CONCRETE & REPAIRS:

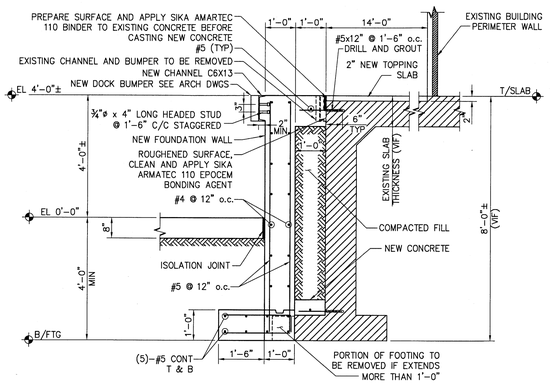
1. SAWCUT 4" BEYOND AREA TO BE REPAIRED IN A RECTANGULAR PATTERN TO A DEPTH 1/4". AVOID DAMAGING EXISTING REINFORCEMENT STEEL.
2. ROUT ALL CRACKS WIDER THAN 1/8" TO 1/4" TO A WIDTH OF 3/8" WIDE AND 3/8" DEEP (FOR CRACKS GREATER THAN 1/4" ROUTING NOT REQUIRED).
3. REMOVE ALL LOOSE/UNSOUND CONCRETE.
4. WHERE REINFORCING IS EXPOSED, REMOVE CONCRETE AROUND REINFORCING TO A DEPTH OF 1/2" OR DIAMETER OF THE EXPOSED REBAR AND 12" BEYOND VISIBLE RUSTING.
5. REMOVE ALL RUST BY WIRE BRUSHING.
6. IF CORROSION OF REINFORCING HAS CAUSED A LOSS OF DIAMETER BY 10% (OR MORE), REPLACE CORRODED W.W.F WITH NEW W.W.F. OF EQUAL SIZE, LAP NEW W.W.F WITH EXISTING BY 6" OR REPLACE CORRODED REBAR WITH NEW REBAR OF EQUAL SIZE UP TO A MAX. REBAR SIZE OF 1/2" DIA. LAP NEW REBAR WITH EXISTING BY 12" AND WELD. SPLICE REBAR AS PRESCRIBED IN THE DIAGRAM AND TABLE (PER DETAIL-5)WELDING WILL BE PERFORMED IN ACCORDANCE WITH AWS D1.4 CODE REQUIREMENTS.
7. CLEAN DIRT, OIL AND PAINT ETC. AND DRY ALL MOISTURE / CLEAN AREA IN ACCORDANCE WITH SIKA REQUIREMENTS.
8. COAT REINFORCING AND EXPOSED CONCRETE WITH SIKA ARMATEC 110 EPECEM BONDING AGENT.
9. PATCH WITH SIKATOP 123 PLUS, APPLICATION AND CURING TO BE IN ACCORDANCE w/ MANUFACTURER'S REQUIREMENT.
10. FOR SPALL REPAIRS THAT ARE DEEPER THAN 1 1/2" APPLY SIKATOP 123 PLUS IN MULTIPLE LIFTS. REPAIRED SURFACE TO BE FLUSH WITH ADJACENT CONCRETE.
11. REATTACH ALL EQUIPMENT AND PIPING TO ORIGINAL/PROPOSED LOCATIONS BY USING 1/2" DIA. X 3 1/2" MIN. HILTI KWIK BOLT 3 OR EQUIVALENT, AFTER REPAIR IS CURED FOR 7 DAYS.
12. PATCH SURFACE AS NECESSARY TO MAKE SPALLED AREA FLUSH WITH ADJACENT SURFACE.
13. TOP COATING:
    -CRACK BRIDGING AND WATERPROOFING TRAFFIC SYSTEM.
14. SPALL REPAIR:
    - CEMENTITIOUS NON-SAG MORTAR.
15. CONCRETE CORROSION INHIBITING:
16. ANTI-REBAR CORROSION & BONDING AGENT.

