-14, EXCEPT AS MODIFIED HEREIN.
- INSTALL ALL PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- SUBMIT PRODUCT DATA SHEETS ON ALL CONCRETE REPAIR PRODUCTS TO INCLUDE APPLICATION LOCATIONS AND MANUFACTURER'S CERTIFICATION OF APPLICATION. (PROVIDE SETS PER GENERAL CONDITIONS.)
- CONTRACTOR TO PROVIDE MOCK-UP OF THE TYPICAL REPAIR FOR ENGINEER REVIEW BEFORE PROCEEDING WITH THE WORK.

C. SOUNDING AND SAW CUTTING

- SOUND THE SURFACE TO VERIFY THE EXTENT OF THE AREA TO BE REPAIRED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED HEREIN. CONTRACTOR TO HAVE AVAILABLE (ON-SITE) A PACHOMETER TO LOCATE REINFORCING STEEL IN THE CONCRETE.
- SAW CUT AROUND THE AREA OF DETERIORATION TO A MINIMUM DEPTH OF 3/4 INCH. DO NOT CUT EMBEDDED REINFORCING UNLESS DIRECTED BY THE ENGINEER.
- WHERE POSSIBLE, THE CONCRETE AREAS REMOVED SHALL BE RECTANGULAR IN SHAPE.

D. CONCRETE REMOVAL

- REMOVE ALL DELAMINATED, UNSOUND, OR OTHERWISE UNSUITABLE CONCRETE. CONTRACTOR TO HAVE AN ADEQUATE SUPPLY OF PHENOPHTHALEIN ON-SITE TO CHECK FOR CARBONATION DURING THE EXCAVATION PROCESS.
- IF THE DETERIORATION OCCURS OVER REINFORCING BARS, REMOVE ALL OF THE CONCRETE AROUND EACH BAR TO ALLOW A MINIMUM OF 3/4 INCH ALL AROUND THE BAR WITH THE EXCEPTION OF VERTICAL COLUMN BARS. DO NOT REMOVE CONCRETE BEHIND VERTICAL COLUMN BARS (TOWARD THE CENTER OF THE COLUMN) UNLESS DIRECTED TO DO SO BY THE ENGINEER. DO NOT CUT ANY REINFORCING BARS WITHOUT THE APPROVAL OF THE ENGINEER.
- AVOID FRACTURING OF THE AGGREGATE AT THE SURFACE OF THE EXCAVATION. SOME "SOUND" CONCRETE MAY HAVE TO BE REMOVED TO ADEQUATELY EXPOSE AND CLEAN THE REINFORCING FOR ITS FULL LENGTH.
- MAXIMUM CARE IS TO BE TAKEN TO NOT DAMAGE ADJACENT CONCRETE THAT IS TO REMAIN.
- AVOID DAMAGING THE BOND OF THE BARS THAT EXTEND INTO THE ADJACENT EXISTING CONCRETE BY MINIMIZING VIBRATION OF THOSE BARS DURING THE CONCRETE REMOVAL PROCESS.
- CONTRACTOR TO PROVIDE PLYWOOD COVERS OVER EXCAVATED AREAS AT ALL DECK SURFACES UNTIL REPAIRS ARE COMPLETE. COVERS TO BE SECURED TO THE DECK SURFACE AND APPROPRIATELY MARKED PER SAFETY REQUIREMENTS.

E. FORMS

- DESIGN, ERECT, SUPPORT, BRACE, AND MAINTAIN FORMWORK SO IT WILL SAFELY SUPPORT VERTICAL AND LATERAL LOADS WHICH MIGHT BE APPLIED UNTIL SUCH LOADS CAN BE SUPPORTED SAFELY BY THE REPAIRED CONCRETE STRUCTURE.
- CONSTRUCT FORMS TO THE EXACT SIZES SHAPES, LINES, AND DIMENSIONS SHOWN, AND AS REQUIRED TO OBTAIN ACCURATE ALIGNMENT, LOCATION, GRADES, AND LEVEL AND PLUMB WORK IN THE FINISHED STRUCTURE.

F. REINFORCING STEEL (WHERE REPLACEMENT REQUIRED)

- PROVIDE REPLACEMENT REINFORCING STEEL AS DIRECTED BY THE ENGINEER WITH ASTM A615, GRADE 60 REINFORCING BARS, OR MMFX2 PER ASTM A615, GRADE 75, AS NOTED.
- PROVIDE MECHANICAL REBAR SPLICES BY BAR SPLICE PRODUCTS, INC. (OR EQUAL) AS DIRECTED BY THE ENGINEER (OR WELD WITH FULL BUTT OR VEE WELD PER AWS D1.4 (PREHEAT) WITH E60XX OR E70XX LOW HYDROGEN ELECTRODES. CONTRACTOR TO PROVIDE WELDER CERTIFICATION BEFORE PROCEEDING WITH THE WORK.)
- GENERAL GUIDELINES: REPLACE OR SUPPLEMENT ANY EXISTING REINFORCING BARS WITH A LOSS OF AREA IN EXCESS OF 15% WITH NEW REINFORCING BARS. LAP IN ACCORDANCE WITH ACI REQUIREMENTS. INCREASE LAPS AS REQUIRED FOR EPOXY COATED BARS. BARS WITH AN ABSENCE OF DEFORMATIONS ARE CONSIDERED DEFICIENT. ANY REINFORCING THAT IN THE ENGINEER'S JUDGEMENT IS INADEQUATE DUE TO DETERIORATION, DAMAGED DURING THE REPAIR PROCESS, OR IS INADEQUATE FOR ANY OTHER REASON, SHALL BE REPLACED. INSTALL ALL OTHER REINFORCING AS SHOWN ON THE DETAILS.
- RE-TIE ALL EXPOSED BARS TO EXPOSED CROSSING BARS AT CONCRETE REPAIRS (100%).
- RE-TIE EXPOSED BARS TO IMBEDDED CROSSING BARS (30%) UNLESS OTHERWISE DIRECTED BY ENGINEER.

G. SURFACE PREPARATION

- PREPARE CONCRETE AND REINFORCING STEEL SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, AND ICRI GUIDELINE NO. 10.1R-2008
- WIRE BRUSH OR MECHANICALLY CHIP SUBJECT AREAS OF ALL LOOSE MATERIALS.
- CLEAN AREA OF ALL DUST, LATENCE, OR OTHER SURFACE CONTAMINANTS.
- ALL EXPOSED STEEL REINFORCEMENT (IF ANY) MUST BE CLEANED (SAND BLASTED) AND EXPOSED 100% OF ITS CIRCUMFERENCE. ONCE CLEANED, AND PRIOR TO THE REPAIR APPLICATION, THE EXPOSED METAL SHOULD BE COATED WITH AN ANTI-CORROSIVE AGENT WHERE BARS HAVE LESS THAN ONE (1) INCH OF COVER, AND NOT PROTECTED BY A WATERPROOF MEMBRANE.
- DAMPEN CONCRETE SURFACE TO BE REPAIRED WITH CLEAN WATER (SSD), BUT MAKE SURE THERE IS NO STANDING WATER.
- ALL CONCRETE SURFACES SHOULD BE PRIMED WITH A SLURRY (FROM SELECTED REPAIR MATERIAL), AND SCRUBBED INTO THE SUBSTRATE. (REFER TO MANUFACTURER'S SPECIFICATIONS.)
- DO NOT FEATHER EDGE REPAIR MATERIALS. SAW CUT AND CHIP BACK REPAIR AREA TO INSURE A MINIMUM 1/2" MATERIAL THICKNESS AT EDGE OF REPAIR AREA.

H. MATERIAL SELECTION

- SELECT THE APPROPRIATE PATCH MATERIAL AND METHOD BASED ON THE CRITERIA ESTABLISHED IN THE DETAILS AND/OR SPECIFICATIONS. SUBMIT FOR ENGINEER REVIEW.
- PROVIDE 1/4" TO 1/2" AGGREGATE IN THE REPAIR AREAS WHEN THE DEPTH OF REPAIR EXCEEDS ONE (1) INCH. TYPE, SIZE, AND QUANTITY OF AGGREGATE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- FORMED AND POURED PATCHES ARE PREFERRED BUT IN SOME INSTANCES TROWELED PATCHES MAY BE ADVISABLE FOR SPECIFIC CONDITIONS. CONFER WITH THE ENGINEER.
- INSTALL ALL MATERIALS IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONCRETE TO CONCRETE BONDING COMPOUNDS ARE TO BE USED ONLY WHERE SPECIFICALLY SHOWN ON THE DETAILS OR APPROVED BY THE ENGINEER.

I. SUPPLEMENTAL ANCHORS

- INSTALL STAINLESS STEEL ANCHORS AND RODS AS SHOWN ON DETAILS OR AS DIRECTED BY THE ENGINEER. KEEP SUBSTRATE SURFACE CLEAN AND FREE OF EPOXY. THOROUGHLY CLEAN OFF ALL EPOXY RESIDUE FROM THE SUBSTRATE. AVOID PLACING THE ANCHORS OR RODS IN CONTACT WITH THE REINFORCING STEEL WITHIN THE EXCAVATION. IF CONTACT IS MADE, COAT THE COMMON SURFACES WITH STO CR246.

J. PLACING CONCRETE REPAIR MATERIALS:

- INSTALL REPAIR MATERIALS IN ACCORDANCE WITH ICRI GUIDELINE #03731, AND THE MANUFACTURER'S REQUIREMENTS IN A CONTINUOUS OPERATION, WITHIN LIMITS OF THE REPAIR AREAS, UNTIL THE PLACING IS COMPLETED.
- BRING SURFACES TO THE CORRECT LEVEL WITH A STRAIGHT EDGE, AND THEN STRIKE OFF.
- USE FLOATS TO SMOOTH THE SURFACE, LEAVING THE SURFACE FREE FROM BUMPS AND HOLLOWES.
- DO NOT SPRINKLE WATER ON THE PLASTIC SURFACE.
- CURE REPAIRED AREA BY COVERING WITH VISQUEEN SHEETING, OR PER REQUIREMENTS FROM THE MANUFACTURER.

K. STRUCTURAL CRACK REPAIRS

- CRACK INJECTION – AS DIRECTED BY ENGINEER.
- ROUT AND SEAL – 1/4" X 1/2" DEEP (±) ROUTER CUT, CLEAN WITH COMPRESSED AIR, REPAIR BY GRAVITY FEED WITH EPOXY, EPOXY GEL, SILICONE SEALANT, OR URETHANE SEALANT), AS DIRECTED BY ENGINEER.

L. GALVANIC ANODES

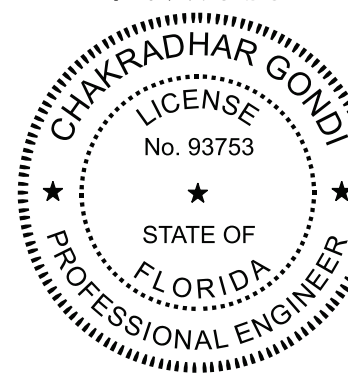
- MATERIALS – GALVASHIELD-XP/XPT (AND CC ANODES WHERE SPECIFIED) AS DISTRIBUTED BY VECTOR CORROSION TECHNOLOGIES, WINNIPEG, CANADA. (1-204-489-6300)
- INSTALLATION (XP/ XPT ANODES)– THE CONCRETE SHOULD BE REMOVED FROM AROUND AND BEHIND THE STEEL REINFORCEMENT, IN ACCORDANCE WITH GOOD CONCRETE REPAIR PRACTICE. THE CORR-STOP ANODE UNIT SHOULD BE POSITIONED AND ATTACHED TO CLEAN STEEL REINFORCEMENT USING THE TIE WIRES AND TIGHTENED USING A SUITABLE WIRE TWISTING TOOL SO NO FREE MOVEMENT IS POSSIBLE, THUS ASSURING GOOD ELECTRICAL CONTINUITY. THE CONTINUITY BETWEEN THE ANODE TIE WIRES AND THE CLEANED REINFORCING BAR SHOULD BE CONFIRMED AFTER INSTALLATION WITH AN APPROPRIATE METER. ANODE LOCATION AND SPACING SHALL BE AS SPECIFIED BY THE ENGINEER. WITH THE CORR-STOP ANODE(S) NOW IN POSITION, THE REPAIR CAN BE COMPLETED USING THE APPROPRIATE REPAIR MATERIALS. NOTE: (GALVASHIELD-XP ANODES SHOULD BE USED IN CONJUNCTION WITH SUITABLE CEMENTIOUS BASED, NON-POLYMER MODIFIED REPAIR MORTARS OR CONCRETE.)
- CONTINUITY CHECKS – (REFER TO DETAIL ON PLANS.) CONTRACTOR TO PROVIDE MULTIMETER NECESSARY FOR CONTINUITY CHECKS.



5755 Rio Vista Drive
Clearwater, FL 33760-3137
(727) 325-1251
Florida Coa 7819
Chakradhar Gondal, P.E.
Florida P.E. 93753
Pennoni Project No. CLWRC25022

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

This item has been electronically signed
by Chaiti Gendil, State of Florida, and
is a Digital Signature. Printed copies of this document are not
considered signed and sealed and the
original document is not verified on any
electronic copies.



CARPENTER COMPLEX
2026 STRUCTURAL REPAIRS

651 NORTH OLD COACHMAN RD
CLEARWATER, FL 33765

									BY
									REVISIONS
									NO
									DATE

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATE. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	CLWRC25022
DATE	06-15-26
DRAWING SCALE	AS NOTED
DRAWN BY	KA
APPROVED BY	JVB

S0.1

AKRADHAR
LICENSE
No. 93753
★
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

CARPENTER COMPLEX
2026 STRUCTURAL REPAIRS

551 NORTH OLD COACHMAN RD
CLEARWATER, FL 33765

[illegible]

PROJECT	CLWRC2502
DATE	06-15-20
DRAWING SCALE	AS NOTED
DRAWN BY	KAR
APPROVED BY	JV

\$1.0

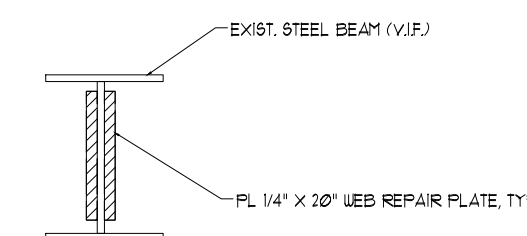


CLUBHOUSE LEVEL 1 PLAN

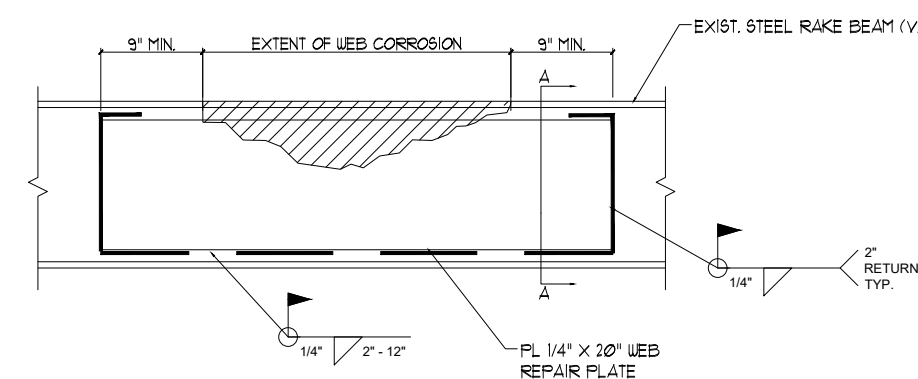
SCALE: $\frac{1}{8}'' = 1'-0''$

1. EXTERIOR WALL COATINGS PER SPECIFICATIONS.
2. EXTERIOR STUCCO REPAIRS PER SPECIFICATIONS
3. STEEL SURFACE CORROSION REPAIRS AND COATINGS AT EXTERIOR WALKWAYS AT SECOND FLOOR PER SPECIFICATIONS. CLEAN ALL STEEL PER SURFACE PREPARATION STANDARD SSPC-SP3 TO REMOVE ANY RUST, LOOSE PAINT, DUST, DEBRIS ETC. INFORM PENNION IF THERE IS MORE THAN 25% CROSS SECTIONAL LOSS IN THE MEMBER REFER 2/10 FOR CONCEPTUAL SERIES OF EXISTING STEEL MEMBERS. IF THERE IS MORE THAN 25% CROSS SECTIONAL LOSS IN THE MEMBER COAT ALL EXPOSED STEEL MEMBERS PER COATING SPECIFICATIONS.
4. MISCELLANEOUS CONCRETE REPAIRS PER §3.0.
5. EQUIPMENT MOUNTED TO DAMAGED SUBSTRATE OR DIRECTLY AFFECTED BY REPAIRS IS TO BE REMOVED, STORED AND RE-INSTALLED BY THE CONTRACTOR.

