

# CITY OF SANTA ROSA PARKING GARAGE #9 2017 REPAIRS

97 D. STREET  
SANTA ROSA, CA

CONTRACT NO: CO1823  
WALKER PROJECT NO: 33-1873.00



**WALKER**  
RESTORATION CONSULTANTS  
135 Main Street  
Suite 1030  
San Francisco, CA 94105  
415.644.0630 Ph  
415.644.0637 Fax  
www.walkerrestoration.com

## RESTORATION

### COVER SHEET

- R-001 GENERAL NOTES, LEGENDS AND WORK ITEM SCHEDULE
- R-005 PHASING PLAN AND GENERAL REQUIREMENTS
- R-101 LEVEL 1 REPAIR FLOOR PLAN
- R-102 LEVEL 2 REPAIR FLOOR PLAN
- R-103 LEVEL 3 REPAIR FLOOR PLAN
- R-104 TOP LEVEL DEMOLITION FLOOR PLAN
- R-105 TOP LEVEL REPAIR FLOOR PLAN
- R-501 REPAIR DETAILS
- R-502 REPAIR DETAILS
- R-503 REPAIR DETAILS
- R-504 REPAIR DETAILS

### ARCHITECTURAL GRAPHICS

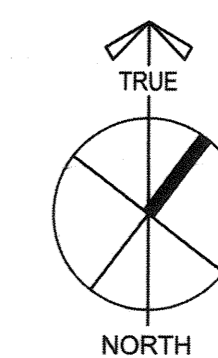
- AG-201 TOP LEVEL GRAPHICS PLAN
- AG-501 STRIPING DETAILS

### ALTERNATE #1

- ALT#1 PARKING GARAGE #1 REPAIR



LOCATION MAP



ISSUED FOR BID  
05/07/18

APPROVED: Deputy Director of Public Works - Engineering	
BY: <i>Steven Mark Resnik</i>	DATE: 5/22/18
CONTRACT NUMBER: CO1823	FILE NUMBER: 2016-0024



# GENERAL NOTES

## A. Construction

1. Construction shall be in accordance with all applicable Federal, State of California and City of Santa Rosa codes and ordinances, including Fire Codes.
2. All material properties shall be as noted in Specifications.
3. Prior to fabrication of any material or placement of concrete, FIELD VERIFY ALL EXISTING dimensions and conditions shown on Drawings. Report all discrepancies to the Engineer immediately.
4. Do Not Scale Drawings.

## B. Construction Documents

1. Construction Documents entitled "City of Santa Rosa Parking Structure #9 2017 Repairs" includes these Drawings and separately bound Specifications. For purposes of performing the work, Drawings and Specifications shall be a single unit.
2. Dimensions shown on plans are based on original construction documents. The contractor is required to field verify all conditions for the purpose of preparing the bid and performing the work.
3. Refer to Specification section 020010 for scope, description, and requirements of work.

## C. Details and Symbols

1. All cast-in-place repair details are shown on drawing R-501 thru R-504. Details labeled (FOR CLARIFICATION ONLY) do not represent a separate price item. These details supplement the basic detail to provide additional information. In some cases, these details show variation of the typical condition.
2. Where the Work Item bubble is noted "TYP," it means the work item occurs at all locations where the applicable deterioration or designation symbol occurs on that plan.
3. Where "T.A.R." is noted, it means there may be areas of this work in addition to the particular designated areas.
4. Where two or more Work Item Bubbles are grouped together, it means any or all of the designated work items may be applicable. Coordination of Work Items is Contractor's responsibility.
5. When a Work Item or Detail is listed as incidental that work is included in the pay unit of other work items and does not have a separate price.
6. When a Detail is labeled (FOR REFERENCE ONLY) it provides information only about incidental work and does not have a pay unit.
7. Contractor is responsible for determining actual extent and locations of repair areas in accordance with the specifications; work item is shown only to represent the types of deterioration.
8. See work item specification information regarding details.

## D. Concrete Protection for Reinforcement:

1. The following applies for full section replacement where shown on drawings.
  - a. The minimum concrete protection for reinforcement shall be per applicable version of ACI 318.
2. Minimum cover for reinforcing in non-pre-stressed concrete and non-post-tensioned members.
 

	Concrete Cover (inches)
a. Slab top reinforcement	1-1/2
b. Slab bottom reinforcement	3/4
c. Beam top reinforcement, U.N.	3"
d. Beam stirrups at sides and bottom of beam	1-1/2
e. Beam stirrups at top of beam	2-1/2
f. Column ties	1-1/2

\* Or 3X bar diameter, whichever is greater.

## E. Shoring and Bracing

1. Contractor shall provide all shoring, bracing, sheeting, etc. required for safety and proper execution of the work.
2. Contractor is solely responsible to prepare shop drawing for bracing and shoring members designed and stamped/sealed by a professional engineer (registered in State of California) and submit them to the Engineer for record.

## F. Existing Services and Utilities

1. Contractor shall review all existing conditions to determine all Electrical and Mechanical services and Utilities affected by the repair work. Make necessary temporary connections to maintain existing services to all areas of the parking garage or other areas (Not In Contract) affected by the work. The contractor shall submit the methods and schedule of connections for the owner's approval prior to commencement.

## G. Construction Phasing, Sequencing and Traffic Maintenance

1. Work sequence shall be coordinated with the owner's representative and garage operator.
2. Owner will continue to use garage during rehabilitation. Contractor must phase and arrange work so as to maintain access at all times to all parking areas that are not under construction for both vehicles and pedestrians.
3. Entrances and exits must remain open at all times and contractor must maintain traffic circulation.

## H. General Concrete Requirements

Refer to Section 020010 for specific uses.

1. CAST-IN-PLACE LIGHTWEIGHT CONCRETE (033021)

COMPRESSIVE STRENGTH 4000 PSI @ 28 DAYS  
 WATER-CEMENT RATIO 0.45 MAX.  
 MAX. SIZE AGGREGATE 3/4 IN.  
 AIR CONTENT 5 1/2% +/- 1 1/2%  
 CEMENT CONTENT 658 LB./C.Y. MIN.  
 AIR DRY DENSITY 110 pcf @ 56 DAYS  
 SYNTHETIC FIBER REINF POLYPROPYLENE/POLYETHYLENE MACROMONOFILAMENT FIBERS @ 5LB/C.Y. OF CONCRETE

### MOCKUP:

Before casting concrete, build mockups to verify typical joints, surface texture, tolerances, placement procedures, curing and standard of workmanship. Refer to Specification Section 020010 and 033021 for scope, description, and requirements of work.

## I. TESTING & INSPECTION NOTES

1. Following tests and inspection shall be performed by an independent testing and inspection agency employed by Owner and approved by Engineer and Building Official. Test and inspection reports shall be submitted for approval to Engineer and Building Official. Conform to requirements of IBC sections 110 and 1704.

Required Verification and Inspection	Cont.	Periodic
<b>A. Concrete Construction</b>		
1. Inspection of reinforcing steel, including prestressing tendons, and placement.		X
2. Inspection of anchors installed in hardened concrete:		
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	
b. Mechanical anchors and adhesive anchors not defined in 4a.		X
3. Inspection of anchors installed in hardened concrete.		X
4. Verifying use of required design mix.	X	X
5. Perform sampling and testing of concrete according to specifications	X	
6. Inspection of concrete and shotcrete placement for proper application techniques.	X	
7. Inspection for maintenance of specified curing temperature and techniques.		X
8. Inspect formwork for shape, location and dimensions of concrete member being formed.		X
<b>B. Steel Construction</b>		
1. Welding inspections of welds at the base of cantilevered rail posts.		X
<b>C. Deferred Submittals</b>		
A. Following items are portions of design that will not be submitted at time of building permit application. Design of these items will be performed and submitted by a specialty contractor during construction phase of project. For information see appropriate specification sections related to these items.		
1. N/A		
B. Engineer of Record shall review deferred submittal drawings and calculations prepared by Contractor and forward them to Building Official with notation indicating deferred submittal documents have been reviewed and found to be in general conformance with design requirements. Deferred submittal items shall not be installed until design and submittal documents have been approved by Building Official.		

2. Special inspector shall keep records of inspections. The special inspector shall furnish inspection reports to the owner, Licensed Engineer of record and other designated persons.

## J. Abbreviations

1. APPROX = Approximately
2. B = Bottom
3. BM = Beam
4. BOT = Bottom
5. CIP = Cast in Place
6. CJ = Construction Joint/Control Joint
7. CLR = Clearance
8. COL = Column
9. CONC = Concrete
10. DET = Detail
11. EA = Each
12. EJ = Expansion Joint
13. EXIST = Existing
14. FIN = Finished
15. FL = Floor
16. INC = Incidental
17. LF = Linear Foot
18. LS = Lump Sum
19. MAX = Maximum
20. MIN = Minimum
21. N/A = Not Applicable
22. OC = On Center
23. OH = Opposite Hand
24. P/C = Precast
25. REINF = Reinforcement
26. REQ'D = Required
27. SF = Square Foot
28. SIM = Similar
29. SOG = Slab on Grade
30. SPEC = Specification
31. SUPT = Supported
32. TAR = Typical as Required
33. TYP = Typical
34. UN or UNO = Unless Noted Otherwise
35. WI = Work Item
36. WWR = Welded Wire Reinforcement
37. ICRI = International Concrete Repair Institute
38. CSP = Concrete Surface Preparation

# GENERAL LEGEND

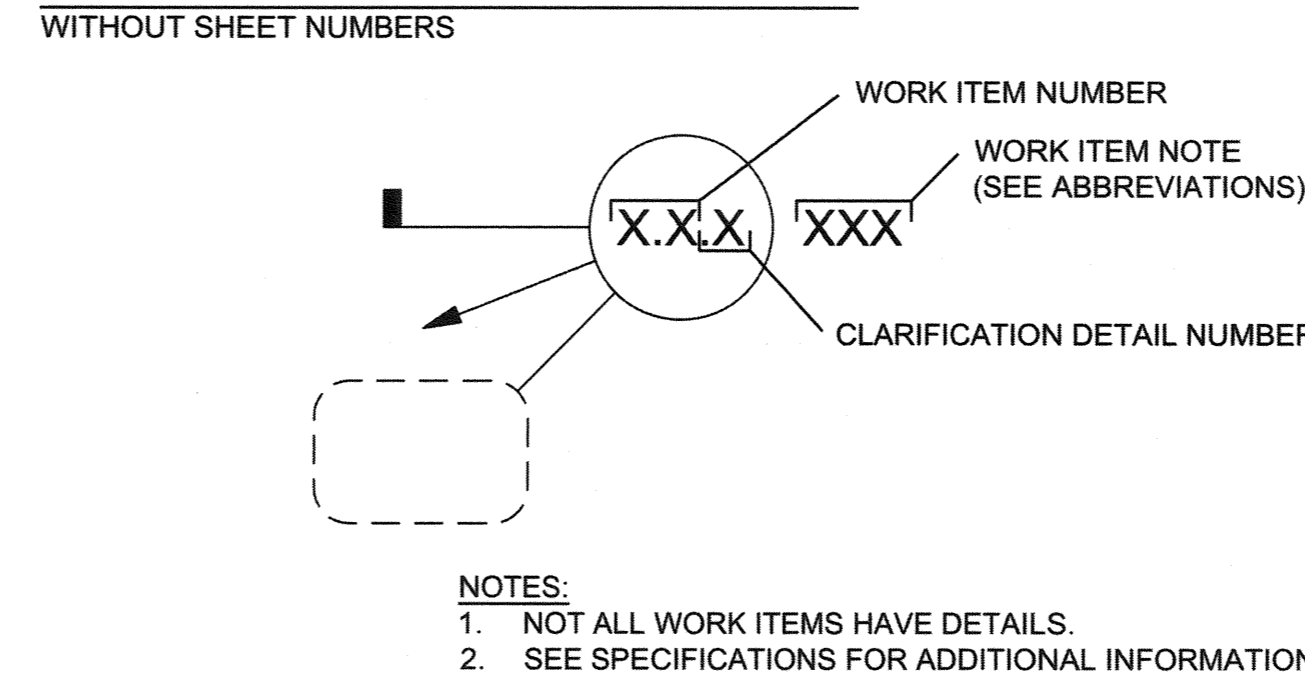
## HATCH PATTERN IDENTIFICATION

39. NOMMA	=	NATIONAL ORNAMENTAL AND MISCELLANEOUS METALS ASSOCIATION	
		BRICK	BRICK
		CONCRETE MASONRY UNIT	BLOCK
		EARTH	SOLID
		CONCRETE	NON PARKING AREAS
		GRAVEL	TRAFFIC TOPPING
		GROUT/MORTAR	CONCRETE
		SAND	EARTH
		METAL/STEEL	
		SEALANT	
		REMOVALS / REPLACEMENTS	

## LINE TYPE SYMBOL IDENTIFICATION

	=	SOLAR PANEL CANOPY
	=	DRAINAGE FLOW LINE
	=	CONSTRUCTION JOINT
	=	CONTROL JOINT
	=	EXISTING FLOOR DRAIN (FD)
	=	EXISTING FLOOR DRAIN CLEANOUT
	=	ELEVATIONS

## WORK ITEM IDENTIFICATION LEGEND



## PROJECT SCOPE

Maintenance and waterproofing repairs to existing parking structure consisting of:

1. Removal and replacement of top level concrete wear slab.
2. Installation of new waterproofing membrane.
3. Re-coating non-skid coating on stairs.
4. Removal and installation of floor drains.
5. Installation of guardrail at top level.

## BUILDING STATISTICS

Construction Type: Type 1 - Fire resistive cast-in-place reinforced concrete  
 Fire Sprinkler System Parking Garage: Fully Sprinklered All Levels  
 Occupancy parking structure group: S-2  
 Levels: 4 Stories  
 Floor Area: 174,200 sq ft  
 Parking Stalls: 448  
 ADA Parking: 9

# WORK ITEM SCHEDULE (BASE BID)

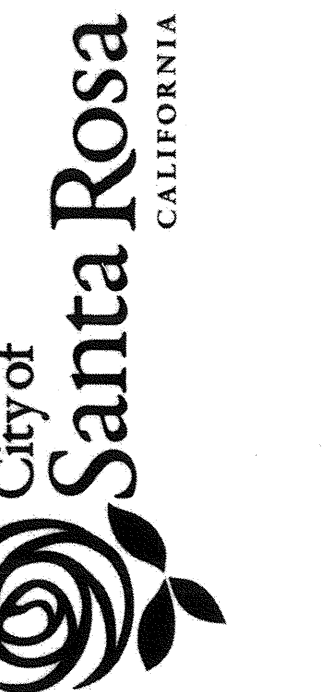
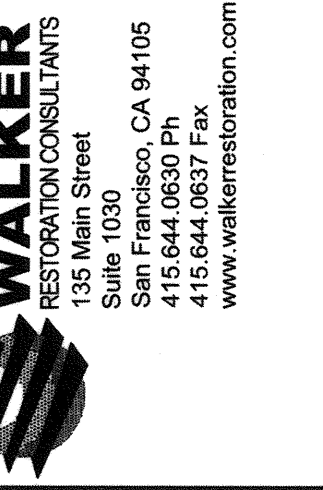
WORK ITEM	DESCRIPTION	UNITS	QUANTITY
<b>PART I: GENERAL REQUIREMENTS / PRELIMINARY MATTERS</b>			
<b>Series '1.0 GENERAL REQUIREMENTS</b>			
1.1	Project Mobilization	L.S.	1
1.2	Concrete Formwork		Incidental
1.3	Concrete Shores and Reshores		Incidental
1.4	Concrete Reinforcement		Incidental
1.5	Temporary Signage/Barricades		Incidental
1.6	Elevation Survey	L.S.	1
1.7	Solar Panel Protection	L.S.	1
1.8	Concrete Mockup		Incidental
1.9	Erosion Control		Incidental
<b>PART II: CONCRETE FLOOR / CEILING SURFACES</b>			
<b>Series '2.0 FLOOR SURFACE PREPARATION</b>			
2.1	Floor Preparation - Scarification	S.F.	47200
2.2	Floor Preparation - Existing Waterproofing Removal	S.F.	43200
<b>Series '3.0 CONCRETE FLOOR REPAIR</b>			
3.2	Floor Repair - Substrate Partial Depth/Deep	S.F.	400
3.3	Floor Repair - Full Depth	S.F.	20
3.5	Floor Repair - Wear Slab At Trench Drain	S.F.	130
3.6	Floor Repair - Wear Slab	S.F.	43200
<b>PART III: CRACKS AND JOINTS</b>			
<b>Series '11.0 CRACK AND JOINT REPAIR</b>			
11.1	Seal Cracks and Joints	L.F.	800
11.2	Joint Repair - Expansion Board/Sealant	L.F.	1600
11.4	Joint Repair - Tool, Rout and Seal Control Joints	L.F.	4000
11.5	Crack Repair - Epoxy Injection	L.F.	800
11.7	Joint Repair - Cove Sealant	L.F.	1900
11.9	Crack Repair - Healer / Sealer	S.F.	4000
<b>PART V: FLOOR SURFACE PROTECTION</b>			
<b>Series '14.0 EPOXY OVERLAY</b>			
14.1	Epoxy Broadcast Overlay System	S.F.	1100
<b>16.0 TRAFFIC TOPPING</b>			
16.3	Traffic Topping - Repair	S.F.	200
16.4	Traffic Topping - Recoat (Partial System)	S.F.	4100
<b>PART VII: MECHANICAL / ELECTRICAL SYSTEMS</b>			
<b>Series '25.0 MECHANICAL - DRAINAGE</b>			
25.3	Mechanical - Pipe and Hangers	L.F.	220
25.4	Mechanical - Existing Cleanout Removal	EA.	17
25.7	Mechanical - Bi-Level Repair	EA.	22
<b>PART VIII: ARCHITECTURAL REPAIRS</b>			
<b>Series '43.0 MISCELLANEOUS - METALS</b>			
43.1	Handrail - Install Guardrail	L.F.	85
43.2	Handrail - Install Guardrail	L.F.	430
<b>Series '45.0 PAINTING</b>			
45.1	Paint Traffic Markings (Top Level)	L.S.	1
<b>PART X: WEAR SLAB SYSTEMS</b>			
<b>Series '50.0 WEAR SLAB SYSTEM - DEMOLITION</b>			
50.1	Wear Slab System - Demolition Concrete System	S.F.	43200
<b>Series '51.0 FLOOR SLAB SYSTEM - WATERPROOFING</b>			
51.1	Fluid Applied Waterproofing with Protection Board	S.F.	43200
<b>Series '52.0 FLOOR SLAB - DRAINAGE COURSE/SLIP SHEET</b>			
52.1	Wear Slab - Drainage Course	S.F.	43200
52.2	Wear Slab - Slip Sheet	S.F.	43200

## WORK ITEM SCHEDULE (ALTERNATE)

<b>ALTERNATE</b>			
21.0	P/T SYSTEM REPAIR - MONOSTRAND		
21.1	P/T System Repair- Tendon Replacement Repair	EA.	1
21.3	P/T Tendon End Anchorage (Live)	EA.	1
21.4	P/T Tendon End Anchorage (Dead)	EA.	1
21.9	P/T Tendon Material	L.F.	65

### NOTES:

1. REPAIR QUANTITIES IN SCHEDULE ARE REPRESENTATIVE AT THE TIME OF SURVEY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL EXTENT AND LOCATIONS OF REPAIR AREAS IN ACCORDANCE WITH THE SPECIFICATIONS. WORK ITEMS ARE SHOWN ONLY TO REPRESENT THE TYPES OF DETERIORATION.
2. OWNER RESERVES THE RIGHT TO INCREASE/DECREASE QUANTITIES AS NECESSARY.



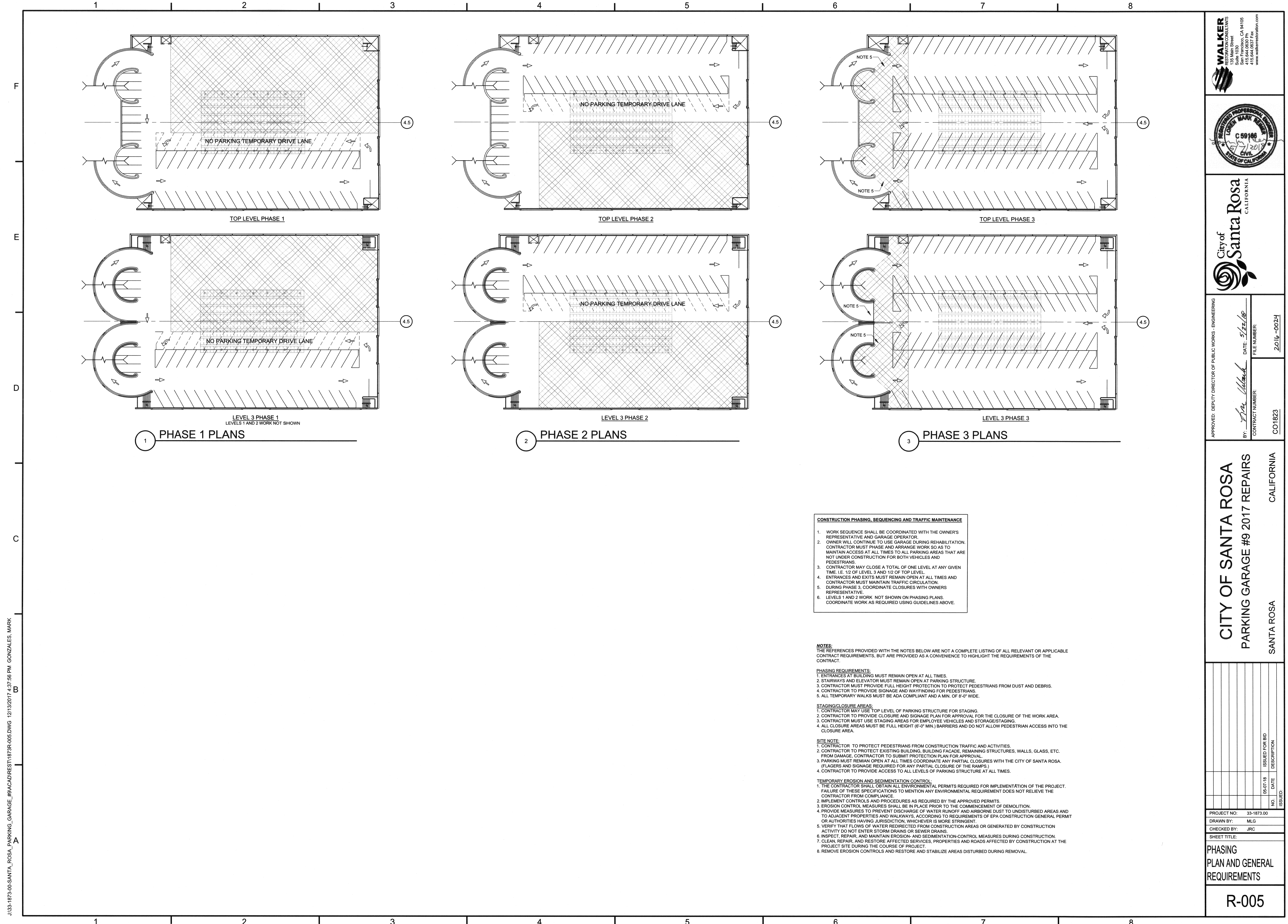
APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
 BY: *Mark Walker* DATE: 5/22/18  
 CONTRACT NUMBER: CO1823  
 FILE NUMBER: 2016-0024

CITY OF SANTA ROSA  
 PARKING GARAGE #9 2017 REPAIRS  
 SANTA ROSA CALIFORNIA

NO.	DATE	ISSUED FOR	DESCRIPTION
	12-04-17	ISSUED FOR BID	

PROJECT NO: 33-1873.00  
 DRAWN BY: MLG  
 CHECKED BY: JRC  
 SHEET TITLE: GENERAL NOTES, LEGENDS AND WORK ITEMS  
**R-001**





**1 PHASE 1 PLANS**

**2 PHASE 2 PLANS**

**3 PHASE 3 PLANS**

**CONSTRUCTION PHASING, SEQUENCING AND TRAFFIC MAINTENANCE**

1. WORK SEQUENCE SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE AND GARAGE OPERATOR.
2. OWNER WILL CONTINUE TO USE GARAGE DURING REHABILITATION. CONTRACTOR MUST PHASE AND ARRANGE WORK SO AS TO MAINTAIN ACCESS AT ALL TIMES TO ALL PARKING AREAS THAT ARE NOT UNDER CONSTRUCTION FOR BOTH VEHICLES AND PEDESTRIANS.
3. CONTRACTOR MAY CLOSE A TOTAL OF ONE LEVEL AT ANY GIVEN TIME, I.E. 1/2 OF LEVEL 3 AND 1/2 OF TOP LEVEL.
4. ENTRANCES AND EXITS MUST REMAIN OPEN AT ALL TIMES AND CONTRACTOR MUST MAINTAIN TRAFFIC CIRCULATION.
5. DURING PHASE 3, COORDINATE CLOSURES WITH OWNERS REPRESENTATIVE.
6. LEVELS 1 AND 2 WORK NOT SHOWN ON PHASING PLANS. COORDINATE WORK AS REQUIRED USING GUIDELINES ABOVE.