NOTES:

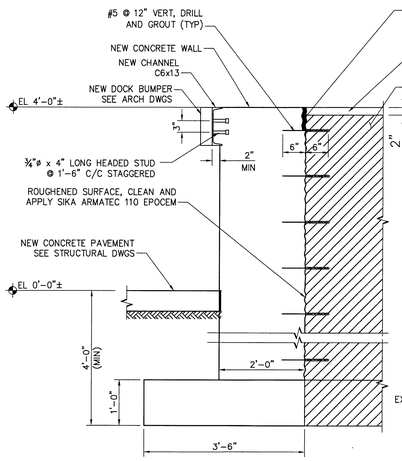
1. INSTALLATION OF REPAIR MATERIAL SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS INCLUDING SURFACE PREPARATIONS, MATERIAL PREPARATIONS, AND CURING.
2. PROPOSED ALTERNATE MATERIALS TO BE APPROVED BY ENGINEER PRIOR TO USE.

NOTE FOR TOPPING SLAB REPLACEMENT:

1. REMOVE 2" OF CONCRETE TOPPING IN THE SHADED AREA AS MARKED ON S201.
2. CLEAN AND PREPARE THE SURFACE FOR BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
3. APPLY BONDING AGENT AND REINFORCEMENT PROTECTION IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. BASIS OF DESIGN IS "ARMATAC 110 EPO-CEM" BONDING AGENT MANUFACTURED BY SIKA CORPORATION, BUT IT IS NOT INTENDED TO LIMIT SELECTION. CONTRACTOR SHALL PROVIDE PRODUCT OF EQUAL PERFORMANCE AND QUALITY.
4. APPLY 2" OF POLYMER-MODIFIED, CEMENTITIOUS, NON-SAG MORTAR TOPPING, HAVING A 28 DAY COMPRESSIVE STRENGTH OF 7000 PSI. BASIS OF DESIGN IS "ARMATAC 110 EPO-CEM" BONDING AGENT MANUFACTURED BY SIKA CORPORATION, BUT IT IS NOT INTENDED TO LIMIT SELECTION. CONTRACTOR SHALL PROVIDE PRODUCT OF EQUAL PERFORMANCE AND QUALITY. NEW TOPPING SHALL BE SLOPED TO DRAIN.
5. CLEAN AND PREPARE THE SURFACE FOR ELASTOMETRIC TRAFFIC SYSTEM IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
6. APPLY ELASTOMETRIC, CRACK-BRIDGING, WATERPROOFING TRAFFIC SYSTEM. BASIS OF DESIGN IS "ARMATAC 110 EPO-CEM" BONDING AGENT MANUFACTURED BY SIKA CORPORATION, BUT IT IS NOT INTENDED TO LIMIT SELECTION. CONTRACTOR SHALL PROVIDE PRODUCT OF EQUAL PERFORMANCE AND QUALITY.
7. APPLY NON-SLIP SURFACE COATING (SIKAFLOOR-105 OR SIMILAR). MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED.



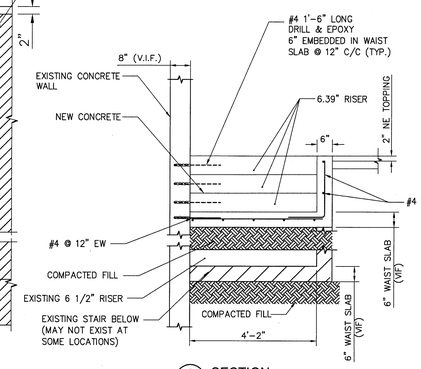
1 SECTION S201 SCALE: 1/2" = 1'-0"



2 SECTION S201 SCALE: 3/4" = 1'-0"

NOTE:

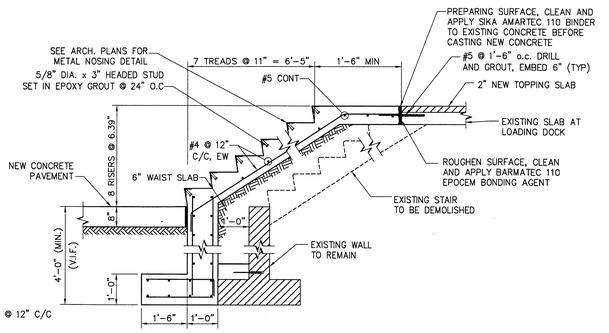
1. REINFORCEMENT IN NEW WALL NOT SHOWN FOR CLARITY.
2. SEE SECTION 1, SIMILAR.



