

WO 2 FORT BROOKE PARKING GARAGE HIGH PRIORITY REPAIRS TAMPA, FL



Walter P Moore and Associates, Inc.
300 South Orange, Suite 1200
Orlando, FL 32801

**walter
p moore**

407.418.2218
Certificate of Authorization No. 3818

Project Name:

**WO 2 FORT BROOKE
PARKING GARAGE HIGH
PRIORITY REPAIRS**

Client :

CITY OF TAMPA

Issues/Revisions :

Bid Set

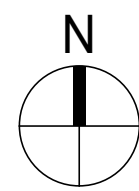
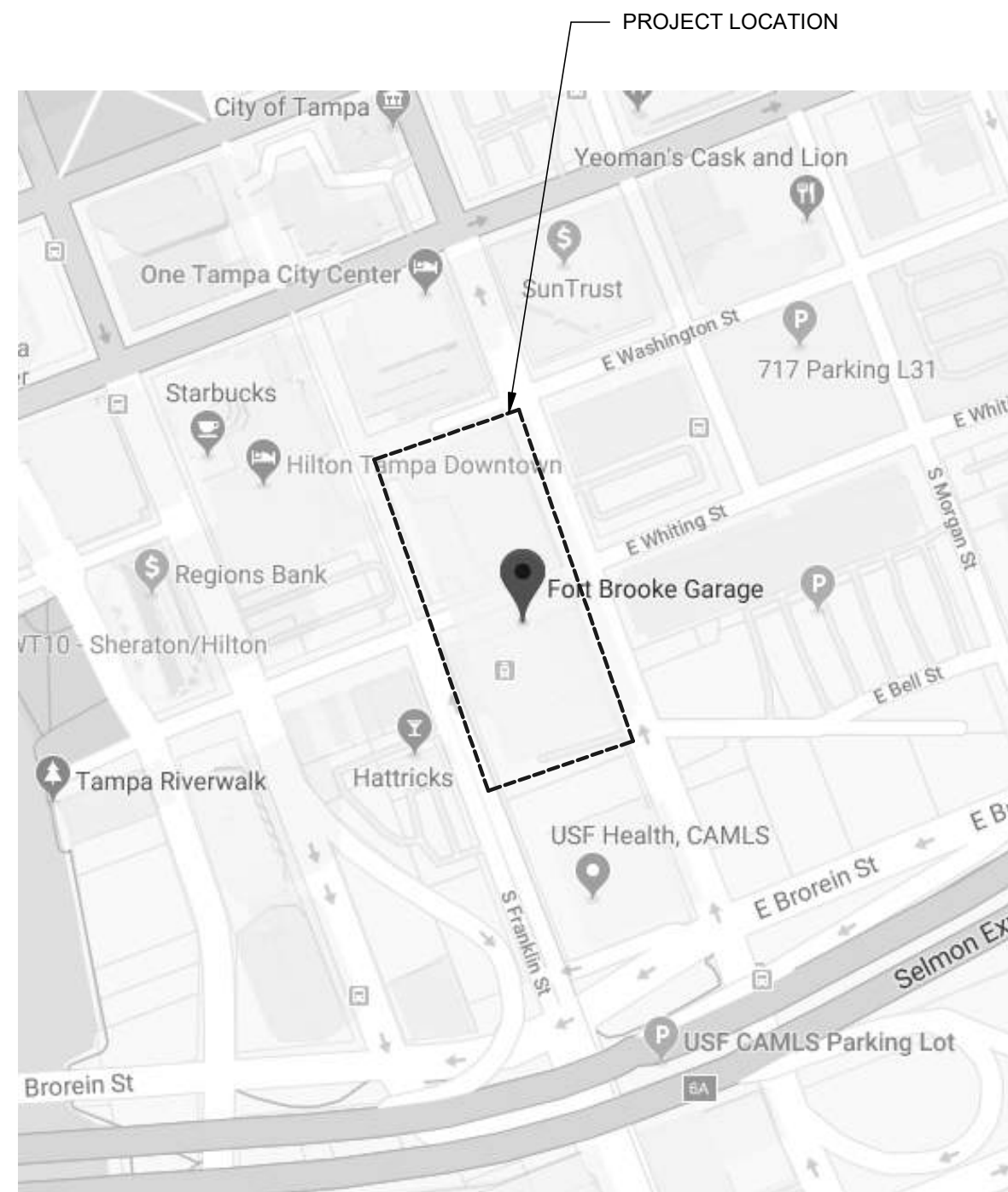
No.	Date	Description
1	2/3/20	Issued for Owner Review
2	4/3/20	Issued for Bid
3	5/4/20	Issued for Permit

Project Number : D07.19060.00
Approved By : WW

Drawn By : RC
Checked By : YAM

Certification
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE 2017 FLORIDA BUILDING CODE.

Seal and Signature :



SITE PLAN

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E. Webb Wright, P.E.
Professional Engineer No. 57639
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COVER SHEET

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GENERAL STRUCTURAL NOTES



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PART I - DESIGN CRITERIA

A. GENERAL BUILDING CODE

- THE REPAIR DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, SIXTH EDITION (2017).

PART II - NON-DESTRUCTIVE EVALUATION

A. ITEMS EMBEDDED IN CONCRETE STRUCTURES

- ITEMS EMBEDDED IN CONCRETE STRUCTURES SHALL NOT BE DAMAGED DURING REPAIR WORK OR INSTALLATION OF NEW MEMBERS REQUIRING POST-INSTALLED ANCHORS. EMBEDDED ITEMS MAY INCLUDE MILD REINFORCEMENT, PRESTRESSING REINFORCEMENT, DOWELS, EMBEDDED CONNECTIONS, ELECTRICAL CONDUITS, PLUMBING, ETC.
- ITEMS EMBEDDED IN CONCRETE SHALL BE LOCATED BY NON-DESTRUCTIVE EVALUATION PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL MARK ON THE STRUCTURE THE LOCATION OF EMBEDDED ITEMS AND PROVIDE A REPORT TO THE ENGINEER.
- CONTRACTOR SHALL NOT START FABRICATION OF NEW MEMBERS UNTIL ITEMS EMBEDDED IN CONCRETE HAVE BEEN LOCATED. CONTACT ENGINEER IF EXISTING EMBEDDED ITEMS INTERFERE WITH LOCATION OF POST-INSTALLED ANCHORS SPECIFIED IN DRAWINGS.
- ENGINEER MAY REQUIRE A PARTICULAR NON-DESTRUCTIVE EVALUATION METHOD FOR THE LOCATION OF EMBEDDED ITEMS.

PART III - CONCRETE REPAIRS

A. CONCRETE REPAIR MATERIALS

ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS AS SPECIFIED IN SPECIFICATION SECTION "CONCRETE REPAIR MATERIALS."

B. REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60 UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THESE NOTES.

C. REINFORCING STEEL COVERAGE

- REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIREMENTS SPECIFIED ON THE DRAWINGS. COVER SPECIFIED SHALL BE CONSIDERED MINIMUM, HOWEVER EXISTING REINFORCEMENT MAY HAVE A SMALLER COVER THAN SPECIFIED IN DRAWING DETAILS. CONCRETE PATCHES CAN BE BUILT UP TO PROVIDE THE REQUIRED COVER AS LONG AS THE PATCH APPEARANCE IS ACCEPTABLE TO OWNER AND IT DOES NOT REPRESENT A TRIPPING HAZARD TO PEDESTRIANS OR A BUMP TO VEHICLES. COVER IN STRUCTURAL MEMBERS NOT SPECIFIED IN THE DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

PART IV - SUBMITTALS

A. SUBMITTAL LIST AND SCHEDULE

- THE CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THIS LIST SHALL BE UPDATED AND REVISED AND KEPT CURRENT AS THE JOB PROGRESSES. THE SUBMITTAL LIST SHALL BE ORGANIZED AS SHOWN BELOW:
 - PRODUCT DATA, CERTIFICATES, REPORTS, AND OTHER LITERATURE

B. SUBMITTALS TO BE PROVIDED TO ENGINEER

- PRODUCT SUBMITTALS: IN ADDITION TO THE SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS, THE FOLLOWING SUBMITTALS SHALL BE PROVIDED:
 - CONCRETE REPAIR MATERIALS.
 - EPOXY RESIN FOR CRACK INJECTION.
- SUBMITTAL REQUIREMENTS:
 - ALL SHOP DRAWINGS MUST BE REVIEWED AND ELECTRONICALLY STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL.
 - CONTRACTOR SHALL PROVIDE THE SUBMITTAL IN ELECTRONIC PORTABLE DOCUMENT FORMAT (PDF) PER THE SPECIFICATIONS.
 - THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS. REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

C. REPRODUCTION

- THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

PART V - MISCELLANEOUS

A. CONTRACT DOCUMENTS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
- CONTRACTOR SHALL FULLY AND PROPERLY IMPLEMENT THE ENGINEERING CONTROLS, WORK PRACTICES, AND RESPIRATORY PROTECTION AGAINST TOXIC AND HAZARDOUS SUBSTANCES INCLUDING RESPIRABLE CRYSTALLINE SILICA ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA 1926.153. WALTER P MOORE DOES NOT HAVE CONTROL OVER, CHARGE OF, OR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, NOR SHALL WALTER P MOORE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE REPAIRED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
- OPENINGS THROUGH FLOORS, ROOFS, AND WALLS FOR DUCTS, PIPING, AND/OR CONDUIT SHALL BE COORDINATED BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF HOLES AND OPENINGS WITH THE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND THE RESPECTIVE SUBCONTRACTORS.

PART V - MISCELLANEOUS (CONTINUED)

- REFER TO DRAWINGS OF EXISTING FACILITY (OTHER THAN REPAIR DRAWINGS) FOR COMPLETE INFORMATION INCLUDING: EXPANSION JOINT SYSTEMS, PREVIOUS REPAIRS PERFORMED IN THE FACILITY, PRESENCE OF POST-TENSIONING, LOCATION AND SIZE OF STRUCTURAL MEMBERS (BEAMS, COLUMNS, WALLS, ETC.), SLAB THICKNESS, AND OTHER INFORMATION RELEVANT TO THE PROJECT.

- WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMNS LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.

- IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.

B. CONFLICTS IN STRUCTURAL REQUIREMENTS

- WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE REPAIR CONTRACT DOCUMENTS, REPAIR DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.

