

12/6/2023 1:50:28 PM

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CITY OF MADISON

2024 PARKING GARAGE MAINTENANCE MADISON, WISCONSIN CITY OF MADISON CONTRACT NO. 9493 BID DOCUMENTS

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SOUTH LIVINGSTON STREET (SLS) **111 SOUTH LIVINGSTON STREET**

SHEET INDEX

Number	Sheet Name
	COVER SHEET
	ESTIMATED PLAN QUANTITIES
00	STATE STREET CAPITOL LOWER LEVEL PLAN
)1	STATE STREET CAPITOL LEVEL 1 PLAN
2	STATE STREET CAPITOL LEVEL 2 PLAN
13	STATE STREET CAPITOL LEVEL 3 PLAN
)4	STATE STREET CAPITOL LEVEL 4 PLAN
)5	STATE STREET CAPITOL LEVEL 5 PLAN
6	STATE STREET CAPITOL LEVEL 6 PLAN
00	CAPITOL SQUARE NORTH LOWER LEVEL PLAN
)1	CAPITOL SQUARE NORTH LEVEL 1 PLAN
)2	CAPITOL SQUARE NORTH LEVEL 2 PLAN
)3	CAPITOL SQUARE NORTH LEVEL 3 PLAN
)4	CAPITOL SQUARE NORTH LEVEL 4 PLAN
1	SOUTH LIVINGSTON STREET LEVEL 1 PLAN
4	SOUTH LIVINGSTON STREET LEVEL 4 PLAN
5	SOUTH LIVINGSTON STREET LEVEL 5 PLAN
98	WILSON STREET LOWER LEVEL 2 PLAN
99	WILSON STREET LOWER LEVEL 1 PLAN
00	WILSON STREET LOWER LEVEL 0 PLAN
01	WILSON STREET LEVEL 1 PLAN
	PLUMBING SYMBOLS, SCHEDULES, & ABBREVIATIONS
	LEVEL U2 PLUMBING PLAN - SANITARY & VENT
	LEVEL U1 PLUMBING PLAN - SANITARY & VENT
	LEVEL U0 PLUMBING PLAN - SANITARY & VENT
	DETAILS



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Madison Municipal Building 215 Martin Luthing King Blvd Suite 109 Madison, Wisconsin 53703



2024 PARKING GARAGE MAINTENANCE

ISSUE: 1 12/08/2023 BID DOCUMENTS

PROJECT INFORMATION: PROJECT NUMBER: 2023-5008.02 12/08/2023 DATE: DRAWN BY: AMG AMG CHECKED BY: APPROVED BY: DFW AS NOTED SCALE:

COVER SHEET

SHEET TITLE:

SHEET NUMBER:

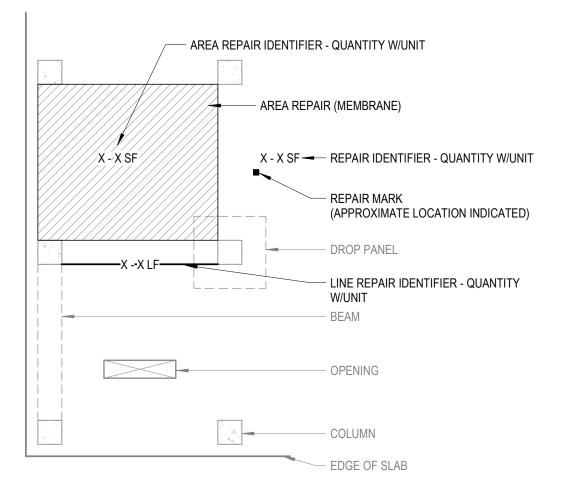


1 ESTIMATED PLAN QUANTITIES

PAY ITEM	X - X UNIT DESCRIPTION	DETAIL REFERENCE(S)	UNITS	SSCO QTY	CSN QTY	SLS QTY	WSG QTY	TOTAL QTY
1	CONCRETE TOPSIDE SURFACE SPALL REPAIR	B4 / S501	SF	50	125	0	95	270
2	CONCRETE OVERHEAD SURFACE SPALL REPAIR	C4 / S501	SF	100	15	0	0	115
3	CONCRETE VERTICAL SURFACE REPAIR	A3/S501 A4/S501	SF	35	115	0	0	150
4	CONCRETE BEAM SPALL REPAIR	B3 / S501	SF	10	10	0	0	20
5	FULL-SYSTEM MEMBRANE INSTALLATION OR REPLACEMENT	N/A	SF	0	19500	0	1560	21060
6	CONCRETE SLAB CRACK REPAIR: ROUT AND SEAL	B2/S501	LF	0	250	0	0	250
7	CONCRETE SLAB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2 / S501	LF	0	0	0	1500	1500
8	CMU CRACK/MORTAR JOINT REPAIR	N/A	LF	0	550	0	0	550
9	CMU REPLACEMENT	N/A	SF	0	30	0	0	30
10	SILANE SEALER APPLICATION (SSCO)	N/A	SF	301500	0	0	0	301500
11	REMOVE AND REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A	LF	600	600	0	300	1500
12	STEEL BARRIER REPAIRS (CSN)	B1/S501	EACH	0	2	0	0	2
13	REFASTEN EXISTING STAIR TREADS/COVER PLATES	N/A	EACH	10	10	0	0	20
14	INSTALL NEW PRECAST WALL/PANEL CONNECTION	SEE PLAN	EACH	2	0	4	0	6
15	INSTALL NEW FLOOR DRAINS	A5 / P001	EACH	0	0	0	7	7

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CONCRETE REPAIR PLAN LEGEND



ЫМ 28 50 <u>___</u> 12/6/2023

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ABBREVIATIONS

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1WAY	ONE-WAY
ADDL ADDM AHU ALT APPROX AR	ANCHOR BOLT ADDITIONAL ADDENDUM AIR HANDLING UNIT ALTERNATE APPROXIMATE AS REQUIRED ARCHITECT
3C 3F 3F 3M 3O 3OT 3RDG 3RG PL 3S	BASE PLATE BACK TO BACK BOTTOM CHORD BOTH FACES BOTTOM FACE BEAM BOTTOM OF (REFER TO TOP OF) BOTTOM BRIDGING BEARING PLATE BOTH SIDES BASEMENT BOTH WAYS
CANTIL CIP CJ CJ CL CMU COL CONC CONC CONSTR CONT CONTR CONT	COLUMN
dbl deg det demo dia	DEEP DEPTH DECK BEARING ELEVATION DOUBLE DEGREE DETAIL DEMOLITION DIAMETER DIAGONAL DIMENSION DIRECTION DEAD LOAD DRAWING
EA EE EJ EL ELEC ELEV ENGR EOD EOG EQUIP EQUIP EQUIV EW EXC EXIST, (E) EXP	EAST EACH EACH END EACH FACE EXPANSION JOINT ELEVATION ELECTRIC ELEVATOR ENGINEER EDGE OF DECK EDGE OF GRATING EDGE OF SLAB EQUAL EQUALLY SPACED EQUIPMENT EQUIVALENT EACH WAY EXCAVATE EXISTING EXPANSION BOLT EXTERIOR
=DTN =F =LR =R =S =S =STNR =T =TG	FLOOR DRAIN FOUNDATION FAR FACE FLOOR FRAME FAR SIDE FASTENER FEET FOOTING FUTURE
GLU LAM GR BM	GAGE GALVANIZED GENERAL CONTRACTOR GLUE LAMINATED WOOD GRADE BEAM GRATING
HS	HIGH HEADER HANGER HORIZONTAL HIGH STRENGTH HOUSEKEEPING HEIGHT
F	MOMENT OF INERTIA INSIDE DIAMETER INSIDE FACE INFORMATION INTERIOR
	JOIST JOIST BEARING
k Kip Klf Kop Ksf Ksi Kwy	KIP KNEE BRACE THOUSAND POUNDS KIPS PER LINEAR FOOT KNOCK OUT PANEL KIPS PER SQUARE FOOT KIPS PER SQUARE INCH KEYWAY
_ _ATL	ANGLE LATERAL

LATL

LB

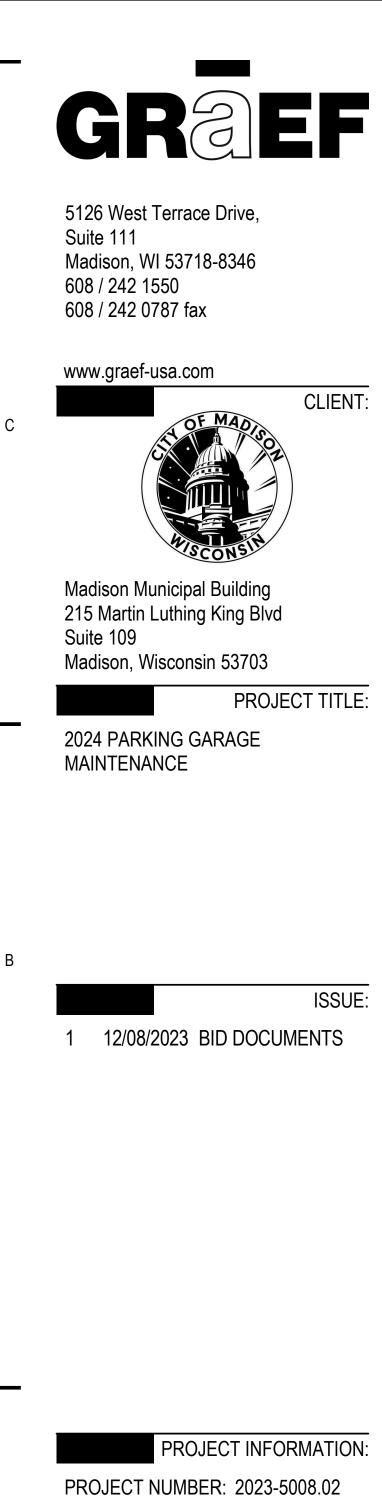
LATERAL POUND

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LD BRG LOAD-BEARING LDH LONG DIMENSION HORIZONTAL LDV LONG DIMENSION VERTICAL LL LIVE LOAD LLBB LONG LEG BACK TO BACK LONG LEG HORIZONTAL LLH LLV LONG LEG VERTICAL LVL LAMINATED VENEER LUMBER LVR LOUVER MOMENT MAX MAXIMUM MBR MEMBER MC MOMENT CONNECTION MD METAL DECK MECH MECHANICAL MEZZ MEZZANINE MANUFACTURER MFR MFR REC MANUFACTURER'S RECOMMENDATION MID MIDDLE MIN MINIMUM MISC MISCELLANEOUS ML MONOLITHIC MO MASONRY OPENING MTL METAL MULT MULTIPLE NORTH NEAR FACE NIC NOT IN CONTRACT NLB NON-LOAD-BEARING NO NUMBER NOM NOMINAL NS NEAR SIDE NOT TO SCALE NTS OC ON CENTER OD OUTSIDE DIAMETER OF OUTSIDE FACE OPNG OPENING OPH OPPOSITE HAND OPP OPT OPPOSITE OPTIONAL 0/0 OUT TO OUT PCC PRECAST CONCRETE PCF POUNDS PER CUBIC FOOT PLATE PL POUNDS PER LINEAR FOOT PLF PLYWD PLYWOOD PRCST PRECAST PRELIM PRELIMINARY PS CONC PRESTRESSED CONCRETE PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PT POST-TENSIONED ΡT PRESSURE TREATED PT CONC POST-TENSIONED CONCRETE QTY QUANTITY RADIUS ROOF DRAIN RD REF REFERENCE REINF REINFORCE REQD REQUIRED REVISION REV RS ROUGH SAWN RTU ROOF TOP UNIT SOUTH SCHED SCHEDULE SCHEM SCHEMATIC SE STRUCTURAL ENGINEER SECT SECTION SF SQUARE F SHT SHEET SIM SIMILAR SQUARE FOOT (FEET) SL SLAB SLBB SHORT LEG BACK TO BACK SP SPCL SUMP PIT SPECIAL SPEC SQ SPECIFICATION SQUARE SQ IN SQUARE INCH SQ YD SQUARE YARD STD STANDARD STIF STIFFENER STL JST STEEL JOIST STRUC STRUCTURAL SYMM SYMMETRICAL T&B TOP AND BOTTOM ΤB THROUGH BOLT TC TOP CHORD TEMJ TOP ELEVATION MATCHES JOIST TEMP TEMPORARY THK THICKNESS THRU THROUGH TOB TOP OF BEAM TOC TOP OF CONCRETE TOD TOP OF DECK TOF TOP OF FOUNDATION TOG TOP OF GRATING TOP TOP OF PIER TOS TOP OF STEEL TOW TOP OF WALL TS TUBE STEEL TYP TYPICAL UNO UNLESS NOTED OTHERWISE VAR VARIES VERT, V VERTICAL VIF VERIFY IN FIELD WEST W WIDE W WITH W/ W/O WITHOUT WBL WOOD BLOCKING WD WOOD WF WIDE FLANGE WP WORK POINT WT WEIGHT WELDED WIRE FABRIC WWF WWM WELDED WIRE MESH YD YARD

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PROJECT INFORMATION:			
PROJECT NUMBER:	2023-5008.02		
DATE:	12/08/2023		

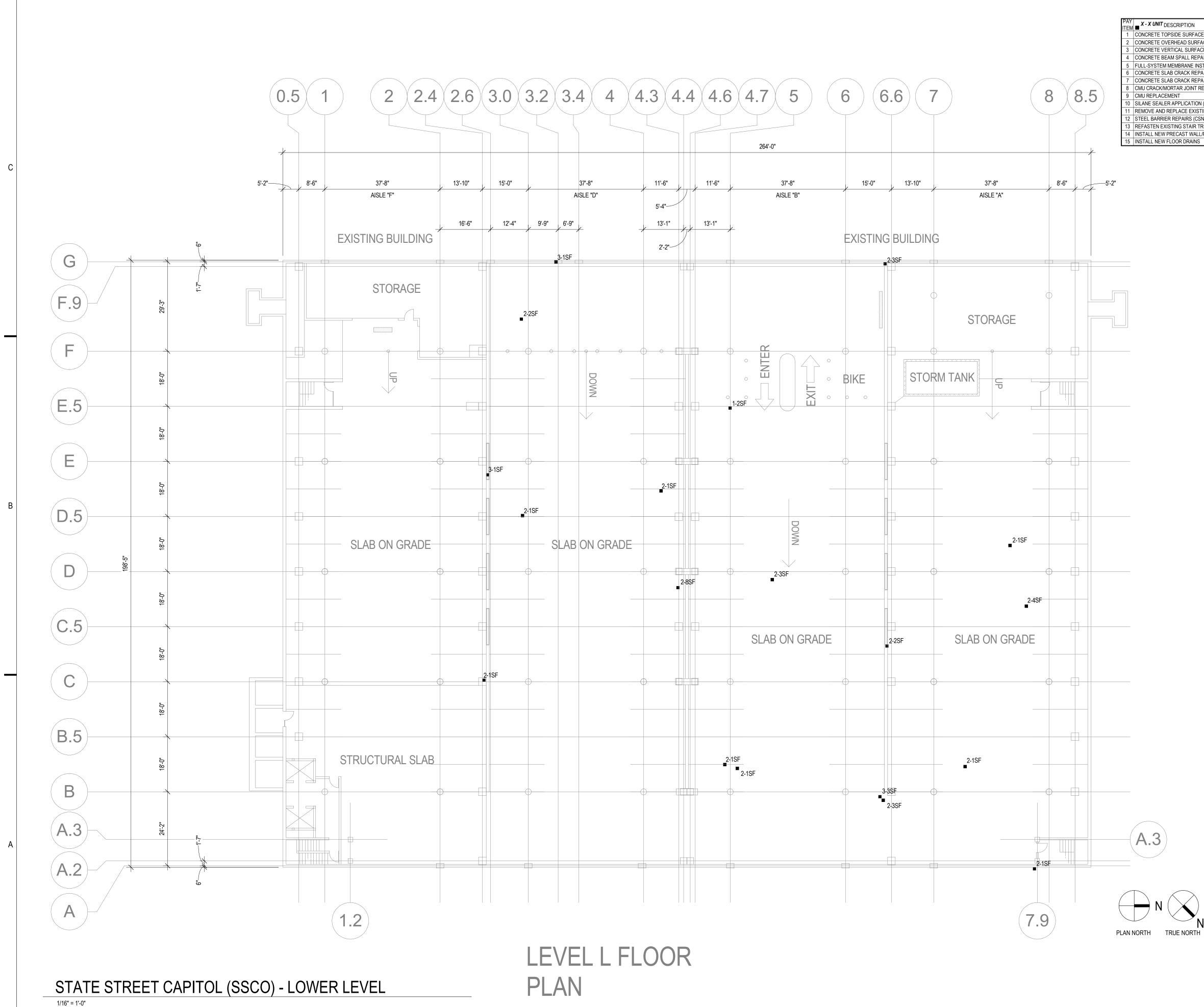
DRAWN BY:	AMG
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

ESTIMATED PLAN QUANTITIES

SHEET NUMBER:





12/6/2023 1:50:28 PM

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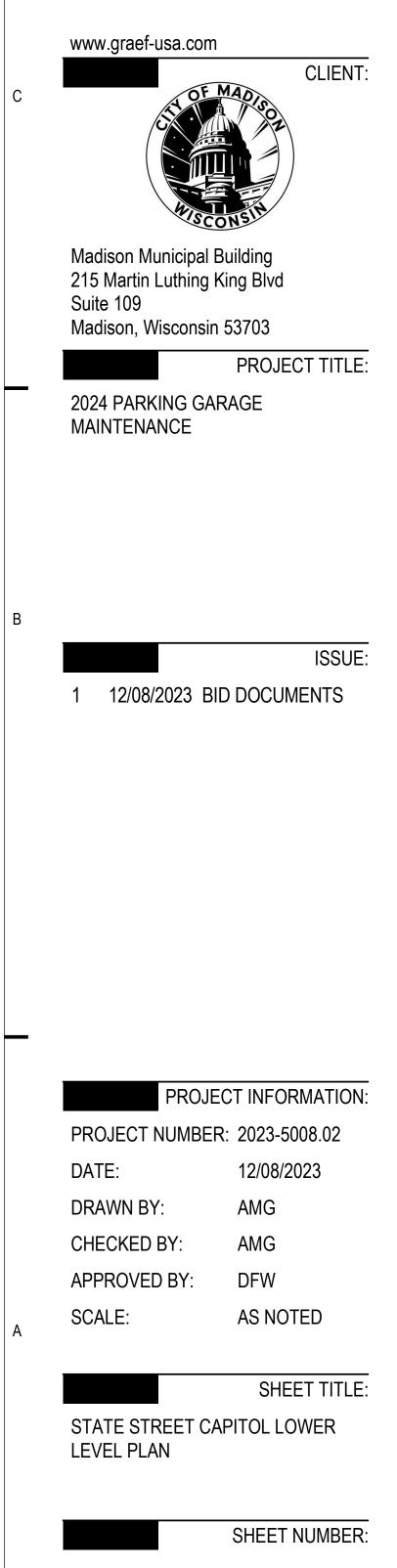
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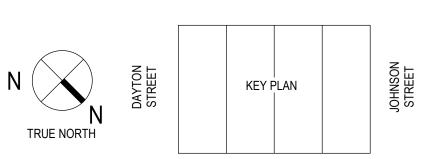
SCRIPTION	DETAIL REFERENCE(S)		
SIDE SURFACE SPALL REPAIR	B4 / S501		
RHEAD SURFACE SPALL REPAIR	C4 / S501		
FICAL SURFACE REPAIR	A3/S501 A4/S501		
/I SPALL REPAIR	B3 / S501		
EMBRANE INSTALLATION OR REPLACEMENT	N/A		
3 CRACK REPAIR: ROUT AND SEAL	B2/S501		
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501		
RTAR JOINT REPAIR	N/A		
ENT	N/A		
APPLICATION (SSCO)	N/A		
PLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A		
REPAIRS (CSN)	B1/S501		
TING STAIR TREADS/COVER PLATES	N/A		
ECAST WALL/PANEL CONNECTION	SEE PLAN		
OOR DRAINS	A5 / P001		



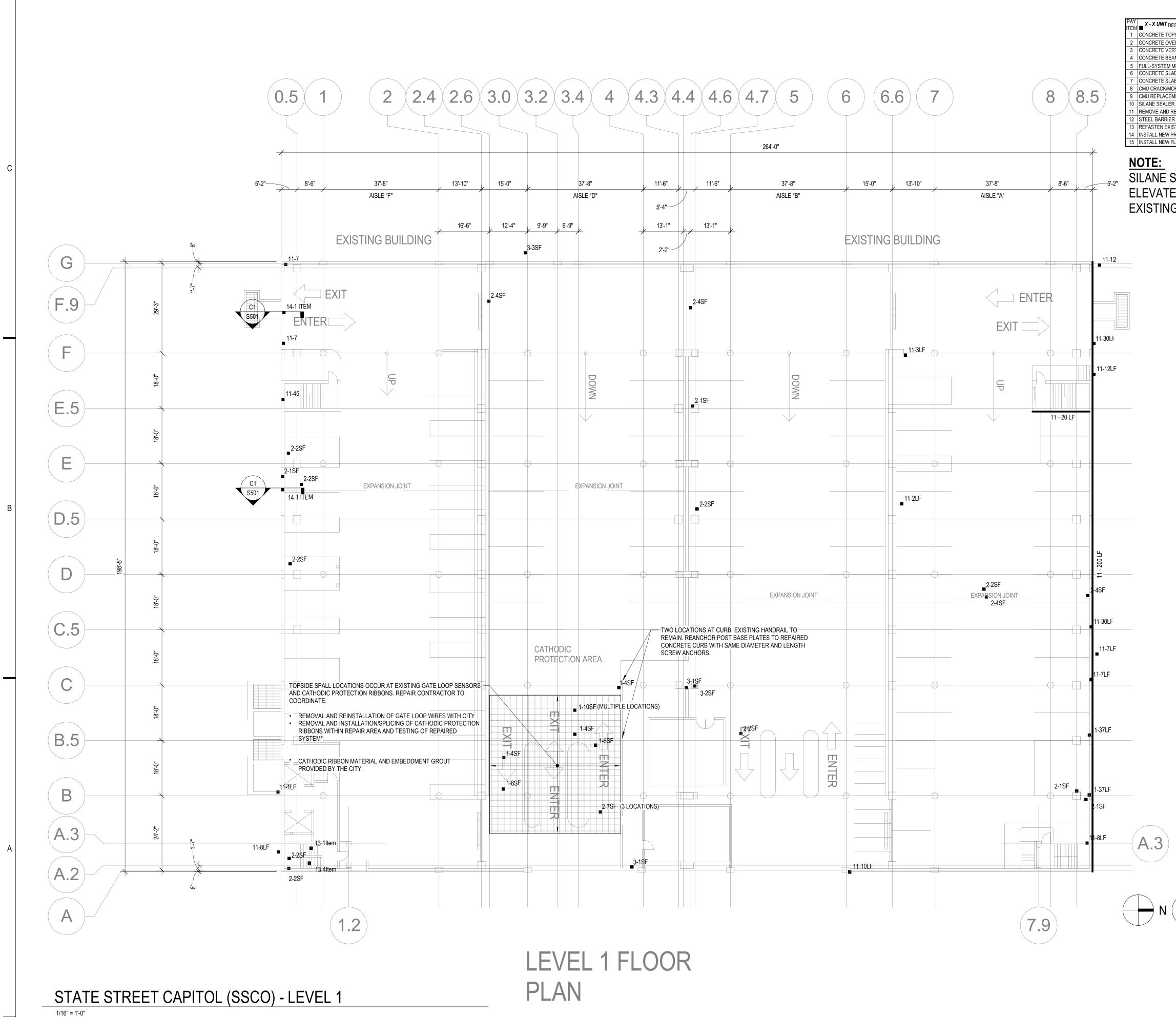
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SC-S100



CARROLL STREET



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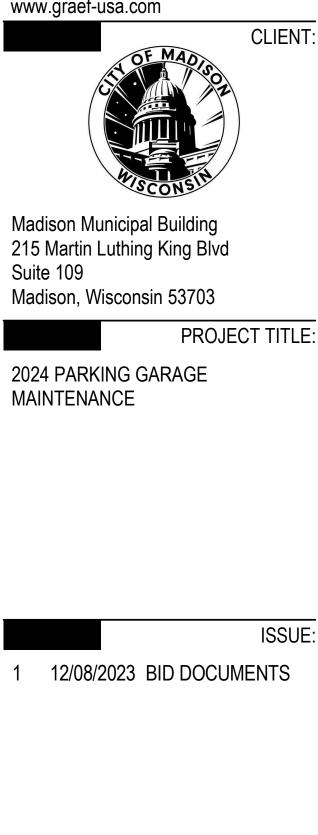
ESCRIPTION	DETAIL REFERENCE(S)	
PSIDE SURFACE SPALL REPAIR	B4 / S501	
ERHEAD SURFACE SPALL REPAIR	C4 / S501	
RTICAL SURFACE REPAIR	A3/S501 A4/S501	
AM SPALL REPAIR	B3/S501	
MEMBRANE INSTALLATION OR REPLACEMENT	N/A	
AB CRACK REPAIR: ROUT AND SEAL	B2/S501	
AB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501	
ORTAR JOINT REPAIR	N/A	
MENT	N/A	
R APPLICATION (SSCO)	N/A	
REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A	
R REPAIRS (CSN)	B1/S501	
ISTING STAIR TREADS/COVER PLATES	N/A	
PRECAST WALL/PANEL CONNECTION	SEE PLAN	
FLOOR DRAINS	A5 / P001	

SILANE SEALER TO BE APPLIED TO ALL ELEVATED STRUCTURAL SLABS WITHOUT EXISTING TRAFFIC-BEARING MEMBRANE.



