

	DIMENSIONS BETWEEN WORKING POINTS				COORDINATES			ELEVATIONS					
POINT	STATION	Α	В	С	D	E	F	Х	Y	TOP OF DECK	DECK TO BRIDGE SEAT	BRIDGE SEAT	POINT
Α	76+94.96		97.99		97.83	88.71	127.51	551233.422	210836.087	895.52			Α
В	75+99.19			100.67		136.69	88.72	551315.124	210781.985	894.61			В
С	76+97.21						117.21	551222.945	210822.439	895.88			С
D	75+99.17					129.34		551308.518	210773.381	894.82			D
E	77+07.81						97.99	551179.401	210765.716	895.86			E
F	75+99.07							551261.102	210711.614	894.80			F

NOTES

(1) CONTROL POINT © N.B. CSAH 4 STA. 76+97.21 £ 82'18'47.59" X = 551222.945 Y = 210822.439

No.	Date	Revisions	App.	DRAWING NAME		
				TCAAP_SPINERD_BR	ID_SUP01.dwg	
				DESIGNED BY:	SSB	
				DRAWN BY:	PHH	
				CHECKED BY:		
				DATE:	01/04/19	
				PROJECT NO	160553004	

Kimley» Horn

767 EUSTIS STREET, SUITE 100, ST, PAUL, MN 55114
PHONE: 651-645-4197
WWW.KIMLEY-HORN.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.

KATHRYN ELLIS, P.E. DATE:<u>01/04/19</u>MN LIC. NO.____55462



TCAAP PUBLIC INFRASTRUCTURE IMPROVEMENTS BRIDGE 62653 BRIDGE LAYOUT

CITY PROJECT		٩
COUNTY PROJECT		
S.A.P.	062-593-004	
S.A.P.		

BR2
BR15

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

SEE SPECIAL PROVISIONS FOR ALL XXX.6XX SERIES ITEMS FOR ADDITIONAL REQUIREMENTS

THE BAR SIZES SHOWN IN THIS PLAN ARE IN U.S. CUSTOMARY DESIGNATIONS.

BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH SPEC. 3301.

BARS MARKED WITH THE SUFFIX "S" SHALL BE STAINLESS STEEL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

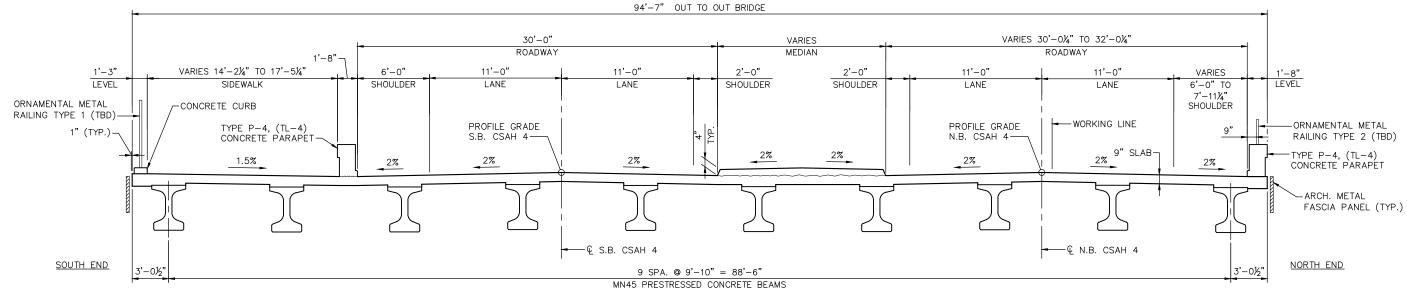
THE PILE LOADS SHOWN IN THE PLANS AND CORRESPONDING NOMINAL PILE BEARING RESISTANCE (Rn) WERE COMPUTED USING LRFD MEHODOLOGY. PILE BEARING RESISTANCE DETERMINED IN THE FIELD SHALL INCORPORATE THE METHODS AND/OR FORMULAS DESCRIBED IN THE SPECIAL PROVISIONS.

NUMBER AND SPACING OF BEAMS IS APPROXIMATE AND WILL BE SET IN FINAL DESIGN.

NOTES:

1) DOES NOT INCLUDE TEST PILES.

SCHEDULE OF QUANTITIES FOR ENTIRE BRIDGE QUANTITIY ITEM NO. 2401.503 TYPE CURB BARRIER CONCRETE (3S52) LIN. FT. 105 2401.503 TYPE P-4 (TL-4) BARRIER CONCRETE (3S52) LIN. FT. 285 2401.507 STRUCTURAL CONCRETE (1G52) CU. YD. 305 2401.507 STRUCTURAL CONCRETE (3B52) CU. YD. 315 2401.508 45570 REINFORCEMENT BARS POUND 2401.508 REINFORCEMENT BARS (EPOXY COATED) POUND 47000 2401.508 REINFORCEMENT BARS (STAINLESS-60KSI) POUND 660 2401.518 RAISED MEDIAN CONCRETE (3S52) SO. FT 1815 LUMP SUM 2401.601 STRUCTURE EXCAVATION 2401.618 BRIDGE DECK PLANING SQ. FT. 8660 2401.618 BRIDGE SLAB CONCRETE (3YHPC-M) SQ. FT. 9250 2402.502 BEARING ASSEMBLY EACH 20 2402.503 ORNAMENTAL METAL RAILING TYPE 1 (TBD) LIN. FT. 145 ORNAMENTAL METAL RAILING TYPE 2 (TBD) 105 2402.503 LIN. FT. 2405.503 PRESTRESSED CONCRETE BEAMS MN45 LIN. FT. 990 2405.503 DIAPHRAGMS FOR TYPE MN 45 PREST BEAMS LIN. FT. 180 SQ. YD. 2406.504 BRIDGE APPROACH PANELS 435 ANTI-GRAFFITI COATING SQ. FT. 640 2411.618 ARCH SURFACE FINISH (SINGLE COLOR) SQ. FT 2600 ARCH CONC. TEXTURE (TBD) SO. FT. 2411.618 480 2411.618 SQ. FT. ARCH METAL FASCIA PANEL 1850 C-I-P CONC TEST PILE 85 FT. LONG 12' EACH 2452.603 C-I-P CONCRETE PILING 12" LIN. FT. 11250 2502 501 DRAINAGE SYSTEM TYPE (B910) LUMP SUM RANDOM RIPRAP CLASS III 215 2511.507 CU. YD. 2511.504 GEOTEXTILE FILTER TYPE 3 SQ. YD. 430



TRANSVERSE SECTION

No.	Date	Revisions	App.	DRAWING NAME TCAAP_SPINERD_BRID_TNVS.dwg	
				DESIGNED BY:	SSB
				DRAWN BY:	PHH
				CHECKED BY:	
				DATE:	01/04/19
				PROJECT NO.	160553004



WWW.KIMLEY-HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREVARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KATHRYN ELLIS, P.E. ATE:<u>01/04/19</u>MN LIC. NO.<u>55462</u>

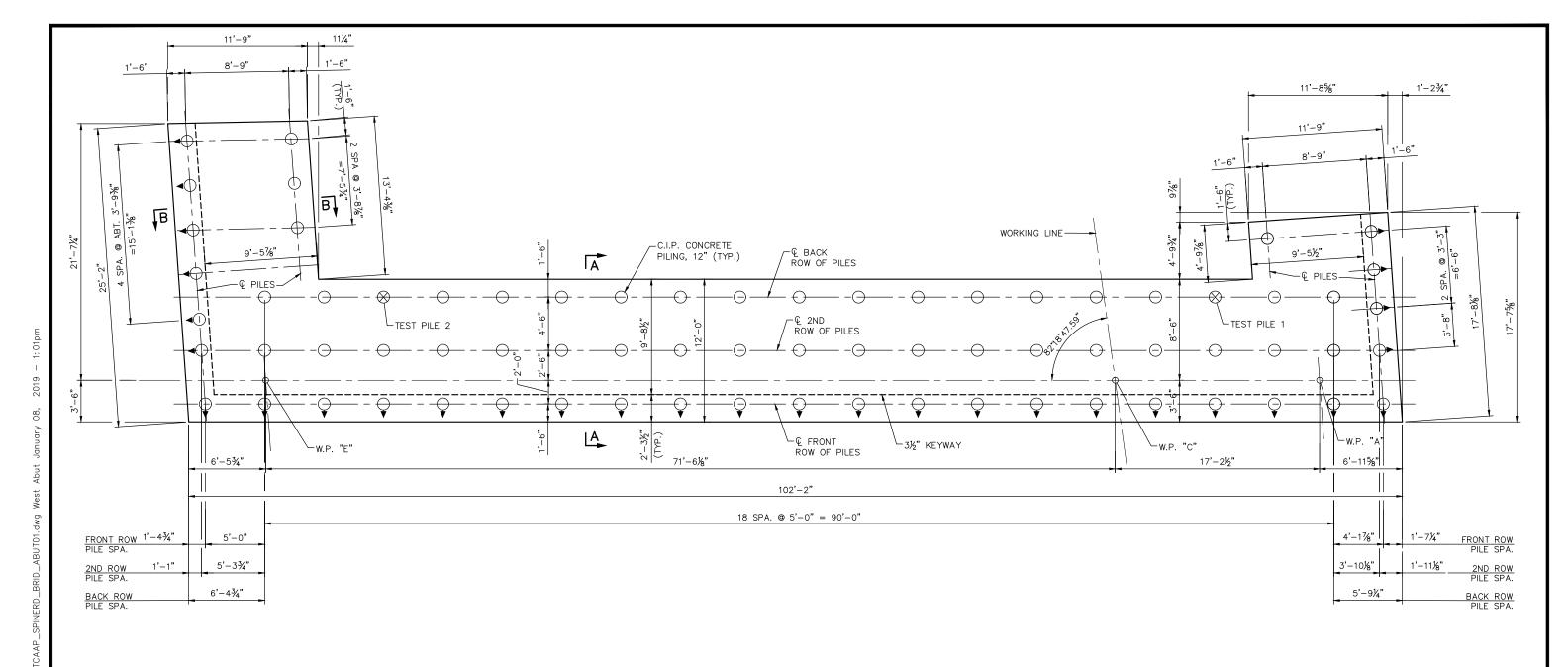


1

P PUBLIC INFRASTRUCTURE IMPROVEMENTS
BRIDGE 62653
TRANSVERSE SECTION

COUNTY PROJ
S.A.P.
S.A.P.

	SHEET NO.
	BR3
62-593-004	
	BR1
	62-593-004





GENERAL PILE NOTES:

- 2 C-I-P CONCRETE TEST PILES 85 FT. LONG 74 C-I-P CONCRETE PILES EST. LENGTH 75 FT.
- 76 C-I-P CONCRETE PILES REQ'D FOR WEST ABUTMENT
- PILE SPACING IS SHOWN AT BOTTOM OF FOOTING

PILES TO HAVE A NOMINAL DIAMETER OF 12" AND MINIMUM WALL THICKNESS OF $\mathcal{V}_{\!\!4}$ ".

FOR PILE SPLICE DETAILS SEE DETAIL B201.

SEE SHEET BR6 FOR SECTIONS A-A AND B-B.

No.	Date	Revisions	App.	DRAWING NAME	
				TCAAP_SPINERD_BR	ID_ABO 101.dwg
				DESIGNED BY:	SSB
				DRAWN BY:	PHH
					1 11111
				CHECKED BY:	
				DATE:	01/04/19
				PROJECT NO.	160553004

Kimley» Horn

767 EUSTIS STREET, SUITE 100, ST, PAUL, MN 55114
PHONE: 651-645-4197
WWW.KIMLEY-HORN.COM

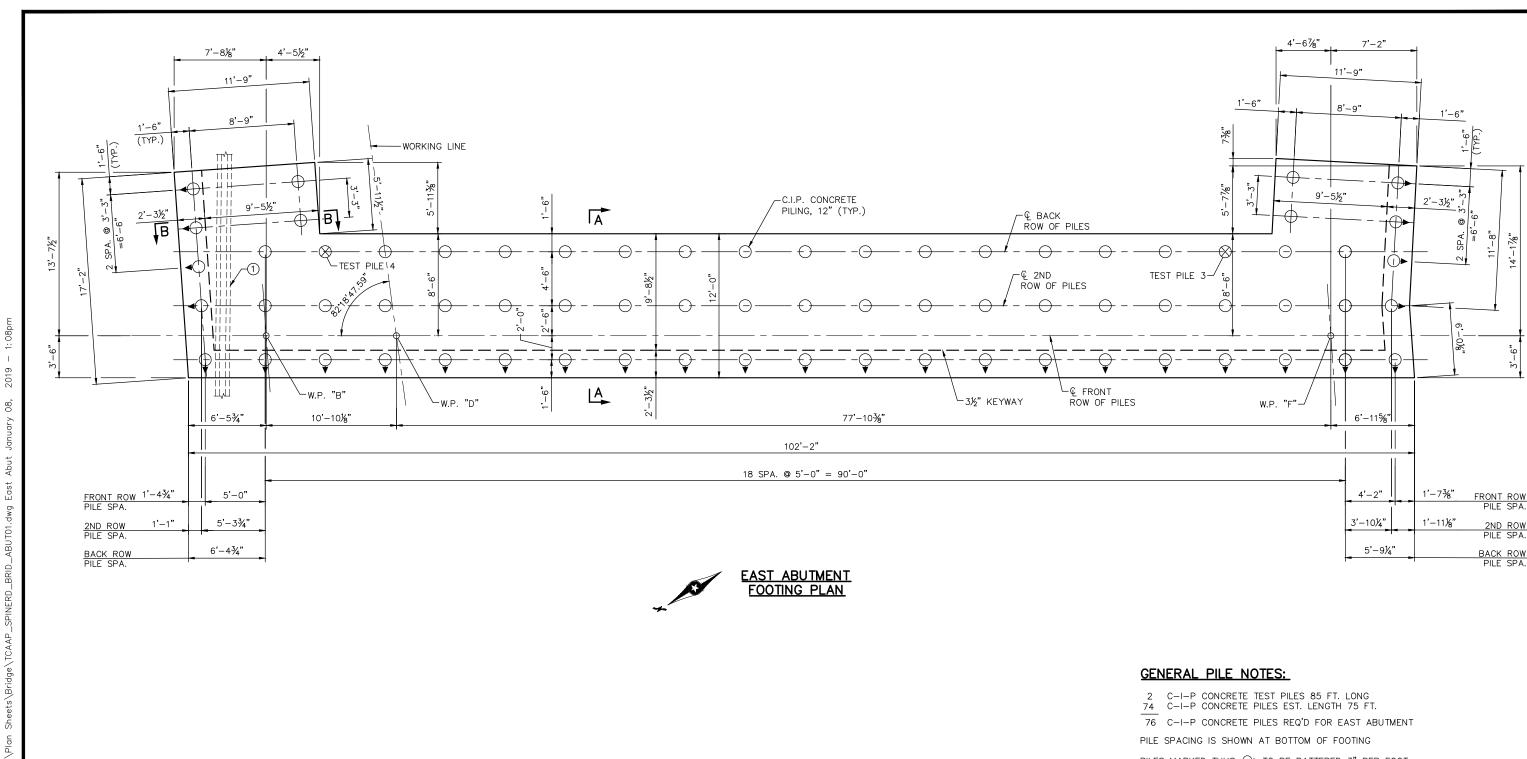
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREVARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KATHRYN ELLIS, P.E. DATE: 01/04/19 MN LIC. NO. 55462



TCAAP PUBLIC INFRASTRUCTURE IMPROVEMENTS BRIDGE 62653 WEST ABUTMENT DETAILS

CITY PROJECT		SHEET NO.
COUNTY PROJECT		BR4
S.A.P.	062-593-004	/
S.A.P.		BR15



PILES MARKED THUS \bigcirc TO BE BATTERED 3" PER FOOT IN DIRECTION SHOWN.

PILES TO HAVE A NOMINAL DIAMETER OF 12" AND MINIMUM WALL THICKNESS OF $\mathcal{V}_{\!\!4}$ ".

FOR PILE SPLICE DETAILS SEE DETAIL B201.

SEE SHEET BR6 FOR SECTIONS A-A AND B-B.

1) EXISTING 4" UTILITY CASING

No.	Date	Revisions	App.		
				FCAAP_SPINERD_BRII	D_ABUT01.dwq
				DESIGNED BY:	SSB
				DRAWN BY:	PHH
				CHECKED BY:	
				DATE:	01/04/19
				PROJECT NO.	160553004

Kimley» Horn

767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114
PHONE: 651-645-4197
WWW.KIMLEY-HORN.COM

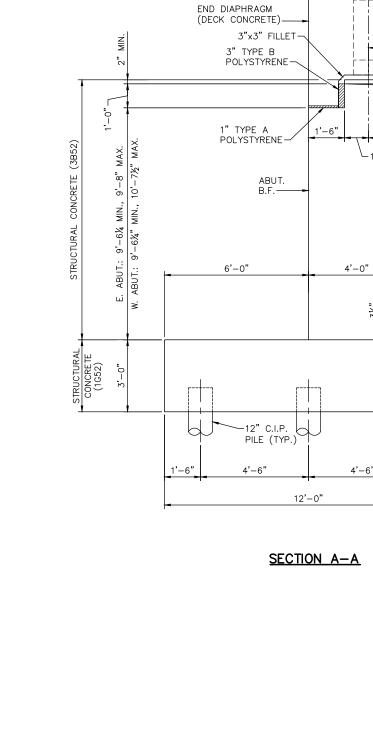
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KATHRYN ELLIS, P.E. DATE: 01/04/19 MN LIC. NO. 55462



TCAAP PUBLIC INFRASTRUCTURE IMPROVEMENTS BRIDGE 62653 EAST ABUTMENT DETAILS

CITY PROJECT		SHEET NO.
COUNTY PROJECT		BR5
S.A.P.	062-593-004	
S.A.P.		/ BR15



APPROACH

7"x1/2" BIT FELT

PANEL-

-€ BEARING

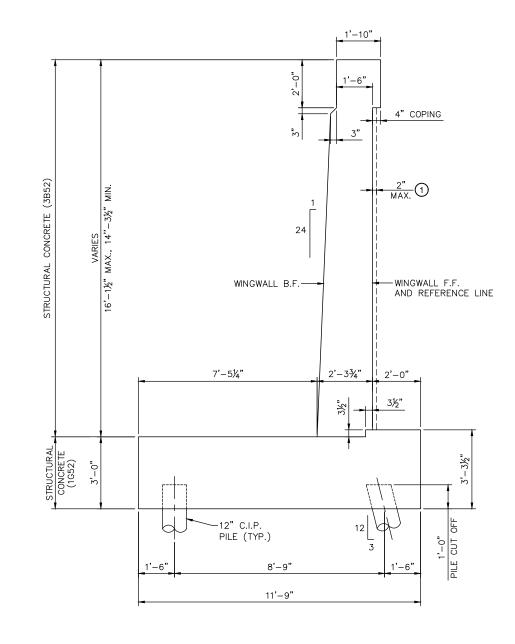
-DECK

— ABUT. F.F.

2'-0"

3½"

4'-6"



SECTION B-B

NOTES:

SEE SHEETS BR4 AND BR5 FOR LOCATIONS OF SECTIONS A-A AND B-B.

1 ARCHITECTURAL CONCRETE TEXTURE (TBD), ARCHITECTURAL SURFACE FINISH (SINGLE COLOR), AND ANTI-GRAFFITI COATING.

No.	Date	Revisions	App.	DRAWING NAME		
				FCAAP_SPINERD_BR		1
				DESIGNED BY:	SSB	ı
				DRAWN BY:	PHH	l
				CHECKED BY:		l
				DATE:	01/04/19	
				PROJECT NO.	160553004	L



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. KATHRYN ELLIS, P.E.

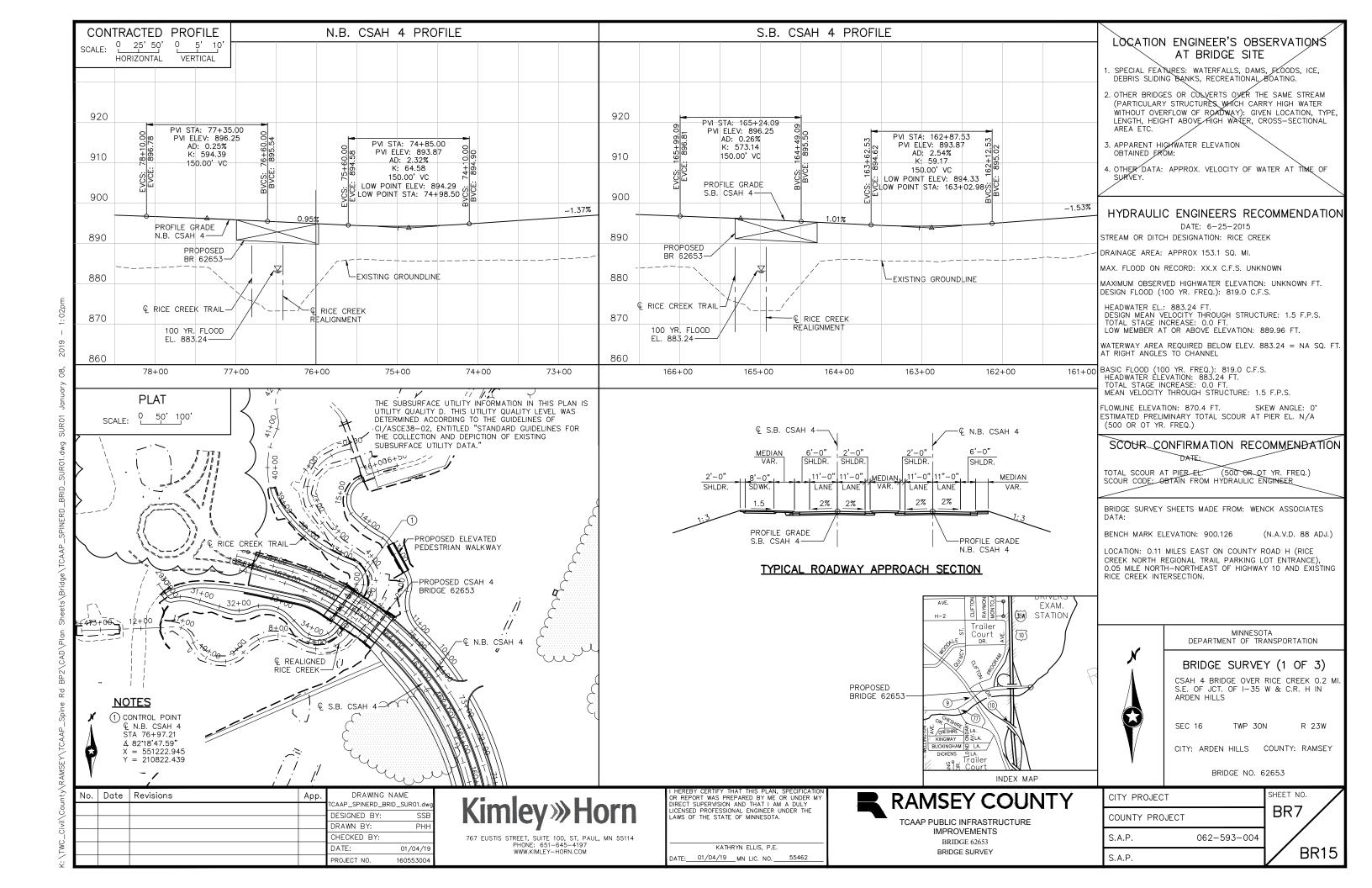
DATE: 01/04/19 MN LIC. NO. 55462



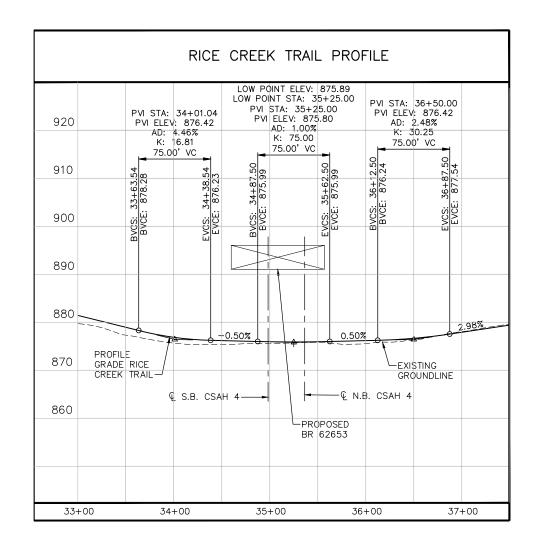
TCAAP PUBLIC INFRASTRUCTURE **IMPROVEMENTS** BRIDGE 62653 ABUTMENT DETAILS

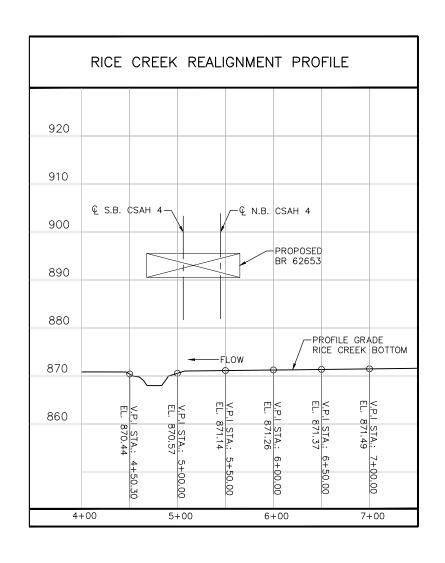
SH		CITY PROJECT
∃		COUNTY PROJECT
)4	062-593-004	S.A.P.
		S.A.P.
		•

EET NO. BR6 BR15



CONTRACTED PROFILE
SCALE: 0 25' 50' 0 5' 10'
HORIZONTAL VERTICAL





No.	Date	Revisions	Арр.	DRAWING NAME	
				TCAAP_SPINERD_BRI	D_SUR02.dwg
-				DESIGNED BY:	SSB
				DRAWN BY:	PHH
				CHECKED BY:	
				DATE:	01/04/19
				PROJECT NO.	160553004



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.

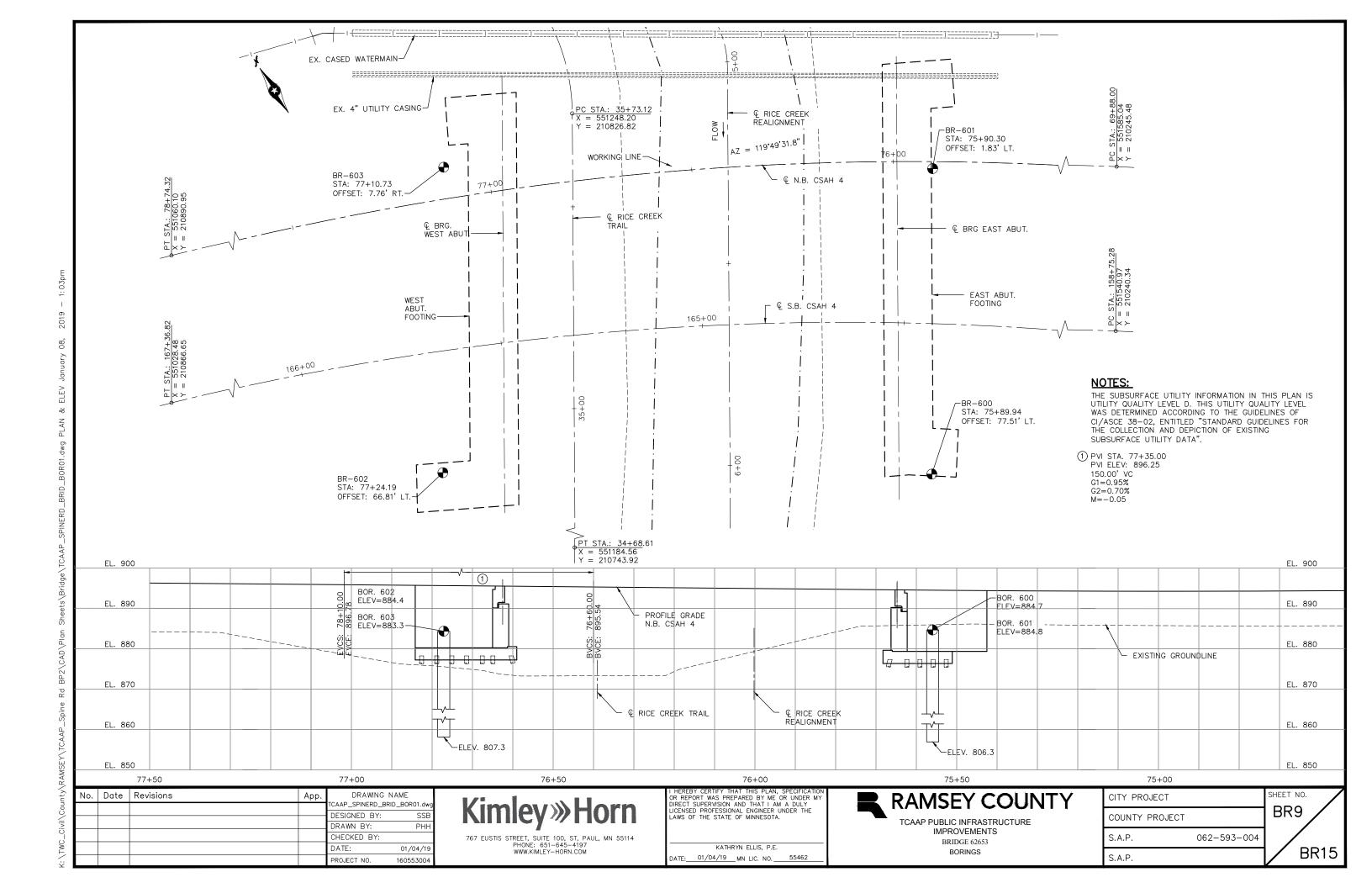
KATHRYN ELLIS, P.E. DATE: 01/04/19 MN LIC. NO. 55462

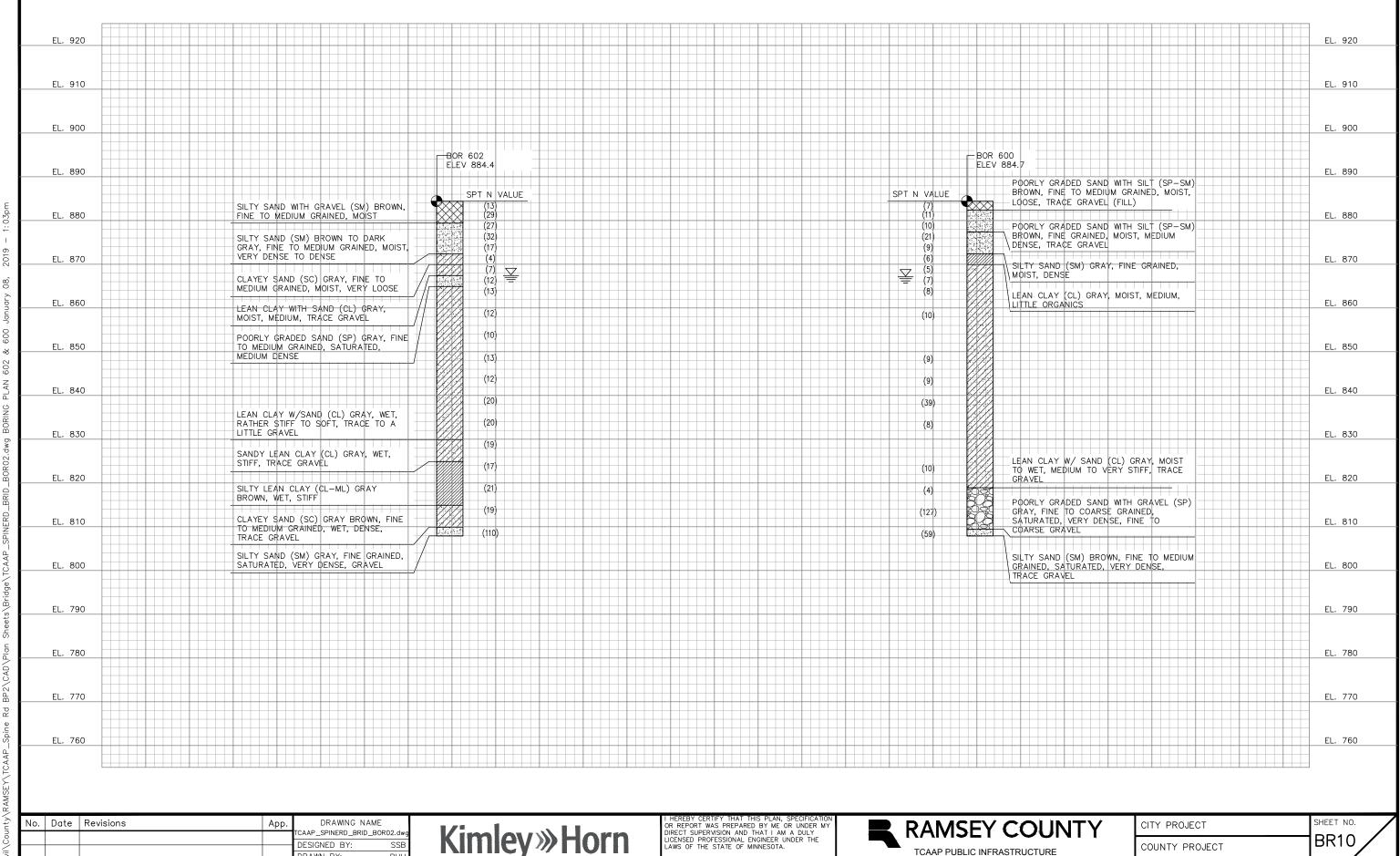


CAAP PUBLIC INFRASTRUCTURE IMPROVEMENTS BRIDGE 62653 BRIDGE SURVEY

CITY PROJECT		SHEET NO.
COUNTY PROJECT		BR8
S.A.P.	062-593-004	
S.A.P.		/ B

BR15





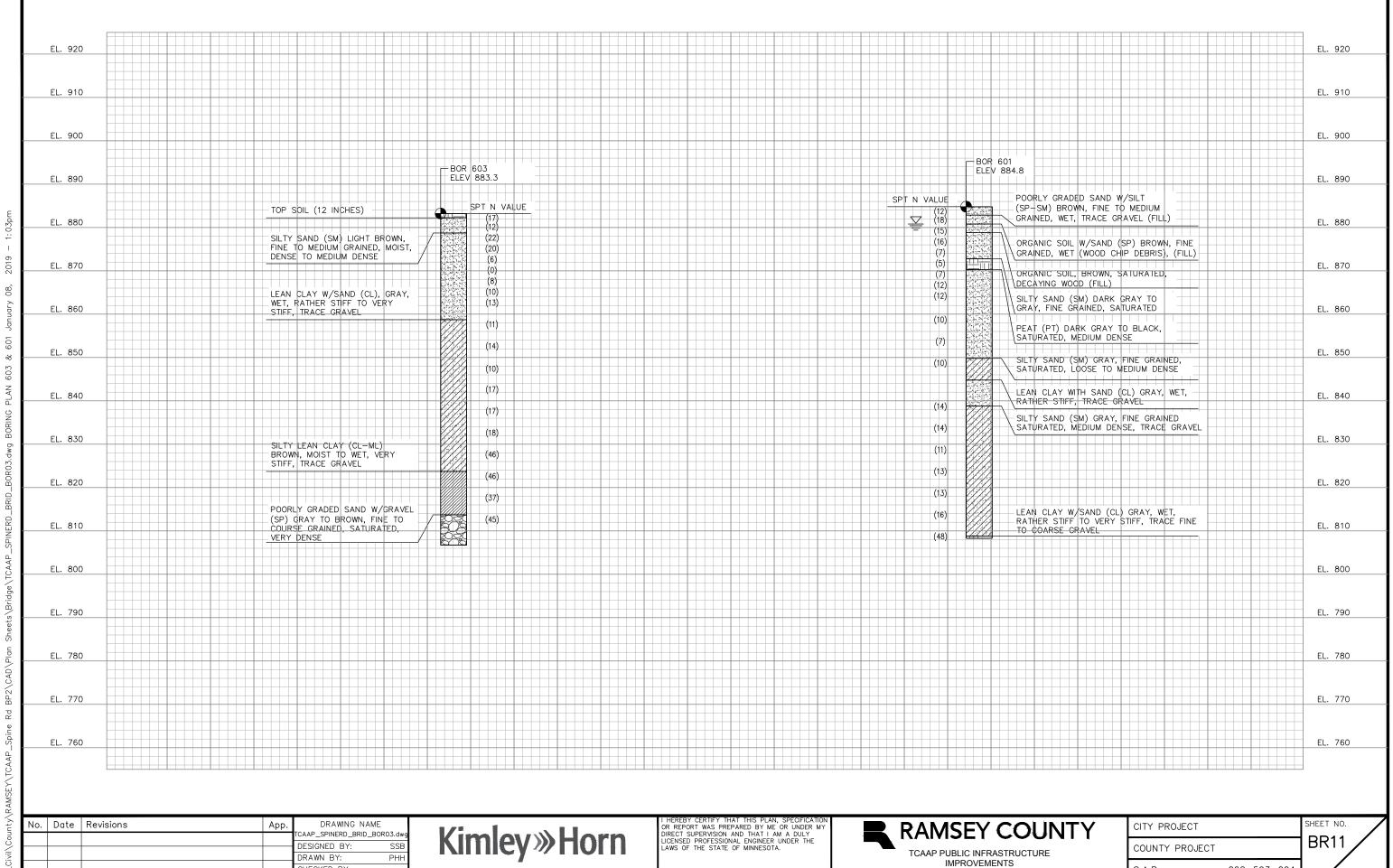
DRAWN BY: PHH CHECKED BY: DATE: 01/04/19 PROJECT NO. 160553004



WWW.KIMLEY-HORN.COM

KATHRYN ELLIS, P.E. ATE: 01/04/19 MN LIC. NO. 55462 TCAAP PUBLIC INFRASTRUCTURE **IMPROVEMENTS** BRIDGE 62653 BORINGS

CITY PROJECT		SHEET
COUNTY PROJECT		BR′
S.A.P.	062-593-004	/
S.A.P.		

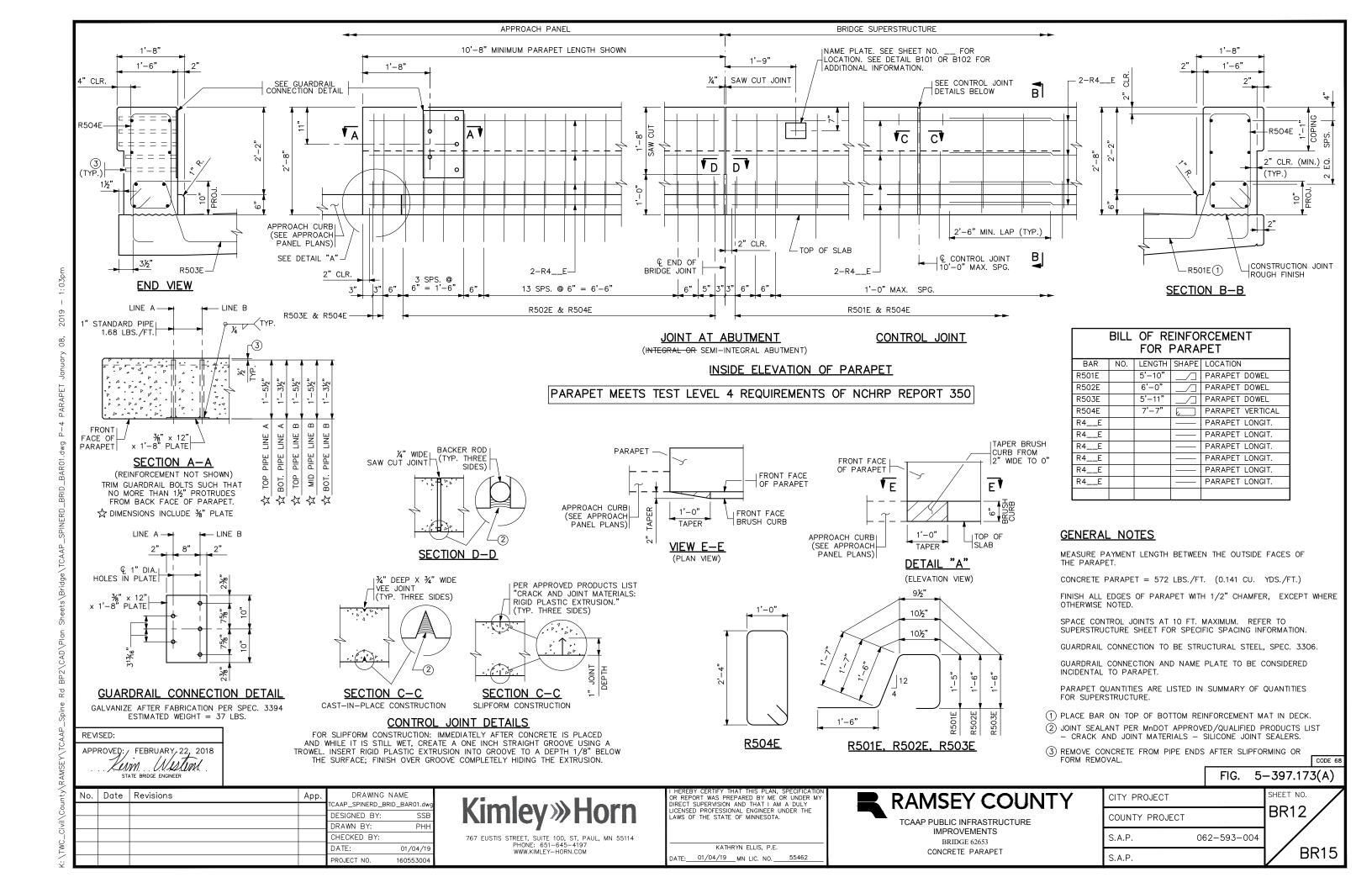


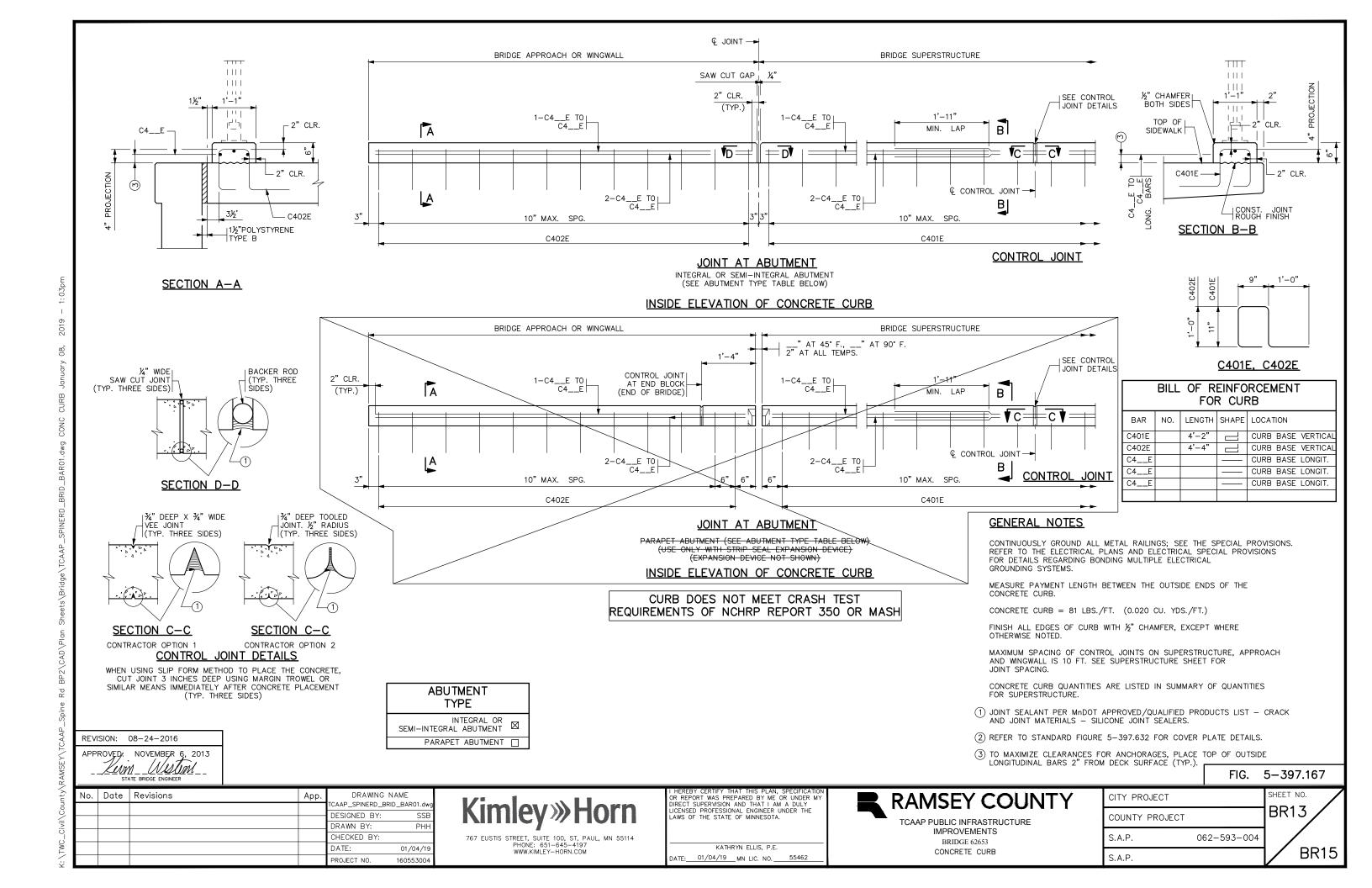
CHECKED BY: DATE: 01/04/19 PROJECT NO. 160553004

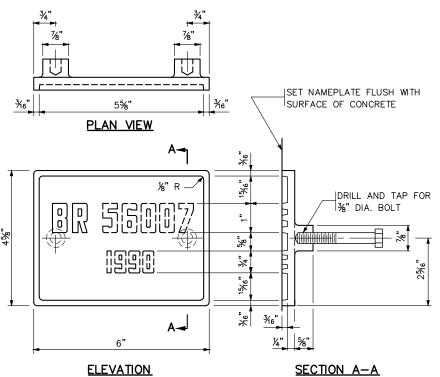
767 EUSTIS STREET, SUITE 100, ST, PAUL, MN 55114 PHONE: 651-645-4197 WWW.KIMLEY-HORN.COM

KATHRYN ELLIS, P.E. DATE: 01/04/19 MN LIC. NO. 55462 BRIDGE 62653 BORINGS

CITY PROJECT		SH
COUNTY PROJECT		E
S.A.P.	062-593-004	
S.A.P.		







THE DASHED NUMBERS SHOWN ABOVE ARE FOR ILLUSTRATION. DATA TO BE SHOWN ON NAMEPLATE IS AS FOLLOWS:

NUMBERS FOR NAMEPLATE

NOTES:

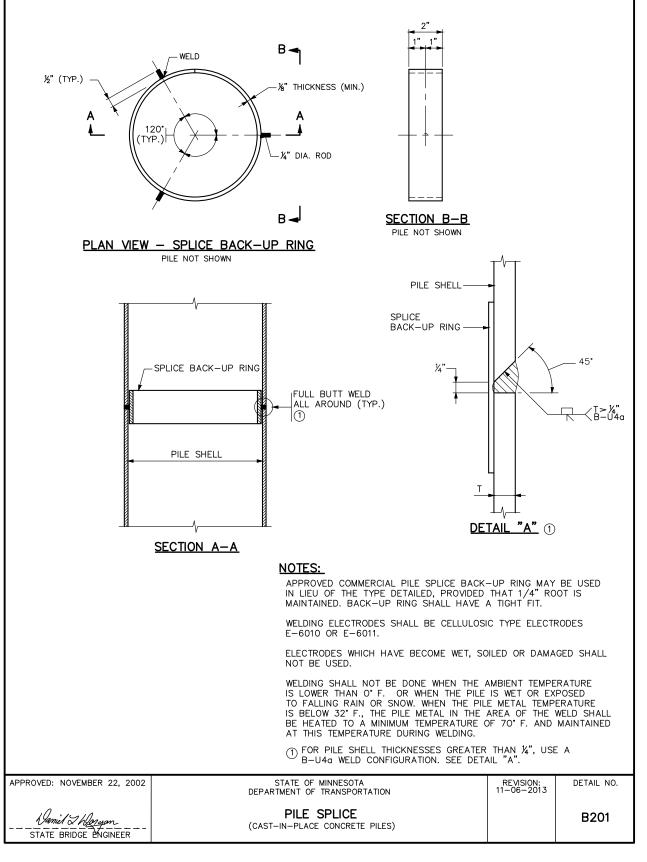
MATERIAL SHALL COMPLY WITH SPEC. 3327.

