

## GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS (INCLUDING LATEST AMENDMENTS) AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION.
- WHERE DOCUMENTS AND STANDARDS ARE REFERENCED IN THE NOTES, THEY SHALL BE THE LATEST EDITION UNLESS OTHERWISE NOTED. DOWNLOADED DOCUMENTS SHALL BE USED AS REFERENCE.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED ON THE JOB BY THE CONTRACTOR. CONTRACTOR IS TO REPORT DISCREPANCIES TO THE ENGINEER PROMPTLY AND BEFORE CONSTRUCTION.
- RE-PORT DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND AND OTHER CONTRACT DOCUMENTS, WHERE APPLICABLE.
- BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS AGAINST THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (WHERE APPLICABLE) AND REPORT DISCREPANCIES TO THE CONSULTANT.
- ANY HORIZONTAL AND VERTICAL DESIGN LOADINGS NOTED SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- DRAWINGS ARE NOT TO BE SCALED.

## CONTRACTOR SAFETY:

- PERSONNEL, EQUIPMENT, AND BUILDING MATERIALS SHALL BE REMOVED FROM THE ISOLATED WORK ZONE PRIOR TO WATER REACHING THE MAXIMUM ALLOWABLE WATER LEVEL INDICATED.
- CONTRACTOR TO CONTINUOUSLY MONITOR PRECIPITATION AND ASSOCIATED CHANGES IN WATER LEVEL.

## ENVIRONMENTAL REQUIREMENTS:

- THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH ALL MUNICIPAL, TERRITORIAL, AND FEDERAL AUTHORITIES HAVING JURISDICTION OVER THE DURATION OF THE PROJECT.
- WHERE NOTIFICATION, EVALUATION, AND APPROVALS ARE REQUIRED FOR THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING THE REQUIRED INFORMATION AND PAYMENT OF ASSOCIATED FEES OR PERMITS.
- THE NOTIFICATION AND APPROVAL PROCESS SHALL INCLUDE, BUT IS NOT LIMITED TO, CONSTRUCTION OVER A WATERCOURSE (DEPARTMENT OF FISHERIES & OCEANS) DISPOSAL OF MATERIALS (CITY OF IQALUIT) AND ENVIRONMENTAL COMPLIANCE (MINISTRY OF ENVIRONMENT).

## SITE PROTECTION:

- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SAFETY BARRIERS/ HOARDING DURING THE CONSTRUCTION PHASE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SIGNAGE ON THE ROADWAY TO CLOSE THE ROAD TO VEHICLE TRAFFIC DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE FLAG PERSONS AT EACH END OF WORK AREA FOR DIRECTING TRAFFIC DURING CONSTRUCTION.
- ROAD TO NOWHERE BRIDGE IS CURRENTLY AND WILL REMAIN CLOSED UNTIL THE REPAIRS HAVE BEEN COMPLETED.
- ASTRO HILL BRIDGE IS TO REMAIN OPEN DURING REPAIRS. REPAIR WORK TO BE COMPLETED ONLY DURING NON-RUSH HOUR.

## CONSTRUCTION LOADS:

- CONSTRUCTION WORK SHALL NOT EXCEED 25psf DURING THE COURSE OF THE WORK.

## MATERIALS AND EXECUTION:

## CONCRETE

- CONCRETE MATERIALS, PROCEDURES, TOLERANCES AND WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUE OF CSA A23.1 AND A23.2. A COPY OF THIS STANDARD SHALL BE PROVIDED ON SITE.
- PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS USED IN THE PRODUCTION OF CONCRETE COMPLY WITH THE REQUIREMENTS OF CSA-A23.1.
- PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF SPECIFIED QUALITY AND STRENGTH.
- CEMENT SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD A3000.
- CONCRETE AGGREGATE SHALL CONFORM TO CSA STANDARD CAN3-A266.4, SHALL BE COMPATIBLE WITH EACH OTHER WHERE MORE THAN ONE IS USED, AND USED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- NO WATER IS TO BE ADDED TO THE CONCRETE ON THE SITE OR TO THE CONCRETE IN THE TRUCK UNDER ANY CIRCUMSTANCE.
- CONCRETE THAT HAS BEEN IN THE READY MIX TRUCK FOR LONGER THAN 1 1/2 HOURS SHALL BE REJECTED.
- MEASURES MUST BE TAKEN TO ENSURE PROPER CURING OF CONCRETE. REFER TO SECTION 21 OF CSA A23.1.
- COLD WEATHER CONCRETING, WHERE APPLICABLE, SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 21 OF CSA A23.1 AND ACI STANDARD 306 ("RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING").
- FLOWABLE CONCRETE (ABANDONMENT GROUT/NON SHRINK GROUT) SHALL BE CONTROLLED LOW-STRENGTH MATERIAL CONSISTING OF FLUID MIXTURE OF CEMENT, AGGREGATE, WATER AND WITH ADMIXTURES AS NECESSARY TO PROVIDE WORKABLE PROPERTIES WITH 28-DAY COMPRESSIVE STRENGTH, MINIMUM COMPRESSIVE STRENGTH OF 10MPA @ 28 DAYS.
- FLOWABLE CONCRETE (ABANDONMENT GROUT/NON SHRINK GROUT) SHALL BE PLACED INTO THE EXCAVATION AND FILL THE ENTIRE SPACE WITHOUT VIBRATION AND SEGREGATION. THE MATERIAL SHALL BE PLACED INTO THE EXCAVATION SO THAT IT FILLS THE ENTIRE SPACE WITHOUT VOIDS BEING CREATED BEHIND HORIZONTAL PROJECTIONS OR IN OTHER LOCATIONS WITHIN THE EXCAVATION.

## GRANULARS

- GRANULAR AGGREGATE SHALL CONSIST OF CRUSHED ROCK COMPOSED OF HARD, UNCOATED, FRACTURED FRAGMENTS, PRODUCED FROM ROCK FORMATIONS OR BOULDERS OF UNIFORM QUALITY, OR A MIXTURE OF CRUSHED GRAVEL, SAND AND FINES COMPOSED OF HARD, DURABLE, UNCOATED, FRACTURED FRAGMENTS, PRODUCED FROM ROCK FORMATIONS OR BOULDERS OF UNIFORM QUALITY, OR A MIXTURE OF CRUSHED GRAVEL, SAND AND FINES COMPOSED OF HARD, DURABLE, UNCOATED, FRACTURED FRAGMENTS, PRODUCED FROM IRON BLAST FURNACE OR NICKEL SLAG. PARTICLE SIZES NO LARGER THAN 25mm. STEEL SLAG SHALL NOT BE USED. RECLAIMED ASPHALT PAVEMENT CONTAINING STEEL SLAG AGGREGATES WILL NOT BE ACCEPTABLE.
- RIP-RAP SHALL BE PRODUCED FROM CRUSHED OR FRACTURED BEDROCK FRAGMENTS WITH 100% DIAFRAGM, FACES FREE FROM SPACES OR BOULDERS GREATER THAN 300mm DIAMETER, AND SHALL NOT DETERIORATE WHEN EXPOSED TO AIR AND WATER AND SHALL BE RESISTANT TO DETERIORATION BY CYCLES OF WETTING, DRYING, FREEZING, AND THAWING. RECLAIMED PORTLAND CEMENT CONCRETE MAY NOT BE USED. RIP-RAP SHALL CONFORM TO R10 GRADATION REQUIREMENTS, WITH 100% OF MASS PASSING THROUGH 180MM SCREEN.
- GRANULAR SHALL BE PLACED IN LIFTS NOT GREATER THAN 6".
- GRANULAR SHALL BE COMPAKTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

## GEOTEXTILE

- GEOTEXTILE SHALL BE NON-WOVEN, CLASS II.

