Purchasing Division
Finance Department

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411 West First Street
Duluth, Minnesota 55802

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Addendum 1
Solicitation 24-99472
2024 Parking Ramps Rehabilitation

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. See attached changes to the drawings.

2. Attached is the pre-bid meeting sign-in sheet.

Please acknowledge receipt of this Addendum by checking the acknowledgement box within the www.bidexpress.com solicitation.

Posted: **June 10, 2024**

ADDENDUM #1

TO PLANS AND SPECIFICATIONS FOR:

City of Duluth
2024 Parking Ramp Rehabilitation

June 10, 2024

PALANISAMI & ASSOCIATES, INC.
Consulting Engineers
5661 International Parkway
Minneapolis, MN 55428
Phone: 763 533-9403

PAI No. 24022

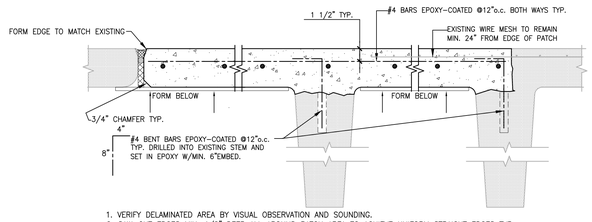
CHANGES TO PROJECT MANUAL:

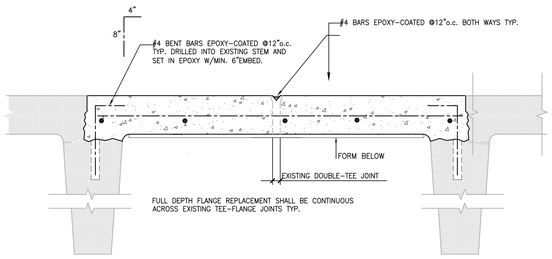
None.

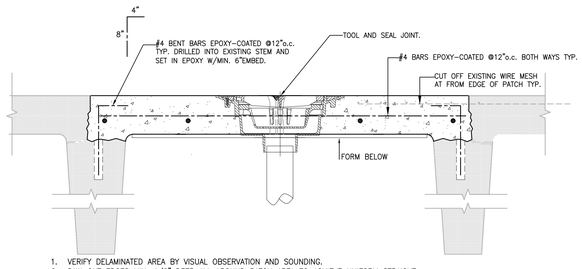
CHANGES TO THE DRAWINGS:

S7-1: Detail 4/S7-1: Add shoring notes as shown on attached revised sheet S7-1.