**NOTES:**  
THE REFERENCES PROVIDED WITH THE NOTES BELOW ARE NOT A COMPLETE LISTING OF ALL RELEVANT OR APPLICABLE CONTRACT REQUIREMENTS, BUT ARE PROVIDED AS A CONVENIENCE TO HIGHLIGHT THE REQUIREMENTS OF THE CONTRACT.

**PHASING REQUIREMENTS:**

1. ENTRANCES AT BUILDING MUST REMAIN OPEN AT ALL TIMES.
2. STAIRWAYS AND ELEVATOR MUST REMAIN OPEN AT PARKING STRUCTURE.
3. CONTRACTOR MUST PROVIDE FULL HEIGHT PROTECTION TO PROTECT PEDESTRIANS FROM DUST AND DEBRIS.
4. CONTRACTOR TO PROVIDE SIGNAGE AND WAYFINDING FOR PEDESTRIANS.
5. ALL TEMPORARY WALKS MUST BE ADA COMPLIANT AND A MIN. OF 8'-0" WIDE.

**STAGING/CLOSURE AREAS:**

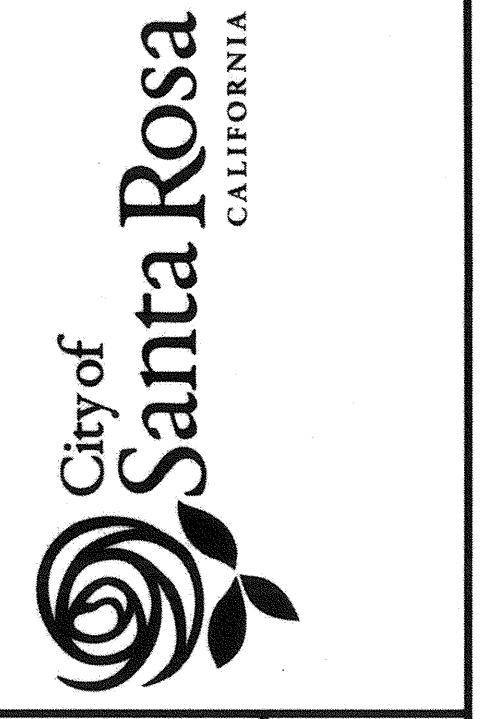
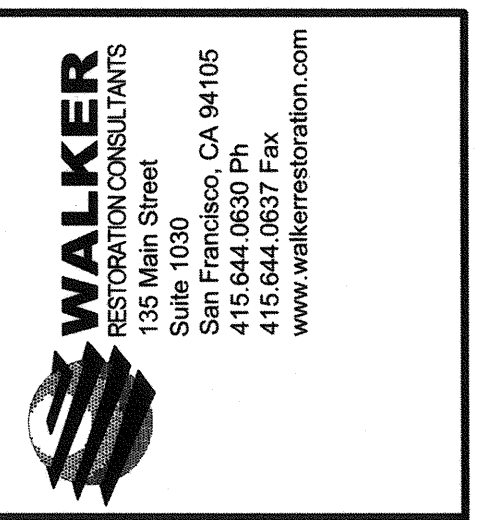
1. CONTRACTOR MAY USE TOP LEVEL OF PARKING STRUCTURE FOR STAGING.
2. CONTRACTOR TO PROVIDE CLOSURE AND SIGNAGE PLAN FOR APPROVAL FOR THE CLOSURE OF THE WORK AREA.
3. CONTRACTOR MUST USE STAGING AREAS FOR EMPLOYEE VEHICLES AND STORAGE/STAGING.
4. ALL CLOSURE AREAS MUST BE FULL HEIGHT (6'-0" MIN.) BARRIERS AND DO NOT ALLOW PEDESTRIAN ACCESS INTO THE CLOSURE AREA.

**SITE NOTE:**

1. CONTRACTOR TO PROTECT PEDESTRIANS FROM CONSTRUCTION TRAFFIC AND ACTIVITIES.
2. CONTRACTOR TO PROTECT EXISTING BUILDING, BUILDING FACADE, REMAINING STRUCTURES, WALLS, GLASS, ETC. FROM DAMAGE. CONTRACTOR TO SUBMIT PROTECTION PLAN FOR APPROVAL.
3. PARKING MUST REMAIN OPEN AT ALL TIMES COORDINATE ANY PARTIAL CLOSURES WITH THE CITY OF SANTA ROSA. (FLAGERS AND SIGNAGE REQUIRED FOR ANY PARTIAL CLOSURE OF THE RAMPS.)
4. CONTRACTOR TO PROVIDE ACCESS TO ALL LEVELS OF PARKING STRUCTURE AT ALL TIMES.

**TEMPORARY EROSION AND SEDIMENTATION CONTROL:**

1. THE CONTRACTOR SHALL OBTAIN ALL ENVIRONMENTAL PERMITS REQUIRED FOR IMPLEMENTATION OF THE PROJECT. FAILURE OF THESE SPECIFICATIONS TO MENTION ANY ENVIRONMENTAL REQUIREMENT DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE.
2. IMPLEMENT CONTROLS AND PROCEDURES AS REQUIRED BY THE APPROVED PERMITS.
3. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF DEMOLITION.
4. PROVIDE MEASURES TO PREVENT DISCHARGE OF WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO REQUIREMENTS OF EPA CONSTRUCTION GENERAL PERMIT OR AUTHORITIES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.
5. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER STORM DRAINS OR SEWER DRAINS.
6. INSPECT, REPAIR, AND MAINTAIN EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION.
7. CLEAN, REPAIR, AND RESTORE AFFECTED SERVICES, PROPERTIES AND ROADS AFFECTED BY CONSTRUCTION AT THE PROJECT SITE DURING THE COURSE OF PROJECT.
8. REMOVE EROSION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.



APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
 BY: *Don Wilbeck* DATE: 5/22/16  
 CONTRACT NUMBER: FILE NUMBER: 2016-0024  
 CO1823

**CITY OF SANTA ROSA**  
**PARKING GARAGE #9 2017 REPAIRS**  
 SANTA ROSA CALIFORNIA

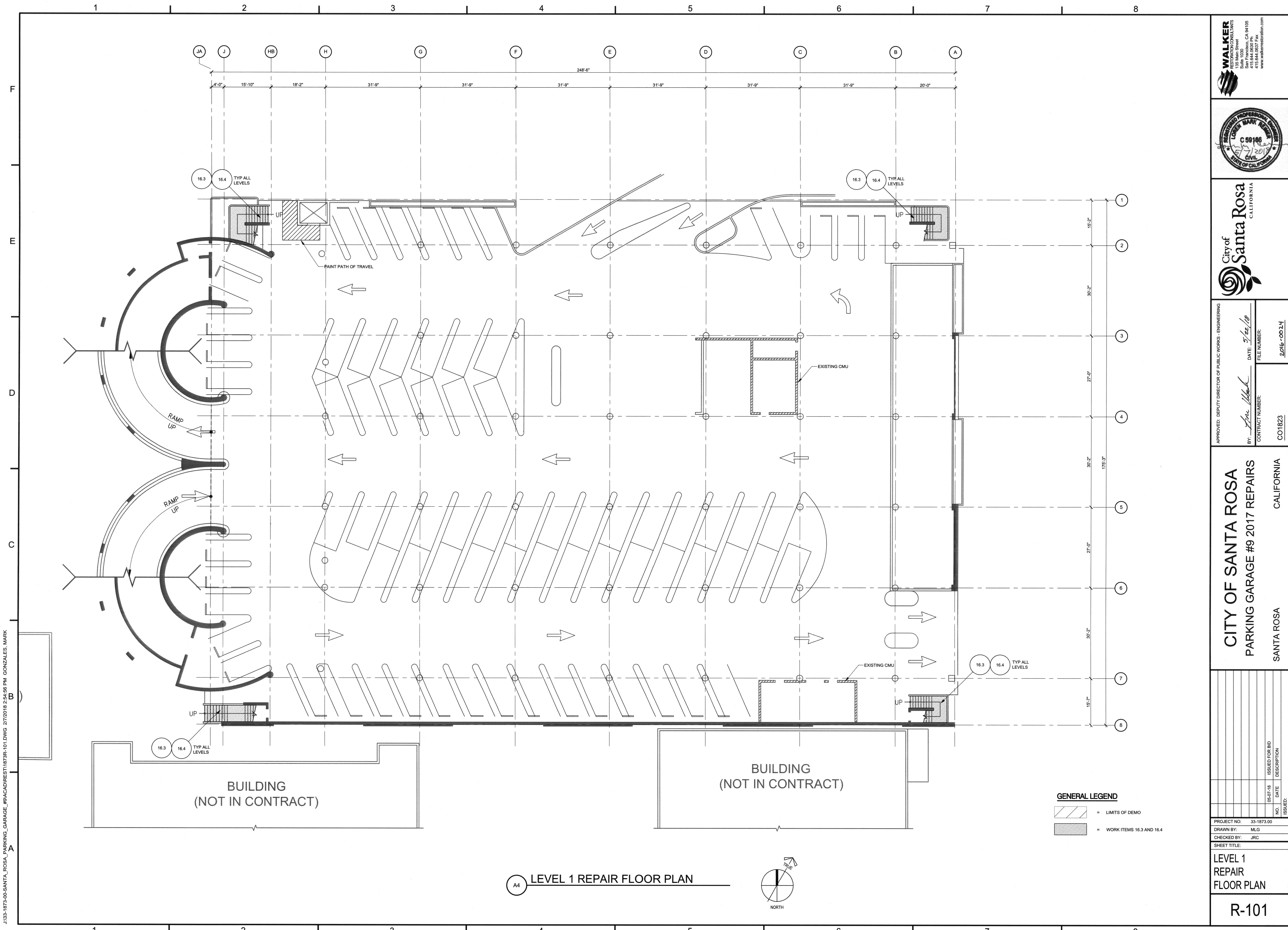
NO.	DATE	DESCRIPTION	ISSUED
06-07-18		ISSUED FOR BID	

PROJECT NO: 33-1873.00  
 DRAWN BY: MLG  
 CHECKED BY: JRC  
 SHEET TITLE:  
**PHASING PLAN AND GENERAL REQUIREMENTS**

**R-005**

J:\33-1873-00-SANTA\_ROSA\_PARKING\_GARAGE\_#9\CADD\REST1873R-005.DWG 12/19/2017 4:37:56 PM GONZALES, MARK


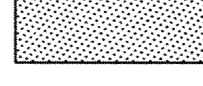




J:\33-1873-00-SANTA ROSA, PARKING\_GARAGE\_#9\ACAD\REST\1873R-101.DWG 27/2018 2:54:56 PM GONZALES, MARK

**A4 LEVEL 1 REPAIR FLOOR PLAN**

**GENERAL LEGEND**

	= LIMITS OF DEMO
	= WORK ITEMS 16.3 AND 16.4

**WALKER**  
RESTORATION CONSULTANTS  
3000 Mission Street  
San Francisco, CA 94105  
415.644.0630 PH  
www.walkerrestoration.com

REGISTERED PROFESSIONAL ENGINEER  
LARRY MARK WALKER  
C 55186  
P.E.  
STATE OF CALIFORNIA

**City of Santa Rosa**  
CALIFORNIA

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING

BY: *Steve Walsh* DATE: 5/22/18

CONTRACT NUMBER: FILE NUMBER: 2016-0524

CO1823

**CITY OF SANTA ROSA**  
PARKING GARAGE #9 2017 REPAIRS

SANTA ROSA CALIFORNIA

NO.	DATE	ISSUED FOR BID DESCRIPTION

PROJECT NO: 33-1873.00

DRAWN BY: MLG

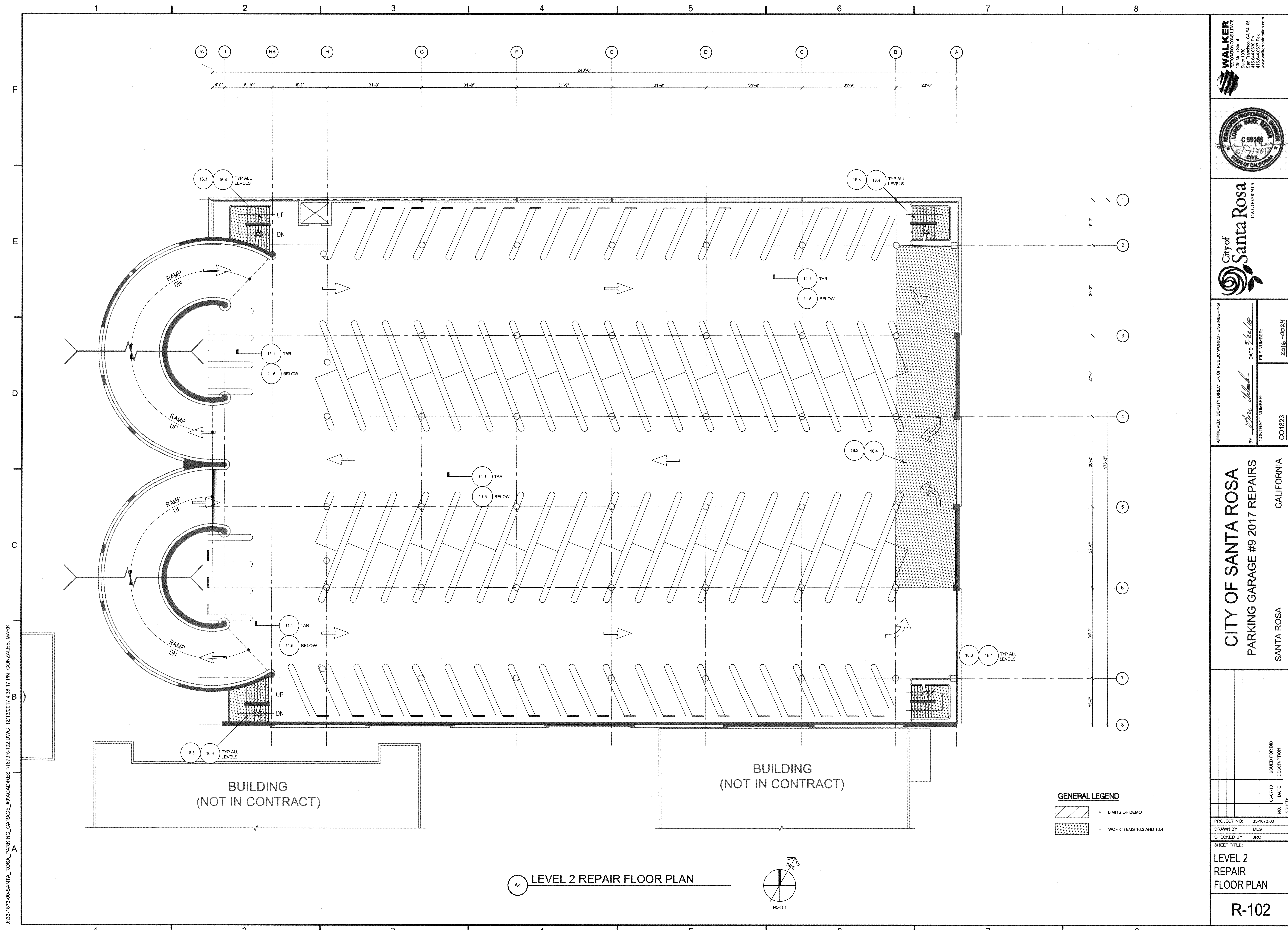
CHECKED BY: JRC

SHEET TITLE:

**LEVEL 1 REPAIR FLOOR PLAN**

R-101

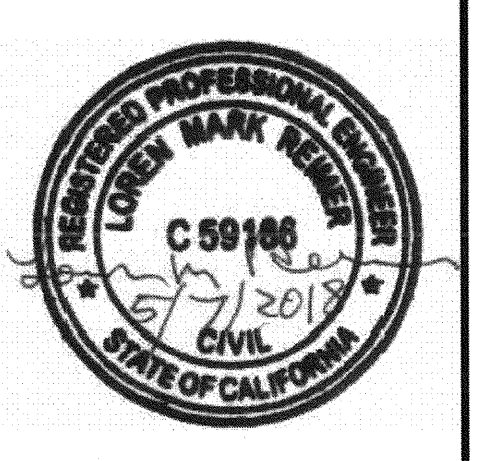




J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE\_#9\ACAD\REST11873R-102.DWG 12/13/2017 4:38:17 PM GONZALES, MARK

**A4 LEVEL 2 REPAIR FLOOR PLAN**

**WALKER**  
RESTORATION CONSULTANTS  
132 Main Street  
San Francisco, CA 94105  
415.644.0630 Ph  
www.walkerrestoration.com



City of  
**Santa Rosa**  
CALIFORNIA

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
BY: *[Signature]* DATE: 5/24/18  
FILE NUMBER: 2016-0024  
CONTRACT NUMBER: C01823

**CITY OF SANTA ROSA**  
**PARKING GARAGE #9 2017 REPAIRS**  
SANTA ROSA CALIFORNIA

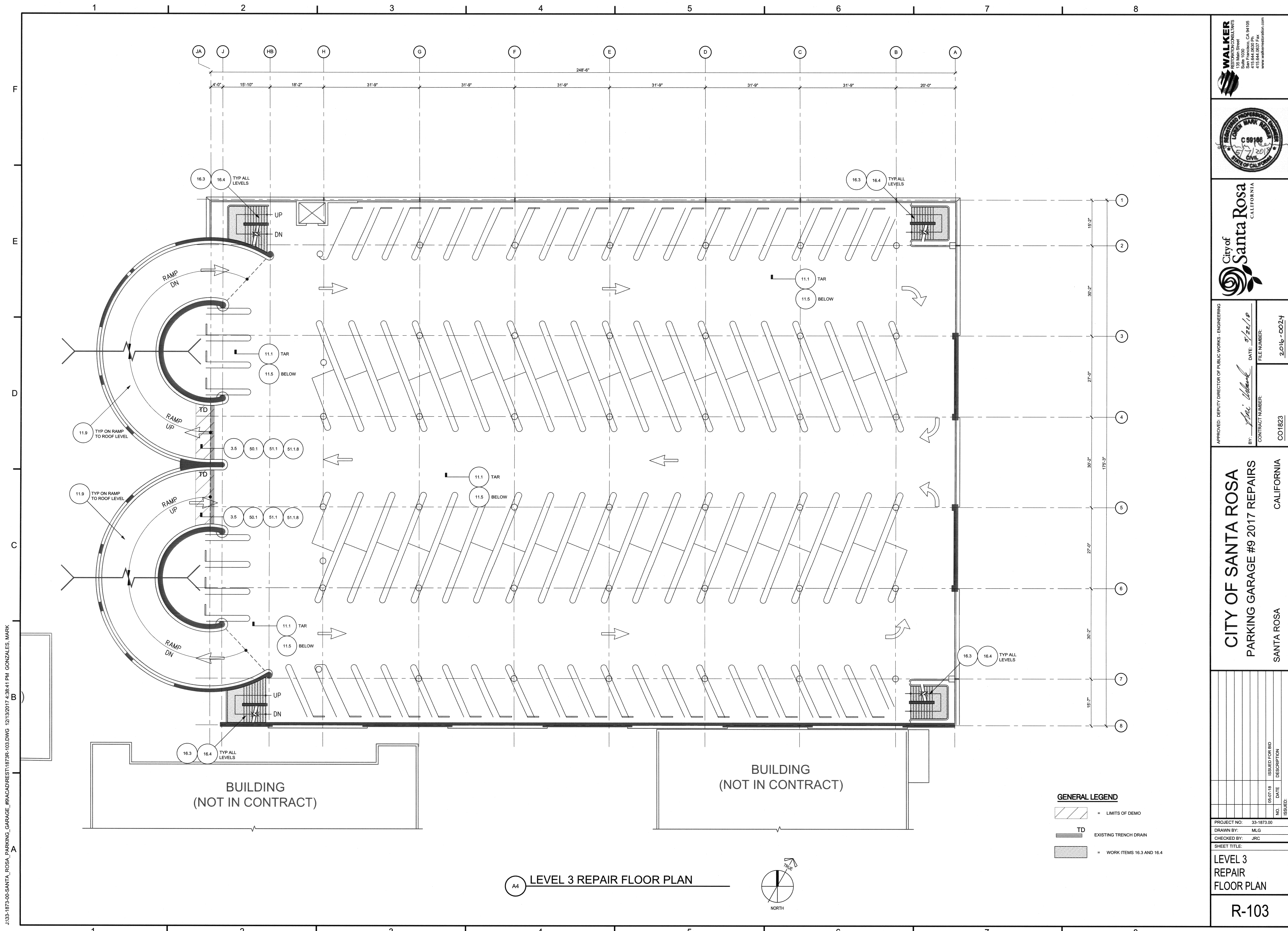
NO.	DATE	ISSUED FOR BID	DESCRIPTION

PROJECT NO: 33-1873.00  
DRAWN BY: MLG  
CHECKED BY: JRC  
SHEET TITLE:

**LEVEL 2 REPAIR FLOOR PLAN**

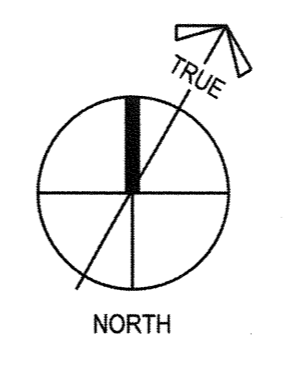
**R-102**





J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE\_#9\ACAD\REST11875R-103.DWG 12/13/2017 4:38:41 PM GONZALES, MARK

