



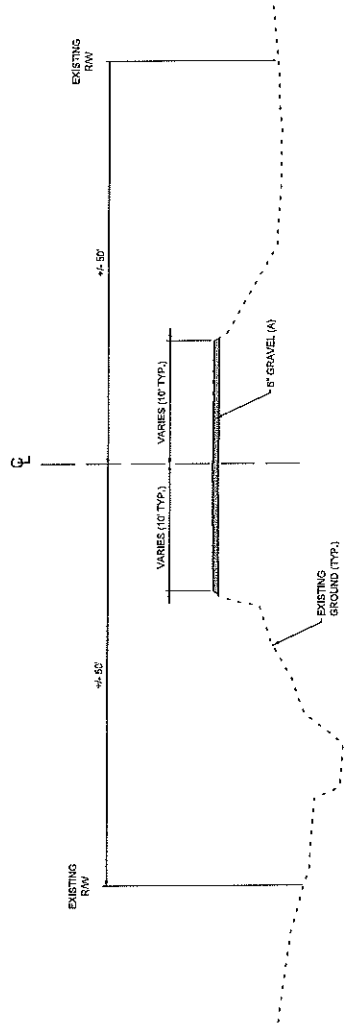
DATE: 08/21/19
 TIME: 10:00 AM
 SHEET: 2
 COUNTY: FRANKLIN
 PROJECT NO.: 1815510
 SHEET NO.:

DATE	DESCRIPTION



HORNER SHIFFRIN
 THE POWER HOUSE AT URBAN STATION
 401 S. 19th St. Ste. 400
 St. Louis, MO 63108-2288
 Tel: 314.591-4321 Fax: 314.531-0995
 www.horner-shiff.com
 314.591-4321
 Copyright © 2019
 Expiration Date: December 31, 2019

SCHOENEBERG ROAD BRIDGE REHABILITATION
 FRANKLIN COUNTY, MISSOURI
 TYPICAL SECTIONS & NOTES



SCHOENEBERG ROAD
 STA. 11+40.49 TO STA. 11+47.78
 STA. 11+71.93 TO STA. 11+88.83
BRIDGE STA. 11+47.78 TO STA. 11+71.93

- NOTES:**
- CONTRACTOR TO NOTIFY AND COORDINATE WITH UTILITY COMPANIES TWO WEEKS PRIOR TO COMMENCEMENT OF PROJECT.
 - CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS FOR PROPERTY OWNERS AT ALL TIMES.
 - CONTRACTOR SHALL PROVIDE EROSION CONTROL PLAN TO FRANKLIN COUNTY 10 DAYS PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL.



DATE PREPARED: 08/27/19
BY: JMO
PROJECT NO.: 2A
COUNTY: FRANKLIN
JOB NO.:

CONTRACT NO.:
PROJECT NO.: 1875510
BRIDGE NO.:

DESCRIPTION	DATE



HORNER SHIFFRIN
THE POWER HOUSE AT UNION STATION
401 S. 18th St. Ste. 400
St. Louis, MO 63103-2998
314.531-4324 FAX: 314.531-9966
www.horner-shiffrein.com
Missouri Professional Engineer License No. 00159
Expiration Date: December 31, 2019

SUMMARY OF QUANTITIES
SCHOENBERG ROAD
BRIDGE REHABILITATION
FRANKLIN COUNTY, MISSOURI

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
ROADWAY ITEMS:			
2819901	CLEARING AND GRUBBING	LS	1
2022010	REMOVAL OF IMPROVEMENTS	LS	1
2031000	CLASS A EXCAVATION	CY	10
3101003	GRAVEL (A) (6" THICK)	SY	60
6181047	TYPE III OBJECT MARKER	EA	6
8181000	MOBILIZATION	LS	1
8274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	LS	1
9052000A	SEEDING - WARM SEASON MIXTURES	AC	0.2
9061019	SILT FENCE	LF	200
BRIDGE ITEMS:			
218-99.01	REMOVAL OF EXISTING SUPERSTRUCTURE	LS	1
703-42.08	CLASS B-2 CONCRETE SUPERSTRUCTURE SOLID SLAB	CY	20
703-99.03	KNEE WALL BARRIER CURB	LF	41
704-99.01	SUBSTRUCTURE REPAIRS	LS	1
707-10.00	CONDUIT SYSTEM ON STRUCTURE	LS	1
710-10.00	REINFORCING STEEL (EPOXY COATED)	LB	3010



UNIT PROJECT NO. 08P2119
 COUNTY FRANKLIN
 PROJECT NO. 181E510
 SHEET NO. 2B

DATE	DESCRIPTION



THE POWER HOUSE AT LUMBER STATION
 SCHOENE BERG ROAD
 401 S. 1891 ST. STE. 400
 ST. LOUIS, MO. 63102-2288
 314-531-4321 FAX 314-531-6266
 WWWW.HORNBERGSHIFFRIN.COM
 1000 Lakeside Drive, Suite 1000
 St. Louis, Missouri 63102
 Hornberg Shiffrin
 Expires Date: December 31, 2019

SCHEDULE OF QUANTITIES
 SCHOENE BERG ROAD
 REHABILITATION
 FRANKLIN COUNTY, MISSOURI

MOBILIZATION
 LUMP SUM = 1

CLEARING AND GRUBBING
 LUMP SUM = 1

SEEDING - WARM SEASON MIXTURES
 AREA = 0.2 ACRES

CONTRACTOR FURNISHED SURVEYING AND STAKING
 LUMP SUM = 1

REMOVAL OF IMPROVEMENTS
 LUMP SUM = 1

GRAVEL (A)

PLAN SHEET	SIDE	LOCATION	GRAVEL (A)	REMARKS
3	BOTH	SCHOENE BERG ROAD	53.8 SY	MAINLINE
		TOTAL USE	53.8	
			60	

TEMPORARY EROSION CONTROL

PLAN SHEET	LOCATION	SILT FENCE (LF)	REMARKS
4	SCHOENE BERG ROAD	200	
	TOTALS	200	
	USE	200	

TYPE III OBJECT MARKERS

PLAN SHEET	LOCATION	OM1-3 (18" X 18") (EA)	OM3-1L (12" X 36") (EA)	OM3-1R (12" X 36") (EA)	REMARKS
4	SCHOENE BERG ROAD	1	3	2	
	TOTALS	1	3	2	
	USE	1	3	2	