END OF ADDENDUM #1





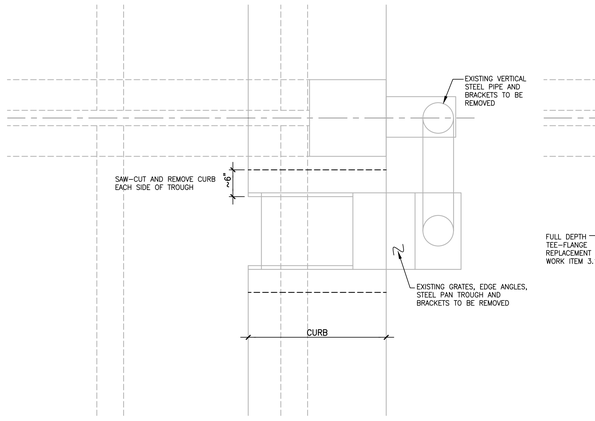


1. VERIFY DELAMINATED AREA BY VISUAL OBSERVATION AND SOUNDING.
2. SAW-CUT EDGES MIN. 1/2" DEEP ALL AROUND PATCH AREA TO ACHIEVE UNIFORM STRAIGHT EDGES TYP.
2. CHIP AND REMOVE ALL LOOSE CONCRETE AT DELAMINATED AREA FULL DEPTH. DO NOT DAMAGE EXISTING REBAR OR WWF.
4. REMOVE ALL CORROSION FROM EXISTING REBAR AND WIRE MESH AND REMAINING LOOSE CONCRETE BY SANDBLASTING.
5. COAT SANDBLASTED REBAR WITH SPECIFIED BAR COATING. COAT BARS COMPLETELY AROUND.
6. IF LOSS OF AREA OF EXISTING REBAR OR WIRE MESH IS GREATER THAN 20%, REMOVE EXISTING BAR AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. IF ENTIRE BAR IS ABLE TO BE REMOVED WITHOUT EXTENDING REPAIR INTO SOUND CONCRETE, REMOVE EXISTING AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR OR 6X6-W2.1XW2.1 EPOXY-COATED WWF AS APPLICABLE. SUPPLEMENT WITH ADDED BARS AND/OR MESH AS DIRECTED BY ENGINEER. SECURE ALL NEW AND EXISTING BARS IN PLACE WITH PLASTIC COATED TIES AS NECESSARY.
7. COAT CUT ENDS OF ALL NEW EPOXY-COATED BARS WITH SPECIFIED BAR COATING.
8. WET THE SURFACE TO ACHIEVE SATURATED-SURFACE-DRY CONDITION AT THE TIME OF NEW CONCRETE POUR. REMOVE ALL STANDING WATER.
9. APPLY CEMENT SLURRY WITH BROOM TO ALL EXISTING CONCRETE SURFACES.
10. FORM BELOW AND POUR SPECIFIED CONCRETE.
11. TOOL ALL PATCHES EDGES. BEVEL AND TOOL EDGE AT JOINT TO ACHIEVE UNIFORM JOINT PROFILE TO MATCH EXISTING.
12. APPLY LIGHT BROOM FINISH.
13. WET CURE THE PATCH MINIMUM 5 DAYS.
14. APPLY SEALANT TO ALL PATCH EDGES.
15. REMOVE ALL FORMWORK AND FOAM AT JOINTS.

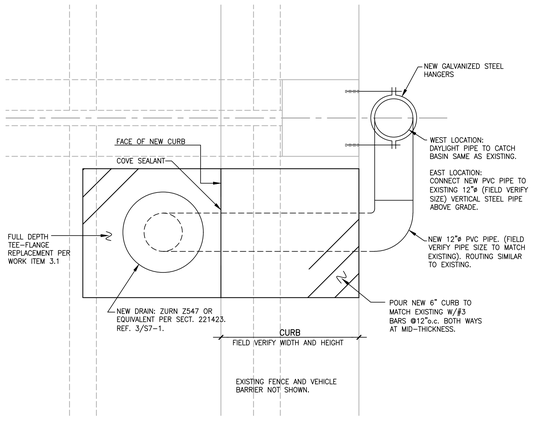
1. VERIFY DELAMINATED AREA BY VISUAL OBSERVATION AND SOUNDING.
2. SAW-CUT EDGES MIN. 1/2" DEEP ALL AROUND PATCH AREA TO ACHIEVE UNIFORM STRAIGHT EDGES TYP.
3. CHIP AND REMOVE ALL LOOSE CONCRETE AT DELAMINATED AREA FULL DEPTH.
4. REMOVE EXISTING DRAIN BODY AND SUPPORTS. NOTE: EXISTING DRAIN MAY HAVE LEAD FLASHING.
5. INSTALL NEW REBAR AS SHOWN.
6. COAT CUT ENDS OF ALL NEW EPOXY-COATED BARS WITH SPECIFIED BAR COATING.
7. INSTALL NEW VERTICAL PIPE AND DRAIN BODY PER SECT. 221423.
8. WET THE SURFACE TO ACHIEVE SATURATED-SURFACE-DRY CONDITION AT THE TIME OF NEW CONCRETE POUR. REMOVE ALL STANDING WATER.
9. APPLY CEMENT SLURRY WITH BROOM TO ALL EXISTING CONCRETE SURFACES.
10. FORM BELOW AND POUR SPECIFIED CONCRETE.
11. TOOL ALL PATCHES EDGES. BEVEL AND TOOL EDGE AT JOINT TO ACHIEVE UNIFORM JOINT PROFILE TO MATCH EXISTING.
12. APPLY LIGHT BROOM FINISH.
13. WET CURE THE PATCH MINIMUM 5 DAYS.
14. APPLY SEALANT TO ALL PATCH EDGES.
15. REMOVE ALL FORMWORK AND FOAM AT JOINTS.