**A4 LEVEL 3 REPAIR FLOOR PLAN**



- GENERAL LEGEND**
- = LIMITS OF DEMO
  - = EXISTING TRENCH DRAIN
  - = WORK ITEMS 16.3 AND 16.4

**WALKER**  
RESTORATION CONSULTANTS  
132 Main Street  
San Francisco, CA 94105  
415.644.0830 Ph  
www.walkerrestoration.com



City of **Santa Rosa**  
CALIFORNIA

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
BY: *Debi Walker* DATE: 5/22/18  
CONTRACT NUMBER: CO1823  
FILE NUMBER: 2016-0024

**CITY OF SANTA ROSA**  
PARKING GARAGE #9 2017 REPAIRS  
SANTA ROSA CALIFORNIA

NO.	DATE	ISSUED FOR BID	DESCRIPTION	ISSUED
05-07-18				

PROJECT NO: 33-1873.00  
DRAWN BY: MLG  
CHECKED BY: JRC

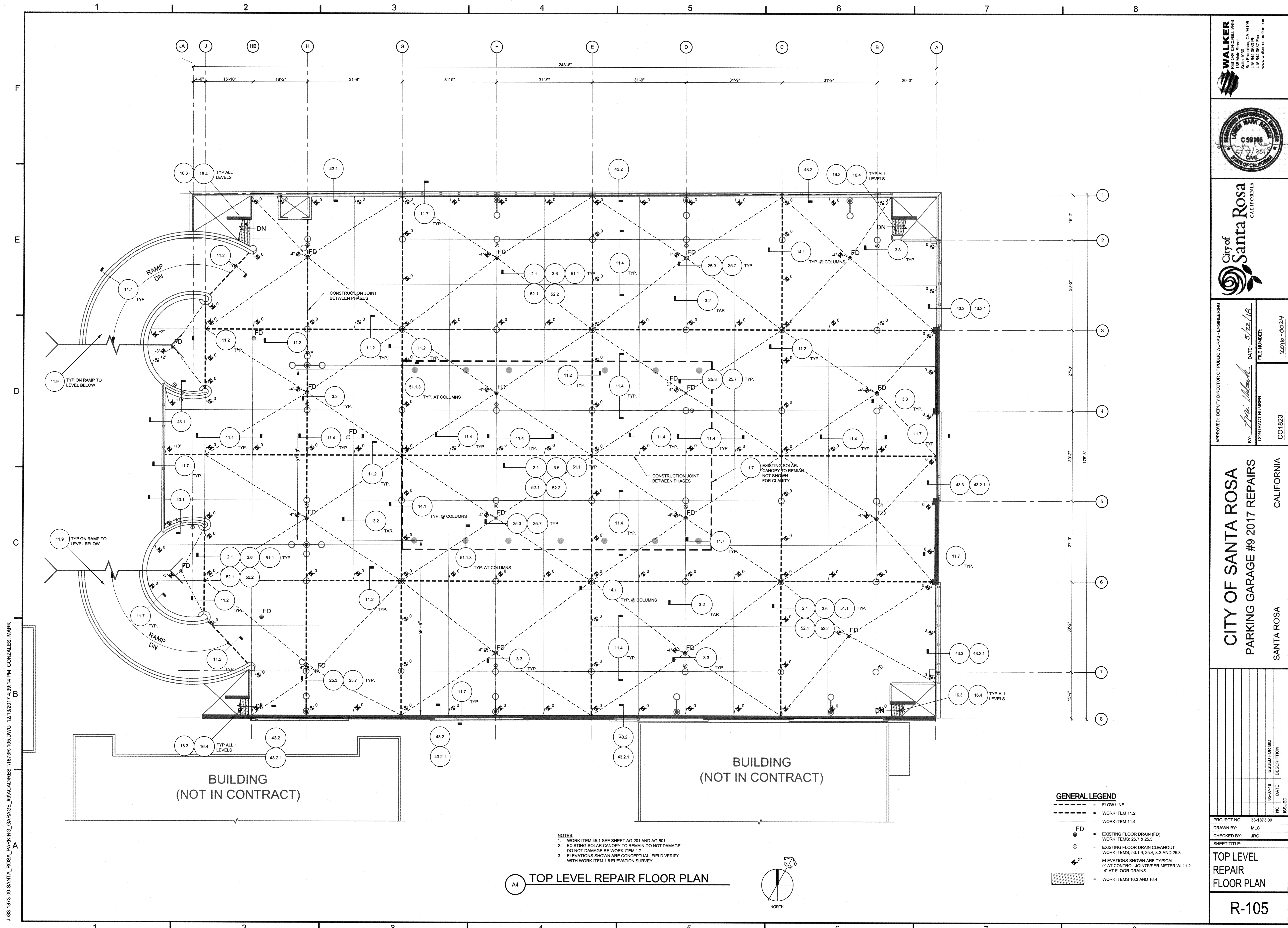
**LEVEL 3 REPAIR FLOOR PLAN**

**R-103**



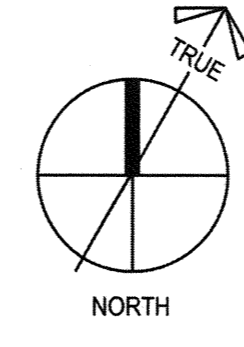






**NOTES:**  
 1. WORK ITEM 45.1 SEE SHEET AG-201 AND AG-501.  
 2. EXISTING SOLAR CANOPY TO REMAIN DO NOT DAMAGE DO NOT DAMAGE RE WORK ITEM 1.7.  
 3. ELEVATIONS SHOWN ARE CONCEPTUAL FIELD VERIFY WITH WORK ITEM 1.6 ELEVATION SURVEY.

**A4 TOP LEVEL REPAIR FLOOR PLAN**



- GENERAL LEGEND**
- = FLOW LINE
  - - - = WORK ITEM 11.2
  - - - = WORK ITEM 11.4
  - FD = EXISTING FLOOR DRAIN (FD)
  - ⊗ = EXISTING FLOOR DRAIN CLEANOUT
  - ⊗ = EXISTING FLOOR DRAIN CLEANOUT WORK ITEMS: 25.7 & 25.3
  - ⊗ = EXISTING FLOOR DRAIN CLEANOUT WORK ITEMS: 50.1.3, 25.4, 3.3 AND 25.3
  - ⊗ = ELEVATIONS SHOWN ARE TYPICAL
  - ⊗ = 0" AT CONTROL JOINTS/PERIMETER W/ 11.2
  - ⊗ = 4" AT FLOOR DRAINS
  - = WORK ITEMS 16.3 AND 16.4

J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE#\ACADREST\1873R-105.DWG 12/13/2017 4:39:14 PM GONZALES, MARK

**WALKER**  
 RESTORATION CONSULTANTS  
 135 Main Street  
 San Francisco, CA 94105  
 415.644.0830 Ph  
 www.walkerrestoration.com



City of Santa Rosa  
 CALIFORNIA

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
 BY: *David Walker* DATE: 5/22/18  
 CONTRACT NUMBER: FILE NUMBER: 2016-0024  
 CO1823

**CITY OF SANTA ROSA**  
**PARKING GARAGE #9 2017 REPAIRS**  
 SANTA ROSA CALIFORNIA

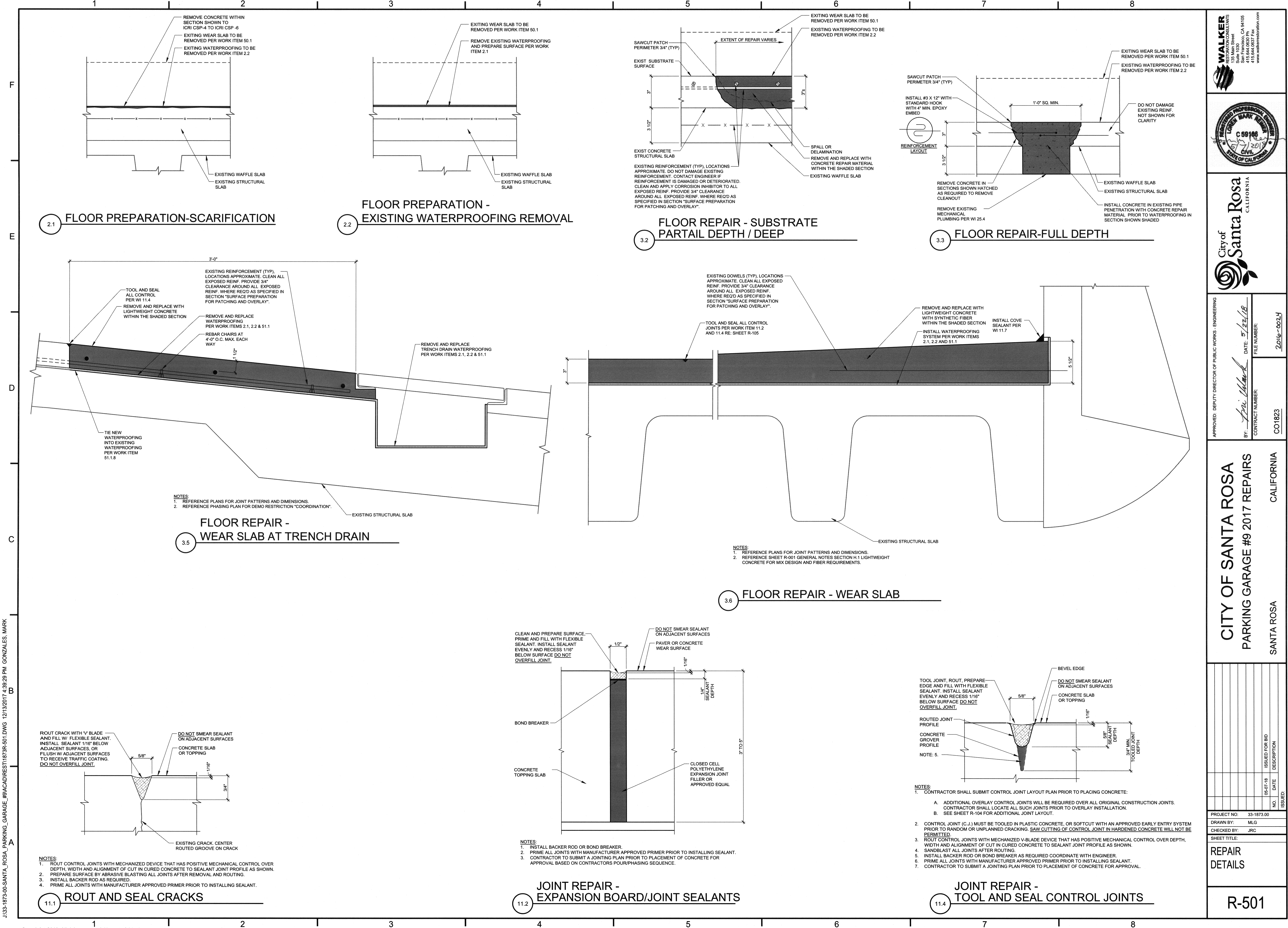
NO.	ISSUED FOR BID	DATE	DESCRIPTION	ISSUED

PROJECT NO: 33-1873.00  
 DRAWN BY: MLG  
 CHECKED BY: JRC

SHEET TITLE:  
**TOP LEVEL REPAIR FLOOR PLAN**

**R-105**





J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE\_#9\ACAD\RESIST\1873R-501.DWG 12/13/2017 4:39:29 PM GONZALES, MARK

**WALKER**  
 RESTORATION CONSULTANTS  
 135 Main Street  
 Suite 1000  
 Santa Rosa, CA 94105  
 415.644.0830 Ph  
 415.644.0837 Fax  
 www.walkerrestoration.com



City of **Santa Rosa**  
 CALIFORNIA

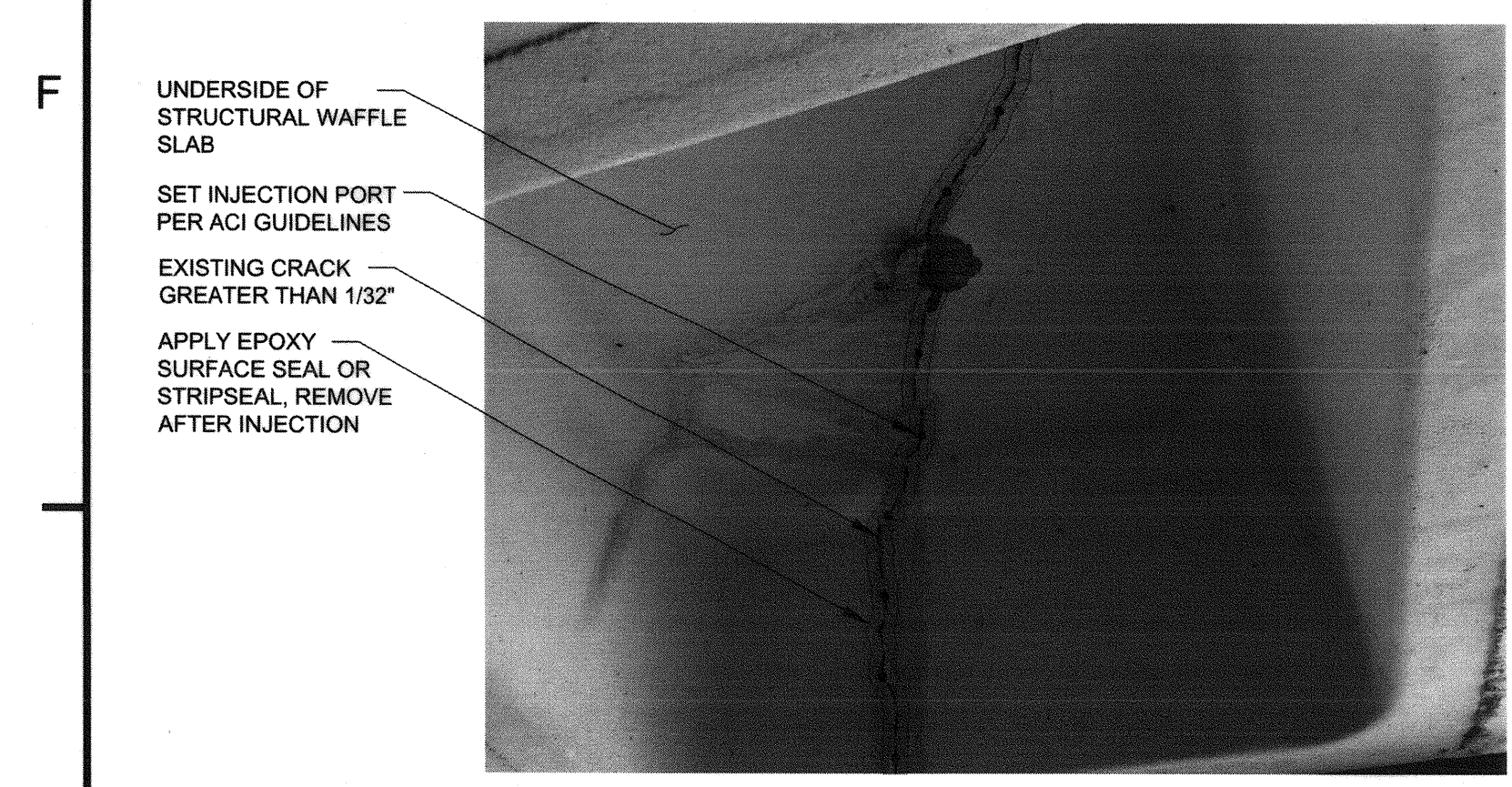
APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
 BY: *Lorey Mark Gonzales* DATE: 5/22/18  
 FILE NUMBER: 2016-0024  
 CONTRACT NUMBER: CO1823

**CITY OF SANTA ROSA**  
**PARKING GARAGE #9 2017 REPAIRS**  
 CALIFORNIA  
 SANTA ROSA

NO.	DATE	ISSUED FOR	DESCRIPTION
15-07-18		ISSUED FOR BID	
		ISSUED	

PROJECT NO: 33-1873.00  
 DRAWN BY: MLG  
 CHECKED BY: JRC  
 SHEET TITLE:  
**REPAIR DETAILS**  
**R-501**

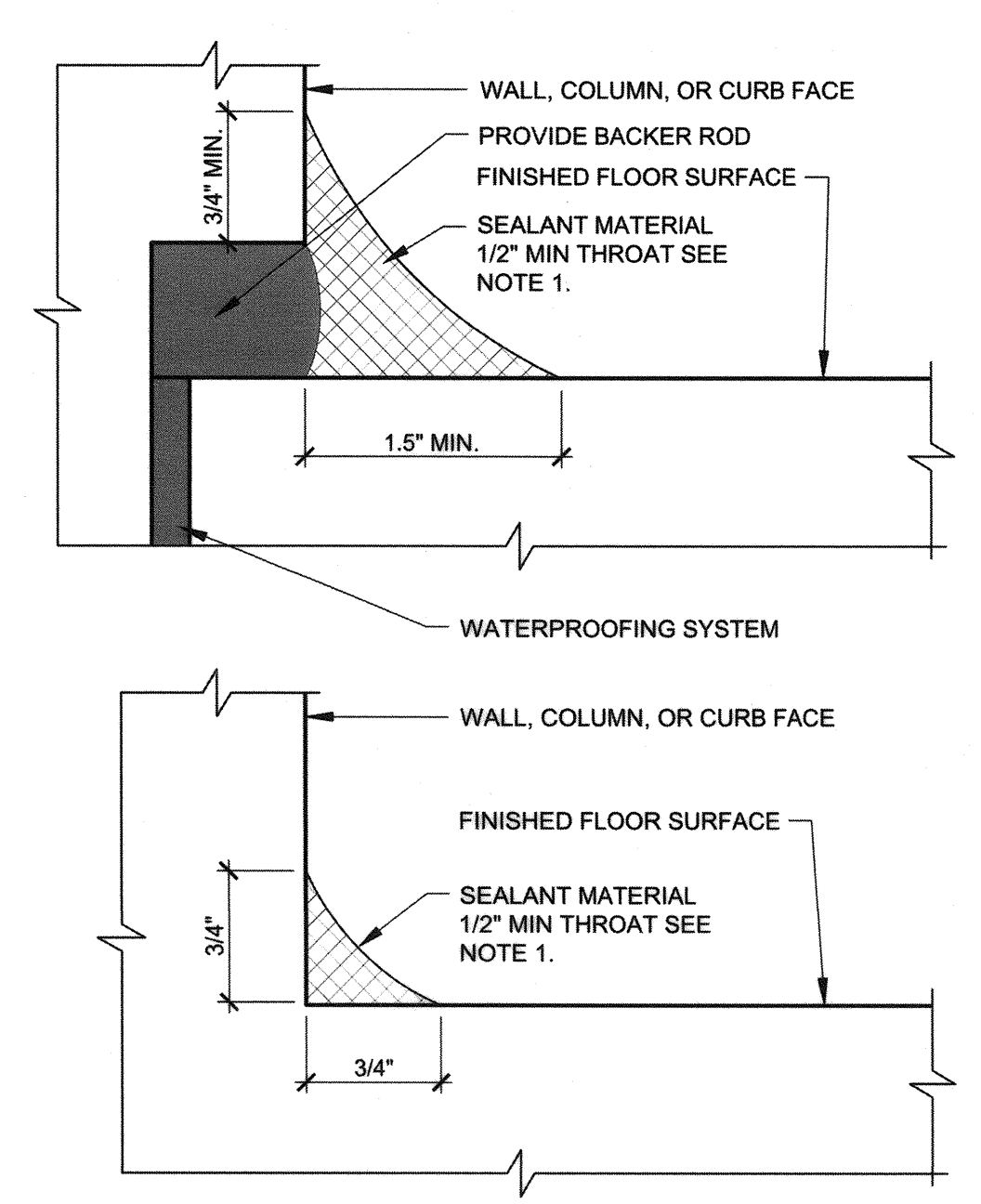




**UNDERSIDE OF STRUCTURAL WAFFLE SLAB**  
**SET INJECTION PORT PER ACI GUIDELINES**  
**EXISTING CRACK GREATER THAN 1/32"**  
**APPLY EPOXY SURFACE SEAL OR STRIPSEAL REMOVE AFTER INJECTION**

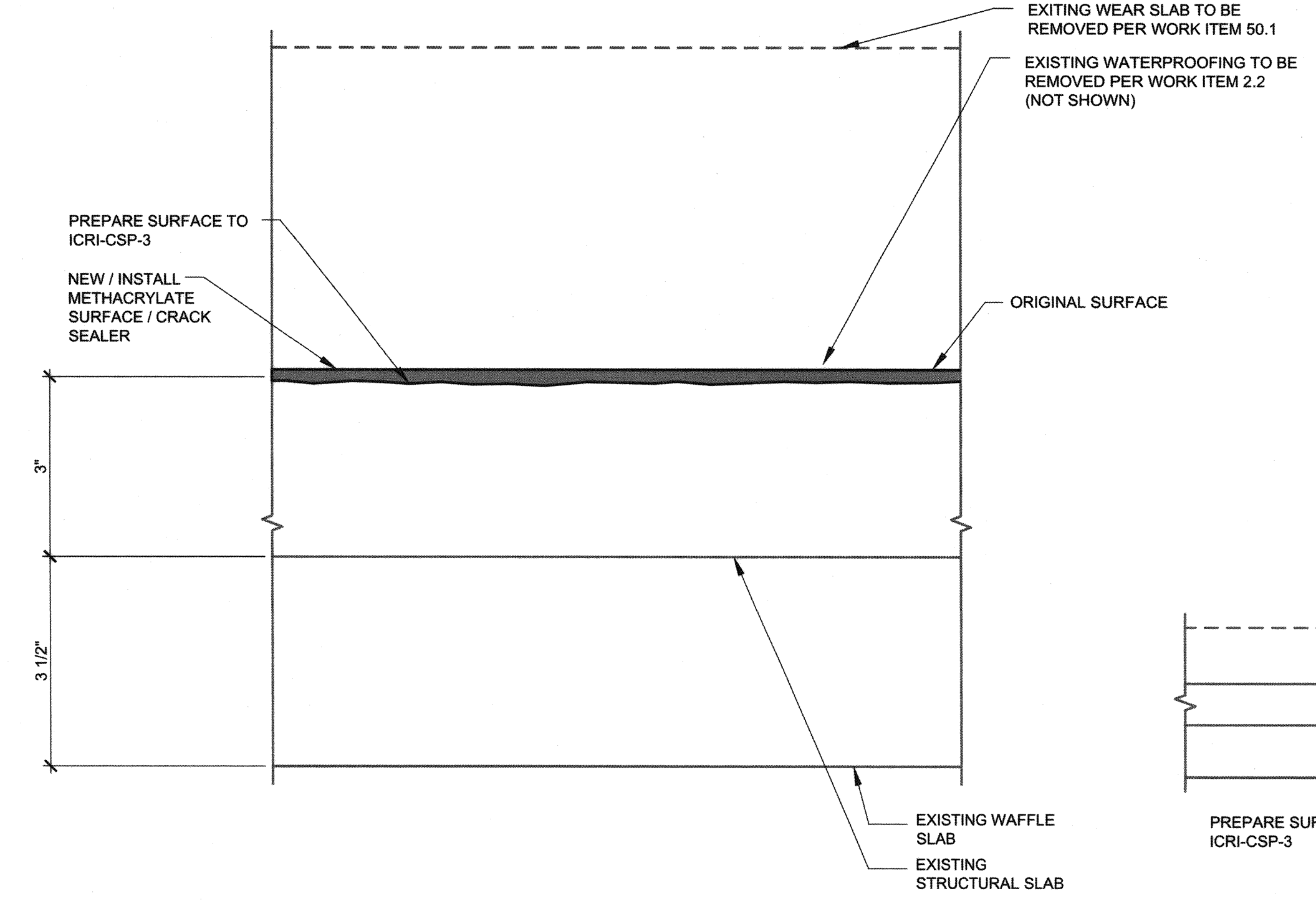
**NOTES:**  
 1. PAY ITEM IS LINEAL FOOTAGE OF CONTROL JOINT ABOVE, VERTICAL INJECTION IS INCIDENTAL.  
 2. CONTRACTOR TO FOLLOW ACI GUIDELINES 503R FOR EPOXY INJECTION.  
 3. CONTRACTOR SHALL REMOVE ALL PORTS AND SURFACE SEAL MATERIALS AFTER INJECTION IS COMPLETE.  
 4. PAINT CEILING TO MATCH.

