



UTILITY PLANS FOR WILDWOOD WWTF HEADWORKS REHAB

CITY OF WILDWOOD, FLORIDA

SECTION 7 TOWNSHIP 19 SOUTH, RANGE 23 EAST

SEPTEMBER 2022



PROJECT LOCATION

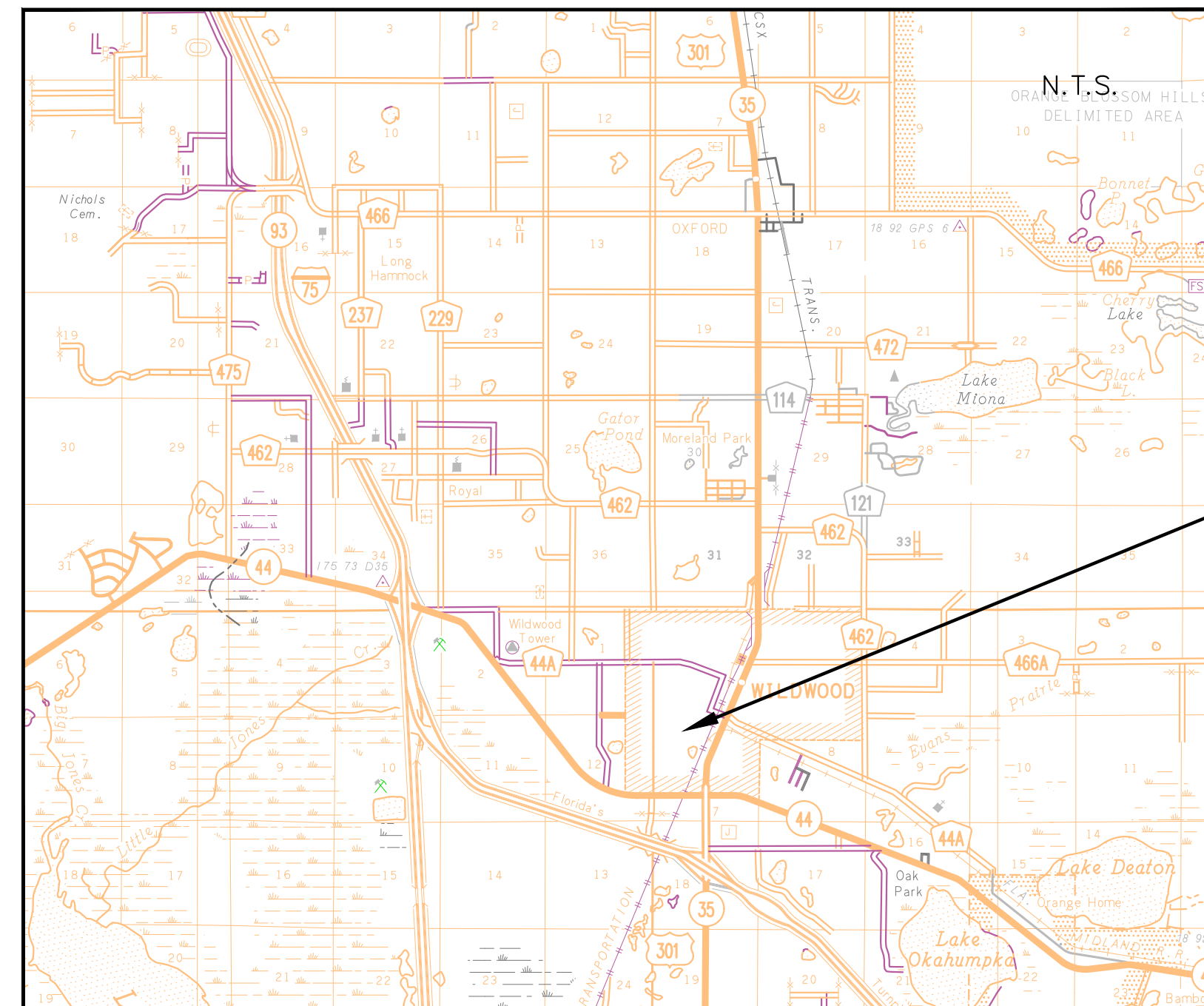
GENERAL NOTES

CONSTRUCTION SCHEDULE:
FALL 2022

DRAINAGE:
THE EXISTING STORMWATER DRAINAGE SYSTEM SHALL REMAIN FUNCTIONAL AND BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.

CONSTRUCTION:
ALL CONSTRUCTION COVERED BY THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE CITY OF WILDWOOD LAND DEVELOPMENT CODE.

- SHEET LIST TABLE
- 01 - COVER SHEET
 - 02 - GENERAL NOTES
 - 03 - EXISTING HEADWORKS PLAN & DEMOLITION PLAN
 - 04 - HEADWORKS STRUCTURAL REPAIR PLAN
 - 05 - HEADWORKS MECHANICAL REPAIR PLAN
 - 06 - STRUCTURAL DETAILS



PROJECT LOCATION

LOCATION MAP

PROJECT OWNER AND CONSULTANTS

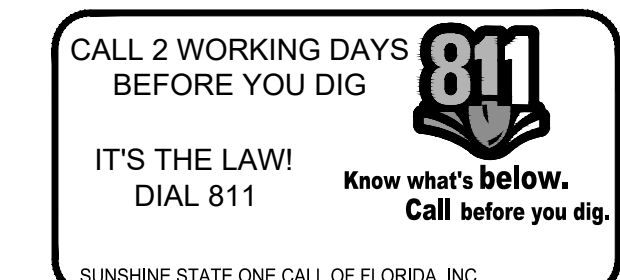
OWNER:
CITY OF WILDWOOD
JASON MCHUGH, CITY MANAGER
100 N. MAIN STREET
WILDWOOD, FL 34785
PHONE: (352) 330-1330