1/S7-1 FULL DEPTH TEE FLANGE REPLACEMENT
SCALE: none

2/S7-1 DRAIN REPLACEMENT
SCALE: none

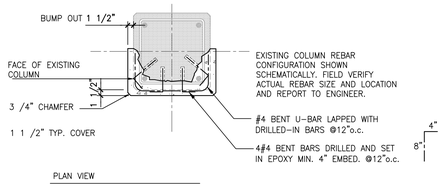


PLAN VIEW – EXISTING CONDITION – DEMO

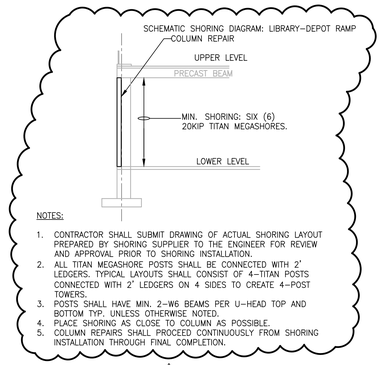


PLAN VIEW – NEW CONDITION

1. INSTALL SHORING.
2. REMOVE EXISTING FENCE ATTACHED TO COLUMN. RESTORE FENCE OR ADD PLYWOOD BARRICADE DURING NON-WORK HOURS.
3. REMOVE DRAINAGE PIPE.
4. VERIFY DELAMINATED AREA BY VISUAL OBSERVATION AND SOUNDING.
5. CHIP AND REMOVE ALL LOOSE CONCRETE AT SPALLED AREA TO SOUND CONCRETE. REMOVE CONCRETE ALL AROUND CORRODED BARS TO MINIMUM 3/4" BEHIND BAR. DO NOT DAMAGE EXISTING REBAR.
6. REMOVE ALL CORROSION FROM EXISTING REBAR AND EMBEDDED STEEL MEMBERS AND REMAINING LOOSE CONCRETE BY MEDIA-BLASTING.
7. REPORT CONDITION OF EXISTING REBAR TO ENGINEER.
8. COAT BLASTED REBAR AND EMBEDDED STEEL MEMBERS WITH SPECIFIED BAR COATING. COAT BARS COMPLETELY AROUND.
9. IF LOSS OF AREA OF EXISTING REBAR FROM CORROSION IS GREATER THAN 20%, IF DIRECTED BY ENGINEER REMOVE EXISTING BAR AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. IF ENTIRE BAR IS ABLE TO BE REMOVED WITHOUT EXTENDING REPAIR INTO SOUND CONCRETE, REMOVE EXISTING AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. SUPPLEMENT WITH ADDED BARS AS DIRECTED BY ENGINEER. SECURE ALL NEW AND EXISTING BARS IN PLACE WITH PLASTIC COATED TIES TO TAPCON ANCHORS AS NECESSARY. COAT CUT ENDS OF ALL NEW EPOXY-COATED BARS WITH SPECIFIED BAR COATING.
10. INSTALL TWO ROWS OF 1/4"ø TAPCON SCREWS @12"o.c. W/MIN. 2" EMBEDMENT DEPTH INTO SOUND CONCRETE TYP.
11. WET THE SURFACE TO ACHIEVE SATURATED-SURFACE-DRY CONDITION AT THE TIME OF NEW CONCRETE APPLICATION.
12. APPLY SPECIFIED CONCRETE REPAIR MATERIAL BY: FORMING AND POURING ONLY. DO NOT USE SHOTCRETE or HAND PATCHES UNLESS SPECIFICALLY AUTHORIZED BY ENGINEER.
13. REMOVE ALL FORMWORK.
14. REINSTALL FENCE.
15. INSTALL NEW DRAINAGE PIPE PER WORK ITEM 3.2.