CLUBHOUSE LEVEL 1 : KEY CODE - FIELD SURVEY		
KEY	DESCRIPTION	DETAILS
SC	STUCCO CRACK ("V"-VERTICAL, "H"- HORIZONTAL)	SEE SPECS
SS	STUCCO SPALLS	SEE SPECS
CSG	CEILING STUCCO CRACKS	SEE SPECS
CC	CONCRETE CRACK	4/83/D
CS	CONCRETE SPALLS	1/83/D
CSW	CONCRETE SIDEWALKS CRACK	4/83/D
PF	PAINT PEELING	SEE SPECS
SF	SEALANT FAILURE	SEE SPECS
FR	FAILED REPAIR	N/A
WI	WATER INTRUSION	N/A
WS	WATER STAIN (AT CEILING)	N/A
CF	CEILING TILES FAILING	N/A
PC	PLASTER CRACKS	N/A
PS	PLASTER SPALLS	N/A
RS	STEEL CORROSION AT EXTERIOR BEAMS (AT 2ND FLOOR FRAMING AND WALKWAYS)	NOTE 3/5/D



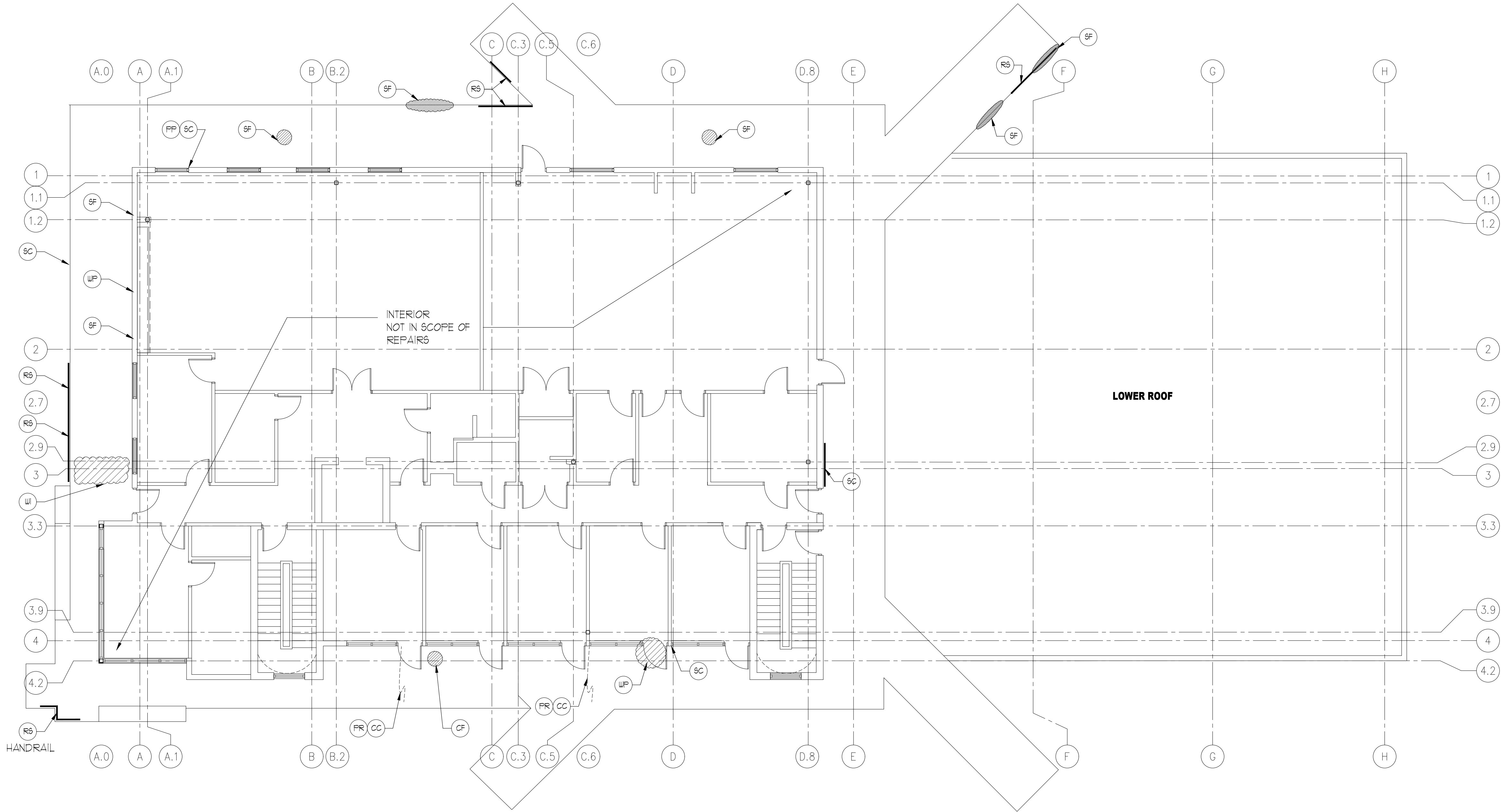
SECTION A-A



EXISTING STEEL RAKE BEAM REPAIR DETAIL
SCALE: N.T.S. **FOR REFERENCE ONLY**

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CLUBHOUSE LEVEL 2 PLAN

SCALE: 1/8" = 1'-0"

REPAIR NOTES:

- EXTERIOR WALL COATINGS PER SPECIFICATIONS.
- EXTERIOR STUCCO REPAIRS PER SPECIFICATIONS.
- STEEL REPAIRS AND COATINGS AT EXTERIOR DECKS PER SPECIFICATIONS. SEE NOTE 3/5/10
- RE COAT ALL EXTERIOR HANDRAILS PER SPECS.
- ROUT AND SEAL CONCRETE CRACKS IN EXTERIOR DECKS PER 2/53.0
- INTERIOR NON-STRUCTURAL ITEMS INCLUDING BUT NOT LIMITED TO INTERIOR CEILING REPAIRS, NON LOAD BEARING PARTITION WALL REPAIRS, WATER INTRUSION FROM HVAC CONDENSATE, FLOOR TILE REPAIRS ETC. ARE NOT INCLUDED IN THE SCOPE OF THESE DRAWINGS.
- EQUIPMENT MOUNTED TO DAMAGED SUBSTRATE OR DIRECTLY AFFECTED BY REPAIRS IS TO BE REMOVED, STORED AND RE-INSTALLED BY THE CONTRACTOR.

CLUBHOUSE LEVEL 2 : KEY CODE - FIELD SURVEY		
KEY	DESCRIPTION	DETAILS
SC	STUCCO CRACKS	SEE SPECS
FR	PREVIOUS REPAIR	N/A
CC	CONCRETE CRACK	2/53.0
CF	COATING FAILURE	SEE SPECS
RS	STEEL CORROSION	SEE SPECS
WI	WATER INTRUSION	N/A
FA	FIRE ALARM BROKEN	N/A
SG	STUCCO SFALLS	SEE SPECS
SF	SEALANT FAILURE	SEE SPECS
WP	WATER PONDING / STANDING WATER	N/A
PP	PAINT PEELING	SEE SPECS

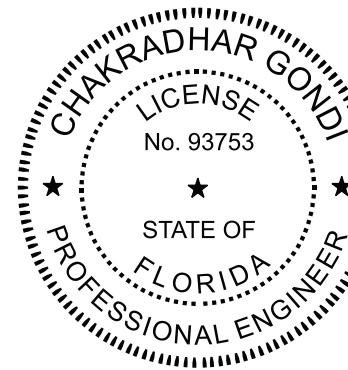
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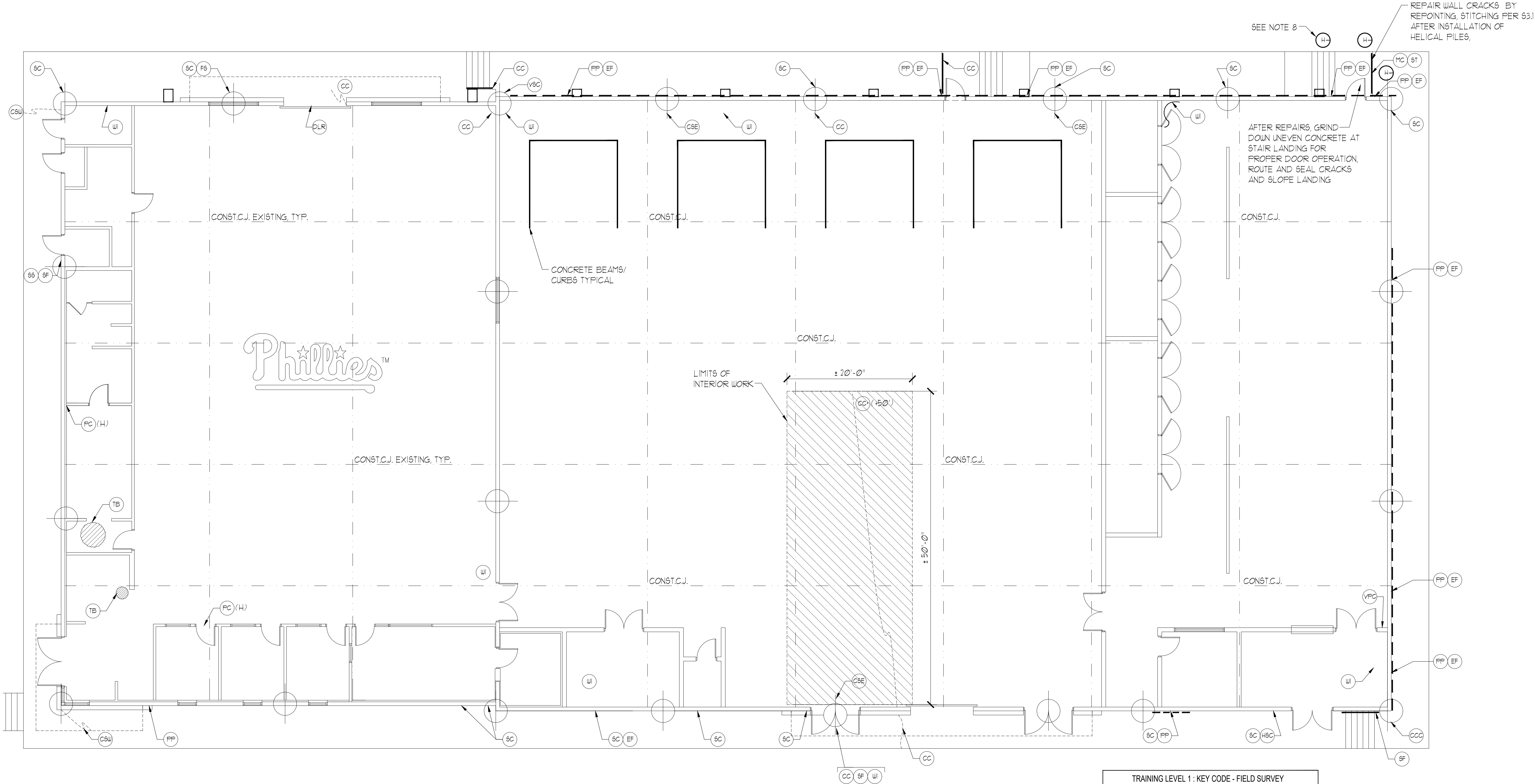
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DRAWN BY	KA
APPROVED BY	JVB

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TRAINING BUILDING 1ST FLOOR PLAN

SCALE: 1/8" = 1'-0"

REPAIR NOTES:

- EXTERIOR WALL COATINGS PER SPECIFICATIONS AND BUILDING ENVELOPE DRAWINGS BY BEAM PROFESSIONALS
- EXTERIOR STUCCO REPAIRS PER SPECS.
- CONCRETE WALL PANEL REPAIRS (CSE) AT EMBED PLATE CONNECTIONS PER 1/§3.0
- CONCRETE CORNER CRACK AT EXTERIOR WALL PANEL (CCC) REPAIR PER 9/§3.0
- CONCRETE CRACK REPAIR ON INTERIOR SLAB ON GRADE (CC') PER 10/§3.0
- MISCELLANEOUS CONCRETE CRACKS PER §3.0.
- INTERIOR NON-STRUCTURAL ITEMS INCLUDING BUT NOT LIMITED TO INTERIOR CEILING REPAIRS, NON LOAD BEARING PARTITION WALL REPAIRS, WATER INTRUSION FROM HVAC CONDENSATE, FLOOR TILE REPAIRS ETC. ARE NOT INCLUDED IN THE SCOPE OF THESE DRAWINGS.
-  HELICAL PILE TO PROVIDE FOUNDATION SUPPORT AT STAIRS TO ADDRESS THE ONGOING SETTLEMENT. SEE §02 FOR SPECIFICATIONS REQUIRING DELEGATED ENGINEERING
- EQUIPMENT MOUNTED TO DAMAGED SUBSTRATE OR DIRECTLY AFFECTED BY REPAIRS IS TO BE REMOVED, STORED AND RE-INSTALLED BY THE CONTRACTOR.
- TURF REMOVAL AND REPLACEMENT TO BE PERFORMED OR COORDINATED BY THE CONTRACTOR. (PREFERRED VENDOR BY OWNER : TURBO LINK INTERNATIONAL INC.1452 CRESTVIEW ST. CLEARWATER, FL 33765 (800) 958-8716)

TRAINING LEVEL 1 : KEY CODE - FIELD SURVEY		
KEY	DESCRIPTION	DETAILS
	PAINT PEELING	SEE SPECS
	SEALANT FAILURE	SEE SPECS
	WATER INTRUSION	N/A
	EFFLORESCENCE	N/A
	STUCCO CRACK (1/4"-VERTICAL, 1/4"- HORIZONTAL)	SEE SPECS
	STUCCO SPALLS	SEE SPECS
	CONCRETE CRACK	4/§3.0
	SETTLEMENT	SEE NOTE 8
	CONCRETE SIDEWALKS CRACK	4/§3.0
	CONCRETE STAIR	4/§3.0
	PLASTER CRACKS	N/A
	CONCRETE SPALL EMBEDMENT	1/§3.0
	MASONRY CRACK	
	CORROSION / RUSTED	SEE SPECS
	DOOR LINTEL CORRODED	SEE SPECS
	FLOOR TILES BROKEN	N/A
	CONCRETE CRACK AT WALL CORNER	9/§3.0
	CONCRETE CRACK AT INTERIOR SLAB ON GRADE	10/§3.0

Pennoni
5755 Rio Vista Drive
Clearwater, FL 33760-3137
(727) 325-1251
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STATE OF
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PROFESSIONAL ENGINEER

