



**COMPASS**  
INFRASTRUCTURE GROUP

JOB:	10079	PID:	118536
CALCULATED BY:	CDH	DATE:	11/16/2025
CHECKED BY:	CCJ	DATE:	11/18/2025
PROJECT:	TRU-534-22.36		
DESCRIPTION:	STRUCTURES ESTIMATED QUANTITIES		
	SFN: 7807694		

ITEM-EXTENSION

DESCRIPTION

202E11203

PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

TOTAL (ABUT)	
TOTAL (PIER)	
TOTAL (SUPER)	
TOTAL (GENERAL)	LS
<b>TOTAL</b>	<b>LS</b>

202E22900

APPROACH SLAB REMOVED

EX REAR APPROACH SLAB

WIDTH	40.03	FT
LENGTH	15.09	FT
AREA	604.07	SF

EX FORWARD APPROACH SLAB

WIDTH	40.03	FT
LENGTH	15.09	FT
AREA	604.07	SF
TOTAL AREA	134.24	SY

TOTAL (ABUT)		SY
TOTAL (PIER)		SY
TOTAL (SUPER)		SY
TOTAL (GENERAL)	134	SY
<b>TOTAL</b>	<b>134</b>	<b>SY</b>

202E23500

WEARING COURSE REMOVED

EX ASPHALT WEARING COURSE (APPROACH SLAB)

WIDTH	40.03	FT
LENGTH (REAR AS & FORWARD AS)	30.18	FT
AREA	1208.1	SF

EX ASPHALT WEARING COURSE (BRIDGE LIMITS)

WIDTH	40.03	FT
LENGTH (BRIDGE LIMITS)	49.90	FT
AREA	1997.4	SF

TOTAL (ABUT)		SY
TOTAL (PIER)		SY
TOTAL (SUPER)	222	SY



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TOTAL (GENERAL)	134	SY
<b>TOTAL</b>	<b>356</b>	<b>SY</b>

509E25000      UNCOATED STEEL REINFORCEMENT

ABUTMENT BAR WEIGHT	131	LB
SUPERSTRUCTURE BAR WEIGHT	0	LB
 TOTAL (ABUT)	131	LB
TOTAL (PIER)		LB
TOTAL (SUPER)	0	LB
TOTAL (GENERAL)		LB
<b>TOTAL</b>	<b>131</b>	<b>LB</b>

509E10001      EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN

ABUTMENT BAR WEIGHT	0	LB
SUPERSTRUCTURE BAR WEIGHT	8505	LB
 TOTAL (ABUT)	0	LB
TOTAL (PIER)		LB
TOTAL (SUPER)	8505	LB
TOTAL (GENERAL)		LB
<b>TOTAL</b>	<b>8505</b>	<b>LB</b>

510E10000      DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT

REAR ABUTMENT WINGWALL BARS (1 DOWEL/BAR)	24	EACH
FORWARD ABUTMENT WINGWALL BARS (1 DOWEL/BAR)	24	EACH
 TOTAL (ABUT)	48	EACH
TOTAL (PIER)		EACH
TOTAL (SUPER)		EACH
TOTAL (GENERAL)		EACH
<b>TOTAL</b>	<b>48</b>	<b>EACH</b>

511E31611      CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN

UNIFORM DECK THICKNESS		
DECK WIDTH	40	FT
DECK LENGTH	51.85	FT
DECK THICKNESS	0.5	FT
DECK VOLUME	38.41	CY



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VARIABLE HAUNCH

AVERAGE HAUNCH THICKNESS (RA)	0.121	FT
AVERAGE HAUNCH THICKNESS (MIDSPAN)	0.021	FT
AVERAGE HAUNCH THICKNESS (FA)	0.080	FT
AVERAGE HAUNCH THICKNESS (WEIGHTED 25-50-25)	0.061	FT
DECK WIDTH	40	FT
DECK LENGTH	51.85	FT
HAUNCH VOLUME	4.69	CY