PLAN VIEW



NOTES:

1. CONTRACTOR SHALL SUBMIT DRAWING OF ACTUAL SHORING LAYOUT PREPARED BY SHORING SUPPLIER TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SHORING INSTALLATION.
2. ALL TITAN MEGASHORE POSTS SHALL BE CONNECTED WITH 2" LEDGERS. TYPICAL LAYOUTS SHALL CONSIST OF 4-TITAN POSTS CONNECTED WITH 2" LEDGERS ON 4 SIDES TO CREATE 4-POST TOWERS.
3. POSTS SHALL HAVE MIN. 2-W6 BEAMS PER U-HEAD TOP AND BOTTOM TYP. UNLESS OTHERWISE NOTED.
4. PLACE SHORING AS CLOSE TO COLUMN AS POSSIBLE.
5. COLUMN REPAIRS SHALL PROCEED CONTINUOUSLY FROM SHORING INSTALLATION THROUGH FINAL COMPLETION.

1 ADDENDUM #1

3/S7-1 DRAIN REPLACEMENT TWO LOCATIONS SIMILAR
SCALE: none

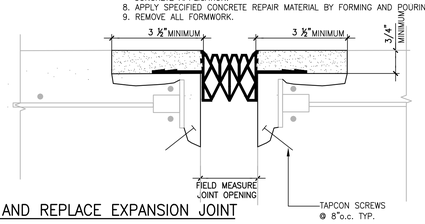
NOTES:

1. REMOVE EXISTING WING-FLANGE EXPANSION JOINT ENTIRELY.
2. SANDBLAST BLOCK-OUT TO REMOVE ALL LAITANCE, ADHESIVE, LOOSE CONCRETE, OLD HEADER MATERIAL, AND DEBRIS.
3. FIELD MEASURE JOINT OPENING, CHOOSE JOINT SIZE BASED ON CURRENT OPENING WIDTH AND EXPECTED THERMAL MOVEMENT AS SPECIFIED BY THE ENGINEER. SUBMIT JOINT TO ENGINEER FOR APPROVAL.
4. INSTALL NEW JOINT FOLLOWING ALL MANUFACTURER'S SPECIFICATIONS and PER SECTION 079300.
5. RECESS GLAND, PROPERLY SIZED GLAND SHALL NOT PROJECT ABOVE HEADER.

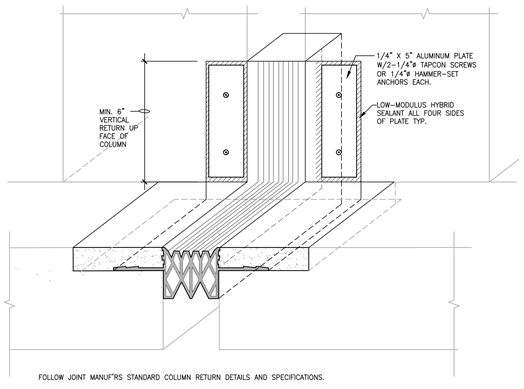
EXISTING POST-TENSIONING TENDONS/ANCHORS ARE SHOWN SCHEMATICALLY. EXACT LOCATION IS NOT KNOWN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS BY GPR.

