GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Protective coat shall be applied to the top of multi-use path, top of parapets, inside faces of exterior parapets, and both faces of interior parapet.
- 3. Slipforming of the parapets is not allowed.

SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s). See Utility Location Plans.
- 2. Complete the Removal and Disposal of Unsuitable Materials and replace with Aggregate Subgrade Improvement.
- 3. Install Piles
- 4. Construct the abutments and MSE walls.
- 5. Place the Precast Prestressed Concrete Beams on the abutments.
- 6. Construct the bridge deck, parapets, and railings.
- 7. All Lightweight Cellular Concrete Fill shall be Class IV. See Special Provisions.

TOTAL BILL OF MATERIA	TOTAL	BILL	0F	MATERIA
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Item	 Unit	Super	Sub	Total
Porous Granular Embankment	Cu. Yd.	Juper	703	703
Structure Excavation	Cu. Yd.		990	990
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.		703	703
Floor Drains	Each	16	705	16
Concrete Structures	Cu. Yd.	10	107.2	107.2
Concrete Superstructure	Cu. Yd.	321.9	107.2	321.9
Protective Coat	Sq. Yd.	545		545
Furnishing And Erecting Precast Prestressed Concrete Beams, IL63N	Foot	1,054		1.054
Reinforcement Bars, Epoxy Coated	Pound	71,740	9,280	81,020
Bridge Fence Railing	Foot	266	5,200	266
Parapet Railing	Foot	253		253
Furnishing Steel Piles HP12X53	Foot	235	3,216	3,216
Driving Piles	Foot		3,216	3,216
Test Pile Steel HP12X53	Each		2	2
Pile Shoes	Each		26	26
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	107		107
Elastomeric Bearing Assembly, Type I	Each	8		8
Anchor Bolts. 1 1/4"	Each	32		32
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.		4.297	4.297
Drainage System For Structures	L. Sum	1.0		1.0
Granular Backfill For Structures	Cu. Yd.		_184	184
Geocomposite Wall Drain	Šq. Yd.	118	$\gamma \gamma \gamma \gamma \gamma$	118
Chain Link Fence, 4	Foot	219		219
Lightweight Cellular Concrete Fill	Cu. Yd.		7,450	7,450
Anti-Graffiti Coating	Sq. Ft.		8,308	8,308
Concrete Wearing Surface, 5"	Sq. Yd.	356		356
Precast Bridge Approach Slab	Sq. Ft.	3,065		3,065
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	857		857
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.		4,613	4,613

INDEX OF SHEETS

15

23

29



	USER NAME = CEComin	DESIGNED - TJA	REVISED - TJA 1/10/2023 3		GENERAL DAT
Tron Quetama		CHECKED - MDS	REVISED -	STATE OF ILLINOIS	
, <u>ran</u> Systems >	PLOT SCALE = NTS	DRAWN - TJA	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 045–3401
	PLOT DATE = 1/11/2023	CHECKED - MDS	REVISED -		SHEET NO. 2 OF 40 SH



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 Sheet No. 11 Of 4

E DETAILS 2	F.A.S. RTE.	SECT	TION			TOTAL SHEETS	SHEET NO.
3401	1107	15-00277-01-BR			KANE	542	216
	CONTRACT NO. 61H95						1H95
40 SHEETS			ILLINOIS	FED. A	D PROJECT		



ANCHOR BOLT DETAILS



SECTION THRU ABUT.



USER NAME = CEComin DESIGNED - TJA REVISED - TJA 1/10/2023 SOUTH ABUTMEN STATE OF ILLINOIS CHECKED - MDS REVISED -**Tran** Systems SN 045-34 **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = NTS DRAWN -TJA REVISED PLOT DATE = 1/11/2023 CHECKED - MDS REVISED -SHEET NO. 27 OF 40

