

NOT TO SCALE

1 IMAGE BY GOGGLE

## GENERAL NOTES

- THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE 1 DRAWINGS. IN THE EVENT OF A CONFLICT, NOTIFY THE ENGINEER FOR CLARIFICATION.
- BEFORE EXECUTING ANYTHING HEREIN SHOWN, EXAMINE ACTUAL JOB CONDITIONS. 2. REPORT ANY DISCREPANCY, DIMENSIONAL OR OTHERWISE, BETWEEN DRAWINGS AND ANY OTHER ERROR, OMISSION, OR DIFFICULTY AFFECTING THE WORK TO THE ENGINEER FOR REVIEW PRIOR TO BIDDING. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO BIDDING.
- ANY CONDITION ENCOUNTERED IN THE EXISTING STRUCTURAL SYSTEM WHICH IS 3. DIFFERENT FROM THAT INDICATED IN DRAWINGS OR WHICH MIGHT CREATE A FAILURE OR HAZARD SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE BASED ON SURVEYS 4. MADE BY THE CONSULTANT(S) AS WELL AS ON MATERIAL PROVIDED BY THE OWNER. NO CLAIM IS MADE AS TO ITS COMPLETENESS AND/OR ACCURACY AND MAY NOT BE A COMPLETELY ACCURATE DEPICTION OF EXISTING BUILDING CONDITIONS AND CONFIGURATIONS. FIELD VERIFY EXISTING BUILDING CONDITIONS, DIMENSIONS, AND CONFIGURATIONS PRIOR TO BIDDING, NOTIFY ENGINEER OF DISCREPANCIES FOR REVIEW.
- ALL DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED 5. TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

THE PLANS ARE BASED ON THE SITE SURVEYS. 6.

# DESIGN

2.

- 1. CODES, SPECIFICATIONS, AND STANDARDS.
  - a) ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE 2018 AS AMENDED AND ADOPTED BY THE COLUMBIA, MISSOURI.
  - BUILDING CODE INFORMATION.
    - OCCUPANCY GROUP B, CONSTRUCTION TYPE 1A. a)
    - AREA UNDER CONSTRUCTION APPROXIMATELY 9,600 SQUARE FEET. b)
    - BUILDING ADDRESS 901 EAST BROADWAY, COLUMBIA, MISSOURI. C)
    - OWNER: COMMERCE BANK, 1000 WALNUT, KANSAS CITY, MO 64106 d)

PROJECT NAME: 9TH AND BROADWAY BUILDING EXTERIOR RESTORATION. e)

ABBREVIATIONS RI = REPAIR ITEM

- MIN = MINIMUM.
- MAX = MAXIMUM
- TC = TERRA COTTA.

TC ARMATURE = METAL FABRICATION THAT MAY CANTILEVER DESIGNED TO SUPPORT TERRA COTTA UNITS. THE ARMATURE MAY CONSIST OF METAL PLATES, ANGLES, CHANNELS, EMBEDDED BOLTS AND OTHER METAL.

DOWN STACK TC = DISASSEMBLE TERRA COTTA UNITS TRACKING THE UNI, ITS PLACEMENT AND ANCHORAGE TO ALLOW FOR ITS REINSTALLATION TO MATCH PRECONSTRUCTION CONDITIONS. UP STACKING TC = REASSEMBLY OF THE TC UNITS TO THEIR ORIGINAL POSITION AND ANCHORAGE.

NOT ALL ABBREVIATIONS SHOWN INQUIRE WITH ENGINEER FOR OTHER



SITE PHOTOGRAPH NOT TO SCALE



COLOR LINES DENOTE EXTENT OF SIDEWALK PROTECTION, AS A MINIMUM, PROVIDE THE FOLLOWING.

1. METAL WALK-THROUGH SCAFFOLDING WITH WOOD DECKING ABOVE SIDEWALK.

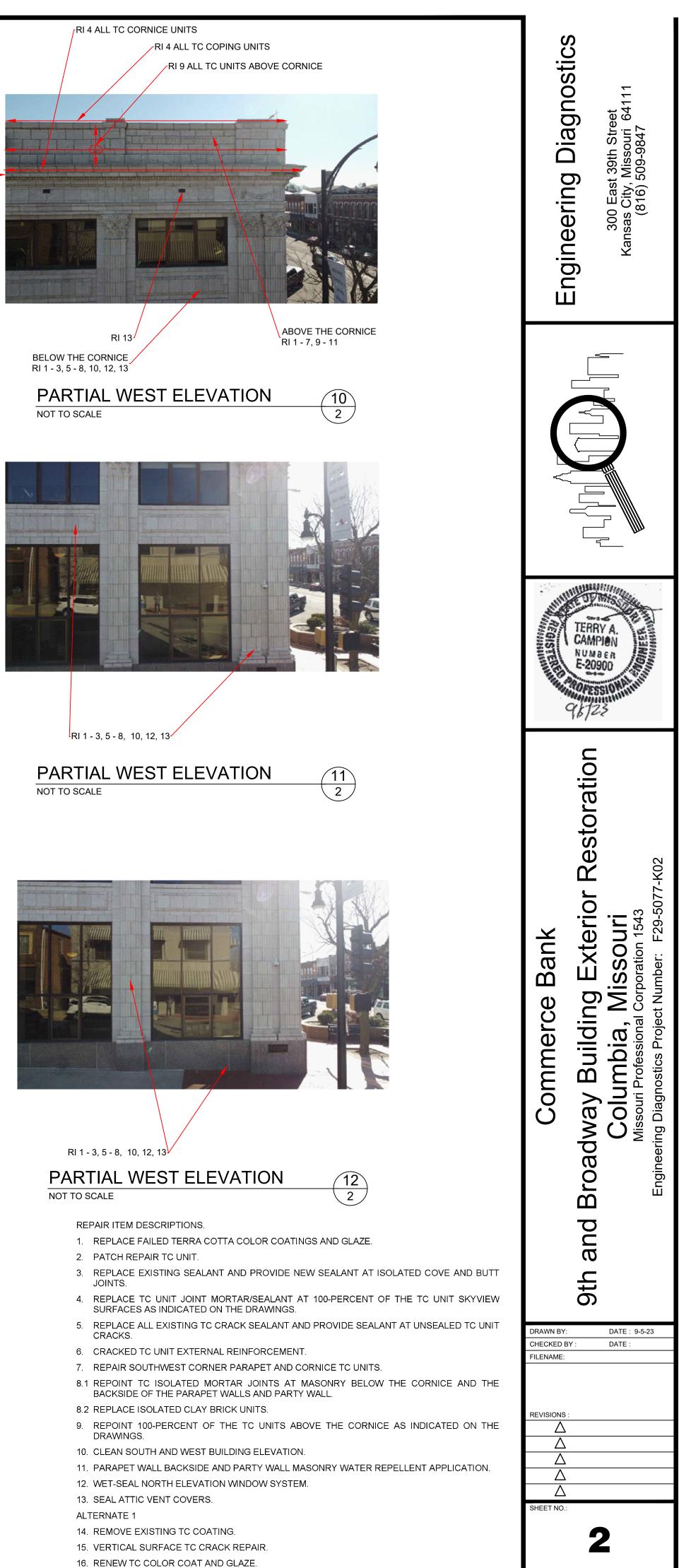
2. PROVIDE STREET SIDE MINIMUM - 4'-0" HIGH BARRIER WALL ON FIRST LEVEL ABOVE STREET TO DETER SCAFFOLD CLIMBERS.