EARTHWORK

LOCATION	CLASS	EXCAVATION (CY)	REMARKS
SCHOENE BERG ROAD	"A"	10	
TOTAL USE		10	
		10	



DATE: 08/27/19
 SHEET NO: 10
 ROUTE: 10
 COUNTY: FRANKLIN
 JOB NO.:
 CONTRACT NO.:
 PROJECT NO.: 1815510
 IMPROVEMENT:

DESCRIPTION	DATE

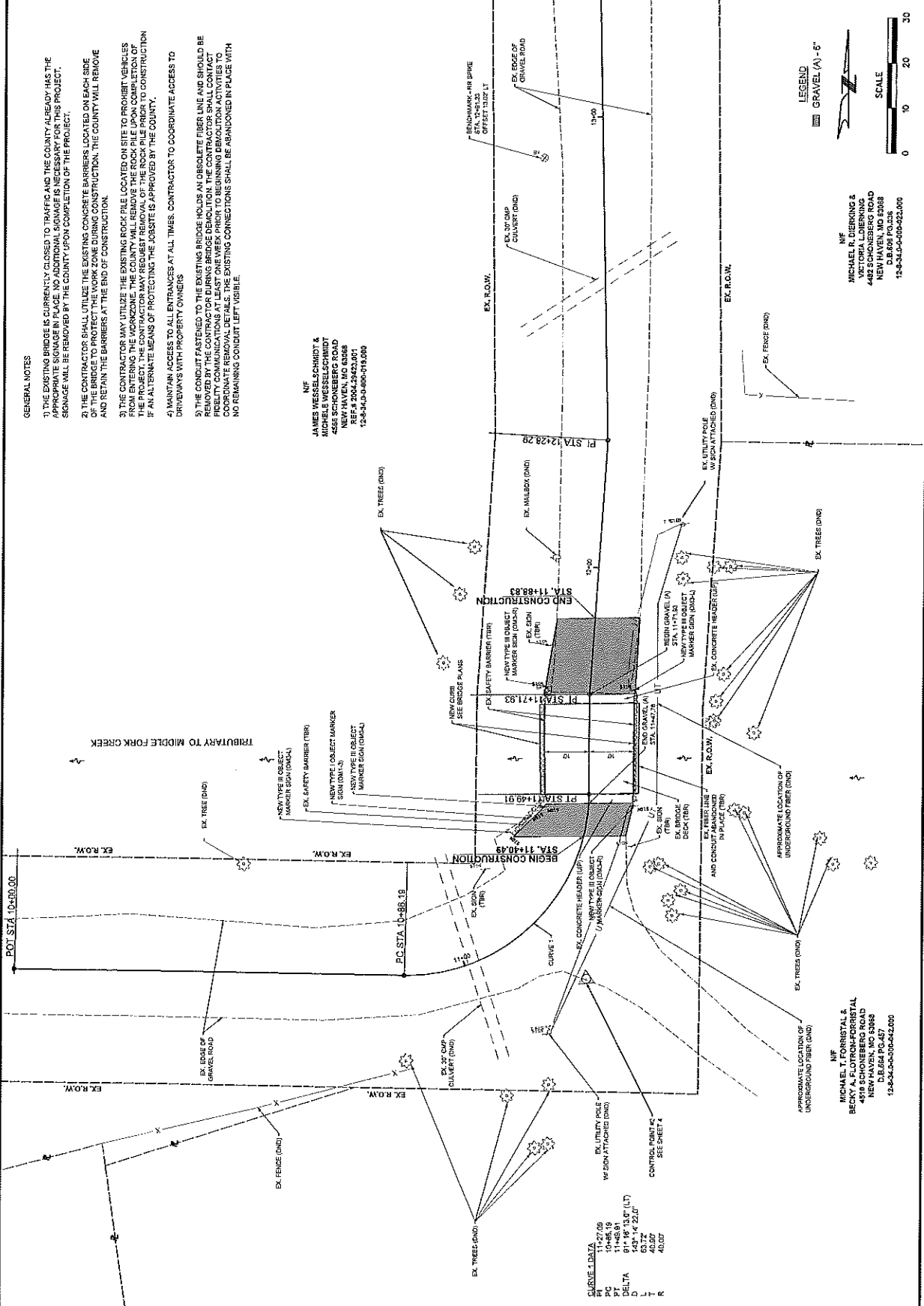


HORNBY SHIFFRIN
 THE POWER HOUSE AT IBERON STATION
 401 S. 10th St., Ste. 100
 IBERON, MO 65038
 314.531.4221 FAX 314.531.6966
 www.hornbyshiffrein.com
 C. Eberlein, P.E., License No. 00559
 Expiration Date: December 31, 2019

**SCHOENBERG ROAD
 BRIDGE REHABILITATION**
 FRANKLIN COUNTY, MISSOURI
 PLAN SHEET

- GENERAL NOTES**
- 1) THE EXISTING BRIDGE IS CURRENTLY CLOSED TO TRAFFIC AND THE COUNTY AGENCY HAS THE APPROPRIATE SIGNAGE IN PLACE. NO ADDITIONAL SIGNAGE IS NECESSARY FOR THIS PROJECT.
 - 2) THE CONTRACTOR SHALL UTILIZE THE EXISTING CONCRETE BARRIERS LOCATED ON EACH SIDE OF THE BRIDGE DURING CONSTRUCTION. THE COUNTY WILL REMOVE AND RETAIN THE BARRIERS AT THE END OF CONSTRUCTION.
 - 3) THE CONTRACTOR MAY UTILIZE THE EXISTING ROCK PILE LOCATED ON SITE TO PROHIBIT VEHICLES FROM ENTERING THE WORKZONE. THE COUNTY WILL REMOVE THE ROCK PILE UPON COMPLETION OF THE BRIDGE REHABILITATION PROJECT. THE COUNTY WILL PROVIDE CONSTRUCTION IF AN ALTERNATE MEANS OF PROTECTING THE JOBSITE IS APPROVED BY THE COUNTY.
 - 4) MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES. CONTRACTOR TO COORDINATE ACCESS TO DRIVEWAYS WITH PROPERTY OWNERS.
 - 5) THE CONDUIT FASTENED TO THE EXISTING BRIDGE HOLDS AN OBSOLETE FIBER LINE AND SHOULD BE REMOVED BY THE CONTRACTOR DURING BRIDGE DEMOLITION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES AT LEAST ONE WEEK PRIOR TO BEGINNING DEMOLITION ACTIVITIES TO IDENTIFY ALL UTILITIES. EXISTING CONNECTIONS SHALL BE ABANDONED IN PLACE WITH NO REMAINING CONDUIT LEFT VISIBLE.

