

- NOTES:**
- SIZES SHOWN AND LOCATIONS OF DETERIORATIONS ARE APPROXIMATE.
 - FOR REFERENCES, SEE GENERAL NOTES DRAWING G1002.
 - CRACKS SMALLER THAN $\frac{1}{4}$ " SHALL BE PRESSURE INJECTED PER (A3).
CRACKS LARGER THAN $\frac{1}{4}$ " SHALL BE GROUTED AND SEALED PER (A2).
 - SPALLS SHALL BE REPAIRED PER DETAIL (A2).

- LEGEND:**
- 50 S.F. (hatched pattern) = APPROXIMATE AREA OF DELAMINATED CONCRETE SLAB OR BEAM SOFFIT
NUMBER IS APPROXIMATE SQUARE FOOT AREA
NO NUMBER INDICATES ONE SQUARE FOOT OR LESS
 - 1 S.F. (dotted pattern) = CONCRETE SPALL
NUMBER IS APPROXIMATE SQUARE FOOT AREA
NO NUMBER INDICATES ONE SQUARE FOOT OR LESS
 - 6 FT. (line with '6') = CRACK IN CONCRETE
NUMBER IS APPROXIMATE LINEAR FOOT LENGTH.
 - 6 FT. (line with '6' and circles) = CRACKED AND/OR DELAMINATED CONCRETE CURB
NUMBER IS APPROXIMATE LINEAR FOOT LENGTH.
 - = ARROW INDICATES SIDE OF CONCRETE WALL, COLUMN, CURB, OR BEAM.

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

Revisions	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

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Drawing Title
FIFTH LEVEL PLAN

Approved Project Director

Project Title
GARAGE STRUCTURAL REPAIR DESIGN

Location
SYRACUSE

Date
1/24/2014

Checked
RF

Drawn
JPS

Project Number
528A7-12-701

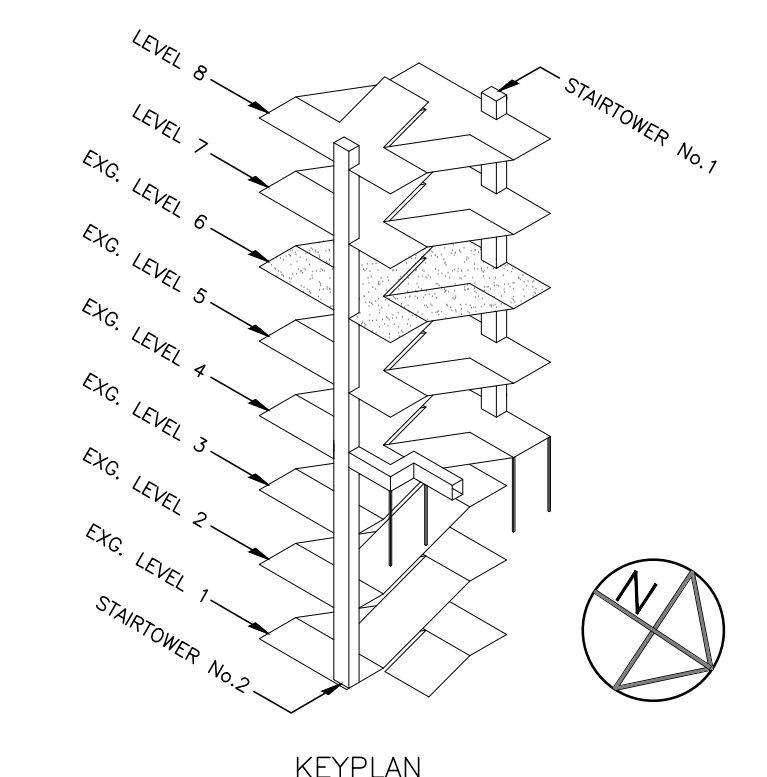
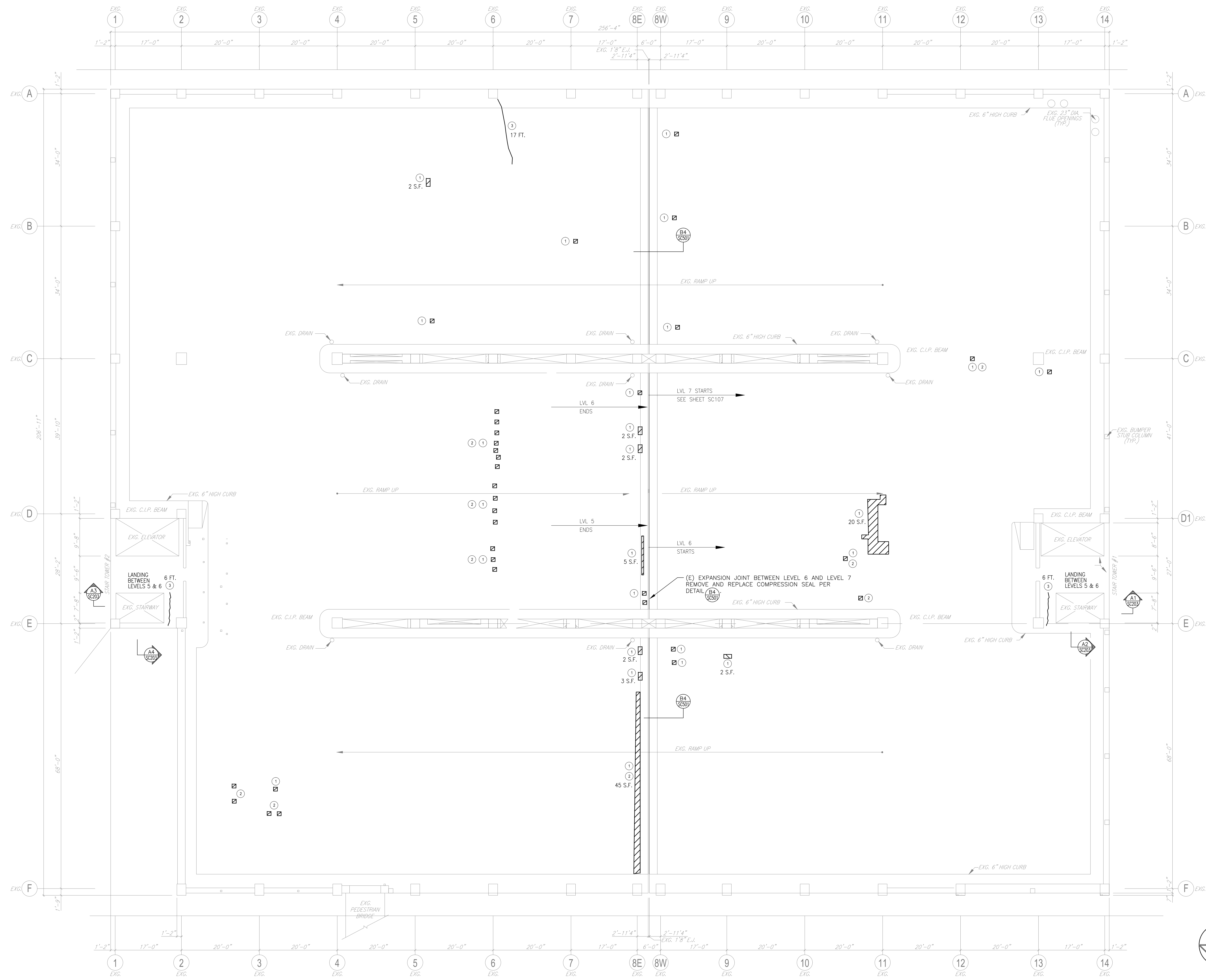
Building Number
19

Drawing Number
SC105

Dwg. 11 of 28

Office of Construction and Facilities Management

Department of Veterans Affairs



- NOTES:**
- SIZES SHOWN AND LOCATIONS OF DETERIORATIONS ARE APPROXIMATE.
 - FOR REFERENCES, SEE GENERAL NOTES DRAWING 61002.
 - CRACKS SMALLER THAN "4" SHALL BE PRESSURE INJECTED PER .
 - CRACKS LARGER THAN "4" SHALL BE GROUTED AND SEALED PER .
 - SPALLS SHALL BE REPAIRED PER DETAIL .

- LEGEND:**
- 50 S.F. = APPROXIMATE AREA OF DELAMINATED CONCRETE SLAB OR BEAM SOFFIT. NUMBER IS APPROXIMATE SQUARE FOOT AREA. NO NUMBER INDICATES ONE SQUARE FOOT OR LESS.
 - 1 S.F. = CONCRETE SPALL. NUMBER IS APPROXIMATE SQUARE FOOT AREA. NO NUMBER INDICATES ONE SQUARE FOOT OR LESS.
 - 6 FT. = CRACK IN CONCRETE. NUMBER IS APPROXIMATE LINEAR FOOT LENGTH.
 - 6 FT. = CRACKED AND/OR DELAMINATED CONCRETE CURB. NUMBER IS APPROXIMATE LINEAR FOOT LENGTH.
 - = ARROW INDICATES SIDE OF CONCRETE WALL, COLUMN, CURB, OR BEAM.

Scale indicators on the left margin:

- three inches = one foot
- one and one half inches = one foot
- one inch = one foot
- three quarters inch = one foot
- one half inch = one foot
- three eighths inch = one foot
- one quarter inch = one foot
- one eighth inch = one foot

Revisions	Date

CONSULTANTS:



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Drawing Title
 SIXTH LEVEL PLAN

Approved Project Director

Project Title
 GARAGE STRUCTURAL REPAIR DESIGN

Location
 SYRACUSE

Date
 1/24/2014

Checked
 RF

Drawn
 JPS

Project Number
 528A7-12-701

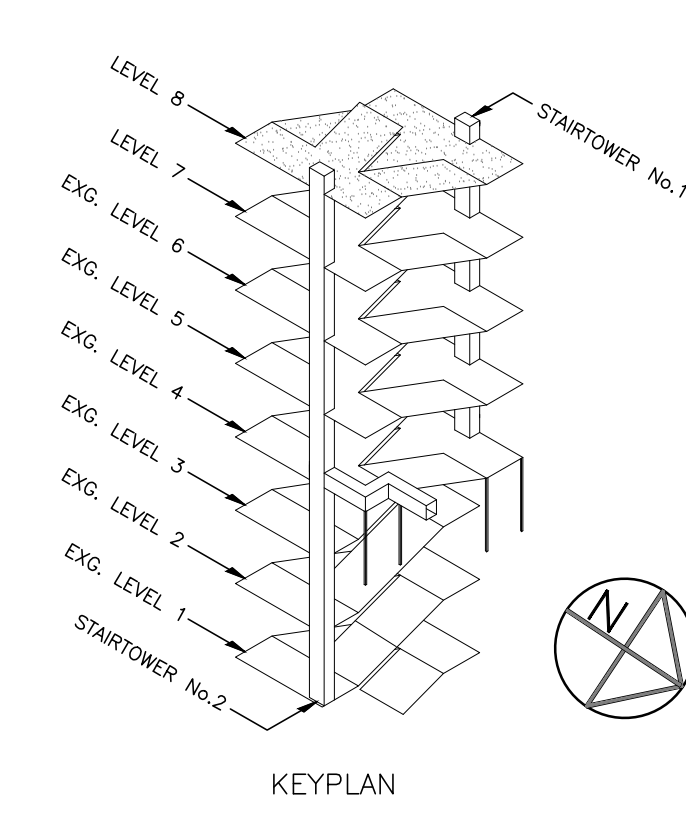
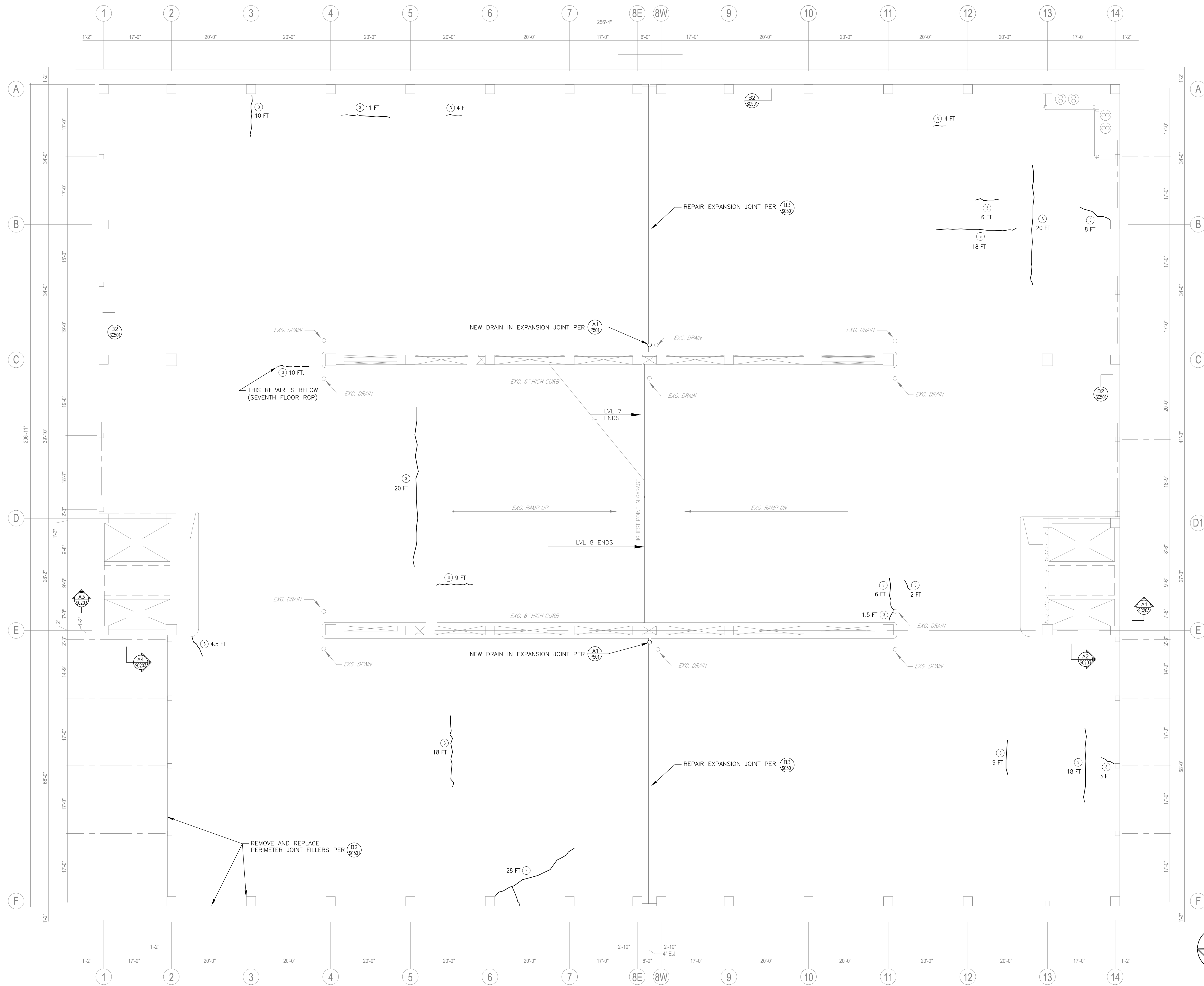
Building Number
 19