## DRAWING LIST:

CVR - GENERAL NOTES AND DRAWING LIST  
 C1 - ROAD TO NOWHERE BRIDGE SITE PLAN  
 C2 - ROAD TO NOWHERE BRIDGE CONSTRUCTION AND STAGING DETAILS  
 C3 - ROAD TO NOWHERE BRIDGE ABUTMENT DETAILS  
 C4 - ASTRO HILL BRIDGE & APEX BRIDGE SITE PLAN  
 C5 - ASTRO HILL BRIDGE & APEX BRIDGE CONSTRUCTION DETAILS

## SCOPE OF WORK:

ROAD TO NOWHERE BRIDGE:  
 1. BRIDGE ABUTMENT REPAIRS INCLUDING INSTALLATION OF CORRUGATED STEEL PLATES AROUND EXISTING WOOD CRIBS AND GROUT FILL OF CRIBS.  
 2. RE-GRADING WITH GRANULAR FILL AND RIP-RAP INCLUDING A ROCK APRON

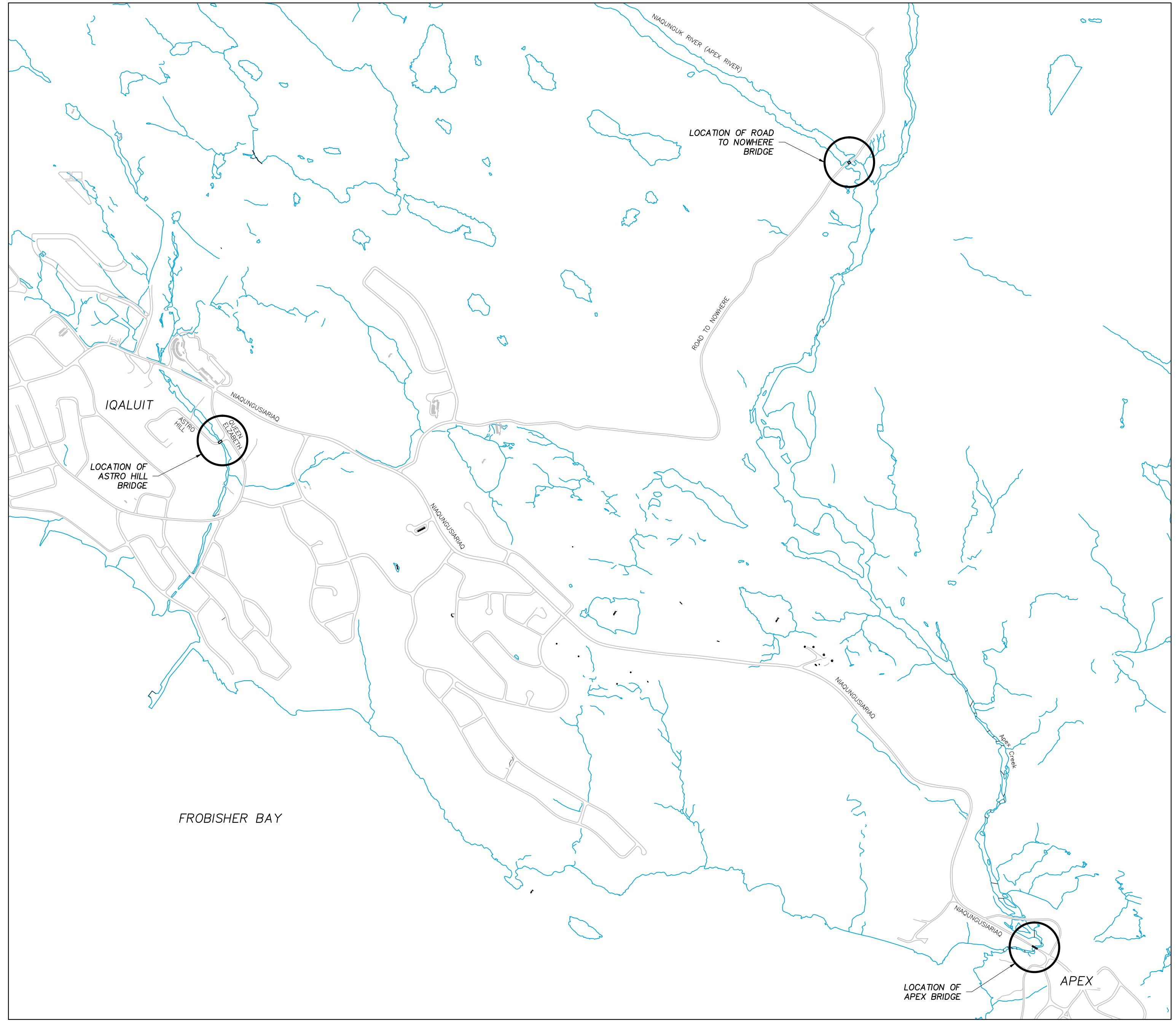
APEX BRIDGE:  
 1. REPLACEMENT OF WOOD CURB.  
 2. REPLACEMENT OF MISSING BOLTS.  
 3. LOCALIZED REPAIRS TO APPROACH BANKS AS INDICATED, CONSISTING OF FILLING AREAS OF WASHOUT AND INSTALLING ADDITIONAL RIP-RAP PROTECTION.

ASTRO HILL BRIDGE:  
 1. LOCALIZED REPAIRS TO APPROACH BANKS AS INDICATED, CONSISTING OF FILLING AREAS OF WASHOUT AND INSTALLING ADDITIONAL RIP-RAP PROTECTION.

