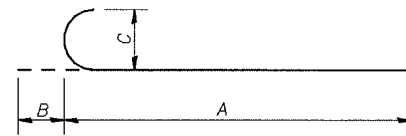


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	2008-001VB	COOK	579	447
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT-		

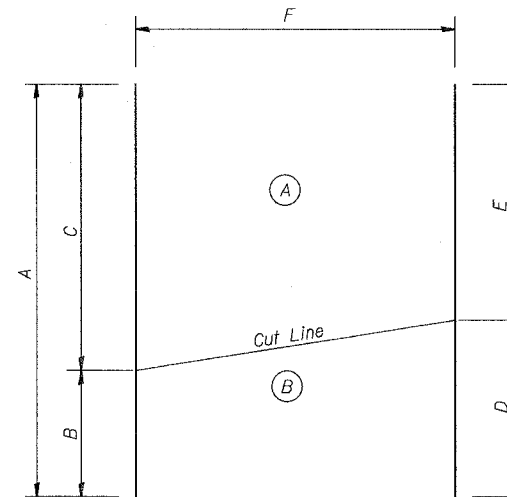
CONTRACT NO. 60E10

SHEET NO. 37  
54 SHEETS



BARS  $n_1(E)$ ,  $n_2(E)$ , &  $n_3(E)$

Bar	A	B	C
$n_1(E)$	8'-7"	7"	5"
$n_2(E)$	3'-7"	10"	7"
$n_3(E)$	27'-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

NORTH 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"	—
$n3(E)$	247	#10	29'-0"	—
$sp1$	19	#5	25'-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	542	
Braced Excavation		Cu Yd	371	
Concrete Structures		Cu Yd	206	
Reinforcement Bars		Pound	9,650	
Reinforcement Bars, Epoxy Coated		Pound	55,940	
Non-Special Waste Disposal		Cu. Yd.	1022.0	
Drilled Shaft in Soil		Cu. Yd.	110	
Drilled Shaft in Rock		Cu. Yd.	11	
Geocomposite Wall Drain		Sq. Yd.	126	
Porous Granular Embankment		Cu Yd	481	
Permanent Steel Sheet Piling		Sq Ft	1050	

Notes:

- Work this Sheet with Sheets 35 and 36.
- 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  $n3(E)$  bars to allow hooks at top to be spliced on after shafts are poured. Cost included in Reinforcement Bars, Epoxy Coated.

3/13/2008 2:52:46 PM g:\17049\structures\2820.w.hwl\dwg\pref\ref\plans\37-north\_retain\_wall3.dwg

DESIGNED	EV
CHECKED	NPP
DRAWN	EV
CHECKED	NPP

**URS**  
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Chicago, IL 60606  
(312) 939-1000

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 FROM I-294 TO IL RTE 1  
**NORTH 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