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PROJECT INFORMATION: PROJECT NUMBER: 2023-5008.02

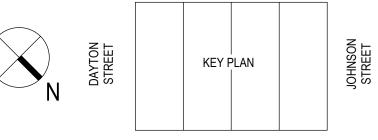
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CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE:

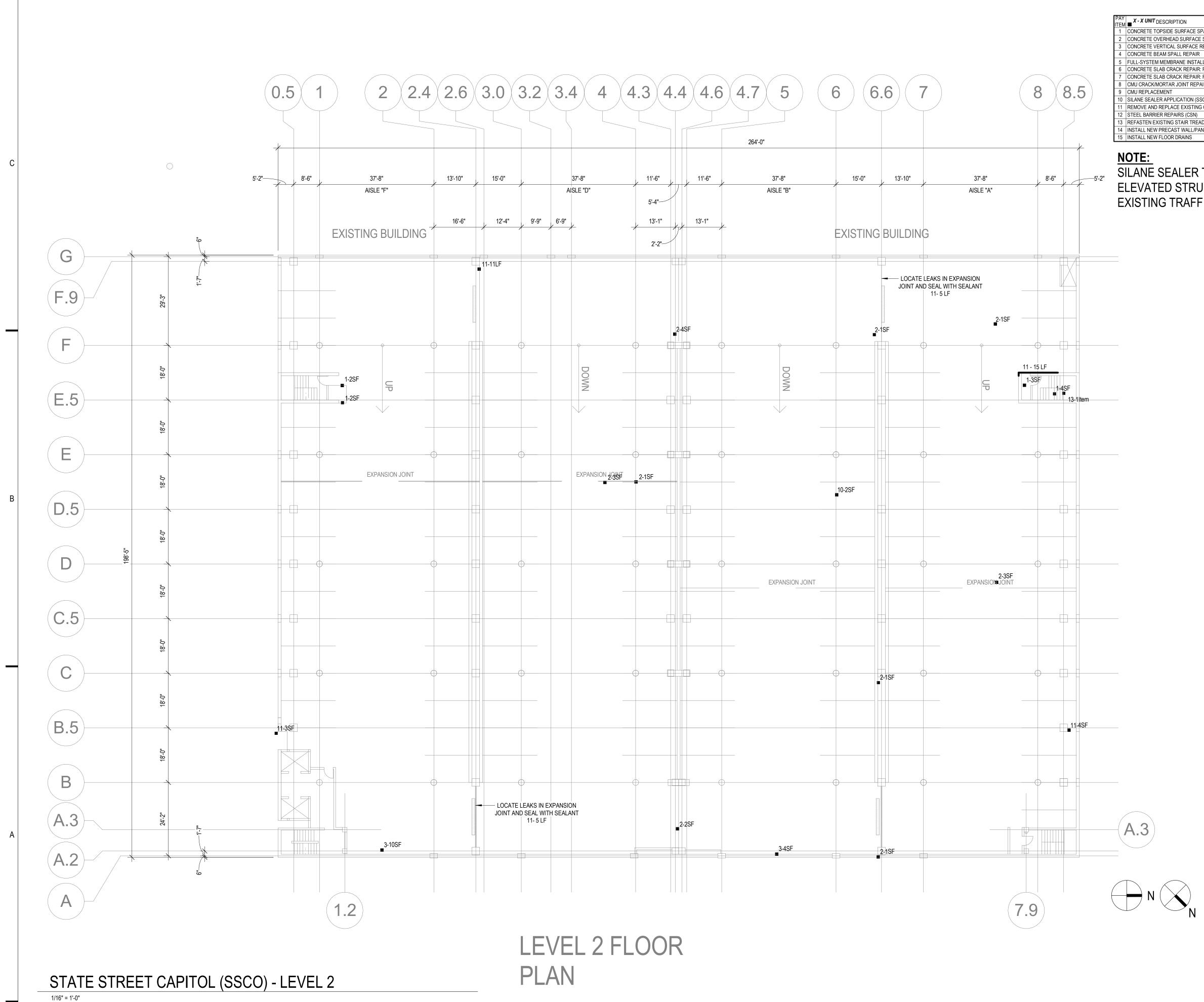
STATE STREET CAPITOL LEVEL 1 PLAN

SC-S101

SHEET NUMBER:



CARROLL STREET



(6/2023 1:50:28 PM

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ESCRIPTION	DETAIL REFERENCE(S)	
PSIDE SURFACE SPALL REPAIR	B4 / S501	
ERHEAD SURFACE SPALL REPAIR	C4 / S501	
RTICAL SURFACE REPAIR	A3/S501 A4/S501	
AM SPALL REPAIR	B3/S501	
MEMBRANE INSTALLATION OR REPLACEMENT	N/A	
AB CRACK REPAIR: ROUT AND SEAL	B2/S501	
AB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501	
ORTAR JOINT REPAIR	N/A	
MENT	N/A	
R APPLICATION (SSCO)	N/A	
REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A	
R REPAIRS (CSN)	B1/S501	
ISTING STAIR TREADS/COVER PLATES	N/A	
PRECAST WALL/PANEL CONNECTION	SEE PLAN	
FLOOR DRAINS	A5 / P001	

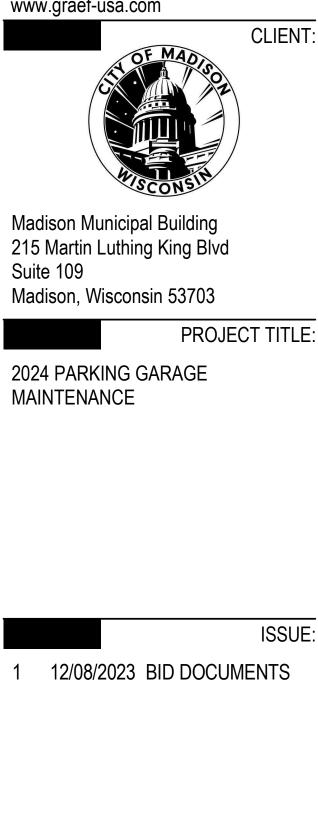
SILANE SEALER TO BE APPLIED TO ALL ELEVATED STRUCTURAL SLABS WITHOUT EXISTING TRAFFIC-BEARING MEMBRANE.



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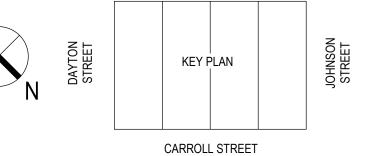
PROJECT INFORMATION: PROJECT NUMBER: 2023-5008.02 10/00/0000

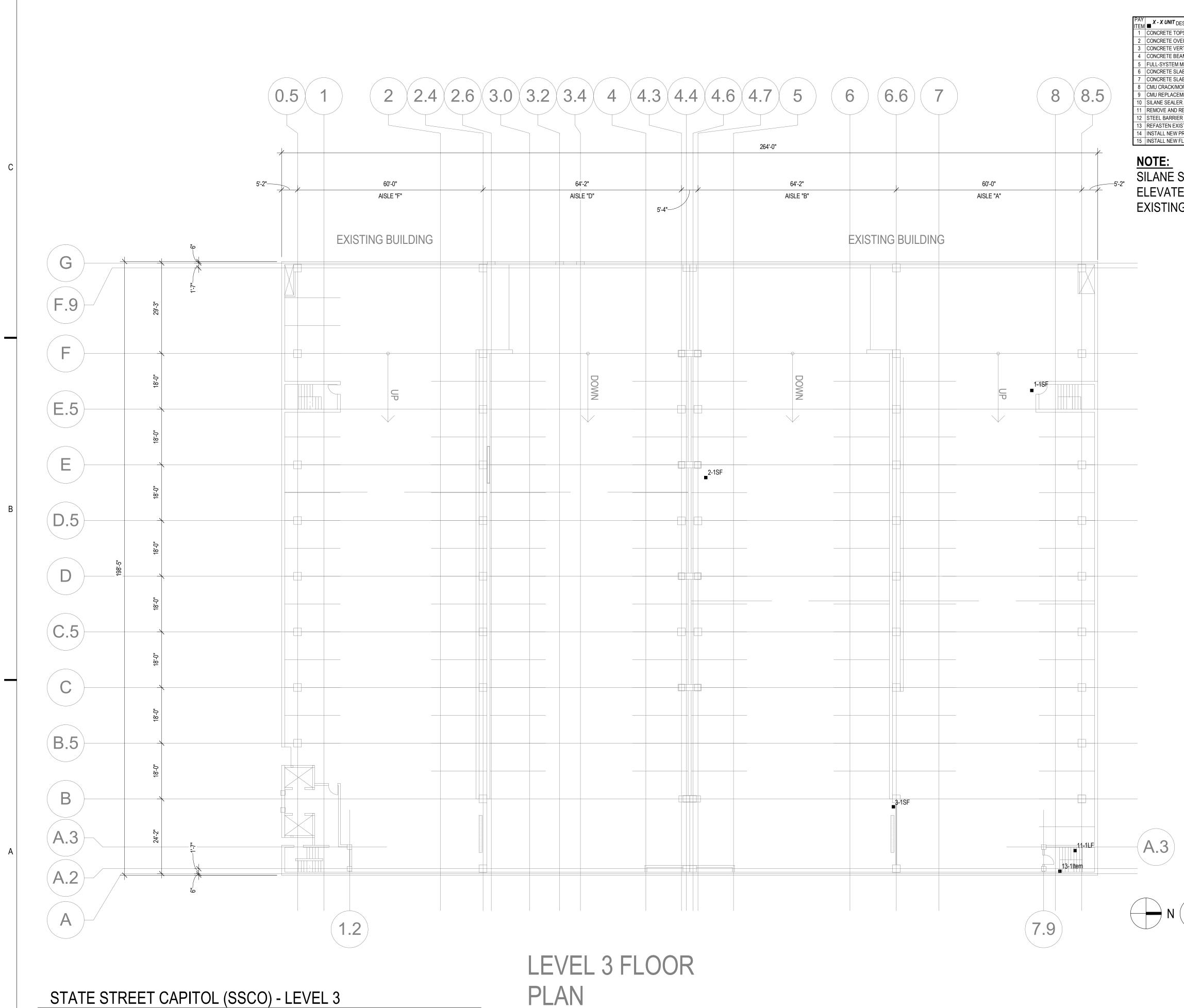
DATE:	12/08/2023
DRAWN BY:	AMG
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE: STATE STREET CAPITOL LEVEL 2 PLAN

SC-S102

SHEET NUMBER:





2/6/2023 1:50:28 PM

1/16" = 1'-0"

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ESCRIPTION	DETAIL REFERENCE(S)	
PSIDE SURFACE SPALL REPAIR	B4 / S501	
ERHEAD SURFACE SPALL REPAIR	C4 / S501	
RTICAL SURFACE REPAIR	A3/S501 A4/S501	
AM SPALL REPAIR	B3/S501	
MEMBRANE INSTALLATION OR REPLACEMENT	N/A	
AB CRACK REPAIR: ROUT AND SEAL	B2/S501	
AB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501	
ORTAR JOINT REPAIR	N/A	
MENT	N/A	
R APPLICATION (SSCO)	N/A	
REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A	
R REPAIRS (CSN)	B1/S501	
STING STAIR TREADS/COVER PLATES	N/A	
PRECAST WALL/PANEL CONNECTION	SEE PLAN	
FLOOR DRAINS	A5 / P001	

SILANE SEALER TO BE APPLIED TO ALL ELEVATED STRUCTURAL SLABS WITHOUT EXISTING TRAFFIC-BEARING MEMBRANE.



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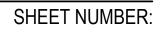
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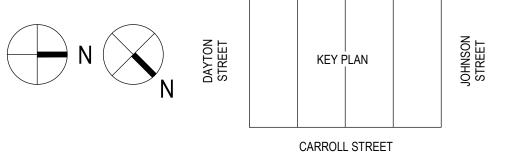
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DRAWN BY:	AMG
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

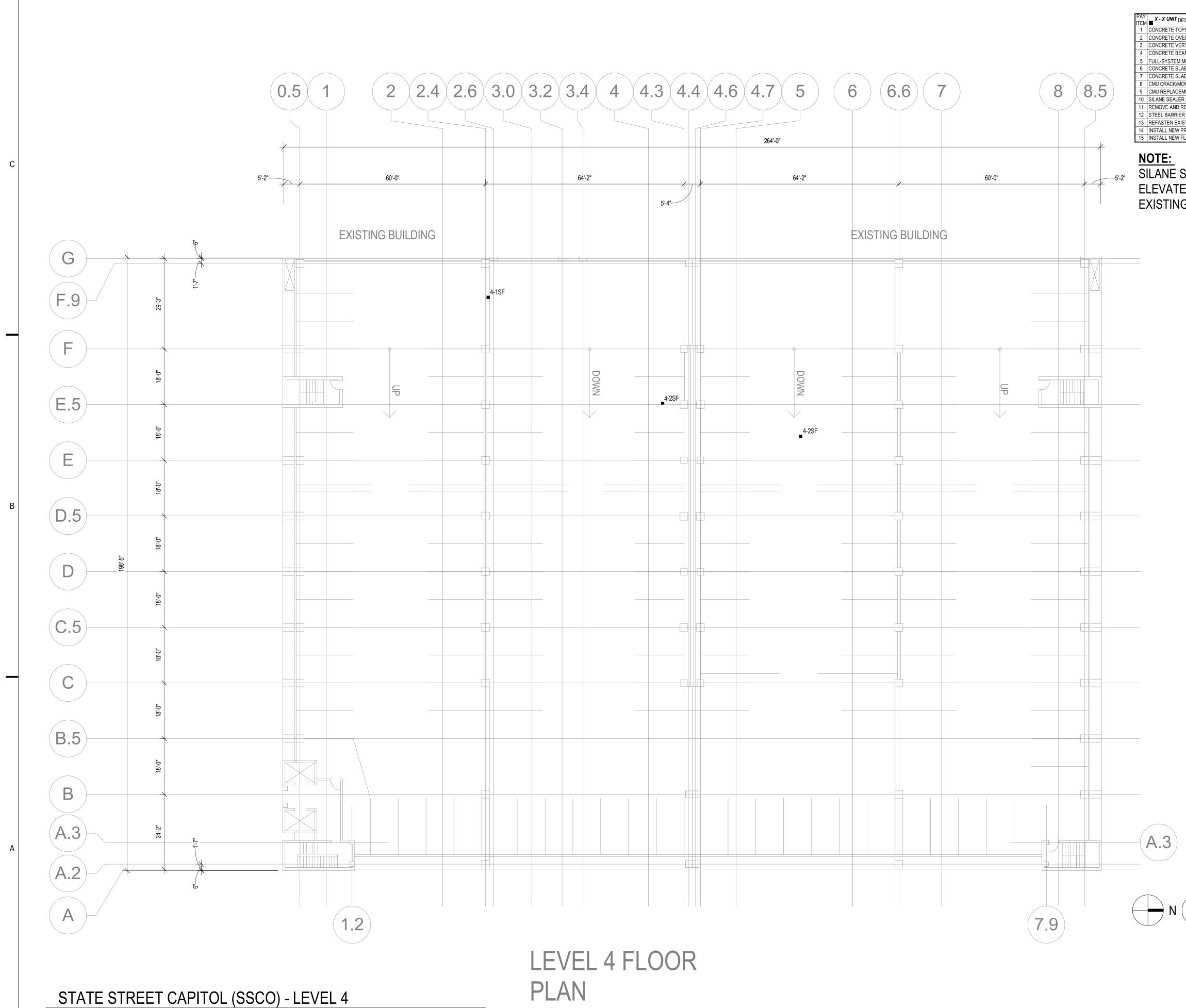
SHEET TITLE: STATE STREET CAPITOL LEVEL 3

PLAN

SC-S103







12/6/2023 1:50:28 PM

1/16" = 1'-0"

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ESCRIPTION	DETAIL REFERENCE(S)
PSIDE SURFACE SPALL REPAIR	B4 / S501
ERHEAD SURFACE SPALL REPAIR	C4 / S501
RTICAL SURFACE REPAIR	A3/S501 A4/S501
AM SPALL REPAIR	B3/S501
MEMBRANE INSTALLATION OR REPLACEMENT	N/A
AB CRACK REPAIR: ROUT AND SEAL	B2/S501
AB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
ORTAR JOINT REPAIR	N/A
MENT	N/A
R APPLICATION (SSCO)	N/A
REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
R REPAIRS (CSN)	B1 / S501
ISTING STAIR TREADS/COVER PLATES	N/A
PRECAST WALL/PANEL CONNECTION	SEE PLAN
FLOOR DRAINS	A5 / P001

SILANE SEALER TO BE APPLIED TO ALL ELEVATED STRUCTURAL SLABS WITHOUT EXISTING TRAFFIC-BEARING MEMBRANE.



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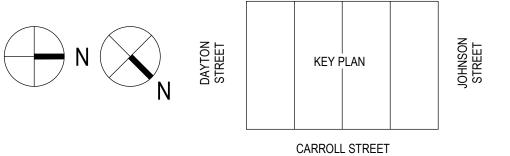
PROJECT INFORMATION: PROJECT NUMBER: 2023-5008.02

DATE:	12/08/2023
DRAWN BY:	AMG
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

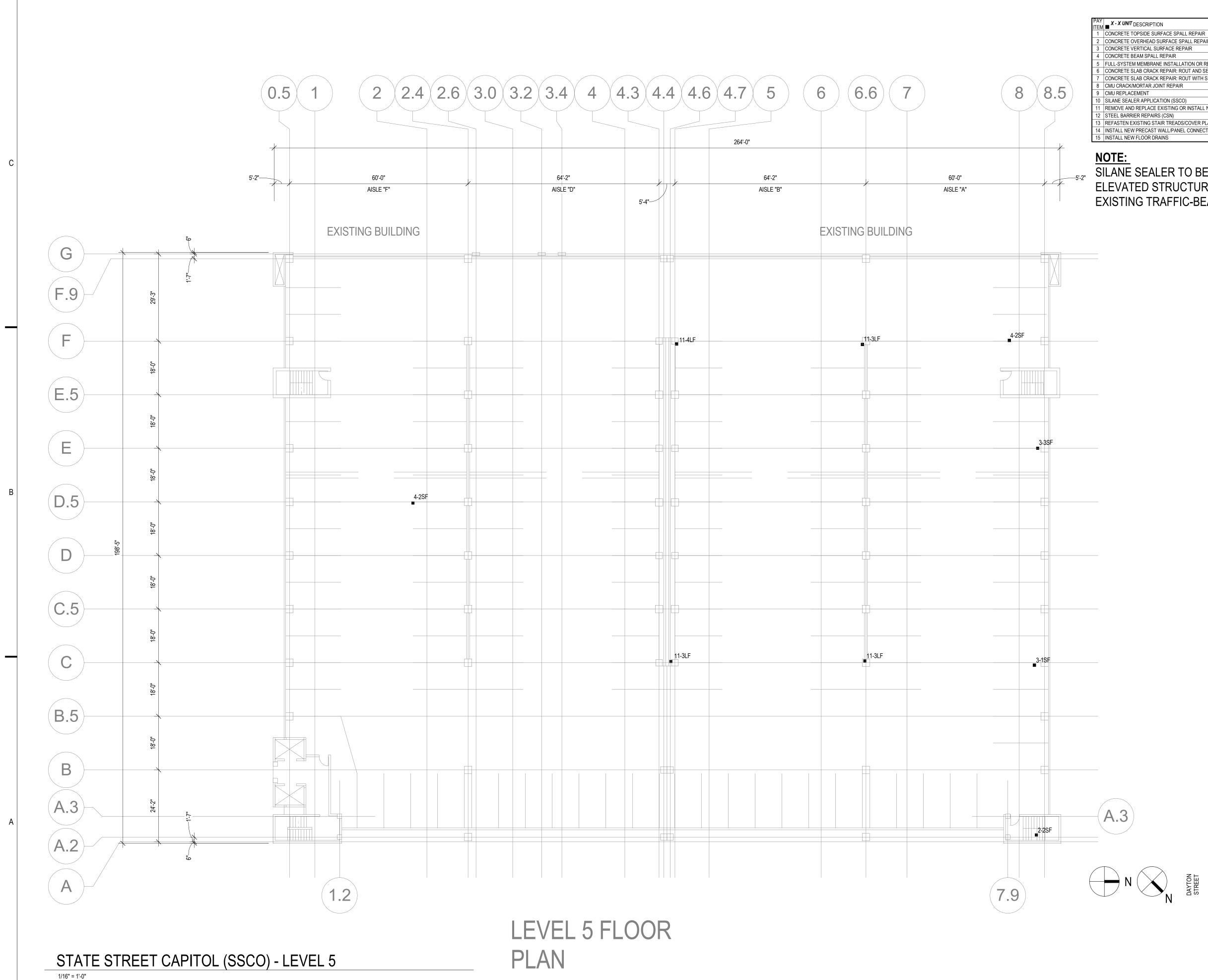
SHEET TITLE: STATE STREET CAPITOL LEVEL 4 PLAN

SC-S104

SHEET NUMBER:



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12/6/2023 1:50:29 PM

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ESCRIPTION	DETAIL REFERENCE(S)
PSIDE SURFACE SPALL REPAIR	B4 / S501
ERHEAD SURFACE SPALL REPAIR	C4 / S501
RTICAL SURFACE REPAIR	A3/S501 A4/S501
AM SPALL REPAIR	B3/S501
MEMBRANE INSTALLATION OR REPLACEMENT	N/A
AB CRACK REPAIR: ROUT AND SEAL	B2/S501
AB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
ORTAR JOINT REPAIR	N/A
MENT	N/A
R APPLICATION (SSCO)	N/A
REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
R REPAIRS (CSN)	B1 / S501
ISTING STAIR TREADS/COVER PLATES	N/A
PRECAST WALL/PANEL CONNECTION	SEE PLAN
FLOOR DRAINS	A5 / P001

SILANE SEALER TO BE APPLIED TO ALL ELEVATED STRUCTURAL SLABS WITHOUT EXISTING TRAFFIC-BEARING MEMBRANE.



