

# CC PARKING GARAGE SE STAIR REPAIR

## IDAS PROJECT #: 9464.00

EAST GRAND AND PENNSYLVANIA AVENUE, DES MOINES,  
IOWA 50309




PROJECT LOCATION

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S110	ALTERNATE 1 NW STAIR TOWER LEVEL 1 AND 2 REPAIR

### CERTIFICATIONS

STRUCTURAL ENGINEER



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: *Christopher R. Marvin* DATE: 5-9-2025

PRINTED OR TYPED NAME: Christopher R. Marvin

LICENSE NUMBER: P27417

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025

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CC PARKING GARAGE SE STAIR  
REPAIR

ISSUED FOR: CONSTRUCTION  
PROJECT ISSUE DATE: 05/08/2025

G000

EAST GRAND AND PENNSYLVANIA AVENUE, DES MOINES, IOWA  
50309

PROJECT NUMBER: 2250001680

STRUCTURAL  
GENERAL  
INFORMATION &  
DETAILS  
S000

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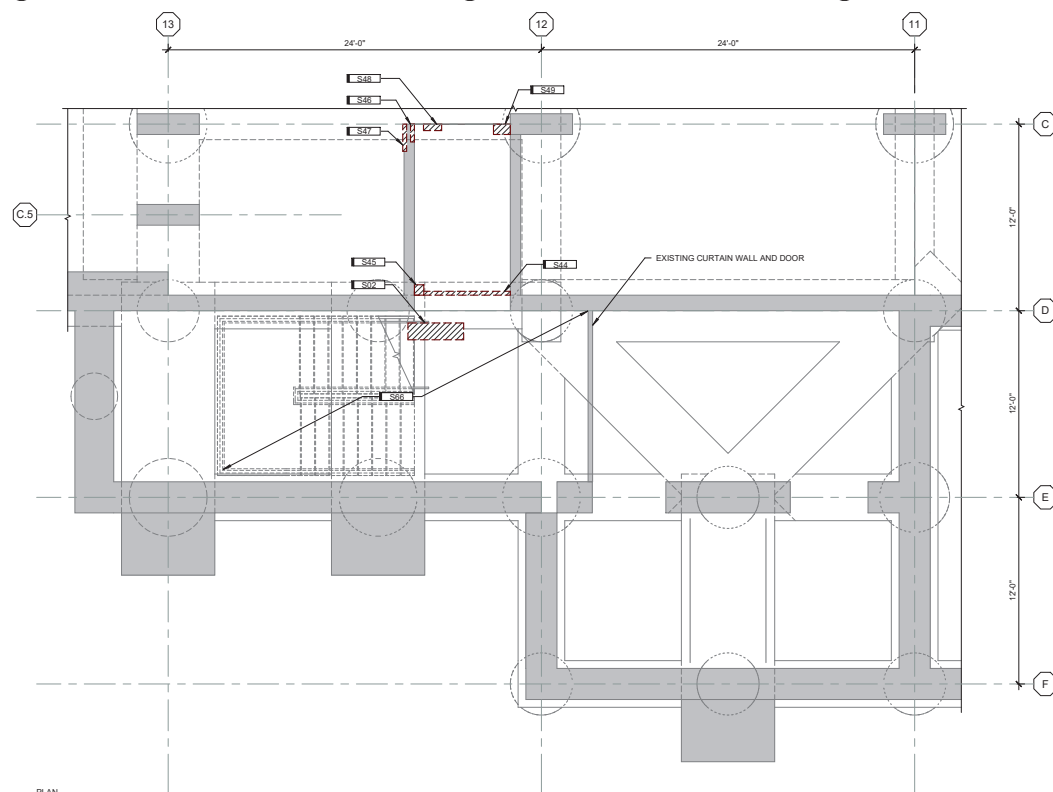
2  
CC PARKING GARAGE SE STAIR  
REPAIR

EAST GRAND AND PENNSYLVANIA AVENUE, DES MOINES, IOWA

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ISSUED FOR	CONSTRUCTION
ISSUE DATE	04/09/2023
PROJECT NUMBER	225000180
FIGURE NO.	