11.5 JOINT REPAIR - EPOXY INJECTION

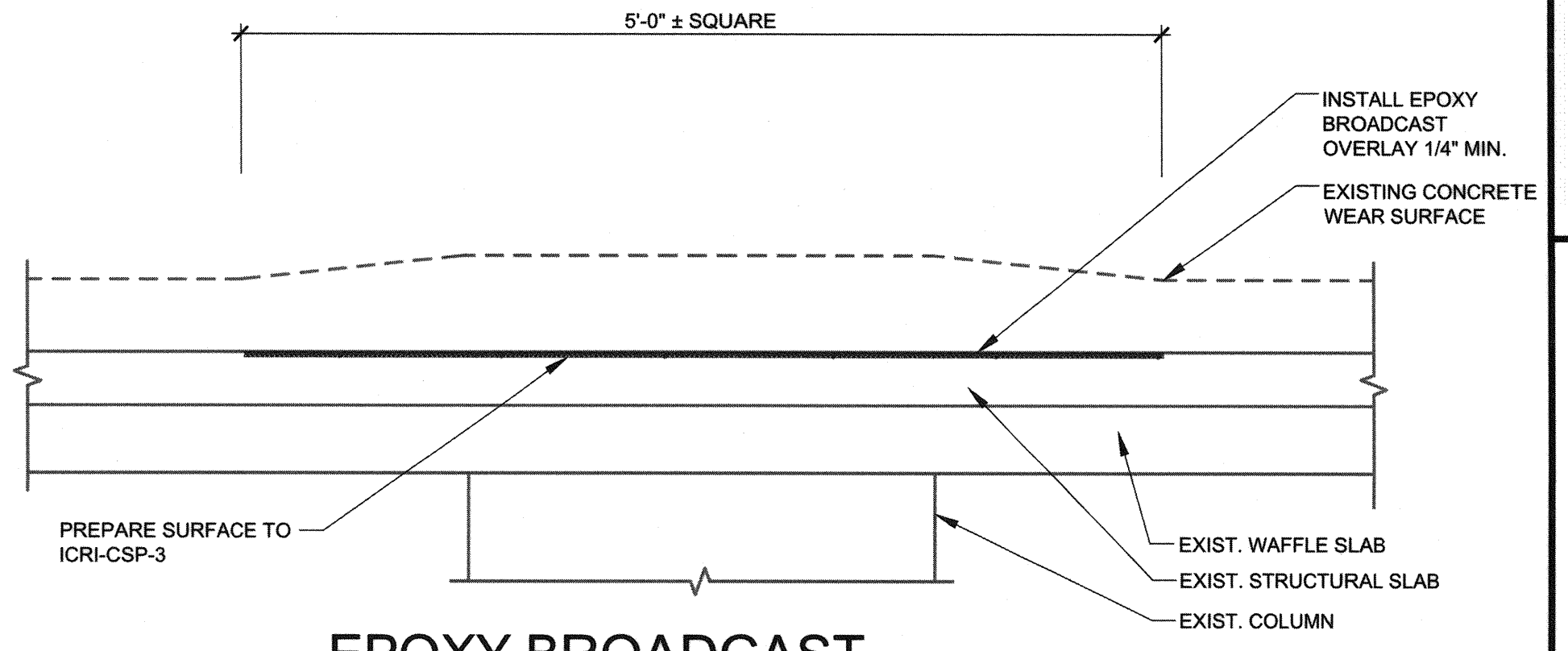


**NOTE:**  
 1. REMOVE EXISTING COVE SEALANT MATERIAL IF PRESENT. PREPARE SURFACE BY ABRASIVE BLASTING, PRIME AND INSTALL SEALANT.

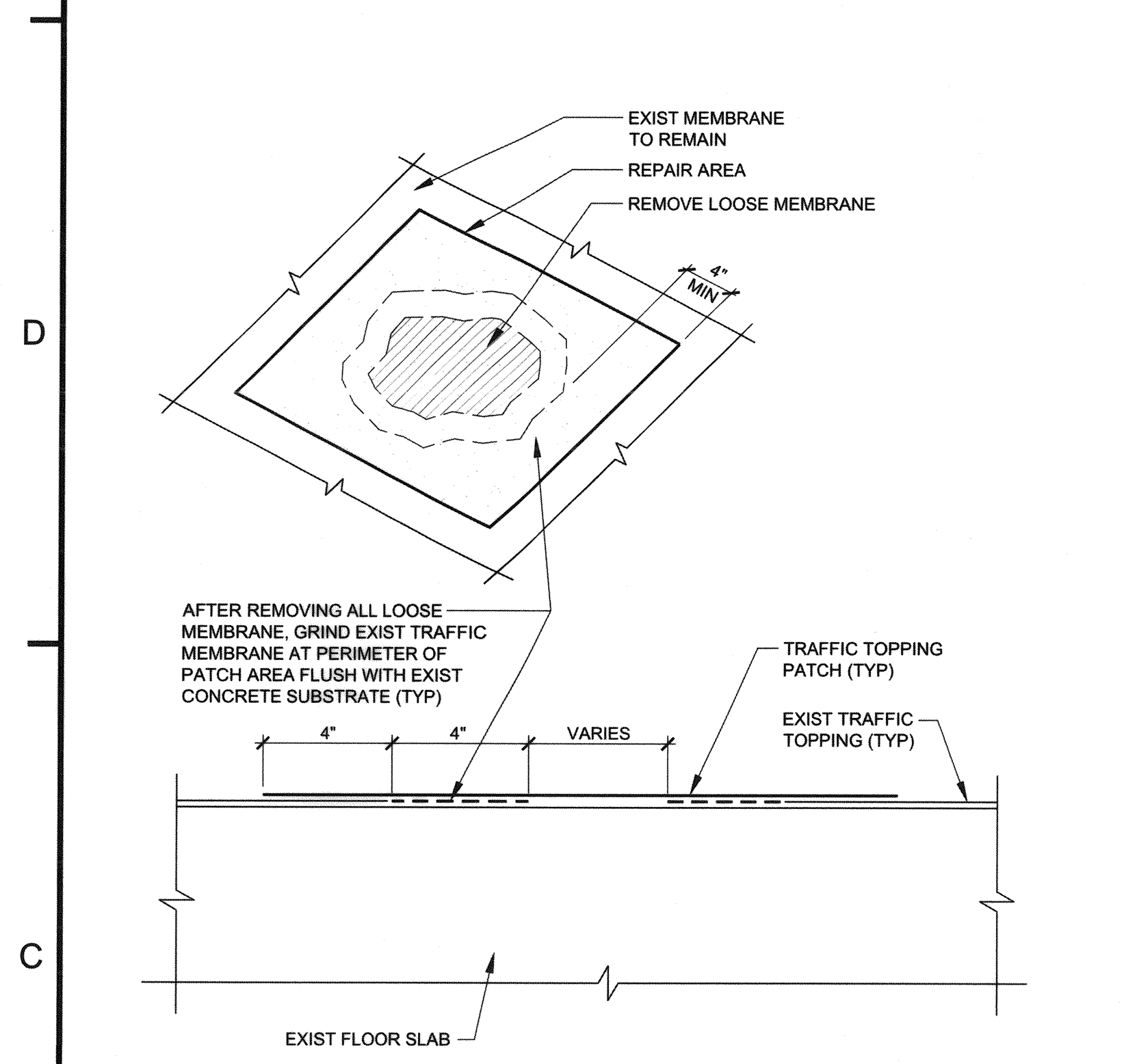
11.7 JOINT REPAIR - COVE SEALANT



11.9 CRACK REPAIR - HEALER/SEALER

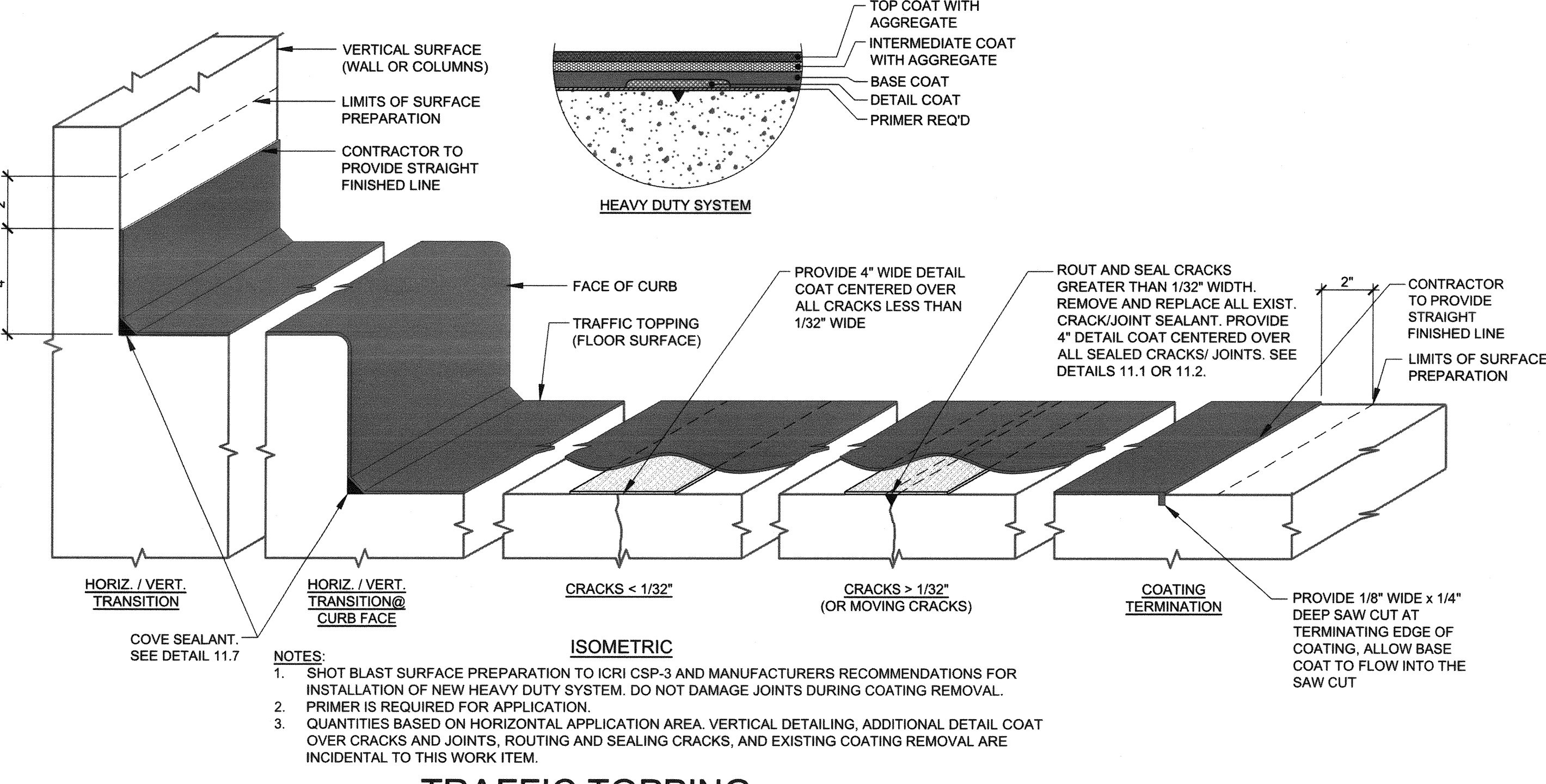


14.1 EPOXY BROADCAST OVERLAY SYSTEM



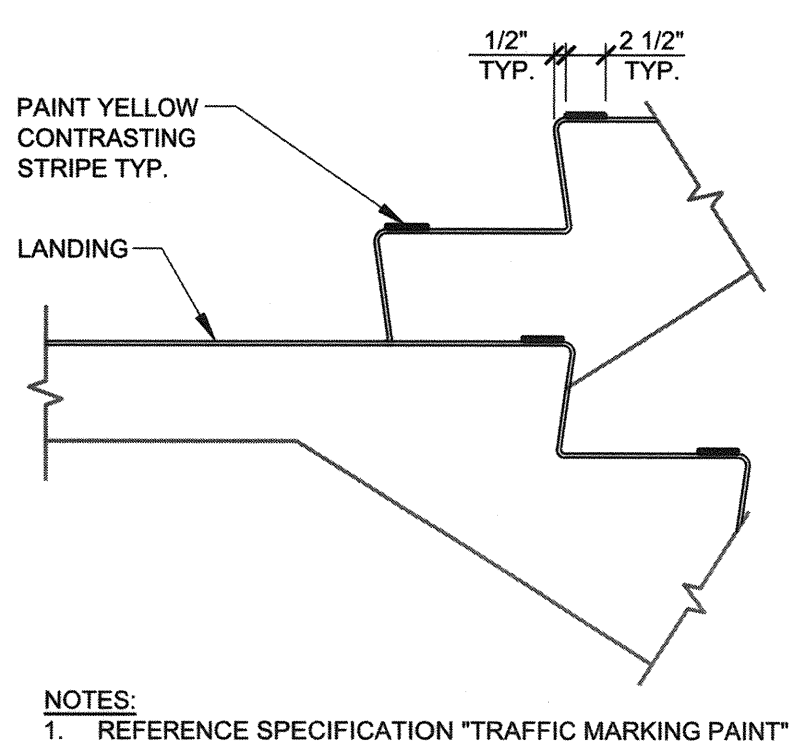
**NOTE:**  
 1. COORDINATE TRAFFIC TOPPING REPAIR WITH W.I. 16.4, TRAFFIC TOPPING - RECOAT.

16.3 TRAFFIC TOPPING - REPAIR



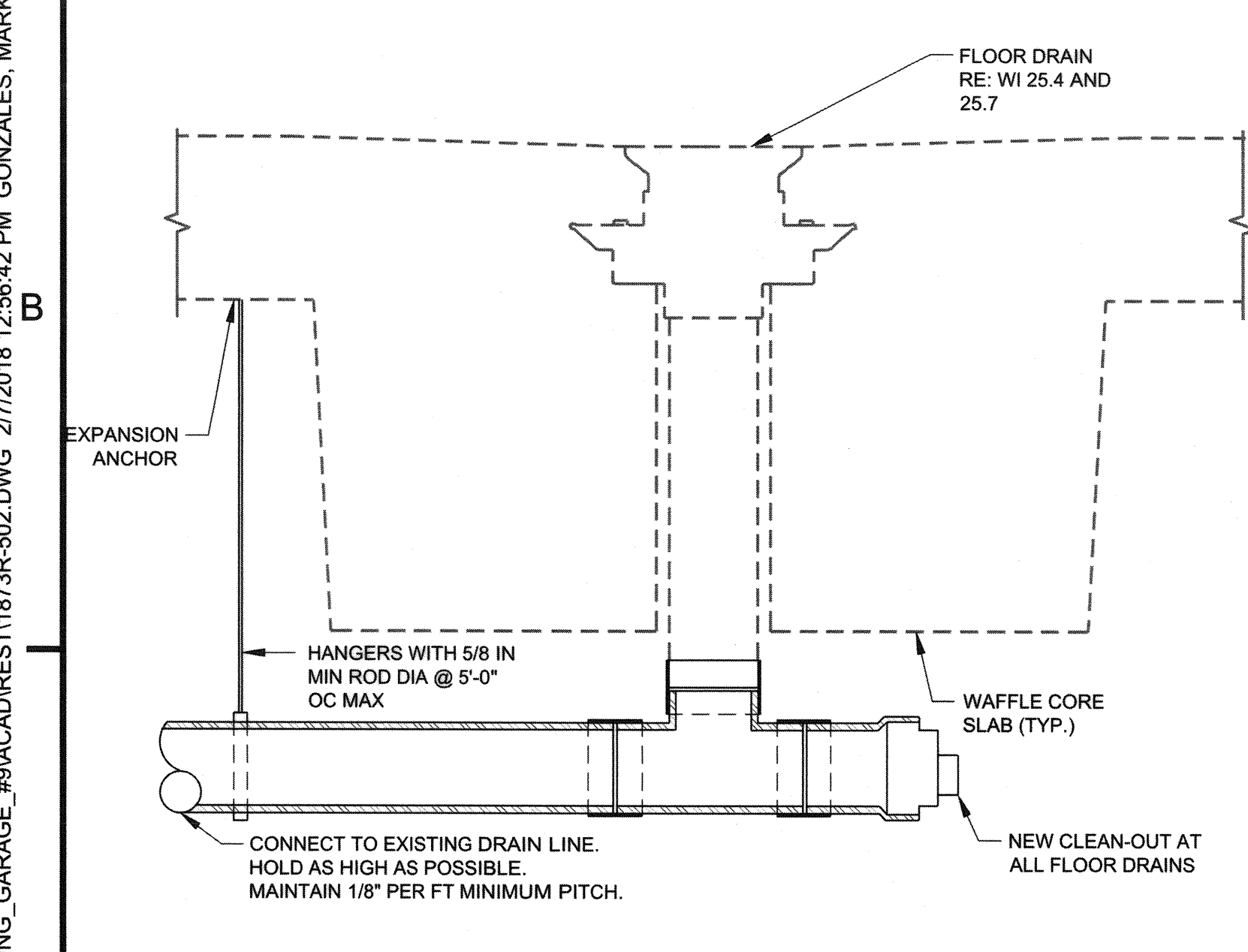
**NOTES:**  
 1. SHOT BLAST SURFACE PREPARATION TO ICR CSP-3 AND MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF NEW HEAVY DUTY SYSTEM. DO NOT DAMAGE JOINTS DURING COATING REMOVAL.  
 2. PRIMER IS REQUIRED FOR APPLICATION.  
 3. QUANTITIES BASED ON HORIZONTAL APPLICATION AREA. VERTICAL DETAILING, ADDITIONAL DETAIL COAT OVER CRACKS AND JOINTS, ROUTING AND SEALING CRACKS, AND EXISTING COATING REMOVAL ARE INCIDENTAL TO THIS WORK ITEM.