NIF
JAMES WESSELSCHMIDT & MICHELE WESSELSCHMIDT
 4050 S. 11th St., Suite 200
 NEW HAVEN, MO 63068
 REF.# 200.02922.001
 12-8-34-0-0-000-018.000



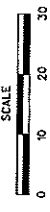
CURVE 1 DATA

PC	10+27.49
PT	10+46.91
PI	11+45.91
DELTA	91° 48' 3.07\" (LT)
D	63.71 4.221'
T	40.97
R	40.07

LEGEND
 █ GRAVEL (A) - 6\"/>

NIF
MICHAEL R. DIERCKING & BECKY A. FLOTROM-FORRISTAL
 4432 SCHOENBERG ROAD
 NEW HAVEN, MO 63068
 D.B.664 PG.457
 12-8-34-00-000-042.000

NIF
MICHAEL T. FORRISTAL & BECKY A. FLOTROM-FORRISTAL
 4432 SCHOENBERG ROAD
 NEW HAVEN, MO 63068
 D.B.664 PG.457
 12-8-34-00-000-042.000





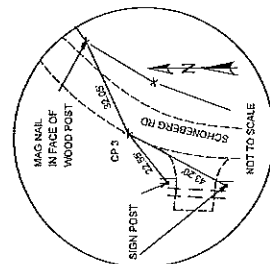
DATE PLOTTED: 09/22/19
 SHEET: 100
 PROJECT NO.: 4
 COUNTY: FRANKLIN
 JOB NO.:
 CONTRACT NO.:
 PROJECT NO.: 1818510
 BRIDGE NO.:

DATE	DESCRIPTION

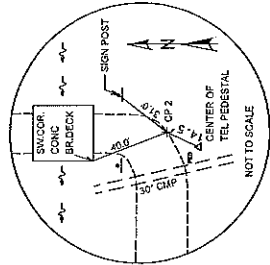


HORNBY SHIFFRIN
 THE POWER HOUSE AT IRON STATION
 401 S. 18th St., Ste. 400
 St. Louis, MO 63103-2298
 314.531.4321 FAX 314.531.6098
 www.hornbyshiff.com
 OFFICE: 314.531.2019
 EASTING DATE: December 31, 2019

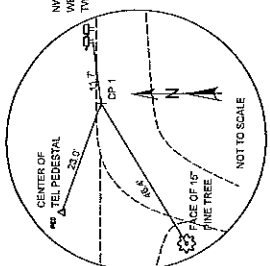
REFERENCE & COORDINATE POINTS
 SCHOENBERG ROAD
 BRIDGE REHABILITATION
 FRANKLIN COUNTY, MISSOURI



CONTROL POINT 3
 N 89°7'3.816"
 E 60°07'3.578"
 EL 717.38
 IRON PIN W/ CAP SET



CONTROL POINT 2
 N 89°00'3.21"
 E 60°06'1.30"
 EL 716.45
 IRON PIN W/ CAP SET
 STA. 11+18.84

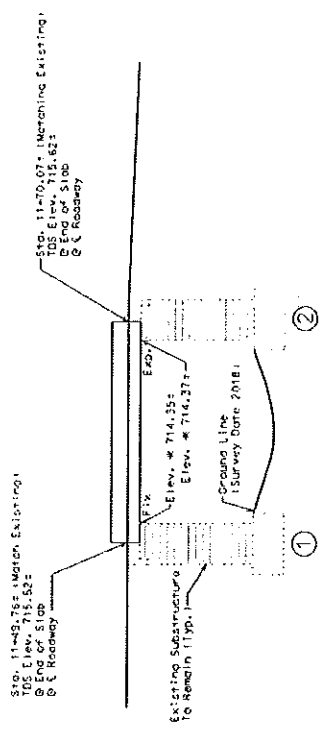


CONTROL POINT 1
 N 91°58'7.500"
 E 60°07'0.274"
 EL 726.03
 IRON PIN W/ CAP SET

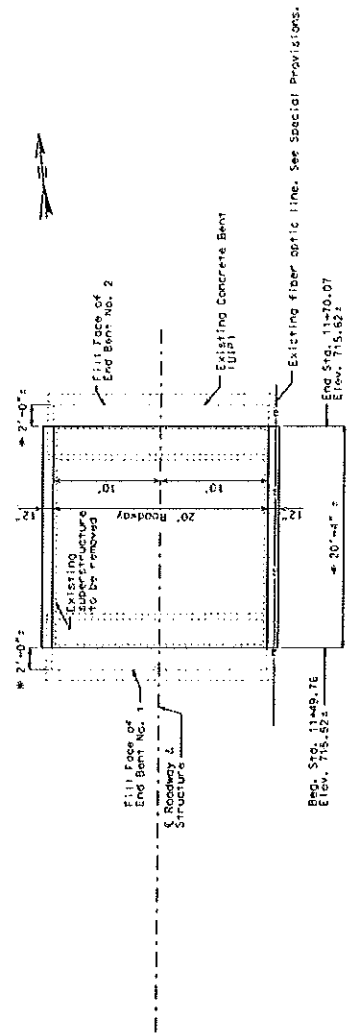
MISSOURI COORDINATE SYSTEM AND ELEVATION: NAD83 MISSOURI STATE PLANE, EAST ZONE, U.S. FOOT, NGVD

SHEET NO.	STATION	LOCATION	COORDINATE POINTS		DESCRIPTION
			NORTHING (FEET)	EASTING (FEET)	
3	10+00.00	SCHOENBERG ROAD	975405.22	604914.19	POT
3	10+86.19	SCHOENBERG ROAD	975395.26	604998.82	PC
3	11+40.49	SCHOENBERG ROAD	975422.21	605042.25	BEGIN PROJECT
3	11+49.91	SCHOENBERG ROAD	975431.41	605044.22	PT
3	11+71.93	SCHOENBERG ROAD	975483.23	605046.25	PI
3	11+88.85	SCHOENBERG ROAD	975470.02	605048.91	END PROJECT
3	12+26.29	SCHOENBERG ROAD	975508.99	605056.11	PI

FRANKLIN COUNTY
 UTP EXISTING SUBSTRUCTURE AND REPLACE
 EXISTING SUPERSTRUCTURE WITH (20') CAST-IN-PLACE SOLID CONCRETE SLAB



GENERAL ELEVATION



PLAN

Notes:
 UTP in use in place
 All stationing is along E. Roadway.
 Plan dimensions are horizontal.
 * Dimensions and elevations shown are based on survey data and field measurements and should not be used for construction purposes. See Special Provisions.
 Existing old work is indicated by light gray lines. New work is indicated by dark gray lines.
 For General Notes, Estimated Quantities & Location Sheet, see Shop No. 2 of 1.

SITE BENCHMARK:
 RAILROAD SPIKE SET IN SOUTH
 FACE OF 20' WALNUT 119' NORTH OF
 BENT. BENT ABUTMENT 12.5' WEST
 FROM CENTERLINE OF ROAD.
 ELEV. 714.00

Designed: JDS
 Detailed: JDS
 Checked: CBF

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 1



PROJECT NO.	822/2019
DATE	MO
COUNTY	FRANKLIN
CITY	BUSSIO
CONTRACT NO.	
DATE	

DATE	DESCRIPTION



FRANKLIN COUNTY
 SCHOENBERG ROAD
 BRIDGE
 REHABILITATION
 GENERAL PLAN
 AND ELEVATION



PROJECT NO.	8010709
MO. DIST.	01
COUNTY	FRANKLIN
CITY	HESSIO
CONTRACT NO.	
SECTION NUMBER	

DATE	DESCRIPTION



FRANKLIN COUNTY
SCHOENBERG BRIDGE
REHABILITATION
GENERAL NOTES

GENERAL NOTES:
Design and specifications shall be in accordance with the 2011 Missouri Bridge Design Specifications (8th Edition) and 2013 Missouri Revisions.

Design Loading:
Vehicle: HS-20
W.S./S.C. P1, Future Wearing Surface

Design Unit Stresses:
Class B-2 Concrete (Superstructure): $f'c = 4,000 \text{ psi}$
Class B-1 Concrete (for knee-wall Barrier curb): $f'c = 4,000 \text{ psi}$
Reinforcing Steel (Grade 60): $f_y = 60,000 \text{ psi}$

Reinforcing Steel:
All reinforcement shall be 1/2" unless otherwise shown.

All reinforcing steel is to be epoxy coated.

Miscellaneous:
Existing plans are not available.
Contractor shall field verify all dimensions and field before starting new work on. The cost for this is incidental to other items. See Special Provisions.

Construction Specifications:
The 2012 Edition and Supplemental Revisions of the Missouri Department of Transportation Highway Construction and the Job Special Provisions shall govern.

Reinforcement:
The contractor shall use one of the qualified resin anchor systems in accordance with Sec. 1023.

Cost of furnishing and installing the resin anchor systems, complete with all materials and labor for Class B-2 Concrete (Superstructure) Slab shall be included.

Remarks:
Bridge deck surface may be finished with a vibrator screed.

Joint filler:
All joint filler shall be in accordance with Sec 1027 for preformed sponge rubber expansion and partition joint fillers, except as noted.

Traffic Control:
Be placed to all traffic during demolition and construction. See Roadway Plans and Special Provisions.

Estimated Quantities

Item	Substr.	Superstr.	Total
Removal of Existing Superstructure	1.00	0.00	1.00
Class B-2 Concrete (Superstructure) Solid Slab:			
Concrete	20.0	0.0	20.0
Formwork	41	0	41
Substructure Repairs	1	0	1
Concrete (Superstructure) Slab			
Concrete	3.010	0.000	3.010
Formwork			
Reinforcing Steel (Epoxy Coated)			
Miscellaneous			
Substructure Repairs			
Traffic Control			
Joint Filler			
Reinforcing Steel			
Miscellaneous			
Substructure Repairs			
Traffic Control			
Joint Filler			
Reinforcing Steel			
Miscellaneous			
Substructure Repairs			
Traffic Control			
Joint Filler			
Reinforcing Steel			
Miscellaneous			



LOCATION SKETCH

Designers: JDS
Detailer: JDS
Checked: CBK

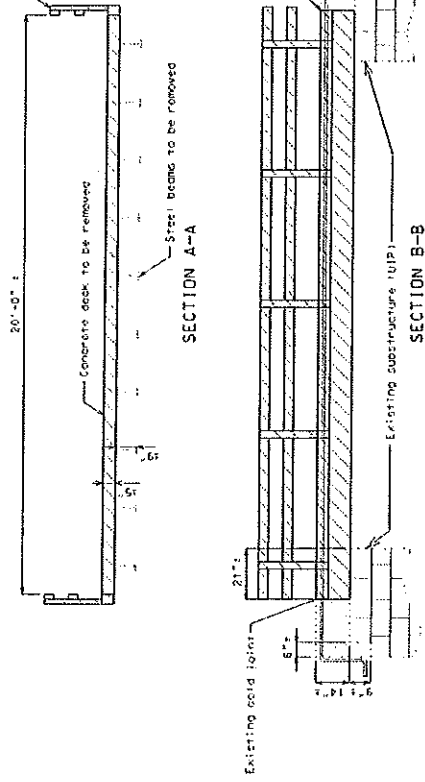
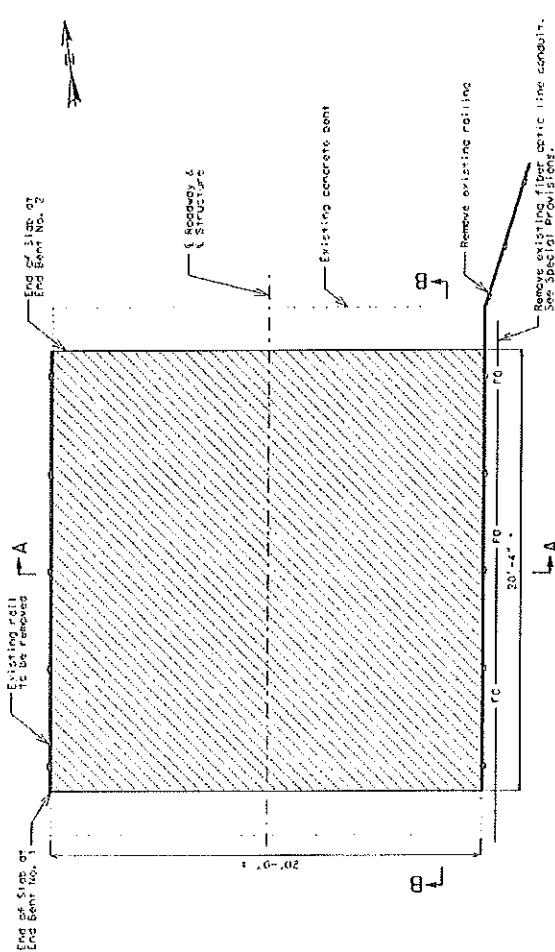


PROJECT NO. 83/2018
 DATE 12/12/18
 CONTRACTOR FRANKLIN
 JOB NO. 1816510
 CONTRACT NO.

EXISTE	DESCRIPTION

SHIFFRIN
 425 WEST 127TH STREET
 NEW YORK, NY 10030
 TEL: (718) 524-7800
 FAX: (718) 524-7801
 WWW.SHIFFRIN.COM

FRANKLIN COUNTY
SCHOENBERG ROAD
BRIDGE
REHABILITATION
DEMOLITION PLAN



Notes:
 Any existing anchor bolts shall be removed or cut and existing beam seat to be used in place.
 Any items to be removed shall be completely removed to the next unit price for removal of existing substructure.

[Symbol] Denotes concrete, steel, and barrier rail removal

Designer: JDS
 Checker: JDS
 Checker: CBW

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 7



PROJECT NO. 10100000000000000000
 DATE 8/22/09
 COUNTY FRANKLIN
 JOB NO. 015510
 CONTRACT NO. 10100000000000000000
 CONTRACTOR
 LICENSE/REGISTRATION NO.

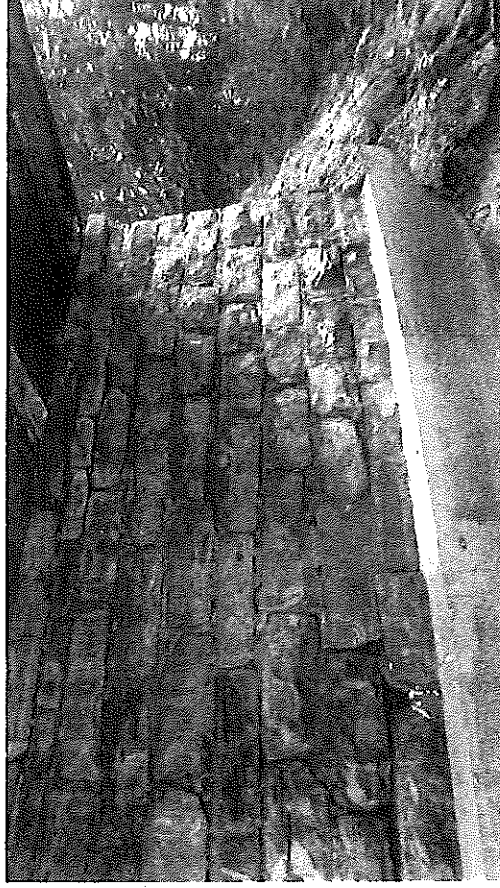
DATE	ISSUE FROM



FRANKLIN COUNTY
SCHOENBERG ROAD
BRIDGE
REHABILITATION
END BENT REPAIRS



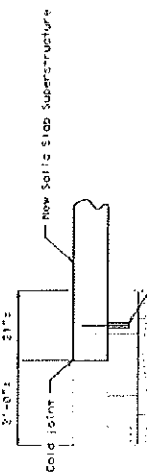
END BENT NO. 1



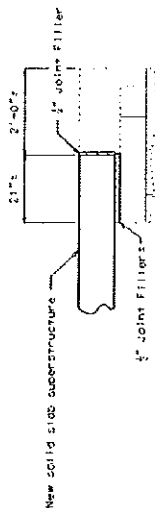
END BENT NO. 2

NOTES:
 1. A depth level surface shall be provided at End Bent No. 2. If the top of beam cap where joint filler will be installed. See End Bent No. 2 detail.
 2. Mortar mix to be used must be submitted for the stone present in the existing substructure. See Special Provisions.
 3. Mortar repairs are to be completed only when existing substructure is in good condition permit masonry work to be performed according to product manufacturer's written instructions and specified requirements.
 4. Rock out and reseat all loose joints. Remove mortar from joints to full depth of stones on both solid masonry substructure. Cure mortar by maintaining a thoroughly saturated surface under 72 consecutive hours after new mortar is placed or as recommended by manufacturer.

Approximate quantity of substructure mortar repairs:
 352 square feet
 (For informational purposes only)



END BENT NO. 1 DETAIL



END BENT NO. 2 DETAIL

Designer: JDS
 Detailer: JDS
 Checker: CBW

Note: This drawing is not to scale. Follow dimensions.

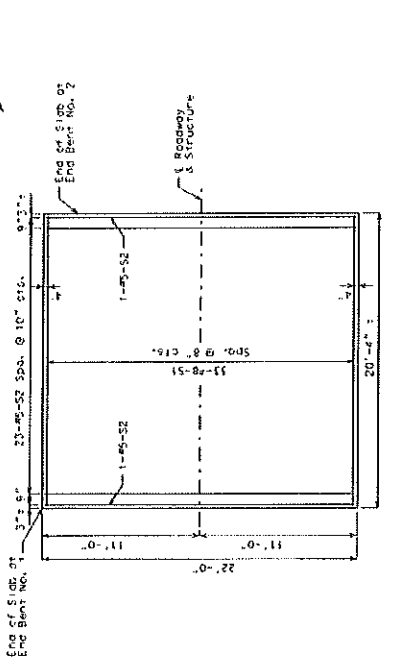
Sheet No. 4 of 7



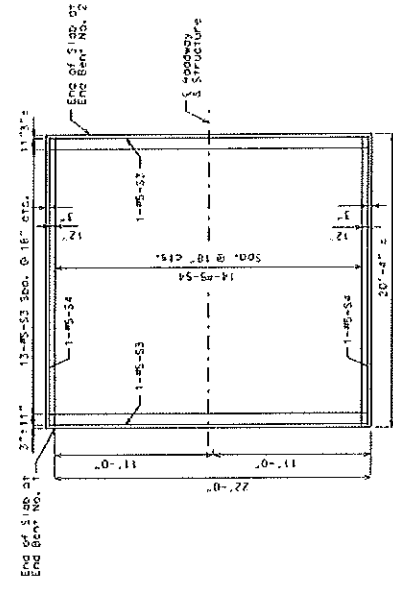
DATE	DESCRIPTION

HORNBER
 ENGINEERS ARCHITECTS INTERIORS
 1234 SOUTH MARKET STREET
 ST. LOUIS, MISSOURI 63102
 PHONE (314) 555-1234
 FAX (314) 555-5678
 WWW.HORNBER.COM

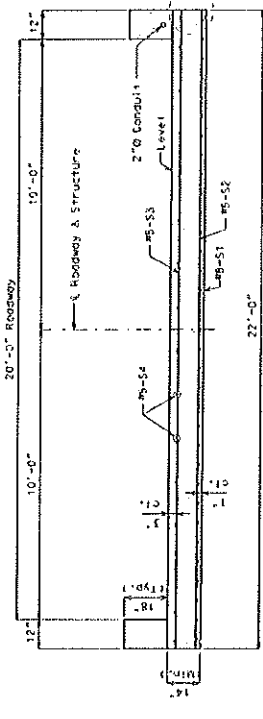
FRANKLIN COUNTY
SCORNBURG ROAD
BRIDGE
REHABILITATION
SLAB DETAILS



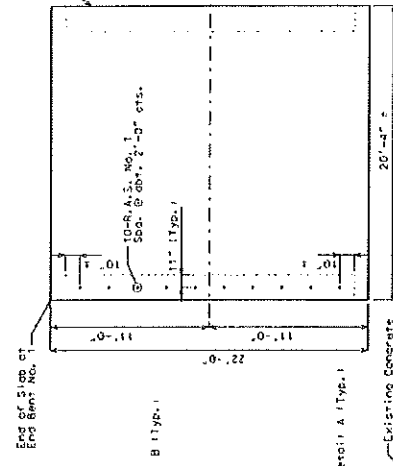
PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT



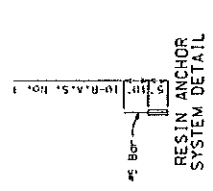
PLAN OF SLAB SHOWING TOP REINFORCEMENT



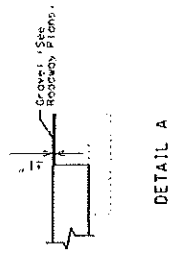
TYPICAL SECTION THRU SLAB



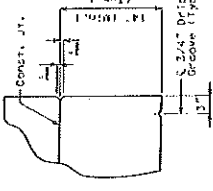
PLAN OF SLAB SHOWING RESIN ANCHOR SYSTEM



RESIN ANCHOR SYSTEM DETAIL



DETAIL A



DETAIL B

Notes:
 Longitudinal dimensions are horizontal.
 The contractor shall be responsible for ordering and securing the appropriate epoxy resin and hardener for the resin anchor system. The contractor shall be responsible for the installation of the resin anchor system. The contractor shall be responsible for the removal and disposal of the resin anchor system. The contractor shall be responsible for the repair and finishing of the concrete. The contractor shall be responsible for the curing of the concrete. The contractor shall be responsible for the protection of the existing structures. The contractor shall be responsible for the safety of the workers and the public. The contractor shall be responsible for the environmental protection. The contractor shall be responsible for the quality control of the work. The contractor shall be responsible for the record keeping of the work. The contractor shall be responsible for the communication with the project manager. The contractor shall be responsible for the coordination of the work. The contractor shall be responsible for the scheduling of the work. The contractor shall be responsible for the budgeting of the work. The contractor shall be responsible for the procurement of the materials. The contractor shall be responsible for the transportation of the materials. The contractor shall be responsible for the storage of the materials. The contractor shall be responsible for the handling of the materials. The contractor shall be responsible for the disposal of the materials. The contractor shall be responsible for the safety of the workers and the public. The contractor shall be responsible for the environmental protection. The contractor shall be responsible for the quality control of the work. The contractor shall be responsible for the record keeping of the work. The contractor shall be responsible for the communication with the project manager. The contractor shall be responsible for the coordination of the work. The contractor shall be responsible for the scheduling of the work. The contractor shall be responsible for the budgeting of the work. The contractor shall be responsible for the procurement of the materials. The contractor shall be responsible for the transportation of the materials. The contractor shall be responsible for the storage of the materials. The contractor shall be responsible for the handling of the materials. The contractor shall be responsible for the disposal of the materials.
 R.A.S. # Resin Anchor System

Notes: This drawing is not to scale. Follow dimensions.
 (Reinforcing steel not shown for clarity)

Designed: JMS
 Detail: JMS
 Checked: CSB

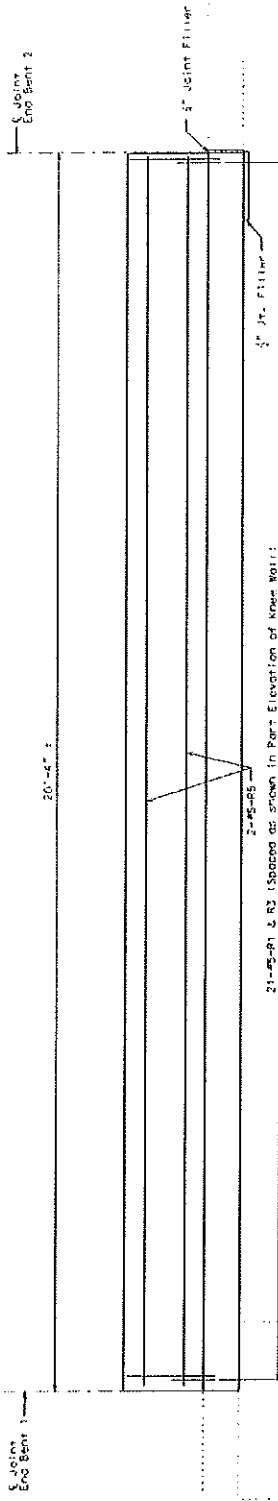


PROJECT NO.	8225016
STATE	MD
COUNTY	BD
DISTRICT	FRANKLIN
SECTION	1B1510
CONTRACT ID	
LEAD ENGINEER	

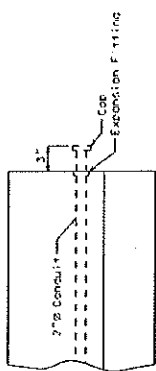
DATE	DESCRIPTION



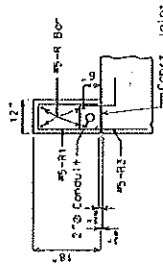
FRANKLIN COUNTY
SCHOENBERG ROAD
REHABILITATION
BRIDGE
BARRIER CURB
DETAILS OF KNEE WALL



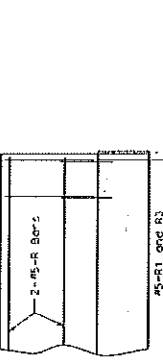
SPAN (1-2)
ELEVATION OF KNEE WALL
(Left kneewall shown, right kneewall similar)
Longitudinal dimensions are horizontal.



TYPICAL DETAIL OF CONDUIT SYSTEM ON STRUCTURE AT END BENTS



SECTION A-A
The cross-sectional area above the slab is 15.58 sq. ft.



PART ELEVATION OF KNEE WALL

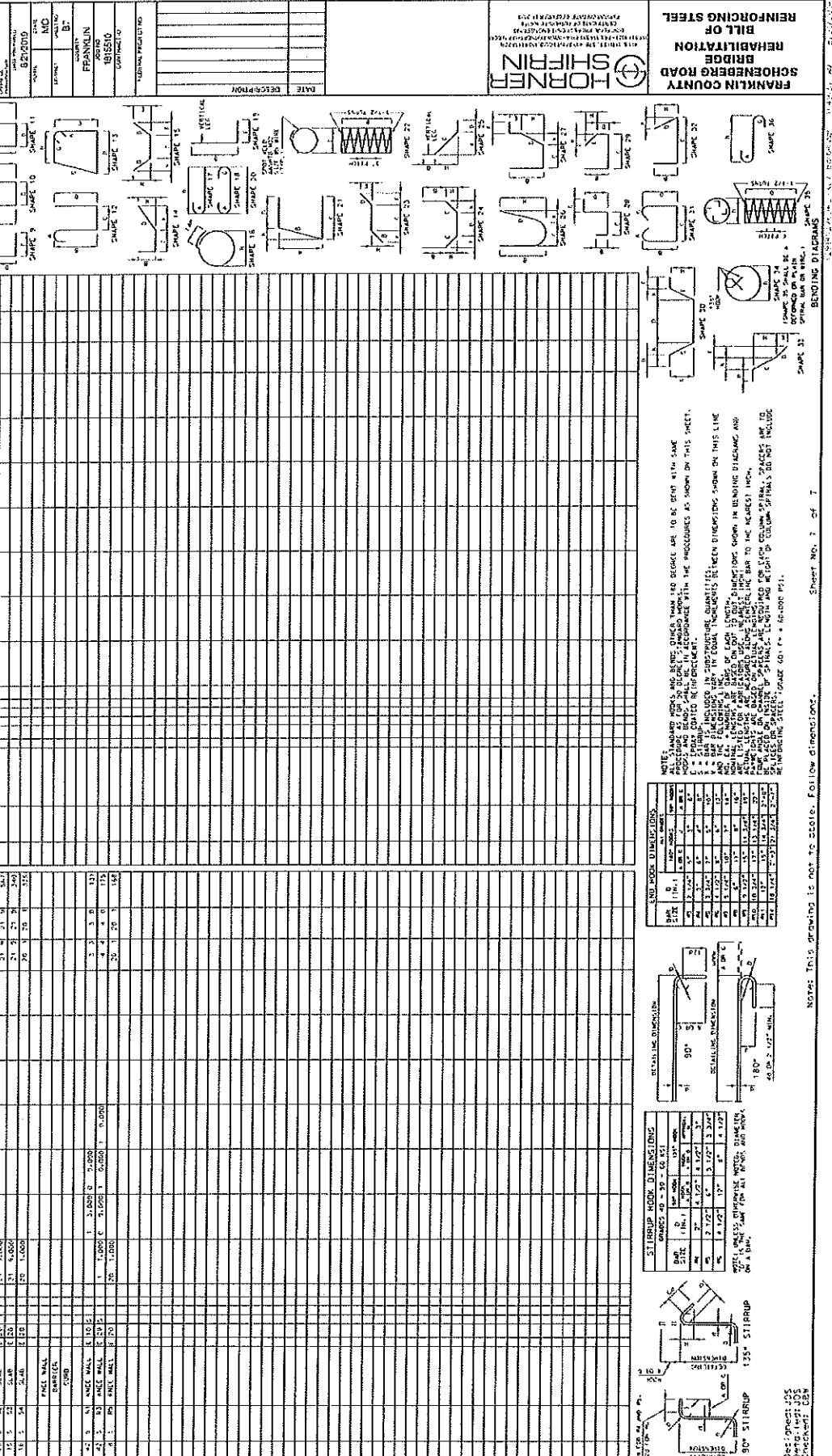
General Notes

- Top of knee wall shall be built parallel to grade.
- All exposed edges of knee wall shall be finished with a 1/2 inch radius and a 2/8 inch bevel unless otherwise noted.
- Reinforcement shall be placed in accordance with the drawing and shall be completely covered with 1 inch concrete.
- Concrete in the knee wall barrier curb shall be Class B-1.
- Measurements of knee wall barrier curb shall be measured from the outside top of slab from end of slab to end of slab.
- Concrete traffic barrier railmeasures shall be measured from the knee wall barrier curb as shown on Missouri Standard Plans 67.1b and in accordance with the notes thereon.
- Traffic shall have retroreflective sheeting or paint on the barrier curb and shall be completely covered by the barrier curb.
- Joint reinforcing steel in field shall be placed in one section.
- Conduit shall be rigid nonmetallic conduit (RNC) with a minimum cover in concrete. Each section of conduit shall be marked with the following: Laboratory full label.
- Install conduit in east (right) side barrier only.
- Reinforcement for forming and installing Conduit System complete in place, will be fabricated and installed in accordance with the following: Lab. full label for Conduit System on structure.
- Drainage shall be provided at low bents or other critical locations of knee wall. All conduits shall be sloped to drain where applicable.

Designed by JDC
Checked by JDC
Checked by JDC

BILL OF REINFORCING STEEL

NO. REV'D.	MARK NO.	LOCATION	DIMENSIONS											WEIGHT	
			DIMENSIONS												
			B	C	D	E	F	H	K	REINFORCEMENT LENGTH ACTUAL	REINFORCEMENT LENGTH				
1	SLAB														
2	FRONT WALL														
3	FRONT WALL														
4	FRONT WALL														
5	FRONT WALL														
6	FRONT WALL														
7	FRONT WALL														
8	FRONT WALL														
9	FRONT WALL														
10	FRONT WALL														
11	FRONT WALL														
12	FRONT WALL														
13	FRONT WALL														
14	FRONT WALL														
15	FRONT WALL														
16	FRONT WALL														
17	FRONT WALL														
18	FRONT WALL														
19	FRONT WALL														
20	FRONT WALL														
21	FRONT WALL														
22	FRONT WALL														
23	FRONT WALL														
24	FRONT WALL														
25	FRONT WALL														
26	FRONT WALL														
27	FRONT WALL														
28	FRONT WALL														
29	FRONT WALL														
30	FRONT WALL														
31	FRONT WALL														
32	FRONT WALL														
33	FRONT WALL														
34	FRONT WALL														
35	FRONT WALL														
36	FRONT WALL														
37	FRONT WALL														
38	FRONT WALL														
39	FRONT WALL														
40	FRONT WALL														
41	FRONT WALL														
42	FRONT WALL														
43	FRONT WALL														
44	FRONT WALL														
45	FRONT WALL														
46	FRONT WALL														
47	FRONT WALL														
48	FRONT WALL														
49	FRONT WALL														
50	FRONT WALL														
51	FRONT WALL														
52	FRONT WALL														
53	FRONT WALL														
54	FRONT WALL														
55	FRONT WALL														
56	FRONT WALL														
57	FRONT WALL														
58	FRONT WALL														
59	FRONT WALL														
60	FRONT WALL														
61	FRONT WALL														
62	FRONT WALL														
63	FRONT WALL														
64	FRONT WALL														
65	FRONT WALL														
66	FRONT WALL														
67	FRONT WALL														
68	FRONT WALL														
69	FRONT WALL														
70	FRONT WALL														
71	FRONT WALL														
72	FRONT WALL														
73	FRONT WALL														
74	FRONT WALL														
75	FRONT WALL														
76	FRONT WALL														
77	FRONT WALL														
78	FRONT WALL														
79	FRONT WALL														
80	FRONT WALL														
81	FRONT WALL														
82	FRONT WALL														
83	FRONT WALL														
84	FRONT WALL														
85	FRONT WALL														
86	FRONT WALL														
87	FRONT WALL														
88	FRONT WALL														
89	FRONT WALL														
90	FRONT WALL														
91	FRONT WALL														
92	FRONT WALL														
93	FRONT WALL														
94	FRONT WALL														
95	FRONT WALL														
96	FRONT WALL														
97	FRONT WALL														
98	FRONT WALL														
99	FRONT WALL														
100	FRONT WALL														



FRANKLIN COUNTY
SCHOENBERG ROAD
BRIDGE
REHABILITATION
BILL OF
REINFORCING STEEL

HORNER
PROFESSIONAL ENGINEERS
2015 SOUTH 4TH AVENUE, SUITE 200
MOUNTAIN VIEW, COLORADO 80558
PHONE: (303) 399-1100
FAX: (303) 399-1101
WWW.HORNERENR.COM

NOTE: STANDARD WORKS AND BEAMS OTHER THAN 20 LB GALV ARE TO BE ORDER WITH SAME
DIMENSIONS AS SHOWN IN THIS SHEET. APPROVED WEIGHTS
L = FROM CENTER TO CENTER WITH THE DIMENSIONS AS SHOWN ON THIS SHEET.
L = FROM EDGE TO EDGE WITH THE DIMENSIONS AS SHOWN ON THIS SHEET.
1 = AS SHOWN IN THIS SHEET.
2 = AS SHOWN IN THIS SHEET.
3 = AS SHOWN IN THIS SHEET.
4 = AS SHOWN IN THIS SHEET.
5 = AS SHOWN IN THIS SHEET.
6 = AS SHOWN IN THIS SHEET.
7 = AS SHOWN IN THIS SHEET.
8 = AS SHOWN IN THIS SHEET.
9 = AS SHOWN IN THIS SHEET.
10 = AS SHOWN IN THIS SHEET.
11 = AS SHOWN IN THIS SHEET.
12 = AS SHOWN IN THIS SHEET.
13 = AS SHOWN IN THIS SHEET.
14 = AS SHOWN IN THIS SHEET.
15 = AS SHOWN IN THIS SHEET.
16 = AS SHOWN IN THIS SHEET.
17 = AS SHOWN IN THIS SHEET.
18 = AS SHOWN IN THIS SHEET.
19 = AS SHOWN IN THIS SHEET.
20 = AS SHOWN IN THIS SHEET.
21 = AS SHOWN IN THIS SHEET.
22 = AS SHOWN IN THIS SHEET.
23 = AS SHOWN IN THIS SHEET.
24 = AS SHOWN IN THIS SHEET.
25 = AS SHOWN IN THIS SHEET.
26 = AS SHOWN IN THIS SHEET.
27 = AS SHOWN IN THIS SHEET.
28 = AS SHOWN IN THIS SHEET.
29 = AS SHOWN IN THIS SHEET.
30 = AS SHOWN IN THIS SHEET.
31 = AS SHOWN IN THIS SHEET.
32 = AS SHOWN IN THIS SHEET.
33 = AS SHOWN IN THIS SHEET.
34 = AS SHOWN IN THIS SHEET.
35 = AS SHOWN IN THIS SHEET.
36 = AS SHOWN IN THIS SHEET.

DESIGNED BY JCS
DRAWN BY JCS
CHECKED BY JCS

Notes: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 7