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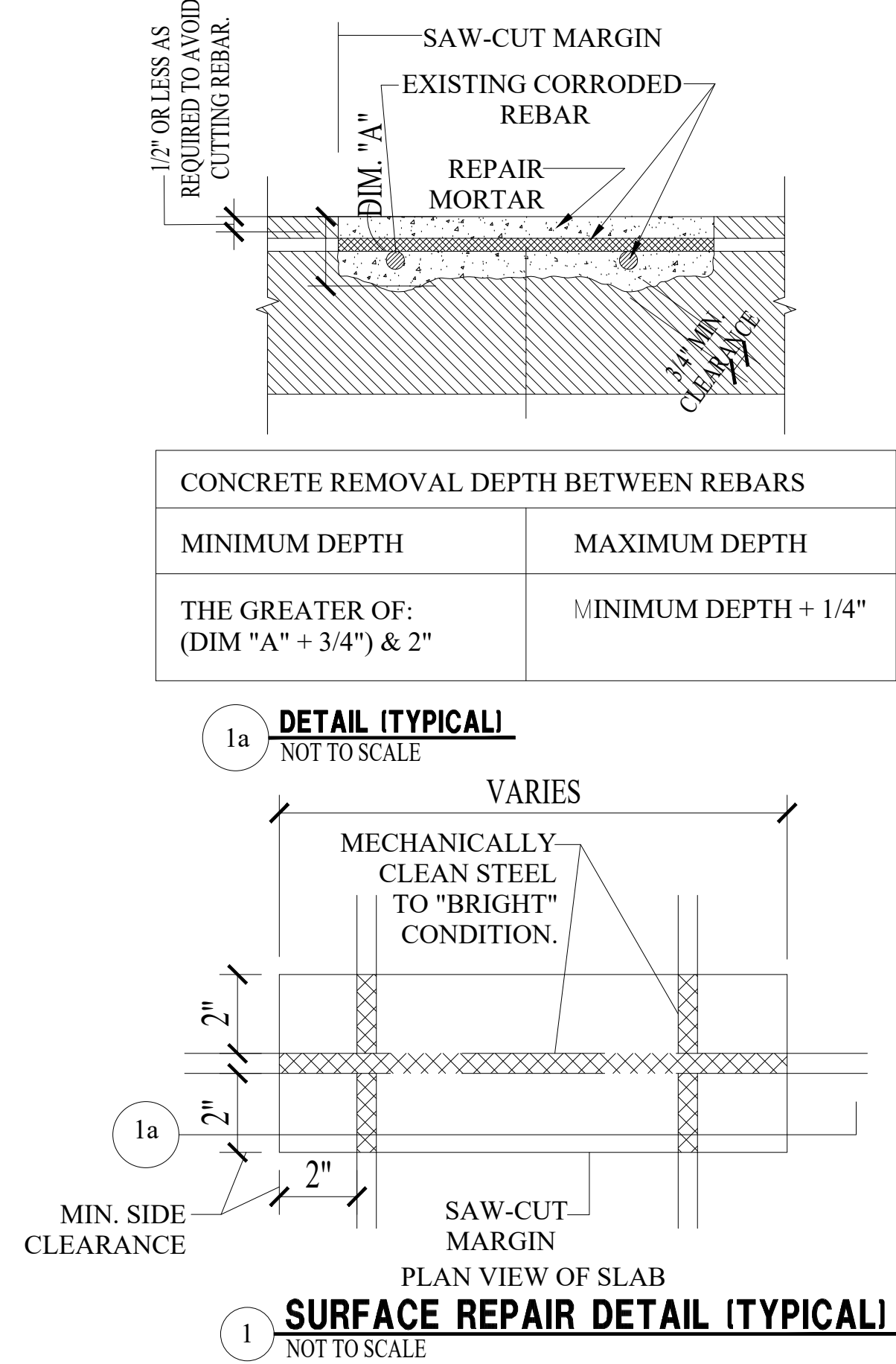
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PROJECT	CLWRC25022
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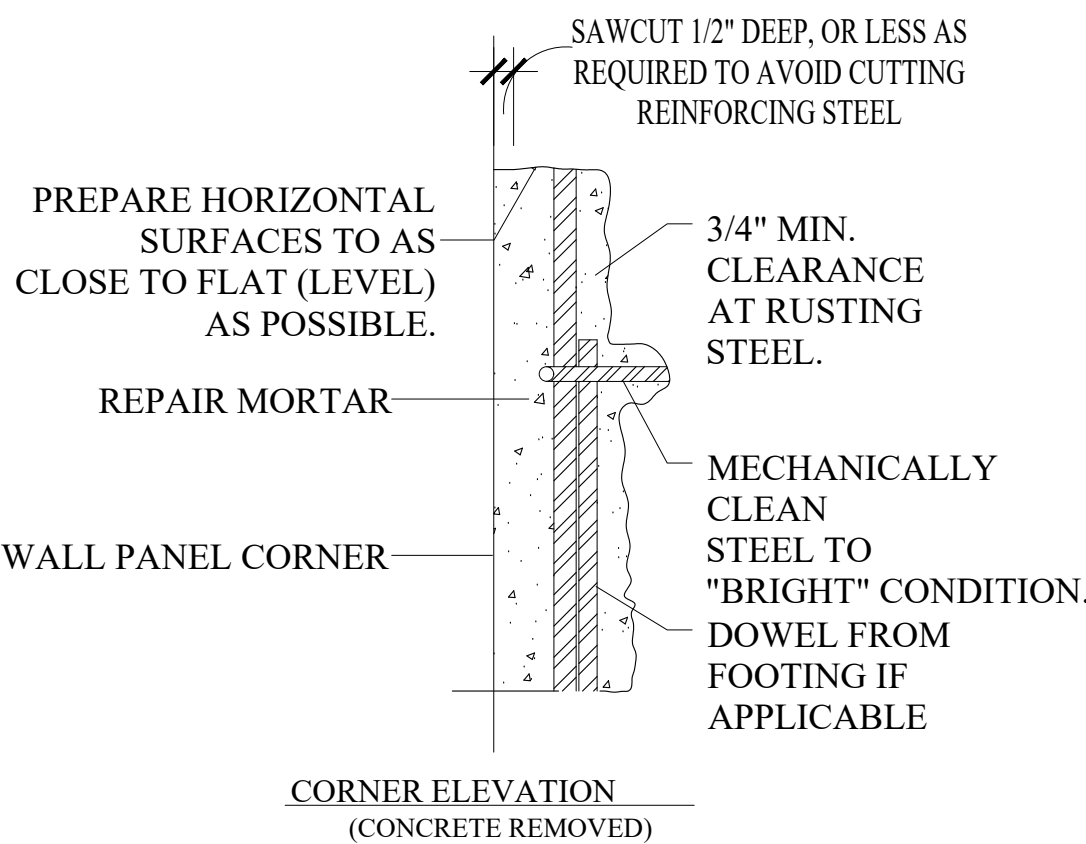
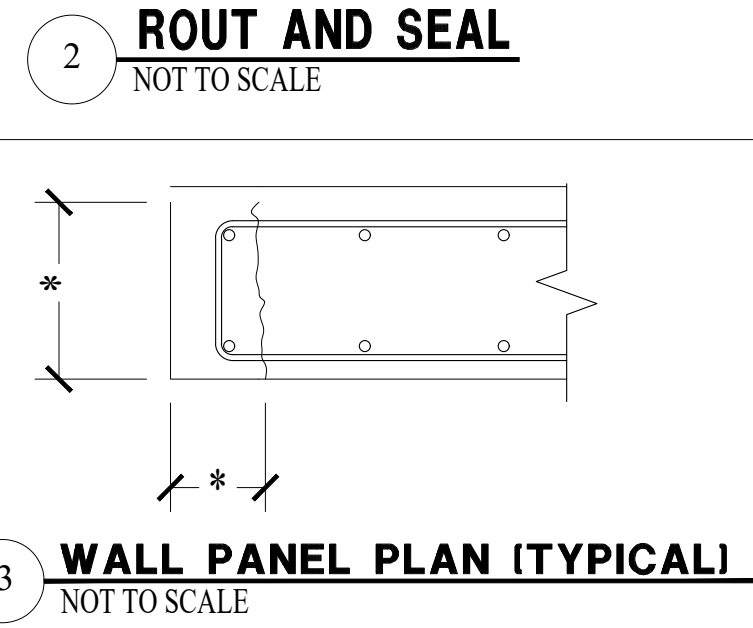
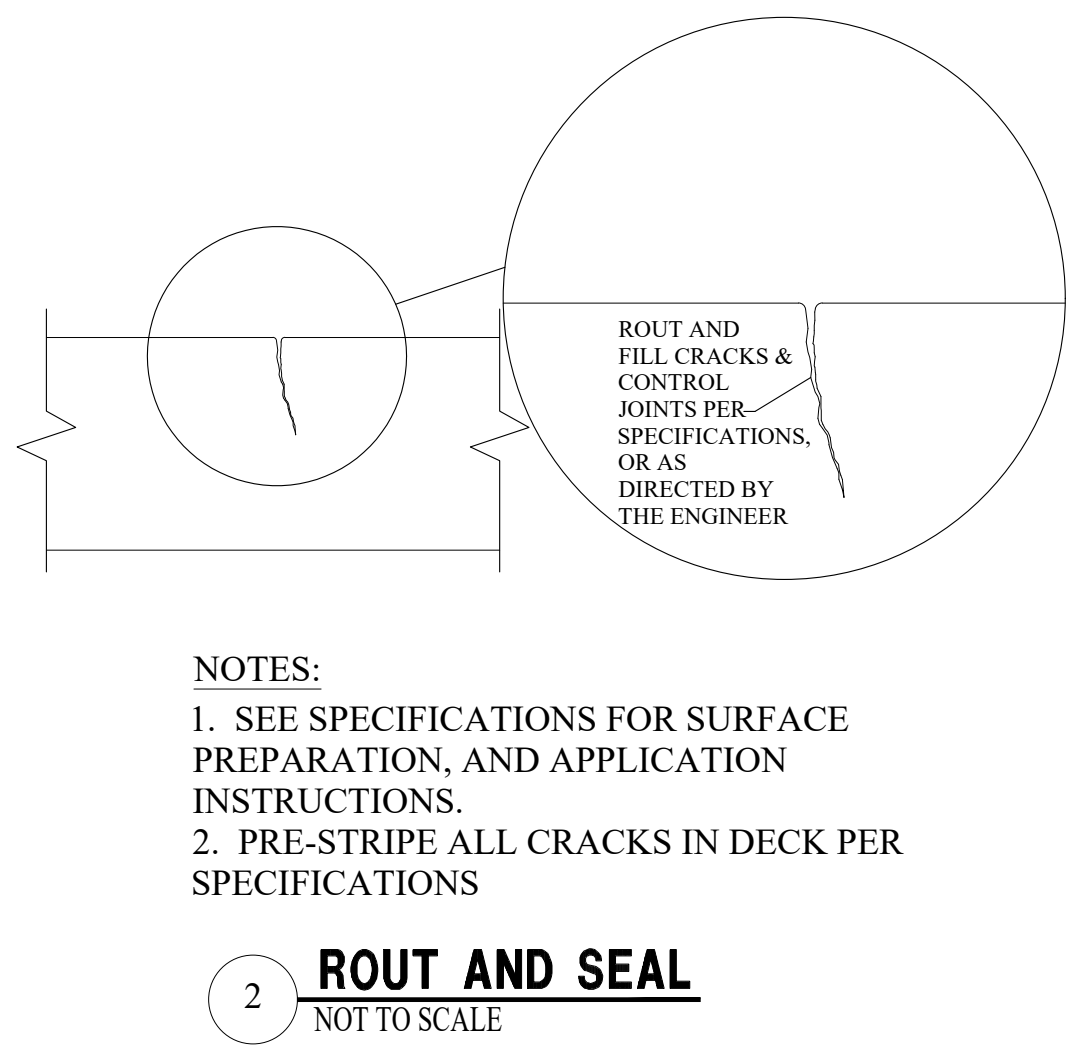
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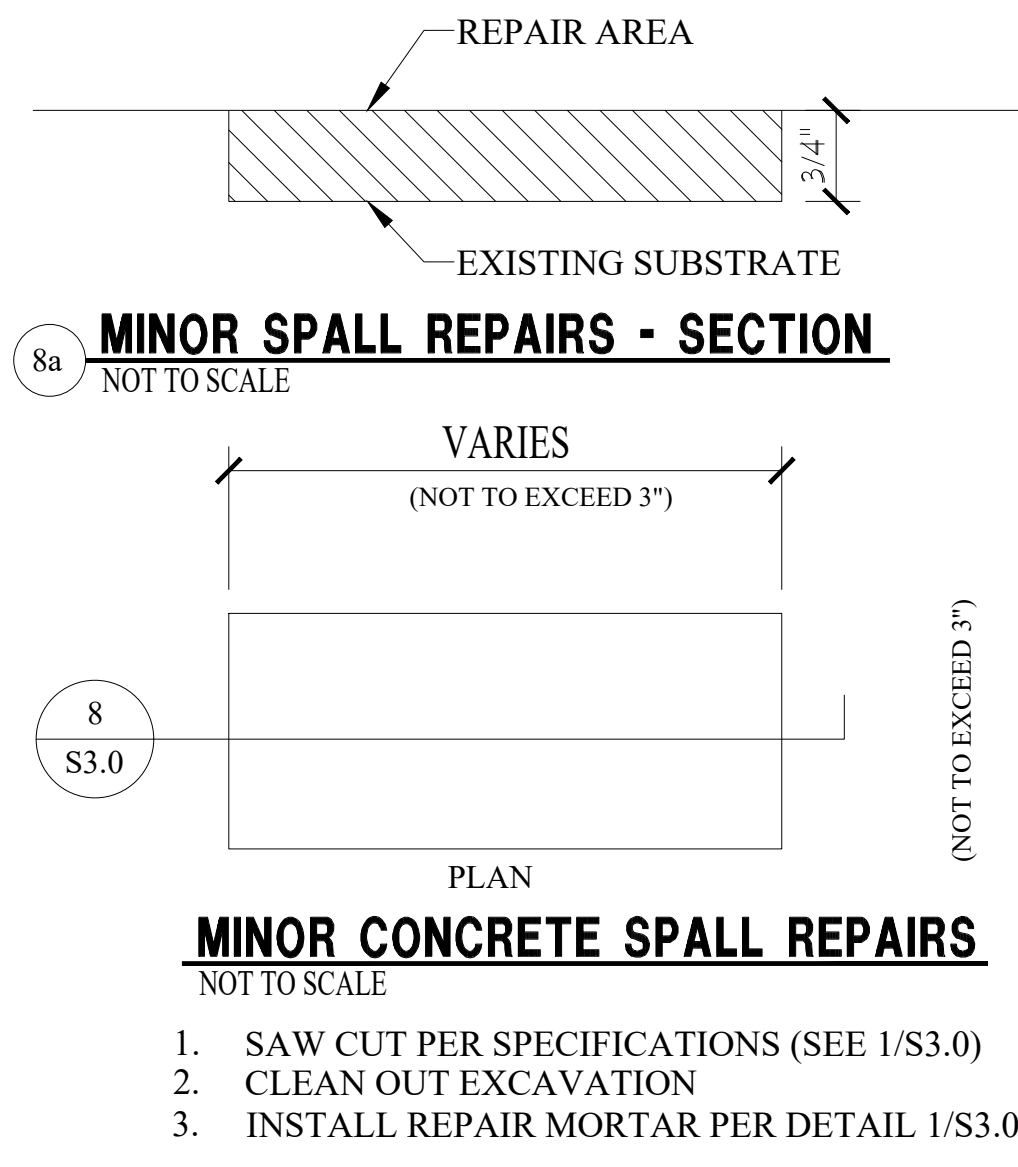
- DEMOLITION PROCEDURE:**
- CONTRACTOR TO READ, UNDERSTAND AND FOLLOW ALL OF THE MANUFACTURES RECOMMENDATIONS FOR THE INSTALLATION OF REPAIR MATERIALS LISTED HEREIN.
 - INSTALL ANY REQUIRED SHORING PRIOR TO THE START OF ANY DEMOLITION. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - CONTRACTOR TO INSPECT/ SOUND THE SUSPECTED DAMAGED CONCRETE AND REVIEW THE POTENTIAL REPAIRS LOCATIONS WITH THE ENGINEER PRIOR TO COMMENCEMENT DEMO.
 - PREPARE REPAIR AREA PER ICRI GUIDELINES # 310.R. SAWCUT THE PERIMETER OF THE PROPOSED REPAIR AREA TO A MINIMUM DEPTH OF 3/4" WITHOUT DAMAGING THE REINFORCEMENT. THE SAWCUT AREA SHOULD BE GEOMETRICALLY EQUAL, IE. SQUARE.
 - REMOVE ALL LOOSE AND DELETERIOUS CONCRETE MATERIAL THAT ENCOMPASSES THE HONEYCOMB AREA WITHIN THE BEAM OR COLUMNS.
 - THE CONCRETE WITHIN THE REPAIR AREA SHALL BE PREPARED TO A MINIMUM OF C SP-6 SURFACE ROUGHNESS OR GREATER PRE THE REPAIR MORTAR SPECIFICATIONS.
 - ENGINEER OR OWNERS' REPRESENTATIVE TO INSPECT.

REPAIR PROCEDURE:

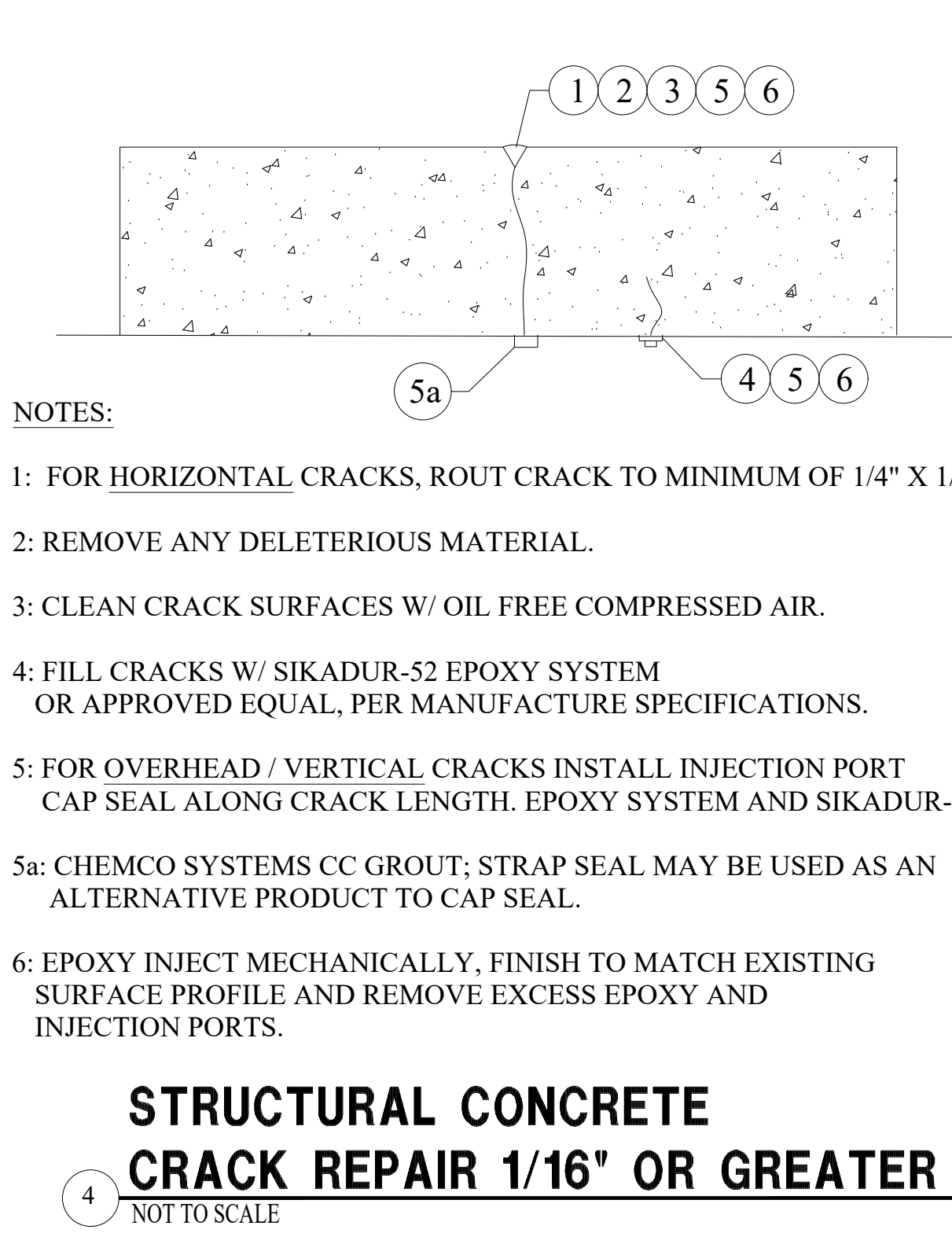
- SAND BLAST EXISTING REINFORCING TO REMOVE CORROSION AND ALLOW OWNERS REPRESENTATIVE TO INSPECT AREA BEFORE CONTINUING TO THE NEXT STEP. IF REINFORCING HAS MORE THAN A 15% CROSS SECTIONAL AREA LOSS DUE TO CORROSION OR AT LOCATIONS DIRECTED BY THE OWNER'S REPRESENTATIVE, REINFORCING MUST BE SPLICED OR REPLACED. REBAR SPLICES SHALL EXTEND THE MINIMUM TENSION LAP DISTANCE FOR GIVEN REINFORCEMENT INTO CLEAN UNDAMAGED REINFORCEMENT. REINFORCEMENT TO BE GRADE 40 FOR BARS #3 AND SMALLER AND GRADE 60 FOR BARS #4 AND LAGER. IF NECESSARY, THE CONTRACTOR SHALL CHIP UNDER THE EXISTING REINFORCEMENT AND POSITIVELY HOLD DOWN THOUGH MECHANICAL MEANS TO ACHIEVE MINIMUM 1-1/2" COVER. MECHANICAL REBAR SPLICES ARE ACCEPTABLE. SEE SPEC FOR ADDITIONAL INFORMATION. IF REBAR LAP CANNOT BE OBTAINED, REBAR MAY BE DRILLED AND DOWELED A MINIMUM OF 8" INTO CLEANED UNDAMAGED CONCRETE W/ SIMPSON SET-XP EPOXY OR APPROVED EQUAL.
- PRESSURE WASH REPAIR AREA (1500PSI MINIMUM) TO REMOVE ALL DUST OR LOOSE MATERIAL AND ALLOW TO DRY. OIL FREE COMPRESSED AIR MAY BE USED TO ACCELERATE THE DRYING PROCESS.
- IF 1-1/2" CONCRETE COVER CANNOT BE OBTAINED AND AT LOCATIONS AS DIRECTED BY THE ENGINEER, INSTALL VECTOR XP/XPT ANODE (OR APPROVED EQUAL) PER MANUFACTURE SPECIFICATIONS AND RECOMMENDATIONS.
- REPAIR SURFACE SHALL BE PREPARED TO BE SATURATED SURFACE DRY (SSD) WITH NO STANDING WATER.
- AT VERTICAL OR OVERHEAD LOCATIONS INSTALL SIKAEMACO 425 GEL PATCH OR APPROVED EQUAL AT REPAIR AREA PER MANUFACTURER SPECIFICATIONS. REPAIR MATERIAL SHALL BE INSTALLED IN MAXIMUM LIFTS OF 2 INCHES.
- AT MINOR HORIZONTAL REPAIRS INSTALL SIKAEMACO 1061 REPAIR MORTAR OR APPROVED EQUAL AT REPAIR AREA PER MANUFACTURER SPECIFICATIONS. REPAIR MATERIAL SHALL BE INSTALLED TO A MAXIMUM 2-INCH DEPTH.
- AT FULL DEPTH REPAIR LOCATIONS COAT REPAIR AREA AND ALL EXPOSED STEEL REINFORCEMENT WITH SIKA ARMATEC 110 CORROSION INHIBITOR AND BONDING AGENT. FORM AND POUR REPAIR AREA WITH SIKAEMACO 440 CI POURABLE AND PUMPABLE PRE-EXTENDED SELF-CONSOLIDATING REPAIR MORTAR OR APPROVED EQUAL.
- ALL REPAIR WORK SHALL BE FINISHED TO MATCH THE SURFACE LEVEL OF EXISTING CONDITIONS.



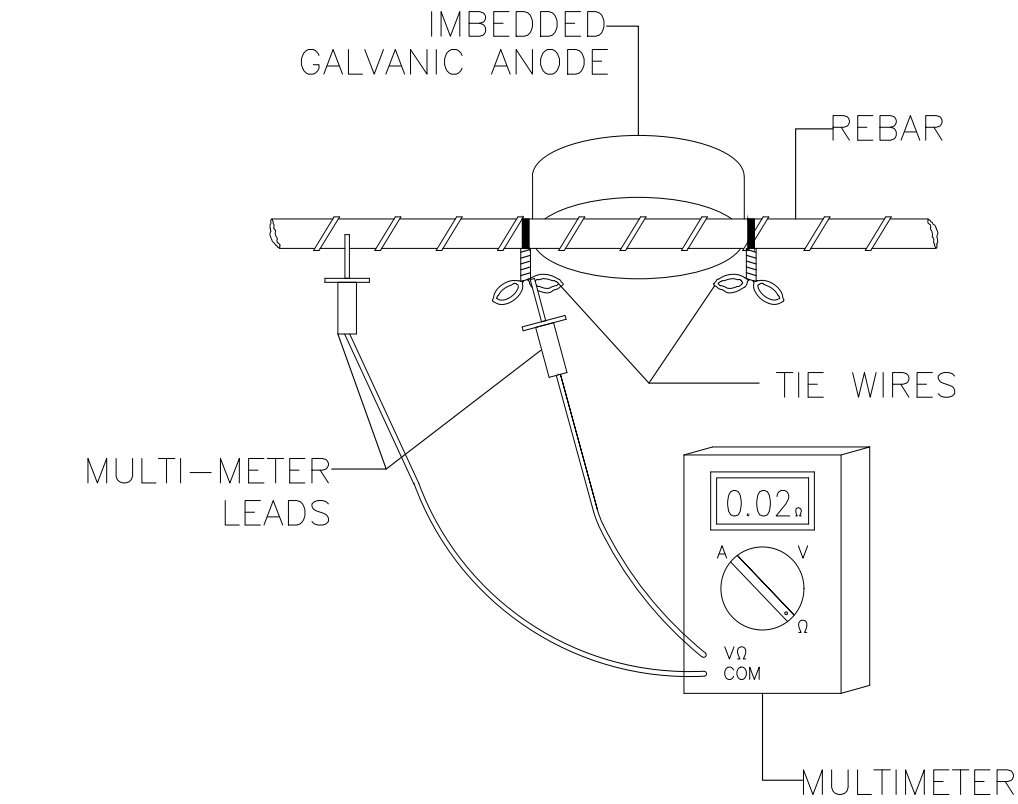
- 3a WALL PANEL REPAIR DETAIL (TYPICAL)**
NOT TO SCALE
- CONSTRUCTION NOTES:**
- REMOVE ALL LOOSE CONCRETE FROM EXISTING WALL PANEL LEAVING A ROUGHENED SURFACE.
 - CLEAN ALL EXISTING COLUMN STEEL TO A RUST FREE CONDITION.
 - APPLY BONDING AGENT/ANTI-CORROSION COATING TO ALL SURFACES OF EXISTING STEEL.
 - APPLY REPAIR MORTAR PER MANUFACTURE'S INSTRUCTIONS.



- MINOR CONCRETE SPALL REPAIRS**
NOT TO SCALE
- SAW CUT PER SPECIFICATIONS (SEE 1/S3.0)
 - CLEAN OUT EXCAVATION
 - INSTALL REPAIR MORTAR PER DETAIL 1/S3.0

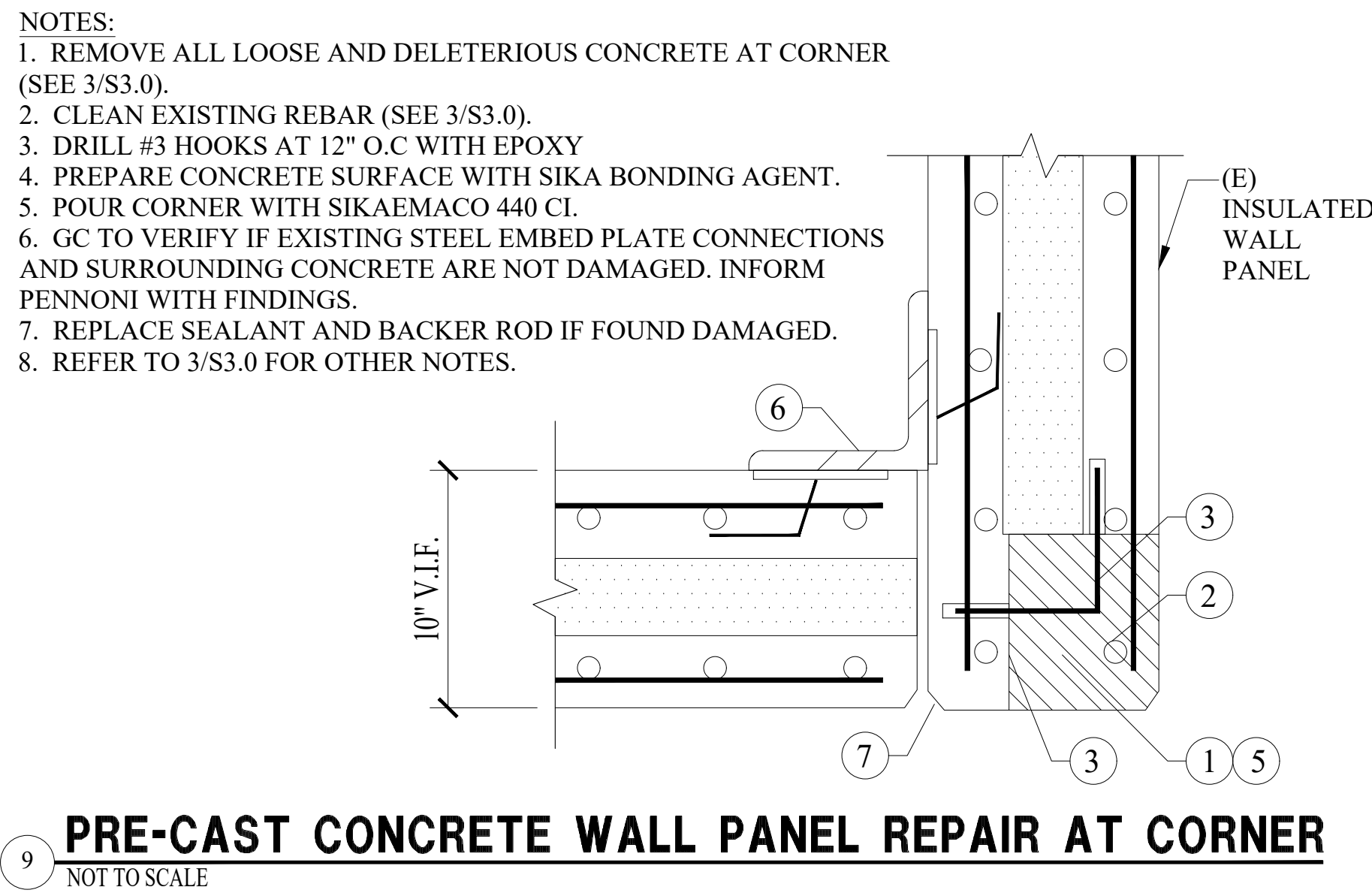


STRUCTURAL CONCRETE CRACK REPAIR 1/16" OR GREATER
NOT TO SCALE

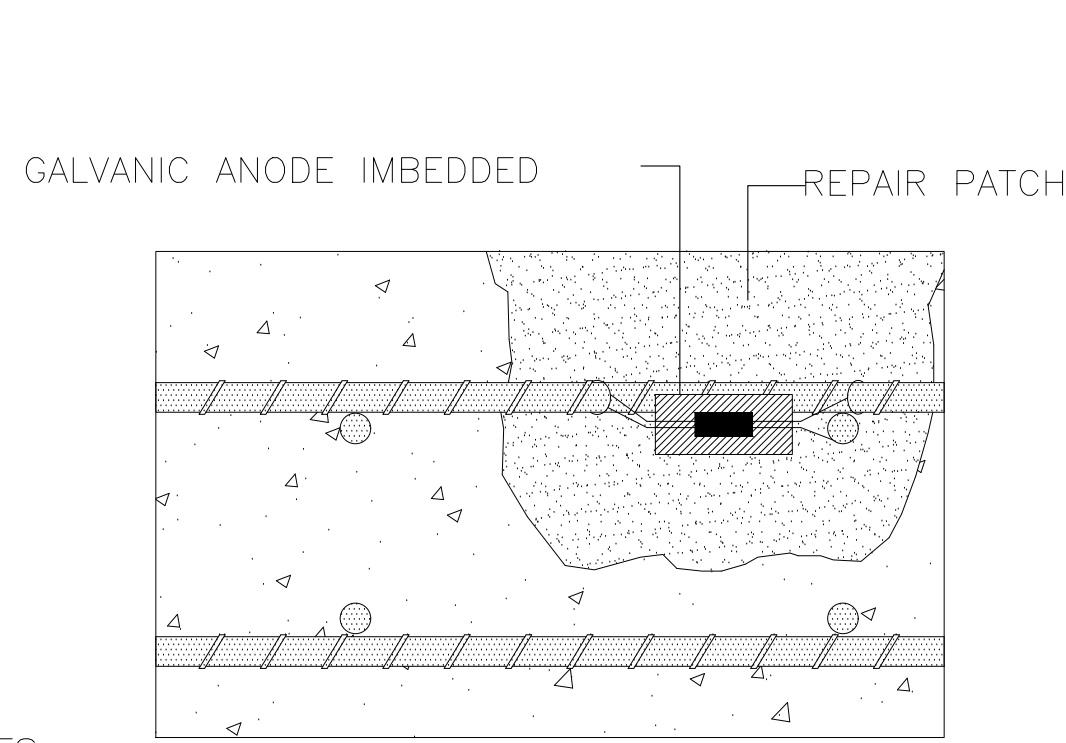


- NOTES:**
- TURN MULTIMETER ON, AND SET TO OHM Ω INDICATOR.
 - CONTINUITY IS CHECKED AFTER INSTALLATION. BY TOUCHING ONE MULTIMETER LEAD WIRE TO THE CLEAN REINFORCING STEEL AND THE OTHER TO THE ANODE TIE WIRE, THE METER SHOULD GIVE A READING OF APPROXIMATELY ZERO OHMS (Ω). IF THE READING IS TOO HIGH (0.5 Ω), TIGHTEN ANODE TIE WIRES.

