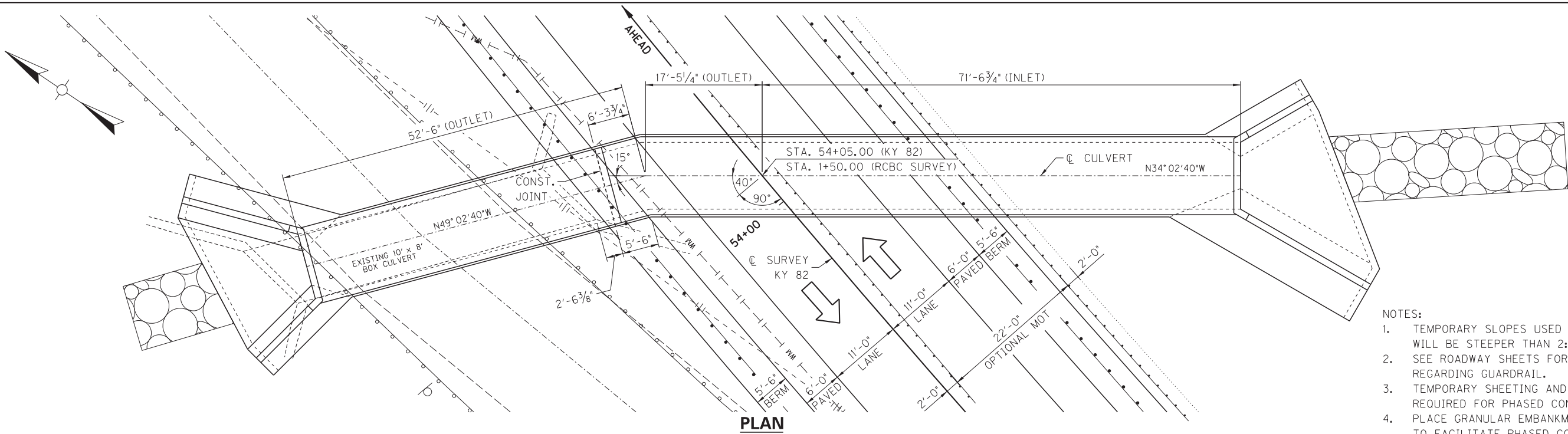


ESTILL COUNTY
KY 82 OVER TWIN CREEK TRIBUTARY
SINGLE 10' x 8' RCBC
STA. 54+05.00

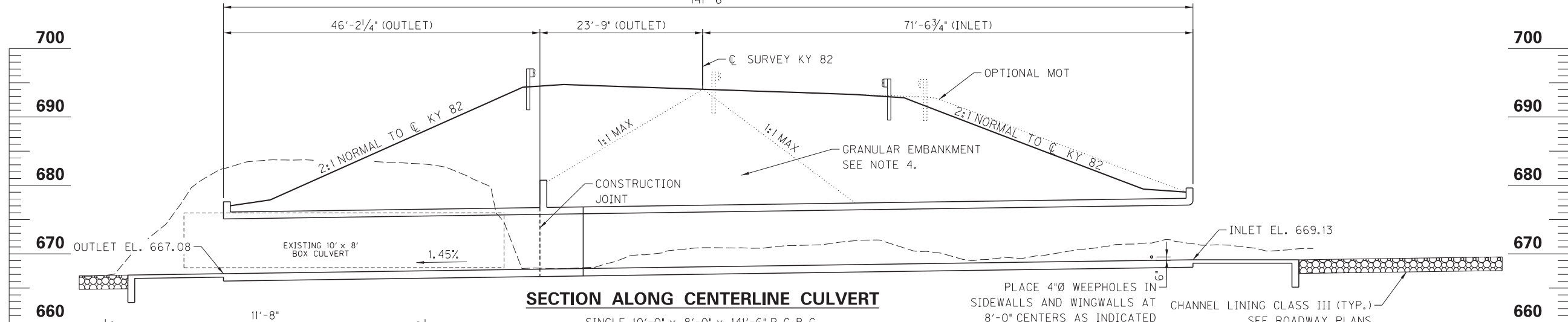
SPECIFICATIONS: ALL REFERENCES TO THE STANDARD SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH CURRENT SUPPLEMENTAL SPECIFICATIONS. ALL REFERENCES TO THE AASHTO SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, WITH INTERIM'S.

PREPARED BY  INTEGRATED ENGINEERING	a PRIMESM COMPANY	SHEET NO. S1
		DRAWING NO. 28454



TWIN CR. TRIB.

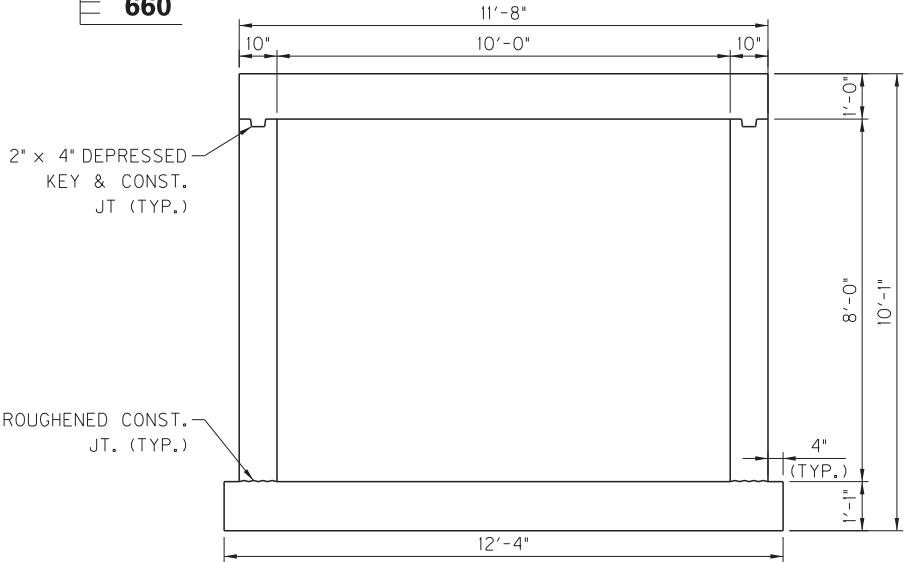
- NOTES:
1. TEMPORARY SLOPES USED FOR OPTIONAL MOT WILL BE STEEPER THAN 2:1 NORMAL TO C KY 82
 2. SEE ROADWAY SHEETS FOR OPTIONAL MOT NOTES REGARDING GUARDRAIL.
 3. TEMPORARY SHEETING AND SHORING WILL BE REQUIRED FOR PHASED CONSTRUCTION.
 4. PLACE GRANULAR EMBANKMENT IN AREA OF CULVERT TO FACILITATE PHASED CONSTRUCTION WHERE SLOPES ARE STEEPER THAN 2:1.



SECTION ALONG CENTERLINE CULVERT

SINGLE 10'-0" x 8'-0" x 141'-6" R.C.B.C.
71'-6 3/4" INLET & 69'-11 1/4" OUTLET ~ 40° SKEW RT.
18'-0" DESIGN FILL HEIGHT ~ NO LIVE LOAD
2:1 FILL SLOPES ~ YIELDING FOUNDATION

PLACE 4"Ø WEEPHOLES IN
SIDEWALLS AND WINGWALLS AT
8'-0" CENTERS AS INDICATED
IN SECTION 610.03.03 OF THE
SPECIFICATIONS



TYPICAL BARREL SECTION

FLOOD DATA				
DRAINAGE AREA = 288.00 ACRES				
	STORM (yr)	RUNOFF (cfs)	HW ELEV. (ft)	OUTLET VELOCITY (fps)
DESIGN	25	223.0	673.13	16.35
CHECK	100	308.0	673.99	17.96
ALLOWABLE HEADWATER (FT) = 5.40				
BASIS FOR AHW	MATCH OR BELOW EXISTING ELEVATION = 673.40			

KY 82 CURVE DATA

PI STA. 62+52.77
D = 67°06'15"
T = 1260.07
L = 2225.26
R = 1900.00
E = 379.86

ITEM NUMBER
10-9014.00

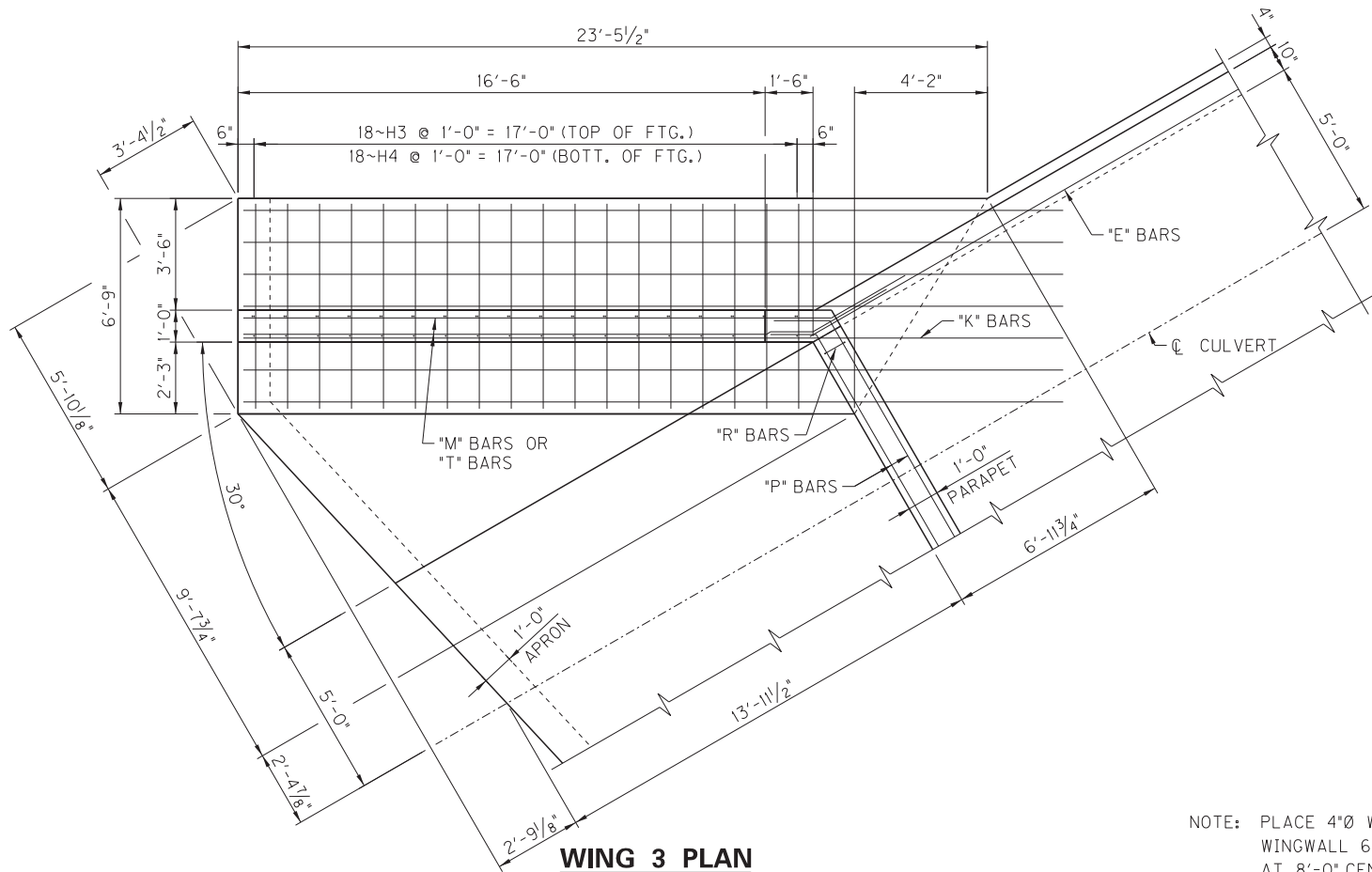
REVISION		DATE
DATE: OCTOBER 2021	CHECKED BY	
DESIGNED BY: BEN DRECKMAN	LEE SEWELL	
DETAILED BY: BEN DRECKMAN	LEE SEWELL	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY ESTILL		
ROUTE KY 82	CROSSING STA. 54 + 05.00	
LAYOUT		
PREPARED BY		SHEET NO. S2
 INTEGRATED ENGINEERING		 a PRIME COMPANY
		DRAWING NO. 28454



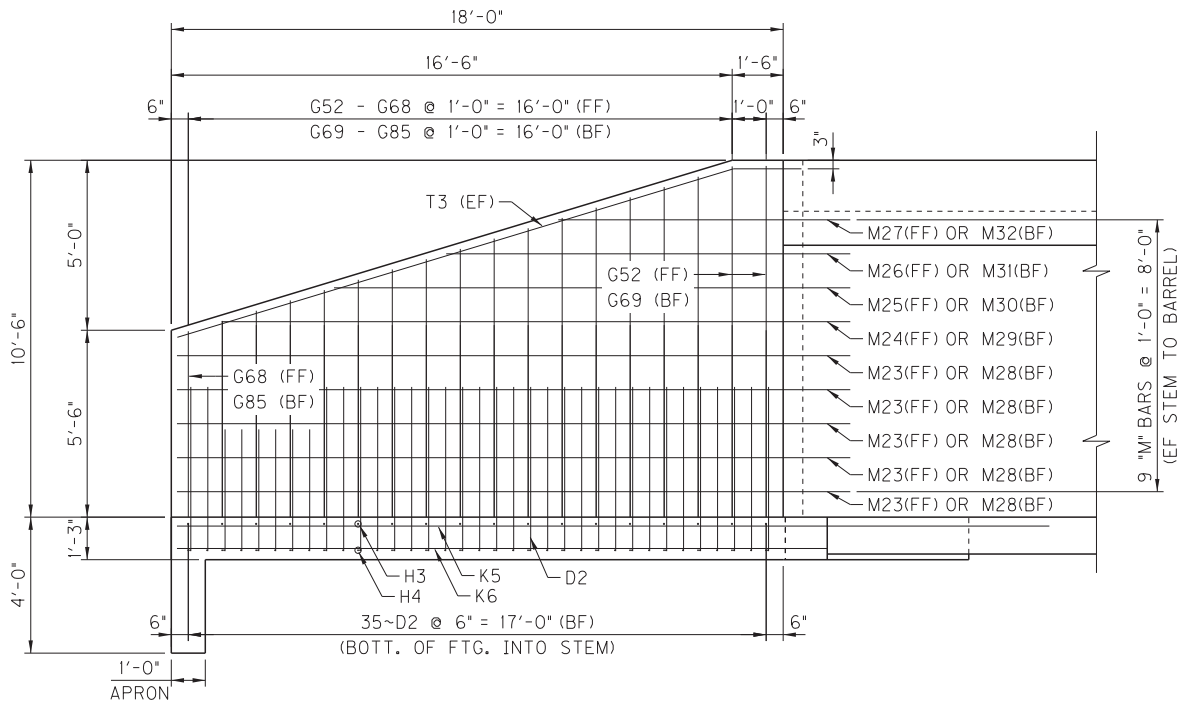
NOTE:
BF = BACK FACE
FF = FRONT FACE
EF = EACH FACE



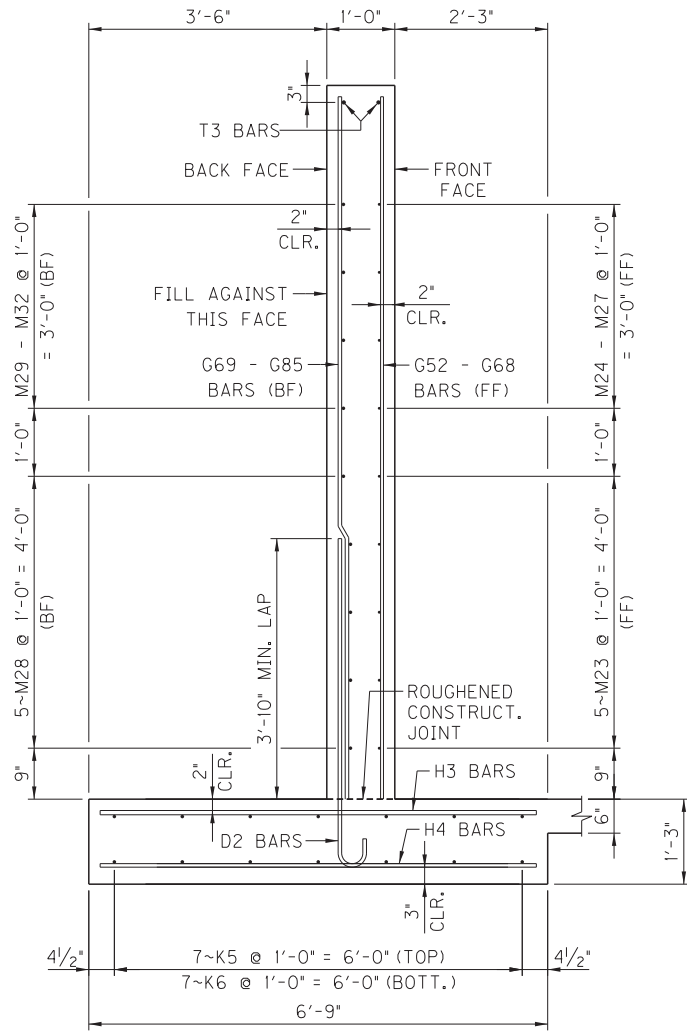
REVISION		DATE	
DATE: OCTOBER 2021		CHECKED BY	
DESIGNED BY: BEN DRECKMAN		LEE SEWELL	
DETAILED BY: J. B. BACK		LEE SEWELL	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS			
COUNTY ESTILL			
ROUTE KY 82	CROSSING STA. 54 + 00.00		
WINGWALL - WING 1			
PREPARED BY   INTEGRATED ENGINEERING			SHEET NO. S4 DRAWING NO. 28454



NOTE: PLACE 4"Ø WEEPHOLES IN WINGWALL 6" ABOVE GROUNDLINE AT 8'-0" CENTERS.



WING 3 ELEVATION



NOTE:
BF = BACK FACE
FF = FRONT FACE
EF = EACH FACE

ITEM NUMBER
10-9014.00

REVISION		DATE
DATE: OCTOBER 2021	CHECKED BY	
DESIGNED BY: BEN DRECKMAN	LEE SEWELL	
DETAILED BY: BEN DRECKMAN	LEE SEWELL	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY ESTILL		
ROUTE KY 82	CROSSING STA. 54 + 05.00	
WINGWALL – WING 3		
PREPARED BY		SHEET NO. S6
 INTEGRATED ENGINEERS		 DRAWING NO. 28454



FILE NAME: K:\170080-10 HSJP KY 82\CADD\STRUCTURES DRAWINGS\007_28454_S001_BILL_OF_REINFORCEMENT.DGN

USER: Isewell
DATE PLOTTED: October 21, 2021

E-SHEET NAME:

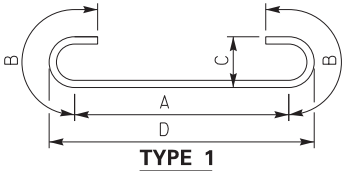
Power InRoads v8.11.3.397

BILL OF REINFORCEMENT

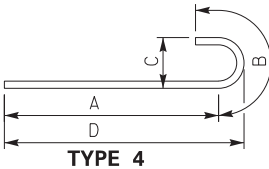
MARK	TYPE	NUMBER	SIZE	LENGTH	LOCATION	A	B	C	D
A1(E)	1	278	# 8	13'-2"	TOP SLAB	10'-8"	1'-3"	0'-8"	11'-4"
B1(E)	1	282	# 8	13'-10"	BOTTOM SLAB	11'-4"	1'-3"	0'-8"	12'-0"
C1(E)	STR.	564	# 5	8'-10"	SIDEWALLS				
D1(E)	4	564	# 5	4'-8"	BARREL	3'-10"	0'-10"	0'-5"	4'-0 1/2"
D2(E)	4	106	# 6	5'-6"	WINGWALLS	4'-7"	0'-11"	0'-6"	4'-10"
E1(E)	STR.	40	# 4	60'-0"	BARREL-INLET				
E2(E)	STR.	40	# 4	30'-9"	BARREL-INLET/OUTLET				
E3(E)	8	40	# 4	8'-2"	BARREL-OUTLET	4'-1"	4'-1"	1'-0 5/8"	3'-11 3/8"
E4(E)	STR.	40	# 4	8'-3"	BARREL-OUTLET				
E5(E)	STR.	40	# 4	46'-0"	BARREL-OUTLET				
P1(E)	6	2	# 6	13'-3"	INLET/OUTLET PARAPET	10'-5"	1'-5"	1'-2 3/4"	0'-8 1/2"
P2(E)	6	2	# 5	13'-3"	INLET/OUTLET PARAPET	10'-5"	1'-5"	1'-2 3/4"	0'-8 1/2"
P3(E)	6	2	# 8	13'-3"	INLET/OUTLET PARAPET	10'-5"	1'-5"	1'-2 3/4"	0'-8 1/2"
P4(E)	6	2	# 6	14'-3"	INLET/OUTLET PARAPET	10'-9"	1'-9"	1'-6 1/8"	0'-10 1/2"
P5(E)	6	2	# 5	14'-3"	INLET/OUTLET PARAPET	10'-9"	1'-9"	1'-6 1/8"	0'-10 1/2"
P6(E)	6	2	# 8	14'-3"	INLET/OUTLET PARAPET	10'-9"	1'-9"	1'-6 1/8"	0'-10 1/2"
P7(E)	STR.	2	# 6	11'-4"	CONSTR. JT. PARAPET				
P8(E)	STR.	8	# 5	11'-4"	CONSTR. JT. PARAPET				
R1(E)	11(S)	10	# 5	5'-11"	INLET PARAPET	SEE BEND DETAIL, THIS SHEET			
R2(E)	12(S)	10	# 5	6'-1"	OUTLET PARAPET	SEE BEND DETAIL, THIS SHEET			
R3(E)	12(S)	10	# 5	11'-1"	CONSTR. JT. PARAPET	SEE BEND DETAIL, THIS SHEET			
G1(E)	STR.	3	# 5	6'-4"	WINGWALL - WING 1 (BF)				
G2(E)	STR.	3	# 5	6'-8"	WINGWALL - WING 1 (BF)				
G3(E)	STR.	3	# 5	6'-11"	WINGWALL - WING 1 (BF)				
G4(E)	STR.	3	# 5	7'-2"	WINGWALL - WING 1 (BF)				
G5(E)	STR.	3	# 5	7'-6"	WINGWALL - WING 1 (BF)				
G6(E)	STR.	3	# 5	7'-9"	WINGWALL - WING 1 (BF)				
G7(E)	STR.	3	# 5	8'-1"	WINGWALL - WING 1 (BF)				
G8(E)	STR.	3	# 5	8'-4"	WINGWALL - WING 1 (BF)				
G9(E)	STR.	3	# 5	8'-8"	WINGWALL - WING 1 (BF)				
G10(E)	STR.	3	# 5	8'-11"	WINGWALL - WING 1 (BF)				
G11(E)	STR.	3	# 5	9'-3"	WINGWALL - WING 1 (BF)				
G12(E)	STR.	3	# 5	9'-6"	WINGWALL - WING 1 (BF)				
G13(E)	STR.	3	# 5	9'-9"	WINGWALL - WING 1 (BF)				
G14(E)	STR.	3	# 5	10'-1"	WINGWALL - WING 1 (BF)				
G15(E)	STR.	3	# 5	10'-4"	WINGWALL - WING 1 (BF)				
G16(E)	STR.	1	# 4	6'-4"	WINGWALL - WING 1 (BF)				
G17(E)	STR.	2	# 4	6'-7"	WINGWALL - WING 1 (FF)				
G18(E)	STR.	2	# 4	6'-11"	WINGWALL - WING 1 (FF)				
G19(E)	STR.	2	# 4	7'-4"	WINGWALL - WING 1 (FF)				
G20(E)	STR.	2	# 4	7'-8"	WINGWALL - WING 1 (FF)				
G21(E)	STR.	2	# 4	8'-1"	WINGWALL - WING 1 (FF)				
G22(E)	STR.	2	# 4	8'-5"	WINGWALL - WING 1 (FF)				
G23(E)	STR.	2	# 4	8'-10"	WINGWALL - WING 1 (FF)				
G24(E)	STR.	2	# 4	9'-2"	WINGWALL - WING 1 (FF)				
G25(E)	STR.	2	# 4	9'-7"	WINGWALL - WING 1 (FF)				
G26(E)	STR.	2	# 4	10'-0"	WINGWALL - WING 1 (FF)				
G27(E)	STR.	2	# 4	10'-4"	WINGWALL - WING 1 (FF)				
G28(E)	STR.	4	# 4	10'-4"	WINGWALL - WING 2 (FF)				
G29(E)	STR.	2	# 4	9'-10"	WINGWALL - WING 2 (FF)				
G30(E)	STR.	2	# 4	9'-3"	WINGWALL - WING 2 (FF)				
G31(E)	STR.	2	# 4	8'-9"	WINGWALL - WING 2 (FF)				
G32(E)	STR.	2	# 4	8'-2"	WINGWALL - WING 2 (FF)				
G33(E)	STR.	2	# 4	7'-7"	WINGWALL - WING 2 (FF)				
G34(E)	STR.	2	# 4	7'-0"	WINGWALL - WING 2 (FF)				
G35(E)	STR.	2	# 4	6'-5"	WINGWALL - WING 2 (FF)				
G36(E)	STR.	2	# 4	5'-10"	WINGWALL - WING 2 (FF)				
G37(E)	STR.	2	# 4	5'-4"	WINGWALL - WING 2 (FF)				
G38(E)	STR.	2	# 4	4'-9"	WINGWALL - WING 2 (FF)				
G39(E)	STR.	2	# 4	4'-2"	WINGWALL - WING 2 (FF)				
G40(E)	STR.	4	# 5	10'-4"	WINGWALL - WING 2 (BF)				
G41(E)	STR.	2	# 5	9'-10"	WINGWALL - WING 2 (BF)				
G42(E)	STR.	2	# 5	9'-3"	WINGWALL - WING 2 (BF)				
G43(E)	STR.	2	# 5	8'-9"	WINGWALL - WING 2 (BF)				
G44(E)	STR.	2	# 5	8'-2"	WINGWALL - WING 2 (BF)				
G45(E)	STR.	2	# 5	7'-7"	WINGWALL - WING 2 (BF)				
G46(E)	STR.	2	# 5	7'-0"	WINGWALL - WING 2 (BF)				
G47(E)	STR.	2	# 5	6'-5"	WINGWALL - WING 2 (BF)				
G48(E)	STR.	2	# 5	5'-10"	WINGWALL - WING 2 (BF)				
G49(E)	STR.	2	# 5	5'-4"	WINGWALL - WING 2 (BF)				
G50(E)	STR.	2	# 5	4'-9"	WINGWALL - WING 2 (BF)				
G51(E)	STR.	2	# 5	4'-2"	WINGWALL - WING 2 (BF)				
G52(E)	STR.	2	# 4	10'-4"	WINGWALL - WING 3 (FF)				
G53(E)	STR.	1	# 4	10'-0"	WINGWALL - WING 3 (FF)				
G54(E)	STR.	1	# 4	9'-8"	WINGWALL - WING 3 (FF)				
G55(E)	STR.	1	# 4	9'-4"	WINGWALL - WING 3 (FF)				
G56(E)	STR.	1	# 4	9'-1"	WINGWALL - WING 3 (FF)				
G57(E)	STR.	1	# 4	8'-9"	WINGWALL - WING 3 (FF)				