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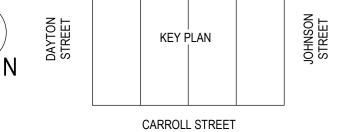
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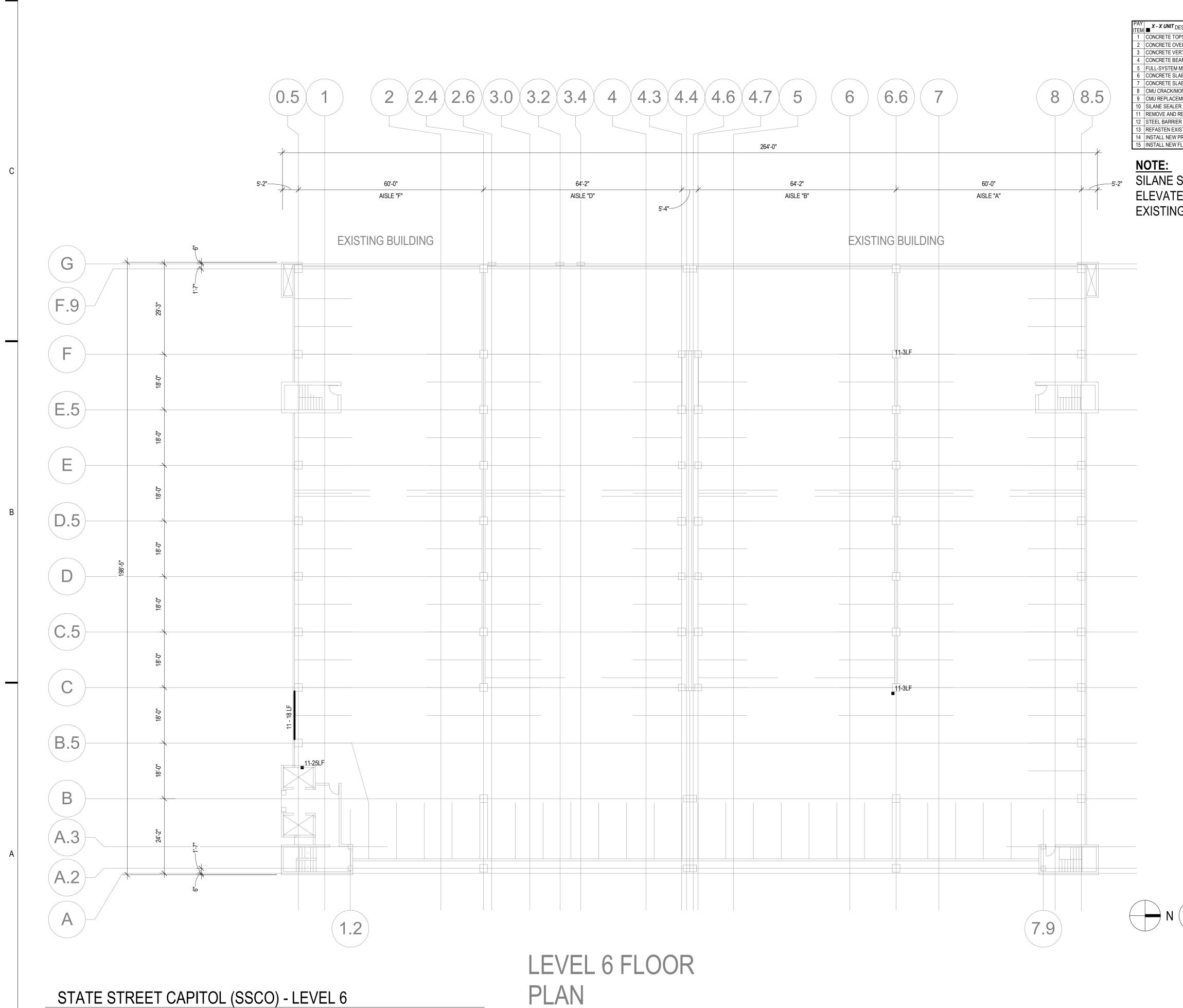
DATE:	12/08/2023
DRAWN BY:	AMG
CHECKED BY:	AMG
APPROVED BY:	DFW
SCALE:	AS NOTED

SHEET TITLE: STATE STREET CAPITOL LEVEL 5 PLAN

SC-S105







12/6/2023 1:50:29 PM

1/16" = 1'-0"

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ESCRIPTION	DETAIL REFERENCE(S)
PSIDE SURFACE SPALL REPAIR	B4 / S501
ERHEAD SURFACE SPALL REPAIR	C4 / S501
RTICAL SURFACE REPAIR	A3/S501 A4/S501
AM SPALL REPAIR	B3/S501
MEMBRANE INSTALLATION OR REPLACEMENT	N/A
AB CRACK REPAIR: ROUT AND SEAL	B2/S501
AB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
ORTAR JOINT REPAIR	N/A
MENT	N/A
R APPLICATION (SSCO)	N/A
REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
R REPAIRS (CSN)	B1 / S501
ISTING STAIR TREADS/COVER PLATES	N/A
PRECAST WALL/PANEL CONNECTION	SEE PLAN
FLOOR DRAINS	A5 / P001

ELEVATED STRUCTURAL SLABS WITHOUT EXISTING TRAFFIC-BEARING MEMBRANE.



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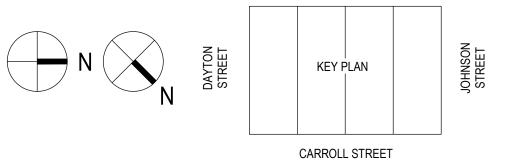
PROJECT INFORMATION: PROJECT NUMBER: 2023-5008.02

DATE:	12/08/2023
DRAWN BY:	AMG
CHECKED BY:	AMG
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SCALE:	AS NOTED

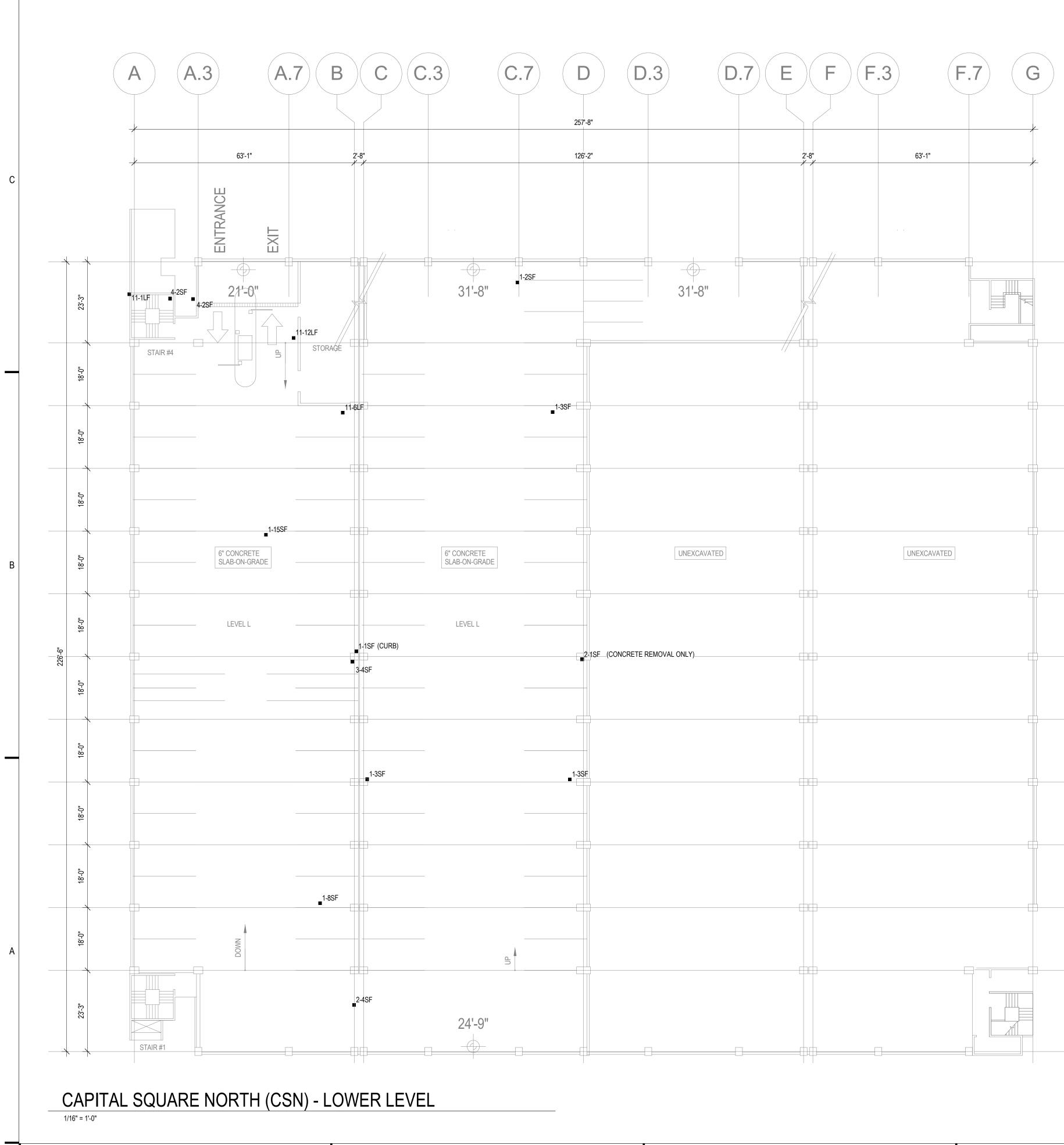
SHEET TITLE: STATE STREET CAPITOL LEVEL 6 PLAN

SC-S106

SHEET NUMBER:



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:50:29 PM 12/6/2023 1:

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AY EM 2 CONCRETE OVERH 3 CONCRETE VERTIO 4 CONCRETE BEAM 5 FULL-SYSTEM MEM6 CONCRETE SLAB C7 CONCRETE SLAB C 8 CMU CRACK/MORT/ 9 CMU REPLACEMEN
 Image: Second Rep Lacebra

 10
 SILANE SEALER AP

 11
 REMOVE AND REPL

 12
 STEEL BARRIER RE
 3 REFASTEN EXISTIN 14 INSTALL NEW PREC

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N TRUE NORTH N PLAN NORTH

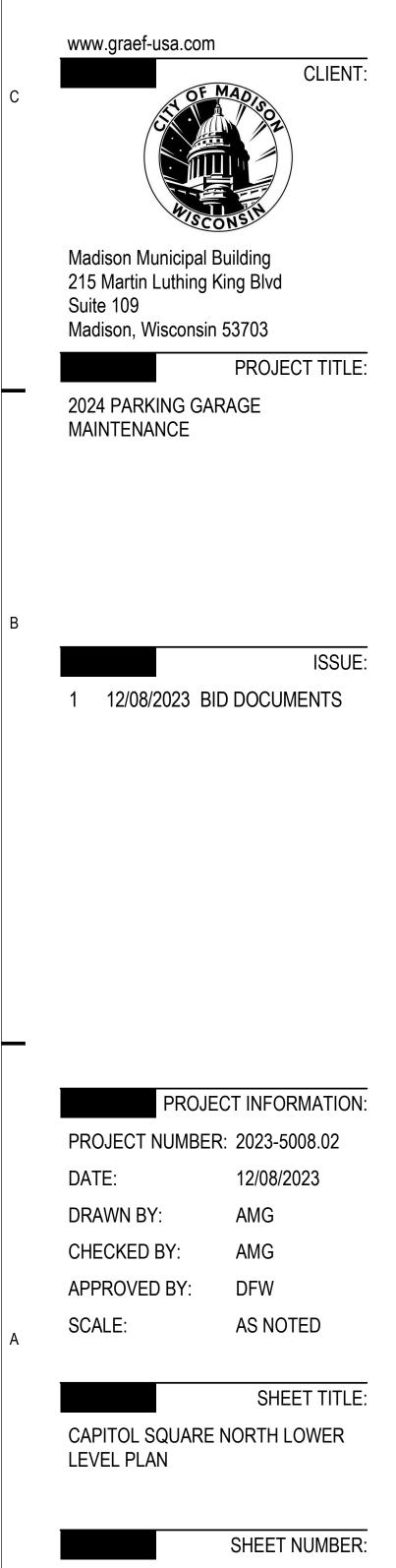
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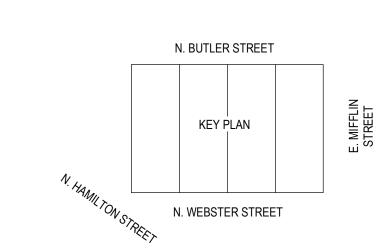
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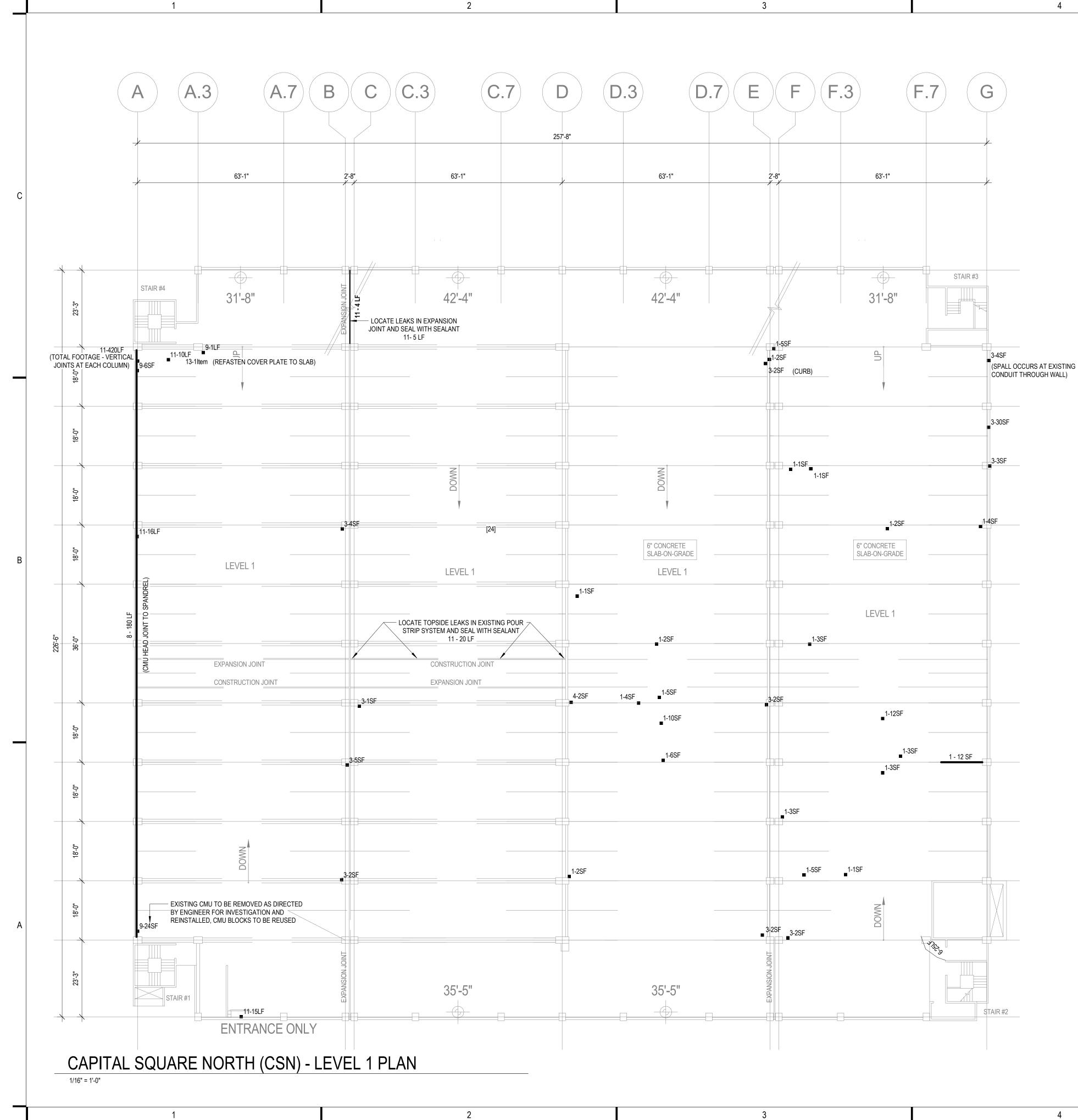
PAY	V VINIT	
ITEM	■ X - X UNIT DESCRIPTION	DETAIL REFERENCE(S)
1	CONCRETE TOPSIDE SURFACE SPALL REPAIR	B4 / S501
2	CONCRETE OVERHEAD SURFACE SPALL REPAIR	C4 / S501
3	CONCRETE VERTICAL SURFACE REPAIR	A3/S501 A4/S501
4	CONCRETE BEAM SPALL REPAIR	B3 / S501
5	FULL-SYSTEM MEMBRANE INSTALLATION OR REPLACEMENT	N/A
6	CONCRETE SLAB CRACK REPAIR: ROUT AND SEAL	B2/S501
7	CONCRETE SLAB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
8	CMU CRACK/MORTAR JOINT REPAIR	N/A
9	CMU REPLACEMENT	N/A
10	SILANE SEALER APPLICATION (SSCO)	N/A
11	REMOVE AND REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
12	STEEL BARRIER REPAIRS (CSN)	B1/S501
13	REFASTEN EXISTING STAIR TREADS/COVER PLATES	N/A
14	INSTALL NEW PRECAST WALL/PANEL CONNECTION	SEE PLAN
15	INSTALL NEW FLOOR DRAINS	A5 / P001



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:50:29 PM 12/6/2023 1

AY EM ■ X - X UNIT DESC 2 CONCRETE OVERH 3 CONCRETE VERTIO 4 CONCRETE BEAM 5 FULL-SYSTEM MEM 6 CONCRETE SLAB C 7 CONCRETE SLAB C 8 CMU CRACK/MORT/ 9 CMU REPLACEMEN
 Image: Second Rep Lacebra

 10
 SILANE SEALER AP

 11
 REMOVE AND REPL

 12
 STEEL BARRIER RE
 3 REFASTEN EXISTIN 14 INSTALL NEW PREC 15 INSTALL NEW FLOO

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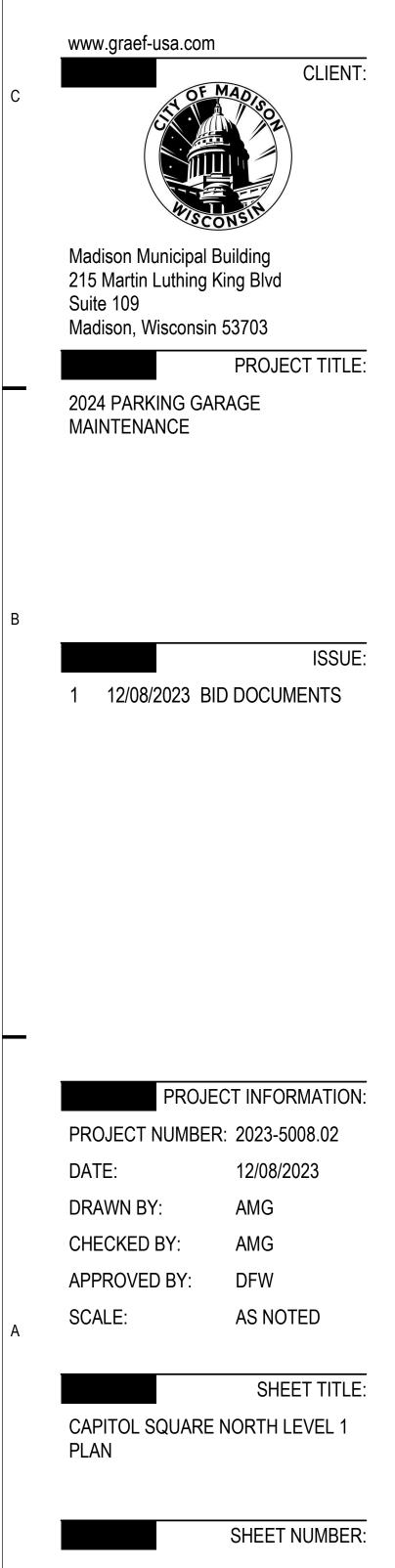
N TRUE NORTH N PLAN NORTH