SLAB EDGE / BLOCK-OUT REPAIR NOTES:

1. VERIFY DELAMINATED AREA BY VISUAL OBSERVATION AND SOUNDING.
2. CHIP AND REMOVE ALL LOOSE CONCRETE AT SPALLED AREA TO SOUND CONCRETE. REMOVE CONCRETE ALL AROUND CORRODED BARS TO MINIMUM 3/4" BEHIND BAR. TAKE PRECAUTIONS TO ENSURE EXISTING BARS DO NOT FALL THROUGHOUT TIME OF REPAIRS. DO NOT DAMAGE EXISTING REBAR OR P.T. TENDONS OR ANCHORAGES.
3. REMOVE ALL CORROSION FROM EXISTING REBAR AND REMAINING LOOSE CONCRETE BY SANDBLASTING.
4. COAT SANDBLASTED REBAR WITH SPECIFIED BAR COATING. COAT BARS COMPLETELY AROUND.
5. IF LOSS OF AREA OF EXISTING REBAR FROM CORROSION IS GREATER THAN 20%, REMOVE EXISTING BAR AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. IF ENTIRE BAR IS ABLE TO BE REMOVED WITHOUT EXTENDING REPAIR INTO SOUND CONCRETE, REMOVE EXISTING AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. SUPPLEMENT WITH ADDED BARS AS DIRECTED BY ENGINEER. SECURE ALL NEW AND EXISTING BARS IN PLACE WITH PLASTIC COATED TIES TO TAPCON ANCHORS AS NECESSARY. COAT CUT ENDS OF ALL NEW EPOXY-COATED BARS WITH SPECIFIED BAR COATING.
6. INSTALL TWO ROWS OF 1/4"ø TAPCON SCREWS @12"o.c. W/MIN. 2" EMBEDMENT DEPTH INTO SOUND CONCRETE TYP.
7. WET THE SURFACE TO ACHIEVE SATURATED-SURFACE-DRY CONDITION AT THE TIME OF NEW CONCRETE APPLICATION.
8. APPLY SPECIFIED CONCRETE REPAIR MATERIAL BY FORMING AND POURING.
9. REMOVE ALL FORMWORK.



5/S7-1 DETAIL-REMOVE AND REPLACE EXPANSION JOINT
SCALE: none

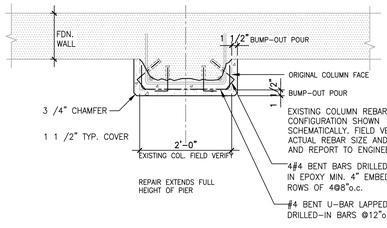


FOLLOW JOINT MANUF'RS STANDARD COLUMN RETURN DETAILS AND SPECIFICATIONS.

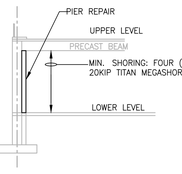
6/S7-1 DETAIL – EXPANSION JOINT TERMINATION AT COLUMNS
SCALE: none