6 SECTION S201 SCALE: 1/2" = 1'-0"

NOTES:

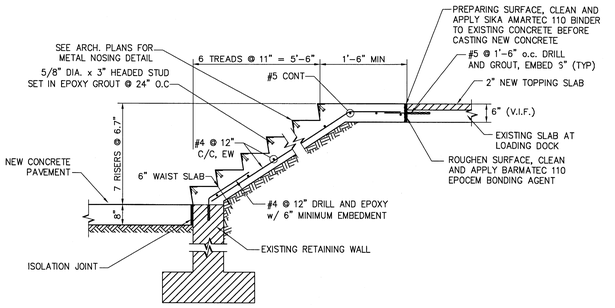
1. SEE STAIR SECTIONS FOR ADDITIONAL REINFORCEMENT.



3 SECTION S201 SCALE: 1/2" = 1'-0"

NOTE:

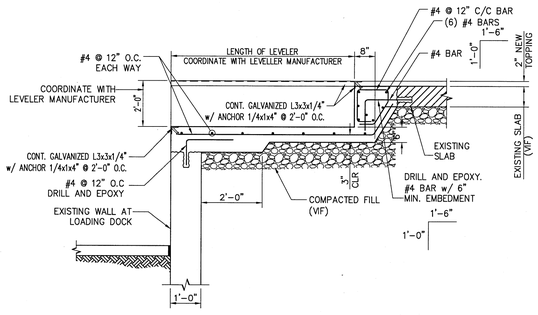
1. HANDRAIL NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS.
2. DEPTH OF NEW FOOTING TO MATCH EXISTING.



7 SECTION S201 SCALE: 1/2" = 1'-0"

NOTE:

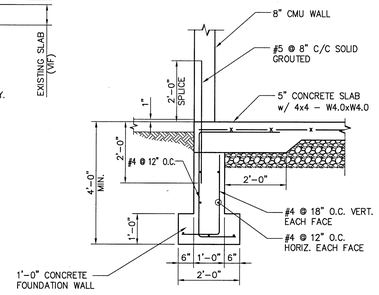
1. HANDRAIL NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS.



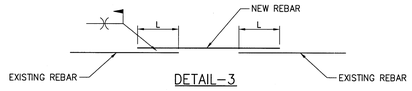
4 SECTION S201 SCALE: 1/2" = 1'-0"

NOTES:

1. SIMILAR AT ALL LEVELER LOCATIONS.



5 SECTION S201 SCALE: 1/2" = 1'-0"



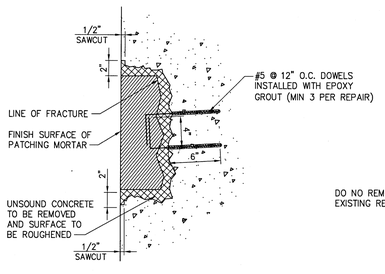
DETAIL-3

NOTE:

IF EXISTING REBAR DIAMETER IS REDUCED BY 10% OR MORE, PROVIDE NEW REBAR TO MATCH EXISTING. SPLICE REBAR AS DESCRIBED IN THE DIAGRAM ABOVE AND THE TABLE BELOW.