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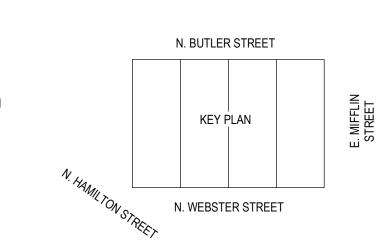
SCRIPTION	DETAIL REFERENCE(S)
SIDE SURFACE SPALL REPAIR	B4 / S501
RHEAD SURFACE SPALL REPAIR	C4 / S501
TICAL SURFACE REPAIR	A3/S501 A4/S501
M SPALL REPAIR	B3 / S501
EMBRANE INSTALLATION OR REPLACEMENT	N/A
3 CRACK REPAIR: ROUT AND SEAL	B2/S501
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
RTAR JOINT REPAIR	N/A
ENT	N/A
APPLICATION (SSCO)	N/A
PLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
REPAIRS (CSN)	B1/S501
TING STAIR TREADS/COVER PLATES	N/A
RECAST WALL/PANEL CONNECTION	SEE PLAN
OOR DRAINS	A5 / P001

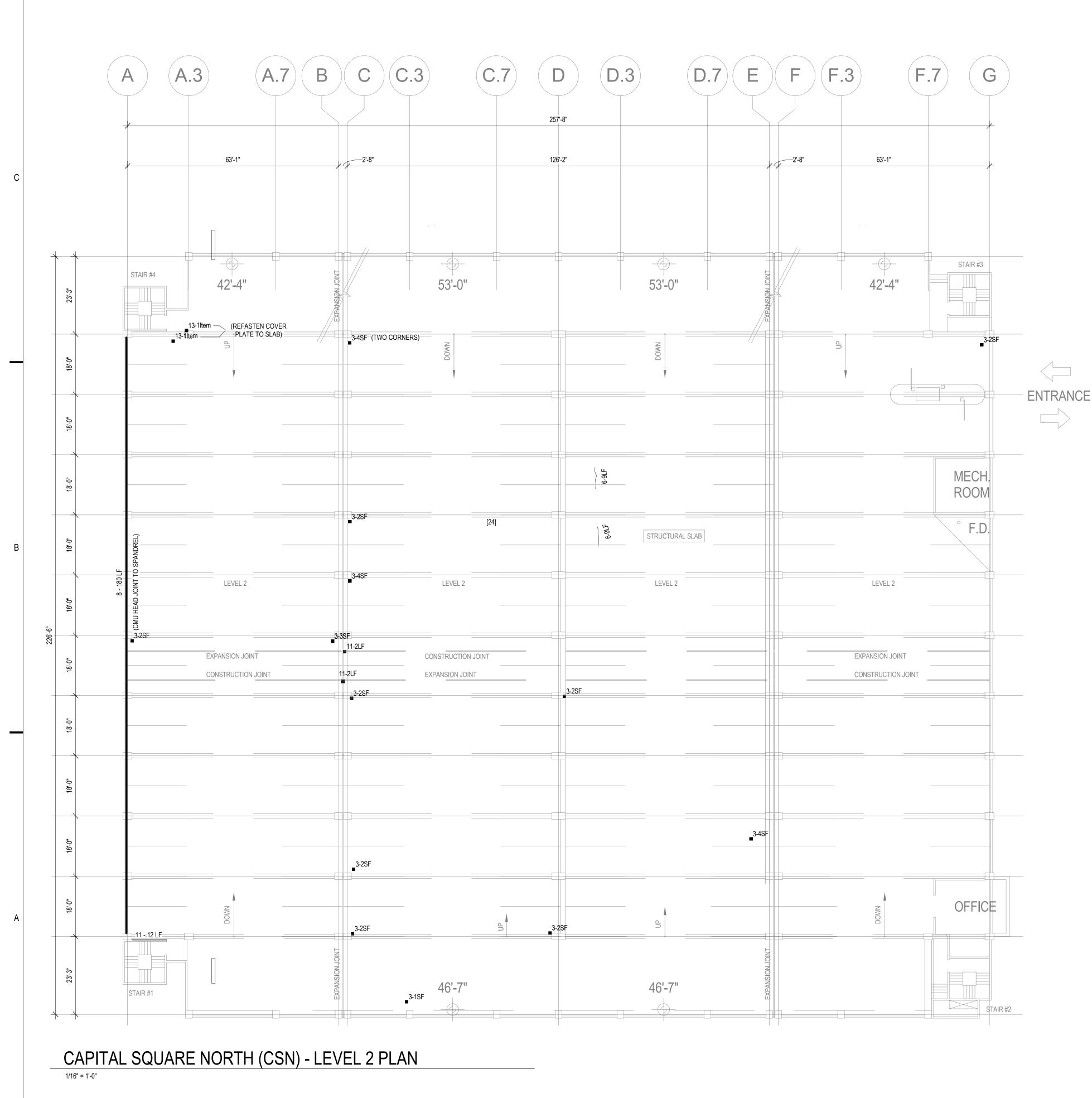


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CN-S101





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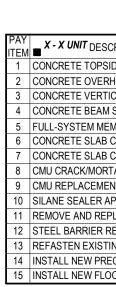
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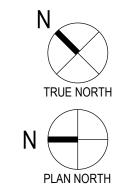
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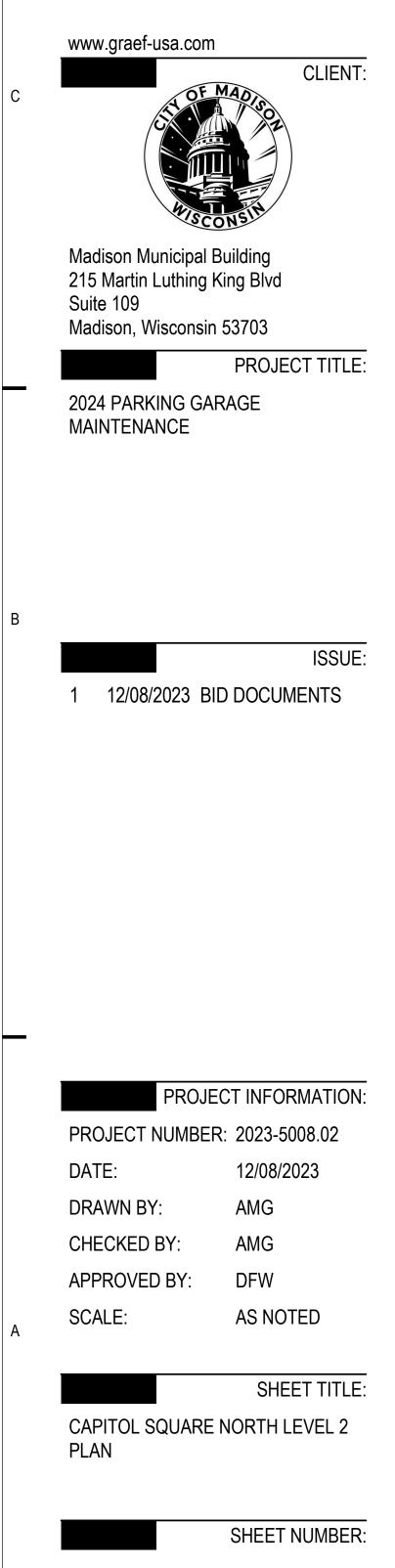
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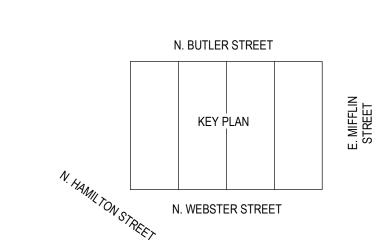
SCRIPTION	DETAIL REFERENCE(S)
SIDE SURFACE SPALL REPAIR	B4 / S501
RHEAD SURFACE SPALL REPAIR	C4 / S501
FICAL SURFACE REPAIR	A3/S501 A4/S501
/I SPALL REPAIR	B3/S501
EMBRANE INSTALLATION OR REPLACEMENT	N/A
3 CRACK REPAIR: ROUT AND SEAL	B2/S501
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
RTAR JOINT REPAIR	N/A
ENT	N/A
APPLICATION (SSCO)	N/A
PLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
REPAIRS (CSN)	B1/S501
TING STAIR TREADS/COVER PLATES	N/A
ECAST WALL/PANEL CONNECTION	SEE PLAN
OOR DRAINS	A5 / P001



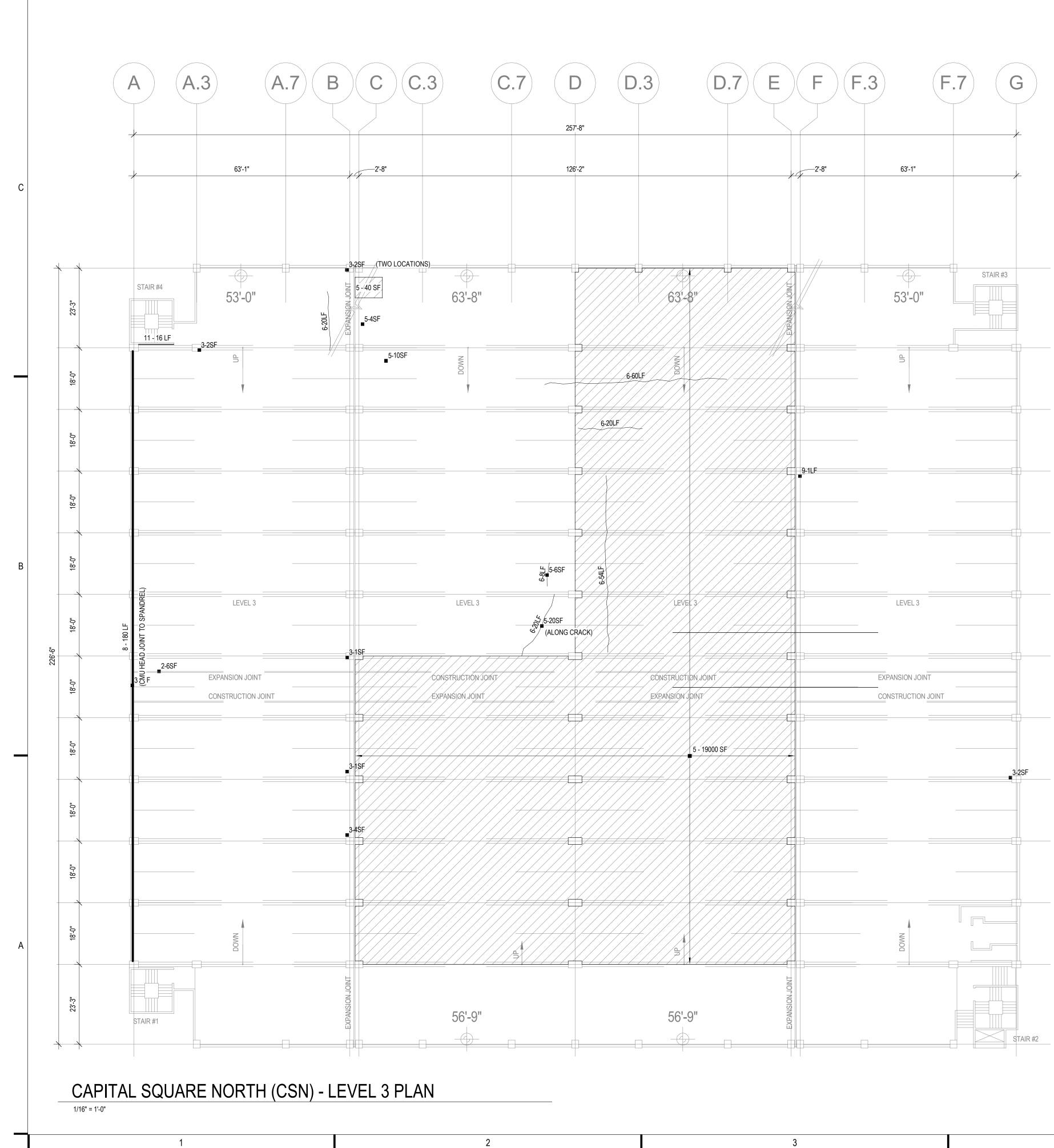
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CN-S102



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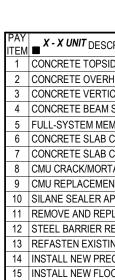
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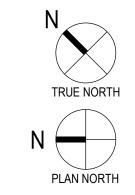
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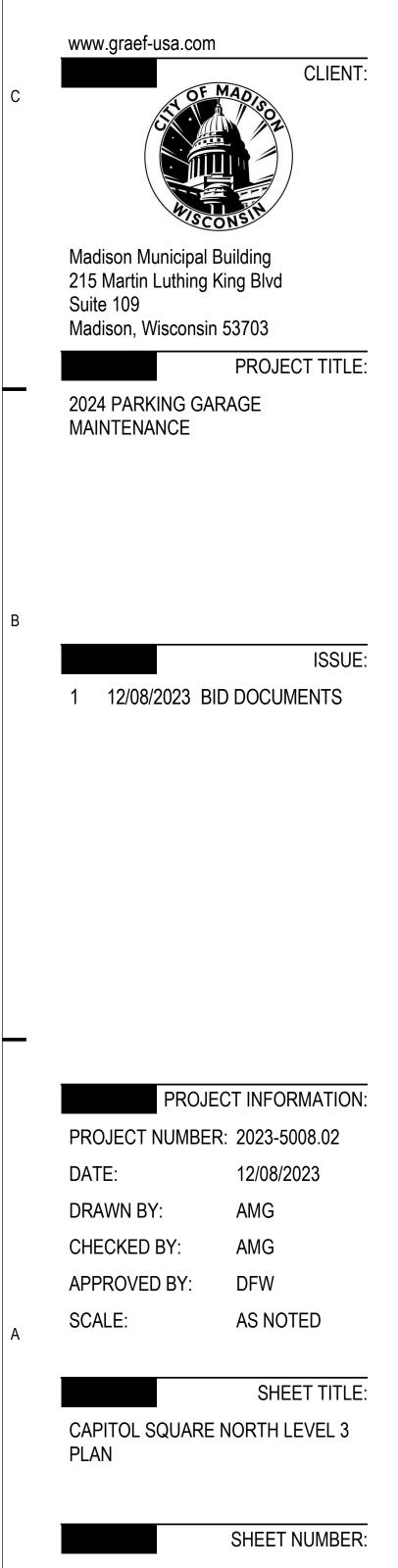
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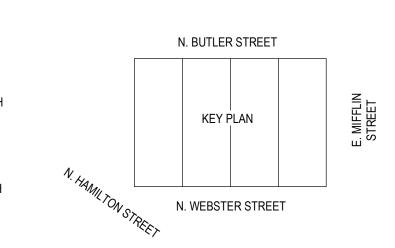
SCRIPTION	DETAIL REFERENCE(S)
SIDE SURFACE SPALL REPAIR	B4 / S501
RHEAD SURFACE SPALL REPAIR	C4 / S501
TICAL SURFACE REPAIR	A3/S501 A4/S501
M SPALL REPAIR	B3 / S501
EMBRANE INSTALLATION OR REPLACEMENT	N/A
3 CRACK REPAIR: ROUT AND SEAL	B2/S501
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
RTAR JOINT REPAIR	N/A
ENT	N/A
APPLICATION (SSCO)	N/A
PLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
REPAIRS (CSN)	B1 / S501
TING STAIR TREADS/COVER PLATES	N/A
RECAST WALL/PANEL CONNECTION	SEE PLAN
OOR DRAINS	A5 / P001



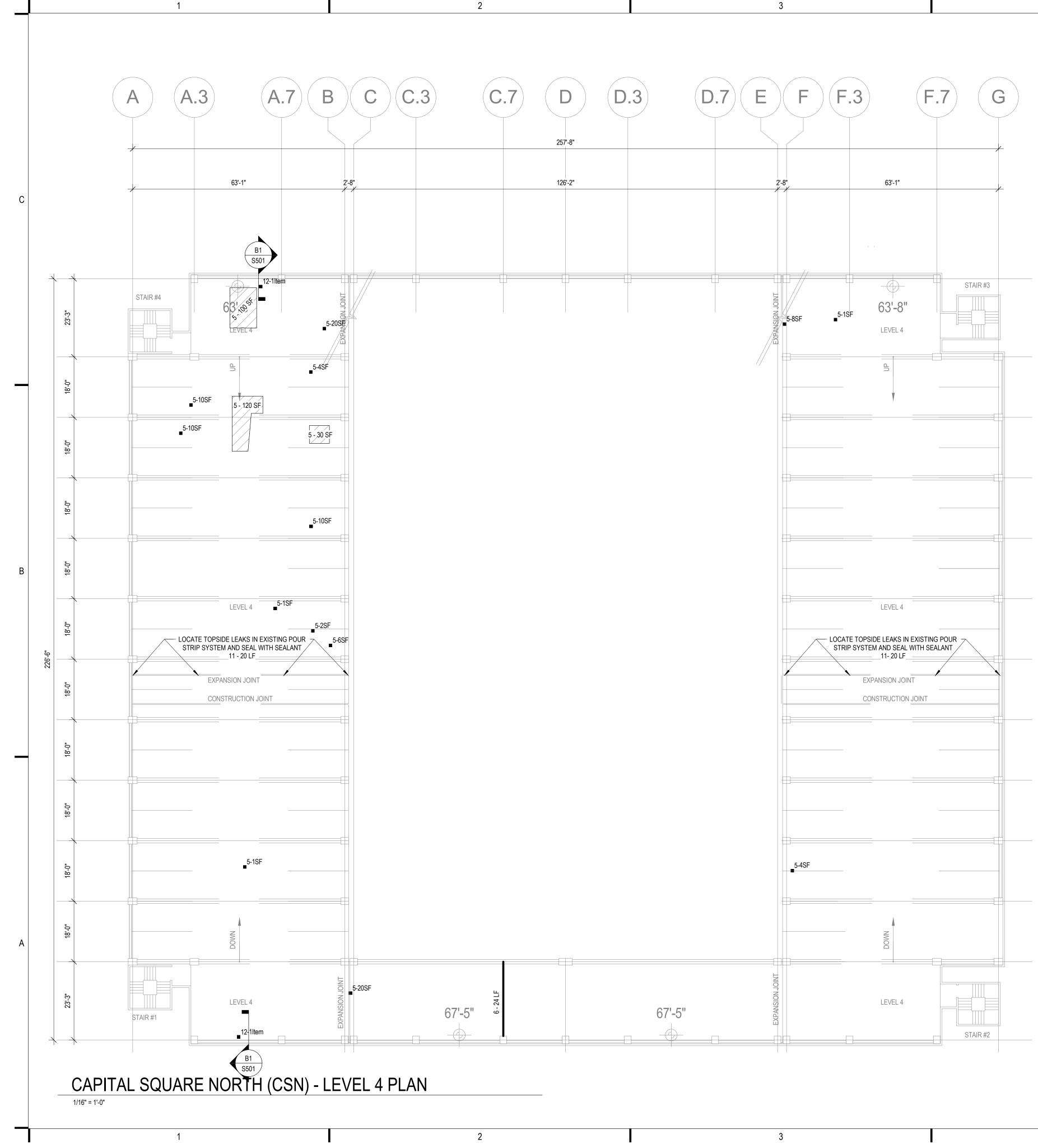
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CN-S103



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 PAY ITEM
 X - X UNIT DESCR

 1
 CONCRETE TOPSID

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 CONCRETE OVERH

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 CONCRETE OVERH

 3
 CONCRETE VERTIC

 4
 CONCRETE VERTIC

 4
 CONCRETE VERTIC

 5
 FULL-SYSTEM MEM

 6
 CONCRETE SLAB C

 7
 CONCRETE SLAB C

 8
 CMU CRACK/MORT/

 9
 CMU REPLACEMEN

 10
 SILANE SEALER AP

 11
 REMOVE AND REPL

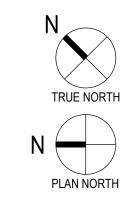
 12
 STEEL BARRIER RE

 13
 REFASTEN EXISTIN

 14
 INSTALL NEW PRECO

 15
 INSTALL NEW FLOC

4



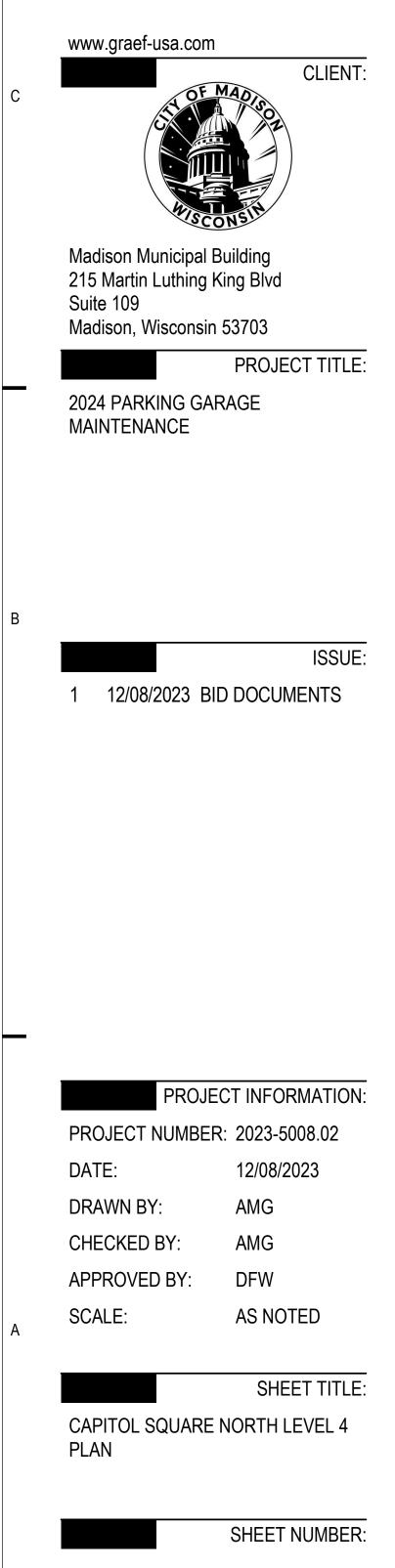
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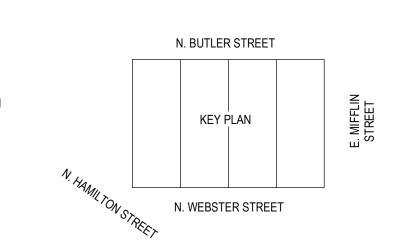
SCRIPTION	DETAIL REFERENCE(S)
SIDE SURFACE SPALL REPAIR	B4 / S501
RHEAD SURFACE SPALL REPAIR	C4 / S501
FICAL SURFACE REPAIR	A3/S501 A4/S501
/I SPALL REPAIR	B3 / S501
EMBRANE INSTALLATION OR REPLACEMENT	N/A
3 CRACK REPAIR: ROUT AND SEAL	B2/S501
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
RTAR JOINT REPAIR	N/A
ENT	N/A
APPLICATION (SSCO)	N/A
PLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
REPAIRS (CSN)	B1 / S501
TING STAIR TREADS/COVER PLATES	N/A
ECAST WALL/PANEL CONNECTION	SEE PLAN
OOR DRAINS	A5 / P001