## KEY PLAN:

NO.	REVISION	DATE
1	ISSUED FOR CLIENT REVIEW	DEC 15, 2017
2	ISSUED FOR 80% CLIENT REVIEW	JAN 24, 2018
3	ISSUED FOR FINAL REVIEW	FEB 28, 2018
4	ISSUED FOR TENDER	MAR 28, 2018
5	FOR ENVIRONMENTAL APPROVAL	SEPT 20, 2018
6		
7		

NOTES:
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LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.
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KEY PLAN:



**CONCENTRIC**  
 CLIENT-CENTRIC. CHALLENGE DRIVEN.

LONDON	OTTAWA
Toll Free 1-866-919-4531	Toll Free 1-866-919-4530
IQALUIT	SASKATOON
Toll Free 1-866-919-4531	Toll Free 1-866-919-8899
WINNIPEG	TORONTO
Toll Free 1-866-919-4531	Tel. 1-647-351-0095
COQUITLAM	
Toll Free 1-866-919-4531	

CLIENT NAME: CITY OF IQALUIT

PROJECT ADDRESS: IQALUIT, NUNAVUT

PROJECT NAME: BRIDGE REPAIRS

DRAWING TITLE: GENERAL NOTES, DRAWING LIST & LOCATION PLAN

DESIGN: TJP	SCALE: NTS
DRAWN: JAVA	DATE: DEC/2017
APP'D: STP	FILE NO: 17-7519

SHEET NO. C0

NO.	REVISION	DATE
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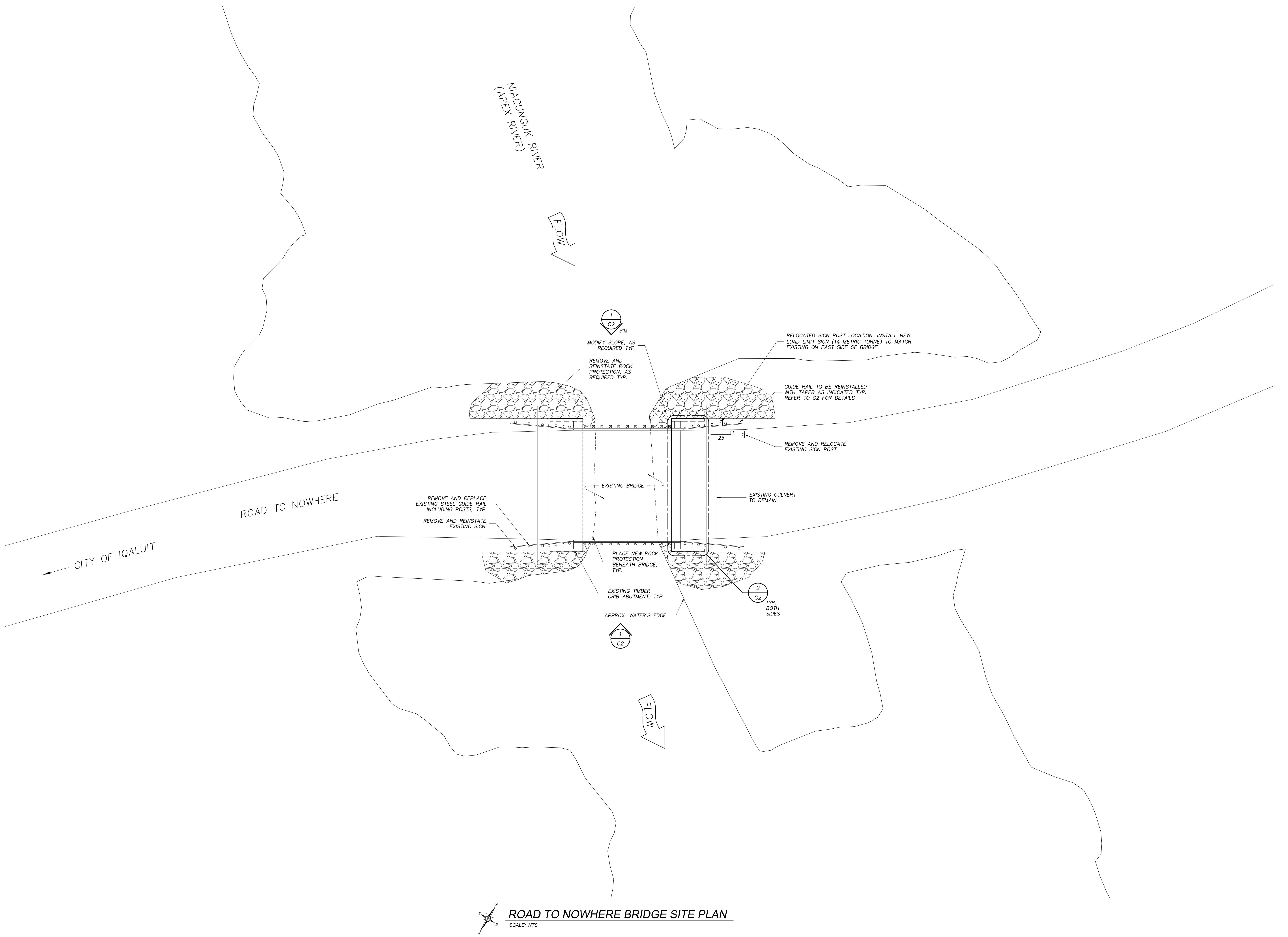
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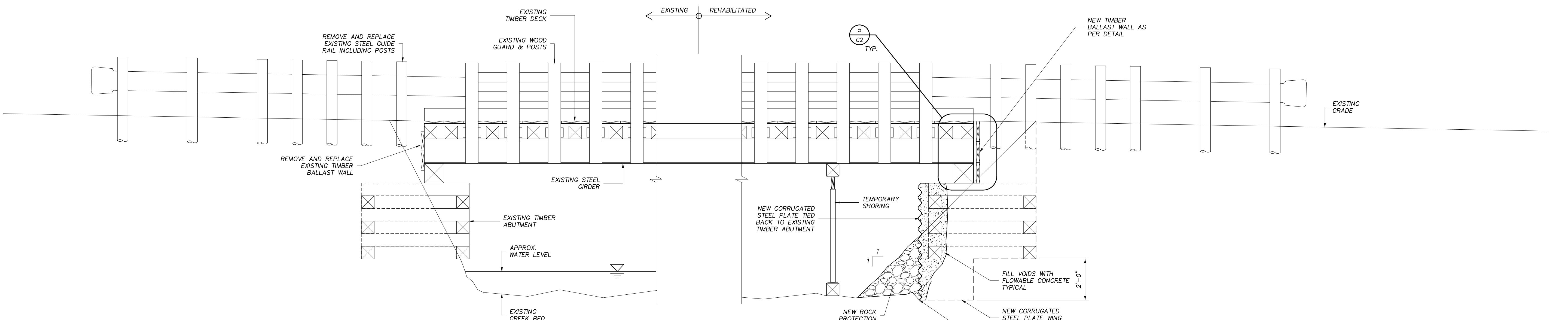
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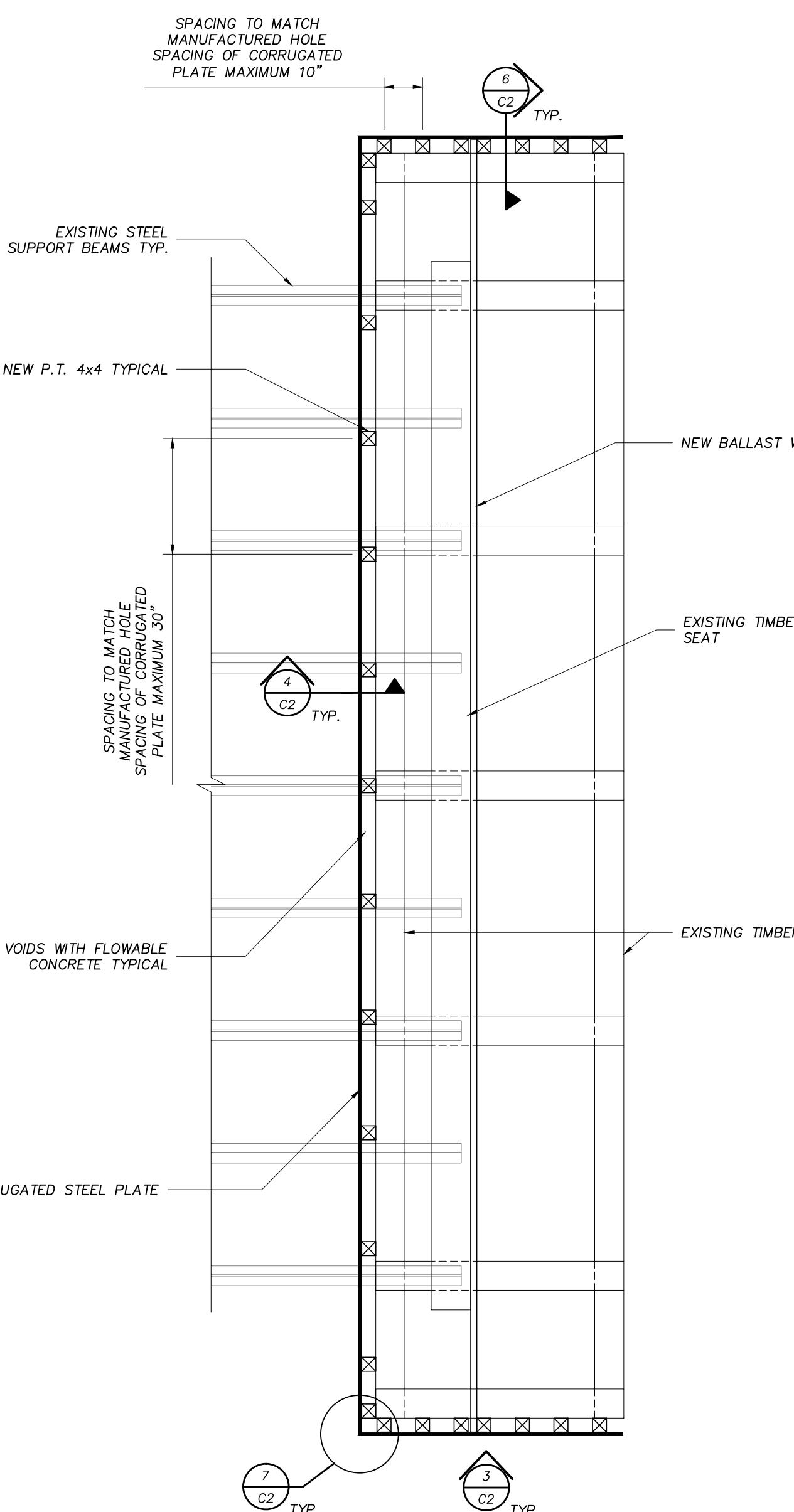
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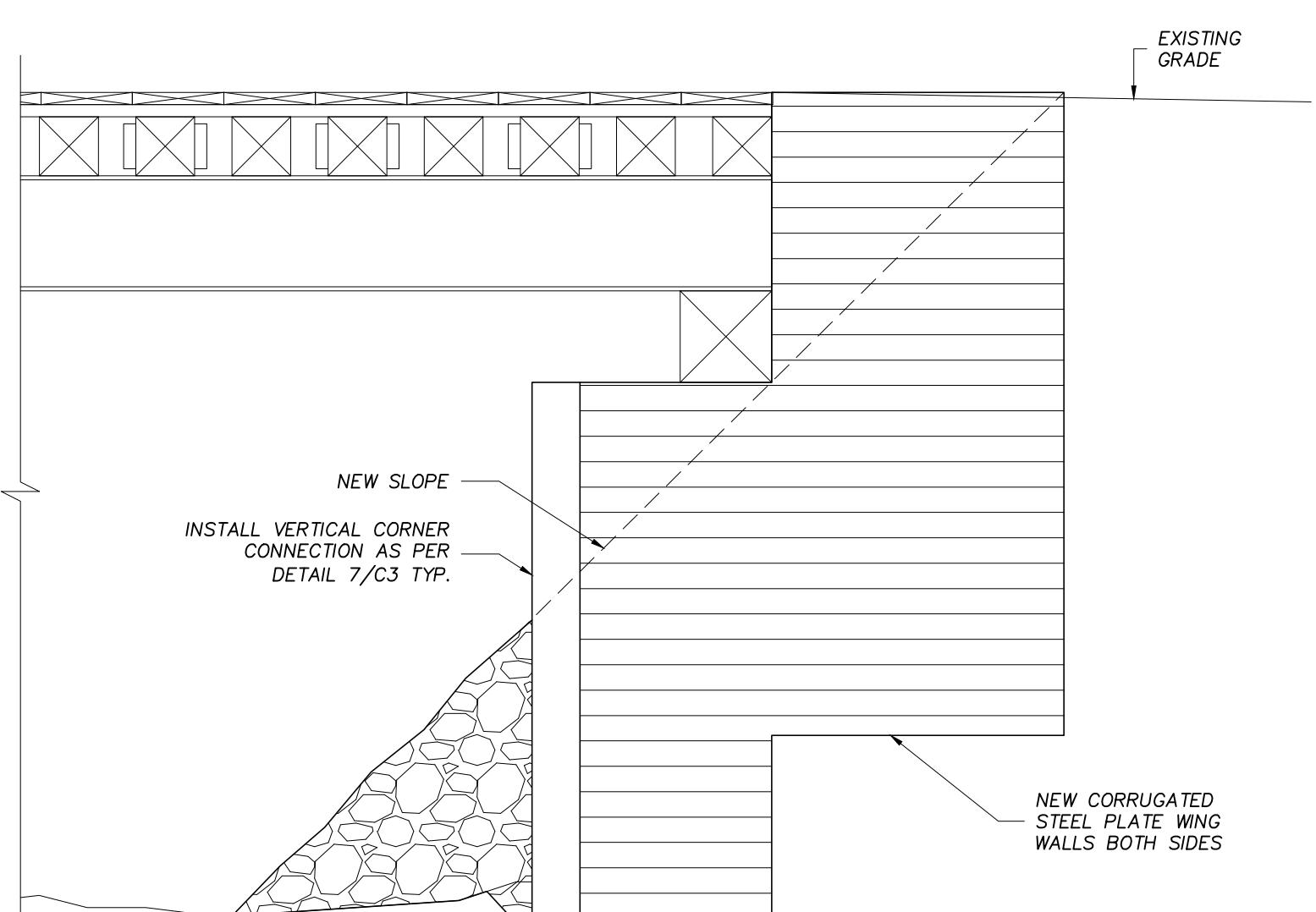


