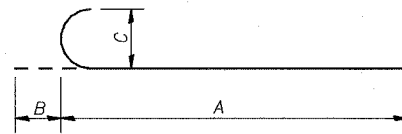


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	450
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT-		

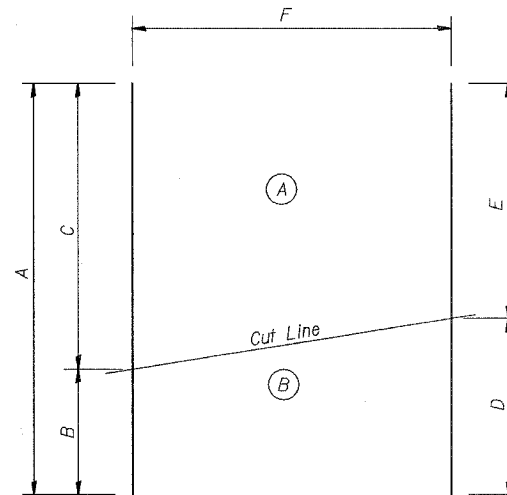
CONTRACT NO. 60E10

SHEET NO. 40
54 SHEETS



BARS $n_1(E)$, $n_2(E)$, & $n_{15}(E)$

Bar	A	B	C
$n_1(E)$	8'-7"	7"	5"
$n_2(E)$	3'-7"	10"	7"
$n_{15}(E)$	32'-7"	1'-5"	1'-1 1/4"



FIELD CUTTING DIAGRAM #2

Order bars full length. Cut bars in field as shown. Place patterns (A) & (B) side by side as shown on sheet 35 for $t_x(E)$ bars and $w_x(E)$ bars.

Bar	A	B	C	D	E	F
$t_2(E)$	26'-2"	11'-4"	14'-10"	13'-0"	13'-2"	13-#5 bars @ 12" cts.
$t_5(E)$	26'-2"	11'-4"	14'-10"	13'-0"	13'-2"	33-#7 bars @ 5" cts.
$t_9(E)$	27'-7"	14'-10"	12'-9"	13'-9"	13'-10"	8-#7 bars @ 10" cts.
$w_3(E)$	31'-7"	28'-4"	3'-3"	15'-10"	15'-9"	4-#7 bars @ 5" cts.

Repair epoxy coating at field cuts per
IDOT Standard Specifications, Article 508.04

SOUTH RETAINING BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h1(E)$	120	#5	25'-9"	—
$n1(E)$	146	#6	9'-5"	—
$n2(E)$	73	#5	4'-2"	—
$n15(E)$	247	#10	34'-0"	—
$sp2$	19	#5	30'-2"	
$t1(E)$	4	#5	14'-9"	—
$t2(E)$	26	#5	26'-2"	—
$t3(E)$	16	#5	11'-2"	—
$t4(E)$	10	#7	14'-9"	—
$t5(E)$	66	#7	26'-2"	—
$t6(E)$	38	#7	11'-2"	—
$t9(E)$	16	#7	27'-7"	—
$v1(E)$	292	#6	10'-10"	—
$v2(E)$	146	#5	10'-7"	—
$w1(E)$	39	#5	25'-9"	—
$w2(E)$	87	#7	26'-9"	—
$w3(E)$	8	#7	31'-7"	—
$w4(E)$	2	#5	8'-10"	—
$w5(E)$	2	#5	15'-8"	—
$w6(E)$	2	#5	22'-6"	—
$w7(E)$	2	#5	30'-5"	—
$w8(E)$	2	#7	24'-10"	—
Structure Excavation			Cu Yd	515
Braced Excavation			Cu Yd	352
Concrete Structures			Cu Yd	202.1
Reinforcement Bars			Pound	11,570
Reinforcement Bars, Epoxy Coated			Pound	61,250
Drilled Shaft in Soil			Cu. Yd.	135
Drilled Shaft in Rock			Cu. Yd.	11
Geocomposite Wall Drain			Sq. Yd.	125
Porous Granular Embankment			Cu. Yd.	578

Notes:

- Work this Sheet with Sheets 38 and 39.
- Reinforcement bars designated (E) shall be epoxy coated.
- Min. lap length for # 5 bar is 2'-2" and # 6 bar is 2'-7".
- Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
- See Sheet 24 of U.S. 6 Mainline Retaining Walls Along 159th Street plans for Pipe Underdrain Layout and Quantities.
- See Sheet 45 for details of Porous Granular Embankment and Pipe Underdrain for Structures 6".
- IDOT Approved Mechanical Reinforcing Bar Splicer/Coupler (E) is allowed for the $n15(E)$ bars to allow hooks at top to be spliced on after shafts are poured. Cost included in Reinforcement Bars, Epoxy Coated.

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DESIGNED	EV
CHECKED	NPP
DRAWN	EV
CHECKED	NPP

REVISIONS	
NAME	DATE

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
SOUTH RETAINING WALL
DETAILS SN 016-2821
STRUCTURES FOR CN INTERMODAL
YARD VEHICLES OVER U.S. RTE. 6 (159TH STREET)
STATION 95+02.14 STRUCTURE NOS. 016-2820
& 016-2821
SCALE: N.T.S. DATE: 9/21/2008