BILL OF REINFORCEMENT – CONTINUED

MARK	TYPE	NUMBER	SIZE	LENGTH	LOCATION	A	B	C	D
G58(E)	STR.	1	# 4	8'-6"	WINGWALL - WING 3 (FF)				
G59(E)	STR.	1	# 4	8'-2"	WINGWALL - WING 3 (FF)				
G60(E)	STR.	1	# 4	7'-10"	WINGWALL - WING 3 (FF)				
G61(E)	STR.	1	# 4	7'-7"	WINGWALL - WING 3 (FF)				
G62(E)	STR.	1	# 4	7'-3"	WINGWALL - WING 3 (FF)				
G63(E)	STR.	1	# 4	7'-0"	WINGWALL - WING 3 (FF)				
G64(E)	STR.	1	# 4	6'-8"	WINGWALL - WING 3 (FF)				
G65(E)	STR.	1	# 4	6'-4"	WINGWALL - WING 3 (FF)				
G66(E)	STR.	1	# 4	6'-1"	WINGWALL - WING 3 (FF)				
G67(E)	STR.	1	# 4	5'-9"	WINGWALL - WING 3 (FF)				
G68(E)	STR.	1	# 4	5'-5"	WINGWALL - WING 3 (FF)				
G69(E)	STR.	2	# 5	10'-4"	WINGWALL - WING 3 (BF)				
G70(E)	STR.	1	# 5	10'-0"	WINGWALL - WING 3 (BF)				
G71(E)	STR.	1	# 5	9'-8"	WINGWALL - WING 3 (BF)				
G72(E)	STR.	1	# 5	9'-4"	WINGWALL - WING 3 (BF)				
G73(E)	STR.	1	# 5	9'-1"	WINGWALL - WING 3 (BF)				
G74(E)	STR.	1	# 5	8'-9"	WINGWALL - WING 3 (BF)				
G75(E)	STR.	1	# 5	8'-6"	WINGWALL - WING 3 (BF)				
G76(E)	STR.	1	# 5	8'-2"	WINGWALL - WING 3 (BF)				
G77(E)	STR.	1	# 5	7'-10"	WINGWALL - WING 3 (BF)				
G78(E)	STR.	1	# 5	7'-7"	WINGWALL - WING 3 (BF)				
G79(E)	STR.	1	# 5	7'-3"	WINGWALL - WING 3 (BF)				
G80(E)	STR.	1	# 5	7'-0"	WINGWALL - WING 3 (BF)				
G81(E)	STR.	1	# 5	6'-8"	WINGWALL - WING 3 (BF)				
G82(E)	STR.	1	# 5	6'-4"	WINGWALL - WING 3 (BF)				
G83(E)	STR.	1	# 5	6'-1"	WINGWALL - WING 3 (BF)				
G84(E)	STR.	1	# 5	5'-9"	WINGWALL - WING 3 (BF)				
G85(E)	STR.	1	# 5	5'-5"	WINGWALL - WING 3 (BF)				
H1(E)	STR.	90	# 5	8'-8"	WINGWALL - WING 1 FTG				
H2(E)	STR.	52	# 5	5'-2"	WINGWALL - WING 2 FTG				
H3(E)	STR.	18	# 6	6'-5"	WINGWALL - WING 3 FTG				
H4(E)	STR.	18	# 5	6'-5"	WINGWALL - WING 3 FTG				
K1(E)	STR.	9	# 5	24'-1"	WINGWALL - WING 1 FTG				
K2(E)	STR.	9	# 5	33'-2"	WINGWALL - WING 1 FTG				
K3(E)	STR.	12	# 5	18'-10"	WINGWALL - WING 2 FTG				
K4(E)	STR.	12	# 5	13'-4"	WINGWALL - WING 2 FTG				
K5(E)	STR.	7	# 5	25'-8"	WINGWALL - WING 3 FTG				
K6(E)	STR.	7	# 5	19'-2"	WINGWALL - WING 3 FTG				
M1(E)	8	6	# 4	25'-7"	WINGWALL - WING 1 (FF)	22'-3"	3'-4"	1'-8"	2'-10 5/8"
M2(E)	8	1	# 4	23'-7"	WINGWALL - WING 1 (FF)	20'-3"	3'-4"	1'-8"	2'-10 5/8"
M3(E)	8	1	# 4	18'-4"	WINGWALL - WING 1 (FF)	15'-0"	3'-4"	1'-8"	2'-10 5/8"
M4(E)	8	1	# 4	13'-1"	WINGWALL - WING 1 (FF)	9'-9"	3'-4"	1'-8"	2'-10 5/8"
M5(E)					NOT USED				
M6(E)	8	6	# 5	26'-7"	WINGWALL - WING 1 (BF)	23'-3"	3'-4"	1'-8"	2'-10 5/8"
M7(E)	8	1	# 5	24'-6"	WINGWALL - WING 1 (BF)	21'-2"	3'-4"	1'-8"	2'-10 5/8"
M8(E)	8	1	# 5	19'-4"	WINGWALL - WING 1 (BF)	16'-0"	3'-4"	1'-8"	2'-10 5/8"
M9(E)	8	1	# 5	14'-1"	WINGWALL - WING 1 (BF)	10'-9"	3'-4"	1'-8"	2'-10 5/8"
M10(E)					NOT USED				
M11(E)	8	8	# 4	15'-6"	WINGWALL - WING 2 (FF)	12'-2"	3'-4"	1'-8"	2'-10 5/8"
M12(E)	8	2	# 4	14'-5"	WINGWALL - WING 2 (FF)	11'-1"	3'-4"	1'-8"	2'-10 5/8"
M13(E)	8	2	# 4	12'-8"	WINGWALL - WING 2 (FF)	9'-4"	3'-4"	1'-8"	2'-10 5/8"
M14(E)	8	2	# 4	10'-11"	WINGWALL - WING 2 (FF)	7'-7"	3'-4"	1'-8"	2'-10 5/8"
M15(E)	8	2	# 4	9'-2"	WINGWALL - WING 2 (FF)	5'-10"	3'-4"	1'-8"	2'-10 5/8"
M16(E)	8	2	# 4	7'-4"	WINGWALL - WING 2 (FF)	4'-0"	3'-4"	1'-8"	2'-10 5/8"
M17(E)	8	8	# 5	16'-7"	WINGWALL - WING 2 (BF)	13'-3"	3'-4"	1'-8"	2'-10 5/8"
M18(E)	8	2	# 5	15'-6"	WINGWALL - WING 2 (BF)	12'-2"	3'-4"	1'-8"	2'-10 5/8"
M19(E)	8	2	# 5	13'-9"	WINGWALL - WING 2 (BF)	10'-5"	3'-4"	1'-8"	2'-10 5/8"
M20(E)	8	2	# 5	12'-0"	WINGWALL - WING 2 (BF)	8'-8"	3'-4"	1'-8"	2'-10 5/8"
M21(E)	8	2	# 5	10'-3"	WINGWALL - WING 2 (BF)	6'-11"	3'-4"	1'-8"	2'-10 5/8"
M22(E)	8	2	# 5	8'-6"	WINGWALL - WING 2 (BF)	5'-2"	3'-4"	1'-8"	2'-10 5/8"
M23(E)	8	5	# 4	21'-0"	WINGWALL - WING 3 (FF)	17'-8"	3'-4"	1'-8"	2'-10 5/8"
M24(E)	8	1	# 4	19'-8"	WINGWALL - WING 3 (FF)	16'-4"	3'-4"	1'-8"	2'-10 5/8"
M25(E)	8	1	# 4	16'-5"	WINGWALL - WING 3 (FF)	13'-1"	3'-4"	1'-8"	2'-10 5/8"
M26(E)	8	1	# 4	13'-1"	WINGWALL - WING 3 (FF)	9'-9"	3'-4"	1'-8"	2'-10 5/8"
M27(E)	8	1	# 4	9'-9"	WINGWALL - WING 3 (FF)	6'-5"	3'-4"	1'-8"	2'-10 5/8"
M28(E)	8	5	# 5	22'-1"	WINGWALL - WING 3 (BF)	18'-9"	3'-4"	1'-8"	2'-10 5/8"
M29(E)	8	1	# 5	20'-9"	WINGWALL - WING 3 (BF)	17'-5"	3'-4"	1'-8"	2'-10 5/8"
M30(E)	8	1	# 5	17'-6"	WINGWALL - WING 3 (BF)	14'-2"	3'-4"	1'-8"	2'-10 5/8"
M31(E)	8	1	# 5	14'-2"	WINGWALL - WING 3 (BF)	10'-10"	3'-4"	1'-8"	2'-10 5/8"
M32(E)	8	1	# 5	10'-10"	WINGWALL - WING 3 (BF)	7'-6"	3'-4"	1'-8"	2'-10 5/8"
T1(E)	8	2	# 6	23'-2"	WINGWALL - WING 1	21'-2"	2'-0"	0'-4 1/2"	1'-11 5/8"
T2(E)	8	4	# 6	14'-6"	WINGWALL - WING 2	12'-6"	2'-0"	0'-11 1/8"	1'-8 7/8"
T3(E)	8	2	# 6	19'-1"	WINGWALL - WING 3	17'-1"	2'-0"	0'-7"	1'-11"



TYPE 1



SHEET LOCATION:

FILE NAME: \$\$\$\$\$\$design\$file\$specification\$\$\$\$

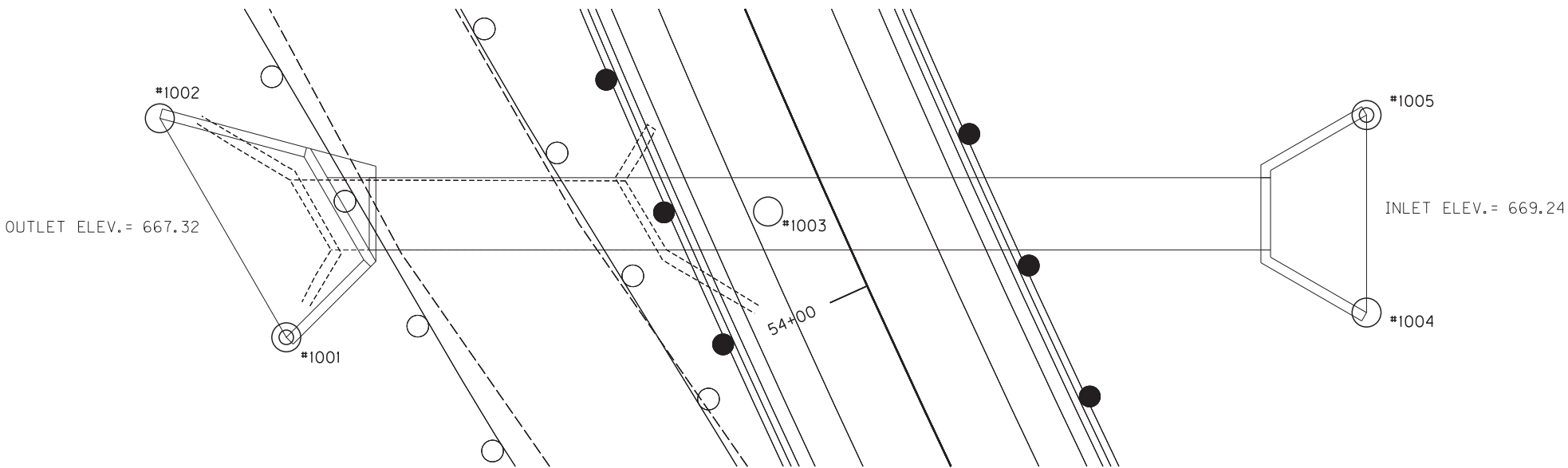
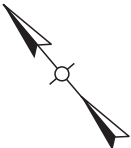
USERNAME: \$\$\$\$\$\$USER\$\$\$\$

DATE: \$\$\$\$\$\$DATE\$\$\$\$

E-SHEET NAME:

SUBSURFACE DATA

Plan Scale 1" = 10'



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

Hole No.
Station
Offset
Elev.
(NAVD 88
datum)

1001
54+58.52
80.39 ft. Lt.
670.92

1002
54+25.65
76.00 ft. Lt.
672.16

1003
54+15.00
8.29 ft. Lt.
668.11

1004
53+92.60
72.65 ft. Rt.
673.75

1005
56+66.87
61.00 ft. Rt.
668.50

N.R.
(664.72)

D₅₀
(mm) w% LI
0.188 24 0.04 { N=4 } A-6(3), SC, S+C=46(32+14)
0.048 31 0.70 { N=5 }
N.R. (661.16) { N=8 } A-6(5), CL, S+C=55(40+15)
N.R. (661.16) { N=10 }

N.R.
(662.11)

N.R.
(668.65)

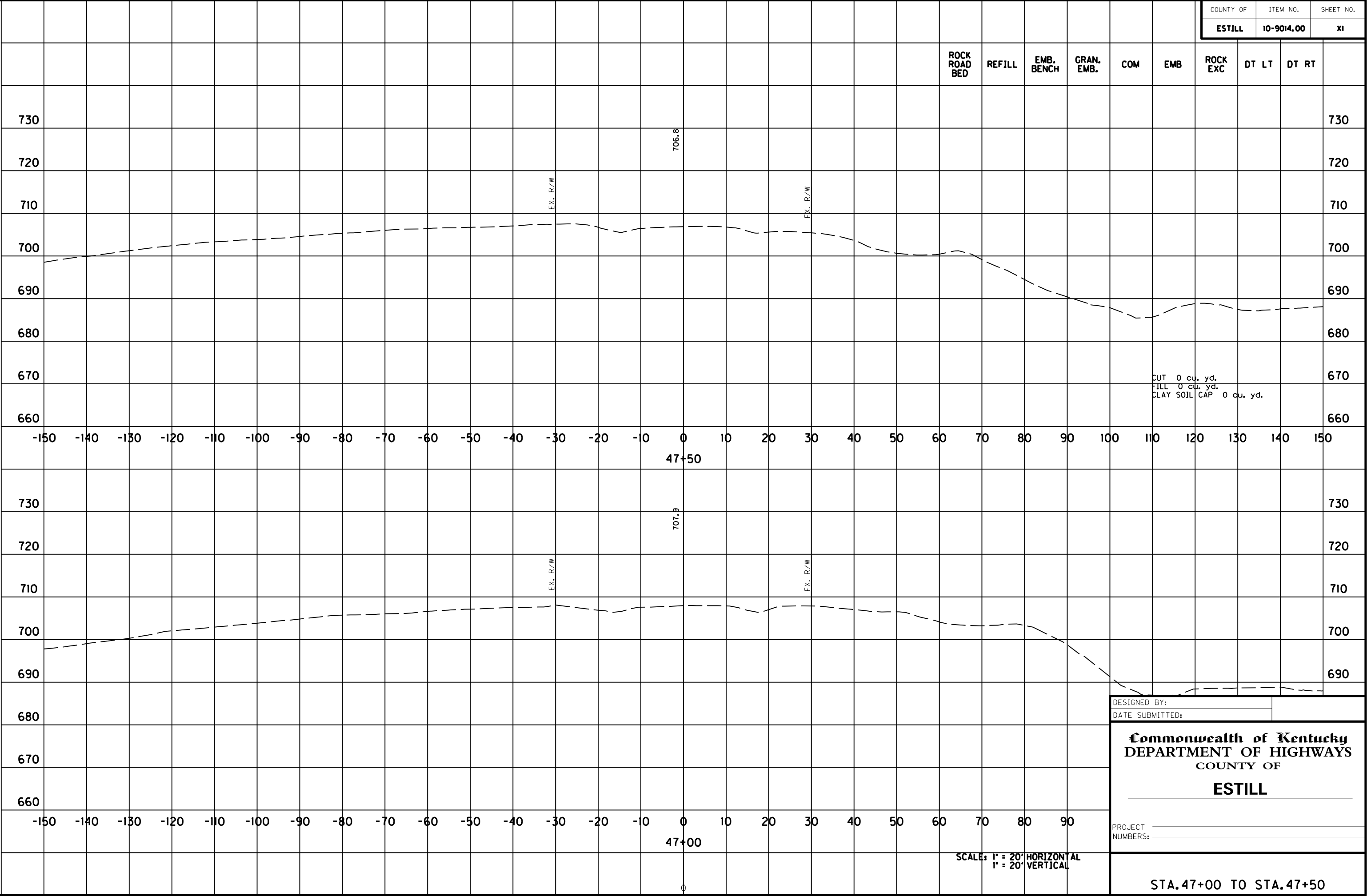
D₅₀
(mm) w% LI
1.379 22 -0.11 { N=11 } A-2-6(0), SC, S+C=30(22+8)
2.216 22 0.02 { N=3 }
N.R. (662.50) { N=15 } A-2-6(0), SC, S+C=24(16+7)
N.R. (662.50) { N=10 }

Datum

S-118-19

ITEM NUMBER
10-9014.00

DATE: 05-FEBRUARY-2020	CHECKED BY:
DESIGNED BY:	
DETAILED BY: R. McDONALD	R. McDONALD
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY ESTILL	
ROUTE KY 82	CROSSING 10' x 8' RCBC Sta. 54+05.00
SUBSURFACE DATA	
PREPARED BY Division of Structural Design	
GEOTECHNICAL BRANCH	
SHEET NO. S8	DRAWING NO. 28454



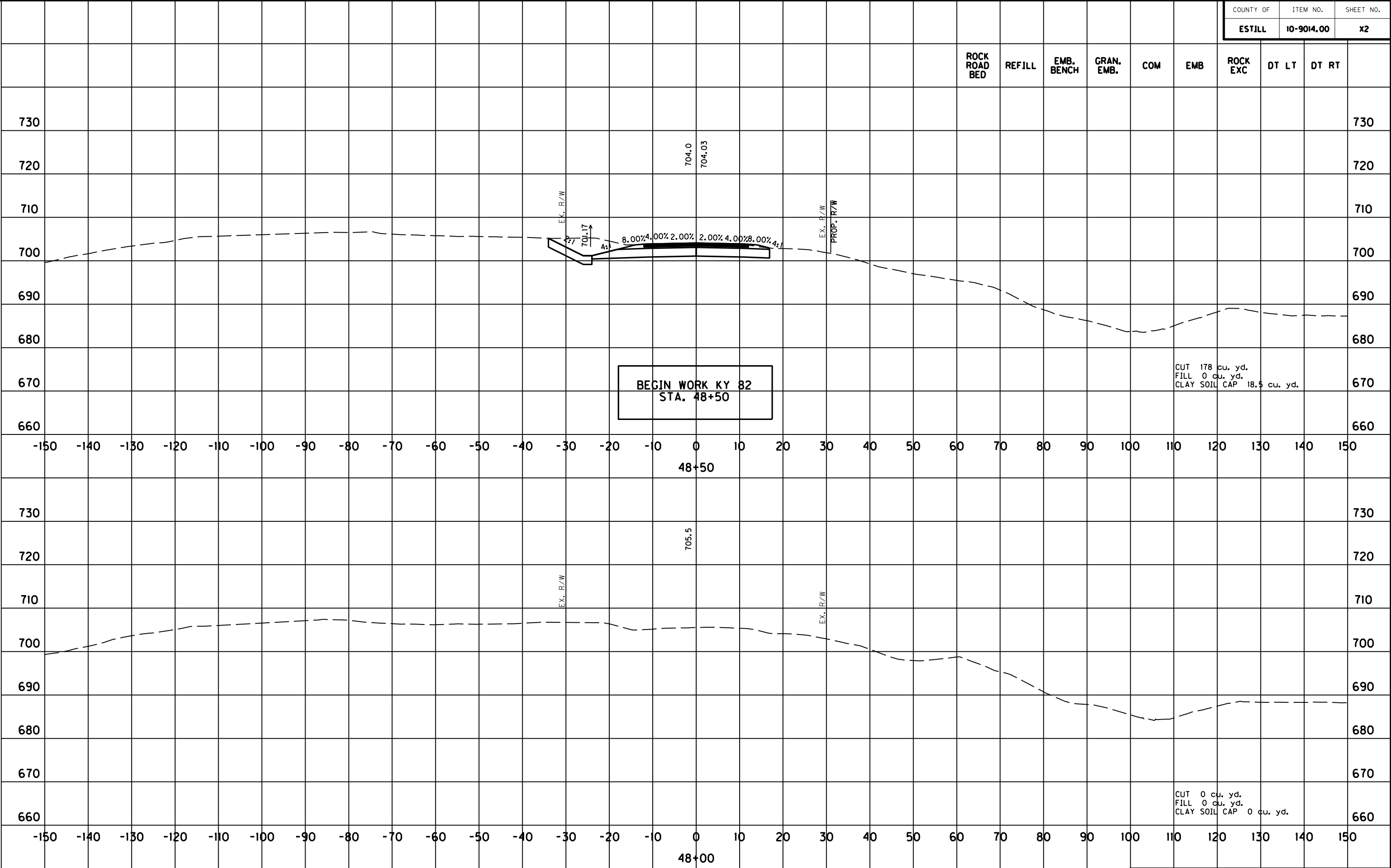
FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