ANODE CONTINUITY CHECK
N.T.S. (BY CONTRACTOR)

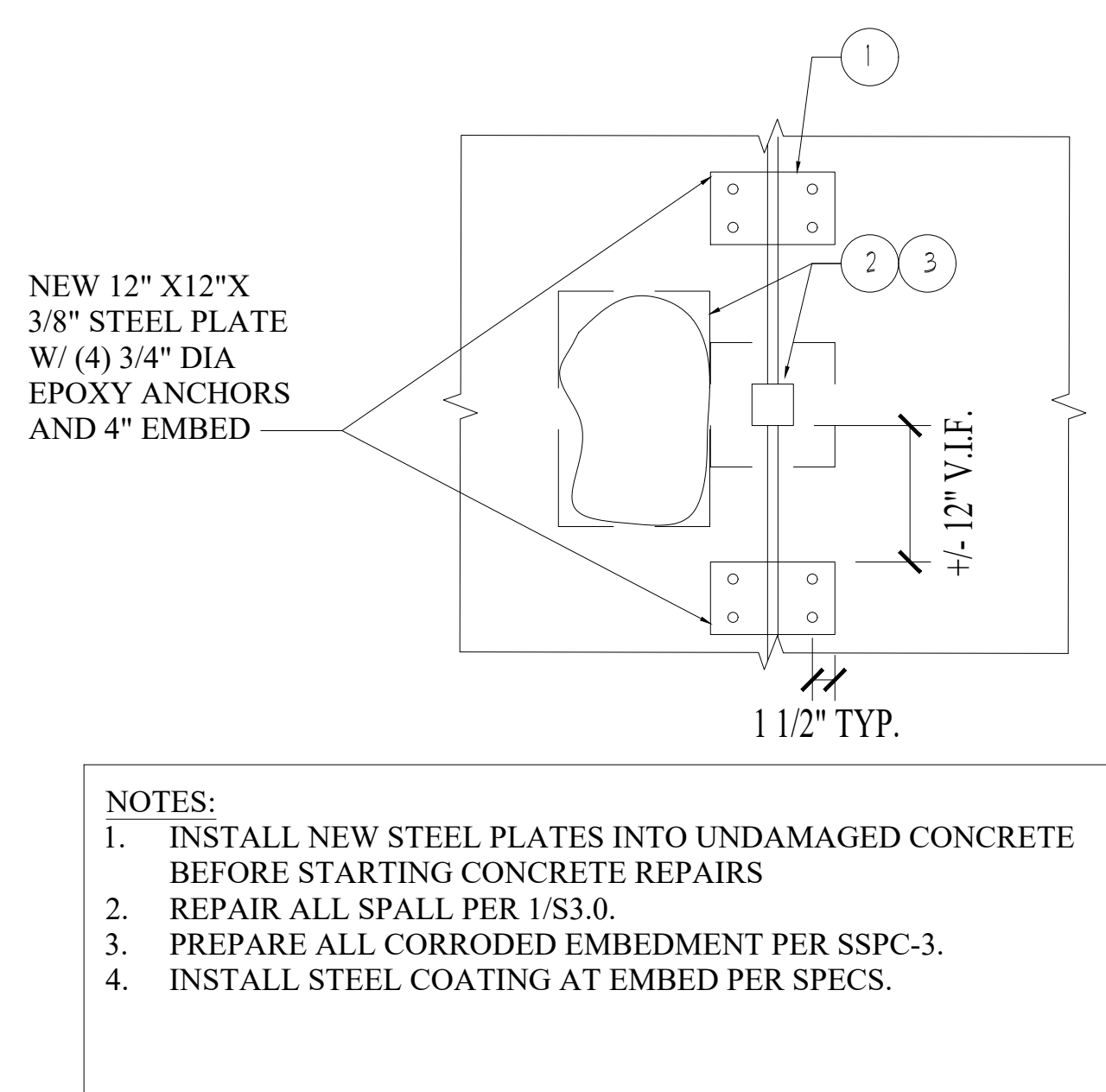


PRE-CAST CONCRETE WALL PANEL REPAIR AT CORNER
NOT TO SCALE



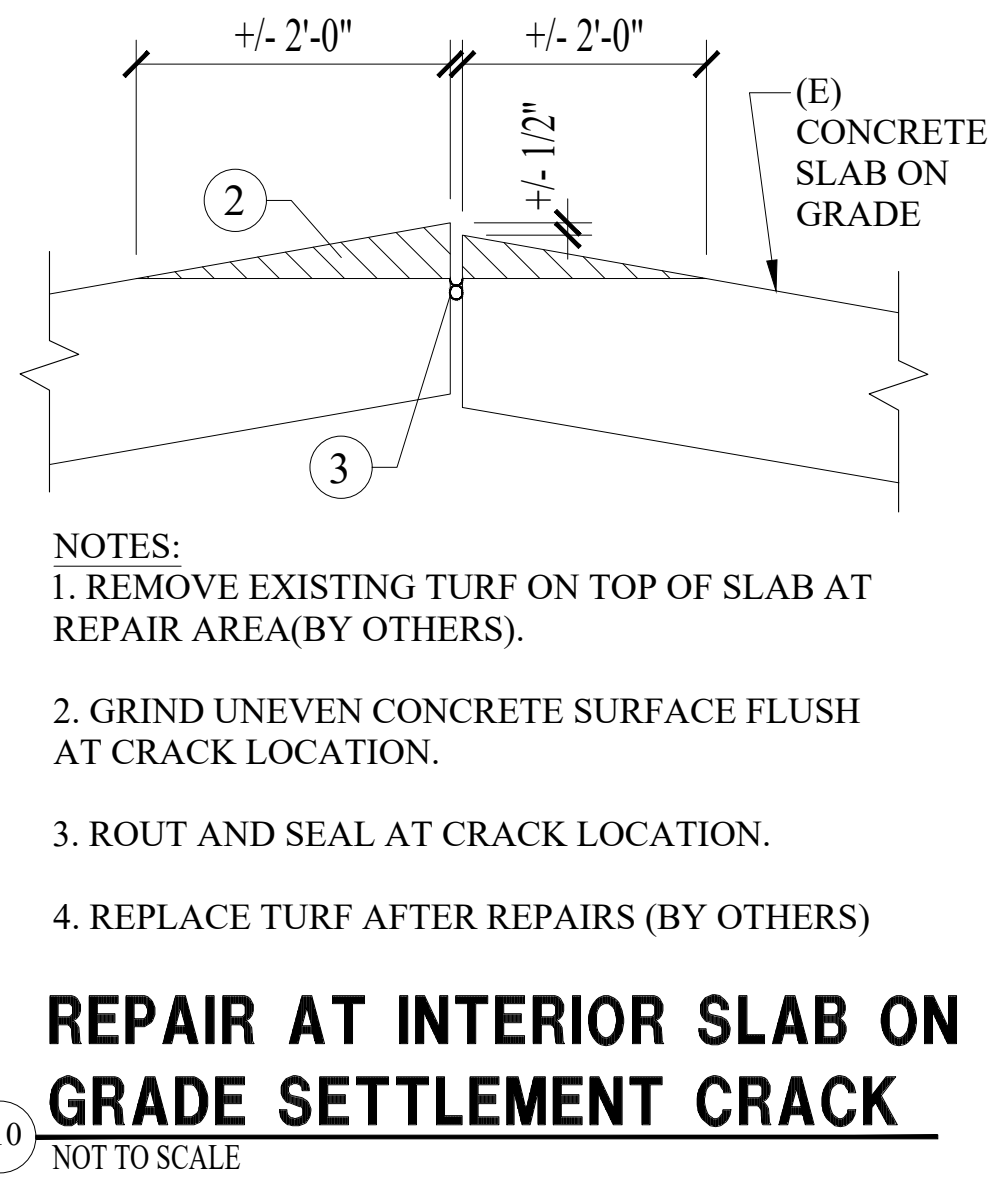
- NOTES:**
- INSTALL ANODE PER MANUFACTURER'S SPECIFICATIONS IN SLABS OR WALLS, OR AS DIRECTED BY THE ENGINEER.
 - CONCRETE PATCH MATERIALS CANNOT BE POLYMER MODIFIED WHERE ANODES ARE INSTALLED. (REFER TO SPECIFICATIONS).
 - DO NOT COAT REBAR W/ ANTI-CORROSION COATING WHERE ANODE LEADS ARE CONNECTED TO REBAR (BEFORE OR AFTER ATTACHMENT OF ANODE TO REBAR).
 - REFER TO DETAIL 7/S1.1 FOR CONTINUITY CHECK.

INSTALLATION DETAIL OF EMBEDDED ANODE
N.T.S.



- NOTES:**
- INSTALL NEW STEEL PLATES INTO UNDAMAGED CONCRETE BEFORE STARTING CONCRETE REPAIRS
 - REPAIR ALL SPALL PER 1/S3.0.
 - PREPARE ALL CORRODED EMBEDMENT PER SSPC-3.
 - INSTALL STEEL COATING AT EMBED PER SPECS.

REPAIR DETAIL AT WALL PANEL EMBED
NOT TO SCALE



REPAIR AT INTERIOR SLAB ON GRADE SETTLEMENT CRACK
NOT TO SCALE

Pennoni

5755 Rio Vista Drive
Clearwater, FL 33760-3137
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No. 93753
STATE OF FLORIDA
PROFESSIONAL ENGINEER

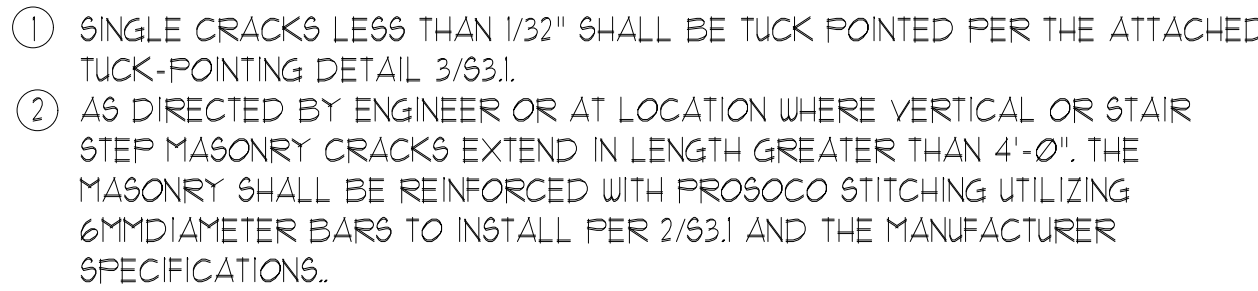
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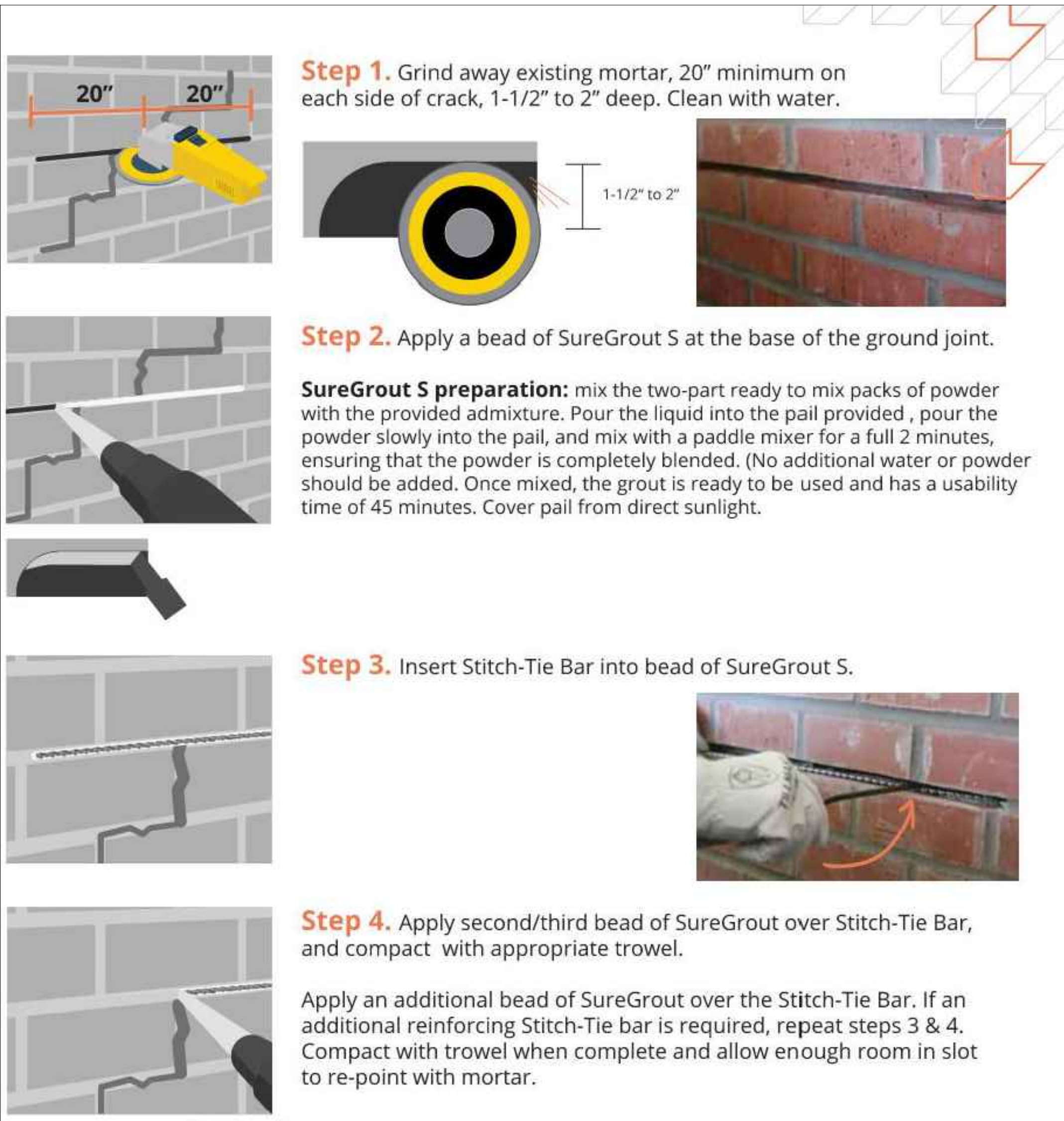
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DATE	06-15-26
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DRAWN BY	KA
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S3.0



**MASONRY CRACK(S) SINGLE STEP,
HORIZONTAL $\leq 1/32"$**



PROSOCO STITCHING INSTALLATION

Portland Cement Association

POCA ROVELTIPS

an aid to the masonry industry

Tuckpointing

Tuckpointing, also termed "repointing" or "pointing" is the replacement of cutout or defective mortar joints with new mortar. There are three reasons for repointing mortar joints: (1) necessary, (1) leaks through the mortar joints and (2) deterioration of joints. Properly executed, tuckpointing will produce a weather-resistant wall and help to preserve the structural integrity and the appearance of the masonry.

If it will be being repointed to improve its resistance to water penetration, it is recommended that all mortar joints be reported. Minute cracks that could pass a visual inspection might still allow moisture to pass through the masonry. Before the start of any tuckpointing intended to produce a weather-resistant masonry, a thorough inspection of all flashings, lintels, roofing, sills, and caulked joints should be made. Any defects in these components that may contribute to water penetration of building walls must be corrected.

If it is obvious that water is leaking through only specific sections of the masonry, it may be sufficient to report only the mortar joints in the vicinity of the leakage.

Preparation of Joints

Mortar joints should be cut out to a depth of at least 5/8 in. (16 mm), and in all cases the depth of mortar removed should be at least as great as the thickness of the mortar joint (see Fig. 1). If the mortar is unsound, the joint should be cut deeper until only sound material remains, but not more than

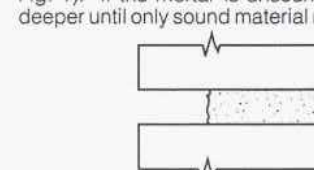


Fig. 1. Properly prepared joint.

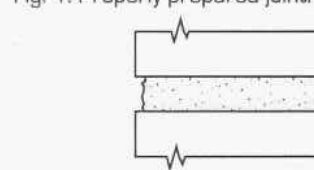


Fig. 2. Improperly prepared joint—too shallow.

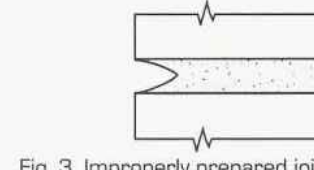


Fig. 3. Improperly prepared joint—tuck-shallow.

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Table 1. Tuckpointing Mortar (Vertical Surfaces)

Type of service	Recommended	Alternative
Interior, above grade, and exposed on one side only	1/2" or 3/4" N or K	1/2" or 3/4" N or K
Interior, above grade, and exposed on both sides	1/2" or 3/4" N or K	1/2" or 3/4" N or K
High wind or high seismic hazard	1/2" or 3/4" N or K	1/2" or 3/4" N or K
Exterior, other than above grade	N	1/2" or 3/4" N or K

(1/2" mortar joint based on average or current conditions)

*Structural conditions dictating mortar type. Supercede these mortar recommendations. For permanent repairs Types M or S with adequate frost resistance should be considered. Some extra entrainment improves freeze-thaw durability.

*Type K mortar consists of 1 part portland cement, 2 1/2 to 3 parts hydrated lime, with a sand content of 2 1/2 to 3 times the sum of the volumes of cement and lime.

*Type N mortar is recommended for use where the masonry is above ground and is unlikely to be frozen when saturated or unlikely to be subjected to high winds or other significant lateral loads. Type N or other appropriate mortar should be used in other cases.

Adapted from ASTM C270.

Vertical surfaces exposed to weathering may require the use of special mortars other than those shown in Table 1.

A recommended procedure for mixing tuckpointing mortar is: (1) thoroughly mix all of the dry ingredients; (2) mix in about half the water or enough water to produce a damp mix which will retain its shape when lightly troweled; (3) add the remainder of the water; (4) allow the mortar to stand for one hour for hydration of the cementitious materials; (5) add the remainder of the water; and then (5) add the remaining water and mix for 10 minutes.

Tuckpointing mortar should have a dryness consistency than conventional mortar for laying masonry units. Retemper as needed; however, the mortar should be discarded approximately 2 1/2 hours after the initial addition of water to the mix. Colored mortars may lighten on the addition of water; therefore, retempering of colored mortar will be consistent with caution.

Filling the Mortar Joints

The general method of applying mortar in joints is to use a hawk and a tuckpointing trowel. The hawk is used to hold a supply of mortar; it also may be used to hold the trowel adjacent to the wall just below the joint that is being filled.

The pointing trowel should be slightly narrower than the mortar joints that are being filled in order to obtain a proper degree of compaction. If the trowel does not fit into the joint, it will be more force required to obtain thoroughly compacted and completely filled joints.

Mortar should be spread into the joint in layers and firmly pressed to form a fully packed joint (see Fig. 4). Firm compaction is necessary to prevent voids as shown in Fig. 5. The use of firmly compacted mortar also helps ensure a bond to masonry units and to the old mortar. Voids are undesirable because they may trap water which can freeze and damage the new joint.