1 BRIDGE ELEVATION  
C2 SCALE: NTS



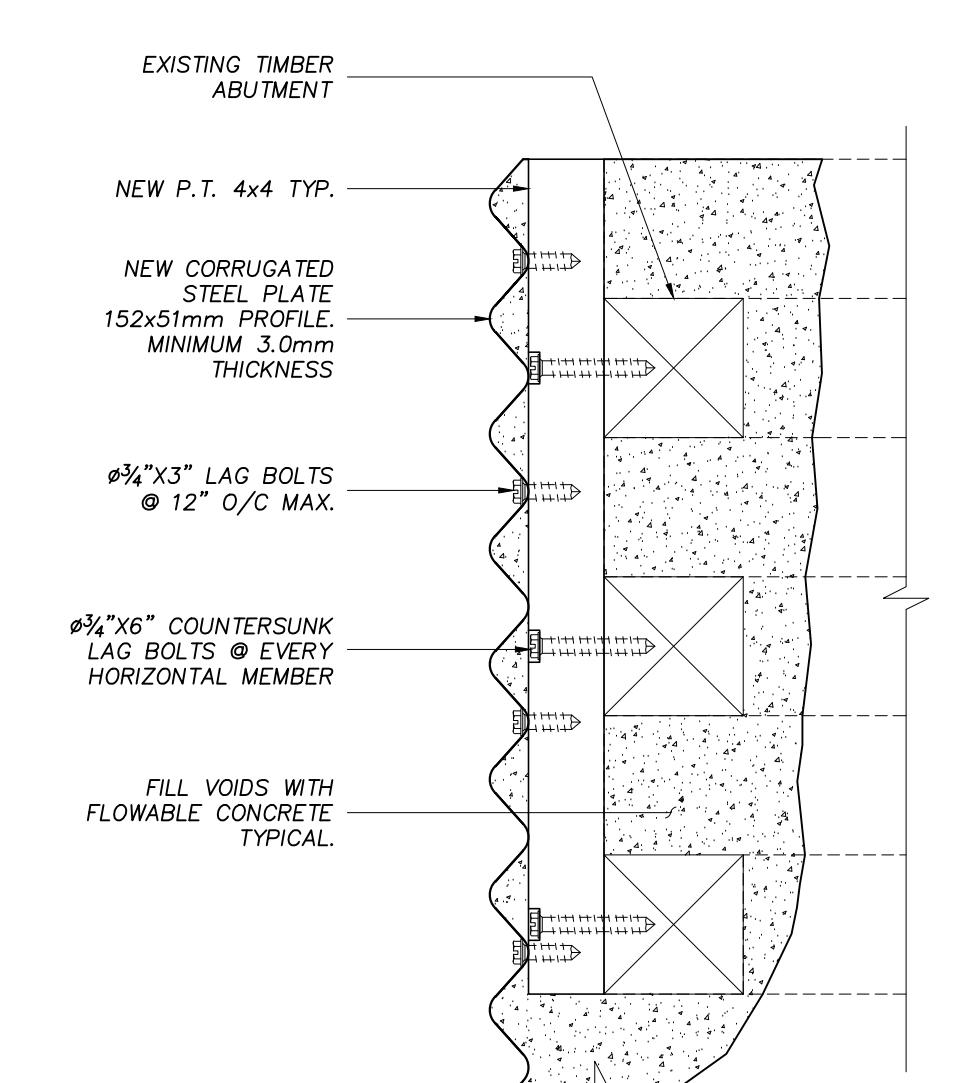
2 ABUTMENT PLAN  
C2 SCALE: NTS

NOTE: DETAIL APPLIES TO BOTH SIDES OF BRIDGE



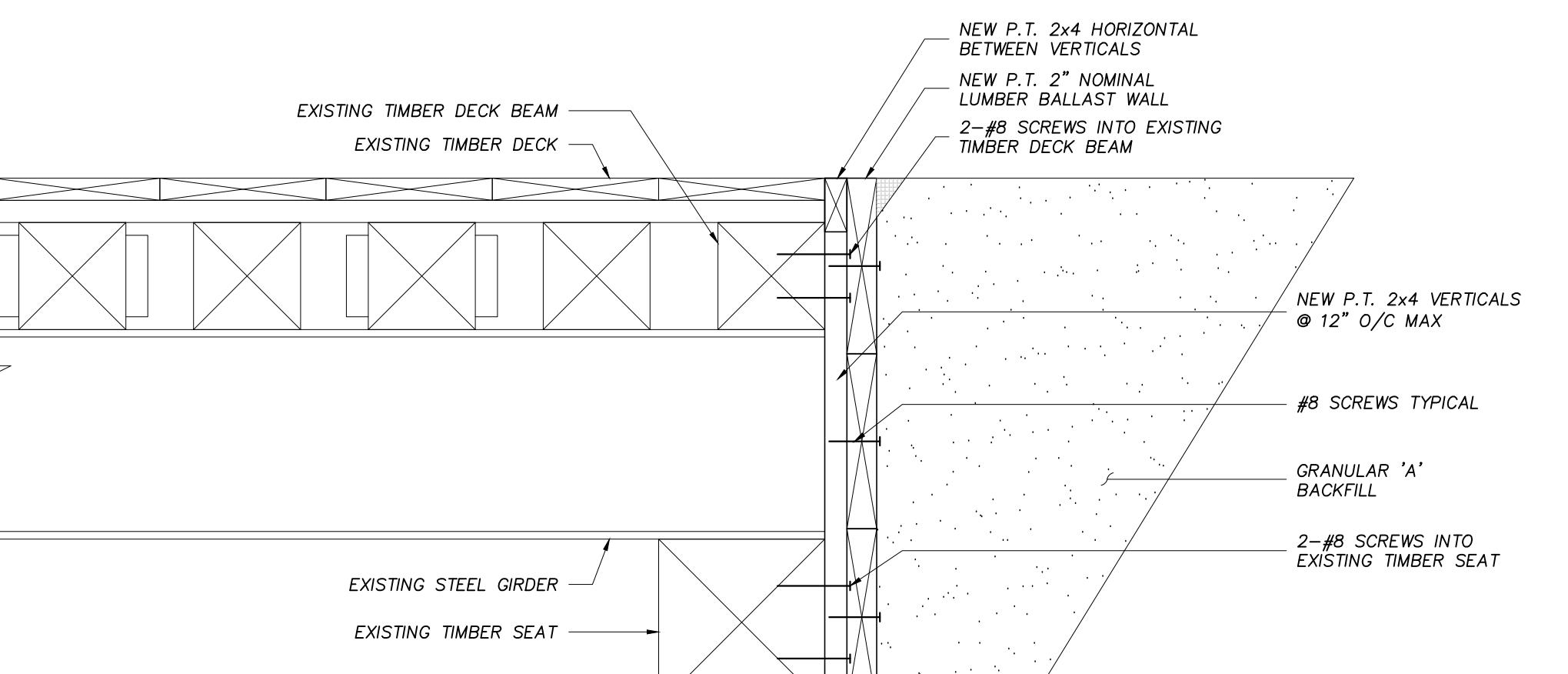
3 WING WALL ELEVATION  
C2 SCALE: NTS

NOTE: DETAIL APPLIES TO BOTH SIDES OF BRIDGE