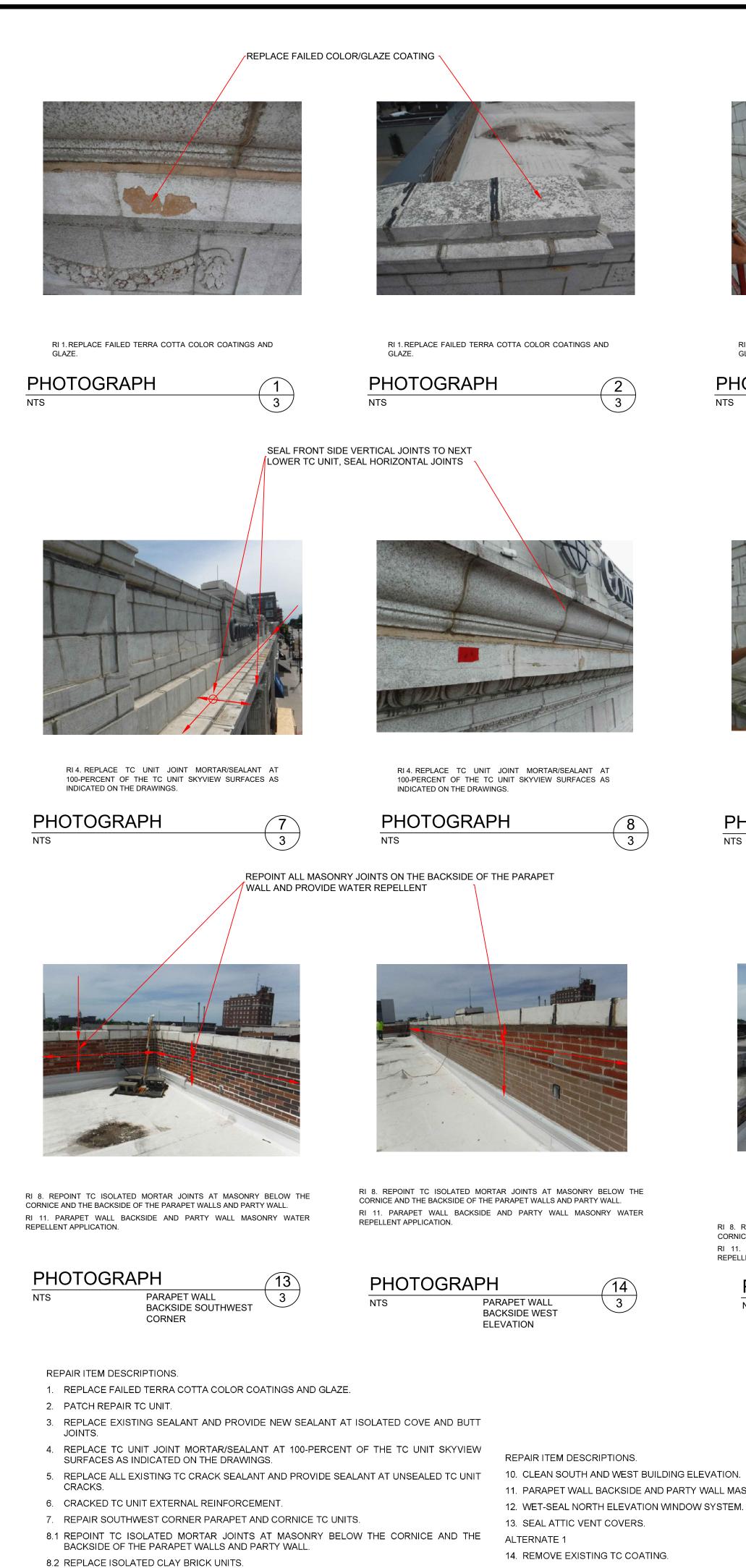
3. PROVIDE STREET LEVEL SCAFFOLD LEG COVER CONSISTING OF WOOD, HEAVY REINFORCED FABRIC, SCREEN MESH OR OTHER EFFECTIVE LEG WRAP TO PREVENT CLIMBING SCAFFOLD LEG.