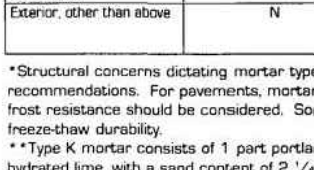


Fig. 4. Properly filled joint—pointing mortar compacted in layers.

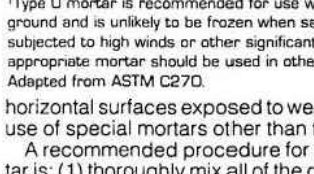


Fig. 5. Improperly filled joint—contains voids.

Tuckpointing Joints

Tuckpointing impacts the bond to a dense surface with good durability. For weatherlight construction, all mortar joints should be tuckpointed with a concave V shape. These shapes are recommended because they do allow water to rest only in the joints and they result in the mortar being pressed against both the interior and upper masonry surfaces. Tuckpointing with weatherstrips helps ensure maximum bond between the mortar and the masonry unit.

Beaded, raked, flush, stock, and weathered joints can be used for decorative effects, but are not recommended for maximum weatherlight construction. They can be used satisfactorily used for interior work and for exterior work where the masonry structure with the elements or located in climates that do not impose extremely low temperature or water saturation.

Curing and Cleaning

The curing of mortar in mortar require moisture to develop proper strength. The mixing water in the mortar will usually provide this necessary moisture. However, freshly placed mortar should be protected from the sun and drying winds. With severe drying conditions, it may be necessary to cover the masonry structure with a plastic sheet or use a fine water-fog spray on clay masonry for about 4 days to reduce evaporation of water from the mortar.

If pointing work is carefully executed, there will be little excess mortar to clean from the walls. Remove most mortar particles with a soft bristle brush after the mortar has dried but not hardened. Any hardened mortar that remains can be removed with a piece of a small rough-textured wooden paddle. After the mortar has cured, additional cleaning may be performed with water and a stiff brush. If needed, the cleaning water may be used with a high-pressure cleaning solution should be used only as a last resort and with extreme care. Improper cleaning can severely destroy the benefits sought by performing the tuckpointing.

Mortar Ingredients

Foremost among the factors that contribute to good mortar is the quality of the mortar ingredients. The following material specifications of the American Society for Testing and Materials (ASTM) or the Canadian Standards Association (CSA) are applicable:

Masonry cement—ASTM C91 (Type N), CSA A83.1—CSA-A8M

Portland cement—ASTM C150 (Types I, II, III, IIIA, IIIB, IV, IIA), CAN/CSA-A5-M (Type 10 Normal)

Blended hydraulic cement—ASTM C596 (Types IS, IS-A, IP, IP-A, IPM), or (IPM-A), CAN/CSA-A363-M (Type 10S)

Hydraulic lime for masonry purposes—ASTM C207 (Types I, II, III, IIIA, IV, IV-A)

Quartz sand for structural uses (for making lime putty)—ASTM C5

Sand—ASTM C144, CSA Standard A82.5M

For mortar joints that are less than the conventional 3/8 in. (10 mm) in thickness, 100% of the sand should pass the No. 8 (2.5 mm) sieve and 95% of the No. 16 (1.25 mm) sieve.

For mortars of any age are reported, the color and texture of new mortar should closely match that of the old mortar by specifications of the American Society for Testing and Materials. Admixtures should not be used unless specified.

* Types N and NA lime may be used only if tests or performance records show that these limes are not detrimental to the soundness of mortar.

Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077

Printed in U.S.A.

IS240.01M

TRUCKPOINTING

Additional Installation Notes:

1. When installing in a non-linear joint, the Stitch-Tie bar can be bent to follow the mortar's path or even be turned 90 degrees, wrapping a corner.
2. For areas where multiple vertical cracks are in close proximity, extend the Stitch-Tie Bar 20" past the outermost cracks. Either a longer length coil could be used and cut to size, or shorter lengths can be lapped (providing a minimum 6" overlap).
3. For multi-wythe walls, where it is observed that the crack propagates through the full thickness, the wall should be repaired on both sides, if accessible.
4. SureGrout S can be re-agitated by re-mixing the remaining contents in the pail to achieve a blended consistency again. DO NOT add additional water.
5. Under no circumstances should the grout be used where freezing may occur within 24 hours. The grout performance may be impaired if not protected from freezing.



5755 Rio Vista Drive
Clearwater, FL. 33760-3137
(727) 325-1251
Florida Coa 7819
Chakradhar Gondi, P.E.
Florida P.E. 93753
Pennoni Project No. CLWRC25022

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE NOTIFIED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK



651 NORTH OLD COACHMAN RD
CLEARWATER, FL 33765

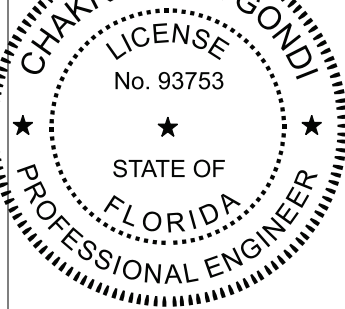
NORTH OLD COACHMAN RD
CLEARWATER, FL 33765

		BY
		REVISIONS
	NO.	DATE
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PROJECT	CLWRC25022	
DATE	06-15-26	
DRAWING SCALE	AS NOTED	
DRAWN BY	KA	
APPROVED BY	JVB	
S3.1		

S3.1

AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

This item has been electronically signed and sealed by Chakradhar Gondi PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



CARPENTER COMPLEX
2026 STRUCTURAL REPAIRS

651 NORTH OLD COACHMAN RD
CLEARWATER, FL 33765

[illegible]

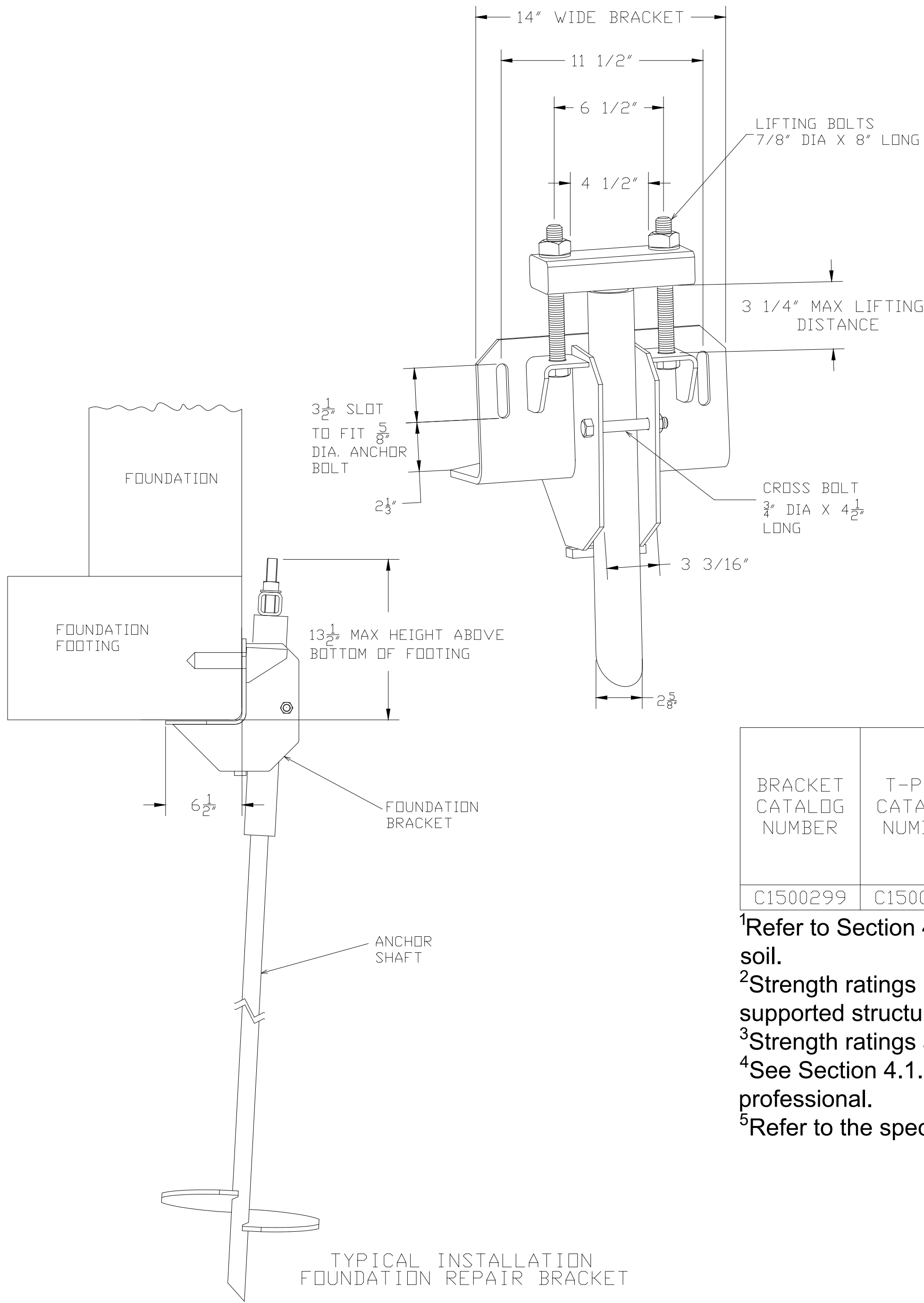
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PROJECT	CLWRC25022
DATE	06-15-26
DRAWING SCALE	AS NOTED
DRAWN BY	KA
APPROVED BY	JVB

S3.2

-NOTES-

1. HOT DIP GALVANIZE PER ASTM A153-(LATEST REVISION).
2. ASSEMBLE COMPLETE AS SHOWN IN SIDE VIEW.
3. THE NUTS ON THE LIFTING BOLTS AND CROSS BOLTS MUST BE TIGHTENED TO ACHIEVE A SNUG-TIGHT CONDITION AS DEFINED IN SECTION J3 OF AISC 360-05; AS A MINIMUM, NUTS MUST BE TIGHTENED 1/4 TURN BEYOND HAND TIGHT CONDITION. DO NOT EXCEED 165 FT-LB OF TORQUE ON LIFTING BOLTS DURING STABILIZATION OR LOAD LOCK OFF.
4. RECOMMENDED ANCHOR SHAFT CUTOFF LEVEL ABOVE THE BOTTOM OF THE FOOTING IS 10" TO 11" FOR MAXIMUM LIFT DISTANCE.
5. FOR DETAILED INSTALLATION INSTRUCTIONS, READ CHANCE BULLETIN 01-9812.
6. MATERIAL SPECIFICATIONS:
BRACKET BODY : PER ASTM A36 AND ASTM A570 GR. 50.
T-PIPE TUBE : HOT ROLLED MECHANICAL TUBING PER ASTM A500.
LIFTING BOLTS : HEX HEAD BOLT PER ASTM A325, TYPE 1.
CROSS BOLT : HEX HEAD BOLT PER ASTM A325, TYPE 1.
7. SEE ICC-ES EVALUATION SERVICE, INC., EVALUATION REPORT NO. ESR-2794 FOR STRENGTH VALUES AND/OR CONDITIONS OF USE CONCERNING INFORMATION PRESENTED ON THIS DRAWING.



BRACKET CATALOG NUMBER	T-PIPE CATALOG NUMBER	PILE MODEL	ASD ALLOWABLE STRENGTH IN AXIAL COMPRESSION (kips) ^{1,2,3,4}					
			2500 psi CONCRETE ⁵		3000 psi CONCRETE ⁵		4000 psi CONCRETE ⁵	
			FIRM SOIL	SOFT SOIL	FIRM SOIL	SOFT SOIL	FIRM SOIL	SOFT SOIL
C1500299	C1500488	SS175	36.8	27.7	41.7	30.2	49.5	30.2

¹Refer to Section 4.1.3 of ESR-2794 for descriptions of fixed condition, pinned condition, soft soil and firm soil.

²Strength ratings include an allowance for corrosion over a 50-year service life and presume the supported structure is braced in accordance with IBC Section 1808.2.5.

³Strength ratings apply to the specific bracket, T-pipe and anchor/pile models listed.

⁴See Section 4.1.2 of ESR-2794 for applicable limit states that must be evaluated by a registered design professional.

⁵Refer to the specified compressive strength of concrete at 28 days.

ICC-ES LISTED
ESR-2794

CHANCE TOLERANCE CHART		 HUBBELL® POWER SYSTEMS			
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SIZE	DWG. NO.	CAT / PART / ASSY NO.	REV		
C	SA150-0298	SA150-0298	E		
DO NOT SCALE ORIGIN		DRN BY DMP	SHEET 1/1		

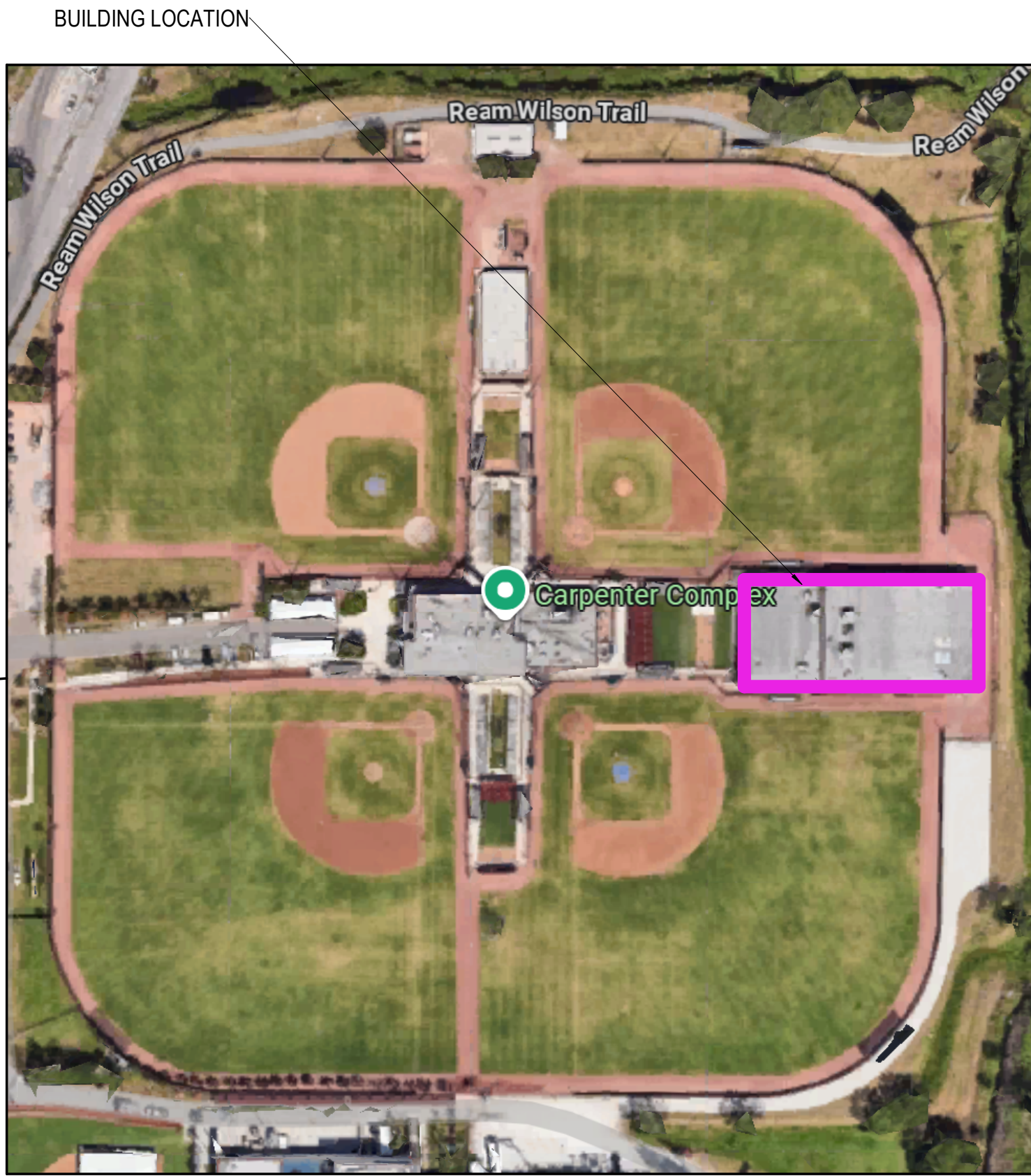
DETAIL

SCALE : N.T.S.