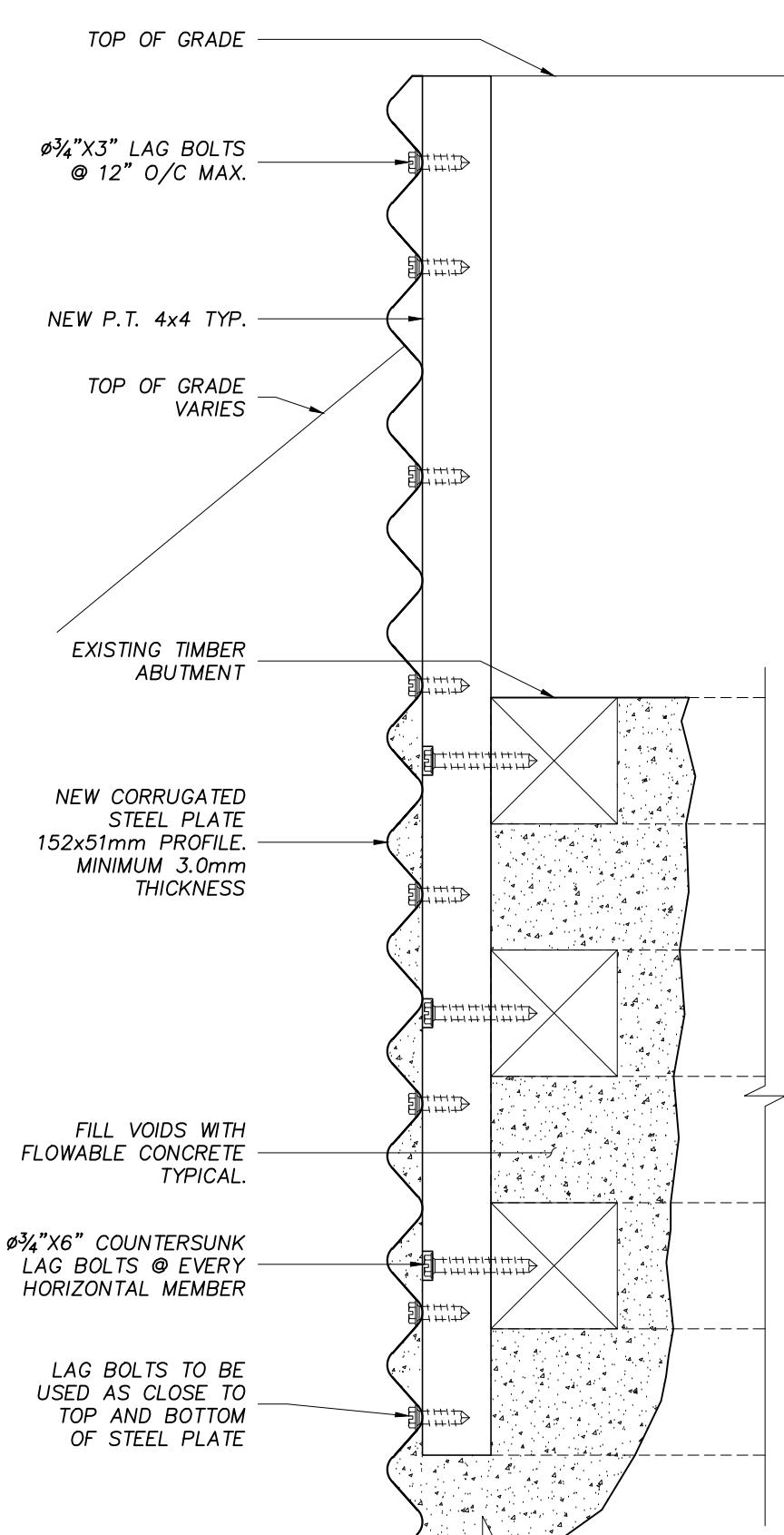
4 DETAIL  
C2 SCALE: NTS

NOTE: DETAIL APPLIES TO BOTH SIDES OF BRIDGE



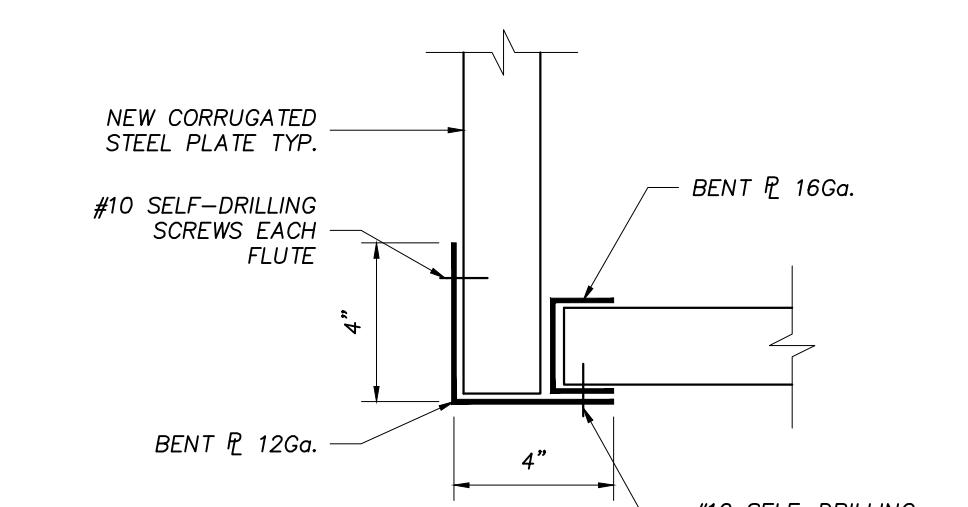
5 DETAIL  
C2 SCALE: NTS

NOTE: DETAIL APPLIES TO BOTH SIDES OF BRIDGE



6 DETAIL  
C2 SCALE: NTS

NOTE: DETAIL APPLIES TO BOTH SIDES OF BRIDGE



7 DETAIL  
C2 SCALE: NTS

