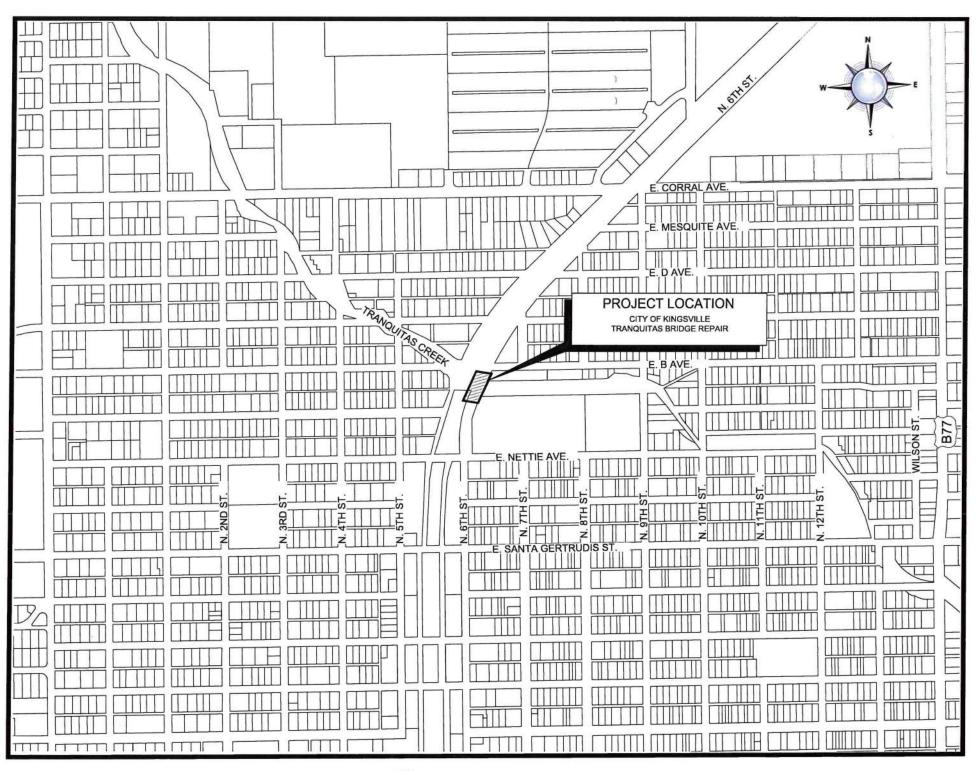
CITY OF KINGSVILLE TRANQUITAS BRIDGE REPAIR

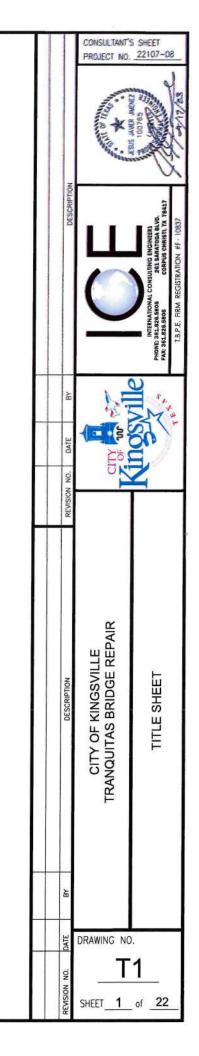
KINGSVILLE, KLEBERG COUNTY, TEXAS





CITY OF KINGSVILLE

MAYOR	SAM FUGATE
MAYOR PRO TEM	HECTOR HINOJOSA
CITY COMMISSIONER	EDNA LOPEZ
CITY COMMISSIONER	NORMA NELDA ALVAREZ
CITY COMMISSIONER	ANN MARIE TORRES
CITY MANAGER	MARK MCLAUGHLIN
CITY ENGINEER	RUTILLIO "RUDY" MORA JR P.F. CEM



LOCATION MAP

TI TI SCALE: 1"=600"

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SHEET 2 of 22

1. GENERAL NOTES

- THE FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON
- THE FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON EACH SHEET.

 EXISTING STRUCTURES, UTILITIES AND PIPING ARE SHOWN FROM AVAILABLE RECORDS AT THE TIME THIS PLAN WAS PREPARED. THE CONTRACTOR SHALL

 BE RESPONSIBLE TO DETERMINE AND VERIFY THE LOCATION OF ALL EXISTING STRUCTURES, UTILITIES AND PIPING WITHIN THE CONSTRUCTION AREA PRIOR

 TO THE GEGINNING OF CONSTRUCTION, ANY DAMAGE TO THE EXISTING STRUCTURES, UTILITIES AND PIPING SHALL BE RESTORED AT NO ADDITIONAL COST

 TO THE OWNER, NOTIFY FORDIRECROWING IMMEDIATELY OF ANY CONFLICT.

 ALL DETAILS ARE TYPICAL, INCORPORATED INTO PROJECT AT APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT.

 PROVIDE TEMPORARY SUPPORT DURING CONSTRUCTION AS REQUIRED, UNTIL STRUCTURAL ELEMENTS ARE PERMANENTLY ATTACHED. DRAWINGS

 NOICATE STRUCTURE IN FINAL FORM CAPABLE OF SUPPORTING DESIGN LOADS.

 DO NOT SCALE DRAWINGS.

 THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOS SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS

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DO NOT SCALE DRAWINGS.

THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNITY AND HOLD THE ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT FOR LIABILITY ARISING FROM THE SOLE

NEGLIGENCE OF THE ENGINEER.
ALL CONSTRUCTION TO BE COORDINATED WITH CITY OF KINGSVILLE.
CONTRACTOR SHALL OBTAIN ALL REGULATORY PERMITS AND COST TO BE INCIDENTAL TO BID ITEMS.
ANY FINES AND/OR PENALTIES FOR FAILURE TO MAINTAIN AND/OR IMPLEMENT EROSION AND SEDIMENT CONTROL SHALL BE THE RESPONSIBILITY OF

9. ANY FINES ANDIOR PENALTIES FOR FAILURE TO MAINTAIN ANDIOR IMPLEMENT ENDS FUNDED SEUMENT CONTRACTOR.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAINING HIS EMPLOYEES AND SUBCONTRACTORS IN THE RECOGNITION AND AVOIDANCE OF UNSAFE CONDITIONS, AND IN THE REGULATIONS AND HAZARDS WHICH APPLY TO THE AREA IN WHICH THE WORK WILL TAKE PLACE.

11. ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECIFIED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROTECTION OF PERSONS AND PROPERTY, AND FOR PROVIDING SAFE WORKING CONDITIONS THROUGHOUT THE WORK PROGRESS. ALL AREAS ADJACENT TO THE CONSTRUCTION AREA OR AFFECTED BY THE CONSTRUCTION MUST BE PROTECTED FROM DIAMAGE, CLEANED, AND RESTORED TO THE ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE CITY OF KINGSVILL BY WITH CITY OF KINGSVILLE PUBLIC WORKS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PIELD VERRIFICATION OF EXISTING CONDITIONS, AND SHALL PERFORM FIELD MEASUREMENTS PRIOR TO PARTICATION AND/OR PURCHASE OF ANY MATERIAL AND SHALL DESCRIPTING CONDITIONS BE DIFFERENT FROM THE DESIGN DRAWINGS FOR THIS PROJECT. CONFLICTS ARISING DUE TO LACK OF COORDINATION SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF

CONTRACTOR.

ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES ANDIOR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE CONTRACTOR SHALL DISPOSE OF ALL MATERNALS REMOVED WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT. DISPOSAL OF MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PRINTING ASSOCIATED WITH THE PROJECT INCLUDES BUT ARE NOT LIMITED TO THE TEXAS COMMISSION ON BEWIRDONNENTAL QUALITY (TEXE) USING THE THE PROJECT WITH THE PROJECT INCLUDES SUT ARE NOT LIMITED TO THE TEXAS COMMISSION ON BEWIRDONNENTAL QUALITY (TEXE) UNDER THE TEPES CONSTRUCTION ACTIVITIES UNDER THE TEPES CONSTRUCTION ACTIVITIES UNDER THE TEPES CONSTRUCTION ACTIVITIES OF THE CONSTRUCTION ACTIVITIES OF THE CONSTRUCTION ACTIVITIES OF THE PROJECT OF THE WORK THE CONTRACTOR SHALL MARK ALL AS-BUILT CONDITIONS ON A DAILY BASIS ON THE PLAN AND SUBMIT TO THE ENGINEER AT END OF PROJECT, AS-BUILT PLANS SHALL BE AVAILABLE ON STEEL THE STATE OF THE PROJECT OF THE PROJECT ON THE PROJECT OF THE WORK THE CONTRACTOR SHALL WIST THE PROJECT OF THE PROJECT OF THE PROJECT OF THE WORK THE CONTRACTOR SHALL BACKFILL ALL VIOLS LEFT BY DEMOLITION AND THE PROJECT OF THE FULLY WARRE OF THE INTERT OF THE WORK THE CONTRACTOR SHALL BACKFILL ALL VIOLS LEFT BY DEMOLITION AND THE PROJECT OF THE STRUCE OF THE STRUCE OF THE PROJECT OF THE CONTRACTOR SHALL BACKFILL ALL VIOLS LEFT BY DEMOLITION AND THE PROJECT OF THE STRUCE OF THE STRUCE OF THE PROJECT OF THE CONTRACTOR SHALL BACKFILL ALL VIOLS LEFT BY DEMOLITION AND THE PROJECT OF THE STRUCES SOIL IN A MANNER SUITABLE TO FINAL IMPROVEMENTS.

20. ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE

SPECIFICATIONS.

2. UNDERGROUND UTLITY LINES SHOWN ON THE PLANS CONSTITUTE AN ATTEMPT BY THE ENGINEER TO LOCATE THESE LINES FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND UTLITY LINES AND MAKE PROVISIONS FOR THEIR PROTECTION. IN THE EVENT OF DAMAGE TO UNDERGROUND UTLITIES, WHETHER SHOWN OR NOT ON THE DRAWNINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY OPERATING THE FACILITY. DAMAGE BY THE CONTRACTOR TO EXISTING UTLITIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OF THE UTLITY AND THE ENDINEER THE COST OF DAMAGE AND/OR REPAIR TO SAID UTLITES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OF THE UTLITY AND THE ENDINEER THE COST OF DAMAGE AND/OR REPAIR TO SAID UTLITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO PAYMENT WILL BE MADE FOR DELAYS DUE TO THE UTLITY AND THE PROTECTION.

TO UTILITY COMPLICTS.

25. PRIOR TO THE COMMENCEMENT OF ANY WORK AT PROJECT SITE, CONTRACTOR SHALL VERIFY WITH CITY OF KINGSVILLE. THAT PROPOSED CONSTRUCTION METHODS WILL NOT INTERFERE OR IMPEDE DAILY ACTIVITY OF ANY FOR THE CITY OF KINGSVILLE ACTIVITIES LOCATED IN THIS SITE.

2. SITE EXCAVATION AND GRADING

- COMPLETELY REMOVE ALL TREES, SHRUBS, AND STUMPS FROM THE CONSTRUCTION AREA. REMOVE ALL CONCRETE SLABS, CONCRETE WALLS,
 FOUNDATIONS, ROADWAYS, ETC., ON THE SITE AS REQUIRED TO PROPERLY CONSTRUCT THE PROJECT.
 ALL EXCAVATION IS TO BE UNCLASSIFIED; 1E., THE REMOVAL OF ALL MATERIALS AS ENCOUNTERED, WITH NO ADDITIONAL PAYMENTS FOR ROCK
 EXCAVATION EXCEPT FOR CHANGES IN WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS.
 PERFORM EXCAVATION OF EVERY TYPE OF MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT, TO THE LINES, GRADES AND ELEVATIONS
 NDICATED AND AS SPECIFIED HEREIN. PERFORM EXCAVATION AND PLICING IN A MANNER AND SEQUENCE THAT WILL PROVIDE DRAININGS AT ALL

- TIMES.

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 CONSTRUCT FILLS AT THE LOCATION AND TO THE LINES AND GRADES AS INDICATED. THE COMPLETE FILL SHALL CONFORM TO THE SHAPE OF THE TYPICAL SECTIONS INDICATED OR SHALL MEET THE REQUIREMENTS OF THE PARTICULAR CASE ALL FILL EXCEPT FILL UNDER THE BUILDING AREA, SHALL BE SOLIFIELD SES ASTISFACTORY ON-SITE SOLIS REMOVED FROM THE EXCAVATION TO FORM THE FILL MATERIAL REQUIRED FOR FILLS IN EXCESS OF THAT PRODUCED BY EXCAVATING WITHIN THE GRADING LIMITS SHALL BE TAKEN FROM APPROVED OFF-SITE AREAS SELECTED BY THE CONTRACTOR PLACE THE MATERIAL IS SUCCESSIVE HORIZONTAL LYERS IF IN LOOSE DEPTH AND COMPACT TO A MINIMUM OF 95% OF STANDARD PROCTOR IN ACCORDANCE WITH ASTM DOBS AT MOISTURE CONTENTS -1% TO -3% OF OPTIMUM.

 CONTRACTOR TO VERIFY QUANTITIES SHOWN DURING BID PROCESS TO INSURE THEY ARE SUFFICIENT TO COMPLETE THE PROJECT AS INTENDED AND TO THE LINES AND GRADES SHOWN, AND HE SHALL MAKE ANY ADJUSTMENTS HE DEEMS NECESSARY TO INSURE HE HAS ACCOUNTED FOR SHRIMS, SWELL, LOSS, ETC. THE QUANTITIES SHOWN ARE INTENDED ON ONLY TO ASSIST THE THE CONTRACTOR IN PREPARRING HIS LUMP SUM PROPOSAL. CONTRACTOR IN SRESPONSIBLE TO COMPLETE THE PROJECT ACCORDING TO THE PLANS AT THE PRICE HE HAS SPECIFIED IN HIS PROPOSAL.

3. TRAFFIC CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN AND MAINTAIN THE TRAFFIC CONTROL
THROUGHOUT THE DURATION OF THE CONTRACT IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
AND THE TROOT STANDARD SHEETS. CONTRACTOR SHALL COORDINATE WITH CITY OF KINGSVILLE AND ANY LOCAL EMERGENCY

THROUGHOUT THE DURATION OF THE CONTRACT IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
AND THE TXD OT STANDARDS SHEETS, CONTRACTOR SHALL CORDINATE WITH CITY OF KINDSYLLEL AND ANY LOCAL MERGENCY
RESPONSE AGENCIES FOR ROAD CLOSUMES. SEE SPECIAL NOTE.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND IN
ACCORDANCE WITH THE TRAFFIC CONTROL DEVICE STANDARD DETALS.

CONTROL OF THE TRAFFIC CONTROL DEVICE STANDARD DETALS.

AS REQUIRED BY THE AMOUNTAL OF THE CONTROL OF THE CONTROL OF THE CONSTRUCTION PERIOD.

AS REQUIRED BY THE AMOUNTAL ON INFORM TRAFFIC TO THOSE ON MANUAL.

EQUIPMENT AND MATERIALS SHALL NOT BE STORED ON PUBLIC RICHT-OF-WAY AT ANY TIME DURING THE COURSE OF THE CONSTRUCTION
PERIOD. ANY MATERIAL AND EQUIPMENT APPROVED BY THE ENGINEER FOR THE TEMPORARY PLACEMENT ALONG THE PUBLIC
RIGHT-OF-WAY SHALL BE ADEQUATELY BRAFFICADED WITH TYPE II BARRICADES FOR EACH DIRECTION OF TRAVEL AND SHALL NOT BE
PLACED WITHIN FIVE (S) FEET OF THE STREET PAVEMENT.

THE CONTRACTOR SHALL MAINTAIN ALL REGULATORY SIGNS DURING THE CONSTRUCTION MOUNTED.

ALL CONSTRUCTION WARKINGS SIGNS MAY 9E MOUNTED ON PORTABLE DEVICES AND/OR GROUND MOUNTED.

HOUSING AND BARRICADES USED FOR LANE CLOSURES AND/OR PROTECTION SHALL REPORT SUCH INFORMATION
IMMEDIATELY TO THE ATTENTION OF THE CITY OF KINGSYLLE PUBLIC WORKS.

ALL SIGNS AND BARRICADES USED FOR LANE CLOSURES AND/OR PROTECTION SHALL BE EQUIPPED WITH FLASHING WARNING LIGHTS IF
SUCH SIGNS AND BARRICADES AND OTHER APPROPRIATE TRAFFIC CONTROL DEVICES MAY BE REQUIRED ACCORDING TO THE ENGINEER
AND/OR THE DEPARTMENT OF THE CITY OF KINGSYLLE.

SAFETY BARRICADE FERCING SHALL BE HIGH DENSITY POLYETHYLENE TENSAR-UX/4050 (SB-ORANGE-4+HIGH).

4. EPOXY ADHESIVE

EPOXY SYSTEM (CONCRETE ADHESIVE ANCHORING SYSTEM) SHALL BE "HILTI HIT-RE 500-V3" AS MANUFACTURED BY HILTI CORP., TULSA,
OK OR APPROVED EQUIAL AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ALL HOLES SHALL BE CORD ERILLED IN DRY
CONCRETE. 18" CREATER THAN ANCHOR DIAMETER, ROUGHEN WHICH DONE, PER MANUFACTURER'S RECOMMENDATIONS.

5. CONCRETE REHABILITATION

- REMOVE ALL UNSOUND CONCRETE BY CHIPPING TO SOUND CONCRETE. JACK HAMMERS AND CHIPPING HAMMERS SHALL BE SIZED SO AS NOT TO DAMAGE THE EXISTING SOUND CONCRETE THAT IS TO REMAIN.

 MECHANICALLY CLEAN EXISTING SUFFACES THAT DO NOT REQUIRE CHIPPING TO REMOVE PAINT, OIL, MARINE GROWTH, ETC. AND TO PROVIDE A

- ROUGHENED SURFACE FOR PROPER BONDING OF THE REPAIR OR SEALER.

 MECHANICALLY CLEAN EXISTING REBAR TO REMOVE RUST, OIL, SCALE, ETC.

 REMOVE ALL LOOSE PARTICLES WITH WATER ANDIOR COMPRESSED AIR.

 APPLY SIKA ARMITEC 100 EPOCEM, OR ENGINEER APPROVED EQUAL, TO CONCRETE SURFACES OF REPAIRS AND REBAR PRIOR TO INSTALLATION OF REPAIR

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- ALL MECHANICALLY CLEAN MATERIAL AND OTHER PARTICLES SHALL BE CONTAINED AND REMOVED FROM JORSITE

- ALL MECHANICALLY CLEAR MAY FEARLA AND O HER PARTICLES SHALL BE CONTINUED AND REMOVED FROM JUBSTIE.

 EPOXY SEALER SHALL BE SIKADUR 55 SLV, OR ENGINEER APPROVED EQUAL.

 POLYMER MODIFIED MORTAR SHALL BE SIKA TOP 123 PLUS OR ENGINEER APPROVED EQUAL.

 CONCRETE COATING SHALL BE THOROSEAL WITH ACRYL SO OR ENGINEER APPROVED EQUAL.

 ALL CONCRETE REPAIR AND COATING PRODUCTS NOTED ABOVE SHALL BE INSTALLED PER RESPECTIVE MANUFACTURER'S RECOMMENDATIONS.

SPECIAL NOTE:

ACTOR TO NOTIFY ALL AGENCIES LISTED BELOW AT LEAST 2 WEEKS

CITY OF KINGSVILLE PUBLIC WORKS(361) 595-8041 KLEBERG COUNTY SHERRIF'S DEPARTMENT......(361) 595-8500 CITY OF KINGSVILLE POLICE(361) 592-4311 CITY OF KINGSVILLE FD/EMT(361) 592-6445 INGSVILLE I.S.D(361) 592-3387

CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AFFECTED BY CONSTRUCTION ACTIVITIES AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION



GIVE 4 WORKING DAYS (M-F) NOTICE

CONSULTANT'S SHEET PROJECT NO. 22107-08

KINGSVILLE S BRIDGE REPAIR

NOTES GENERAL

CITY OF K

DRAWING NO.

C2

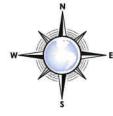
SHEET 3 of 22

	ESTIMATED QUANTITIES SUMMARY - TOTALS						
	DESCRIPTION	UNIT	QUANTITY				
9	TRANQUITAS BRIDGE REPAIR						
A1	MOBILIZATION / BONDS / INSURANCE	LS	1				
A2	SPALLING	CF	85				
АЗ	DELAMINATION	CF	75				
A4	REBAR REPAIR	LF	100				
A5	EXPANSION JOINT SEALANT	LF	150				
A6	ABUTMENT WALL (SHOTCRETE 3")	CF	80				

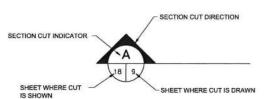
- NOTE:

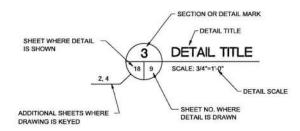
 1. THE ESTIMATED QUANTITIES LISTED ARE FOR INFORMATIONAL PURPOSES AND FOR CONTRACTOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR DELIVERING A FINISHED PROJECT AS DETAILED ON THE PLANS AND SPECIFICATIONS.

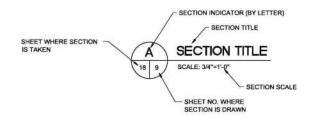
 2. CONTRACTOR SHALL ACCOUNT FOR 20% ± OF ALL MATERIALS.



NORTH ARROW

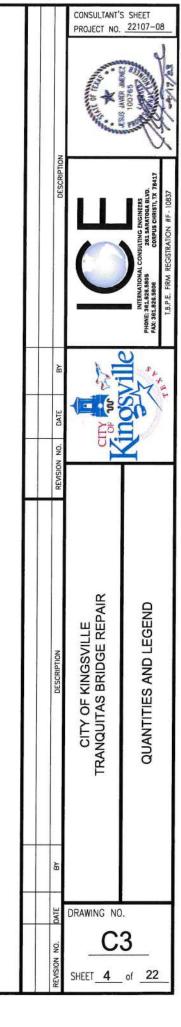


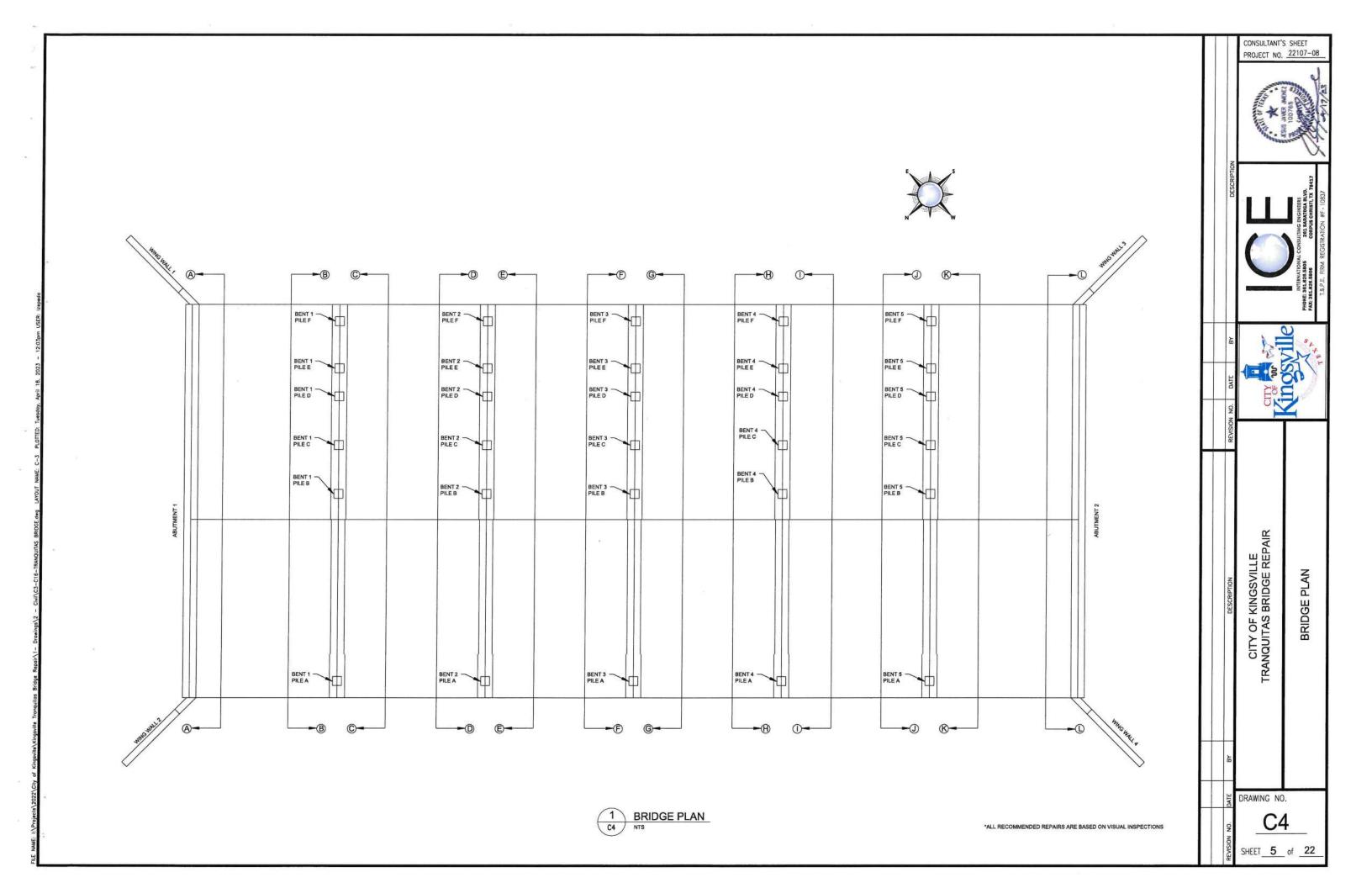


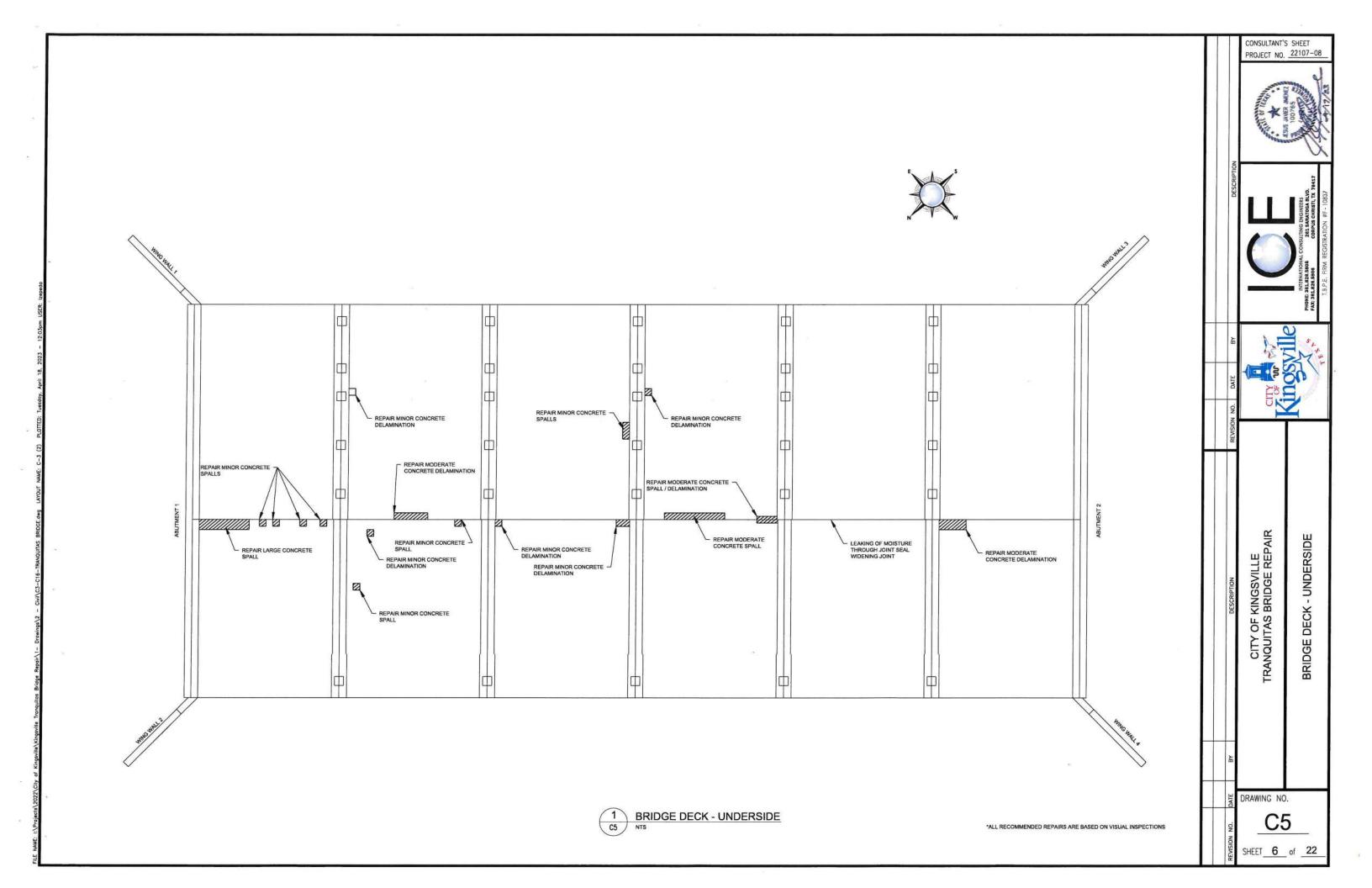


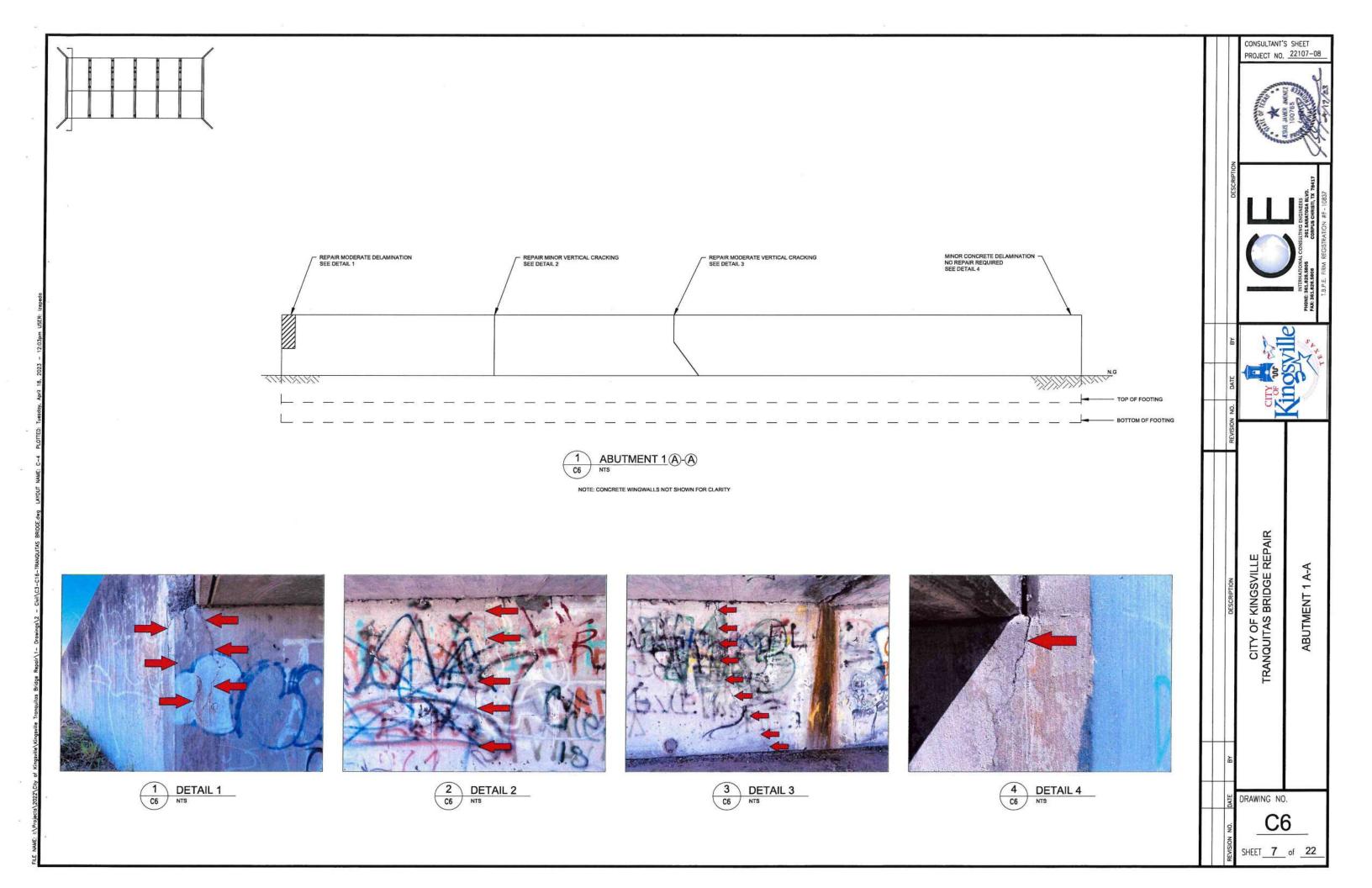
EXISTING LEGEND

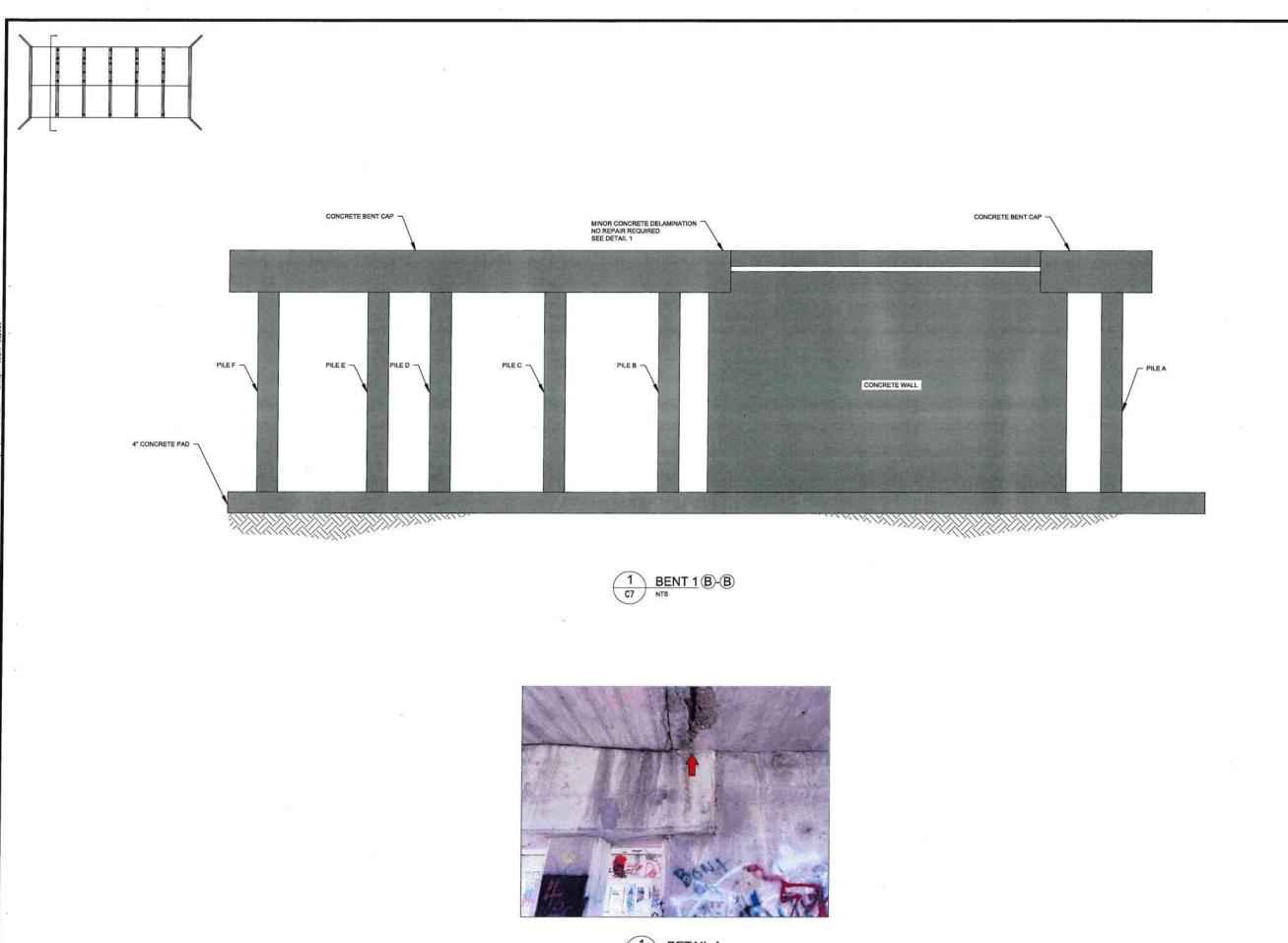
NG - NATURAL GRADE T.O.C.- TOP OF CONCRETE







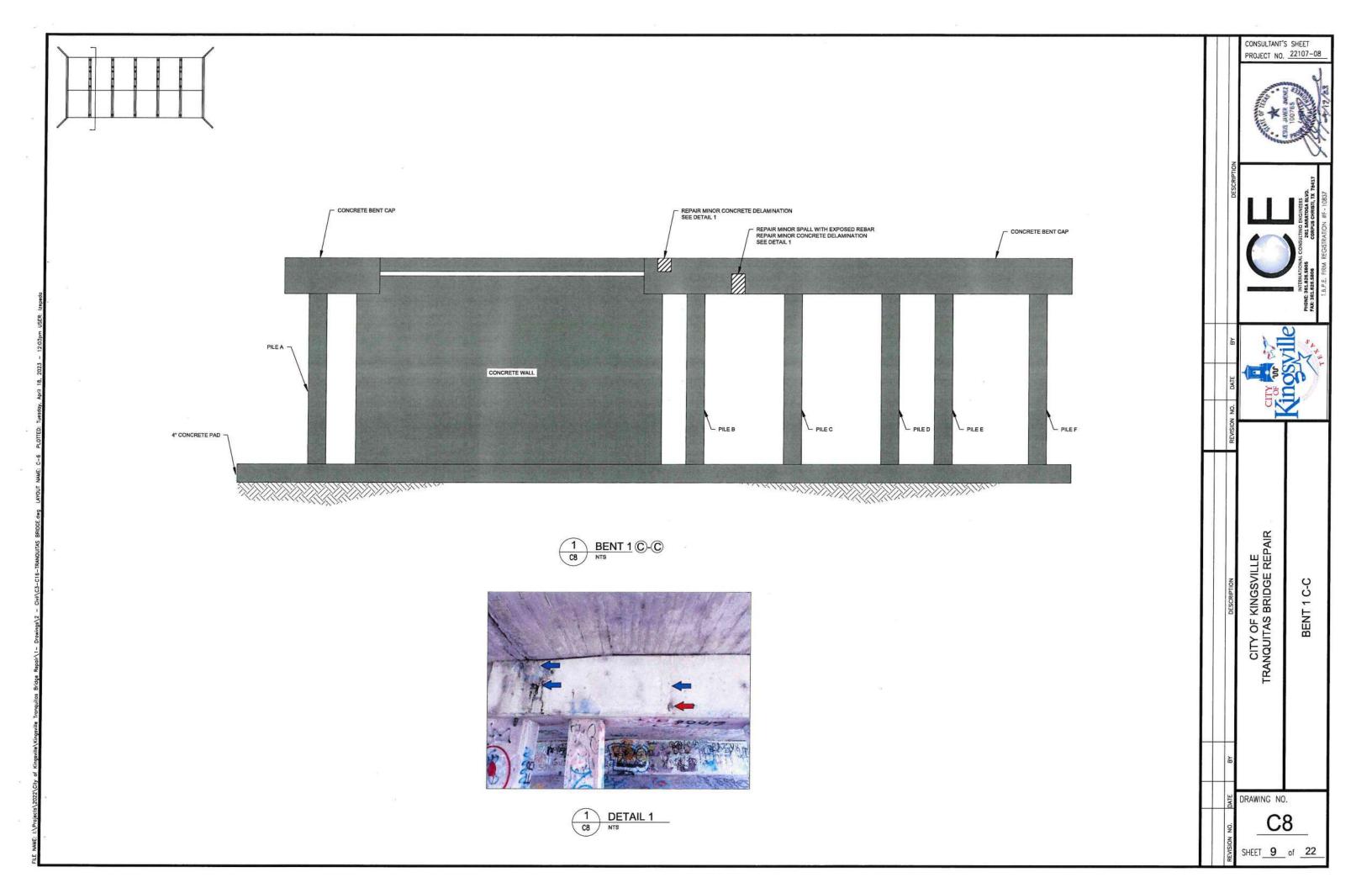


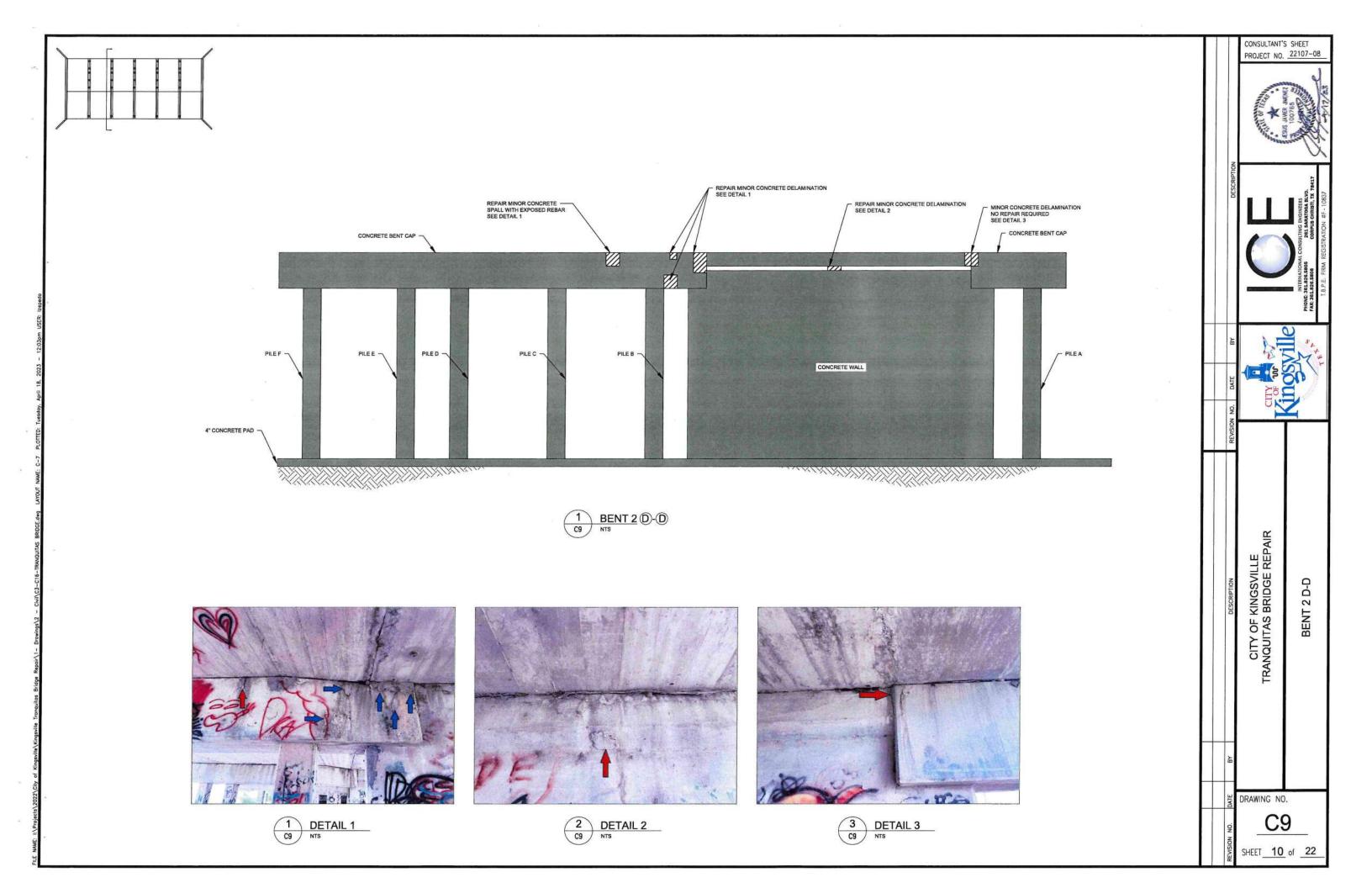


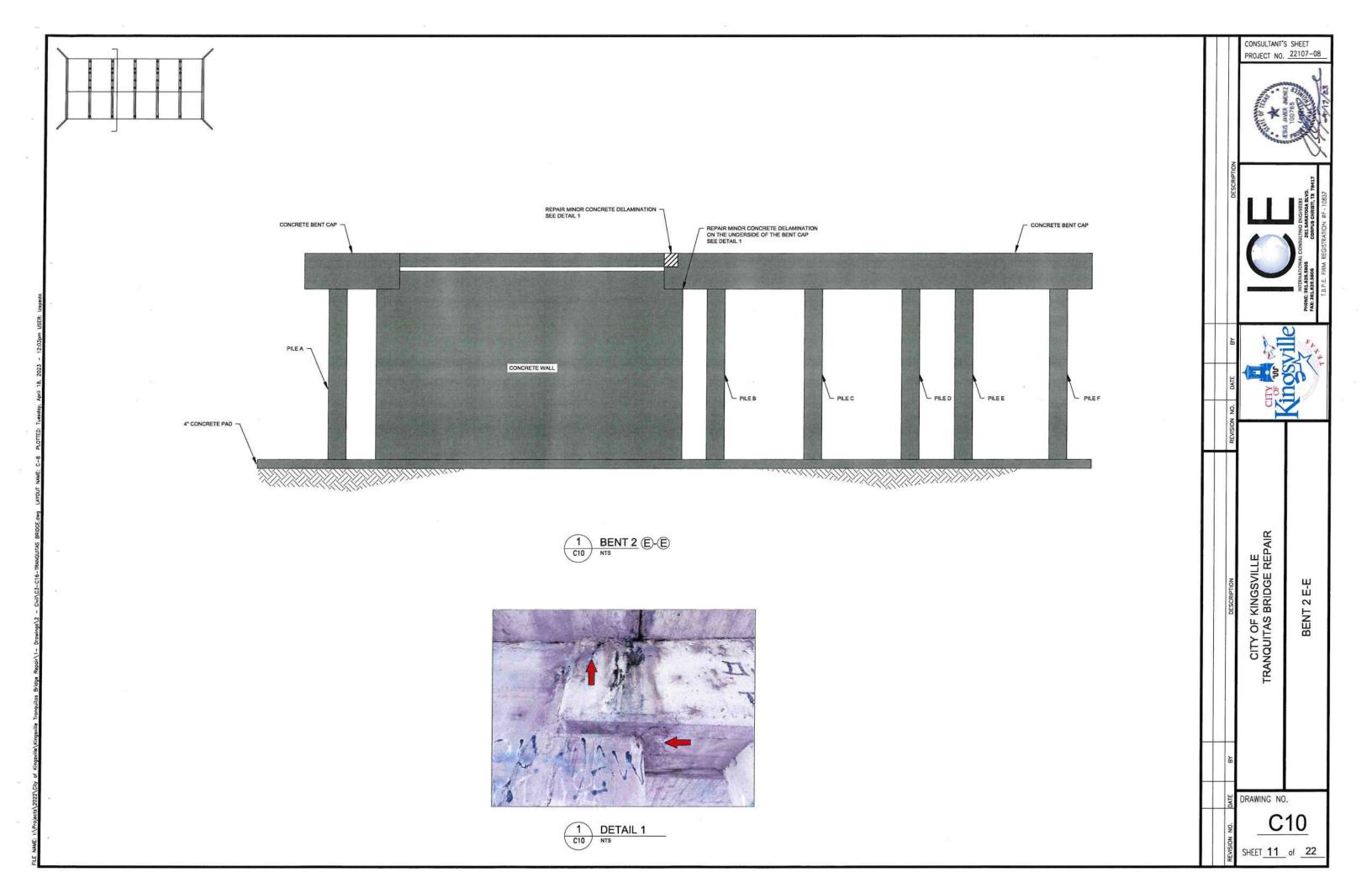
CITY OF KINGSVILLE TRANQUITAS BRIDGE REPAIR BENT 1 B-B DRAWING NO. **C7** SHEET 8 of 22

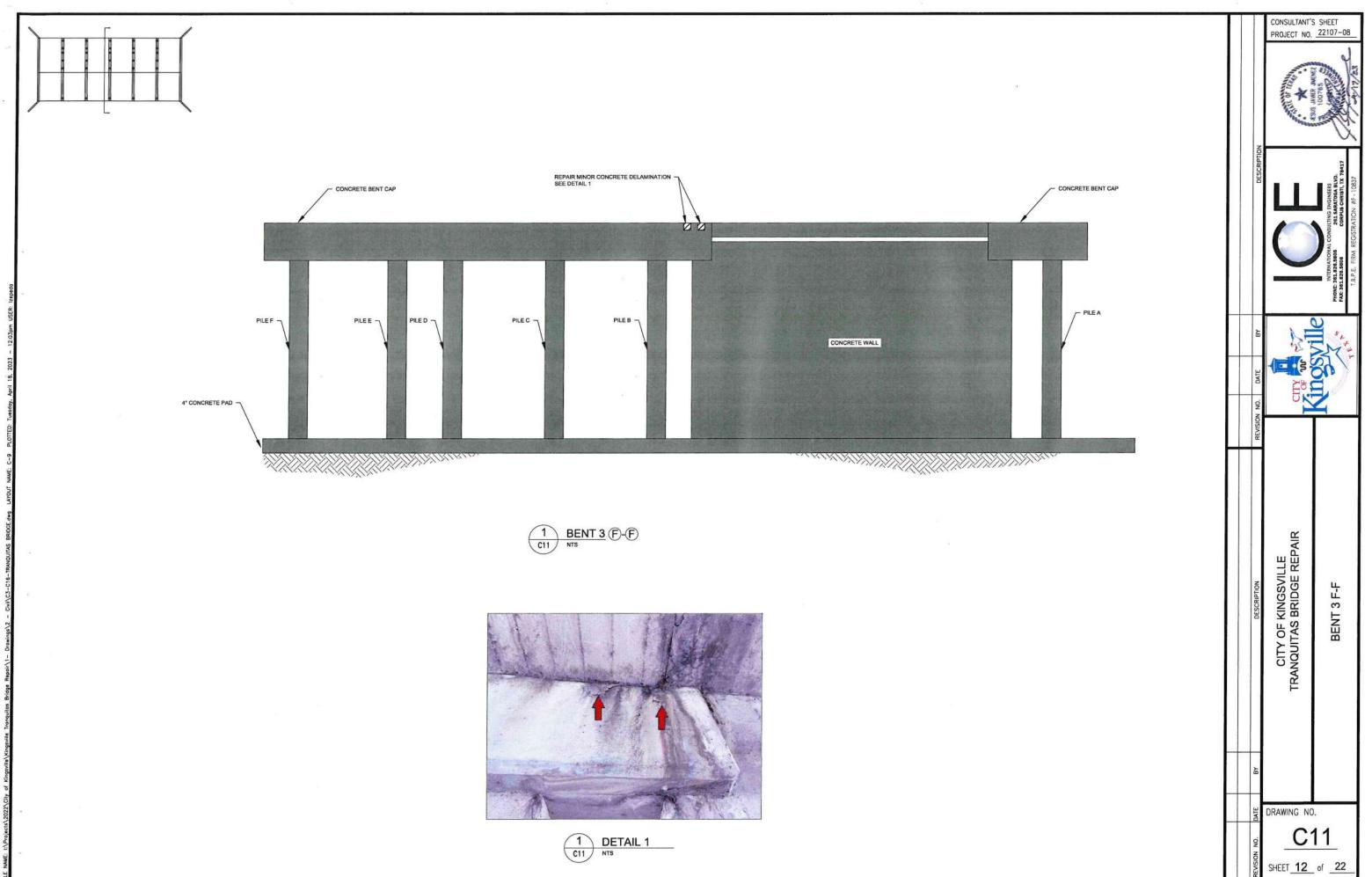
CONSULTANT'S SHEET PROJECT NO. 22107-08

1 DETAIL 1
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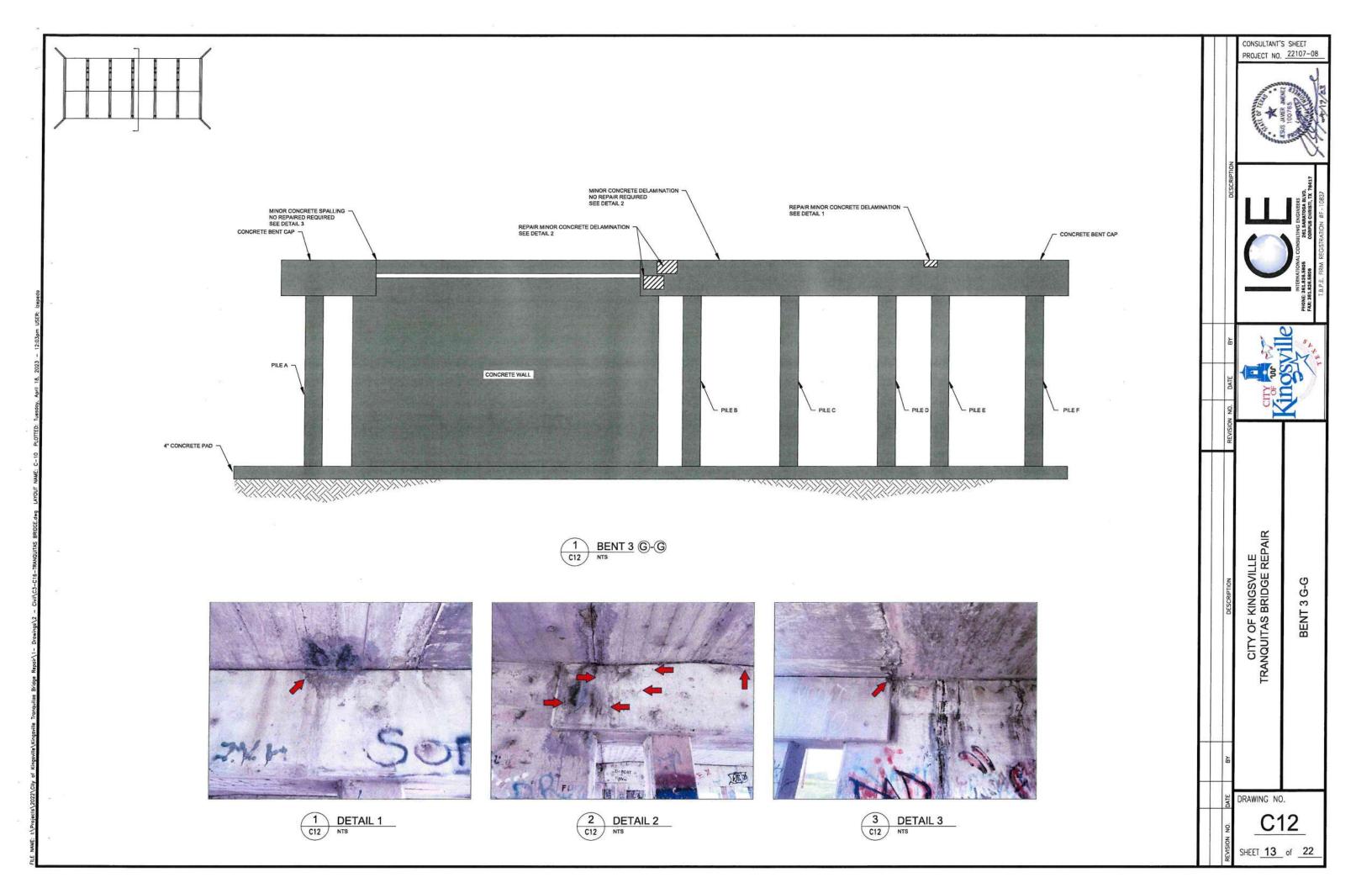


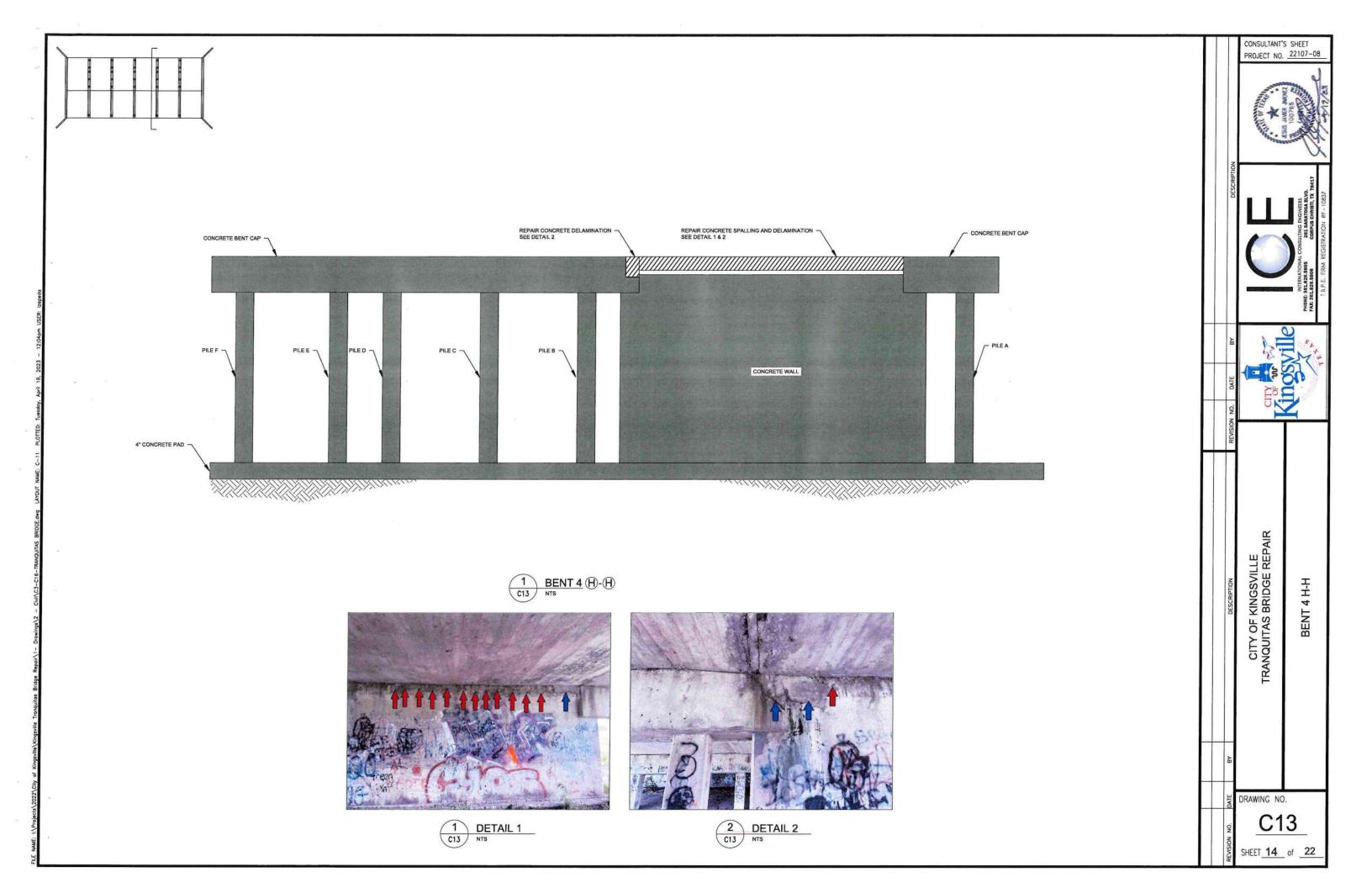


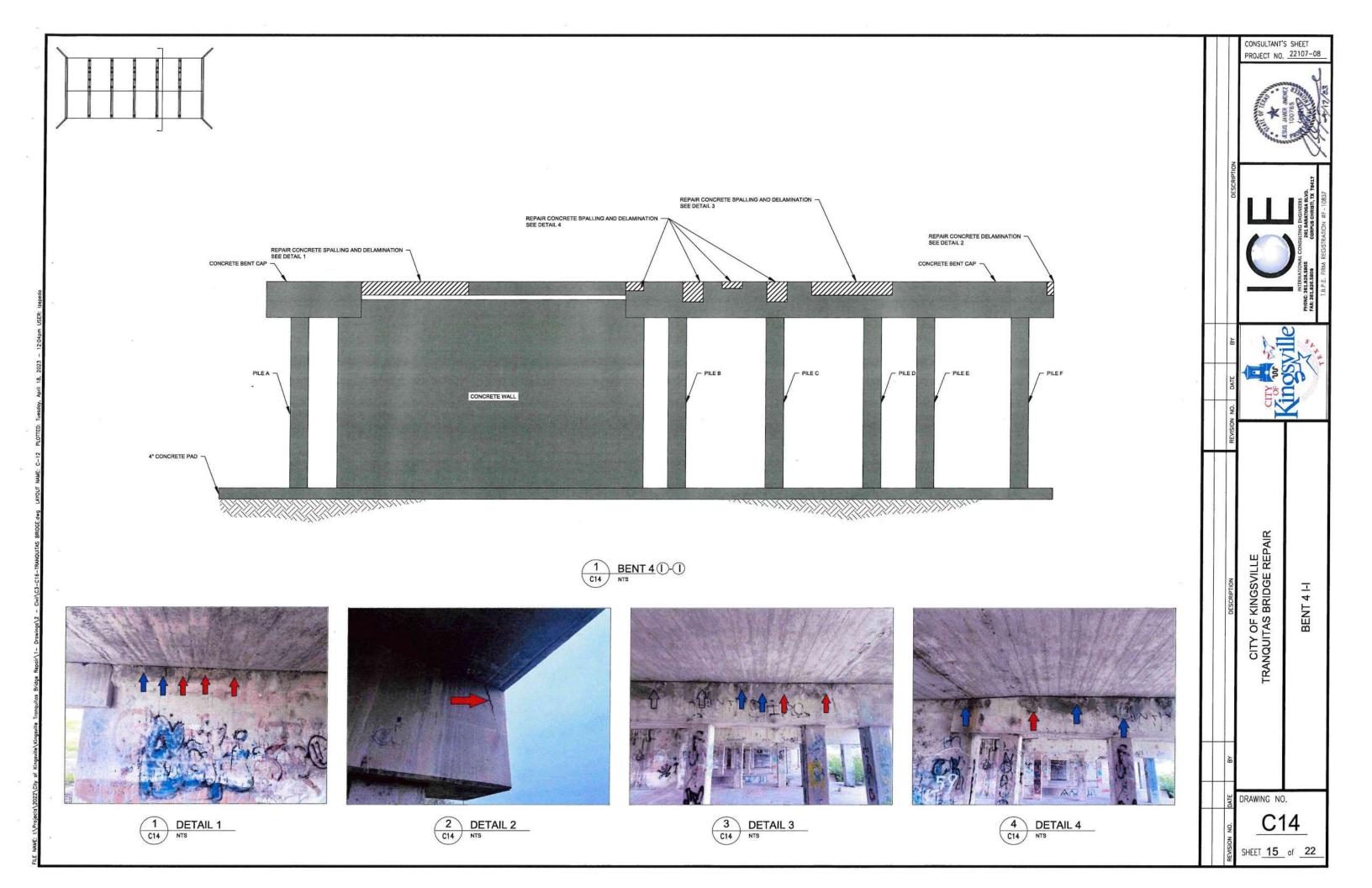


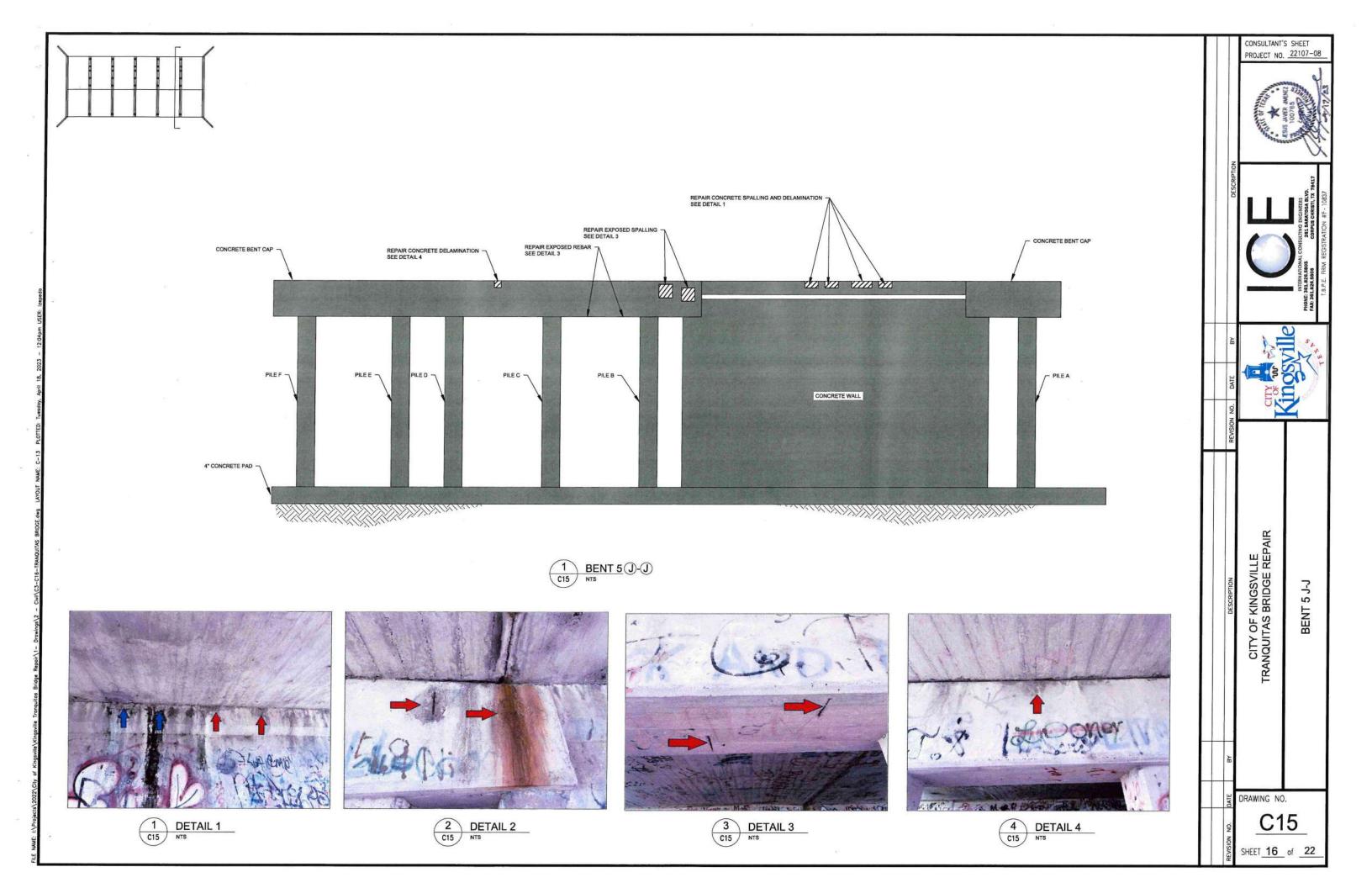


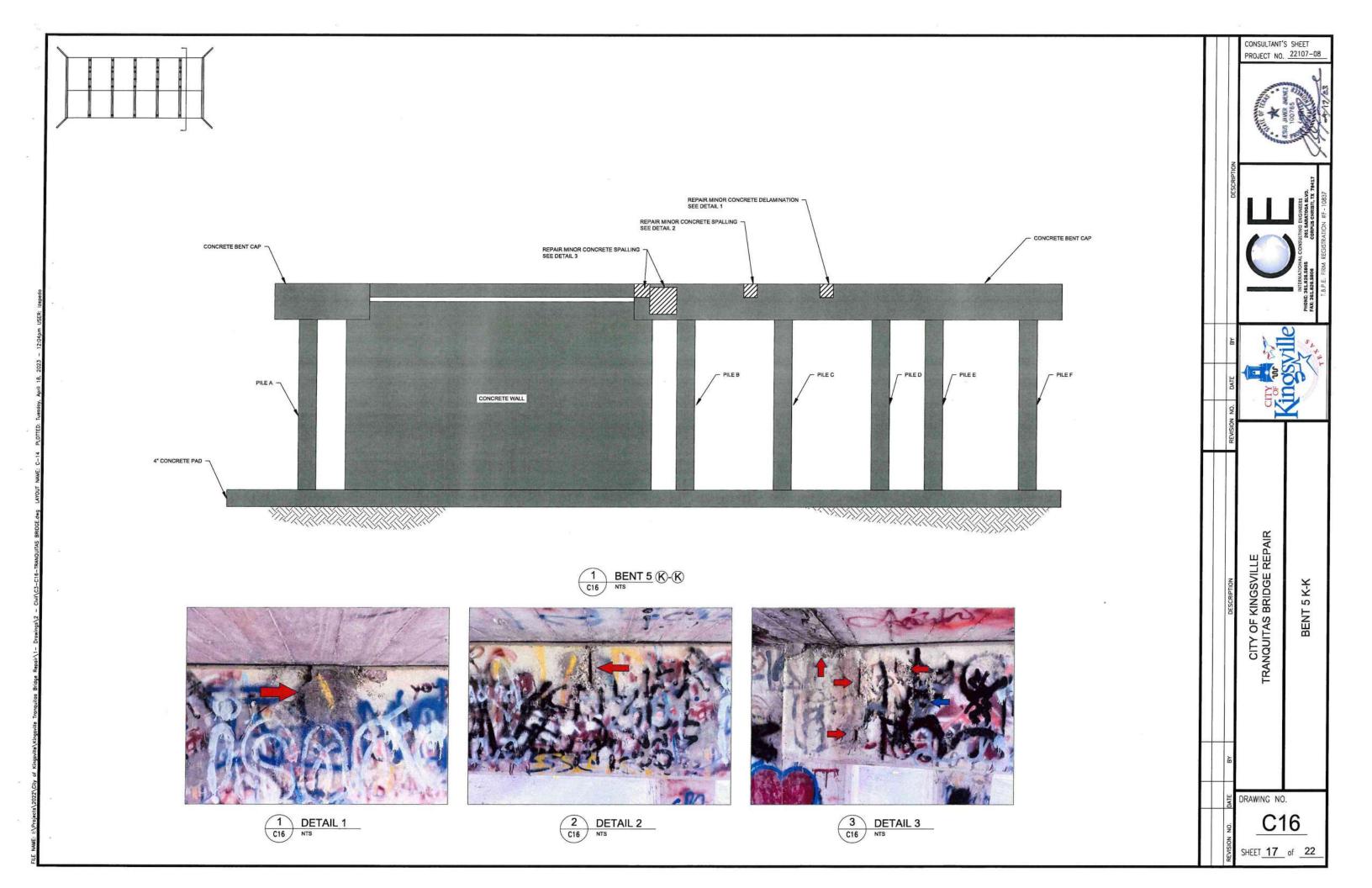
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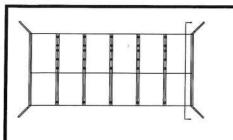


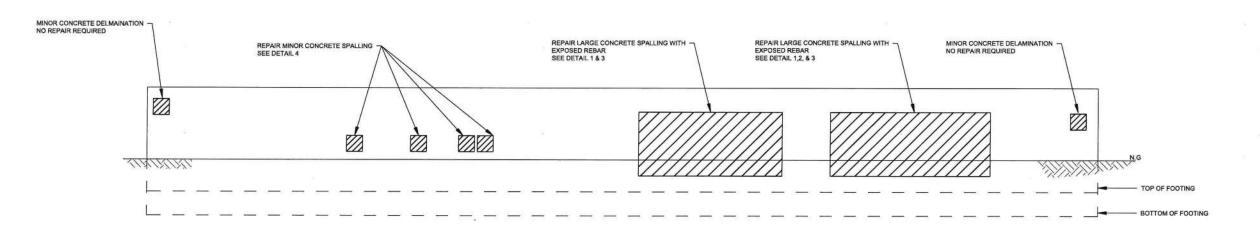












1 ABUTMENT 2 L-L

NOTE: CONCRETE WINGWALLS NOT SHOWN FOR CLARITY









1 DETAIL 1

2 DETAIL 2
C17 NTS

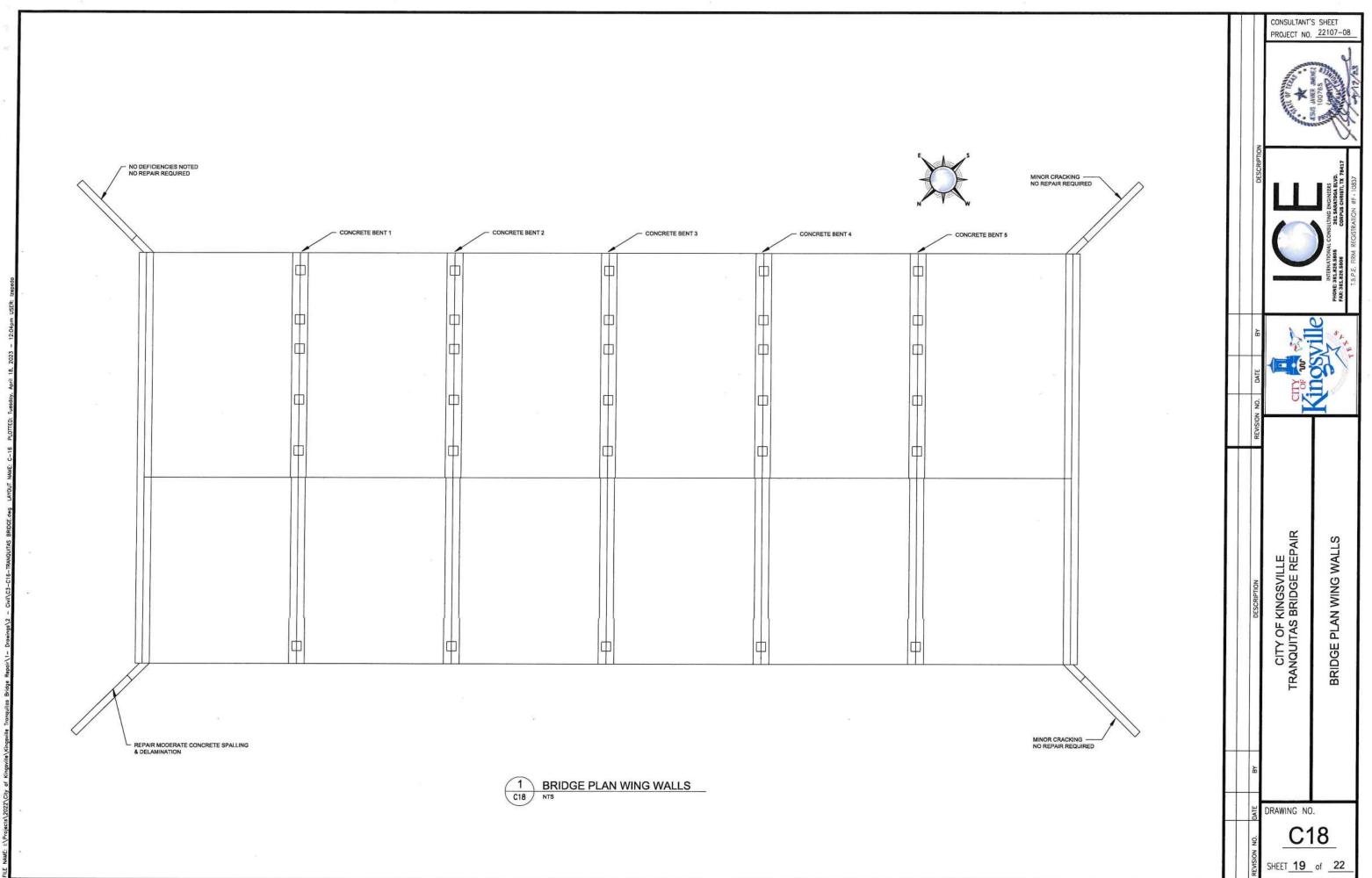
3 DETAIL 3

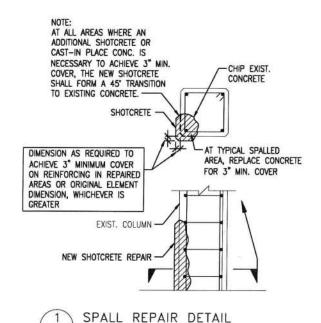
4 DETAIL 4
C17 NTS

CITY OF KINGSVILLE
TRANQUITAS BRIDGE REPAIR

19 04 ABUTMENT 2 L-L

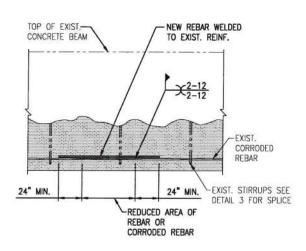
CONSULTANT'S SHEET PROJECT NO. 22107-08





C19

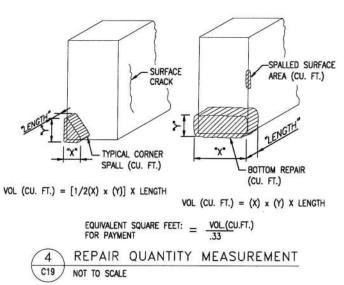
SCALE: 3/4"=1'-0"



NOTE: REINFORCING SIZES AND LOCATIONS ARE TAKEN FROM DESIGN DWG'S. ACTUAL SIZES AND LOCATIONS MAY VARY (TYP.)

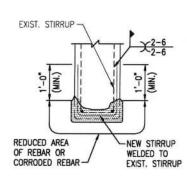
2 TYPICAL REBAR SPLICE DETAIL

C19 SCALE: 1"=1'-0"



REPAIR QUANTITIES WILL BE BASED ON THE FOLLOWING: CITY OF KINGSVILLE REPRESENTATIVES OR THE CONTRACT ENGINEER WILL MEASURE THE SPALLED AND CRACKED AREA QUANTITIES AFTER COMPLETION OF CHIPPING AND CLEANING PROCESS, BUT PRIOR TO NEW REPAIRS. ALL REPAIR QUANTITIES WILL BE MEASURED IN LINEAR FEET FOR CRACKS AND IN CU.FT. FOR SPALLED BASED ON THE FOLLOWING DEPTH CRITERIA: A) CRACK-1" DEEP B) SPALL-3" DEEP 2. PAYMENT FOR THE QUANTITIES OVER AND ABOVE THE TABULATED REPAIR QUANTITIES MUST BE APPROVED BY OWNERS REPRESENTATIVE PER ADDITIVE/DEDUCTIVE BID ITEM 1.

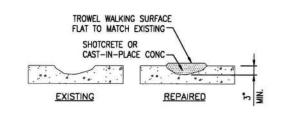
NOTE:



TYP. STIRRUP
SPLICE DETAIL
C19 NOT TO SCALE

NOTES:

- REBAR SPLICE SHALL BE NECESSARY WHEN EXISTING EXPOSED REBAR HAS LOST 25% OF ITS ORIGINAL CROSS—SECTIONAL AREA (NOT DIAMETER) AFTER SANDBLASTING.
- REMOVAL OF SOUND CONCRETE MAY
 BE REQUIRED TO ACHIEVE MIN. SPLICE
 LENGTH. CONSULT WITH ENGINEER
 BEFORE REMOVING ANY SOUND
 CONCRETE.
- ALL EXPOSED REBARS SHALL BE COMPLETELY MECHANICALLY CLEANED PRIOR TO PLACING SHOTCRETE OR CAST—IN—PLACE CONCRETE.
- APPLY SIKA ARMTEC 1C CEMENTITOUS BONDER TO CONCRETE SURFACES OF REPAIRS AND REBAR PRIOR TO PLACEMENT OF SHOTCRETE OR CAST—IN PLACE CONCRETE.



TYPICAL SPALL
REPAIR DETAIL
SCALE: 3/4"=1'-0"

NOTE:

1. FOR CONCRETE REPAIR NOTES SEE DWG. C-1

PROJECT NO. 22107-08 CITY OF KINGSVILLE TRANQUITAS BRIDGE REPAIR CONCRETE REPAIR DETAILS DRAWING NO. C19

SHEET 20 of 22

CONSULTANT'S SHEET



TYPICAL CONCRETE

1 SPALL WITH EXPOSED REBAR

C20 NTS



TYPICAL CONCRETE

SPALL WITH EXPOSED REBAR

Output

Ou



TYPICAL CONCRETE

3 SPALL WITH EXPOSED REBAR

C20 NTS



TYPICAL CRACK

AND SPALLING OF CONCRETE

NTS



TYPICAL CRACK

5 AND SPALLING OF CONCRETE

C20 NTS



TYPICAL CRACK

6 AND SPALLING OF CONCRETE

NTS

CONSULTANT'S SHEET PROJECT NO. 22107-08 CONCRETE FAILURE REPRESENTATIONS CITY OF KINGSVILLE TRANQUITAS BRIDGE REPAIR DRAWING NO. C20 SHEET 21 of 22

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