FOR REFERENCE ONLY



VICINITY MAP



SITE MAP

651 Old Coachman Rd.,
Clearwater, FL 33765

GENERAL CODE NOTES

CONSTRUCTION SHALL COMPLY WITH:

1. FLORIDA BUILDING CODE 2023 8TH EDITION INCLUDING SUPPLEMENTS
2. FLORIDA BUILDING CODE: MECHANICAL 2023 8TH EDITION
3. FLORIDA FIRE PREVENTION CODE - 8TH EDITION
4. NFPA 70 (NATIONAL ELECTRIC CODE) 2020 EDITION
5. ASCE 7-22
6. SREF 2023
7. APPLICABLE LOCAL AND STATE CODES AND ZONING
8. MIAMI-DADE
9. CHARLOTTE COUNTY SCHOOL DISTRICT
10. CHARLOTTE COUNTY FIRE REVIEW
11. DISTRICT DESIGN GUIDELINES AND MASTER SPECIFICATIONS
12. PERMITS AND PROJECT SIGNAGE SHALL BE POSTED FOR THE DURATION OF THE PROJECT
13. UTILITY AND METER CONNECTION FEES ARE TO BE OBTAINED AND PAID FOR BY THE GENERAL CONTRACTOR
14. SMACNA - ARCHITECTURAL SHEET METAL MANUAL

PROJECT: PHILLIES TRAINING COMPLEX EXTERIOR REPAIRS
ARCHITECT OF RECORD: BEAM PROFESSIONALS

SCOPE OF WORK

THE PROPOSED SCOPE OF WORK CONSISTS OF PMMA ROOF RECOVER, ALSO, FULL EXTERIOR PAINT REMOVAL WITH RECOVER THAT CONSIST OF PENETRATING SEALER AND NEW FINISH PAINT COAT AT ALL VERTICAL CONCRETE SURFACES INCLUDING WALLS, RETAINING WALLS, AND STAIR STRUCTURES. COLORS AND LOCATION ARE TO BE COORDINATED WITH OWNER.

1. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL CONDUCT A FIELD SURVEY AND RECORD THE SITE, EXTERIOR, AND INTERIOR BUILDING CONDITIONS AT BUILDING IN SCOPE, LAY DOWN AREA AND PATHS OF TRAVEL OF EQUIPMENT. SUBMIT ALL PHOTOS TO THE ARCHITECT.
2. EXISTING STRUCTURES, FINISHES, OR OTHER BUILDING COMPONENTS NOT DESIGNATED FOR DEMOLITION OR REMOVAL, AND COMPONENTS DEFINED WITHIN THE DOCUMENTS TO BE SALVAGED, RELOCATED, OR REUSED SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT DAMAGE. DAMAGE SUSTAINED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO MATCH ORIGINAL CONDITION BY CONTRACTOR AT NO EXPENSE TO OWNER. SEE GENERAL CONDITIONS AND SUPPLEMENTAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.

SHEET NUMBER	SHEET NAME
ARCHITECTURAL	
G-000	COVER SHEET
ARCHITECTURAL GENERAL	
G-001	GENERAL PROJECT INFORMATION
ARCHITECTURAL	
A-201	OVERALL ELEVATIONS
A-301	OVERALL ROOF PLAN

PHILLIES TRAINING
COMPLEX EXTERIOR
REPAIRS
651 Old Coachman Rd., Clearwater, FL 33765
CONSTRUCTION DOCUMENTS

KEY PLAN
NORTH PLAN TRUE



CLIENT		
CITY OF CLEARWATER FACILITIES		
DATE	PROJECT NUMBER	
3/23/2026	260001	
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No.	Description	Date
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DRAWN BY: CB		

GENERAL PROJECT
INFORMATION

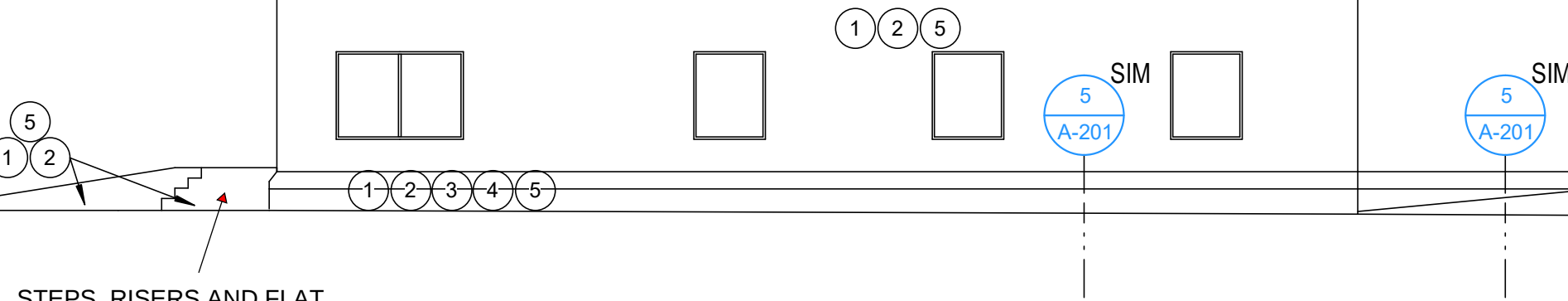


WALL AT THIS LOCATION IS INCLUDED IN SCOPE OF WORK

DETERMINE FINAL WALL COLOR PALETTE AND LOCATIONS OF SAID COLORS WITH OWNER PRIOR TO COATING WALLS.

PRESERVE PAINTED ON LOGOS BY PAINTING WALL SURFACES AROUND LOGOS. COVER ALL LOGOS PRIOR TO PAINTING TO NOT DAMAGE/ ACCIDENTALLY PAINT OVER THEM.

AWNING NOT INCLUDED IN SCOPE



STEPS, RISERS AND FLAT WALKWAY NOT INCLUDED IN SCOPE

David P. Montgomery
Baseball Performance Center

PHILLIES

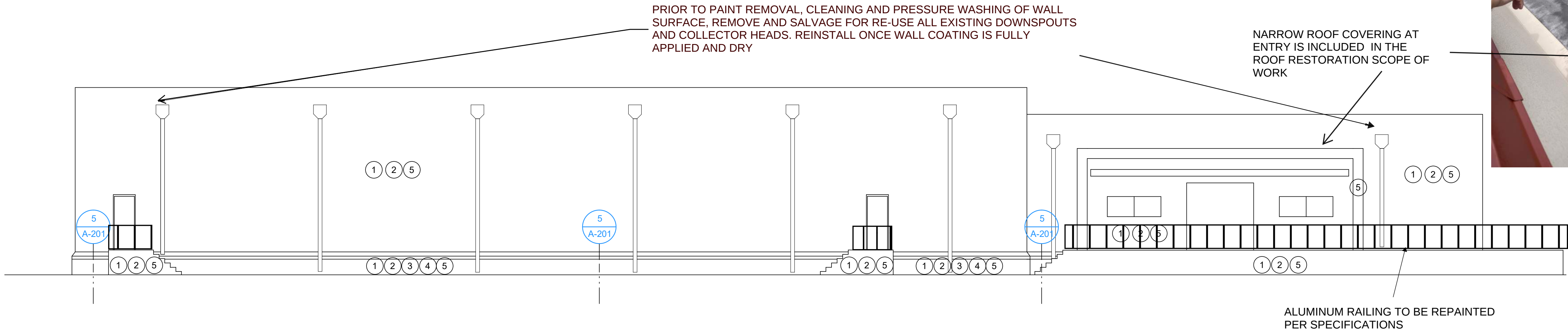
HORIZONTAL CONCRETE WALK WAY SURFACES, INCLUDING STEPS AND RISERS ARE NOT INCLUDED

STEPS, RISERS AND FLAT WALKWAY NOT INCLUDED IN SCOPE

1 SOUTH ELEVATION
1" = 10'-0"

- 1 REMOVE EXISTING PAINT DOWN TO CONCRETE ON ALL CONCRETE SURFACES INCLUDING RETAINER WALLS, STAIRS, AND ALL TILT-UP WALLS. PRESSURE WASH SURFACE USING MIN PSI 2500. EXTEND PAINT REMOVAL TO BELOW GRADE MIN. 4".
- 2 REPAIR CRACKS WITH CRYSTALLINE SILICA AND PORTLAND CEMENT MIXTURE (GEL PATCH) FORMULATED FOR CONCRETE CRACK REPAIR. (SEE SPECIFICATIONS - SIKAMANCO 425 GEL PATCH OR SIMILAR). DYNAMIC CRACKING IS TO BE REPAIRED BY OTHERS
- 3 ALONG LOWER STEM WALL/ AUXILIARY POUR THAT EXTENDS BELOW GRADE, REMOVE EXISTING SEALANT AND GROUT CONNECTING IT TO THE TILT-UP WALL PANEL.
- 4 **PENETRATING WALL SEALANT** - APPLY TO THE LOWER AUXILIARY. SEE DETAIL 5 THIS SHEET. REPLACE JOINTS BETWEEN AUXILIARY POUR AND TILT-UP WALL WITH BACKER ROD AND URETHANE SEALANT TO ENCLOSE GAPS.
- 5 **FINISH COATING SYSTEM** - APPLY TO ALL CONCRETE SURFACES INCLUDING AUXILIARY POUR, TILT UP PANELS AND STEM WALLS.

4 KEYNOTES
1 1/2" = 1'-0"



PRIOR TO PAINT REMOVAL, CLEANING AND PRESSURE WASHING OF WALL SURFACE, REMOVE AND SALVAGE FOR RE-USE ALL EXISTING DOWNSPOUTS AND COLLECTOR HEADS. REINSTALL ONCE WALL COATING IS FULLY APPLIED AND DRY

NARROW ROOF COVERING AT ENTRY IS INCLUDED IN THE ROOF RESTORATION SCOPE OF WORK

DETERMINE FINAL WALL COLOR COLORS WITH OWNER PRIOR TO

ALUMINUM RAILING TO BE REPAINTED PER SPECIFICATIONS

2 NORTH ELEVATION
1" = 10'-0"

DETERMINE FINAL WALL COLOR PALETTE AND LOCATIONS OF SAID COLORS WITH OWNER PRIOR TO COATING WALLS.

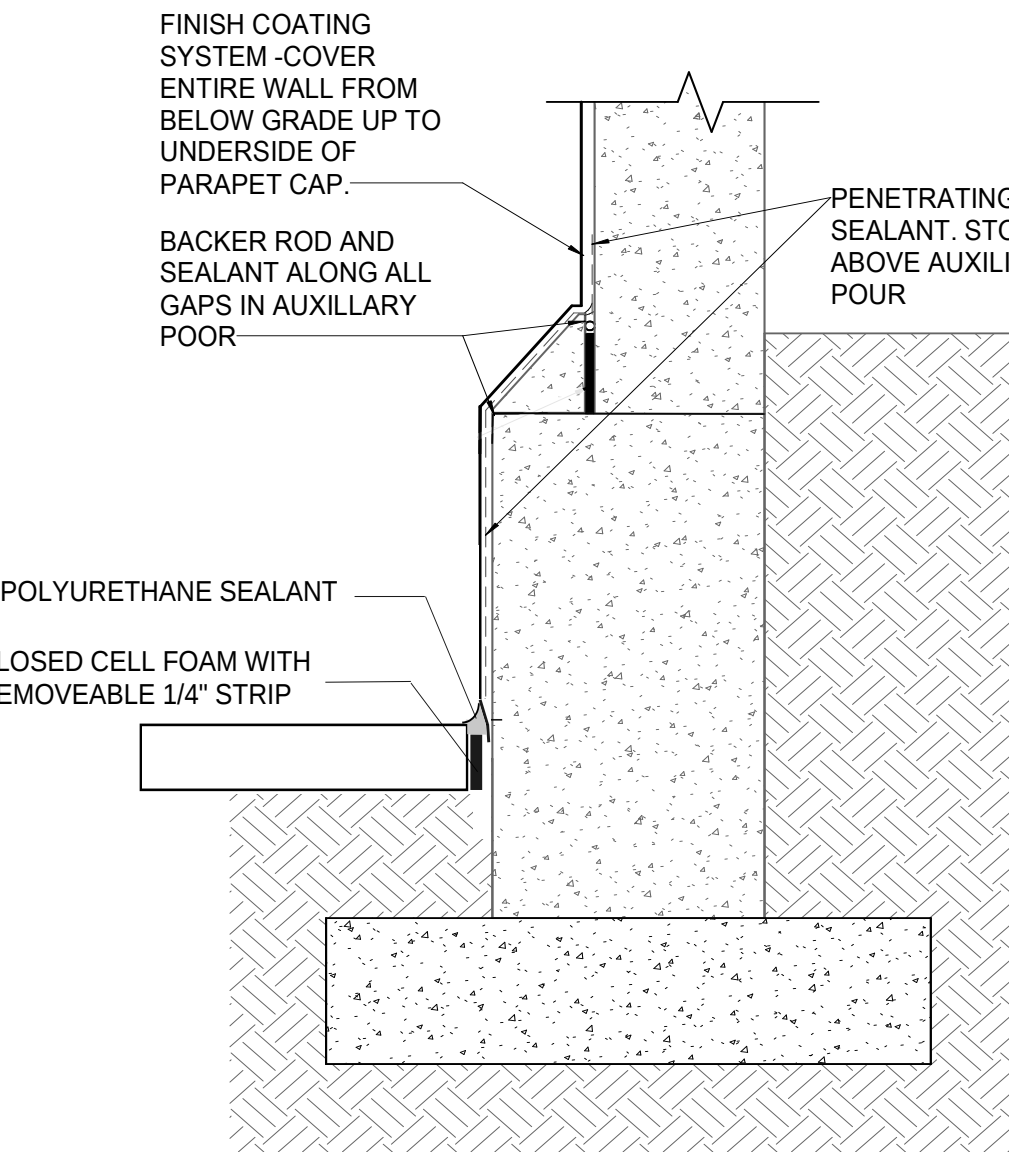
DETERMINE FINAL WALL COLOR PALETTE AND LOCATIONS OF SAID COLORS WITH OWNER PRIOR TO COATING WALLS.

PAINTED LOGO PRESERVATION BY CONTRACTOR
IF NO PRESERVATION IS NEEDED, INSTALL FINISH COAT OVER EXISTING LOGOS.

3 EAST ELEVATION
1" = 10'-0"

7 WEST ELEVATION
1" = 10'-0"

5 WALL SECTION DETAIL (GRADE)
1" = 1'-0"



6 WALL SECTION DETAIL (SIDEWALK)
1" = 1'-0"

PHILLIES TRAINING
COMPLEX EXTERIOR
REPAIRS
651 Old Coachman Rd., Clearwater, FL 33765
CONSTRUCTION DOCUMENTS

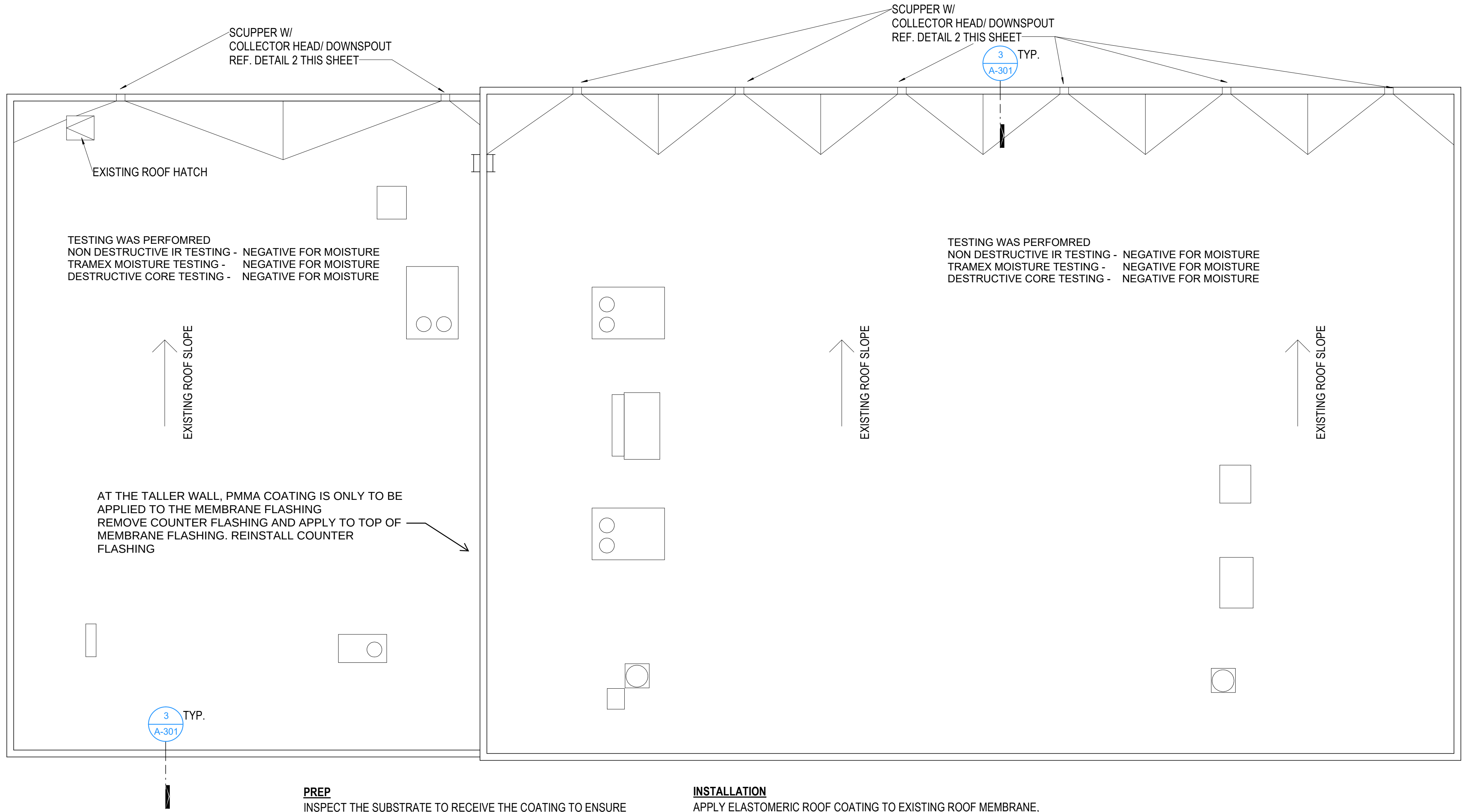
KEY PLAN
NORTH PLAN TRUE



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CITY OF CLEARWATER FACILITIES		
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DRAWN BY: CB		