C. EXISTING CONDITIONS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS. EXISTING DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY AND SHOULD NOT BE USED FOR FINAL CONSTRUCTION OR DETAILING.
- EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE AND SHALL BE REFERENCED FOR FAMILIARIZATION WITH EXISTING CONDITIONS. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR BEING KNOWLEDGEABLE ON INFORMATION PRESENTED IN AVAILABLE DRAWINGS AND SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
- DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. IF ANY ARCHITECTURAL, STRUCTURAL, OR MEP MEMBERS NOT DESIGNATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE OWNER SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS.
- THE CONTRACTOR SHALL PERFORM A SURVEY TO LOCATE ALL EXISTING UTILITIES (INCLUDING UNDERGROUND UTILITIES) PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE. EXISTING CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND EMERGENCY PROTECTION SYSTEM SERVING ANY AREAS OUTSIDE THE WORK AREA ARE TO BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE DURATION OF REPAIRS. CONTRACTOR SHALL MAKE NECESSARY TEMPORARY CONNECTIONS TO MAINTAIN EXISTING UTILITIES IN SERVICE DURING THE WORK. TEMPORARY, LOCALIZED INTERRUPTION OF THESE SYSTEMS SHALL REQUIRE APPROVAL BY THE OWNER.
- THE CONTRACTOR SHALL PROVIDE DUST, ODOR, AND NOISE PROTECTION, AND SAFETY MEASURES AS NECESSARY FOR THE DURATION OF REPAIRS. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE EXISTING STRUCTURE, BUILDING INTERIOR, VEHICLES, FACILITY PATRONS, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO TEMPORARY BRACING, SHORING, FORMWORK, PROTECTIVE ENCLOSURES, AND TRAFFIC CONTROLS.
- THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION CONDITION SURVEY TO DOCUMENT SITE CONDITIONS PRIOR TO START OF WORK. SUBMIT SURVEY TO OWNER AND THE ENGINEER. DOCUMENT LOCATION AND CONDITION OF ANY CONSTRUCTION DESIGNATED FOR REMOVAL AND RE-INSTALLATION.
- THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE OWNER.

D. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION

- REPAIRS OF STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL REPAIRED STRUCTURE ONLY. THE ABILITY OF THE STRUCTURAL FRAME TO RESIST THE REQUIRED CODE FORCES DERIVES FROM THE COMPLETE INSTALLATION OF THE REPAIRS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE REPAIR WORK IS COMPLETELY INSTALLED AND ALL DESIGNATED CONCRETE ELEMENTS (IF ANY) HAVE REACHED A MINIMUM OF 75% OF THEIR DESIGN STRENGTH.

E. CONTRACTOR SUBSTITUTIONS

- ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED FOR APPROVAL ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
 - A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
 - THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED WITH THE REQUEST
 - THE ICC ESR THAT IS SUBMITTED MUST REFERENCE THE BUILDING CODE UNDER WHICH THE PROJECT IS PERMITTED.
 - ICC REPORTS THAT HAVE BEEN DISCONTINUED AT THE TIME OF PRODUCT INSTALLATION WILL NOT BE ACCEPTED.

- SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

F. THE ENGINEER'S ROLE DURING CONSTRUCTION

- THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF WALTER P. MOORE AND ASSOCIATES IS SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK COMPLETED AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN A MANNER INDICATING THAT THE WORK, WHEN FULLY COMPLETED, WILL BE IN ACCORDANCE WITH THE REPAIR CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

G. MAINTENANCE STATEMENT

- ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO ENSURE STRUCTURAL INTEGRITY AND EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS SUCH AS BUT NOT LIMITED TO PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

PART VI - DRAWING INTERPRETATION

A. DRAWING VIEWS LABELED AS "TYPICAL"

- PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "TYPICAL" AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY SHOWN. THE APPLICABILITY OF THE CONTENT OF THESE VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEWS. SUCH VIEWS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. DECISIONS REGARDING APPLICABILITY OF THESE "TYPICAL" VIEWS SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.

B. STRUCTURAL ABBREVIATIONS, SYMBOLS, AND NOTATIONS

APPROX CONC	APPROXIMATE CONCRETE
CSP	CONCRETE SURFACE PROFILE
EXIST	EXISTING
FV	FIELD VERIFY
MAX	MAXIMUM
MIN	MINIMUM
REINF	REINFORCING
T.I.	TASK ITEM
T.P.	TYPICAL

TASK ITEM	DESCRIPTION
2.1	CONCRETE TOPPING REPAIR
2.3	PARTIAL DEPTH CONCRETE FLOOR REPAIR
2.6	CONCRETE CURB REPAIR
3.1	OVERHEAD SLAB REPAIR
3.5	NON-POST TENSIONED BEAM REPAIR
4.1	CONCRETE WALL REPAIR
4.2	BUMPER WALL REPAIR
5.1	COLUMN REPAIR
7.6	EPOXY INJECTION



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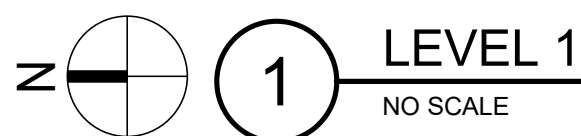
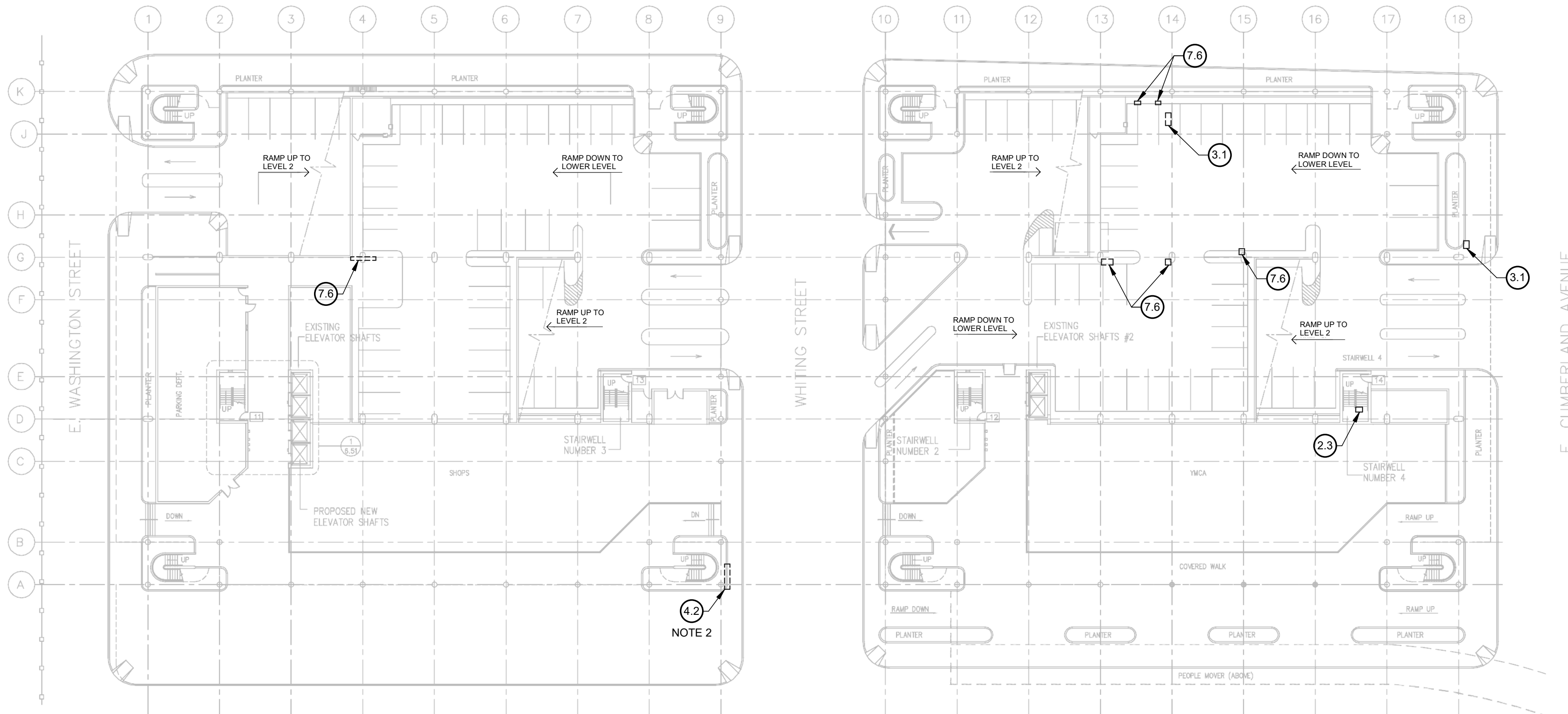
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S1.1

NOTES:

1. RAMP LEVEL BREAK LINE AT GRIDLINE 3, 7, 12, 16, TYP.
2. SEVEN INDIVIDUAL LOCATIONS AT TOP OF BUMPER WALL.
3. GRAY BACKGROUND IMAGE OF GARAGE WAS TAKEN FROM EXISTING BUILDING DRAWINGS AND IS INCLUDED SOLELY FOR THE PURPOSE OF SHOWING LOCATION OF TASK ITEM REPAIRS. NOTES, SECTION CUTS, ETC. ON THE GRAY BACKGROUND ARE NOT APPLICABLE TO THIS PROJECT.



