

2 SPALL CONCRETE PARCIAL

3 PATCHING TO BE REPAIR

4 HONEYCOMB.



KEY PLAN

CONSULTING ENGINEER

ALIOSKAR GANEM P.E. FL. LIC. No. 74745

PROJECT NAME:

CONCRETE RESTORATION

PROJECT ADDRESS:

250 174th ST, SUNNY ISLES BEACH
33160 Florida.

REVISIONS DATE

Project No: Scale:

**AS NOTED** 

Date: Drawn:

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CAD File:

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Drawing Title:

GROUND FLOOR COLUMNS

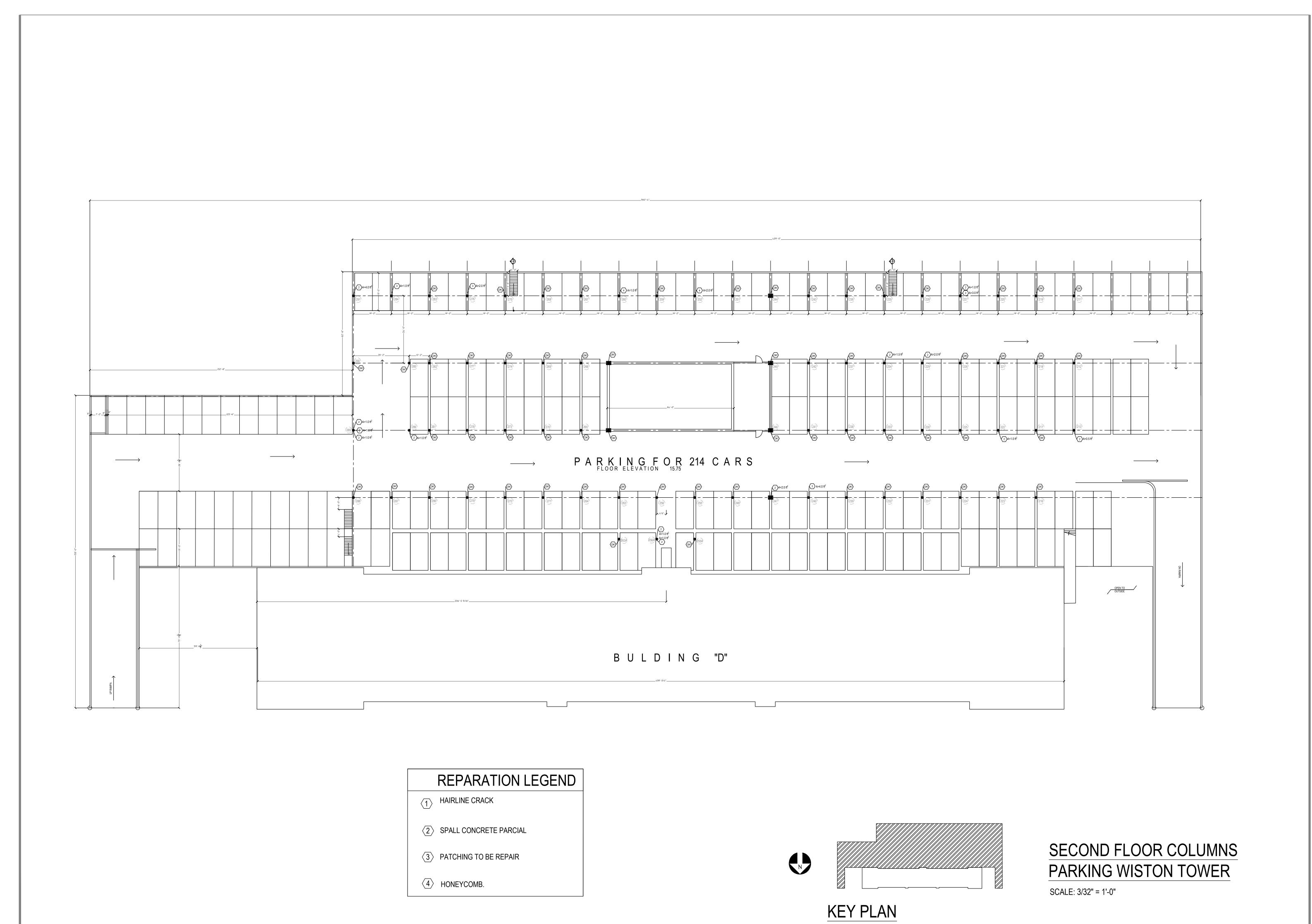
PARKING WISTON TOWER

SCALE: 3/32" = 1'-0"

KEY PLAN

S-1

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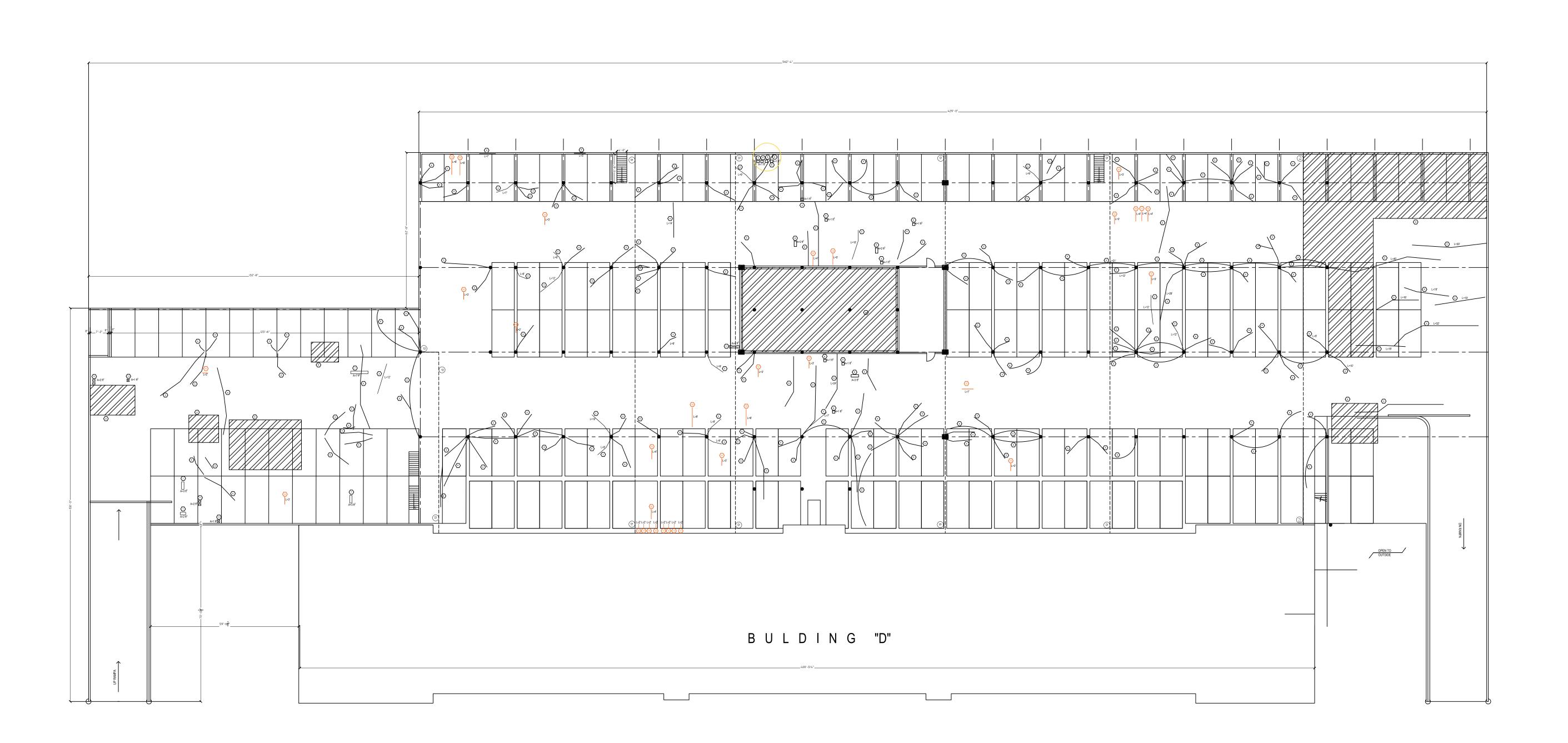
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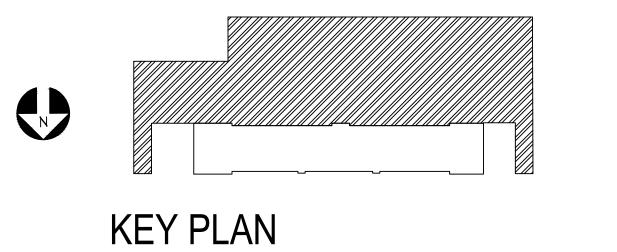
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### 



### GROUND FLOOR OVERHEAD PARKING WISTON TOWER

SCALE: 3/32" = 1'-0"

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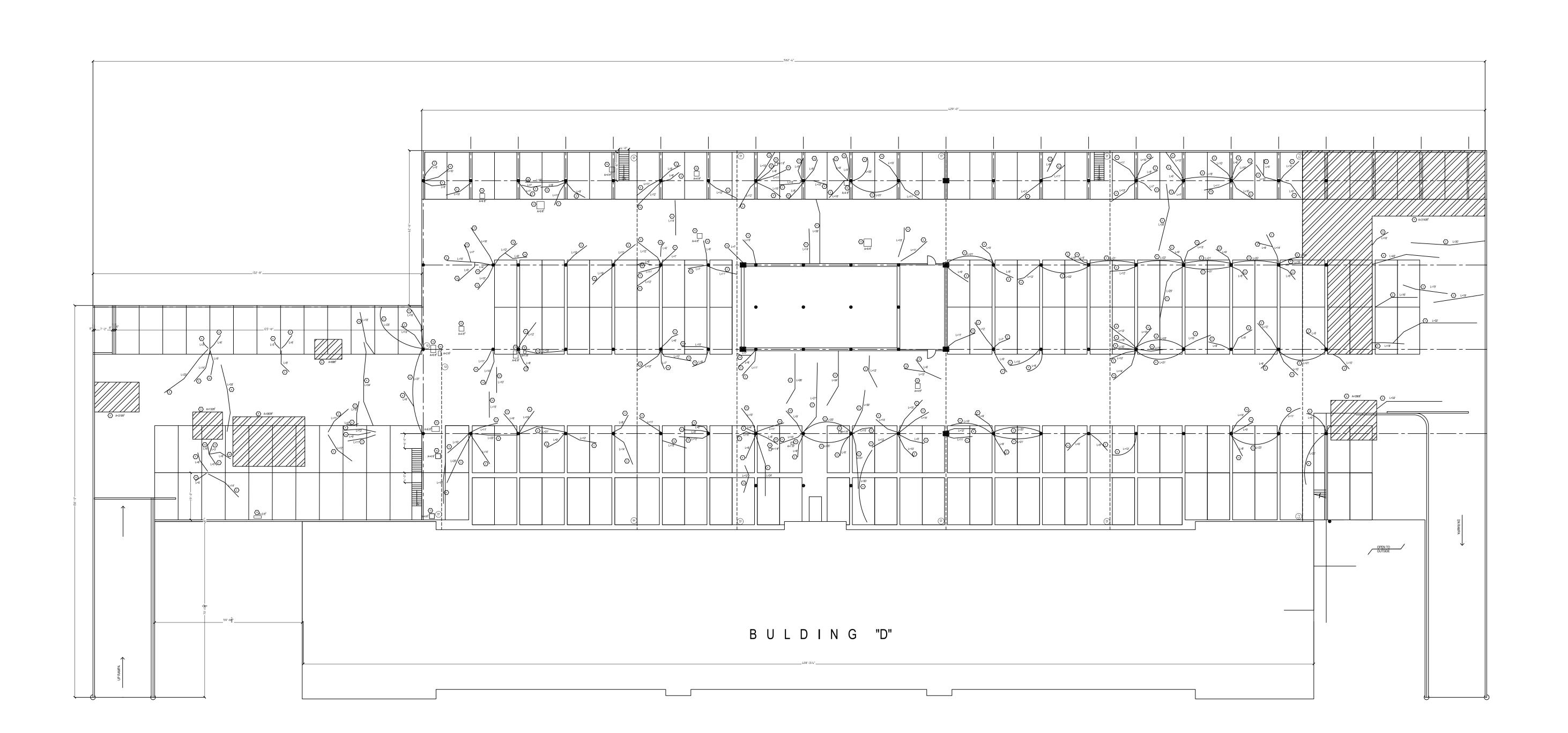
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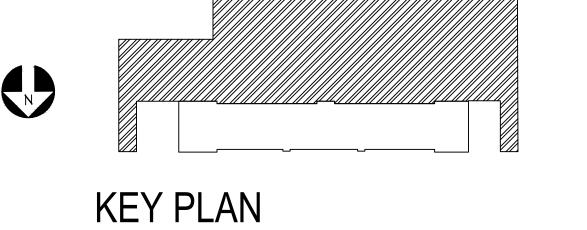
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S-3



### REPARATION LEGEND

- 5 HAIRLINE CRACK SLAB OVERHEAD PARTIAL DEPTH
- 6 HAIRLINE CRACK SLAB FULL DEPTH
- 7 PARTIAL DEPTH SPALLED CONCRETE
- 8 FULL DEPTH CONCRETE REPAIR SLAB
- 9 EDGE RAPAIR
- JOIST REPAIR
- 11 ⋈ BEAM REPAIR
- (12)--- COLD JOINT
- (13)--- EXPANSION JOINT
- 14 HAIRLINE CRACK ON SLAB PARTIAL DEPTH
- 15 ☐ PARTIAL DEPTH SPALLED CONCRETE