OVERALL
ELEVATIONS

A-201

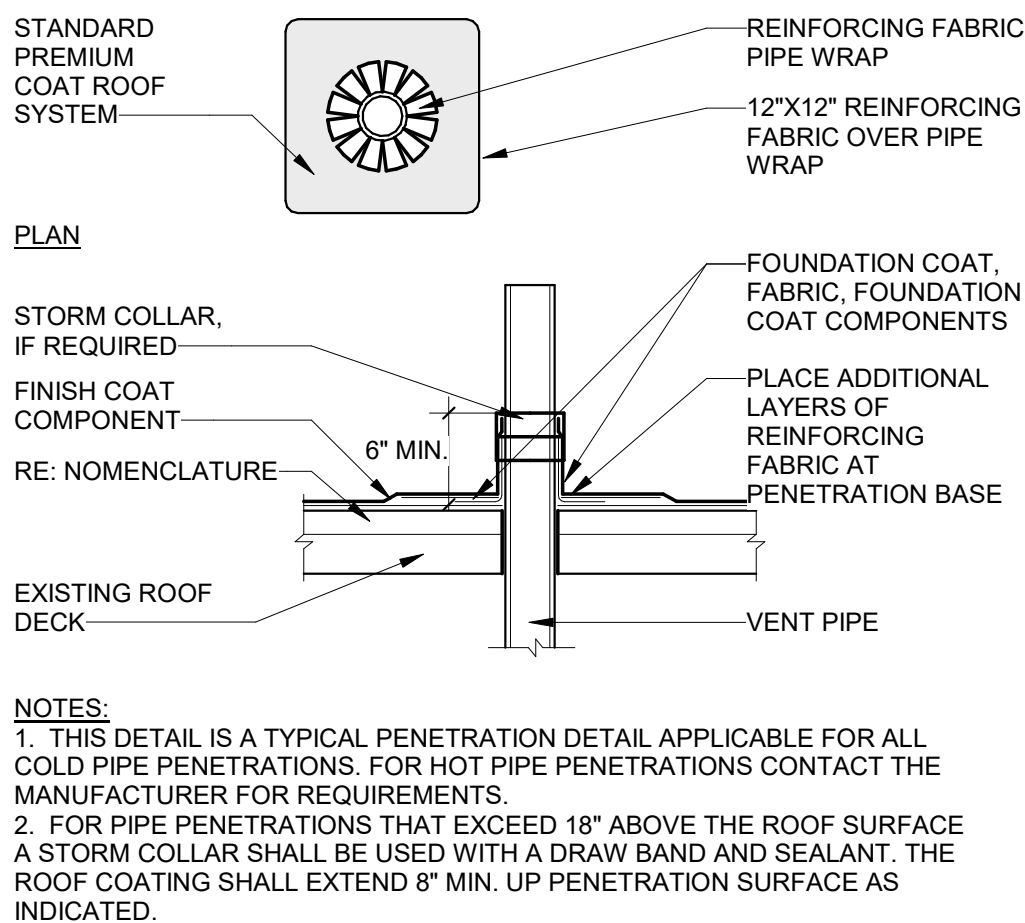
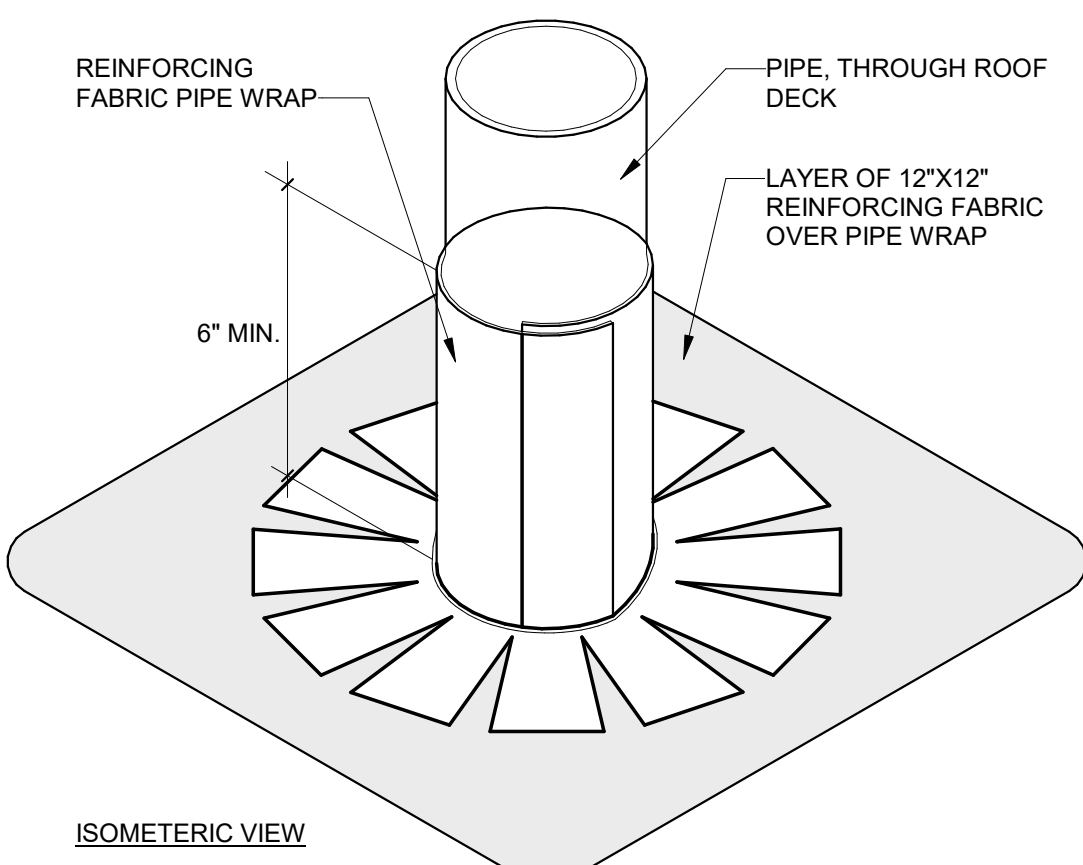
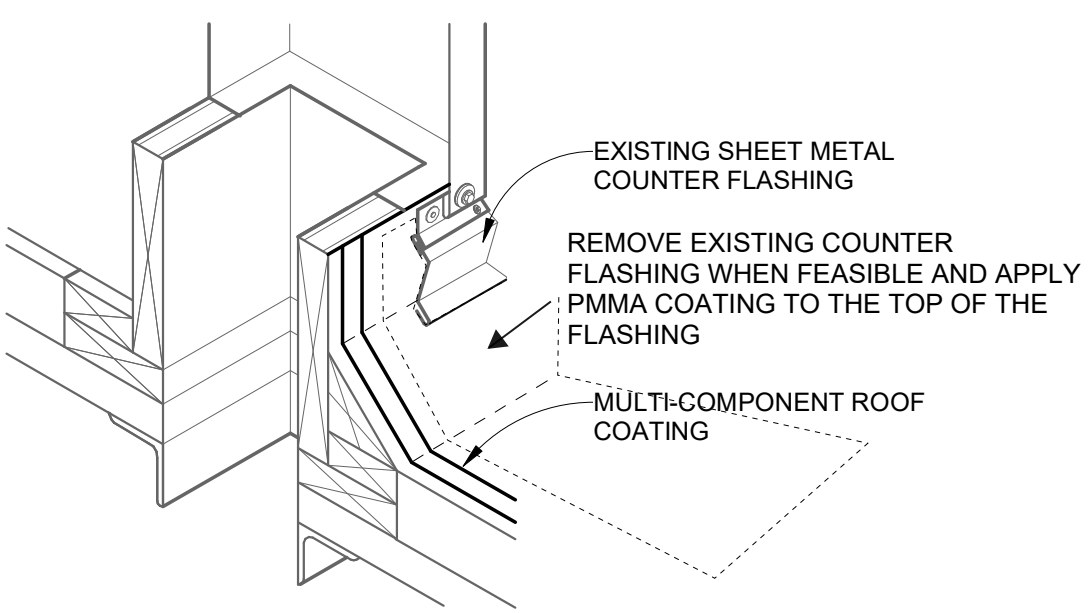
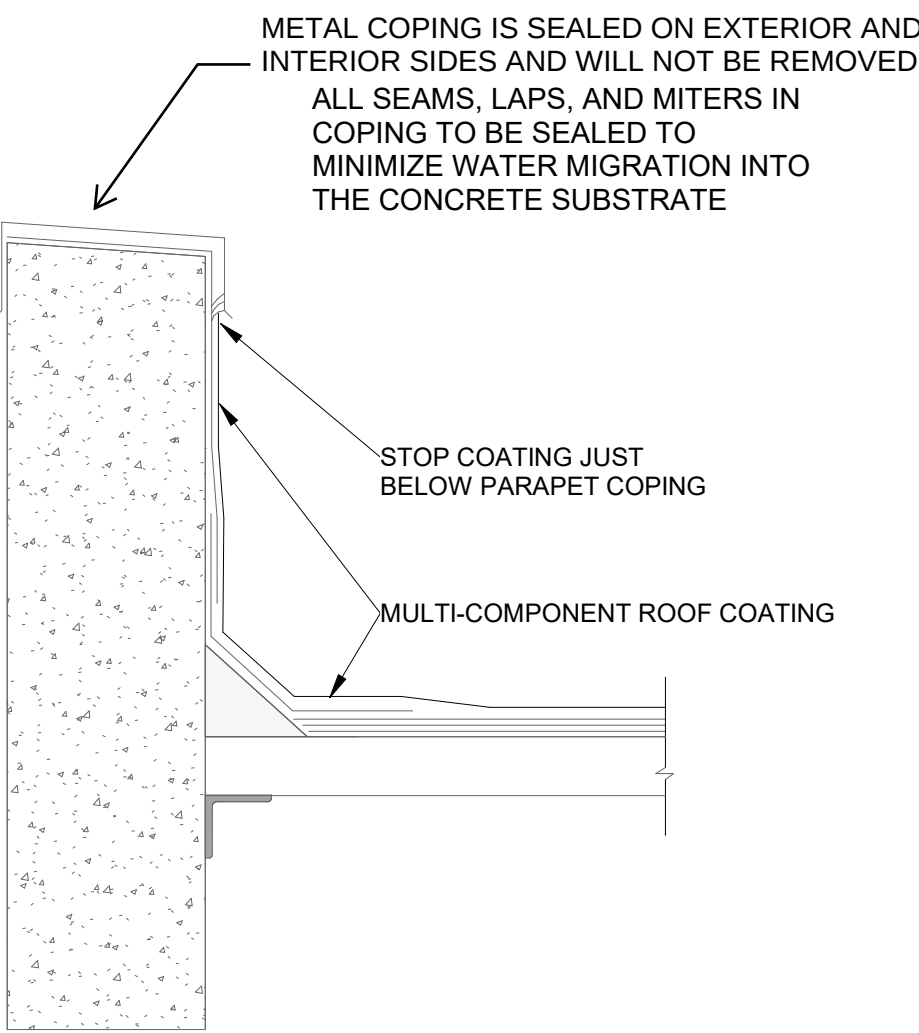
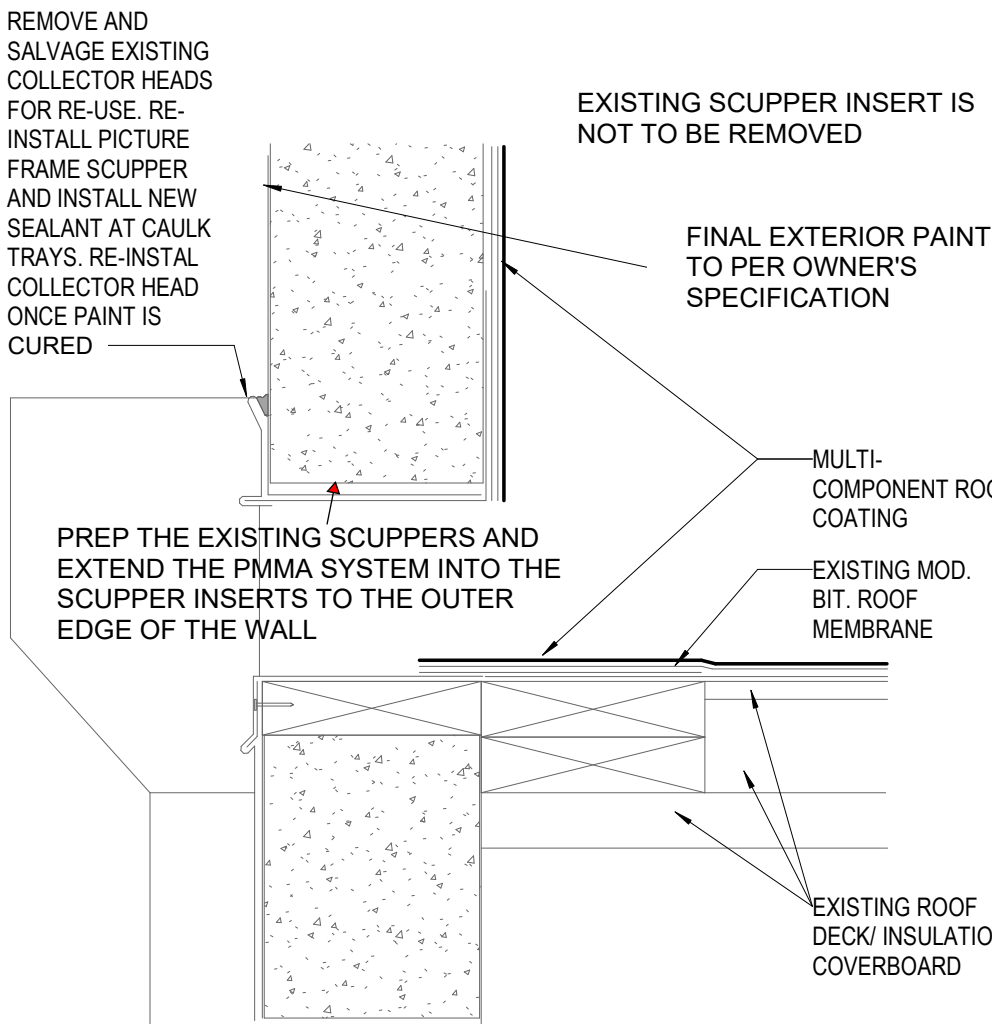


PREP
INSPECT THE SUBSTRATE TO RECEIVE THE COATING TO ENSURE THAT SURFACES ARE CLEAN, SMOOTH, SOUND, AND FREE OF MOISTURE, DIRT, DEBRIS, OR CONTAMINATION. VERIFY THAT ROOF PENETRATIONS, MECHANICAL EQUIPMENT, CANTS, EDGE METAL, AND RELATED ON-ROOF ITEMS ARE PROPERLY INSTALLED, SECURE AND IN A CONDITION SUITABLE FOR COATING APPLICATION. VERIFY THAT AIR CONDITIONING AND AIR INTAKE VENTS ARE SUITABLY PROTECTED OR CLOSED.

INSTALLATION
APPLY ELASTOMERIC ROOF COATING TO EXISTING ROOF MEMBRANE. COAT ALL CURBS AND PARAPETS EXTENDING NEW COAT UP TO METAL FLASHINGS AND COPING METAL FLASHINGS. INSTALL AROUND PENETRATIONS.

1. CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND WARRANTY REQUIREMENTS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL, AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
3. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
4. PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.

1 ROOF PLAN - SCOPE
1" = 10'-0"



2 ROOFING (COAT) - SCUPPER
1 1/2" = 1'-0"

3 ROOFING (COAT) - PARAPET WALL FLASHING
1 1/2" = 1'-0"

4 ROOFING (COAT) - EQUIPMENT CURB FLASHING
1 1/2" = 1'-0"

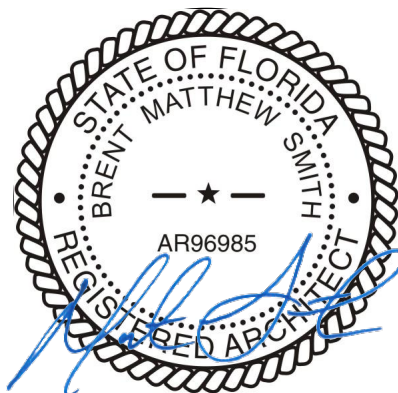
6 ROOFING (COAT) - PLUMBING VENT FLASHING
1 1/2" = 1'-0"

5 GENERAL NOTES
1 1/2" = 1'-0"

**PHILLIES TRAINING
COMPLEX EXTERIOR
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KEY PLAN

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OVERALL ROOF PLAN