E-SHEET NAME:

Power InRoads v8.11.9.337

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X2



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

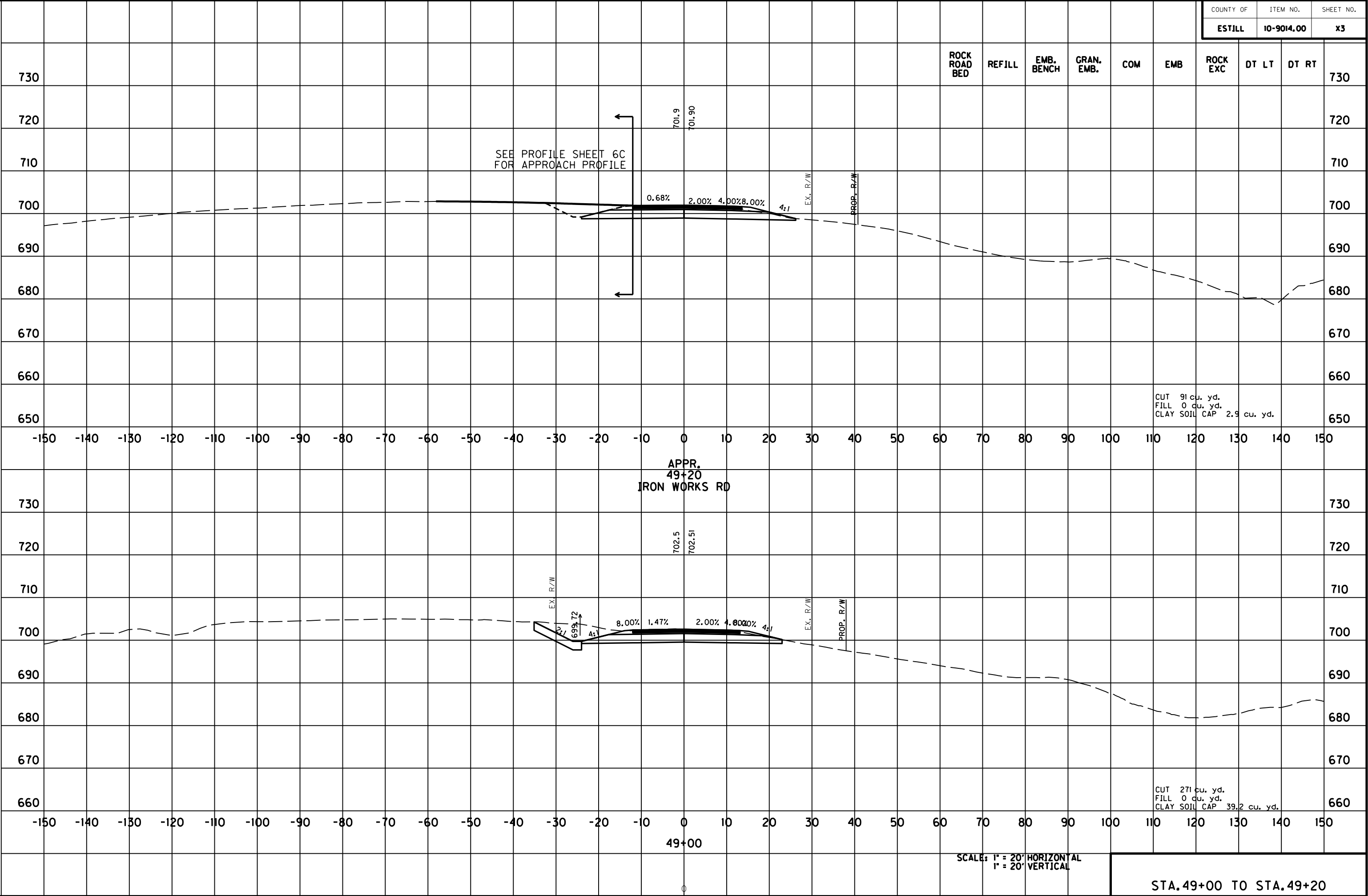
STA. 48+00 TO STA. 48+50

FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CAD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

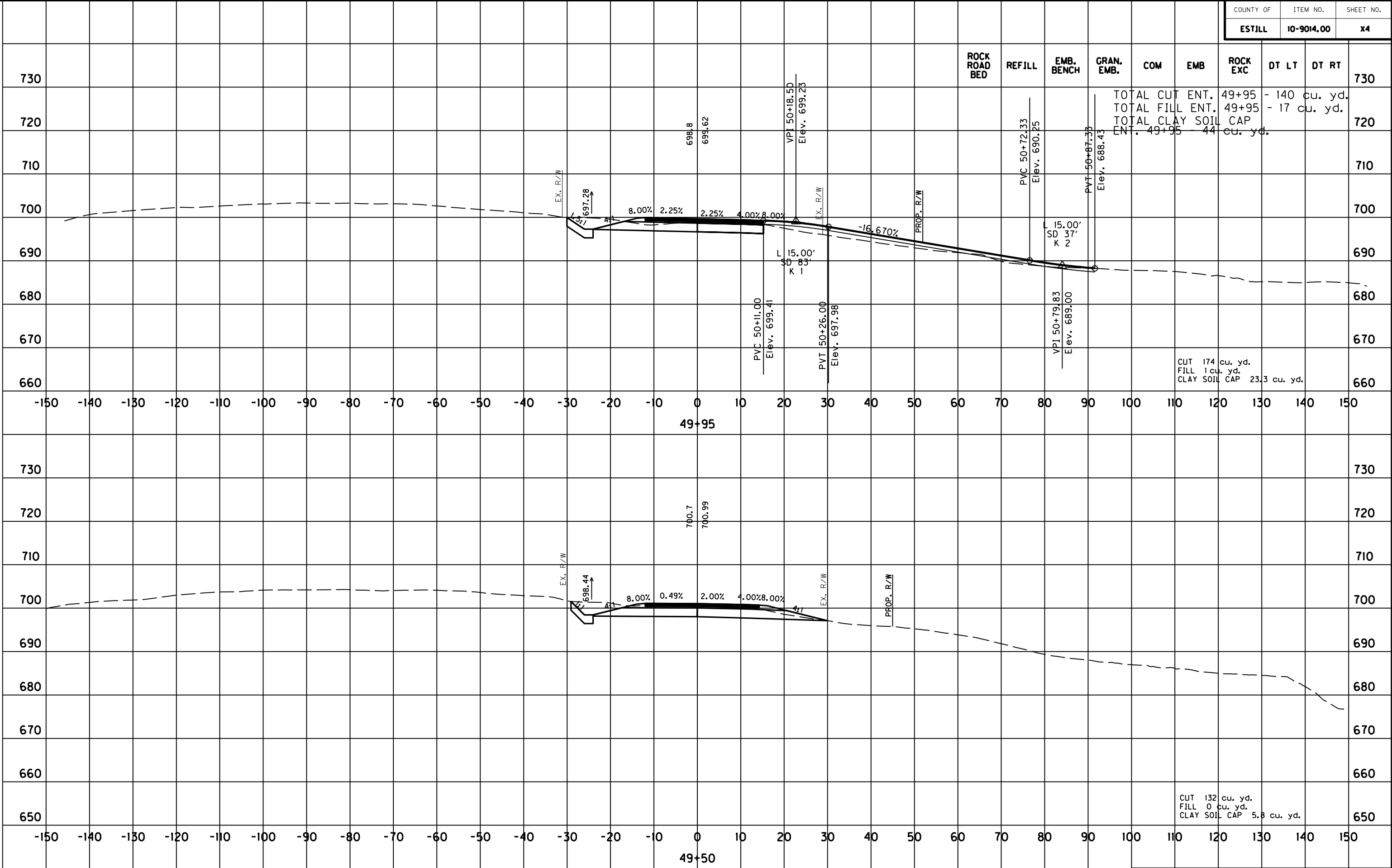
E-SHEET NAME:

Power InRoads v8.11.9.337



Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: December 21, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\VCADD\CURRENT DRAWINGS\WORKING DRAWINGS\XSPRINT4-5.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X4

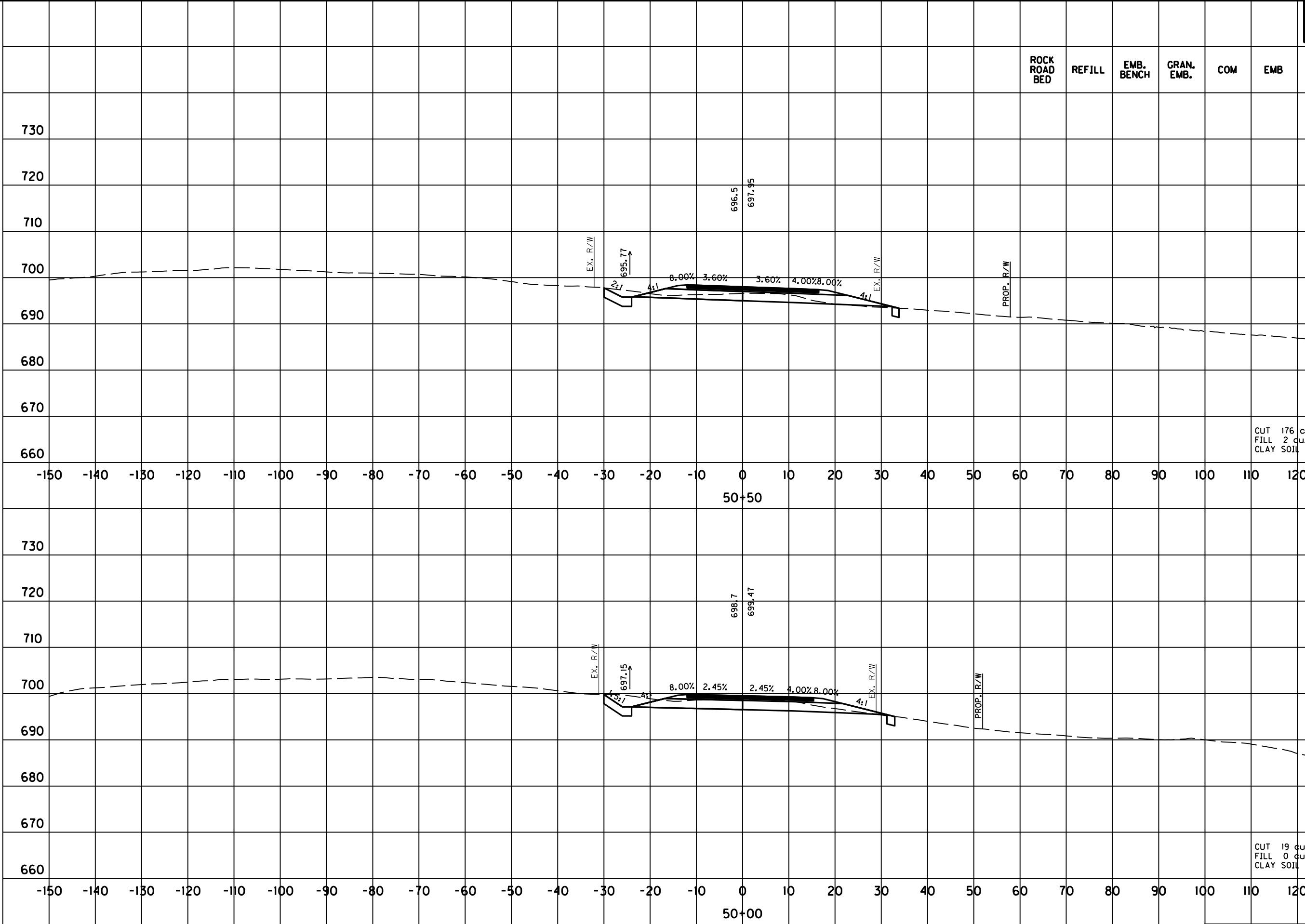


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 49+50 TO STA. 49+95

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: December 21, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\CURRENT DRAWINGS\WORKING DRAWINGS\XSPRINT4-5.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X5

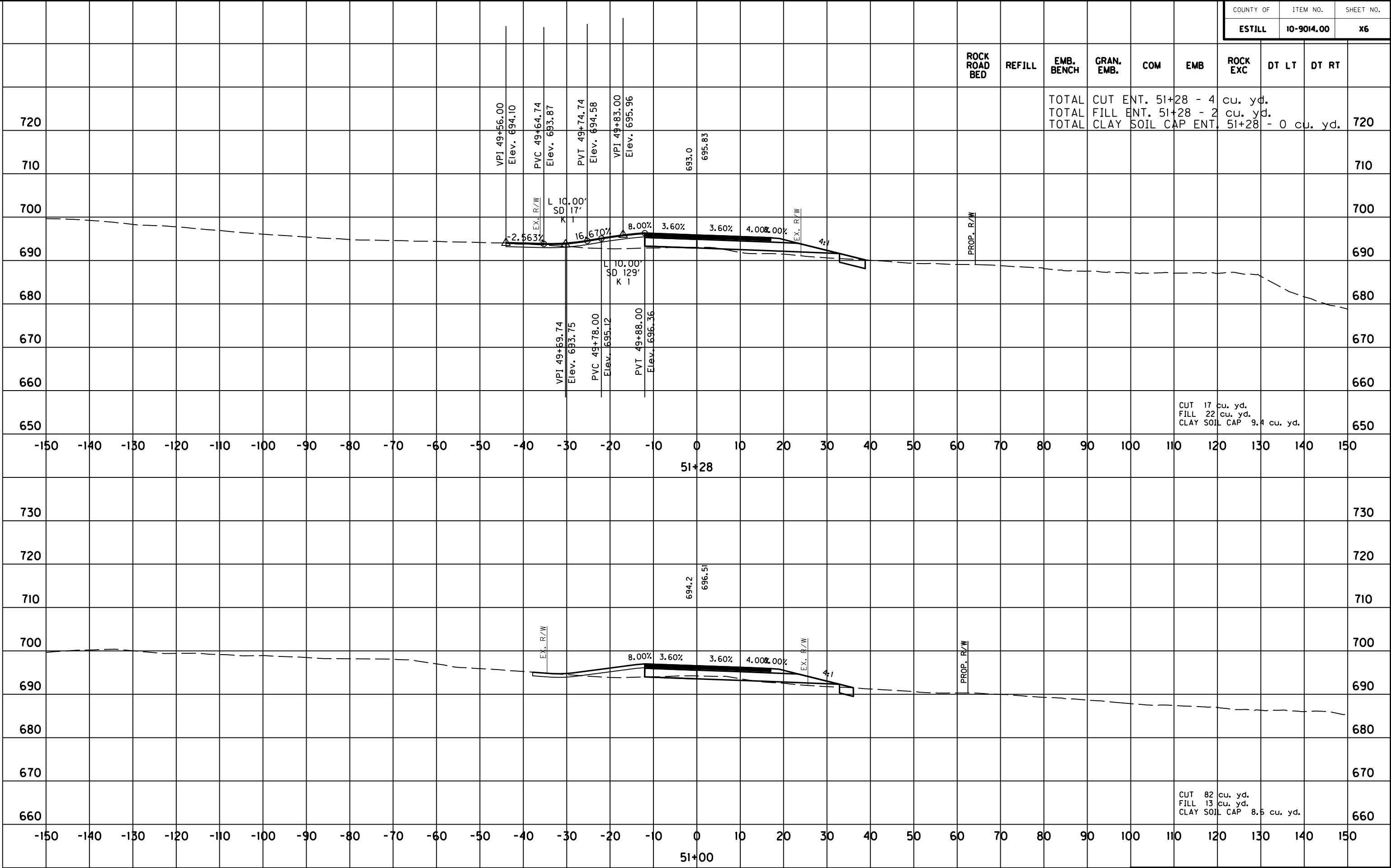


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 50+00 TO STA. 50+50

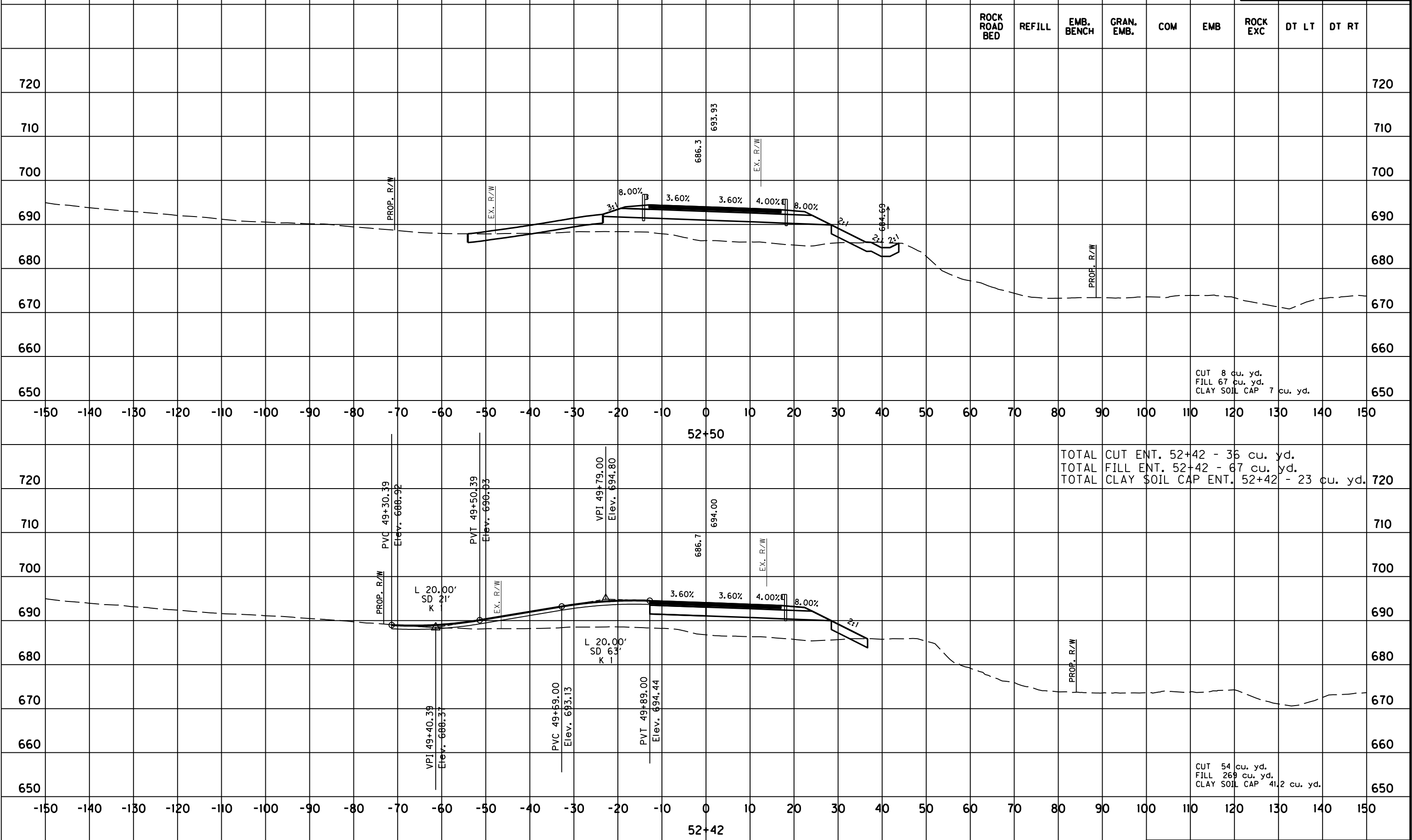
Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\CAD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X6



SCALE: 1" = 20'	HORIZONTAL 1" = 20'	VERTICAL	STA. 51+50 TO STA. 52+00
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COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X8



CUT 8 cu. yd.
FILL 67 cu. yd.
CLAY SOIL CAP 7 cu. yd.

TOTAL CUT ENT. 52+42 - 36 cu. yd.
TOTAL FILL ENT. 52+42 - 67 cu. yd.
TOTAL CLAY SOIL CAP ENT. 52+42 - 23 cu. yd.

CUT 54 cu. yd.
FILL 269 cu. yd.
CLAY SOIL CAP 41.2 cu. yd.