**CONCENTRIC**  
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DRAWING TITLE:

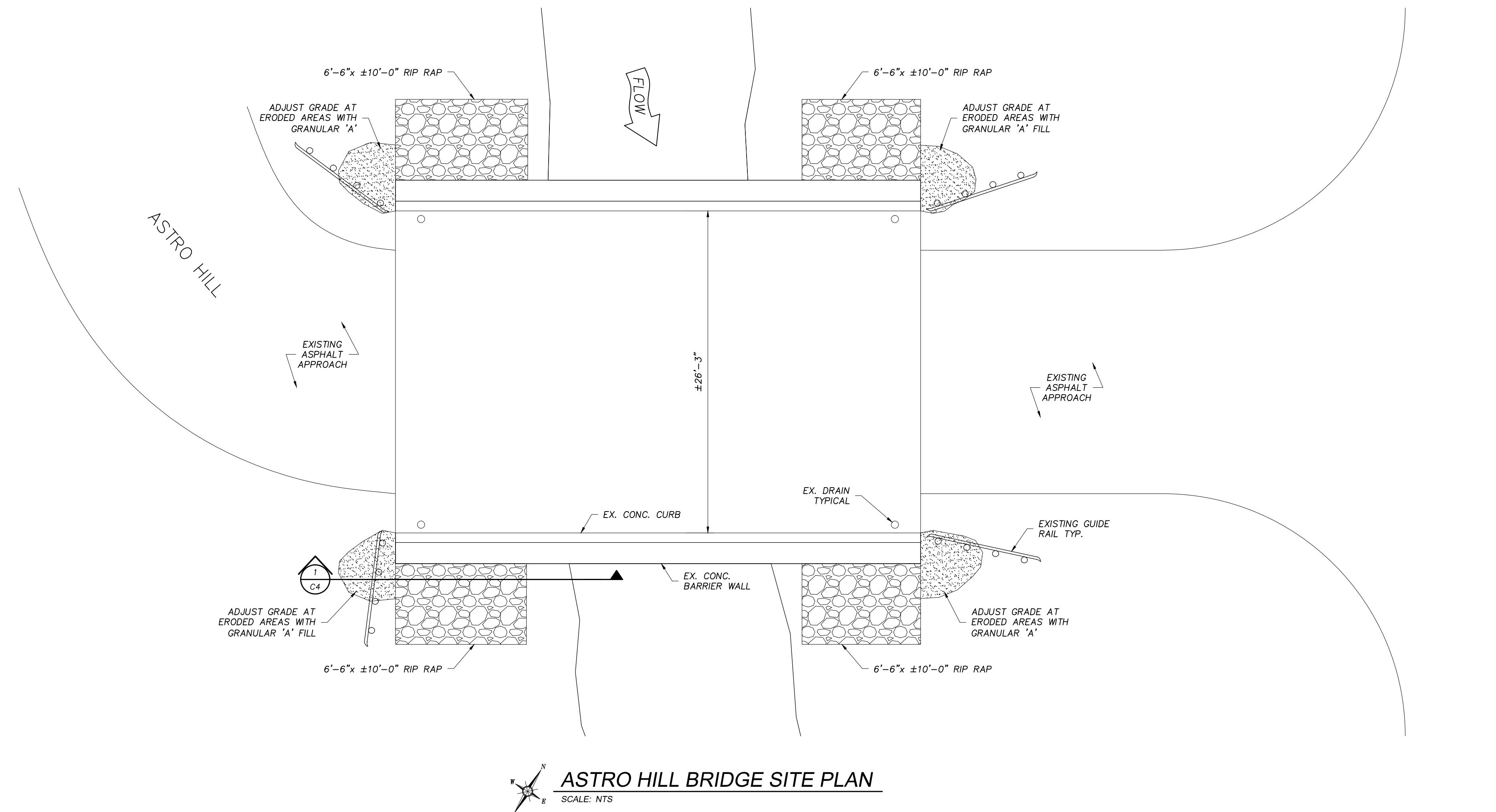
ROAD TO NOWHERE BRIDGE ABUTMENT DETAILS

DESIGN: TJP DRAWN: JAVA APP'D: STP SCALE: NTS DATE: DEC/2017 FILE NO: 17-7519

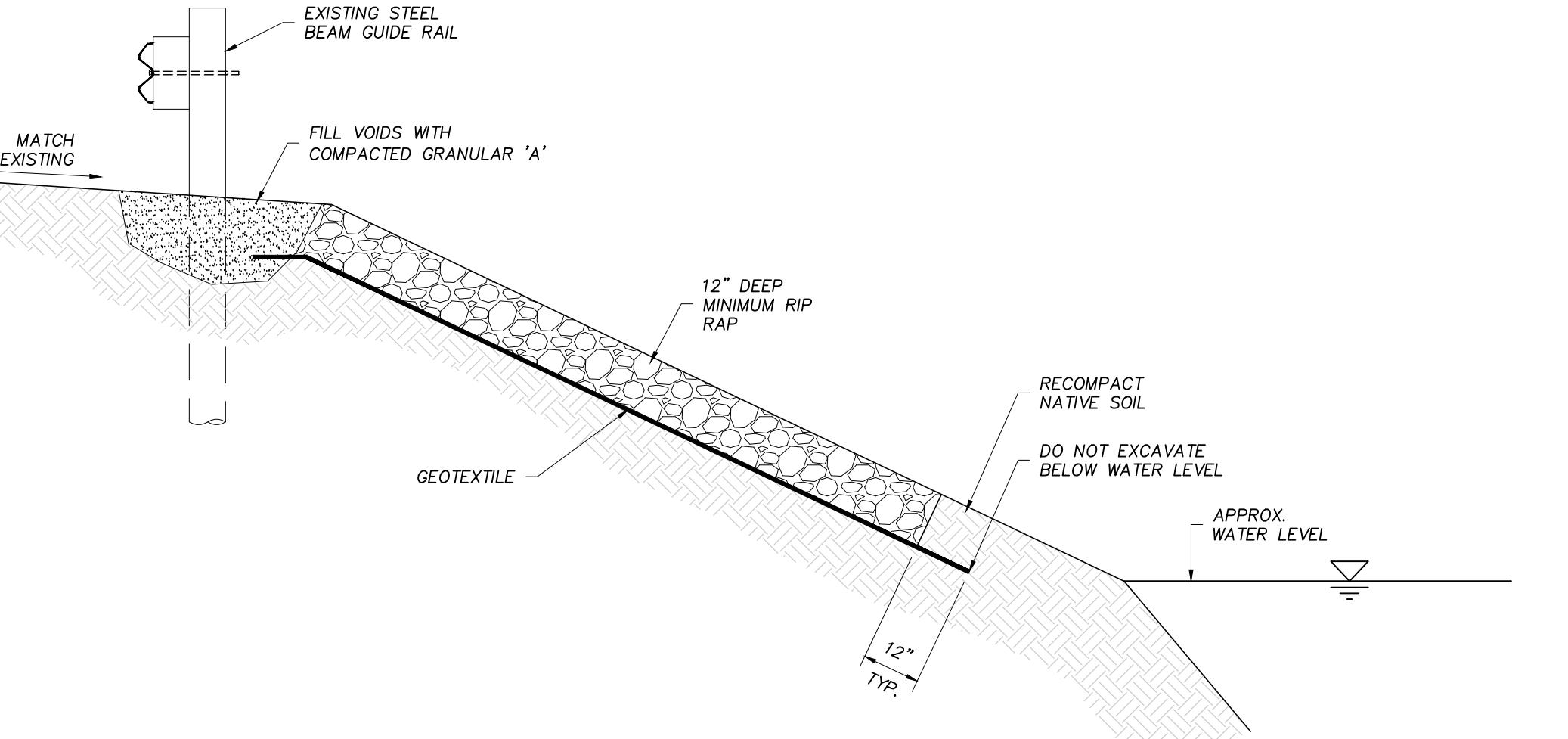
SHEET NO.