16.4 TRAFFIC TOPPING - RECOAT PARTIAL SYSTEM



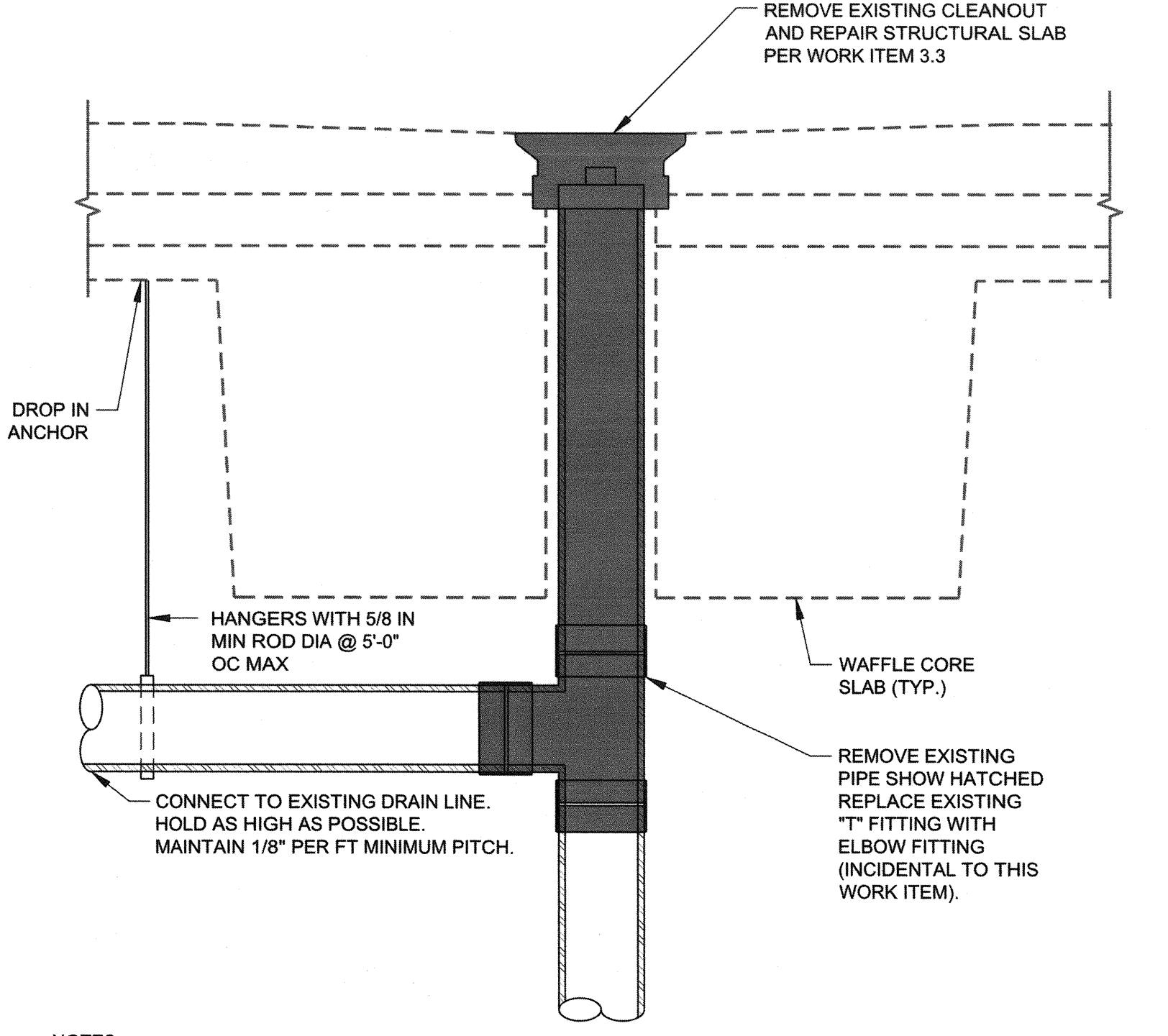
**NOTES:**  
 1. REFERENCE SPECIFICATION "TRAFFIC MARKING PAINT" FOR MATERIAL

16.4.1 TRAFFIC COATING - STAIR PAINT



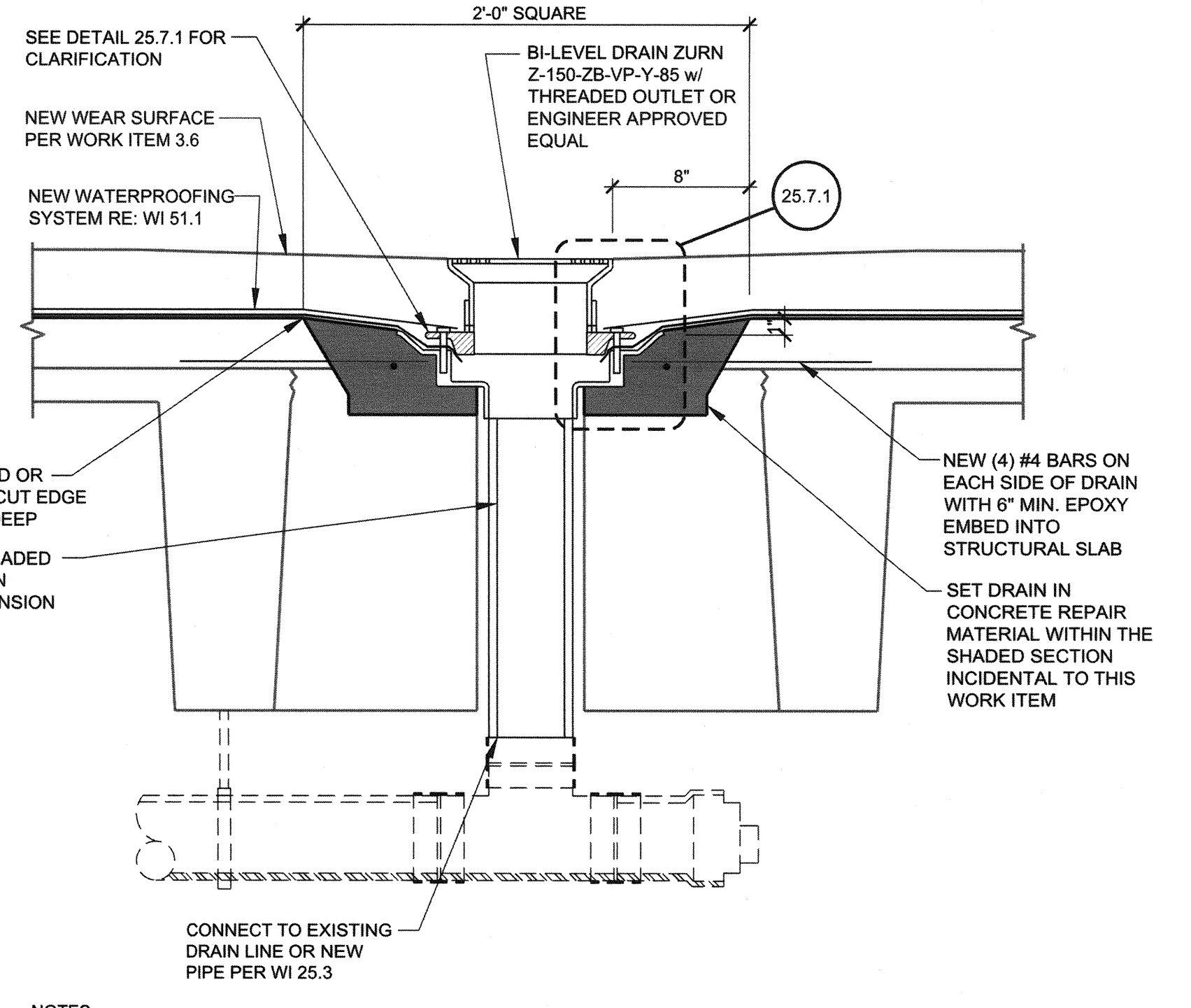
**NOTES:**  
 1. USE SERVICE WEIGHT CAST IRON PIPE. ALL MATERIALS SHALL BE IN ACCORDANCE WITH PREVAILING BUILDING ORDINANCES.  
 2. INSTALL ADJUSTABLE HANGERS AS REQUIRED. VERIFY MINIMUM HEIGHT RESTRICTIONS OF PREVAILING BUILDING ORDINANCES PRIOR TO INSTALLATION.  
 3. WORK ITEM CONSISTS OF ALL LABOR, HANGERS, ANCHORAGES AND ATTACHMENTS, PIPE, ELBOWS, TEES, COUPLERS, CLAMPS, CLEANOUTS ECT.

25.3 MECHANICAL - SUPPLEMENTARY PIPE AND HANGERS



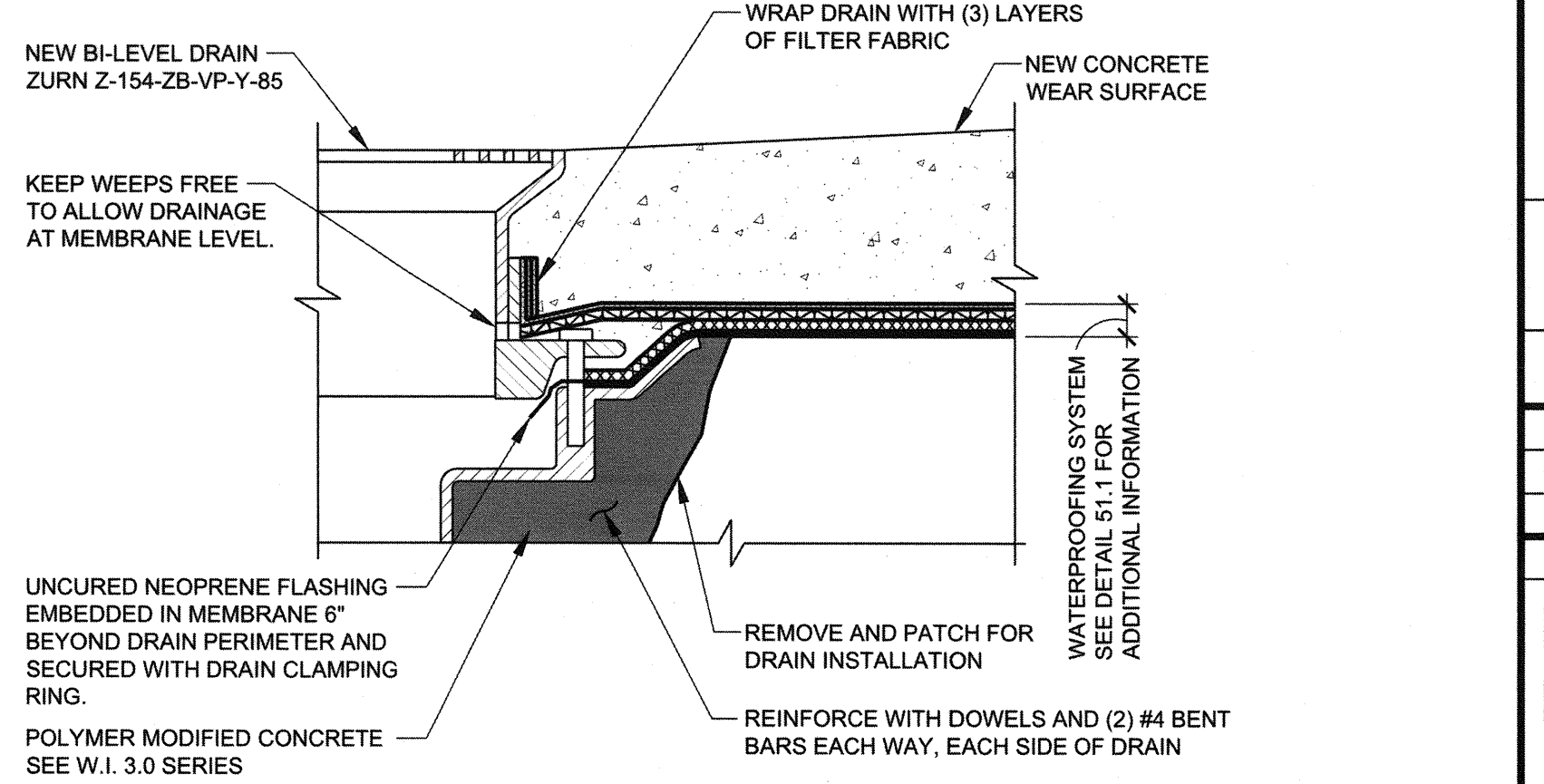
**NOTES:**  
 1. USE SERVICE WEIGHT CAST IRON PIPE. ALL MATERIALS SHALL BE IN ACCORDANCE WITH PREVAILING BUILDING ORDINANCES.

25.4 MECHANICAL - EXISTING CLEANOUT REMOVAL



**NOTES:**  
 1. REMOVE EXISTING FLOOR DRAIN ON PLAZA PER W.I. 50.3A AND DISCONNECT BELOW STRUCTURAL FLOOR. INSTALL NEW PLAZA DRAIN.  
 2. USE SERVICE WEIGHT CAST IRON PIPE. ALL MATERIALS SHALL BE IN ACCORDANCE WITH PREVAILING BUILDING ORDINANCES.  
 3. UNDERSIDE MECHANICAL TO BE INSTALLED PROVIDING MINIMUM CLEARANCE REQUIREMENTS OF PARKING STRUCTURE ENTRANCE.  
 4. VERIFY LOCATION OF DRAIN TO AVOID HITTING REINFORCING STEEL/EMBEDDED CONDUIT, ETC.  
 5. ADDITIONAL DEMO AS REQ'D INCIDENTAL TO THIS WORK ITEM.

25.7 WEAR SLAB SYSTEM - BI-LEVEL DRAINS



25.7.1 WEAR SLAB SYSTEM - PLAZA SYSTEM BI-LEVEL DRAINS (CLARIFICATION DETAIL)

**WALKER RESTORATION CONSULTANTS**  
 135 Main Street  
 San Francisco, CA 94105  
 415.644.0830 Ph  
 www.walkerrestoration.com

**REGISTERED PROFESSIONAL ENGINEER**  
 LICENSE NO. C 59106  
 STATE OF CALIFORNIA

**City of Santa Rosa CALIFORNIA**

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
 BY: *[Signature]* DATE: 5/22/18  
 CONTRACT NUMBER: FILE NUMBER: 2018-0024  
 CO1823

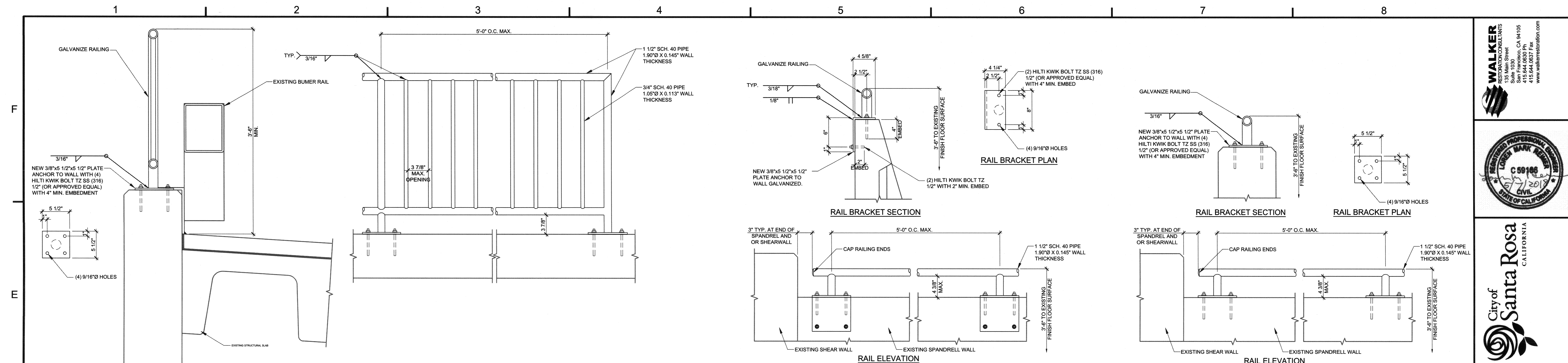
**CITY OF SANTA ROSA**  
**PARKING GARAGE #9 2017 REPAIRS**  
 SANTA ROSA CALIFORNIA

NO.	DATE	ISSUED FOR BID	DESCRIPTION
05-07-18			

PROJECT NO: 33-1873.00  
 DRAWN BY: MLG  
 CHECKED BY: JRC  
 SHEET TITLE: REPAIR DETAILS

**R-502**





**43.1 HANDRAIL - INSTALL GUARDRAIL**

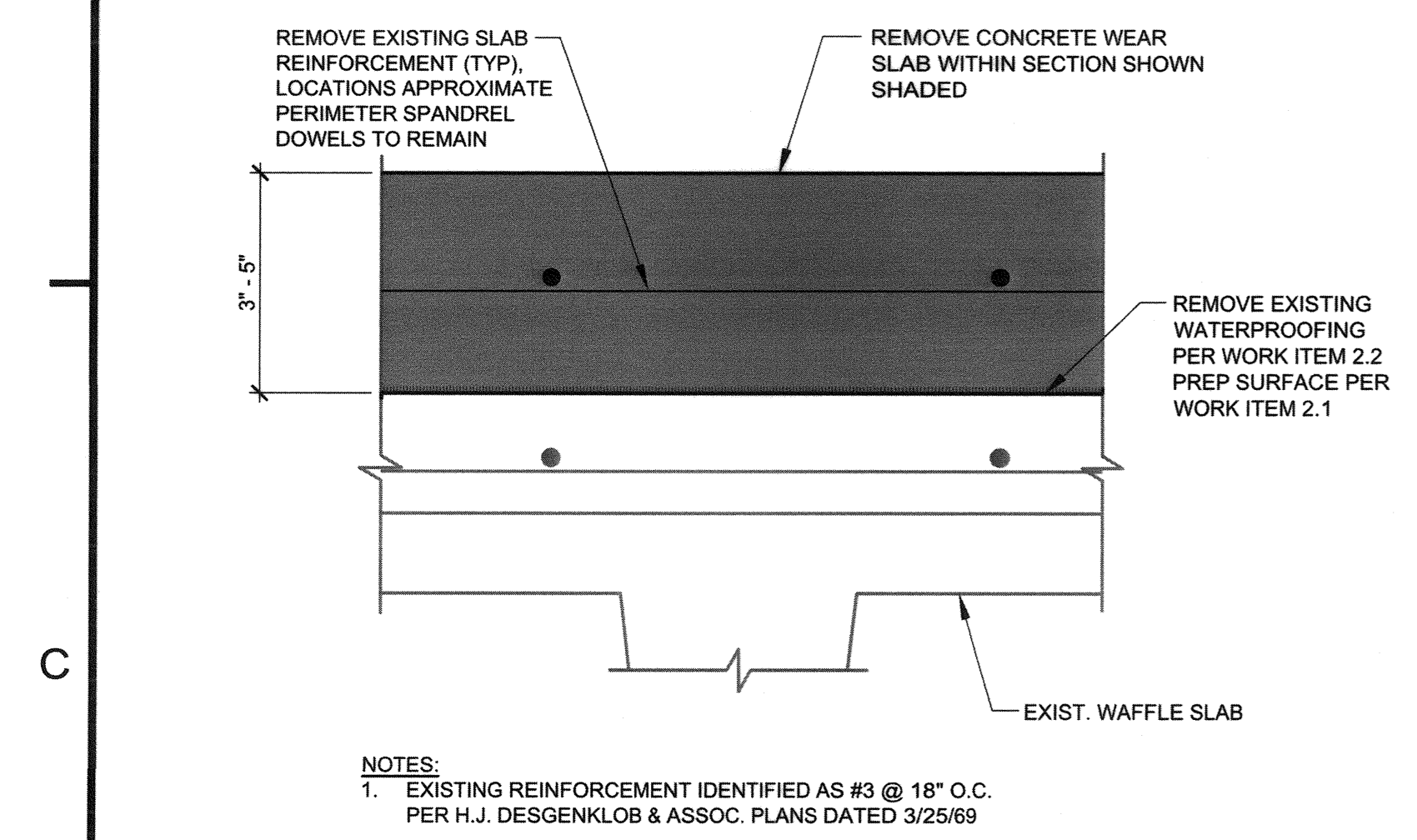
NOTES:  
 1. WELDS SHALL BE FINISHED TO NOMMA TYPE 3.  
 2. HOT DIP GALVANIZE RAILING ASSEMBLY.  
 3. ANCHOR BOLT MINIMUM EDGE DISTANCE 2 3/4"

**43.2 HANDRAIL - INSTALL GUARDRAIL**

NOTES:  
 1. WELDS SHALL BE FINISHED TO NOMMA TYPE 3.  
 2. HOT DIP GALVANIZE RAILING ASSEMBLY.  
 3. ANCHOR BOLT MINIMUM EDGE DISTANCE 2 1/2"

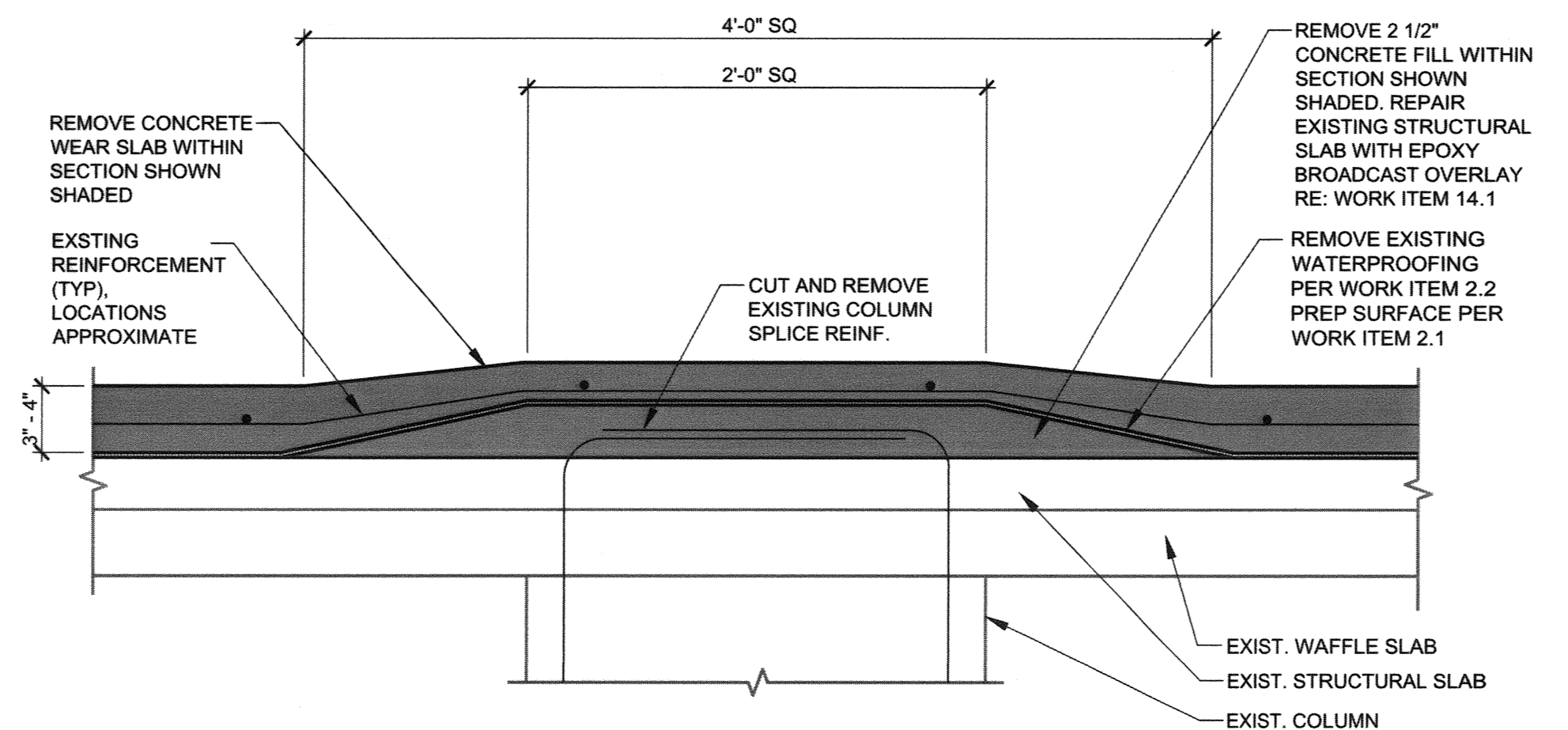
**43.2.1 HANDRAIL - INSTALL GUARDRAIL**

NOTES:  
 1. WELDS SHALL BE FINISHED TO NOMMA TYPE 3.  
 2. HOT DIP GALVANIZE RAILING ASSEMBLY.  
 3. ANCHOR BOLT MINIMUM EDGE DISTANCE 2 3/4"