TYPICAL REBAR SPLICE		
REBAR SIZE	WELD SIZE	L (INCHES)
#4	1/4"	2
#5	5/16"	2 1/2
#6	5/16"	3
#7	5/16"	3 1/2
#8	5/16"	4

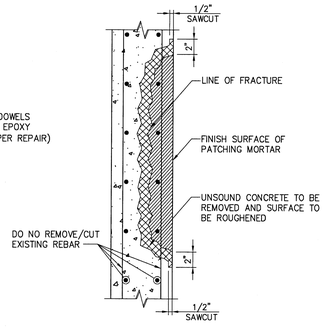
CONCRETE WALL SPALL REBAR SPLICE REPAIR DETAIL (IF AND WHERE NEEDED)
SCALE: N.T.S.



DETAIL-1
CONCRETE WALL SPALL REPAIR
SCALE: 1 1/2" = 1'-0"

NOTES:

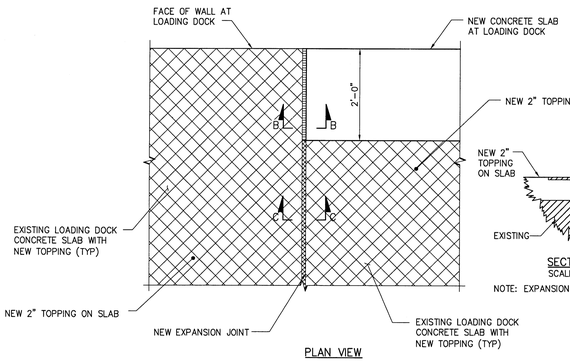
1. PREPARE SURFACE PER NOTES 1, 3, 4, 5, 6 AND 7.
2. PERFORM REPAIRS PER NOTES 8, 9, 10, 11 AND 12.
3. FOR MATERIALS, SEE NOTES 14, 15 AND 16.



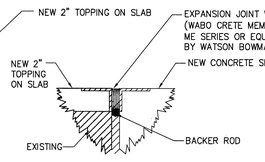
DETAIL-2
CONCRETE WALL SPALL REPAIR
SCALE: 1 1/2" = 1'-0"

NOTES:

1. PREPARE SURFACE PER NOTES 1, 3, 4, 5, 6 AND 7.
2. PERFORM REPAIRS PER NOTES 8, 9, 10, 11 AND 12.
3. FOR MATERIALS, SEE NOTES 14, 15 AND 16.

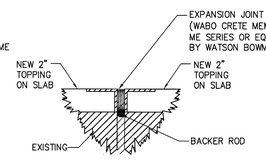


PLAN VIEW



SECTION B-B
SCALE: NTS

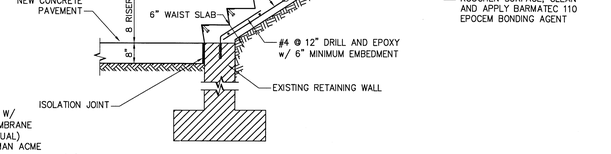
NOTE: EXPANSION JOINT TO MATCH EXISTING.



SECTION C-C
SCALE: NTS

NOTE: EXPANSION JOINT TO MATCH EXISTING.

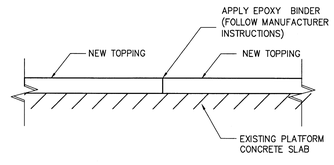
A LOADING DOCK EXPANSION JOINT DETAIL
S201 SCALE: N.T.S.



8 SECTION S201 SCALE: 1/2" = 1'-0"

NOTES:

1. HANDRAIL NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS
2. DEPTH OF FOOTING TO MATCH EXISTING.



BUTT CONSTRUCTION JOINT AT LOADING DOCK PLATFORM
SCALE: N.T.S.

FINAL SUBMISSION

Revisions	Date

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P.O. BOX 2060, BEAUFORT, S.C. 29901-2060 843-522-2094

Drawing Title: LOADING DOCK SECTIONS AND MISCELLANEOUS SECTIONS

Approved Project Director:

Project Title: CORRECT SAFETY DEFICIENCIES AT LOADING DOCK JAMES PETERS MEDICAL CENTER, BRONX, NY

Location:

Date: 11/07/2014 | Checked: ID | Drawn: JSR

Project Number: 526-13-108

Building Number: N/A

Drawing Number: S301

Dwg. 16 of 38

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231