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 52+42 TO STA. 52+50

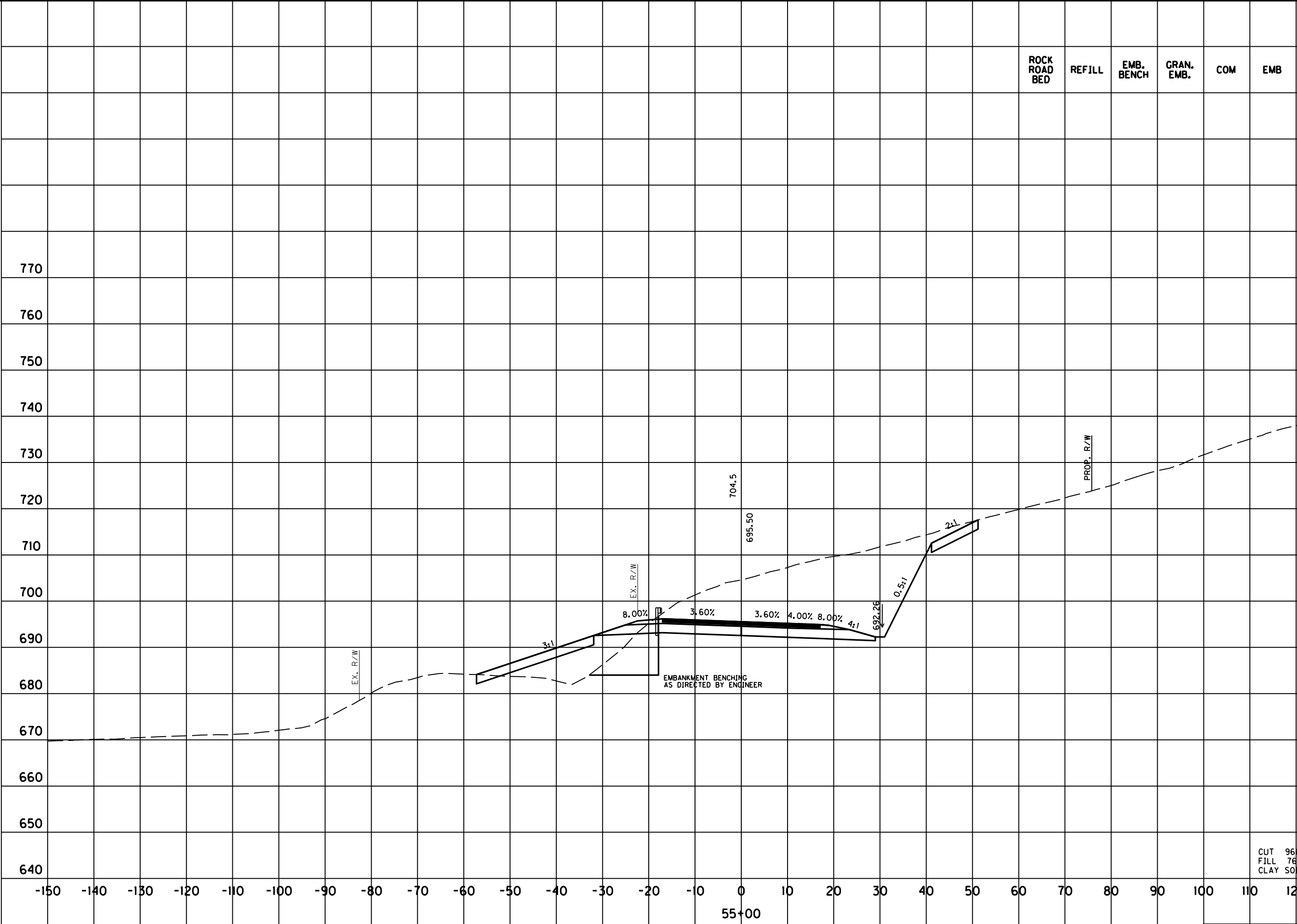
STA.53+00 TO STA.53+50

STA.54+00 TO STA.54+00

STA.54+50 TO STA.54+50

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

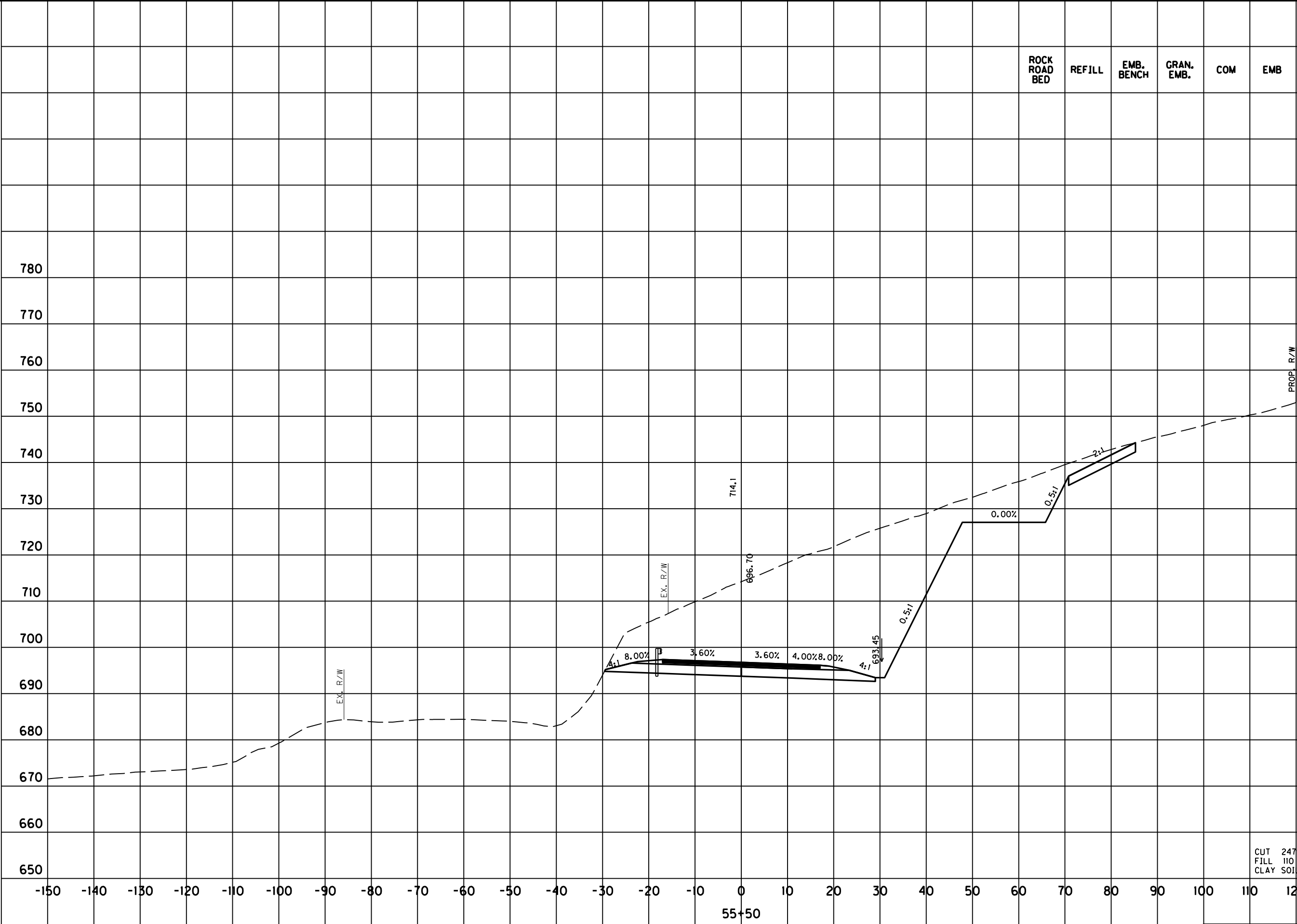
COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X12



STA. 55+00 TO STA. 55+00

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X13

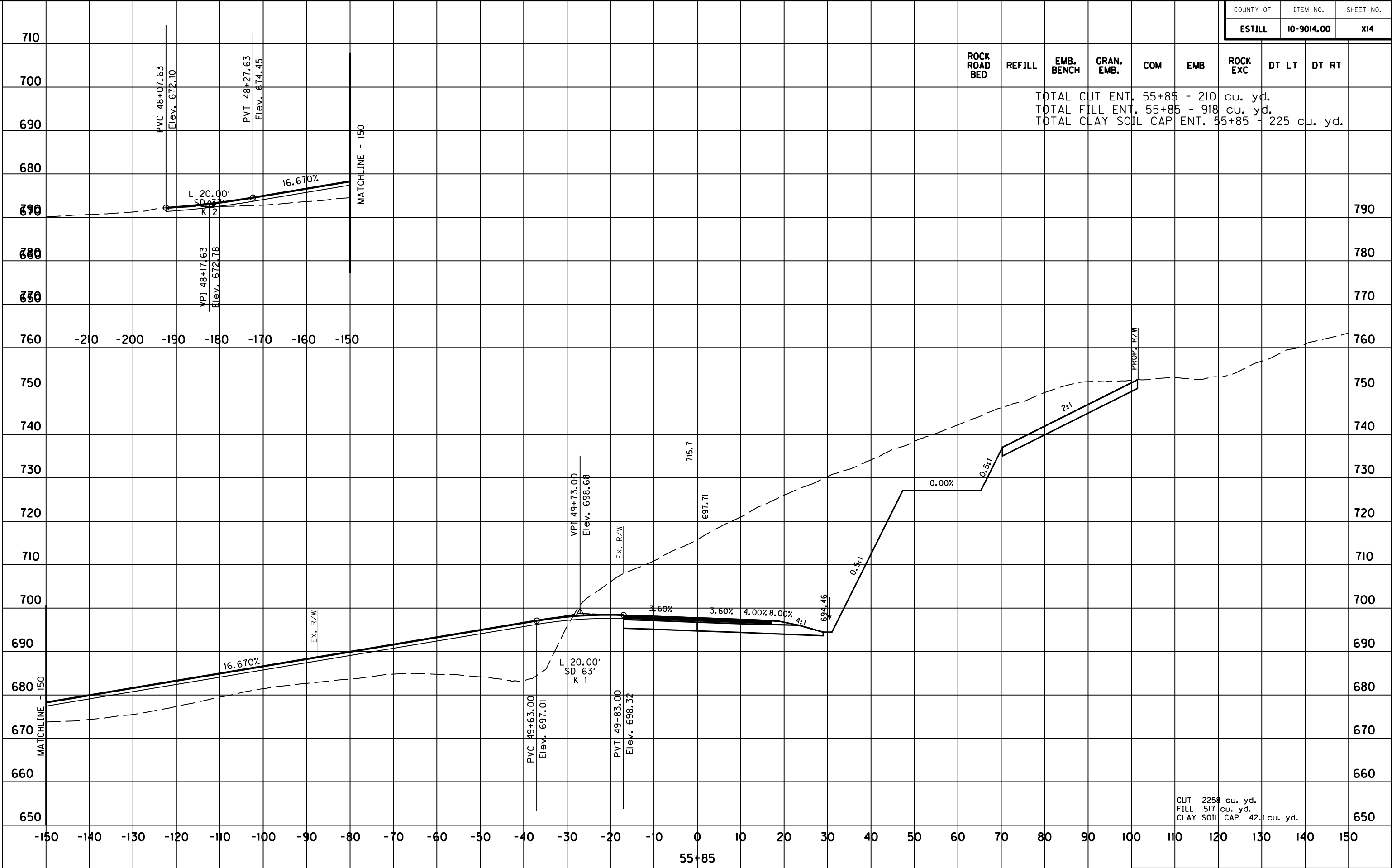


CUT 2479 cu. yd.
FILL 110 cu. yd.
CLAY SOIL CAP 92.3 cu. yd.

STA. 55+50 TO STA. 55+50

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\CAD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X14



TOTAL CUT ENT. 55+85 - 210 cu. yd.
TOTAL FILL ENT. 55+85 - 918 cu. yd.
TOTAL CLAY SOIL CAP ENT. 55+85 - 225 cu. yd.

CUT 2258 cu. yd.
FILL 517 cu. yd.
CLAY SOIL CAP 42.1 cu. yd.

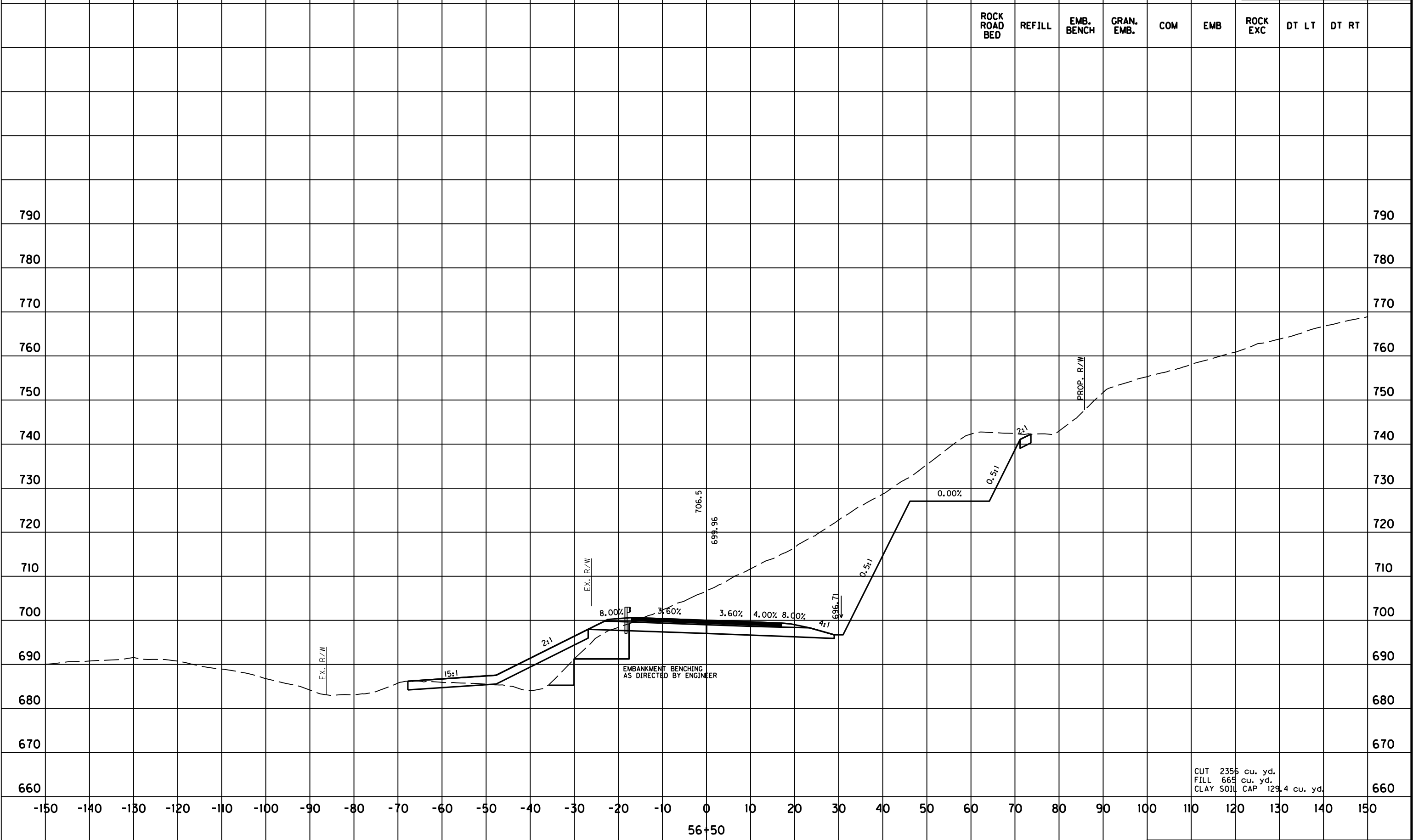
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 55+85 TO STA. 55+85

STA.56+00 TO STA.56+00

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

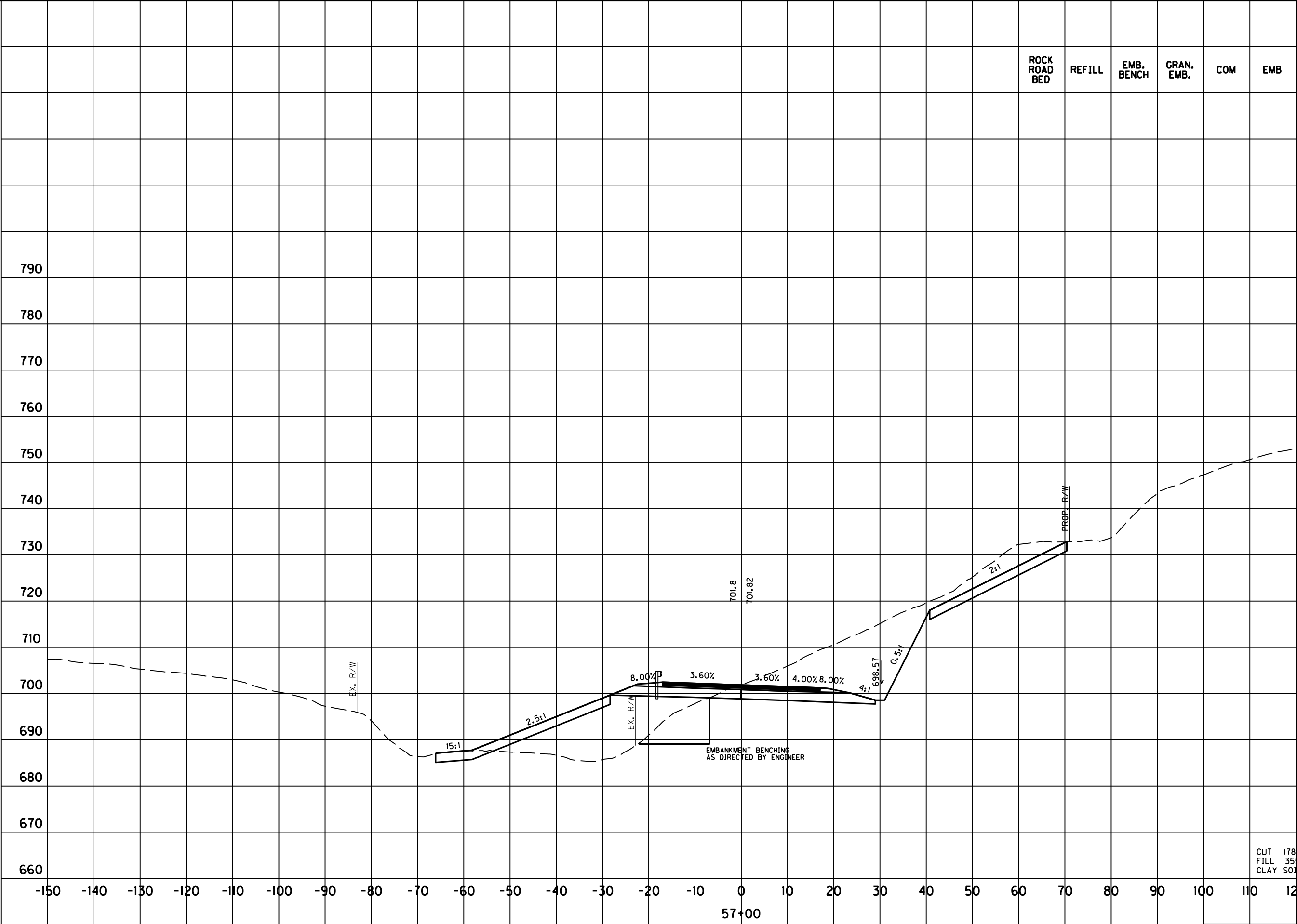
COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X16



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL
STA. 56+50 TO STA. 56+50

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X17



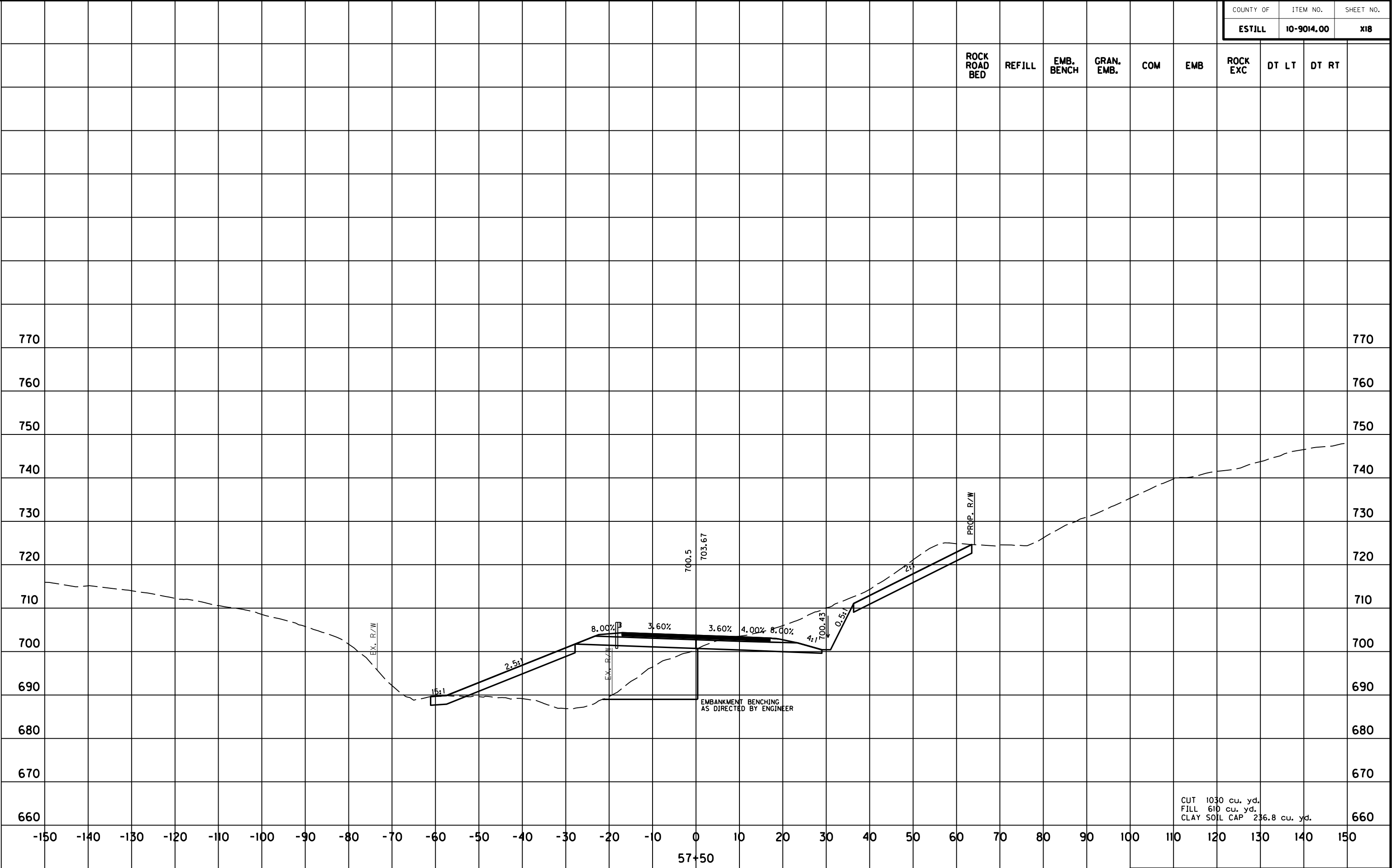
CUT 1788 cu. yd.
FILL 355 cu. yd.
CLAY SOIL CAP 205.1 cu. yd.

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 57+00 TO STA. 57+00

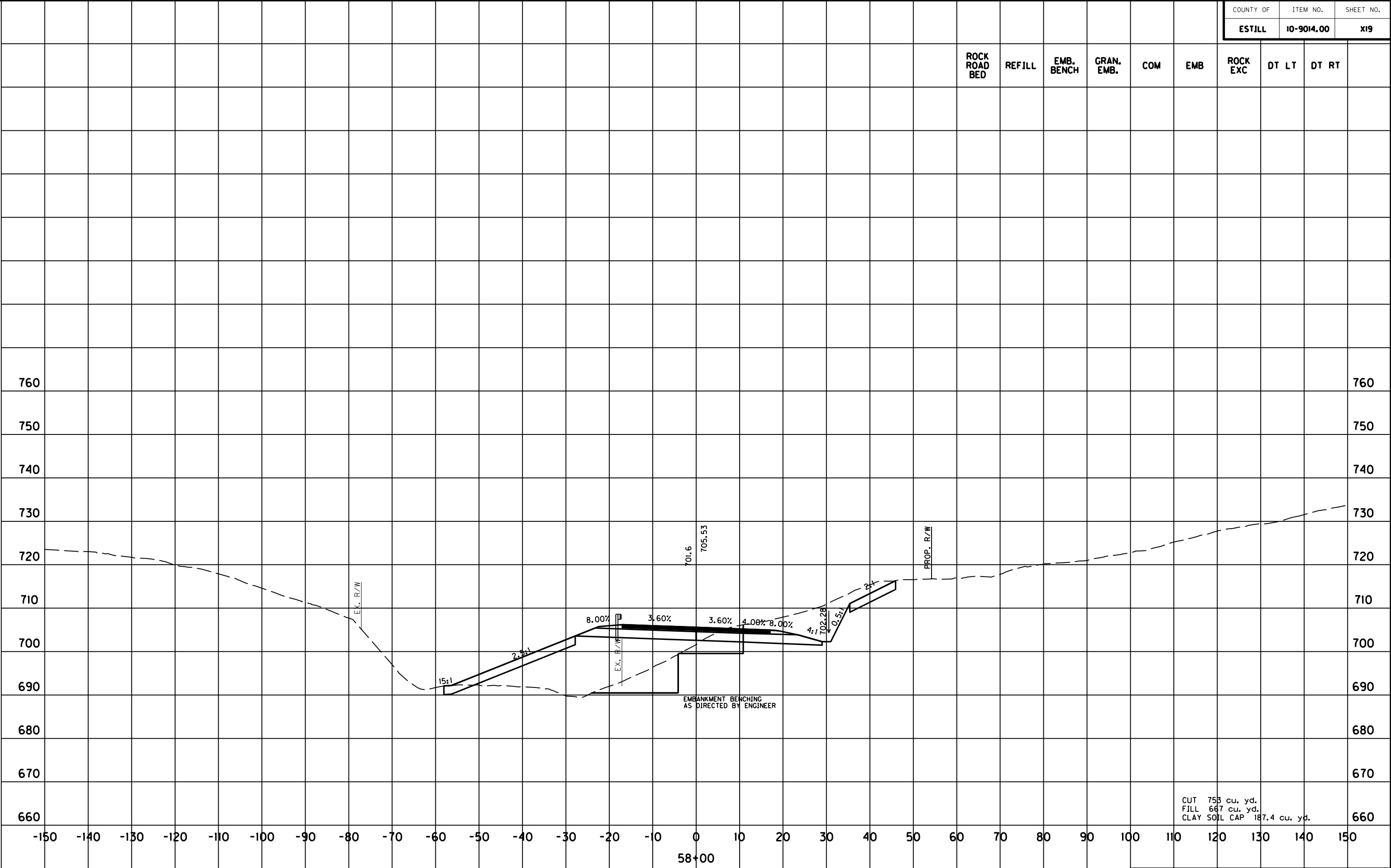
Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X18



Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X19



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL
STA. 58+00 TO STA. 58+00

CUT	565 cu. yd.
FILL	602 cu. yd.
CLAY SOIL CAP	146.1 cu. yd.