S Ö



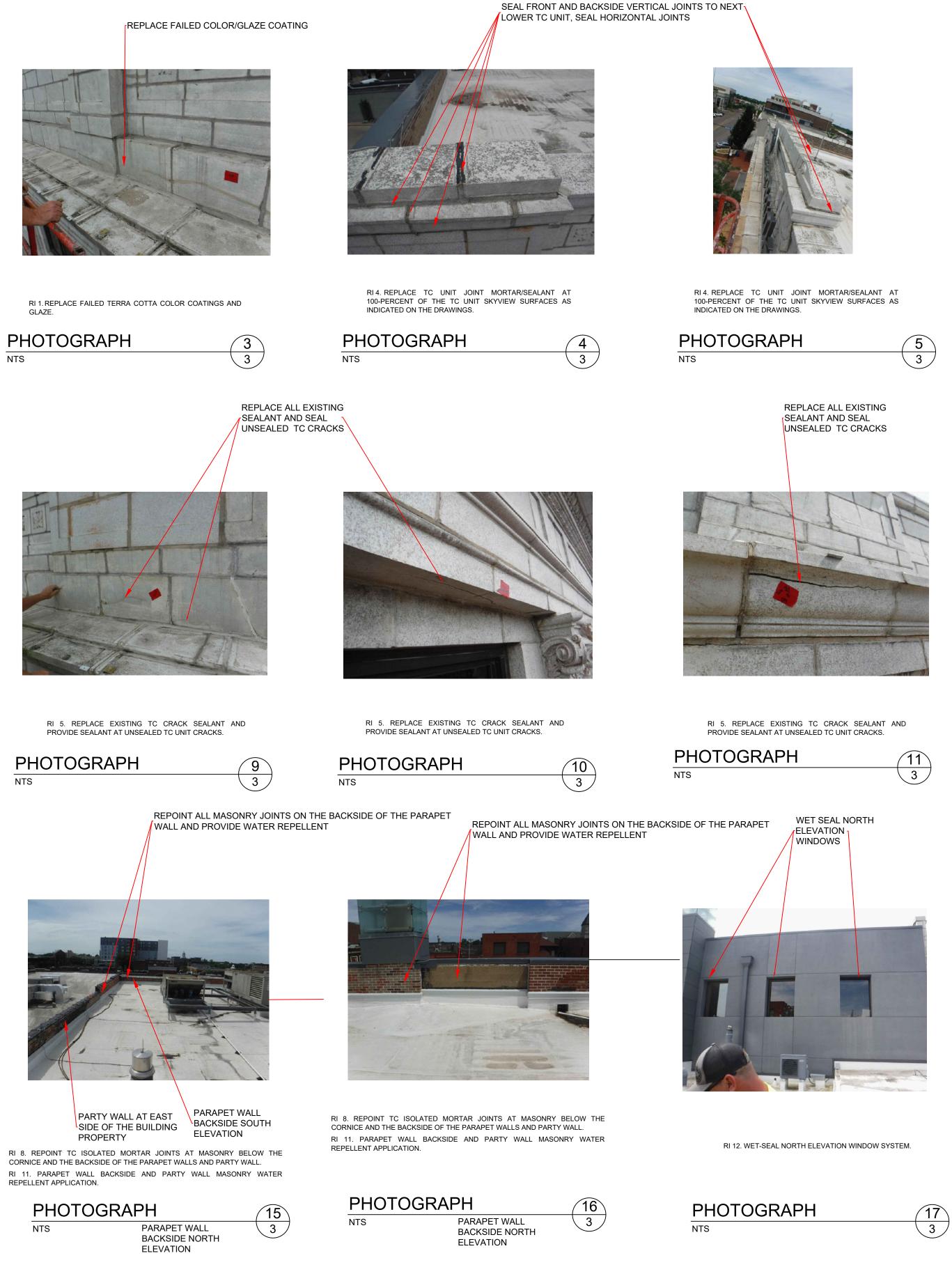




9. REPOINT 100-PERCENT OF THE TC UNITS ABOVE THE CORNICE AS INDICATED ON THE DRAWINGS.

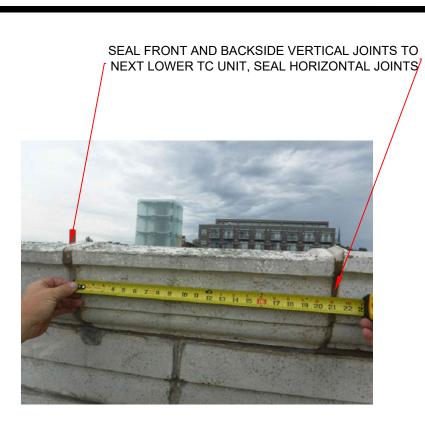
15. VERTICAL SURFACE TC CRACK REPAIR.

16. RENEW TC COLOR COAT AND GLAZE.



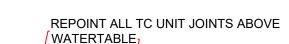
11. PARAPET WALL BACKSIDE AND PARTY WALL MASONRY WATER REPELLENT APPLICATION.





RI 4. REPLACE TC UNIT JOINT MORTAR/SEALANT AT 100-PERCENT OF THE TC UNIT SKYVIEW SURFACES AS INDICATED ON THE DRAWINGS. PHOTOGRAPH 

NTS

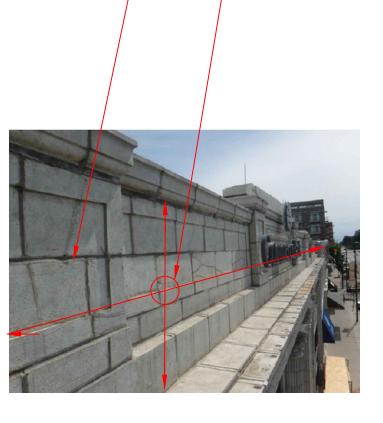


3

- 3

 $\overline{18}$ 

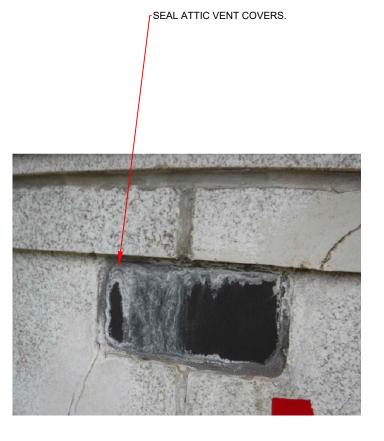
 $\langle 3 \rangle$ 



RI 9. REPOINT 100-PERCENT OF THE TC UNITS ABOVE THE CORNICE AS INDICATED ON THE DRAWINGS.