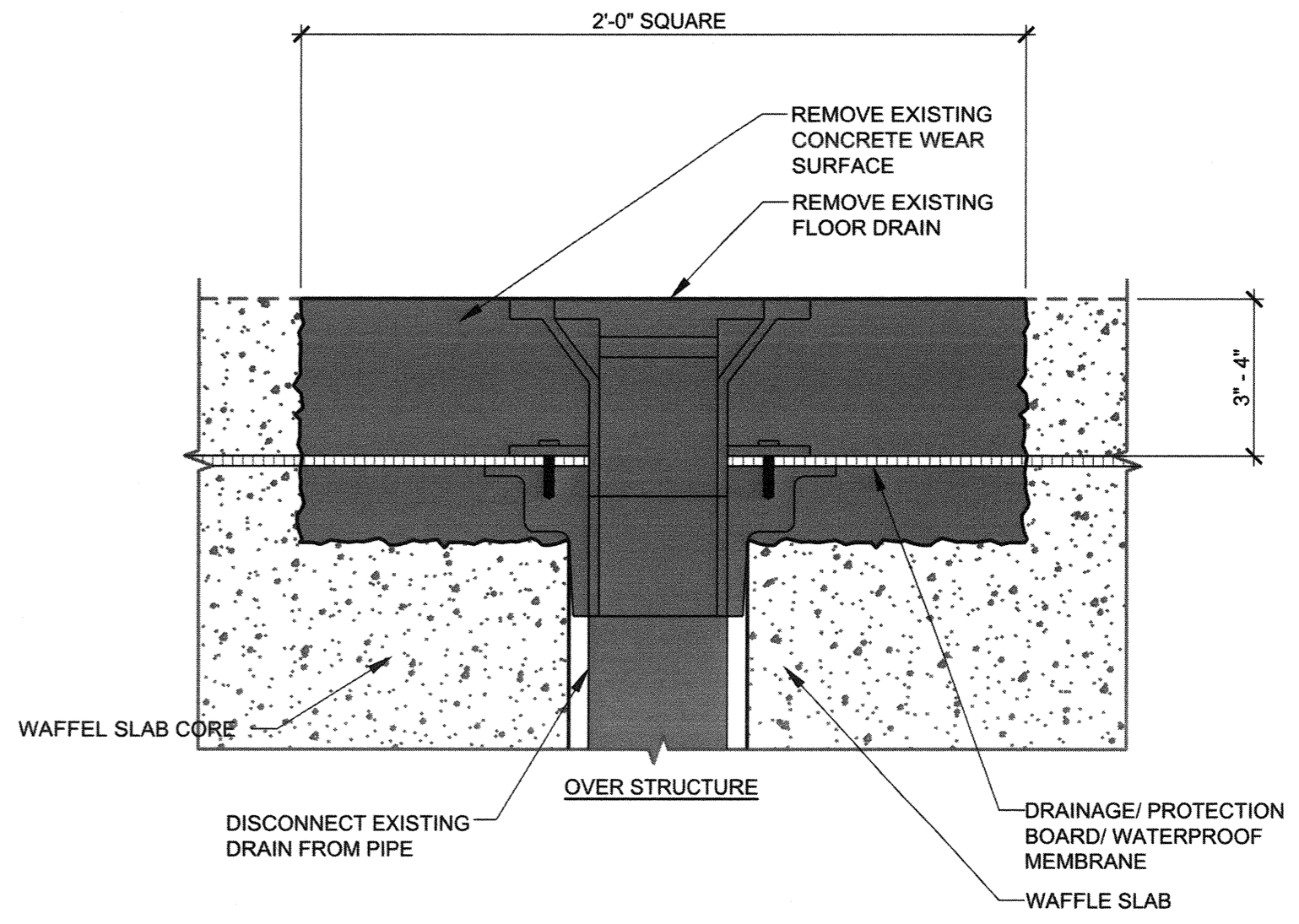


**50.1 WEAR SLAB SYSTEM - DEMOLITION CONCRET WEAR SLAB**

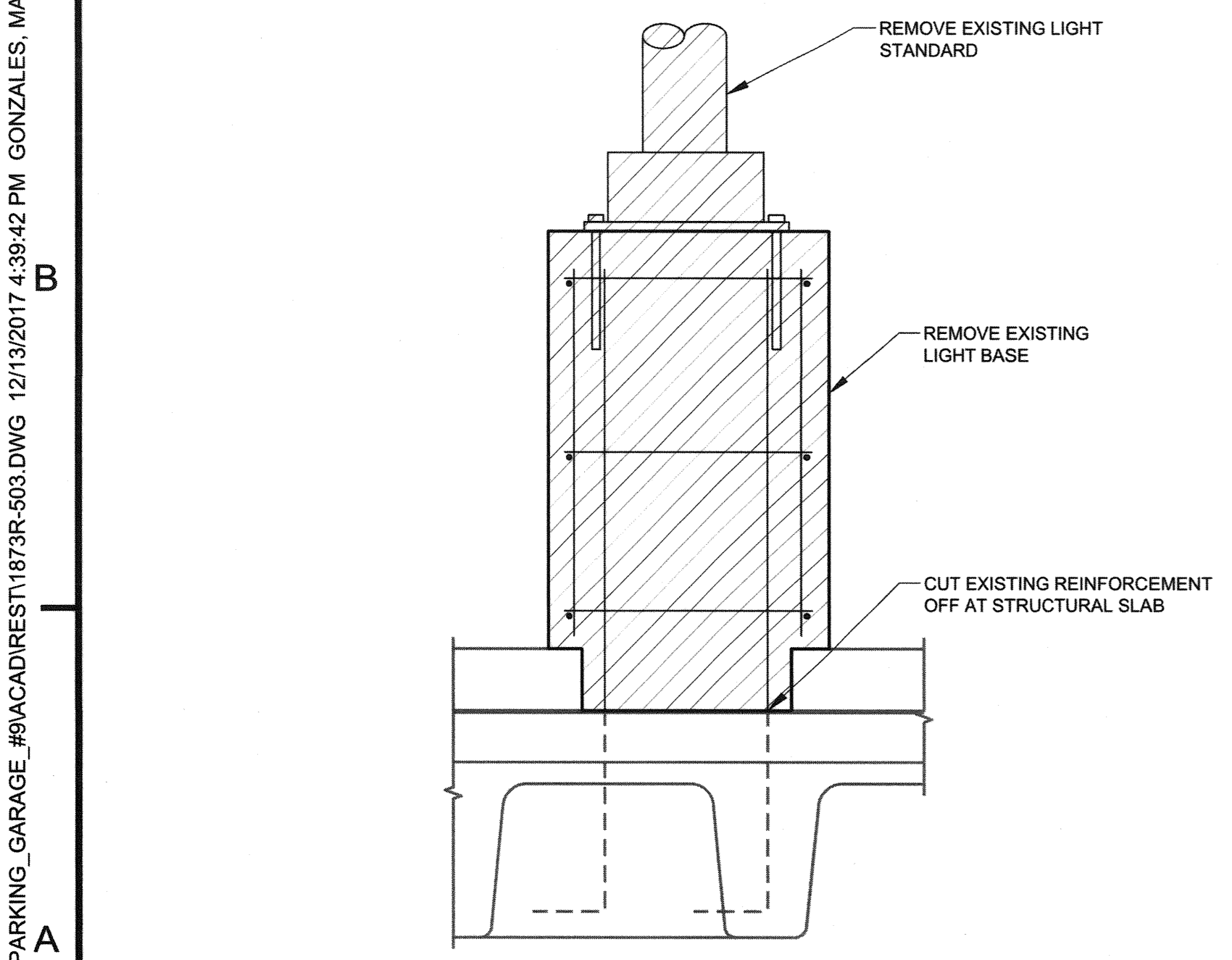
NOTES:  
 1. EXISTING REINFORCEMENT IDENTIFIED AS #3 @ 18" O.C. PER H.J. DESGENKLOB & ASSOC. PLANS DATED 3/25/09



**50.1.1 WEAR SLAB DEMOLITION - CONCRETE ON STRUCTURE (CLARIFICATION DETAIL)**



**50.1.9 WEAR SLAB SYSTEM - DEMOLITION REMOVE EXISTING FLOOR DRAIN AND RISER (CLARIFICATION DETAIL)**



**50.1.10 REMOVE EXISTING LIGHT STANDARD AND BASE ASSEMBLY (CLARIFICATION DETAIL)**

NOTES:  
 1. SEE PLAN R-104 FOR LIGHT ASSEMBLIES AND BASES TO BE REMOVED.  
 2. DISCONNECT POWER AND TERMINATE BACK AT THE NEAREST JUNCTION BOX.  
 3. REMOVE LIGHT FIXTURE AND POLE ASSEMBLY AND BOLLARD.  
 4. CUT EXISTING REINFORCEMENT OFF AT THE STRUCTURAL SLAB.

NO.	DATE	ISSUED FOR BID	DESCRIPTION
05-07-18			

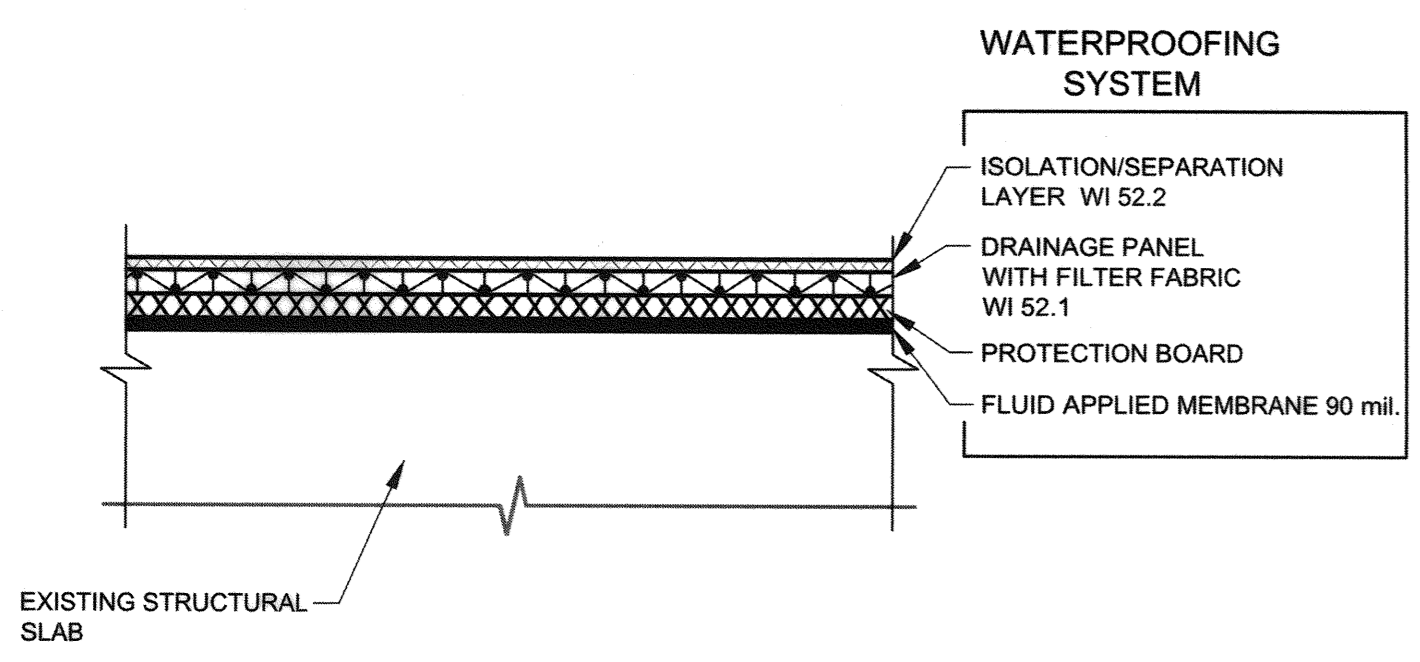
PROJECT NO:	33-1873.00
DRAWN BY:	MLG
CHECKED BY:	JRC
SHEET TITLE:	

**REPAIR DETAILS**

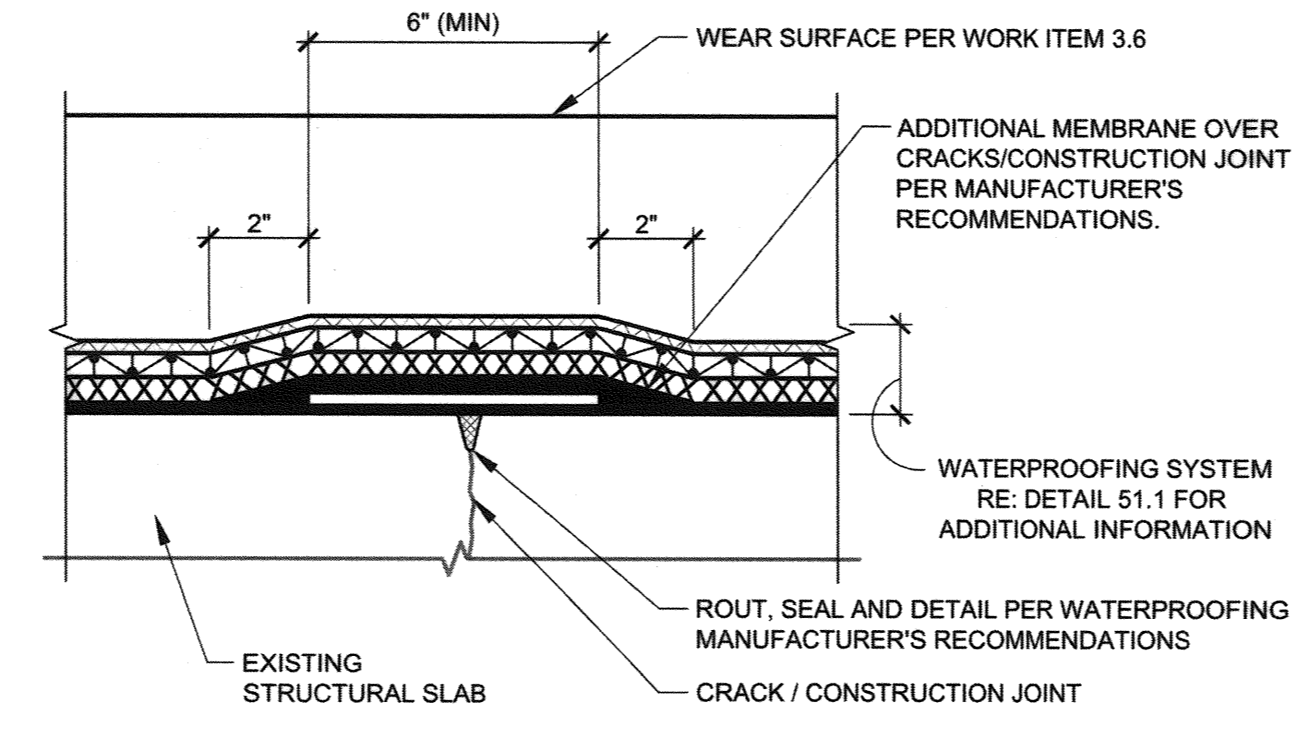
**R-503**

J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE#\ACAD\DWG\1873R-503.DWG 12/13/2017 4:39:42 PM GONZALES, MARK

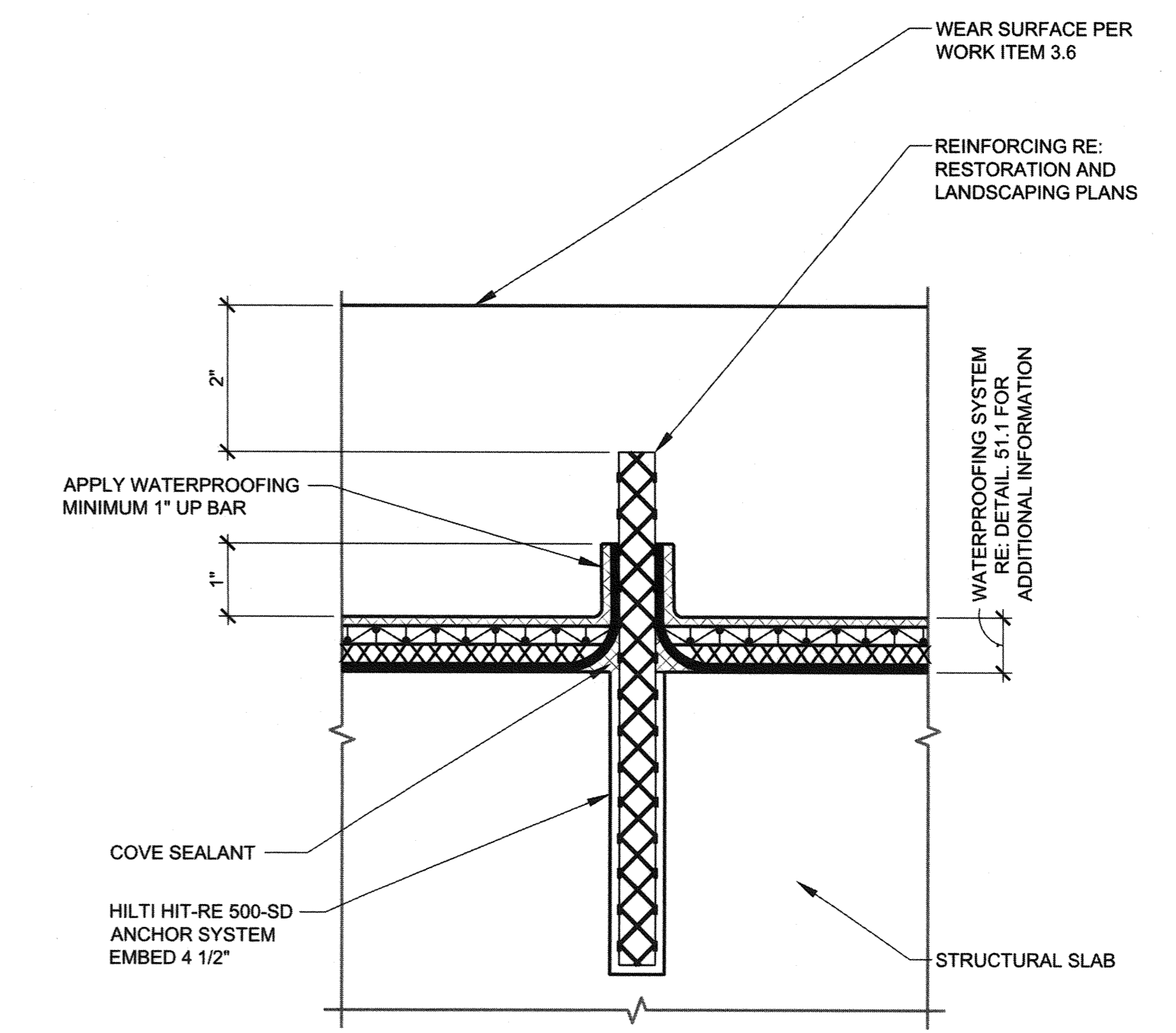




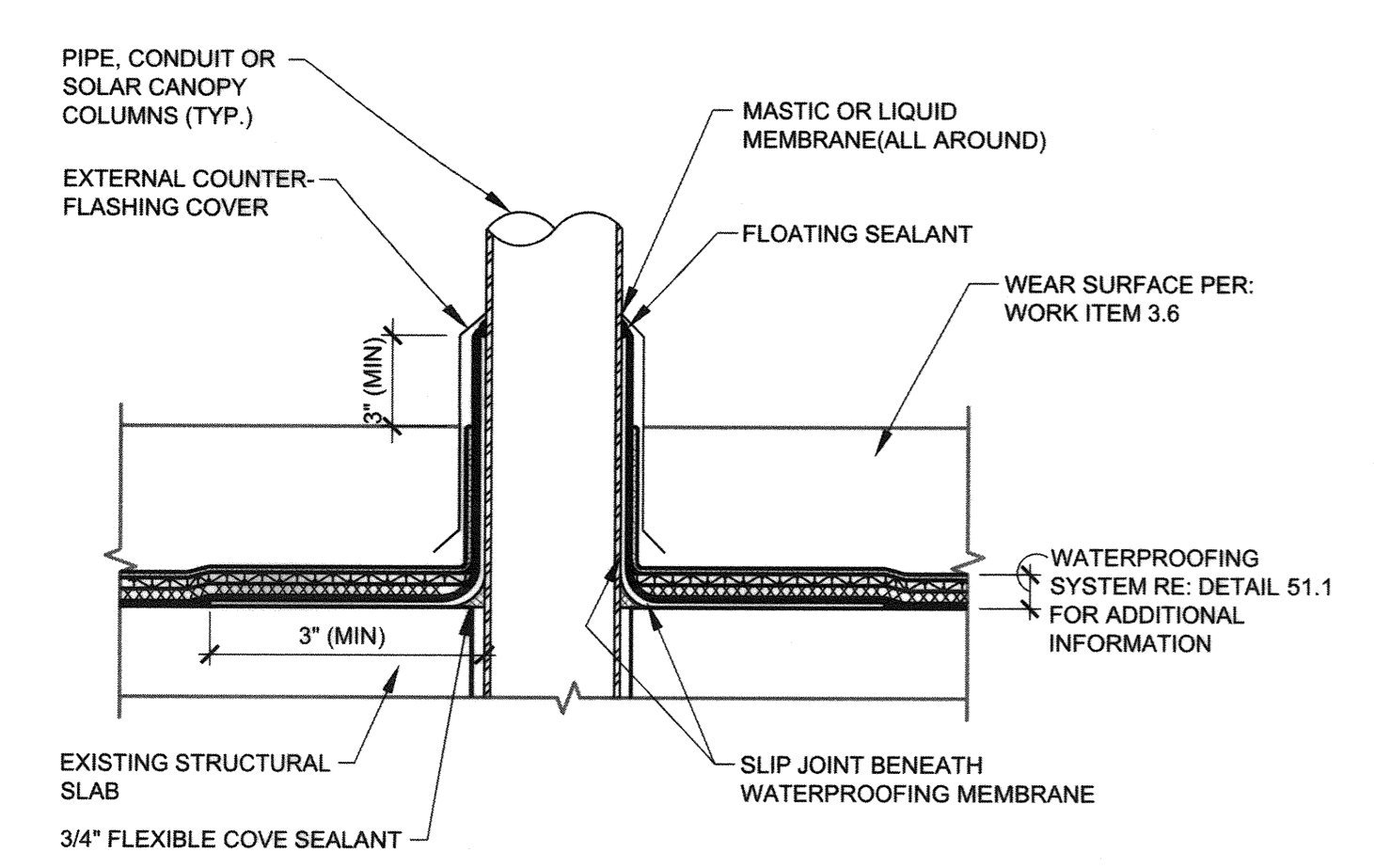
51.1 WEAR SLAB SYSTEM - WATERPROOFING WITH PROTECTION



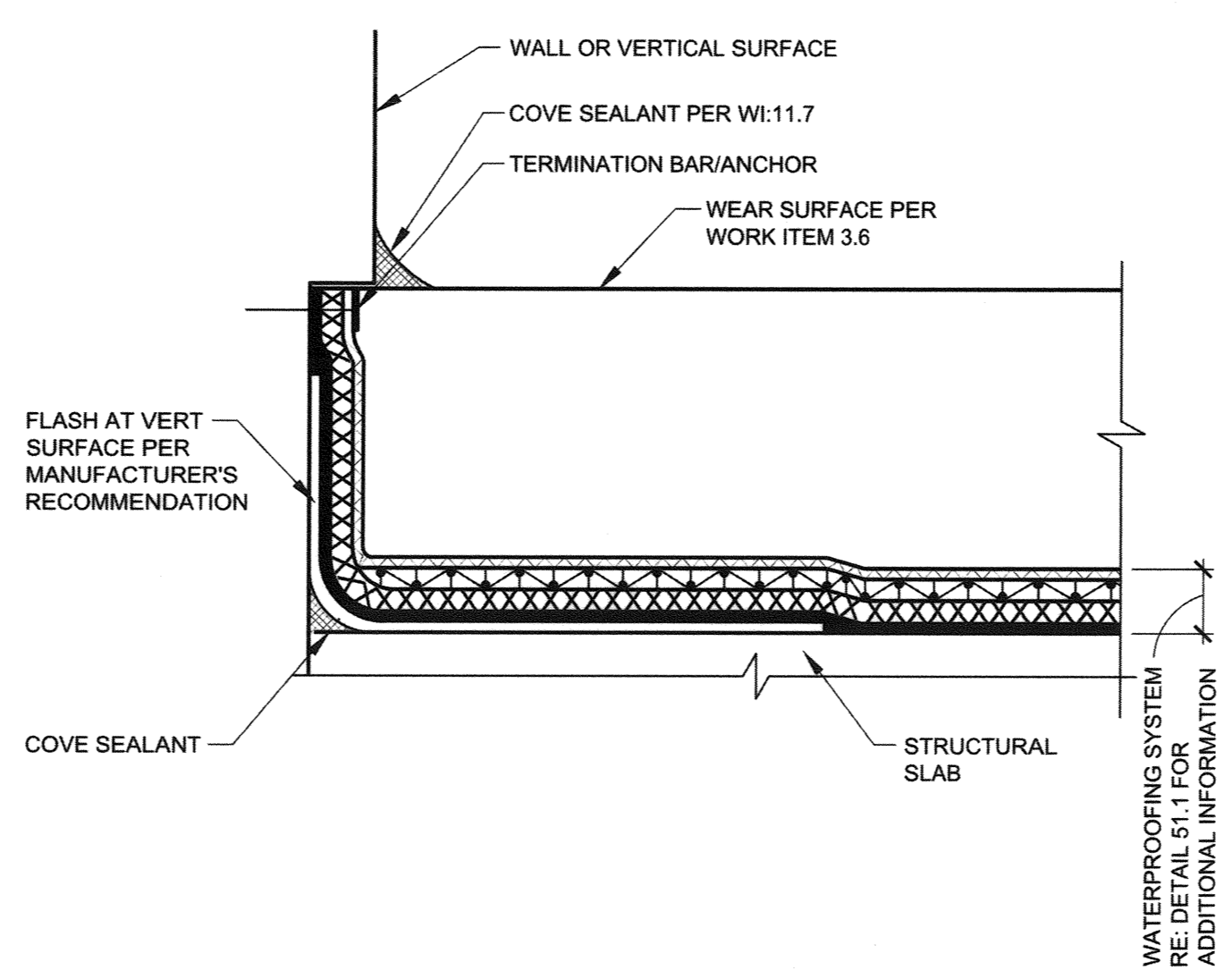
51.1.1 WEAR SLAB SYSTEM - WATERPROOFING DETAIL AT CRACKS (CLARIFICATION DETAIL)