CIVIL ENGINEERING CONSULTANT:
KIMLEY-HORN AND ASSOCIATES, INC.
101 E SILVER SPRINGS BLVD., SUITE 400
OCALA, FLORIDA 34470
(352) 438-3000

UTILITY CONTACT LISTING

<u>CABLE</u> CENTURY LINK GREG SCHMID (352) 401-6555	<u>ELECTRIC</u> SUMTER ELECTRIC COOPERATIVE ALAN KIMBLEY (352) 569-9644
<u>ELECTRIC</u> DUKE ENERGY - DISTRIBUTION ROBB BROWN (352) 459-4671	<u>GAS</u> TECO PEOPLES GAS - Ocala CHRIS URIA (352) 401-3428
<u>DUKE ENERGY - TRANSMISSION</u> FRANCIS CASTRO (813) 909-1210	<u>TELEPHONE</u> VERIZON FLORIDA CHUCK CZUMAK (941) 906-6703

**BID SET NOT FOR
CONSTRUCTION**



Kimley»Horn	© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 101 EAST SILVER SPRINGS BLVD., SUITE 400, Ocala, FL 34470 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106			
LICENSED PROFESSIONAL	SETH SCHMID	FLORIDA LICENSE NUMBER 54640		
KHA PROJECT 142173429	DATE SEPTEMBER 2022	SCALE AS SHOWN	DESIGNED BY KHA	PHS
DRAWN BY	CHECKED BY	SS	DATE	BY
COVER SHEET				
WILDWOOD WWTF HEADWORKS REHAB PREPARED FOR CITY OF WILDWOOD FLORIDA				
SHEET NUMBER 01				

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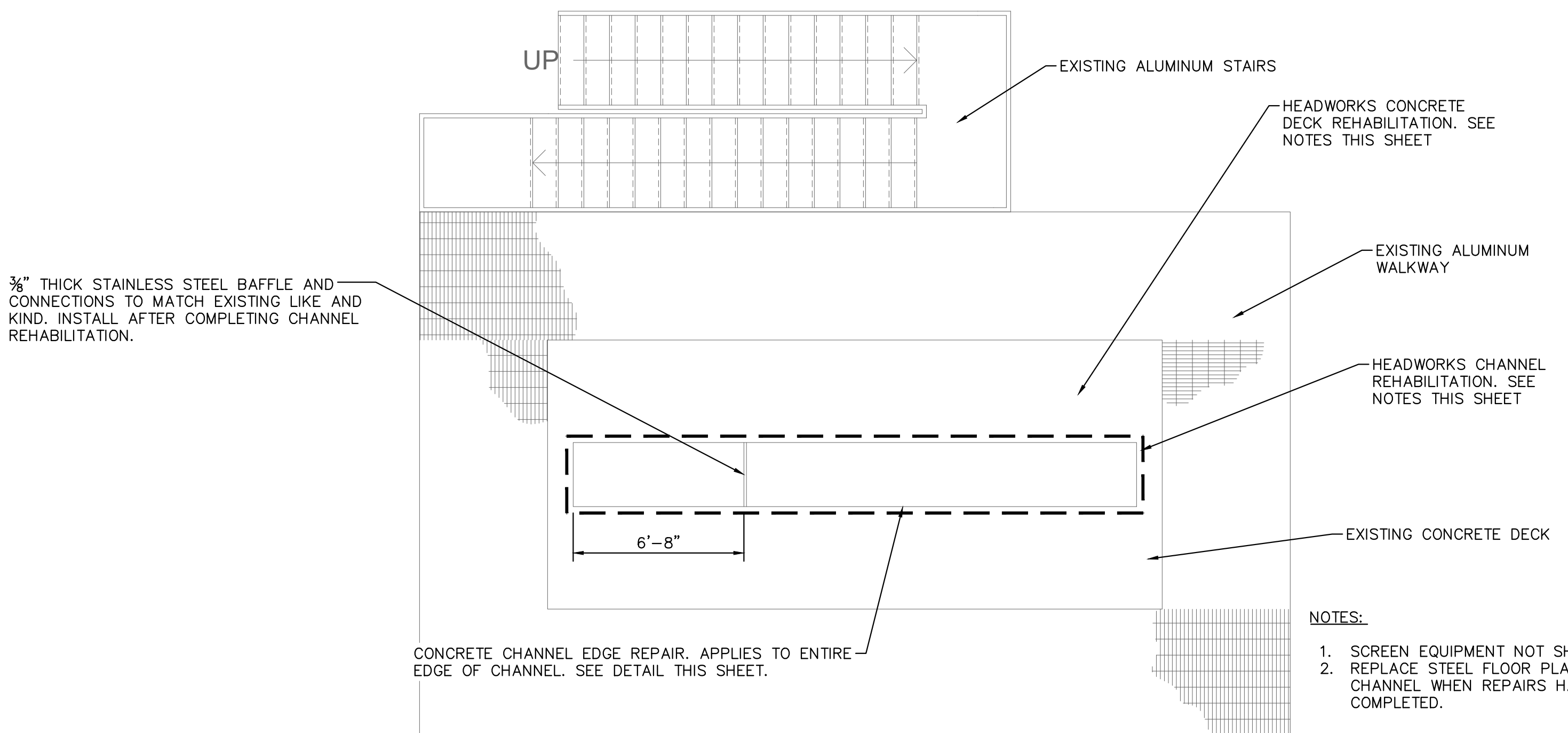
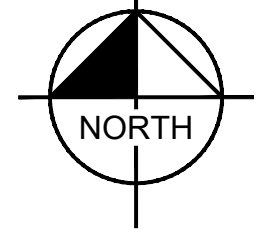
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HEADWORKS DECK REHABILITATION:

1. ABRASIVELY BLAST CLEAN EXPOSED HORIZONTAL AND VERTICAL SURFACES OF EXISTING CONCRETE DECK. PROTECT EXISTING EQUIPMENT AND ATTACHMENTS ON DECK FROM DAMAGE. FOR SPALLED AND SPALLING AREAS, REMOVE CRACKED AND LOOSE CONCRETE DOWN TO SOUND CONCRETE.
2. REPAIR DETERIORATED CONCRETE ALONG EDGES OF CHANNELS PER RECOMMENDATIONS THIS SHEET.
3. PREPARE SURFACE FOR REPAIR PER SPECIFICATION SECTION 03110 AND MANUFACTURER'S RECOMMENDATIONS.
4. APPLY SURFACE REPAIR MORTAR PER SPECIFICATION SECTION 03110 AND MANUFACTURER'S RECOMMENDATIONS. FILL IN ALL CRACKS, VOIDS, AND UNEVEN AREAS TO PRODUCE A SMOOTH, LEVEL DECK SURFACE.
5. APPLY HIGH PERFORMANCE COATING SYSTEM PER SPECIFICATION SECTION 09300 AND MANUFACTURER'S RECOMMENDATION. BROADCAST SAND OVER THE WALKING SURFACE WHILE THE TOP COAT IS STILL WET FOR A NON-SKID APPLICATION.
6. APPLY CLEAR UV PROTECTION GLAZE TO THE HORIZONTAL AND VERTICAL DECK SURFACES PER SPECIFICATION SECTION 09300 AND THE MANUFACTURER'S RECOMMENDATIONS.

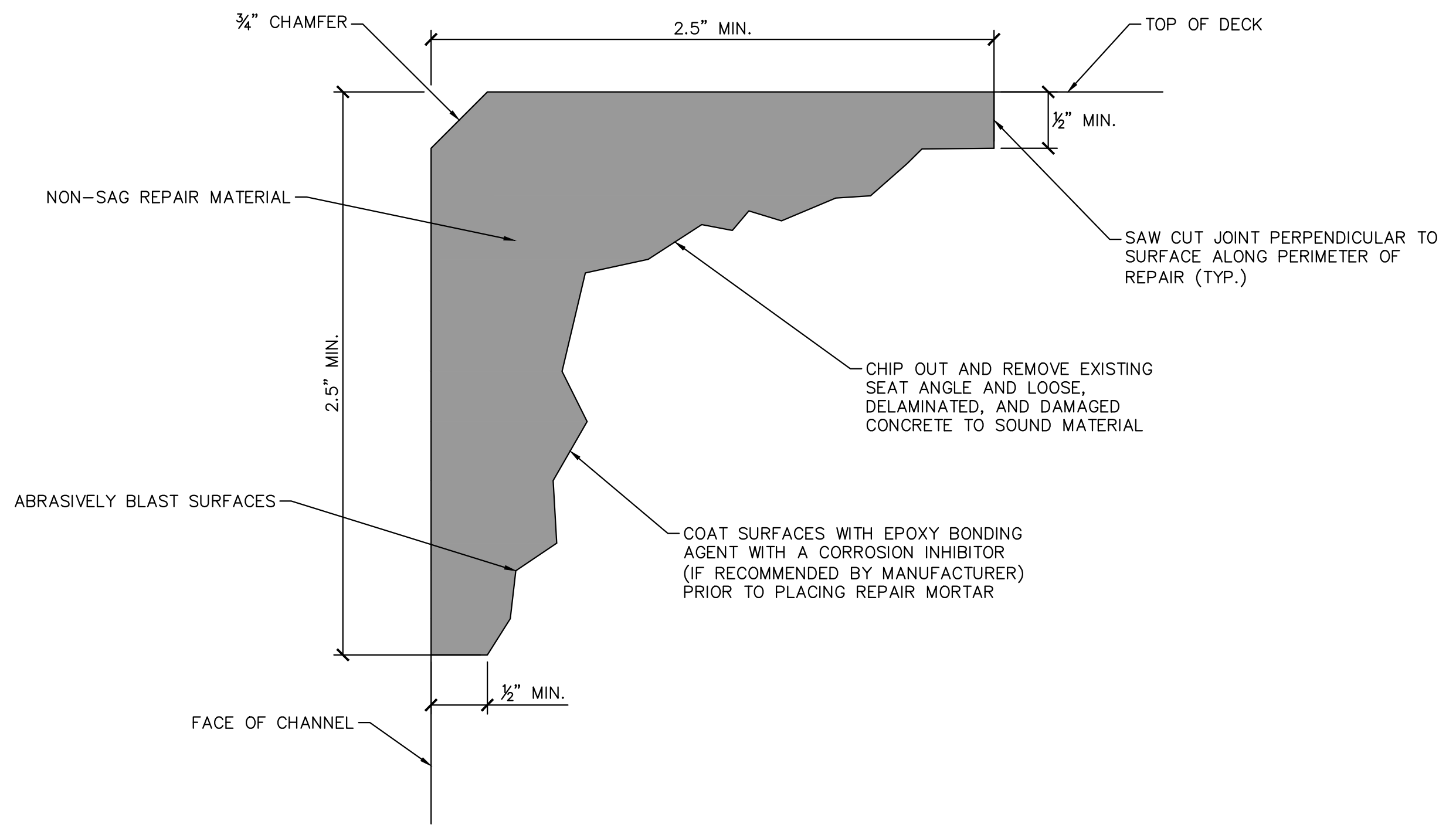
CHANNEL REHABILITATION

1. ALL EXPOSED CONCRETE SURFACES WITHIN THE CHANNEL SHALL BE ABRASIVELY BLAST OR MECHANICALLY CLEANED TO COMPLETELY REMOVE THE EXISTING CHANNEL COATING TO CLEAN, SOUND CONCRETE.
2. COORDINATE WITH THE PROJECT ENGINEER TO IDENTIFY AREAS FOR REPAIR WITHIN THE CHANNEL.
3. REMOVE REMAINING DAMAGED, DETERIORATING, OR DELAMINATED CONCRETE. CLEAN AND PREPARE SURFACE FOR REPAIR PER SPECIFICATION SECTION 03110 AND MANUFACTURER'S RECOMMENDATIONS
4. REPAIR CONCRETE AND EXPOSED, CORRODED REINFORCEMENT PER THE DETAILS ON SHEETS 04 AND 06, SPECIFICATION SECTION 03110 AND THE MANUFACTURER'S RECOMMENDATIONS.
5. APPLY HIGH PERFORMANCE COATING SYSTEM PER SPECIFICATION SECTION 09300 AND MANUFACTURER'S RECOMMENDATIONS.