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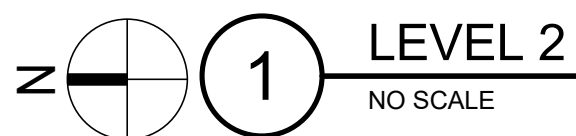
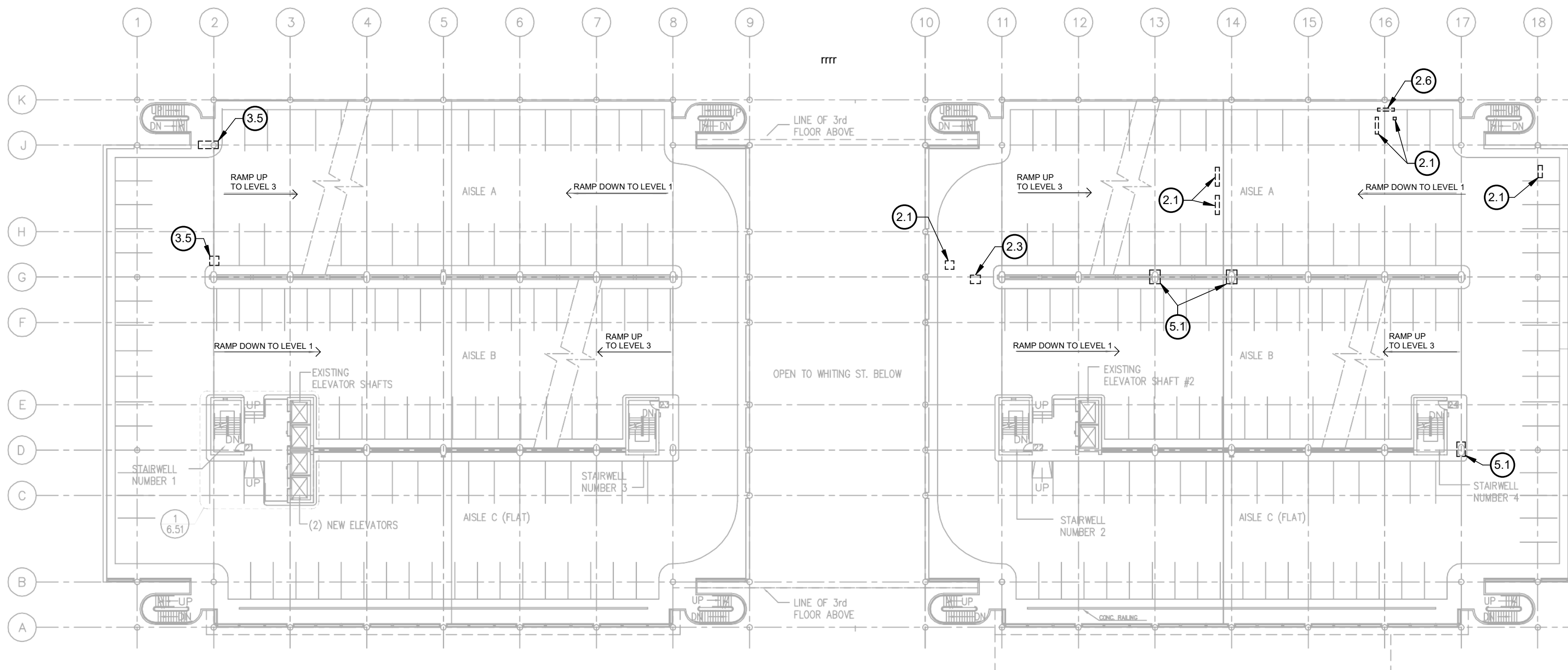
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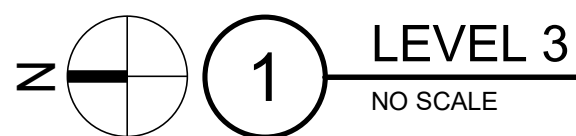
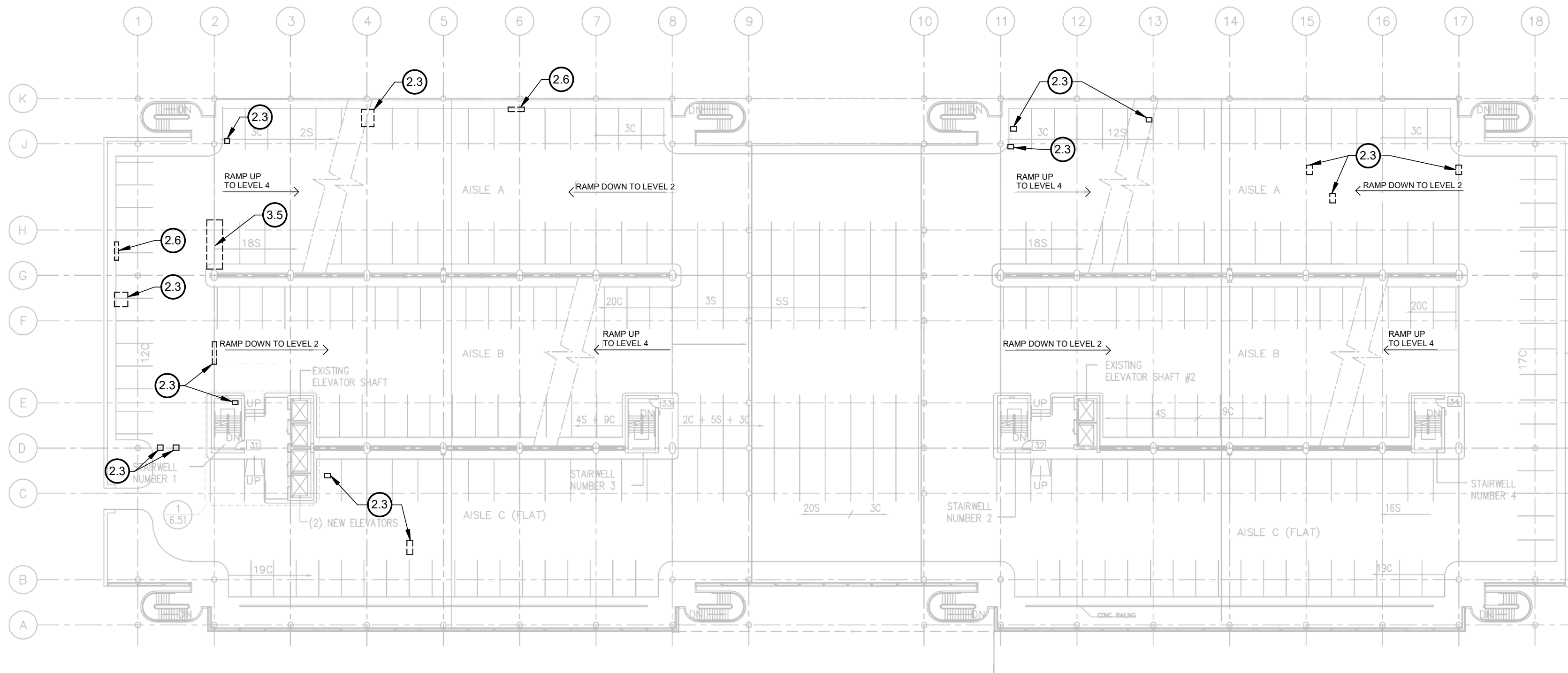
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Bid Set

No.	Date	Description
1	2/3/20	Issued for Owner Review
2	4/3/20	Issued for Bid
3	5/4/20	Issued for Permit

Project Number : D07.19060.00
Approved By : WW

Drawn By : RC
Checked By : YAM

Certification
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
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THE 2017 FLORIDA BUILDING CODE.

Seal and Signature :

E. Webb Wright, P.E.
Professional Engineer No. 57639
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Drawing Title :

PLAN - LEVEL 4

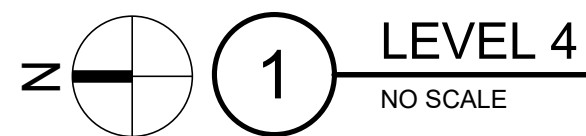
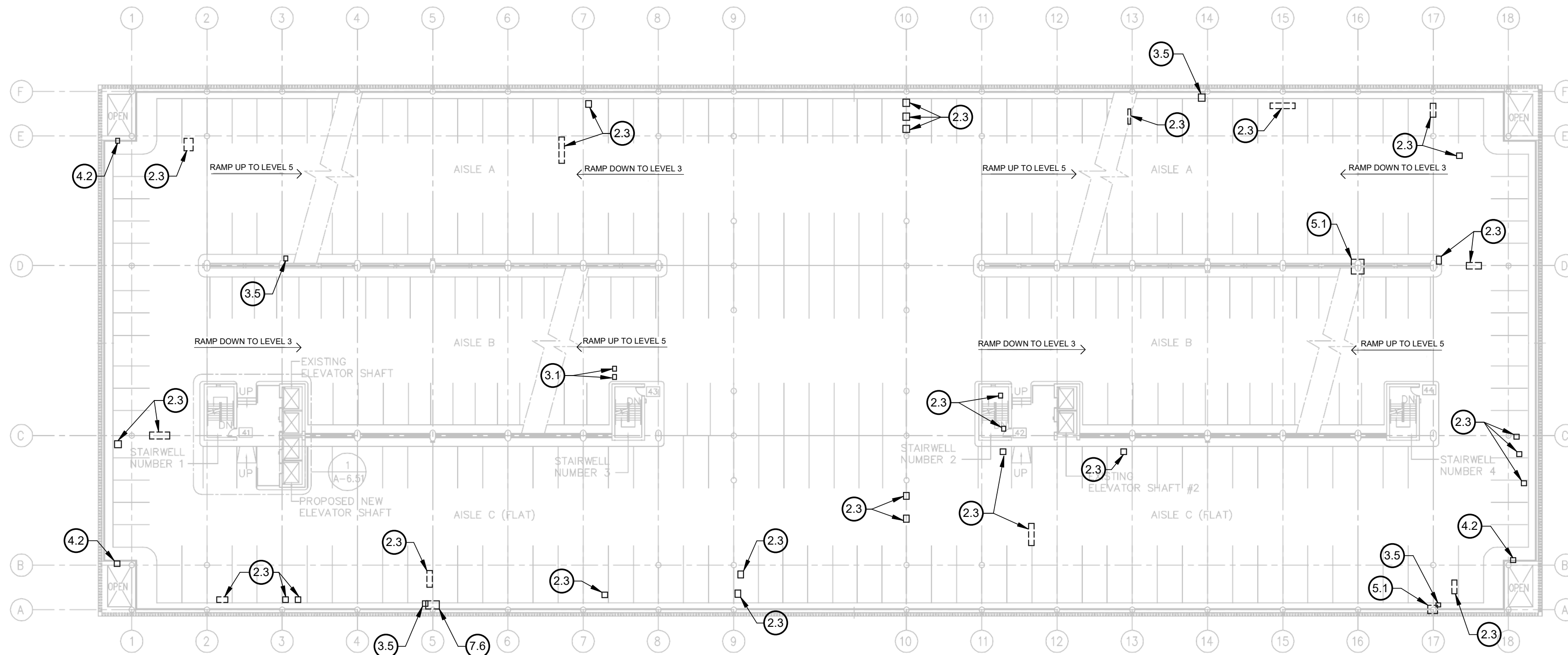
Filename :

Sheet No. :

S1.4

NOTES:

1. RAMP LEVEL BREAK LINE AT GRIDLINE 3, 7, 12, 16, TYP.
2. GRAY BACKGROUND IMAGE OF GARAGE WAS TAKEN FROM EXISTING BUILDING DRAWINGS AND IS INCLUDED SOLELY FOR THE PURPOSE OF SHOWING LOCATION OF TASK ITEM REPAIRS, NOTES, SECTION CUTS, ETC. ON THE GRAY BACKGROUND ARE NOT APPLICABLE TO THIS PROJECT.





Walter P. Moore and Associates, Inc.
300 South Orange, Suite 1200
Orlando, FL 32801

**walter
p moore**

407.418.2218
Certificate of Authorization No. 3818

Project Name:

**WO 2 FORT BROOKE
PARKING GARAGE HIGH
PRIORITY REPAIRS**

Client :

CITY OF TAMPA

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Drawing Title :