SECOND FLOOR BOTTON PARKING WISTON TOWER

SCALE: 3/32" = 1'-0"

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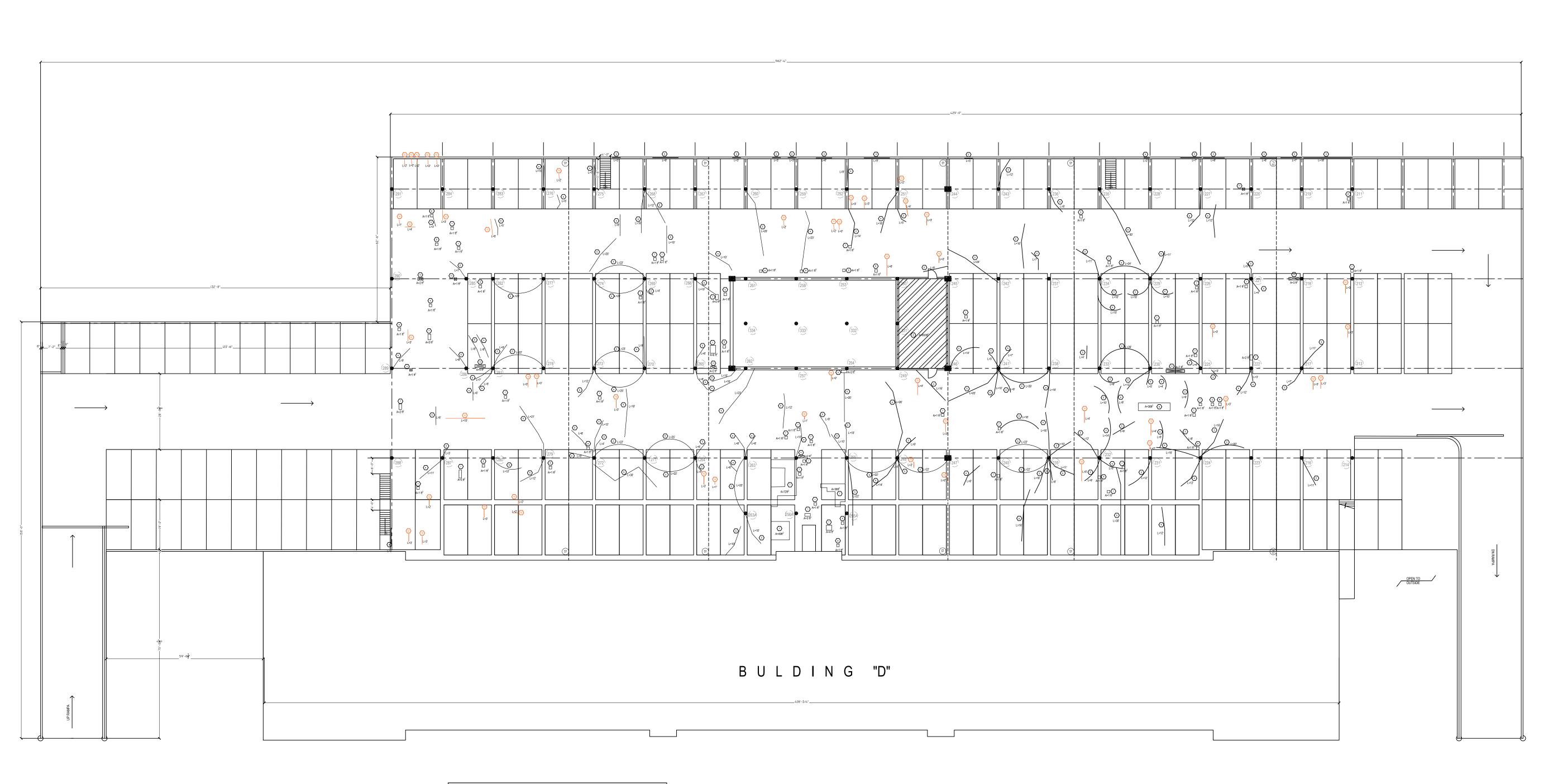
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### REPARATION LEGEND

HAIRLINE CRACK SLAB OVERHEAD PARTIAL DEPTH

6 HAIRLINE CRACK SLAB FULL DEPTH

7 PARTIAL DEPTH SPALLED CONCRETE

8 FULL DEPTH CONCRETE REPAIR SLAB

9 EDGE RAPAIR

JOIST REPAIR

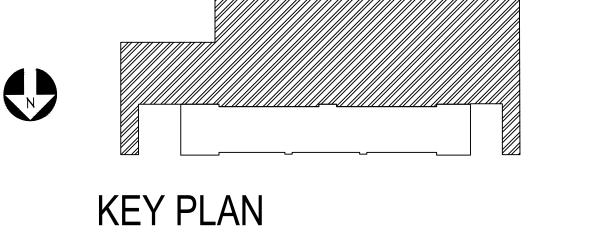
11 ⋈ BEAM REPAIR

12 --- COLD JOINT

(13)--- EXPANSION JOINT

14 HAIRLINE CRACK ON SLAB PARTIAL DEPTH

15 ☐ PARTIAL DEPTH SPALLED CONCRETE



### SECOND FLOOR OVERHEAD PARKING WISTON TOWER

SCALE: 3/32" = 1'-0"

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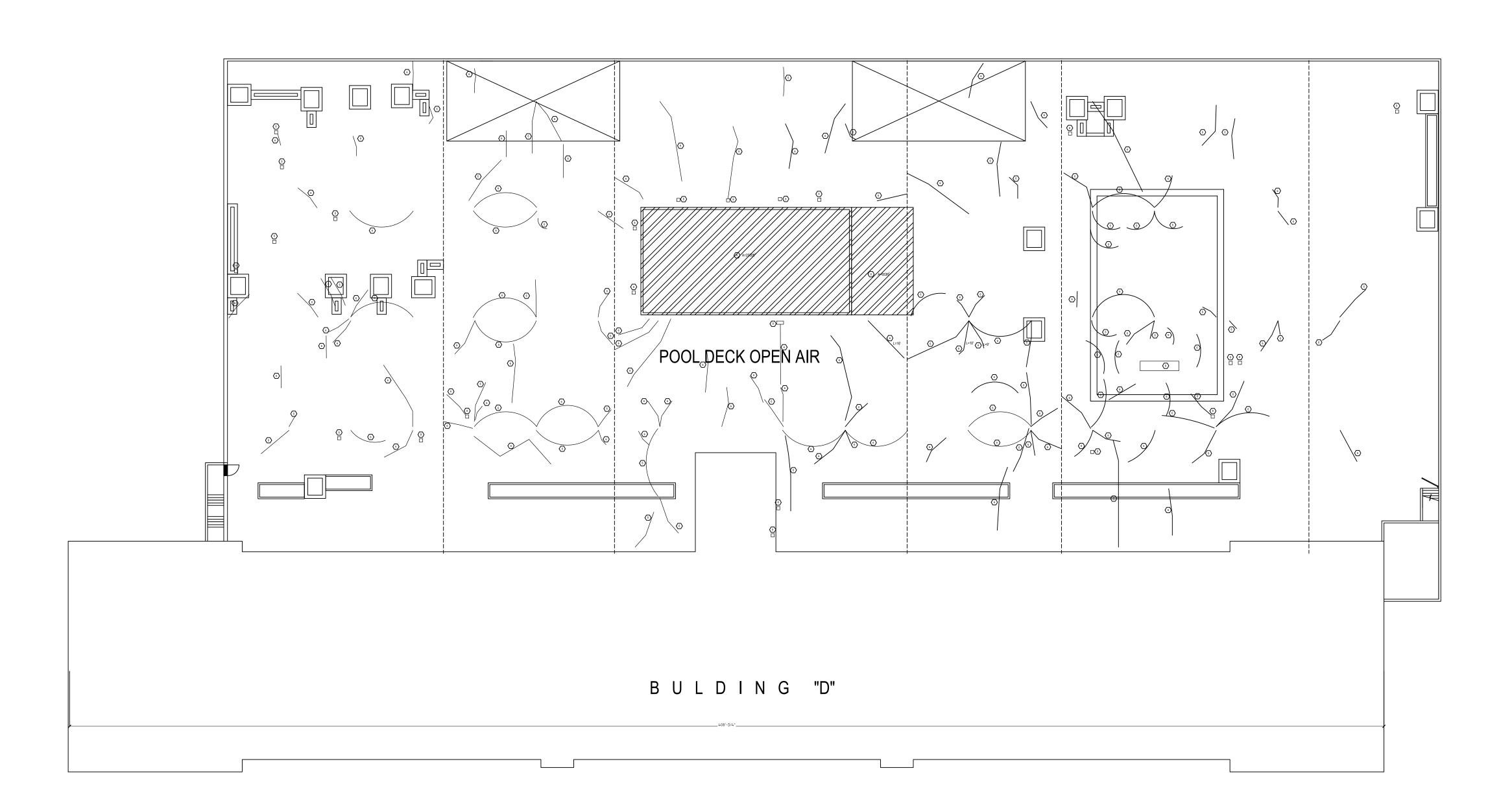
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### HAIRLINE CRACK SLAB OVERHEAD PARTIAL DEPTH HAIRLINE CRACK SLAB FULL DEPTH PARTIAL DEPTH SPALLED CONCRETE OVERHEAD FULL DEPTH CONCRETE REPAIR SLAB DEDGE RAPAIR

REPARATION LEGEND

JOIST REPAIR

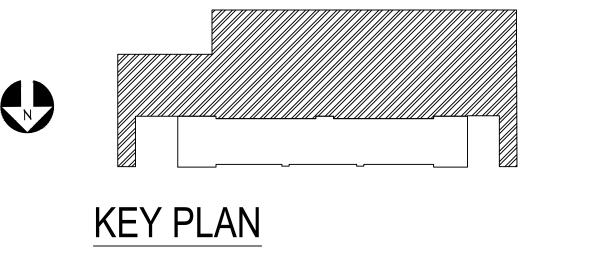
□ BEAM REPAIR

12 --- COLD JOINT

(13)--- EXPANSION JOINT

HAIRLINE CRACK ON SLAB PARTIAL DEPTH

PARTIAL DEPTH SPALLED CONCRETE

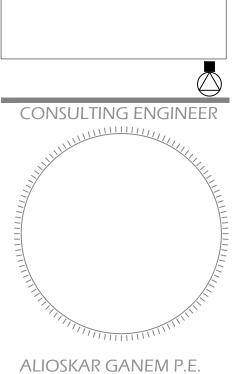


### THIRD FLOOR POOL DECK BOTTON PARKING WISTON TOWER

SCALE: 3/32" = 1'-0"

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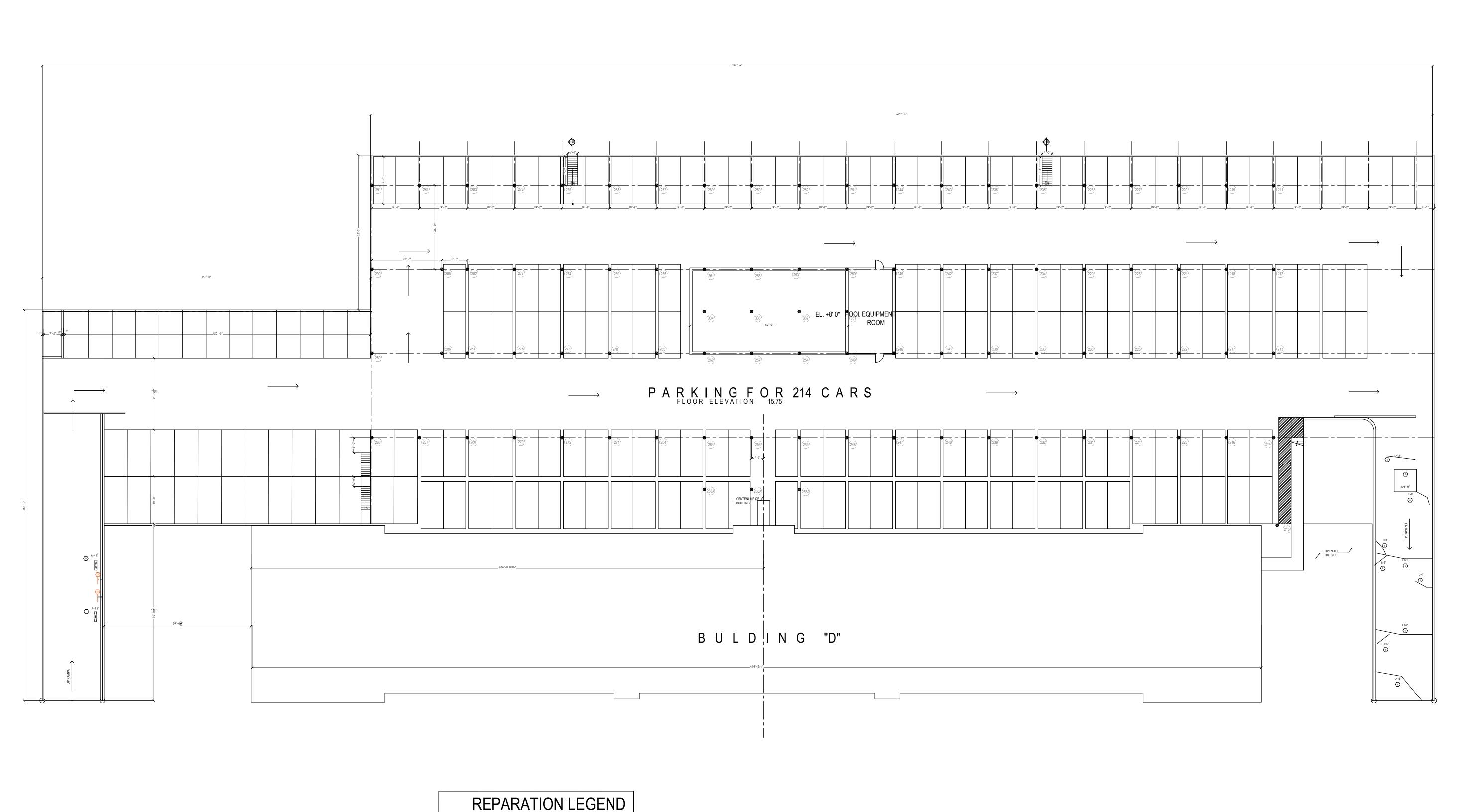
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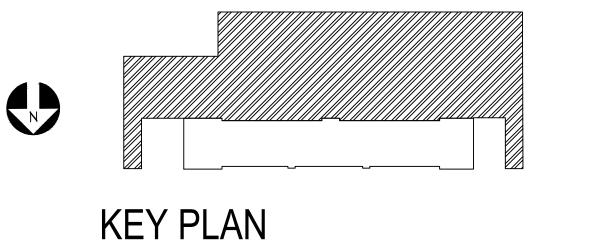
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# HAIRLINE CRACK SLAB OVERHEAD PARTIAL DEPTH HAIRLINE CRACK SLAB FULL DEPTH PARTIAL DEPTH SPALLED CONCRETE OVERHEAD FULL DEPTH CONCRETE REPAIR SLAB DIST REPAIR DIST REPAIR DEPTH SEAM REPAIR PARTIAL DEPTH SPALLED CONCRETE PARTIAL DEPTH PARTIAL DEPTH SPALLED CONCRETE