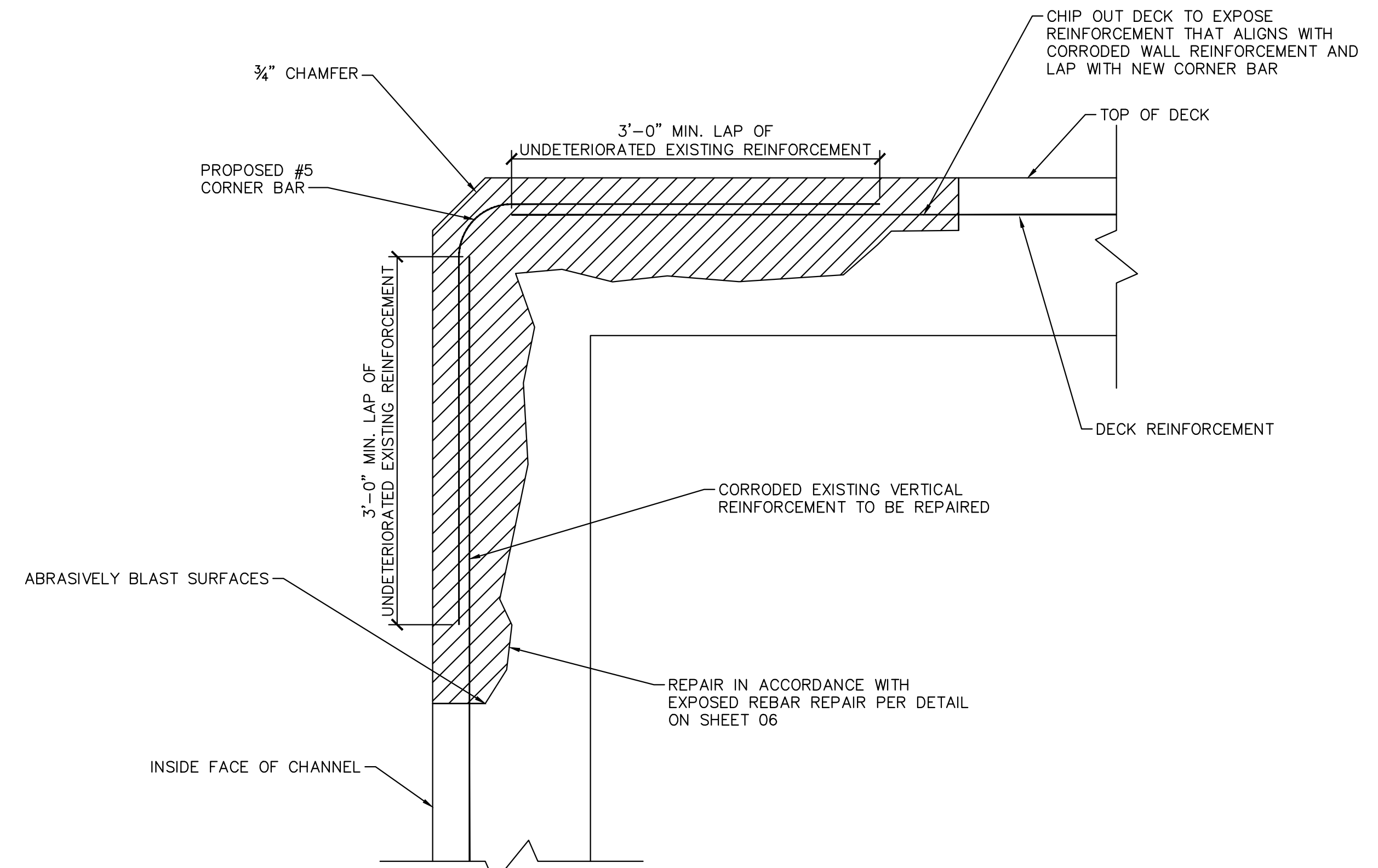


HEADWORKS REPAIR PLAN
SCALE: 3" = 1'-0"

- NOTES:**
1. SCREEN EQUIPMENT NOT SHOWN FOR CLARITY.
 2. REPLACE STEEL FLOOR PLATES OVER CHANNEL WHEN REPAIRS HAVE BEEN COMPLETED.



CONCRETE CHANNEL EDGE REPAIR
N.T.S.



REPAIR DETAIL FOR VERTICAL REINFORCEMENT
WITHIN 3'-6" OF THE TOP OF DECK
N.T.S.