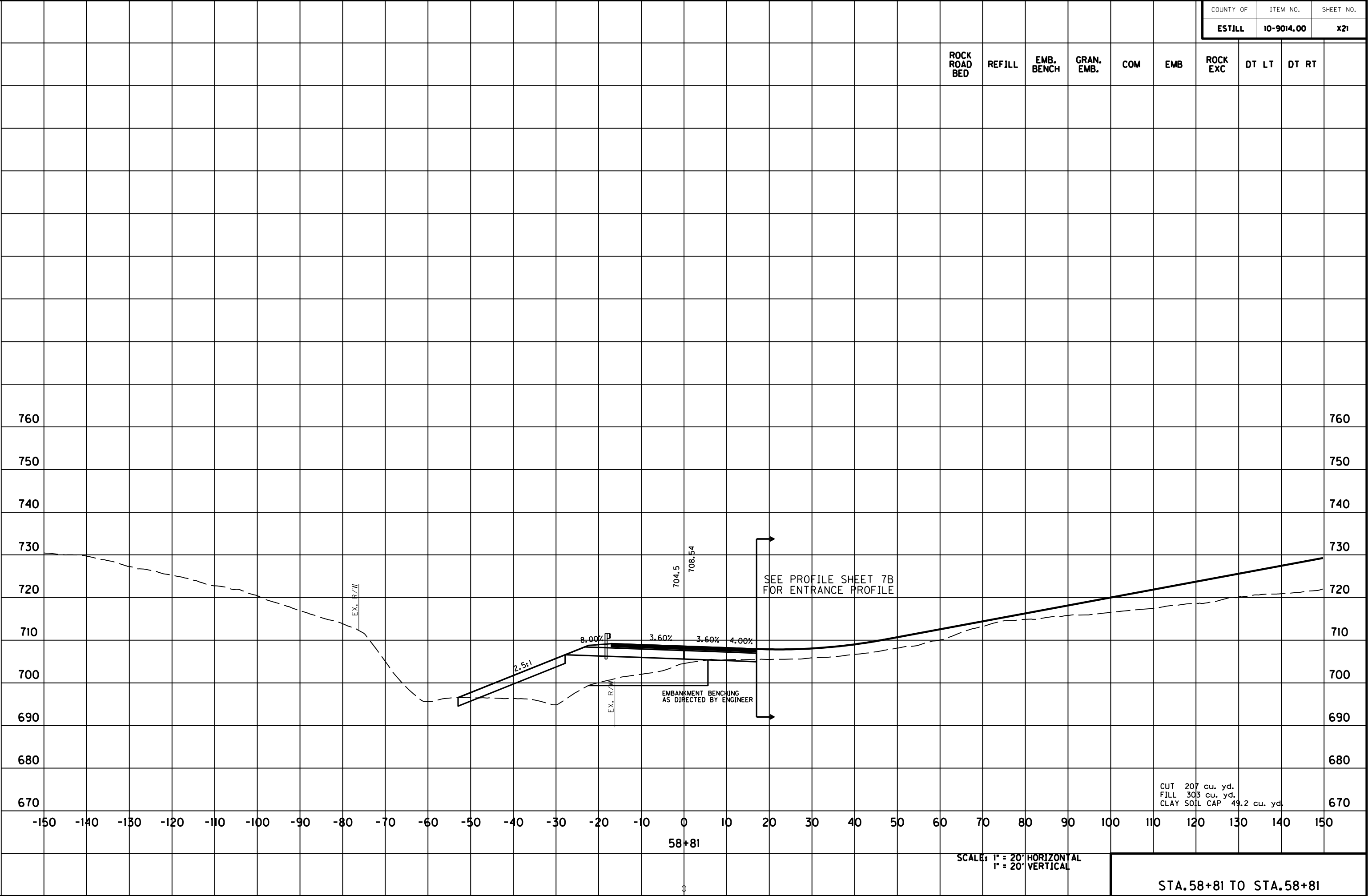
STA.58+50 TO STA.58+50

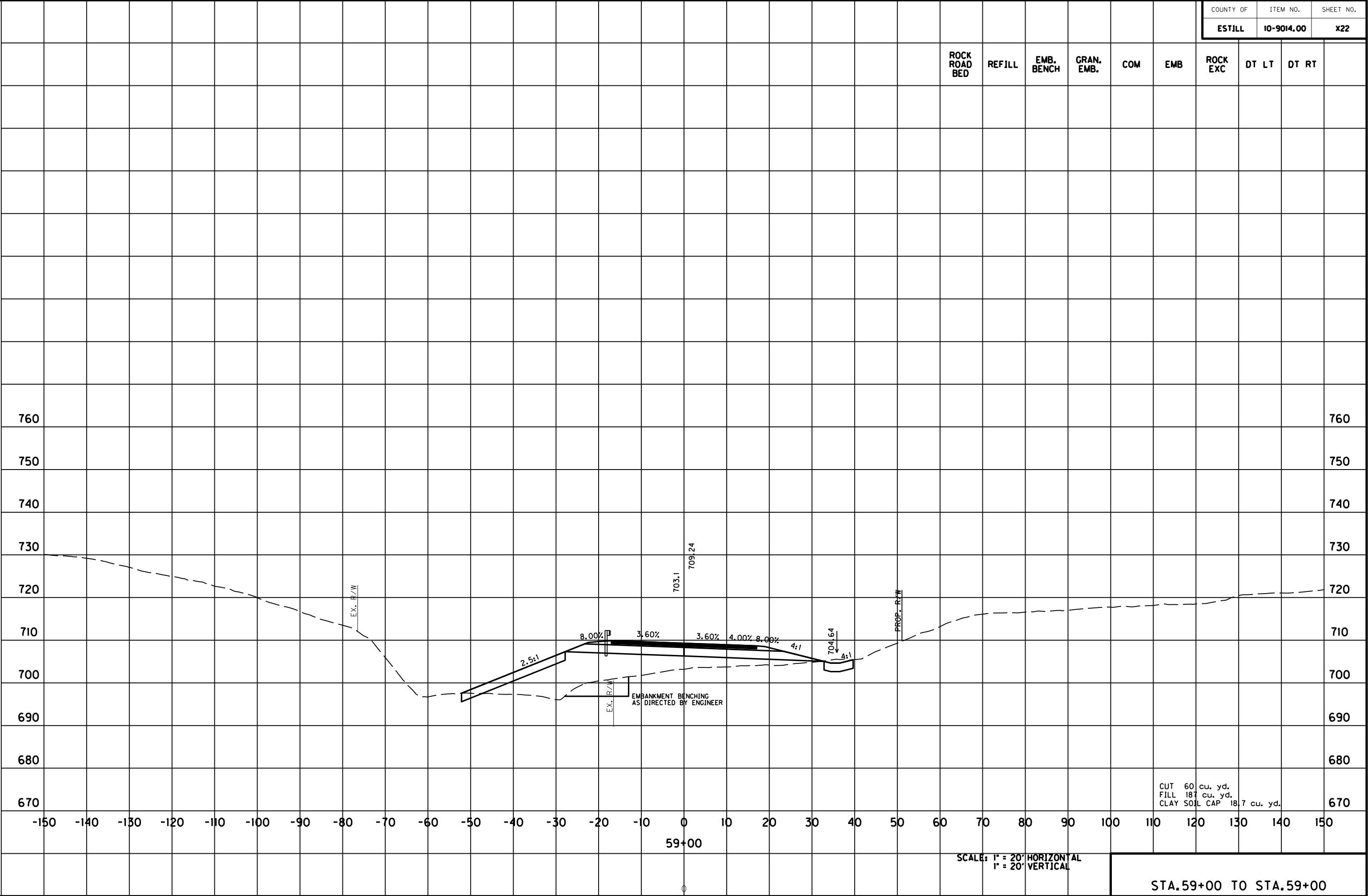
FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

E-SHEET NAME:

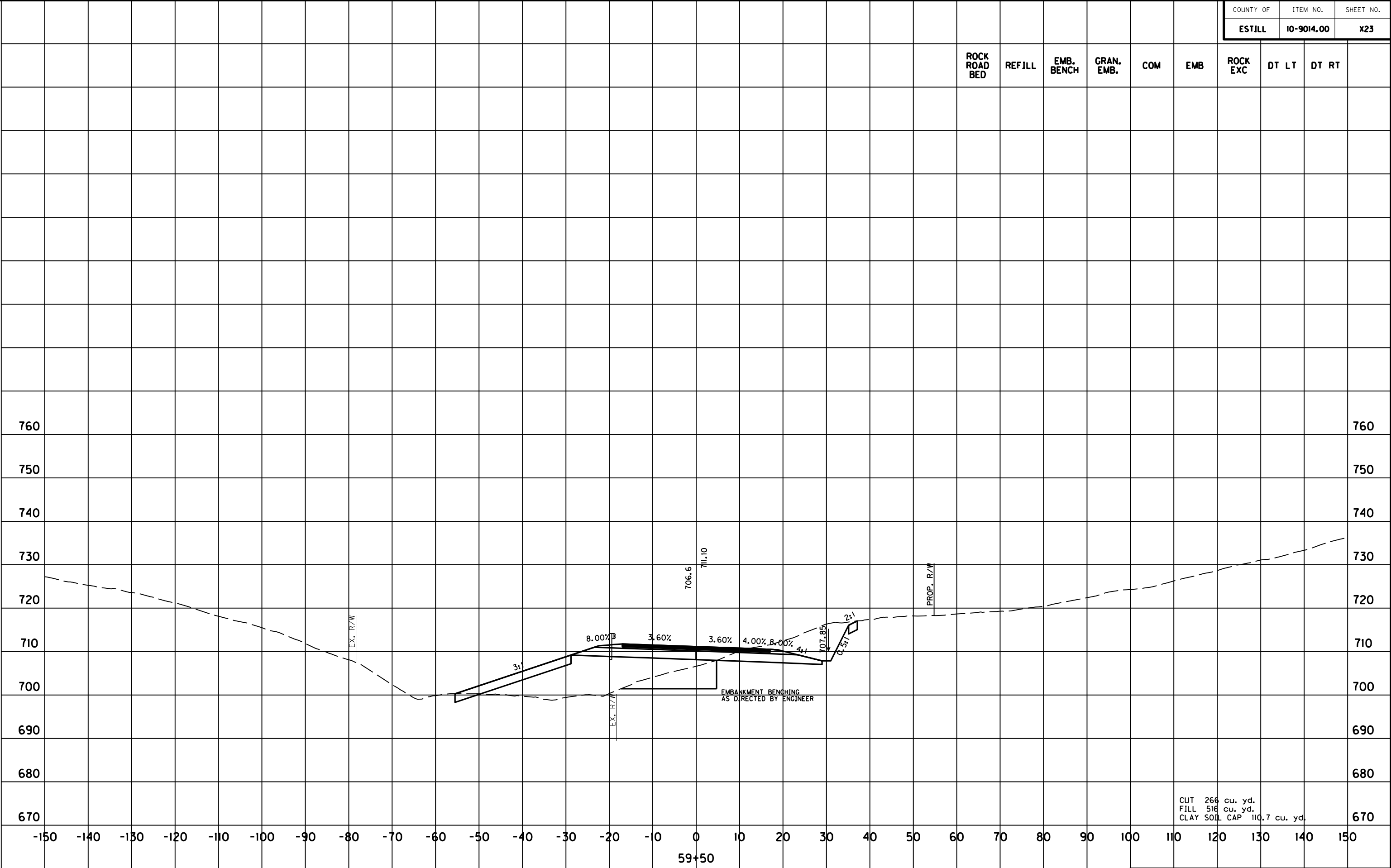
Power InRoads v8.11.9.337





Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X23

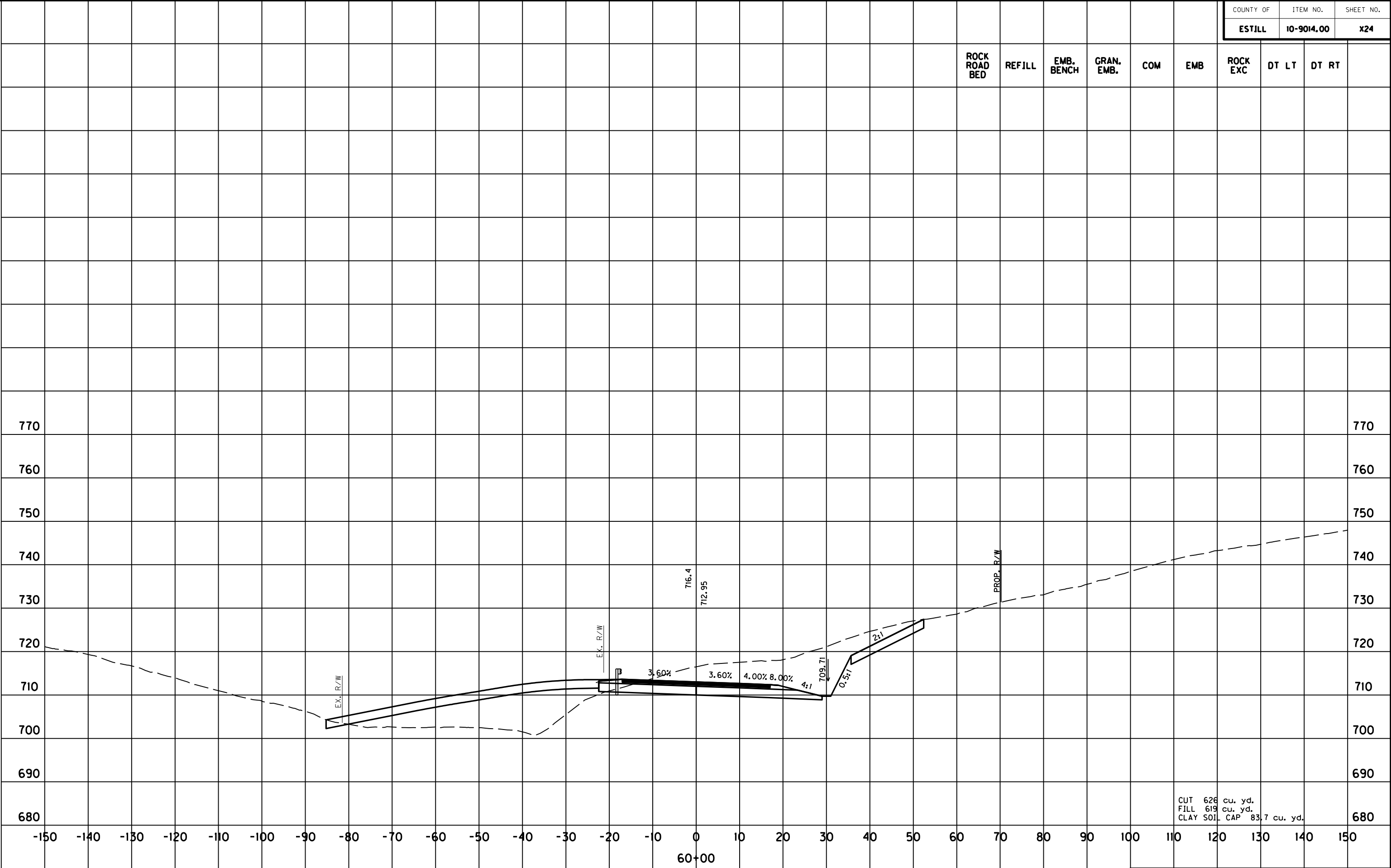


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 59+50 TO STA. 59+50

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X24



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 60+00 TO STA. 60+00

SCALE: 1" = 20' HORIZONTAL 1" = 20' VERTICAL	STA. 60+14 TO STA. 60+14
---	--------------------------

STA.60+50 TO STA.60+50

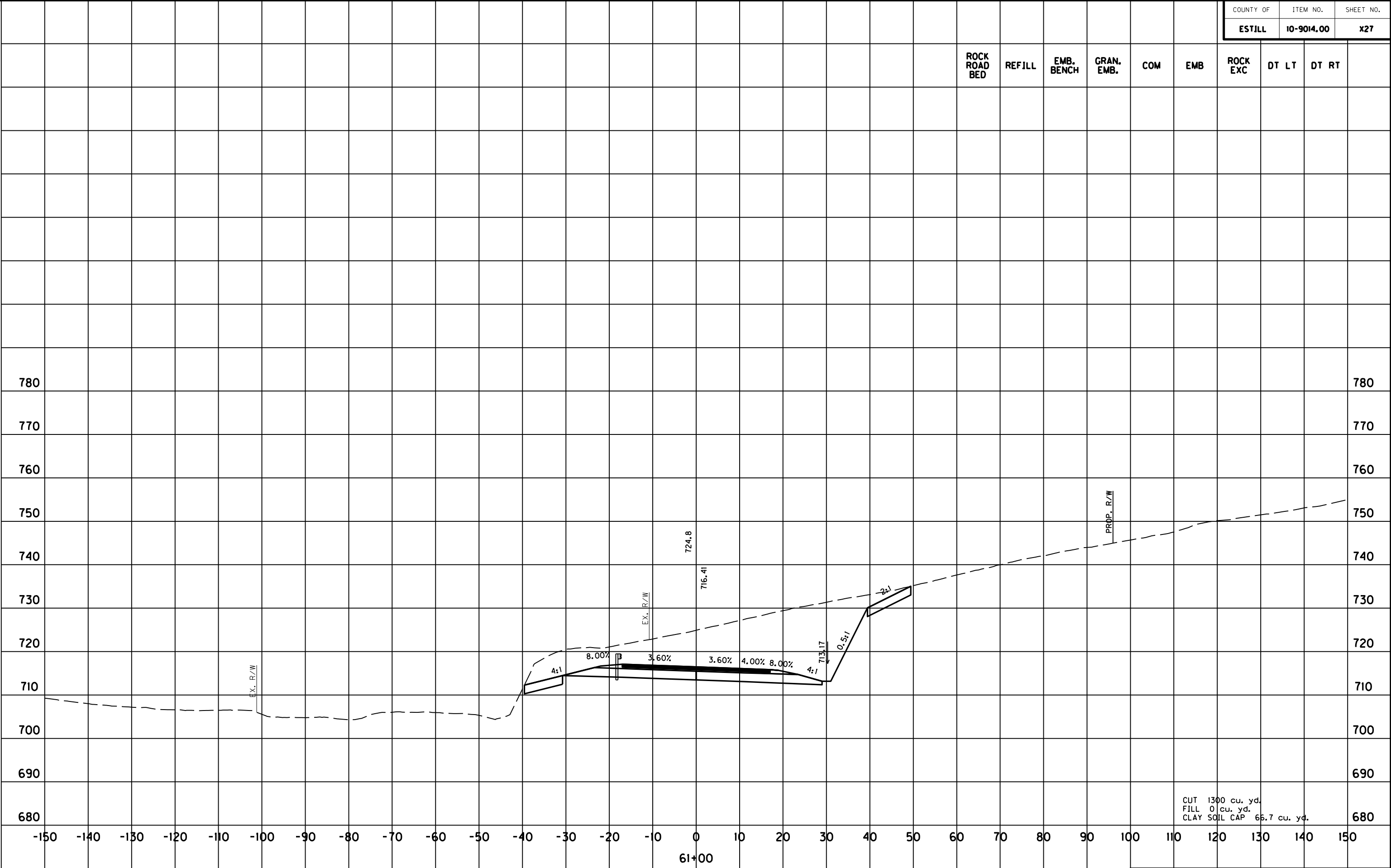
FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

E-SHEET NAME:

Power InRoads v8.11.9.337

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X27



STA. 61+00 TO STA. 61+00

STA.61+50 TO STA.61+50

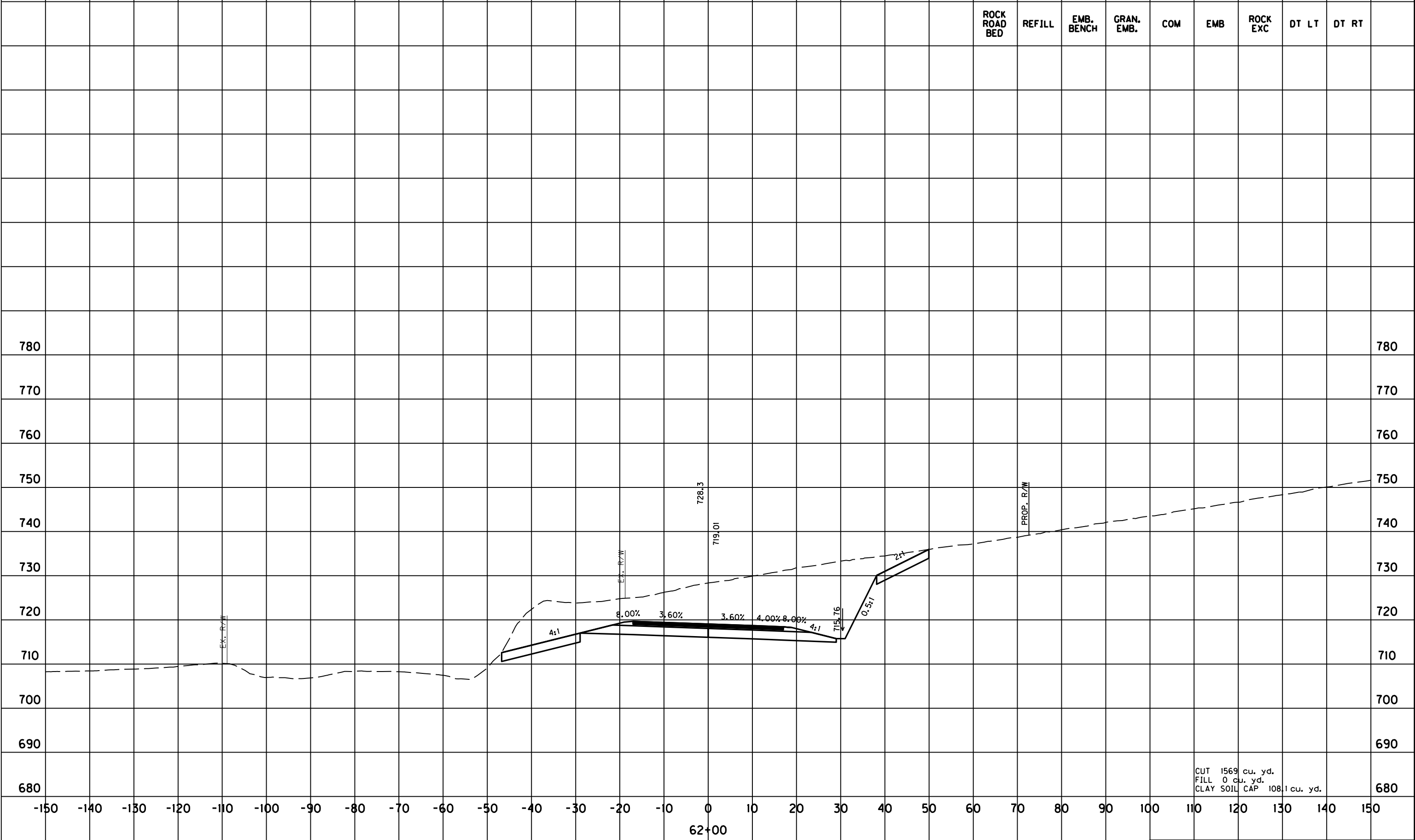
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

Power InRoads v8.11.9.337 E-SHEET NAME:

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X29



CUT 1569 cu. yd.
FILL 0 cu. yd.
CLAY SOIL CAP 108.1 cu. yd.