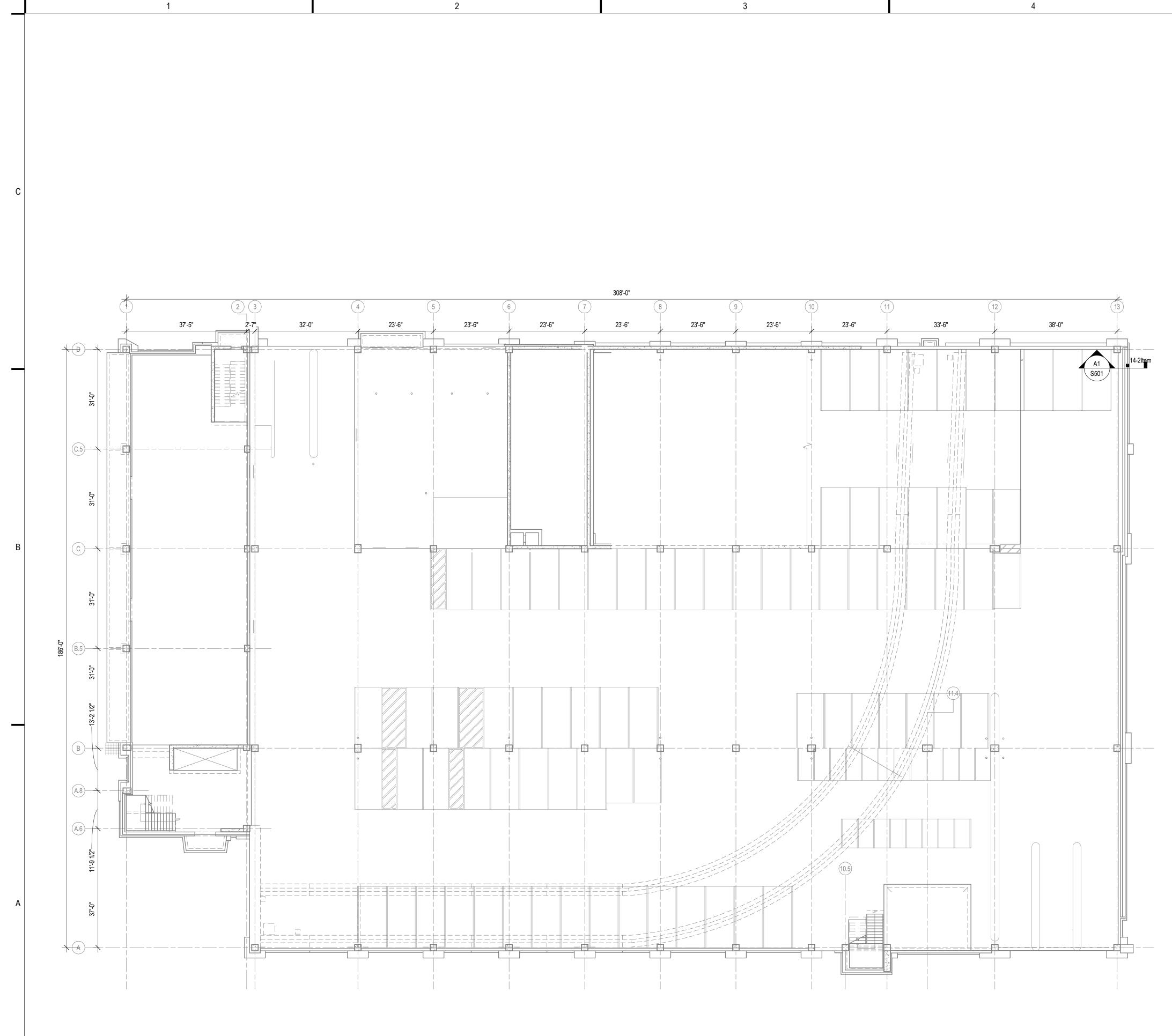


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CN-S104





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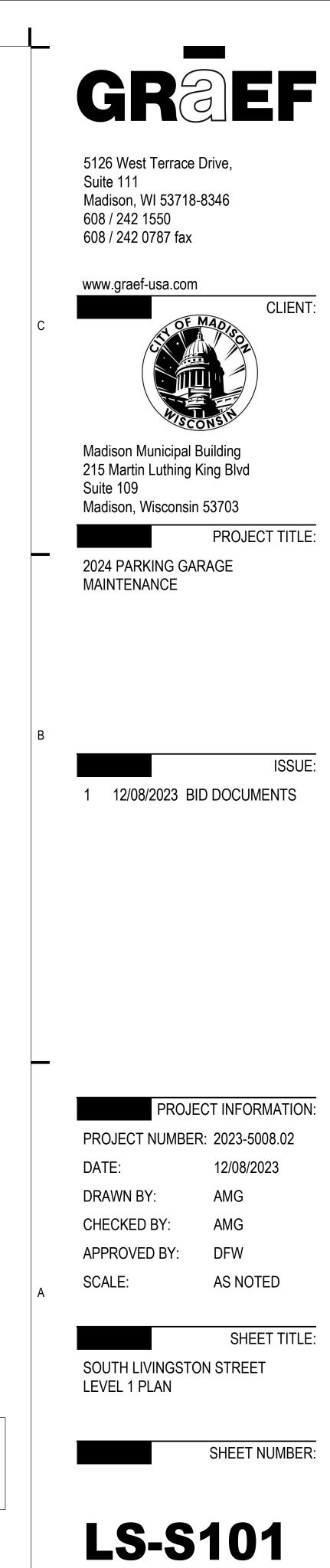
SOUTH LIVINGSTON STREET (SLS) - LEVEL 1

1

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N PLAN NORTH TRUE NORTH

4



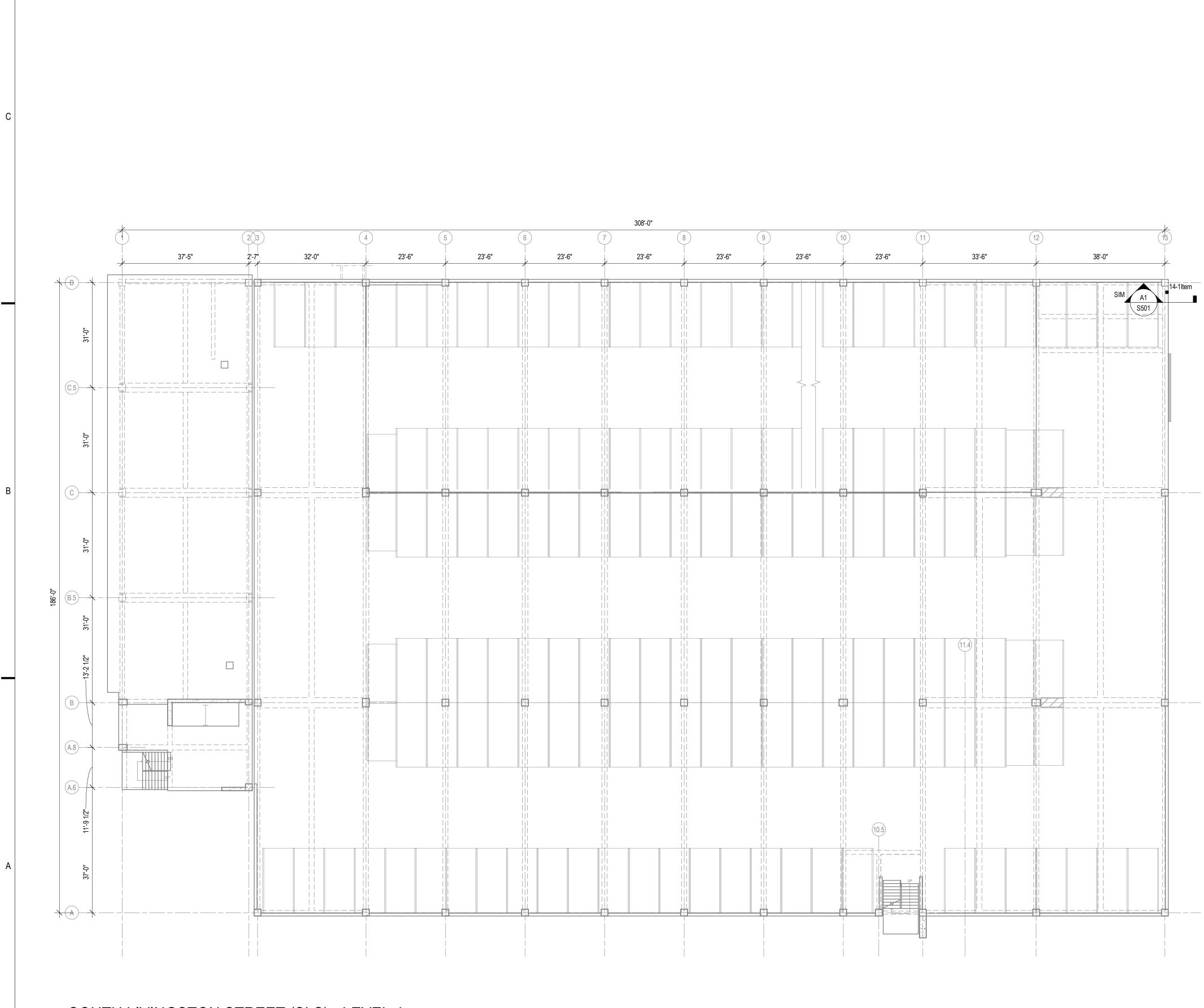
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E. MAIN STREET

KEY PLAN

S. LIVINGSTON STREET



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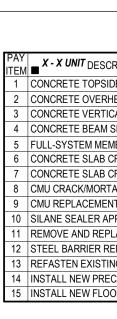
SOUTH LIVINGSTON STREET (SLS) - LEVEL 4

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1

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2



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N PLAN NORTH TRUE NORTH

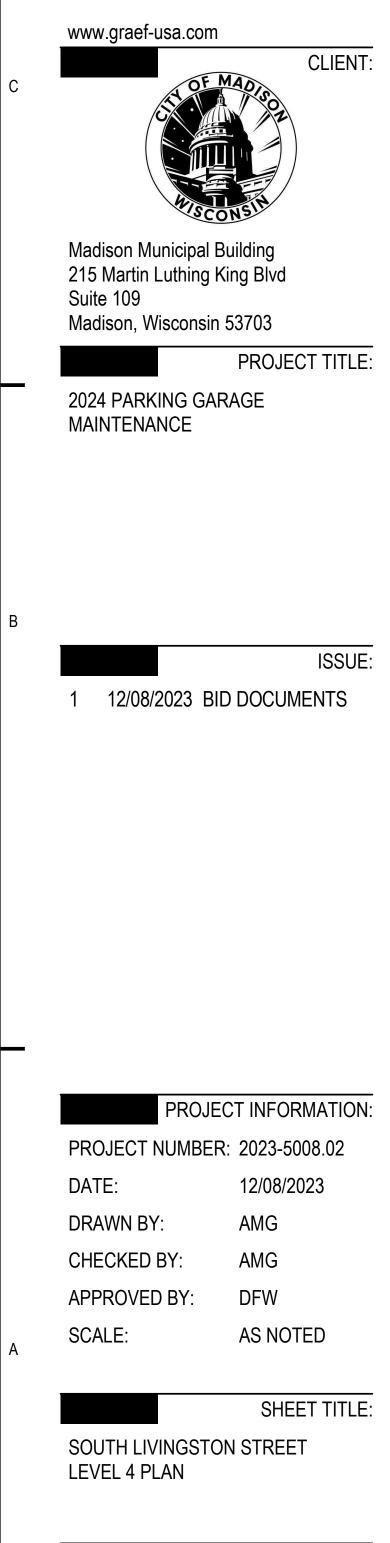
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DETAIL REFERENCE(S)
B4 / S501
C4 / S501
A3/S501 A4/S501
B3/S501
N/A
B2/S501
A2/S501
N/A
N/A
N/A
N/A
B1/S501
N/A
SEE PLAN
A5 / P001



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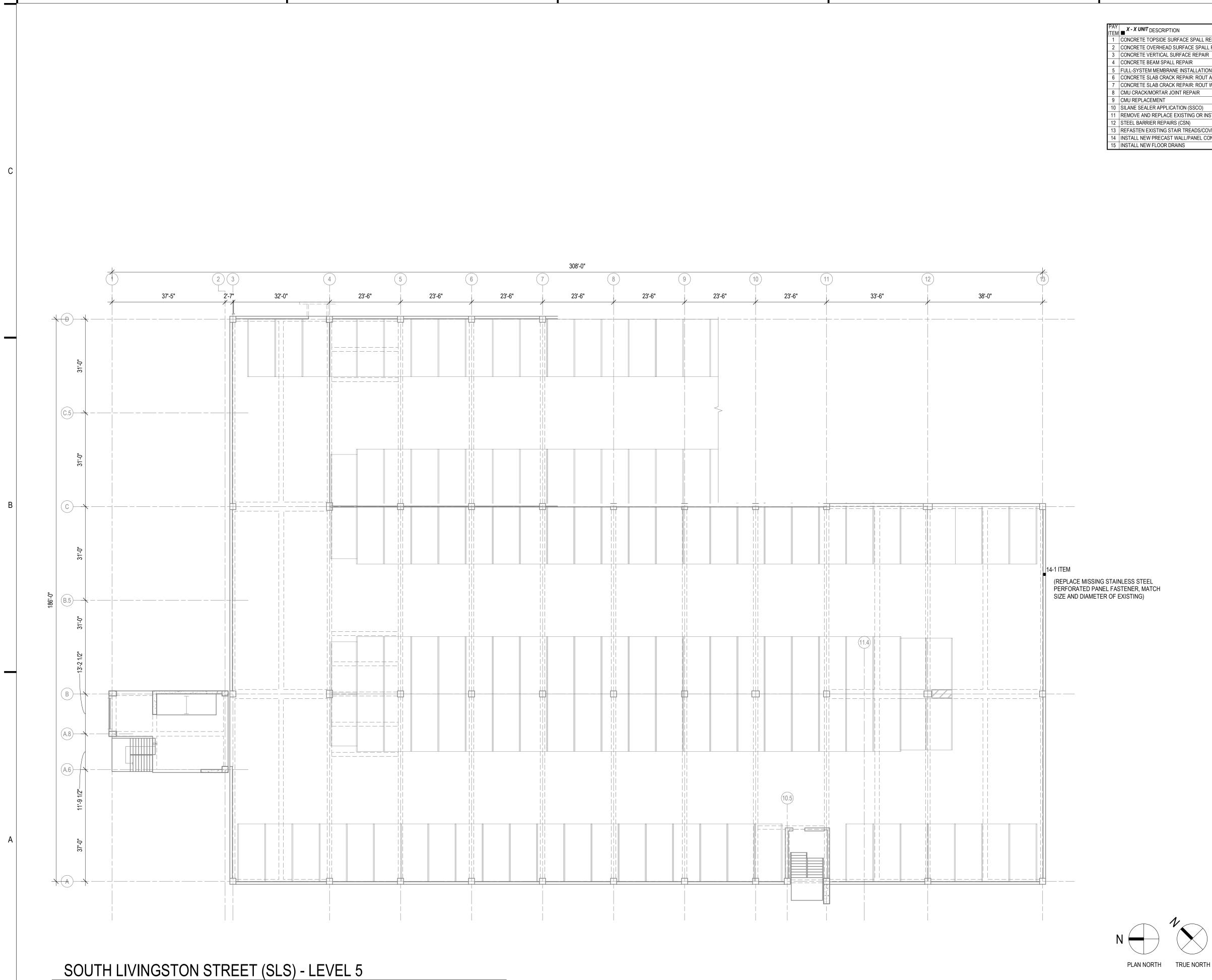
SHEET NUMBER:





E. MAIN STREET

S. LIVINGSTON STREET



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1/16" = 1'-0"

1

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1



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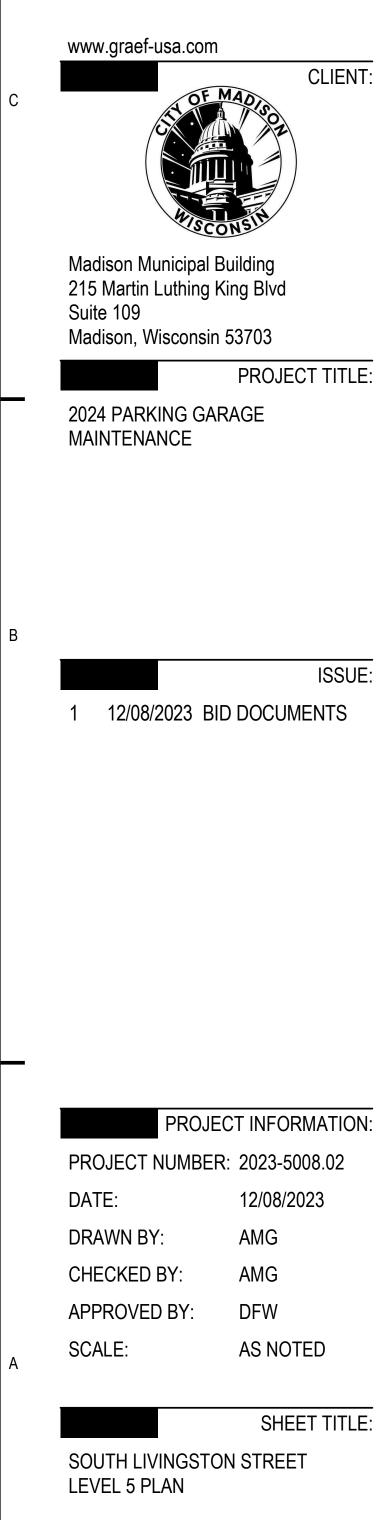
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SCRIPTION	DETAIL REFERENCE(S)
SIDE SURFACE SPALL REPAIR	B4 / S501
RHEAD SURFACE SPALL REPAIR	C4 / S501
TICAL SURFACE REPAIR	A3/S501 A4/S501
M SPALL REPAIR	B3/S501
EMBRANE INSTALLATION OR REPLACEMENT	N/A
3 CRACK REPAIR: ROUT AND SEAL	B2/S501
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
RTAR JOINT REPAIR	N/A
ENT	N/A
APPLICATION (SSCO)	N/A
EPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
REPAIRS (CSN)	B1/S501
TING STAIR TREADS/COVER PLATES	N/A
RECAST WALL/PANEL CONNECTION	SEE PLAN
OOR DRAINS	A5 / P001



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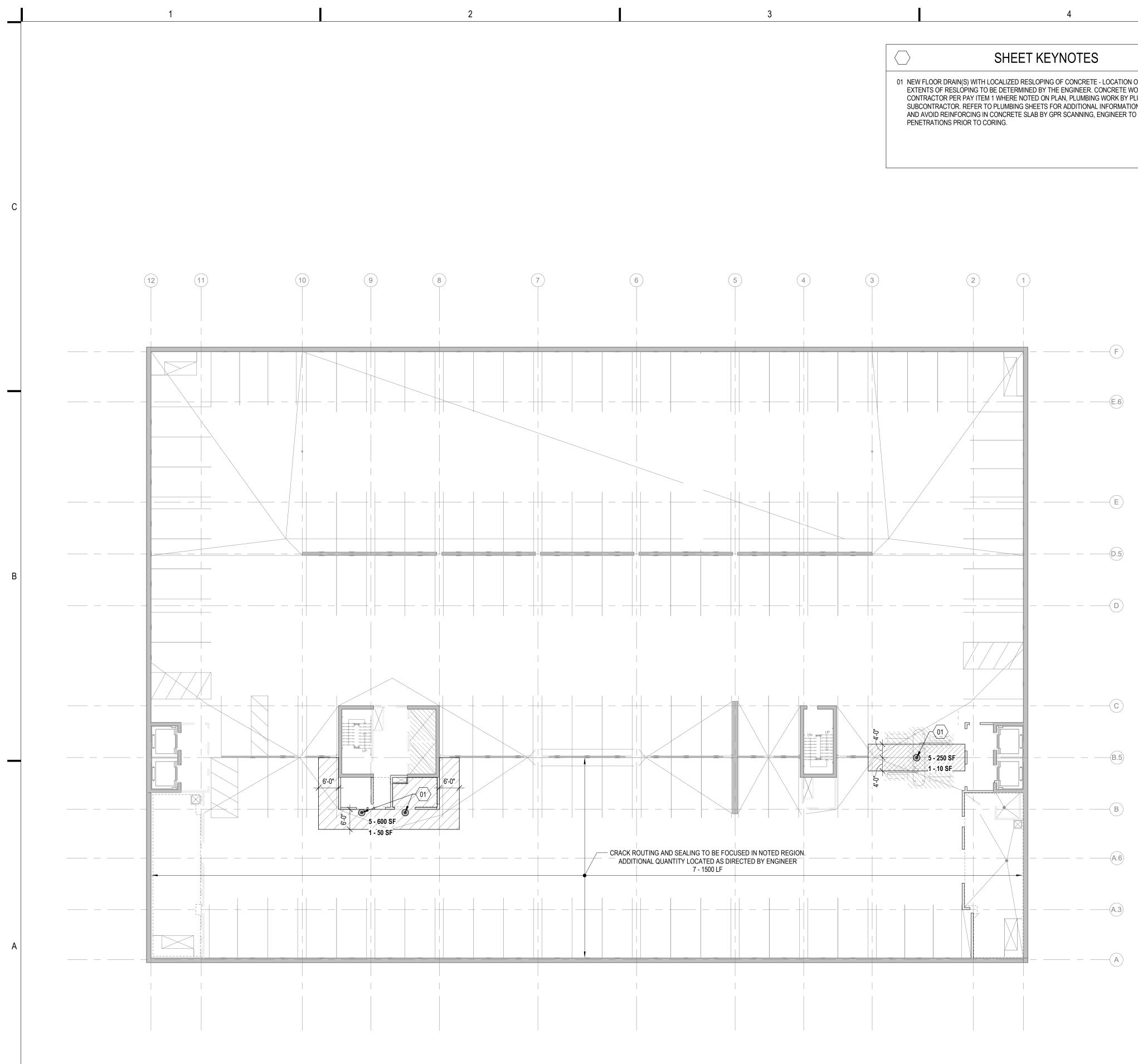




E. MAIN STREET

S. LIVINGSTON STREET

KEY PLAN _____



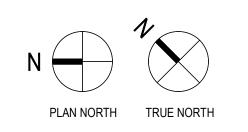
WILSON STREET (WSG) - LOWER LEVEL 2 PLAN

1

1/16" = 1'-0"

12/8/2023 12:24:09 PM

01 NEW FLOOR DRAIN(S) WITH LOCALIZED RESLOPING OF CONCRETE - LOCATION OF DRAIN(S) AND EXTENTS OF RESLOPING TO BE DETERMINED BY THE ENGINEER. CONCRETE WORK BY REPAIR CONTRACTOR PER PAY ITEM 1 WHERE NOTED ON PLAN, PLUMBING WORK BY PLUMBING SUBCONTRACTOR. REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION. LOCATE EXISTING AND AVOID REINFORCING IN CONCRETE SLAB BY GPR SCANNING, ENGINEER TO APPROVE ALL



3

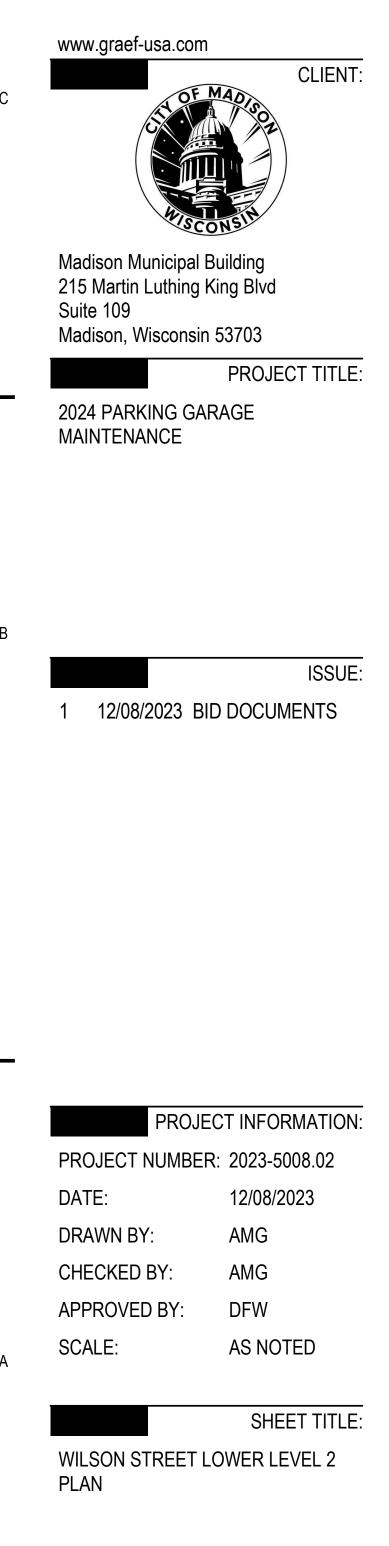
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PAY		
ITEM	■ X - X UNIT DESCRIPTION	DETAIL REFERENCE(S)
1	CONCRETE TOPSIDE SURFACE SPALL REPAIR	B4 / S501
2	CONCRETE OVERHEAD SURFACE SPALL REPAIR	C4 / S501
3	CONCRETE VERTICAL SURFACE REPAIR	A3/S501 A4/S501
4	CONCRETE BEAM SPALL REPAIR	B3 / S501
5	FULL-SYSTEM MEMBRANE INSTALLATION OR REPLACEMENT	N/A
6	CONCRETE SLAB CRACK REPAIR: ROUT AND SEAL	B2/S501
7	CONCRETE SLAB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
8	CMU CRACK/MORTAR JOINT REPAIR	N/A
9	CMU REPLACEMENT	N/A
10	SILANE SEALER APPLICATION (SSCO)	N/A
11	REMOVE AND REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
12	STEEL BARRIER REPAIRS (CSN)	B1 / S501
13	REFASTEN EXISTING STAIR TREADS/COVER PLATES	N/A
14	INSTALL NEW PRECAST WALL/PANEL CONNECTION	SEE PLAN
15	INSTALL NEW FLOOR DRAINS	A5 / P001



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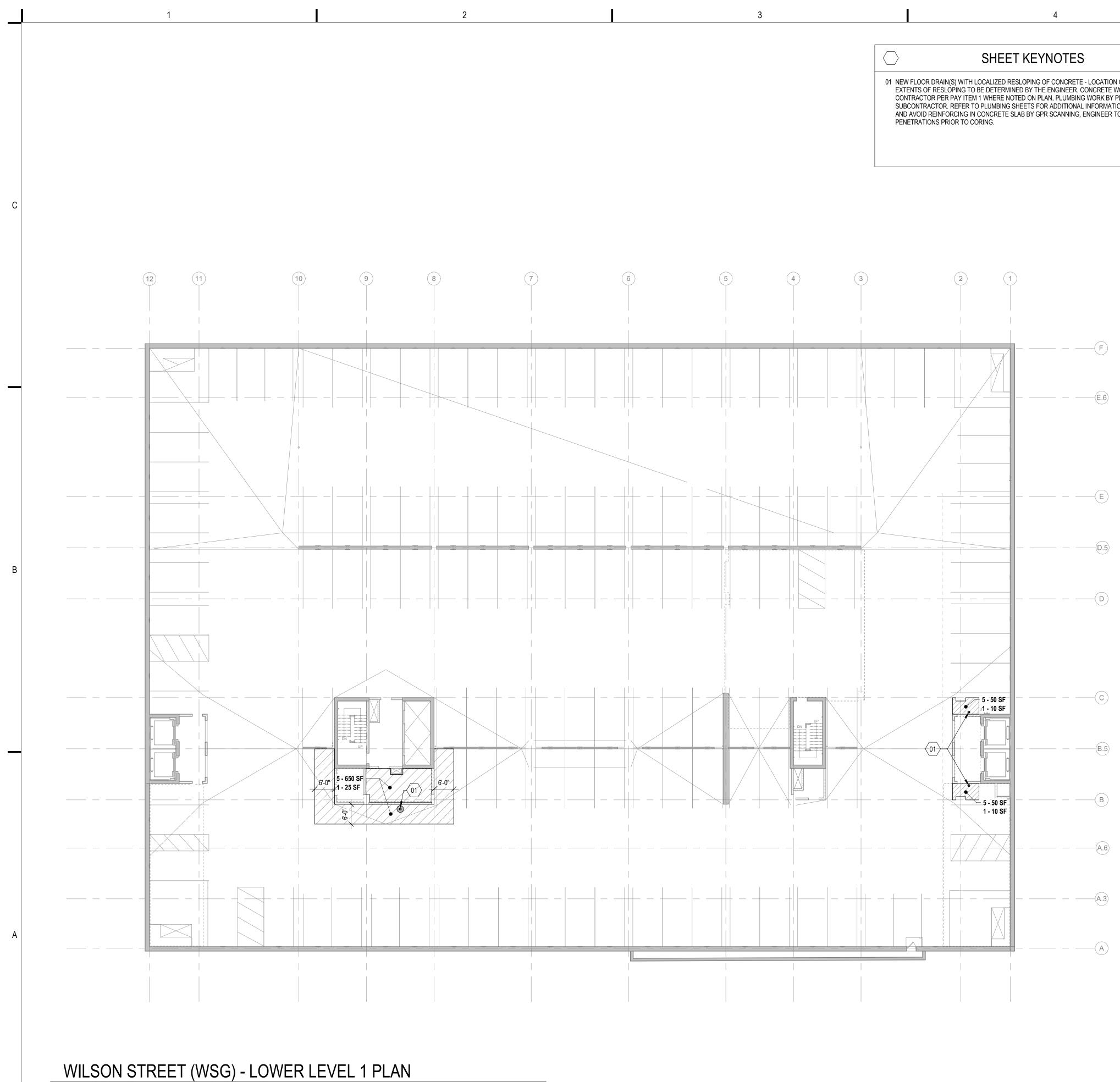


SHEET NUMBER:

WS-S098

E. WILSON STREET

S. PINCKNEY STREET



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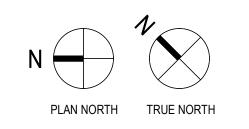
1/16" = 1'-0"

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01 NEW FLOOR DRAIN(S) WITH LOCALIZED RESLOPING OF CONCRETE - LOCATION OF DRAIN(S) AND EXTENTS OF RESLOPING TO BE DETERMINED BY THE ENGINEER. CONCRETE WORK BY REPAIR CONTRACTOR PER PAY ITEM 1 WHERE NOTED ON PLAN, PLUMBING WORK BY PLUMBING SUBCONTRACTOR. REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION. LOCATE EXISTING AND AVOID REINFORCING IN CONCRETE SLAB BY GPR SCANNING, ENGINEER TO APPROVE ALL



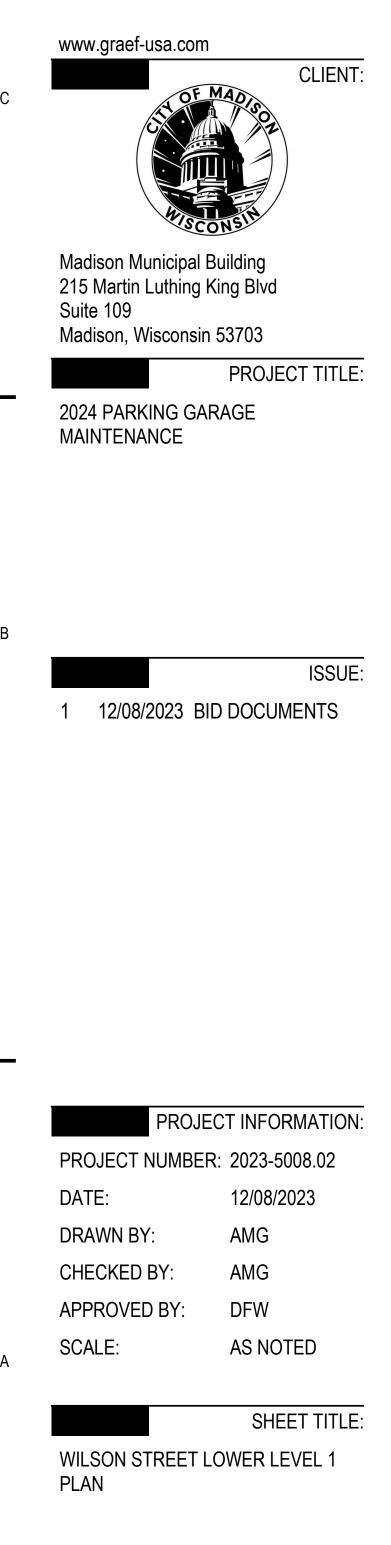
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PAY		
ITEM	■ X - X UNIT DESCRIPTION	DETAIL REFERENCE(S)
1	CONCRETE TOPSIDE SURFACE SPALL REPAIR	B4 / S501
2	CONCRETE OVERHEAD SURFACE SPALL REPAIR	C4 / S501
3	CONCRETE VERTICAL SURFACE REPAIR	A3/S501 A4/S501
4	CONCRETE BEAM SPALL REPAIR	B3 / S501
5	FULL-SYSTEM MEMBRANE INSTALLATION OR REPLACEMENT	N/A
6	CONCRETE SLAB CRACK REPAIR: ROUT AND SEAL	B2/S501
7	CONCRETE SLAB CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
8	CMU CRACK/MORTAR JOINT REPAIR	N/A
9	CMU REPLACEMENT	N/A
10	SILANE SEALER APPLICATION (SSCO)	N/A
11	REMOVE AND REPLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
12	STEEL BARRIER REPAIRS (CSN)	B1/S501
13	REFASTEN EXISTING STAIR TREADS/COVER PLATES	N/A
14	INSTALL NEW PRECAST WALL/PANEL CONNECTION	SEE PLAN
15	INSTALL NEW FLOOR DRAINS	A5 / P001



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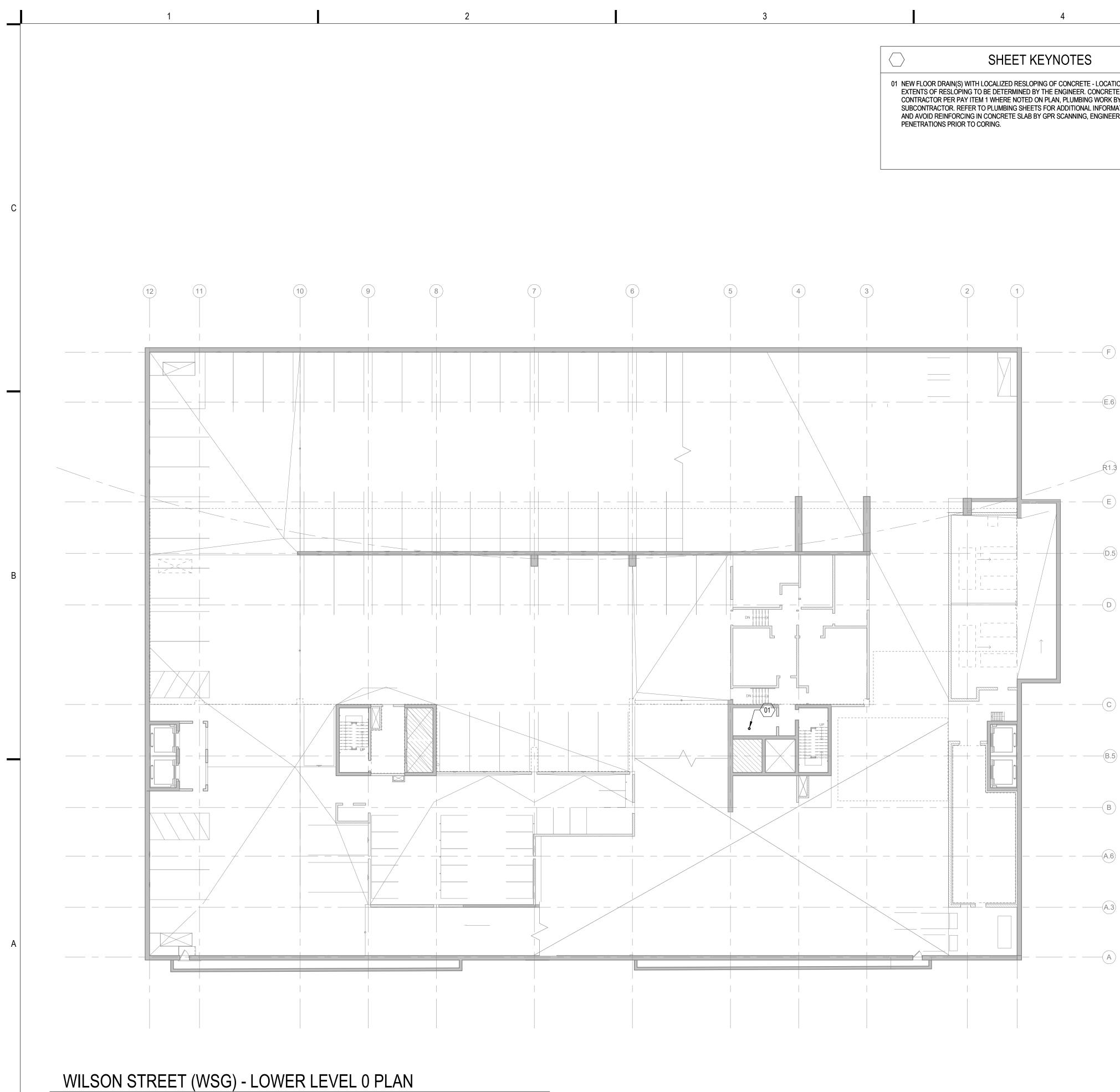
SHEET NUMBER:

WS-S099

E. WILSON STREET

S. PINCKNEY STREET





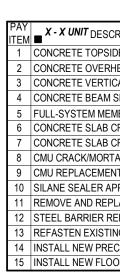
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1/16" = 1'-0"

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01 NEW FLOOR DRAIN(S) WITH LOCALIZED RESLOPING OF CONCRETE - LOCATION OF DRAIN(S) AND EXTENTS OF RESLOPING TO BE DETERMINED BY THE ENGINEER. CONCRETE WORK BY REPAIR CONTRACTOR PER PAY ITEM 1 WHERE NOTED ON PLAN, PLUMBING WORK BY PLUMBING SUBCONTRACTOR. REFER TO PLUMBING SHEETS FOR ADDITIONAL INFORMATION. LOCATE EXISTING AND AVOID REINFORCING IN CONCRETE SLAB BY GPR SCANNING, ENGINEER TO APPROVE ALL



PLAN NORTH TRUE NORTH

4

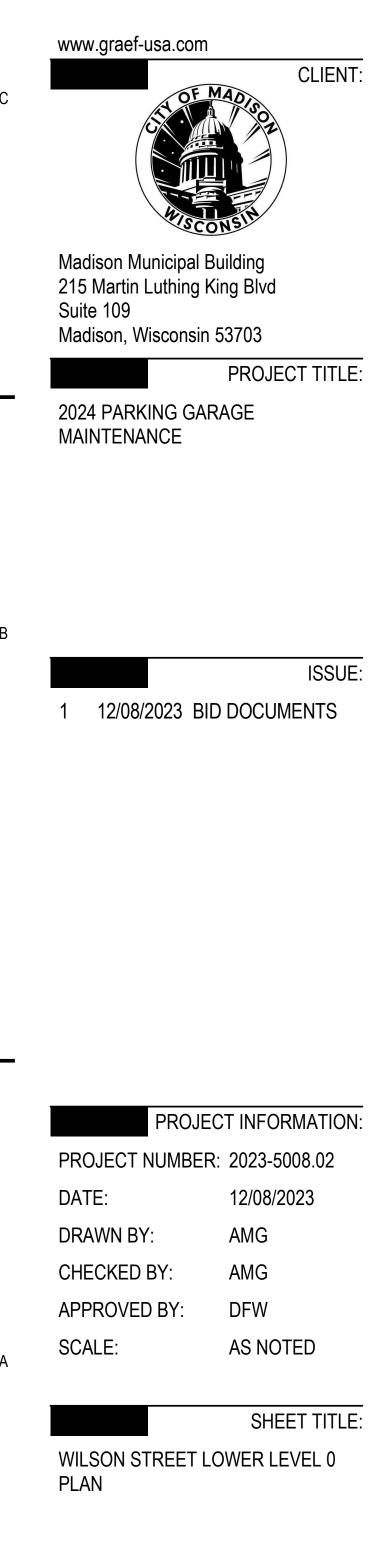
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SCRIPTION	DETAIL REFERENCE(S)
SIDE SURFACE SPALL REPAIR	B4 / S501
RHEAD SURFACE SPALL REPAIR	C4 / S501
FICAL SURFACE REPAIR	A3/S501 A4/S501
/I SPALL REPAIR	B3 / S501
EMBRANE INSTALLATION OR REPLACEMENT	N/A
3 CRACK REPAIR: ROUT AND SEAL	B2/S501
3 CRACK REPAIR: ROUT WITH SLOT AND SEAL (WSG)	A2/S501
RTAR JOINT REPAIR	N/A
ENT	N/A
APPLICATION (SSCO)	N/A
PLACE EXISTING OR INSTALL NEW SEALANT JOINT	N/A
REPAIRS (CSN)	B1/S501
TING STAIR TREADS/COVER PLATES	N/A
ECAST WALL/PANEL CONNECTION	SEE PLAN
OOR DRAINS	A5 / P001



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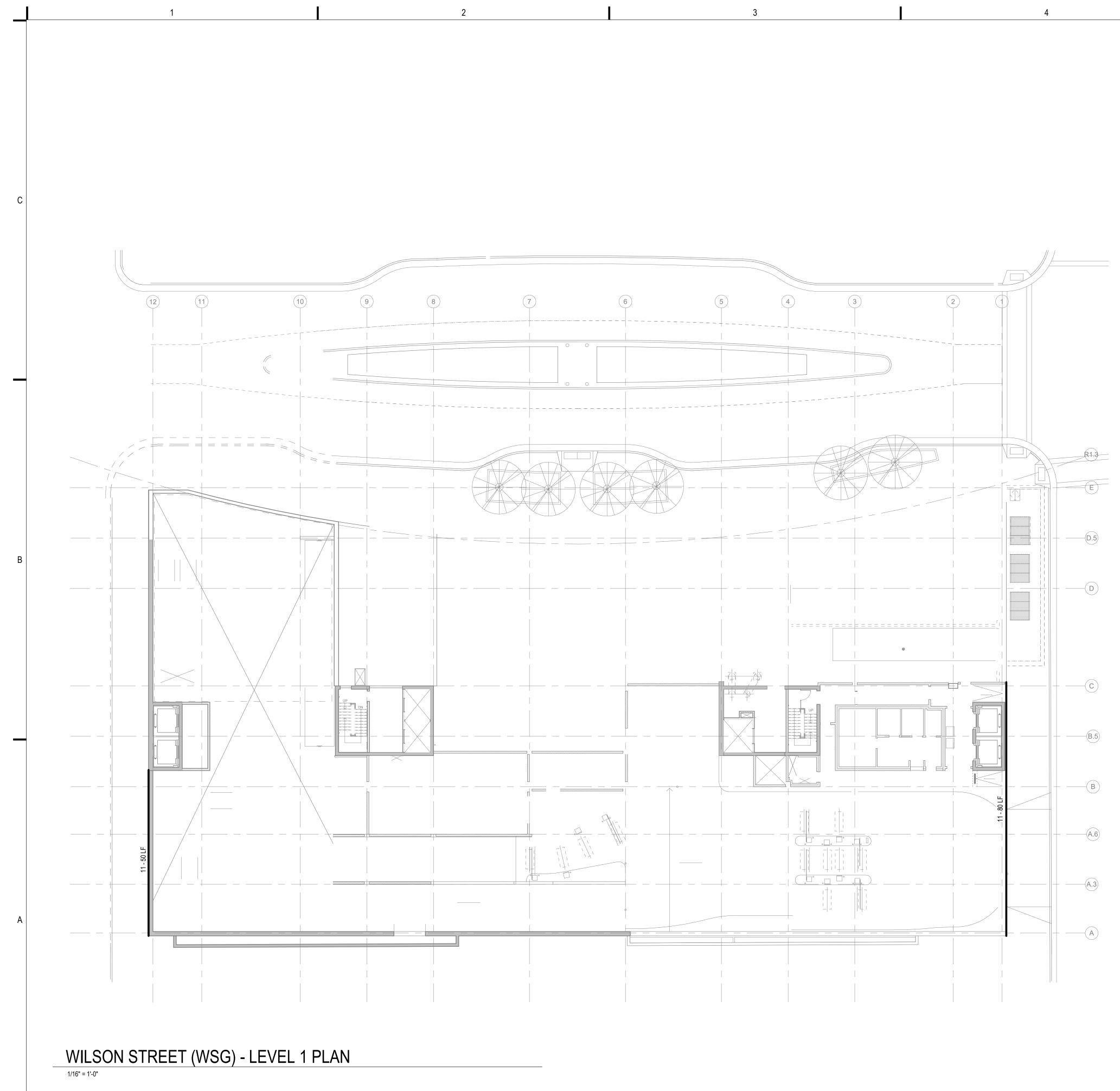
SHEET NUMBER:

WS-S100



S. PINCKNEY STREET

E. WILSON STREET



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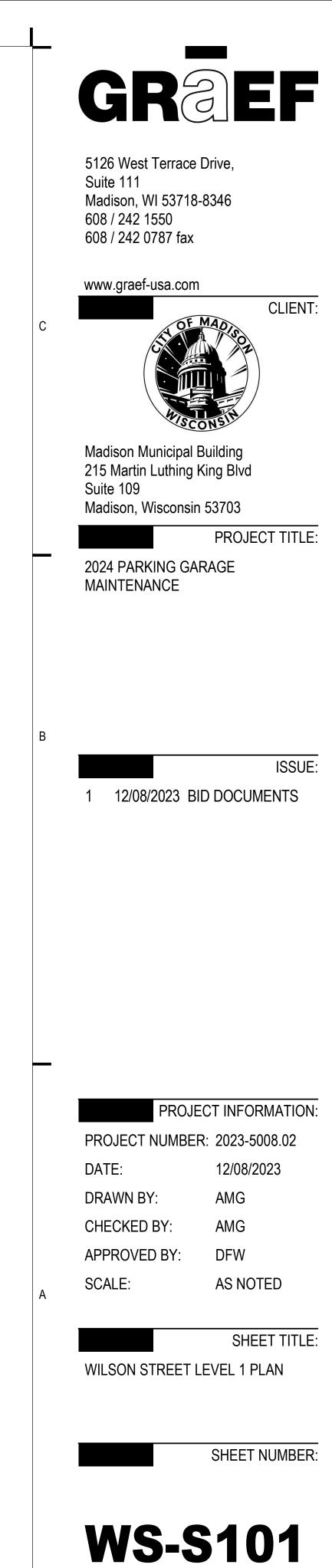
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 \mathcal{N} N (PLAN NORTH TRUE NORTH

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S.	PINCKNEY
	STREET

KEY PLAN

E. WILSON STREET

5

	PLUMBING ABBREVIATIONS									DESIG	N CRITERIA	
F - G - B -	AREA DRAIN ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ACID NEUTRALIZING BASIN	EEW - E ESEW - E ELEV - E	LEVATION MERGENCY OVE	WASH WER / EYE WASH STATION RFLOW DRAIN PIPING	M - METER MAX - MAXIMUM MB - MOP BASI MECH - MECHANIC MEP - MECHANIC MEZZ - MEZZANIN	CAL CAL, ELECTRICAL, AND		 ROOF DRAIN ROUGH-IN REVERSE OSMOSES RECIRCULATION PUMP REVOLUTIONS PER MINUTE DEDUCED DRESSURE ZONE VALUE 	APPLICABLE CO	2. 2015 INTERNA		E WITH LOCAL AMENDMENTS ELEVATORS AND ESCALATORS
; - P - DG -	BELOW SLAB BACKFLOW PREVENTER BUILDING	EXT - E EWC - E	XPANSION TANK LECTRIC WATER LECTRIC WATER	COOLER	MFR - MANUFAC MH - MANHOLE MIN - MINIMUM MISC - MISCELLA	TURER OR MINUTES	RPZ RV RH S SAN	 REDUCED PRESSURE ZONE VALE RELIEF VALVE ROOF HYDRANT SINK SANITARY PIPING 		VIEW LOC	ATION LEGEN	D
-	BALL VALVE BACKWATER VALVE	FCO - FI FD - FI FDC - FI	AHRENHEIT LOOR CLEANOUT LOOR DRAIN IRE DEPARTMEN		MS - MOP SINK NA - NOT APPL N.C NORMALL' NIC - NOT IN CC	Y CLOSED	SCH SD SE SF	 SCHEDULE SITE DRAIN SEWAGE EJECTOR SQUARE FOOT 		D1 D2 D3	D4 D5	D6
NC -	CONCRETE	FS - FI FT - FI FU - FI	UME HOOD LOOR SINK EET IXTURE UNITS LUSH VALVE		NO - NUMBER N.O NORMALL' NPCW - NON POTA NPHW - NON POTA	Y OPEN \BLE COLD WATER \BLE HOT WATER	SH SL SP SP	- SHOWER - SLOPE - SUMP PUMP - STANDPIPE		C1 C2 C3	C4 C5	C6
R - -	CONNECTION CENTER COPPER CHECK VALVE	GAL - G GCO - G GI - G	GALLON GRADE OR GROUI GREASE INTERCE	PTOR	NPHWR - NON POTA NPS - NOMINAL NTS - NOT TO SO OBV - OIL BASIN	CALE	RN SPEC SS STD STM	 SPECIFICATION SERVICE SINK STANDARD STORM PIPING 		B1 B2 B3 A1 A2 A3	B4 B5 A4 A5	B6 A6
VFU - VC - V -	COLD WATER FIXTURE UNITS CHLORINATED POLYVINYL CHLORIDE DOUBLE CHECK VALVE	GPM - G GV - G	GALLONS PER HO GALLONS PER MIN GATE VALVE IOSE BIBB		OC - ON CENTE OD - OUTSIDE I OHD - OPEN HUE OS&Y - OUTSIDE S	R DIAMETER 3 DRAIN SCREW AND YOKE	T&P TD TEMP TH	- THERMOMETER				
- T -	DECK DRAIN DETAIL	HD - H HR - H	IUB DRAIN IOUR IOSE STATION			CY OVERFLOW ROOF I	TOP	 THERMOSTATIC MIXING VALVE TOP OF FOOTING TOP OF PIPE TOP OF SLAB 		GENERA	L SYMBOLS	
U - W - WR -	DRAINAGE FIXTURE UNITS DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN	HW - H HWFU - H HWR - H HYD - H	IOT WATER IOT WATER FIXTU IOT WATER RETU IYDRAULIC IEAT EXCHANGEF	RN			TOS TYP U / UR V	- TYPICAL - URINAL - VENT		REVISION CLOUD WITH T	AG (S) 123.00'	INVERT ELEVATION
A - -	DIAMETER DOWN DOWNSPOUT DRAIN TILE	ID - IN IE - IN	NSIDE DIAMETER NVERT ELEVATIO CE MACHINE		PIV - POST INDI PLBG - PLUMBING POC - POINT OF PRESS - PRESSUR	CATOR VALVE G CONNECTION E	VIF VTR WTR W	 VERIFY IN FIELD VENT THROUGH ROOF WATER WASTE 		# VIEW CALLOUT (ENLARGED PLANS)	•	ELEVATION MARKER
/ - / - /G -		INSUL - IN IW - IN	NCHES NSULATION NDIRECT WASTE		PSF - POUNDS F PSI - POUNDS F PSIA - POUNDS F	e Relief Valve Per Square Foot Per Square Inch Per Square Inch Abs Per Square Inch Gau		- WATER HAMMER ARRESTOR - WALL HYDRANT - WALL CLEANOUT - WATER CLOSET			e	POINT OF CONNECTION (POC)
		L - L/ LPM - LI LS - L/	AVATORY ITERS PER MINU AB SINK AUNDRY TUB	ΓE	PVC - POLYVINY QTY - QUANTITY	L CHLORIDE	WF WM WOB WSFU	 WASH FOUNTAIN WASHING MACHINE WALL OUTLET BOX WATER SUPPLY FIXTURE UNITS 		STACK REFERENCE		POINT OF DISCONNECTION
			AUNDRY WASTE	OR LAB WASTE			YH	- YARD HYDRANT	#	VIEW REFERENCE (DETAIL TAGS)	#	PLAN KEYED NOTE
				PLUMBING S	YMBOLS					ISOMETRIC TAG	TAG — — TAG — —	PIPE TAG
	ANGLE VALVE (AV)		0	FLOOR DRAIN		o	RISER UP (ELBO	DW)		PIPING, EQUIPMENT, DEV	ICES, ETC. TO BE DEM	IOLISHED
<u>></u>	AQUASTAT			FLOOR SINK			ROOF DRAIN			EXISTING PIPING OR EQU NEW PIPING OR EQUIPM		
	BACKFLOW PREVENTER (BFP or RPZ)			FLOW DIRECTION ARROW		-+ _1	SANITARY TEE					
_	BALANCING VALVE (BV)		₽	FLOW SWITCH (FS)		-Ō-	SOLENOID VAL	VE (SV)		PLUMBING SYS	EM ABBREVIA	ATIONS
-	BALL VALVE			GATE VALVE (GV)		-+>+-	STRAINER			DOMESTIC COLD WATER	ROCW	REVERSE OSMOSIS / DIONIZED COLD WATER
<u> </u>	BRANCH, BOTTOM CONNECTION			GLOBE VALVE (GLV)		_+±+-	TEE BRANCH		DHW	DOMESTIC HOT WATER		REVERSE OSMOSIS / DIONIZED HOT WATER
)-	BRANCH, TOP CONNECTION		T	HOSE BIBB OR WALL HYD	RANT		TEMPERATURE	TRANSMITTER		DOMESTIC HOT WATER RET	IRN V	SANITARY VENT
$\left\lceil \vdash \right.$	BUTTERFLY VALVE (BFV)		Ø	HUB DRAIN		<u> </u>	THERMOMETER	3		DOMESTIC TEMPERED WATE (80°F)	R SAN	- SANITARY SEWER
-] 	CAP ON END OF PIPE		<u>م</u>	PRESSURE GAUGE WITH	/ALVE (PG)	-%	THERMOSTATIO	C MIXING VALVE		DOMESTIC TEMPERED WATE RETURN		- STORM SEWER
	CHECK VALVE (CV)		### PSI	PRESSURE-REDUCING VA	LVE (PRV)	-+	UNION (SCREW	ED)	PCW	PROCESS COLD WATER (SOFTENED)	PV	
⊣co	CLEANOUT PLUG (CO)		P ^{PS}	PRESSURE SWITCH (PS)		×" wco ア	WALL CLEANOU	IT WITH SIZE (WCO)	PHW	PROCESS HOT WATER (SOFTENED) PROCESS HOT WATER RETL	PSAN 	- PROCESS SANITARY
₹—	DOUBLE SANITARY TEE		P P	PRESSURE TRANSMITTER		A "	WATER HAMME WITH PDI SIZIN	R ARRESTER (WHA) G	PHWR	(SOFTENED)		
	DRAIN WITH P-TRAP			RECIRCULATION PUMP			WATER METER	(WM)		D	RAIN AND C	LEANOUT SCHEDU
<u>}</u>						<u></u>			TAG MANU	ACTURER MODEL NO. SER	BODY	STRAINER OUTLET

				PLUMBING ABB	REVIATIONS				D	ESIGN C	RITERIA			
FF	 AREA DRAIN ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ACID NEUTRALIZING BASIN ARCHITECTURAL 	SEW - LEV - OD - QUIP -	ELEVATION EMERGENCY OVE EQUIPMENT	WER / EYE WASH STATION RFLOW DRAIN PIPING	MEZZ - MEZZANINE	AL AL, ELECTRICAL, ANI :	RPZ - REDUCED PRESSURE ZONE VALE	APPLICABLE CODES	2. 2015 IN	TERNATION		ODE WITH L	OCAL AMENDMENTS ORS AND ESCALATORS	 REFERENCE THE SPECT VERIFY ALL MEASURE THE PLUMBING INSTACT
/S FP LDG	- BELOW SLAB E - BACKFLOW PREVENTER E - BUILDING	EXT - EWC - EWH -	EXPANSION TANK ELECTRIC WATER ELECTRIC WATER	COOLER	MFR - MANUFACT MH - MANHOLE MIN - MINIMUM O MISC - MISCELLAN	R MINUTES	RV - RELIEF VALVE RH - ROOF HYDRANT S - SINK SAN - SANITARY PIPING		VIEW	LOCAT	ON LEGE	ND		4. UTILITIES AND SERVIC CONDITIONS MAY EXIS AND BURIAL DEPTHS,
OP OT V WV LG	- BALL VALVE F - BACKWATER VALVE F - CEILING F	- CO - D - DC - H 	FAHRENHEIT FLOOR CLEANOU ^T FLOOR DRAIN FIRE DEPARTMEN FUME HOOD		MS - MOP SINK NA - NOT APPLIC N.C NORMALLY NIC - NOT IN CON NO - NUMBER	CLOSED	SCH - SCHEDULE SD - SITE DRAIN SE - SEWAGE EJECTOR SF - SQUARE FOOT SH - SHOWER		D1 D2	D3	D4 D:	5 D6		 5. INVERT ELEVATIONS 6. DRAWINGS OF ALL OT PREVENT INTERFERE
0	- CLEANOUT F - COLUMN F - CONCRETE F - CONNECTION F	- T - 	FLOOR SINK FEET FIXTURE UNITS FLUSH VALVE		N.O NORMALLY NPCW - NON POTAE NPHW - NON POTAE NPHWR - NON POTAE	BLE COLD WATER BLE HOT WATER BLE HOT WATER RET	SL - SLOPE SP - SUMP PUMP SP - STANDPIPE		C1 C2 B1 B2	C3 B3	C4 C:			 FIELD VERIFY EXISTIN EXTENSION OF THE N 8. NOTIFY OWNER AT LE SERVICES. SERVICES
J	COPPER GG CHECK VALVE GG COLD WATER COLD WATER FIXTURE UNITS CHI ORINATED POLYMINAL CHI ORIDE GG	9 - 9Ph - 9PM -	GALLON GRADE OR GROUI GREASE INTERCE GALLONS PER HIN GALLONS PER MIN	PTOR UR	NPS - NOMINAL P NTS - NOT TO SC OBV - OIL BASIN V OC - ON CENTER OD - OUTSIDE D	ALE /ENT R	STD - STANDARD STM - STORM PIPING T&P - TEMPERATURE AND PRESSURE TD - TRENCH DRAIN		A1 A2	A3	A4 AS	5 A6		9. PIPE ROUTING SHOW AND FITTINGS REQUI AND OTHER POTENTI
CV CW	- DOUBLE CHECK VALVE H - DOMESTIC COLD WATER H		GATE VALVE HOSE BIBB HUB DRAIN		OHD - OPEN HUB OS&Y - OUTSIDE S OI - OIL INTERC	DRAIN CREW AND YOKE	TEMP - TEMPERATURE TH - THERMOMETER TMV - THERMOSTATIC MIXING VALVE F DRAIN TOF - TOP OF FOOTING		GEN	IERAL S	YMBOLS			10. PLUMBING CONTRAC ELEVATIONS. TURN T DRAIN LOCATIONS AI
T U IW	- DETAIL H - DRINKING FOUNTAIN H - DRAINAGE FIXTURE UNITS H	IS - IW - IWFU - IWR -	HOUR HOSE STATION HOT WATER HOT WATER FIXTU HOT WATER RETU			BALANCING VALVE	TOP - TOP OF PIPE		REVISION CLOUD		S 123.00'		INVERT ELEVATION	11. PROVIDE ALL OFFSET 12. CONFLICT BETWEEN RESERVES THE RIGH
I IA N S		ΗΧ - D - E -	HYDRAULIC HEAT EXCHANGEI INSIDE DIAMETER INVERT ELEVATIO		PITCH - PITCHES UI PIV - POST INDIC PLBG - PLUMBING POC - POINT OF C PRESS - PRESSURE	ATOR VALVE	V - VENT VIF - VERIFY IN FIELD VTR - VENT THROUGH ROOF WTR - WATER			S)	•	-	ELEVATION MARKER	13. CONCEAL PIPING ABO
ΓW	- DOMESTIC TEMPERED WATER IN - DRAIN VALVE IN - DISHWASHER IV - DRAWING	N - NSUL - W -	ICE MACHINE INCHES INSULATION INDIRECT WASTE		PRV - PRESSURE PSF - POUNDS PE PSI - POUNDS PE PSIA - POUNDS PE	RELIEF VALVE ER SQUARE FOOT ER SQUARE INCH ER SQUARE INCH AB ER SQUARE INCH GA	W - WASTE WHA - WATER HAMMER ARRESTOR WH - WALL HYDRANT 3SOLUTE WCO - WALL CLEANOUT		SECTION VIEW		Ð		POINT OF CONNECTION (POC)	15. SLEEVE AND/OR FIRE SHALL BE EQUAL TO (16. FLASH AND COUNTER
Л	L	- .PM - .S -	KITCHEN WASTE LAVATORY LITERS PER MINU LAB SINK LAUNDRY TUB	TE	PVC - POLYVINYL QTY - QUANTITY		WF - WASH FOUNTAIN WM - WASHING MACHINE WOB - WALL OUTLET BOX WSFU - WATER SUPPLY FIXTURE UNITS		STACK REFERENC	E		1	POINT OF DISCONNECTION	17. PROVIDE FOUNDATIC18. SEE ARCHITECTURAL19. PROVIDE AN AIR GAP
	L		LAUNDRY WASTE	OR LAB WASTE			YH - YARD HYDRANT	<u>#</u> #####	VIEW REFERENCE (DETAIL TAGS)		(#)		PLAN KEYED NOTE	20. ALL EXPOSED PIPE A 21. PROVIDE CLEANOUT
				PLUMBING S	YMBOLS				ISOMETRIC TAG		TAG —		PIPE TAG	22. COORDINATE EXACT SLOPING TO THE DR
1	- ANGLE VALVE (AV)		0	FLOOR DRAIN		o	RISER UP (ELBOW)				TAG ——	•		23. IT IS THE INTENT OF INSTALLATION. 24. COORDINATE PIPING
									PIPING, EQUIPME	NT, DEVICES	, ETC. TO BE D	EMOLISHED)	
\$	- AQUASTAT			FLOOR SINK		Ø	ROOF DRAIN		PIPING, EQUIPME	·)	25. PROVIDE SANITARY
				FLOOR SINK FLOW DIRECTION ARROW		-+ <u>7</u> +	ROOF DRAIN SANITARY TEE			OR EQUIPME)	25. PROVIDE SANITARY V STOPS, VALVES, TRA
\sim							SANITARY TEE		EXISTING PIPING	OR EQUIPME	ENT TO REMAII	1		25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTHI FOOT.
	BACKFLOW PREVENTER (BFP or RPZ)			FLOW DIRECTION ARROW		-+ 2+	SANITARY TEE		Existing Piping New Piping or E	OR EQUIPME QUIPMENT	ENT TO REMAII	IATION		25. PROVIDE SANITARY V STOPS, VALVES, TRAI26. UNLESS NOTED OTHE FOOT.
	BACKFLOW PREVENTER (BFP or RPZ)			FLOW DIRECTION ARROW FLOW SWITCH (FS)		-+ <u>5</u> +	SANITARY TEE SOLENOID VALVE (SV)		EXISTING PIPING NEW PIPING OR E	OR EQUIPME QUIPMENT SYSTEN ER		YIATION	S ERSE OSMOSIS / DIONIZED	25. PROVIDE SANITARY V STOPS, VALVES, TRAI26. UNLESS NOTED OTHE FOOT.
×××	BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV)		-+ <u>5</u> +- -+ <u>5</u> +-	SANITARY TEE SOLENOID VALVE (SV) STRAINER		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WA	OR EQUIPME QUIPMENT SYSTEM ER		YIATION REVE REVE HOT	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED	25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTHE FOOT.
	 BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE BRANCH, BOTTOM CONNECTION BRANCH, TOP CONNECTION 			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV) GLOBE VALVE (GLV)			SANITARY TEE SOLENOID VALVE (SV) STRAINER TEE BRANCH		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WAT	OR EQUIPME QUIPMENT SYSTEM ER ER	I ABBRE	YIATION	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED WATER	25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTHE FOOT.
	 BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE BRANCH, BOTTOM CONNECTION BRANCH, TOP CONNECTION 			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV) GLOBE VALVE (GLV) HOSE BIBB OR WALL HYDI	RANT		SANITARY TEE SOLENOID VALVE (SV) STRAINER TEE BRANCH TEMPERATURE TRANSMITTER		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WAT DOMESTIC HOT WATE	OR EQUIPME QUIPMENT SYSTEM ER ER R R R R R R R R R R R R R R R R		VIATION COLD REVE COLD REVE HOT SANI SANI	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED WATER ITARY VENT	25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTHE FOOT.
	 BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE BRANCH, BOTTOM CONNECTION BRANCH, TOP CONNECTION BUTTERFLY VALVE (BFV) 			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV) GLOBE VALVE (GLV) HOSE BIBB OR WALL HYDI HUB DRAIN	RANT /ALVE (PG)		SANITARY TEE SOLENOID VALVE (SV) STRAINER TEE BRANCH TEMPERATURE TRANSMITTER THERMOMETER		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WATE DOMESTIC HOT WATE DOMESTIC HOT WATE DOMESTIC TEMPERE 80°F)	OR EQUIPME QUIPMENT SYSTEM ER ER ER ER ER ER ER ER ER ER ER ER ER	ABBRE	VIATION	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED WATER ITARY VENT ITARY SEWER	25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTHE FOOT.
	 BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE BRANCH, BOTTOM CONNECTION BRANCH, TOP CONNECTION BUTTERFLY VALVE (BFV) CAP ON END OF PIPE CHECK VALVE (CV) 			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV) GLOBE VALVE (GLV) HOSE BIBB OR WALL HYDI HUB DRAIN PRESSURE GAUGE WITH Y	RANT /ALVE (PG)		SANITARY TEE SOLENOID VALVE (SV) STRAINER TEE BRANCH TEMPERATURE TRANSMITTER THERMOMETER THERMOSTATIC MIXING VALVE		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WAT DOMESTIC HOT WATE DOMESTIC HOT WATE DOMESTIC TEMPERE 80°F) DOMESTIC TEMPERE RETURN	OR EQUIPME QUIPMENT SYSTEM ER ER ER O WATER D WATER ER	ABBREN	'IATION 'IATION REVE REVE SANI SANI SANI SANI PRO	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED WATER ITARY VENT ITARY SEWER RM SEWER	25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTHE FOOT.
	 BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE BRANCH, BOTTOM CONNECTION BRANCH, TOP CONNECTION BUTTERFLY VALVE (BFV) CAP ON END OF PIPE CHECK VALVE (CV) 			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV) GLOBE VALVE (GLV) HOSE BIBB OR WALL HYDI HUB DRAIN PRESSURE GAUGE WITH Y PRESSURE-REDUCING VA	RANT /ALVE (PG) LVE (PRV)		SANITARY TEE SOLENOID VALVE (SV) STRAINER TEE BRANCH TEMPERATURE TRANSMITTER THERMOMETER UNION (SCREWED) UNION (SCREWED)		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WAT DOMESTIC HOT WATE DOMESTIC HOT WATE DOMESTIC TEMPERE 80°F) DOMESTIC TEMPERE 80°F) PROCESS COLD WAT SOFTENED) PROCESS HOT WATE	OR EQUIPME QUIPMENT SYSTEM ER ER R R RETURN D WATER D WATER ER ER	I ABBRE\ ROCW ROHW SAN ST	'IATION 'IATION REVE REVE SANI SANI SANI SANI PRO	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED WATER ITARY VENT ITARY SEWER RM SEWER CESS VENT	25. PROVIDE SANITARY V STOPS, VALVES, TRA 26. UNLESS NOTED OTH FOOT.
	 BACKFLOW PREVENTER (BFP or RPZ) BALANCING VALVE (BV) BALL VALVE BRANCH, BOTTOM CONNECTION BRANCH, TOP CONNECTION BUTTERFLY VALVE (BFV) CAP ON END OF PIPE CHECK VALVE (CV) CLEANOUT PLUG (CO) DOUBLE SANITARY TEE 			FLOW DIRECTION ARROW FLOW SWITCH (FS) GATE VALVE (GV) GLOBE VALVE (GLV) HOSE BIBB OR WALL HYDI HUB DRAIN PRESSURE GAUGE WITH Y PRESSURE SWITCH (PS)	RANT /ALVE (PG) LVE (PRV)		SANITARY TEE SOLENOID VALVE (SV) STRAINER TEE BRANCH TEMPERATURE TRANSMITTER THERMOMETER THERMOSTATIC MIXING VALVE UNION (SCREWED) WALL CLEANOUT WITH SIZE (WCO) WATER HAMMER ARRESTER (WHA)		EXISTING PIPING NEW PIPING OR E PLUMBING DOMESTIC COLD WAT DOMESTIC HOT WATE DOMESTIC HOT WATE DOMESTIC TEMPERE 80°F) DOMESTIC TEMPERE 80°F) PROCESS COLD WAT SOFTENED) PROCESS HOT WATE (SOFTENED)	OR EQUIPME QUIPMENT SYSTEM ER ER ER O WATER O WATER ER ER ER	ABBREN	'IATION 'IATION REVE - REVE - SANI - SANI - SANI - PRO - PRO - PRO - PRO - PRO	S ERSE OSMOSIS / DIONIZED D WATER ERSE OSMOSIS / DIONIZED WATER ITARY VENT ITARY SEWER RM SEWER CESS VENT	