NO.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL
 SETH SCHMID
 FLORIDA LICENSE NUMBER
 54640

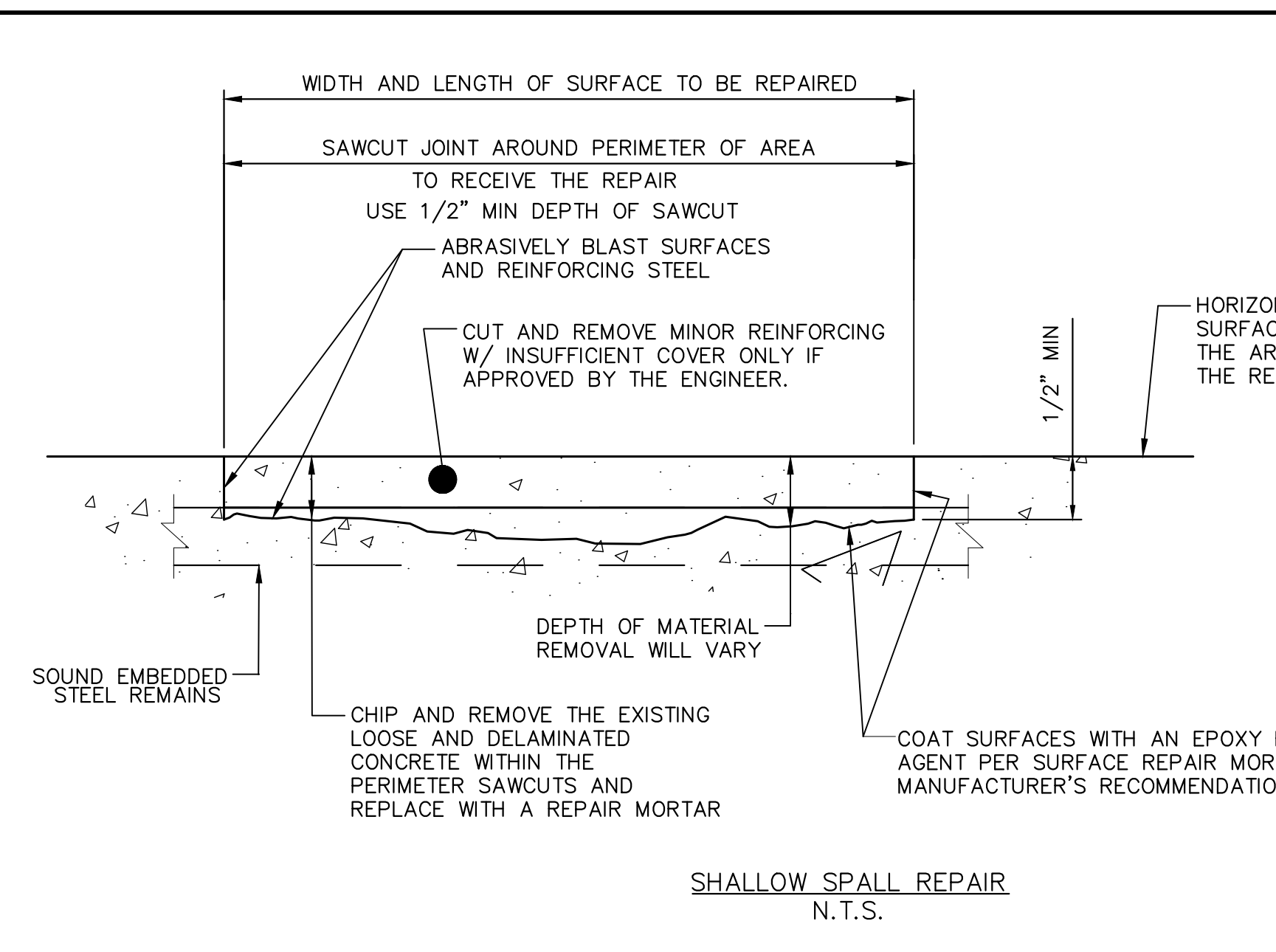
KHA PROJECT 142173429	DATE SEPTEMBER 2022	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY PHS	CHECKED BY SS
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**HEADWORKS
STRUCTURAL REPAIR
PLAN**

**WILDWOOD WWTF
HEADWORKS REHAB
PREPARED FOR
CITY OF WILDWOOD**
FLORIDA

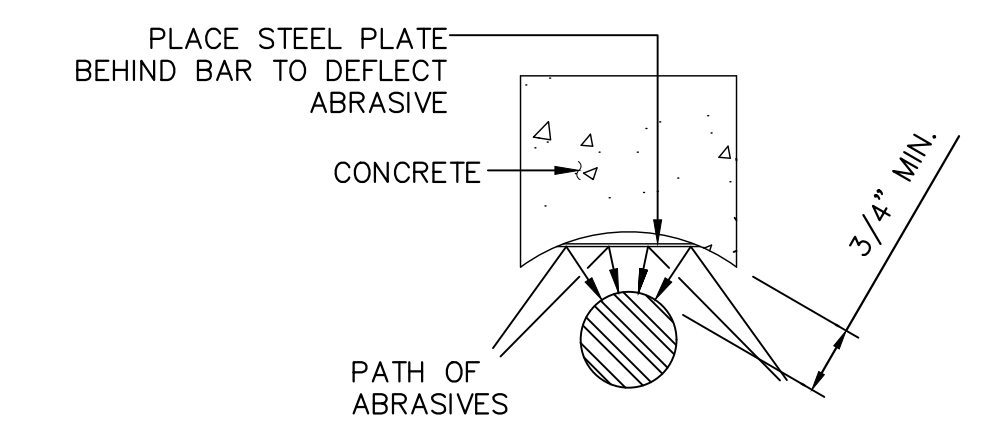
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 XREFS: xbrdm-12173429 id-address-ccc Drawings\05