RAMPS PARKING BUILDING WISTON TOWER 100

SCALE: 3/32" = 1'-0"

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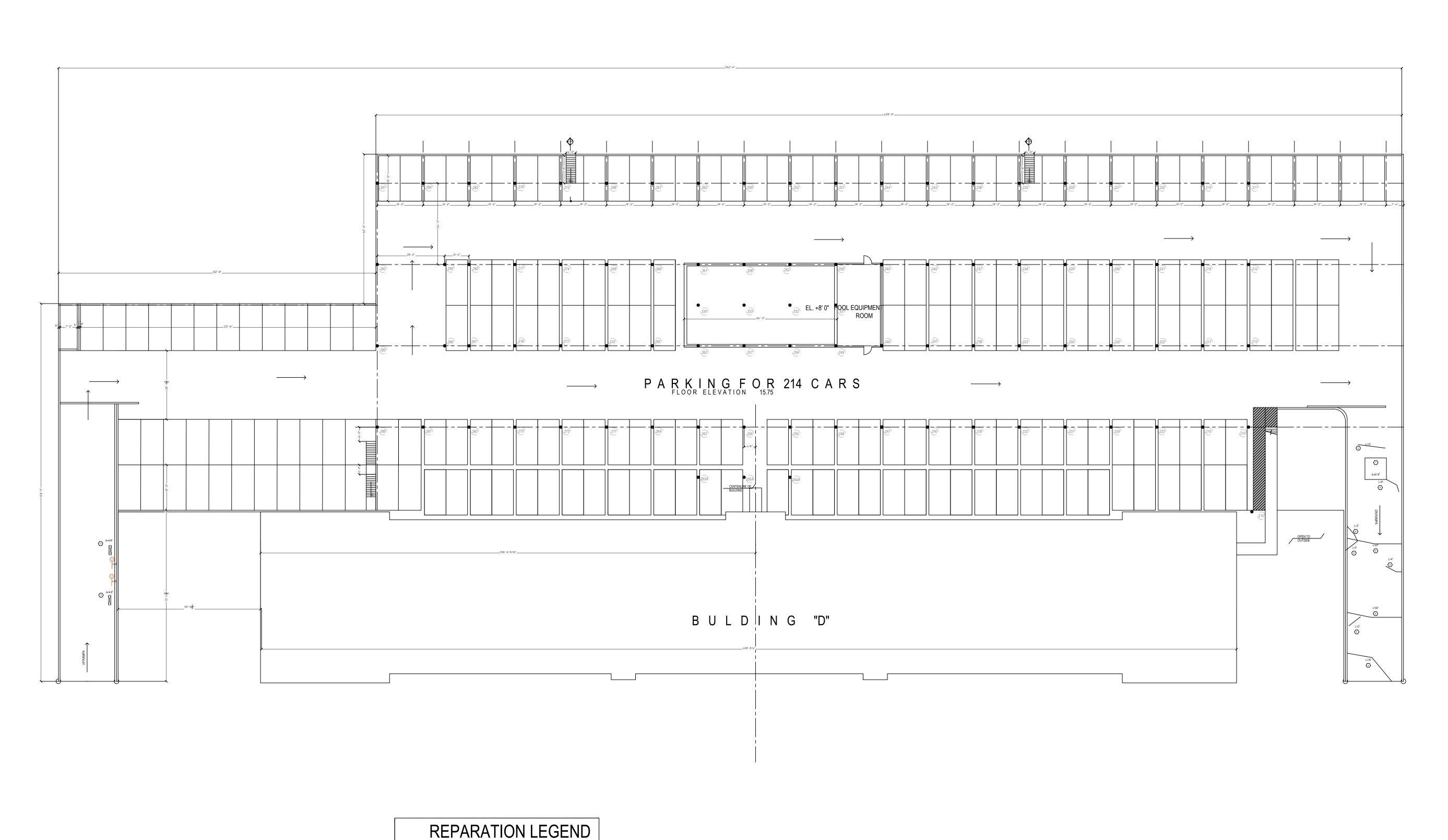
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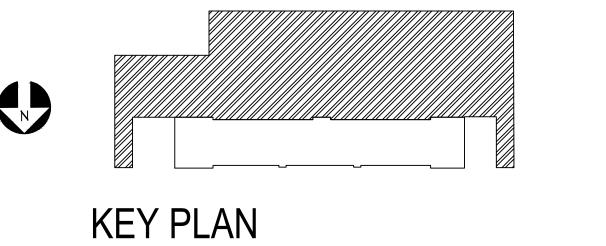
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S-7



# HAIRLINE CRACK SLAB OVERHEAD PARTIAL DEPTH (a) HAIRLINE CRACK SLAB FULL DEPTH (b) PARTIAL DEPTH SPALLED CONCRETE OVERHEAD (c) FULL DEPTH CONCRETE REPAIR SLAB (d) EDGE RAPAIR (d) JOIST REPAIR (d) BEAM REPAIR (d) BEAM REPAIR (d) EXPANSION JOINT (d) HAIRLINE CRACK ON SLAB PARTIAL DEPTH (d) PARTIAL DEPTH SPALLED CONCRETE



RAMPS PARKING BUILDING WISTON TOWER 100

SCALE: 3/32" = 1'-0"

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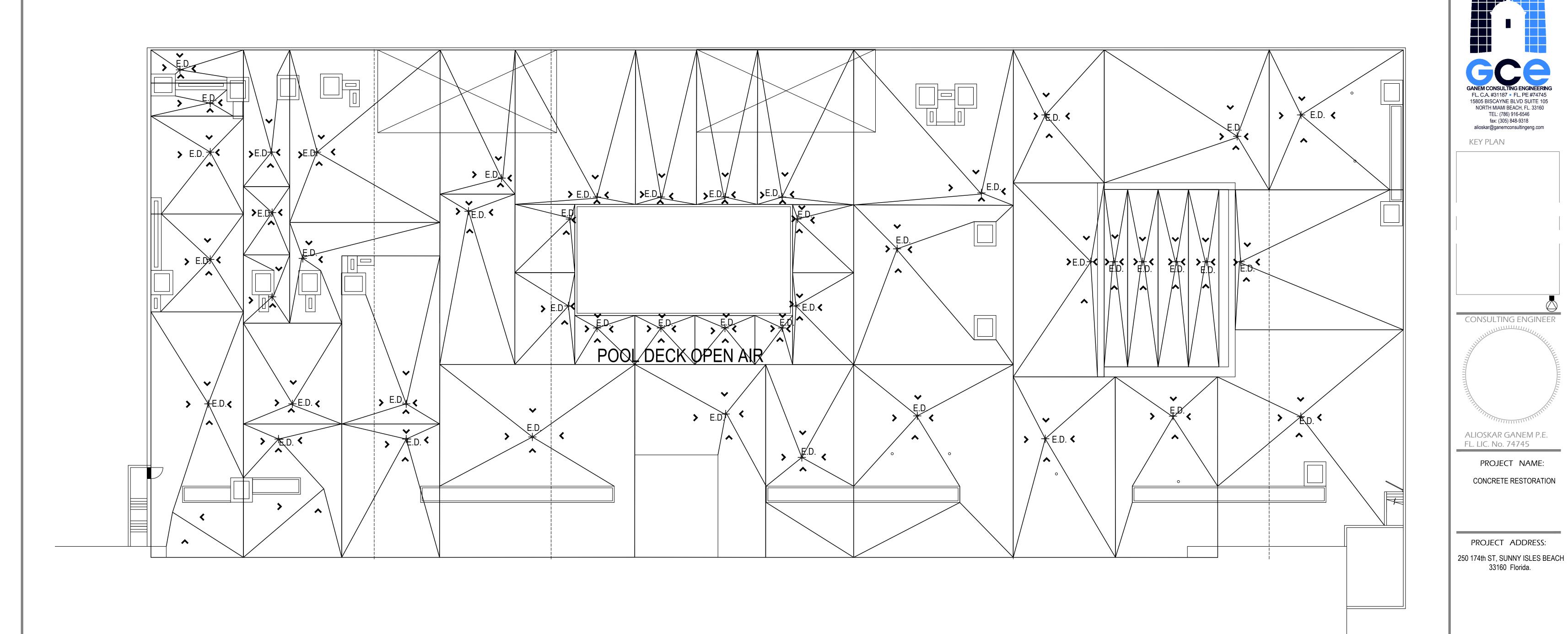
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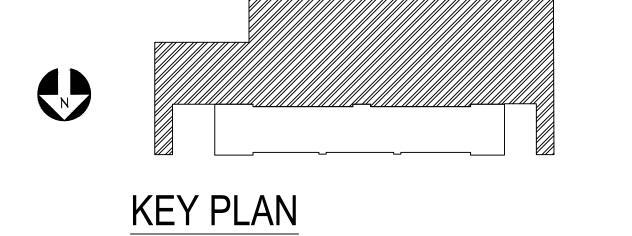
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S-8



B U L D I N G "D"

E.D. EXISTING DRAIN TO REMAIN



DRAINAGE POOL DECK PARKING BUILDING WISTON TOWER 100

SCALE: 3/32" = 1'-0"

Drawing Title:

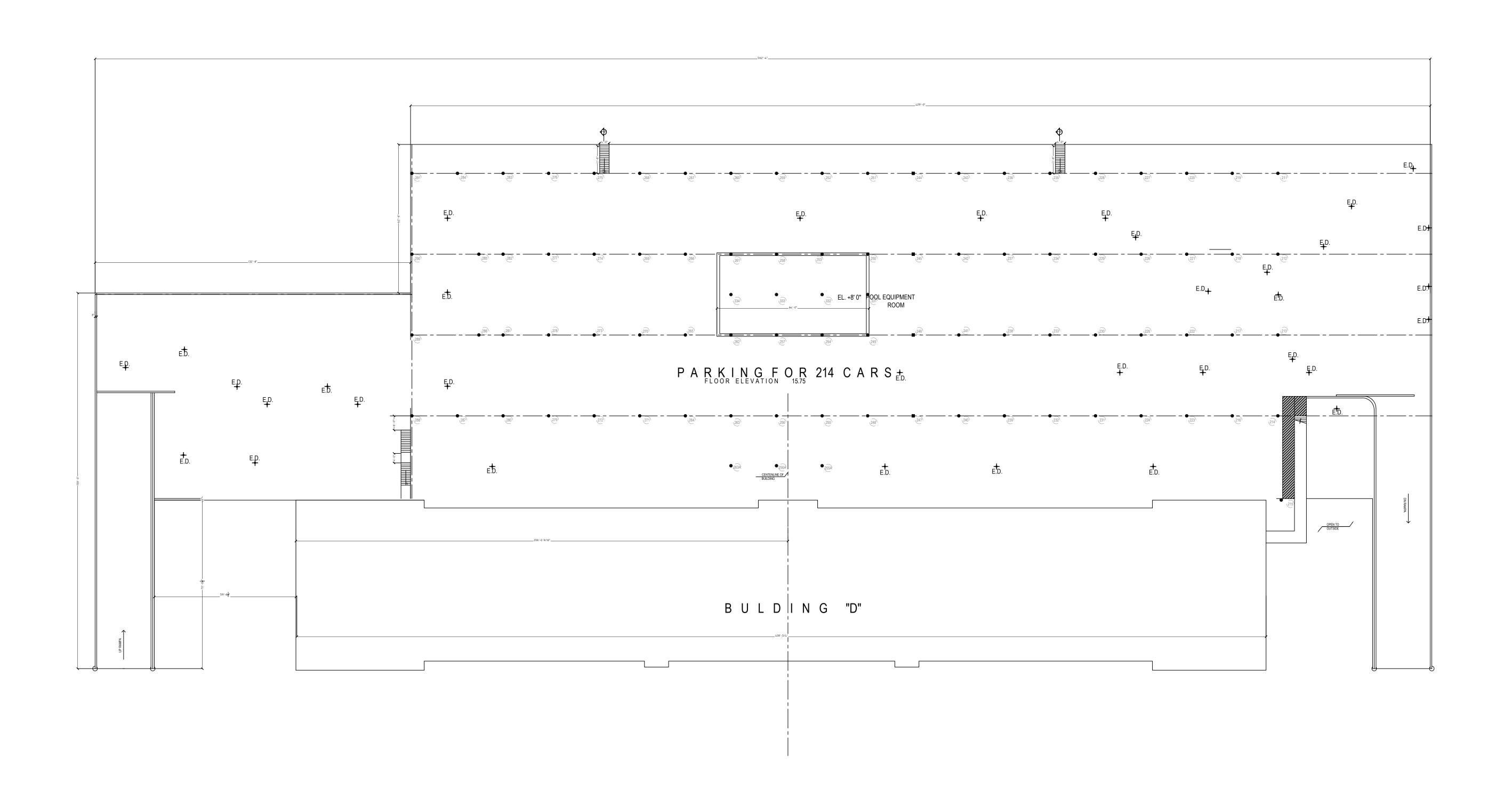
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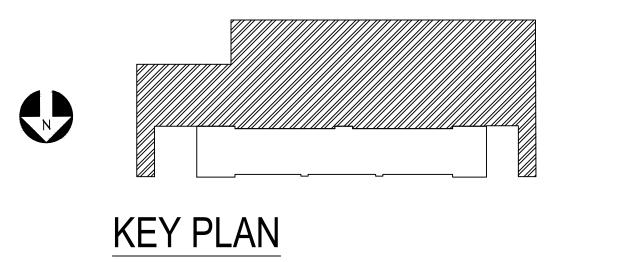
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DRAINAGE 2ND FLOOR
(EXISTING DRAINS TO REMAIN)
PARKING BUILDING
WISTON TOWER 100

SCALE: 3/32" = 1'-0"

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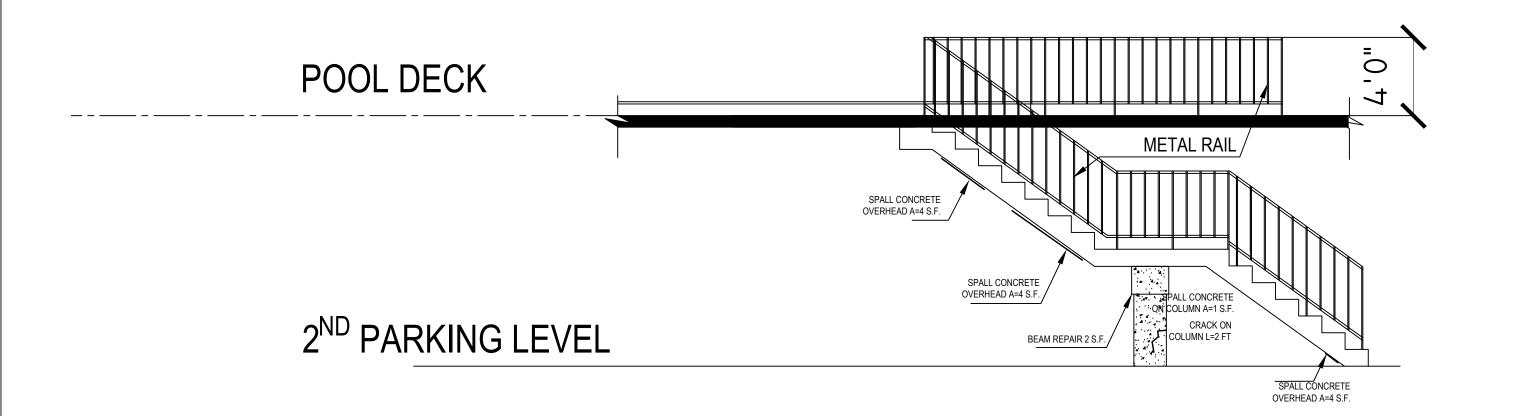
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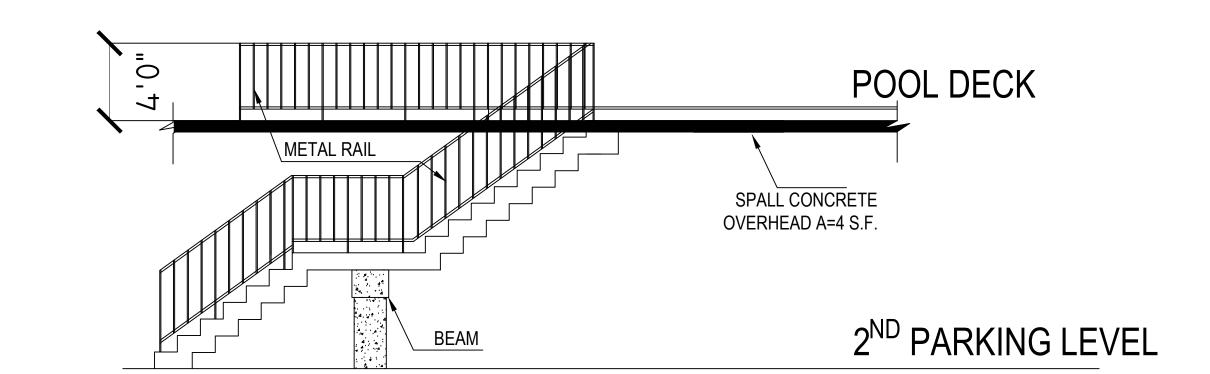
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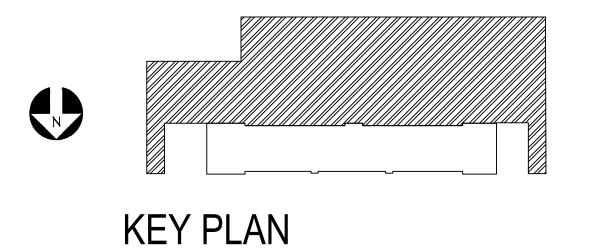
### REPARATION LEGEND

- 1 HAIRLINE CRACK ON COLUMNS
- 2 SPALL CONCRETE PARCIAL ON COLUMNS
- 3 PATCHING TO BE REPAIR ON COLUMNS
- 4 HONEYCOMB ON COLUMNS

## HAIRLINE CRACK SLAB OVERHEAD PARTIAL DEPTH HAIRLINE CRACK SLAB FULL DEPTH PARTIAL DEPTH SPALLED CONCRETE OVERHEAD FULL DEPTH CONCRETE REPAIR SLAB DEDGE RAPAIR JOIST REPAIR DEPTH COLD JOINT HAIRLINE CRACK ON SLAB PARTIAL DEPTH

15 ☐ PARTIAL DEPTH SPALLED CONCRETE

REPARATION LEGEND



STAIRS PARKING BUILDING WISTON TOWER 100

SCALE: 3/32" = 1'-0"

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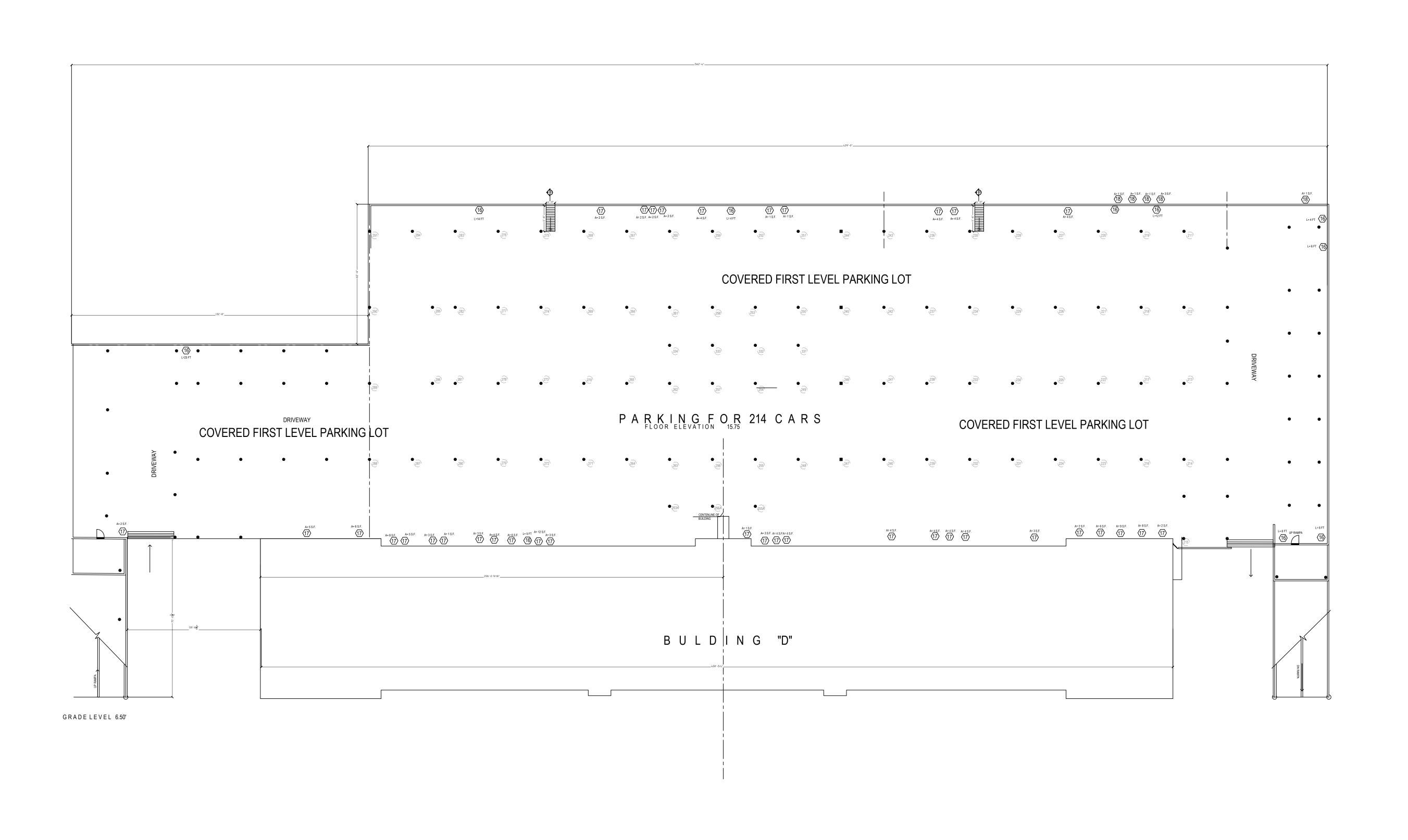
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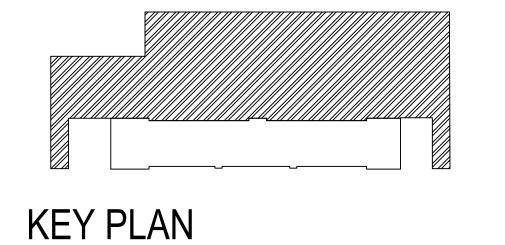
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REPARATION LEGEND (16) / HAIRLINE CRACK WALLS √ STUCCO PARTIAL DEPTH SPALLED CONCRETE WALLS



WALL REPAIR GROUND FLOOR PARKING BUILDING WISTON TOWER 100

SCALE: 3/32" = 1'-0"

Sheet No:

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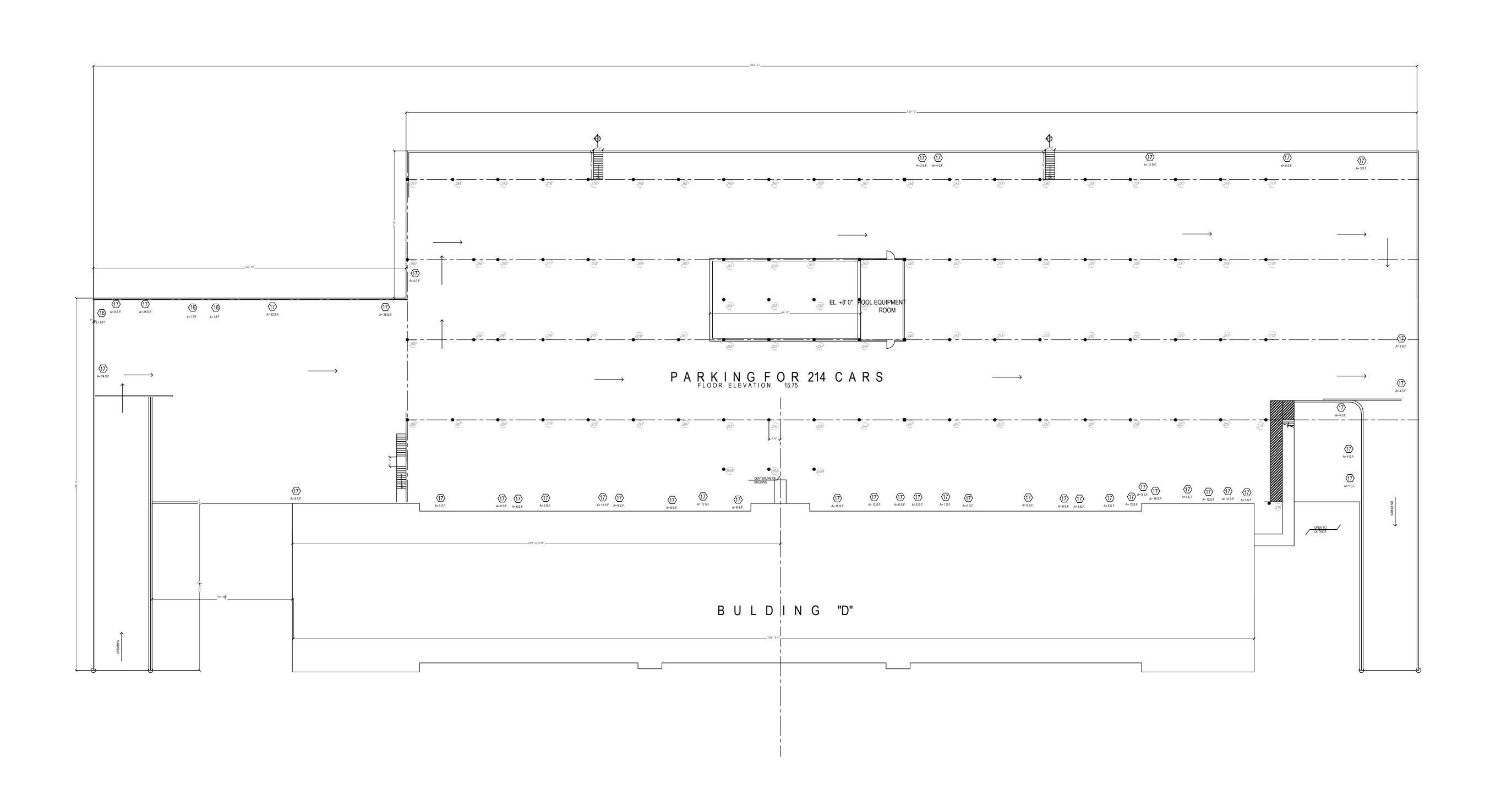
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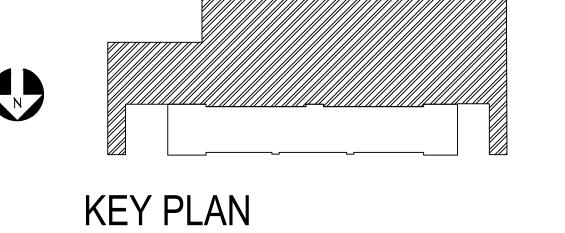


REPARATION LEGEND

16 HAIRLINE CRACK WALLS

17 STUCCO

18 PARTIAL DEPTH SPALLED CONCRETE WALLS



WALL REPAIR 2ND FLOOR
PARKING BUILDING
WISTON TOWER 100

SCALE: 3/32" = 1'-0"

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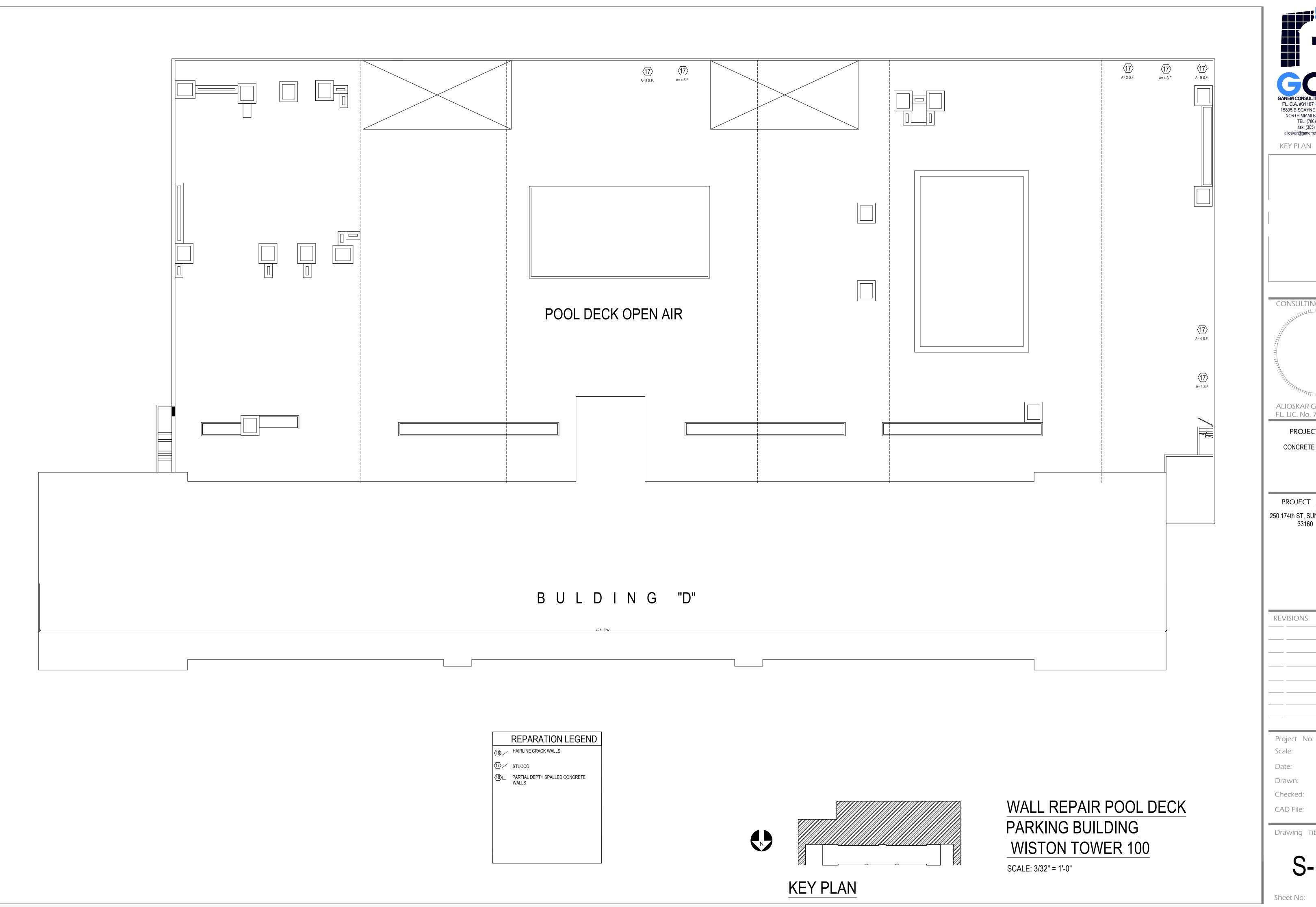
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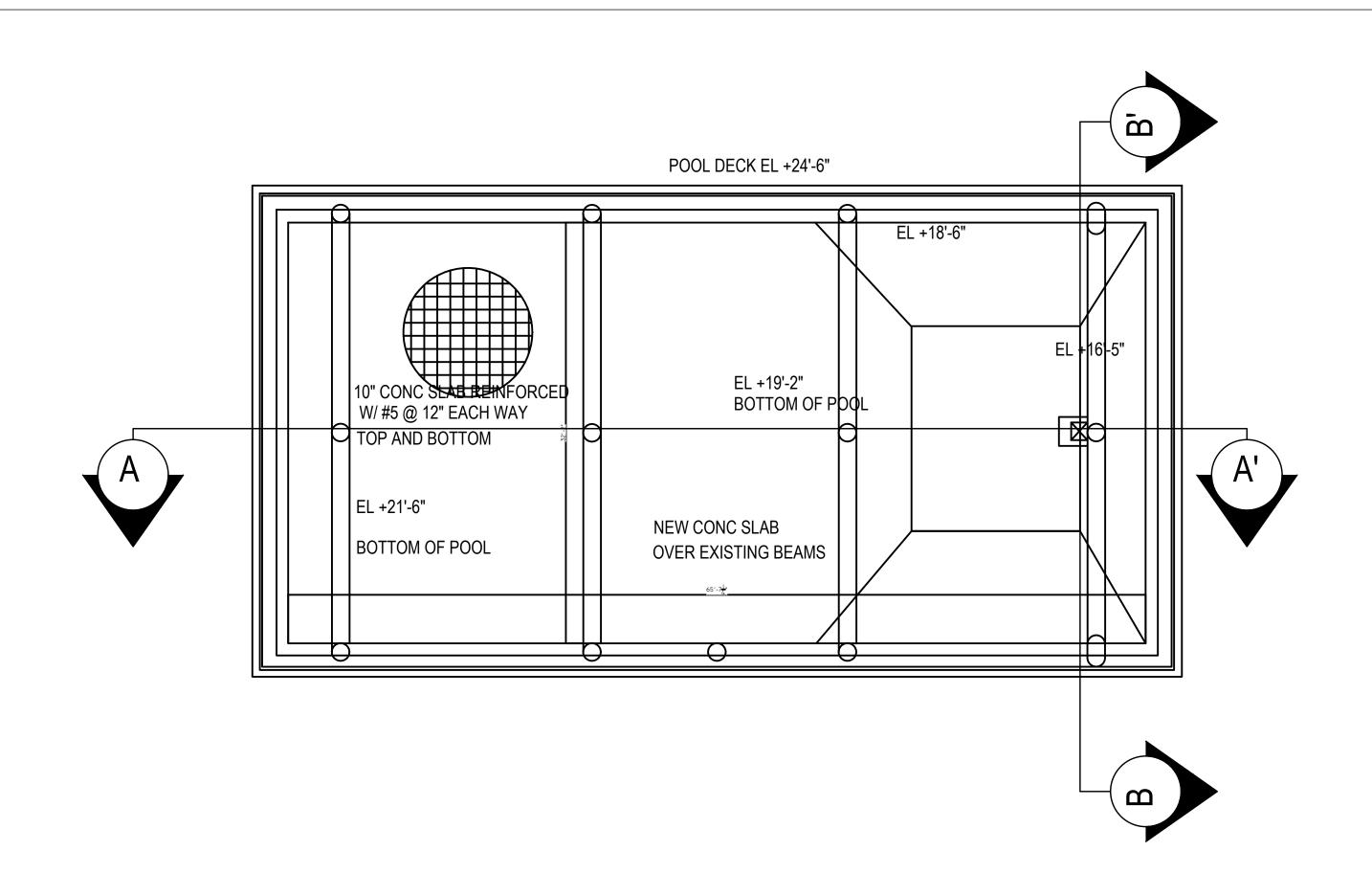
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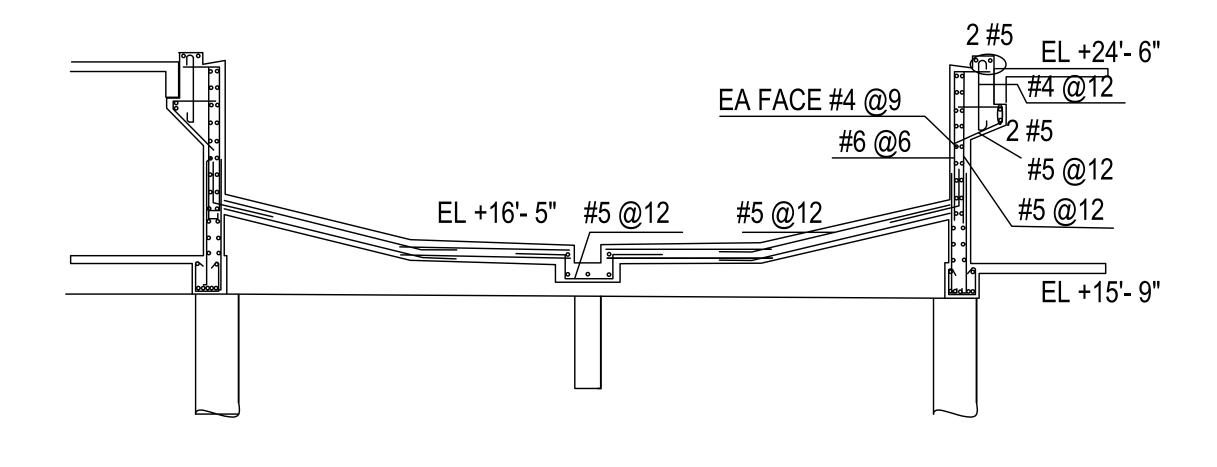
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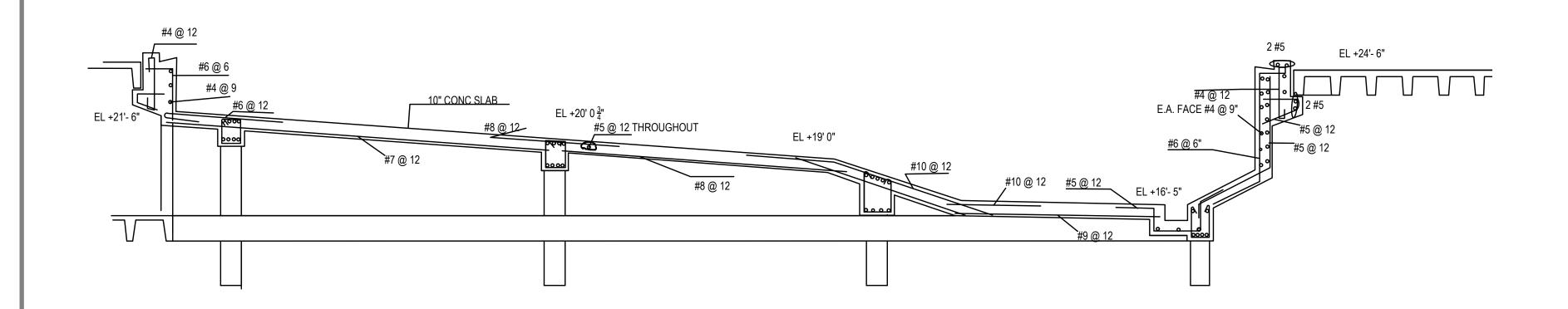
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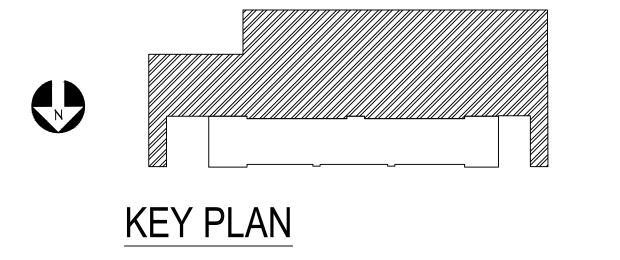