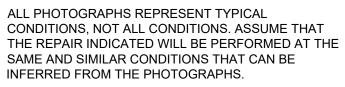
PHOTOGRAPH

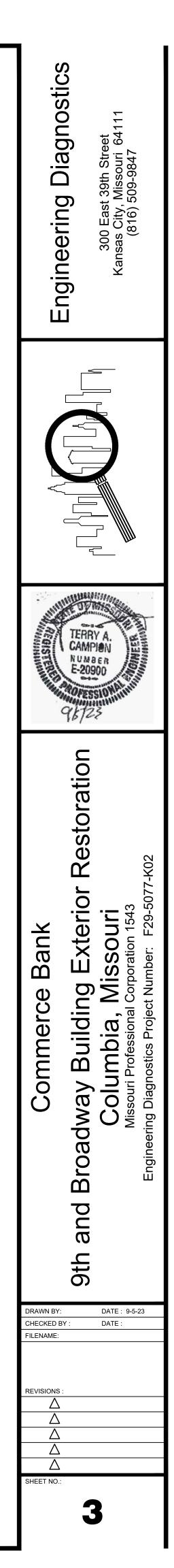
NTS

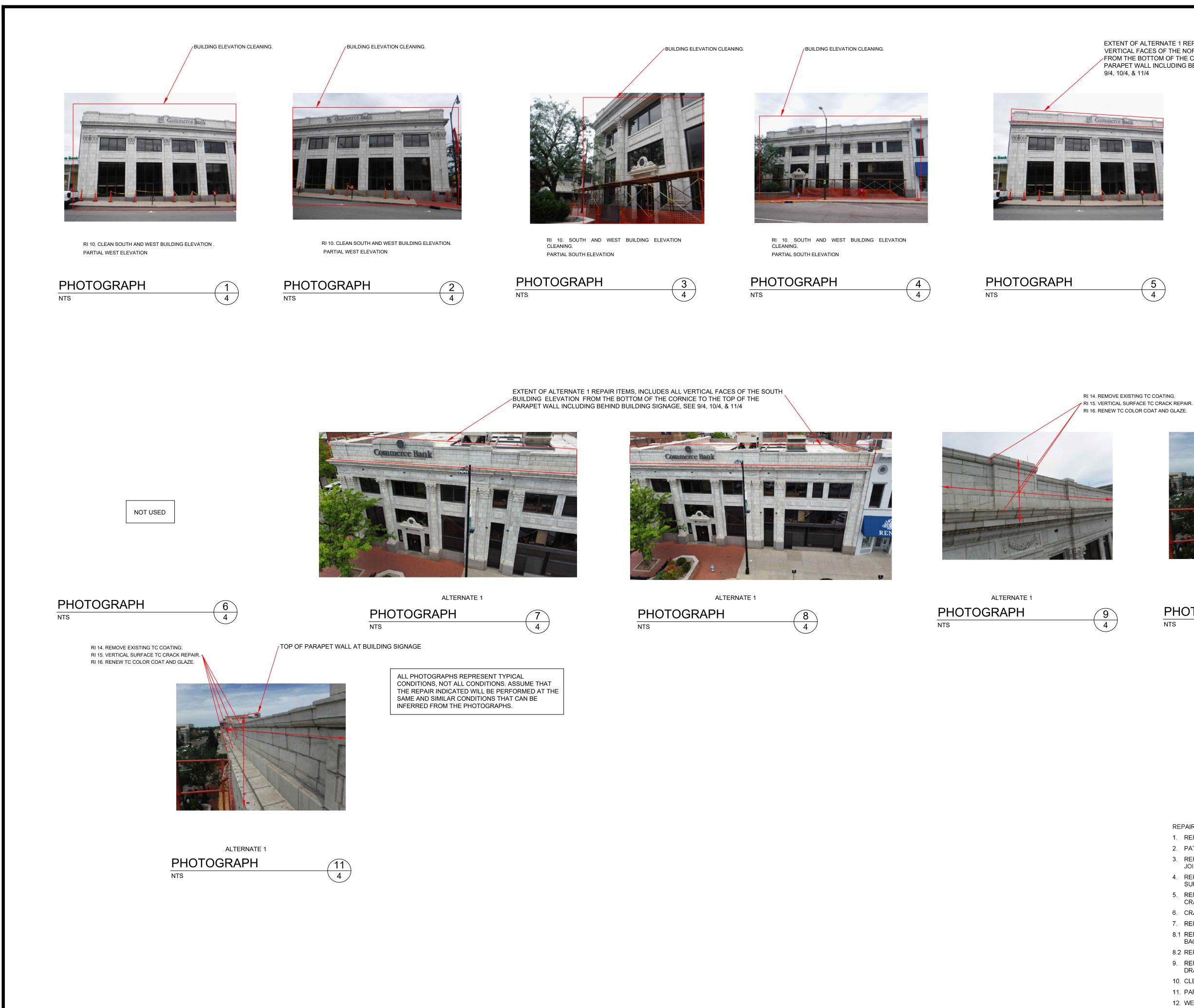


RI 13. SEAL ATTIC VENT COVERS.









- 16. RENEW TC COLOR COAT AND GLAZE.
- 14. REMOVE EXISTING TC COATING.

- 15. VERTICAL SURFACE TC CRACK REPAIR.

ALTERNATE 1

PHOTOGRAPH

NTS

9

4

Diagnostics

ering

Ð

ngine

Ш

NUMBER

ation

sto

Φ Ň

xterior

Building Ext mbia, Misso

adway Buildi Columbia, <sup>Missouri Professiona</sup>

σ 0 Ш

and

9th

RAWN BY:

ILENAME:

REVISIONS :

 $\Delta$ 

 $\Delta$ 

 $\Delta$ 

HEET NO

HECKED BY :

DATE: 9-5-23

DATE :

Bank

Commerce

OUTI Ion 1543

64 64

50 Å

300 East sas City, (816) (

Str

DRAWINGS.

EXTENT OF ALTERNATE 1 REPAIR ITEMS, INCLUDES ALL

VERTICAL FACES OF THE NORTH BUILDING ELEVATION FROM THE BOTTOM OF THE CORNICE TO THE TOP OF THE PARAPET WALL INCLUDING BEHIND BUILDING SIGNAGE, SEE

9/4, 10/4, & 11/4

5

4

TOP OF PARAPET WALL AT BUILDING SIGNAGE

 $\overline{10}$ 

- ALTERNATE 1

REPAIR ITEM DESCRIPTIONS.

2. PATCH REPAIR TC UNIT.

JOINTS.

CRACKS.

1. REPLACE FAILED TERRA COTTA COLOR COATINGS AND GLAZE.

7. REPAIR SOUTHWEST CORNER PARAPET AND CORNICE TC UNITS.

BACKSIDE OF THE PARAPET WALLS AND PARTY WALL.

SURFACES AS INDICATED ON THE DRAWINGS.

6. CRACKED TC UNIT EXTERNAL REINFORCEMENT.

10. CLEAN SOUTH AND WEST BUILDING ELEVATION.

12. WET-SEAL NORTH ELEVATION WINDOW SYSTEM.

8.2 REPLACE ISOLATED CLAY BRICK UNITS.

3. REPLACE EXISTING SEALANT AND PROVIDE NEW SEALANT AT ISOLATED COVE AND BUTT

4. REPLACE TC UNIT JOINT MORTAR/SEALANT AT 100-PERCENT OF THE TC UNIT SKYVIEW

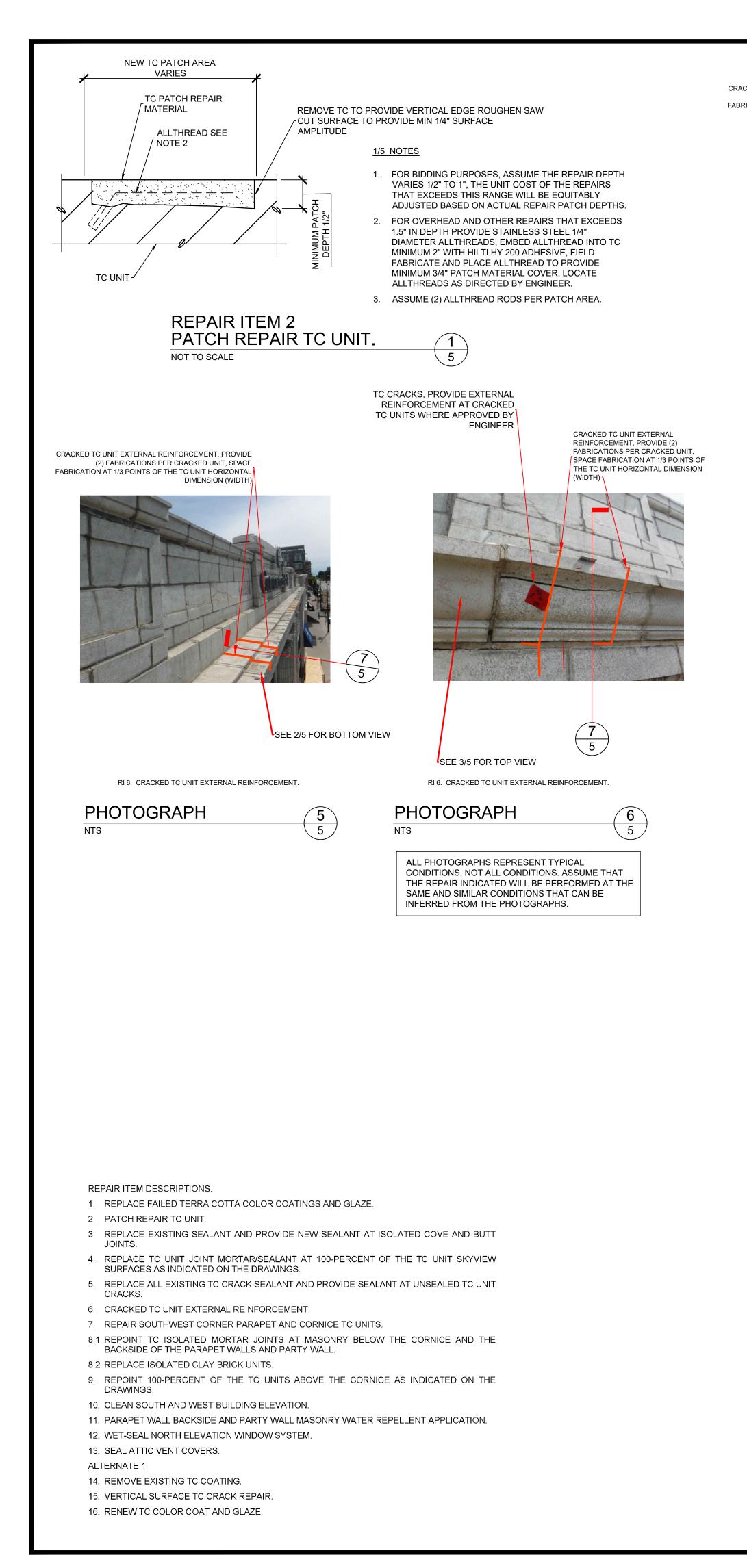
5. REPLACE ALL EXISTING TC CRACK SEALANT AND PROVIDE SEALANT AT UNSEALED TC UNIT

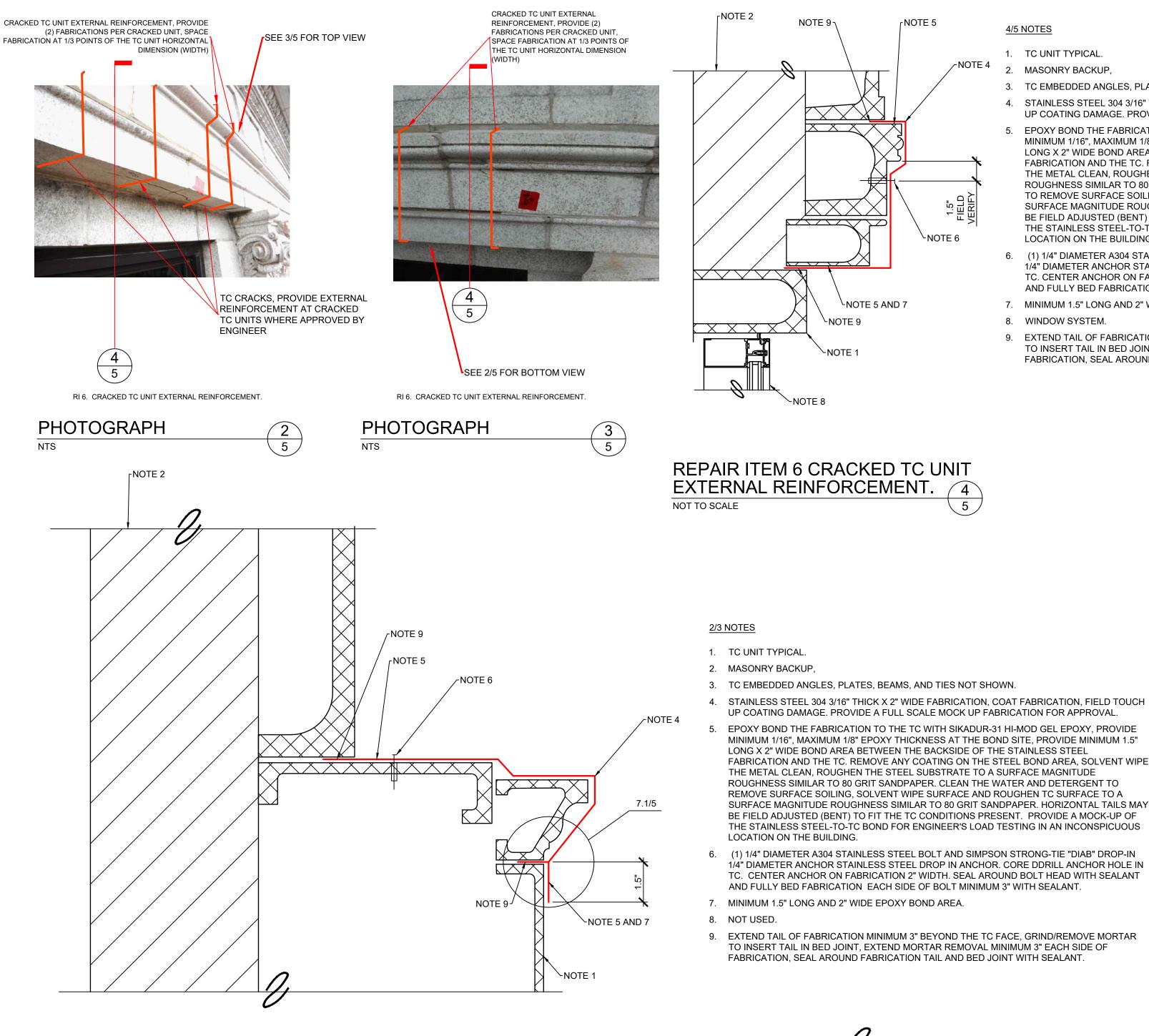
8.1 REPOINT TC ISOLATED MORTAR JOINTS AT MASONRY BELOW THE CORNICE AND THE

9. REPOINT 100-PERCENT OF THE TC UNITS ABOVE THE CORNICE AS INDICATED ON THE

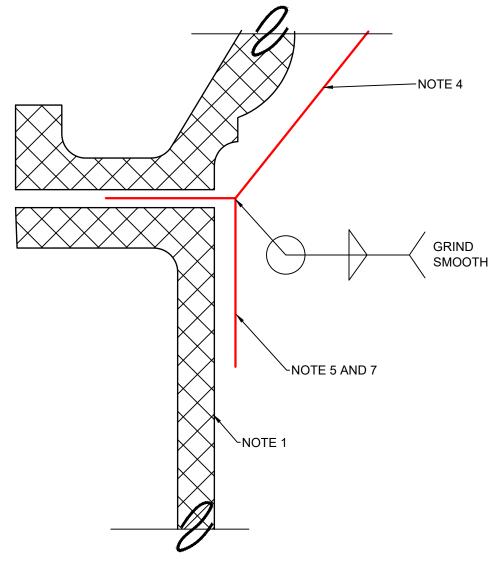
11. PARAPET WALL BACKSIDE AND PARTY WALL MASONRY WATER REPELLENT APPLICATION.

- 13. SEAL ATTIC VENT COVERS.









DETAIL NOT TO SCALE

### 4/5 NOTES

- 1. TC UNIT TYPICAL
- 2. MASONRY BACKUP,
- 3. TC EMBEDDED ANGLES, PLATES, BEAMS, AND TIES NOT SHOWN.
- 4. STAINLESS STEEL 304 3/16" THICK X 2" WIDE FABRICATION, COAT FABRICATION, FIELD T UP COATING DAMAGE. PROVIDE A FULL SCALE MOCK UP FABRICATION FOR APPROVAL.

5. EPOXY BOND THE FABRICATION TO THE TC WITH SIKADUR-31 HI-MOD GEL EPOXY, PROVI MINIMUM 1/16", MAXIMUM 1/8" EPOXY THICKNESS AT THE BOND SITE, PROVIDE MINIMUM 7 LONG X 2" WIDE BOND AREA BETWEEN THE BACKSIDE OF THE STAINLESS STEEL FABRICATION AND THE TC. REMOVE ANY COATING ON THE STEEL BOND AREA, SOLVENT THE METAL CLEAN, ROUGHEN THE STEEL SUBSTRATE TO A SURFACE MAGNITUDE ROUGHNESS SIMILAR TO 80 GRIT SANDPAPER. CLEAN THE TC WITH WATER AND DETER TO REMOVE SURFACE SOILING, SOLVENT WIPE SURFACE AND ROUGHEN TC SURFACE SURFACE MAGNITUDE ROUGHNESS SIMILAR TO 80 GRIT SANDPAPER. HORIZONTAL TAILS BE FIELD ADJUSTED (BENT) TO FIT THE TC CONDITIONS PRESENT. PROVIDE A MOCK-UP THE STAINLESS STEEL-TO-TC BOND FOR ENGINEER'S LOAD TESTING IN AN INCONSPICU LOCATION ON THE BUILDING.

6. (1) 1/4" DIAMETER A304 STAINLESS STEEL BOLT AND SIMPSON STRONG-TIE "DIAB" DROP 1/4" DIAMETER ANCHOR STAINLESS STEEL DROP IN ANCHOR. CORE DDRILL ANCHOR HOI TC. CENTER ANCHOR ON FABRICATION 2" WIDTH. SEAL AROUND BOLT HEAD WITH SEALA AND FULLY BED FABRICATION EACH SIDE OF BOLT MINIMUM 3" WITH SEALANT.

- 7. MINIMUM 1.5" LONG AND 2" WIDE EPOXY BOND AREA.
- 8. WINDOW SYSTEM.
- 9. EXTEND TAIL OF FABRICATION MINIMUM 3" BEYOND THE TC FACE, GRIND/REMOVE MORT TO INSERT TAIL IN BED JOINT, EXTEND MORTAR REMOVAL MINIMUM 3" EACH SIDE OF FABRICATION, SEAL AROUND FABRICATION TAIL AND BED JOINT WITH SEALANT.

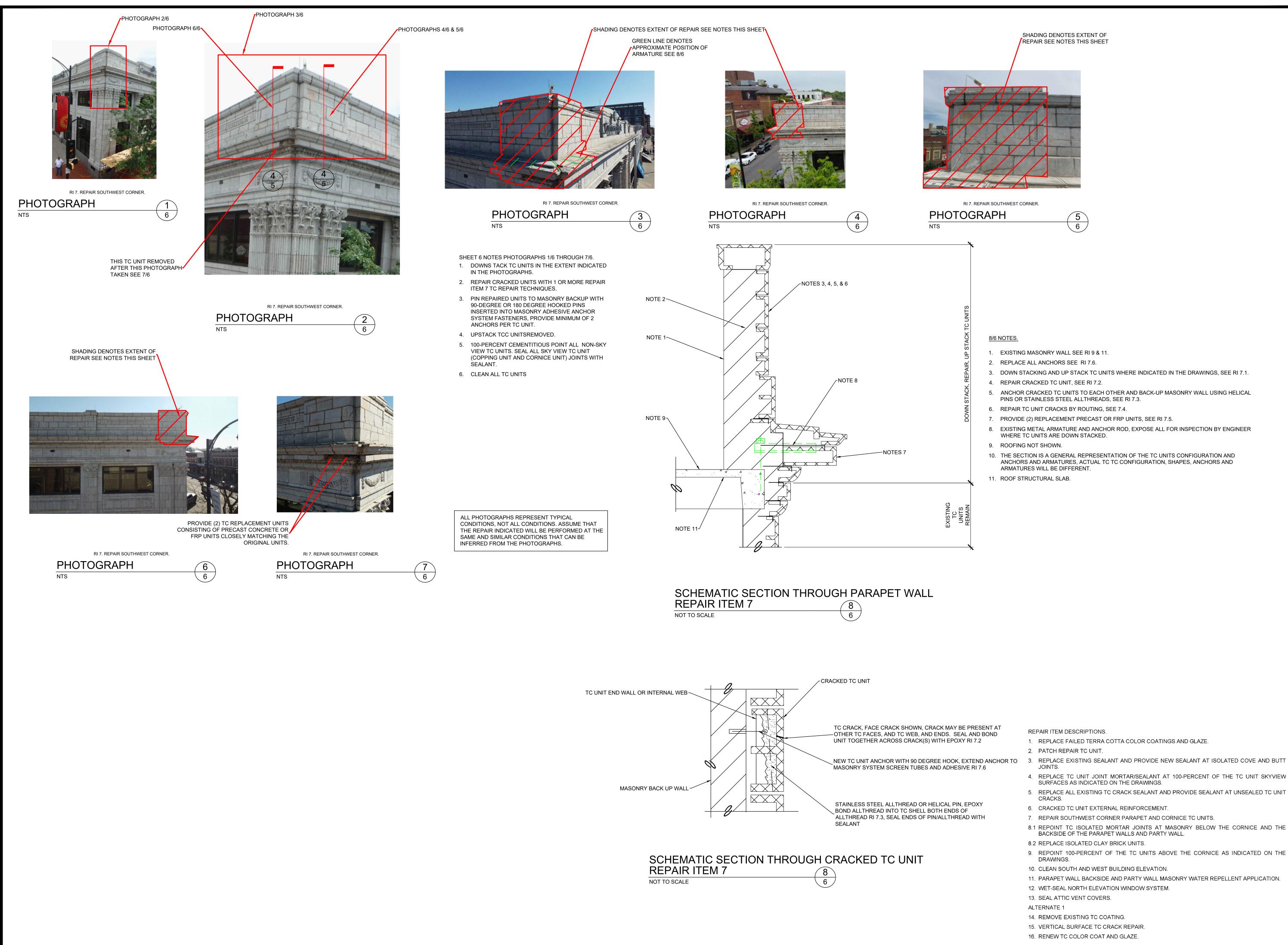
FABRICATION AND THE TC. REMOVE ANY COATING ON THE STEEL BOND AREA, SOLVENT WIPE SURFACE MAGNITUDE ROUGHNESS SIMILAR TO 80 GRIT SANDPAPER. HORIZONTAL TAILS MAY BE FIELD ADJUSTED (BENT) TO FIT THE TC CONDITIONS PRESENT. PROVIDE A MOCK-UP OF

(1) 1/4" DIAMETER A304 STAINLESS STEEL BOLT AND SIMPSON STRONG-TIE "DIAB" DROP-IN 1/4" DIAMETER ANCHOR STAINLESS STEEL DROP IN ANCHOR. CORE DDRILL ANCHOR HOLE IN TC. CENTER ANCHOR ON FABRICATION 2" WIDTH. SEAL AROUND BOLT HEAD WITH SEALANT



OUCH /IDE I 1.5" T WIPE GENT TO A .S MAY O OF JOUS P-IN DLE IN ANT	Endingering Disgnactice		300 East 39th Street Kansas Citv. Missouri 64111	(816) 509-9847	
TAR					
	AFGISTERIUM	TERR CAMP NUMB E-209 POFES	Y A. VA. VA. VER 00	NIL ONECH THE	
	Commerce Bank	9th and Broadway Building Exterior Restoration	Columbia, Missouri	Missouri Professional Corporation 1543	Engineering Diagnostics Project Number: F29-5077-K02
	DRAWN BY: CHECKED B FILENAME:	<b>Y</b> :	DATE : DATE :		3
	REVISIONS				

5



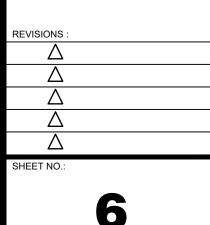
- 1. EXISTING MASONRY WALL SEE RI 9 & 11.
- 2. REPLACE ALL ANCHORS SEE RI 7.6.
- 3. DOWN STACKING AND UP STACK TC UNITS WHERE INDICATED IN THE DRAWINGS, SEE RI 7.1.
- 5. ANCHOR CRACKED TC UNITS TO EACH OTHER AND BACK-UP MASONRY WALL USING HELICAL PINS OR STAINLESS STEEL ALLTHREADS, SEE RI 7.3.
- 6. REPAIR TC UNIT CRACKS BY ROUTING, SEE 7.4.
- 7. PROVIDE (2) REPLACEMENT PRECAST OR FRP UNITS, SEE RI 7.5.
- 8. EXISTING METAL ARMATURE AND ANCHOR ROD, EXPOSE ALL FOR INSPECTION BY ENGINEER WHERE TC UNITS ARE DOWN STACKED.
- 10. THE SECTION IS A GENERAL REPRESENTATION OF THE TC UNITS CONFIGURATION AND ANCHORS AND ARMATURES, ACTUAL TC TC CONFIGURATION, SHAPES, ANCHORS AND

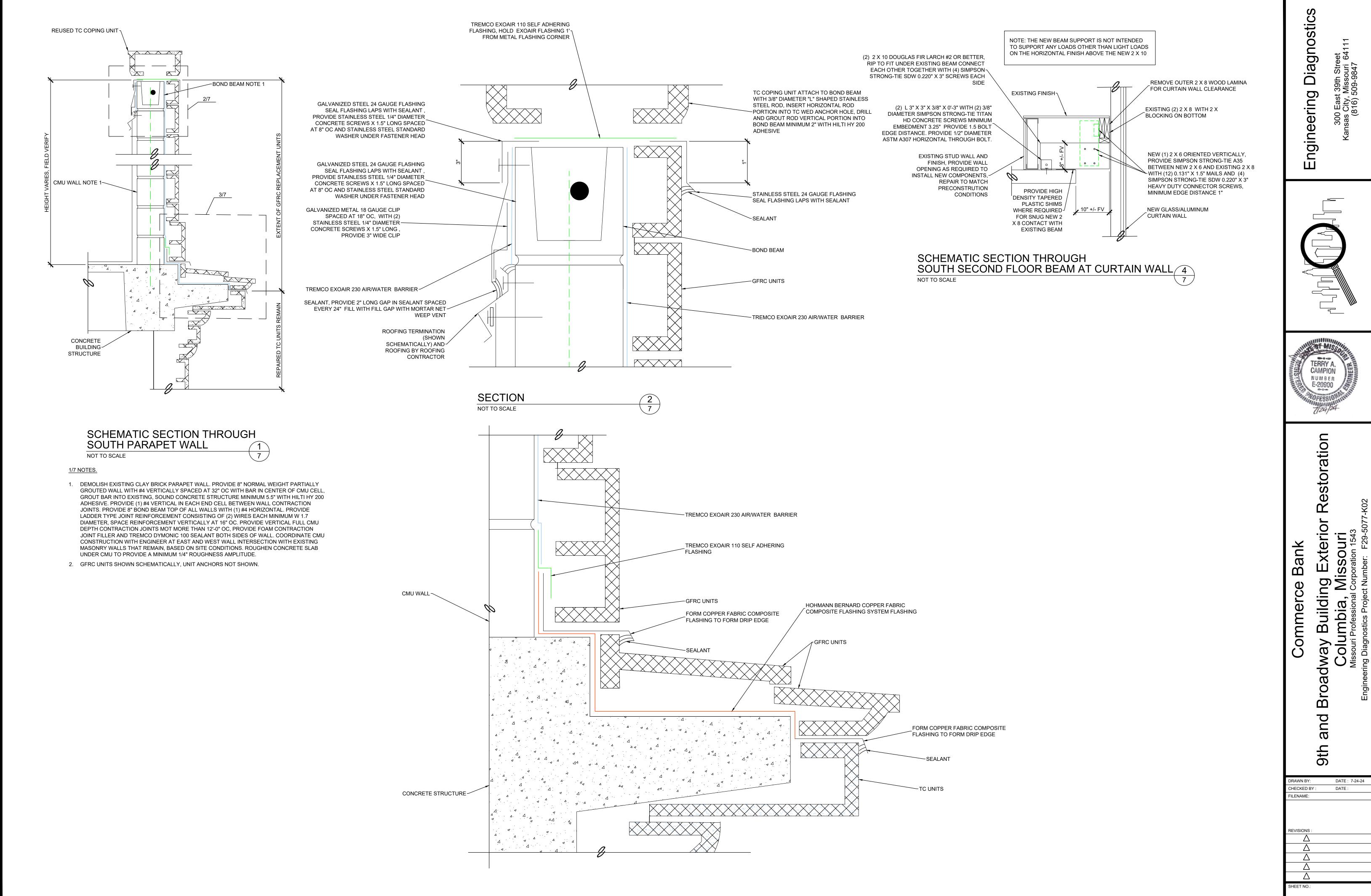
### REPAIR ITEM DESCRIPTIONS.

- 1. REPLACE FAILED TERRA COTTA COLOR COATINGS AND GLAZE.
- 2. PATCH REPAIR TC UNIT.
- 4. REPLACE TC UNIT JOINT MORTAR/SEALANT AT 100-PERCENT OF THE TC UNIT SKYVIEW SURFACES AS INDICATED ON THE DRAWINGS.
- 5. REPLACE ALL EXISTING TC CRACK SEALANT AND PROVIDE SEALANT AT UNSEALED TC UNIT
- 6. CRACKED TC UNIT EXTERNAL REINFORCEMENT.
- 7. REPAIR SOUTHWEST CORNER PARAPET AND CORNICE TC UNITS.
- 8.1 REPOINT TC ISOLATED MORTAR JOINTS AT MASONRY BELOW THE CORNICE AND THE BACKSIDE OF THE PARAPET WALLS AND PARTY WALL.
- 9. REPOINT 100-PERCENT OF THE TC UNITS ABOVE THE CORNICE AS INDICATED ON THE
- 10. CLEAN SOUTH AND WEST BUILDING ELEVATION.
- 11. PARAPET WALL BACKSIDE AND PARTY WALL MASONRY WATER REPELLENT APPLICATION.
- 12. WET-SEAL NORTH ELEVATION WINDOW SYSTEM.
- 13. SEAL ATTIC VENT COVERS.

- 15. VERTICAL SURFACE TC CRACK REPAIR.
- 16. RENEW TC COLOR COAT AND GLAZE.

	CHECKED B FILENAME:	Commerce Bank	AFGISTERED ST.	Endinaarina Diagnastine
:	Y :	9th and Broadway Building Exterior Restoration	TERRY CAMP NUMB E-209	
	DATE :	Columbia, Missouri	A. Hen DO	300 East 39th Street Kansas City, Missouri 64111
			IN POWER THE	(816) 509-9847
		Engineering Diagnostics Project Number: F29-5077-K02		





7

# SECTION

NOT TO SCALE