## LEVEL B REPAIRS | 4

S101



PLAN NORTH

**LEVEL B REPAIR PLAN**

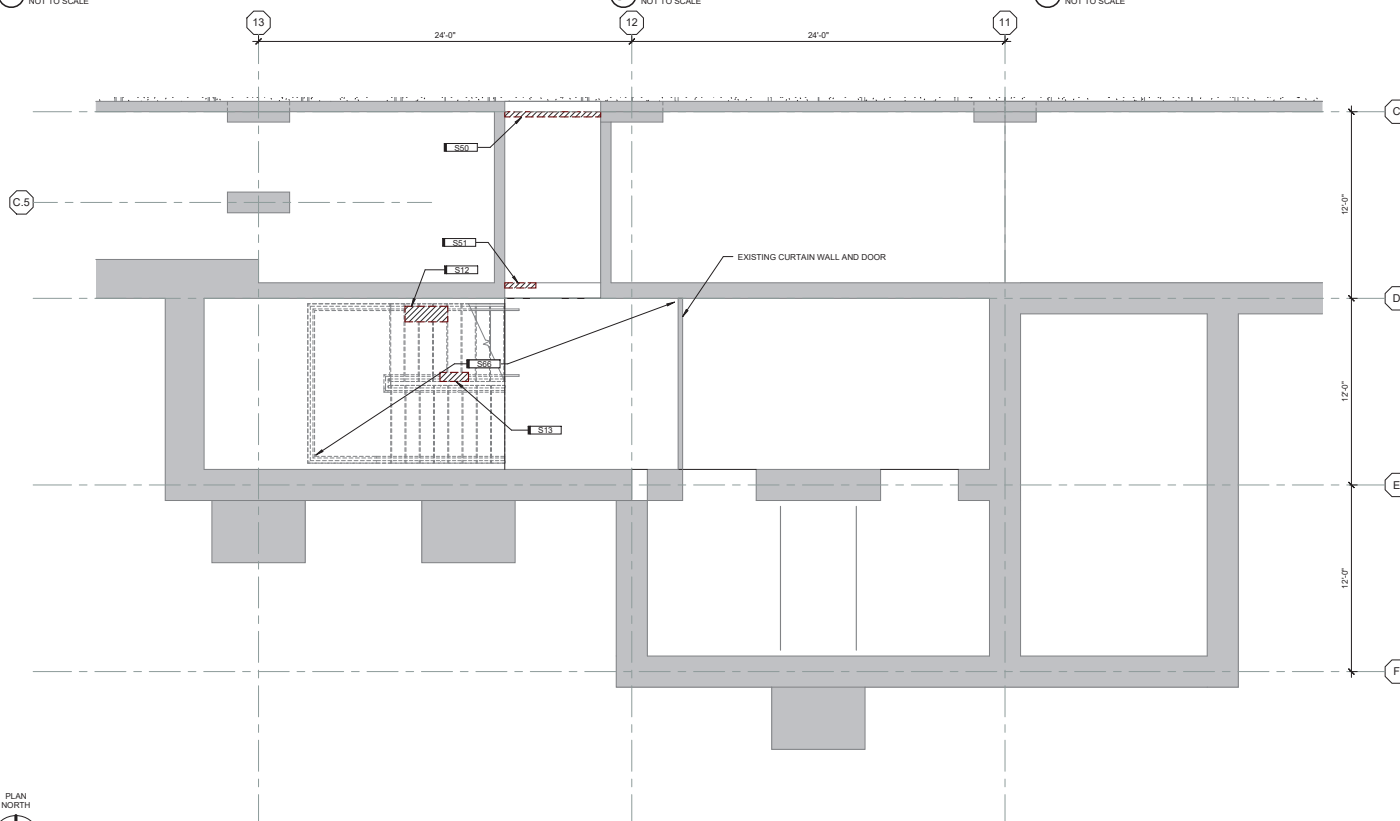


KEYNOTES	
KEY	NOTE
S12	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 39 AND DETAIL B4/S3000.
S13	APPROXIMATELY 2 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 40 AND DETAIL B4/S3000.
S50	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 37 AND DETAIL B4/S3000.
S51	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE BEAM PATCHING. SEE PHOTO 38 AND DETAIL D3/S3000.
S66	ALT #2: PROVIDE PENETRATING SEALER TO ALL HORIZONTAL JOINT SURFACES.