### SECTION B-B'



### SECTION A-A'





WALL REPAIR POOL DECK PARKING BUILDING WISTON TOWER 100

SCALE: 3/32" = 1'-0"

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STRUCTURAL REPAIR PROCEDURES: 1- REMOVE ALL DETERIORATED OR UNSOUND CONCRETE BY HYDRO-DEMOLITION IN A MANNER THAT EXERCISED NOT TO DAMAGE EXISTING REINFORCEMENT DURING REMOVAL. CONCRETE REMOVAL SHALL EXTEND TO WHERE BAR IS WELL BONDED TO SURROUNDING SOUND CONCRETE. IF BOND BETWEEN BAR AND CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR IS REQUIRED. REFER TO STRUCTURAL

REPAIR NOTE 4 FOR UNDERCUTTING REQUIREMENTS.

2- AT EDGE LOCATIONS CHIP OR SAWCUT 1/2" OR LESS) EDGES TO PREVENT FEATHERED EDGE CONDITIONS. DO NOT DAMAGE OR CUT REINFORCING STEEL. 3— CLEAN CONCRETE SURFACE OF ALL OIL, PAINT, DIRT, DEBRIS OR FOREIGN MATTER BY SANDBLASTING. SCARIFY SOUND CONCRETE SURFACE TO PROFILE BY SANDBLASTING SURFACES. 4- REMOVE LOOSE AND HEAVY RUST ON REINFORCING BY SANDBLASTING BARS. WHERE UNDERCUTTING IS REQUIRED, REMOVE CONCRETE AROUND STEEL REINFORCING TO A DISTANCE OF 3/4"-1" AROUND EACH BAR. INSERT NEW REBARS OF EQUAL DIAMETER NEXT TO THOSE THAT HAVE DETERIORATED BY MORE THAN 10%. ALL. NEW STEEL SHALL BE ASTM A-615 GRADE 60. SEE DETAILS 1, 2 AND 3 OF THIS SHEET FOR LAP SPLICES ALTERNATES.

5- REMOVE ALL DUST PARTICLES AND LOOSE MATERIAL OR RESIDUE FROM CONCRETE AND REBAR SURFACES BY PRESSURE WASHING OR HIGH-PRESSURE AIR. CHECK CONCRETE SURFACES TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT. 6— IF HYDRO—DEMOLITION IS USED AS A MEANS FOR CONCRETE REMOVAL AND CLEANING OF FOREIGN MATTER AND RESIDUE, CEMENT AND PARTICULATE SLURRY MUST BE REMOVED FROM PREPARED SURFACES BEFORE SLURRY HARDENS.

7— BRUSH ON CORROSION—INHIBITING PRIMER ON REINFORCING BARS AND APPLY BONDING AGENT TO CONCRETE SURFACES. FOLLOW MANUFACTURERS GUIDELINES FOR APPLICATION OF PRIMER AND BONDING AGENT.

8— FORM AREA TO BE PATCHED TO MATCH EXISTING PROFILE OR AS INDICATED ON PLANS AND FILL AREA FLUSH WITH STRUCTURAL REPAIR MORTAR. STRUCTURAL REPAIR MORTAR SHALL BE AS SPECIFIED OR APPROVED EQUIVALENT COMPRESSIVE STRENGTH EQUAL OR BETTER THAN ORIGINAL SPECIFIED CONCRETE COMPRESSIVE STRENGTH. 9- CURE AND FINISH AS REQUIRED. NOTE: FINISH MAY NOT MATCH EXISTING FINISH. 10- CONTRACTOR MUST VISIT THE JOB SITE FOR QUANTIFICATION OF DAMAGES PRIOR TO BID. 11— EXTERIOR OF THE BUILDING WAS COVERED BY STUCCO AND SIGNAGE DURING ENGINEERING SURVEY. CONTRACTOR MUST ASSUME SAME AMOUNT OF DAMAGE ON MEMBERS AS SHOWN ON INTERIOR FACE OF BEAMS AND COLUMNS.

12- CONTRACTOR MUST SUBMIT TECHNICAL SPECIFICATIONS OF ALL MATERIALS FOR APPROVAL.

### DISCLAIMER, GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND ANGLES AND ALL OTHER EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK. CONTRACTOR TO ALSO VERIFY AND APPROVE ALL INFORMATION ON DRAWINGS. ACCEPTANCE OF THESE PLANS CONSTITUTES APPROVAL. PLEASE NOTIFY ENGINEER BY CERTIFIED MAIL OF ANY CONFLICTS OR DISCREPANCIES, IF ANY.
- 2. THE CONTRACTOR SHALL OBTAIN FROM ALL SUBCONTRACTORS THE FINAL APPROVED SITE AND LOCATION OF ALL OPENINGS AND RELATED JOB'S CIRCUMSTANCES TO BE PROVIDED FOR RESPECTIVE TRADES. HE SHALL BE RESPONSIBLE FOR LOCATION AND DETAILS.
- 3. OWNER AND CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING, BY CERTIFIED MAIL UPON COMMENCEMENT OF
- 4. THE OWNER SHALL BE SOLELY RESPONSIBLE FOR INVESTIGATION IN REFERENCE TO WHETHER STRUCTURE CAN BE BUILT ON SITE. PAYMENT OF THESE DRAWINGS CONSTITUTES ACCEPTANCE & AGREEMENT WITH THE FOLLOWING STATEMENT: NO PARTY SHALL INITIATE DELAY CLAIMS AGAINST ENGINEERING FOR BUILD, LLC LIABILITIES SHALL BE LIMITED TO FEES PAID TO THE DESIGN PROFESSIONAL PLEASE NOTE - IT IS THE RESPONSIBILITY OF THE CONTRACTOR
- TO FIELD VERIFY ALL JOB CONDITIONS, DIMENSIONS AND TESTING MATERIALS. 5. THE REPAIR AREAS SHOWN ON THESE PLANS ARE BASED ON A VISUAL INSPECTION DONE BY GANEM CONSULTING ENGINEERING, LLC. DURING CONSTRUCTION THESE AREAS TO REPAIR MAY VARY AND IT IS UNDER RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND COORDINATE WITH THE OWNER AND E.O.R. THE REPAIRS OF THESE ADDITIONAL
- 6. IF ANY AREA THE EXISTING STRUCTURES TO BE REPAIRED WERE FOUNDED IN DIFFERENT CONDITIONS OR TYPE OF REINFORCEMENT LIKE POSTENSIONED CABLES AS ALL THE JOB ABOUT THAT STRUCTURAL MEMBER MUST BE CANCELED THE CONTRACTOR MUST INFORM TO THE ENGINEER OF RECORD, AND A NEW SET OF REPARATION PLANS MUST BE

### <u>GENERAL NOTES</u>

GENERAL CONSIDERATIONS

CONCRETE REMOVAL ADDRESSE DETERIORATED AND DAMAGED MATERIAL SOME SOUND CONCRETE, HOWEVER, MAY BE REMOVED TO PERMIT STRUCTURAL MODIFICATIONS AND TO ENSURE THAT ALL UNSOUND MATERIAL REMOVED. THE EFFECTIVENESS OF VARIOUS REMOVAL TECHNIQUES CAN DIFFER FOR DETERIORATED AND SOUND CONCRETE. SOME TECHNIQUES MAY BE MORE EFFECTIVE IN SOUND CONCRETE, WHILE OTHERS. WORK BETTER FOR DETERIORATED CONCRETE.

### CONCRETE REMOVAL

THE REMOVAL OF DETERIORATED, DAMAGED OR DEFECTIVE CONCRETE REQUIRES SPECIAL ATTENTION TO THE IDENTIFICATION AND EXTENT OF UNSOUND AND SOUND CONCRETE TO BE REMOVED, THE TYPE OF REMOVAL TECHNIQUES, AND THE PROTECTION OF EXISTING REINFORCING DURING REMOVAL. THESE FACTORS SHOULD BE ADDRESSED TO MAINTAIN STRUCTURAL INTEGRITY AND AVOID DAMAGE

### CONSTRUCTION REQUIREMENT

ALL PUBLIC AND PRIVATE WORK INCLUDING BUT NOT LIMITED TO WATERMAINS, WATER SERVICES, SANITARY SEWERS, SANITARY SEWER SERVICES, STORM SEWERS, DRAINAGE SYSTEMS, ROADS, SIDEWALKS, PARKING LOTS, SITE GRADING AND LANDSCAPING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OR COUNTY WHERE THE JOB IS PERFORMED ORDINANCES, STANDARDS, SPECIFICATIONS, AND DETAILS THAT APPLICABLE. NO DEVIATIONS FROM THE PLANS WILL OWNER/DEVELOPER OR CONTRACTORS SUBMITTED BE ALLOWED UNLESS WRITTEN APPROVAL FROM THE CITY OF COUNTY WHERE THE JOB IS PERFORMED IS RECEIVED, ALONG WITH PERMISSION FROM THE CITY OR COUNTY WHERE THE JOB IS PERFORMED FOR WATER AND SANITARY SEWER DEVIATIONS. ALL PUBLIC AND PRIVATE EASEMENTS SHALL BE RECORDED PRIOR TO FINAL ACCEPTANCE BY THE CITY OR COUNTY WHERE THE JOB IS PERFORMED.

TO THE STRUCTURE WHILE IMPLEMENTING THE REPAIRS.

ENGINEER/INSPECTION DISCLAIMER THE PRESENCE OR NOT PRESENCE OF THE ENGINEER/INSPECTOR AT THE WORK SITE SHALL IN NO WAY LESSEN THE CONTRACTOR SPECIFICATIONS, FLORIDA BUILDING CODE AND OSHA REGULATIONS SHOULD THE ENGINEER OR INSPECTOR PRIOR TO, DURING OR

AFTER CONSTRUCTION FAIL TO IDENTIFY OR REJECT MATERIALS OR WORK THAT DOES NOT CONFORM WITH THE ABOVE DOCUMENT WHETHER FROM LACK OF DISCOVERY OR FOR ANY OTHER REASON SHALL IN NO WAY PREVENT LATER REJECTION AND CORRECTION F THE UNSATISFACTORY MATERIALS OR WORK WHEN DISCOVERED HIS IS ALSO TRUE IF THE WORK HAS BEEN ACCEPTED AND IS CURRENTLY BEING MAINTAINED BY THE COUNTY OR CITY
JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORRECTION OF ALL WORK THAT DOES NOT CONFORM TO THE GOOD ENGINEERING PRACTICES AND THE DOCUMENTS MENTIONED

### **IMPORTANT NOTES:**

- 1.-THE CONTRACTOR HAS TO FOLLOW O.S.H.A. AND ACI-546 CONCRETE REPAIR GUIDE FOR SAFETY AND QUALITY CONCRETE MATERIALS THROUGH REPAIR PROCESS 2.—THE CONTRACTOR HAS TO MANTAIN THE REPAIRS AREAS CLEAN AFTER EACH WORKDAY.
- 3.— THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES TO GUARANTEE HIS WORK. 4.-THE CONTRACTOR HAS TO REQUEST INSPECTIONS BEFORE CONCRETE POURING AND TAKE PICTURES SHOWING LOCATION OF ALL WORK PERFORMED
- 5.-THE CONTRACTOR HAS TO SUBMIT THE PRODUCTS FOR APPROVAL BEFORE THE CONCRETE
- 6.- IF THE CONTRACTOR FINDS MORE SPALLED AREAS NOT SHOWN IN PLANS, THEN NOTIFY THE
- ENGINEER BEFORE PROCEEDING WITH THE REPAIRS. 7.-CLEAN STEEL TO REQUIREMENTS OF SSPC-SP5/NACE NU PRIOR TO PRIMING.
- AFTER THAT FOLLOW THE RECOMENDATIONS OF THE MANUFACTURER. 8.-FOR SPALLED CONCRETE AREAS, CONTRACTOR MUST USE EUCOCRETE OR SIMILAR. 9.- CONCRETE GROUT STRENGTH AT 28 DAYS SHALL BE 5,000 PSI MINIMUM.