DILL VI MAILNIAL	BILL	0F	MATERIAL
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Bar No. Size Length Shape $h(E)$ 4 #5 28'-5"			DILL	01 10	ALLI	<u> 1 </u>
h1(E) 32 #8 $18'-5"$ $h2(E)$ 20 #4 9'-6" $h3(E)$ 4 #6 $10'-6"$ $p(E)$ 27 #7 $20'-10"$ $s3(E)$ 56 #5 $14'-11"$ 1 $u(E)$ 8 #6 $13'-0"$ 2 $u1(E)$ 55 #5 $3'-8"$ 2 $v(E)$ 18 #5 $15'-0"$ $ v1(E)$ 4 #5 $9'-11"$ $ v2(E)$ 4 #5 $9'-9"$ $-$ Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound $4,640$ Furnishing Steel Foot $1,704$ Driving Piles Foot $1,704$ Driving Piles Foot $1,704$ Each 1 Pile Shoes Each 1		Bar	No.	Size	Length	Shape
h2(E) 20 #4 $9'-6''$ $h3(E)$ 4 #6 $10'-6''$ $p(E)$ 27 #7 $20'-10''$ $s3(E)$ 56 #5 $14'-11''$ 1 $u(E)$ 8 #6 $13'-0''$ 2 $u1(E)$ 55 #5 $3'-8''$ 2 $v(E)$ 18 #5 $9'-11''$ 2 $v1(E)$ 4 #5 $9'-9''$ 3 $v2(E)$ 4 #5 $9'-9''$ 3 Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Found $4,640$ Furnishing Steel Foot $1,704$ Piles HP12x53 Foot $1,704$ Driving Piles Foot $1,704$ Test Pile Steel Each 1 Pile Shoes Each 1 13 3		h(E)	4	#5	28'-5"	
$h3(E)$ 4 #6 $10^{\circ}-6"$ $p(E)$ 27 #7 $20^{\circ}-10"$ $s3(E)$ 56 #5 $14^{\circ}-11"$ \Box $u(E)$ 8 #6 $13^{\circ}-0"$ \Box $u(E)$ 8 #6 $13^{\circ}-0"$ \Box $u1(E)$ 55 #5 $3^{\circ}-8"$ \Box $v(E)$ 18 #5 $15^{\circ}-0"$ \Box $v(E)$ 18 #5 $9^{\circ}-9"$ \Box $v(E)$ 4 #5 $9^{\circ}-9"$ \Box $v(E)$ 4 #5 $9^{\circ}-9"$ \Box $v2(E)$ 4 #5 $9^{\circ}-9"$ \Box Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound $4,640$ Furnishing Steel Piles HP12x53 Foot $1,704$ Driving Piles Foot $1,704$ Test Pile Steel HP12x53 Each 1 Pile Shoes Each 1		h1(E)	32	#8		
$p(E)$ 27 #7 20'-10" $s3(E)$ 56 #5 $14'-11"$ \Box $u(E)$ 8 #6 $13'-0"$ \Box $u1(E)$ 55 #5 $3'-8"$ \Box $v(E)$ 18 #5 $15'-0"$ \Box $v(E)$ 18 #5 $9'-9"$ \Box $v(E)$ 4 #5 $9'-9"$ \Box $v(E)$		h2(E)	20	#4	9'-6"	
x3(E) 56 #5 14'-11" x3(E) 56 #5 14'-11" u(E) 8 #6 13'-0" u1(E) 55 #5 3'-8" v(E) 18 #5 15'-0" v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound 4,640 Furnishing Steel Piles HP12x53 Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 1		h3(E)	4	#6	10'-6"	
x3(E) 56 #5 14'-11" x3(E) 56 #5 14'-11" u(E) 8 #6 13'-0" u1(E) 55 #5 3'-8" v(E) 18 #5 15'-0" v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound 4,640 Furnishing Steel Piles HP12x53 Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 1						
u(E) 8 #6 13'-0" u1(E) 55 #5 3'-8" v(E) 18 #5 15'-0" v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound 4,640 Furnishing Steel Piles HP12x53 Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 1		p(E)	27	#7	20'-10"	
u(E) 8 #6 13'-0" u1(E) 55 #5 3'-8" v(E) 18 #5 15'-0" v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound 4,640 Furnishing Steel Piles HP12x53 Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 1		53(E)	.56	#5	14'-11"	- 7
u1(E) 55 #5 3'-8" v(E) 18 #5 15'-0" v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound 4,640 Furnishing Steel Piles HP12x53 Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 13		00(2)				
u1(E) 55 #5 3'-8" v(E) 18 #5 15'-0" v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Coated Pound 4,640 Furnishing Steel Piles HP12x53 Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 13		u(E)	8	#6	13'-0"	
v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Pound 4,640 Furnishing Steel Piles Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 13			55	#5	3'-8"	
v1(E) 4 #5 9'-11" v2(E) 4 #5 9'-9" Concrete Structures Cu. Yd. 37.2 Reinforcement Bars, Epoxy Pound 4,640 Furnishing Steel Piles Foot 1,704 Driving Piles Foot 1,704 Test Pile Steel HP12x53 Each 1 Pile Shoes Each 13						
v2(E)4#59'-9"Concrete StructuresCu. Yd.37.2Reinforcement Bars, Epoxy CoatedPound4,640Furnishing Steel Piles HP12x53Foot1,704Driving PilesFoot1,704Test Pile Steel HP12x53Each1Pile ShoesEach13			18	-		
Concrete StructuresCu. Yd.37.2Reinforcement Bars, Epoxy CoatedPound4,640Furnishing Steel Piles HP12x53Foot1,704Driving PilesFoot1,704Test Pile Steel HP12x53Each1Pile ShoesEach13		v1(E)	4	#5	9'-11"	
Reinforcement Bars, Epoxy CoatedPound4,640Furnishing Steel Piles HP12x53Foot1,704Driving PilesFoot1,704Test Pile Steel HP12x53Each1Pile ShoesEach13		v2(E)	4	#5	9'-9"	
Reinforcement Bars, Epoxy CoatedPound4,640Furnishing Steel Piles HP12x53Foot1,704Driving PilesFoot1,704Test Pile Steel HP12x53Each1Pile ShoesEach13						
Epoxy CoatedPound4,640Furnishing Steel Piles HP12x53Foot1,704Driving PilesFoot1,704Test Pile Steel HP12x53Each1Pile ShoesEach13					Cu. Yd.	37.2
Piles HP12x53Foot1,704Driving PilesFoot1,704Test Pile Steel HP12x53Each1Pile ShoesEach13					Pound	4,640
Test Pile SteelEach1HP12x53Each13Pile ShoesEach13					Foot	1,704
Test Pile Steel HP12x53Each1Pile ShoesEach13		Drivin	g Piles		Foot	1,704
Pile Shoes Each 13		Test P	ile Stee	e/	Each	1
			-			
	A /	$\dot{\sim}$	$\overline{\sim}$	$\sim \sim$	Each	\sim
Geocomposite Wall Drain Sq. Yd. 59	\sim				Sq. Yd.	59