**PHOTO 37**  
NOT TO SCALE

PHOTO 38  
NOT TO SCALE

PHOTO 39  
NOT TO SCALE



**(E3) PHOTO 40**  
NOT TO SCALE



**(A4) LEVEL A REPAIR PLAN**





**A2** PHOTO 32  
NOT TO SCALE



PHOTO 33  
NOT TO SCALE



**(D2) PHOTO 34**  
NOT TO SCALE

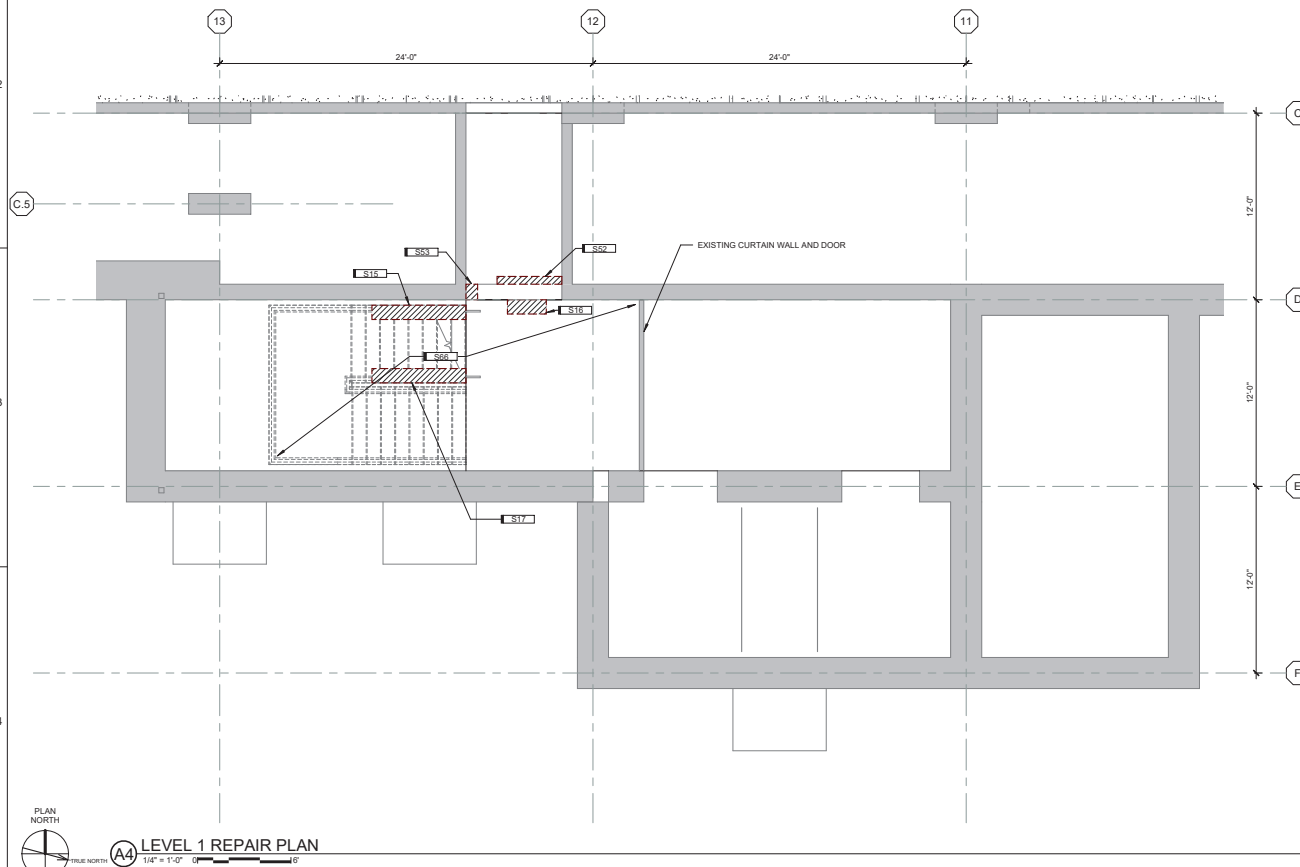
KEYNOTES	
KEY	NOTE
S15	APPROXIMATELY 13 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 35 AND DETAIL B4/5000.
S16	APPROXIMATELY 3 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 33 AND DETAIL B4/5000.
S17	APPROXIMATELY 13 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 32 AND DETAIL B4/5000.
S52	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 34 AND DETAIL B4/5000.
S53	APPROXIMATELY 1 SQUARE FOOT OF OVERHEAD CONCRETE BEAM PATCHING. SEE PHOTO 36 AND DETAIL D3/5000.
S66	ALT J2: PROVIDE PENETRATING SEALER TO ALL CRACKS IN STAIRS (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100).



**(E3) PHOTO 35**  
NOT TO SCALE



**E4** PHOTO 36  
NOT TO SCALE



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2  
CC PARKING GARAGE SE STAIR  
REPAIR

EAST GRAND AND PENNSYLVANIA AVENUE, DES MOINES, IOWA  
50300

3

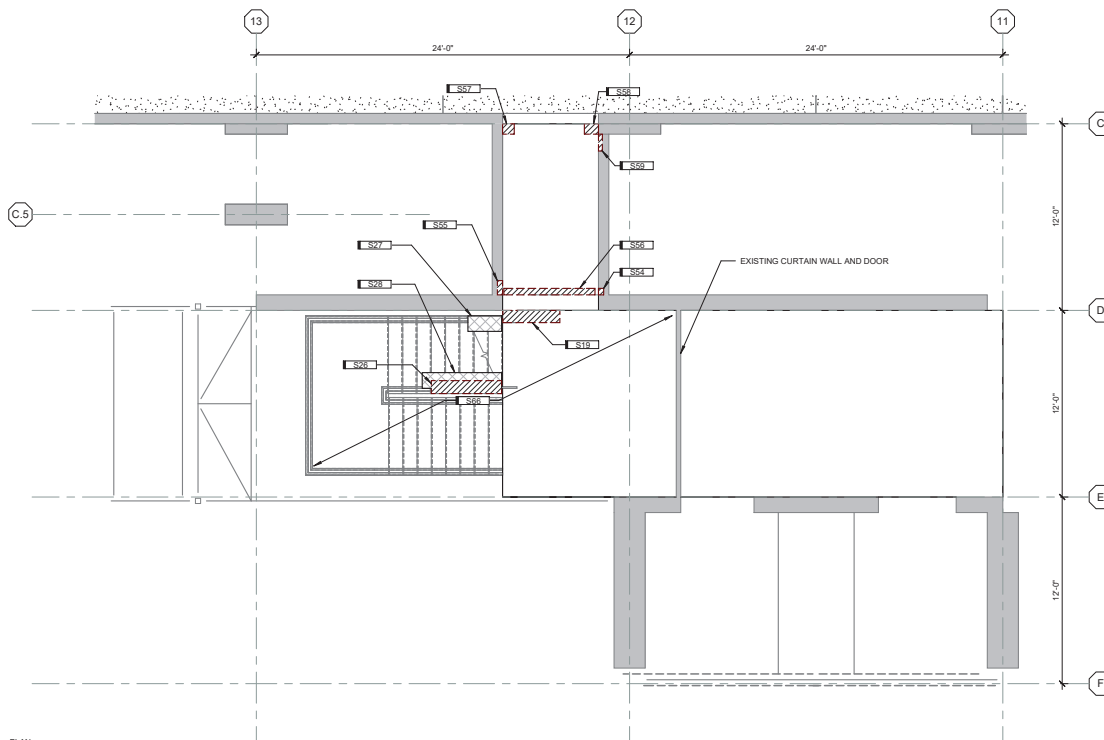
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PROJECT NUMBER	225001060

## 4 LEVEL 1 REPAIRS

S103

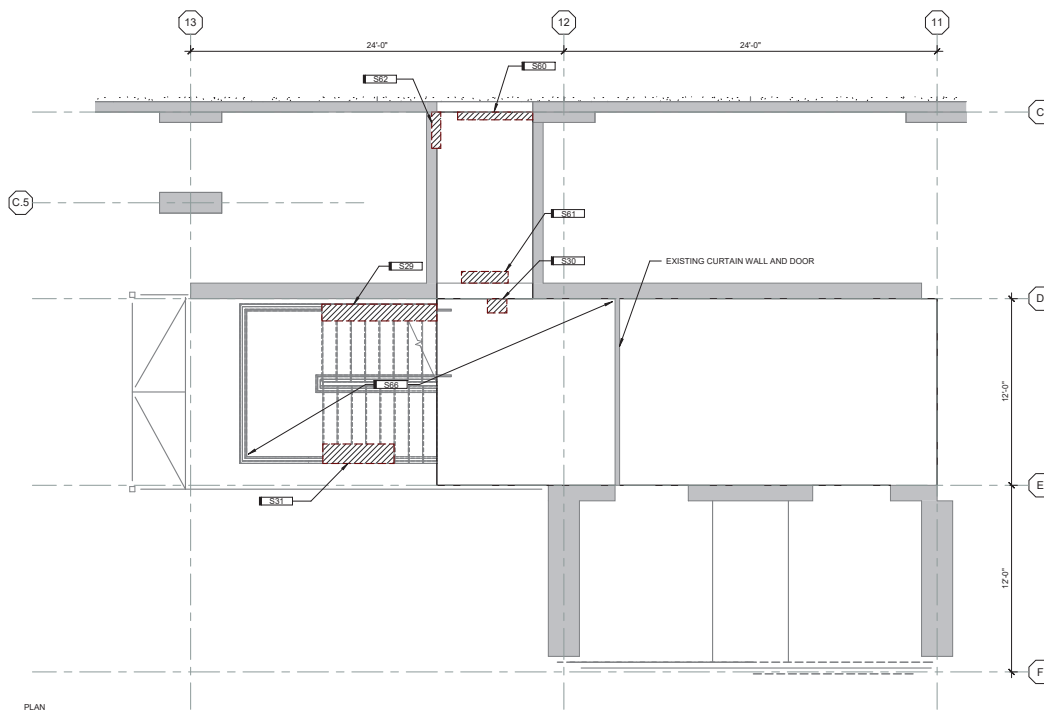


KEYNOTES	
S19	NOTE
K17	APPROXIMATELY 7 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 27 AND DETAIL D45000.
S26	APPROXIMATELY 8 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 28 AND DETAIL D45000.
S27	APPROXIMATELY 12 SQUARE FEET OF STAIR TREAD REPLACEMENT. SEE PHOTO 29 AND DETAIL D45000.
S28	APPROXIMATELY 10 SQUARE FEET OF STAIR TREAD REPLACEMENT. SEE PHOTO 30 AND DETAIL D45000.
S54	APPROXIMATELY 1 SQUARE FOOT OF OVERHEAD CONCRETE BLEM PATCHING. SEE PHOTO 26 AND DETAIL D3A5000.
S55	APPROXIMATELY 3 SQUARE FEET OF OVERHEAD CONCRETE BLEM PATCHING. SEE PHOTO 25 AND DETAIL D3A5000.
S56	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 24 AND DETAIL D45000.
S57	APPROXIMATELY 2 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 21 AND DETAIL D45000.
S58	APPROXIMATELY 2 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 22 AND DETAIL D45000.
S59	APPROXIMATELY 2 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 23 AND DETAIL D3A5000.
AL #2: PROVIDE PENETRATING SEALER TO ALL HORIZONTAL STAIR RISERS.	





KEYNOTES	
	NOTE
S29	APPROXIMATELY 10 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. POTENTIAL CONSULT CONFLICT. SEE PHOTO 15 AND DETAIL BA/5000.
S30	APPROXIMATELY 2 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. POTENTIAL CONSULT CONFLICT. SEE PHOTO 16 AND DETAIL BA/5000.
S31	APPROXIMATELY 8 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 14 AND DETAIL BA/5000.
S60	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTOS 18 AND 19 AND DETAIL BA/5000.
S61	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 17 AND DETAIL BA/5000.
S62	APPROXIMATELY 4 SQUARE FEET OF OVERHEAD CONCRETE BEAMS PATCHING. SEE PHOTO 20 AND DETAIL D/3000.
	ALT #2: PROVIDE PENETRATING SEALER TO ALL SPRINKLER



### A4 LEVEL 3 REPAIR PLAN





**A2** PHOTO 9  
NOT TO SCALE



PHOTO 10  
NOT TO SCALE



**PHOTO 11**  
NOT TO SCALE

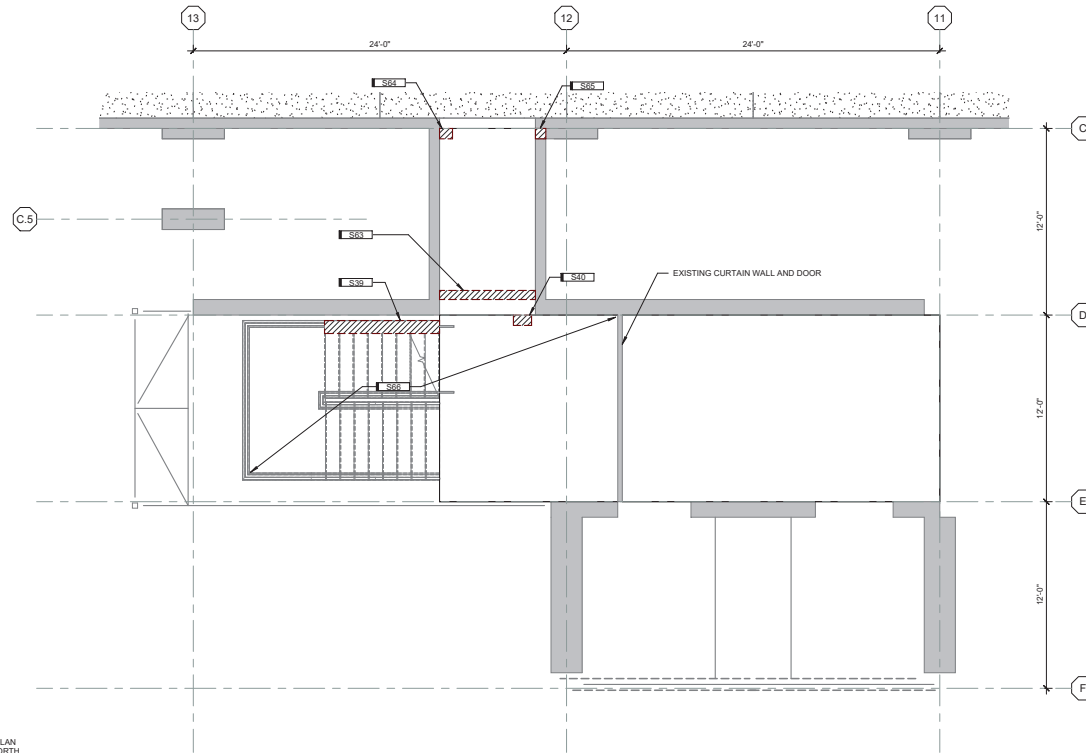
KEYNOTES	
	NOTE
S39	APPROXIMATELY 10 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. SEE PHOTO 13 AND DETAIL B4/S500.
S40	APPROXIMATELY 7 SQUARE FEET OF OVERHEAD CONCRETE PATCHING. POTENTIAL CONDUIT CONFLICT. SEE PHOTO 12 AND DETAIL B4/S500.
S63	APPROXIMATELY 1 SQUARE FEET OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 11 AND DETAIL B4/S500.
S64	APPROXIMATELY 1 SQUARE FOOT OF OVERHEAD CONCRETE SLAB PATCHING. SEE PHOTO 10 AND DETAIL B4/S500.
S65	APPROXIMATELY 1 SQUARE FOOT OF OVERHEAD CONCRETE END OF BEAM PATCHING. SEE PHOTO 09 AND DETAIL D3A/S500.
S66	ALT #2. PROPOSED PENETRATING SEALER TO ALL HORIZONTAL STRAT SURFACES.