ABUTMENT DIAPHRAGMS

DIAPHRAGM X-SECT AREA	1.75	SF
DIAPHRAGM LENGTH	41.42	FT
# DIAPHRAGMS	2.00	
DIAPHRAGM VOLUME	5.37	CY

TOTAL (ABUT)		CY
TOTAL (PIER)		CY
TOTAL (SUPER)	49	CY
TOTAL (GENERAL)		CY
<b>TOTAL</b>	<b>49</b>	<b>CY</b>

511E45710

CLASS QC1 CONCRETE, ABUTMENT

REAR LEFT WINGWALL

WALL THICKNESS	1	FT
TOP WALL LENGTH (LONG)	3.094	FT
TOP WALL TAPER LENGTH (SHORT)	2.833	FT
TOP TAPER LENGTH	0.917	FT
TOP WALL ELEV.	835.94	FT
BOTTOM ELEV.	833.78	FT
TAPER END ELEV.	835.48	FT
WINGWALL VOLUME	0.274	CY

REAR RIGHT WINGWALL

WALL THICKNESS	1	FT
TOP WALL LENGTH (LONG)	2.833	FT
TOP WALL TAPER LENGTH (SHORT)	2.563	FT
TOP TAPER LENGTH	0.917	FT
TOP WALL ELEV.	835.91	FT
BOTTOM ELEV.	833.77	FT
TAPER END ELEV.	835.45	FT
WINGWALL VOLUME	0.250	CY

FORWARD LEFT WINGWALL



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WALL THICKNESS	1	FT
TOP WALL LENGTH (LONG)	3.094	FT
TOP WALL TAPER LENGTH (SHORT)	2.833	FT
TOP TAPER LENGTH	0.917	FT
TOP WALL ELEV.	835.77	FT
BOTTOM ELEV.	833.67	FT
TAPER END ELEV.	835.31	FT
WINGWALL VOLUME	0.266	CY

FORWARD RIGHT WINGWALL

WALL THICKNESS	1	FT
TOP WALL LENGTH (LONG)	2.833	FT
TOP WALL TAPER LENGTH (SHORT)	2.563	FT
TOP TAPER LENGTH	0.917	FT
TOP WALL ELEV.	835.8	FT
BOTTOM ELEV.	833.69	FT
TAPER END ELEV.	835.34	FT
WINGWALL VOLUME	0.247	CY

TOTAL (ABUT)	1	CY
TOTAL (PIER)		CY
TOTAL (SUPER)		CY
TOTAL (GENERAL)		CY
<b>TOTAL</b>	<b>1</b>	<b>CY</b>

512E10100

SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

REAR LEFT WINGWALL (RESEAL FULL WINGWALL LIMITS)

WALL THICKNESS	1	FT
BACK FACE EXPOSED HEIGHT	0.5	FT
TOP WALL LENGTH (FRONT)	3.094	FT
TOP WALL TAPER LENGTH (BACK)	2.833	FT
TOP TAPER LENGTH	3.728	FT
TOP WALL ELEV.	835.94	FT
BOTTOM ELEV.	833.78	FT
TAPER END ELEV.	834.14	FT
GROUND LINE ELEVATION	832.61	FT

BACK FACE AREA	3.28	SF
TOP FACE AREA	6.69	SF
FRONT FACE AREA	19.34	SF

REAR BREASTWALL

BEAM SEAT LEFT ELEV.	833.78	FT
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BEAM SEAT CROWN ELEV.	834.10	FT
BEAM SEAT RIGHT ELEV.	833.77	FT
GROUND ELEV.	832.61	FT
BEAM SEAT WIDTH	1.25	FT
BEAM SEAT LENGTH	41.42	FT

FRONT FACE AREA	54.84	SF
SEAT AREA	51.77	SF

REAR RIGHT WINGWALL (RESEAL FULL WINGWALL LIMITS)

WALL THICKNESS	1	FT
BACK FACE EXPOSED HEIGHT	0.5	FT
TOP WALL LENGTH (FRONT)	2.563	FT
TOP WALL TAPER LENGTH (BACK)	2.833	FT
TOP TAPER LENGTH	3.728	FT
TOP WALL ELEV.	835.91	FT
BOTTOM ELEV.	833.77	FT
TAPER END ELEV.	834.11	FT
GROUND LINE ELEVATION	832.61	FT

BACK FACE AREA	3.28	SF
TOP FACE AREA	6.43	SF
FRONT FACE AREA	17.38	SF

REAR ABUTMENT SUBTOTAL	163.02	SF
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FORWARD LEFT WINGWALL (RESEAL FULL WINGWALL LIMITS)

WALL THICKNESS	1	FT
BACK FACE EXPOSED HEIGHT	0.5	FT
TOP WALL LENGTH (FRONT)	3.094	FT
TOP WALL TAPER LENGTH (BACK)	2.833	FT
TOP TAPER LENGTH	3.728	FT
TOP WALL ELEV.	835.77	FT
BOTTOM ELEV.	833.67	FT
TAPER END ELEV.	834.02	FT
GROUND LINE ELEVATION	832.50	FT

BACK FACE AREA	3.28	SF
TOP FACE AREA	6.69	SF
FRONT FACE AREA	19.02	SF

FORWARD BREASTWALL

BEAM SEAT LEFT ELEV.	833.67	FT
BEAM SEAT CROWN ELEV.	834.00	FT



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BEAM SEAT RIGHT ELEV.	833.69	FT
GROUND ELEV.	832.50	FT
BEAM SEAT WIDTH	1.25	FT
BEAM SEAT LENGTH	41.42	FT
FRONT FACE AREA	55.36	SF
SEAT AREA	51.77	SF

FORWARD RIGHT WINGWALL (RESEAL FULL WINGWALL LIMITS)

WALL THICKNESS	1	FT
BACK FACE EXPOSED HEIGHT	0.5	FT
TOP WALL LENGTH (FRONT)	2.563	FT
TOP WALL TAPER LENGTH (BACK)	2.833	FT
TOP TAPER LENGTH	3.728	FT
TOP WALL ELEV.	835.8	FT
BOTTOM ELEV.	833.69	FT
TAPER END ELEV.	834.05	FT
GROUND LINE ELEVATION	832.50	FT
BACK FACE AREA	3.28	SF
TOP FACE AREA	6.43	SF
FRONT FACE AREA	17.48	SF

FORWARD ABUTMENT SUBTOTAL 163.31 SF

SUPERSTRUCTURE (DECK EGDES)

DECK EDGE PERIMETER	2.48	FT
DECK EDGE LENGTH	49.78	FT
# SIDES	2.00	EACH
DECK EDGE AREA	246.83	SF

TOTAL (ABUT)	37	SY
TOTAL (PIER)		SY
TOTAL (SUPER)	28	SY
TOTAL (GENERAL)		SY
<b>TOTAL</b>	<b>65</b>	<b>SY</b>

512E10600

CONCRETE REPAIR BY EPOXY INJECTION

TOTAL LENGTH	40.00	FT
TOTAL (ABUT)	40	FT
TOTAL (PIER)		FT
TOTAL (SUPER)		FT



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TOTAL (GENERAL)		FT
<b>TOTAL</b>	<b>40</b>	FT

512E33000

TYPE 2 WATERPROOFING

@ EACH WINGWALL CONST. JOINT

CONST. JOINT LENGTH	3.333	FT
WATERPROOFING WIDTH	3	FT
# WINGWALLS	4	
TOTAL AREA	4.44	SY

TOTAL (ABUT)	3	SY
TOTAL (PIER)		SY
TOTAL (SUPER)		SY
TOTAL (GENERAL)		SY
<b>TOTAL</b>	<b>3</b>	SY

512E74000

REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES

SUBSTRUCTURE SEALING AREA	36.26	SY
SUBTRACT NEW CONCRETE AREA	2.97	SY

TOTAL (ABUT)	35	SY
TOTAL (PIER)		SY
TOTAL (SUPER)		SY
TOTAL (GENERAL)		SY
<b>TOTAL</b>	<b>35</b>	SY

515E12030

PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48 (49.78' LENG

# BEAMS	10	EACH
TOTAL (ABUT)		EACH
TOTAL (PIER)		EACH
TOTAL (SUPER)	10	EACH
TOTAL (GENERAL)		EACH
<b>TOTAL</b>	<b>10</b>	EACH

516E13900

2" PREFORMED EXPANSION JOINT FILLER

REAR ABUTMENT DIAPHRAGM JOINTS

LEFT JOINT HEIGHT	2.16	FT
RIGHT JOINT HEIGHT	2.14	FT
JOINT LENGTH	1.04	FT



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TOTAL AREA	4.45	SF
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FORWARD ABUTMENT DIAPHRAGM JOINTS

LEFT JOINT HEIGHT	2.1	FT
RIGHT JOINT HEIGHT	2.11	FT
JOINT LENGTH	1.04	FT
TOTAL AREA	4.36	SF

TOTAL (ABUT)	9	SF
TOTAL (PIER)		SF
TOTAL (SUPER)		SF
TOTAL (GENERAL)		SF
<b>TOTAL</b>	<b>9</b>	<b>SF</b>

516E14014

INTEGRAL ABUTMENT EXPANSION JOINT SEAL

REAR ABUTMENT LENGTH	46.11	FT
FORWARD ABUTMENT LENGTH	46.11	FT
TOTAL (ABUT)	93	FT
TOTAL (PIER)		FT
TOTAL (SUPER)		FT
TOTAL (GENERAL)		FT
<b>TOTAL</b>	<b>93</b>	<b>FT</b>

516E41100

1/8" PREFORMED BEARING PAD, TYPE CDP

# BEAMS	10.00	EACH
2 PER BEAM	2.00	EACH
TOTAL (ABUT)	20	EACH
TOTAL (PIER)		EACH
TOTAL (SUPER)		EACH
TOTAL (GENERAL)		EACH
<b>TOTAL</b>	<b>20</b>	<b>EACH</b>

516E43100

ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (8"x10"x1.334")

# BEAMS	10	EACH
#BRG/BEAM (BOTH SIDES)	4	EACH
SUBTOTAL	40	EACH
TOTAL (ABUT)	40	EACH
TOTAL (PIER)		EACH





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TOTAL (SUPER)		EACH
TOTAL (GENERAL)		EACH
<b>TOTAL</b>	<b>40</b>	<b>EACH</b>

517E70100

RAILING (THREE STEEL TUBE BRIDGE RAILING)

# POSTS	6	
POST SPACING	8	FT
END DISTANCE (EACH END)	8	FT
# SIDES	2	
TOTAL LENGTH	112	FT
TOTAL (ABUT)		FT
TOTAL (PIER)		FT
TOTAL (SUPER)	112	FT
TOTAL (GENERAL)		FT
<b>TOTAL</b>	<b>112</b>	<b>FT</b>

518E21200

POROUS BACKFILL WITH GEOTEXTILE FABRIC

REAR ABUTMENT

POROUS BACKFILL WIDTH	2	FT
WINGWALL LENGTH	4.03125	FT
BEGIN DEPTH	2.16	FT
END DEPTH	1.7	FT
VOLUME (BOTH WINGWALLS)	1.15	CY

DIAPHRAGM LENGTH	41.42	FT
BACKFILL DEPTH	2	FT
VOLUME (ABUTMENT)	6.14	CY
REAR ABUTMENT SUBTOTAL	7.29	CY

FORWARD ABUTMENT

POROUS BACKFILL WIDTH	2	FT
WINGWALL LENGTH	4.03125	FT
BEGIN DEPTH	1.64	FT
END DEPTH	2.1	FT
VOLUME (BOTH WINGWALLS)	1.12	CY

DIAPHRAGM LENGTH	41.42	FT
BACKFILL DEPTH	2	FT
VOLUME (ABUTMENT)	6.14	CY
FORWARD ABUTMENT SUBTOTAL	7.25	CY



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TOTAL (ABUT)	17	CY
TOTAL (PIER)		CY
TOTAL (SUPER)		CY
TOTAL (GENERAL)		CY
<b>TOTAL</b>	<b>17</b>	<b>CY</b>

518E22300

STEEL DRIP STRIP

DECK EDGE DISTANCE (FACE/FACE DIAPHRAGM)	49.78	FT
# EDGES	2	EACH
ADDITIONAL LENGTH AT EACH POST	2	FT
# POSTS	12	EACH
TOTAL LENGTH	123.56	FT
TOTAL (ABUT)		FT
TOTAL (PIER)		FT
TOTAL (SUPER)	123.56	FT
TOTAL (GENERAL)		FT
<b>TOTAL</b>	<b>123.56</b>	<b>FT</b>

519E11100

PATCHING CONCRETE STRUCTURE

PATCHING AREA	60.00	SF
TOTAL (ABUT)	60	SF
TOTAL (PIER)		SF
TOTAL (SUPER)		SF
TOTAL (GENERAL)		SF
<b>TOTAL</b>	<b>60</b>	<b>SF</b>

526E10000

REINFORCED CONCRETE APPROACH SLABS (T=12")

APPROACH SLAB LENGTH	15	FT
APPROACH SLAB WIDTH	40	FT
AREA PER APPROACH SLAB	66.67	SY
# SLABS	2	EACH
TOTAL AREA	133.33	SY
TOTAL (ABUT)		SY
TOTAL (PIER)		SY
TOTAL (SUPER)		SY



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TOTAL (GENERAL)	134	SY
<b>TOTAL</b>	<b>134</b>	<b>SY</b>

526E90020

TYPE B INSTALLATION

BOTH APPROACHES

LENGTH	40.00	FT
MESH WIDTH	5.00	FT
TOTAL AREA	44.44	SY
TOTAL (ABUT)		SY
TOTAL (PIER)		SY
TOTAL (SUPER)		SY
TOTAL (GENERAL)	45	SY
<b>TOTAL</b>	<b>45</b>	<b>SY</b>

625E33000

STRUCTURE GROUNDING SYSTEM

# SYSTEMS	1	EACH
TOTAL (ABUT)		EACH
TOTAL (PIER)		EACH
TOTAL (SUPER)		EACH
TOTAL (GENERAL)	1	EACH
<b>TOTAL</b>	<b>1</b>	<b>EACH</b>

630E02100

GROUND MOUNTED SUPPORT, NO. 2 POST

Quantity	42	FT
TOTAL (ABUT)		FT
TOTAL (PIER)		FT
TOTAL (SUPER)		FT
TOTAL (GENERAL)	42	FT
<b>TOTAL</b>	<b>42</b>	<b>FT</b>

630E80100

SIGN, FLAT SHEET

Quantity	12	SF
TOTAL (ABUT)		SF
TOTAL (PIER)		SF
TOTAL (SUPER)		SF



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TOTAL (GENERAL)	12	SF
<b>TOTAL</b>	<b>12</b>	<b>SF</b>

630E80100      SIGN, FLAT SHEET, 730.20

Quantity	2	SF
TOTAL (ABUT)		SF
TOTAL (PIER)		SF
TOTAL (SUPER)		SF
TOTAL (GENERAL)	2	SF
<b>TOTAL</b>	<b>2</b>	<b>SF</b>

630E84900      REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL

Quantity	6	EACH
TOTAL (ABUT)		EACH
TOTAL (PIER)		EACH
TOTAL (SUPER)		EACH
TOTAL (GENERAL)	6	EACH
<b>TOTAL</b>	<b>6</b>	<b>EACH</b>

630E86002      REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL

Quantity	4	EACH
TOTAL (ABUT)		EACH
TOTAL (PIER)		EACH
TOTAL (SUPER)		EACH
TOTAL (GENERAL)	4	EACH
<b>TOTAL</b>	<b>4</b>	<b>EACH</b>