PLAN - LEVEL 5

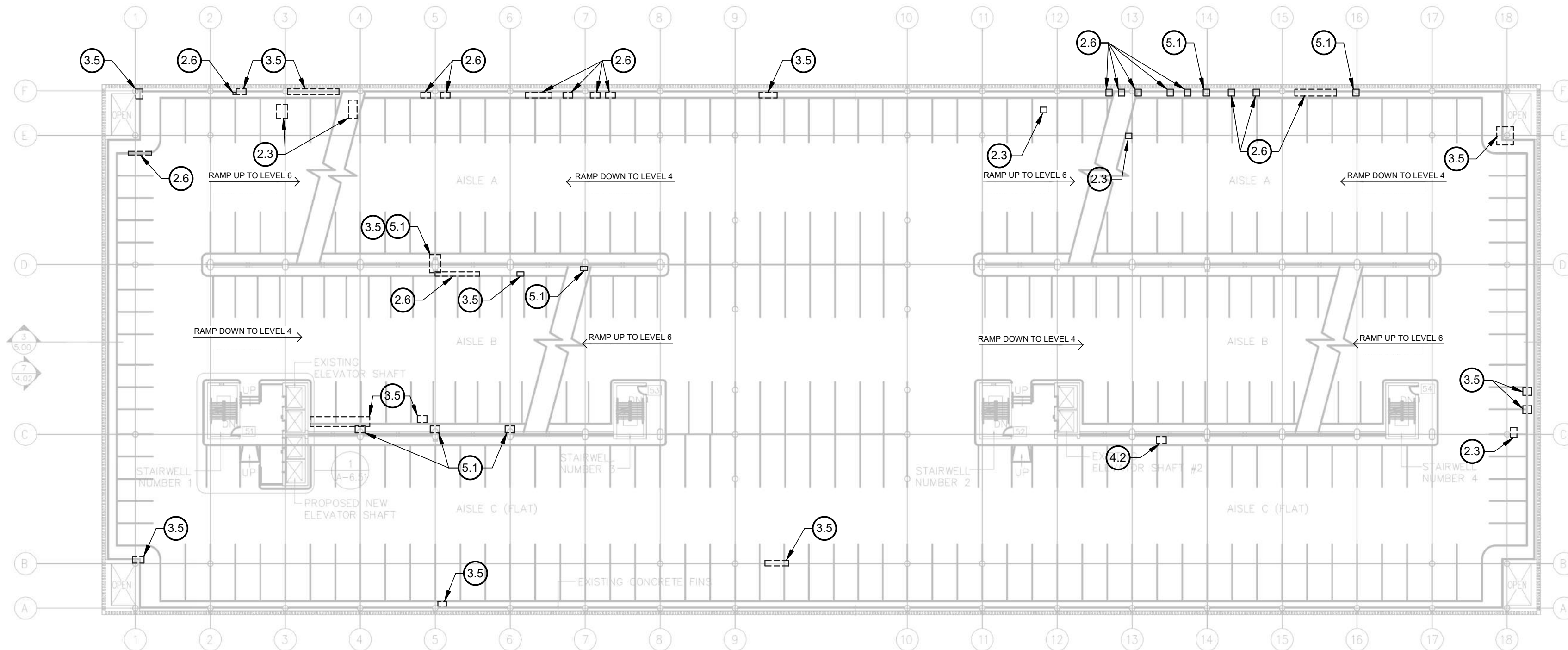
Filename :

Sheet No. :

S1.5

NOTES:

1. RAMP LEVEL BREAK LINE AT GRIDLINE 3, 7, 12, 16, TYP.
2. GRAY BACKGROUND IMAGE OF GARAGE WAS TAKEN FROM EXISTING BUILDING DRAWINGS AND IS INCLUDED SOLELY FOR THE PURPOSE OF SHOWING LOCATION OF TASK ITEM REPAIRS, NOTES, SECTION CUTS, ETC. ON THE GRAY BACKGROUND ARE NOT APPLICABLE TO THIS PROJECT.



1 LEVEL 5
NO SCALE

\\ORL-SERVER\Projects\2019\19060-00 COT Ft. Brooke PG High Priority WO2\3-Documentation\Drawings\Revit Structure\07-19060-00 COT Ft-Brooke PG-Rv-20200123.rvt



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Drawing Title :

PLAN - LEVEL 6

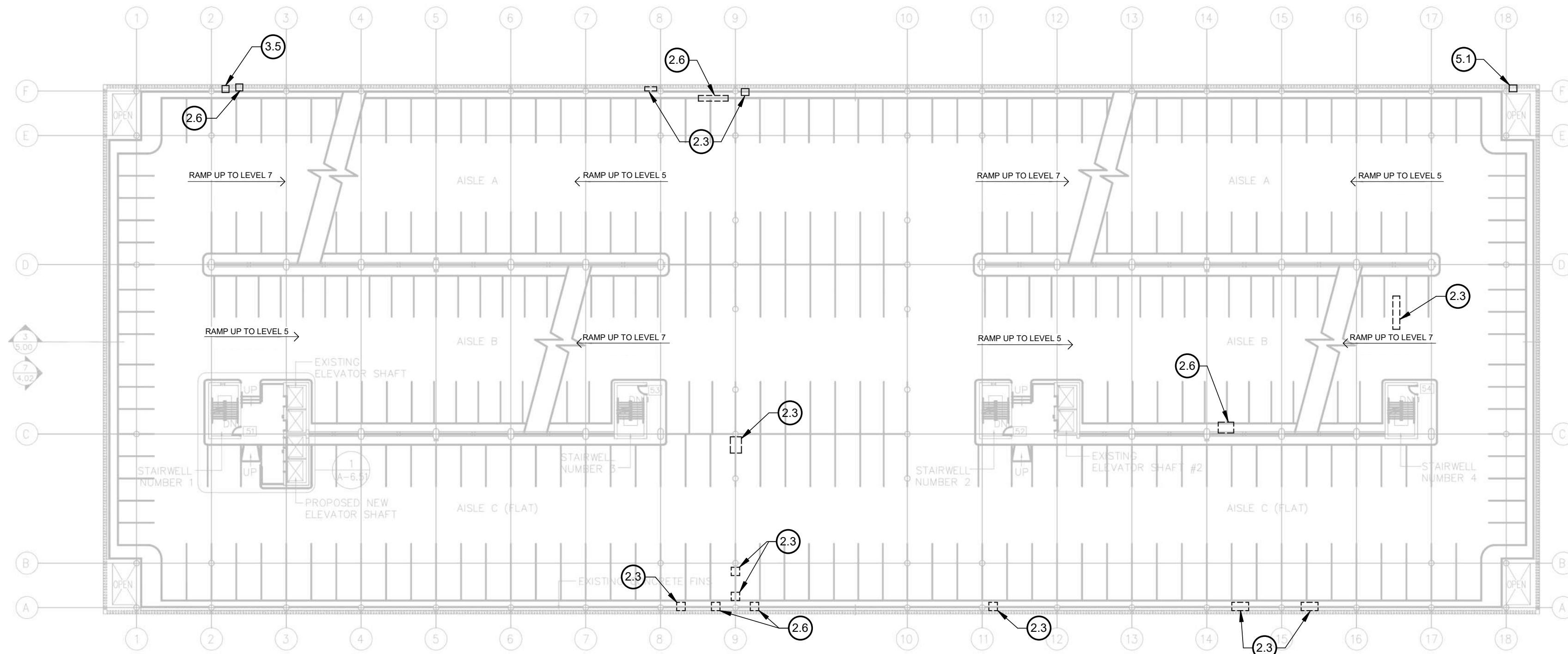
Filename :

Sheet No. :

S1.6

NOTES:

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1 LEVEL 6
NO SCALE



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Drawing Title :

PLAN - LEVEL 7

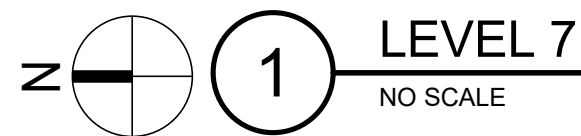
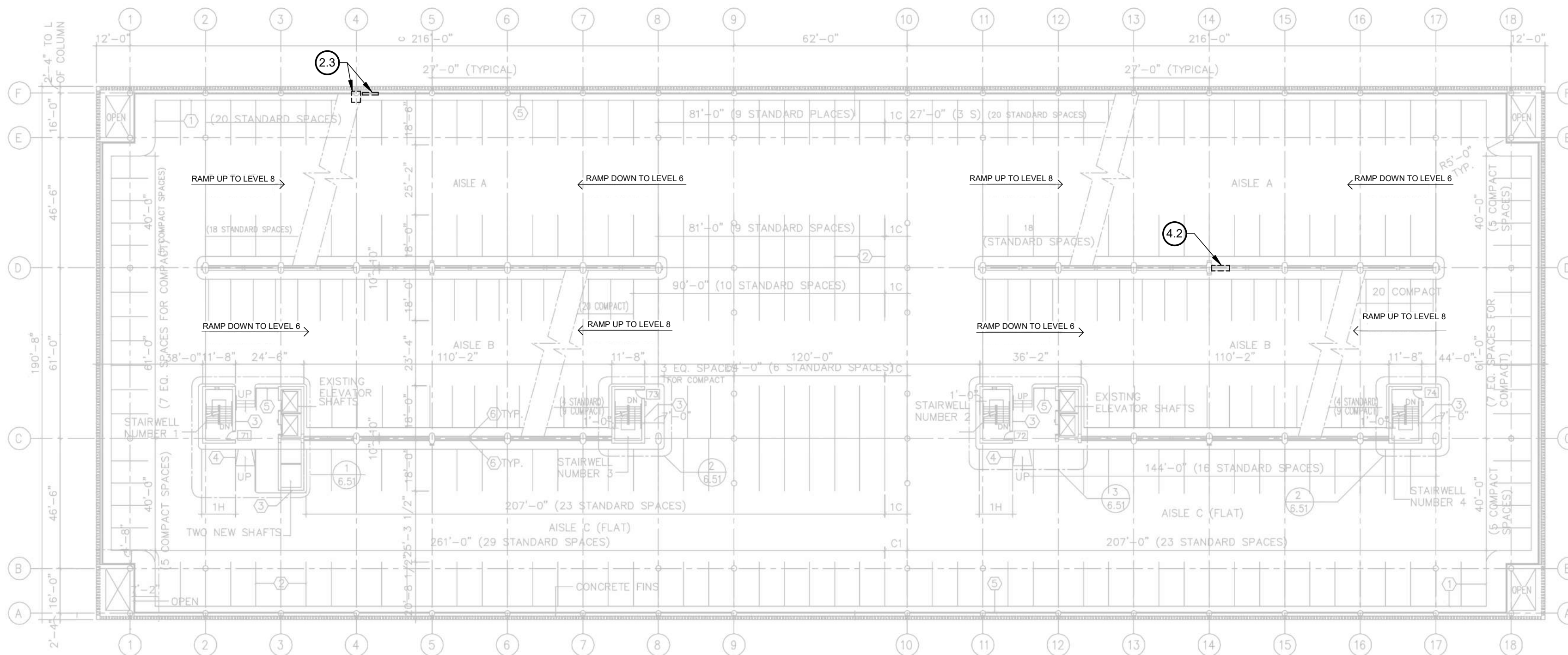
Filename :

Sheet No. :

S1.7

NOTES:

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2. GRAY BACKGROUND IMAGE OF GARAGE WAS TAKEN FROM EXISTING BUILDING DRAWINGS AND IS INCLUDED SOLELY FOR THE PURPOSE OF SHOWING LOCATION OF TASK ITEM REPAIRS, NOTES, SECTION CUTS, ETC. ON THE GRAY BACKGROUND ARE NOT APPLICABLE TO THIS PROJECT.