**E3** PHOTO 12  
NOT TO SCALE



**PHOTO 13**  
E4 NOT TO SCALE



PLAN  
NORTH



**(A4) LEVEL 4 REPAIR PLAN**

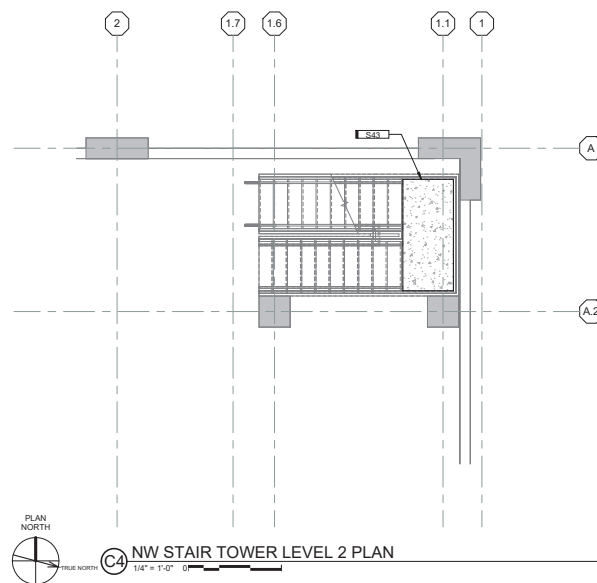
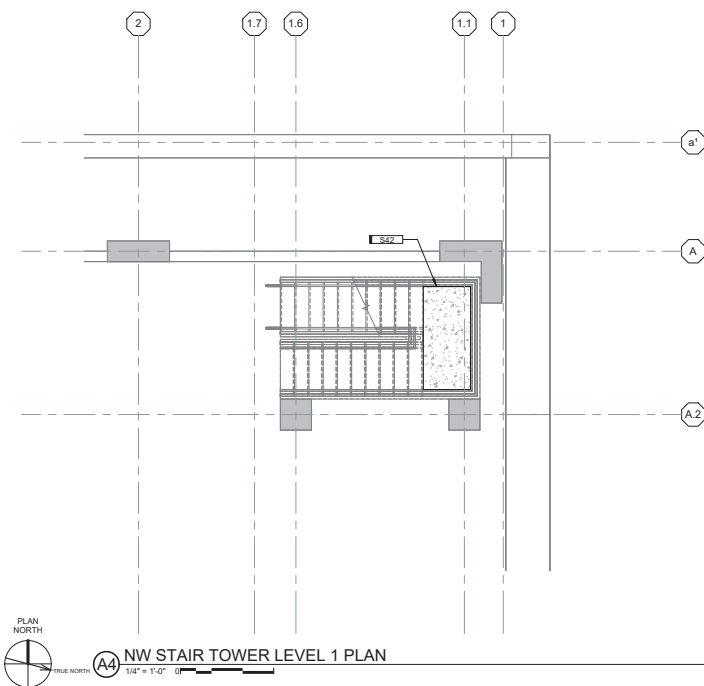




(A2) PHOTO 42  
1" = 1'-0" 0' 0"



PHOTO 43



KEYNOTES	
KEY	NOTE
S42	ALT #1: APPROXIMATELY 40 SQUARE FEET OF CONCRETE TOPPING SLAB REPLACEMENT. REPLACE ENTIRE TOPPING SLAB WITH 2" MINIMUM SLAB THICKNESS. SEE PHOTO 42 AND DETAIL A4/S000.
S43	ALT #1: APPROXIMATELY 40 SQUARE FEET OF CONCRETE TOPPING SLAB REPLACEMENT. REPLACE ENTIRE TOPPING SLAB WITH 2" MINIMUM SLAB THICKNESS. SEE PHOTO 43 AND DETAIL A4/S000.

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2  
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PROJECT NUMBER	22500160
SEE DRAWING	

4  
ALTERNATE 1 NW  
STAIR TOWER  
LEVEL 1 AND 2  
REPAIR

S110