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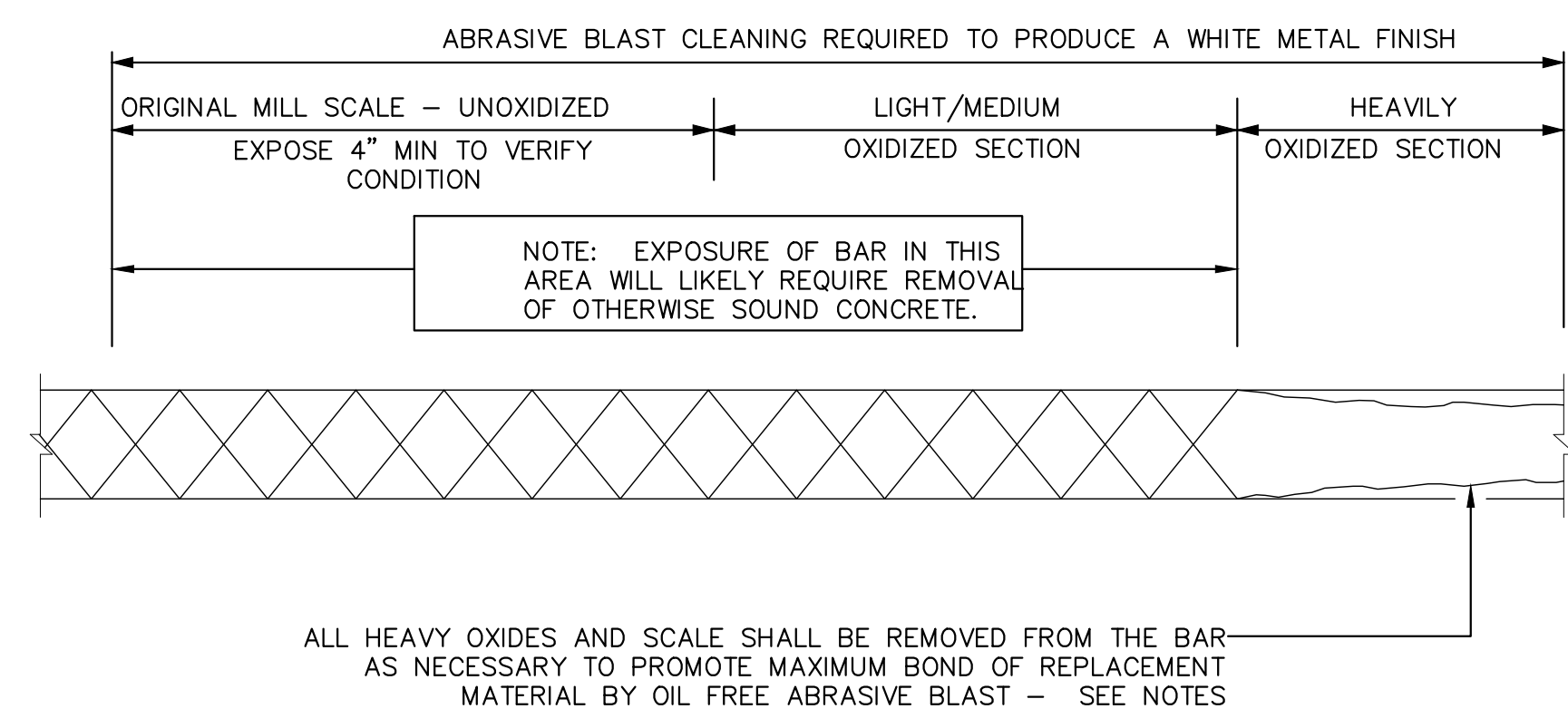


SHALLOW SPALL REPAIR
N.T.S.

- NOTES:**
1. THE PURPOSE OF THIS REPAIR IS TO MAKE SURFACE REPAIRS AT ALL LOOSE, DELAMINATED OR OTHER UNSOUND CONCRETE.
 2. THE CONTRACTOR SHALL IDENTIFY ADDITIONAL LOCATIONS FOR THIS REPAIR AS REPAIR WORK PROGRESSES. LOCATIONS TO RECEIVE THIS REPAIR SHALL BE VERIFIED BY THE PROJECT ENGINEER.
 3. THIS REPAIR MAY BE USED ON SLABS, CURBS, WALLS, COLUMNS, OR OTHER SPALLS THAT HAVE MINOR EXPOSED REINFORCEMENT AND CORROSION IS NOT SIGNIFICANT.
 4. THIS REPAIR MAY BE USED FOR HORIZONTAL, VERTICAL, OR OVERHEAD REPAIRS. WHERE NECESSARY USE NON-SAG REPAIR MORTAR OR FORM AND CAST A FLOWABLE REPAIR MORTAR PER SPECIFICATIONS.
 5. WHERE THERE IS A CRACK OR CONTROL JOINT THRU AN AREA TO BE REPAIRED, ROUT THE CRACK OR CONTROL JOINT SUFFICIENTLY TO INSERT A PLASTIC STRIP THAT WILL MARK THE PATH. REPAIR AND TROWEL EACH SIDE OF THE JOINT SEPARATELY. AFTER THE REPAIR MORTAR HAS CURED, ROUT AND SEAL IN ACCORDANCE WITH CORRESPONDING REPAIR TYPE.
 6. IN MANY CASES THERE MAY BE NO REINFORCING STEEL VISIBLE.