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PLUMBING SYMBOLS, ABBREVIATIONS, SCHEDULES & SHEET INDEX

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

PLUMBING GENERAL NOTES

- MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
- , PIPE LOCATIONS, ELEVATIONS, ETC. AT SITES.
- OMPLY WITH ALL STATE AND LOCAL CODES.
- DURING CONSTRUCTION, WILL BE NECESSARY.
- FERENCED TO BUILDING FIRST FLOOR DATUM.
- RESPECTIVE INSTALLATION.
- EFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
- AND ROUTE PIPING TO AVOID INTERFERENCES.
- ND MAKE CONNECTION TO SITE UTILITIES.
- HIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
- VES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
- IETRATIONS.
- IXTURE LOCATIONS AND MOUNTING HEIGHTS.
- IISHED AREAS SHALL BE CHROME PLATED.
- ATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR
- IRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
- 3 3" AND LARGER SHALL BE INSTALLED AT A SLOPE OF 1/8" PER FOOT AND PIPING 2" AND SMALLER AT 1/4" PER

P-001	PLU
P-101	LEV
P-102	LEV
P-103	LEV

E TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORESEEN K MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING

BE REVIEWED. COORDINATE THE INSTALLATION AND SCHEDULING OF THE WORK WITH OTHER TRADES TO

. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND

IOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF

AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS

Y EXISTING UNDERGROUND STORM BUILDING DRAINS PRIOR TO NEW CONNECTIONS TO EXISTING PIPING. VERIFY DEO OVER TO OWNER FOR HIS RECORDS. PLUMBING CONTRACTOR SHALL MARKUP A SET OF PRINTS WITH EXISTING ENGINEER AND INCLUDE ON RECORD DRAWINGS. REFER TO PROJECT SPECIFICATIONS FOR MORE INFORMATION.

PECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING. THE ENGINEER

ATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES ATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.

ON SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.

BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.

WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUTS WITH COVER FLUSH TO FINISH SURFACE.

THAT A COMPLETE WORKING SYSTEM PROPERLY TESTED, WILL BE OPERATIONAL UPON COMPLETION OF

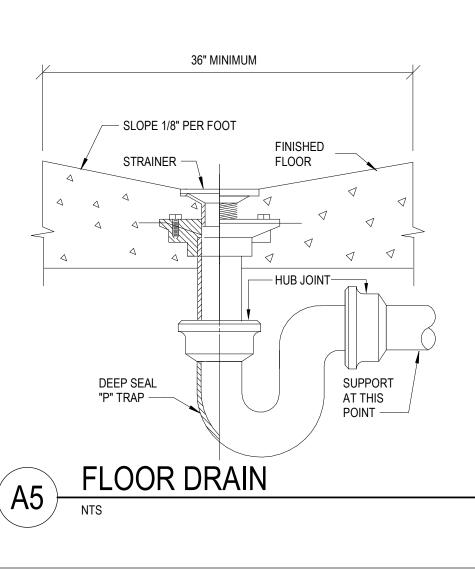
CAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER

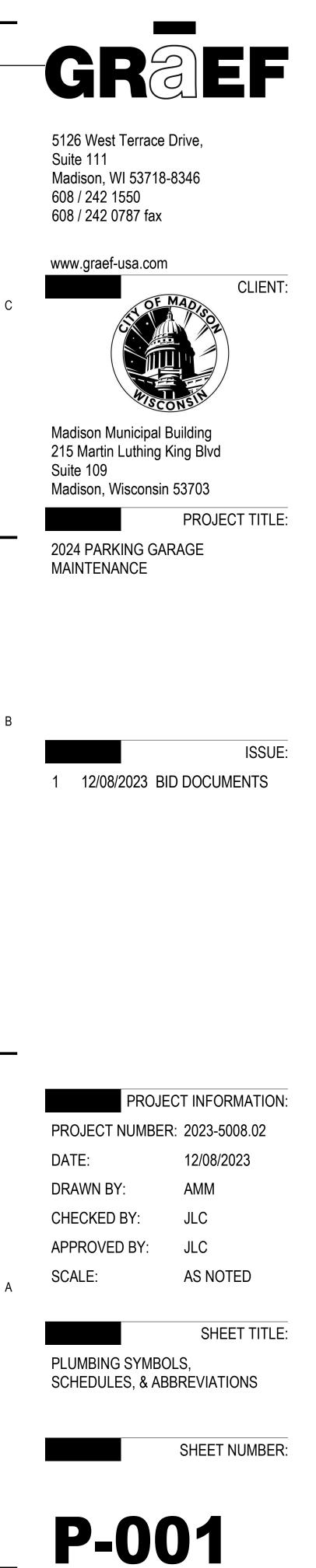
ESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.

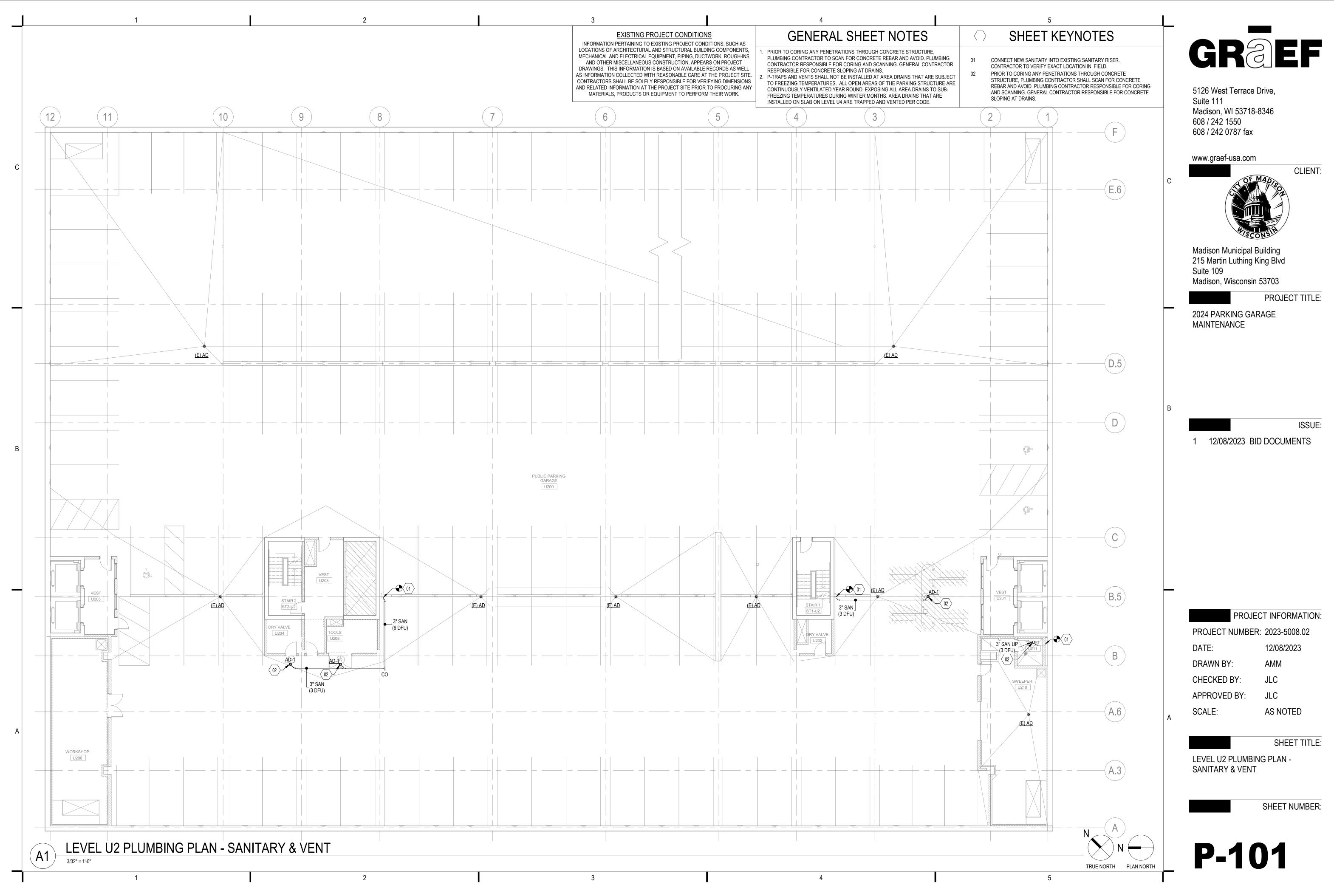
PONSIBLE FOR ALL CUTTING AND PATCHING OF HOLES AND OPENINGS IN EXISTING WALLS AND FLOORS.

PLUMBING SHEET INDEX

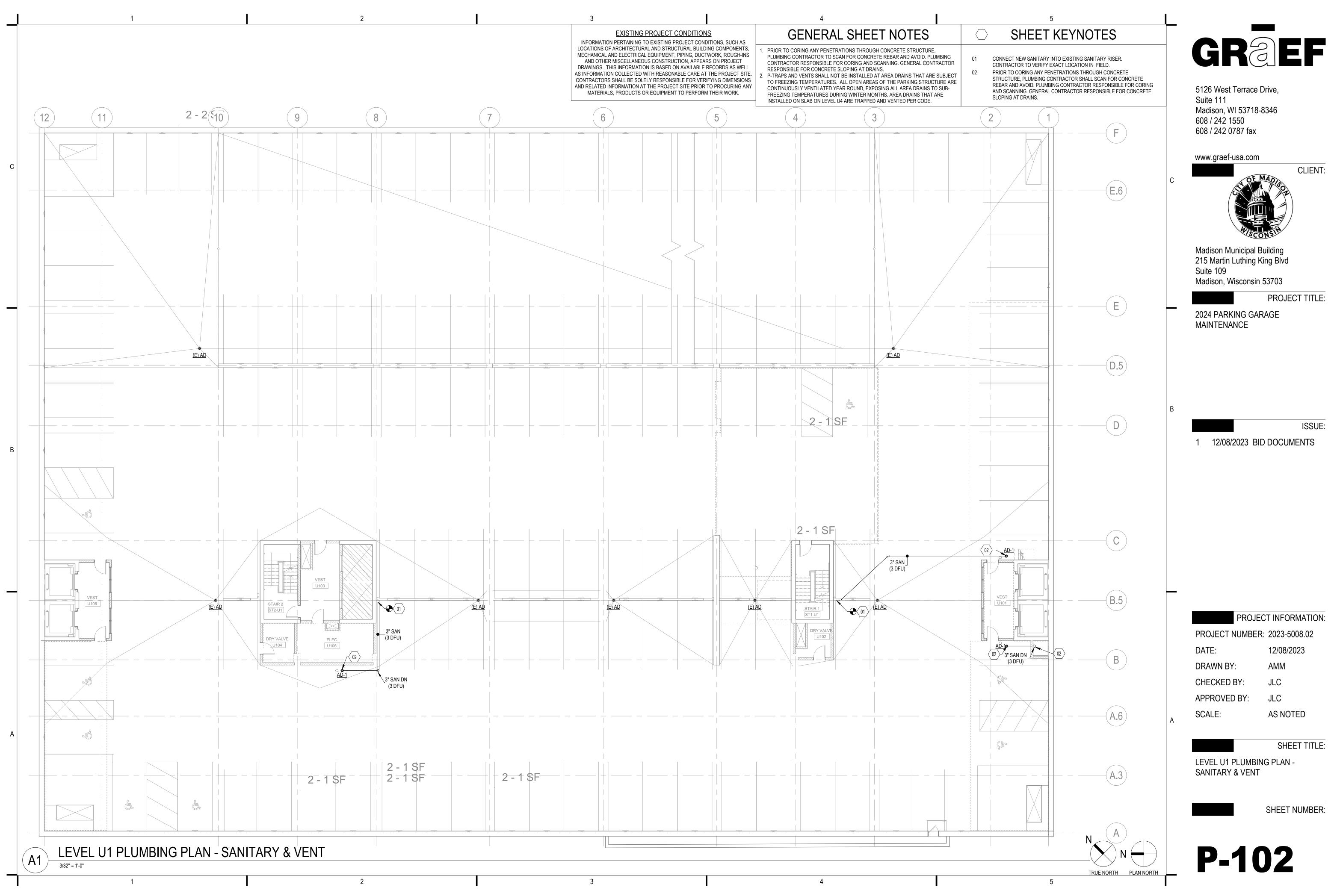
UMBING SYMBOLS, SCHEDULES, & ABBREVIATIONS VEL U2 PLUMBING PLAN - SANITARY & VENT VEL U1 PLUMBING PLAN - SANITARY & VENT VEL U0 PLUMBING PLAN - SANITARY & VENT



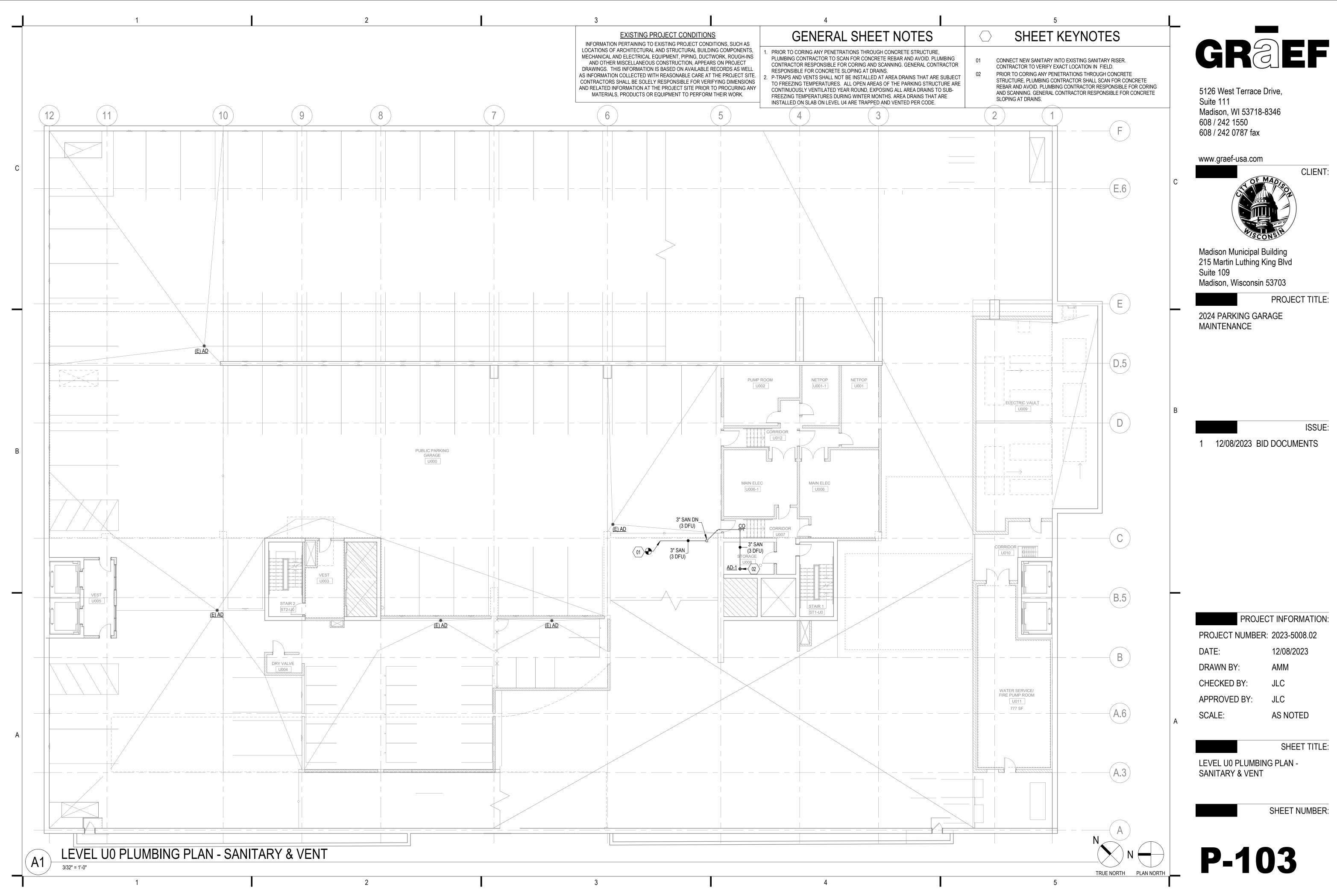




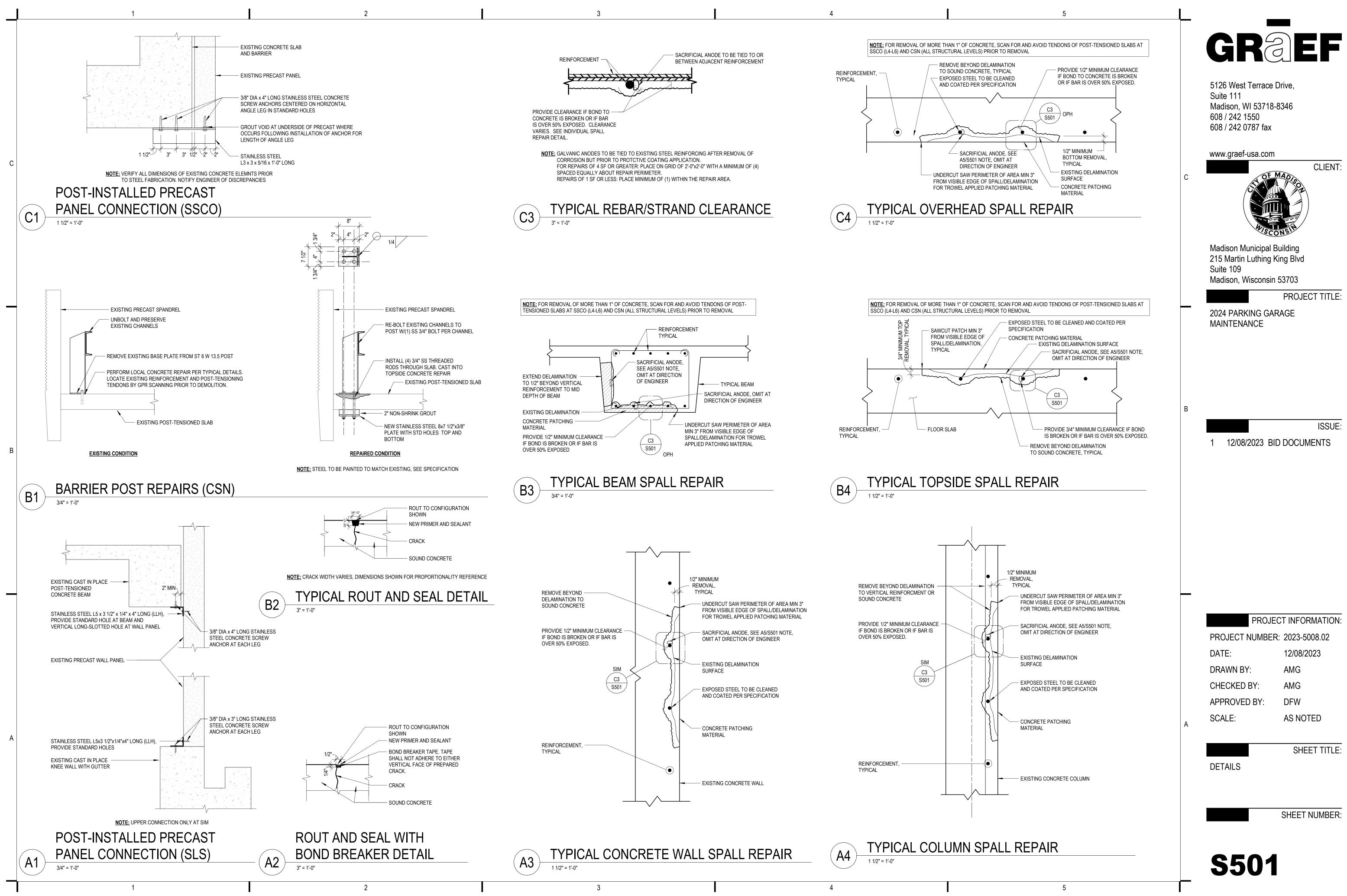
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