APPLY AN EPOXY-ZINC-RICH PRIMER IMMEDIATELY AFTER SURFACE PREPARATION,

### ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE

ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINI ERECTION PROCEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING

TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION.

THE STRUCTURAL FRAMING WAS DESIGNED USING THE FOLLOWING CODES

- BUILDING CODE : FLOR1IDA BUILDING CODE 2017 - CONCRETE: ACI 318-08
- STEEL: AISC 360-10 (14th Ed.) MASONRY: ACI 530-13 - WOOD : NDS 2015 - WIND : ASCE 7-10

### DEMOLITION GENERAL NOTES

- -DURING THE PROCESS OF DEMOLITION AND RETROFIT, THE BUILDING SHALL REMAIN PROTECTED FROM THE ELEMENTS TO AVOID
- DAMAGE BY WATER, WIND OR HUMIDITY. THE PROCESS OF REMOVAL SHALL BE ACCOMPANIED BY A PROCESS OF CLEANING OF THE REMAINING ELEMENT SO AS TO ALLOW PROPER REPAIR AND/OR REPLACEMENT DURING
- GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THI A.O.R. / E.O.R. ATTENTION PRIOR TO START OF CONSTRUCTION. ANY CONDITION NOT BROUGHT TO THE ATTENTION OF THE A.O.R./ E.O.R. PRIOR TO BID SHALL BE THE RESPÓNSIBILITY OF THE GENERAL CONTRACTOR.
- -GENERAL CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY DEMOLITION. (I.E. WATER, SEWER, FPL, ETC.) CONTRACTOR TO LOCATE ALL EXISTING INSTALLATIONS THAT WILL PREVENT THE CONSTRUCTION OF THE INTENDED ITEMS, OR
- REQUIRE THE MODIFICATION OF CEILING - GENERAL CONTRACTOR TO PATCH AND REPAIR
- ALL SURFACES THAT BECOME AFFECTED DURING CONSTRUCTION. ALL SALVAGABLE MATERIALS TO BE REMOVED AND STORED BY CONTRACTOR ACCORDING TO

- ITEMS TO BE REMOVED OR RELOCATED SHALL VE DONE IN A SAFE, ORDERLY MANNER WITHOUR DAMAGE TO OTHER PARTS OF THE PREMISES OR ADJACENT PROPERTIES, ANY RESULTING DAMAGE OR LOSS SHALL BE CORRECTED OR REPLACED BY CONTRACTOR.
- LOCATION OF DUMPSTER AND WORK PROCEDURES ARE TO BE COORDINATED WITH PROPERTY MANAGEMENT OR OWNER. K.-CONTROL, AS MUCH AS PRACTICAL, THE

SPREAD OF DUST AND DIRT.

- VERIFY THAT ALL APPROPRIATE UTILITIES HAVE BEEN DISCONNECTED AND PROPERLY CAPPED TO INSURE SAFETY. M.-CONTRACTOR IS RESPONSIBLE FOR PROMPT DISPOSAL OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND IS TO ENSURE
- TRANSPORT MATERIALS RESULTING FROM - DEMOLITION OPERATIONS AND LEGALLY DISPOSE

THAT SUCH MATERIALS DO NOT ACCUMULATE

- UPON COMPLETION OF DEMOLITION OPERATIONS, REMOVE ALL TOOLS, EQUIPMENT AND DEBRIS LEAVING ALL AREAS (EXT.&INT.) CLEAN AND PREPARED FOR NEW CONSTRUCTION.
- REPAIR ANY AND ALL DAMAGE OBJECTS THAT WHERE NOT SUPPOSED TO BE DAMAGED DURING THE DEMOLITION PHASE TO CONDITION PRIOR TO ALL DEMOLISHED MATERIAL SHALL BECOME
- \_ CONTRACTOR'S PROPERTY AND SHALL BE DISPOSED OF BY CONTRACTOR. DRAWINGS IS FOR SCOPE OF WORK ONLY.

### THE STRUCTURAL FRAMING WAS DESIGNED USING THE FOLLOWING SUPERIMPOSED LOADS. DESIGN WIND LOADS WERE DETERMINED IN ACCORDANCE WITH F.B.C 2017 AND ASCE 7-10.

Kd : 0.85 GCPI : ± 0.55 IMPORTANCE FACTOR

FORM WORK, SHORING, AND BRACING FOR ALL CONCRETE BEAMS, SLABS, COLUMNS, WALLS, AND FOOTINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORM

### CEMENTITIOUS MATERIALS

TO MATCH THE PROPERTIES OF THE CONCRETE BEING REPAIRED AS CLOSELY AS POSSIBLE, PCC AND MORTAR OR OTHER CEMENTITIOUS COMPOSITIONS USING SIMILAR PROPORTIONS OF INGREDIENTS ARE THE BEST CHOICES FOR REPAIR MATERIALS. THE NEW CEMENTITIOUS REPAIR MATERIAL SHOULD BE COMPATIBLE WITH THE EXISTING.

### CONCRETE SUBSTRATE.

CONCRETE PROPORTIONS SHOULD PROVIDE WORKABILITY, DENSITY STRENGTH, AND DURABILITY NECESSARY FOR THE PARTICULAR APPLICATION (ACI 211.1). TO MINIMIZE SHRINKAGE CRACKING, THE REPAIR CONCRETE SHOULD HAVE A w/cm AS LOW AS POSSIBLE AND A COARSE AGGREGATE CONTENT AS HIGH AS POSSIBLE.

### BONDING METHODS

REPAIR MATERIALS MAY OR MAY NOT REQUIRE A SEPARATE BONDING AGENT. IN EITHER CASE, THE SUCCESS OF THE REPAIR DEPENDS ON ACHIEVING INTIMATE AND CONTINUOUS CONTACT BETWEEN THE REPAIR MATERIAL AND THE SUBSTRATE. INTIMATE CONTACT CAN BE ACHIEVED BY VIBRATION, PNEUMATIC APPLICATION, HIGH FLUIDITY AND TROWELING PRESSURE IN CONJUNCTION WITH ATTAINING AN OPTIMUM SURFACE PROFILE.

### BONDING MATERIALS

BONDING MATERIALS CAN BE USED TO BOND NEW REPAIR MATERIALS ARE OF THREE TYPES: EPOXY BASED, LATEX BASED, CEMENT BASED.

A) EPOXY: EPOXY SYSTEMS ARE COVERED IN ASTM C 881. CARE SNOULD BE TAKEN WHEN USING THESE MATERIALS IN HOT WEATHER, HIGH TEMPERATURES MAY CAUSE PREMATURE CURING AND CREATION OF A BOND BREAKER. MOST EPOXY-RESIN BONDING MATERIALS CREATE A MOISTURE BARRIER BETWEEN THE EXISTING SUBSTRATE AND HE REPAIR MATERIAL. UNDER CERTAIN CONDITIONS, A MOISTURE BARRIER COULD RESULT IN FAILURE OF THE REPAIR WHEN MOISTURE IS TRAPPED IN THE CONCRETE DIRECTLY BEHIND THE MOISTURE BARRIER AND FREEZING OCCURS IN THIS ZONE.

B) LATEX - LATEX SYSTEMS ARE COVERED IN ASTM C 1059 LATEX BONDING AGENTS ARE CLASSIFIED AS TYPE 1-REDISPERSIBLE AND TYPE II-NONREDISPERSIBLE. TYPE I BONDING AGENTS CAN BE APPLIED TO THE BONDING SURFACE SEVERAL DAYS BEFORE PLACING THE REPAIR MATERIALS; HOWEVER THE BOND STRENGTH IS LESS THAN THAT PROVIDED BY TYPE II BONDING AGENTS. TYPE I BONDING AGENTS SHOULD NOT BE USED IN AREAS SUBJECT TO WATER, HIGH HUMIDITY OR STRUCTURAL APPLICATIONS. TYPE II SYSTEMS ACT AS BOND BREAKERS ONCE THEY HAVE SKIMMED OVER OR CURED. TYPE II SYSTEMS ARE BEST SUITED FOR BONDING WHEN MIXED WITH CEMENT AND WATER TO PRODUCE A SLURRY. THESE ARE MOST COMMONLY USED WITH PMC MIXTURES.

C) CEMENT - CEMENT-BASED SYSTEMS HAVE BEEN SUCCESSFULLY USED FOR MANY YEARS CEMENT BONDING SYSTEMS USE NEAT PORTLAND CEMENT OR A BLEND OF PORTLAND CEMENT AND FINE AGGREGATE FILLER PROPORTIONED ONE TO ONE BY MASS. WATER IS ADDED TO PROVIDE A UNIFORMLY CREAMY CONSISTENCY CEMENTITIOUS SLURRIES ARE COMMONLY USED WITH PCC.

### CONCRETE SURFACE PREPARATION AND INSTALLATION REQUIREMENTS.

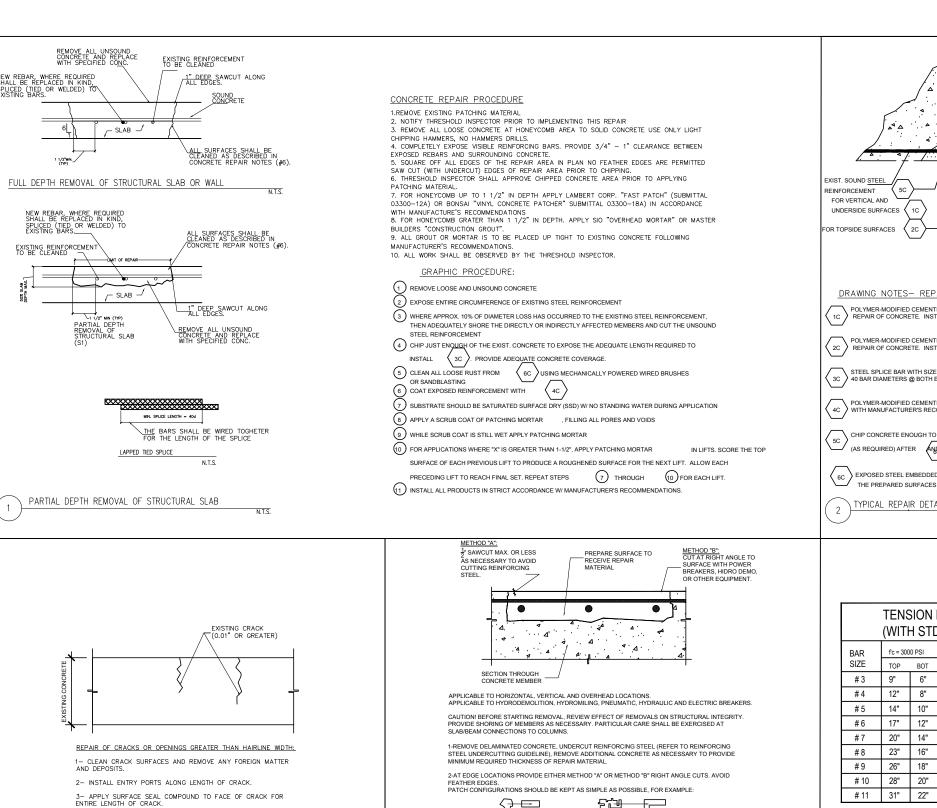
CERTAIN BASIC CONDITIONS SHOULD BE MET BEFORE SELECTING AND INSTALLING A PROTECTION SYSTEM. SURFACE PREPARATION IS ONE OF THE MOST IMPORTANT. COMPLETION OF CONCRETE REPAIRS - CONCRETE REPAIRS, BEFORE APPLICATION OF PROTECTIVE SYSTEM, SHOULD BE COMPLETED AND CURED (USUALLY 28 DAYS). (NOTE: MANUFACTURERS OF SOME SUBSTANTIATED BY TEST DATA BEFORE ACCEPTANCE BY THE SPECIFIER SURFACE PREPARATION — THE SURFACE SHOULD BE DRY AND SOUND AND THE PREPARATION IMPLEMENTED IN ACCORDANCE WITH

COATINGS THAT COULD RESULT IN POOR ADHESION OF A COATING OR THAT MAY LIMIT THE PENETRATION OF SEALERS SHOULD BE REMOVED. ACCEPTED TECHNIQUES INCLUDE SCARIFICATION, BRUSHING OR OR CONTRACTOR). GRINDING ABRASIVE BLASTING, SHOTBLASTING, AND FLAME CLEANIN DUST AND DEBRIS RESULTING FROM SURFACE PREPARATION SHOULD BE REMOVED BEFORE APPLYING THE SURFACE TREATMENT. ACI 515.1R AND ICRI 03732 PROVIDE GUIDELINES FOR THE PREPARATION OF CONCRETE SUBSTRATES, CONTRACTOR TO SUBMIT GUDELINES FOR APPROVAL BY BOTH, THE SPECIAL INSPECTOR AT JOB SITE AND THE BUILDING OFFICIAL OF ACCEPTABILITY FOR SOME PROTECTION SYSTEMS, CONCRETE REPAIRS AND INSTALLATION OF RAILINGS IN GENERAL.