4/S7-1 COLUMN REPAIR LIBRARY-DEPOT RAMP
SCALE: none

1. INSTALL SHORING.
2. VERIFY DELAMINATED AREA BY VISUAL OBSERVATION AND SOUNDING.
3. CHIP AND REMOVE ALL LOOSE CONCRETE AT SPALLED AREA TO SOUND CONCRETE. REMOVE CONCRETE ALL AROUND CORRODED BARS TO MINIMUM 3/4" BEHIND BAR. DO NOT DAMAGE EXISTING REBAR.
4. REMOVE ALL CORROSION FROM EXISTING REBAR AND EMBEDDED STEEL MEMBERS AND REMAINING LOOSE CONCRETE BY MEDIA-BLASTING.
5. REPORT CONDITION OF EXISTING REBAR TO ENGINEER.
6. COAT BLASTED REBAR AND EMBEDDED STEEL MEMBERS WITH SPECIFIED BAR COATING. COAT BARS COMPLETELY AROUND.
7. IF LOSS OF AREA OF EXISTING REBAR FROM CORROSION IS GREATER THAN 20%, IF DIRECTED BY ENGINEER REMOVE EXISTING BAR AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. IF ENTIRE BAR IS ABLE TO BE REMOVED WITHOUT EXTENDING REPAIR INTO SOUND CONCRETE, REMOVE EXISTING AND REPLACE WITH EQUAL SIZE EPOXY-COATED BAR. SUPPLEMENT WITH ADDED BARS AS DIRECTED BY ENGINEER. SECURE ALL NEW AND EXISTING BARS IN PLACE WITH PLASTIC COATED TIES TO TAPCON ANCHORS AS NECESSARY. COAT CUT ENDS OF ALL NEW EPOXY-COATED BARS WITH SPECIFIED BAR COATING.
8. INSTALL TWO ROWS OF 1/4"ø TAPCON SCREWS @12"o.c. W/MIN. 2" EMBEDMENT DEPTH INTO SOUND CONCRETE TYP.
9. WET THE SURFACE TO ACHIEVE SATURATED-SURFACE-DRY CONDITION AT THE TIME OF NEW CONCRETE APPLICATION.
10. APPLY SPECIFIED CONCRETE REPAIR MATERIAL BY: FORMING AND POURING ONLY. DO NOT USE SHOTCRETE or HAND PATCHES UNLESS SPECIFICALLY AUTHORIZED BY ENGINEER.
11. REMOVE ALL FORMWORK.



SCHEMATIC SHORING DIAGRAM



NOTES:

1. CONTRACTOR SHALL SUBMIT DRAWING OF ACTUAL SHORING LAYOUT PREPARED BY SHORING SUPPLIER TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SHORING INSTALLATION.
2. ALL TITAN MEGASHORE POSTS SHALL BE CONNECTED WITH 2" LEDGERS. TYPICAL LAYOUTS SHALL CONSIST OF 4-TITAN POSTS CONNECTED WITH 2" LEDGERS ON 4 SIDES TO CREATE 4-POST TOWERS.
3. POSTS SHALL HAVE MIN. 2-W6 BEAMS PER U-HEAD TOP AND BOTTOM TYP. UNLESS OTHERWISE NOTED.
4. PLACE SHORING AS CLOSE TO PIER AS POSSIBLE.
5. PIER REPAIRS SHALL PROCEED CONTINUOUSLY FROM SHORING INSTALLATION THROUGH FINAL COMPLETION.

7/S7-1 DETAIL – PIER REPAIR PALMER HOUSE RAMP
SCALE: none

CITY OF DULUTH MINNESOTA

City of Duluth

Parking Ramps
2024 Restoration

PALANISAMI & ASSOCIATES, INC
CONSULTING ENGINEERS
5661 International Parkway
Minneapolis, Minnesota 55428
763 533-9403/FAX 763 533-9586
eng@palanisami.com

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed professional ENGINEER under the laws of the state of MINNESOTA

Date: May 20, 2024 Reg. No. 26604

Signed Michael L. Deiss, P.E.

No.	Date	Revision Description
1	6-10-2024	ADDENDUM #1

Project PAI #24022
Date May 20, 2024
Drawn by MD
Checked by MD

Sheet Title:

SECTIONS and DETAILS

Sheet Number:

S7-1

PROJECT: 24-99472 2024 Parking Ramps Rehabilitation

DATE: May 29, 2024 at 10 AM

PRE-BID SIGN-IN SHEET

NAME	COMPANY	EMAIL
Zachery Asmussen	Cy-Con Inc.	zasmussen@cy.com.com
Logan Jorgensen	Restoration Systems Inc.	ljorgensen@restorationsystems.net
TJ Raden	RAM Construction	traden@ramservices.com
Brandon Peterson	Paragon Resotorations II Inc.	brandon.peterson@paragonrestoration2.com
Al Nelson	Advance Masonry Restoration	anelson@advancedmasonry.com
Mitch El-Wailli	BRC USA	mitch@brcusa.com
Mike Deiss	Palanisami & Associates	miked.engineer@palanisami.com
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Mark Bauer	City of Duluth	mbauer@duluthmn.gov