Notes:

Pour steps monolithically with cap. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated. For details of piles see Sheet 30 of 40.

NT DETAILS		A.S. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
3401	1107 15-00277-01-BR			KANE	542	232	
					CONTRACT NO. 61H95		
40 SHEETS	ILLINOIS FED. AID PROJECT						



ANCHOR BOLT DETAILS



SECTION THRU ABUT.



	USER NAME = CEComin	DESIGNED - TJA	REVISED - TJA 1/10/2023 3		NORTH ABUTMENT DETAILS	F.A.S. BTE.	SECTION	COUNTY T	TOTAL SHEET
Tran Systems >		CHECKED - MDS	REVISED -	STATE OF ILLINOIS	SN 045-3401	1107	15-00277-01-BR	KANE	542 234
	PLOT SCALE = NTS	DRAWN - TJA	REVISED -	DEPARTMENT OF TRANSPORTATION	31 01-3101			CONTRACT N	NO. 61H95
	PLOT DATE = 1/11/2023	CHECKED - MDS	REVISED -		SHEET NO. 29 OF 40 SHEETS		ILLINOIS FED. A	AID PROJECT	

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		DILL	01 10	AILNIA	12
	Bar	No.	Size	Length	Shape
	h(E)	4	#5	28'-5"	
	h1(E)	32	#8	18'-5"	
	h2(E)	20	#4	9'-6"	
	h3(E)	4	#6	10'-6"	
	p(E)	27 #7		20'-10"	
	_ <i>s3(E)</i>	56	#5	14'-11"	
	(5)			1.71 .01	
	<u>u(E)</u>	8	#6	13'-0"	
	1(E)	55	#5	3'-8"	
		10	#E	1 5' 0"	
	v(E) v1(E)	18 4	#5 #5	15'-0" 9'-11"	
		4	#5	9'-11 9'-9"	
	v2(E)	4	#5	9-9	
	Concre	te Stru	cturos	Cu. Yd.	37.2
		rcement			
		Coated		Pound	4,640
		hing St HP12x5.		Foot	1,512
	Drivino	, Piles		Foot	1,512
		, ile Stee	el	Each	1
	HP12x	53		Edli	-
A	Pi <u>l</u> e_SI		200	Each	13
		nposite	v v —v	Sq. Yd.	59
7	Wall D	rain	<u></u>		لممتمها

Notes:

Notes: Pour steps monolithically with cap. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated. For details of piles see Sheet 30 of 40.



SHEET NO. 33 OF

S AND DETAILS		A.S. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
-3401	1107	1107 15-00277-01-BR			KANE	542	238
					CONTRACT	NO. 6	1H95
40 SHEETS			ILLINOIS	FED. AI	D PROJECT		