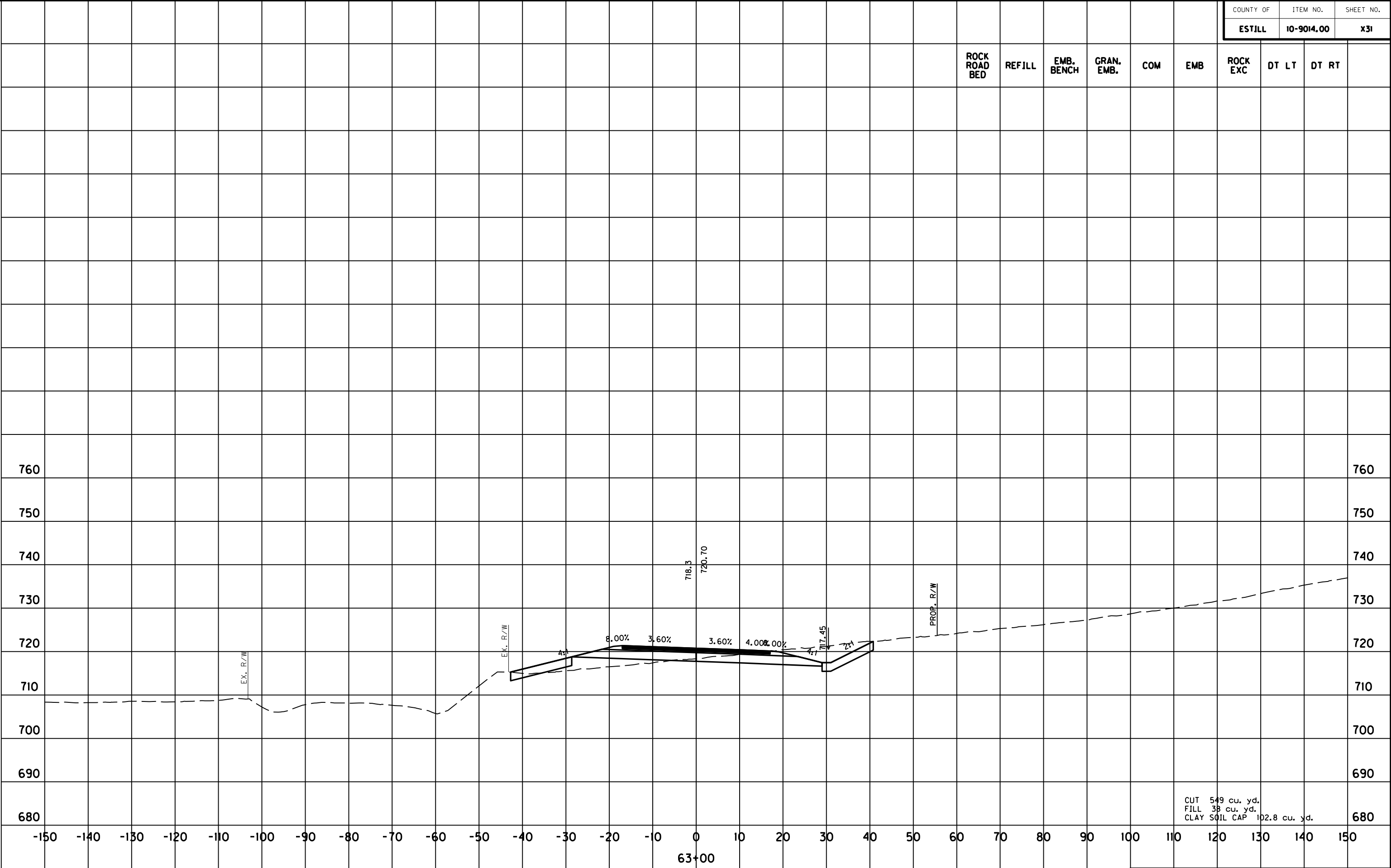
SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 62+00 TO STA. 62+00

STA.62+50 TO STA.62+50

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X31

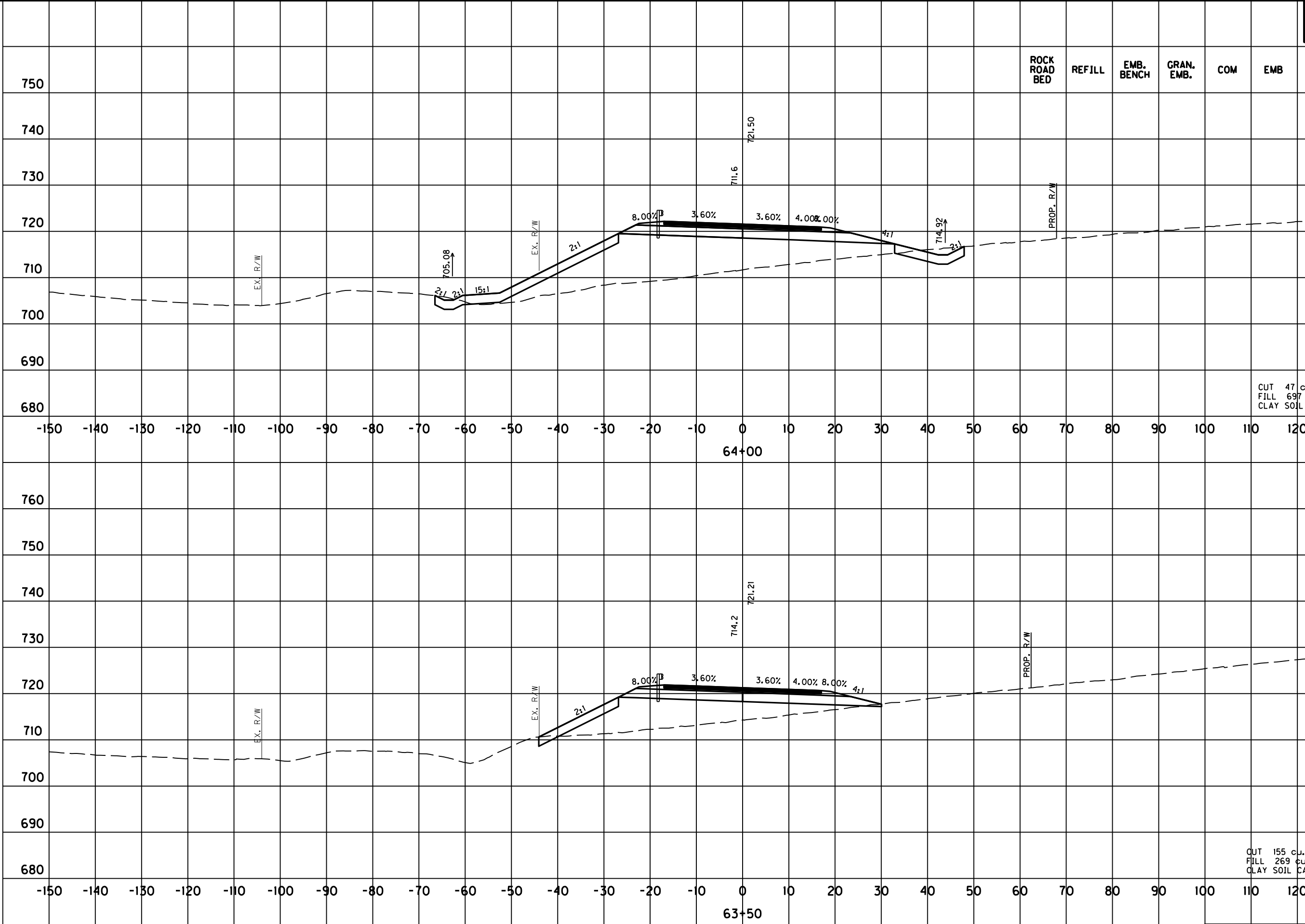


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 63+00 TO STA. 63+00

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\CAD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X32

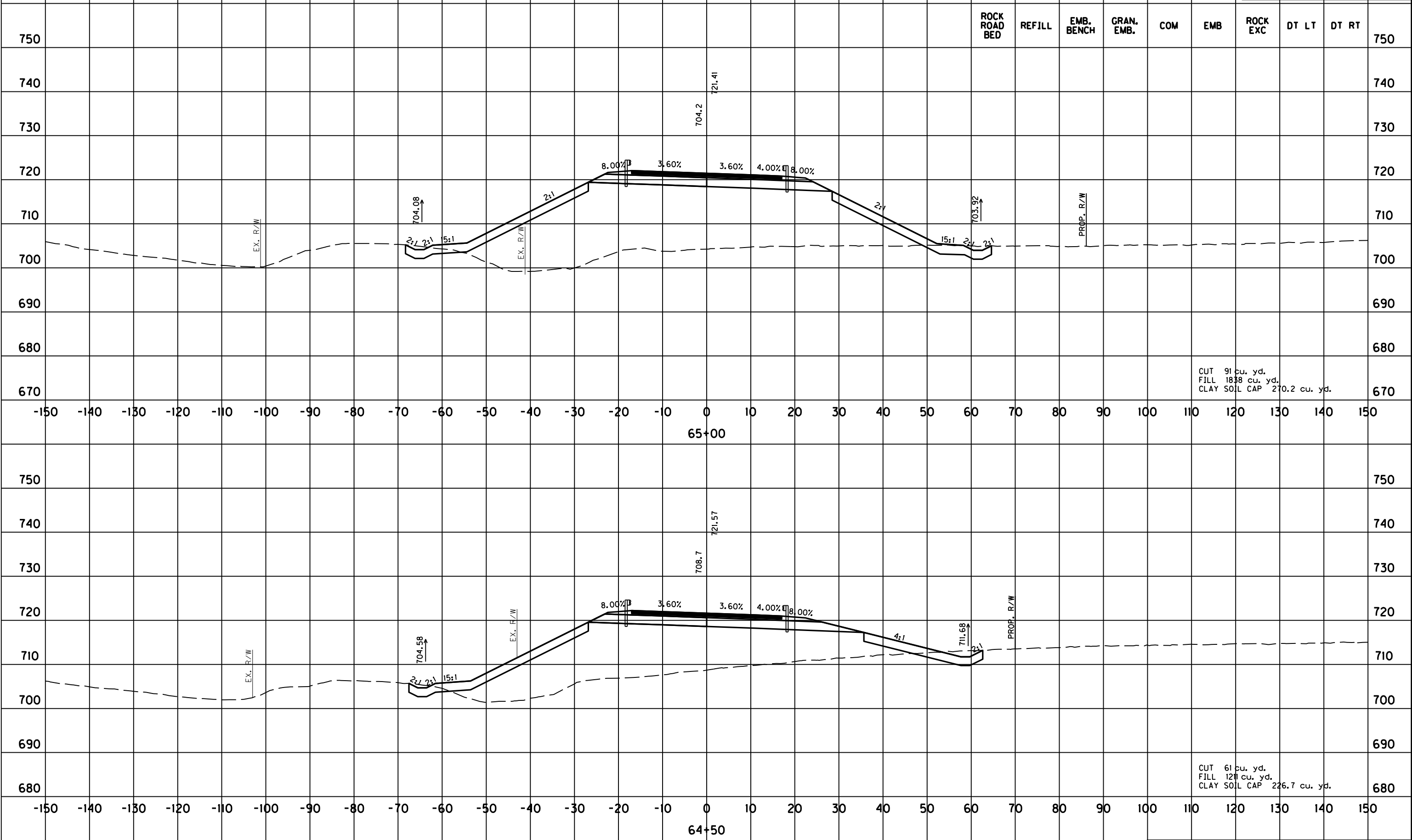


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 63+50 TO STA. 64+00

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X33



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 64+50 TO STA. 65+00

CUT	107	cu. yd.	
FILL	2662	cu. yd.	
CLAY SOIL CAP	325.6	cu. yd.	

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

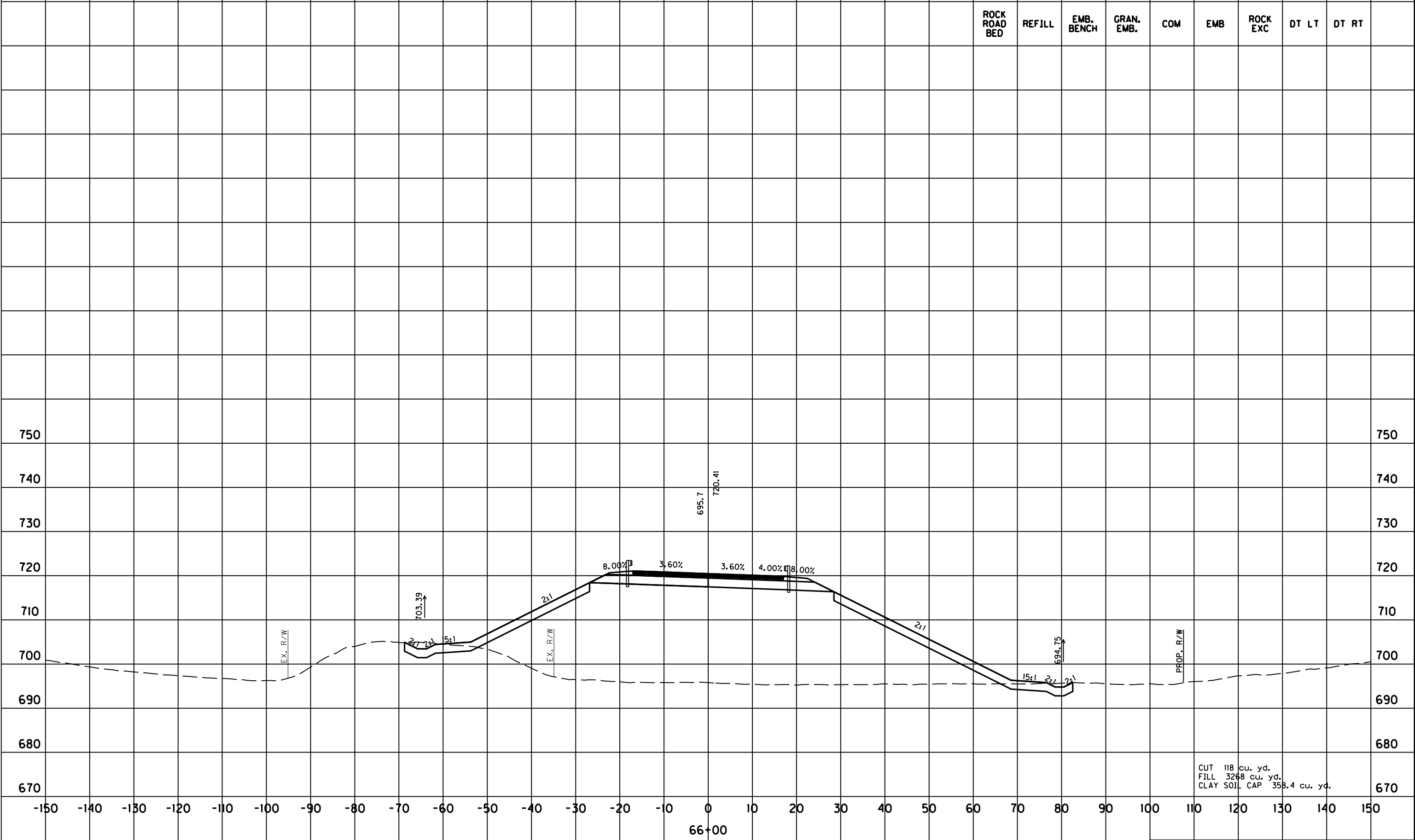
STA.65+50 TO STA.65+50

FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

Power InRoads v8.11.9.337 E-SHEET NAME:

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X35

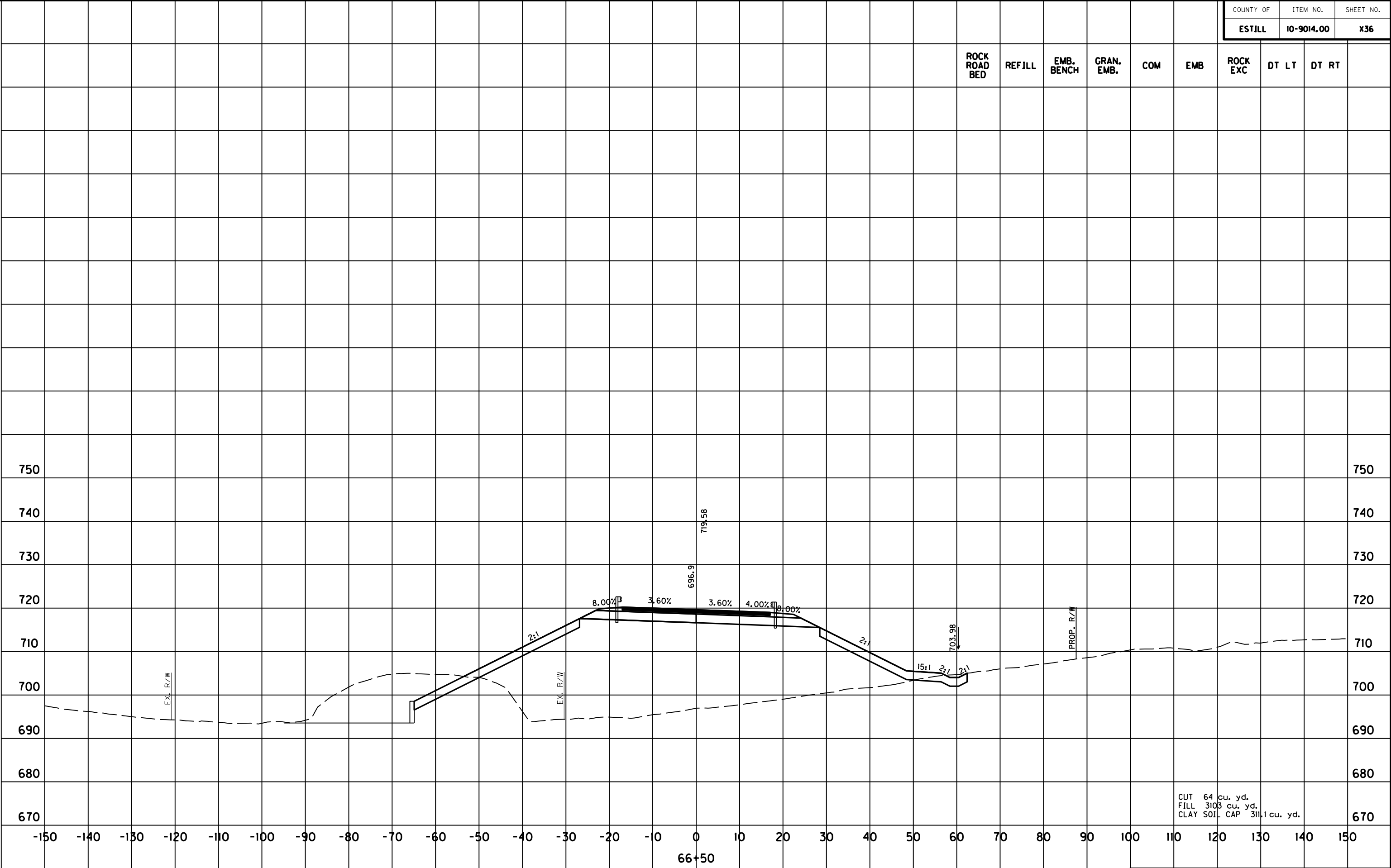


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 66+00 TO STA. 66+00

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X36



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 66+50 TO STA. 66+50

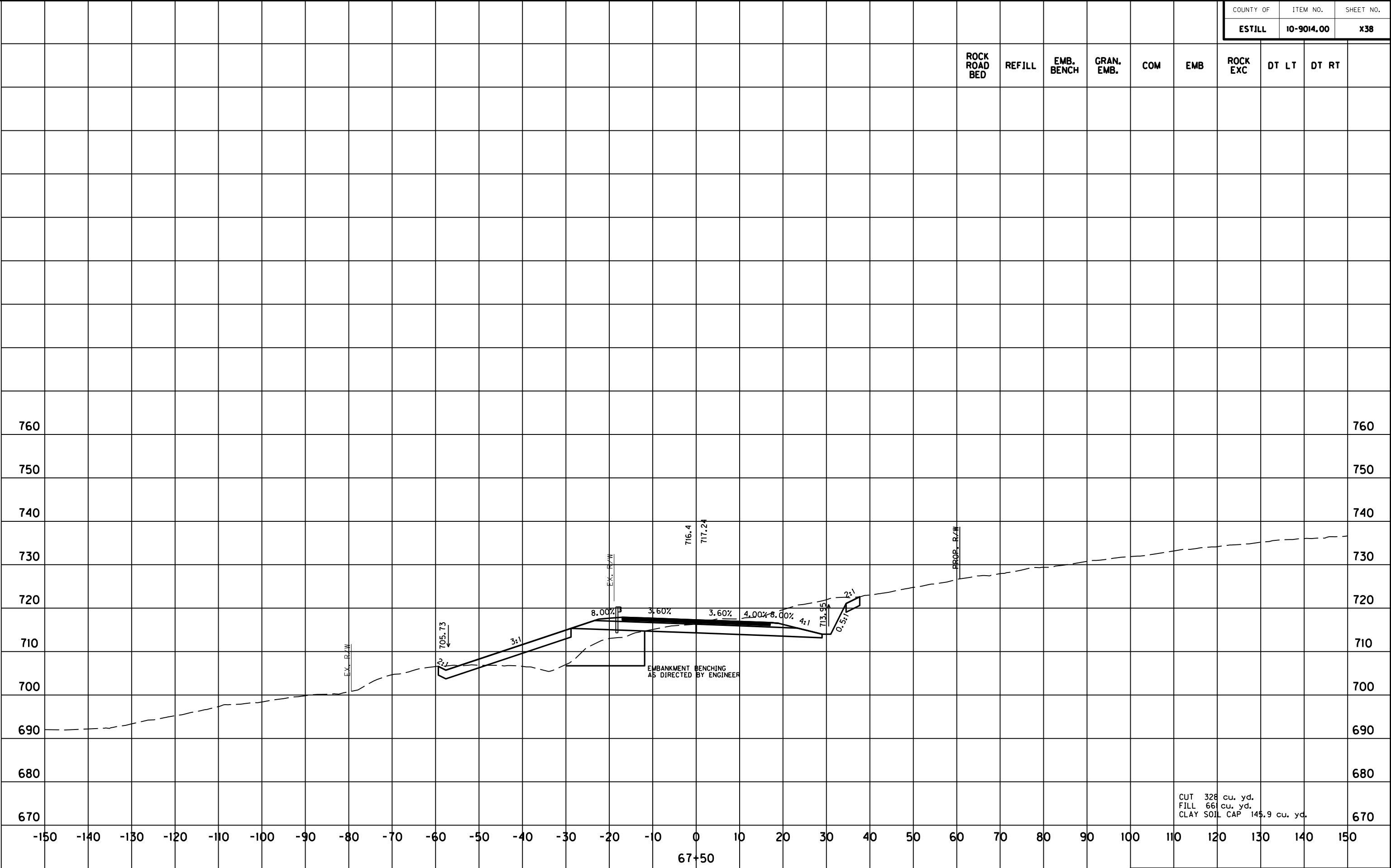
STA.67+00 TO STA.67+00

Power InRoads v8.11.9.337 E-SHEET NAME:

USER: Kschneider
DATE PLOTTED: June 17, 2021

FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X38



STA.67+50 TO STA.67+50

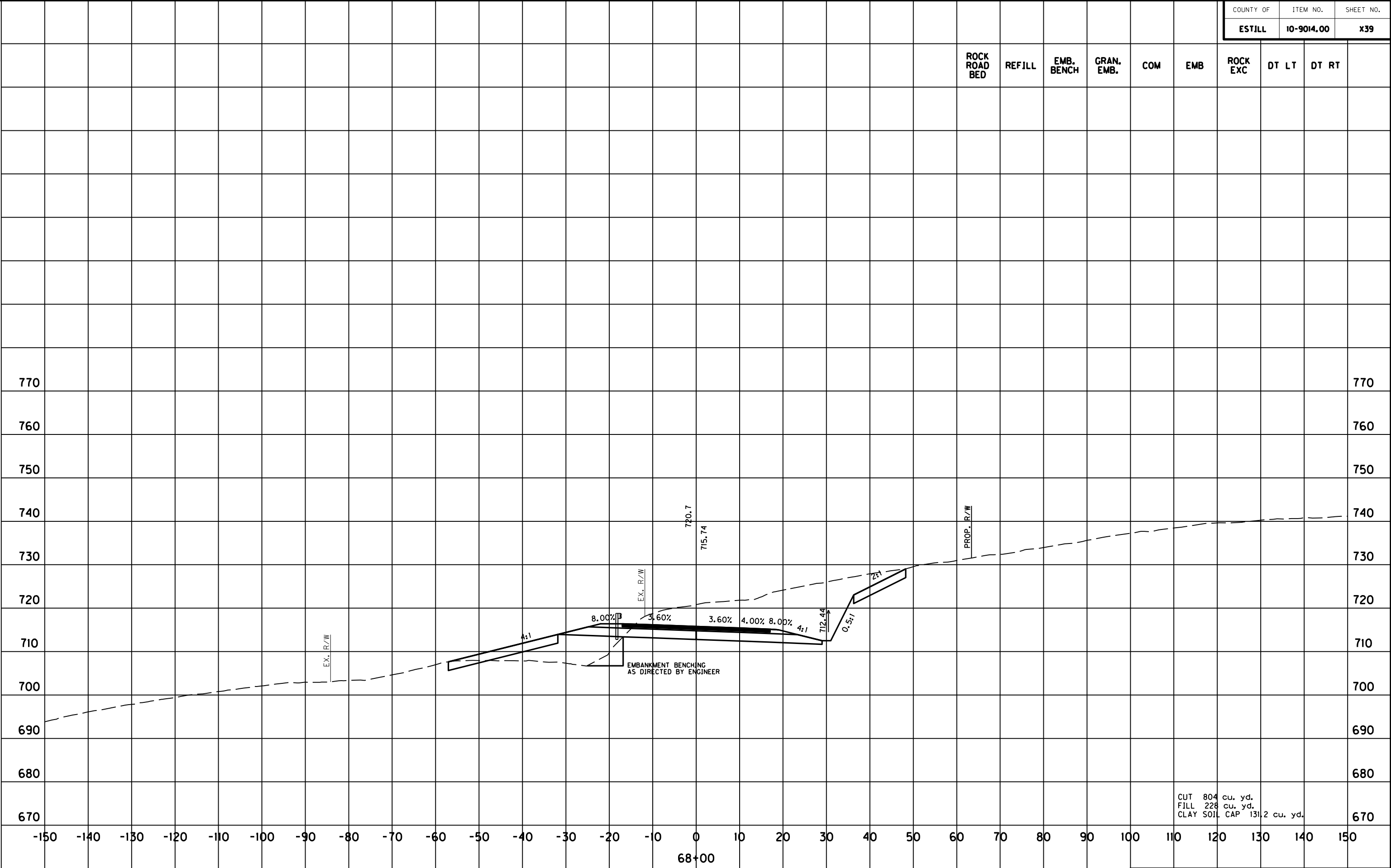
FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

E-SHEET NAME:

Power InRoads v8.11.9.337

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X39



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 68+00 TO STA. 68+00

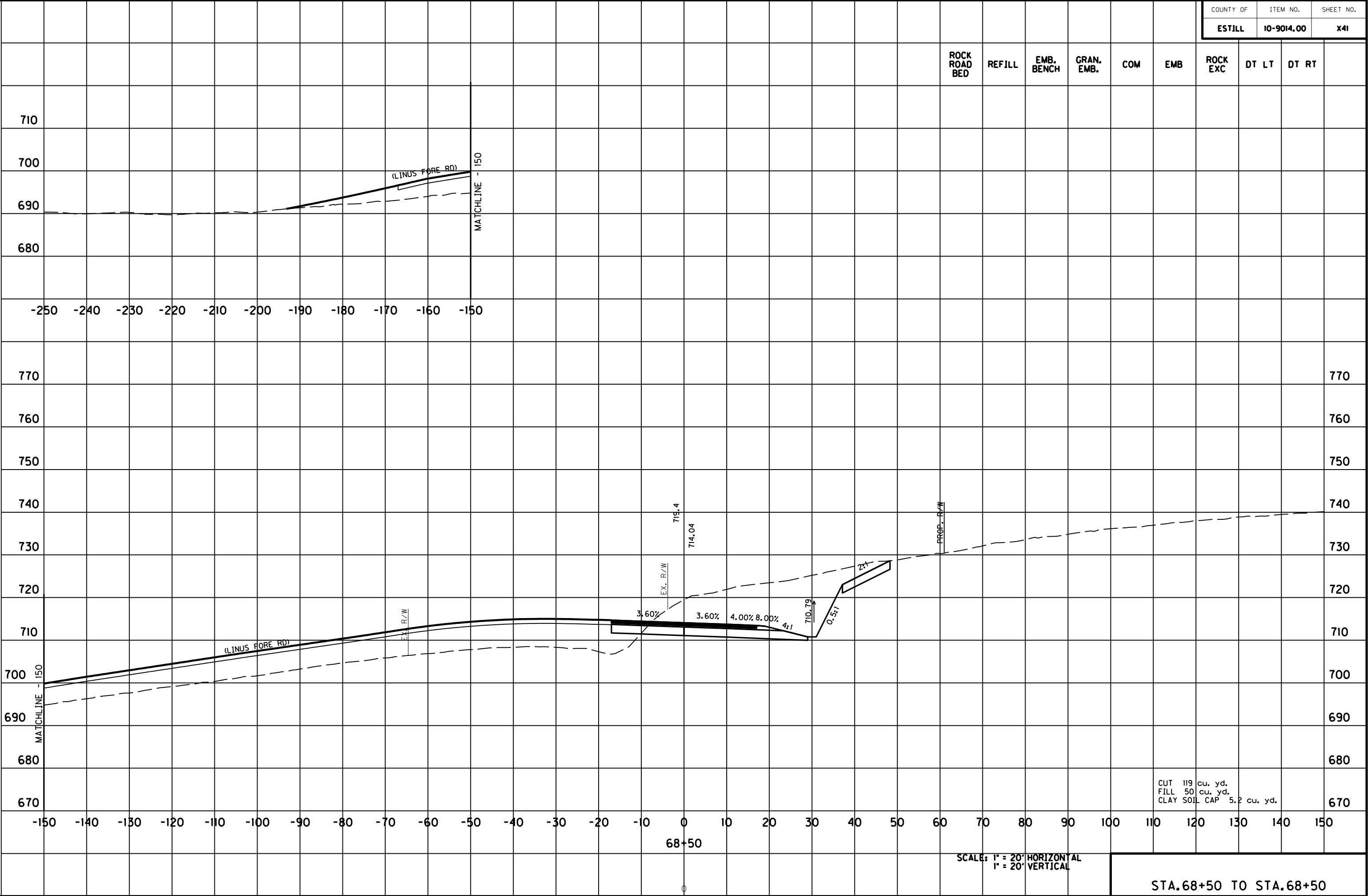
STA.68+44 TO STA.68+44

FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CAD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

E-SHEET NAME:

Power InRoads v8.11.9.337

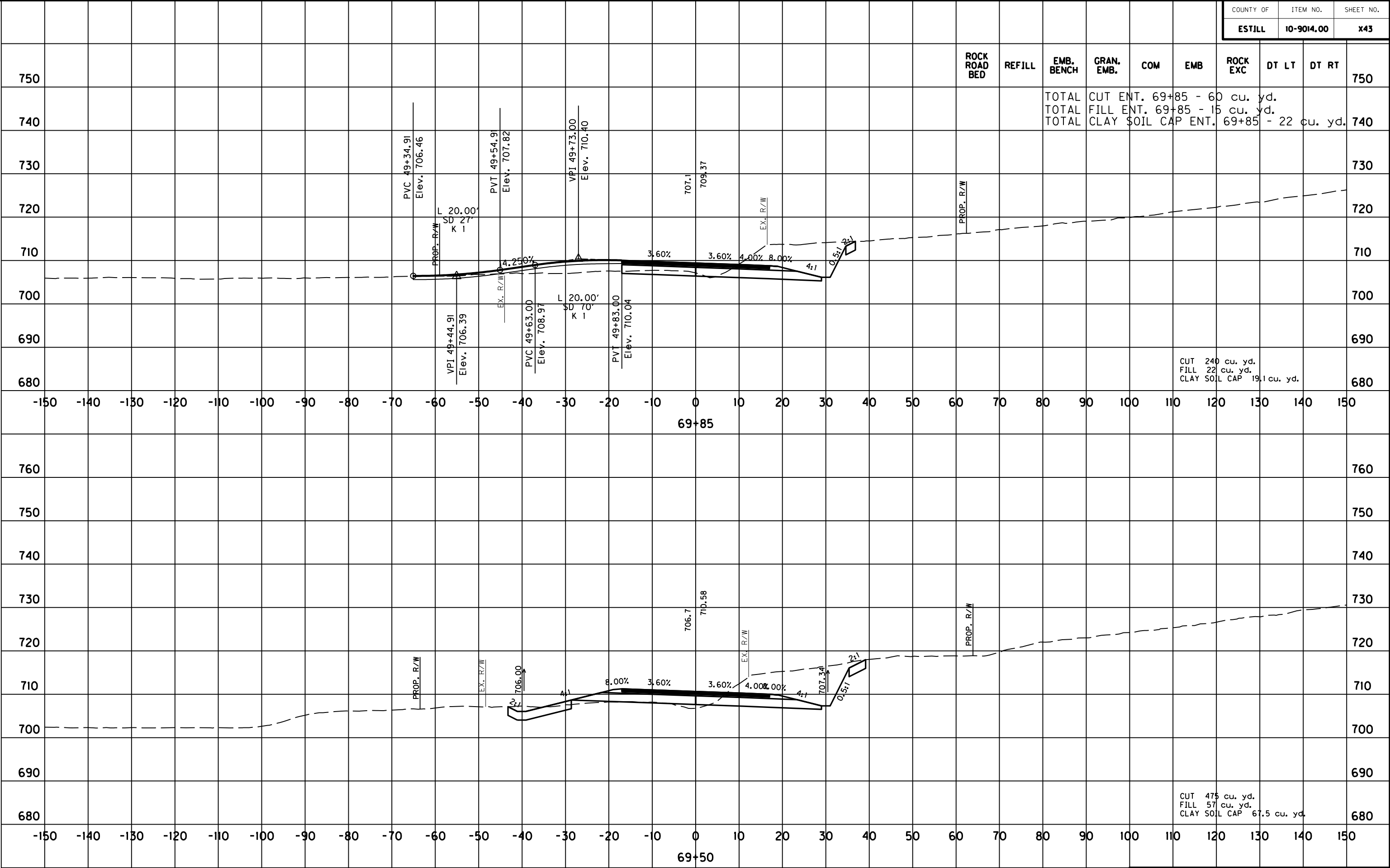


STA.69+00 TO STA.69+00

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

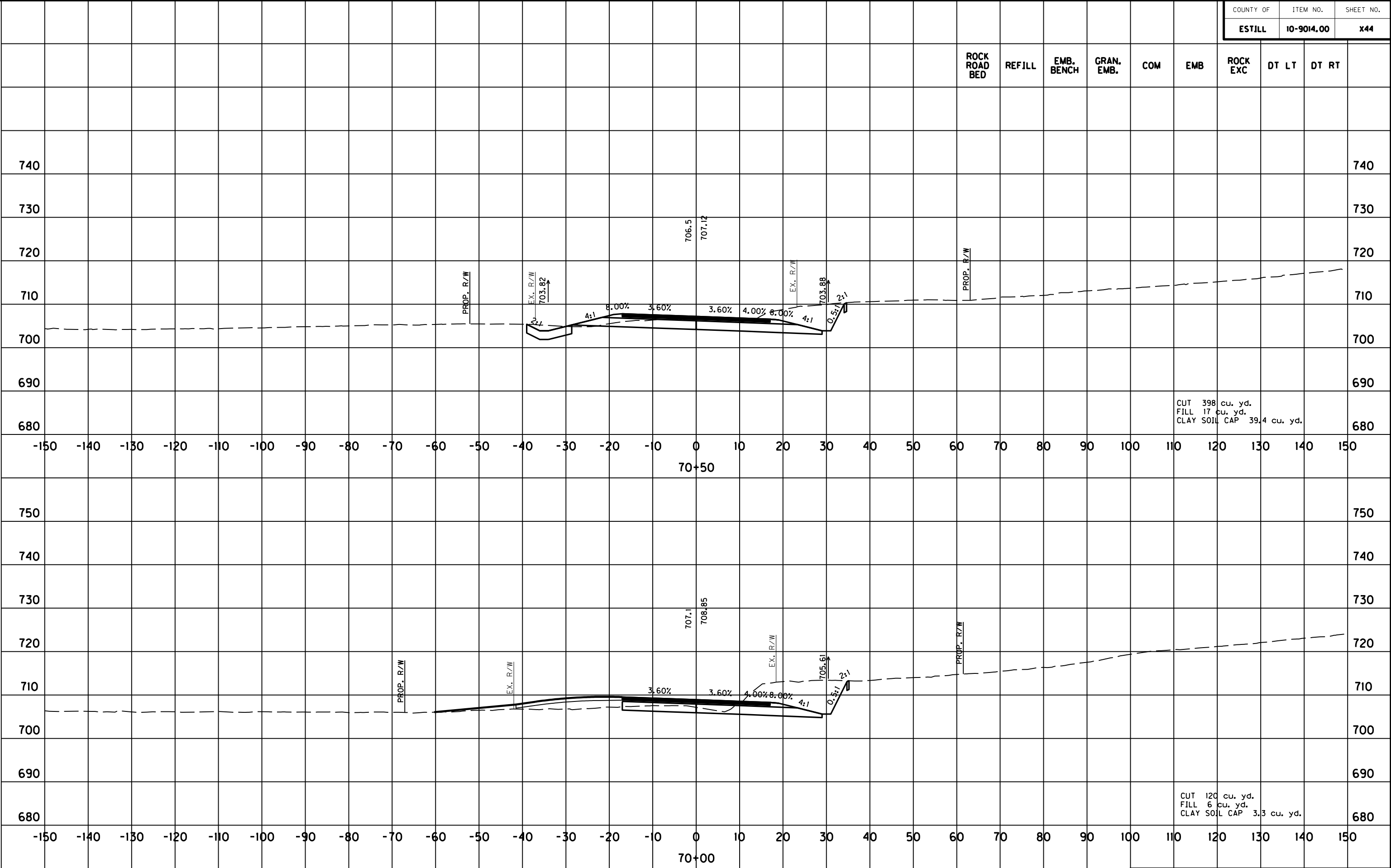
Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\CAD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X43



Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: December 13, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS 19.21.44.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X44



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

STA. 70+00 TO STA. 70+50

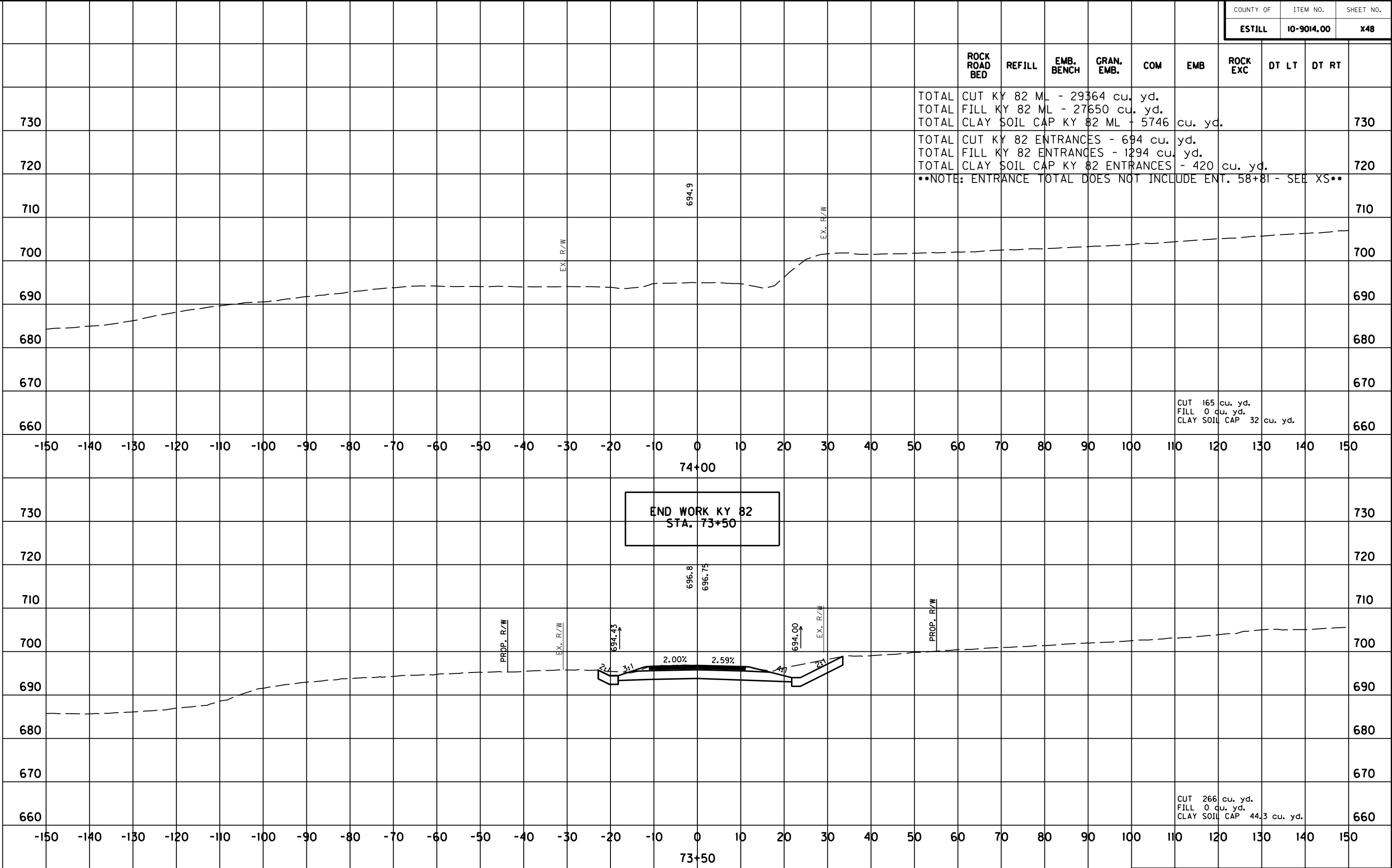
STA. 70+66 TO STA. 71+00

STA. 71+50 TO STA. 72+00

STA. 72+50 TO STA. 73+00

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: December 21, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\CURRENT DRAWINGS\WORKING DRAWINGS\XSPRINT47-48.DGN

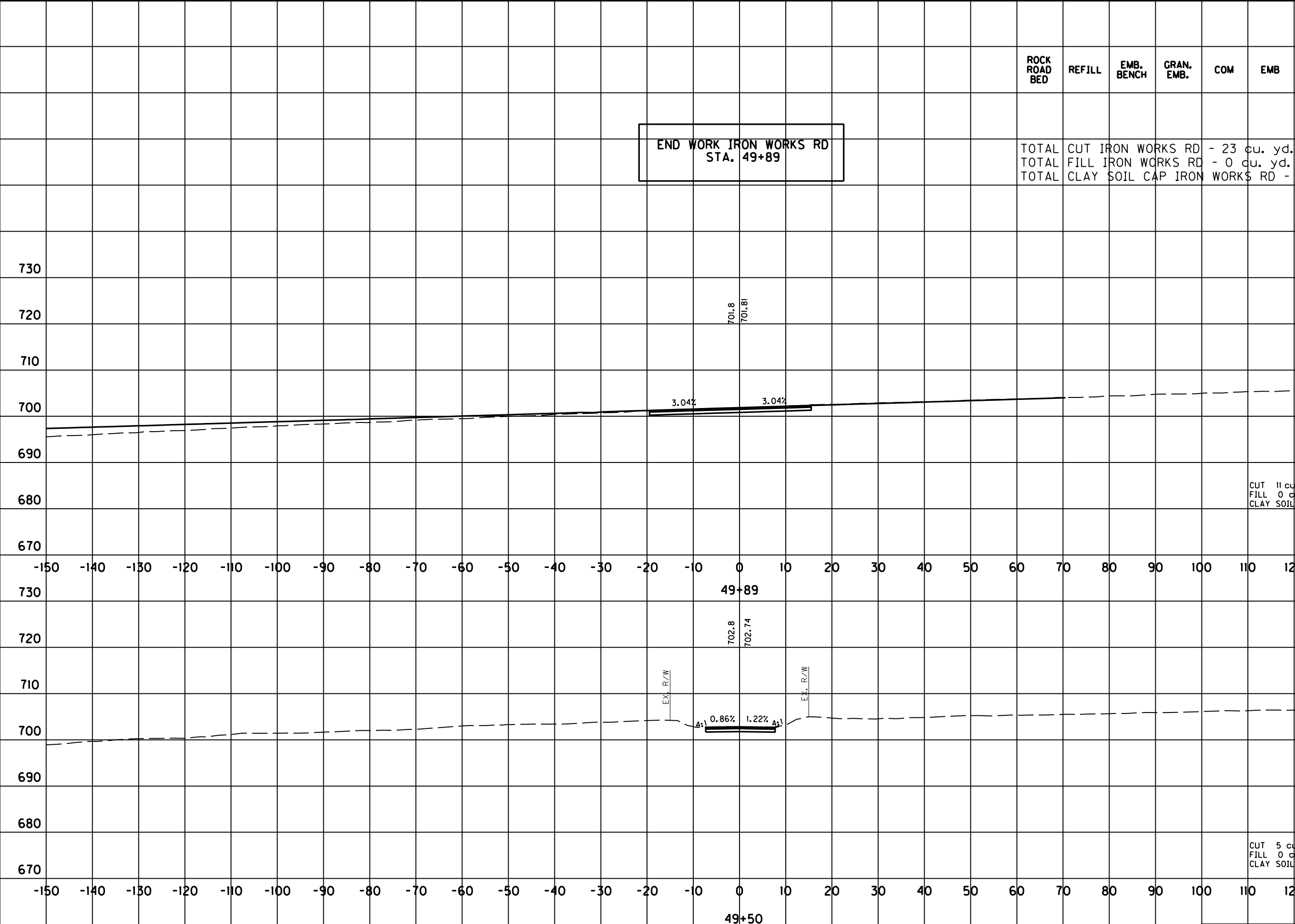
COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X48



IRON WORKS RD
STA. 49+15 TO STA. 49+42

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: June 17, 2021 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X50



SCALE: 1" = 20' HORIZONTAL 1" = 20' VERTICAL	IRON WORKS RD STA. 49+50 TO STA. 49+89
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LINUS FORE RD
STA.46+50 TO STA.47+00