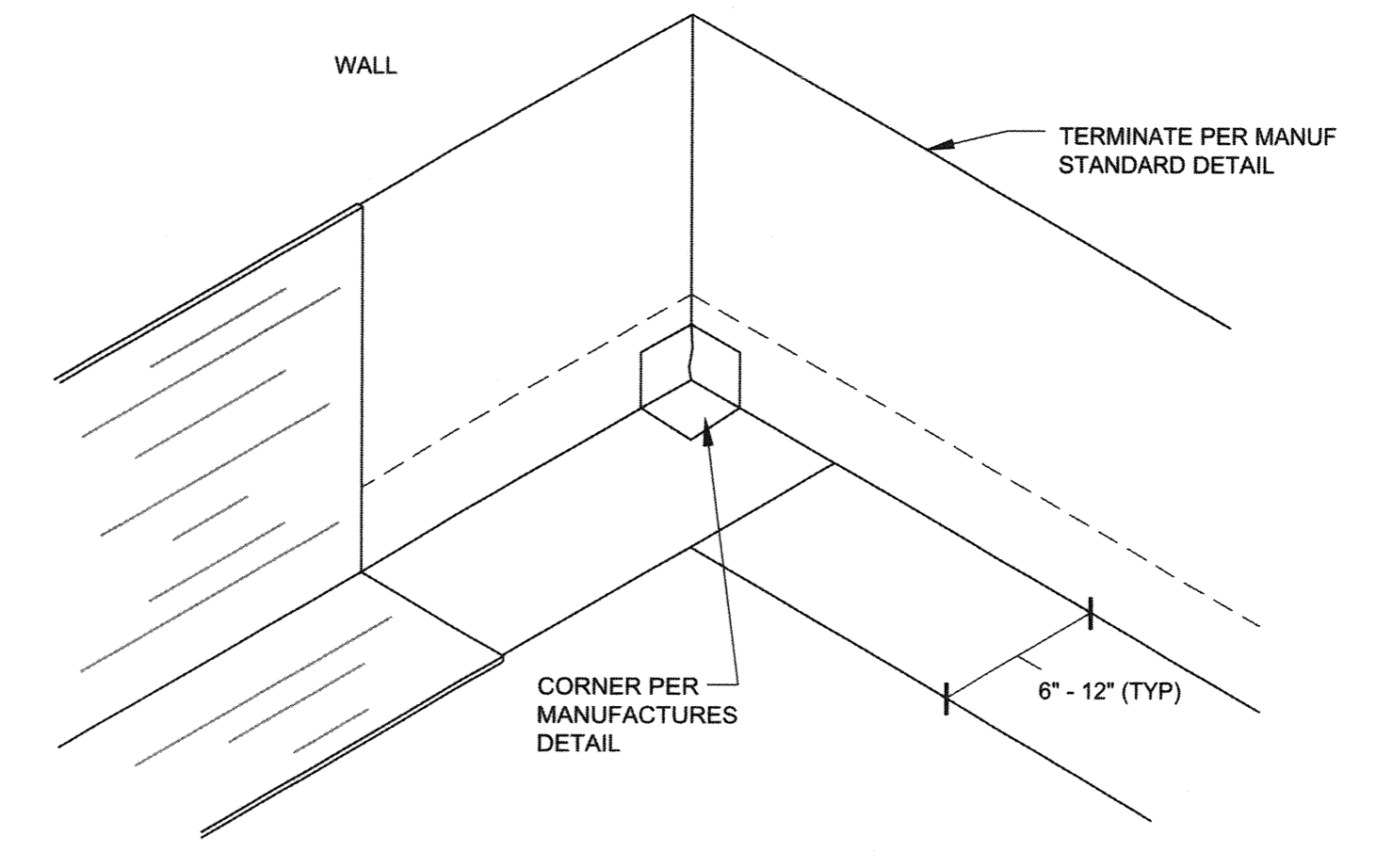
51.1.2 WEAR SLAB SYSTEM - WATERPROOFING DETAIL AT DOWELS (CLARIFICATION DETAIL)



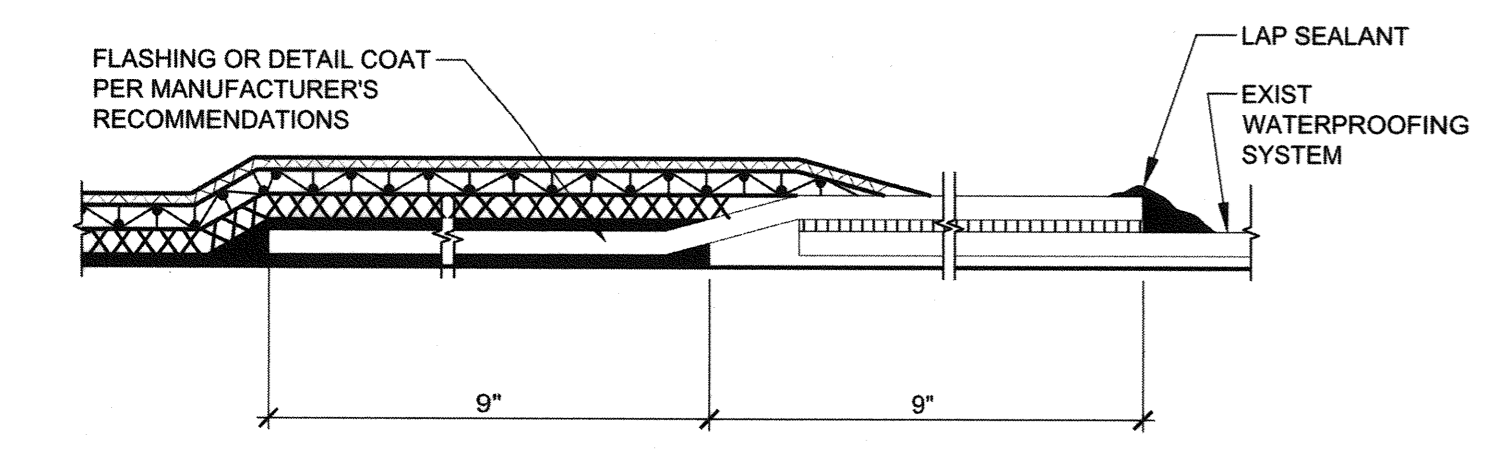
51.1.3 WEAR SLAB SYSTEM - WATERPROOFING DETAIL AT PENETRATIONS (CLARIFICATION DETAIL) (PENETRATIONS INCLUDES SOLAR CANOPY COLUMNS)



51.1.4 WEAR SLAB SYSTEM - WATERPROOFING EXP JOINT FLOOR TO WALL (CLARIFICATION DETAIL)



51.1.6 WEAR SLAB SYSTEM - WATERPROOFING DETAIL AT INSIDE CORNER (CLARIFICATION DETAIL)



51.1.8 WEAR SLAB SYSTEM - WATERPROOFING DETAIL TIE INTO EXISTING WATERPROOFING (CLARIFICATION DETAIL)

SEE SPECIFICATION SECTION 020010 AND DETAIL 51.1

52.1 WEAR SLAB DRAINAGE COURSE

SEE SPECIFICATION SECTION 020010 AND DETAIL 51.1

52.2 WEAR SLAB SLIP SHEET

**WALKER**  
RESTORATION CONSULTANTS  
135 Main Street  
San Francisco, CA 94105  
415.644.0837 Ph  
415.644.0837 Fax  
www.walkerrestoration.com



City of **Santa Rosa**  
CALIFORNIA

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
BY: *Debi Mook* DATE: 5/22/18  
CONTRACT NUMBER: FILE NUMBER: 2016-0024

**CITY OF SANTA ROSA**  
PARKING GARAGE #9 2017 REPAIRS  
SANTA ROSA CALIFORNIA

NO.	DATE	ISSUED FOR BID	DESCRIPTION
05-07-18			

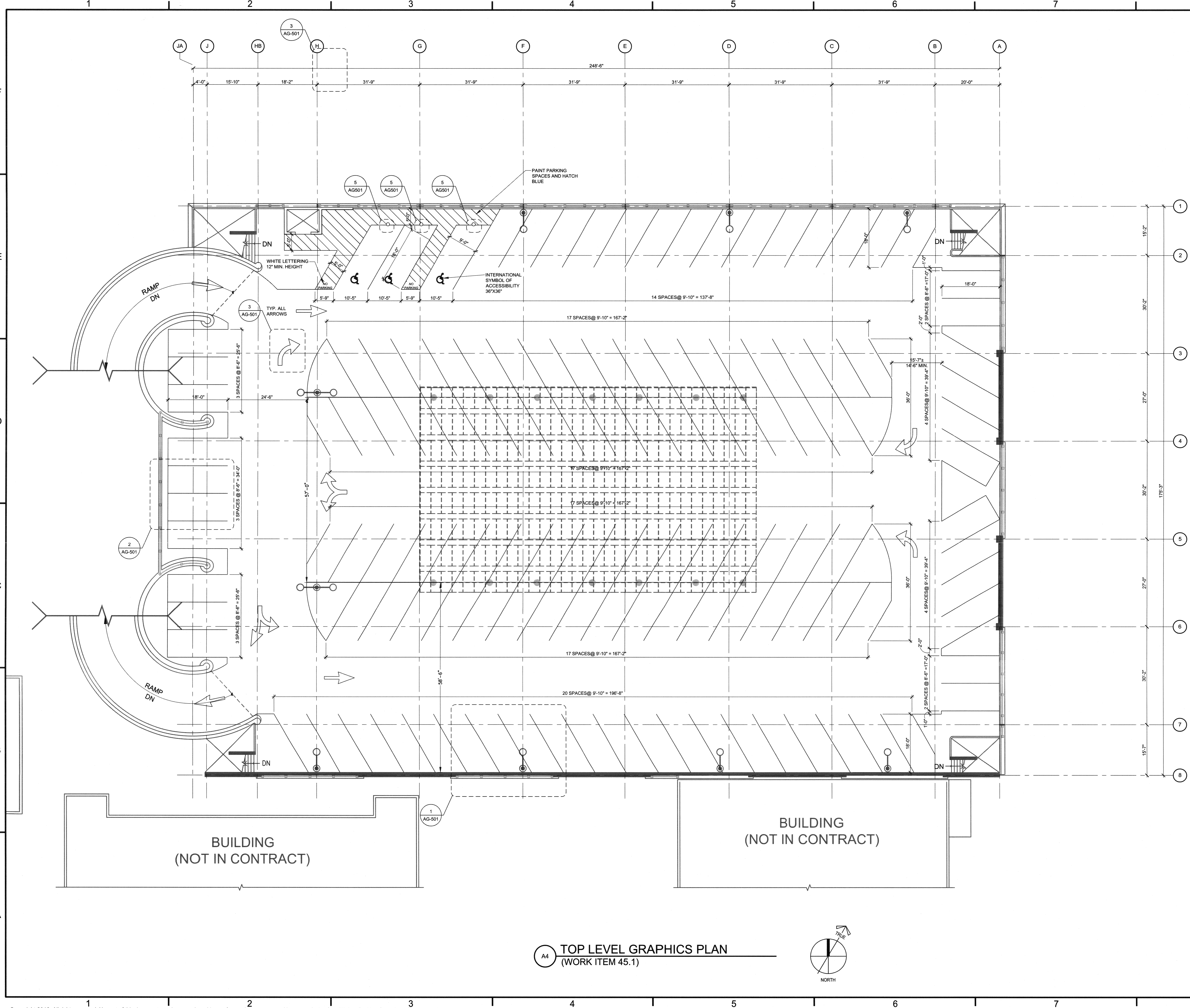
PROJECT NO: 33-1873.00  
DRAWN BY: MLG  
CHECKED BY: JRC  
SHEET TITLE: REPAIR DETAILS

R-504

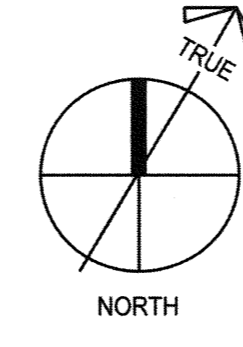
J:\33-1873-00-SANTA ROSA PARKING GARAGE\_#9\ACAD\REST\1873R-504.DWG 12/13/2017 4:40:49 PM GONZALES, MARK



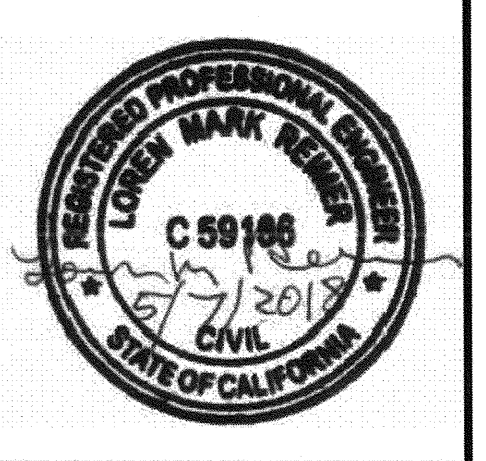
J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE#\ACAD\REST11873JAG-201.DWG 2/7/2018 1:01:59 PM GONZALES, MARK



A4 TOP LEVEL GRAPHICS PLAN  
(WORK ITEM 45.1)



**WALKER**  
RESTORATION CONSULTANTS  
135 Main Street  
San Francisco, CA 94105  
415.644.0830 Ph  
www.walkerrestoration.com



City of **Santa Rosa**  
CALIFORNIA

APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
BY: *Debra Walker* DATE: 5/22/18  
FILE NUMBER: \_\_\_\_\_  
CONTRACT NUMBER: \_\_\_\_\_  
CO1823

**CITY OF SANTA ROSA**  
PARKING GARAGE #9 2017 REPAIRS  
SANTA ROSA CALIFORNIA

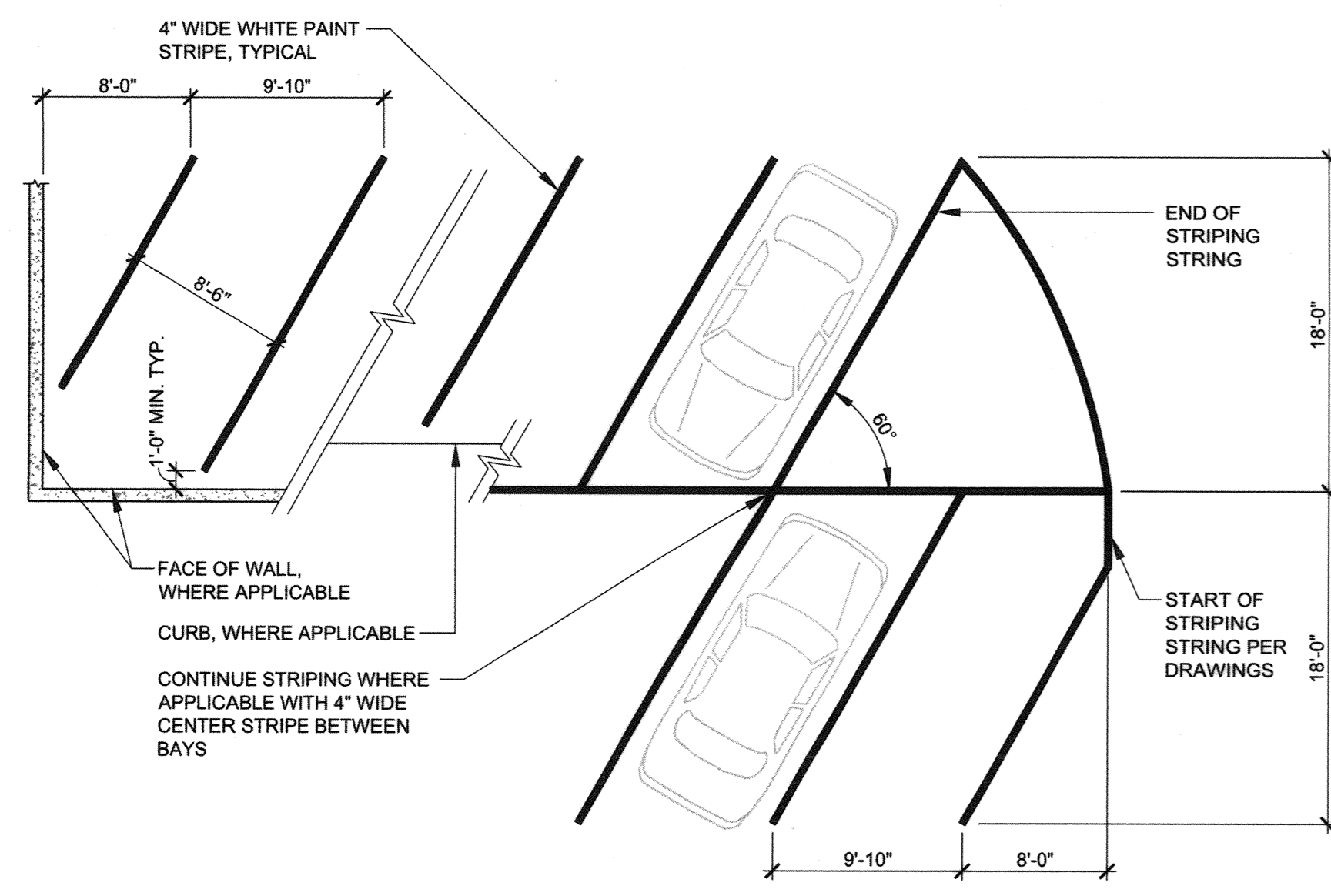
NO.	DATE	ISSUED FOR BID	DESCRIPTION
15-07-18			

PROJECT NO: 33-1873.00  
DRAWN BY: MLG  
CHECKED BY: JRC  
SHEET TITLE:

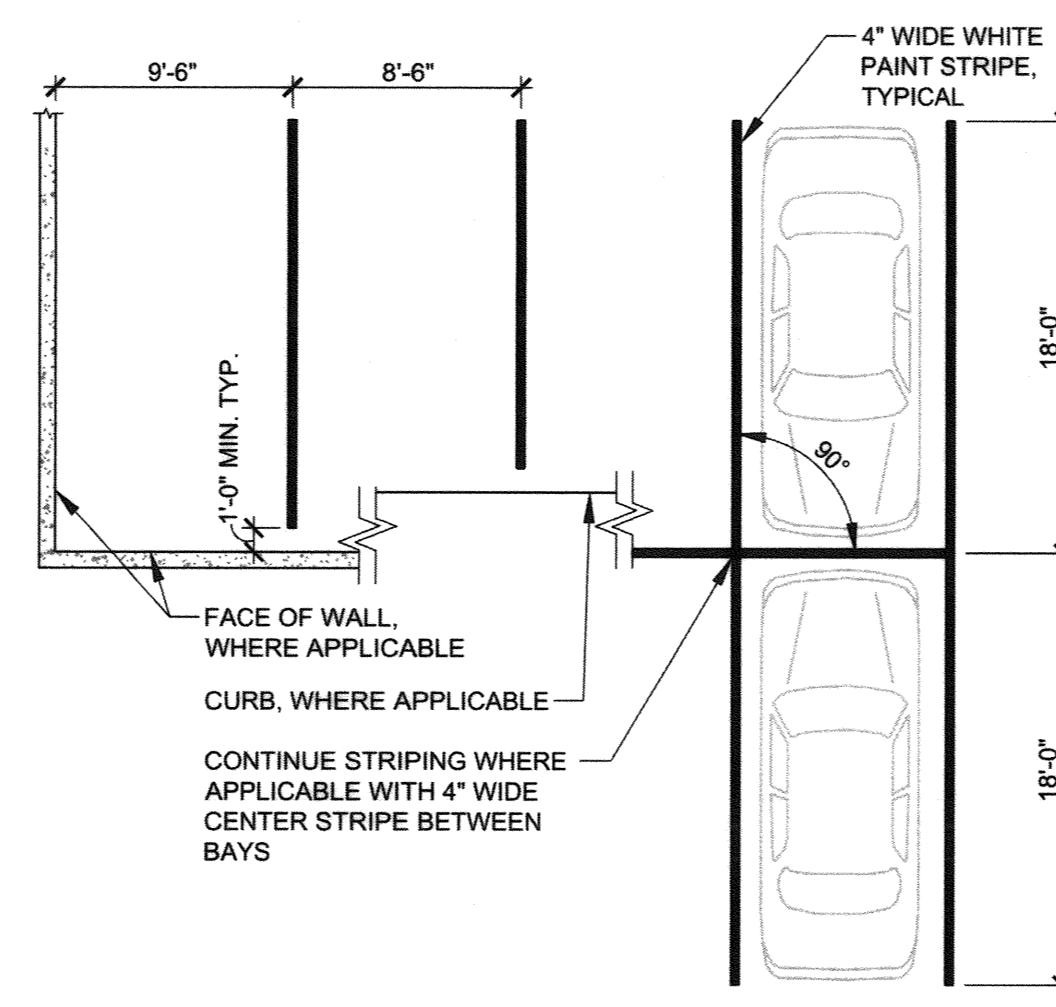
TOP LEVEL GRAPHICS PLAN

AG-201

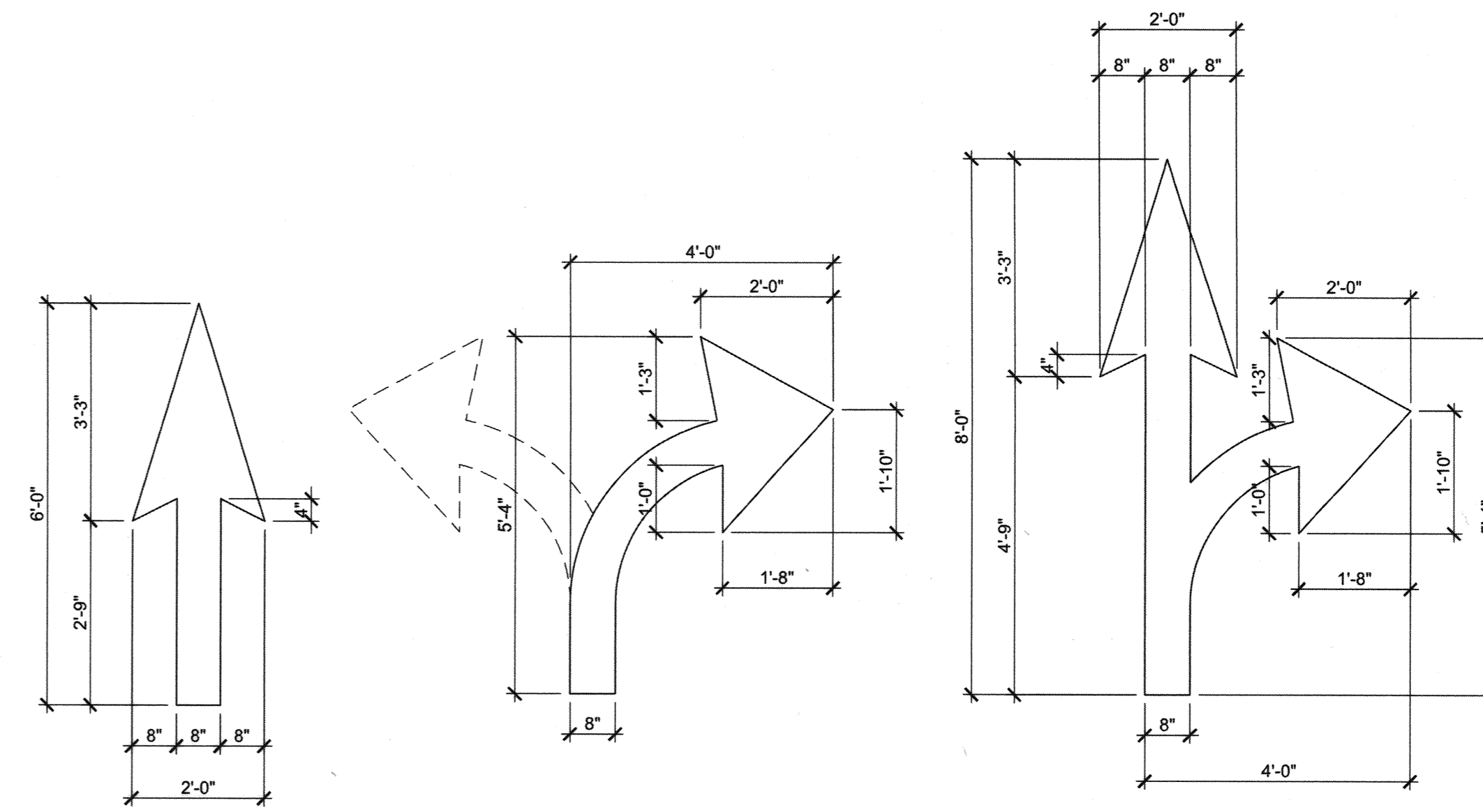




1 60° STRIPING DETAIL

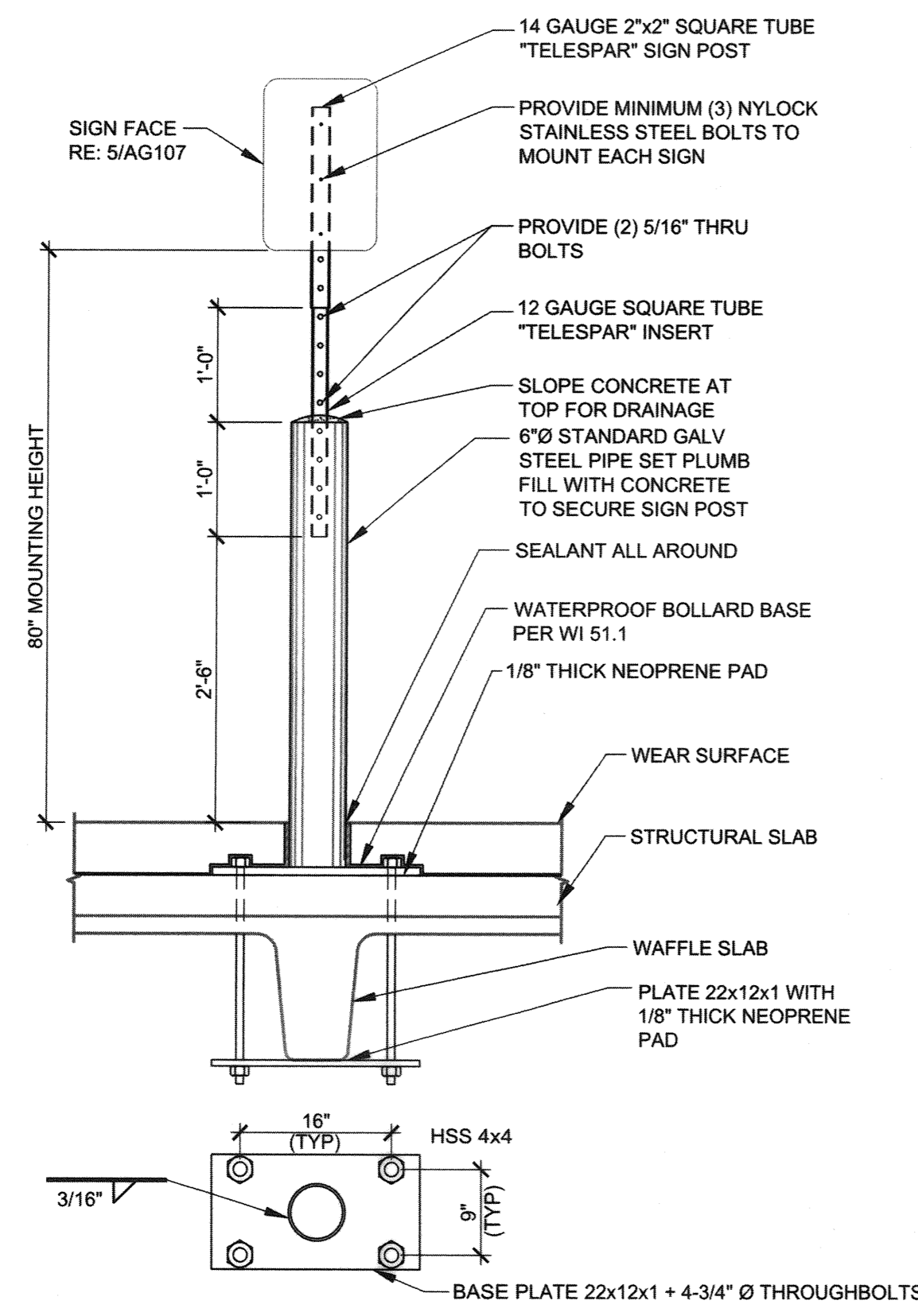


2 90° STRIPING DETAIL



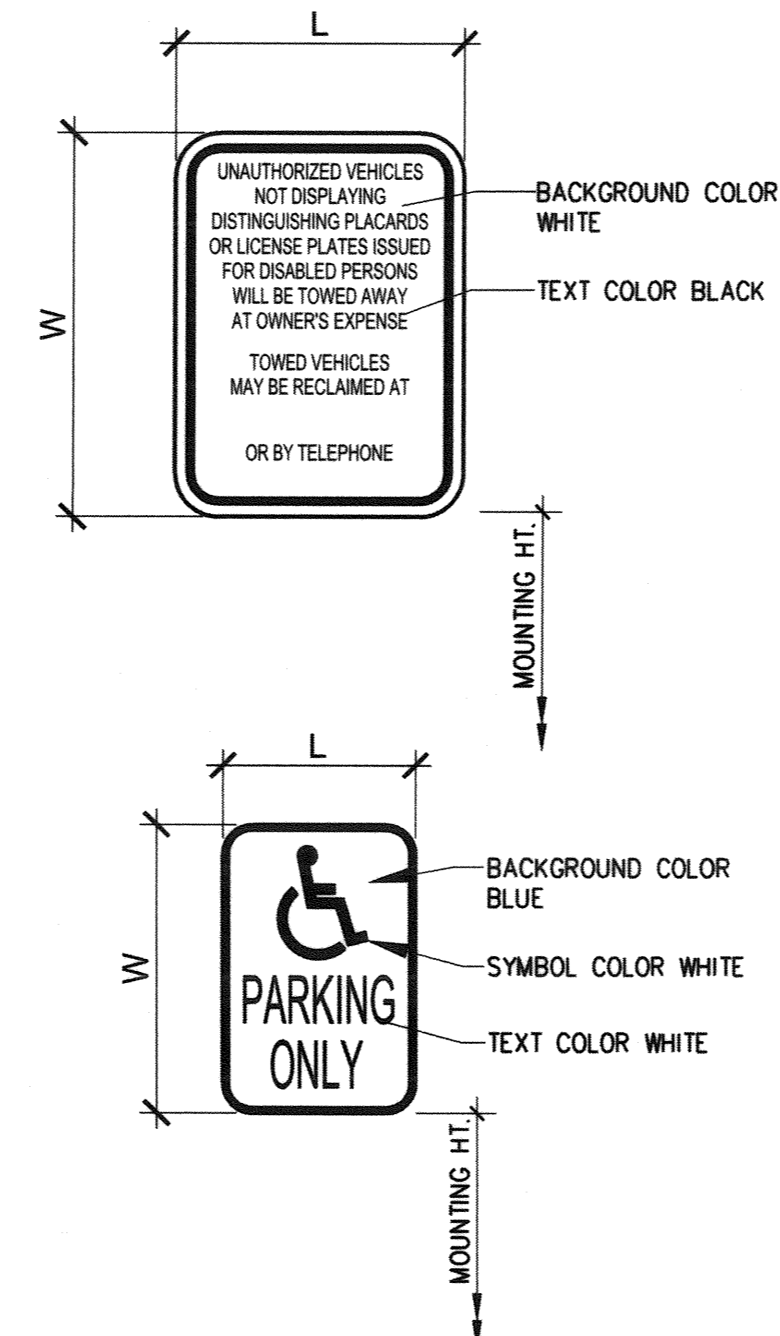
NOTES:  
1. PAINT ARROWS SOLID WHITE, UNLESS NOTED OTHERWISE.

3 STRIPING DETAIL - PAINTED ARROWS



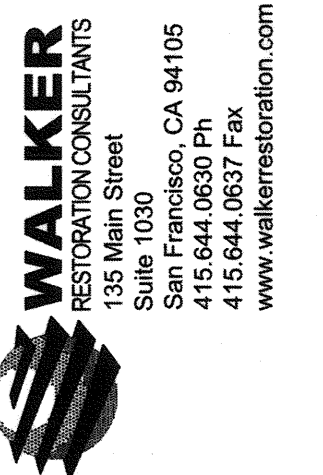
- NOTES:
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
  2. LOCATE EXISTING REINFORCEMENT AND POST TENSIONING
  3. LOCATE HOLES TO AVOID REINFORCEMENT AND POST TENSIONING
  4. MAINTAIN 1 1/2\"/>

4 SIGN WITH BOLLARD



5 CALIFORNIA ADA SIGN DETAIL

J:\33-1873-00-SANTA ROSA PARKING GARAGE\_#9ACAD\REST\1873AG-501.DWG 12/13/2017 4:43:37 PM GONZALES, MARK



APPROVED: DEPUTY DIRECTOR OF PUBLIC WORKS - ENGINEERING  
 BY: *Loren Kestner* DATE: 7/22/18  
 CONTRACT NUMBER: 2016-0024  
 FILE NUMBER: C01823

CITY OF SANTA ROSA  
 PARKING GARAGE #9 2017 REPAIRS  
 SANTA ROSA CALIFORNIA

NO.	DATE	ISSUED FOR BID	DESCRIPTION
06-07-18			

PROJECT NO: 33-1873.00  
 DRAWN BY:  
 CHECKED BY:  
 SHEET TITLE:

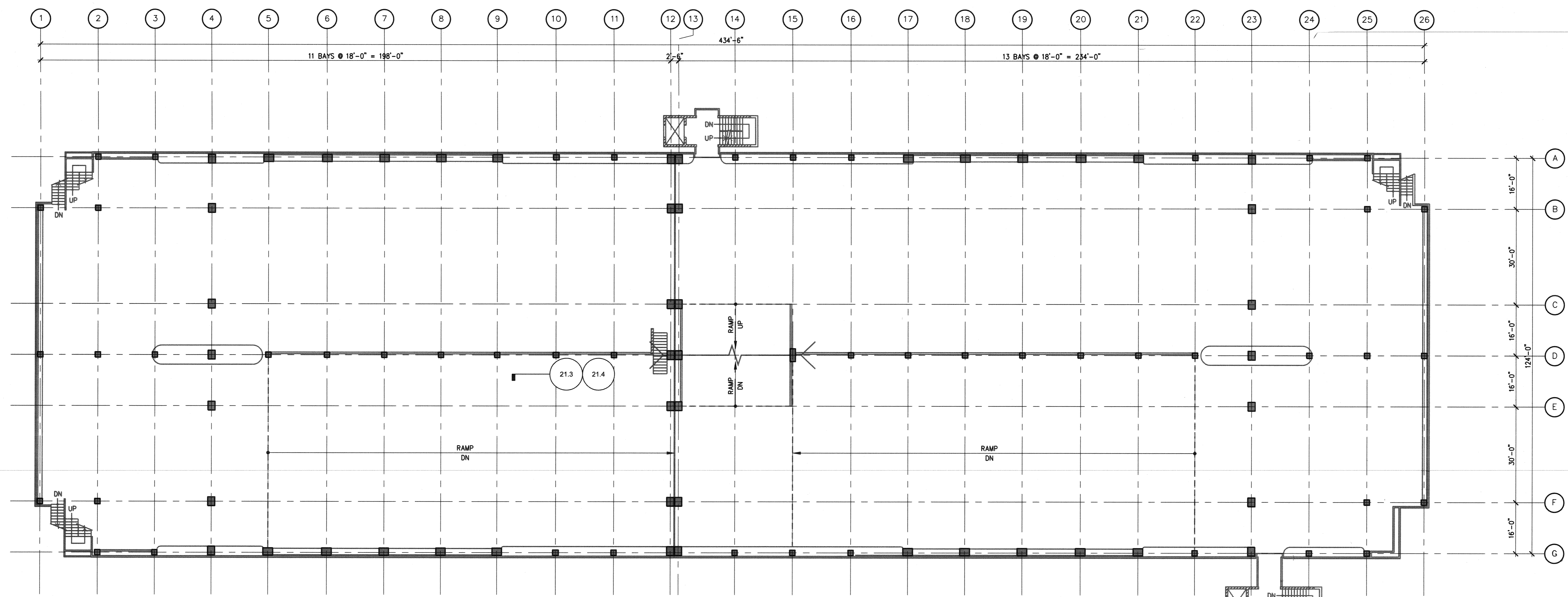
STRIPING  
 DETAILS

AG-501

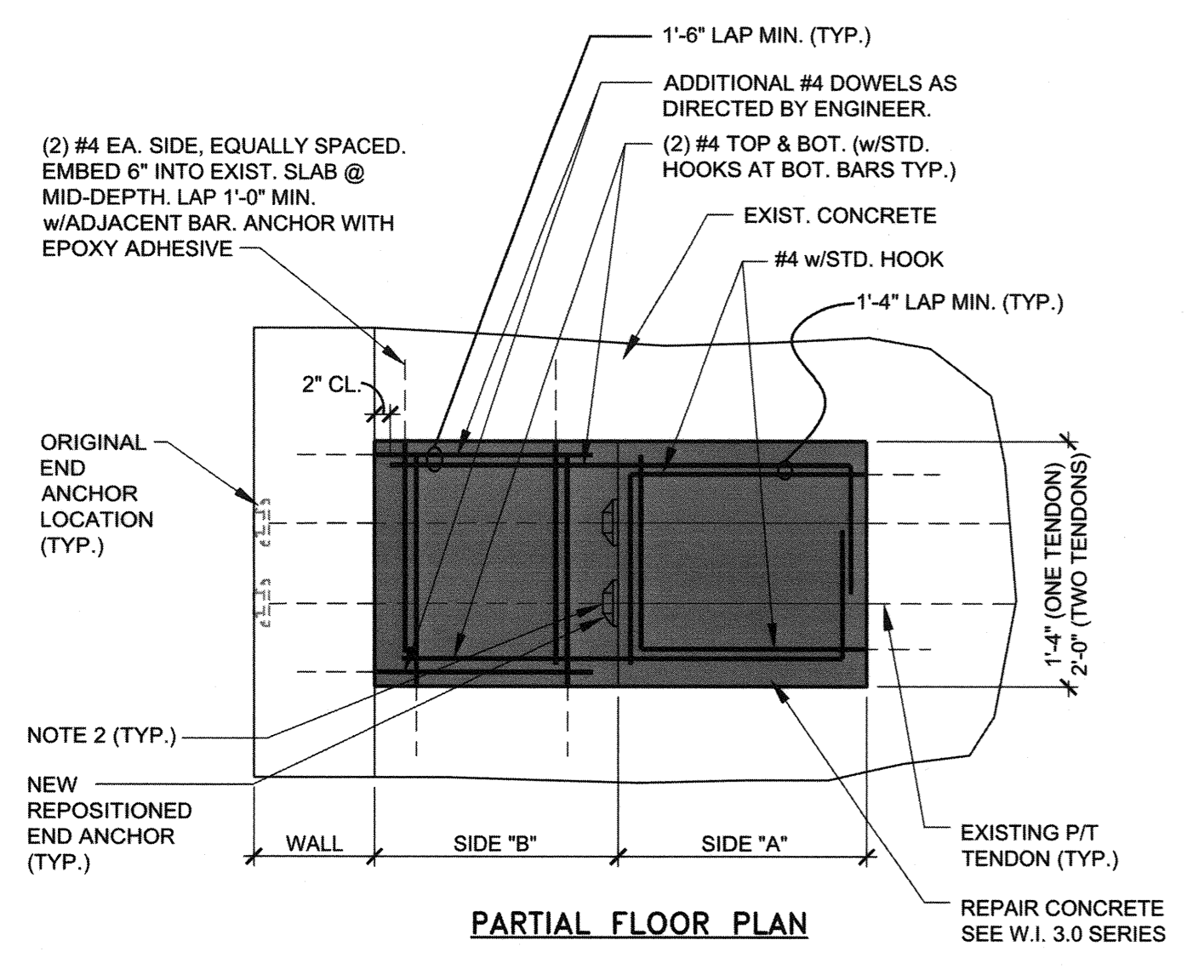


NO.	DATE	DESCRIPTION
3/23/18		95% OWNER REVIEW

PROJECT NO: 33-1873.00  
 DRAWN BY: MLG  
 CHECKED BY: JRC  
 SHEET TITLE:  
**GARAGE 1  
 LEVEL 2  
 FLOOR PLAN**  
**ALT #1**

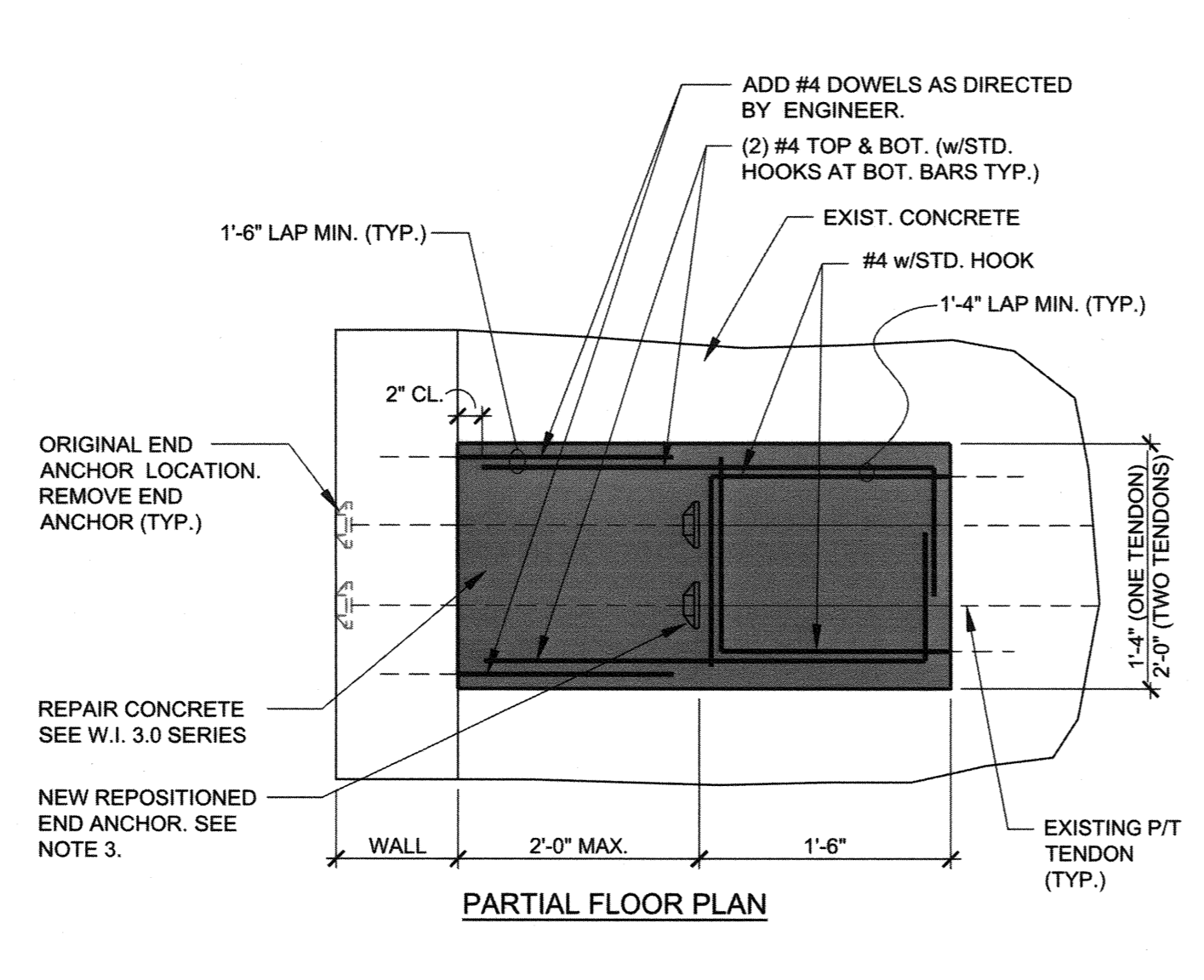


**A4 GARAGE 1 LEVEL 2 FLOOR PLAN**



**NOTES:**  
 1. THIS DETAIL TYPICALLY APPLIES WHEN A TENDON FAILURE OCCURS NEAR THE EXISTING END ANCHOR.  
 2. IF NECESSARY, PULL TENDON INTO SIDE 'B' TO PROVIDE TAIL FOR STRESSING. (MAKE ADJUSTMENT AT TENDON SPICE REPAIR LOCATION).  
 3. DEPENDING ON EXTENT OF TENDON DAMAGE, THIS REPAIR MAY NEED TO BE PERFORMED IN COMBINATION WITH OTHER TENDON REPAIRS.

**21.3 P/T TENDON END ANCHORAGE (LIVE)**



**NOTES:**  
 1. THIS DETAIL TYPICALLY APPLIES WHEN A TENDON FAILURE OCCURS NEAR AN EXISTING END ANCHOR AND STRESSING OF THE TENDON WILL OCCUR AT A DIFFERENT LOCATION AS DETERMINED BY ENGINEER.  
 3. DEPENDING ON EXTENT OF TENDON DAMAGE, THIS REPAIR MAY NEED TO BE PERFORMED IN COMBINATION WITH OTHER TENDON REPAIRS.

**21.4 P/T TENDON END ANCHORAGE (DEAD)**

**21.9 P/T TENDON MATERIAL**

SEE SPECIFICATION SECTION 020010

J:\33-1873-00-SANTA ROSA\_PARKING\_GARAGE\_#1\ACAD\REST\1873ALT-1.DWG 5/7/2018 9:57:33 AM GONZALES, MARK