Drawing Number
 SC106

Dwg. 12 of 28

Office of Construction and Facilities Management

Department of Veterans Affairs



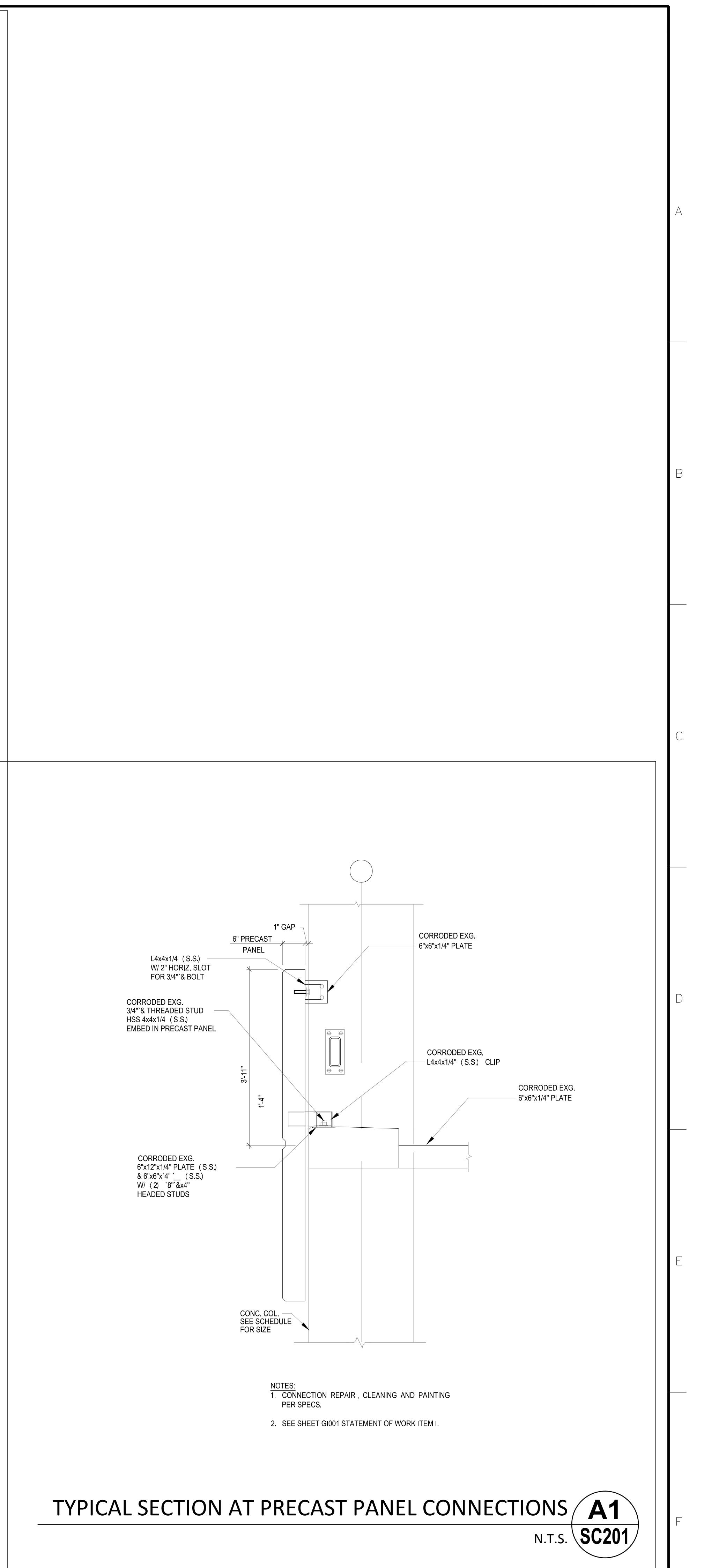
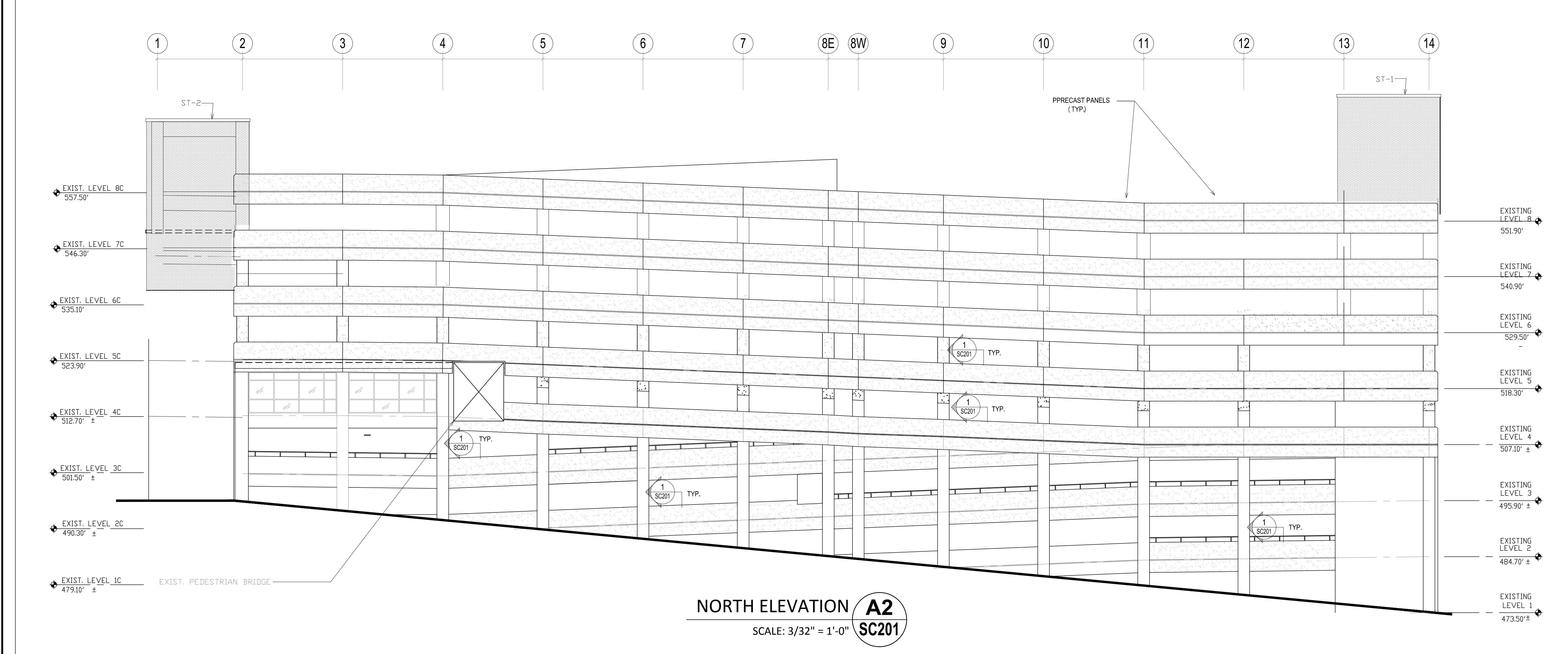
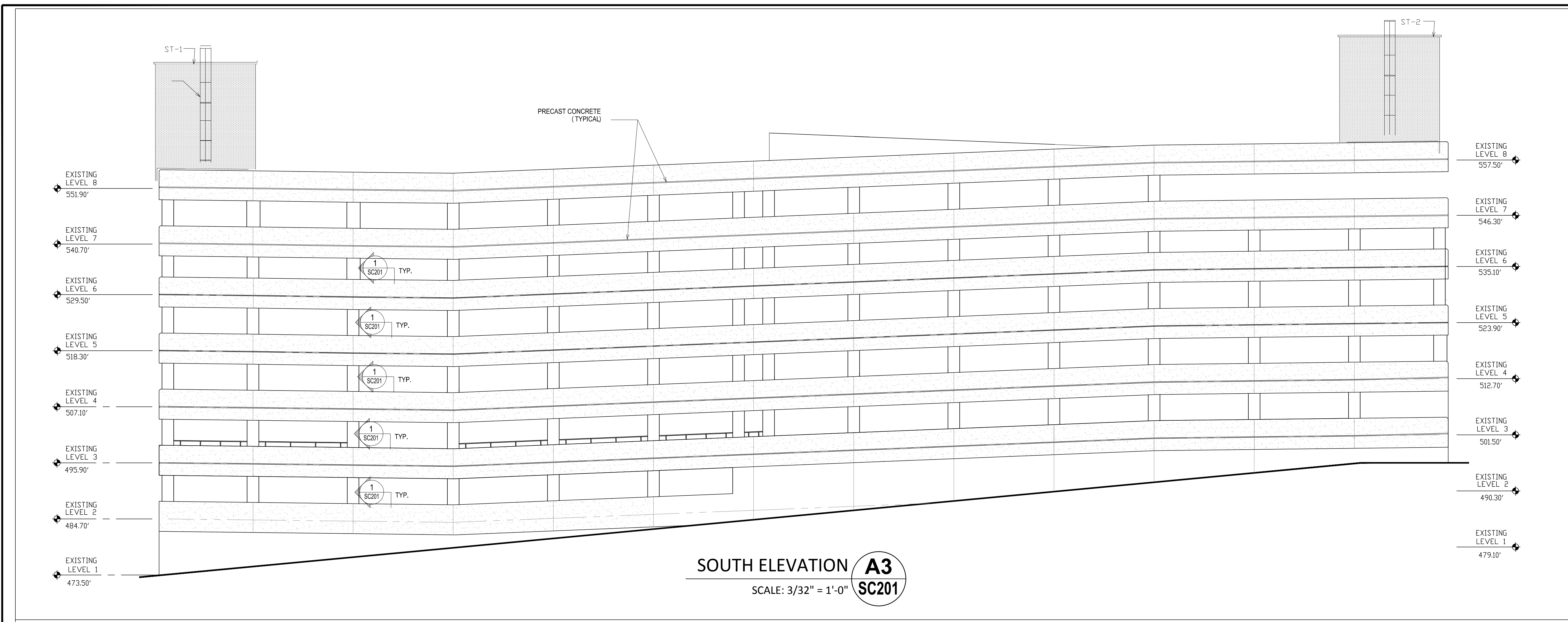
- NOTES:**
- SIZES SHOWN AND LOCATIONS OF DETERIORATIONS ARE APPROXIMATE.
 - FOR REFERENCES, SEE GENERAL NOTES DRAWING 01002.
 - CRACKS SMALLER THAN "x" SHALL BE PRESSURE INJECTED PER (A3/SC501).
CRACKS LARGER THAN "x" SHALL BE GROUDED AND SEALED PER (A2/SC501).
 - SPALLS SHALL BE REPAIRED PER DETAIL (A2/SC501).

- LEGEND:**
- 50 S.F. 1 = APPROXIMATE AREA OF DELAMINATED CONCRETE SLAB OR BEAM SOFFIT. NUMBER IS APPROXIMATE SQUARE FOOT AREA. NO NUMBER INDICATES ONE SQUARE FOOT OR LESS.
 - 1 S.F. 2 = CONCRETE SPALL. NUMBER IS APPROXIMATE SQUARE FOOT AREA. NO NUMBER INDICATES ONE SQUARE FOOT OR LESS.
 - 6 FT. 3 = CRACK IN CONCRETE. NUMBER IS APPROXIMATE LINEAR FOOT LENGTH.
 - 6 FT. 4 = CRACKED AND/OR DELAMINATED CONCRETE CURB. NUMBER IS APPROXIMATE LINEAR FOOT LENGTH.
 - = ARROW INDICATES SIDE OF CONCRETE WALL, COLUMN, CURB, OR BEAM.

three eighths inch = one foot
 one eighth inch = one foot
 three quarters inch = one foot
 one quarter inch = one foot
 one inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one half inch = one foot
 one and one half inches = one foot
 three inches = one foot
 six inches = one foot

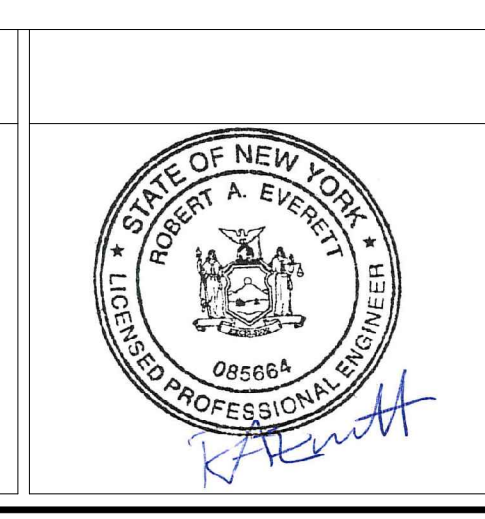
<p>CONSULTANTS:</p>						<p>ARCHITECT/ENGINEERS:</p> <p>EVERETT ENGINEERS</p> <p>1740 MASSACHUSETTS AVE BOXBOROUGH, MA 01719 Phone: 978-266-3711 Fax: 978-266-3712</p>			<p>Drawing Title EIGHTH LEVEL PLAN</p> <p>Approved Project Director</p>			<p>Project Title GARAGE STRUCTURAL REPAIR DESIGN</p> <p>Location SYRACUSE</p> <p>Date 1/24/2014</p>			<p>Project Number 528A7-12-701</p> <p>Building Number 19</p> <p>Drawing Number SC108</p> <p>Dwg. 14 of 28</p>			<p>Office of Construction and Facilities Management</p> <p> Department of Veterans Affairs</p>		
Revisions:		Date																		

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



Revisions	Date

CONSULTANTS:



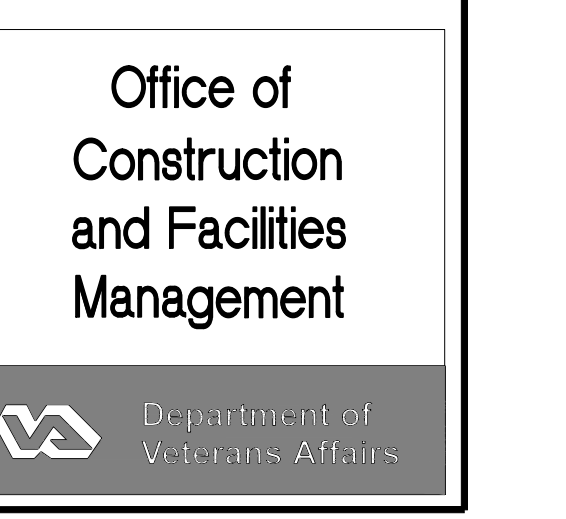
ARCHITECT/ENGINEERS:
EVERETT ENGINEERS

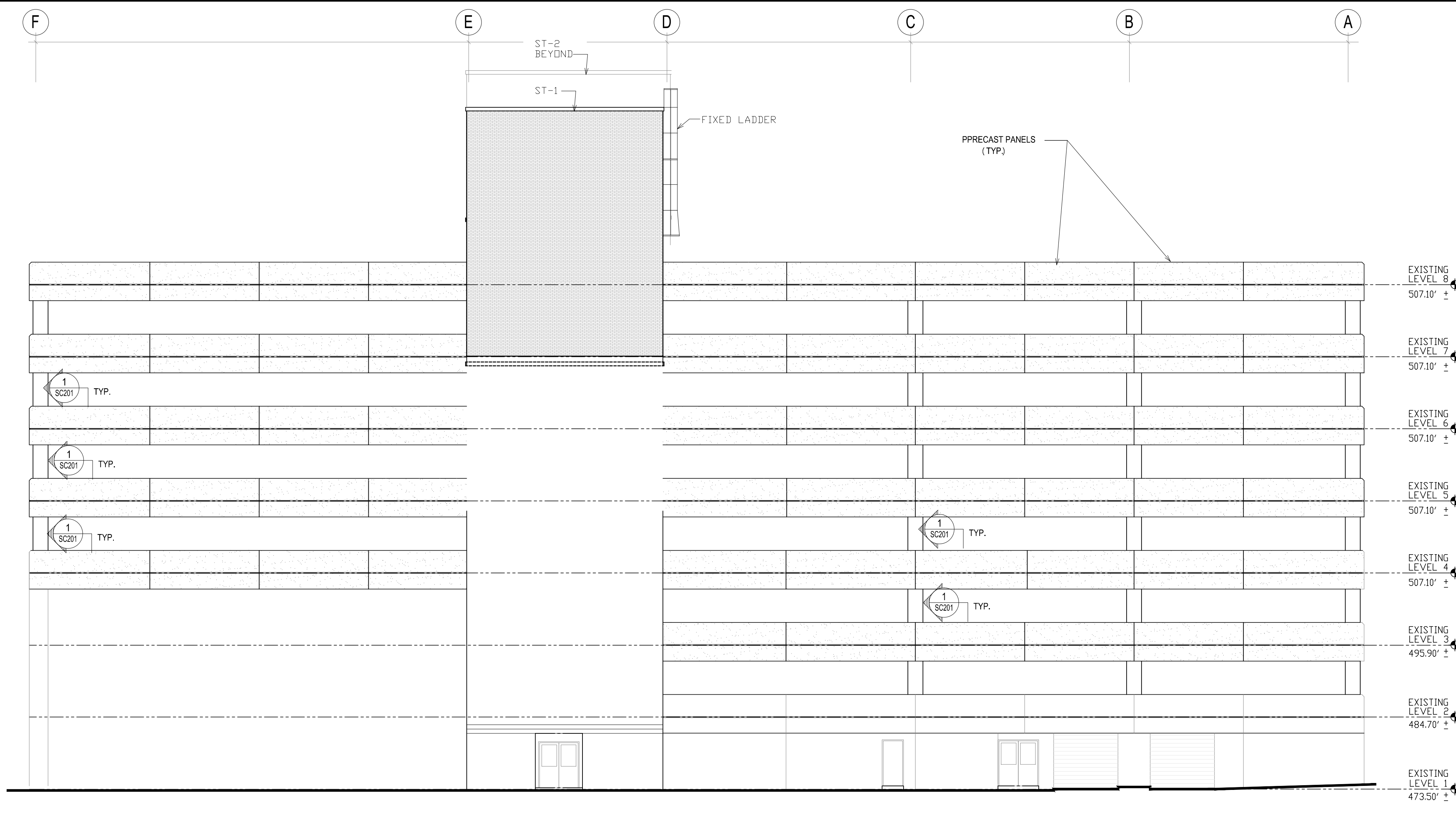
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Drawing Title
 NORTH AND SOUTH ELEVATIONS
 Approved Project Director

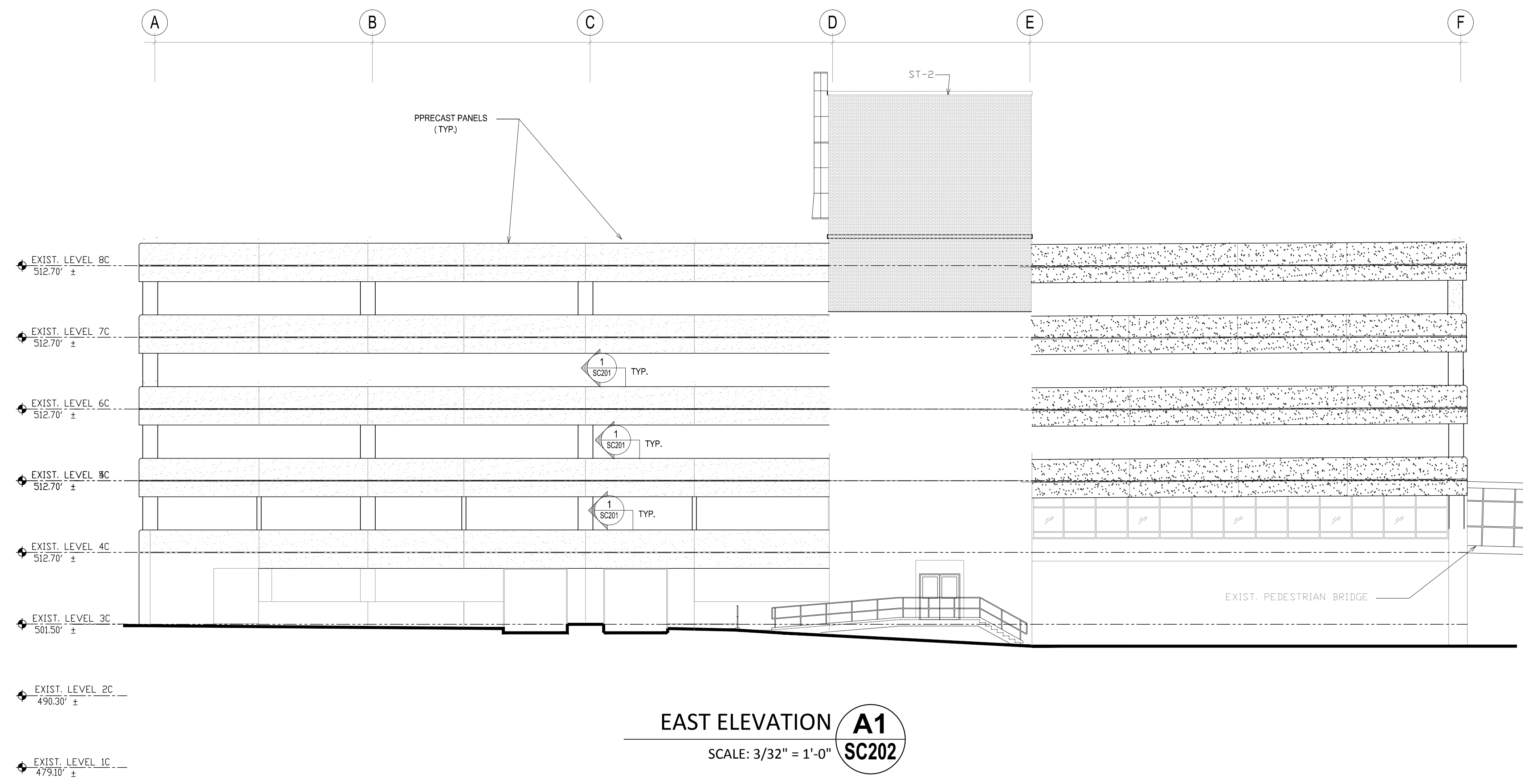
Project Title
 GARAGE STRUCTURAL REPAIR DESIGN
 Location
 SYRACUSE
 Date
 1/24/2014
 Checked
 RF
 Drawn
 JPS

Project Number
 528A7-12-701
 Building Number
 19
 Drawing Number
 SC201
 Dwg. 15 of 28





WEST ELEVATION A2
SCALE: 3/32" = 1'-0"
SC202

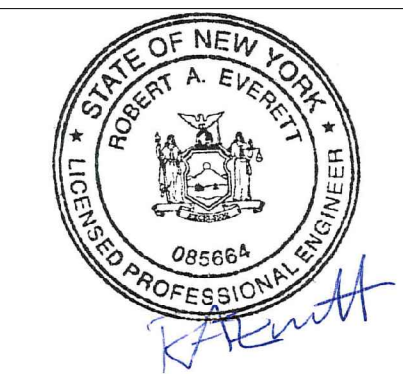


EAST ELEVATION A1
SCALE: 3/32" = 1'-0"
SC202

one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
three inches = one foot

Revisions	Date

CONSULTANTS:

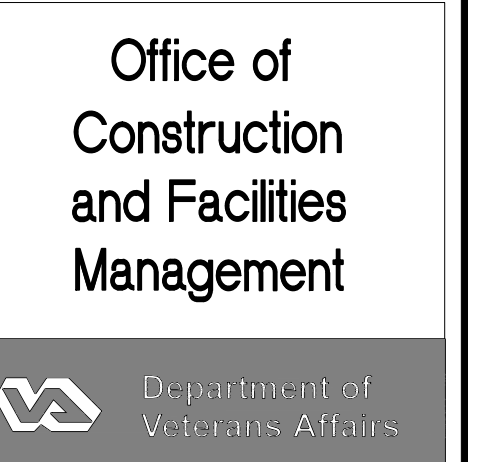


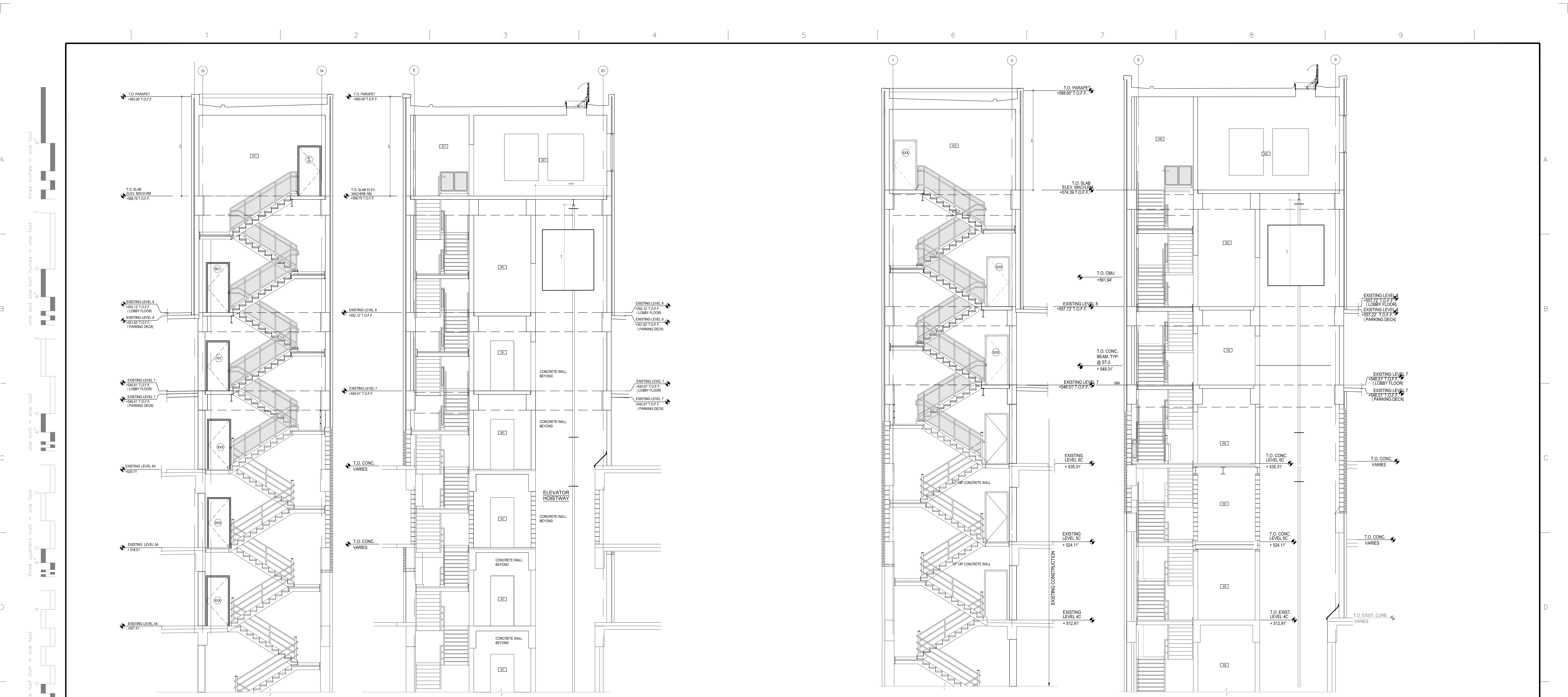
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Drawing Title
EAST AND WEST ELEVATIONS
Approved Project Director

Project Title
GARAGE STRUCTURAL
REPAIR DESIGN
Location
SYRACUSE
Date
1/24/2014
Checked
RF
Drawn
JPS

Project Number
528A7-12-701
Building Number
19
Drawing Number
SC202
Dwg. 16 of 28





STAIR-1 SECTION **A1**
N.T.S. **SC203**

NOTE:
CLEAN, PRIME AND PAINT ALL STAIRWAY
METAL SURFACES FOR FLOORS 1 THRU 6
(HANDRAILS AND TREAD) TO MATCH EXISTING COLOR.

STAIR-1 SECTION **A2**
N.T.S. **SC203**

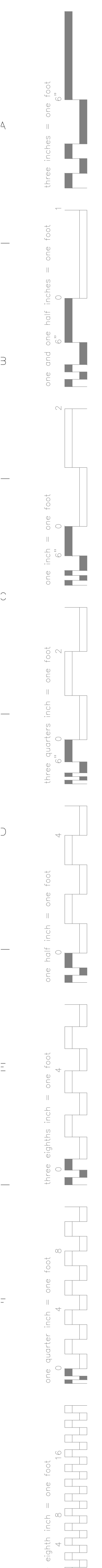
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CLEAN, PRIME AND PAINT ALL STAIRWAY
METAL SURFACES FOR FLOORS 1 THRU 6
(HANDRAILS AND TREAD) TO MATCH EXISTING COLOR.

STAIR-2 SECTION **A3**
N.T.S. **SC203**

NOTE:
CLEAN, PRIME AND PAINT ALL STAIRWAY
METAL SURFACES FOR FLOORS 1 THRU 6
(HANDRAILS AND TREAD) TO MATCH EXISTING COLOR.

STAIR-2 SECTION **A4**
N.T.S. **SC203**

NOTE:
CLEAN, PRIME AND PAINT ALL STAIRWAY
METAL SURFACES FOR FLOORS 1 THRU 6
(HANDRAILS AND TREAD) TO MATCH EXISTING COLOR.

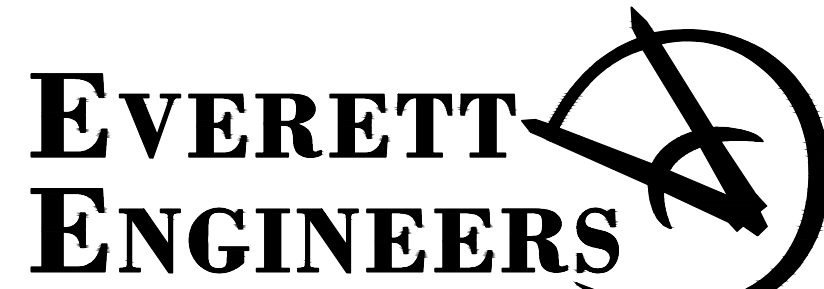


Revisions	Date

CONSULTANTS:



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Drawing Title
STAIR TOWER ELEVATIONS

Approved Project Director

Project Title
GARAGE STRUCTURAL
REPAIR DESIGN

Location
SYRACUSE

Date
1/24/2014

Checked
RF

Drawn
JPS

Project Number
528A7-12-701

Building Number
19

Drawing Number

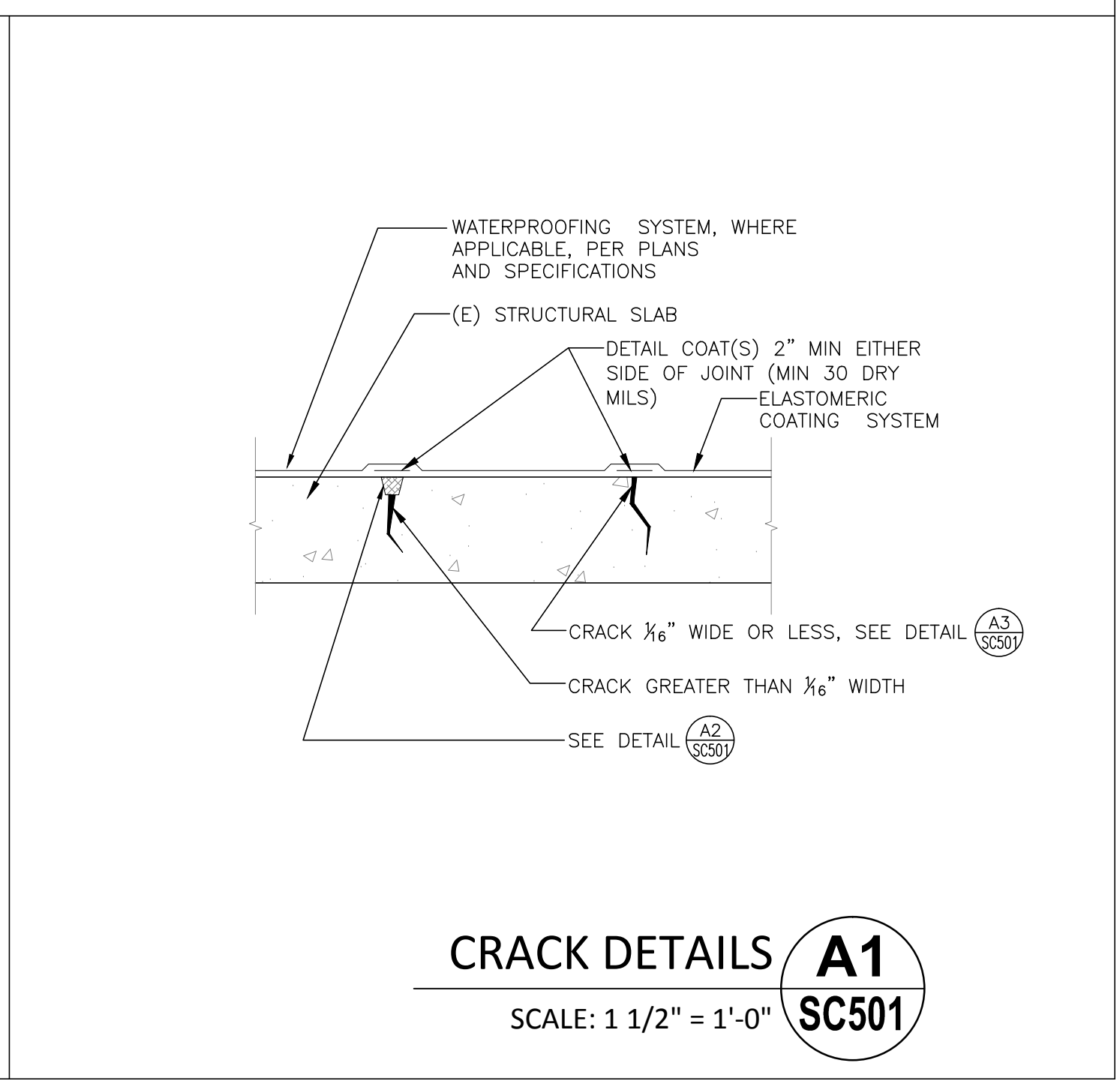
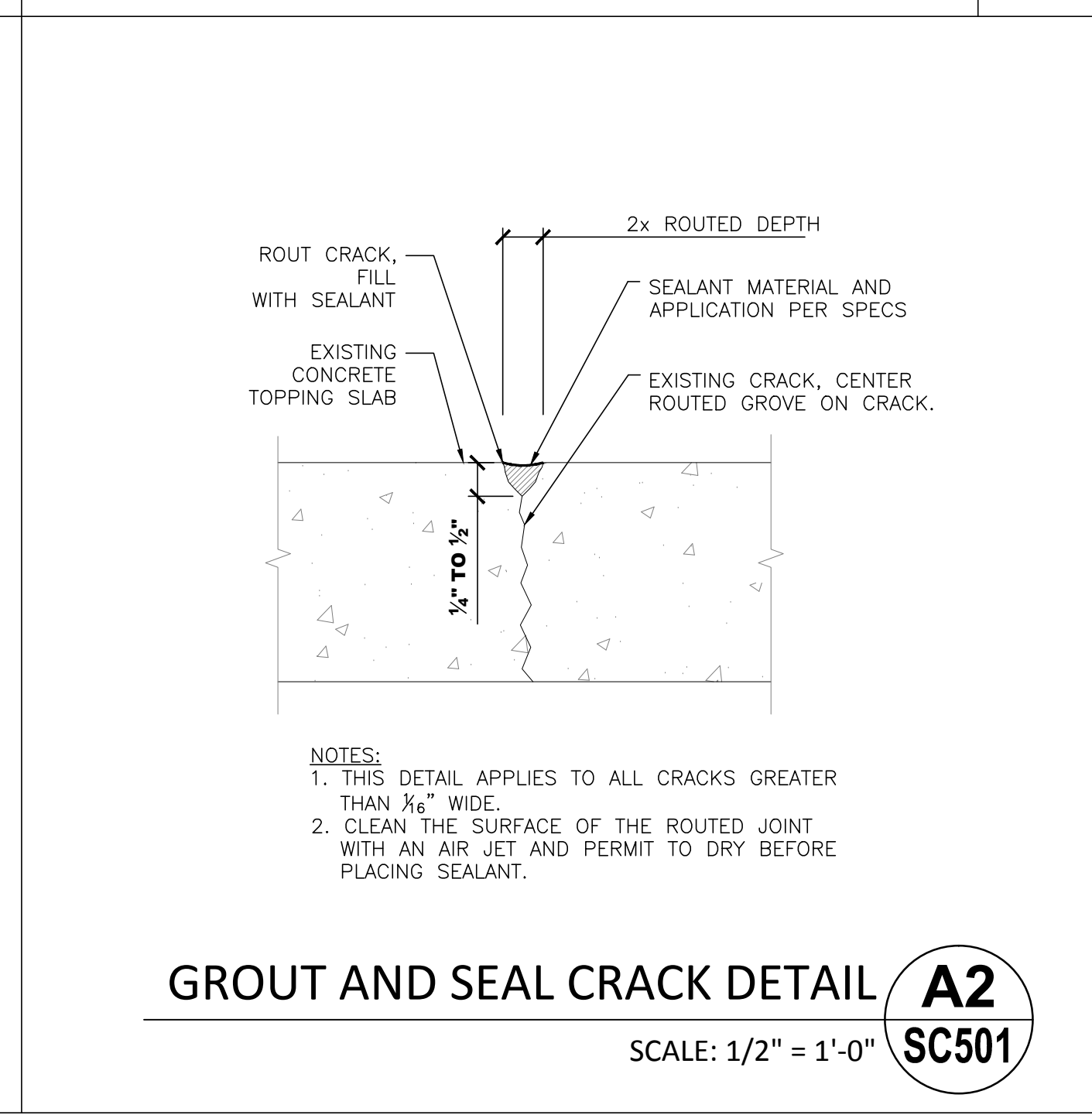
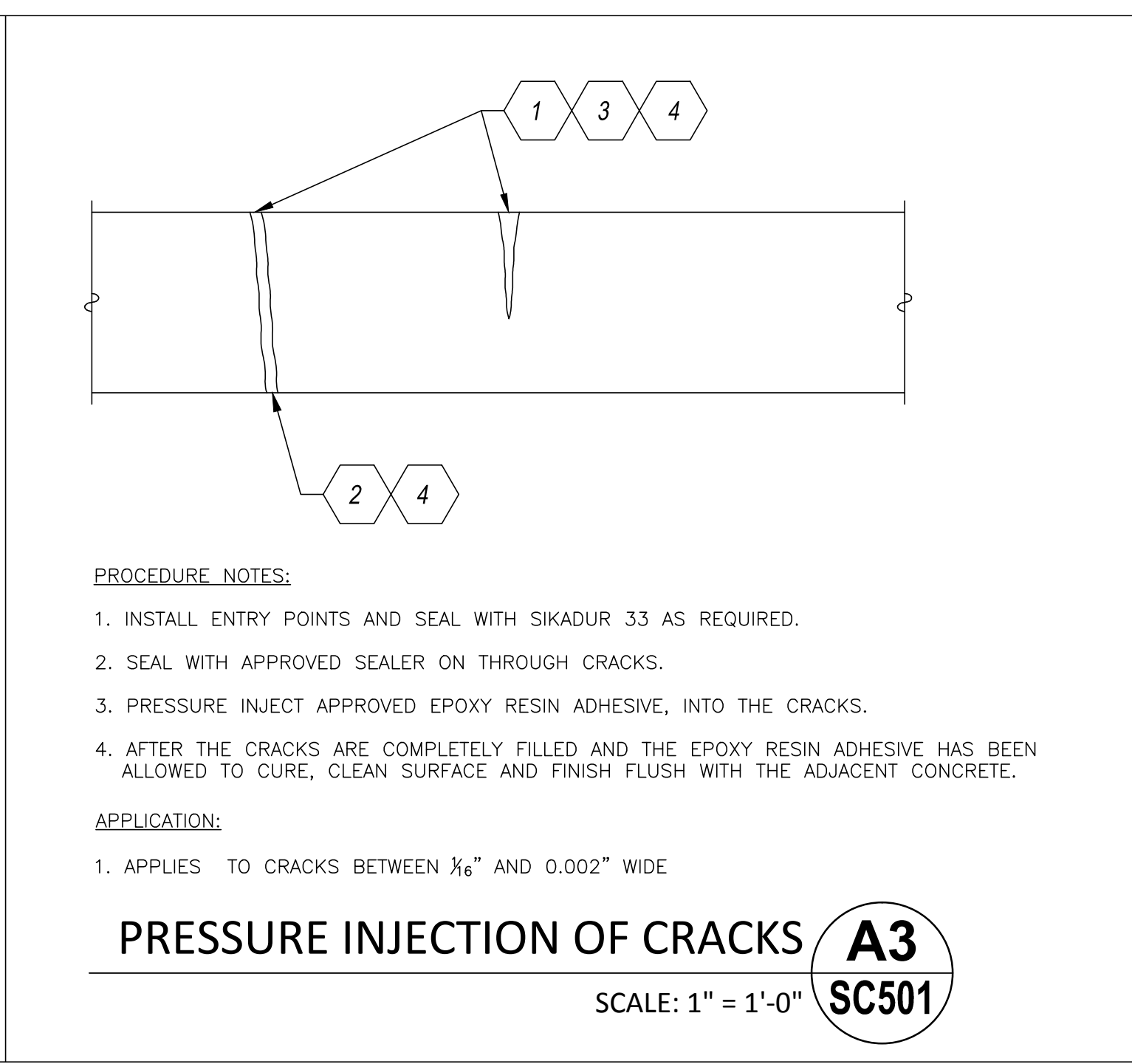
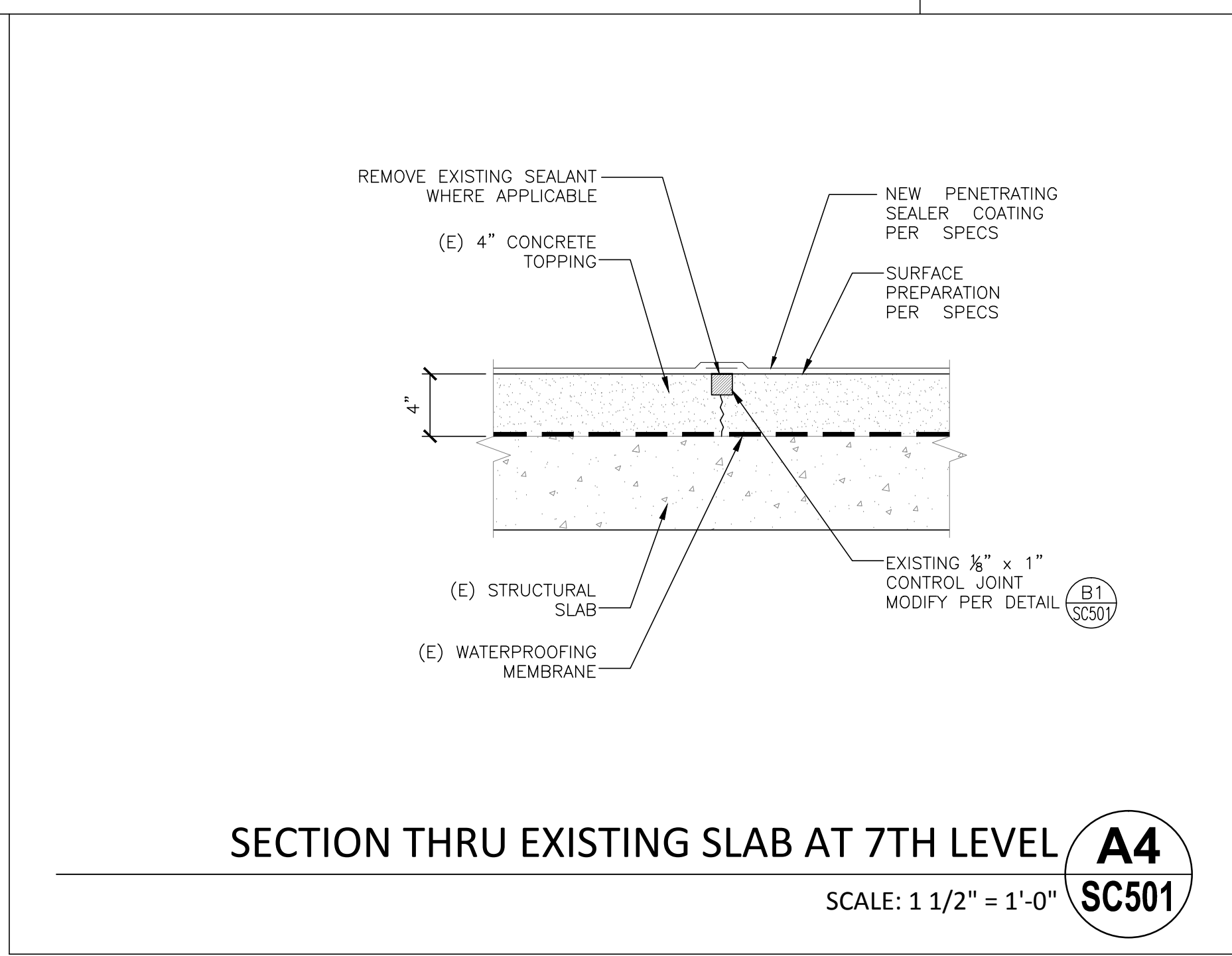
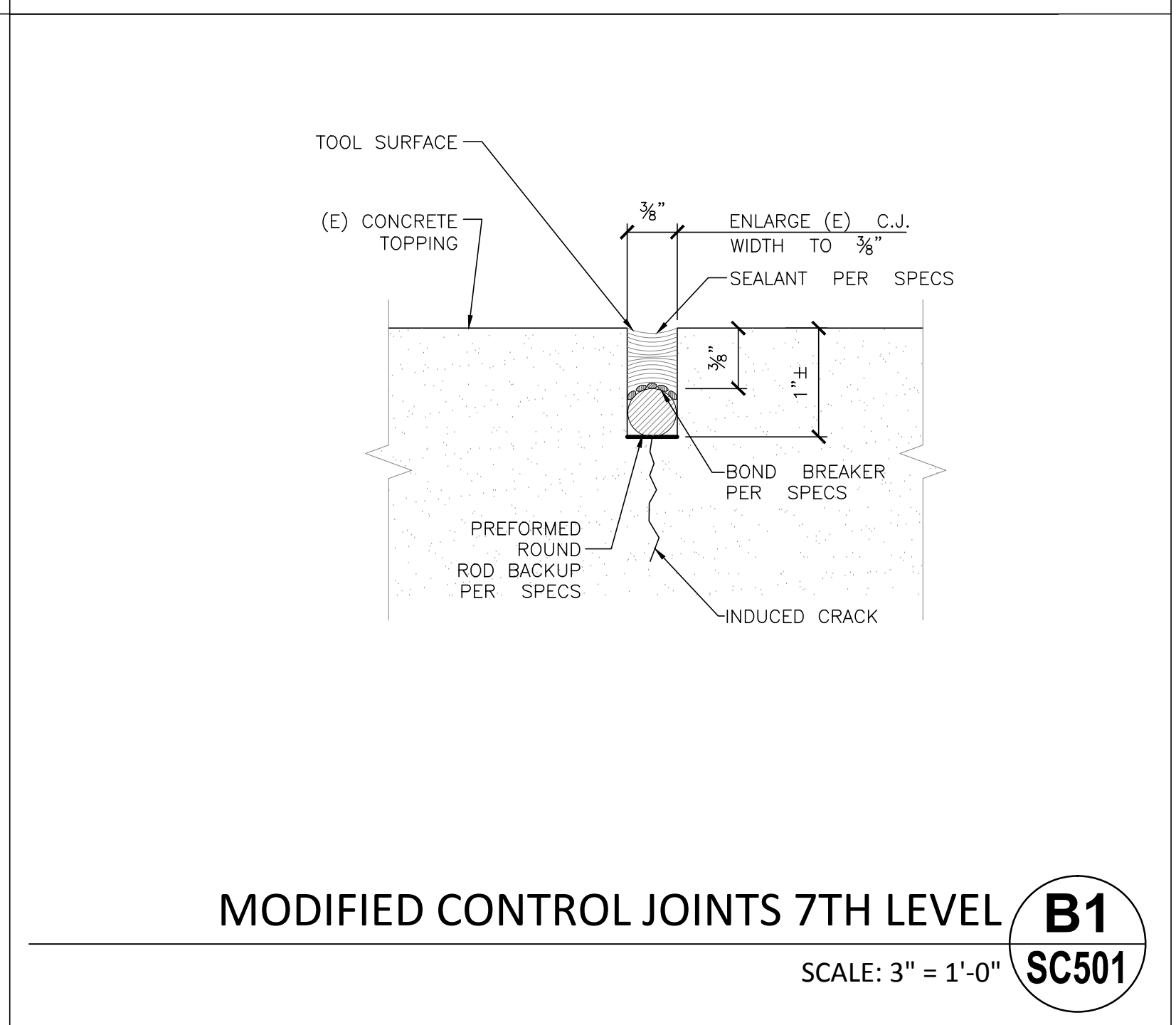
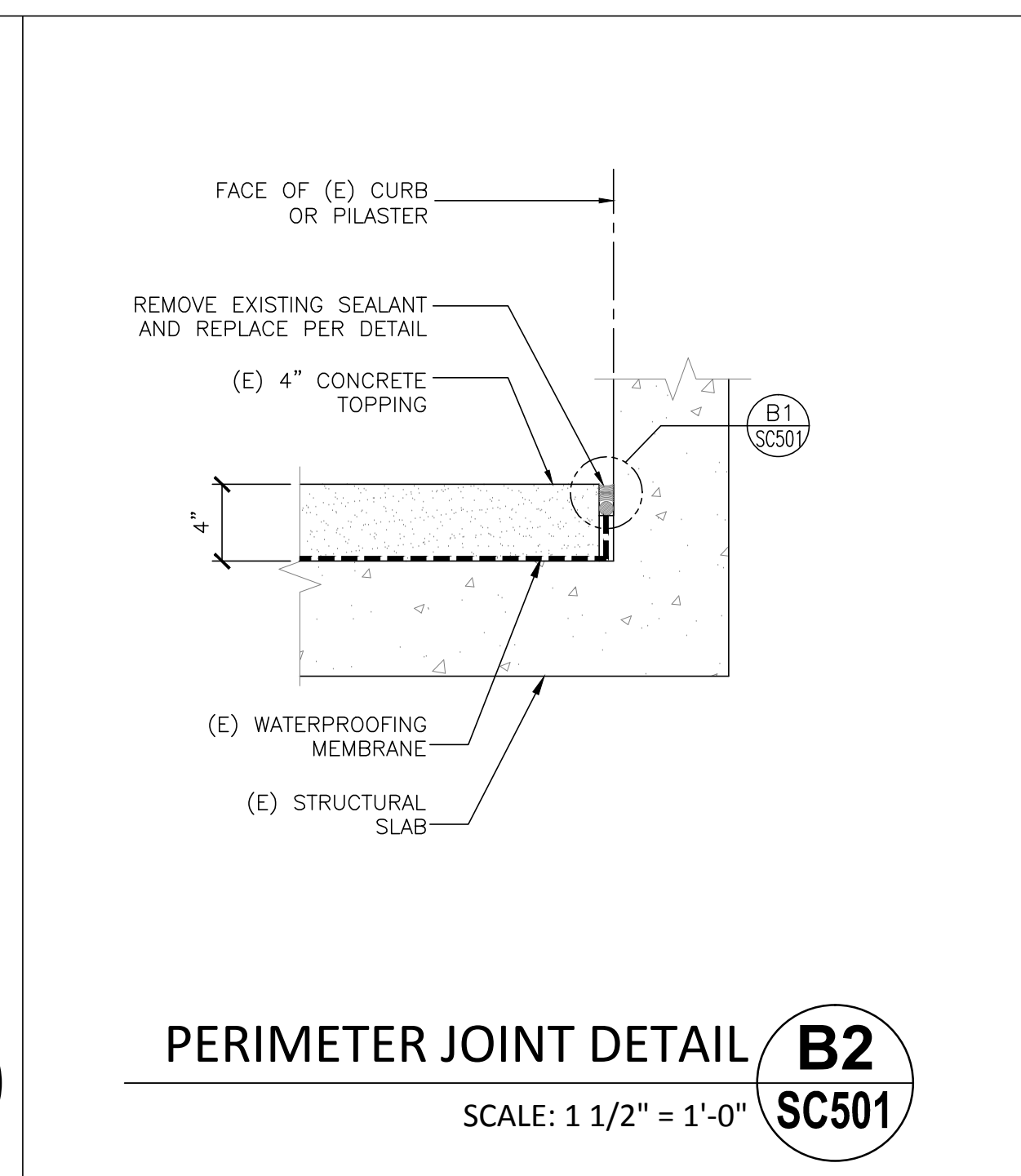
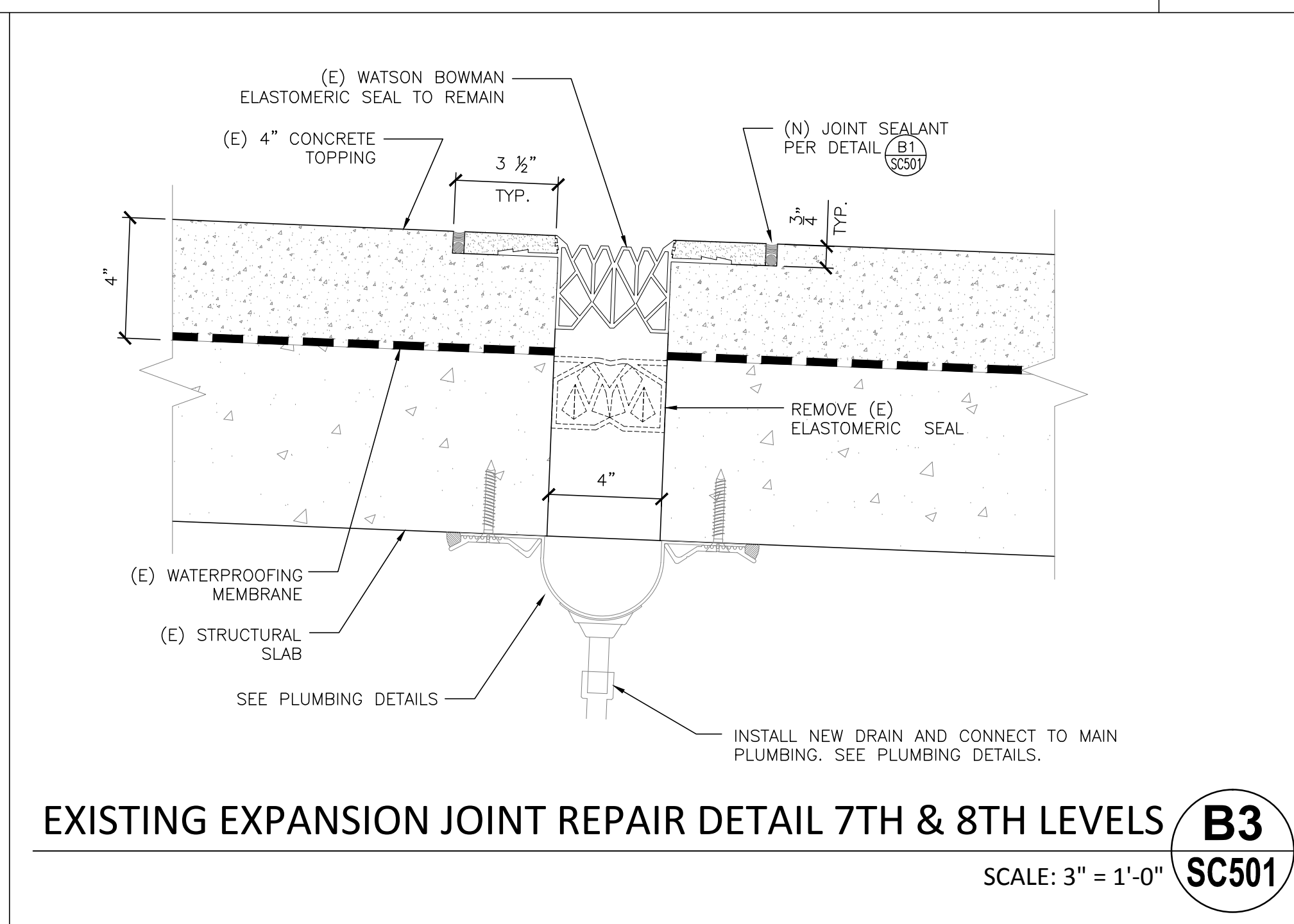
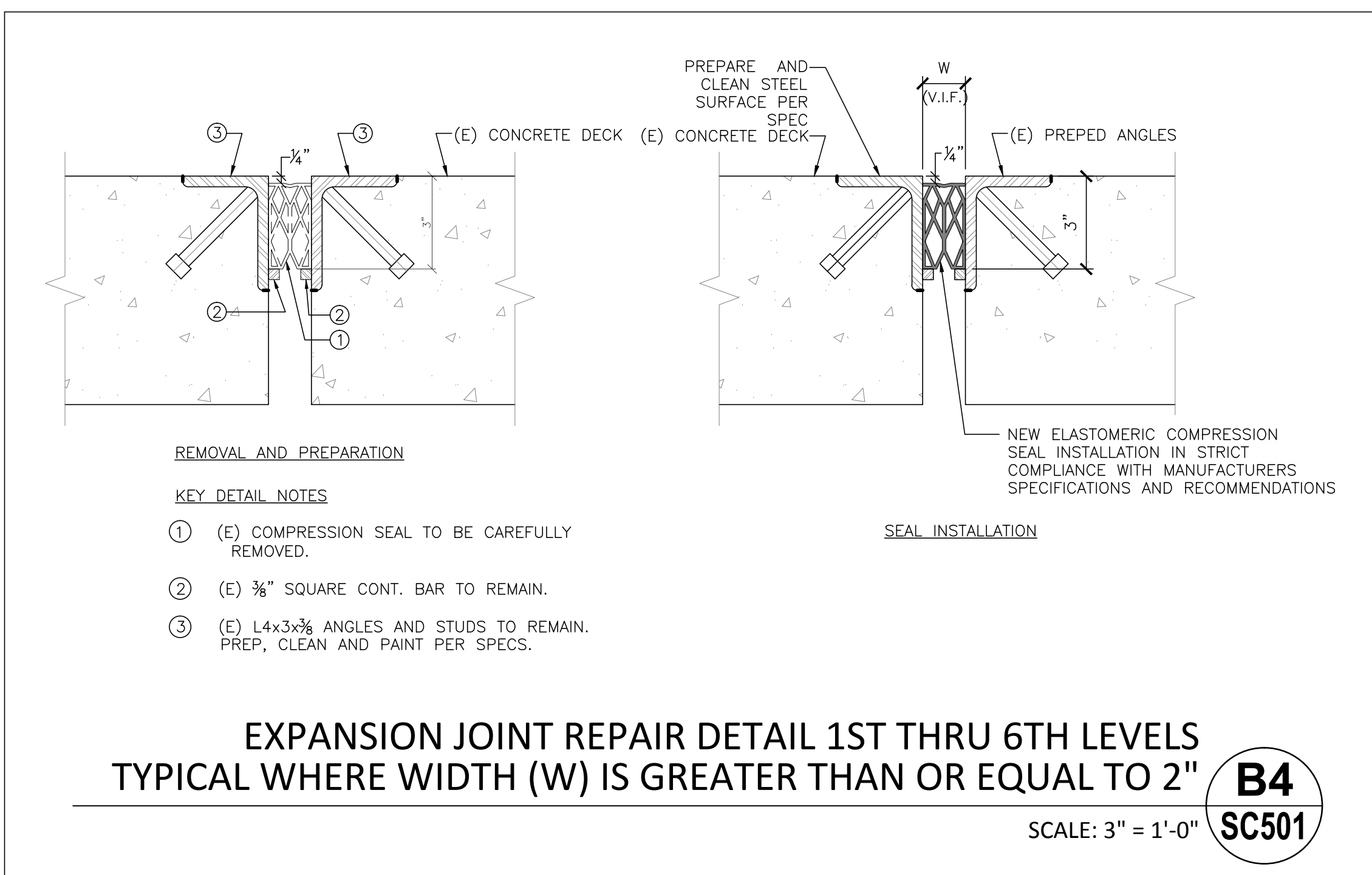
SC203