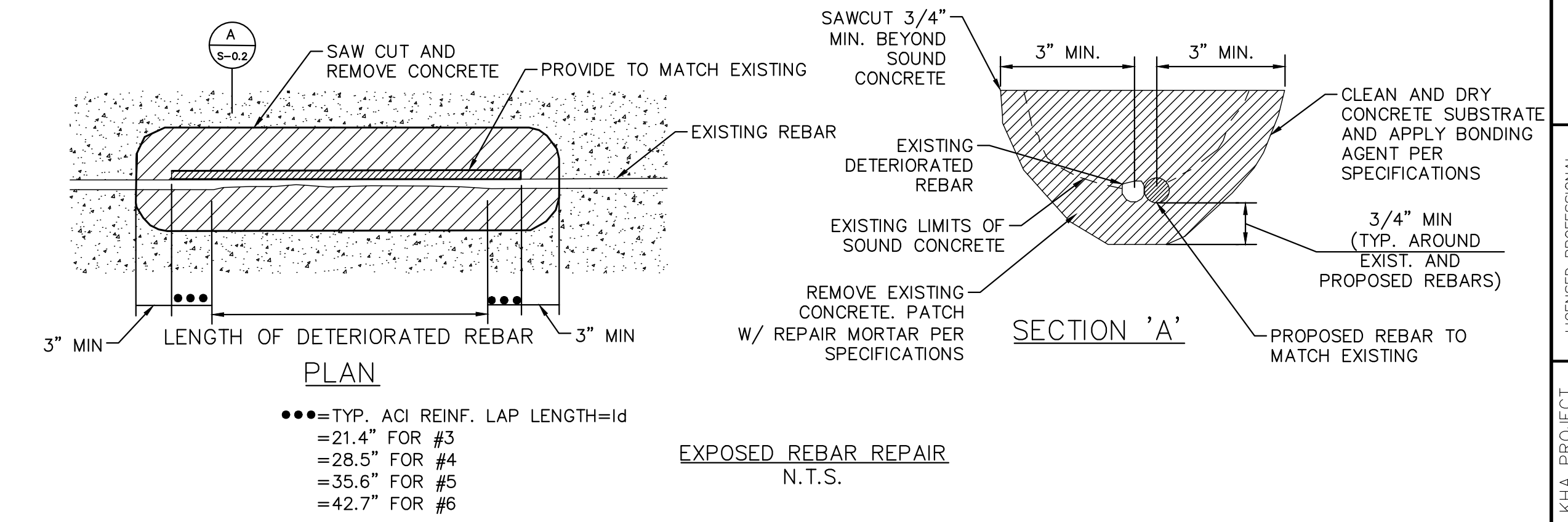


REINFORCING STEEL CLEANING REPAIR
N.T.S.

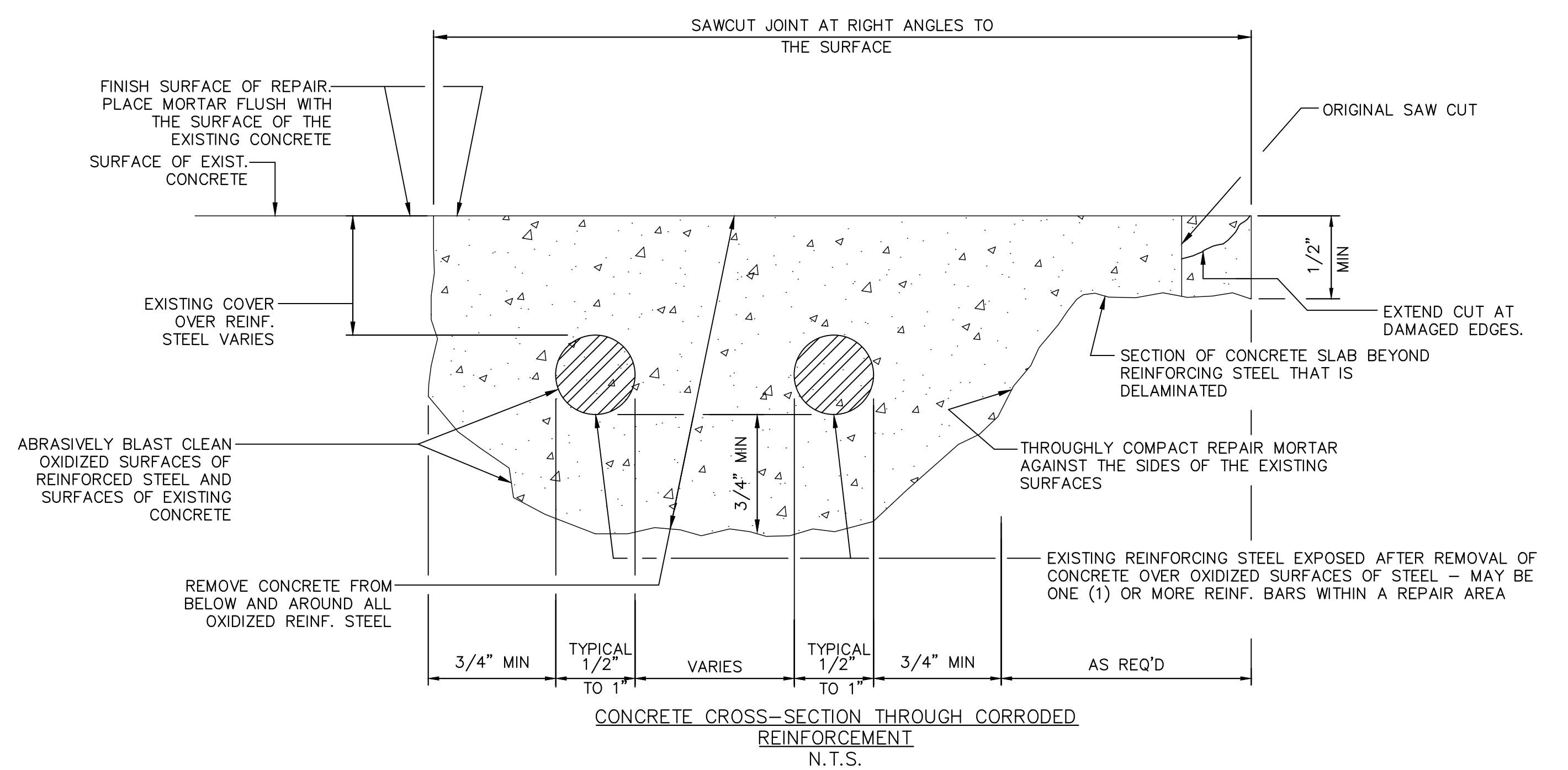


LONGITUDINAL REINFORCEMENT SECTION - REINFORCING STEEL CLEANING
N.T.S.