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Drawing Title :

PLAN - LEVEL 8

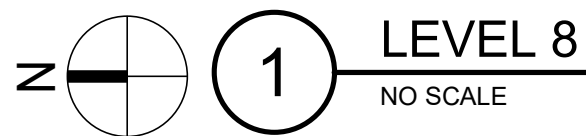
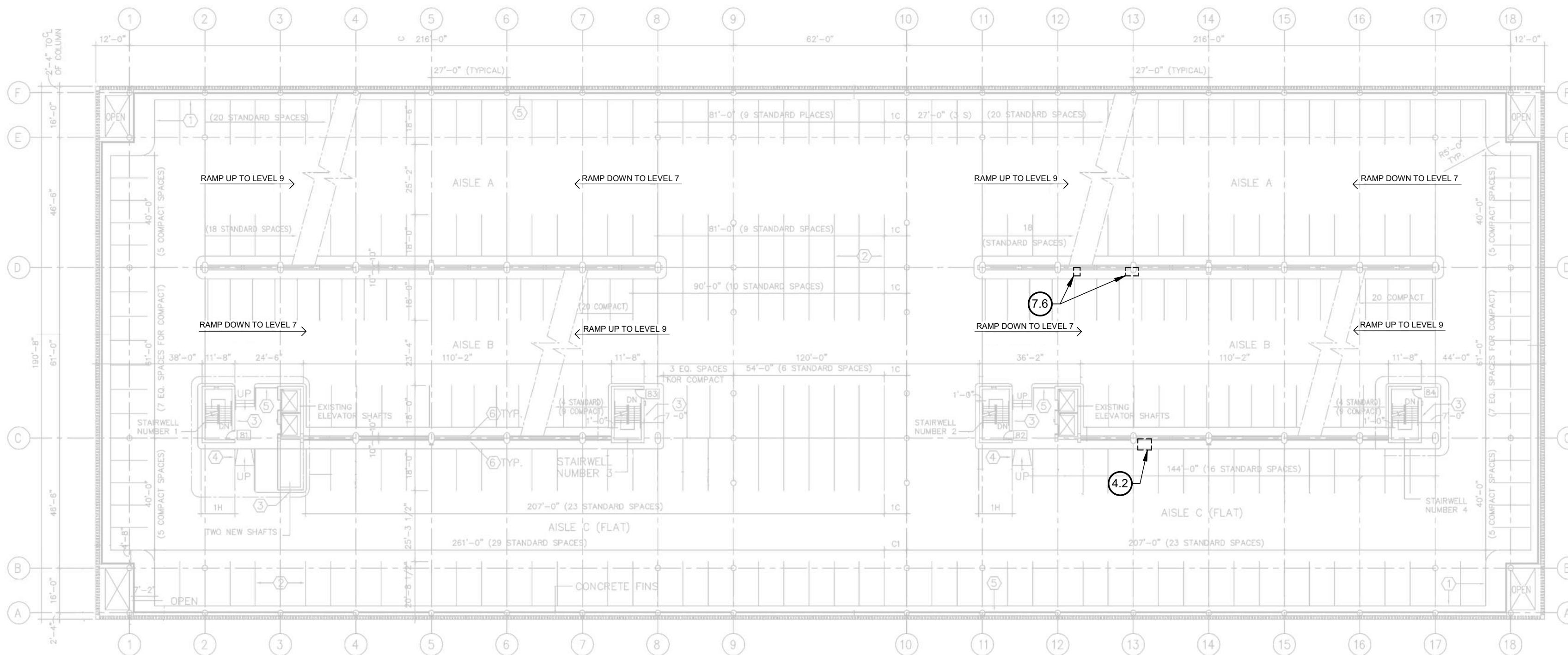
Filename :

Sheet No. :

S1.8

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Drawing Title :

PLAN - LEVEL 9

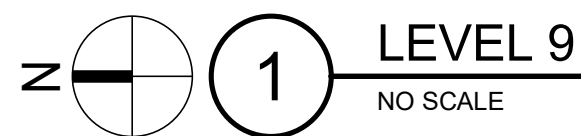
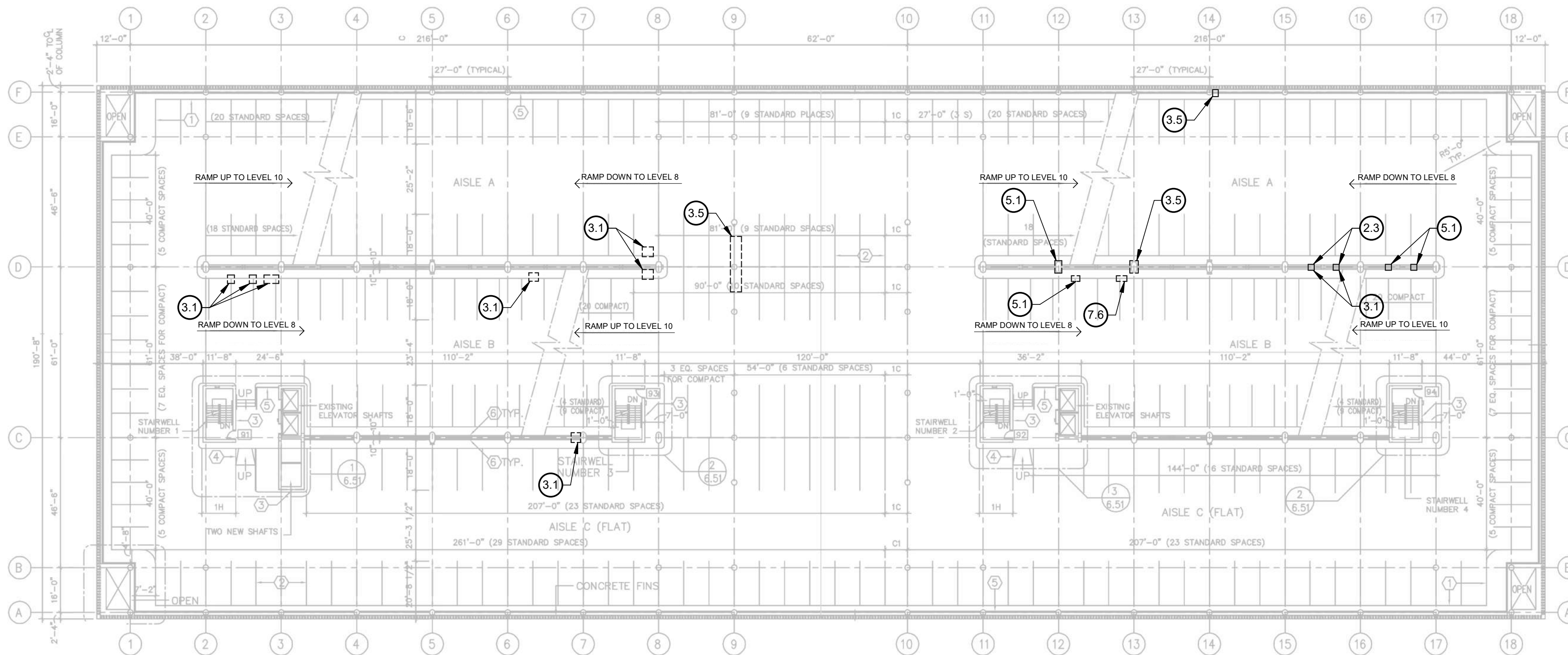
Filename :

Sheet No. :

S1.9

NOTES:

1. RAMP LEVEL BREAK LINE AT GRIDLINE 3, 7, 12, 16, TYP.
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Orlando, FL 32801

**walter
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407.418.2218
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Drawing Title :

PLAN - LEVEL 10

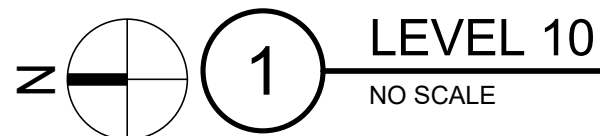
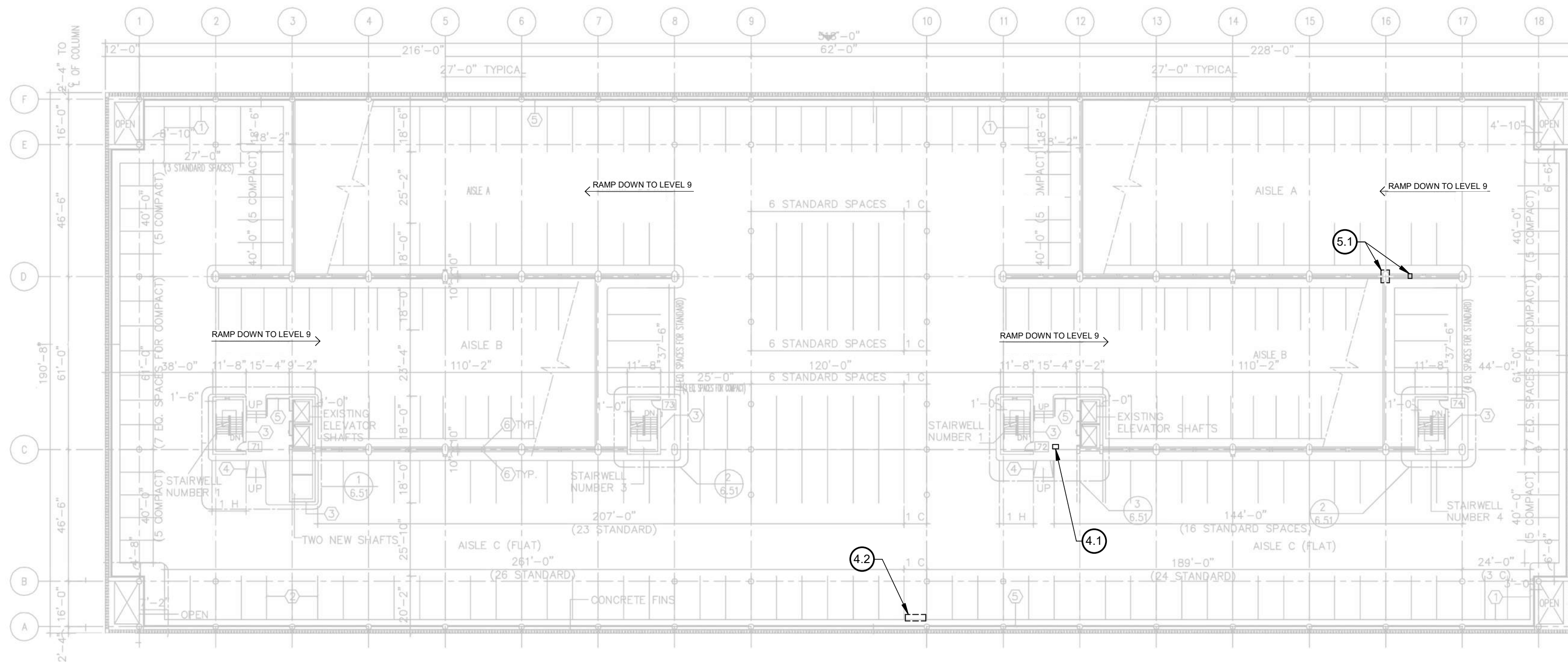
Filename :

Sheet No. :

S1.10

NOTES:

1. RAMP LEVEL BREAK LINE AT GRIDLINE 3, 7, 12, 16, TYP.
2. GRAY BACKGROUND IMAGE OF GARAGE WAS TAKEN FROM EXISTING BUILDING DRAWINGS AND IS INCLUDED SOLELY FOR THE PURPOSE OF SHOWING LOCATION OF TASK ITEM REPAIRS, NOTES, SECTION CUTS, ETC. ON THE GRAY BACKGROUND ARE NOT APPLICABLE TO THIS PROJECT.





Project Name:

WO 2 FORT BROOKE PARKING GARAGE HIGH PRIORITY REPAIRS

Client :

CITY OF TAMPA

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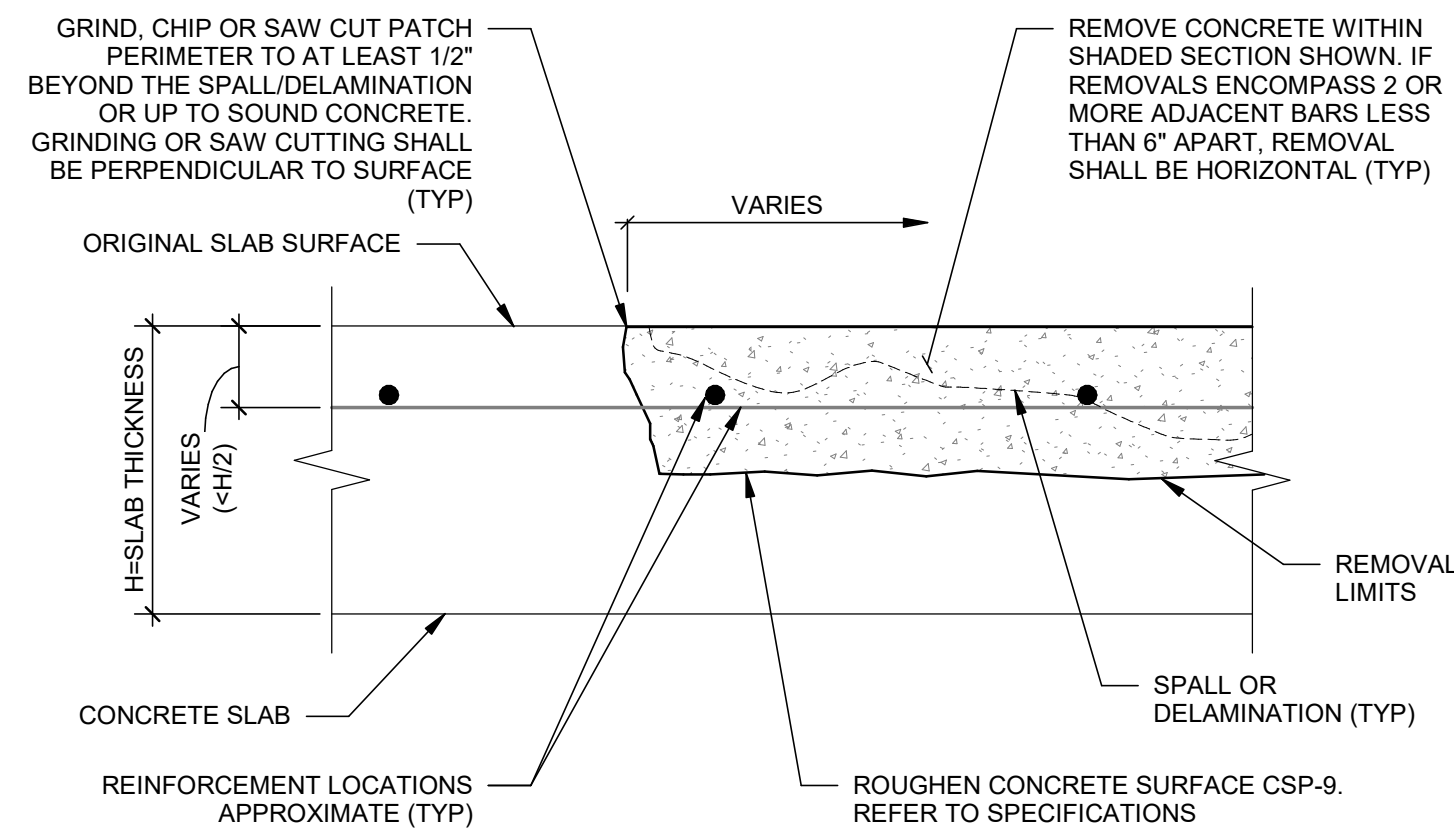
Drawing Title :

DETAILS

Filename :

Sheet No. :

S2.0



CAUTION:

1. SLAB MAY HAVE EMBEDDED ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.

NOTES:

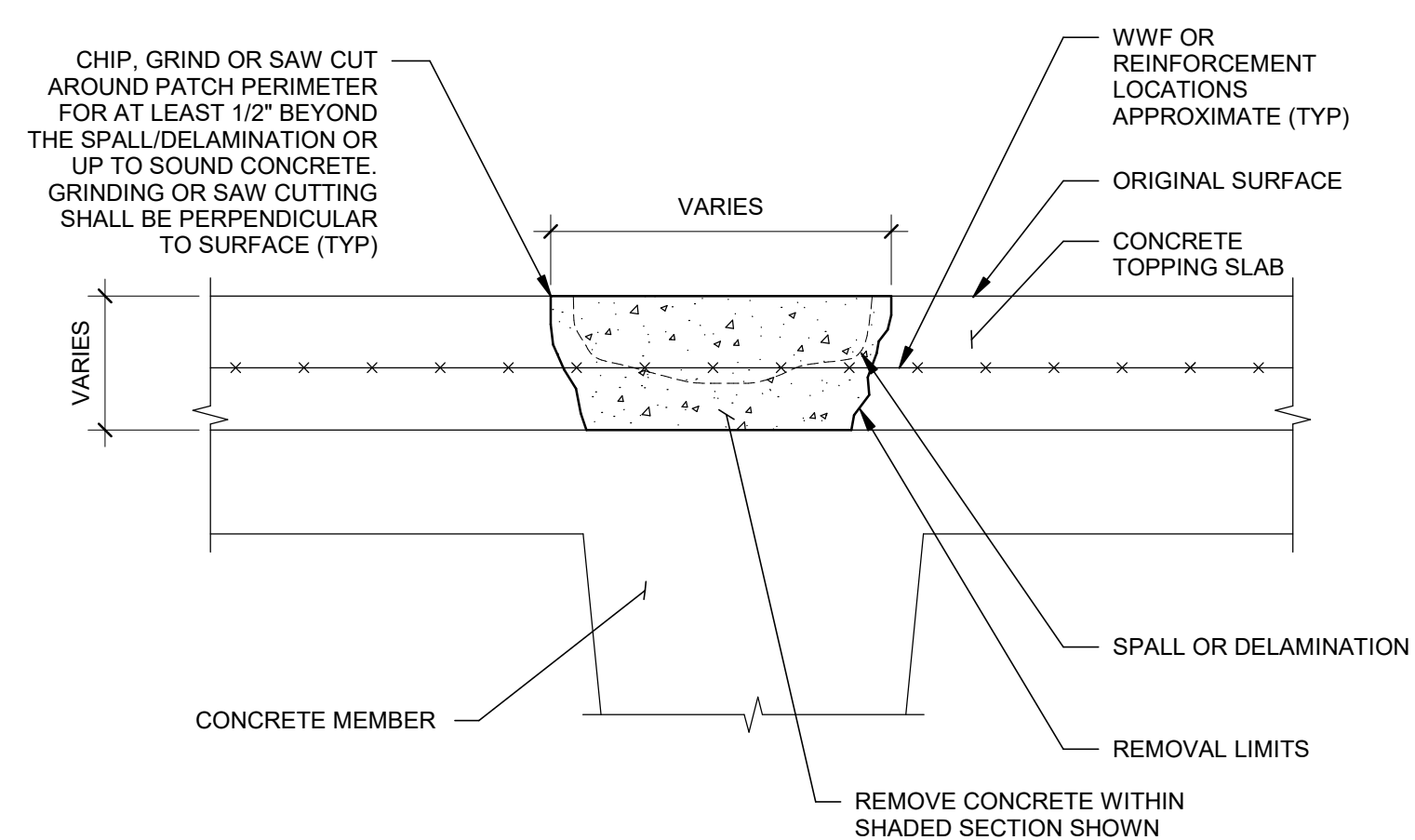
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
5. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.
6. NEW PATCH SHALL MATCH EXISTING FINISH.

TYPICAL - CONCRETE FLOOR REPAIR - PARTIAL DEPTH NON POST-TENSIONED SLABS

2

NO SCALE

(TASK ITEM 2.3)



NOTES:

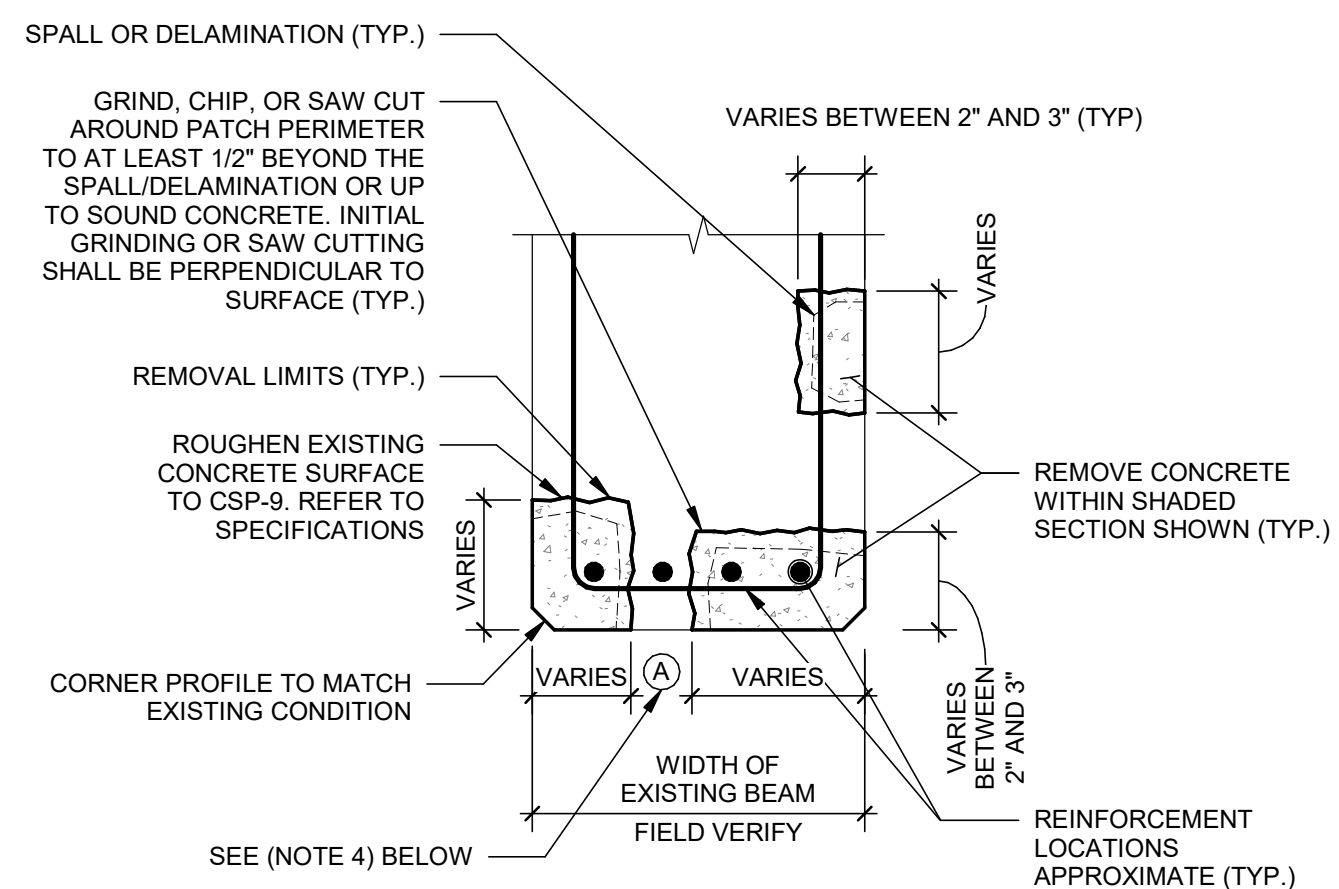
1. PROTECT EXISTING WWF OR REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAWCUTTING.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
5. NEW PATCH SHALL MATCH EXISTING FINISH.
6. TERM "REINFORCEMENT" SHALL MEAN REINFORCING BARS OR WELDED WIRE FABRIC (WWF).

TYPICAL - CONCRETE TOPPING SLAB REPAIR

1

NO SCALE

(TASK ITEM 2.1)



NOTES:

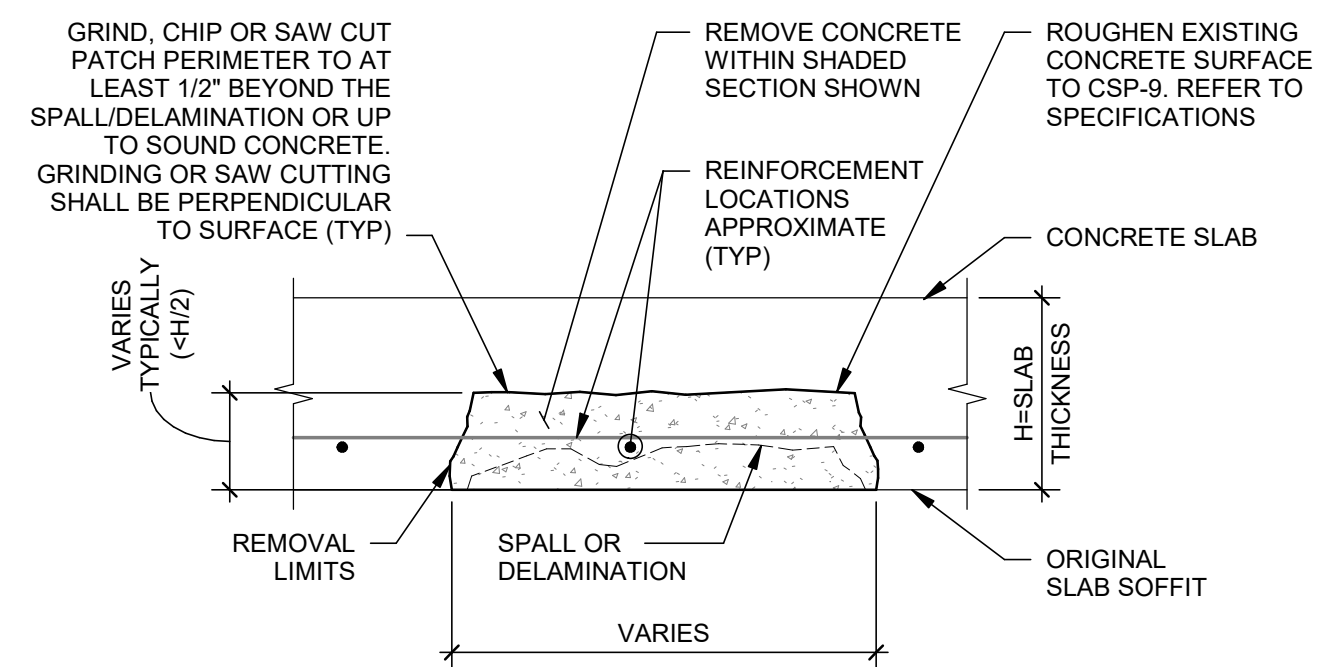
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. WHERE DIMENSION "A" SHOWN IN DETAIL IS 4" OR LESS, THEN REPAIR ENTIRE WIDTH OF BEAM.
5. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
6. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.

TYPICAL - CONCRETE BEAM REPAIR (NON POST-TENSIONED BEAMS)

4

NO SCALE

(TASK ITEM 3.5)



CAUTION:

1. SLAB MAY HAVE EMBEDDED ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.

NOTES:

1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR. USE NON-DESTRUCTIVE TECHNIQUES TO VERIFY LOCATION OF ELECTRICAL CONDUIT. DO NOT CUT OR DAMAGE ELECTRICAL CONDUIT.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" SPECIFICATIONS FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
5. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.
6. NEW PATCH SHALL MATCH EXISTING FINISH.

TYPICAL - SLAB REPAIR OVERHEAD - PARTIAL DEPTH NON POST-TENSIONED SLABS

3

NO SCALE

(TASK ITEM 3.1)



Project Name:

**WO 2 FORT BROOKE
PARKING GARAGE HIGH
PRIORITY REPAIRS**

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CITY OF TAMPA

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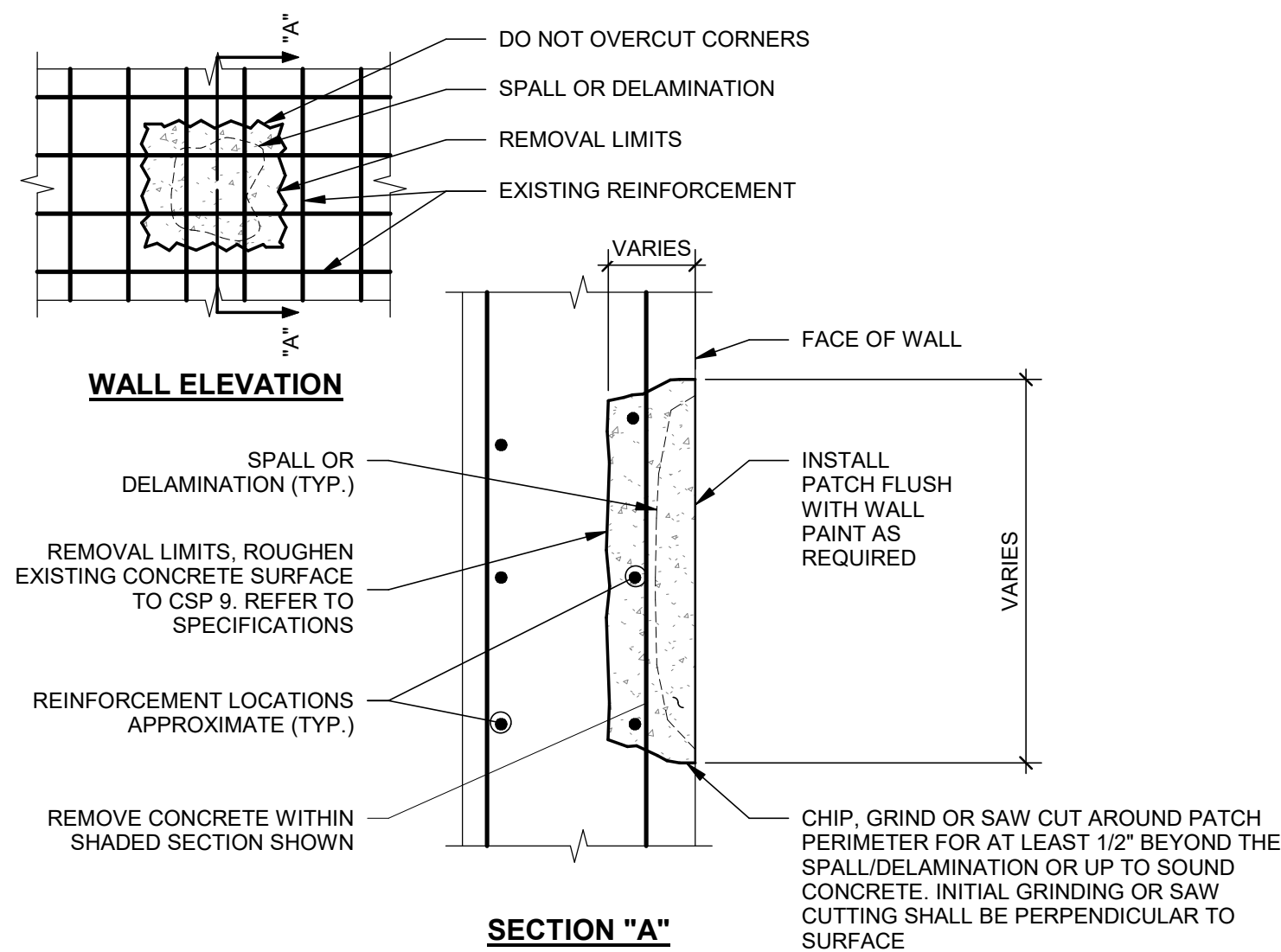
Drawing Title :

DETAILS

Filename :

Sheet No. :

S2.1



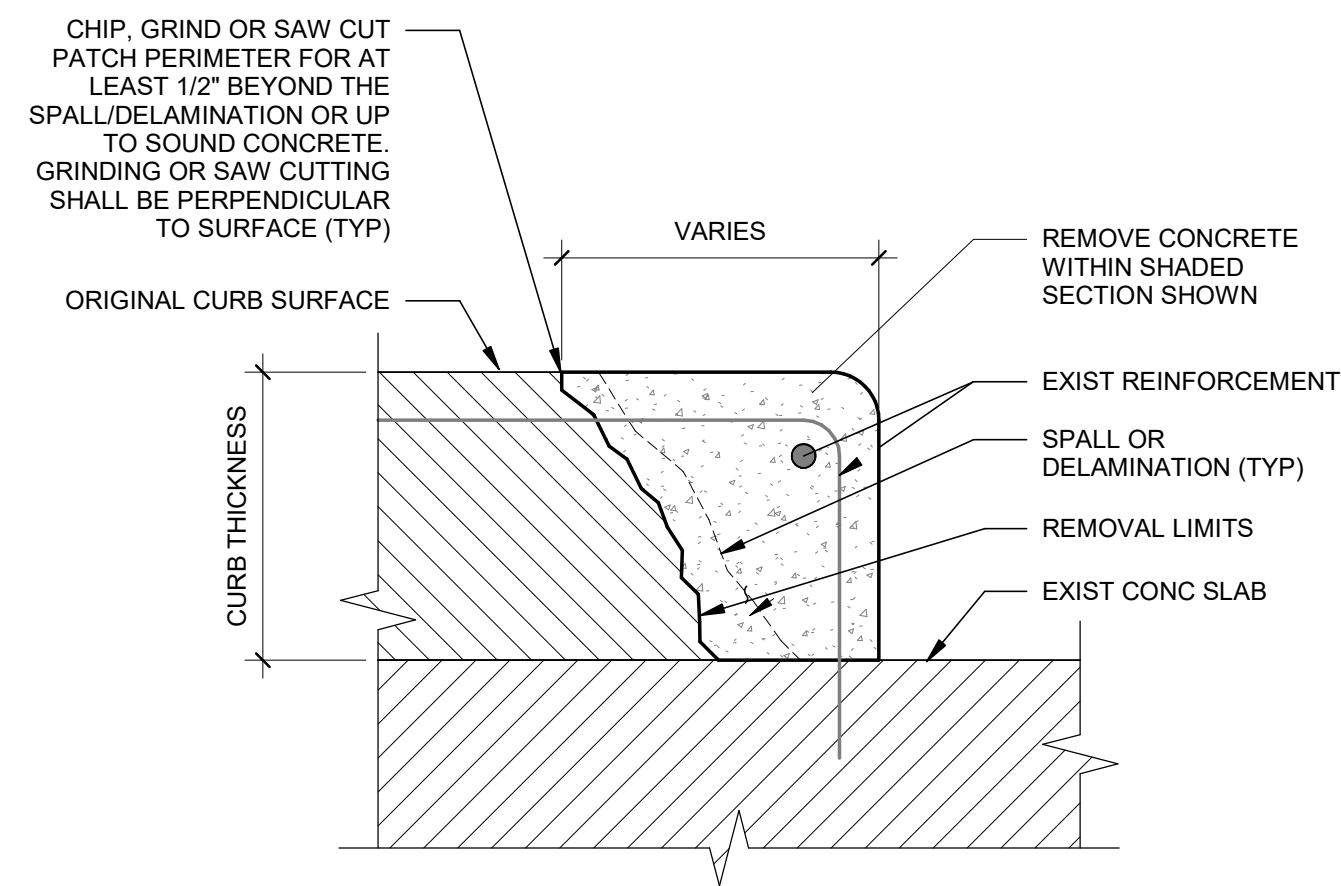
- NOTES:
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 2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
 3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
 4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
 5. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.
 6. NEW PATCH SHALL MATCH EXISTING FINISH.