Dwg. 17 of 28

Office of
Construction
and Facilities
Management

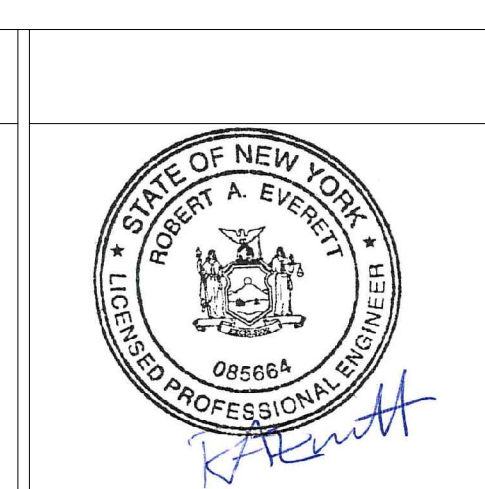


one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three inches = one foot



Revisions	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

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Drawing Title:
 TYPICAL CRACK AND JOINT REPAIR DETAILS

Approved Project Director:

Project Title:
 GARAGE STRUCTURAL REPAIR DESIGN

Location:
 SYRACUSE

Date:
 1/24/2014

Checked:
 RF

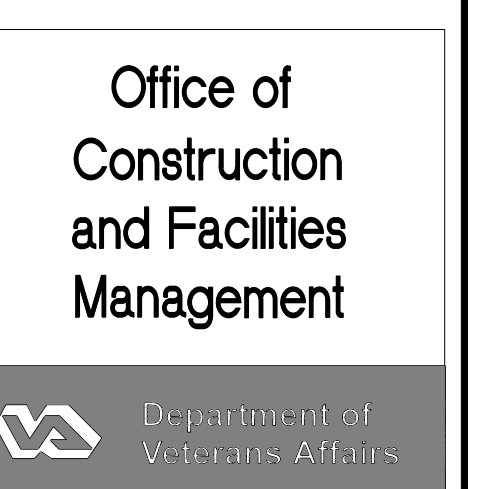
Drawn:
 JPS

Project Number:
 528A7-12-701

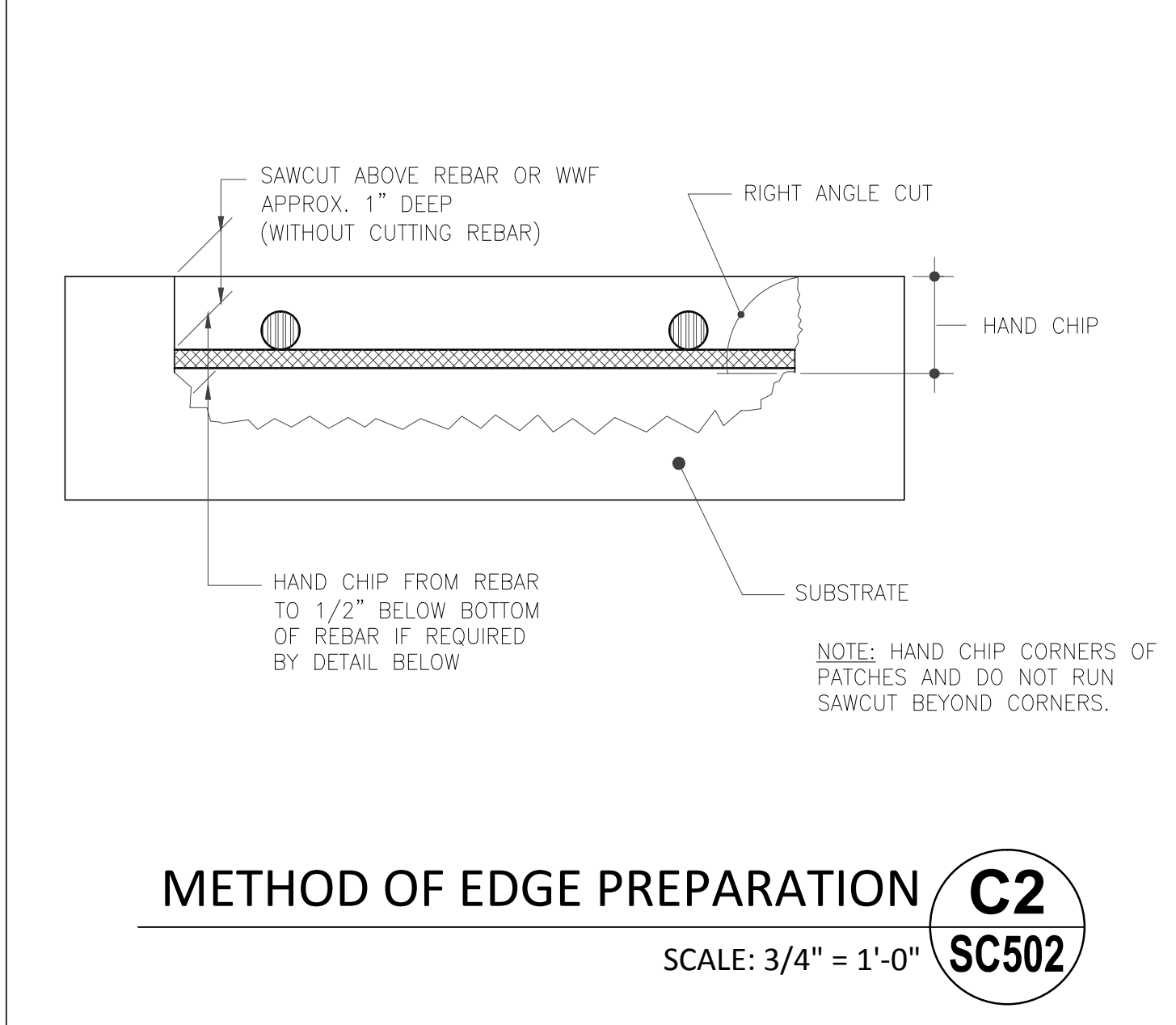
Building Number:
 19

Drawing Number:
 SC501

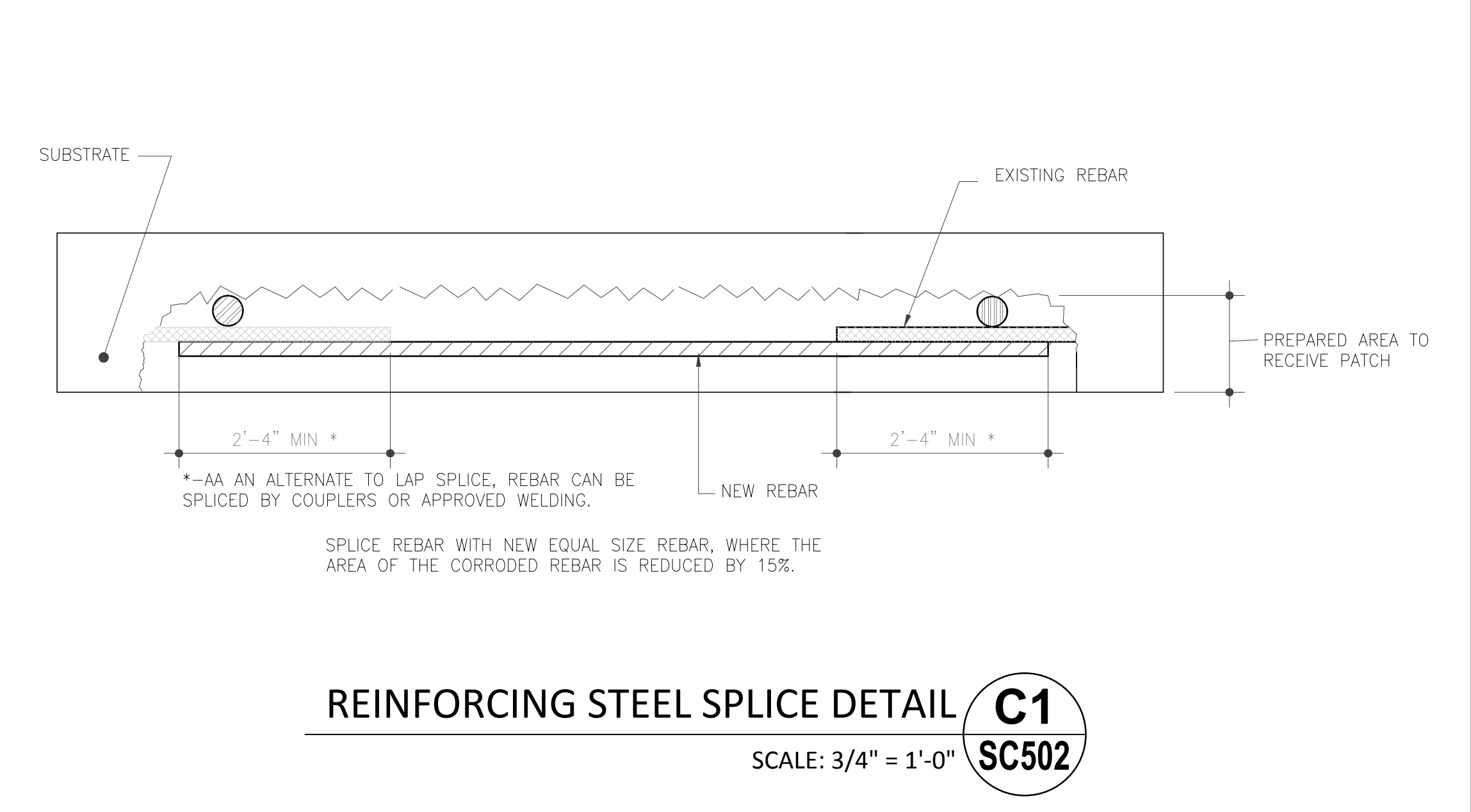
Dwg. 18 of 28



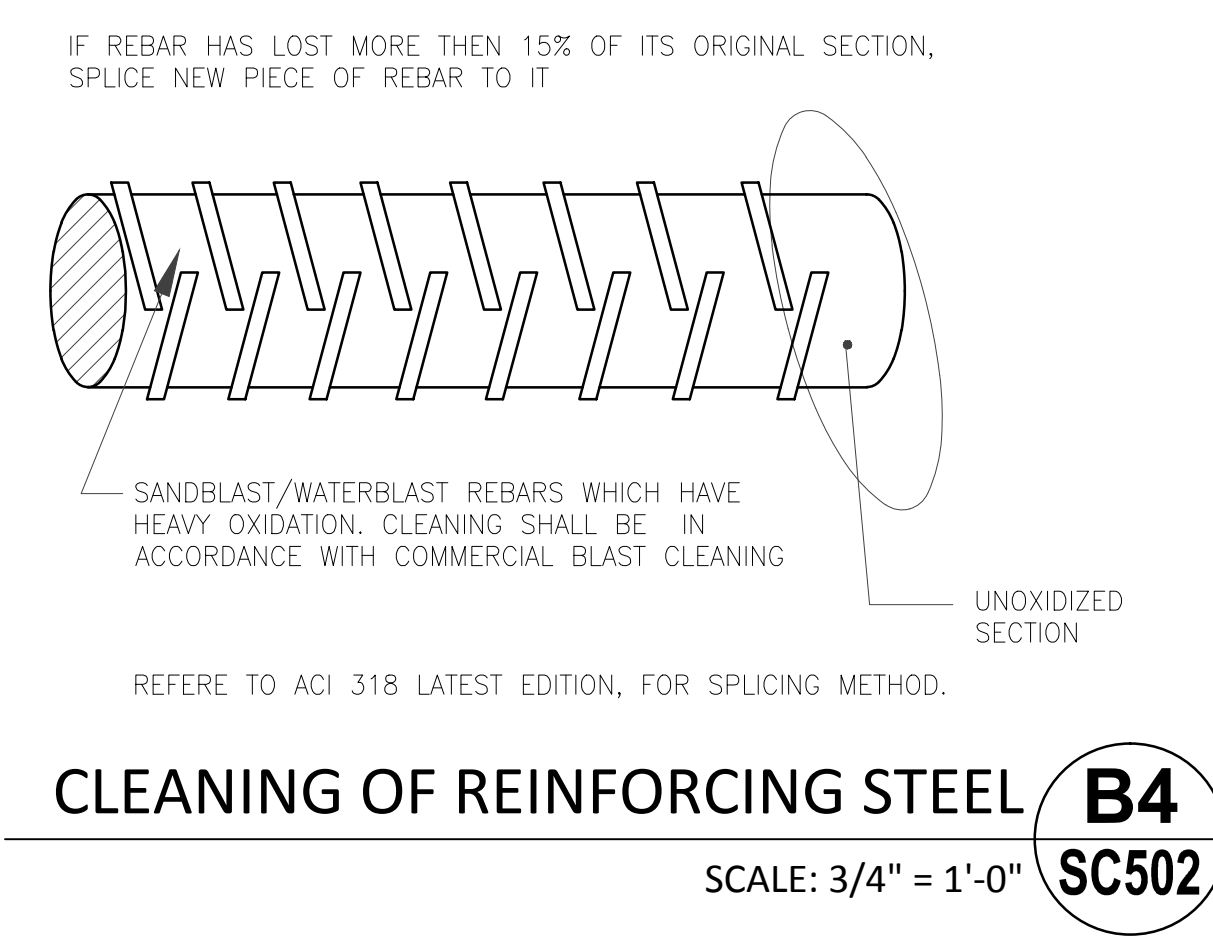
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



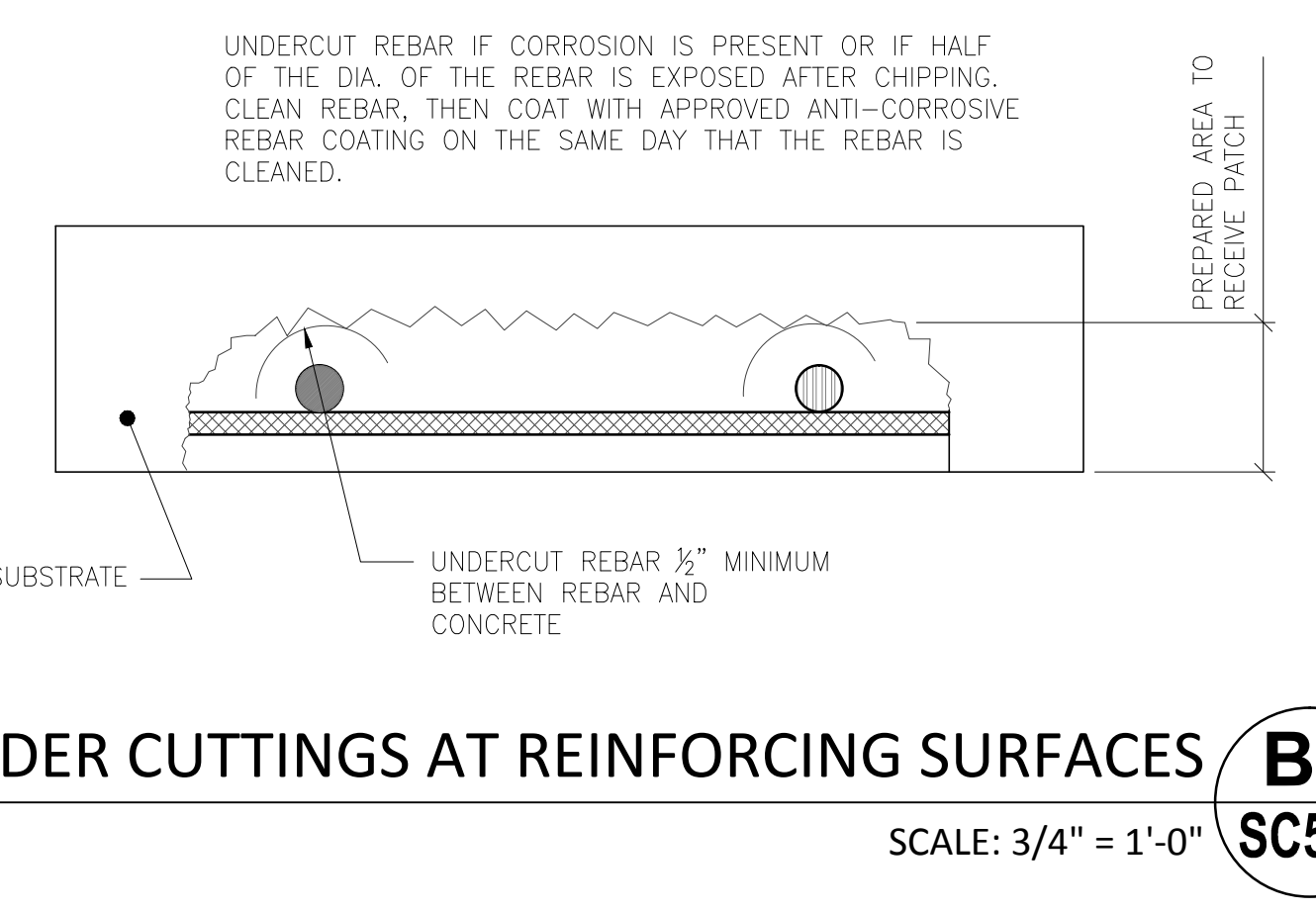
METHOD OF EDGE PREPARATION C2
 SCALE: 3/4" = 1'-0" SC502



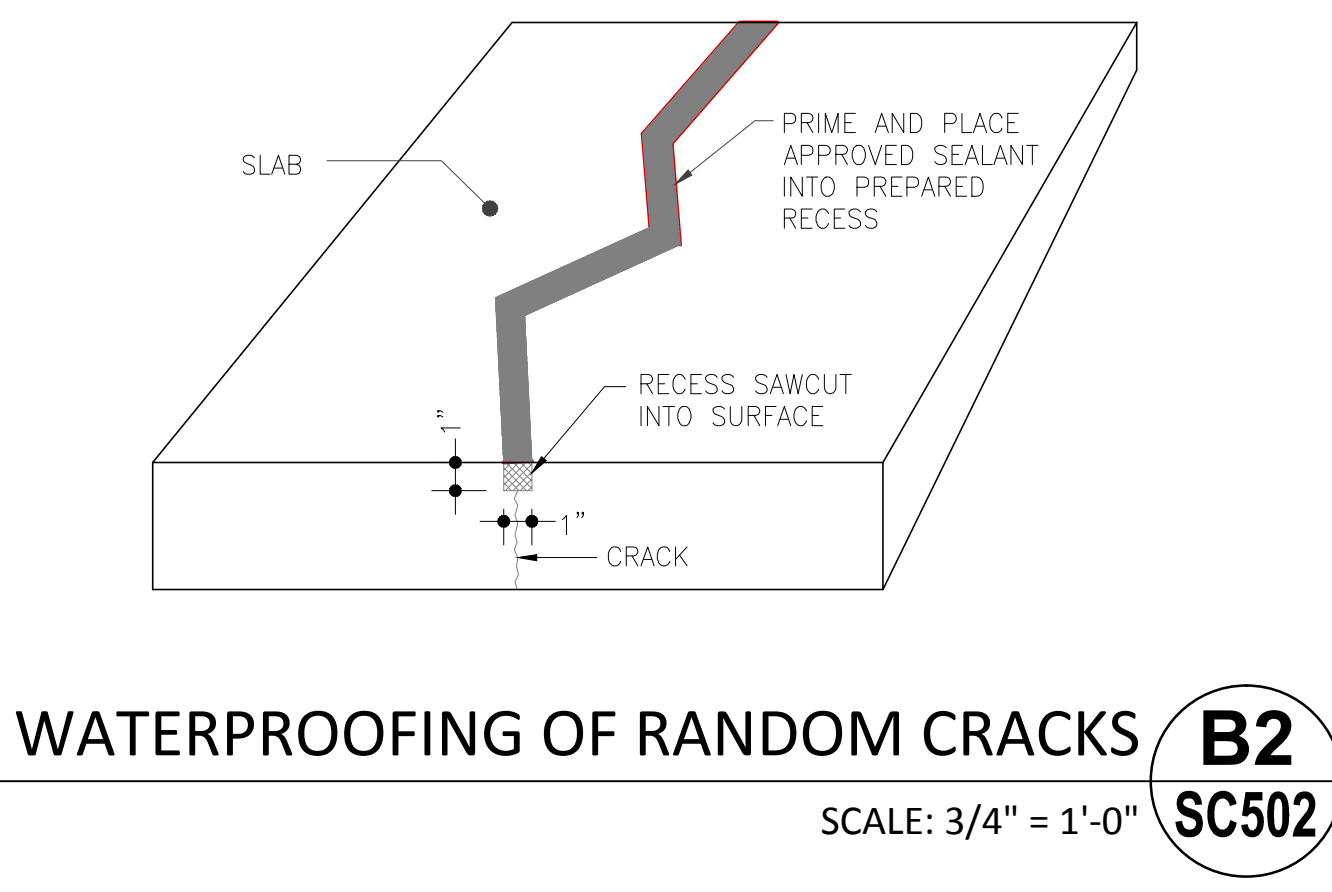
REINFORCING STEEL SPLICE DETAIL C1
 SCALE: 3/4" = 1'-0" SC502



CLEANING OF REINFORCING STEEL B4
 SCALE: 3/4" = 1'-0" SC502

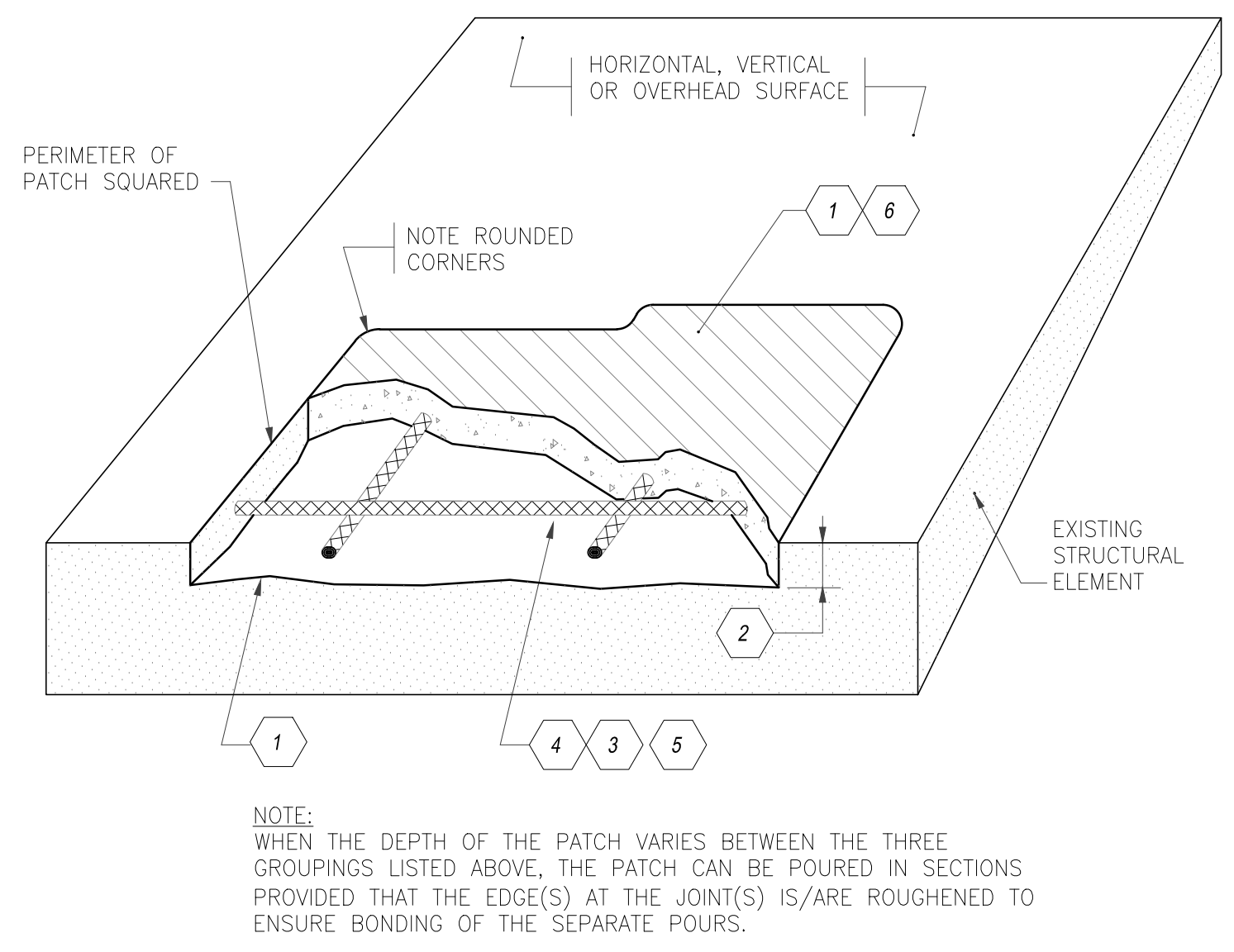


UNDER CUTTINGS AT REINFORCING SURFACES B3
 SCALE: 3/4" = 1'-0" SC502



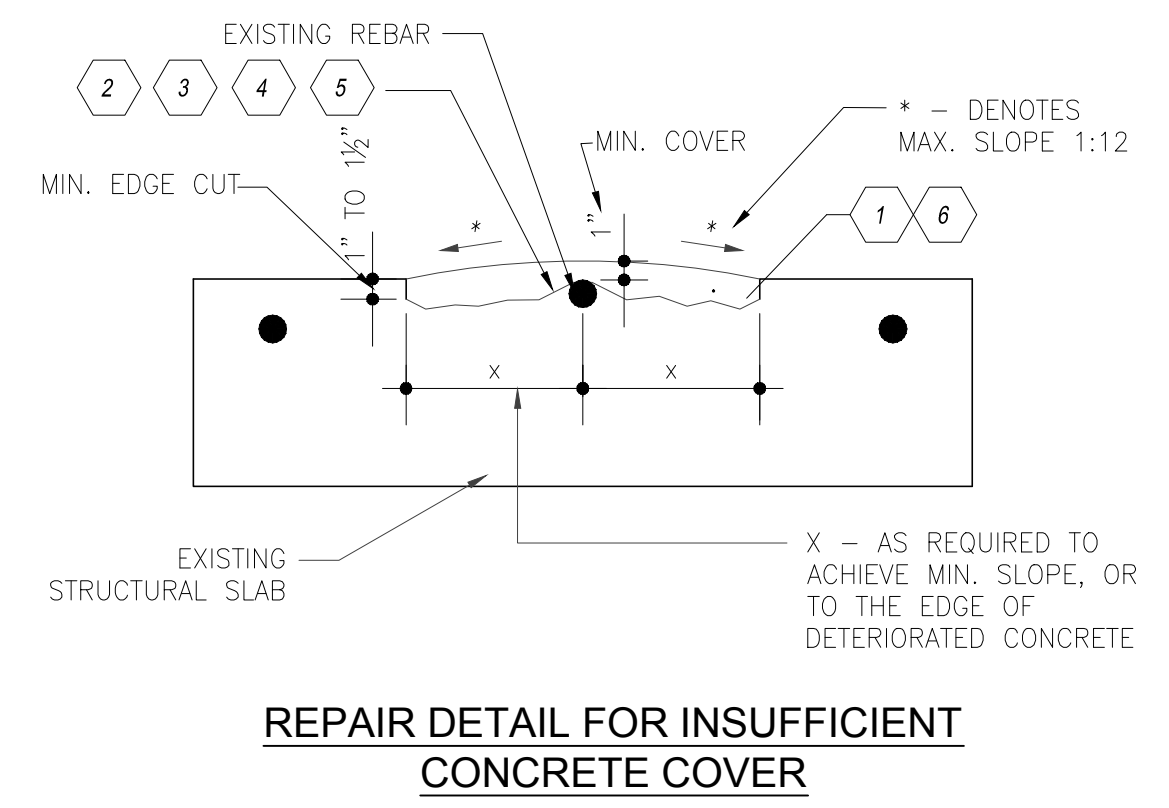
WATERPROOFING OF RANDOM CRACKS B2
 SCALE: 3/4" = 1'-0" SC502

NOT USED B1
 SC502



REPAIR DETAIL FOR SPALLED/DELAMINATED CAST-IN-PLACE SLABS, WALLS & BEAMS A2
 SCALE: 1/4" = 1'-0" SC502

- PROCEDURE NOTES:**
1. CHIP OUT ALL LOOSE AND DETERIORATED CONCRETE DOWN TO SOUND CONCRETE, LEAVING A NEW AGGREGATE FRACTURED SURFACE WITH A PROFILE OF 3/4".
 2. PREPARE PATCH PERIMETER FOR PROPER EDGE CONDITIONING, AS SHOWN IN "EDGE PREPARATION METHOD" DETAIL ON THIS SHEET.
 3. REMOVE SUBSTRATE UNDER (OR OVER) REINFORCING BARS.
 4. PROVIDE REBAR CUTTING AND SPLICING WHERE REQUIRED, AS PER ACI 318.
 5. CLEAN EXPOSED REINFORCING STEEL AND THEN COAT WITH EPOXY RESIN/CEMENT BONDING AGENT.
 6. PLACE NEW REPAIR MORTAR OR CONCRETE AS OUTLINED BELOW:
- FOR PATCH DEPTH OF:**
- | | |
|------------------------------|---|
| 1/2" TO 1" | POLYMER-MODIFIED REPAIR MORTAR. |
| 1" TO LESS THAN 2 1/2" | POLYMER-MODIFIED REPAIR MORTAR WITH 3/8" MAXIMUM CLEAN COARSE AGGREGATE ADDED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. |
| EQUAL OR GREATER THAN 2 1/2" | APPLY HI-MOD EPOXY BONDING AGENT TO THE SUBSTRATE, WITH 40-80% COVERAGE ON THE SUBSTRATE, AND PLACE NEW CONCRETE WHILE BONDING AGENT IS STILL TACKY. ALTERNATE: POLYMER-MODIFIED REPAIR MORTAR (OR APPROVED EQUAL) WITH 3/4" MAXIMUM CLEAN COARSE AGGREGATE ADDED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. |



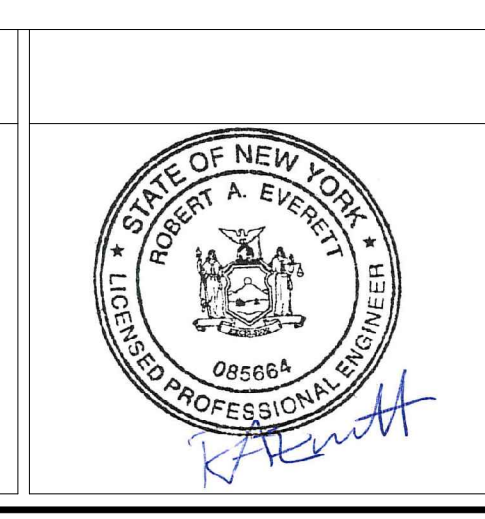
REPAIR DETAIL FOR INSUFFICIENT CONCRETE COVER A2

- GENERAL NOTES:**
1. WHEN MAKING REPAIRS TO AREAS WHICH WERE REPAIRED PREVIOUSLY, CONDITIONS MAY BE UNCOVERED IN WHICH ORIGINAL REINFORCING STEEL WAS REMOVED. IN THESE CASES, NEW REINFORCING STEEL SHALL BE ADDED, INCLUDING ANY NECESSARY SPLICES WHICH MAY BE REQUIRED TO REPLACE THE MISSING REINFORCING STEEL. (THESE SITUATIONS WILL BE REVIEWED CASE BY CASE IN THE FIELD AND SPECIFIC DIRECTIONS WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER AT THAT TIME.)
 2. THE ELEVATED SLABS BETWEEN THE SECOND AND SIXTH LEVEL ARE POST-TENSIONED. THE CONTRACTOR SHALL BE EXTREMELY CAREFUL AND AVOID DAMAGING THE POST-TENSIONING CABLES. ANY DAMAGE DONE TO THE POST-TENSIONING CABLES AS A RESULT OF THE CONTRACTOR'S WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE VA.

SHEET NOTE A1
 SC502

Revisions	Date

CONSULTANTS:



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EVERETT ENGINEERS

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Drawing Title
 TYPICAL REPAIR DETAILS AND NOTES

Approved Project Director

Project Title
 GARAGE STRUCTURAL REPAIR DESIGN

Location
 SYRACUSE

Date
 1/24/2014

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 RF

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Project Number
 528A7-12-701

Building Number
 19

Drawing Number
 SC502

Dwg. 19 of 28

Office of Construction and Facilities Management

Department of Veterans Affairs