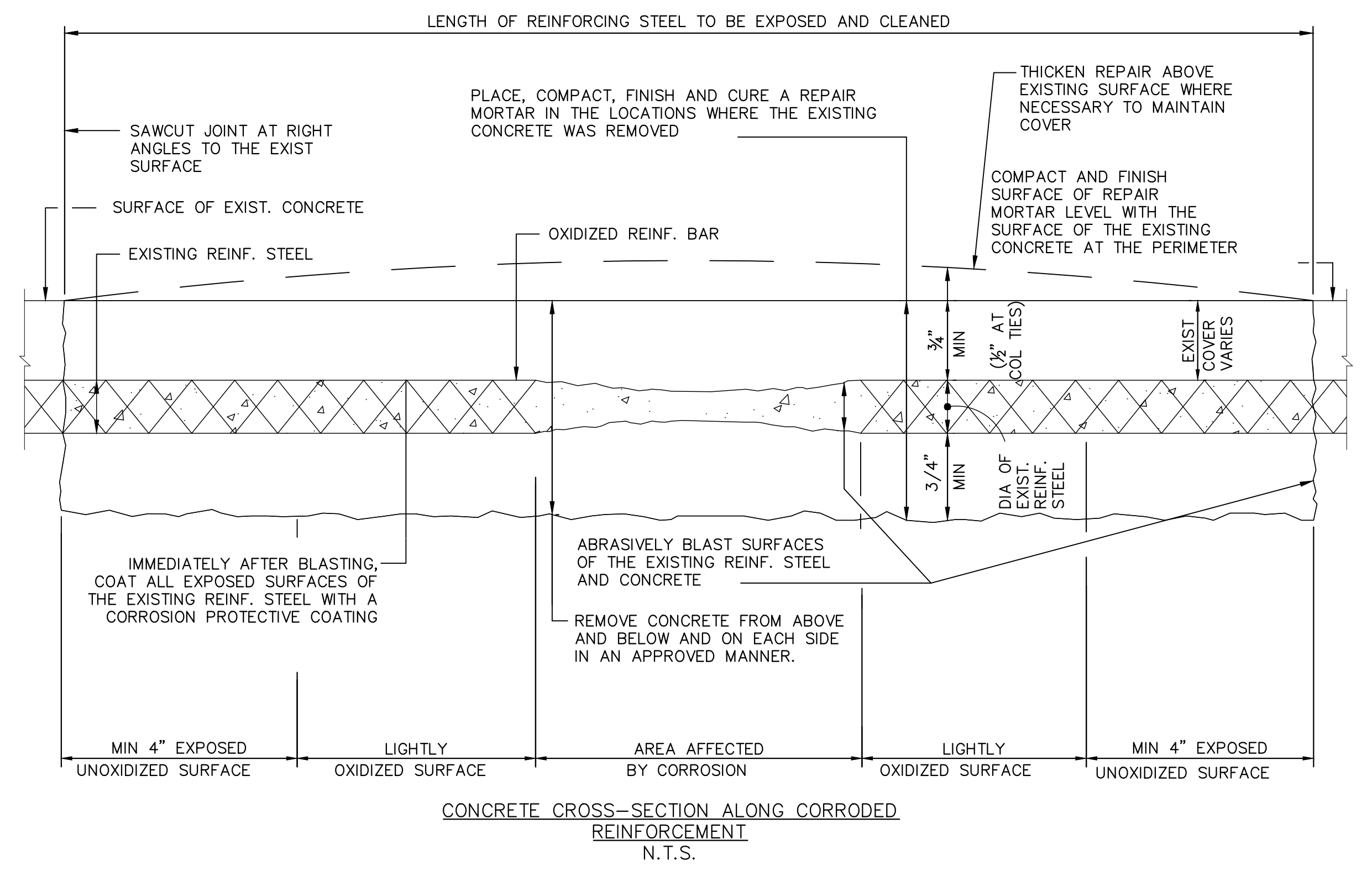
- NOTES:**
1. THE PURPOSE OF THIS REPAIR IS TO REMOVE LOOSE AND DELAMINATED SECTIONS OF CONCRETE WITH SIGNIFICANT EXPOSED AND CORRODED REINFORCING STEEL.
 2. THE CONTRACTOR SHALL IDENTIFY LOCATIONS FOR THIS REPAIR AS REPAIR WORK PROGRESSES. LOCATIONS TO RECEIVE THIS REPAIR SHALL BE VERIFIED BY THE PROJECT ENGINEER.
 3. IF SPECIAL CONDITIONS ARE FOUND AFFECTING THE COMPLETION OF THE REPAIR, NOTIFY THE ENGINEER FOR EXAMINATION PRIOR TO COMPLETION OF THE REPAIR.
 4. TEMPORARY SHORING SHALL BE PROVIDED BEFORE BEGINNING CONCRETE REMOVAL WHERE STRUCTURAL INTEGRITY IS COMPROMISED.
 5. THIS REPAIR MAY BE USED FOR HORIZONTAL, VERTICAL OR OVERHEAD REPAIRS. WHERE NECESSARY USE NON-SAG OVERHEAD REPAIR MORTAR OR FORM AND CAST A FLOWABLE REPAIR MORTAR PER SPECIFICATIONS.
 6. WHERE SIGNIFICANT AMOUNTS OF MATERIAL HAVE BEEN LOST FROM THE STEEL DUE TO CORROSION, THE ENGINEER WILL DETERMINE IF ADDITIONAL REPAIR OR REINFORCEMENT IS REQUIRED.
 7. WHERE THERE IS A CRACK OR CONTROL JOINT THRU AN AREA TO BE REPAIRED, ROUT THE CRACK OR CONTROL JOINT SUFFICIENTLY TO INSERT A PLASTIC STRIP THAT WILL MARK THE PATH. REPAIR AND TROWEL EACH SIDE OF THE JOINT SEPARATELY. AFTER THE REPAIR MORTAR HAS CURED, ROUT AND SEAL IN ACCORDANCE WITH CORRESPONDING REPAIR TYPE.



EXPOSED REBAR REPAIR
N.T.S.



CONCRETE CROSS-SECTION THROUGH CORRODED REINFORCEMENT
N.T.S.



CONCRETE CROSS-SECTION ALONG CORRODED REINFORCEMENT
N.T.S.

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SHEET NUMBER 06							