2 TYPICAL - CONCRETE WALL REPAIR
NO SCALE (TASK ITEM 4.1, 4.2)



- NOTE:
1. REFER TO TASK ITEM 4.2 IN SECTION 01 10 00 AND DETAIL 1/S2.1 FOR REPAIR SCOPE OF WORK, MATERIALS, AND EXECUTION.

3 TYPICAL PHOTO - BUMPER WALL REPAIR
NO SCALE (TASK ITEM 4.2)



- NOTES:
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 5. NEW PATCH SHALL MATCH EXISTING FINISH. PAINT PATCH TO MATCH EXISTING COLOR.

1 TYPICAL - CONCRETE CURB REPLACEMENT
NO SCALE (TASK ITEM 2.6)



Project Name:

WO 2 FORT BROOKE PARKING GARAGE HIGH PRIORITY REPAIRS

Client :

CITY OF TAMPA

Issues/Revisions :

Bid Set

No.	Date	Description
1	2/3/20	Issued for Owner Review
2	4/3/20	Issued for Bid
3	5/4/20	Issued for Permit

Project Number : D07.19060.00
 Drawn By : RC
 Approved By : WW
 Checked By : YAM

Certification
 TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
 THE PLANS AND SPECIFICATIONS COMPLY WITH
 THE 2017 FLORIDA BUILDING CODE.

Seal and Signature :

E. Webb Wright, P.E.
 Professional Engineer No. 57639
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Drawing Title :

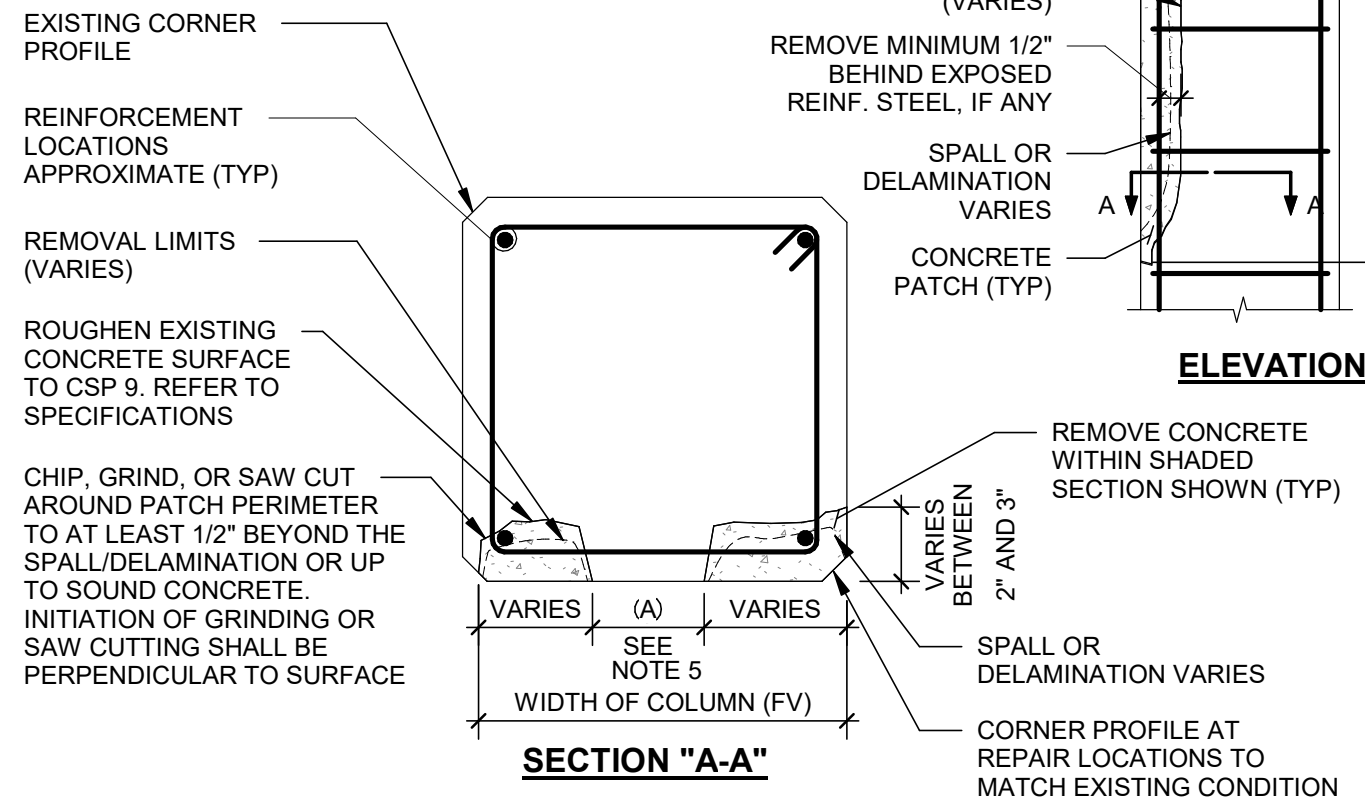
DETAILS

Filename :

Sheet No. :

S2.2

NOTE:
DO NOT CUT EXISTING REBAR.

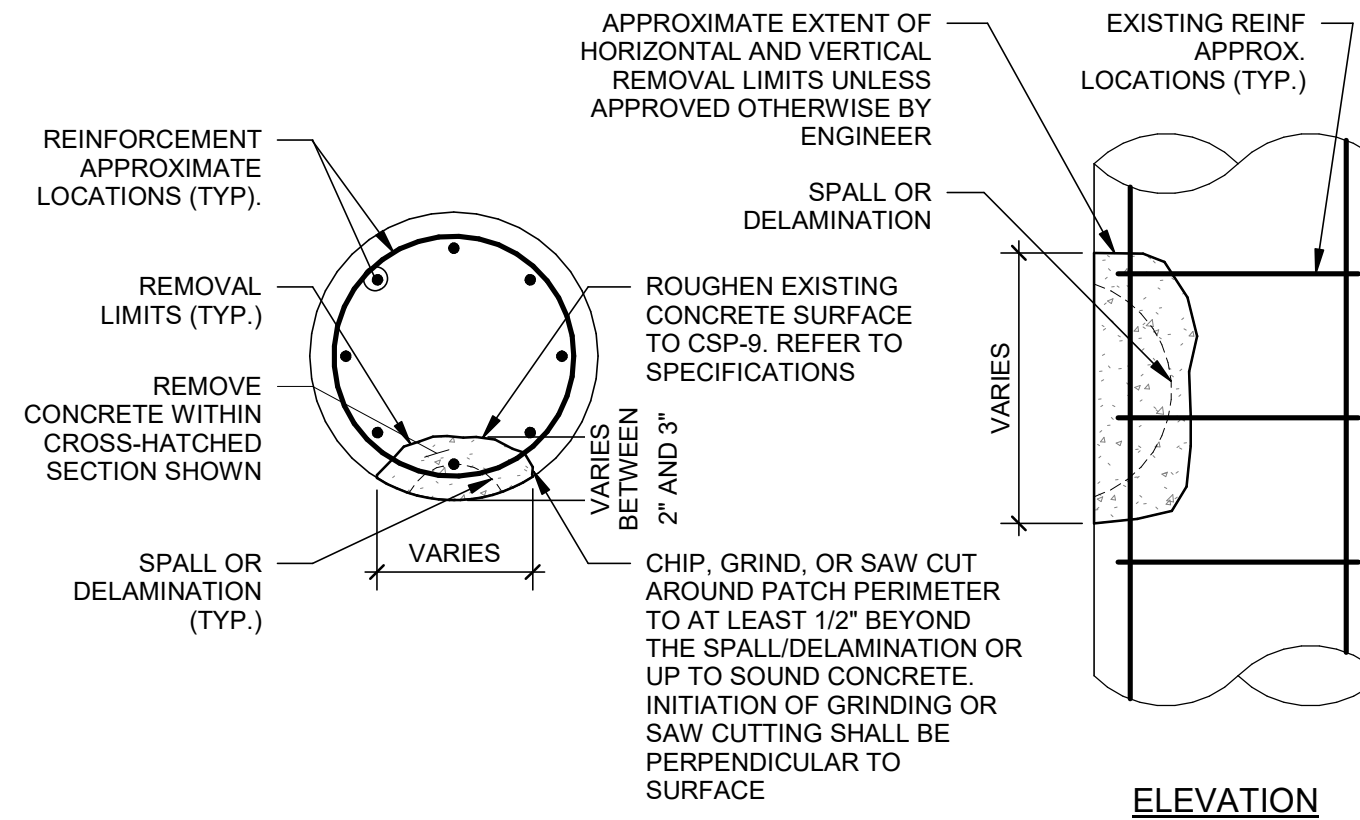


NOTES:

1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT.
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
5. WHERE DIMENSION "A" SHOWN IN DETAIL IS 4" OR LESS, THEN REPAIR ENTIRE WIDTH OF COLUMN.

2 TYPICAL - COLUMN REPAIR - RECTANGULAR

NO SCALE (TASK ITEM 5.1)



NOTES:

1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT. FINAL SURFACE PREPARATION SHALL BE ABRASIVE BLAST.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING."
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.

1 TYPICAL - COLUMN REPAIR - CIRCULAR

NO SCALE (TASK ITEM 5.1)



TYPICAL EXISTING CONDITION AT COLUMN

3 EPOXY INJECTION

NO SCALE (TASK ITEM 7.6)

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