LETTERS AND NUMBERS SHALL CONFORM TO THOSE SHOWN.

DRAFT ON LETTERS AND NUMBERS SHALL NOT BE MORE THAN 3" IN 12". HORIZONTAL SPACING OF LETTERS AND NUMBERS SHALL PRODUCE A BALANCED LAYOUT IN PROPORTION TO SPACING SHOWN.

TOP SURFACE OF LETTERS, NUMBERS AND FRAMES SHALL BE BURNISHED. FURNISH 2 STEEL BOLTS $\frac{1}{3}$ " DIA. \times 3" LONG WITH EACH PLATE. ALL DIMENSIONS FOR $\frac{1}{3}$ " HIGH LETTERS AND NUMBERS SHALL BE IN DIRECT PROPORTION TO THOSE SHOWN FOR THE 1" HIGH LETTERS AND NUMBERS.

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION DETAIL NO. REVISION 09-11-2014 BRIDGE NAMEPLATE B101 (FOR NEW BRIDGES)



No.	Date	Revisions	App.	DRAWING NAME	
				TCAAP_SPINERD_BRID_DET.dwg	
				DESIGNED BY:	SSB
		DRAWN BY:	PHH		
				CHECKED BY:	
				DATE:	01/04/19
				PROJECT NO.	160553004



WWW.KIMLEY-HORN.COM

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.

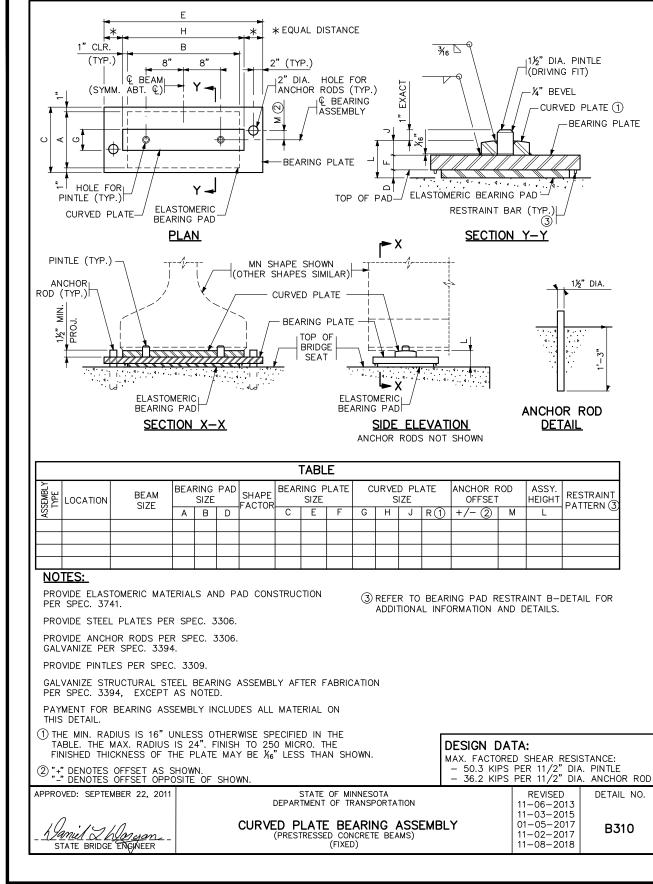
KATHRYN ELLIS, P.E. ATE: 01/04/19 MN LIC. NO. 55462

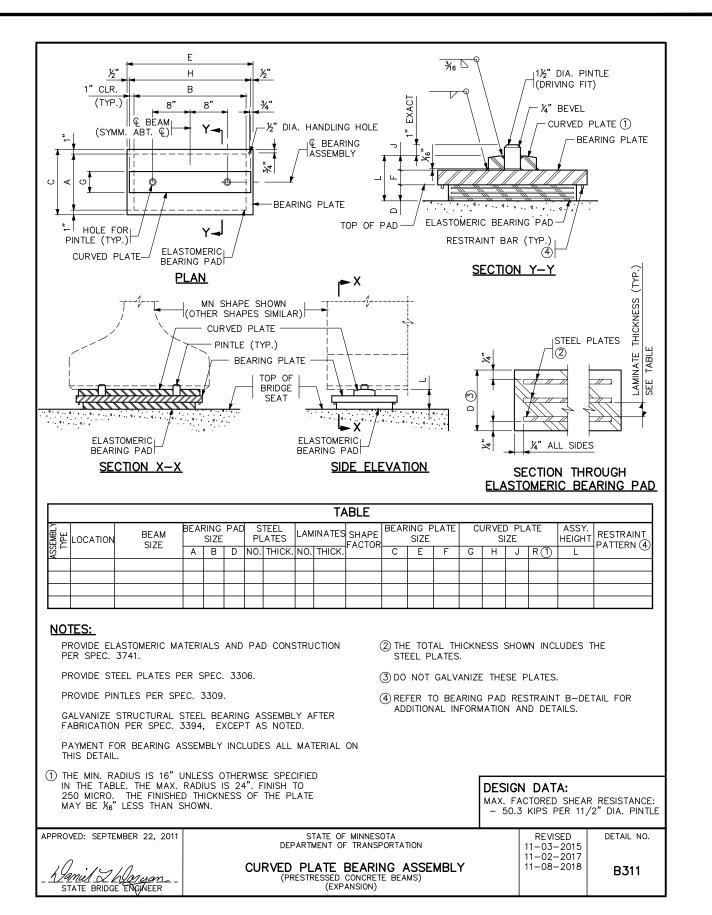


TCAAP PUBLIC INFRASTRUCTURE **IMPROVEMENTS** BRIDGE 62653 **B-DETAILS**

CITY PROJECT	
COUNTY PROJECT	
S.A.P.	062-593-004
S.A.P.	

SHEET NO. **BR14 BR15**





No.	Date	Revisions	App.	DRAWING NAME	
				TCAAP_SPINERD_BRID_DET.dwg	
				DESIGNED BY:	SSB
				DRAWN BY:	PHH
				CHECKED BY:	
				DATE:	01/04/19
				PROJECT NO.	160553004



WWW.KIMLEY-HORN.COM

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.

KATHRYN ELLIS, P.E. ATE:<u>01/04/19</u>MN LIC. NO.___ 55462



CITY PROJECT		
COUNTY PROJECT		
S.A.P.	062-593-004	
S.A.P.		L

SHEET NO **BR15 BR15**

767 EUSTIS STREET, SUITE 100, ST, PAUL, MN 55114 PHONE: 651-645-4197

TCAAP PUBLIC INFRASTRUCTURE **IMPROVEMENTS** BRIDGE 62653 **B-DETAILS**