LINUS FORE RD
STA.48+00 TO STA.48+50

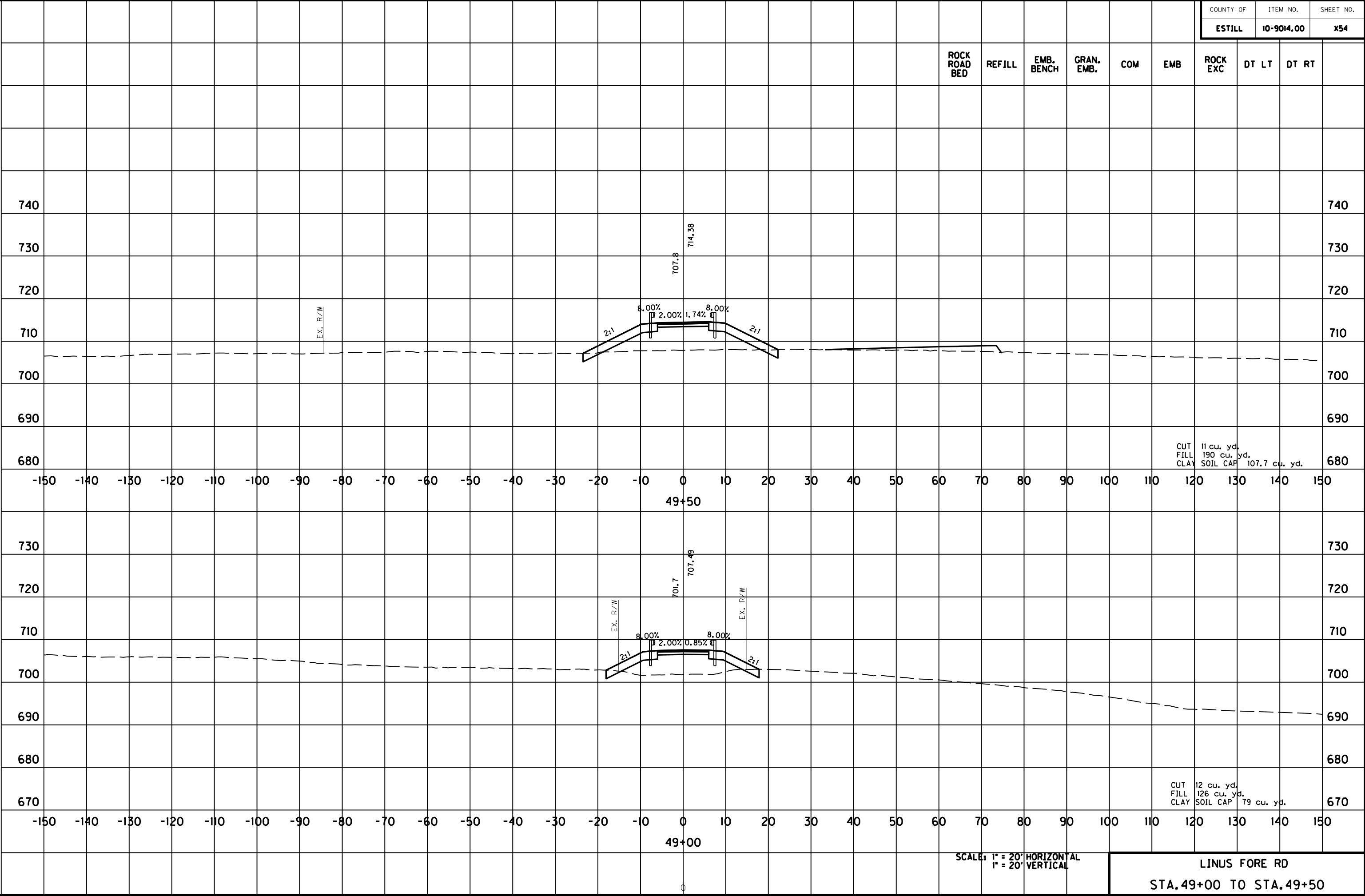
FILE NAME: N:\PROJECTS 2017\170080-10 HSP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\FINAL XS NEW.DGN

USER: Kschneider
DATE PLOTTED: June 17, 2021

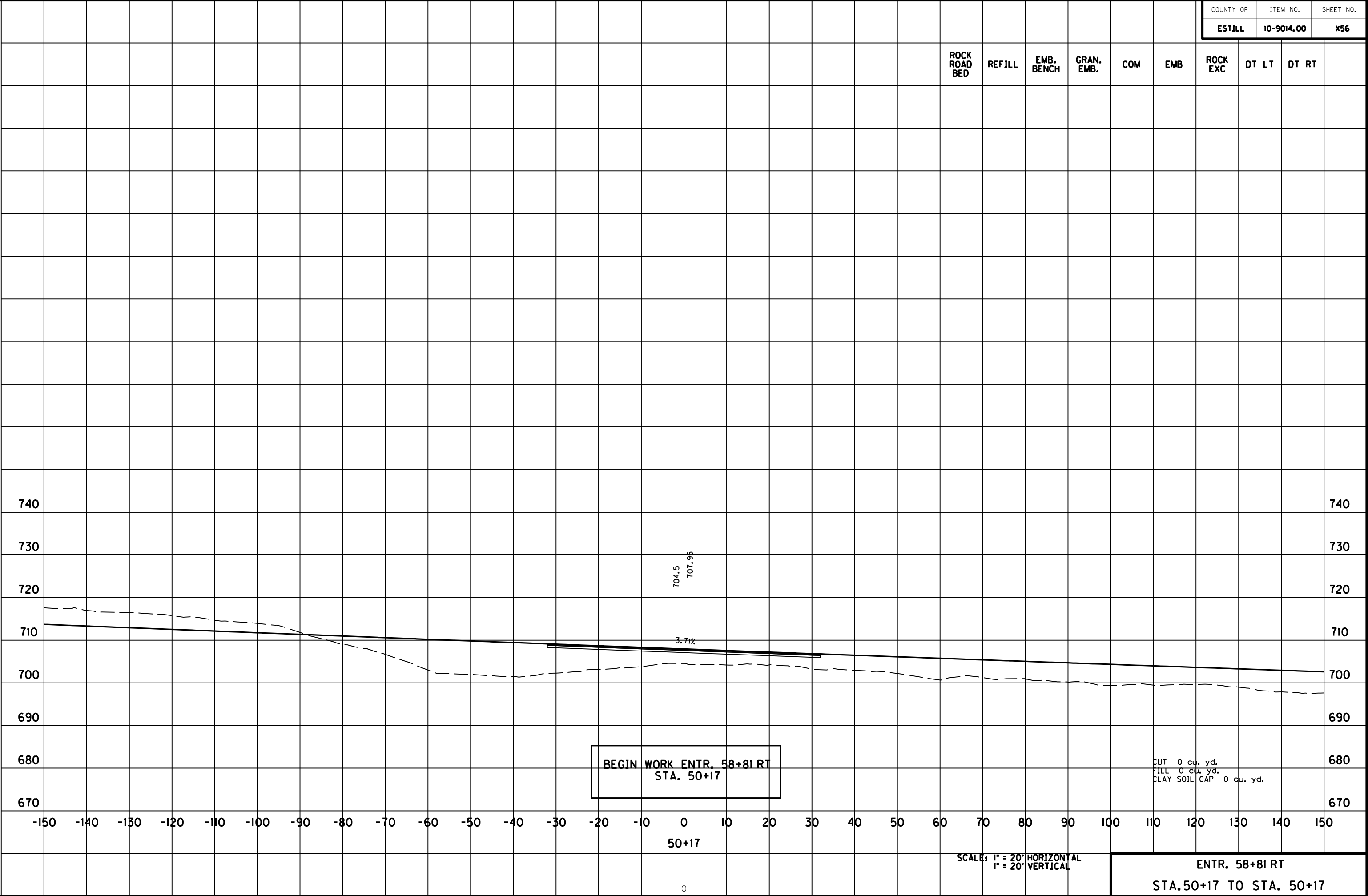
E-SHEET NAME:

Power InRoads v8.11.9.337

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X54



SCALE: 1" = 20'	HORIZONTAL	LINUS FORE RD STA.49+89 TO STA.49+89
1" = 20'	VERTICAL	



SCALE:	1" = 20'	HORIZONTAL
	1" = 20'	VERTICAL

ENTR. 58+81 RT
STA. 50+50 TO STA. 50+50

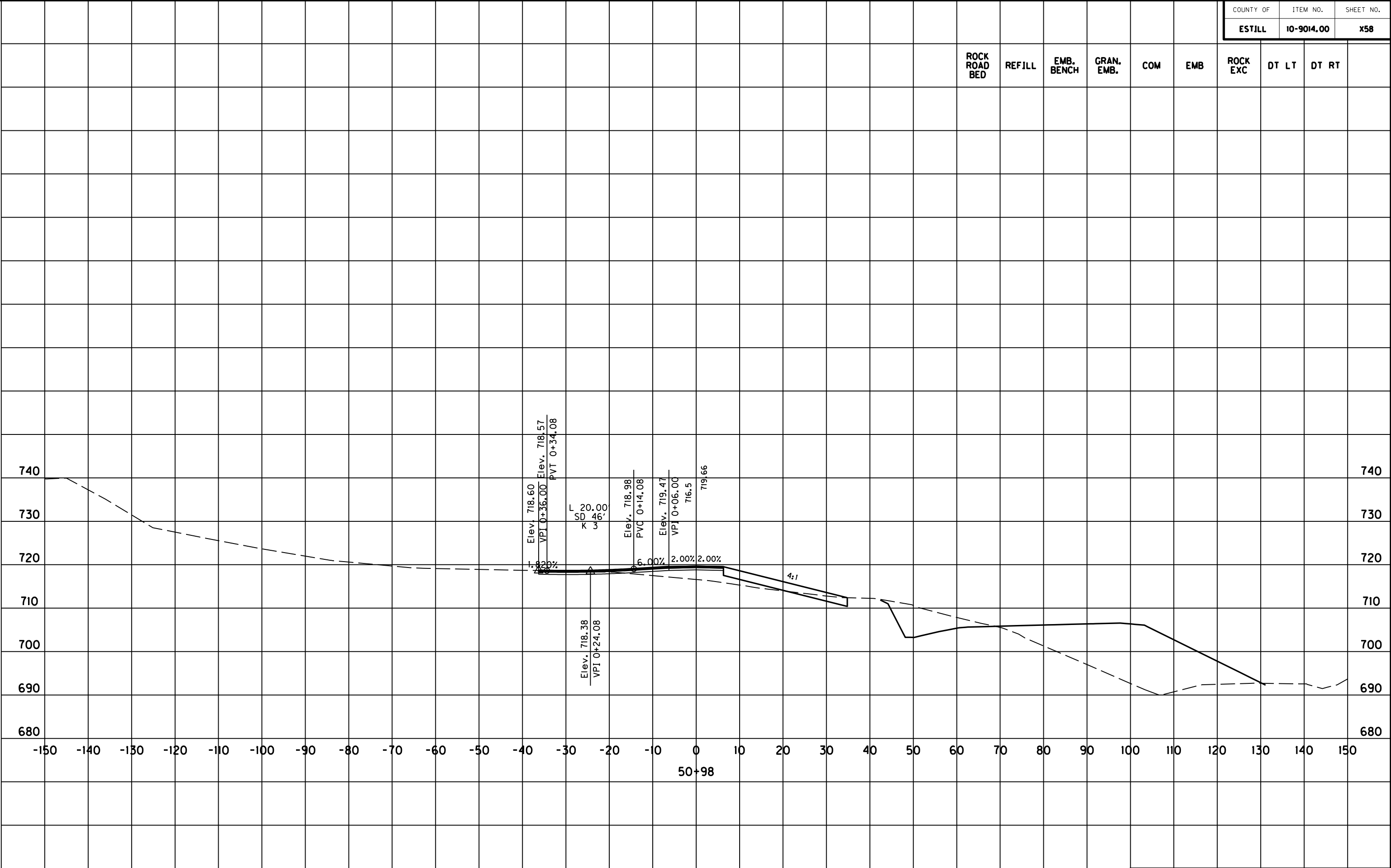
Power InRoads v8.11.9.337

E-SHEET NAME:

USER: Kschneider
DATE PLOTTED: March 27, 2020

FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\ALTERNATE G FINAL ENTRANCES.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X58

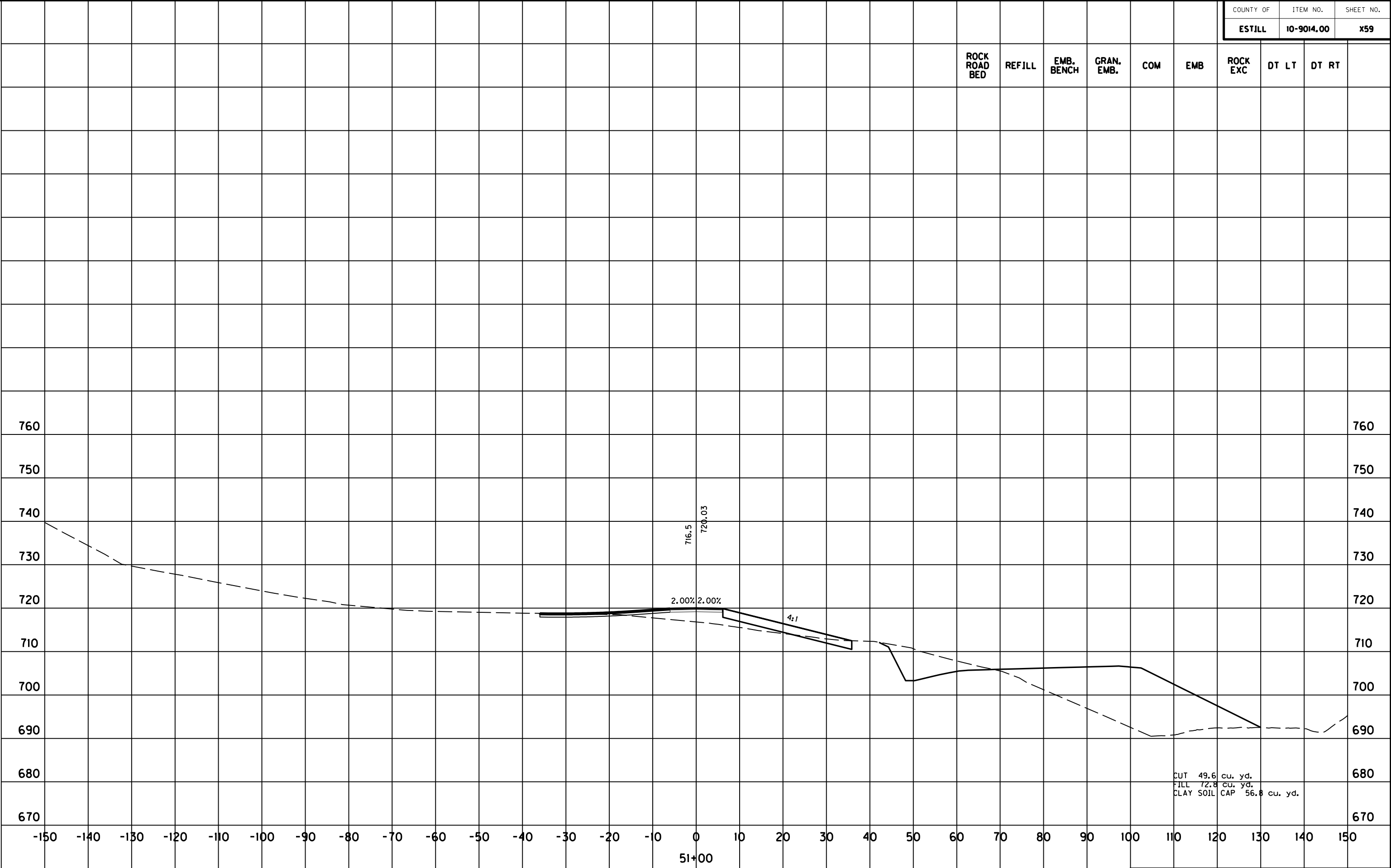


SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

ENTR. 58+81 RT
STA. 50+98

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: March 27, 2020 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\ALTERNATE G FINAL ENTRANCES.DGN

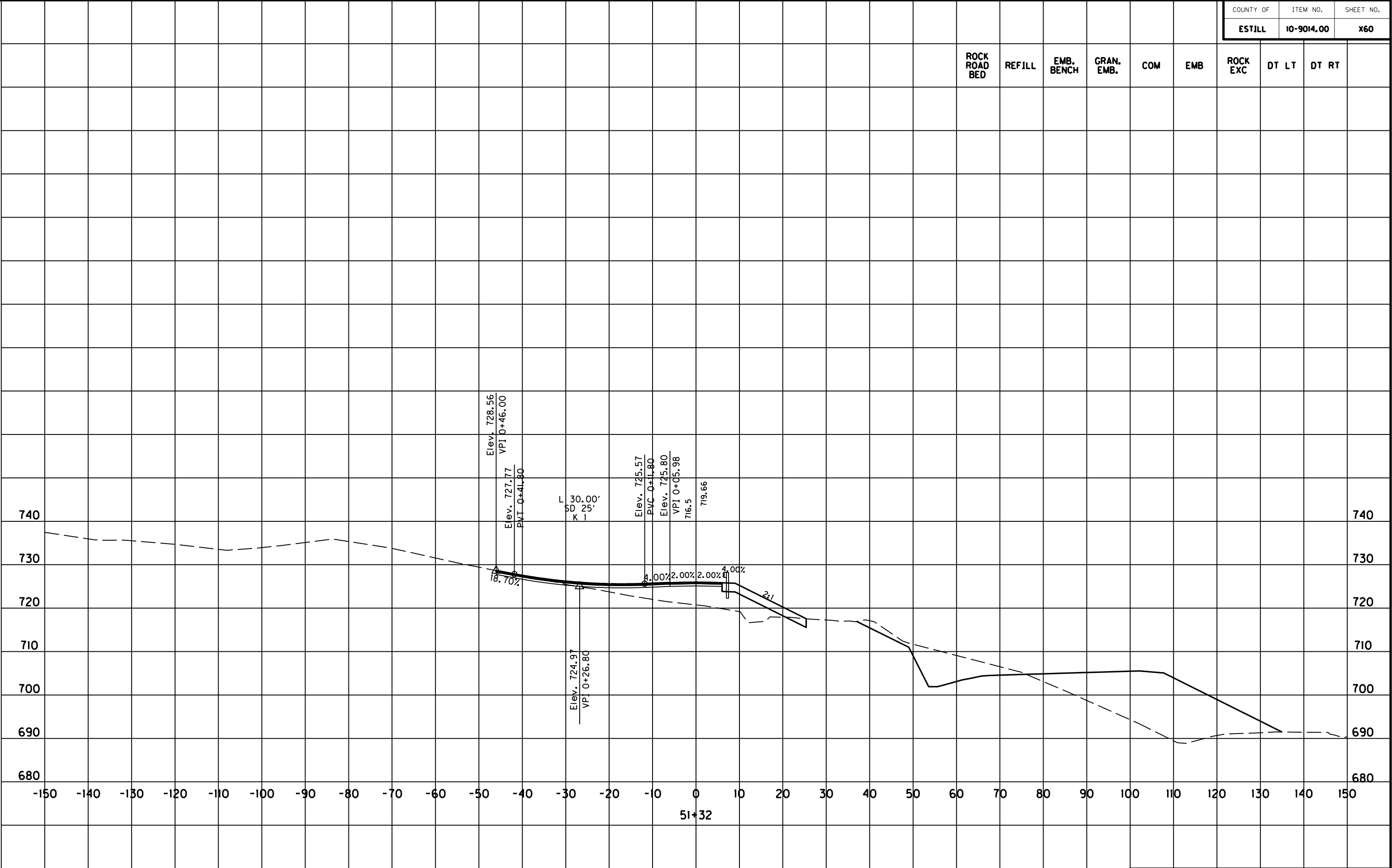
COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X59



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

ENTR. 58+81 RT
STA. 51+00 TO STA. 51+00

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X60



ENTR. 58+81 RT
STA. 51+32

SCALE: 1" = 20'	HORIZONTAL 1" = 20'	VERTICAL	ENTR. 58+81 RT STA. 51+50 TO STA. 51+50
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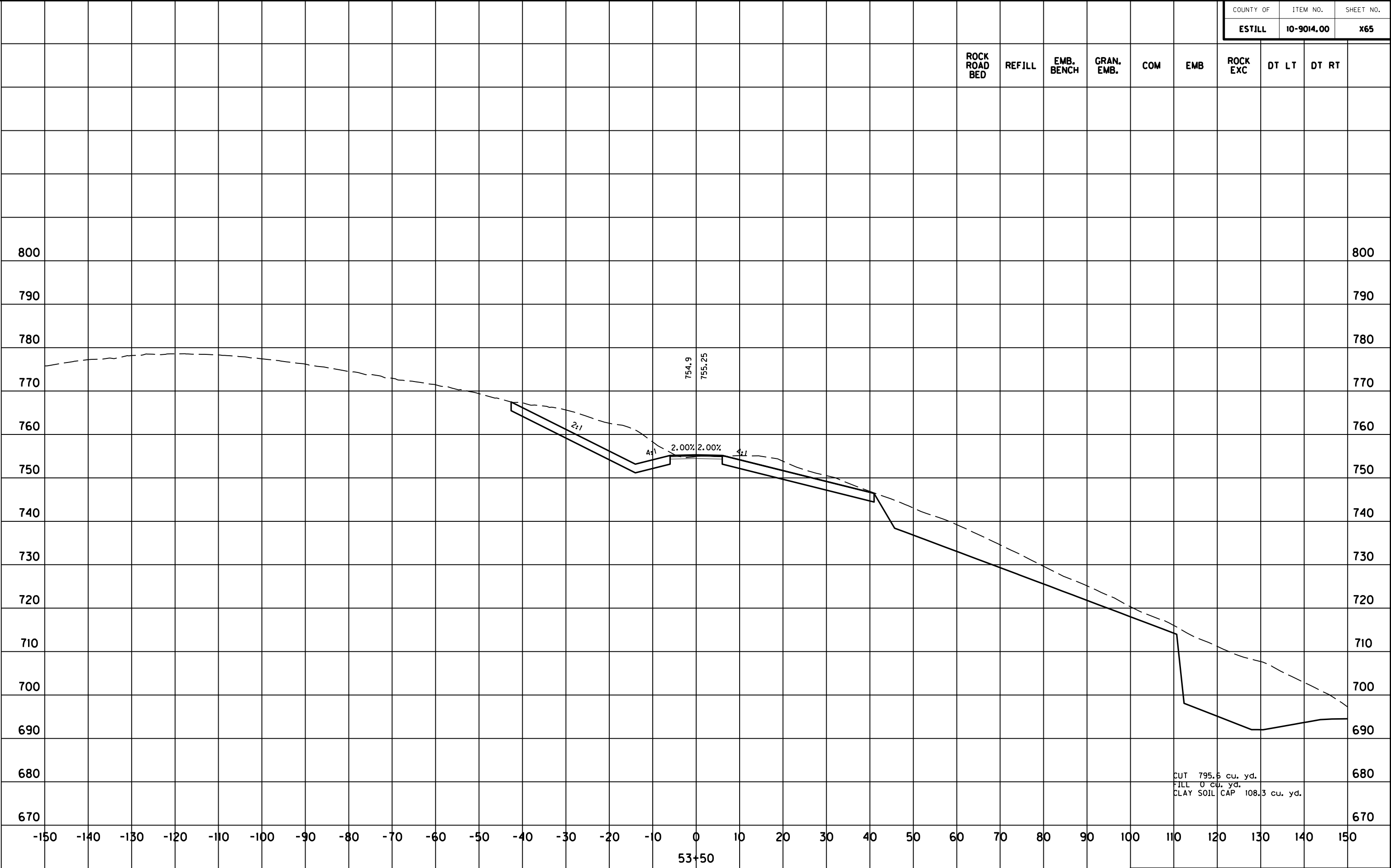
SCALE: 1" = 20'	HORIZONTAL 1" = 20'	VERTICAL	ENTR. 58+81 RT STA. 52+00 TO STA. 52+00
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SCALE: 1" = 20' HORIZONTAL 1" = 20' VERTICAL	ENTR. 58+81 RT STA. 53+00 TO STA. 53+00
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Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: March 27, 2020 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\ALTERNATE G FINAL ENTRANCES.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X65



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

ENTR. 58+81 RT
STA.53+50 TO STA.53+50

Power InRoads v8.11.9.337 E-SHEET NAME: USER: Kschneider DATE PLOTTED: March 27, 2020 FILE NAME: N:\PROJECTS 2017\170080-10 HSIP DIO KY 82 ESTILL CO\CADD\DRAWINGS REFERENCED\ALTERNATE G FINAL ENTRANCES.DGN

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X66



SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

ENTR. 58+81 RT
STA. 53+75 TO STA. 53+75

COUNTY OF	ITEM NO.	SHEET NO.
ESTILL	10-9014.00	X67