C2





ASTRO HILL BRIDGE SITE PLAN  
SCALE: NTS



1  
C4  
DETAIL  
SCALE: NTS

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WINNIPEG      TORONTO  
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CITY OF IQALUIT

PROJECT ADDRESS:  
IQALUIT, NUNAVUT

PROJECT NAME:  
BRIDGE REPAIRS

DRAWING TITLE:  
ASTRO HILL BRIDGE SITE PLAN & DETAIL

DESIGN:	TJP	SCALE:	NTS
DRAWN:	JAVA	DATE:	DEC/2017
APP'D:	STP	FILE NO.:	17-7519

SHEET NO.

C4

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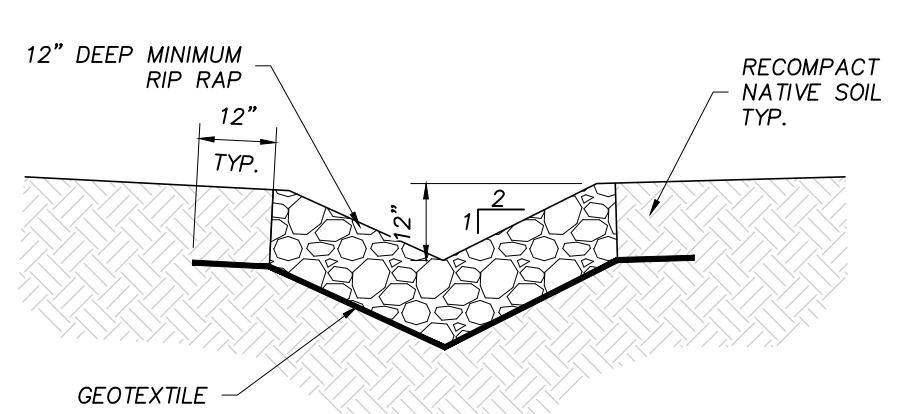
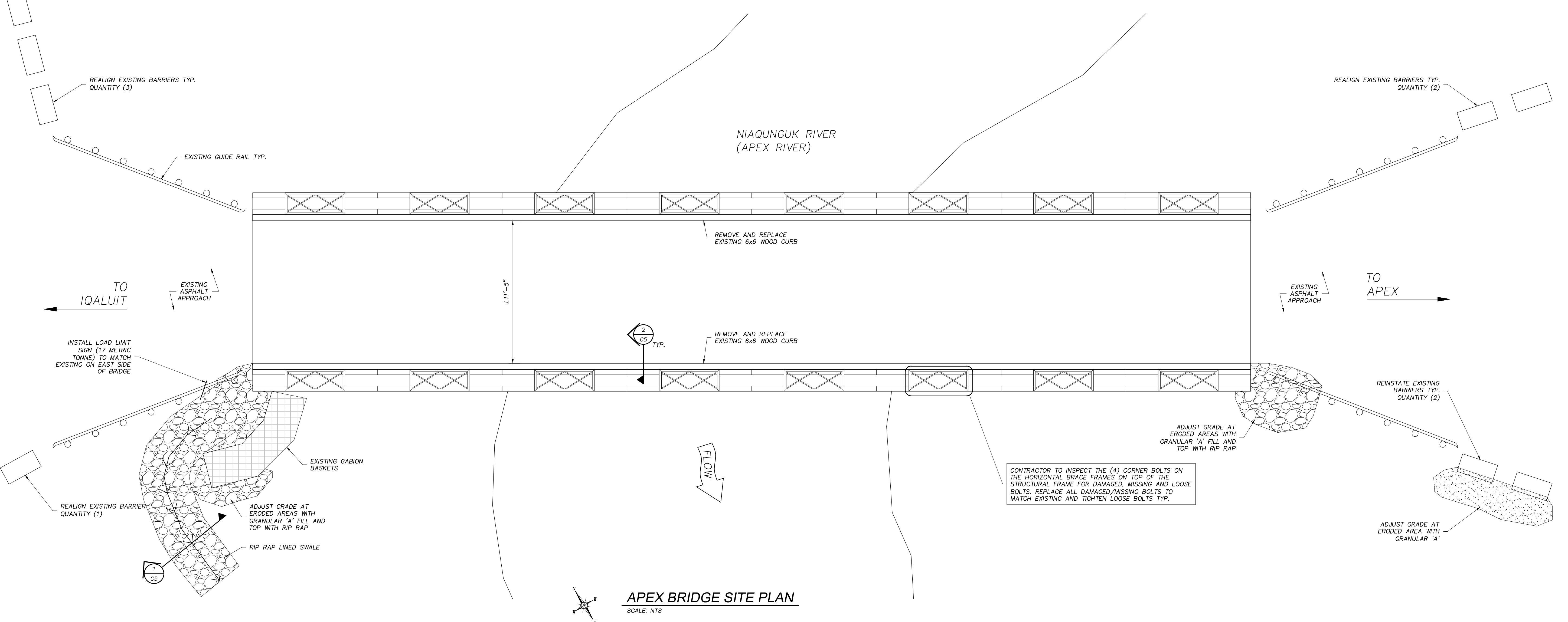
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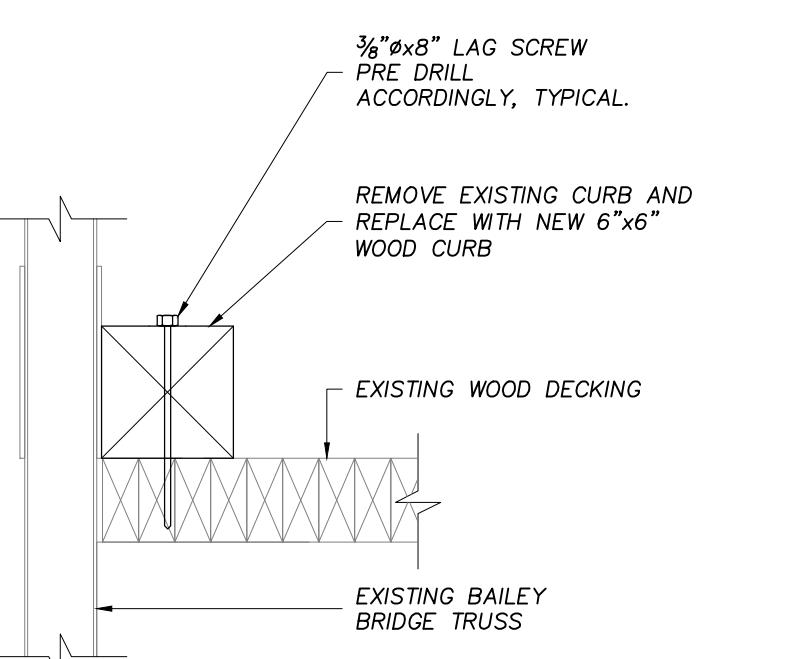
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KEY PLAN:



1  
C5  
DETAIL  
SCALE: NTS



2  
C5  
CURB REPLACEMENT DETAIL  
SCALE: NTS

NOTE: DETAIL APPLIES TO BOTH SIDES OF BRIDGE



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APEX BRIDGE SITE PLANS &  
DETAILS

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C5