THE MANUFACTURER'S RECOMMENDATIONS. ALL SURFACE CONTAMINATION,

JOIN SEALANTS IN CONCRETE MINIMIZE THE INTRUSION LIQUIDS, SOLIDS, OR GASES, AND PROTECT THE CONCRETE AGAINST DAMAGE. IN CERTAIN APPLICATIONS SECONDARY FUNCTIONS IMPROVE THERMAL AND ACOUSTICAL INSULATION. DAMPEN VIBRATION, OR PREVENT UNWANTED MATTER COLLECTING IN CREVICES (ACI 504R) BE ADDRESSED TO MAINTAIN STRUCTURAL INTEGRITY AND AVOID DAMAGE TO THE STRUCTURE WHILE IMPLEMENTING THE REPAIRS

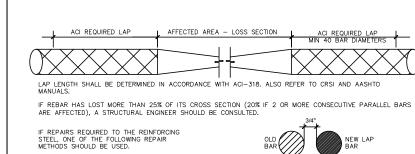
SEALING METHODS - METHODS - METHODS TO SEAL JOINTS INCLUDE INJECTION TECHNIQUES, ROUTING AND CAULKING, BONDING INSTALLING PREMOLDED SEALS, OR INSTALLING APPROPRIATE SURFACE PROTECTION SYSTEMS (SUCH AS ELASTOMETRIC MEMBRANES). ACI 504 R DISCUSSES DIFFERENT TECHNIQUES AND MATERIALS TO SEAL JOINTS, AND ACI 503.4 DISCUSSES EPOXY MATERIALS.



3-AFTER REMOVALS AND EDGE CONDITIONING ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT, CONCRETE SLURRY, LOOSELY BONDED AGGREGATES) BY ABRASIVE BLASTING OR HIGH PRESSURE WATERBLASTING WITH OR WITHOUT ABRASIVE. CHECK THE SURFACES AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.

4-IF HYDRODEMOLITION IS USED, CEMENT AND PARTICULATE SLURRY MUST BE REMOVED FROM THE PREPARED SURFACES BEFORE SLURRY HARDENS.

4 TYPICAL CONCRETE EDGE AND SURFACE CONDITIONING



1— COMPLEIE BAR REPLACEMENT, OR 2— ADDITION OF SUPPLEMENTAL BAR OVER AFFECTED SECTION. NEW BAR MAY BE MECHANICALLY SPLICE TO OLD BAR OR PLACED PARALLEL TO AND APPROXIMATELY 3/4" FROM EXISTING BAR.

REPAIR OF REINFORCING STEEL DUE TO LOSS OF SECTION

SECTION THRU CONCRETE

EXPOSED REINFORCING BARS REFER TO NOTE #4, #5

PATCHING MATERIAL REFER
TO NOTES #6

REPAIR PROCEDURE

1. CLEARLY MARK THE AREA OF DAMAGED CONCRETE TO BE REMOVED.

2. REMOVE ALL LOOSE CONCRETE.

3. SQUARE OFF ALL EDGES OF THE REPAIR AREA IN PLAN NO FEATHER EDGES ARE PREMITTED SAW CUT (WITH UNDERCUT) EDGES OF REPAIR AREA PRIOR TO CHIPPING.

4. COMPLETELY EXPOSE VISIBLE REINFORCING BARS, PROVIDE \$7 TO 1" CLEARANCE PROVIDE \$7 TO 1" CLEARANCE. 5. CLEAN THE EXPOSED REBAR USING A STAINLESS STEEL WIRE BRUSH, AND REMOVE ALL DUST FROM THIS OPERATION. ALL DOGSTROOM THIS OF EIGHT.

6. PROTECT THE STEEL REBAR WITH A HIGH-PERFORMANCE ANTI-CORROSION PRIMER AND BONDING AGENT. TO IMPROVE BONDING OF THE REPAIR MORTAR TO EXISTING CONCRETE, COAT ALL AREAS OF THE REPAIR WITH THE SAME BONDING AGENT. 7. FILL THE REPAIRED AREA WITH A REPAIR MORTAR WITH A f'c = 3,500 psi @ 7 8. PROTECT THE FRESH MORTAR BY CURING WITH WET BURLAP OR COVERING WITH PLASTIC SHEETING. DO NOT USE CURING COMPOUNDS.

BEAM OR COLUMN

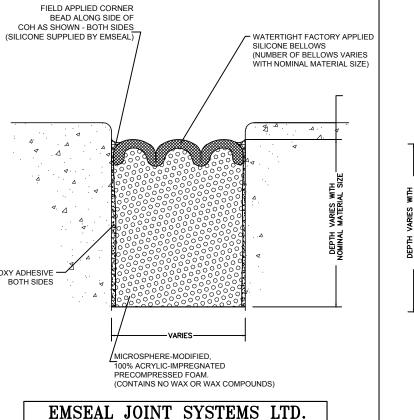
4- INJECT EPOXY REPAIR COMPOUND INTO CRACK UNDER PRESSURE THROUGH ENTRY PORTS.

5- REMOVE SURFACE SEAL AND CLEAN SURFACE AFTER INJECTION COMPOUND HAS CURED.

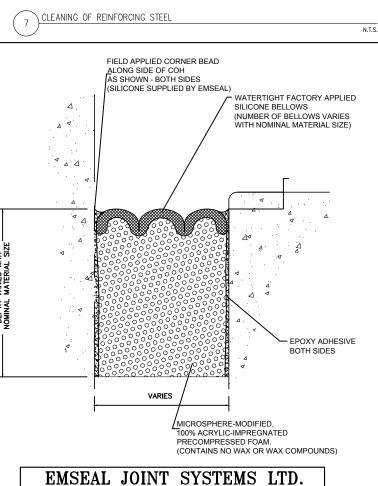
CONCRETE BEAM/SLAB CRACK REPAIR DETAIL

6- REFER TO SPECIFICATIONS FOR APPROVED MATERIALS AND MANUFACTURERS PRODUCT SPECIFIC REPAIR GUIDELINES.

9. LEVEL ANY SURFACE DEFECTS AND RESTORE THE PROFILE USING A WATERPROOFING LEVELING MORTAR. 10. PROTECT THE REPAIR AND THE REST OF THE STRUCTURE FROM CARBONATION AND FUTURE MOVEMENT CRACKS BY APPLYING A PROTECTIVE CRACK-BRIDGING, ANTI-CARBONATION COATING. FIELD APPLIED CORNE BEAD ALONG SIDE OF COH AS SHOWN - BOTH SIDES
(SILICONE SUPPLIED BY EMSEAL) SILICONE BELLOWS (NUMBER OF BELLOWS VARIES WITH NOMINAL MATERIAL SIZE



HORIZONTAL COLORSEAL - DECK TO DECK - TYPICAL



HORIZONTAL COLORSEAL - DECK TO WALL - TYPICAL

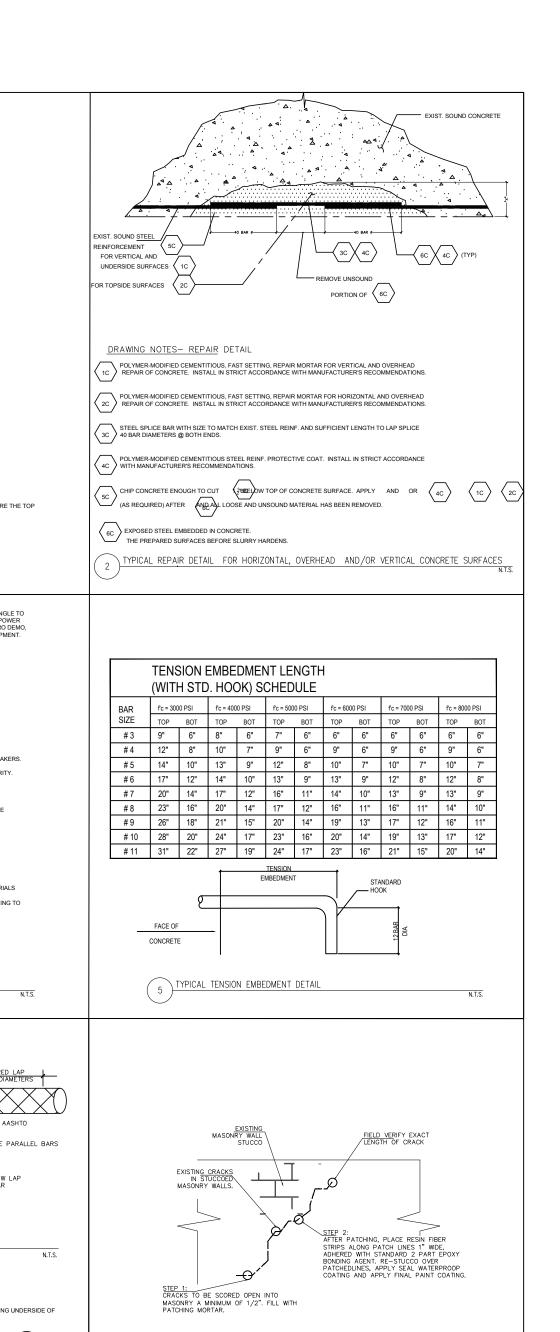
HEAVILYOXIDIZE SECTION

ALL HEAVY OXIDES AND SCALE SHOULD BE REMOVED FROM THE BAR AS NECESSAR

 Concrete Paver: w/Full Aggrega Broadcast Sikalastic Base (optional) Sikalastic Base Prepared Deck SIKALASTIC ELASTOMERIC PAVER WATERPROOFING SYSTEMS BY SIKA

(8) CMU WALL STUCCO CRACK REPAIR DETAIL (TYP.)

STRUCTURAL NOTES AND DETAILS WISTON TOWER 100 SCALE: 3/32" = 1'-0"



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CONSULTING ENGINEER

ALIOSKAR GANEM P.E.

PROJECT NAME:

CONCRETE RESTORATION

PROJECT ADDRESS:

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33160 Florida.

FL. LIC. No. 74745

KEY PLAN

DATE

Project No: Scale: AS NOTED Drawn: 08-15-2021 Checked:

CAD File: A.G. Drawing Title:



System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular Traffic
Primer	Sikafloor FTP - 300 sf/gal. Consult Sika for other primer options.		
710 Detail Coat	32 mils wet over properly treated cracks and joints		
710 Base Coat	32 mils wet (23 mils dry) - 50 sf/gal.		
715 Top Coat I	14 mils wet (10 mils dry) - 115 sf/gal.	11 mils wet (8 mils dry) - 145 sf/gal.	11 mils wet (8 mils dry) - 145 sf. gal.
Aggregate	5-10 lbs/100 sf - seeded/backrolled	10-15 lbs/100 sf - seeded	10-15 lbs/100 sf - seeded
715 Top Coat II		16 mils wet (12 mils dry) - 100 sf/gal.	16 mils wet (12 mils dry) - 100 s gal.
Aggregate			10-15 lbs/100 sf - seeded
715 Top Coat III			16 mils wet (12 mils dry) - 100 s gal.
Total Thickness	33 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	55 mils dry (excluding aggregat
See Sikalastic Al	liphatic Top Coats data sheet for top coa	at substitutions and decorative quartz an	d DecoFlake® systems.
WARNING	cured system.  Do not apply to a porous or da application and cure.  Substrate must be dry prior to proceed if rain is imminent wit after rain or inclement weathe  When applying over existing of Opening prior to final cure ma premature failure.  Vehicle fluids and some high promptly as the coating can in  On grade, unvented metal par weight concrete and asphalt of Sikalastic Traffic Systems.  Do not subject to continuous in  Base coat is not UV stable an  Top coat will chalk, fade, or diconditions. Aliphatic top coats	d must be top coated. scolor over time when exposed to UV an with superior color and gloss retention a methods and substrate conditions as we	nission will occur during et or damp surface. Do not cient time for the substrate to dry blems. ng is recommended. nt staining and subsequent fluid spills should be removed d exposure. ane conditions as well as light- used should not be coated with d under certain artificial lighting re available.
	WARNING: COMBUSTIBLE, IRI Solvent Naphtha Petroleum, Mec Aromatic (CAS: 64742-95-6) and electrical equipment, open flan ventilated areas. Causes eye/ski after prolonged contact. Harmful to some of the chemicals in this p Intentional misuse by deliberat WARNING: This product conta  Sikalastic 715 Top WARNING: COMBUSTIBLE, IRI Solvent Naphtha Petroleum, Ligh 62-5). Keep away from heat, sp in well ventilated areas. Causes zation after prolonged contact. H	RITANT, SENSITIZER: Contains Polyure dium Aliphatic (CAS: 64742-88-7), Solver Toluene Diisocyanate (CAS: 26471-62-5 ne, and other sources of ignition. DO In/respiratory irritation. May cause skin ar if swallowed. Reports have associated reproduct with permanent brain, liver, kidnet concentration and inhalation of vapins a chemical known to the State of CRITANT, SENSITIZER: Contains Polyure at Aromatic (CAS: 64742-95-6) and Tolue narks, electrical equipment, and open if sye/skin/respiratory irritation. May cause armful if swallowed. Reports have associals in this product with permanent brain, I	at Naphtha Petroleum, Light b). Keep away from heat, sparks NOT SMOKE. Use only in well dd/or respiratory sensitization epeated and prolonged exposure y and nervous system damage. ors may be harmful or fatal. california to cause cancer.  thane Prepolymer (Mixture), ne Diisocyanate (CAS: 26471- liame. DO NOT SMOKE. Use onl skin and/or respiratory sensiti- ated repeated and prolonged
	fatal.	deliberate concentration and inhalati	





SIKALASTIC 710/715 DATA SHEET

SCALE: 3/32" = 1'-0"

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KEY PLAN

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ALIOSKAR GANEM P.E. FL. LIC. No. 74745

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Drawing Title:

S-16-2

Sheet No: