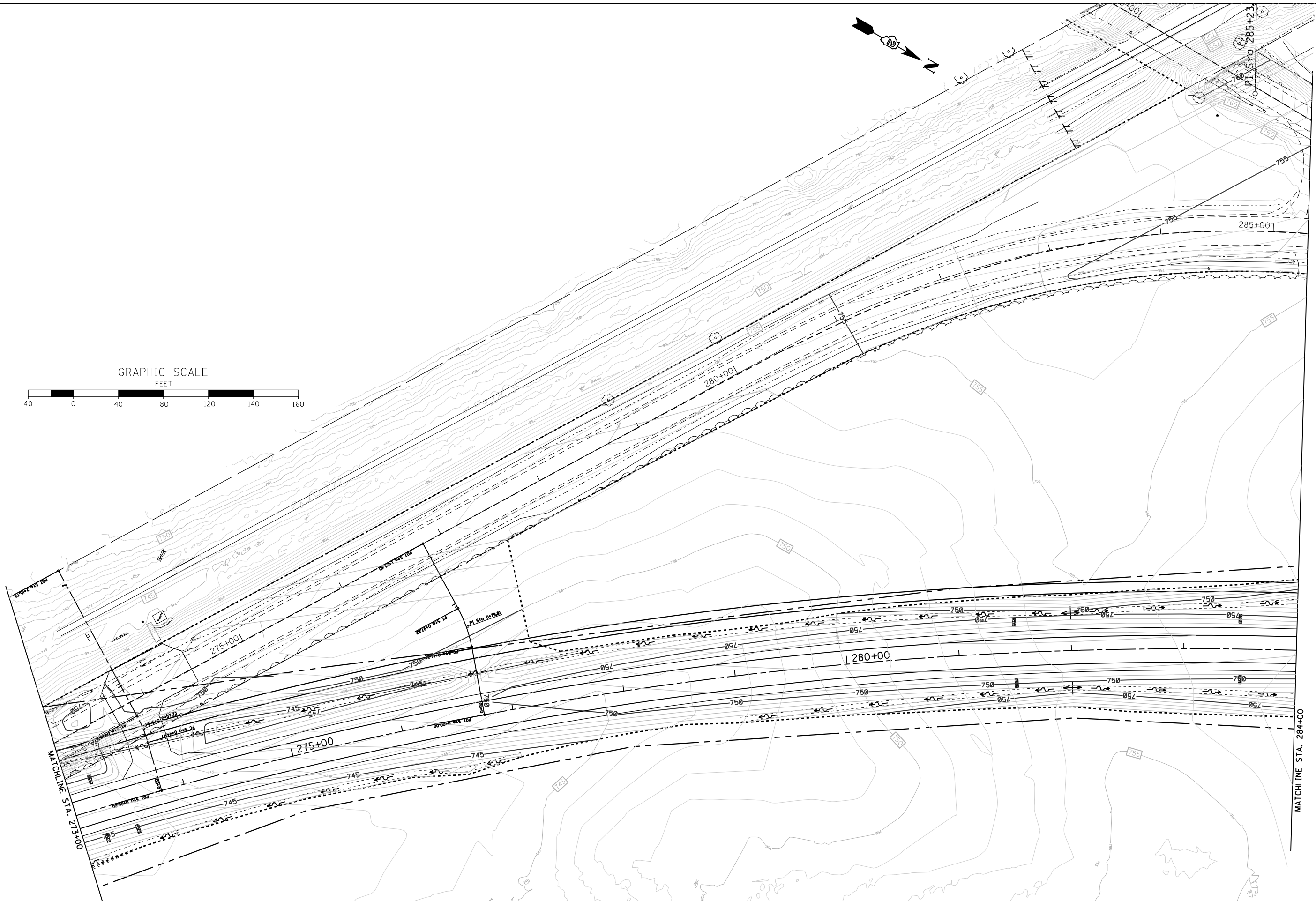
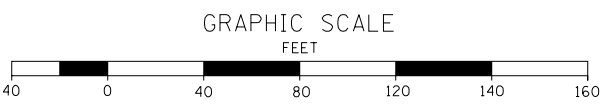
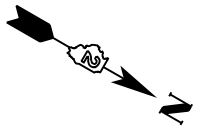


FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING PLAN IL ROUTE 40			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
F:\2012\Jobs\2120237\Geopak\0206811-Grading.dgn		DRAWN -	REVISED -		SCALE: 1"=40'	SHEET 101	OF 197 SHEETS	STA. 251+00	TO STA. 273+00	646	03-00083-00-BR	CARROLL	197	101
Default	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -							JOB *C-92-067-06	CONTRACT NO. 85645			
	PLOT DATE = 11/12/2019	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									



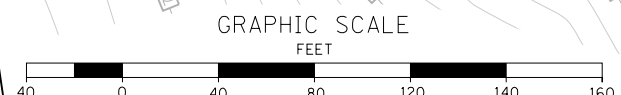
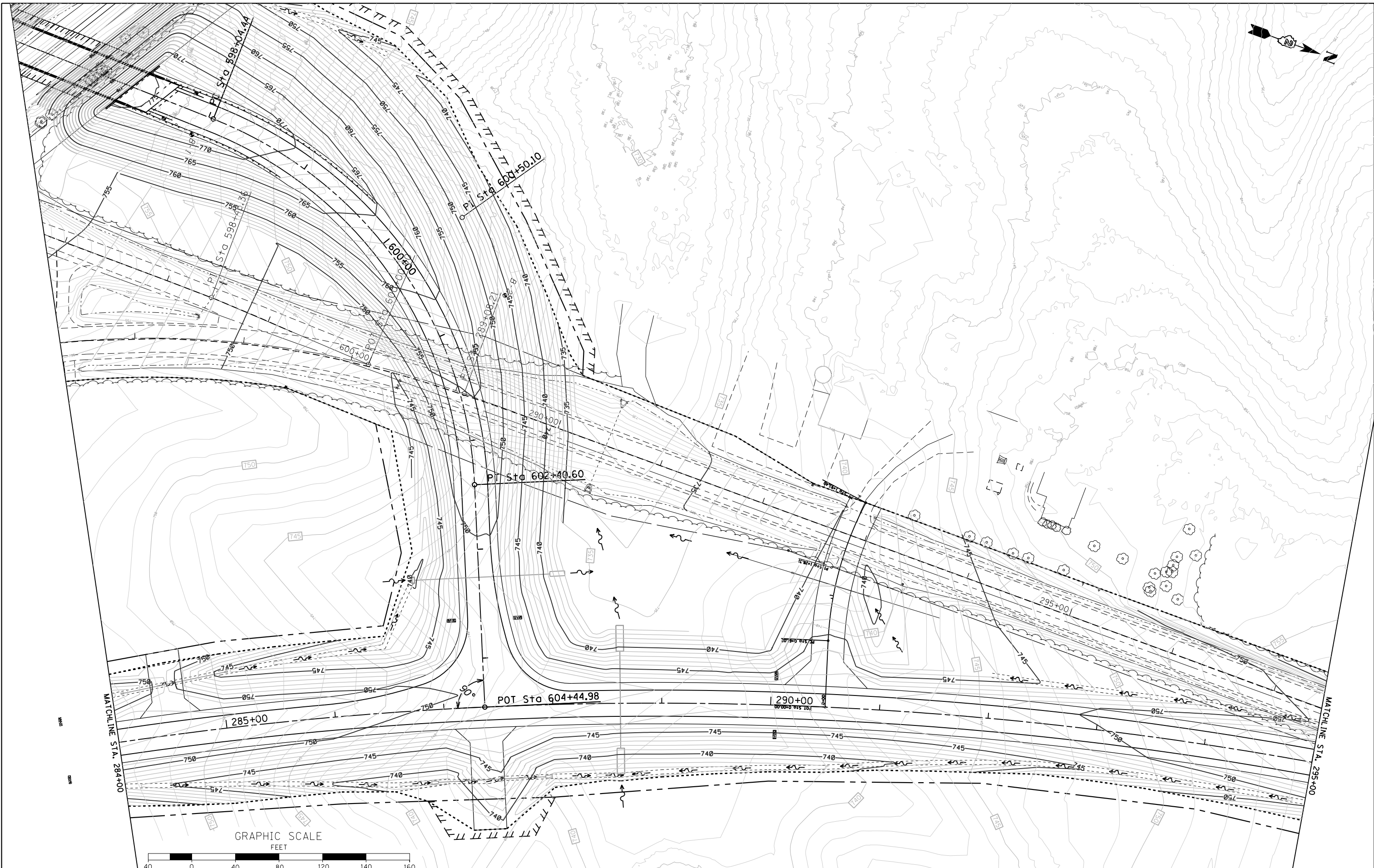
FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
F:\2012Jobs\2120237\Geopak\0206811-Grading.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/12/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN
IL ROUTE 40**

SCALE: 1"=40' SHEET 102 OF 197 SHEETS STA. 273+00 TO STA. 284+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	03-00083-00-BR	CARROLL	197	102
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				



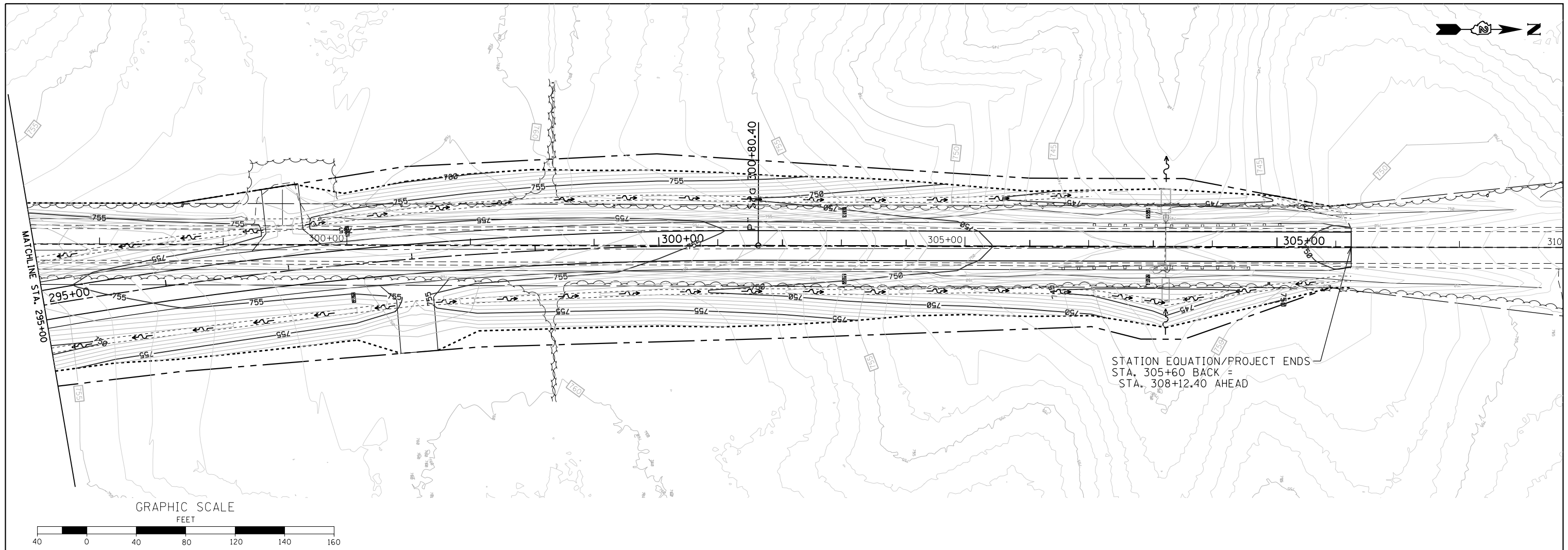
FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
F:\2012Jobs\2120237\Geopak\0206811-Grading.dgn		DRAWN -	REVISED -
Default		CHECKED -	REVISED -
	PLOT SCALE = 80.0000' / in.	DATE -	REVISED -
	PLOT DATE = 11/12/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN
IL ROUTE 40**

SCALE: 1"=40' SHEET 103 OF 197 SHEETS STA. 284+00 TO STA. 295+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	03-00083-00-BR	CARROLL	197	103
JOB *C-92-067-06	CONTRACT NO. 85645			
ILLINOIS FED. AID PROJECT				



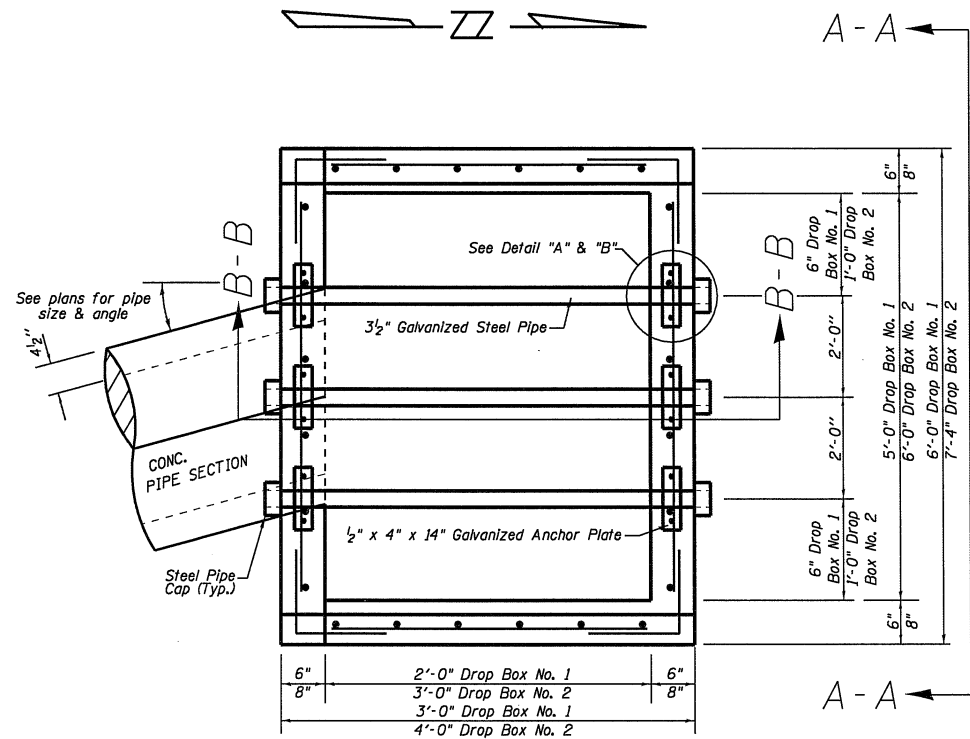
FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
F:\2012Jobs\2120237\Geopak\0206811-Grading.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/12/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

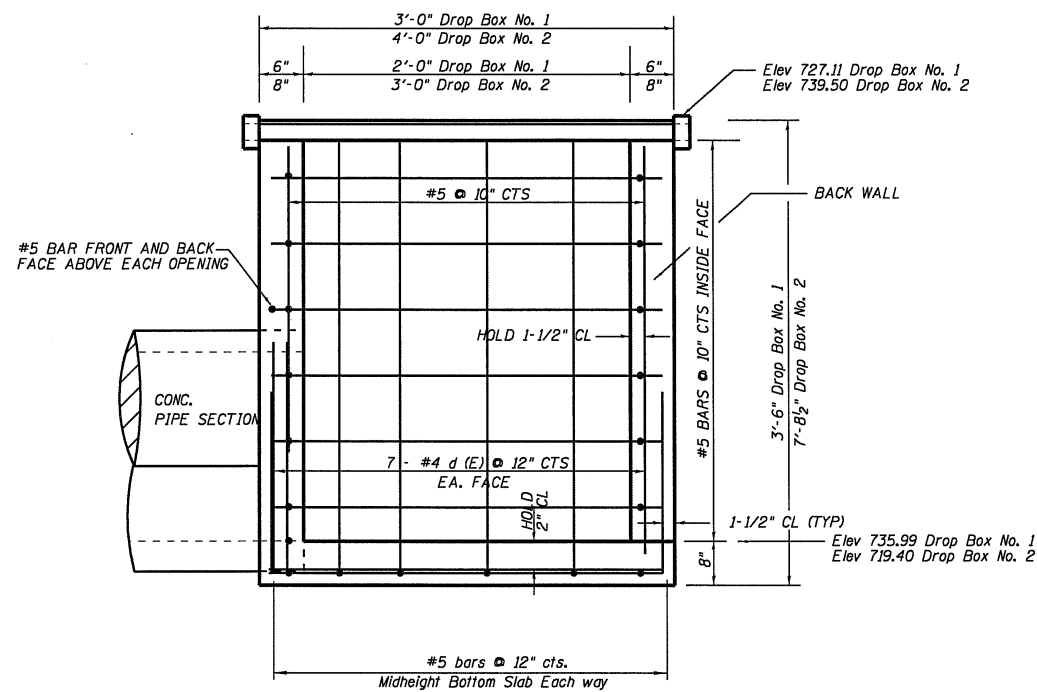
**GRADING PLAN
IL ROUTE 40**

SCALE: 1"=40' SHEET 104 OF 197 SHEETS STA. 295+00 TO STA. 309+50

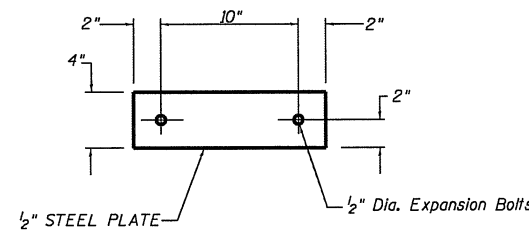
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	03-00083-00-BR	CARROLL	197	104
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				



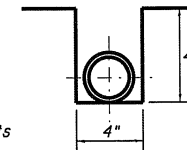
PLAN



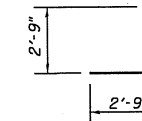
SECTION B-B



DETAIL "A"



DETAIL "B"



BAR d(E)

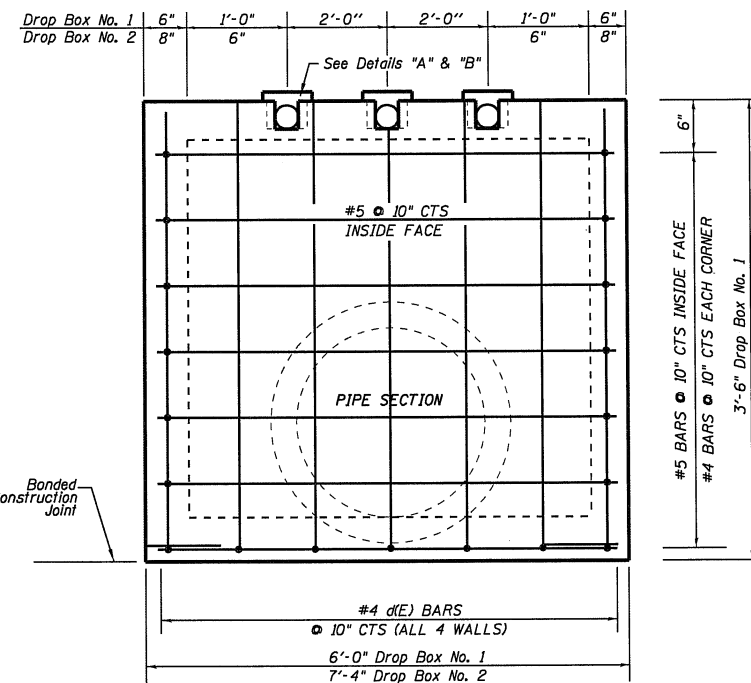
GENERAL NOTES

1. Work shall be done according to the applicable portion of 503, 508, and 542 of the standard specifications.
2. Class "si" Concrete shall be used. $f'c = 4,000$ psi. Exposed edges shall be 3/4" chamfer.
3. The contract unit price "each" for DROP BOX NO. 1 or DROP BOX NO. 2 shall include the Expansion Bolts, Galvanized Pipe, Class "si" Concrete, Reinforcement Bars, Bolts, Nuts, Washers, Steel Plates, Steps, Earth Excavation where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope.
4. Reinforcement Bars shall conform to the requirements of ASTM A706, Grade 60.
5. Steel Plates shall conform to AASHTO M-183 and shall be Galvanized Conforming to AASHTO M-111.
6. Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the Standard Specification and shall be Galvanized.
7. Contractor shall field verify Galvanized Pipe length.
8. See STD 602701 for Manhole steps required for Drop Box No. 2.
9. Steel pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, & Shall be galvanized conforming to A.S.T.M. A-120.
10. Cut or rotate bars in conflict with pipe section.

LOCATION SCHEDULE

DROP BOX NO.1			
LOCATION	EACH	IDOT	COUNTY
IDEAL ROAD			
RT STA. 603+26	1	1	
TOTAL	1	1	0

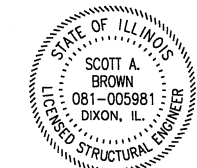
DROP BOX NO.2			
LOCATION	EACH	IDOT	COUNTY
IL RTE. 40			
LT STA. 260+06	1	1	
TOTAL	1	1	0



VIEW A-A

WENDLER ENGINEERING SERVICES, INC.

Illinois Professional Design Firm No. 184-000848

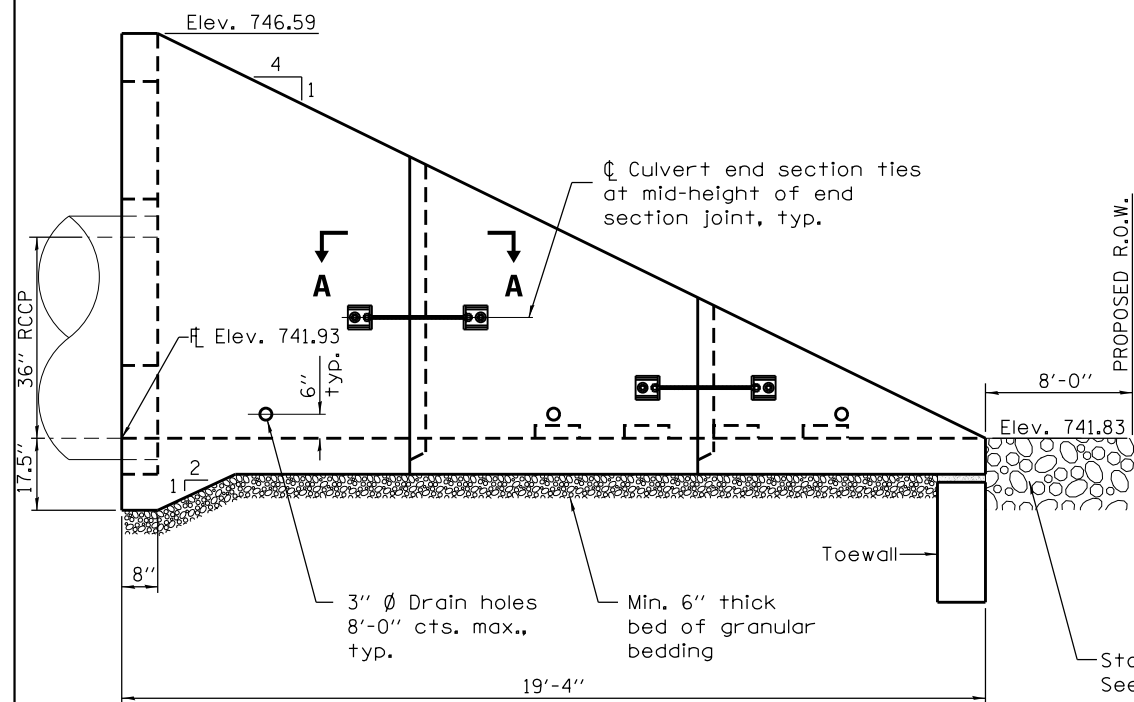


Scott Brown 6/17/19 DATE

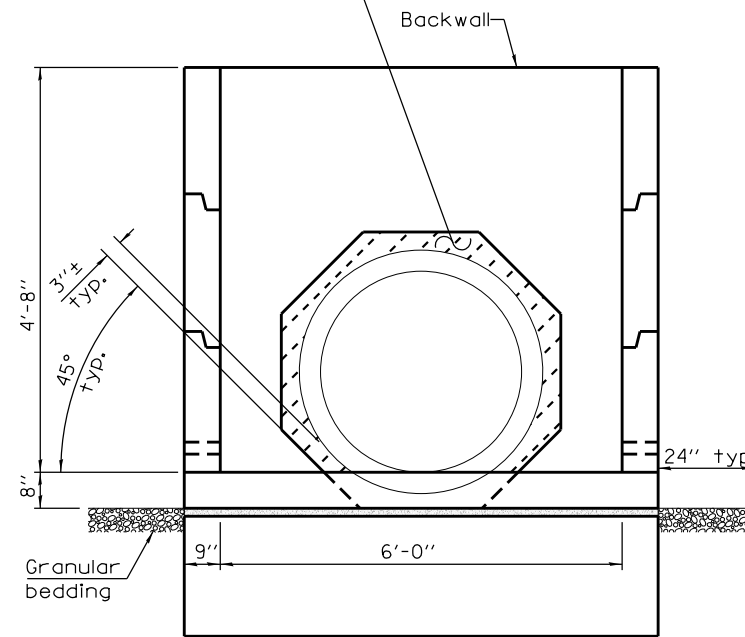
SCOTT A. BROWN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-005981
EXPIRES 11-30-2020

FILE NAME =	USER NAME = Bryen_Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DROP BOX DETAILS	F.A.S. RTE. 1084	SECTION 03-0083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 105		
Default	PLOT SCALE = 1.0000' / 1in.	DRAWN -	REVISED -			SCALE:	SHEET 105 OF 197 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 6/17/2019	CHECKED -	REVISED -			CONTRACT NO. 85645						
		DATE -	REVISED -									

Hatched area indicates void between the pipe and the backwall to be filled with Class SI concrete.



ELEVATION



END VIEW

GENERAL NOTES

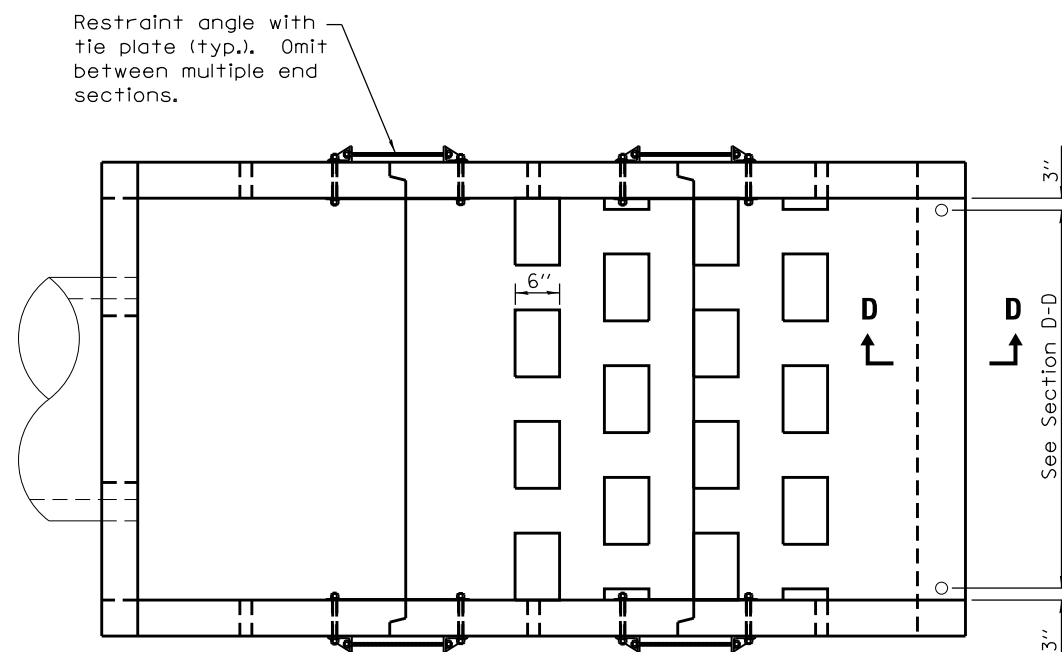
The number of segments shown in elevation is for example only. The length and number of precast sections required to construct the end section shall be determined by the Contractor.

2 1/4 x 2 1/4 x 5/16 (56 x 56 x 8) plate washers shall be provided under each nut required for the anchor rods. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of formed holes.

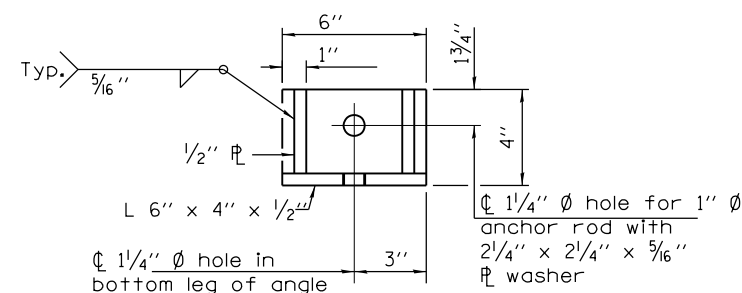
See Standard 542311 for required traversable pipe grate.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

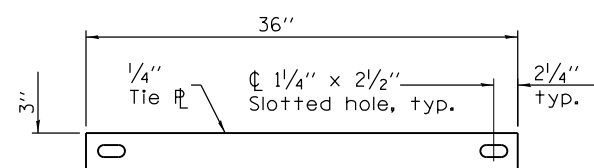
All dimensions are in inches unless otherwise shown.



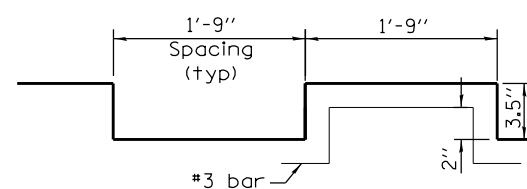
PLAN
N.T.S.



RESTRAINT ANGLE DETAIL

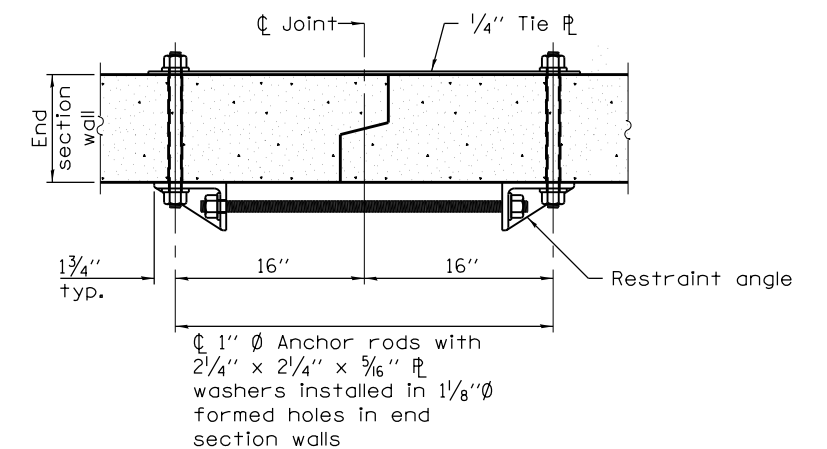


TIE PLATE DETAIL



ENERGY DISSIPATOR BLOCK DETAIL

To be precast in section



SECTION A-A
(Showing end section tie details)

LOCATION SCHEDULE

X6020182	DRAINAGE STRUCTURE SPECIAL			
	LOCATION			L SUM
	IL RTE. 40			
	LT. STA. 304+10			1
				TOTAL 1

FILE NAME =	USER NAME = Bryon_Hartmann	DESIGNED -	REVISED -
F:\2012Jobs\2120237\Geopak\0206811-EnergyDissipatorDetails.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/12/2019	DATE -	REVISED -

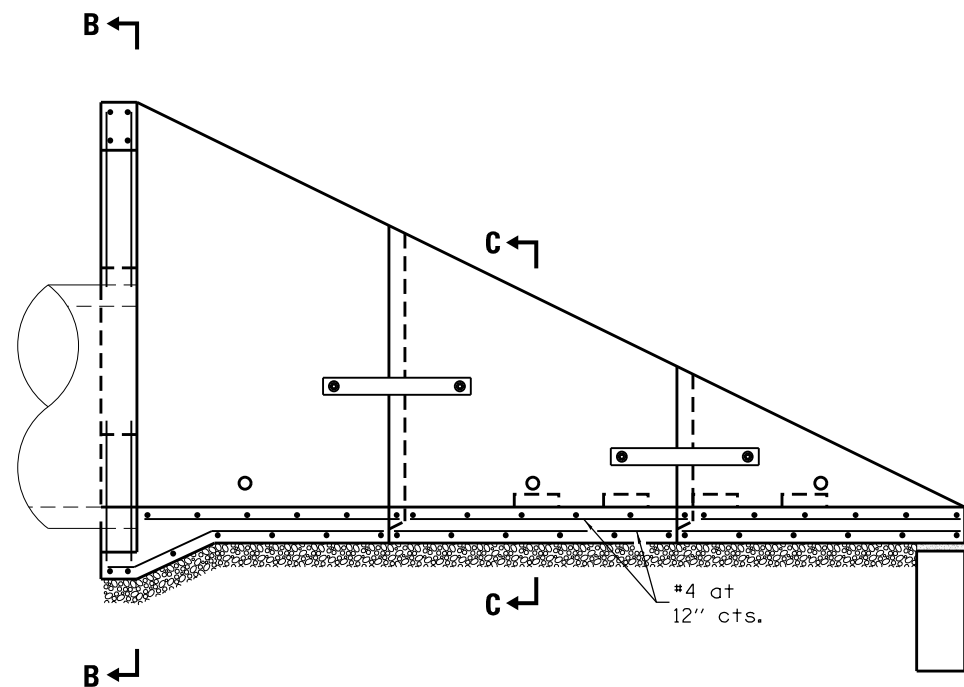
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENERGY DISSIPATOR END SECTION DETAILS - 1 OF 2
LT. STA. 304 + 10

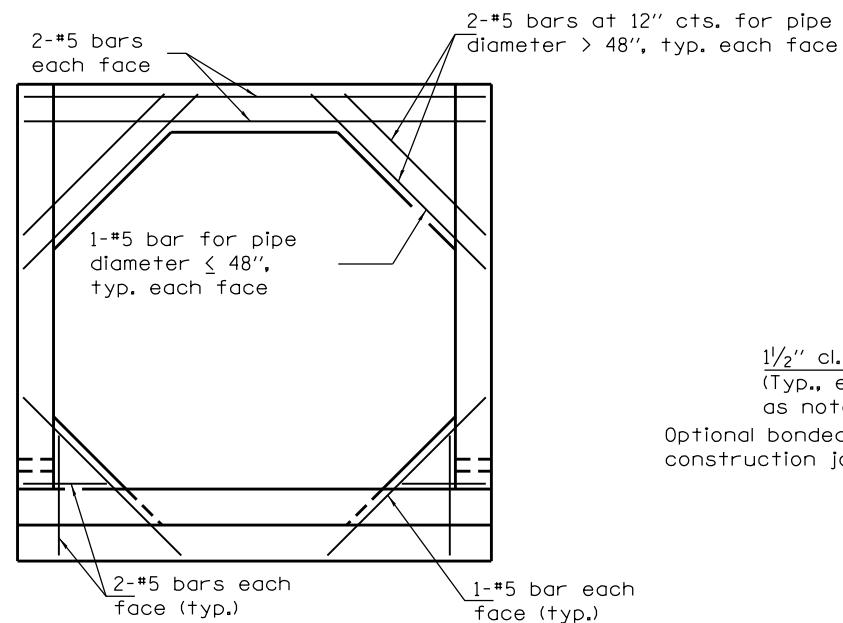
SCALE: SHEET 106 OF 197 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	106
				CONTRACT NO. 85645

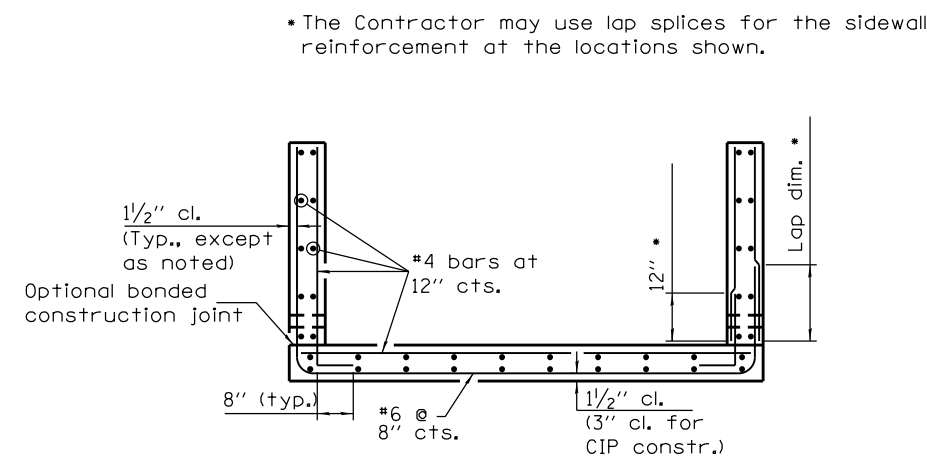
ILLINOIS FED. AID PROJECT



LONGITUDINAL SECTION
(Showing bottom slab and backwall reinforcement.)



SECTION B-B
(Showing backwall reinforcement only.)
(Pipe omitted for clarity.)

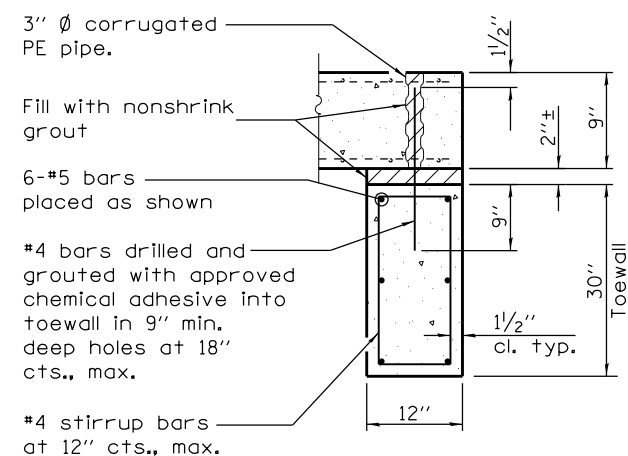


SECTION C-C

LAP DIMENSION

- #4 bar = 17"
- #5 bar = 21"
- #6 bar = 25"

*The Contractor may use lap splices for the sidewall reinforcement at the locations shown.



SECTION D-D

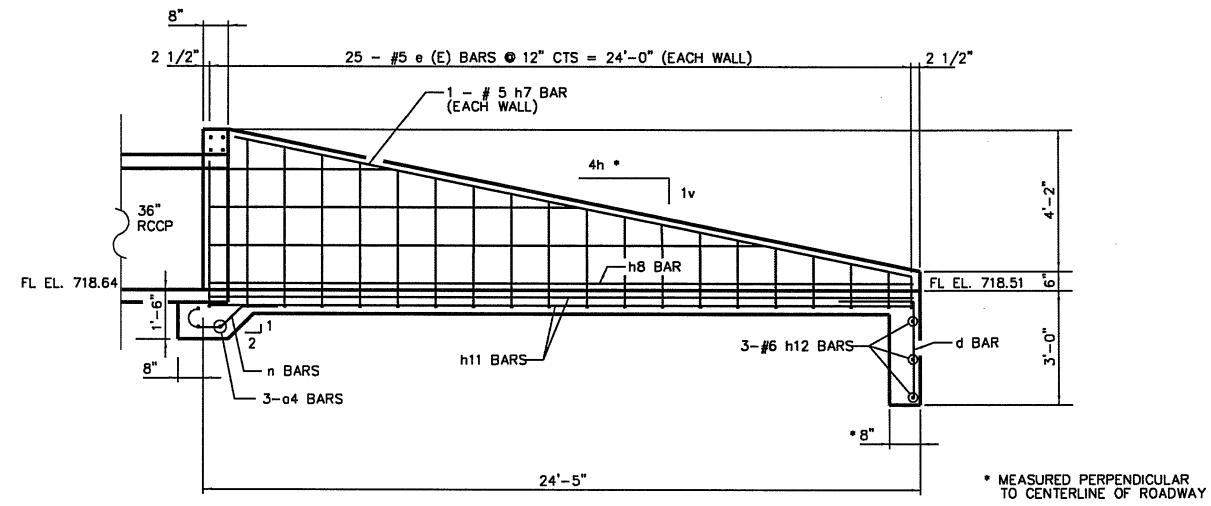
FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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Default	PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/12/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

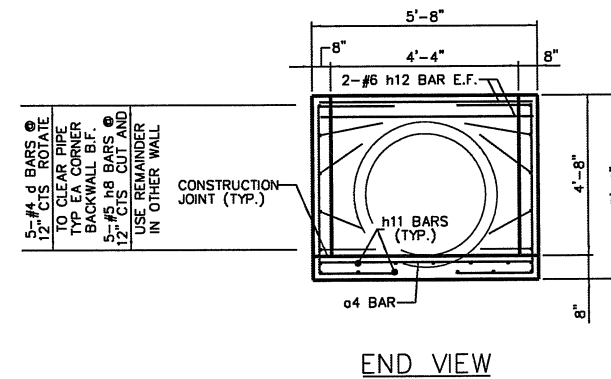
**ENERGY DISSIPATOR END SECTION DETAILS - 2 OF 2
LT. STA. 304 + 10**

SCALE: SHEET 107 OF 197 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	107
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				



OUTLET ELEVATION



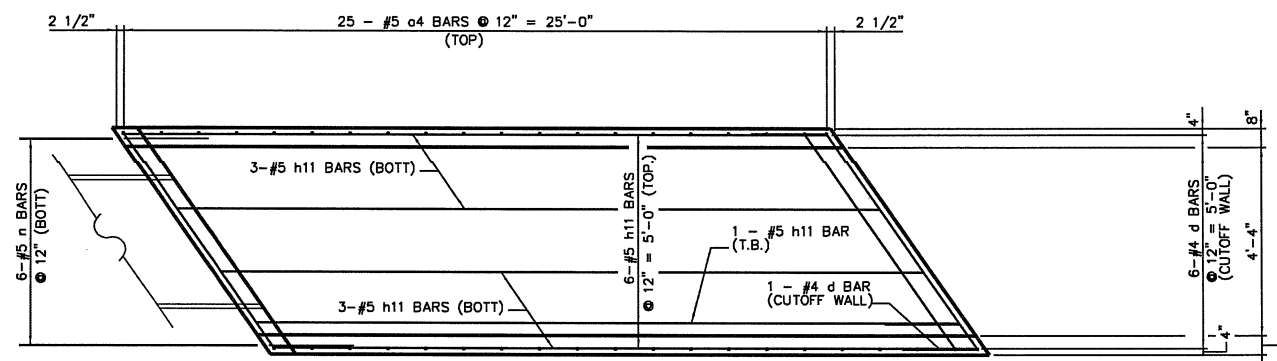
END VIEW

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 36" (SPECIAL)

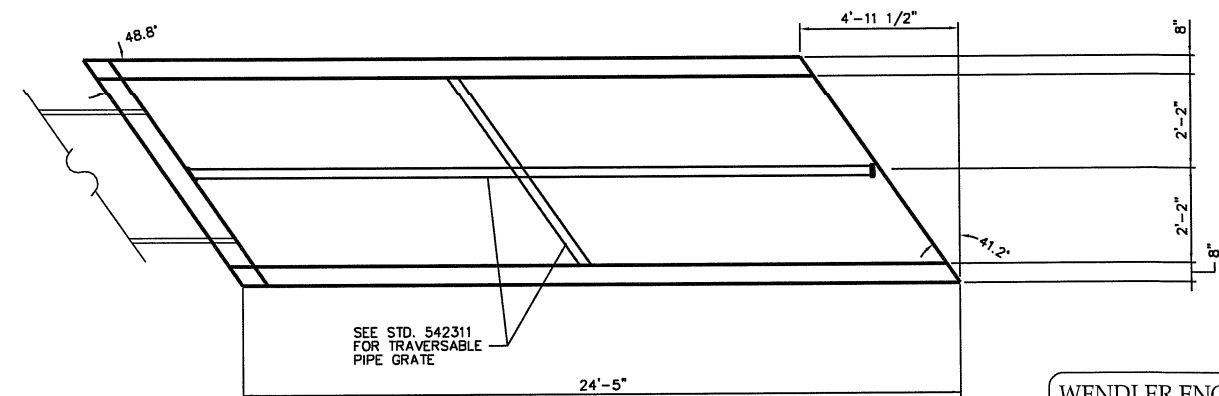
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4	28	5	7'-2"	—
d	16	4	4'-8"	—
h7	2	5	24'-4"	—
h8	5	5	24'-1"	—
h11	12	5	24'-1"	—
h12	7	6	7'-2"	—
n	6	5	4'-10"	—
e	25	5	9'-10"	—
CONCRETE STRUCTURES**			CU. YD.	7.1
REINFORCEMENT BARS, EPOXY COATED**			POUND	1,110

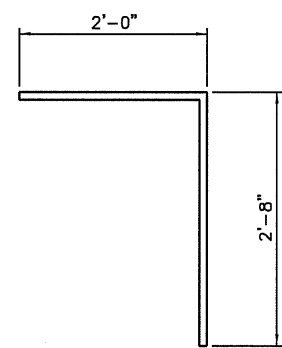
** BILL OF MATERIAL IS FOR INFORMATIONAL PURPOSES ONLY



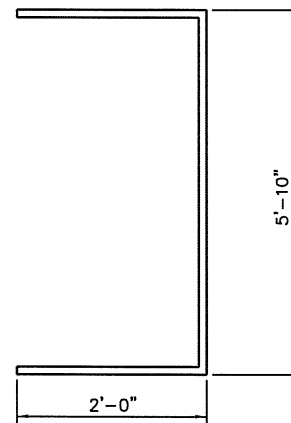
OUTLET PLAN



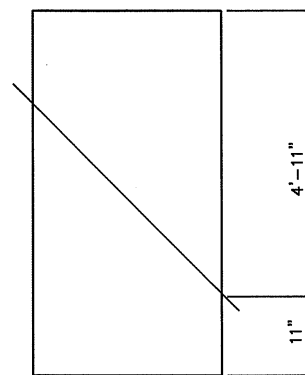
OUTLET PLAN SHOWING PIPE GRATE



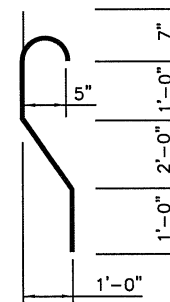
BAR d



BAR e



BAR e(E) CUT DIAGRAM SIDE WALLS ONLY



BAR n

GENERAL NOTES

- SEE STANDARD 542311 FOR TRAVERSABLE PIPE GRATE FOR END SECTIONS.
- CONTRACTOR SHALL FIELD VERIFY THE PIPE LENGTH ONCE END SECTION IS CONSTRUCTED.
- CLASS SI CONCRETE SHALL BE USED. F'C= 4000PSI
- ALL EXPOSED EDGES SHALL HAVE A 3/8" CHAMFER.
- HOLD OUTSIDE BARS AT 2" FROM FORMED FACES IN WALLS.
- HOLD BOTTOM BARS AT 3" CLEAR FROM BOTTOM OF BOTTOM SLAB.

WENDLER ENGINEERING SERVICES, INC.
 Illinois Professional Design Firm No. 184-000848

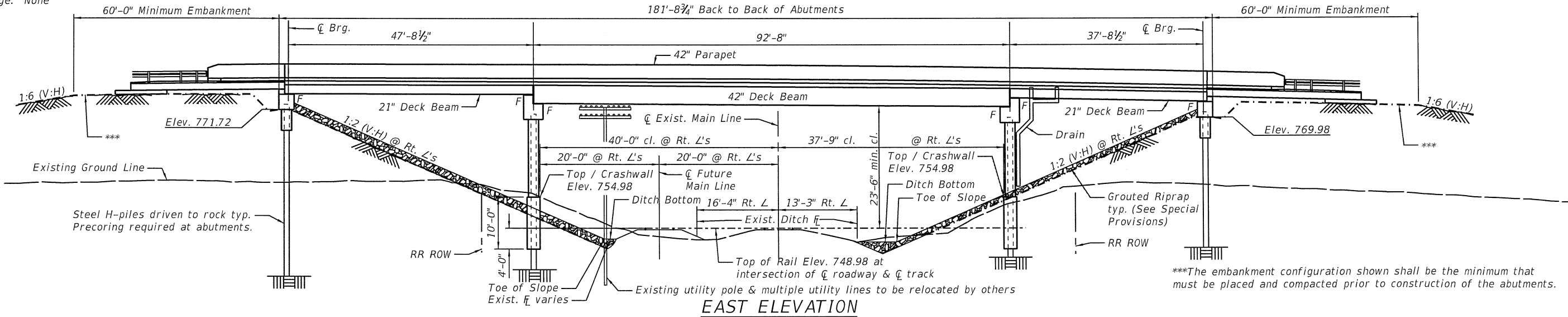
For Structural Adequacy

SCOTT A. BROWN
 LICENSED STRUCTURAL ENGINEER
 081-005981
 STATE OF ILLINOIS

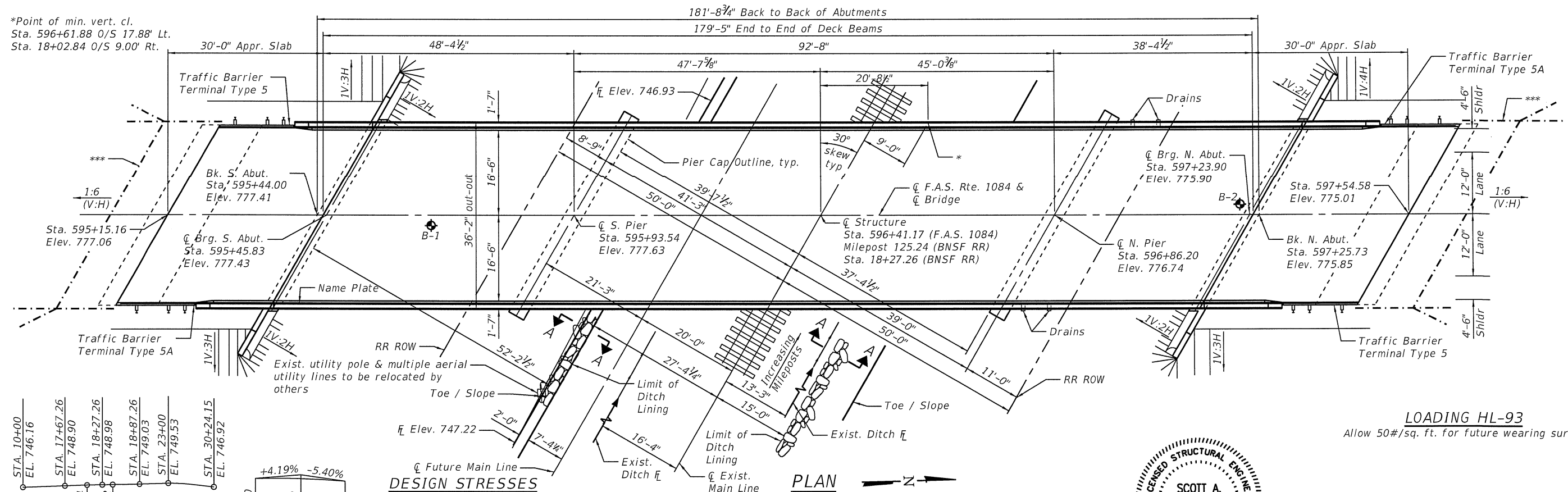
Scott A. Brown 6/17/19 DATE

SCOTT A. BROWN
 DIXON, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-005981
 EXPIRES 11-30-2020

Bench Marks: Bm1: Stainless Steel Rod In Sleeve Marked Car40-1A In The S.E. Quarter Of Section 5-23-6 In Grass Median At The Intersection Of Il Rte. 40 And East Cook Road El. 791.222
 Bm2: Stainless Steel Rod In Sleeve Marked Car40-1B In The S.E. Quarter Of Section 5-23-6, 31.8' North Of The Centerline Of Il Rte. 40, 42.6' West Of A Fence Corner El. 783.301
 Existing Structure No. 008-9904 consists of a wood deck & wood superstructure on wood piles. Structure length is 126' & bridge roadway width is 20'. Proposed Structure Is On A New Alignment.
 Salvage: None



*Point of min. vert. cl.
 Sta. 596+61.88 O/S 17.88' Lt.
 Sta. 18+02.84 O/S 9.00' Rt.



PROFILE GRADE

Existing top of north rail looking north-northeast w/ local survey stationing. The elevation of the existing top-of-rail profile shall be verified before beginning construction.

STA. 10+00	EL. 746.16
STA. 17+67.26	EL. 748.90
STA. 18+02.84	EL. 748.96
STA. 18+27.26	EL. 748.98
STA. 18+87.26	EL. 749.03
STA. 23+00	EL. 749.53
STA. 30+24.15	EL. 746.92

West East

PC STA. 593+77.00 Elev. 773.14

PI STA. 596+22.00 Elev. 783.41

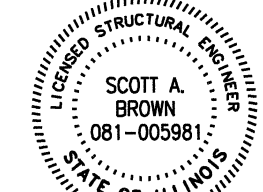
PT STA. 598+67.00 Elev. 770.17

LVC=490'

PROFILE GRADE

Along Centerline F.A.S. Rte. 1084

+4.19% -5.40%



SCOTT A. BROWN
 DIXON, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-005981
 EXPIRES 11-30-2020

GENERAL PLAN AND ELEVATION
IDEAL ROAD (C.H. 8) OVER BNSF RAILWAY
MILEPOST 125.24
DOT# 069873R
F.A.S. RTE. 1084 - SEC. 03-0083-00-BR
CARROLL COUNTY
STATION 596+41.17
STRUCTURE NO. 008-4229

6/17/2019

wendler

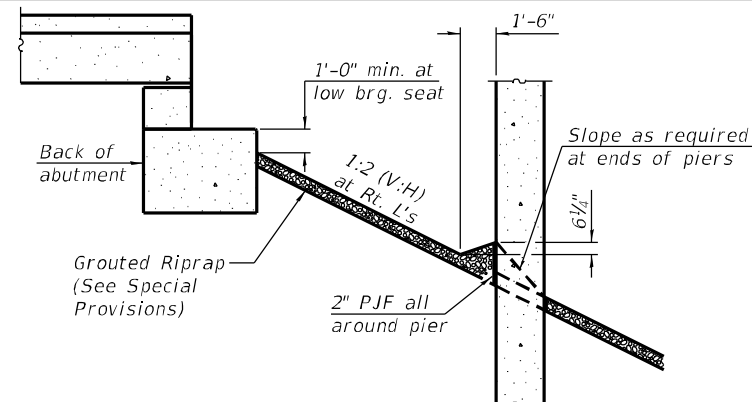
WENDLER ENGINEERING SERVICES, INC.
 698 Timber Creek Road, Dixon, Illinois 61021
 www.wendlergs.com ph: 815.288.2261
 Illinois Professional Design Firm No. 184-000848

DESIGNED - LAN	REVISED -
CHECKED - SAB	REVISED -
DRAWN - LAN	REVISED -
CHECKED - SAB	REVISED -

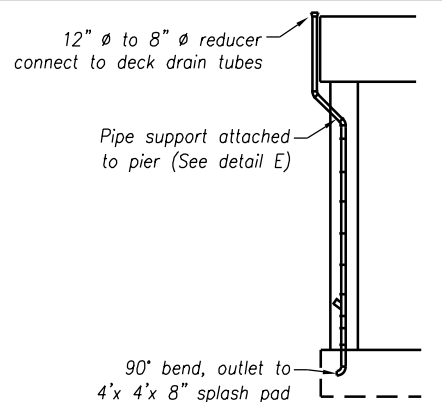
CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 1 OF 17 SHEETS

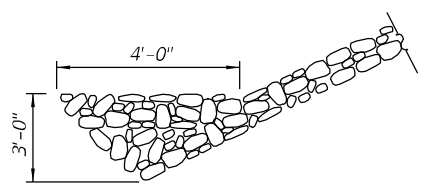
F.A.S. RTE. 1084	SECTION 03-0083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 109
WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



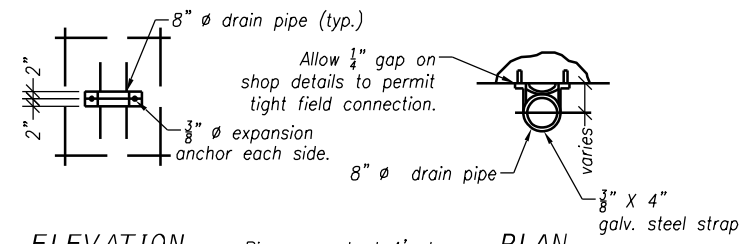
SECTION THRU SLOPEWALL



DRAINAGE SYSTEM ELEVATION
(TYP. EA. END N. PIER)

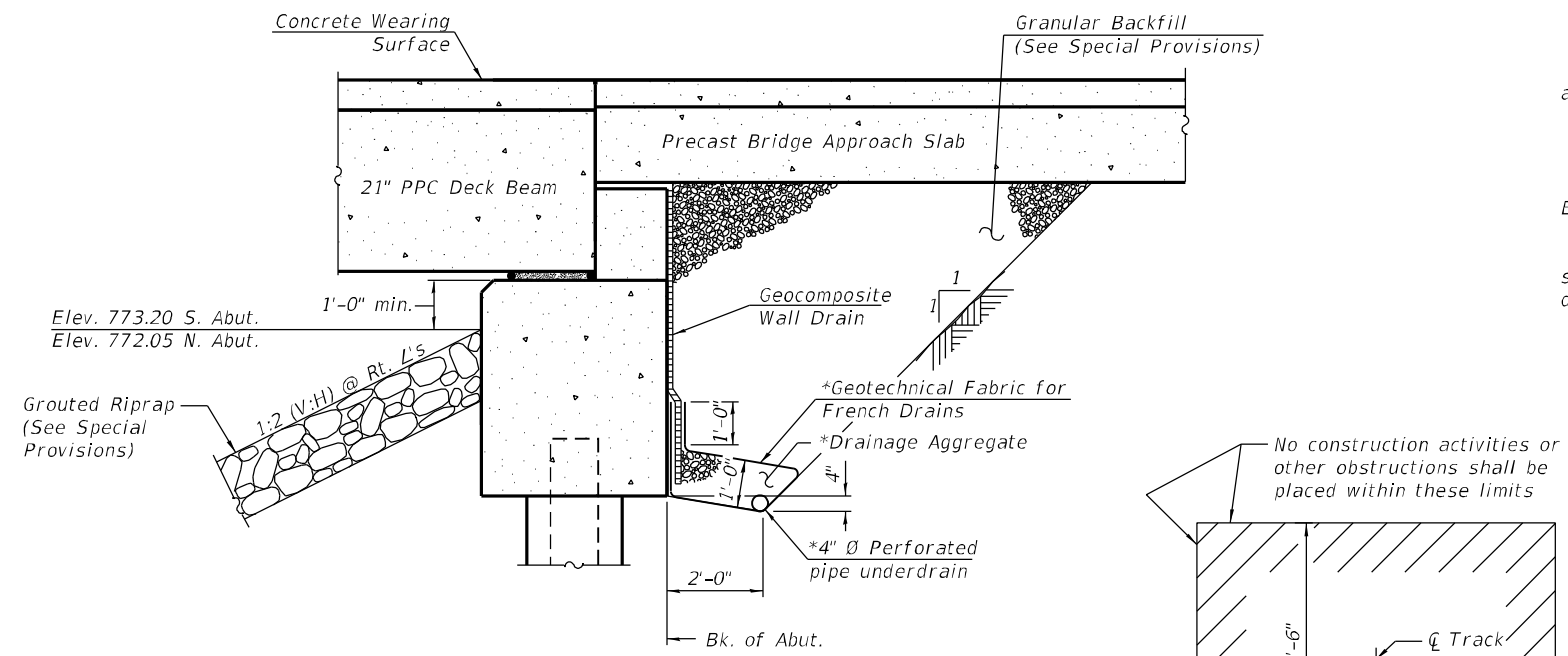


SECTION A-A



ELEVATION PLAN
Pipe support at 4' cts.

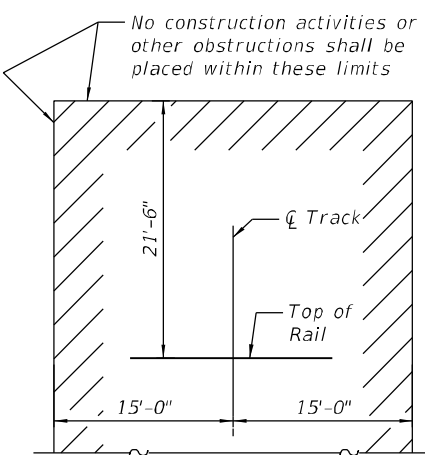
DETAIL E - DRAINAGE SUPPORT DETAIL AT ABUTMENT & PIERS



SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
(Normal to Railroad)

TOTAL BILL OF MATERIAL

CODE	ITEM	UNIT	SUPER	SUB	TOTAL
50100100	Removal Of Existing Structures	Each	0.5	0.5	1
50300225	Concrete Structures	Cu Yd	-	216.6	216.6
50300255	Concrete Superstructure	Cu Yd	53.7	-	53.7
50300260	Bridge Deck Grooving	Sq Yd	825	-	825
50300280	Concrete Encasement	Cu Yd	-	5.6	5.6
50300300	Protective Coat	Sq Yd	1,125	-	1,125
50400405	Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	3,120	-	3,120
50400705	Precast Prestressed Concrete Deck Beams (42" Depth)	Sq Ft	3,333	-	3,333
50800205	Reinforcement Bars, Epoxy Coated	Pound	25,050	24,060	49,110
51201700	Furnishing Steel Piles Hp12X74	Foot	-	1,688	1,688
51202305	Driving Piles	Foot	-	1,688	1,688
51203700	Test Pile Steel Hp12X74	Each	-	4	4
51204650	Pile Shoes	Each	-	28	28
51500100	Name Plates	Each	1	-	1
59100100	Geocomposite Wall Drain	Sq Yd	-	41	41
X5030305	Concrete Wearing Surface, 5"	Sq Yd	958	-	958
X5040100	Precast Bridge Approach Slab	Sq Ft	2,040	-	2,040
X5860110	Granular Backfill For Structures	Cu Yd	-	86	86
Z0046304	Pipe Underdrains For Structures 4"	Foot	-	200	200
Z0018800	Drainage System	L.Sum	-	1	1
XX004565	Grouted Riprap	Sq Yd	-	1,320	1,320

*See Special Provisions

Notes:

Structure Excavation will not be measured for payment and will not be paid for separately. Cost of Structure Excavation is included in cost of Concrete Structures. Protective Coat shall be applied to top of approach slabs, concrete wearing surface, parapets and to inside surfaces of parapets.

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

All abutment berms shall be sloped 1/2" per ft. to drain.

Concrete from the existing structure shall not be buried within 200 feet of the proposed structure.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

All construction joints shall be bonded.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall protect vertical faces of pile caps at abutments and piers, exposed beneath the beam seats, with polyethylene sheeting, to prevent any Non-shrink grout not contained by foam backer rod from leaking down vertical faces of pile caps. Cost included in Precast Prestressed Conc. Deck Bms. of the size specified.

Cost for removal of existing bridge rail is included in cost for Removal of Existing Structures.

Special attention is called to Section 512 of the Standard Specifications.

RAILROAD CONSTRUCTION NOTES

- Any shoring system that impact the Railroad operations and/or supports Railroad embankment shall be designed and constructed per the Railroad temporary Shoring requirements.
- All demolition within the Railroad right-of-way and/or demolition that may impact the Railroad tracks or operations shall comply with the Railroad demolition requirements.
- Erection over the Railroad right-of-way shall be designed to cause no interruption to all Railroad operations.
- The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.
- The proposed grade separation project shall not change the quantity and/or characteristics of the flow in the Railroad ditches and/or drainage structures.
- The contractor must submit a proposed method of erosion and sediment control for any disturbed areas outside of the plan limits and have the method approved by the Railroad prior to beginning any grading on the project site.
- For Railroad coordination please refer to the Railroad's Coordination Requirements as part of the Specifications or Special Provisions of the project.
- Temporary Construction Clearances, including falsework clearances, shall comply with "Minimum Construction Clearances Envelope".
- All permanent clearances shall be verified before project closeout.

INDEX OF BRIDGE SHEETS

- General Plan And Elevation
- General Data
- Top Of Concrete Elevations
- Superstructure
- Superstructure Details
- Precast Bridge Approach Slab
- Precast Bridge Approach Slab
- Precast Bridge Approach Slab
- 21" X 48" Ppc Deck Beam
- 21" X 48" Ppc Deck Beam Details
- 42" X 48" Ppc Deck Beam
- 42" X 48" Ppc Deck Beam Details
- Abutments
- Piers
- Hp Pile Details
- Boring Logs 1 Of 2
- Boring Logs 2 Of 2

BURLINGTON NORTHERN SANTA FE RAILROAD
BUILT 2020 BY CARROLL COUNTY
F.A.S. RTE. 1084 SEC. 03-00083-00-BR
STA. 596+41.17 LOADING HL-93
STRUCTURE NO. 008-4229

NAME PLATE
See Std. 515001

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CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Millfledgeville, Illinois

GENERAL DATA
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 2 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 110
WES* 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				

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WEST EDGE OF SHOULDER

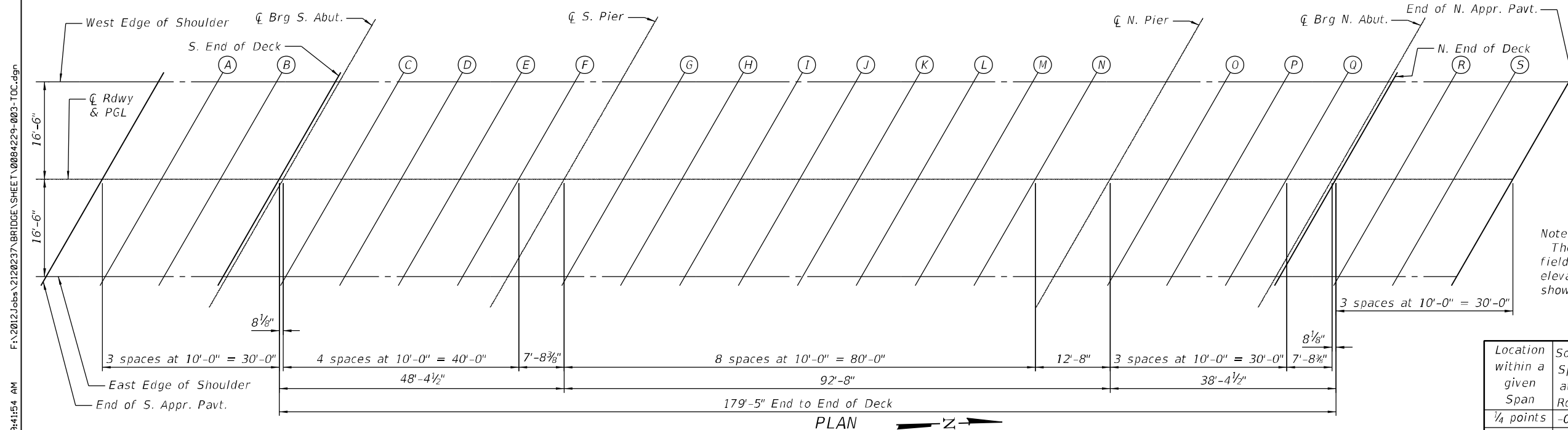
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection (where applicable)*
End S. Appr. Pav't.	595+24.69	-16.50	776.94	-
A	595+34.69	-16.50	777.06	-
B	595+44.69	-16.50	777.16	-
S. End of Deck	595+54.69	-16.50	777.24	-
☐ S. Abut.	595+55.36	-16.50	777.24	-
C	595+65.36	-16.50	777.30	777.32
D	595+75.36	-16.50	777.34	777.37
E	595+85.36	-16.50	777.37	777.39
F	595+95.36	-16.50	777.37	777.38
☐ S. Pier	596+03.07	-16.50	777.35	-
G	596+13.07	-16.50	777.32	777.34
H	596+23.07	-16.50	777.27	777.30
I	596+33.07	-16.50	777.20	777.24
J	596+43.07	-16.50	777.10	777.16
K	596+53.07	-16.50	776.99	777.05
L	596+63.07	-16.50	776.86	776.91
M	596+73.07	-16.50	776.71	776.75
N	596+83.07	-16.50	776.54	776.56
☐ N. Pier	596+95.73	-16.50	776.30	-
O	597+05.73	-16.50	776.08	776.09
P	597+15.73	-16.50	775.85	775.86
Q	597+25.73	-16.50	775.59	775.60
☐ N. Abut.	597+33.43	-16.50	775.42	-
N. End of Deck	597+34.11	-16.50	775.41	-
R	597+44.11	-16.50	775.21	-
S	597+54.11	-16.50	774.99	-
End N. Appr. Pav't.	597+64.11	-16.50	774.75	-

☐ ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection (where applicable)*
End S. Appr. Pav't.	595+15.16	0.00	777.06	-
A	595+25.16	0.00	777.20	-
B	595+35.16	0.00	777.32	-
S. End of Deck	595+45.16	0.00	777.42	-
☐ S. Abut.	595+45.83	0.00	777.43	-
C	595+55.83	0.00	777.50	777.51
D	595+65.83	0.00	777.56	777.58
E	595+75.83	0.00	777.60	777.62
F	595+85.83	0.00	777.62	777.63
☐ S. Pier	595+93.54	0.00	777.63	-
G	596+03.54	0.00	777.61	777.62
H	596+13.54	0.00	777.58	777.60
I	596+23.54	0.00	777.52	777.55
J	596+33.54	0.00	777.45	777.48
K	596+43.54	0.00	777.36	777.39
L	596+53.54	0.00	777.24	777.27
M	596+63.54	0.00	777.11	777.14
N	596+73.54	0.00	776.96	776.97
☐ N. Pier	596+86.20	0.00	776.74	-
O	596+96.20	0.00	776.54	776.55
P	597+06.20	0.00	776.33	776.33
Q	597+16.20	0.00	776.09	776.10
☐ N. Abut.	597+23.90	0.00	775.90	-
N. End of Deck	597+24.58	0.00	775.88	-
R	597+34.58	0.00	775.61	-
S	597+44.58	0.00	775.32	-
End N. Appr. Pav't.	597+54.58	0.00	775.01	-

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection (where applicable)*
End S. Appr. Pav't.	595+05.63	16.50	776.65	-
A	595+15.63	16.50	776.81	-
B	595+25.63	16.50	776.95	-
S. End of Deck	595+35.63	16.50	777.07	-
☐ S. Abut.	595+36.30	16.50	777.08	-
C	595+46.30	16.50	777.17	777.19
D	595+56.30	16.50	777.25	777.27
E	595+66.30	16.50	777.31	777.33
F	595+76.30	16.50	777.35	777.36
☐ S. Pier	595+84.01	16.50	777.36	-
G	595+94.01	16.50	777.37	777.38
H	596+04.01	16.50	777.35	777.39
I	596+14.01	16.50	777.32	777.36
J	596+24.01	16.50	777.26	777.31
K	596+34.01	16.50	777.19	777.24
L	596+44.01	16.50	777.09	777.14
M	596+54.01	16.50	776.98	777.02
N	596+64.01	16.50	776.85	776.87
☐ N. Pier	596+76.67	16.50	776.65	-
O	596+86.67	16.50	776.47	776.48
P	596+96.67	16.50	776.28	776.29
Q	597+06.67	16.50	776.06	776.06
☐ N. Abut.	597+14.37	16.50	775.88	-
N. End of Deck	597+15.05	16.50	775.86	-
R	597+25.05	16.50	775.61	-
S	597+35.05	16.50	775.34	-
End N. Appr. Pav't.	597+45.05	16.50	775.05	-



*The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Theoretical Grade Elevations Adjusted For Dead Load Deflection are adjusted for dead load due to concrete wearing surface dead load only at ☐ ROADWAY & PROFILE GRADE LINE. Theoretical Grade Elevations Adjusted For Dead Load Deflection are adjusted for dead load due to dead load of both concrete wearing surface and parapet at SHOULDER EDGES.

Note:
The below deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables.

DEAD LOAD DEFLECTIONS (units of feet)

Location within a given Span	South Rdwy	Center Rdwy	North Rdwy	South Shldr	Center Shldr	North Shldr
1/4 points	-0.01	-0.03	-0.00	-0.02	-0.04	-0.01
midspan	-0.02	-0.04	-0.01	-0.03	-0.06	-0.01

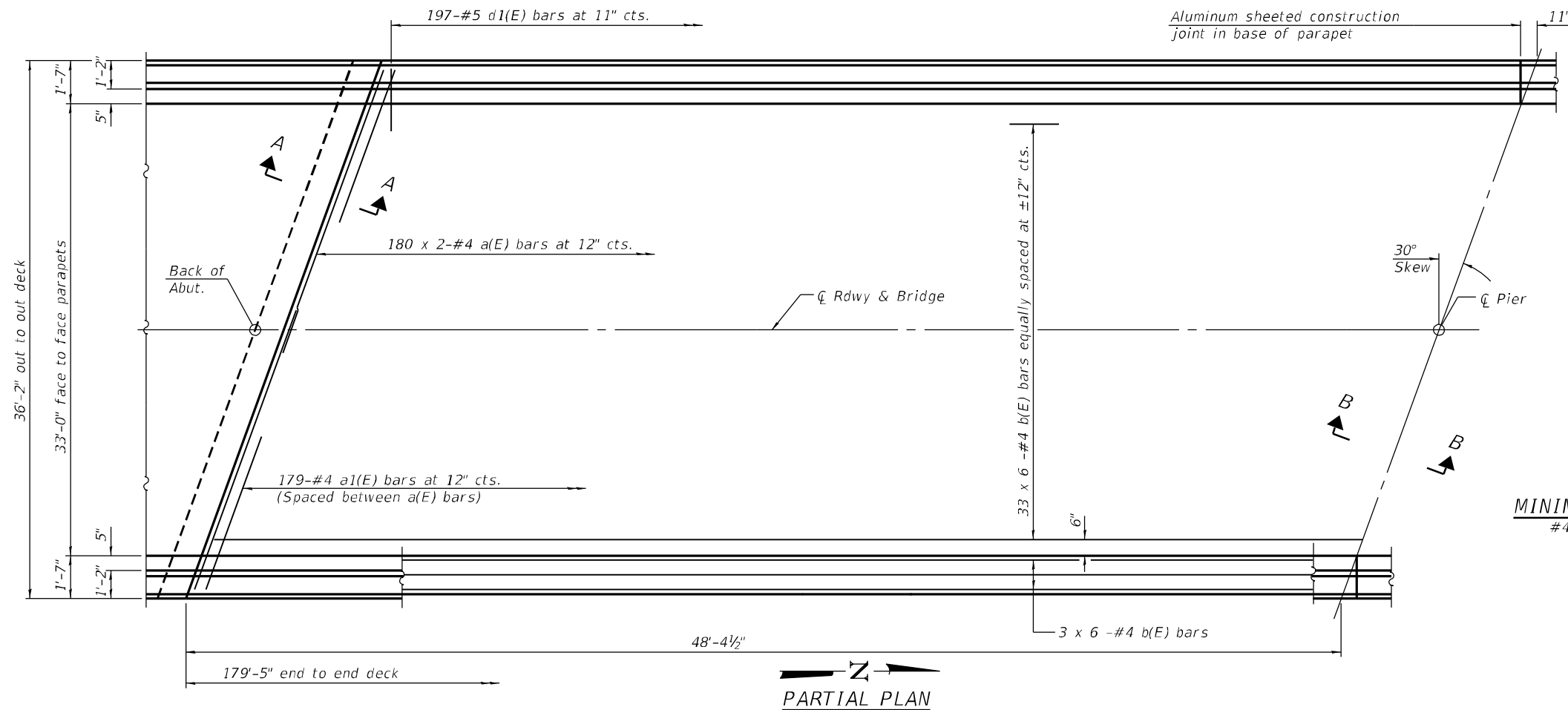
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Illinois Professional Design Firm No. 184-000848

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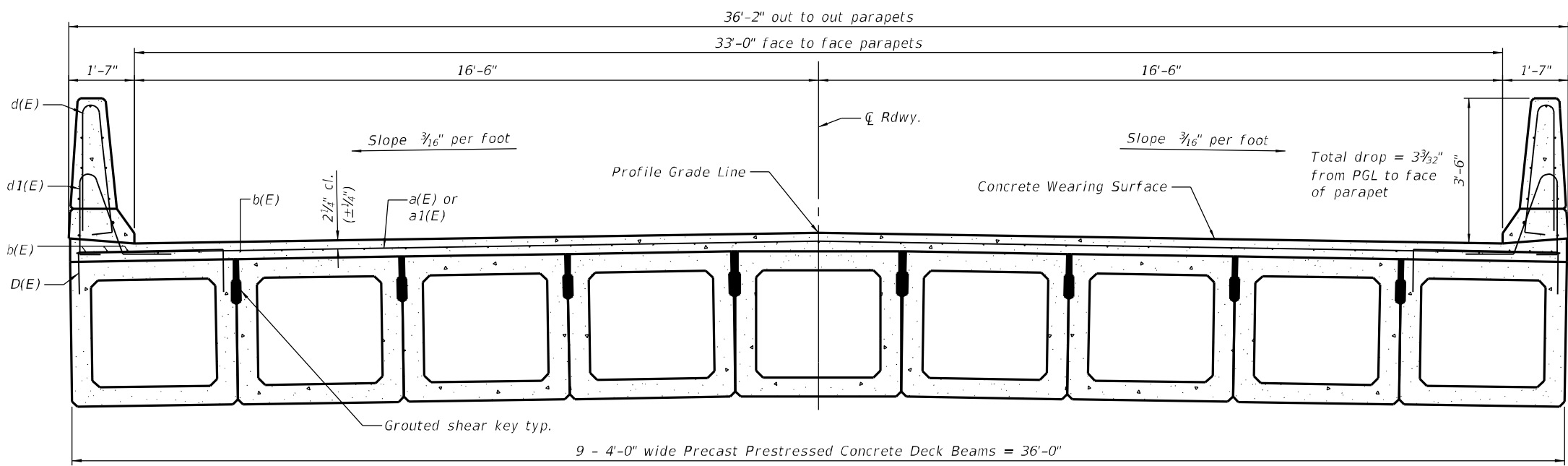
CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

TOP OF CONCRETE ELEVATIONS
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 3 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 111
WES* 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				

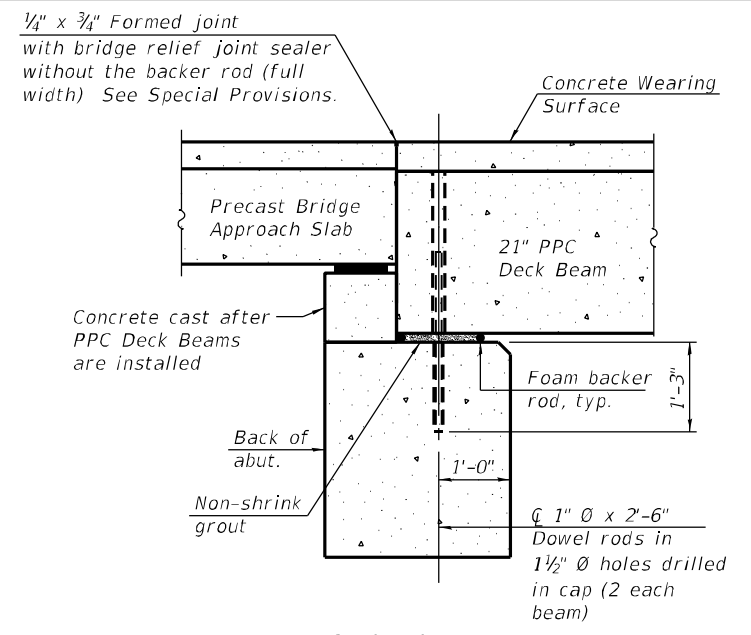


PARTIAL PLAN



CROSS SECTION

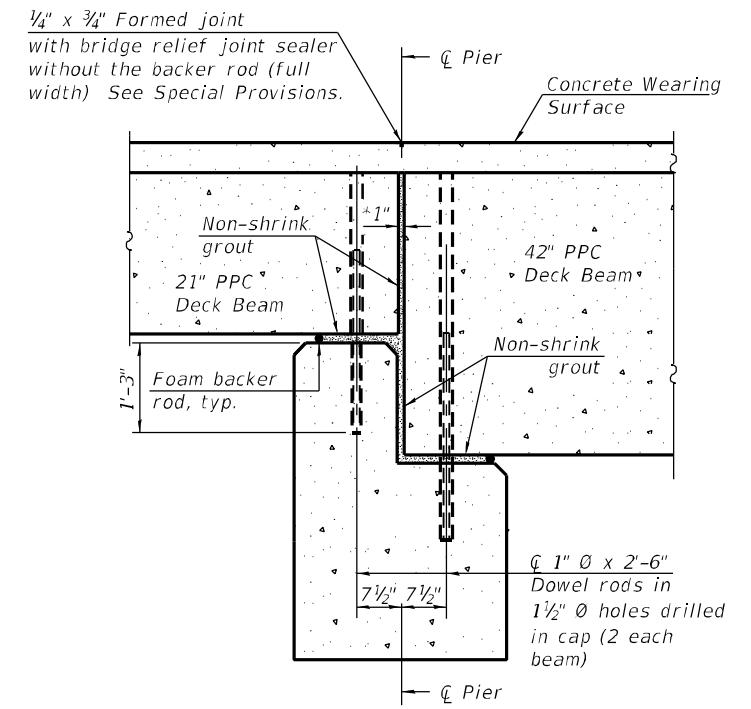
(Looking North - Center Span with 42" deep x 48" wide beams is shown. Outside Spans with 21" deep x 48" wide beams are similar.)



SECTION A-A

(Dimensions are at Rt. L's)

Notes:
 All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
 See sheet 10 of 17 for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:
 See sheet 5 of 17 for Superstructure Details and Bill of Material.
 Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
 Spacing of a(E) and a1(E) bars shall be measured along the \bar{C} of structure.

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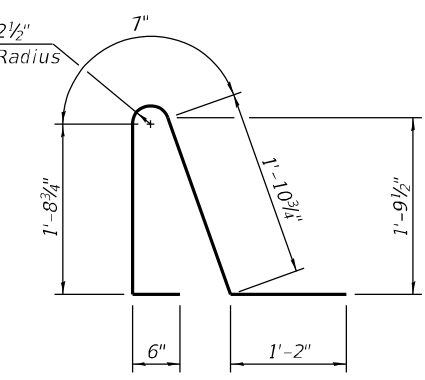
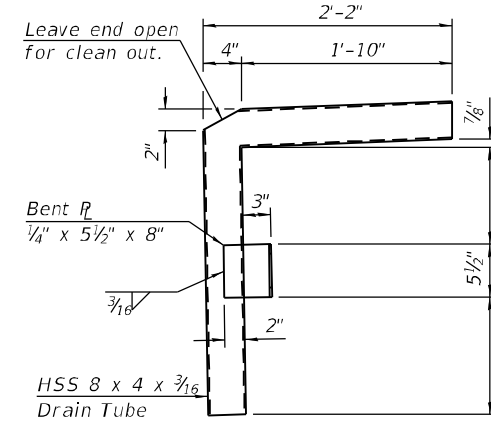
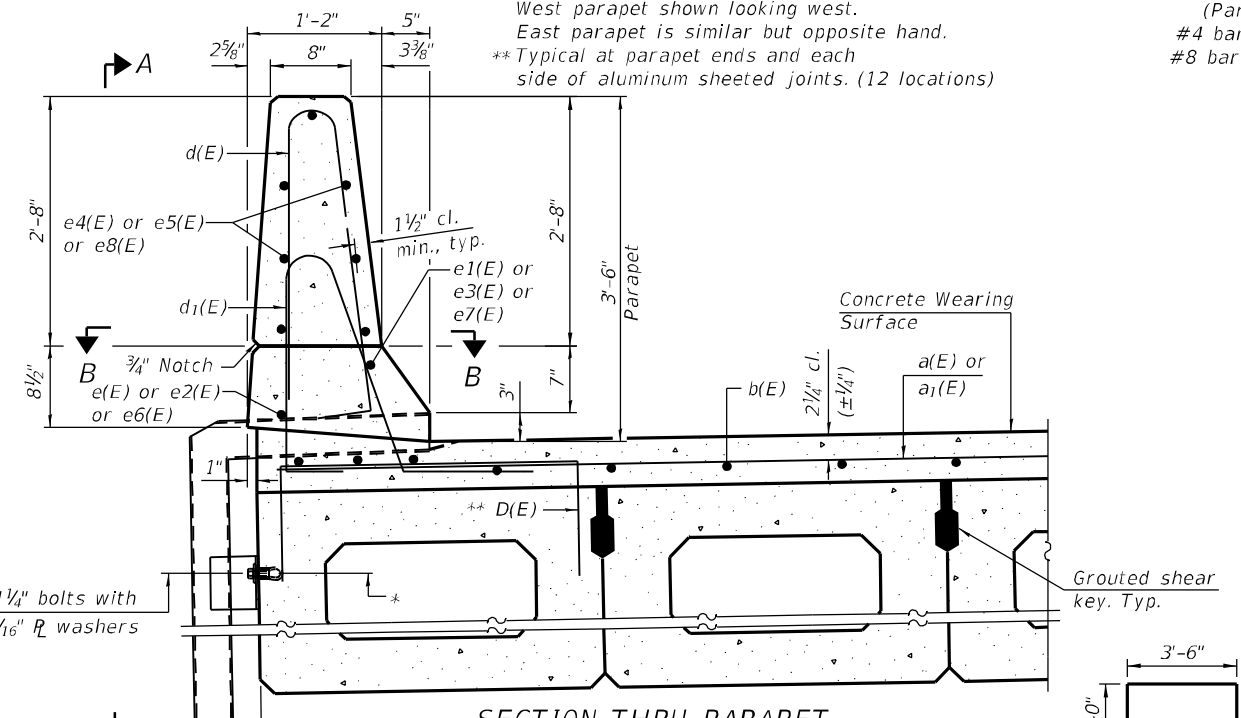
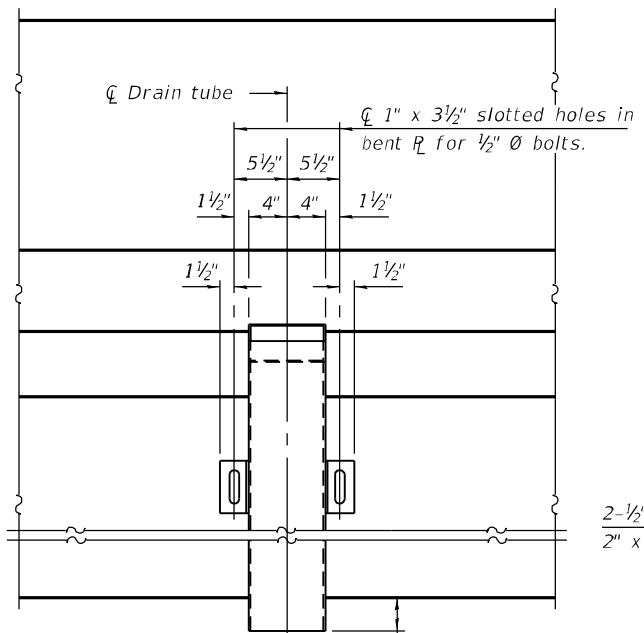
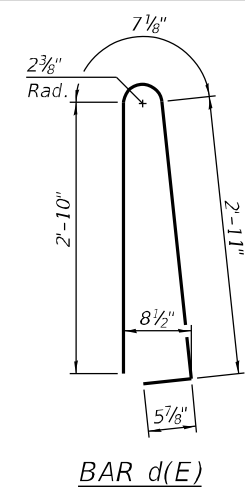
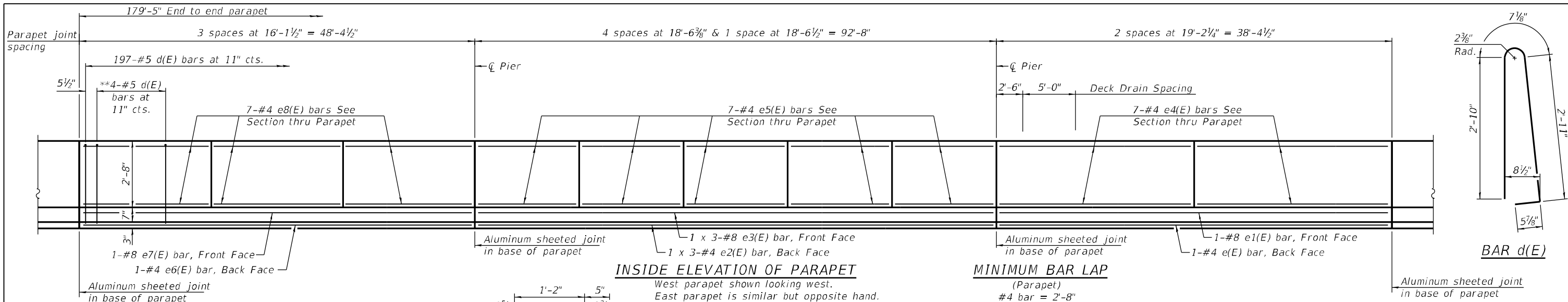
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IDEAL ROAD OVER BNSF RAILWAY
 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Millfedgeville, Illinois

SUPERSTRUCTURE
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 4 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	112
WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	360	#4	21'-10"	—	
a1(E)	358	#4	6'-0"	—	
b(E)	234	#4	30'-4"	—	
d(E)	442	#5	6'-10"	U	
d1(E)	394	#5	5'-11"	U	
e(E)	2	#4	38'-0"	—	
e1(E)	2	#8	38'-0"	—	
e2(E)	6	#4	32'-7"	—	
e3(E)	6	#8	34'-9"	—	
e4(E)	28	#4	18'-10"	—	
e5(E)	70	#4	18'-2"	—	
e6(E)	2	#4	48'-0"	—	
e7(E)	2	#8	48'-0"	—	
e8(E)	42	#4	15'-9"	—	
Reinforcement Bars, Epoxy Coated				Pound	19,910
Concrete Superstructure				Cu. Yd.	46.0
Concrete Wearing Surface, 5"				Sq. Yd.	721

Bars indicated thus 1 x 3-#4 etc. indicates 1 line of bars with 3 lengths per line.

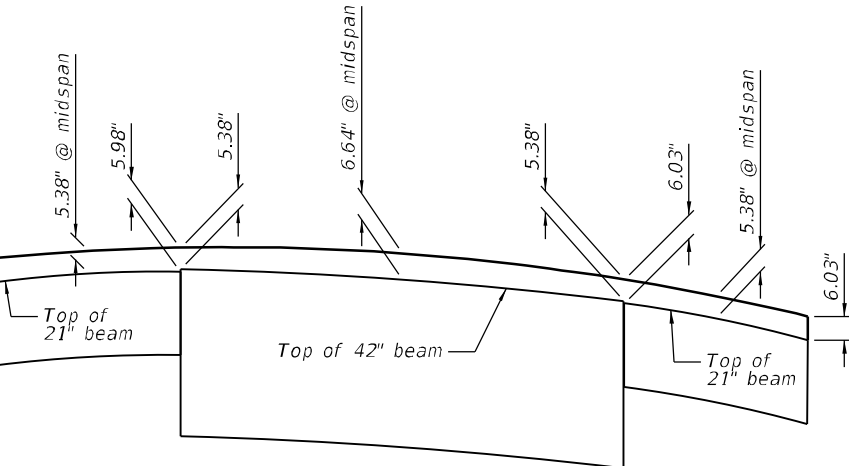
Note:
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

* Loop Ferrule inserts for 1/2" bolts. Place at center of beam depth.
** Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.

Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, use T with a 3/8" backer rod.

1/2" Preformed Self-Expanding Cork Joint Filler according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.

Const. Jts. at Piers 1/8" Aluminum sheet ASTM B 209 alloy 3003-H14, coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure



For information only - looking west

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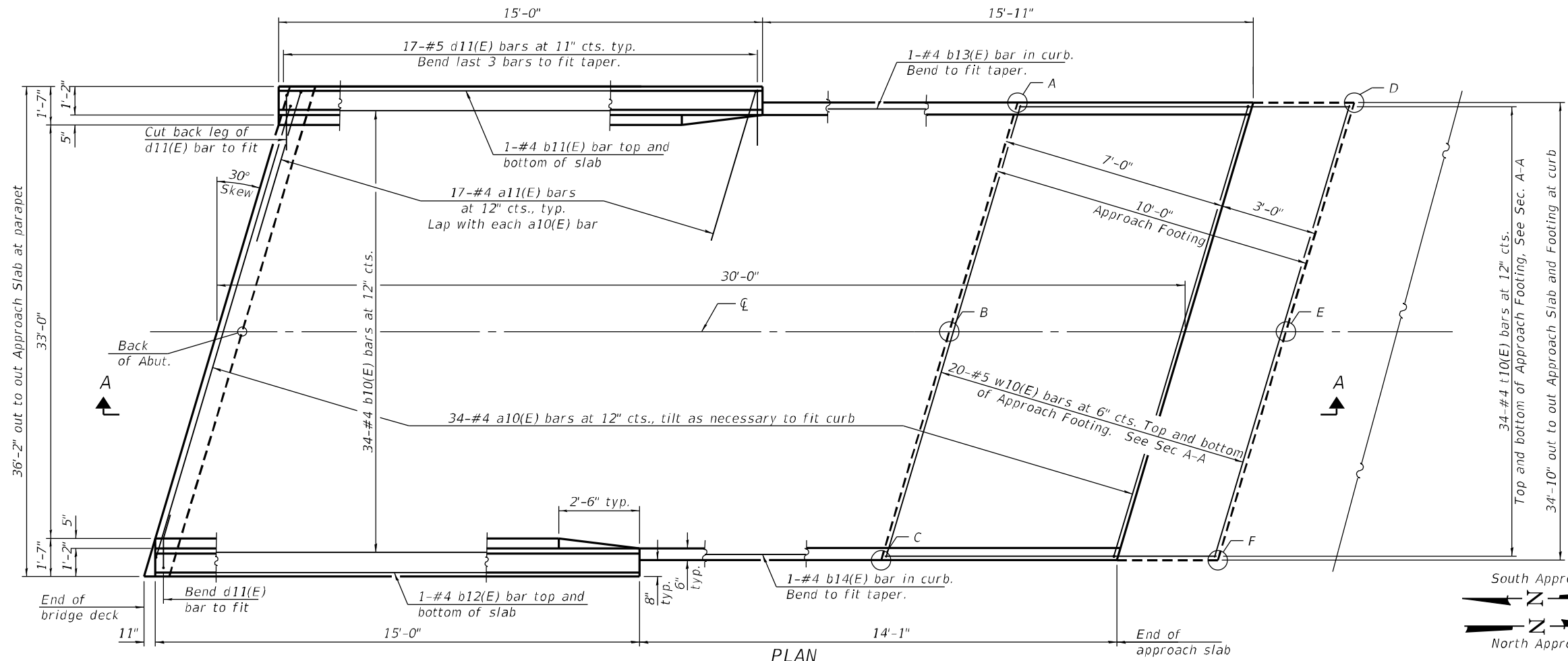
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IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

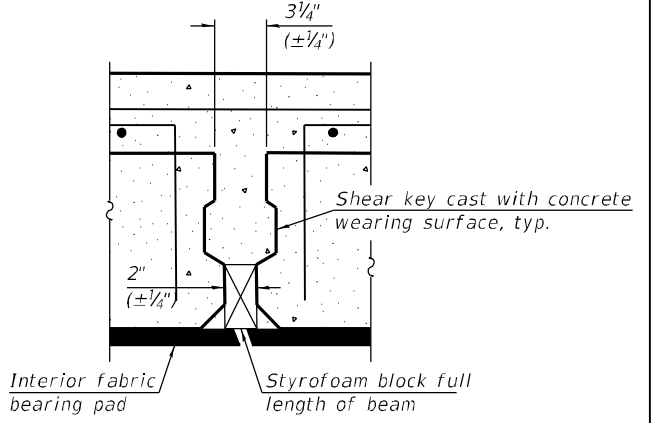
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 5 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 113
WES* 2120237		CONTRACT NO. 85645		
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PLAN

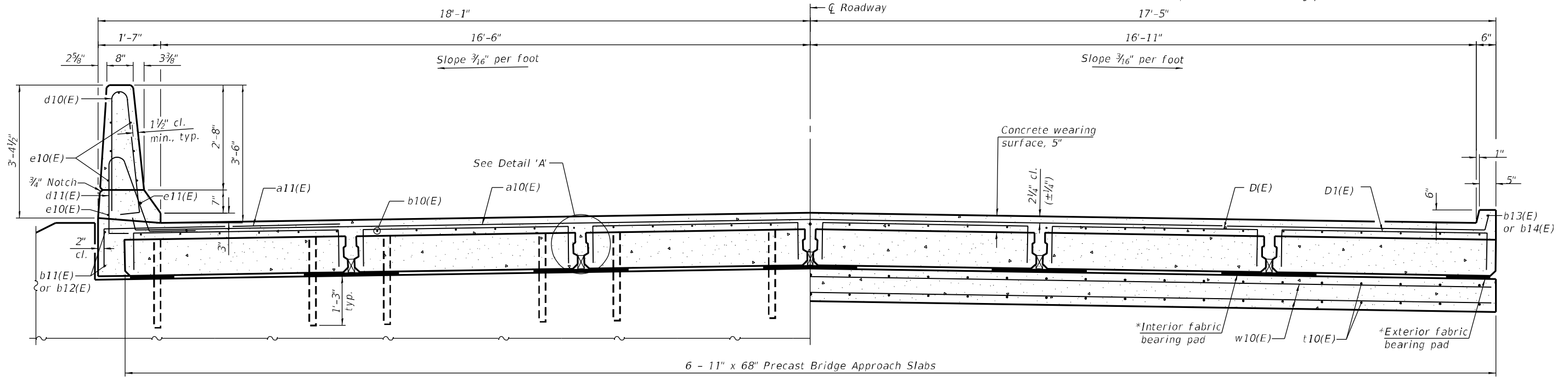


DETAIL 'A'

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	775.39	774.55	773.56	772.73
B	775.80	774.97	773.89	773.05
C	775.65	774.82	773.91	773.08
D	775.20	774.36	773.29	772.45
E	775.63	774.80	773.52	772.69
F	775.51	774.68	773.57	772.73

* Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.



NEAR ABUTMENT

CROSS SECTION

AT APPROACH FOOTING

Note: Concrete Wearing Surface thickness varies in location(s) of Superelevation Transition.

(Sheet 1 of 3)

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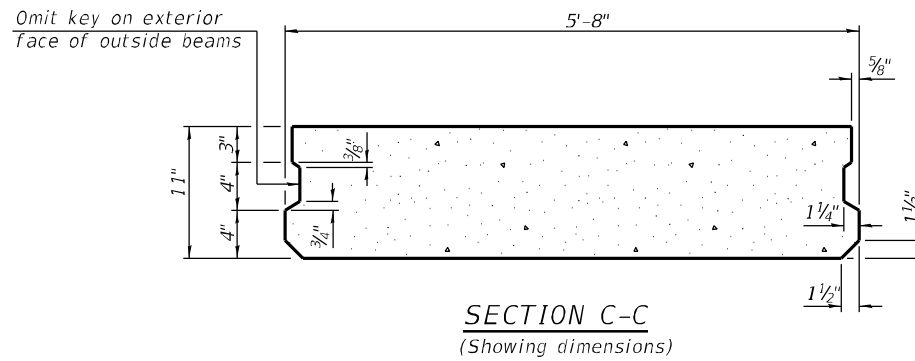
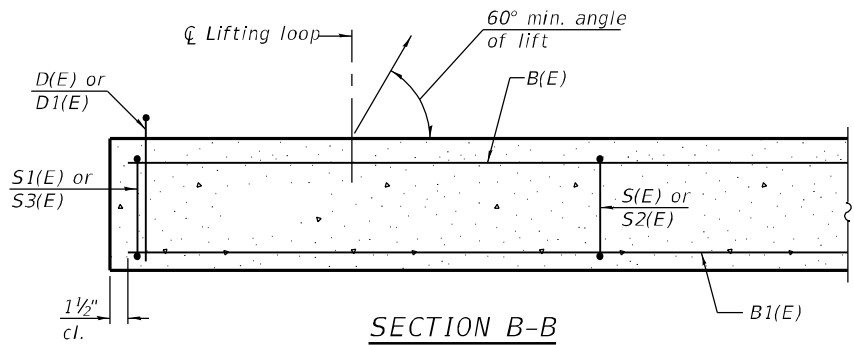
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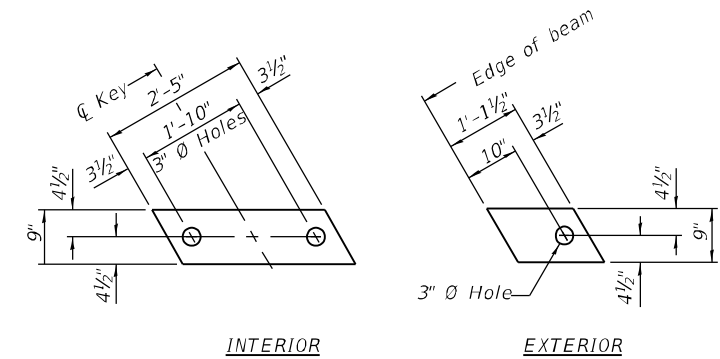
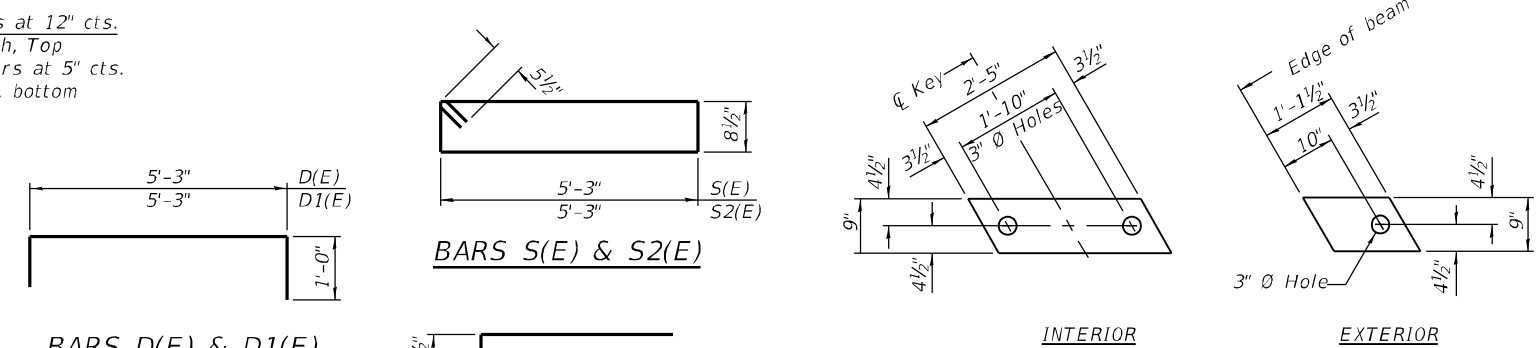
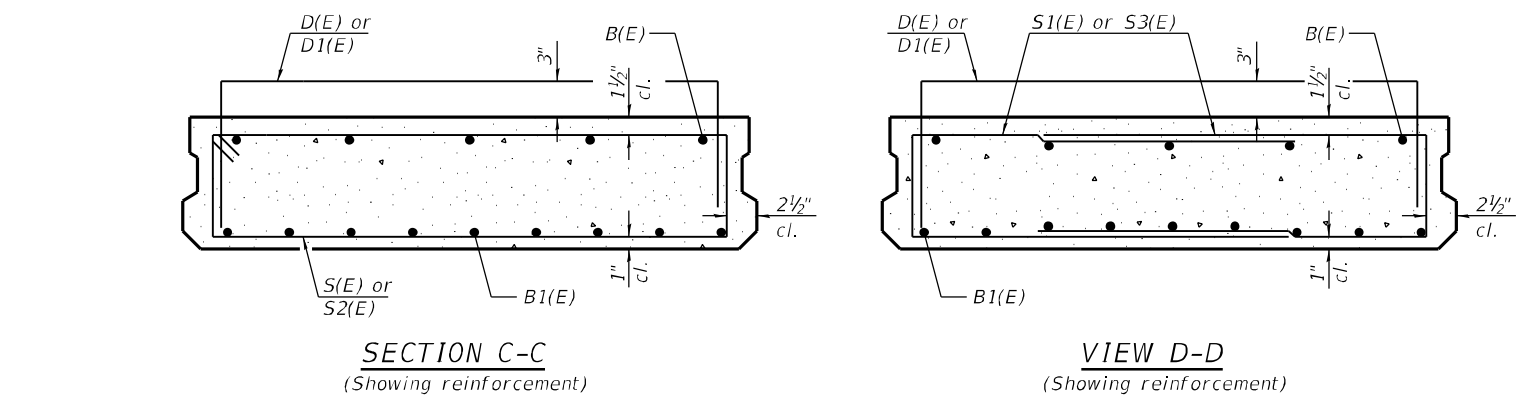
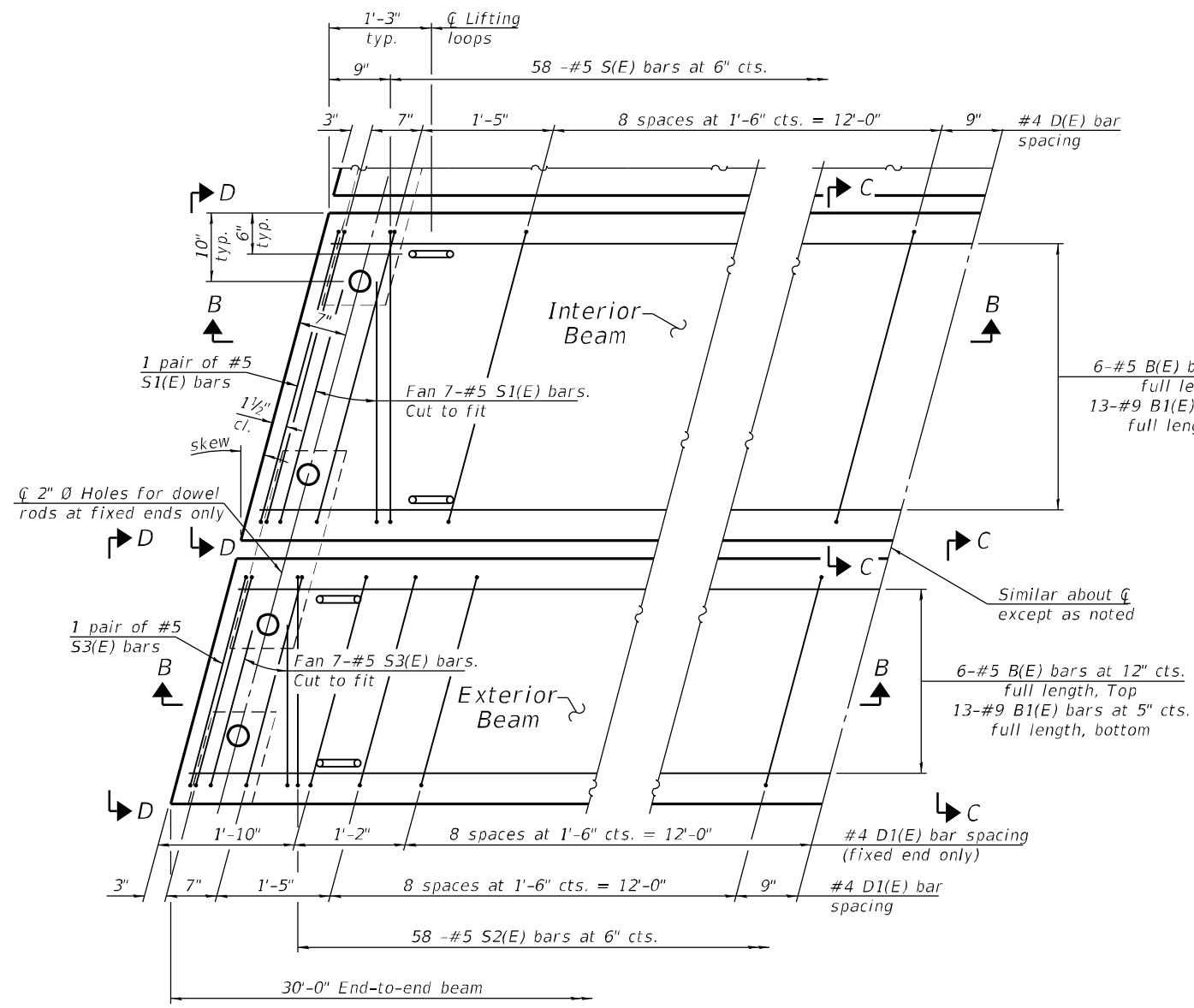
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Latitude 41°58' Longitude 89°49' near Millfedgeville, Illinois

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 6 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 114
WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



Notes:
 The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
 Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.
 The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products" Prepared and Published by Illinois Department of Transportation, Bureau of Materials, Springfield, Illinois, January 1, 2017.
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
 A minimum 2 1/2" Ø lifting pins shall be used to engage the lifting loops during handling.
 Compressive strength of precast concrete, f'c shall be 6,000 psi.
 Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



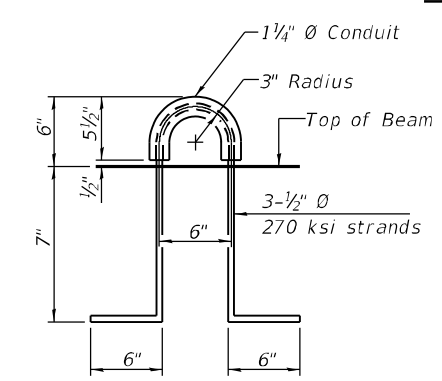
Notes:
 Bearing pads at fixed end shall be 1/2" thick and bearing pads at expansion end shall be 3/4" thick.
 Omit holes for fabric bearing pads at approach slab footing end of beams.

BAR LIST EACH INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D(E)	22	#4	7'-3"	┌
S(E)	58	#5	12'-10"	▬
S1(E)	18	#5	10'-5"	▬

BAR LIST EACH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D1(E)	32	#4	7'-3"	┌
S2(E)	58	#5	12'-10"	▬
S3(E)	18	#5	10'-5"	▬



LIFTING LOOP DETAIL
 (An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

(Sheet 2 of 3)

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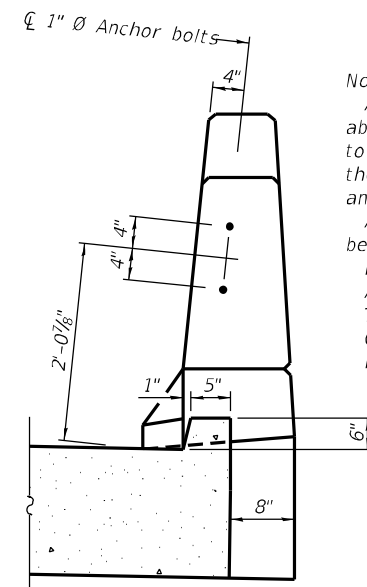
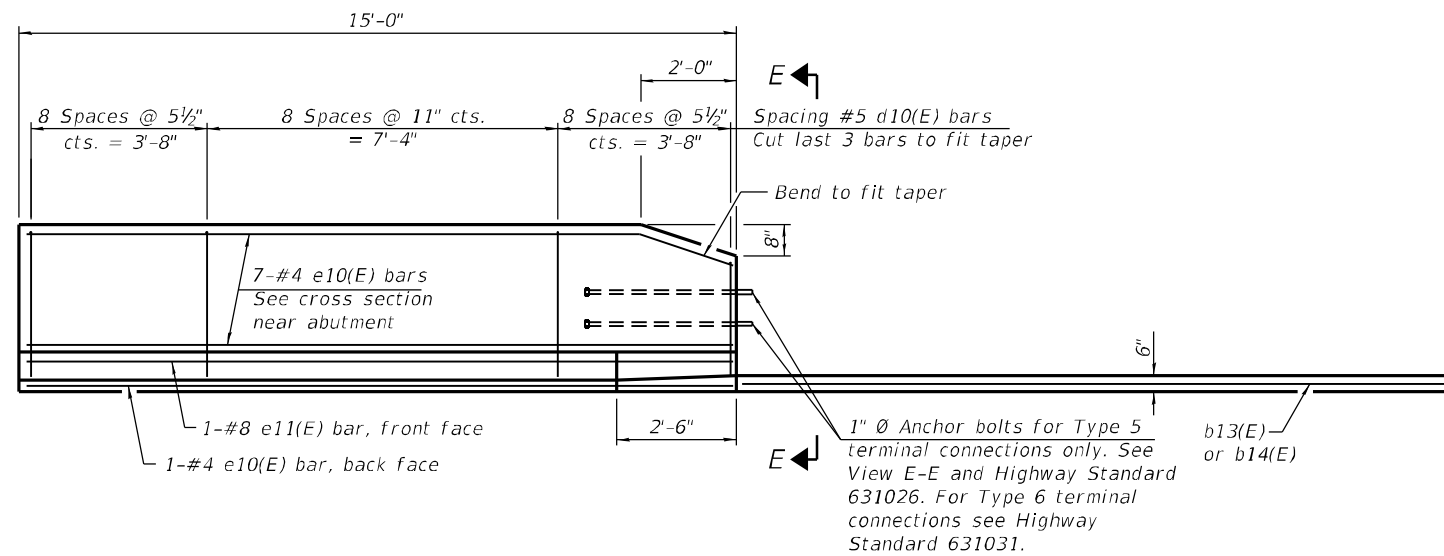
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CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Millfledgeville, Illinois

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 7 OF 17 SHEETS

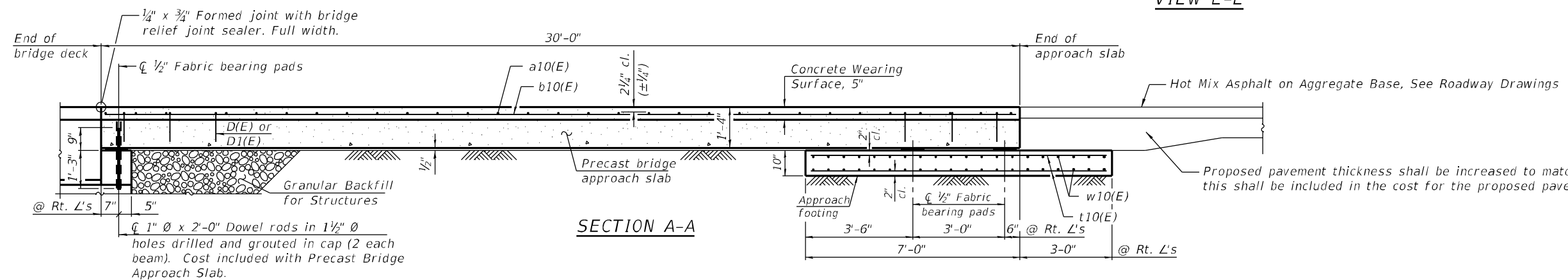
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	115
WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



Notes:
 After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.
 Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5". Parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 17.

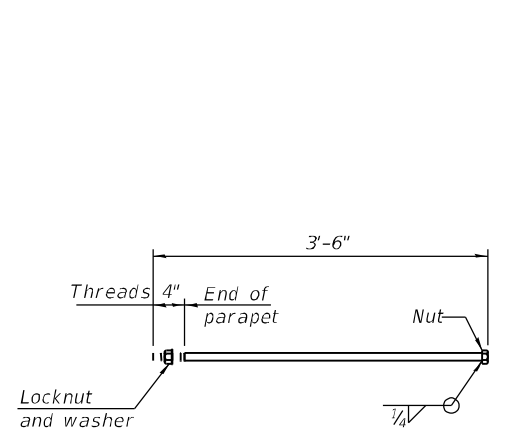
INSIDE ELEVATION OF PARAPET AND CURB

VIEW E-E



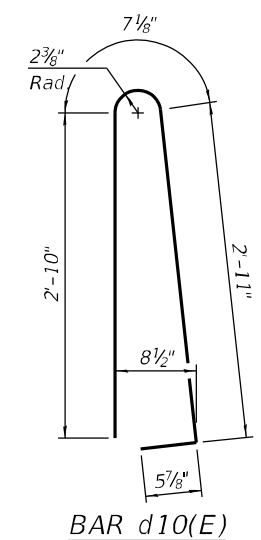
SECTION A-A

Proposed pavement thickness shall be increased to match the bridge approach pavement. this shall be included in the cost for the proposed pavement and not paid for separately.

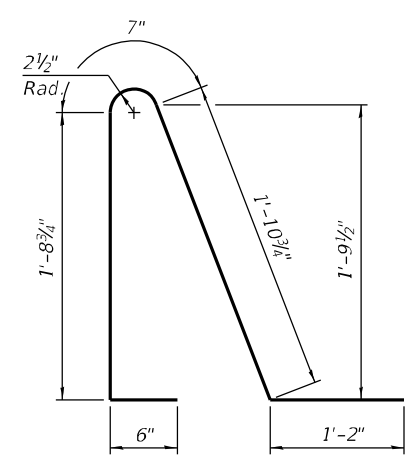


1" Ø ANCHOR BOLT

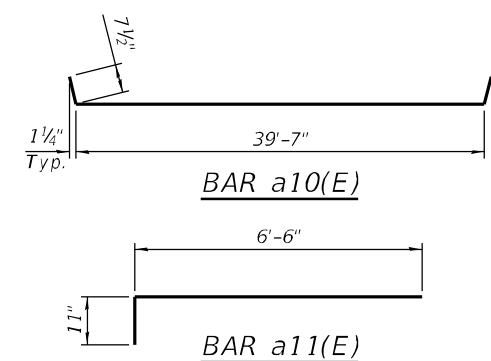
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.
 Cost of anchor bolt assemblies included with Concrete Superstructure)



BAR d10(E)



BAR d11(E)



BAR a10(E)

BAR a11(E)

TWO APPROACHES - BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	72	#4	40'-10"	U
a11(E)	68	#4	7'-5"	U
b10(E)	68	#4	29'-8"	—
b11(E)	4	#4	14'-8"	—
b12(E)	4	#4	14'-8"	—
b13(E)	2	#4	15'-7"	—
b14(E)	2	#4	13'-9"	—
d10(E)	68	#5	6'-10"	U
d11(E)	68	#5	5'-11"	U
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t10(E)	136	#4	11'-2"	—
w10(E)	80	#5	39'-10"	—
Concrete Superstructure			Cu. Yd.	7.7
Concrete Structures			Cu. Yd.	24.8
Reinforcement Bars, Epoxy Coated			Pound	9,480
Precast Bridge Approach Slab			Sq. Ft.	2,040
Concrete Wearing Surface, 5"			Sq. Yd.	237

(Sheet 3 of 3)

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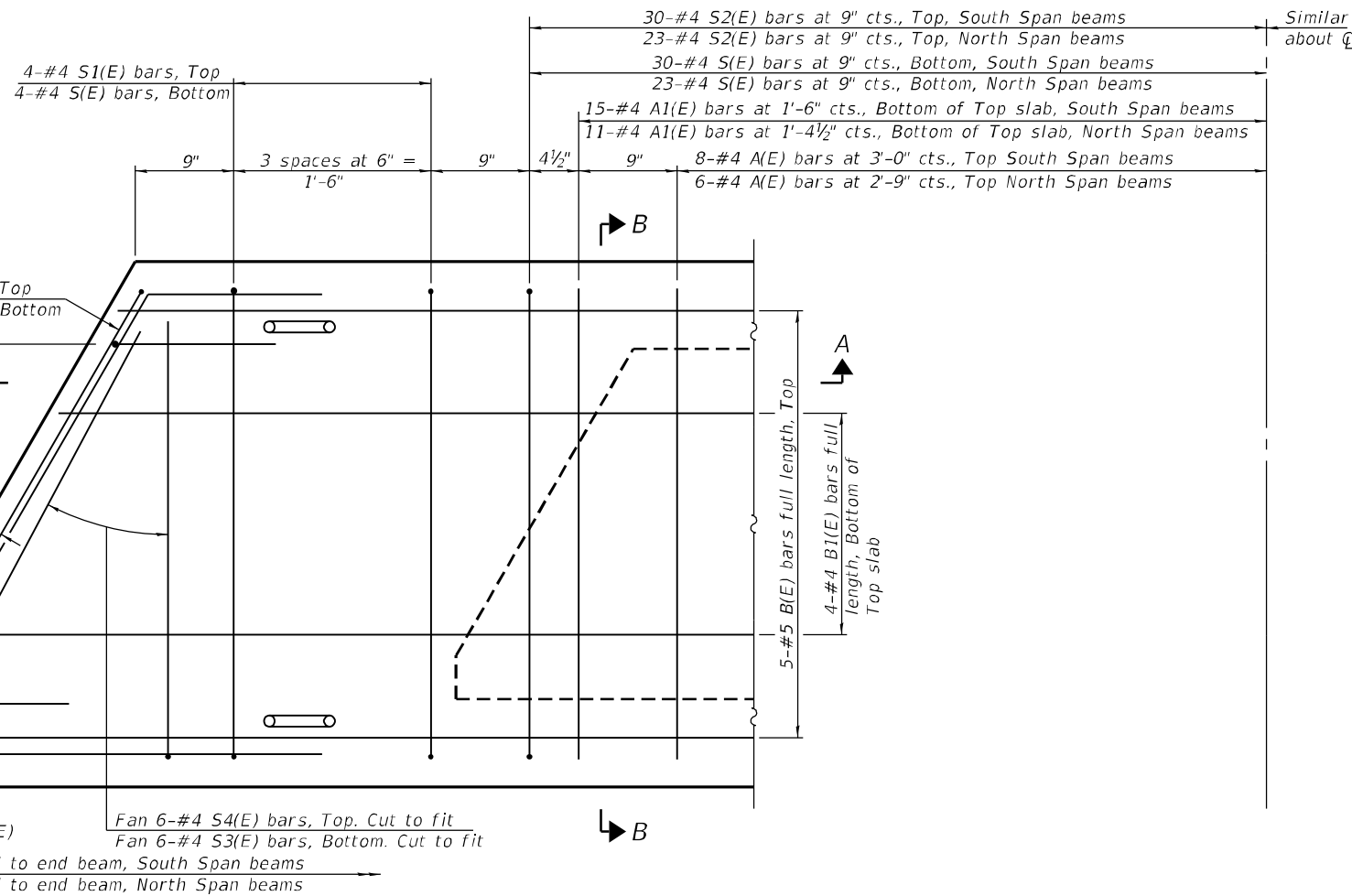
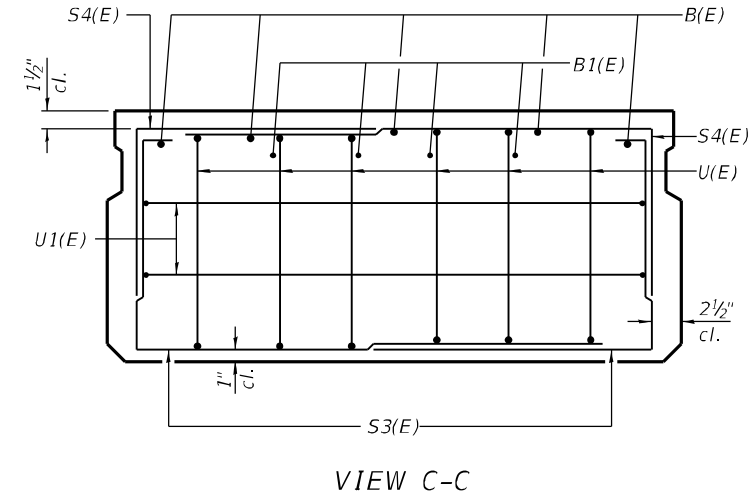
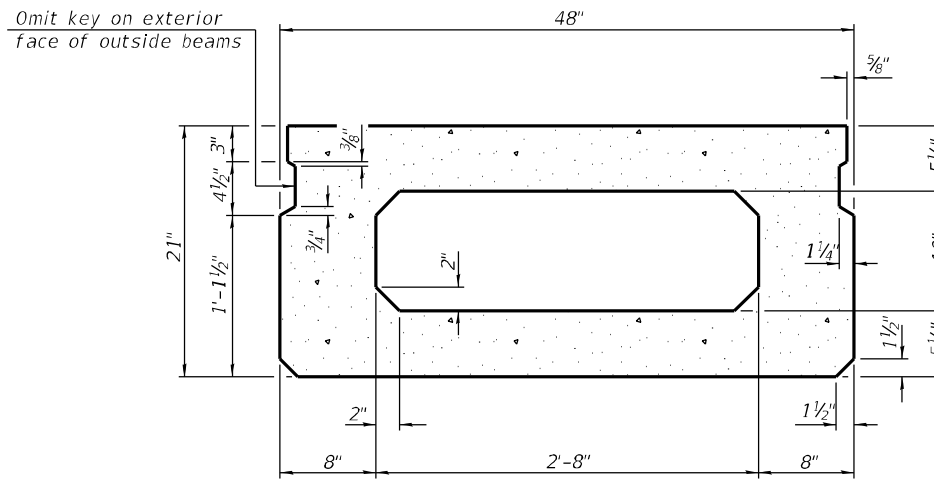
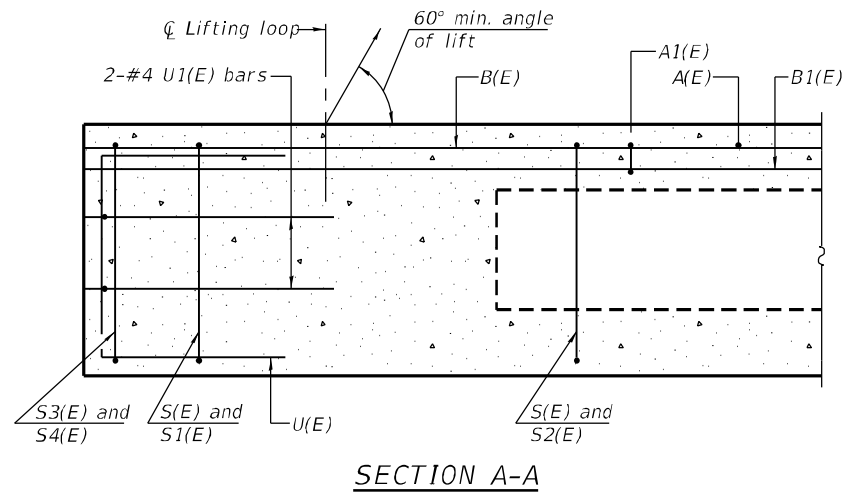
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CARROLL COUNTY HIGHWAY DEPARTMENT
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 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

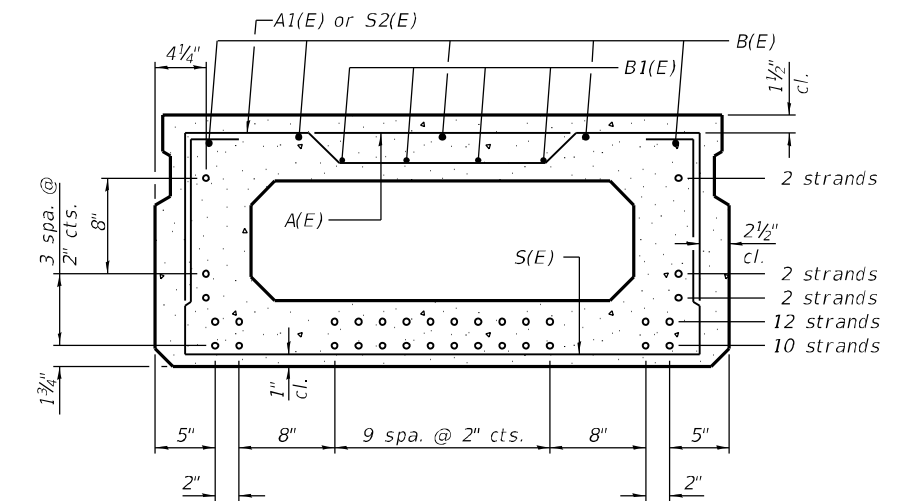
PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 8 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARRROLL	TOTAL SHEETS 197	SHEET NO. 116
WES* 2120237		CONTRACT NO. 85645		
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SECTION B-B
(Showing dimensions)

VIEW C-C



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE SOUTH SPAN BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	3'-7"	—
A1(E)	30	#4	3'-10"	—
B(E)	10	#5	25'-4"	—
B1(E)	8	#4	25'-0"	—
S(E)	68	#4	7'-5"	□
S1(E)	8	#4	5'-11"	□
S2(E)	60	#4	6'-2"	□
S3(E)	16	#4	5'-0"	□
S4(E)	16	#4	4'-3"	□
U(E)	12	#5	4'-0"	□
U1(E)	4	#4	8'-7"	□

BAR LIST
ONE NORTH SPAN BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	22	#4	3'-10"	—
B(E)	10	#5	20'-5"	—
B1(E)	8	#4	20'-2"	—
S(E)	54	#4	7'-5"	□
S1(E)	8	#4	5'-11"	□
S2(E)	46	#4	6'-2"	□
S3(E)	16	#4	5'-0"	□
S4(E)	16	#4	4'-3"	□
U(E)	12	#5	4'-0"	□
U1(E)	4	#4	8'-7"	□

Note:
See sheet 10 of 17 for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

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2-17-2017



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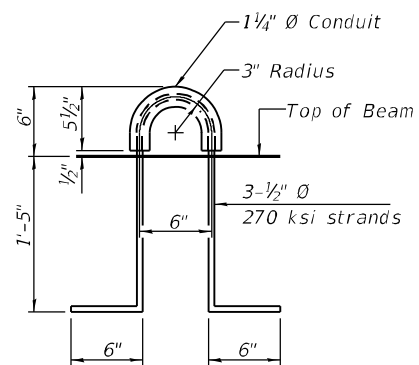
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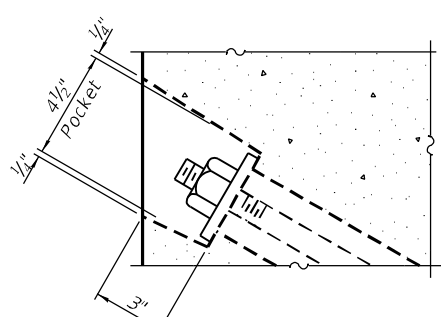
CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

21" x 48" PPC DECK BEAM
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 9 OF 17 SHEETS

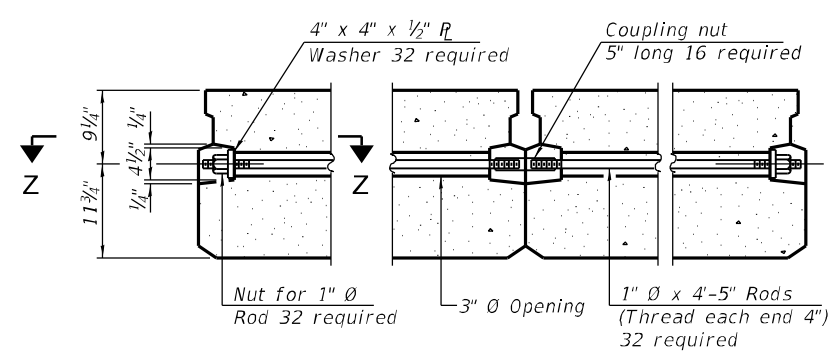
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WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



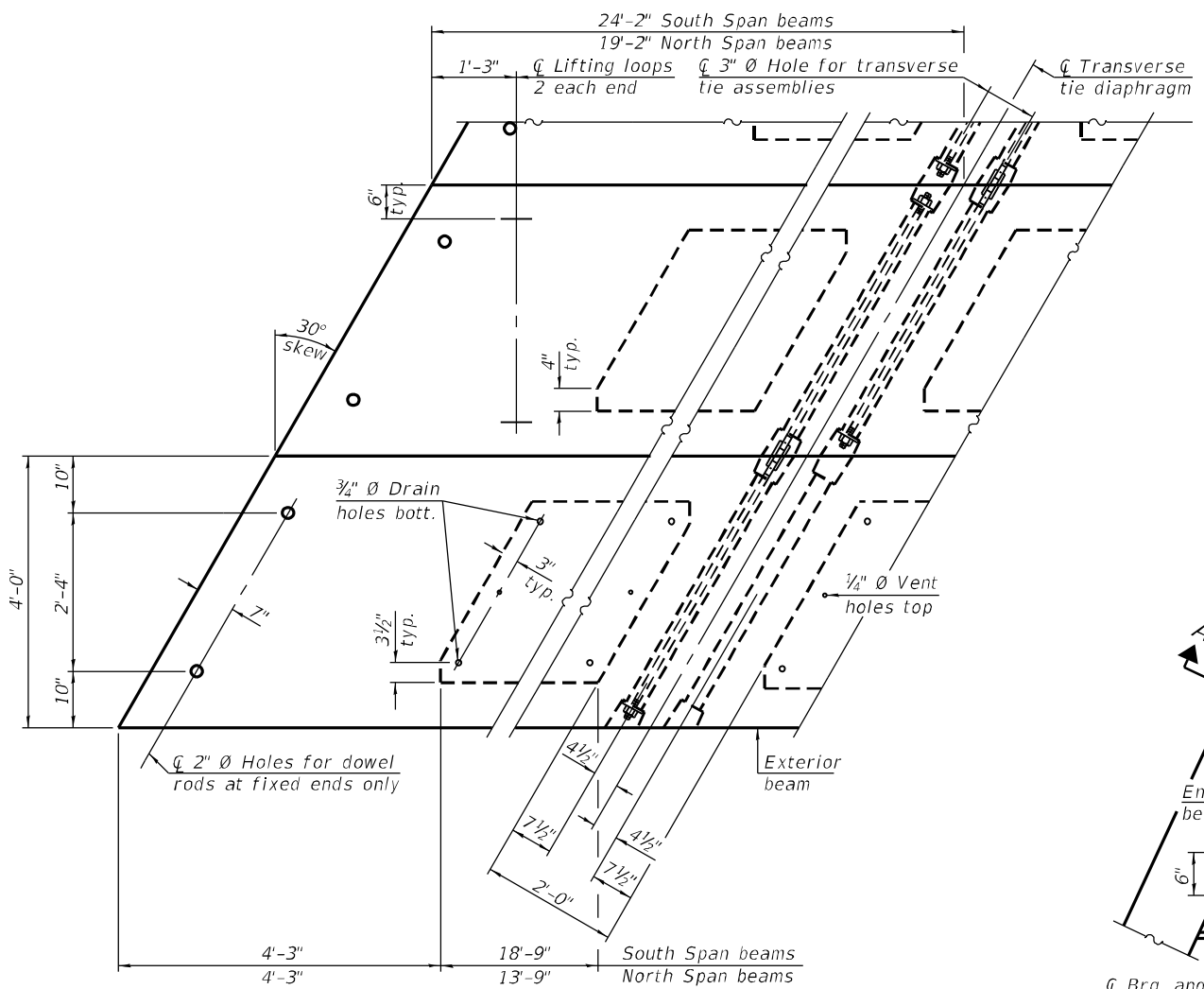
LIFTING LOOP DETAIL



SECTION Z-Z

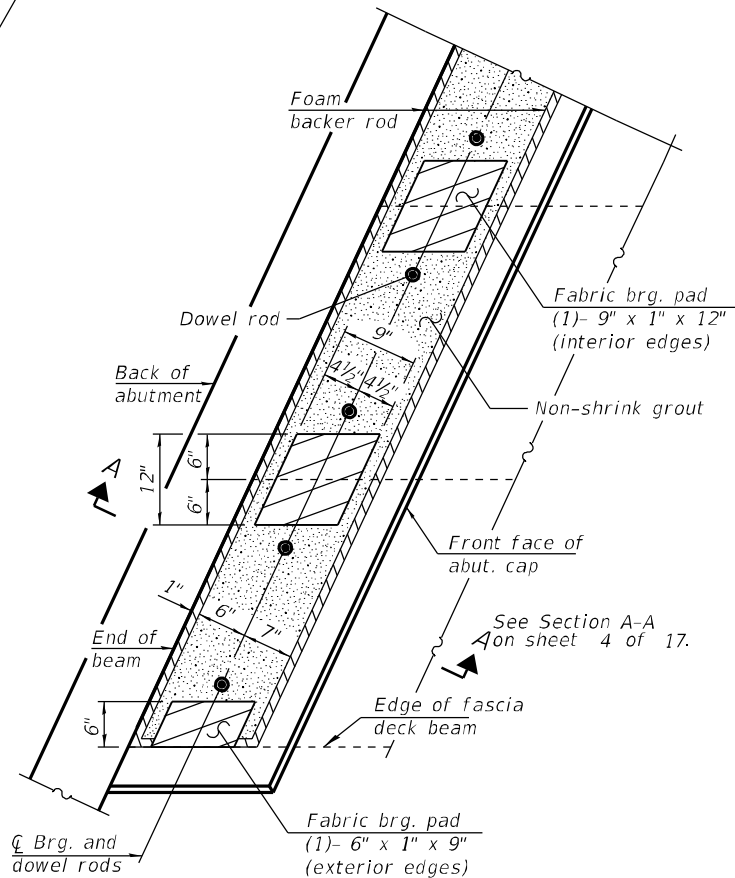


TYPICAL TRANSVERSE TIE ASSEMBLY



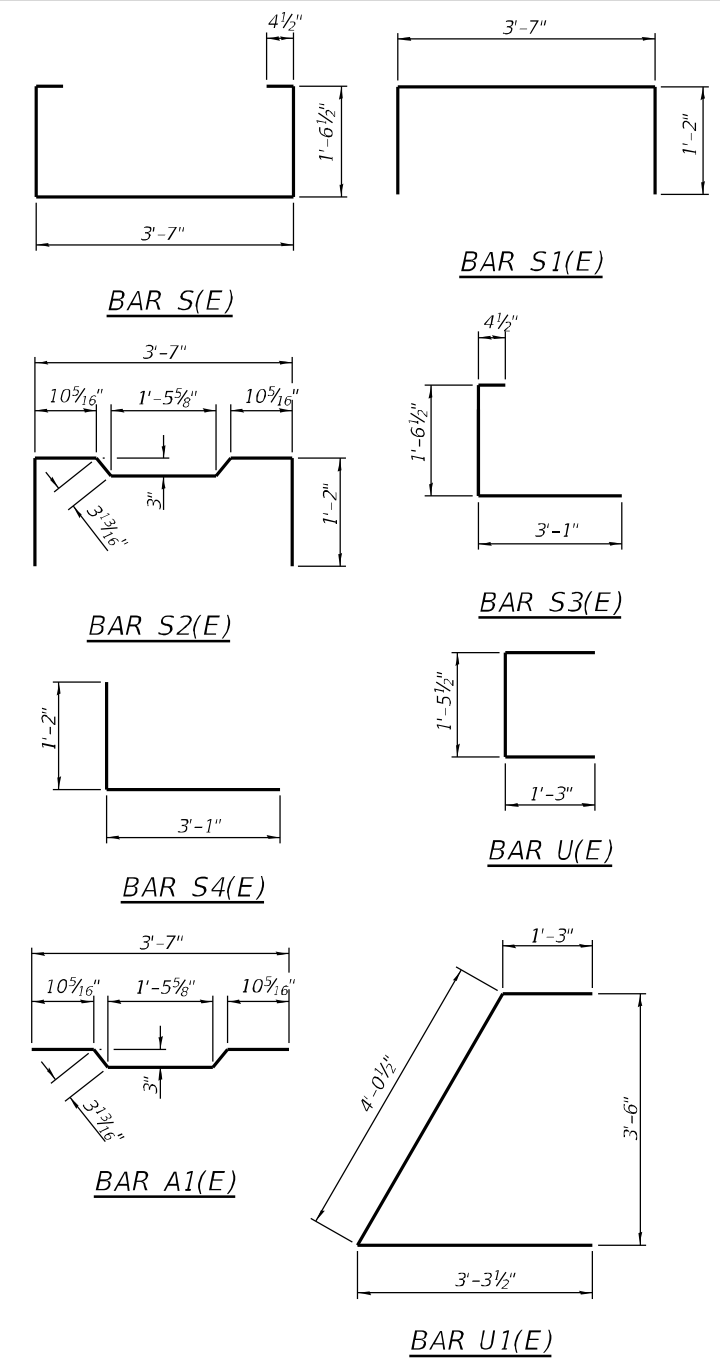
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



PLAN

Notes:
The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	3,120
---	---------	-------

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in.
The 1 inch diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2 inch diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

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2-17-2017



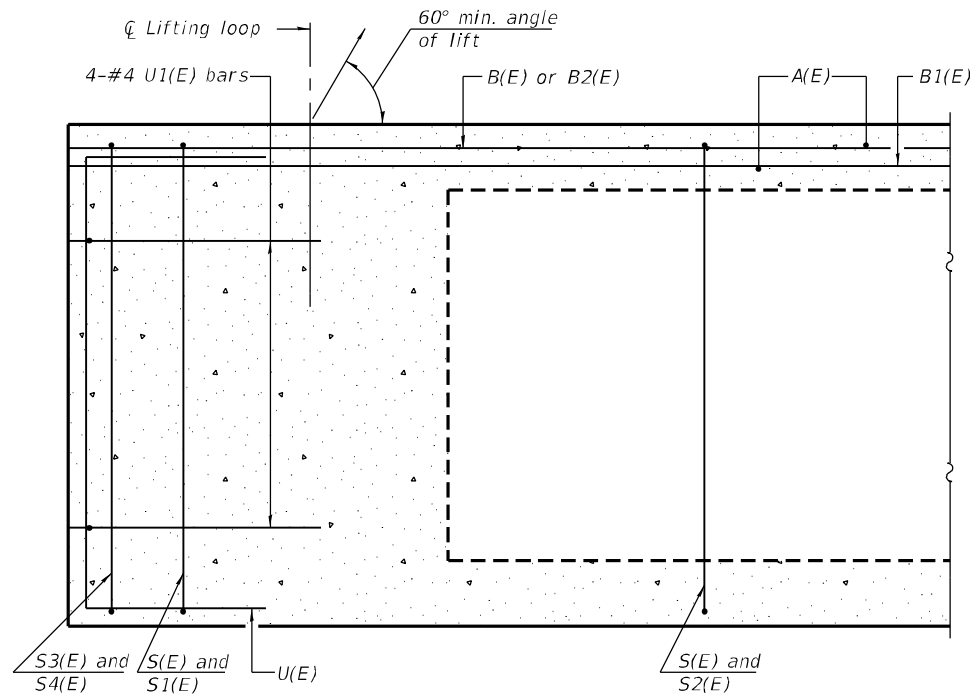
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CARROLL COUNTY HIGHWAY DEPARTMENT
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Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

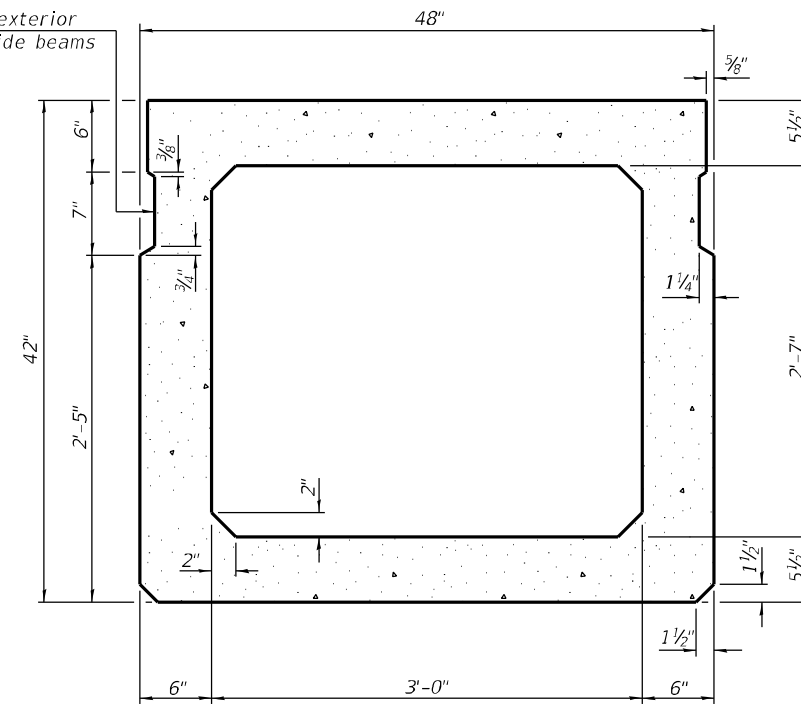
21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 10 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WES# 2120237			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

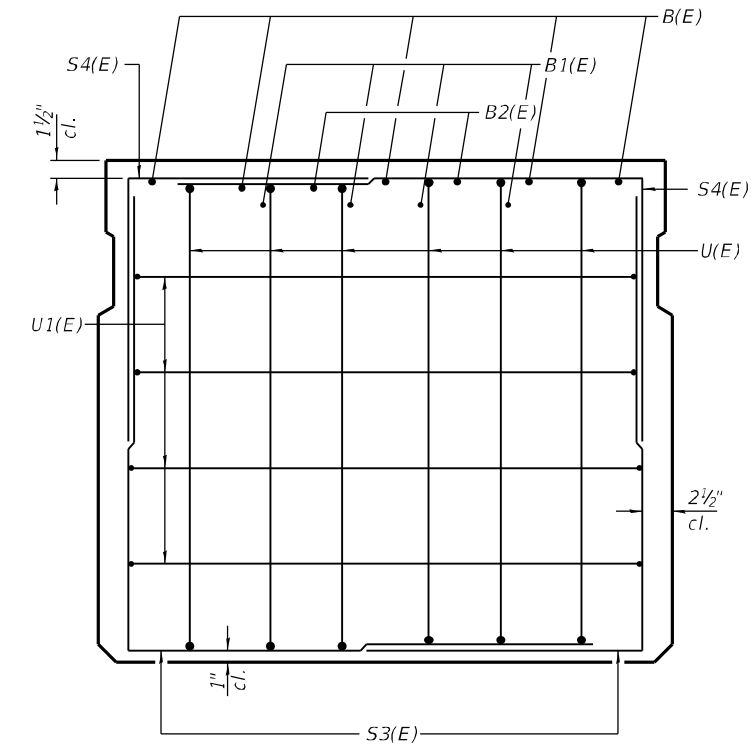


SECTION A-A

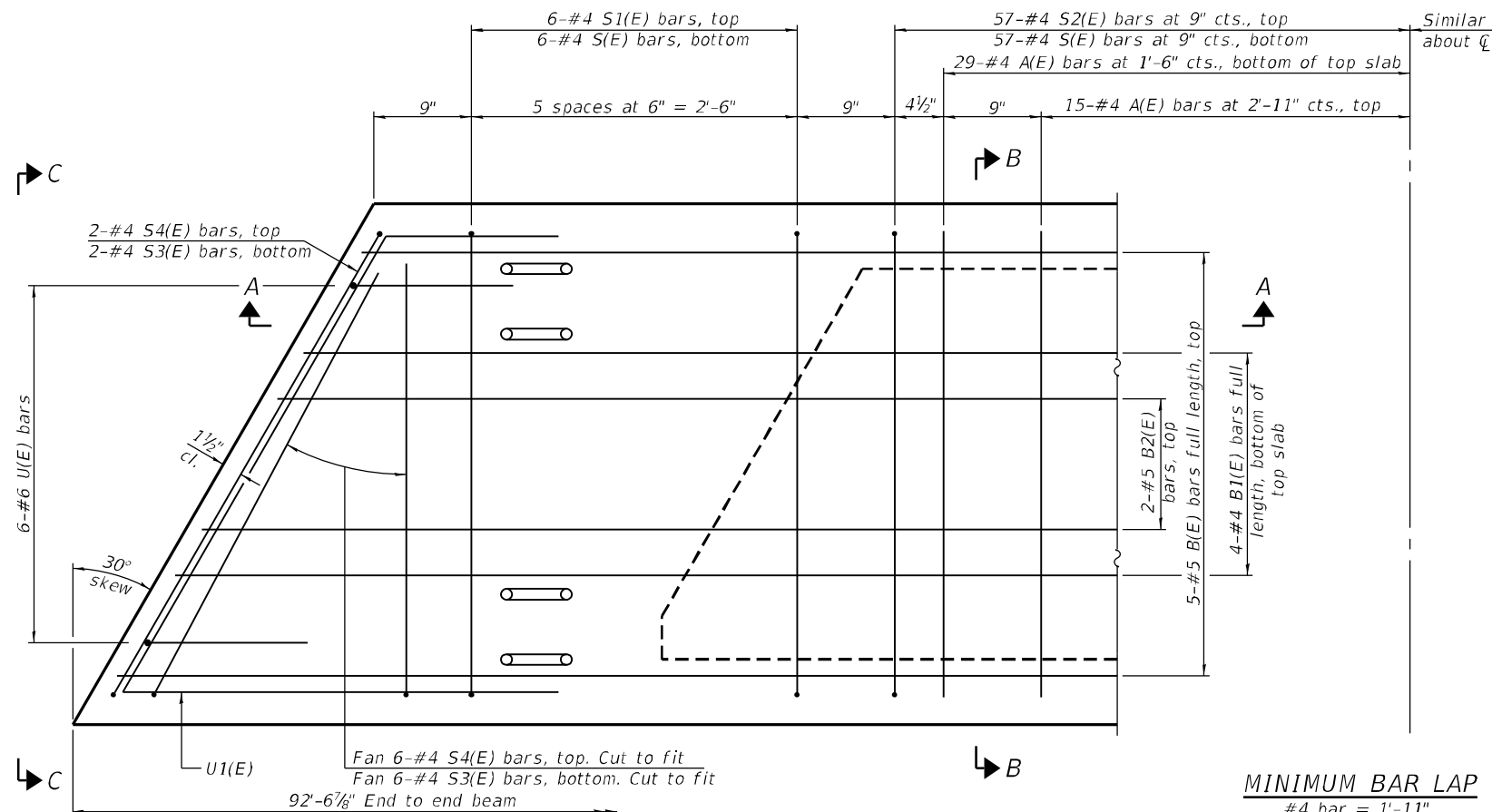
Omit key on exterior face of outside beams



SECTION B-B
(Showing dimensions)



VIEW C-C

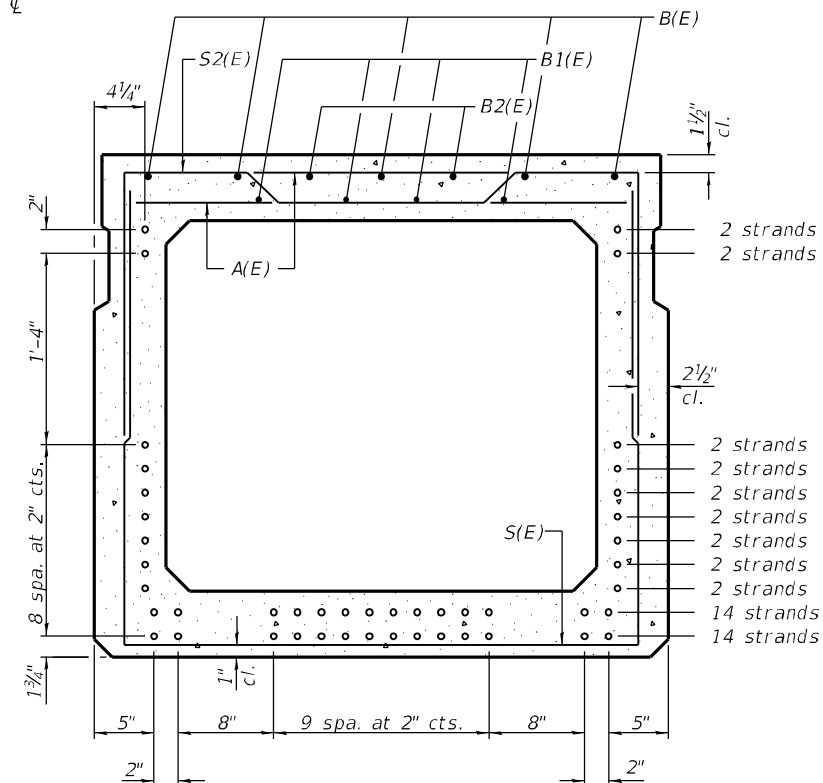


PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"



SECTION B-B

(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	88	#4	3'-7"	—
B(E)	15	#5	32'-6"	—
B1(E)	16	#4	24'-7"	—
B2(E)	2	#5	10'-0"	—
S(E)	126	#4	10'-2"	┌
S1(E)	12	#4	7'-5"	┌
S2(E)	114	#4	7'-8"	┌
S3(E)	16	#4	6'-5"	┌
S4(E)	16	#4	5'-0"	┌
U(E)	12	#6	5'-9"	┌
U1(E)	8	#4	8'-7"	┌

Note:
See sheet 12 of 17 for additional details and Bill of Material.

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PD-4248-L

2-17-2017



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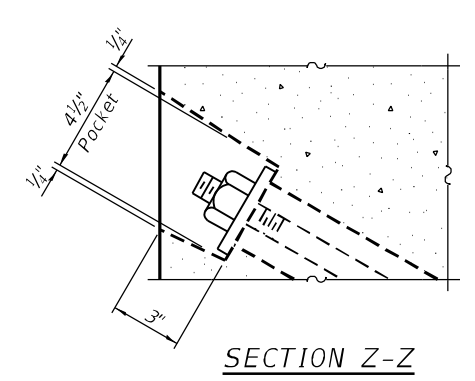
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CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

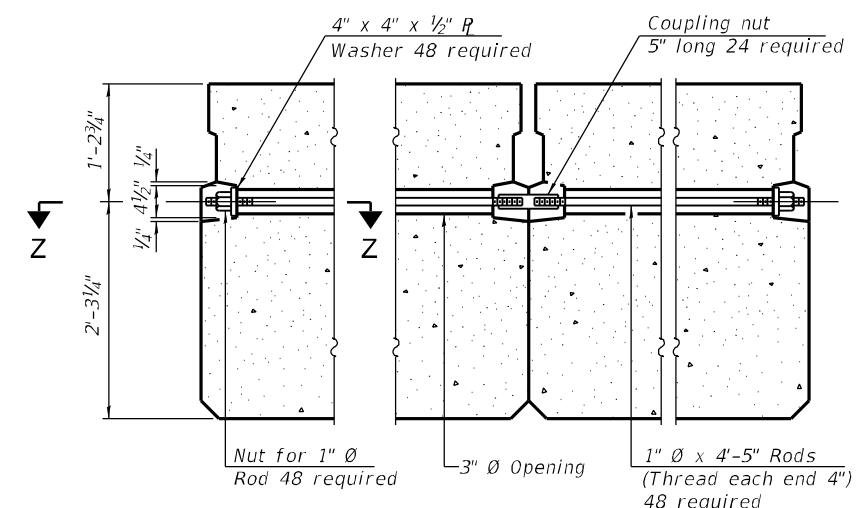
42" x 48" PPC DECK BEAM
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 11 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WES* 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				

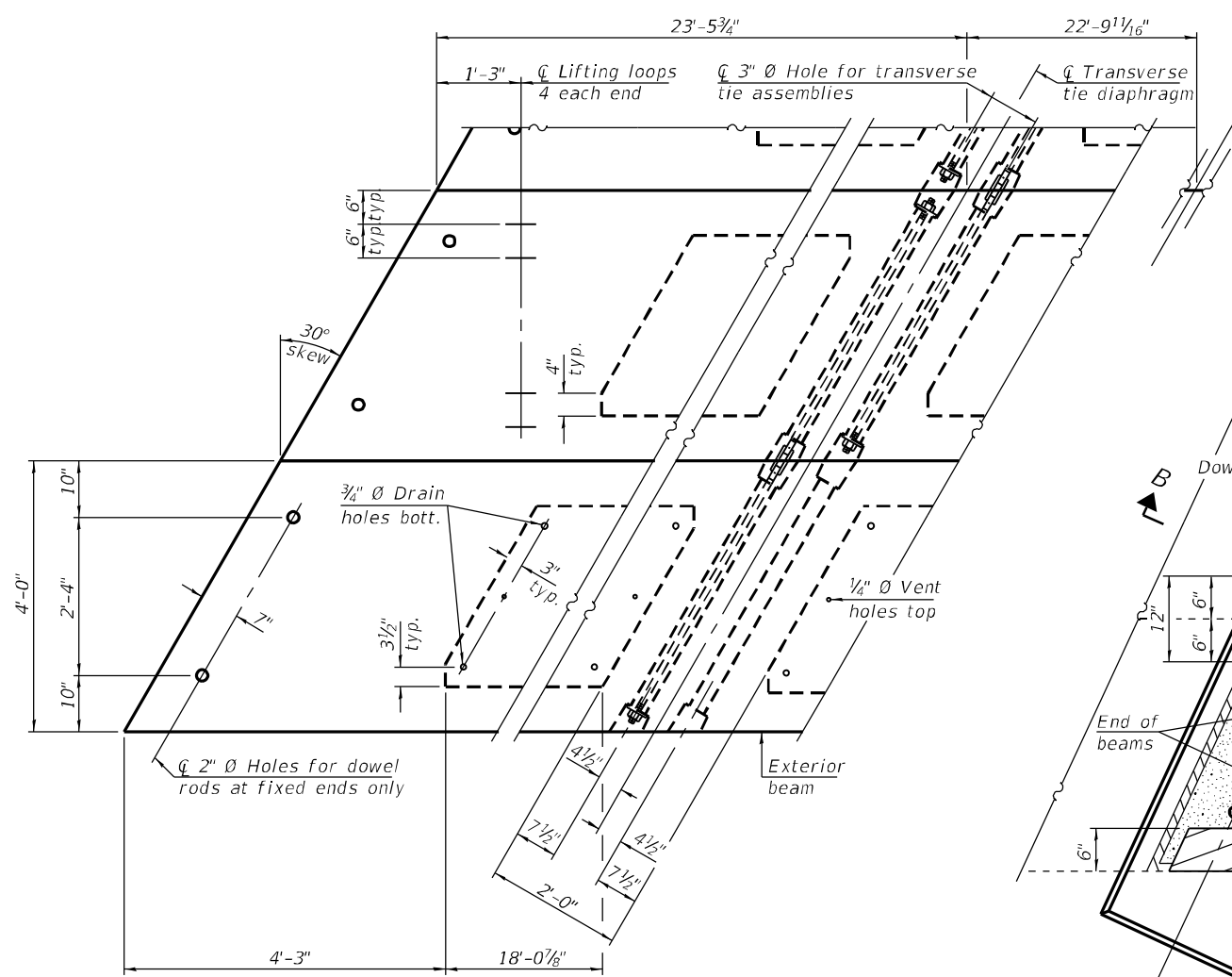
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SECTION Z-Z

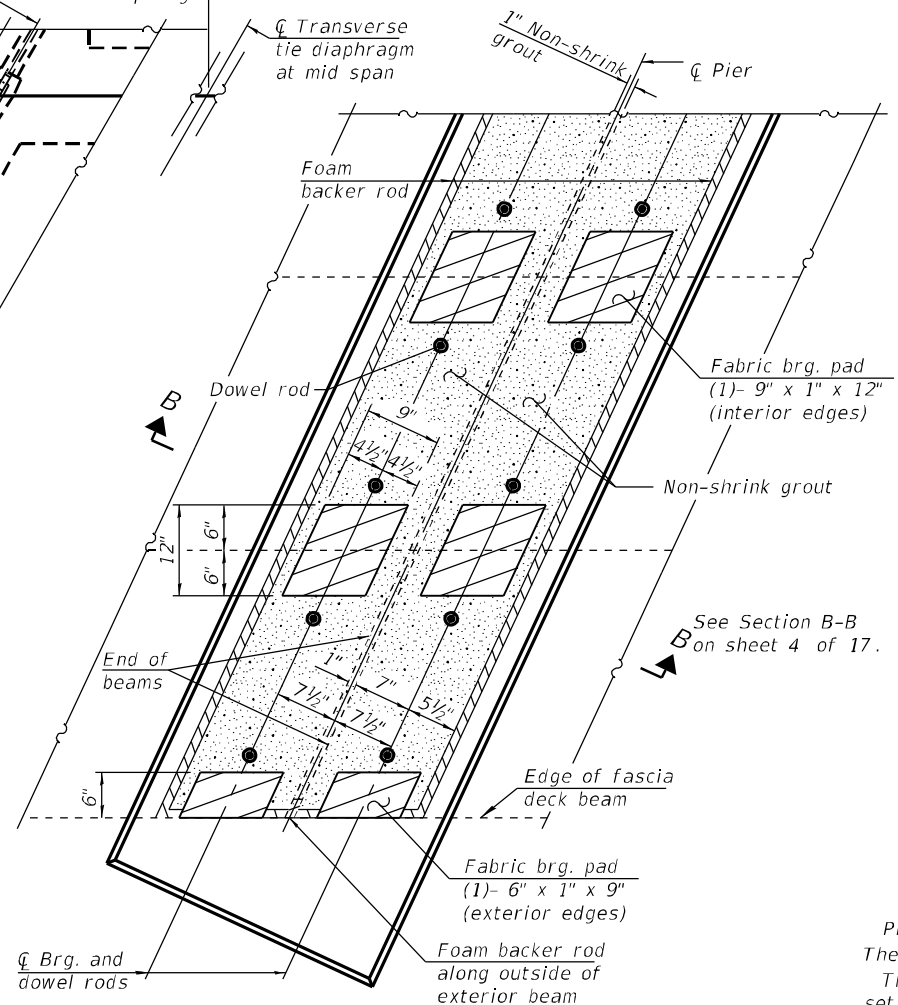


TYPICAL TRANSVERSE TIE ASSEMBLY



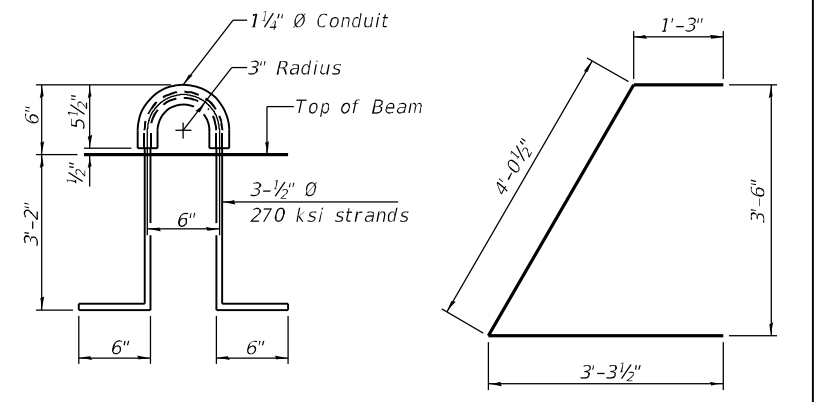
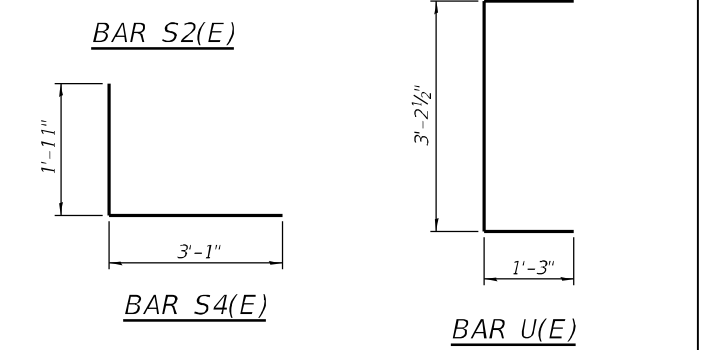
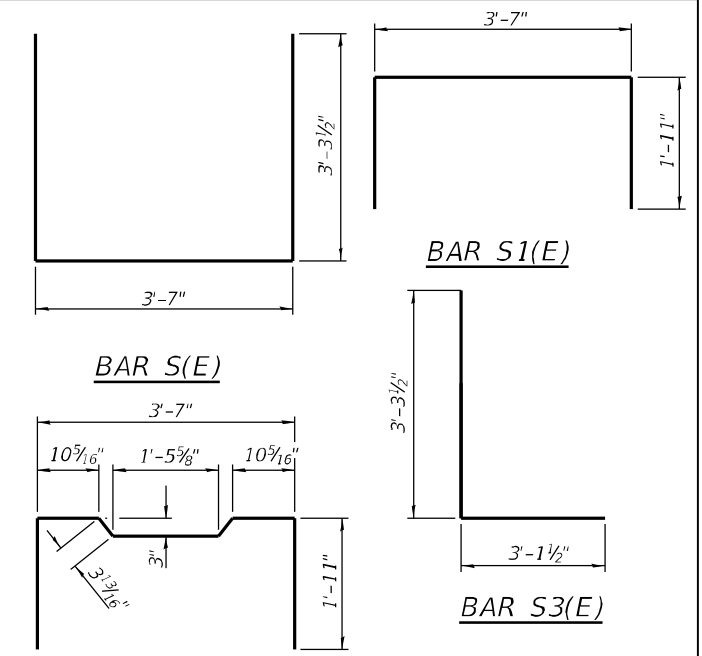
PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



PLAN

Notes:
 The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.



LIFTING LOOP DETAIL

BAR U1(E)

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	3,333
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NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in. The 1 inch rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2 inch lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 7000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 6000 psi.

PD-4248-LD

2-17-2017



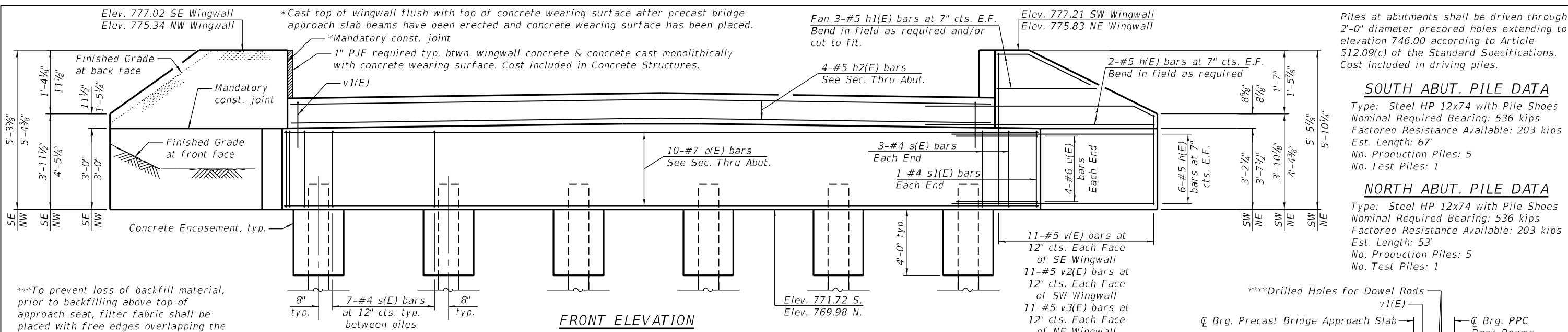
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CARROLL COUNTY HIGHWAY DEPARTMENT
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 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

42" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 12 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 120
WES# 2120237		CONTRACT NO. 85645		
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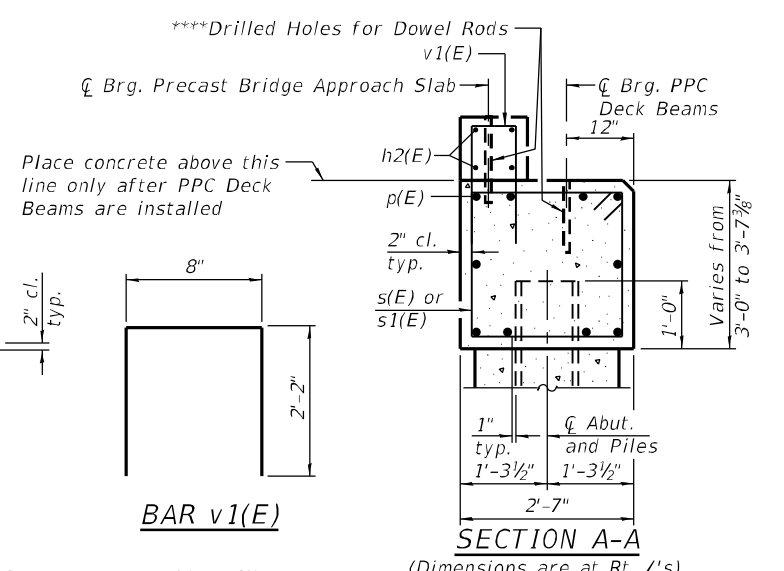
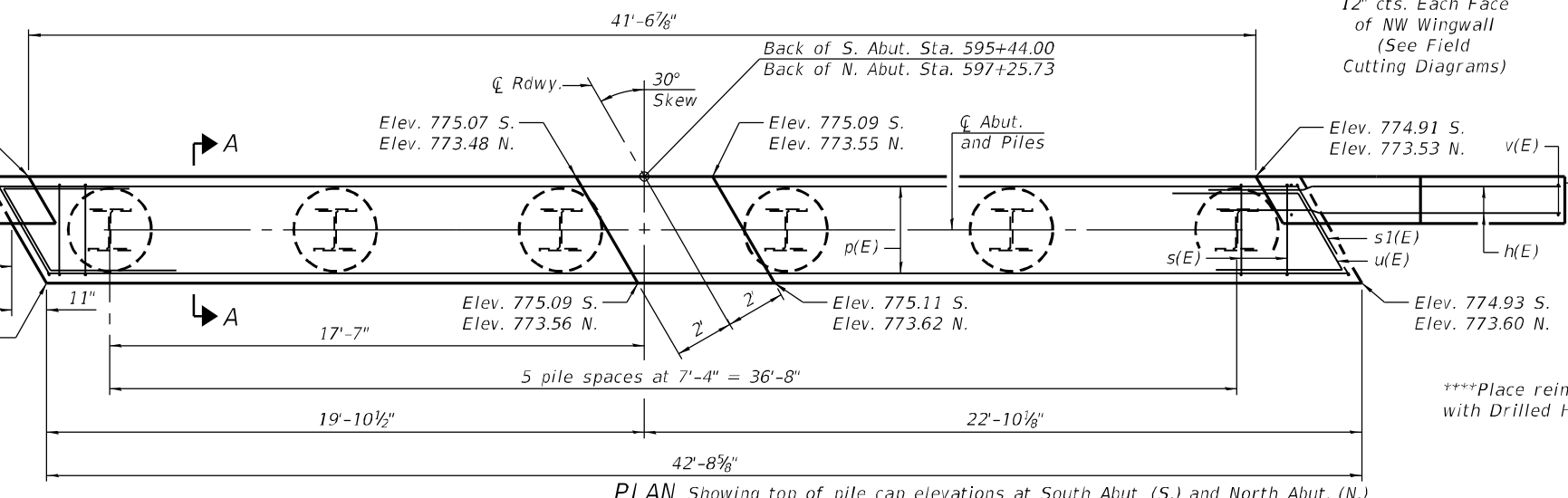


***To prevent loss of backfill material, prior to backfilling above top of approach seat, filter fabric shall be placed with free edges overlapping the P/JF at least 12 in. in all directions, except to pof filter fabric shall be flush with top of wingwall. Filter fabric shall be according to Section 282 with 8 oz/sq yd material allowed. Cost included in Concrete Structures.

Piles at abutments shall be driven through 2'-0" diameter precast holes extending to elevation 746.00 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

SOUTH ABUT. PILE DATA
 Type: Steel HP 12x74 with Pile Shoes
 Nominal Required Bearing: 536 kips
 Factored Resistance Available: 203 kips
 Est. Length: 67'
 No. Production Piles: 5
 No. Test Piles: 1

NORTH ABUT. PILE DATA
 Type: Steel HP 12x74 with Pile Shoes
 Nominal Required Bearing: 536 kips
 Factored Resistance Available: 203 kips
 Est. Length: 53'
 No. Production Piles: 5
 No. Test Piles: 1



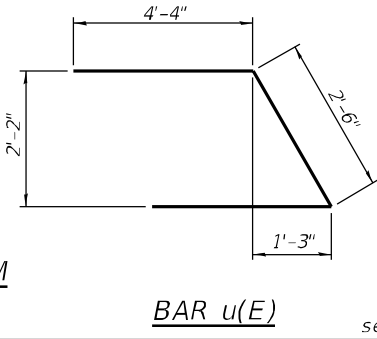
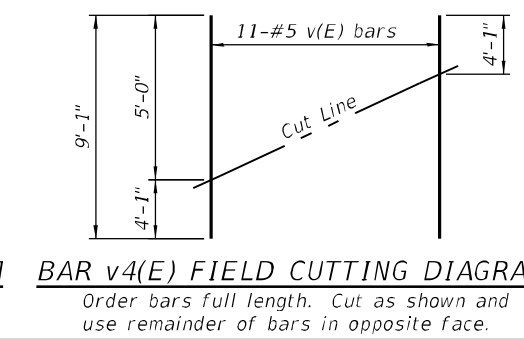
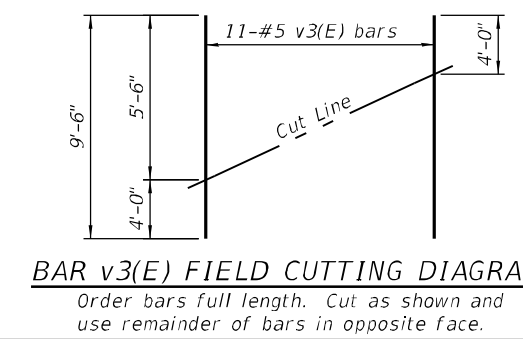
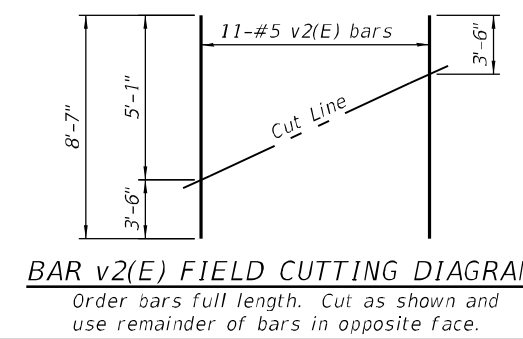
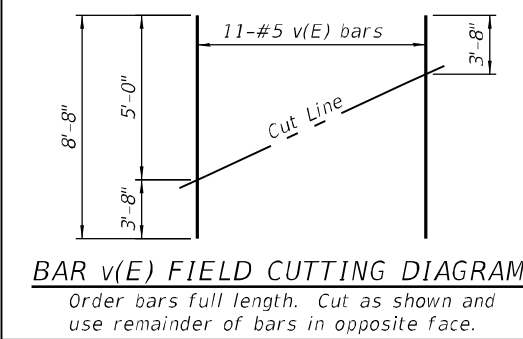
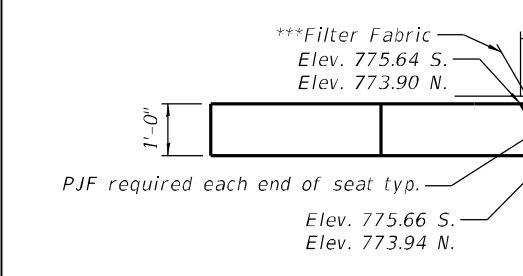
****Place reinforcement to avoid conflict with Drilled Holes for Dowel Rods

BILL OF MATERIAL FOR TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	64	#5	13'-10"	—
h1(E)	24	#5	10'-6"	—
h2(E)	4	#5	41'-8"	—
p(E)	20	#8	42'-4"	—
s(E)	82	#4	10'-3"	□
s1(E)	4	#4	10'-11"	□
u(E)	16	#6	11'-2"	∩
v(E)	11	#5	8'-8"	—
v1(E)	86	#5	5'-0"	□
v2(E)	11	#5	8'-7"	—
v3(E)	11	#5	9'-6"	—
v4(E)	11	#5	9'-1"	—
Concrete Structures		Cu. Yd.	37.7	
Reinforcement Bars, Epoxy Coated		Pound	5,340	
Furnishing Steel Piles HP12x74		Foot	720	
Driving Piles		Foot	720	
Test Pile Steel HP12x74		Each	4	
Pile Shoes		Each	12	
Concrete Encasement		Cu. Yd.	5.6	

For details of piles and Concrete Encasement, see sheet 15 of 17.

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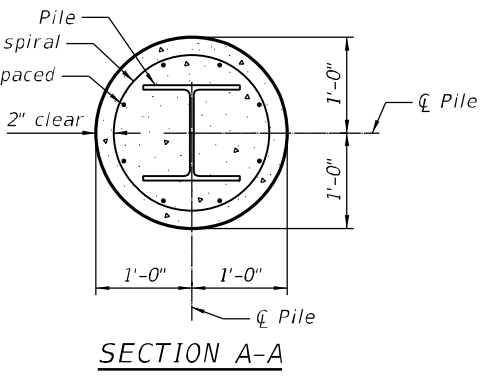
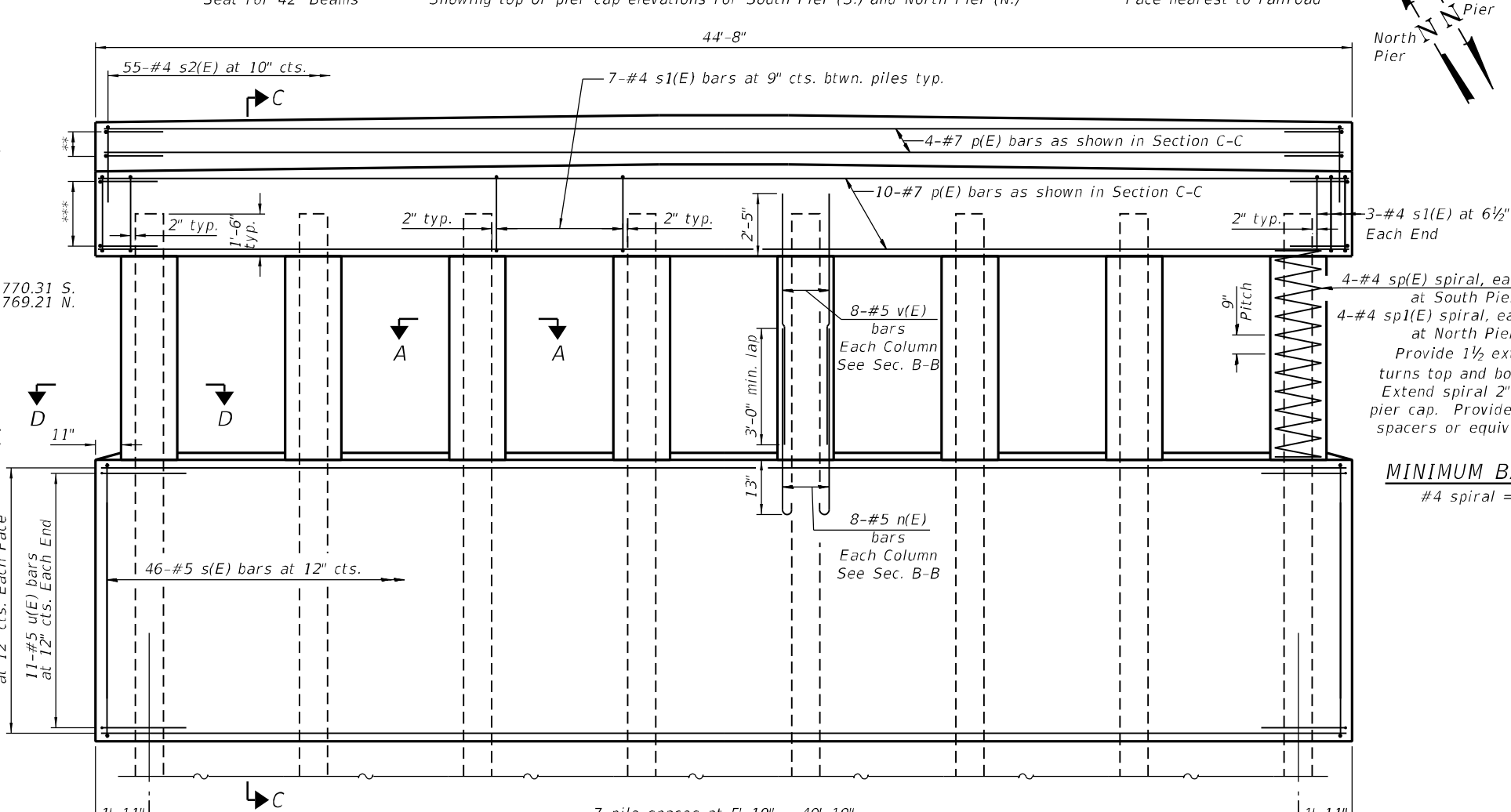
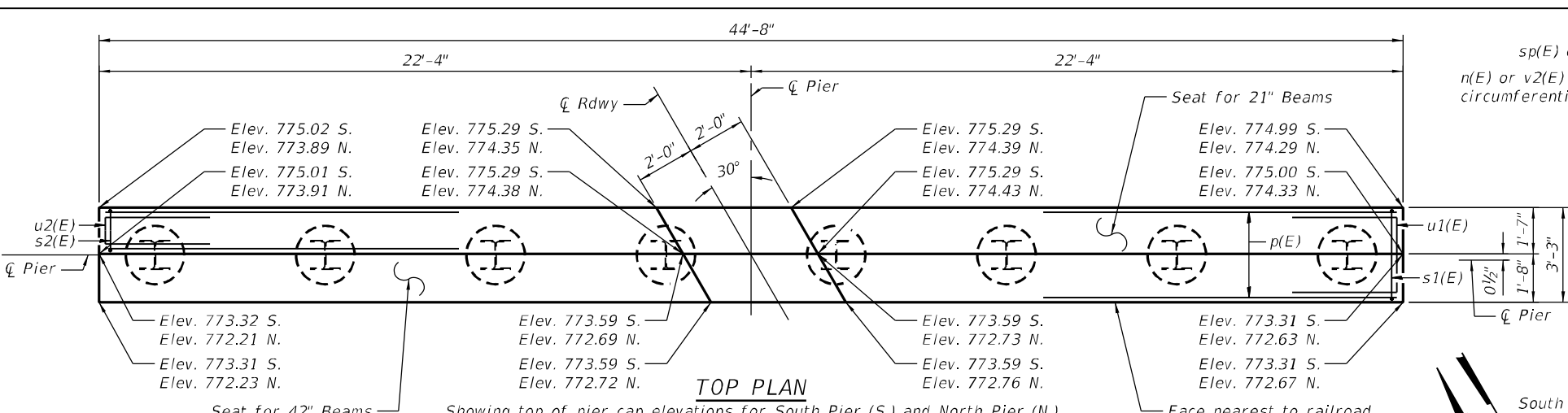
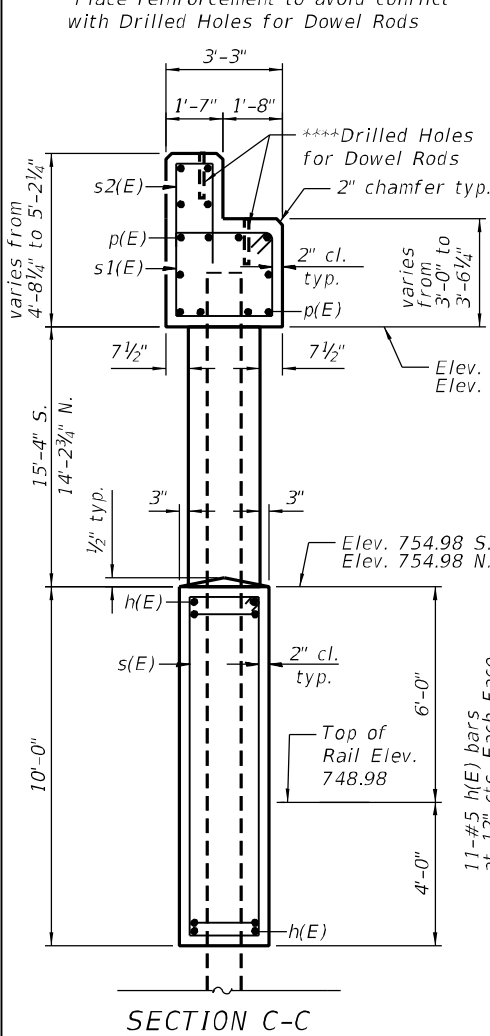
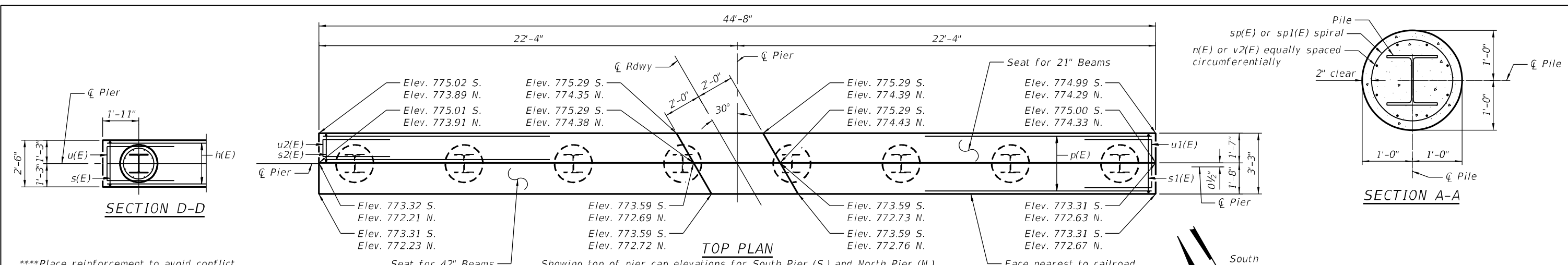
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 www.wendlergs.com ph: 815.288.2261
 Illinois Professional Design Firm No. 184-000848

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CHECKED - SAB	REVISSED -

CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

ABUTMENTS
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 13 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	121
WES* 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL FOR TWO PIERS

Bar	No.	Size	Length	Shape
h(E)	44	#5	44'-4"	—
n(E)	128	#5	6'-1"	U
p(E)	28	#8	44'-4"	—
s(E)	92	#5	24'-3"	□
s1(E)	110	#4	11'-11"	□
s2(E)	110	#4	8'-9"	U
sp(E)	32	#4	33'-1"	W
sp1(E)	32	#4	31'-3"	W
u(E)	44	#5	9'-3"	U
u1(E)	16	#6	11'-6"	U
u2(E)	8	#6	9'-10"	U
v(E)	128	#5	16'-4"	—
Concrete Structures	Cu. Yd.		154.1	
Reinforcement Bars, Epoxy Coated	Pound		14,380	
Furnishing Steel Piles HP12x74	Foot		968	
Driving Piles	Foot		968	
Test Pile Steel HP12x74	Each		2	
Pile Shoes	Each		16	

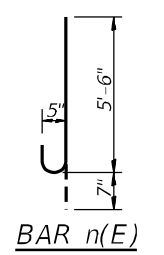
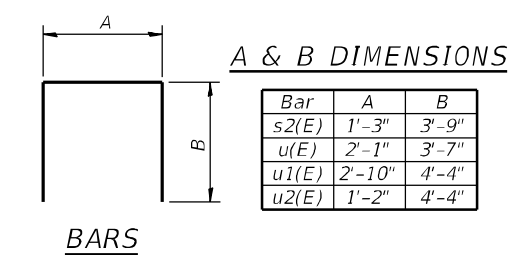
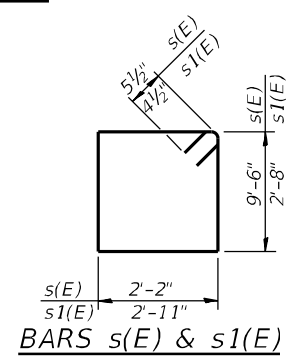
SOUTH PIER PILE DATA

Type: Steel HP 12 x 74 with Pile Shoes
 Nominal Required Bearing: 536 kips
 Factored Resistance Available: 295 kips
 Est. Length: 66'
 No. Production Piles: 7
 No. Test Piles: 1

NORTH PIER PILE DATA

Type: Steel HP 12 x 74 with Pile Shoes
 Nominal Required Bearing: 536 kips
 Factored Resistance Available: 295 kips
 Est. Length: 55'
 No. Production Piles: 7
 No. Test Piles: 1

Notes:
 For details of piles, see sheet 15 of 17.



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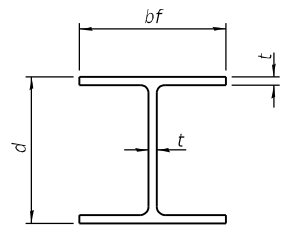
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 Illinois Professional Design Firm No. 184-000848

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CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

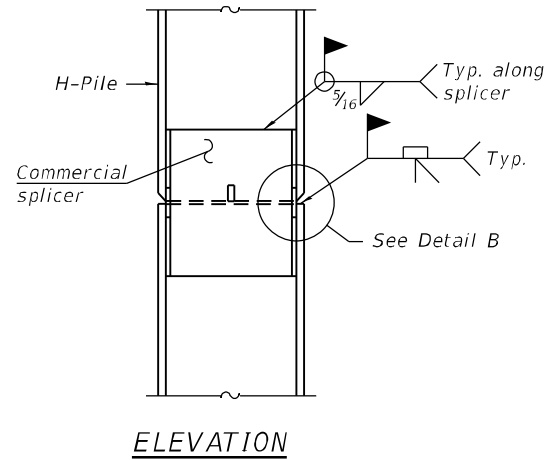
PIERS
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 14 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	122
WES* 2120237			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

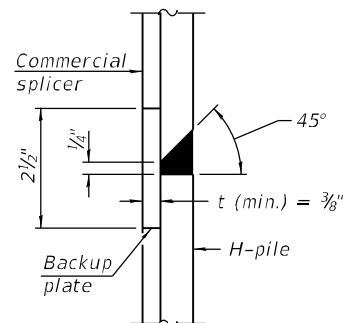


STEEL PILE TABLE

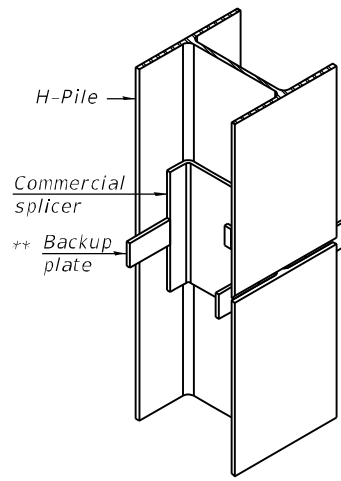
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

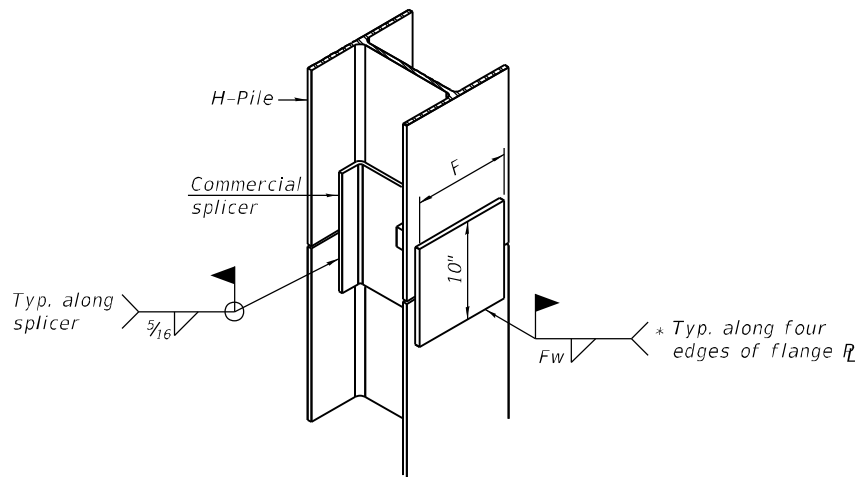


DETAIL "B"



ISOMETRIC VIEW

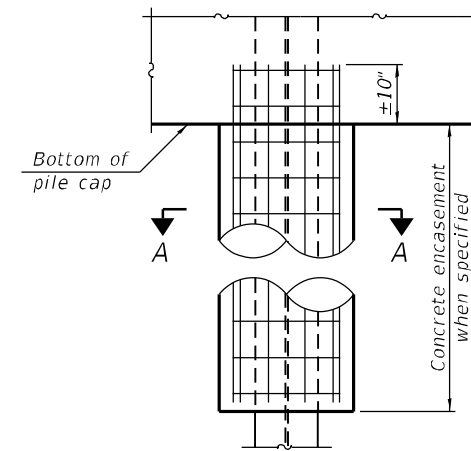
WELDED COMMERCIAL SPLICE



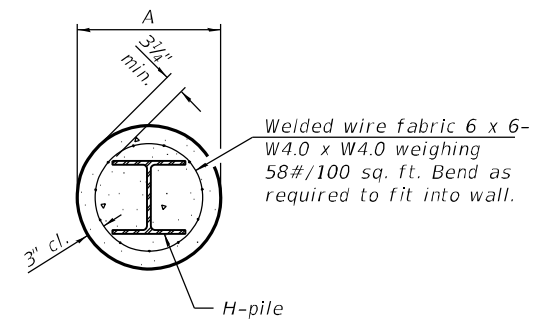
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- + Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- +++ Weld size per pile shoe manufacturer (5/16" min.).

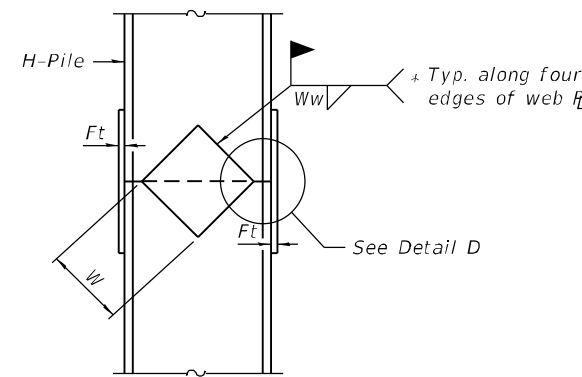


ELEVATION

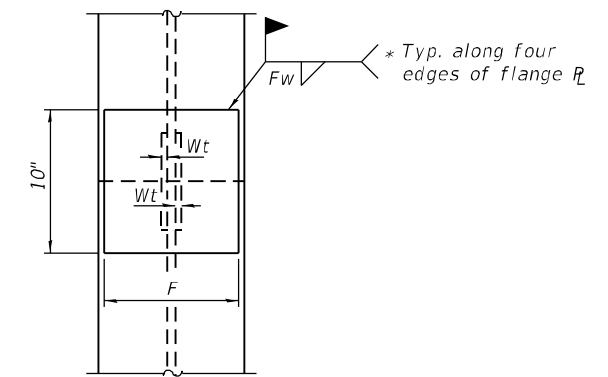


SECTION A-A

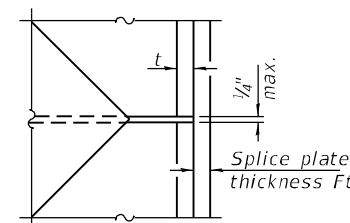
INDIVIDUAL PILE CONCRETE ENCASUREMENT
 (Forms for encasement may be omitted when soil conditions permit).



ELEVATION



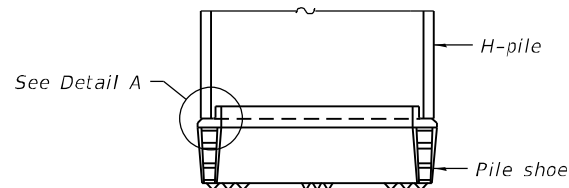
END VIEW



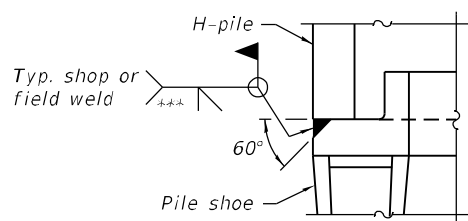
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
 The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 2-17-2017



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CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
 Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
 Latitude 41°58' Longitude 89°49' near Millidgeville, Illinois

HP PILE DETAILS
STRUCTURE NO. 008-4229
 BRIDGE SHEET NO. 15 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 123
WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				

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Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 12/4/13

ROUTE Ideal Road DESCRIPTION P92-006-14 Reconstruction of IL 40, Ideal Road LOGGED BY W. Garza

SECTION MFT 03-00083-00-BR LOCATION Wysox Twp. - 16W, SEC. , TWP. 23N, RNG. 6E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	BLOW	UNCS	MOIST	Surface Water Elev. ft	Stream Bed Elev. ft	GROUNDWATER ELEV.: First Encounter ft Upon Completion ft After Hrs.	DEPTH	BLOW	UNCS	MOIST
B-1 595 + 66 593+33 2.00ft Rt Prop CL 757.9779.4											
					DRY brown SILTY CLAY LOAM		MEDIUM gray SILTY LOAM (continued)		4	0.7	19
									5	B	
	777.40										
		4			VERY STIFF light brown SILTY LOAM		VERY STIFF gray SILT CLAY TILL		2		
		4	3.0	21					6	2.1	21
	778.90	5	P						7	B	
		2			MEDIUM tan SILTY LOAM		STIFF gray SILTY LOAM TILL		2		
		2	0.6	21					4	1.3	20
	773.40	3	P						5	B	
		3			MEDIUM tan SILTY LOAM		VERY SOFT gray LOAM		0		
		5	0.6	22					1	0.0	21
	770.90	5	B						3	P	
		2			SOFT tan SILTY LOAM		VERY SOFT gray SANDY LOAM		1		
		2	0.4	25					3	0.2	16
		3	P						4	P	
	767.90										
		1			SOFT tan SILT		VERY SOFT gray SANDY LOAM		1		
		2	0.4	22					2	0.0	15
		4	B						4	P	
	765.40										
		1			STIFF tan SILTY LOAM		SOFT gray SANDY LOAM with GRAVEL		2		
		3	1.0	19					3	0.4	14
		5	P						6	P	
	762.90										
		1			STIFF tan SILTY CLAY		SOFT gray SANDY LOAM		1		
		4	1.2	24					1	0.3	19
		5	B						3	P	
	760.90										
					MEDIUM gray SILTY LOAM				14		
		2									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 12/4/13

ROUTE Ideal Road DESCRIPTION P92-006-14 Reconstruction of IL 40, Ideal Road LOGGED BY W. Garza

SECTION MFT 03-00083-00-BR LOCATION Wysox Twp. - 16W, SEC. , TWP. 23N, RNG. 6E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPTH	BLOW	UNCS	MOIST	Surface Water Elev. ft	Stream Bed Elev. ft	GROUNDWATER ELEV.: First Encounter ft Upon Completion ft After Hrs.	DEPTH	BLOW	UNCS	MOIST
B-1 595 + 66 593+33 2.00ft Rt Prop CL 757.9779.4											
					MEDIUM tan weathered LIMESTONE (continued)				16		
									7		
	738.40										
					VERY LOOSE tan weathered LIMESTONE with CLAY lens				0		
									2		
	735.90								2		
		7			MEDIUM tan weathered LIMESTONE				7		
		6							6		
	733.40								10		
		5			LOOSE tan weathered LIMESTONE				5		18
		4							4		
	730.90								4		
		36			VERY DENSE tan weathered LIMESTONE				36		
		100							100		
					Auger Refusal @ 51.5'						
									706.40	727.90	
					End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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DRAWN - LAN, DJV
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REVISED -
REVISED -
REVISED -

CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Milledgeville, Illinois

BORING LOGS 1 OF 2
STRUCTURE NO. 008-4229

BRIDGE SHEET NO. 16 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	124
WES* 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				



**Illinois Department
of Transportation**
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 12/17/12

ROUTE Ideal Road DESCRIPTION P92-006-14 N. Abutment Relocated Ideal Road at B.N.R.R. LOGGED BY W. Garza

SECTION MFT 03-00083-00-BR LOCATION Wysox Twp. - 17SE, SEC., TWP. 23N, RNG. 6E

COUNTY Carroll DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. Station				DEPTH (ft)	BLOW COUNT (blows/6")	UNITS (tsf)	MOISTURE (%)	Surface Water Elev. ft				DEPT BLOW COUNT											
BORING NO. <u>B-2</u> Station <u>597 + 22</u> <u>594+89</u> Offset <u>2.00ft Lt Prop CL</u> Ground Surface Elev. <u>757.2</u> ft								Groundwater Elev.: First Encounter <u>727.2</u> ft Upon Completion <u> </u> ft After <u> </u> Hrs. <u> </u> ft															
MEDIUM brown SILTY CLAY LOAM						0.5 P	34											MEDIUM gray SILTY CLAY					
HARD brown SILTY CLAY LOAM																							
MEDIUM tan SILTY LOAM																							
MEDIUM tan SILTY LOAM																							
MEDIUM tan SILTY LOAM																							
VERY SOFT tan SILT																							
SOFT tan SILT																							
STIFF tan SILTY LOAM																							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



**Illinois Department
of Transportation**
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Date 12/17/12

ROUTE Ideal Road DESCRIPTION P92-006-14 N. Abutment Relocated Ideal Road at B.N.R.R. LOGGED BY W. Garza

SECTION MFT 03-00083-00-BR LOCATION Wysox Twp. - 17SE, SEC., TWP. 23N, RNG. 6E

COUNTY Carroll CORING METHOD

STRUCT. NO. Station		CORING BARREL TYPE & SIZE	DEPTH (ft)	CORE RECOVERY (%)	R-Q (%)	CORE TIME (min/ft)	STRENGTH (tsf)
BORING NO. <u>B-2</u> Station <u>597 + 22</u> <u>594+89</u> Offset <u>2.00ft Lt Prop CL</u> Ground Surface Elev. <u>757.2</u> ft		Core Diameter <u>2</u> in Top of Rock Elev. <u>722.70</u> ft Begin Core Elev. <u>719.20</u> ft					
Dolomite: tan-buff, chalky with crystalline structures sometimes visible, minor pitting and fracturing. t.s.f.: 716.6 to 716.2							
Dolomite: as above, with minor laminations. t.s.f.: 711.5 to 711.1							
End of Boring							

Color pictures of the cores
Cores will be stored for examination until

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

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6/17/2019



WENDLER ENGINEERING SERVICES, INC.
698 Timber Creek Road, Dixon, Illinois 61021
www.wendlergs.com ph: 815.288.2261
Illinois Professional Design Firm No. 184-000848

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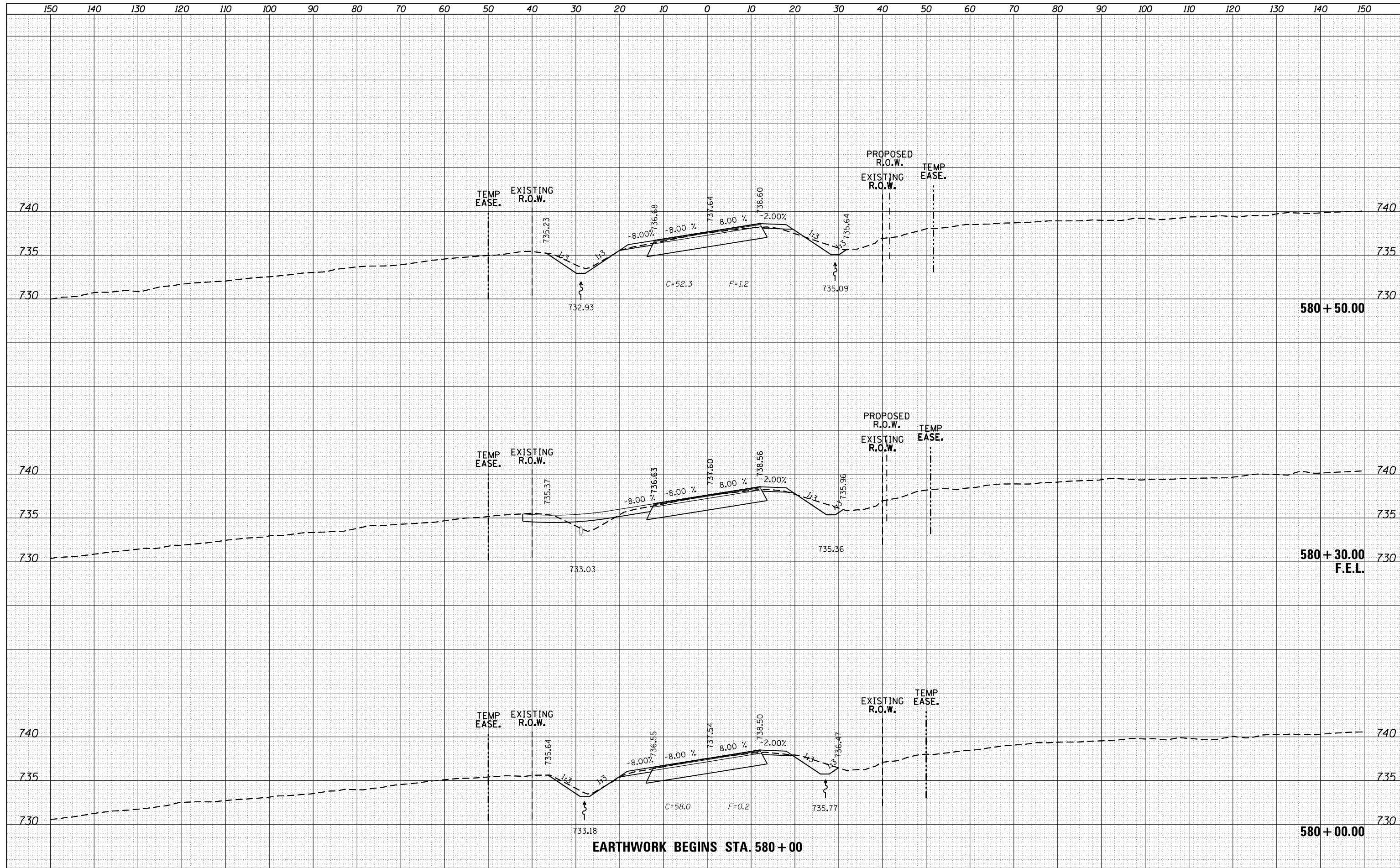
CARROLL COUNTY HIGHWAY DEPARTMENT
IDEAL ROAD OVER BNSF RAILWAY
Milepost 125.24, DOT# 069873R, Subdivision: Aurora, Illinois
Latitude 41°58' Longitude 89°49' near Millfedgville, Illinois

BORING LOGS 2 OF 2
STRUCTURE NO. 008-4229
BRIDGE SHEET NO. 17 OF 17 SHEETS

F.A.S. RTE. 1084	SECTION 03-00083-00-BR	COUNTY CARROLL	TOTAL SHEETS 197	SHEET NO. 125
WES# 2120237		CONTRACT NO. 85645		
ILLINOIS FED. AID PROJECT				

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EARTHWORK BEGINS STA. 580+00

FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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	PLOT DATE = 11/12/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

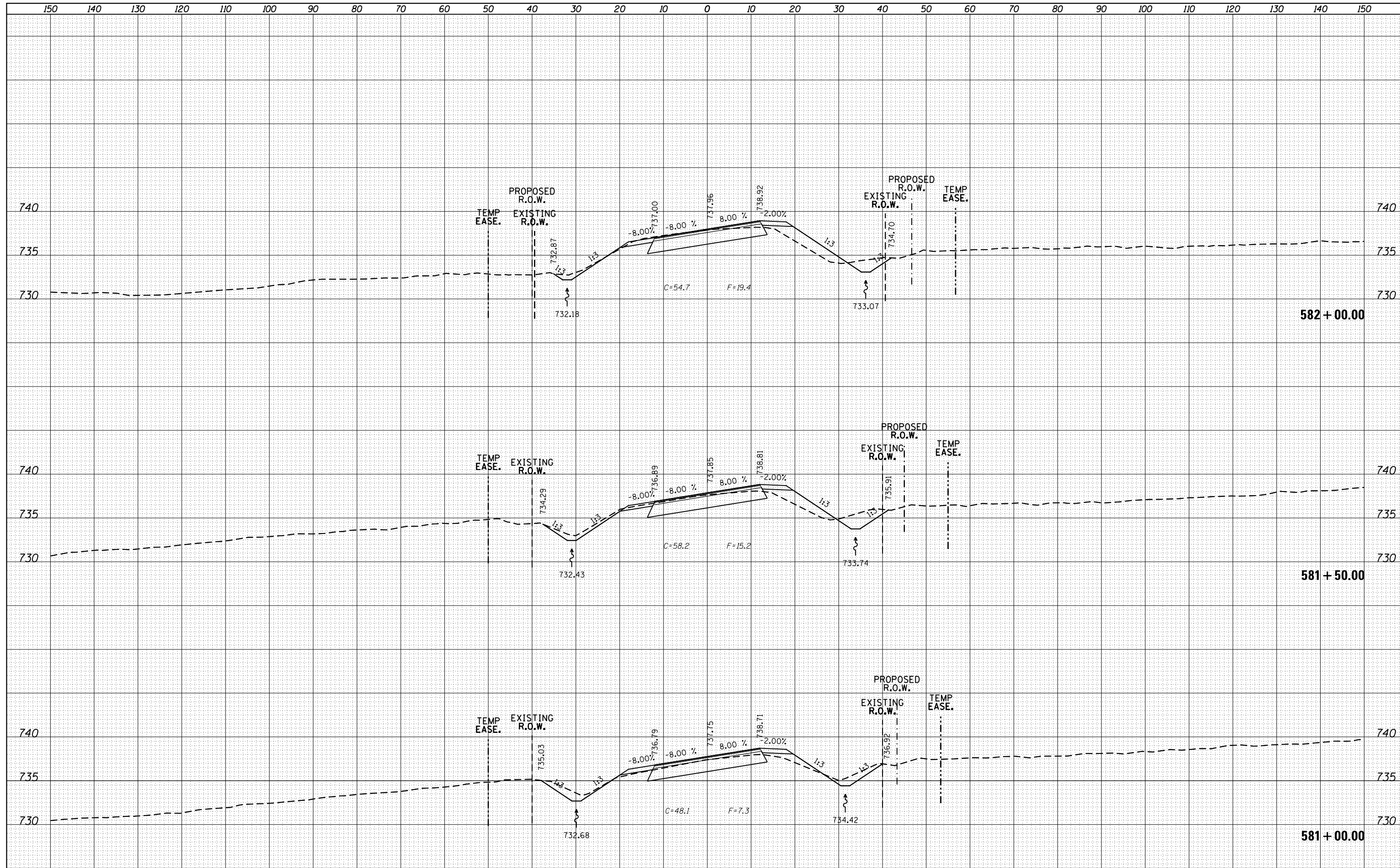
CROSS SECTIONS - IDEAL ROAD

SCALE: SHEET 126 OF 197 SHEETS STA. 580+00.00 TO STA. 580+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	126
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				

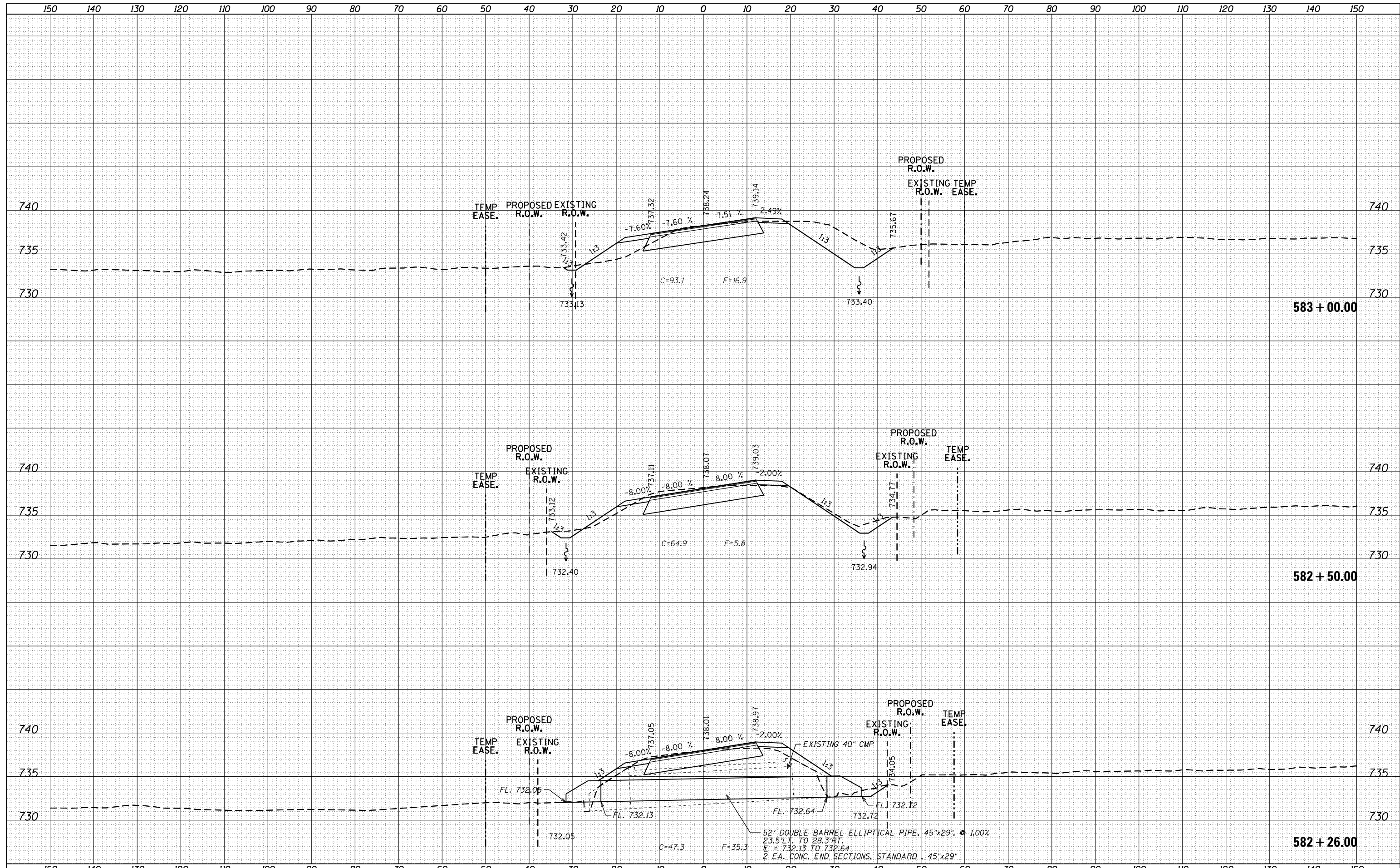
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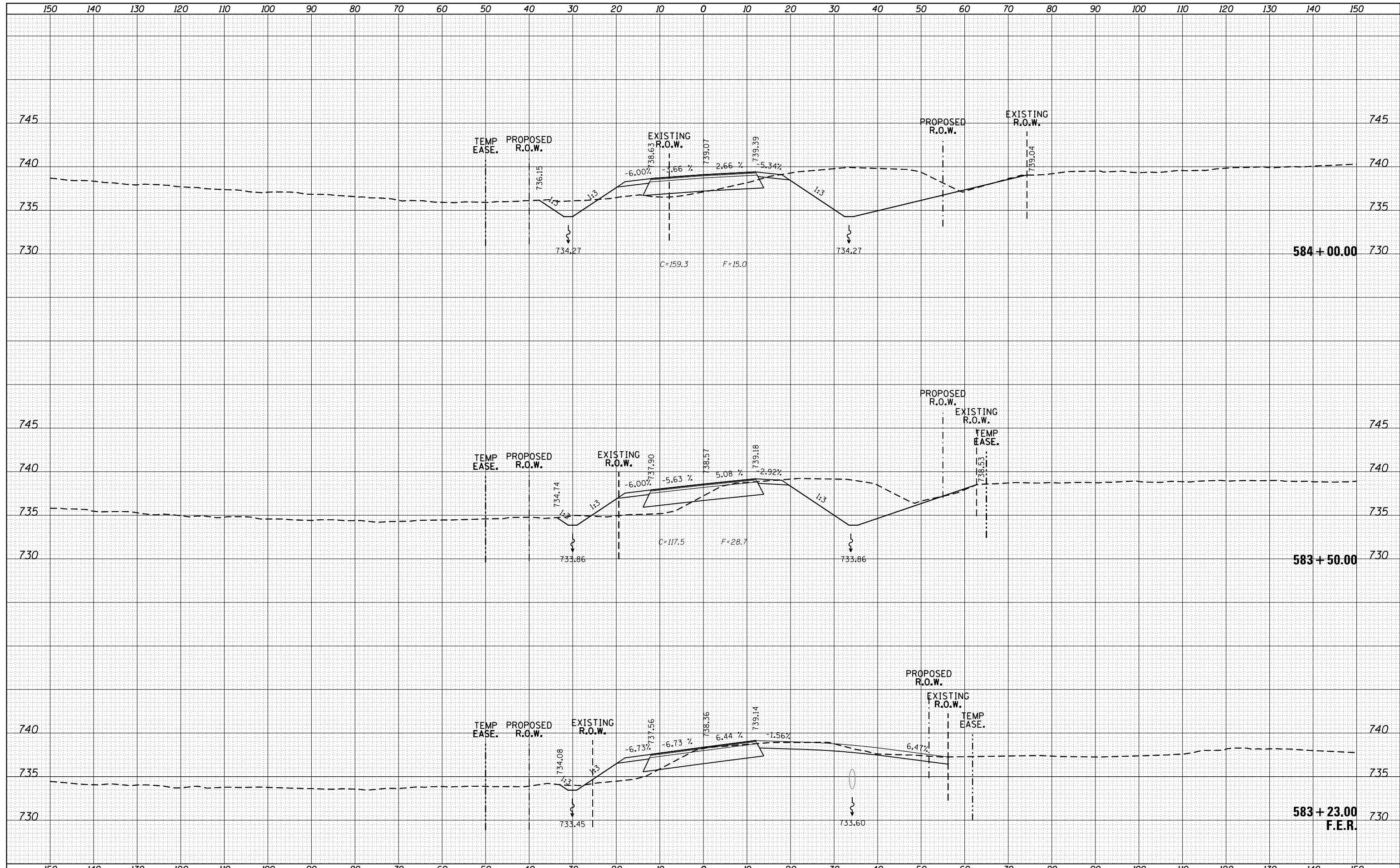
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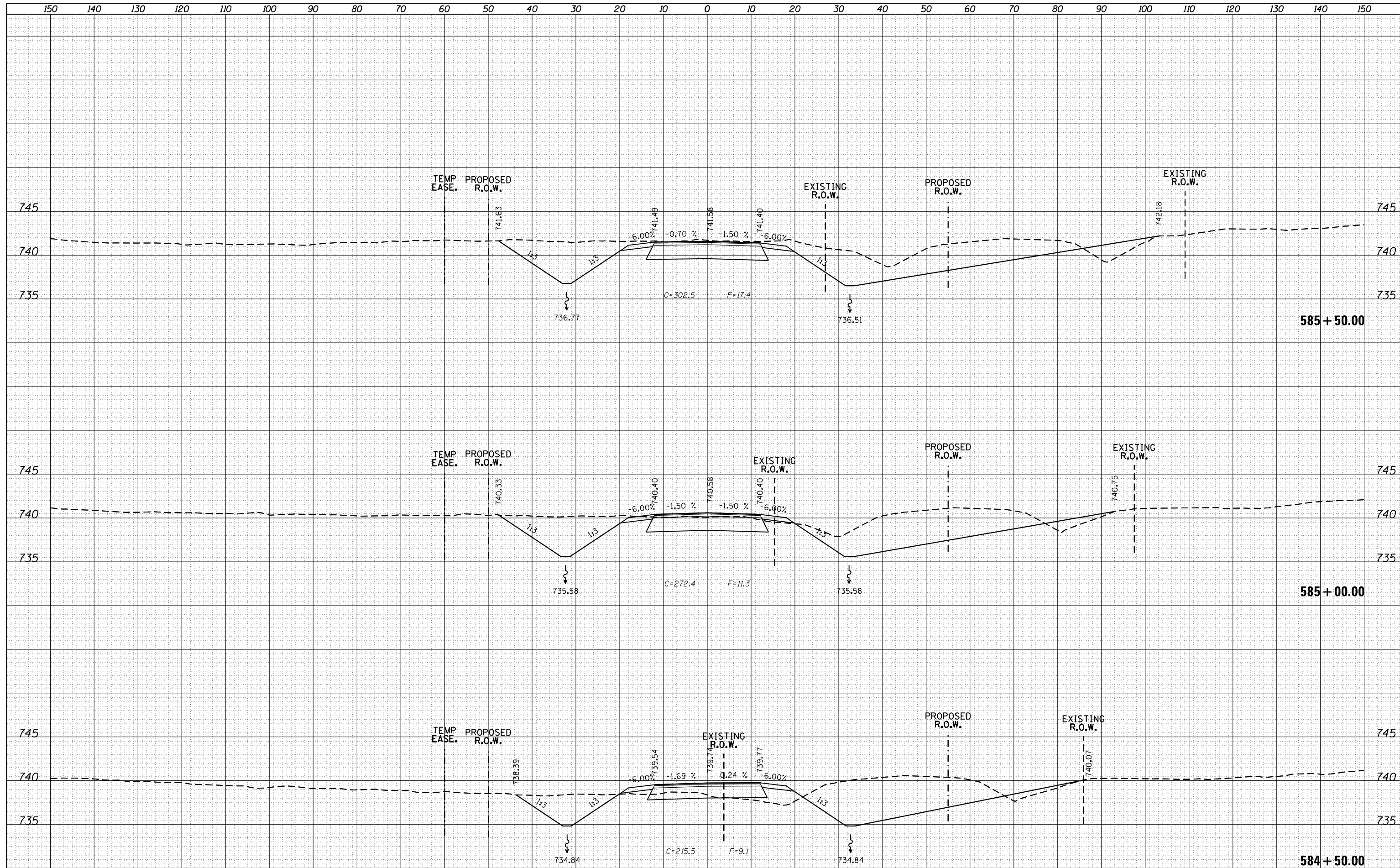
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	PLOT DATE = 11/12/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

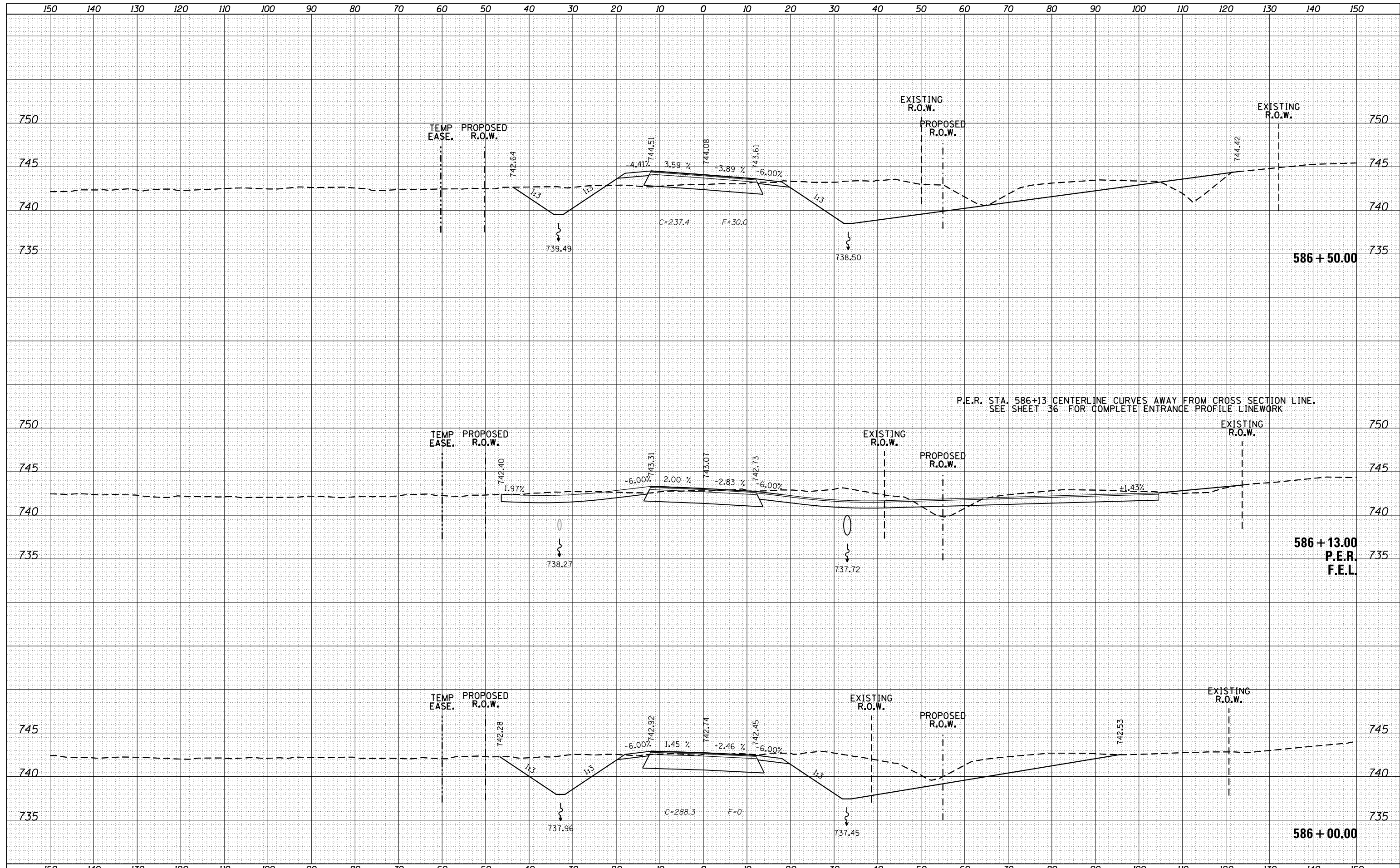
CROSS SECTIONS - IDEAL ROAD

SCALE: SHEET 130 OF 197 SHEETS STA. 584+50.00 TO STA. 585+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	130
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				

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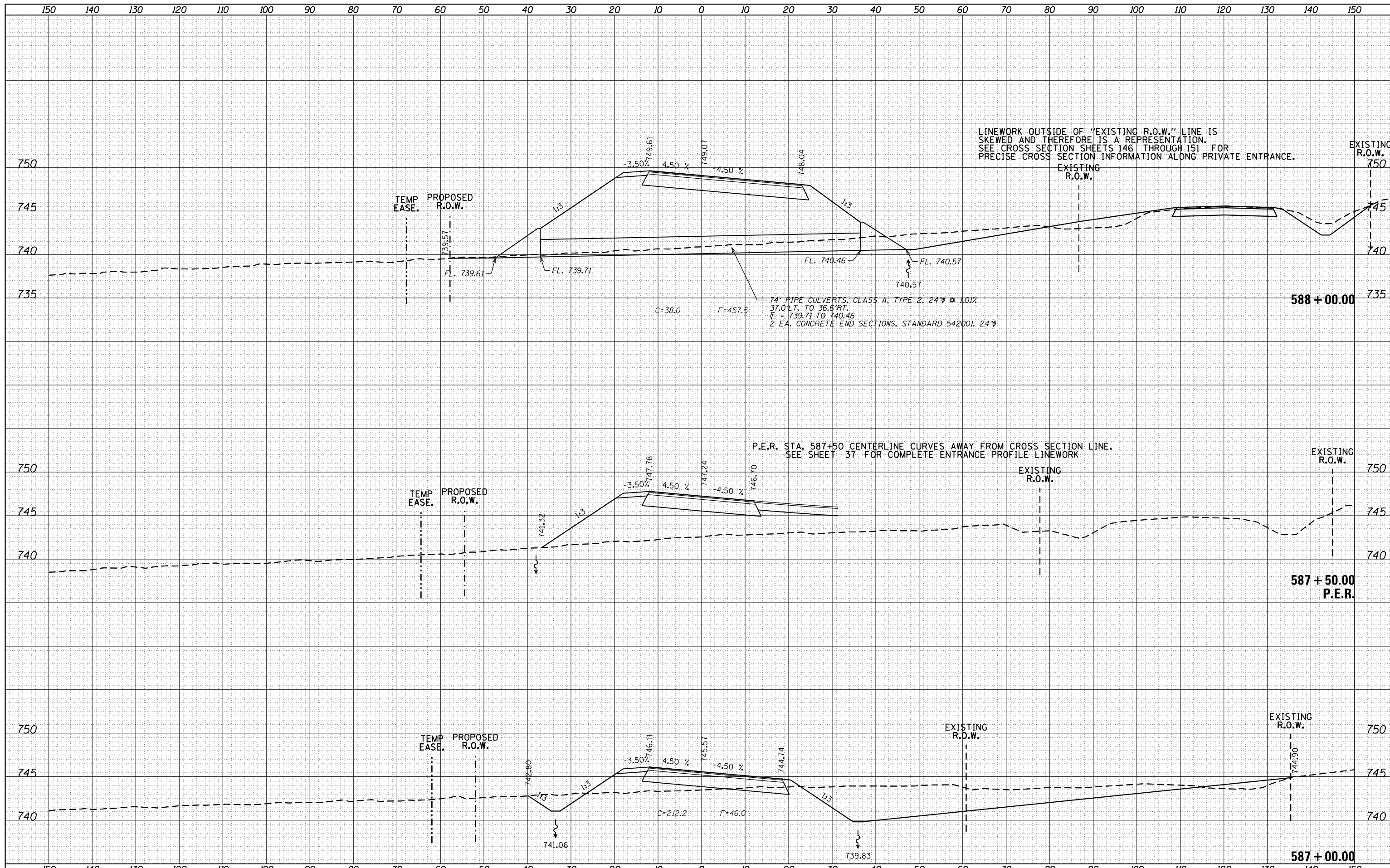
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P.E.R. STA. 586+13 CENTERLINE CURVES AWAY FROM CROSS SECTION LINE. SEE SHEET 36 FOR COMPLETE ENTRANCE PROFILE LINEWORK

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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

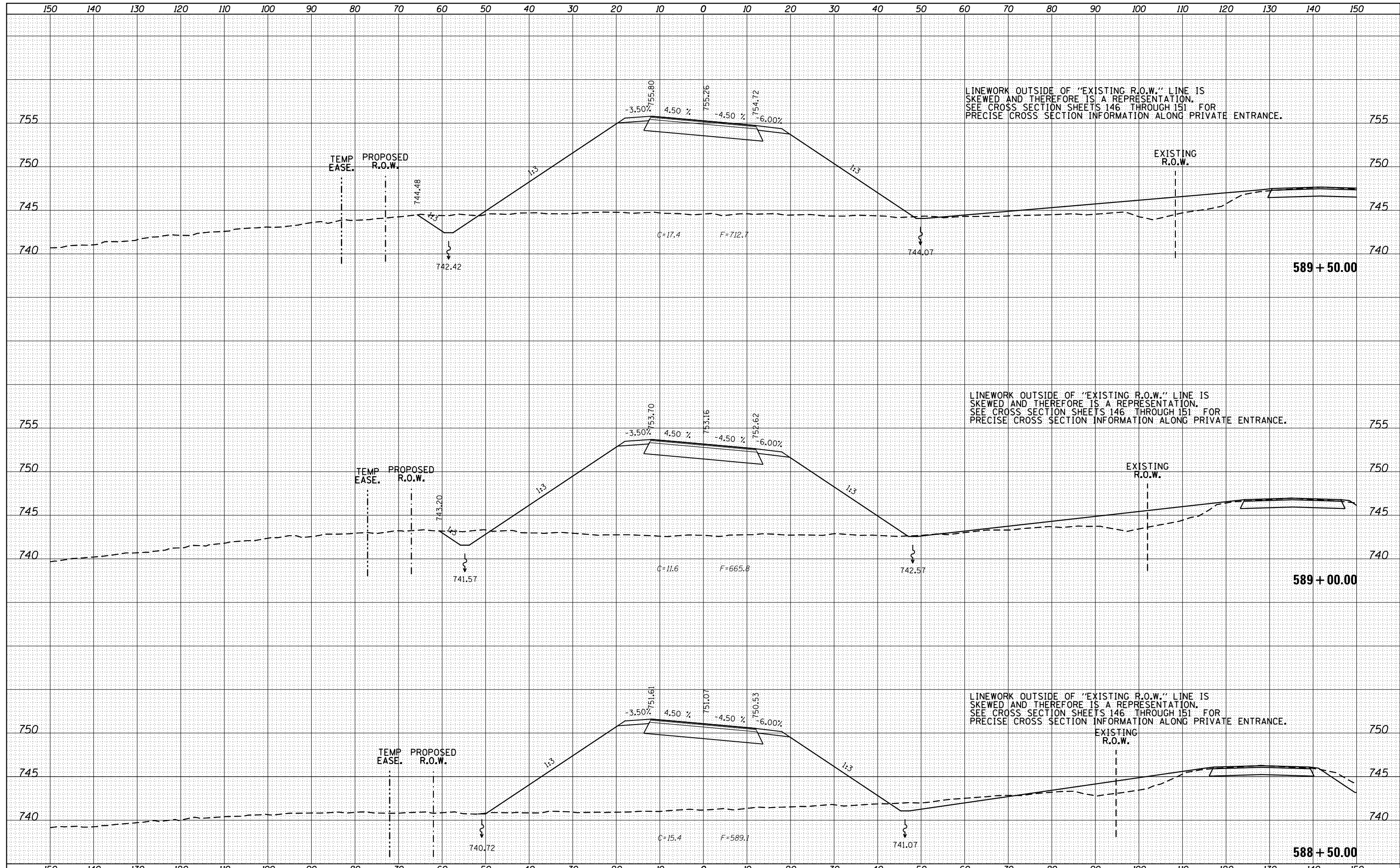
CROSS SECTIONS - IDEAL ROAD

SCALE: SHEET 132 OF 197 SHEETS STA. 587+00.00 TO STA. 588+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	132
				CONTRACT NO. 85645
ILLINOIS FED. AID PROJECT				

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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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	PLOT DATE = 11/12/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

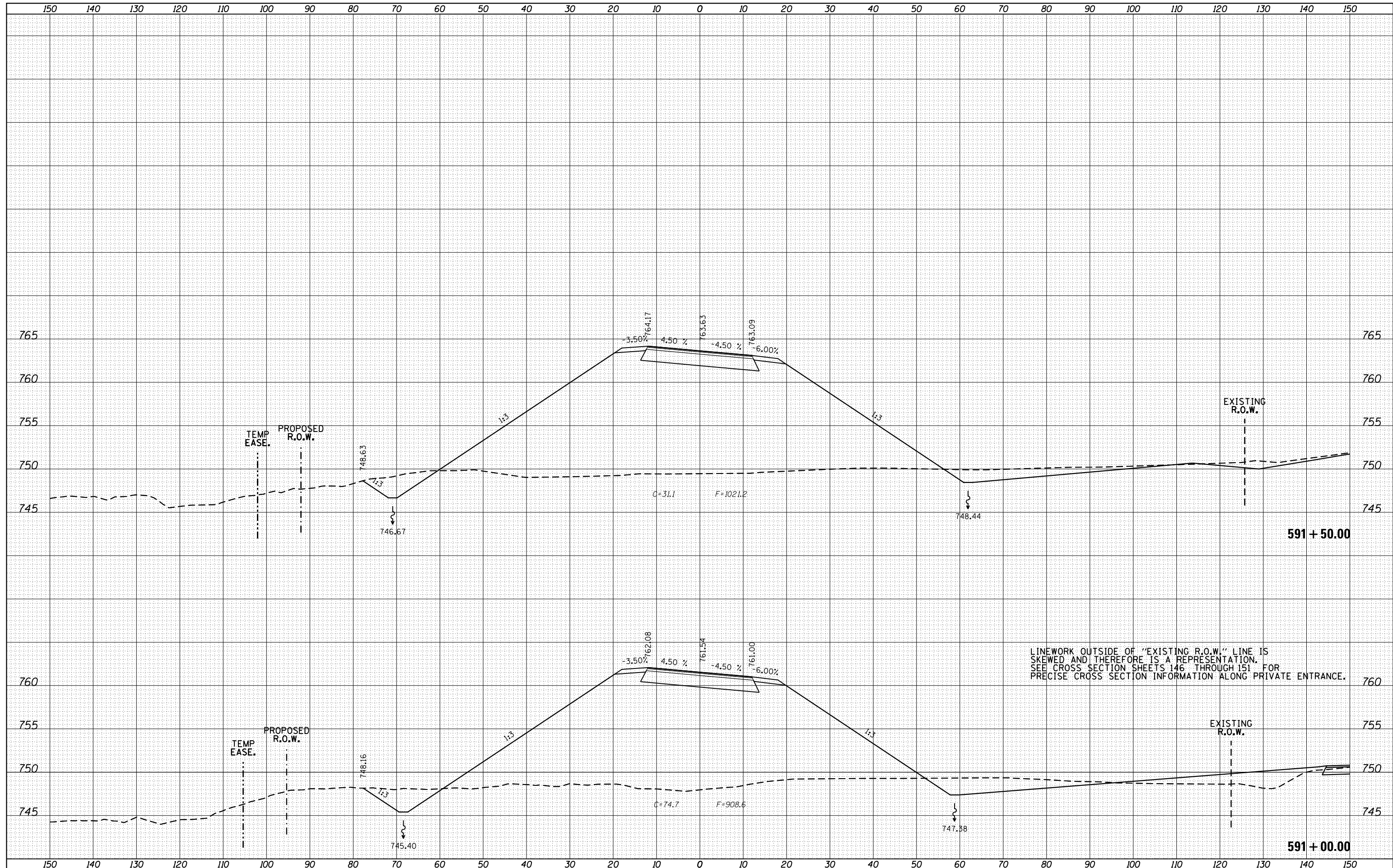
CROSS SECTIONS - IDEAL ROAD

SCALE: SHEET 134 OF 197 SHEETS STA. 590+00.00 TO STA. 590+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	134
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				

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FILE NAME =
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USER NAME = Bryan.Hartmann
 PLOT SCALE = 20.0000' / in.
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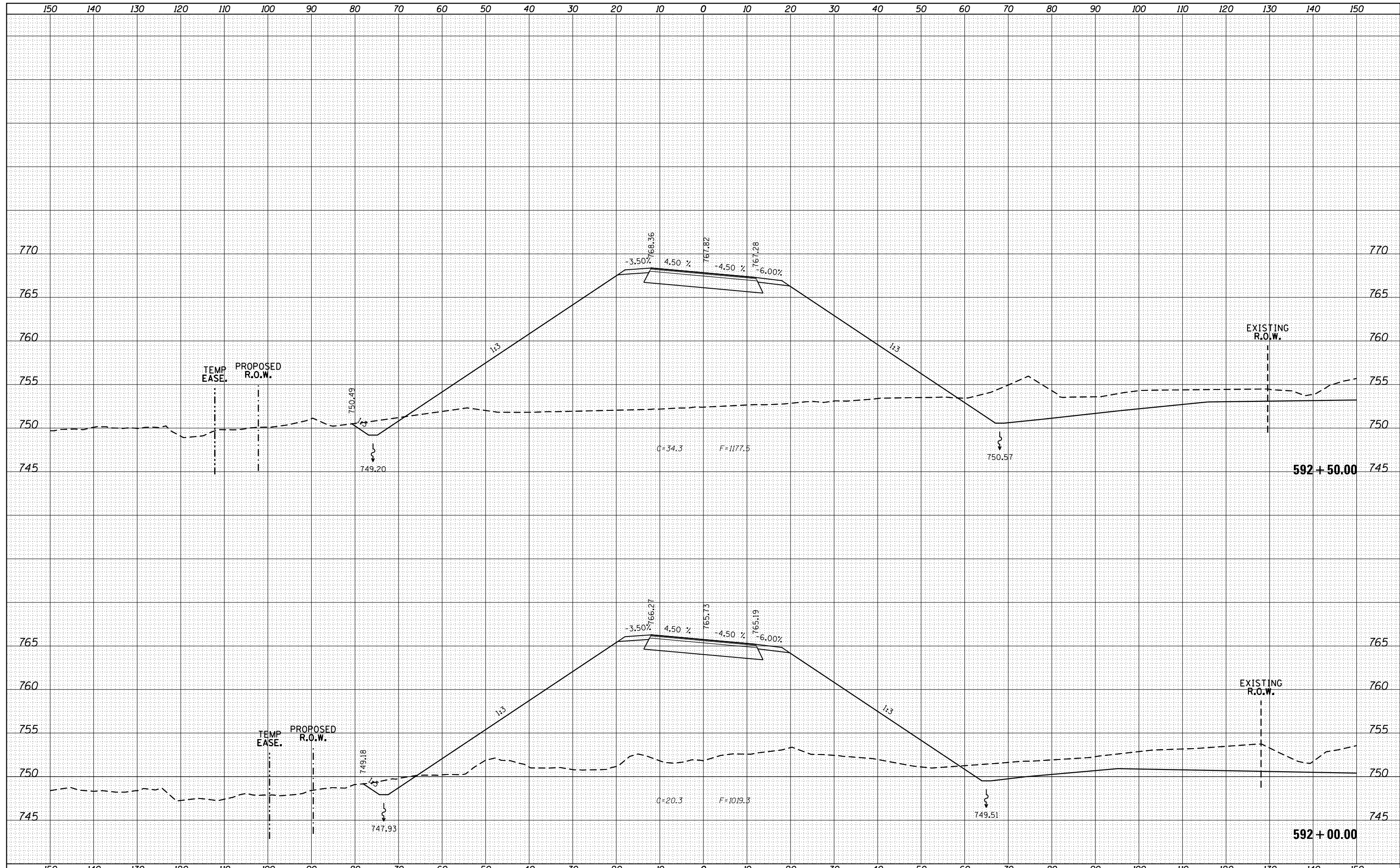
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IDEAL ROAD
 SCALE: SHEET 135 OF 197 SHEETS STA. 591+00.00 TO STA. 591+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	135
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				

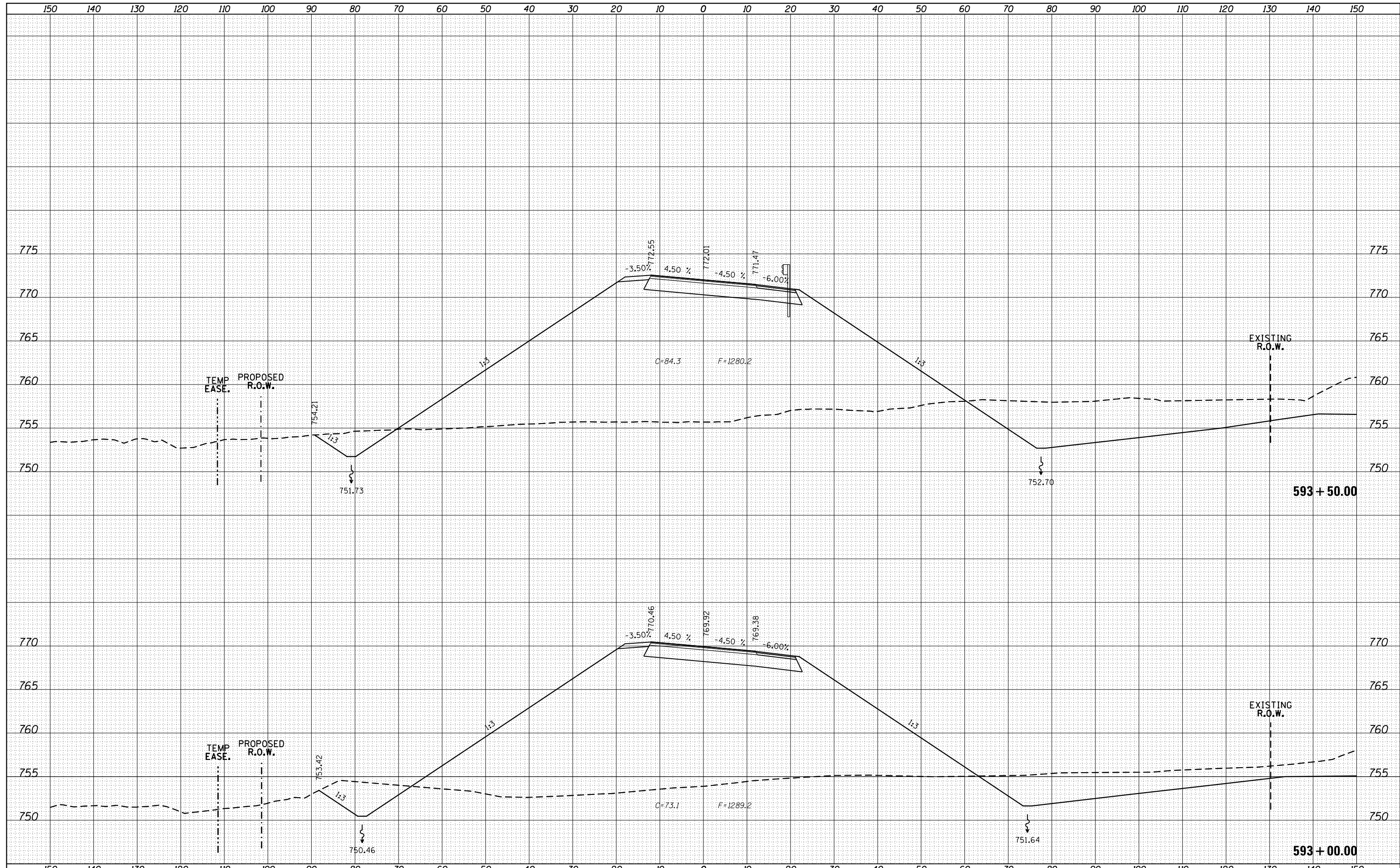
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

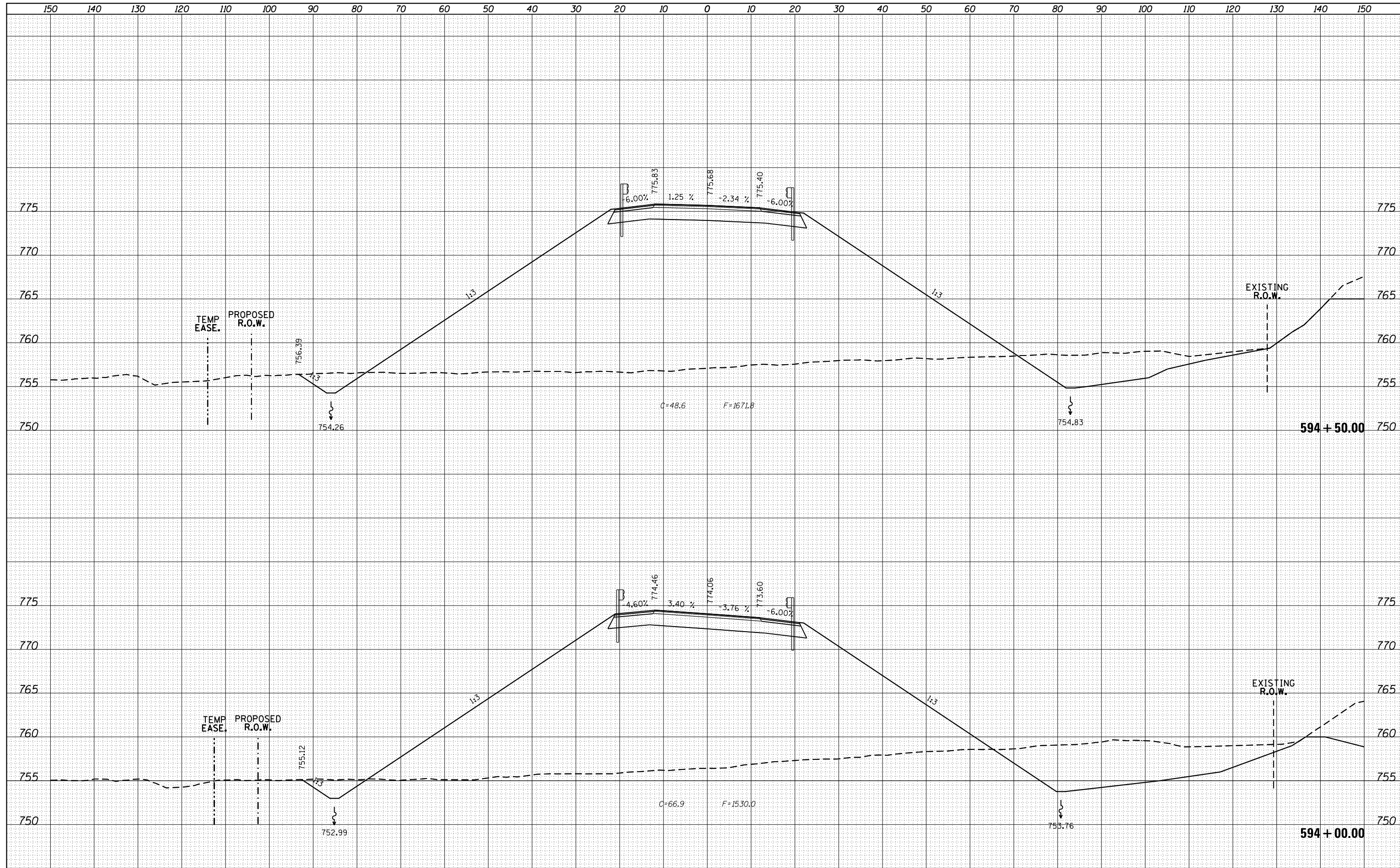
CROSS SECTIONS - IDEAL ROAD

SCALE: SHEET 137 OF 197 SHEETS STA. 593+00.00 TO STA. 593+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	137
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

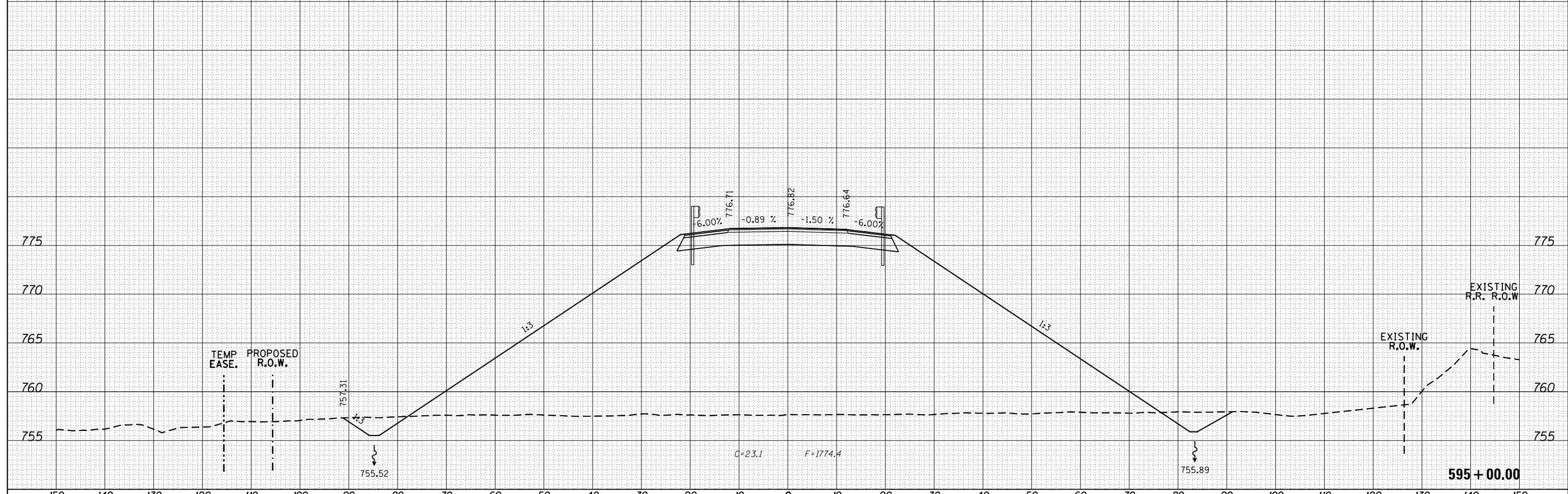
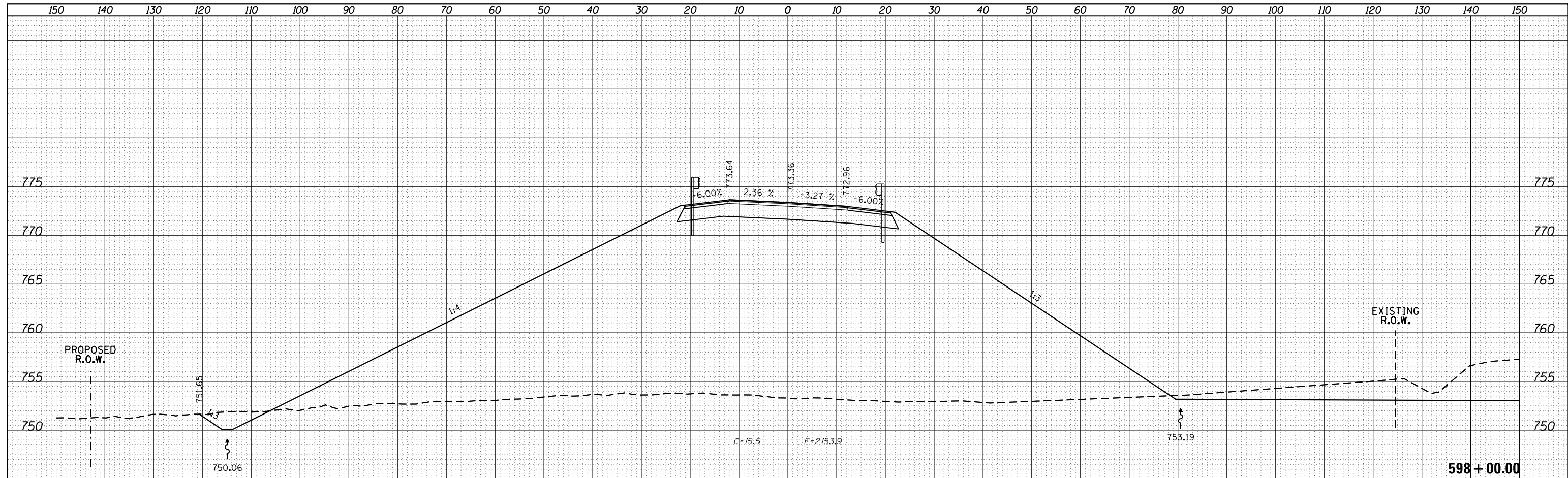
CROSS SECTIONS - IDEAL ROAD

SCALE: SHEET 138 OF 197 SHEETS STA. 594+00.00 TO STA. 594+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	138
CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
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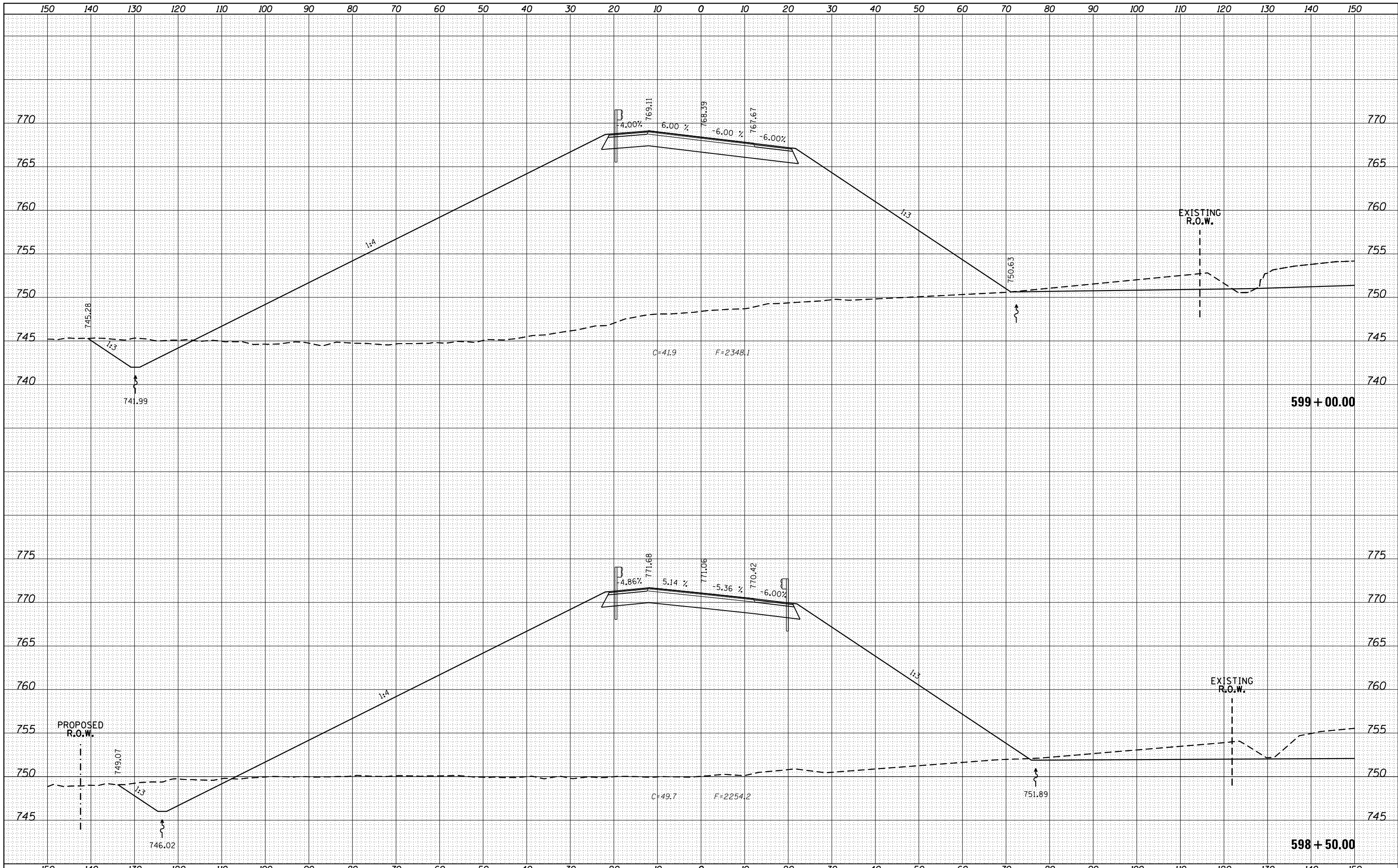
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IDEAL ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET 139 OF 197 SHEETS STA. 595+00.00 TO STA. 595+50.00			CONTRACT NO. 85645				
	PLOT DATE = 11/12/2019	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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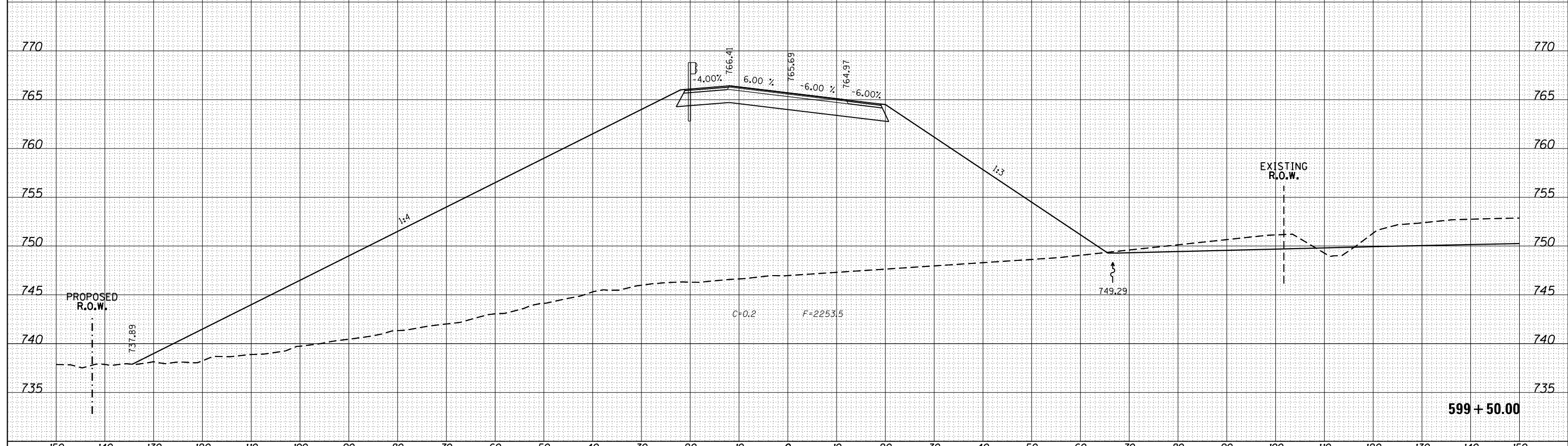
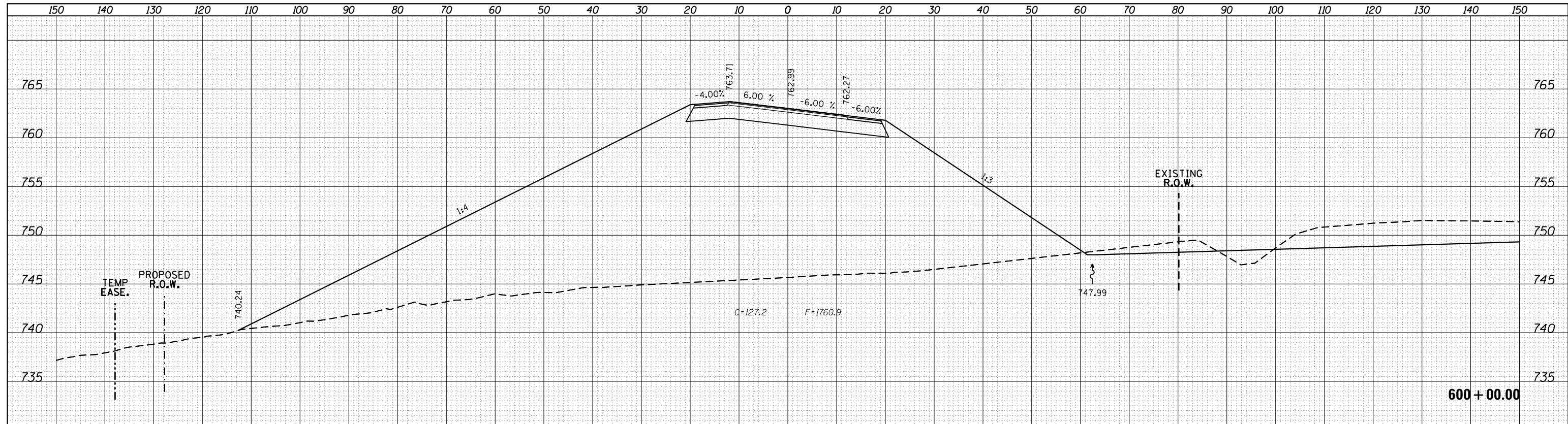
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IDEAL ROAD			
SCALE:	SHEET 140	OF 197 SHEETS	STA. 598+50.00 TO STA. 599+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	140
				CONTRACT NO. 85645
ILLINOIS FED. AID PROJECT				

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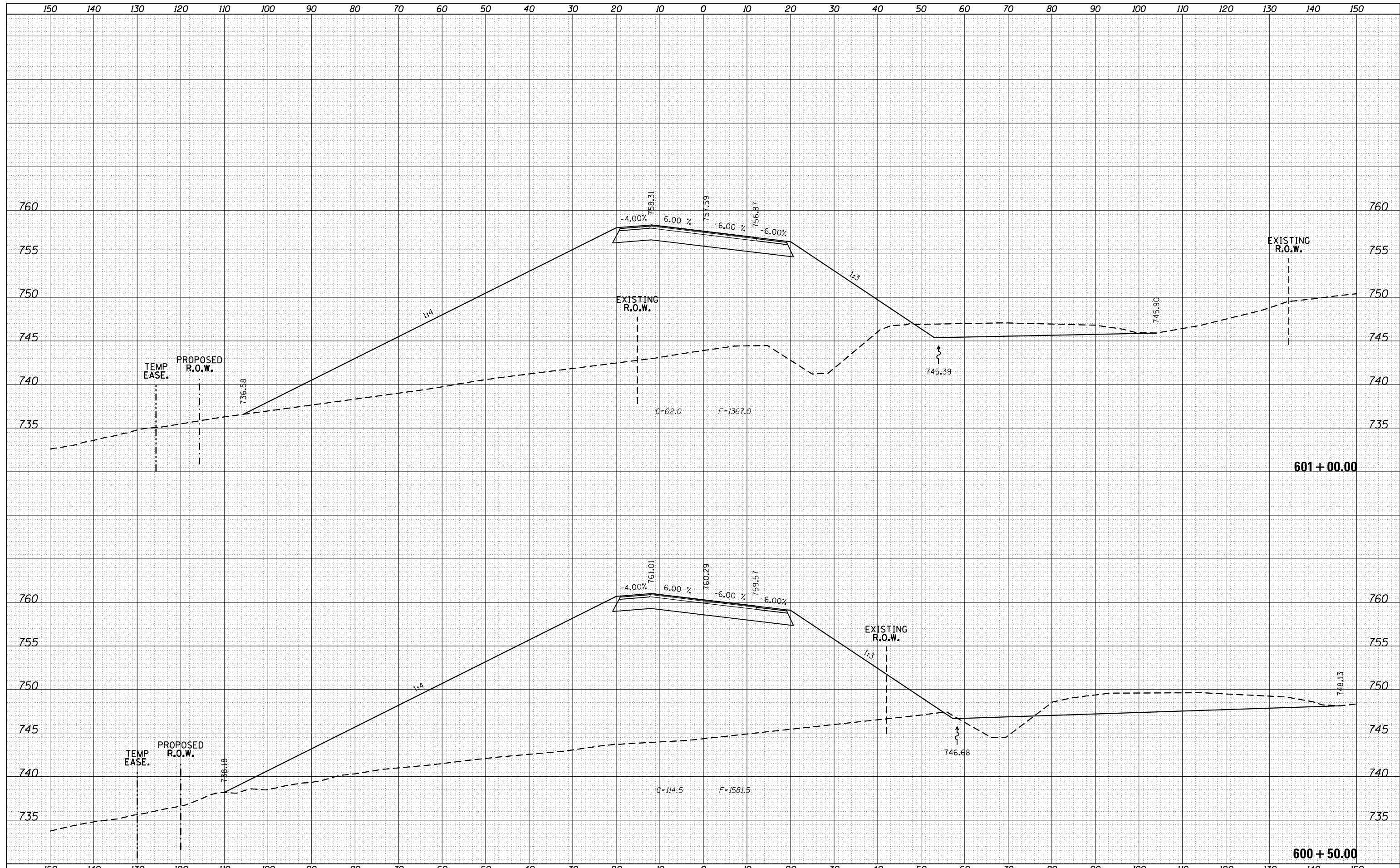
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IDEAL ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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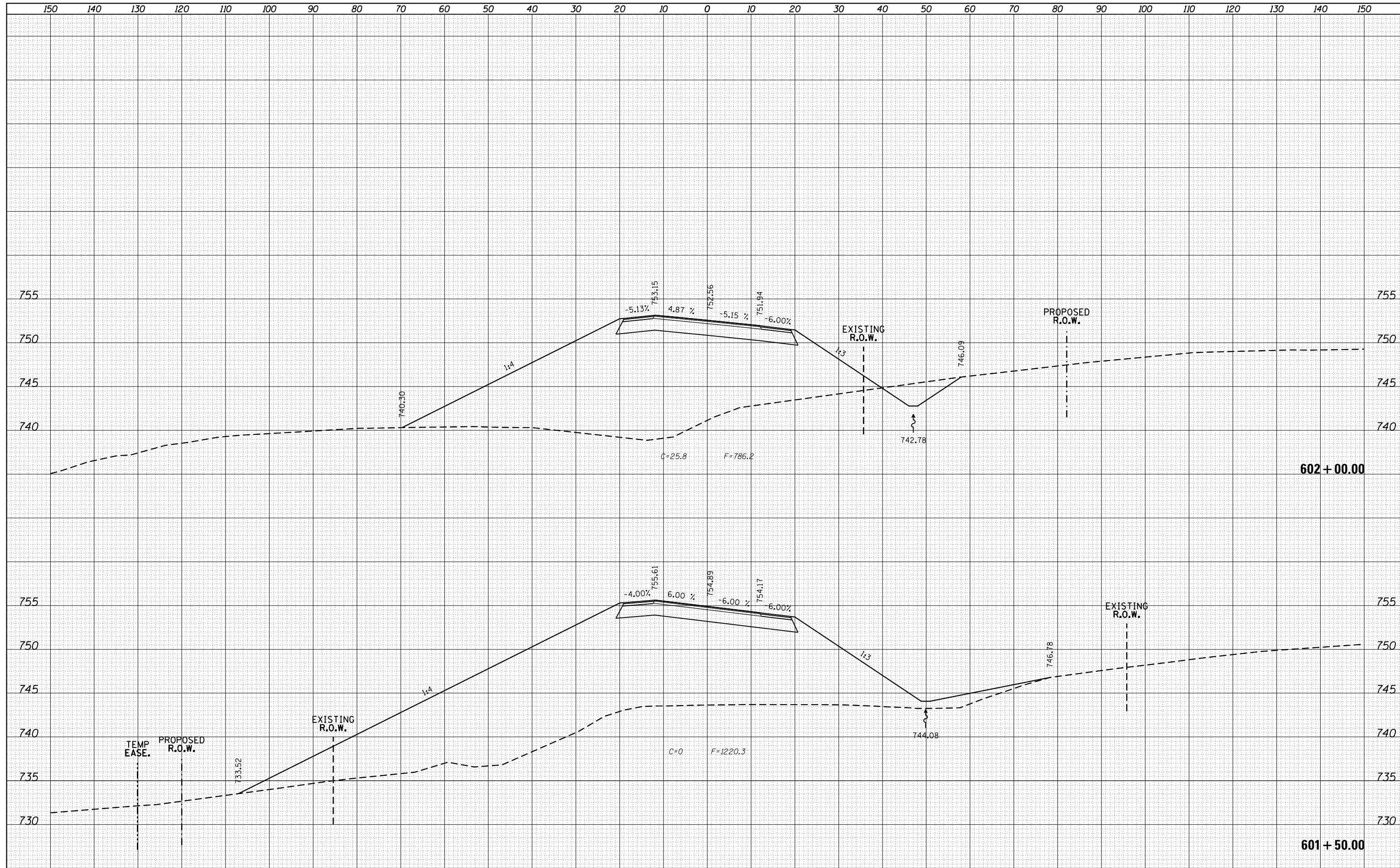
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Default	PLOT DATE = 11/12/2019	DATE -	REVISED -		SCALE:	SHEET 142	OF 197 SHEETS	STA. 600+50.00	TO STA. 601+00.00	ILLINOIS FED. AID PROJECT			

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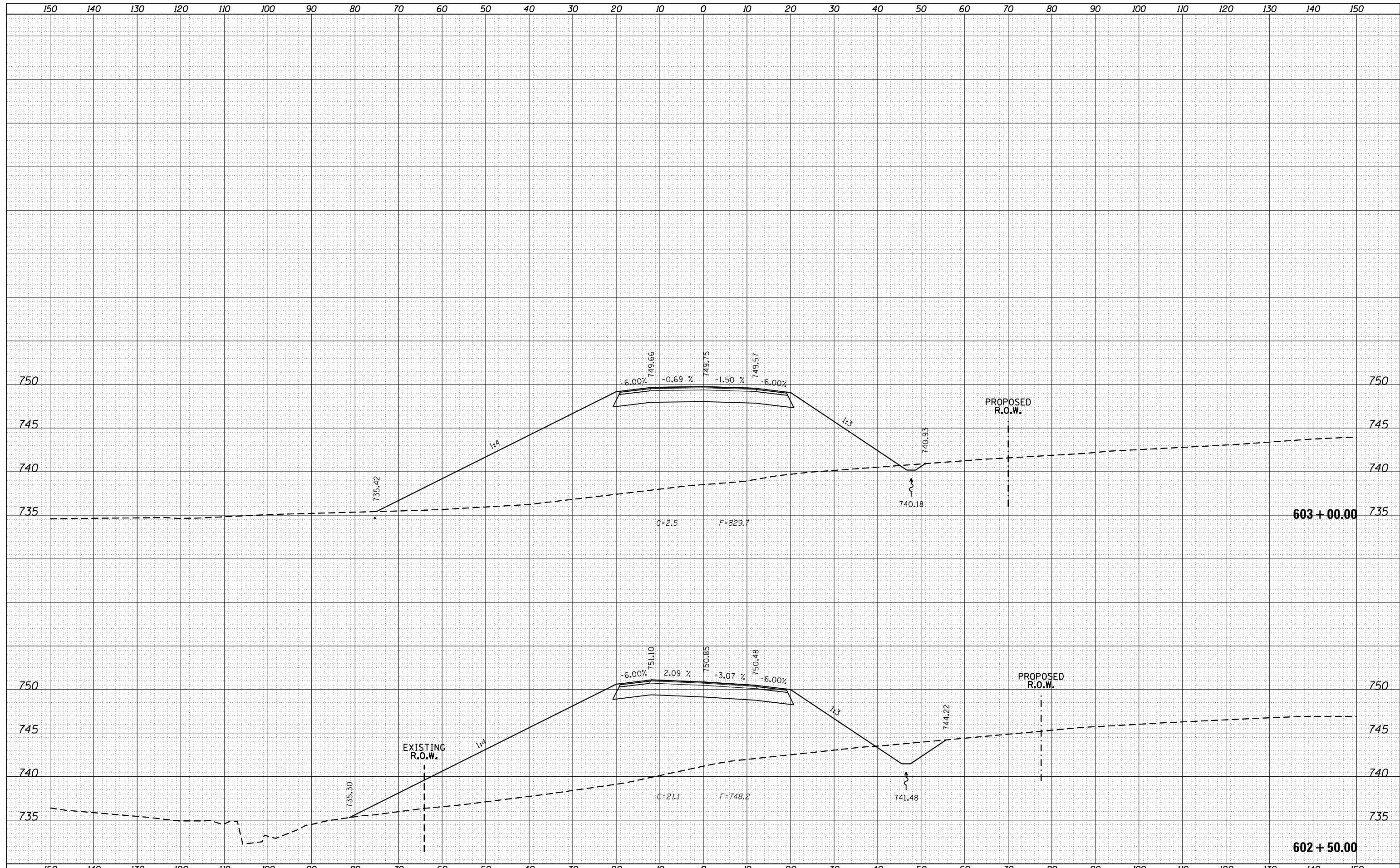
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IDEAL ROAD			
SCALE:	SHEET 143	OF 197 SHEETS	STA. 601+50.00 TO STA. 602+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	143
			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

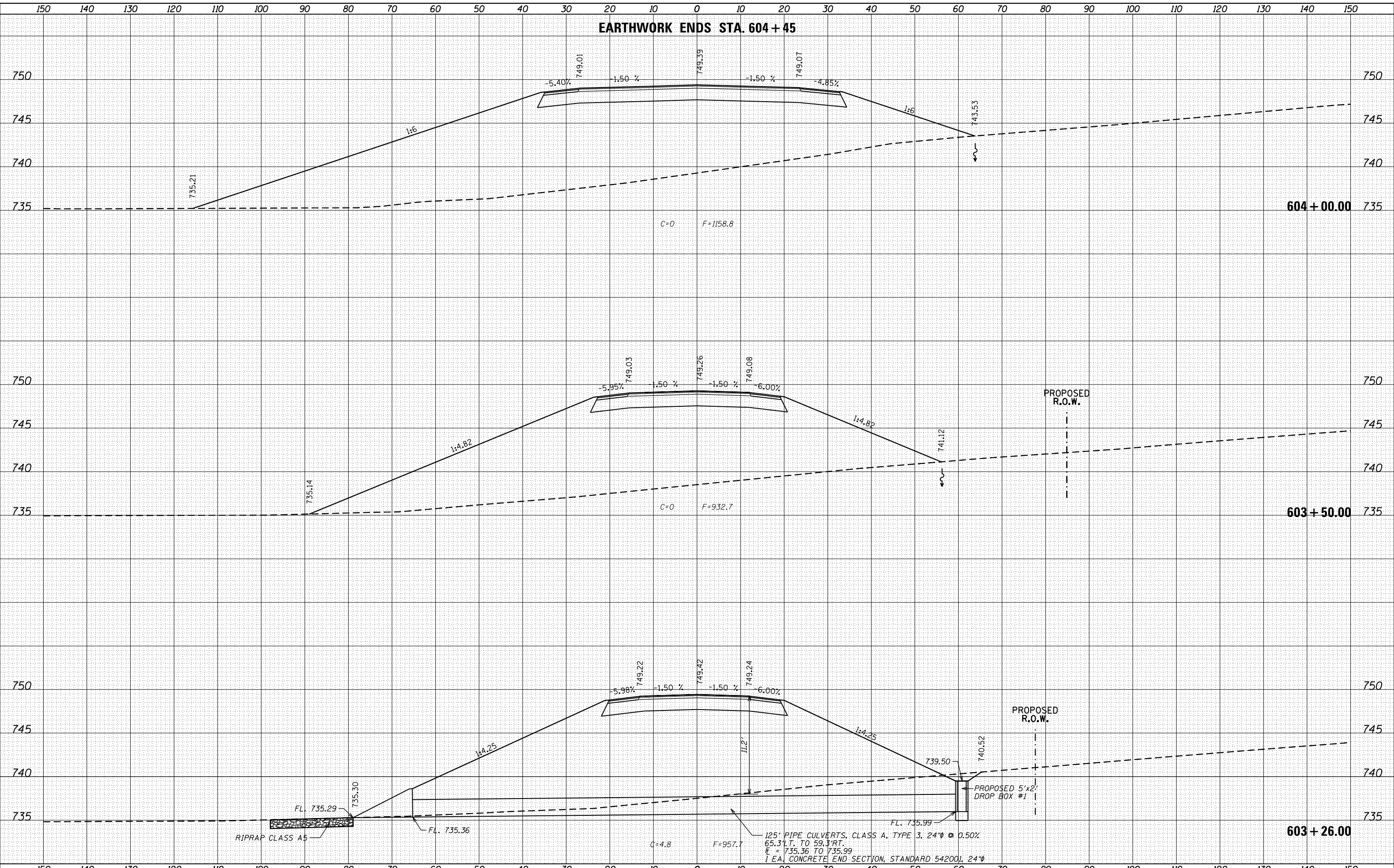
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - IDEAL ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PIDEAL_CrossSections.dgn		DRAWN -	REVISED -		1084	03-00083-00-BR	CARROLL	197	144			
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	PLOT DATE = 11/12/2019	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

EARTHWORK ENDS STA. 604 + 45

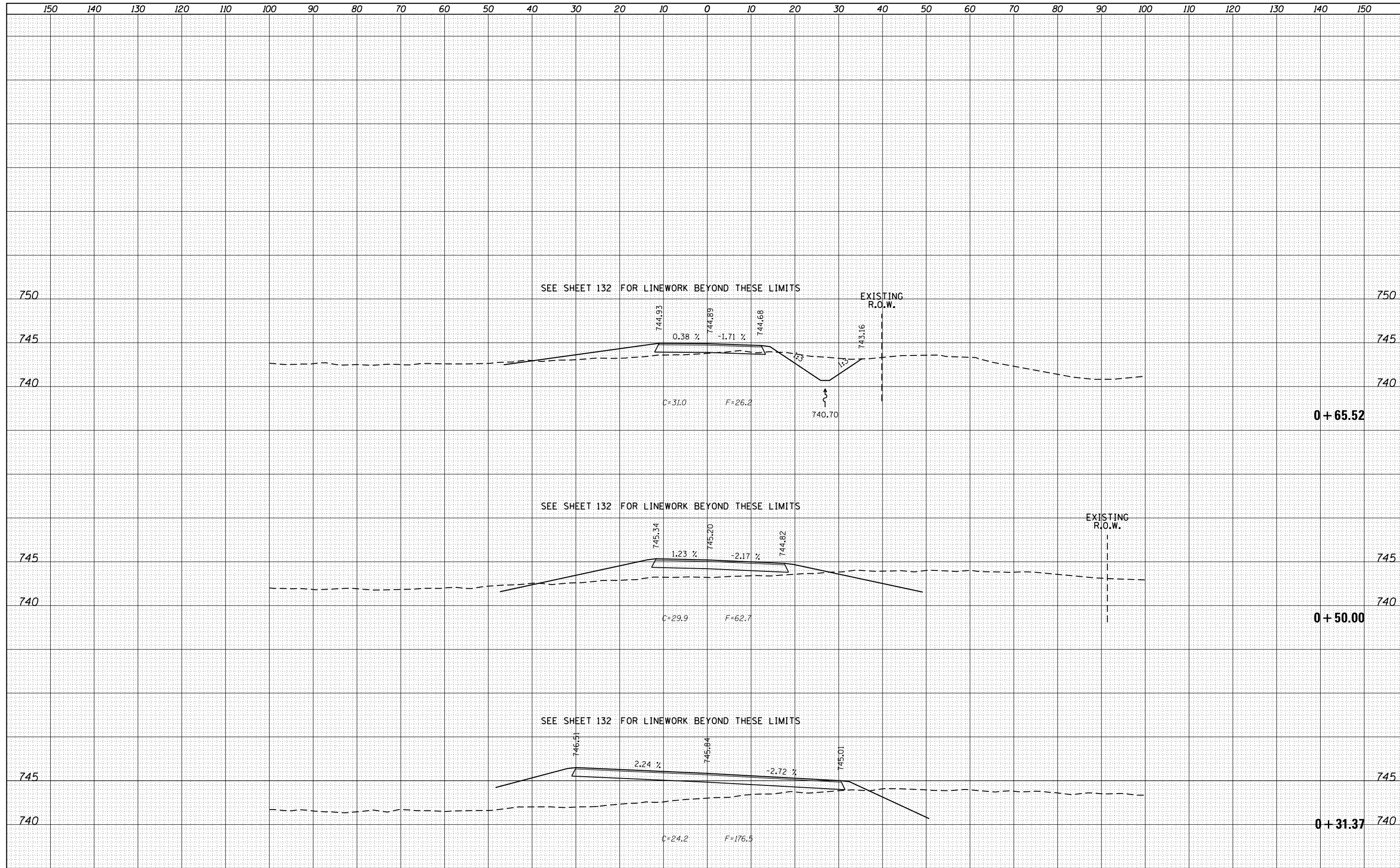


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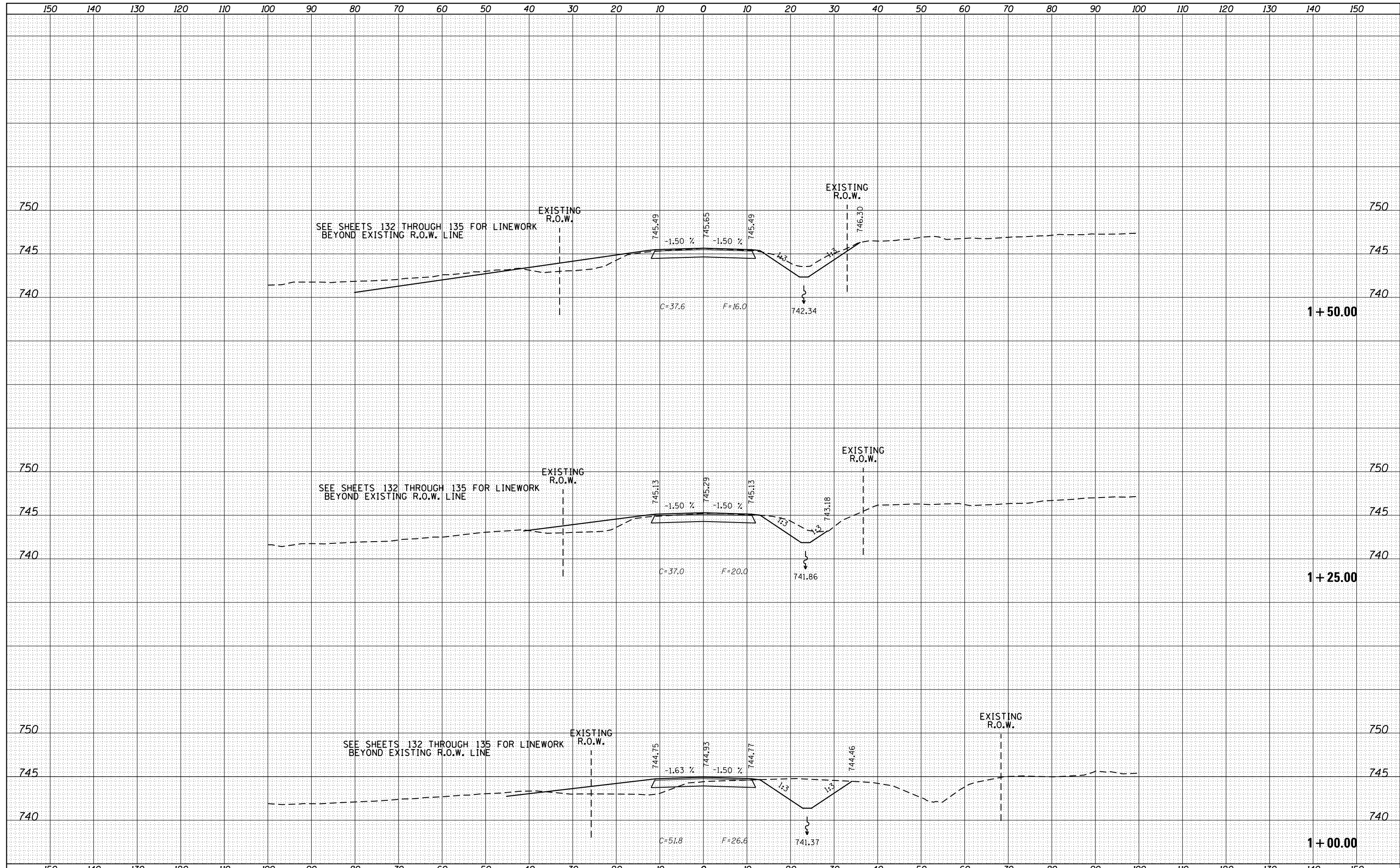
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS PROPOSED PRIVATE ENTRANCE - RT. STA 587+50 IDEAL ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 11/12/2019	DATE -	REVISED -		SCALE:	SHEET 146	OF 197 SHEETS	STA. +31.37	TO STA. +65.52			

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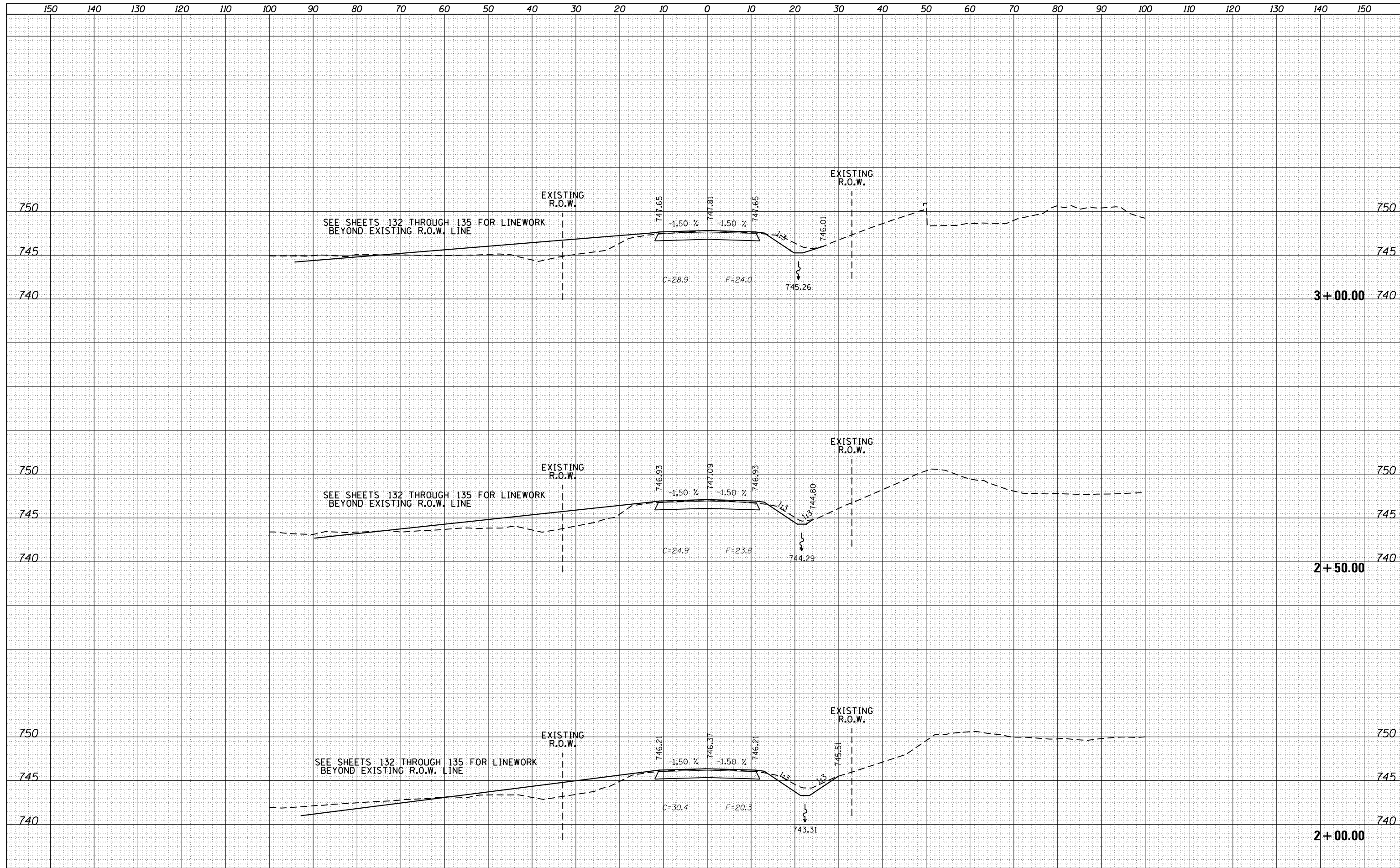
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS PROPOSED PRIVATE ENTRANCE - RT. STA 587+50 IDEAL ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PIDEALENT1.CrossSections.dgn		DRAWN -	REVISED -		1084	03-00083-00-BR	CARROLL	197	147			
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 85645							
Default		DATE -	REVISED -		SCALE:	SHEET 147	OF 197 SHEETS	STA. 1+00.00	TO STA. 1+50.00	ILLINOIS FED. AID PROJECT		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

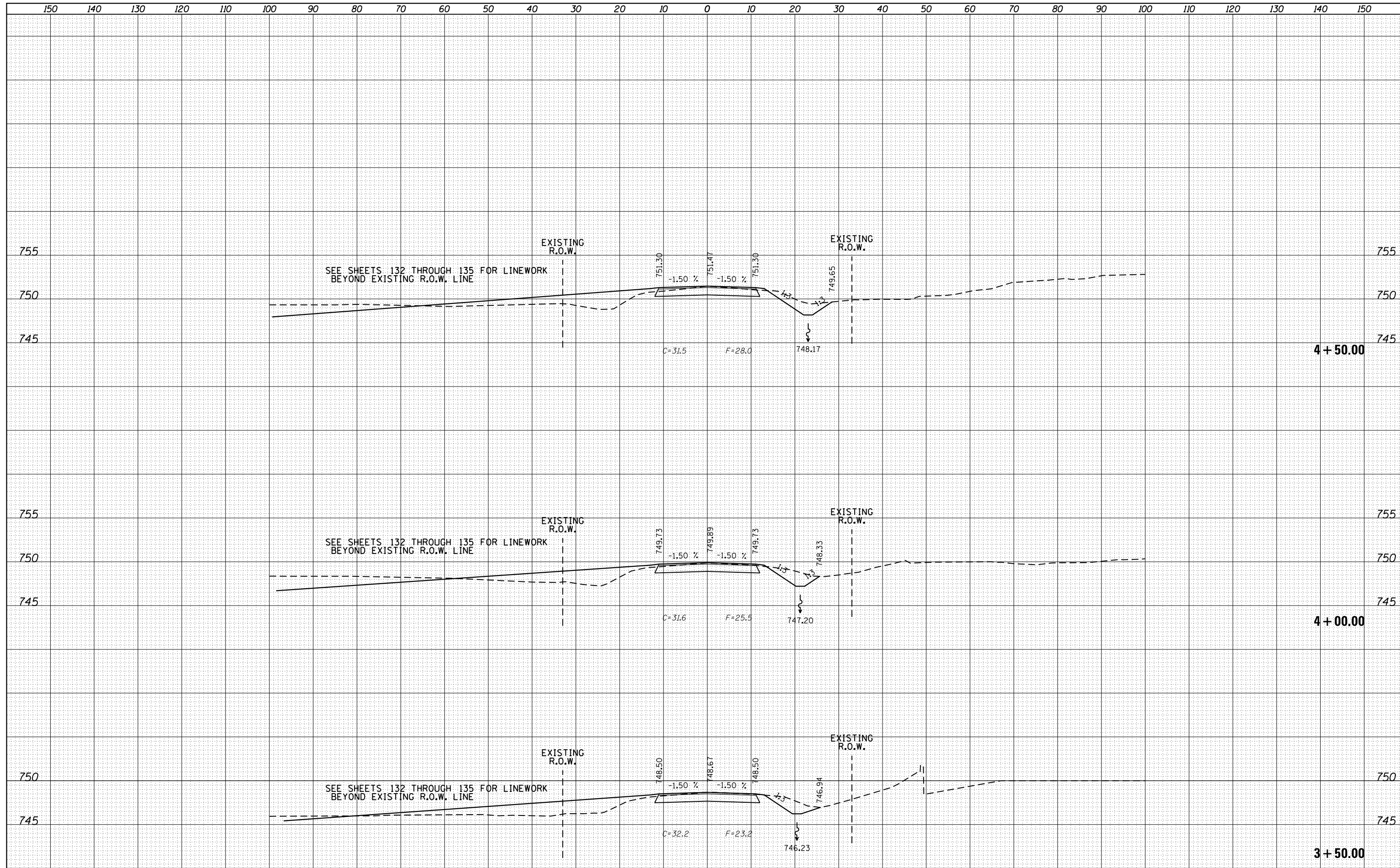
**CROSS SECTIONS
PROPOSED PRIVATE ENTRANCE - RT. STA 587 + 50 IDEAL ROAD**

SCALE: SHEET 148 OF 197 SHEETS STA. 2+00.00 TO STA. 3+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	148
				CONTRACT NO. 85645
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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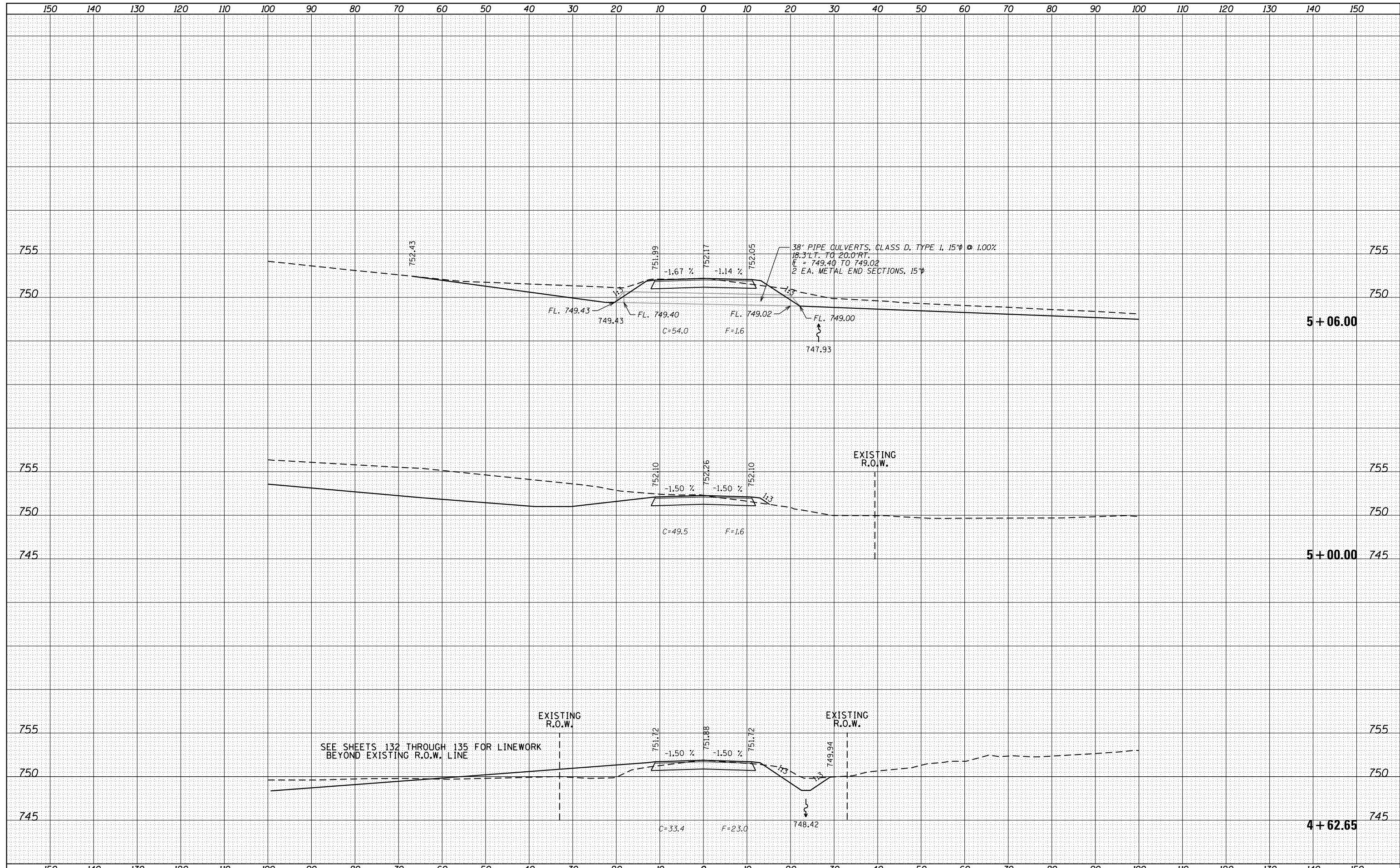
DATE	
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NOTE BOOK	
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS PROPOSED PRIVATE ENTRANCE - RT. STA 587 + 50 IDEAL ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PIDEALENT1\CrossSections.dgn		DRAWN -	REVISED -					1084	03-00083-00-BR	CARROLL	197	149
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -					CONTRACT NO. 85645				
Default		DATE -	REVISED -					SCALE:	SHEET 149 OF 197 SHEETS	STA. 3+50.00 TO STA. 4+50.00	ILLINOIS FED. AID PROJECT	

DATE	
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FINISHED SURVEY	
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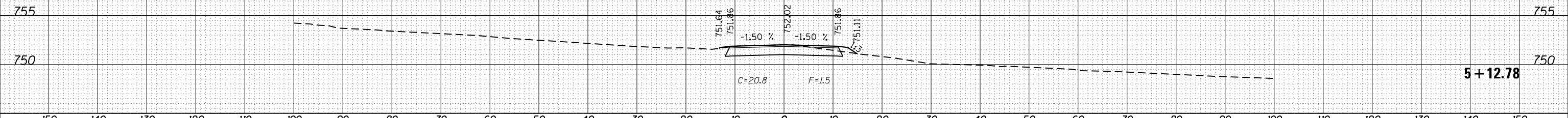
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NOTE BOOK	
AREAS CHECKED	
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE	BY	SURVEYED	PLOTTED
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 PLOT DATE = 11/12/2019

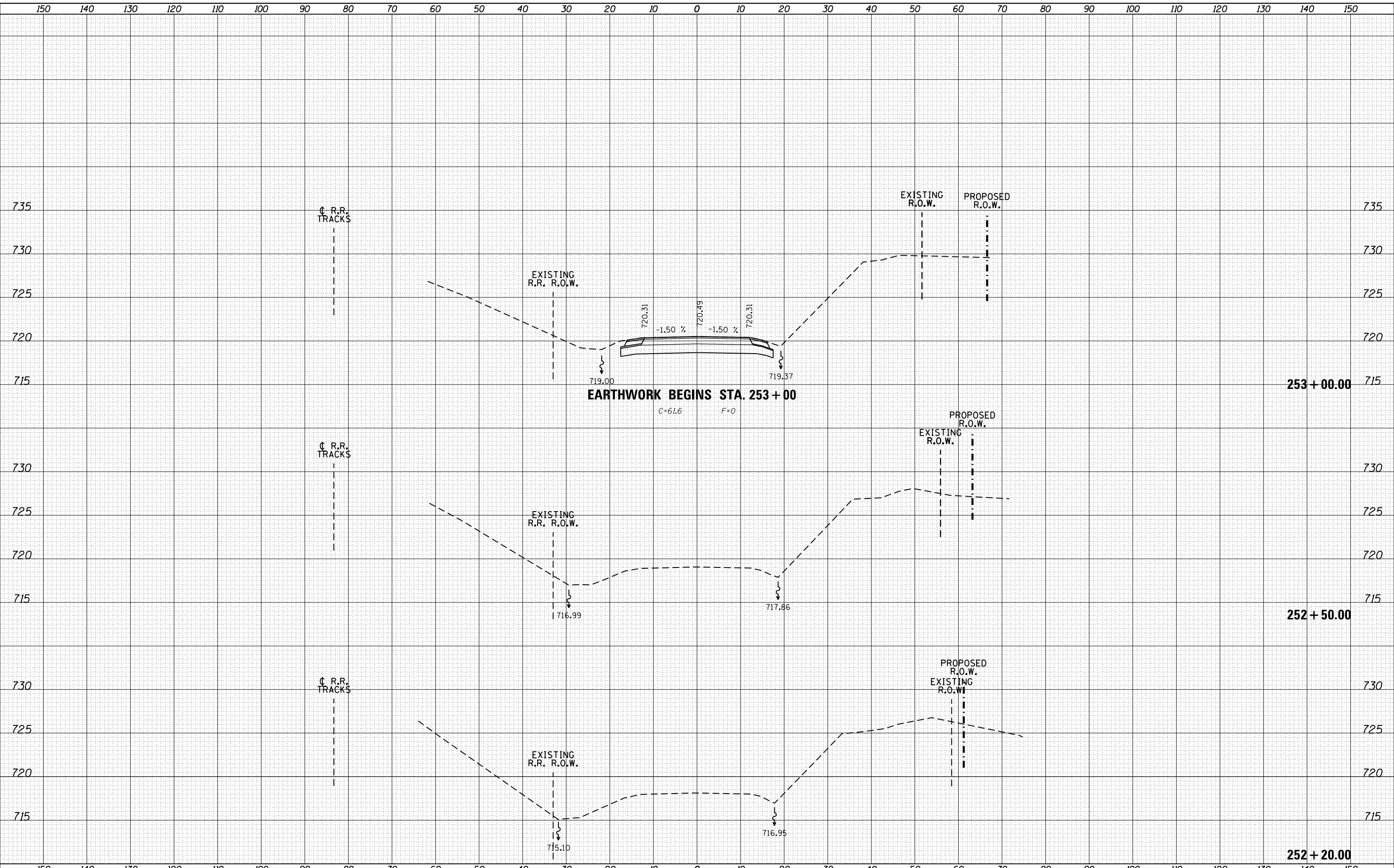
USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
PROPOSED PRIVATE ENTRANCE - RT. STA 587 + 50 IDEAL ROAD
 SCALE: SHEET 151 OF 197 SHEETS STA. 5+12.78 TO STA. 5+12.78

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	151
				CONTRACT NO. 85645

ILLINOIS FED. AID PROJECT



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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
F:\2012\Jobs\2120237\Geopak\PIL40_CrossSections\NEW.dgn		DRAWN -	REVISED -
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		DATE -	REVISED -

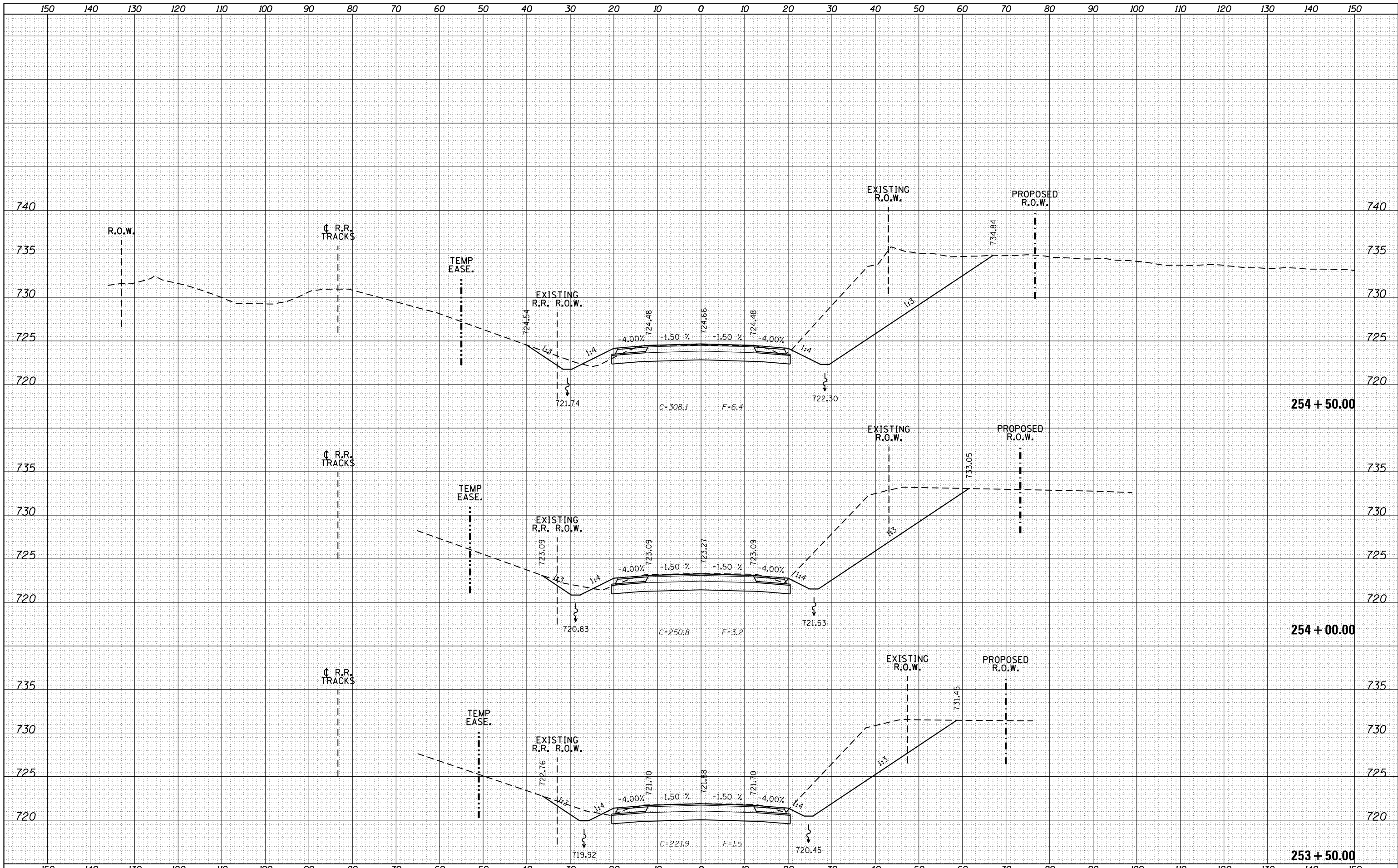
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 40 CROSS SECTIONS

SCALE: SHEET 152 OF 197 SHEETS STA. 252+20.00 TO STA. 253+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	152
JOB *C-92-067-06				CONTRACT NO. 85645

ILLINOIS FED. AID PROJECT

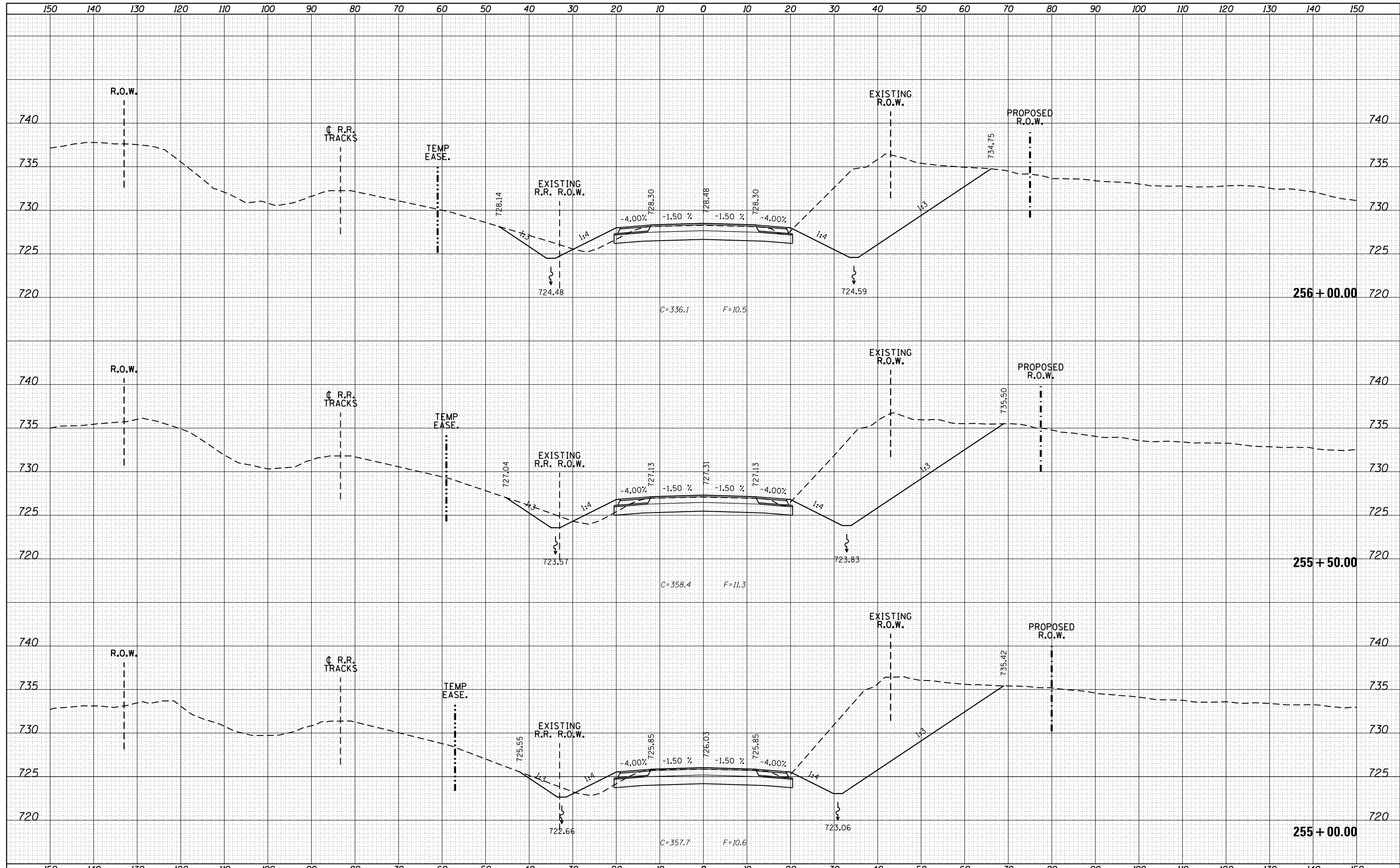


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FILE NAME = F:\2012Jobs\2120237\Geopak\PL140_CrossSections\NEW.dgn
 USER NAME = Bryan.Hartmann
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 11/12/2019

DESIGNED -	REVISIED -
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CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

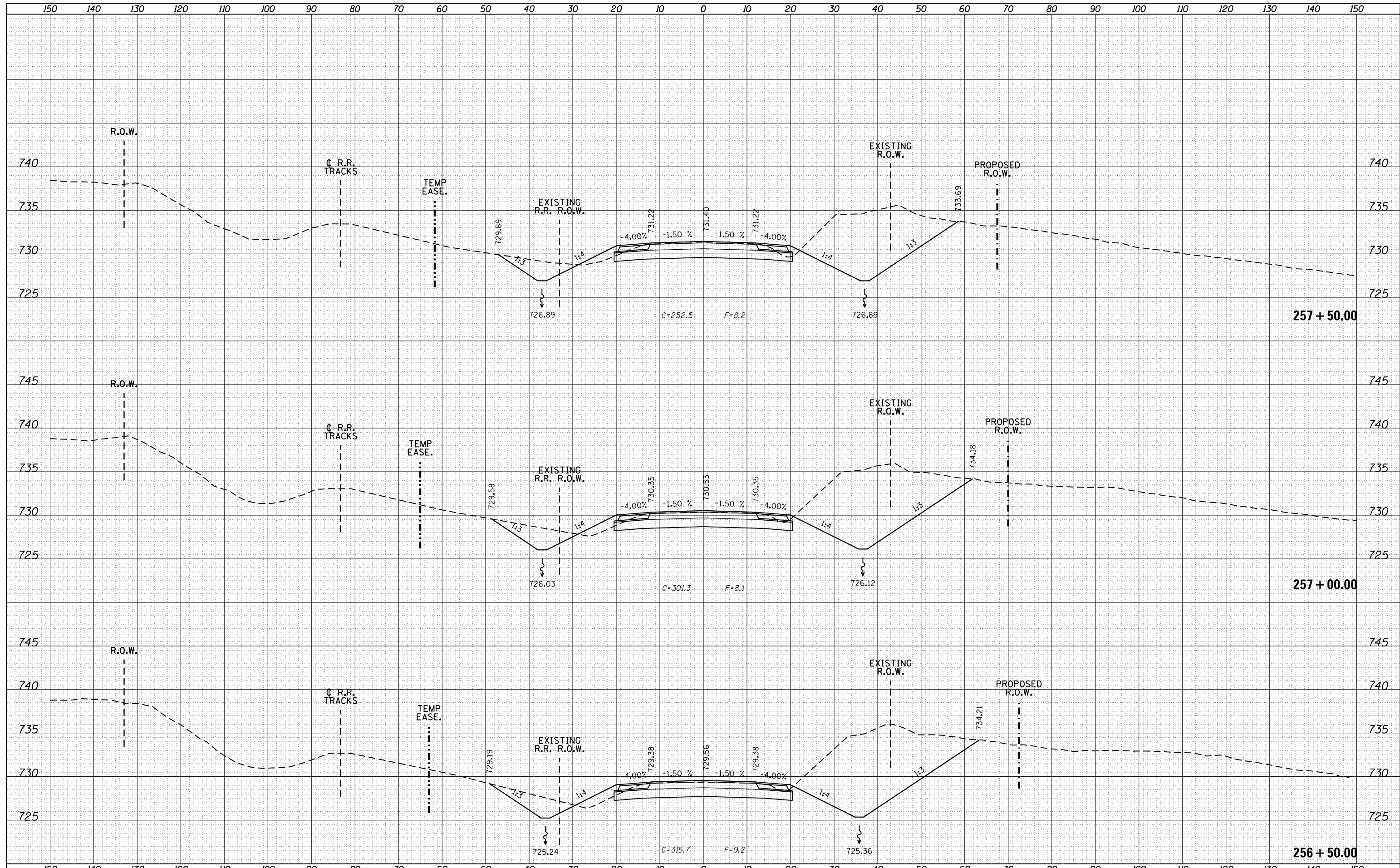
IL ROUTE 40 CROSS SECTIONS

SCALE: SHEET 154 OF 197 SHEETS STA. 255+00.00 TO STA. 256+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	154
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

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FILE NAME = F:\2012Jobs\2120237\Geopak\PL40_CrossSections\NEW.dgn
 USER NAME = Bryan.Hartmann
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 11/12/2019

DESIGNED -	REVISIED -
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CHECKED -	REVISIED -
DATE -	REVISIED -

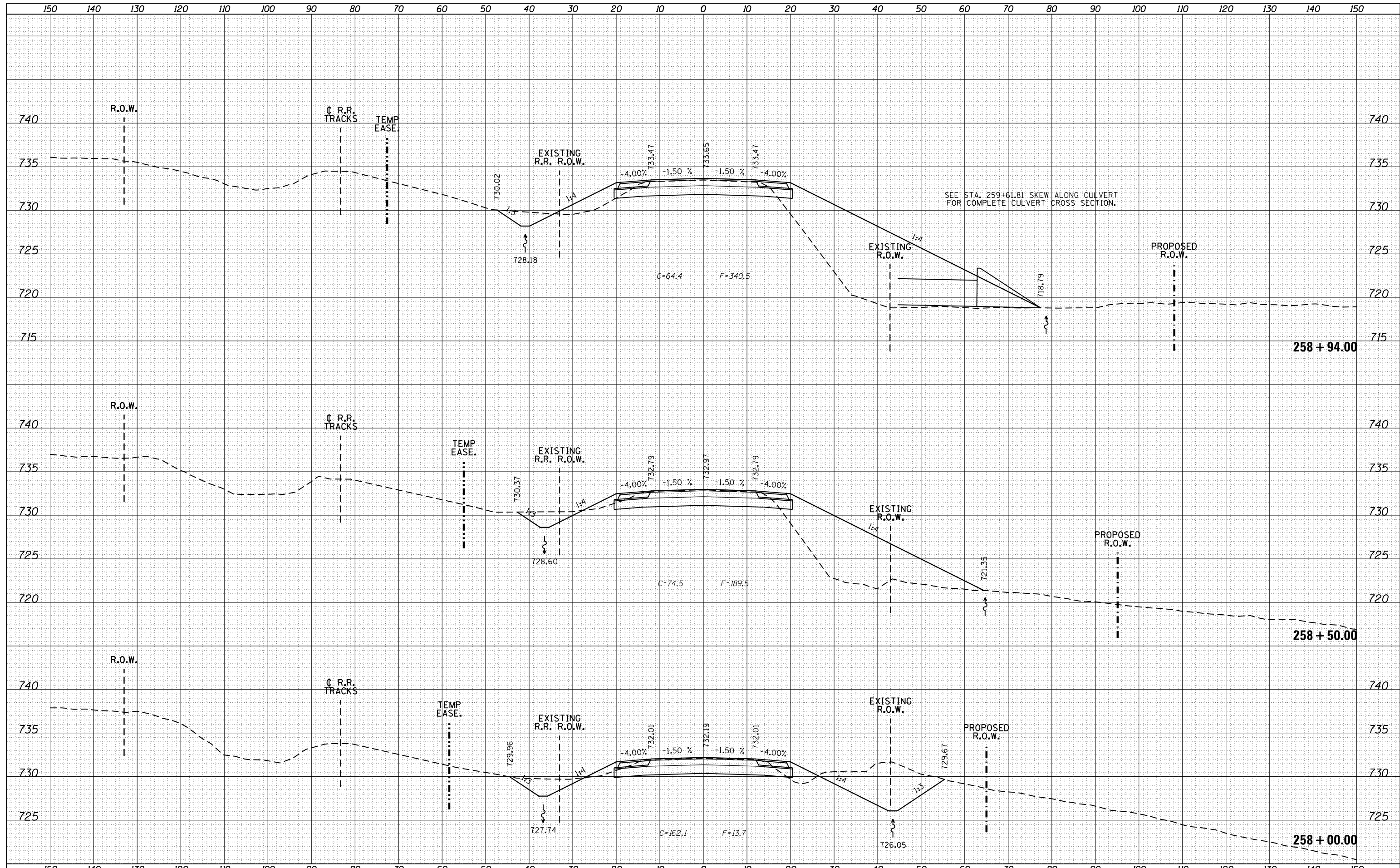
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 40 CROSS SECTIONS
 SCALE: SHEET 155 OF 197 SHEETS STA. 256+50.00 TO STA. 257+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	155
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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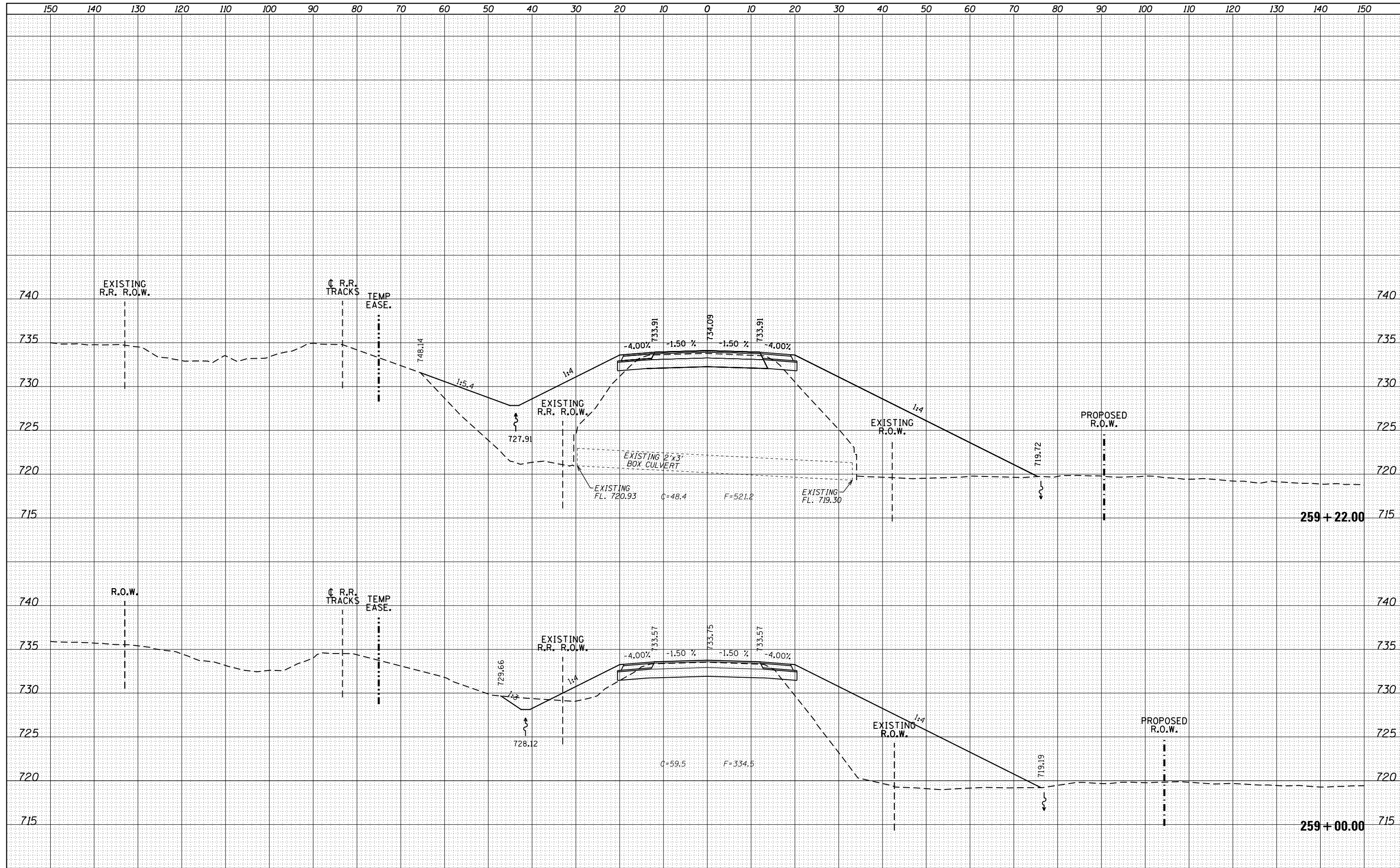
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL40_CrossSections\NEW.dgn		DRAWN -	REVISED -			1084	03-00083-00-BR	CARROLL	197	156
Default		CHECKED -	REVISED -			JOB *C-92-067-06				CONTRACT NO. 85645
		DATE -	REVISED -			SCALE:	SHEET 156	OF 197 SHEETS	STA. 258+00.00	TO STA. 258+94.00

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NOTE BOOK	
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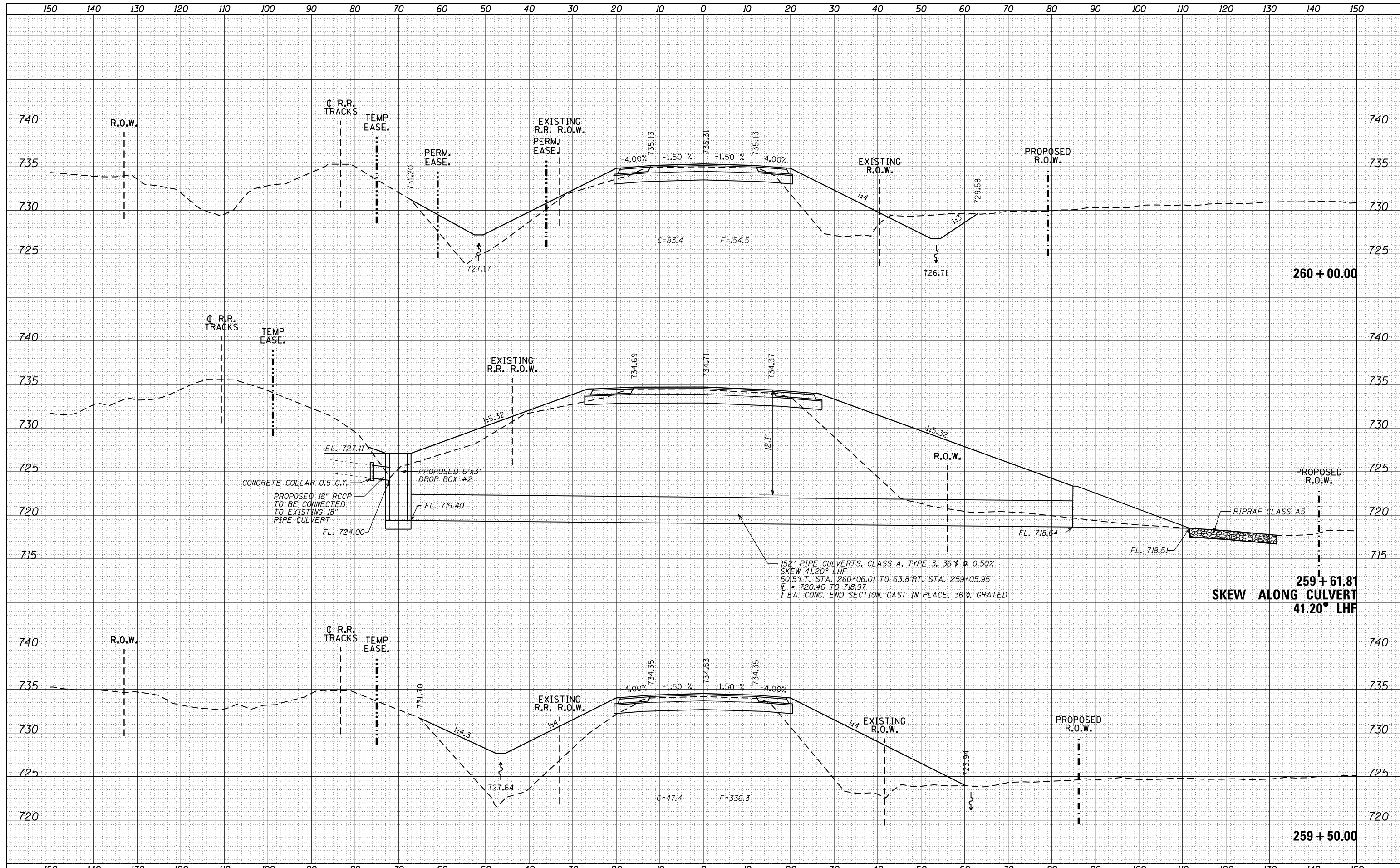
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PLIL40_CrossSections\NEW.dgn		DRAWN -	REVISED -		1084	03-00083-00-BR	CARROLL	197	157			
Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		JOB *C-92-067-06			CONTRACT NO. 85645				
	PLOT DATE = 11/12/2019	DATE -	REVISED -		SCALE:	SHEET 157	OF 197 SHEETS	STA. 259+00.00	TO STA. 259+22.00	ILLINOIS FED. AID PROJECT		

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FILE NAME = F:\2012\Jobs\2120237\Geopak\PL140_CrossSections\NEW.dgn
 USER NAME = Bryan.Hartmann
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 11/12/2019

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CHECKED	-	REVIS	-
DATE	-	REVIS	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

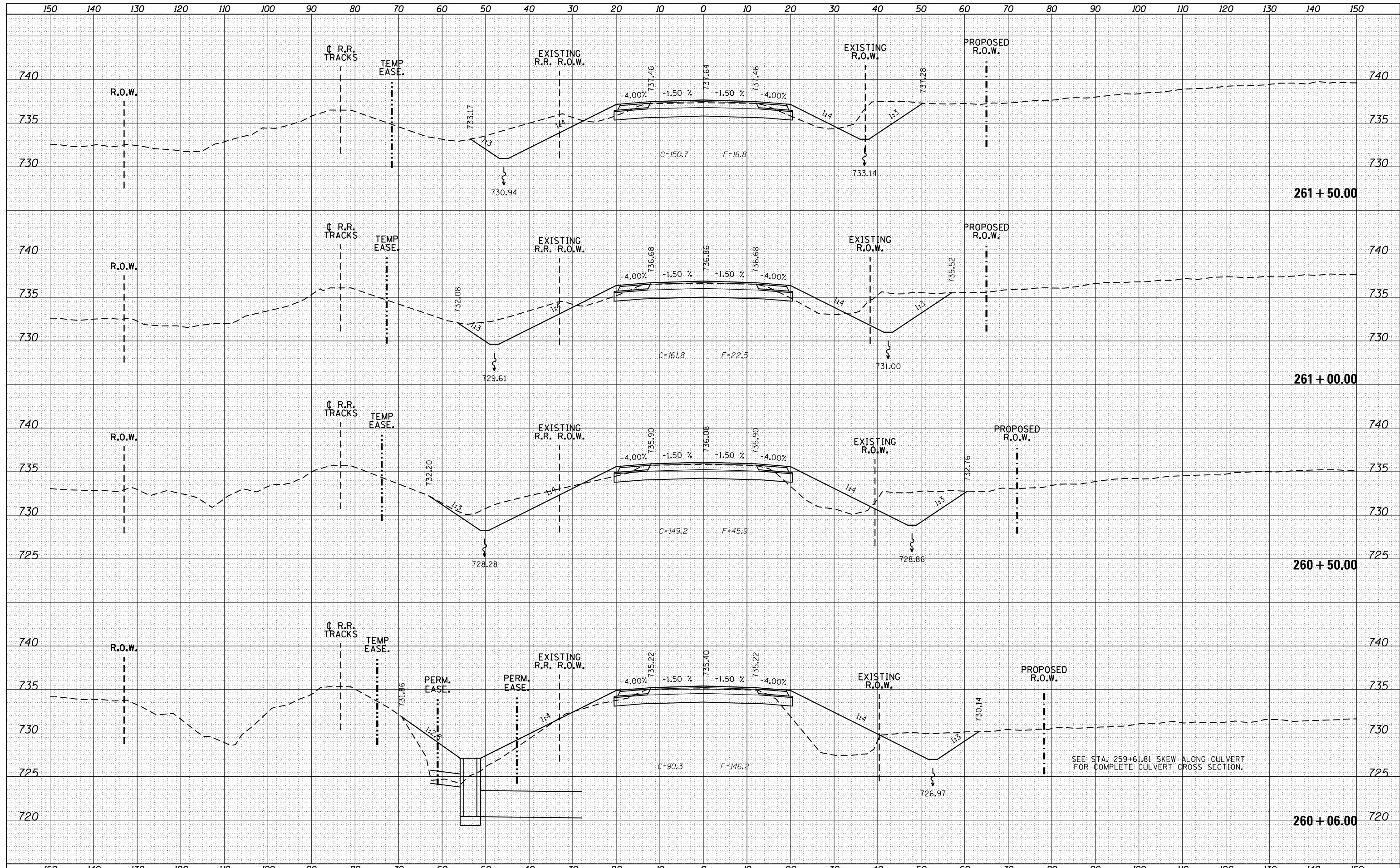
IL ROUTE 40 CROSS SECTIONS

SCALE: SHEET 158 OF 197 SHEETS STA. 259+50.00 TO STA. 260+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	158
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

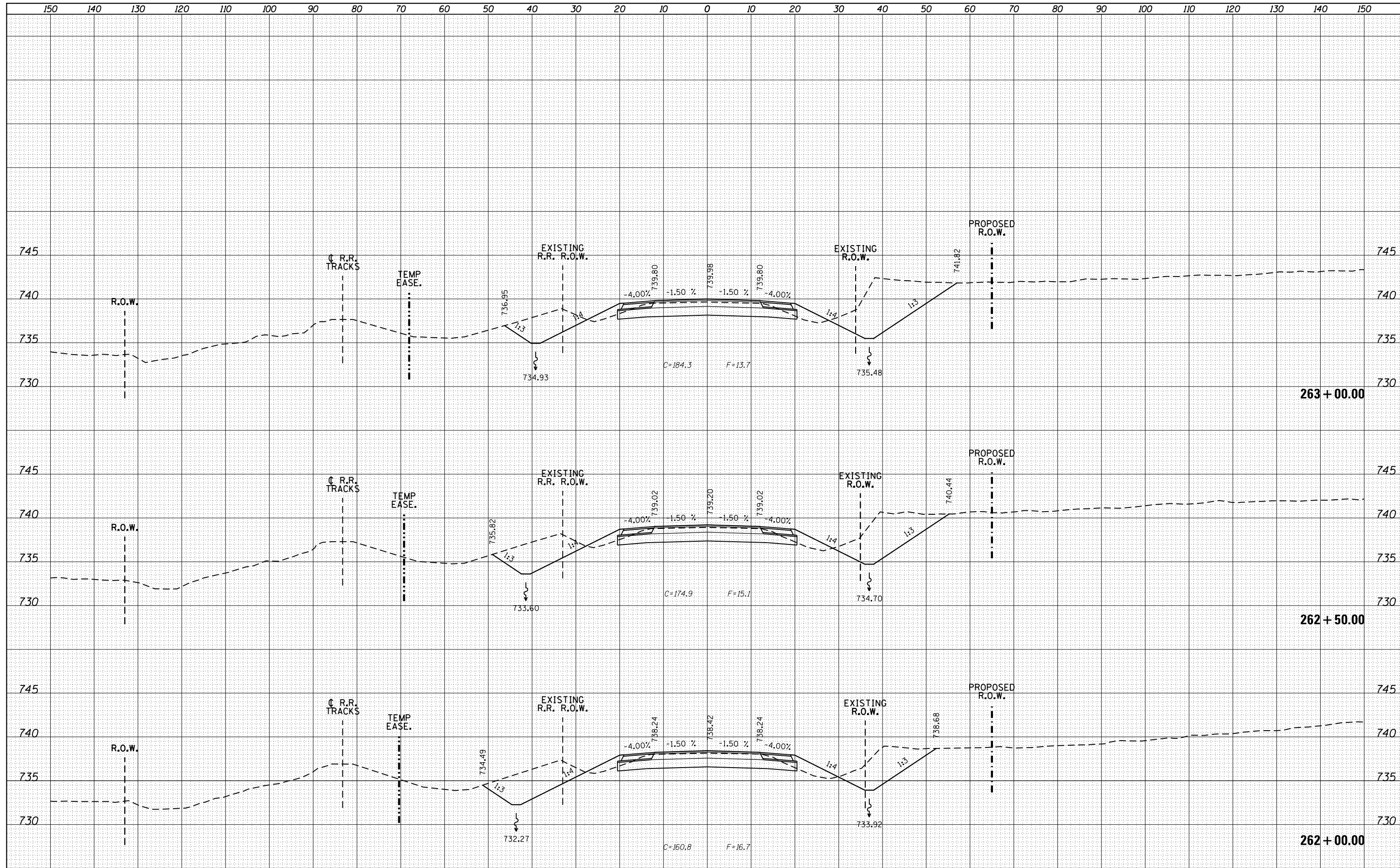
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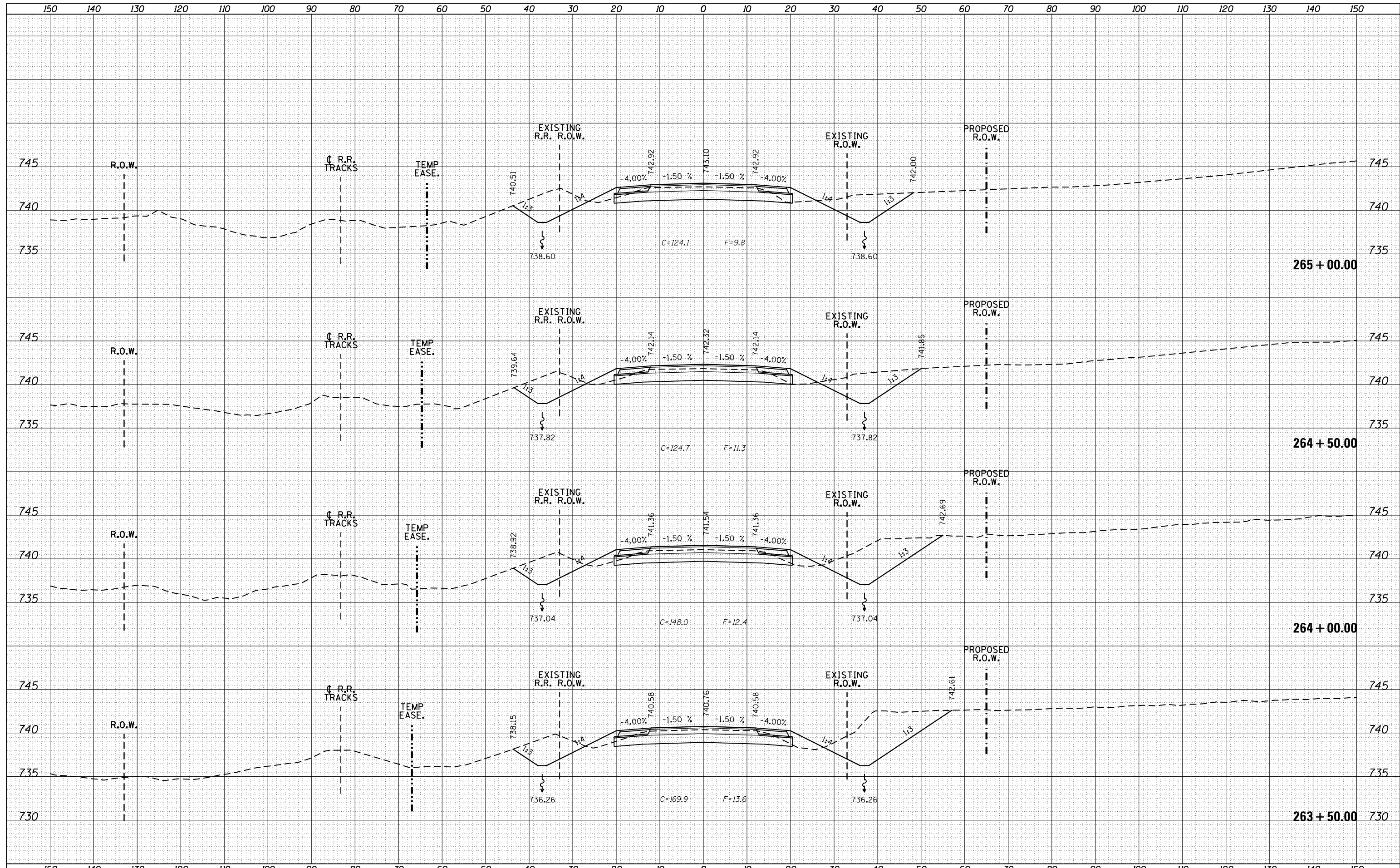
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NOTE BOOK	
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL40_CrossSections\NEW.dgn		DRAWN -	REVISED -			1084	03-00083-00-BR	CARROLL	197	160
Default		CHECKED -	REVISED -			JOB *C-92-067-06				CONTRACT NO. 85645
		DATE -	REVISED -			SCALE:	SHEET 160	OF 197 SHEETS	STA. 262+00.00	TO STA. 263+00.00

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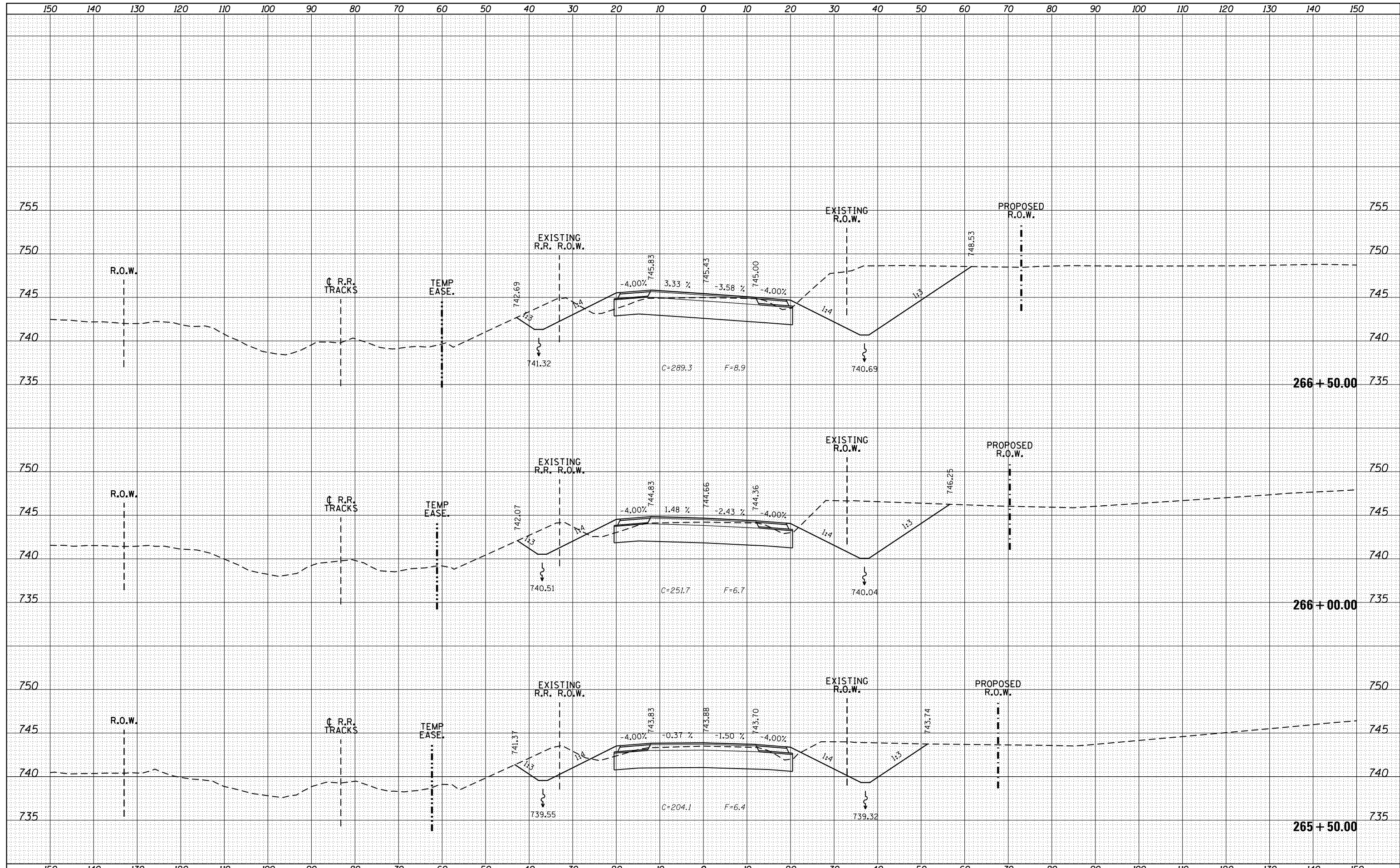
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL140_CrossSections\NEW.dgn		DRAWN -	REVISED -		1084	03-00083-00-BR	CARROLL	197	161			
Default		CHECKED -	REVISED -		JOB *C-92-067-06				CONTRACT NO. 85645			
		DATE -	REVISED -		SCALE:	SHEET 161	OF 197 SHEETS	STA. 263+50.00	TO STA. 265+00.00	ILLINOIS FED. AID PROJECT		

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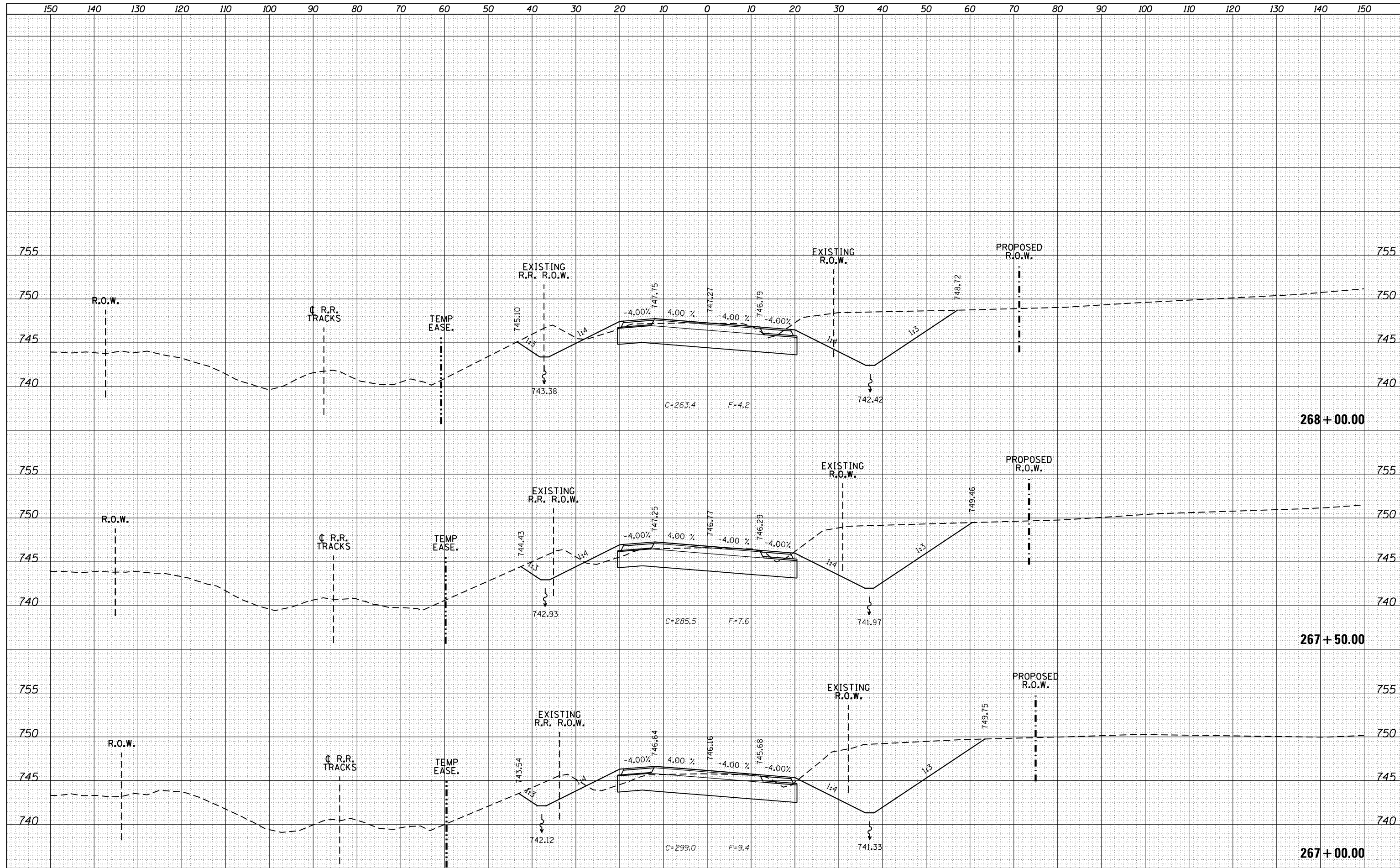
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL40_CrossSections\NEW.dgn		DRAWN -	REVISED -			1084	03-00083-00-BR	CARROLL	197	162
Default		CHECKED -	REVISED -			JOB *C-92-067-06				CONTRACT NO. 85645
		DATE -	REVISED -			SCALE:	SHEET 162	OF 197 SHEETS	STA. 265+50.00	TO STA. 266+50.00

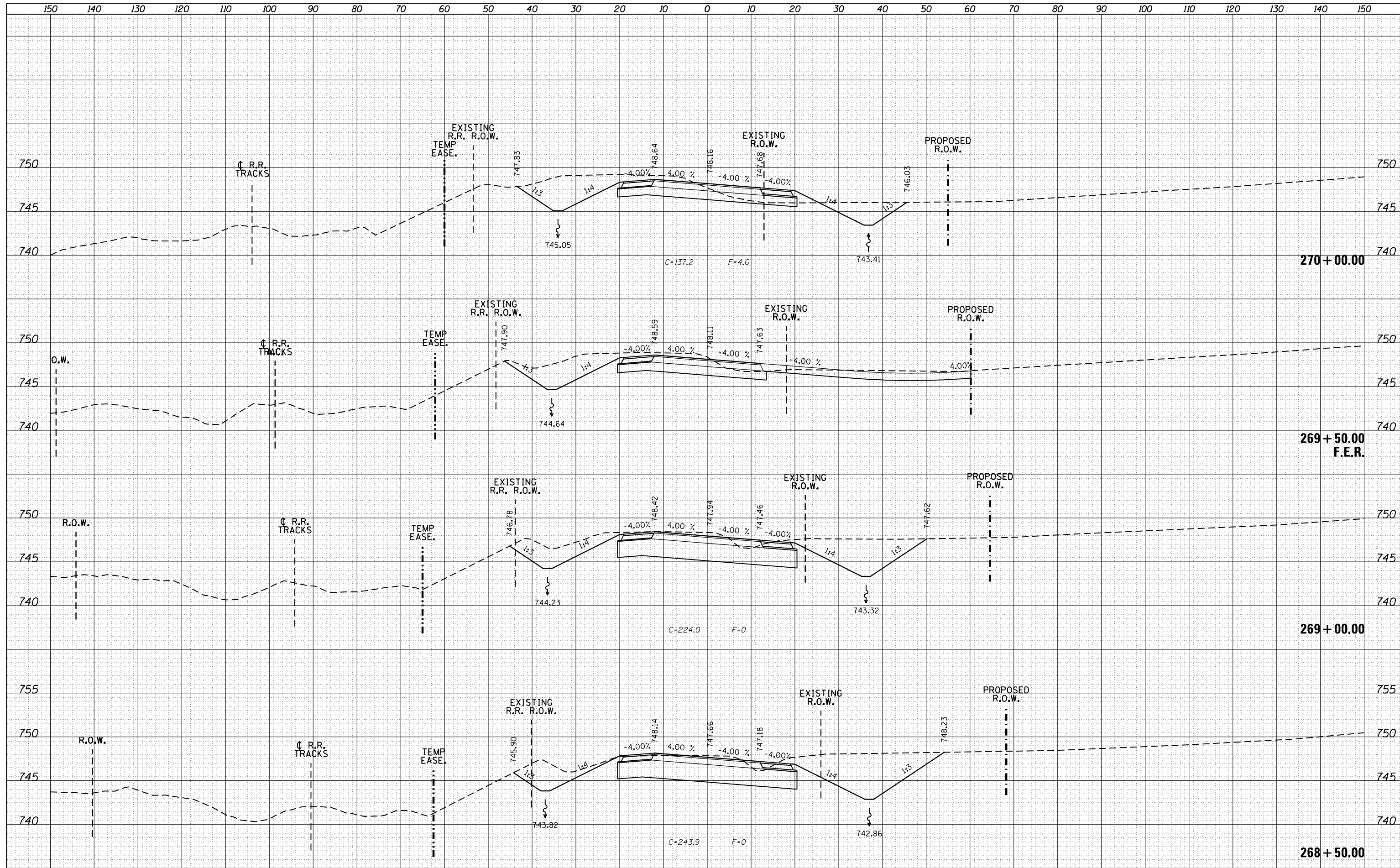
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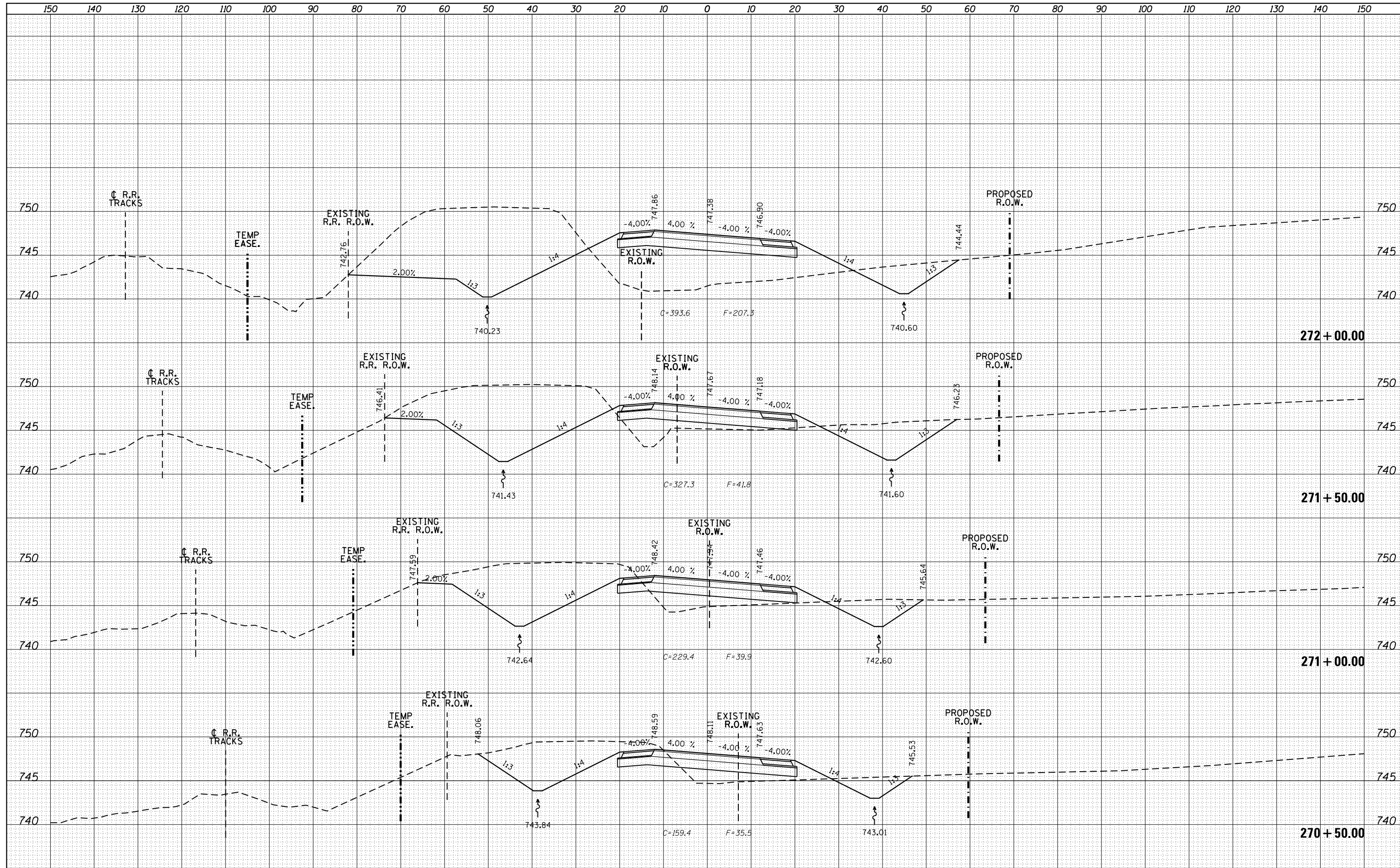
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL140_CrossSections\NEW.dgn		DRAWN -	REVISED -			1084	03-00083-00-BR	CARROLL	197	164
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -			JOB *C-92-067-06		CONTRACT NO. 85645		
PLOT DATE = 11/12/2019		DATE -	REVISED -			SCALE:	SHEET 164	OF 197 SHEETS	STA. 268+50.00	TO STA. 270+00.00

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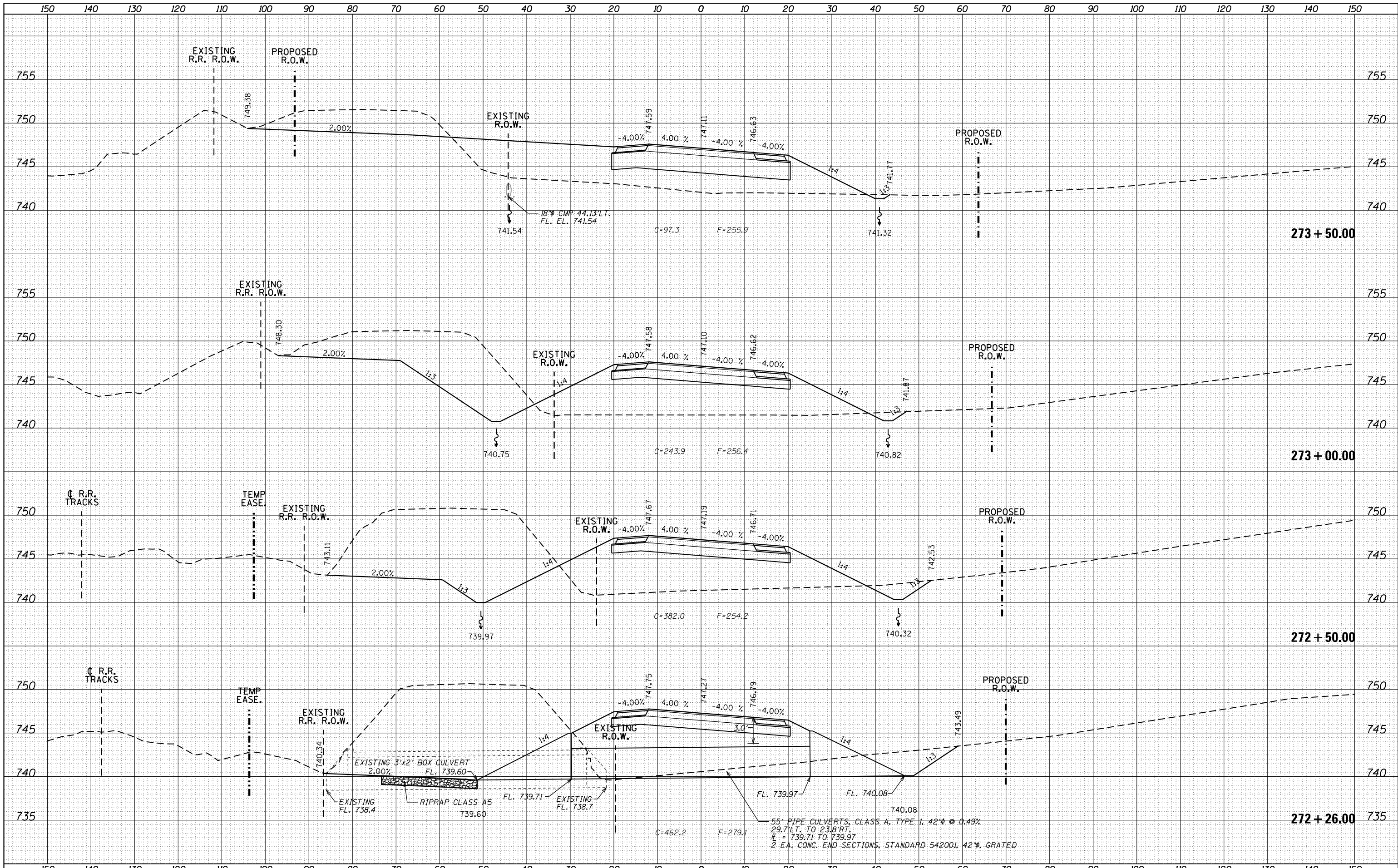


FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 40 CROSS SECTIONS			
SCALE:	SHEET 165	OF 197 SHEETS	STA. 270+50.00 TO STA. 272+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	165
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

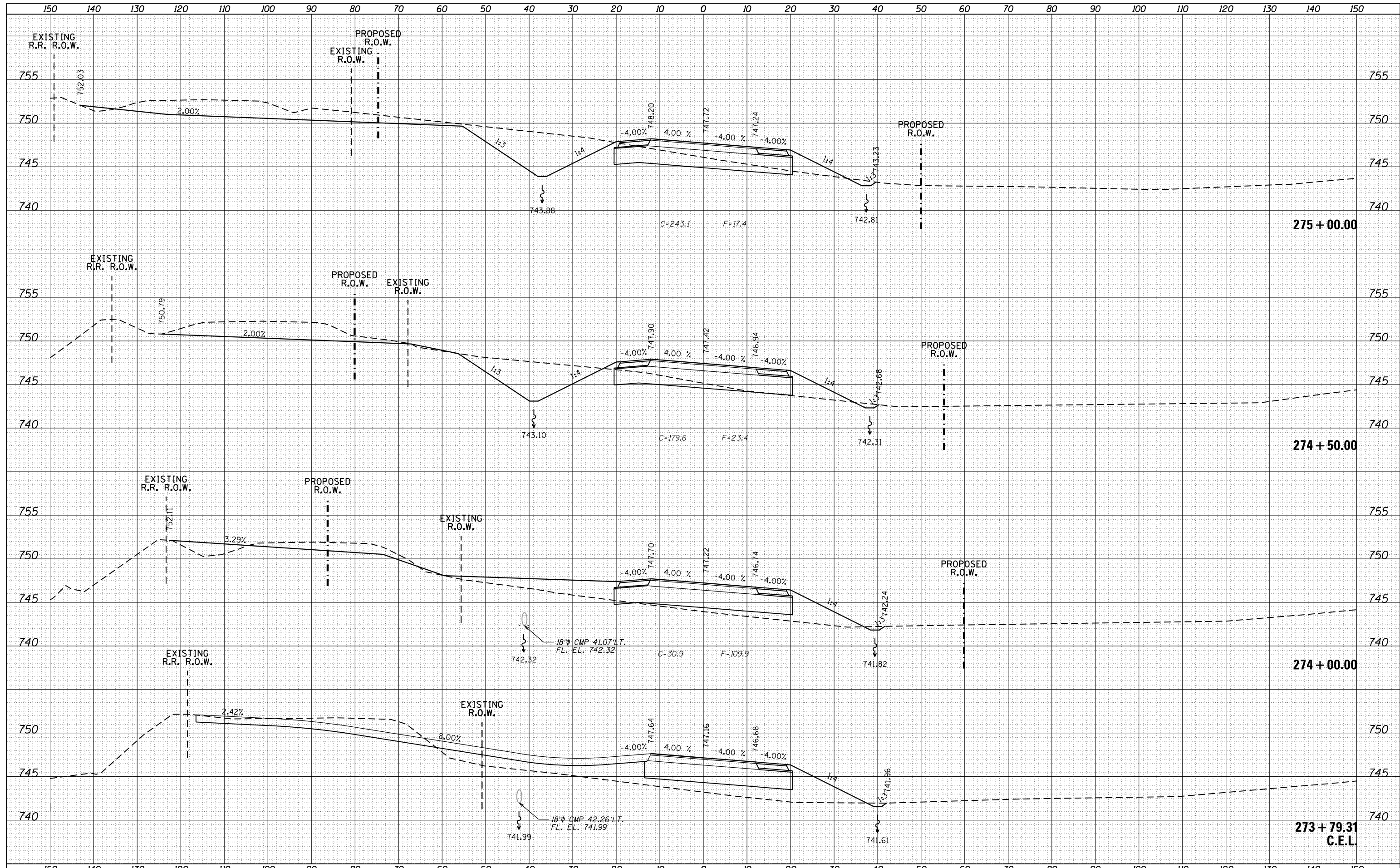


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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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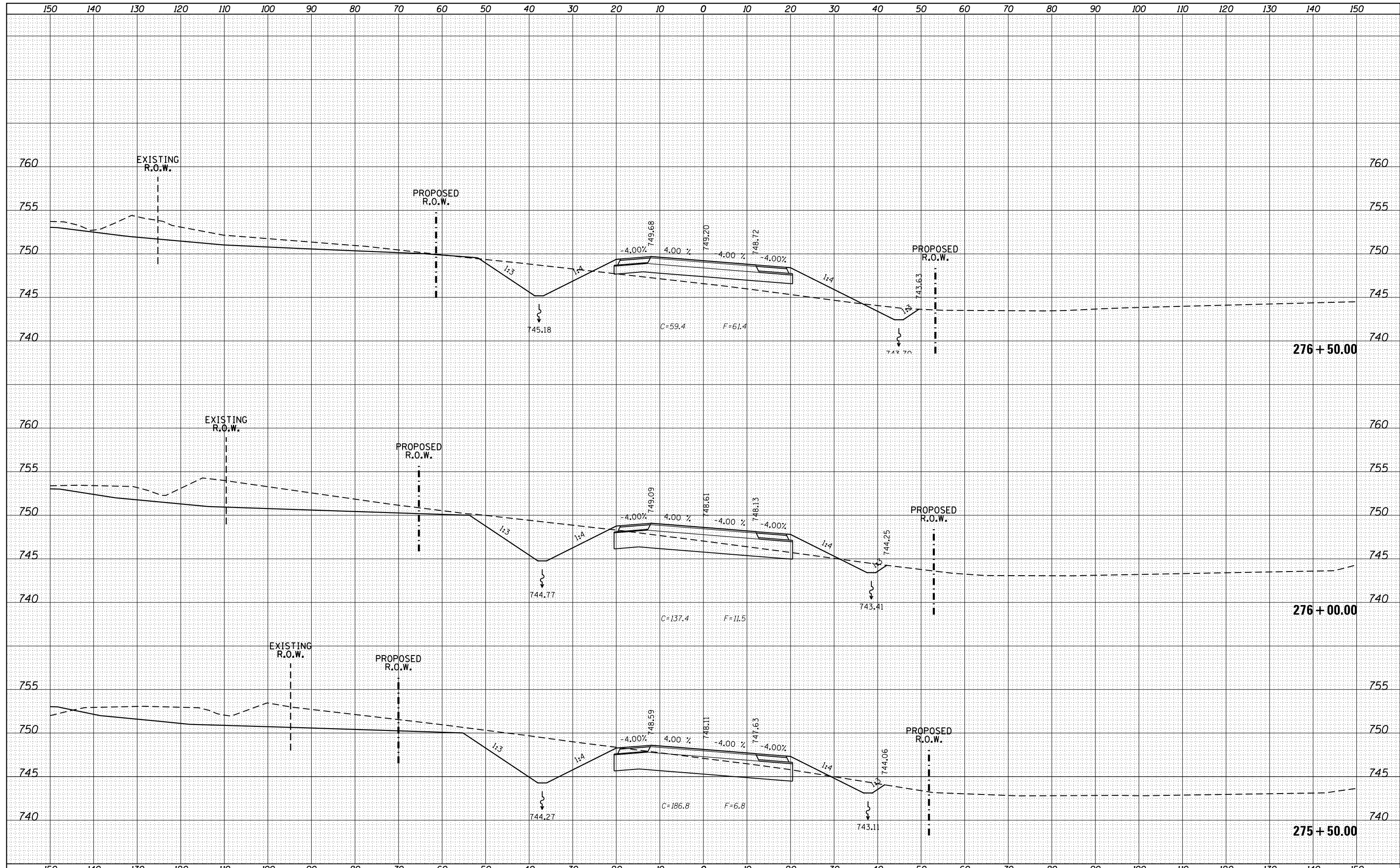
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 40 CROSS SECTIONS			
SCALE:	SHEET 167	OF 197 SHEETS	STA. 273+79.31 TO STA. 275+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	167
JOB *C-92-067-06	CONTRACT NO. 85645			
ILLINOIS FED. AID PROJECT				

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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

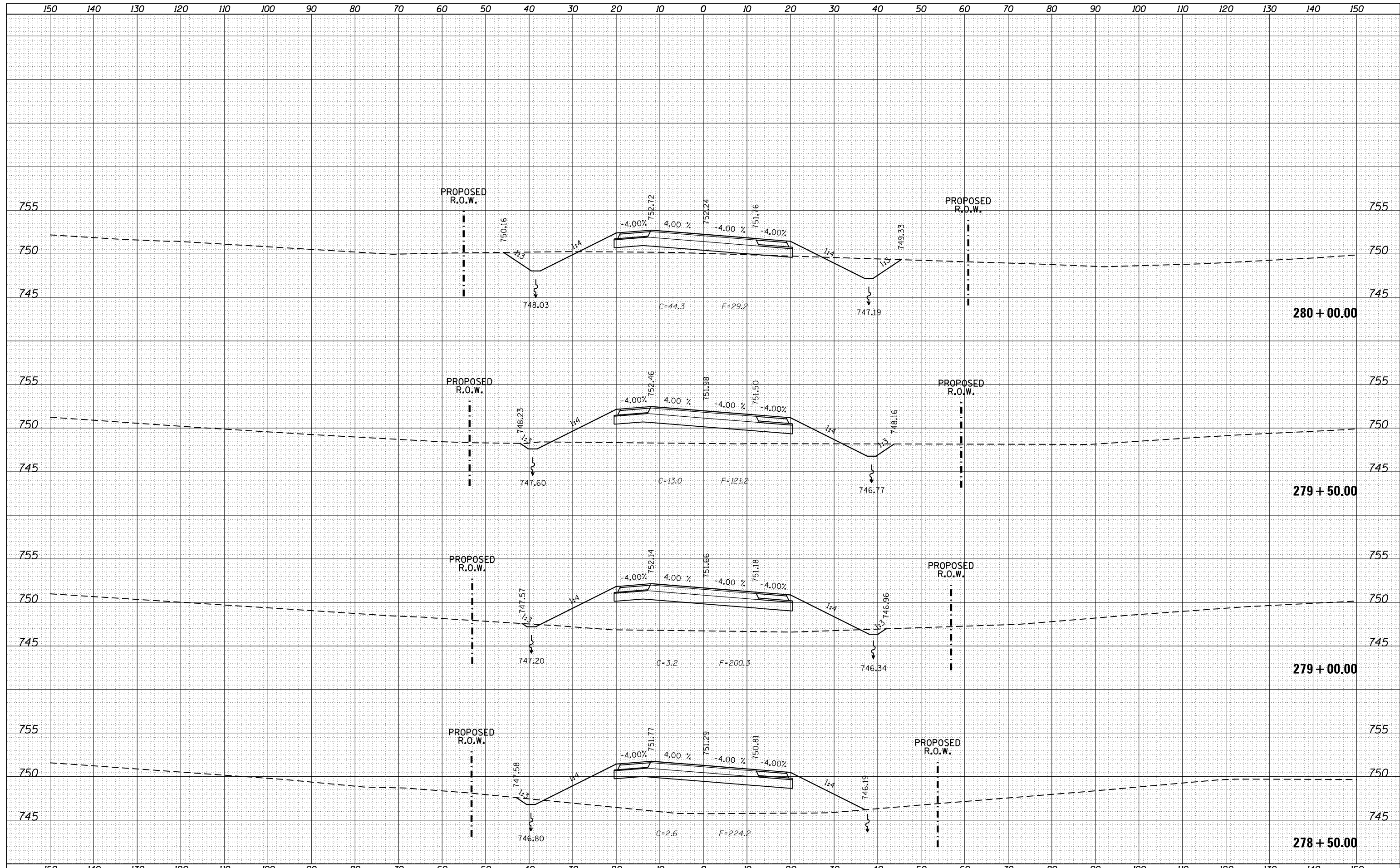
IL ROUTE 40 CROSS SECTIONS

SCALE: SHEET 168 OF 197 SHEETS STA. 275+50.00 TO STA. 276+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	168
JOB *C-92-067-06	CONTRACT NO. 85645			
ILLINOIS FED. AID PROJECT				

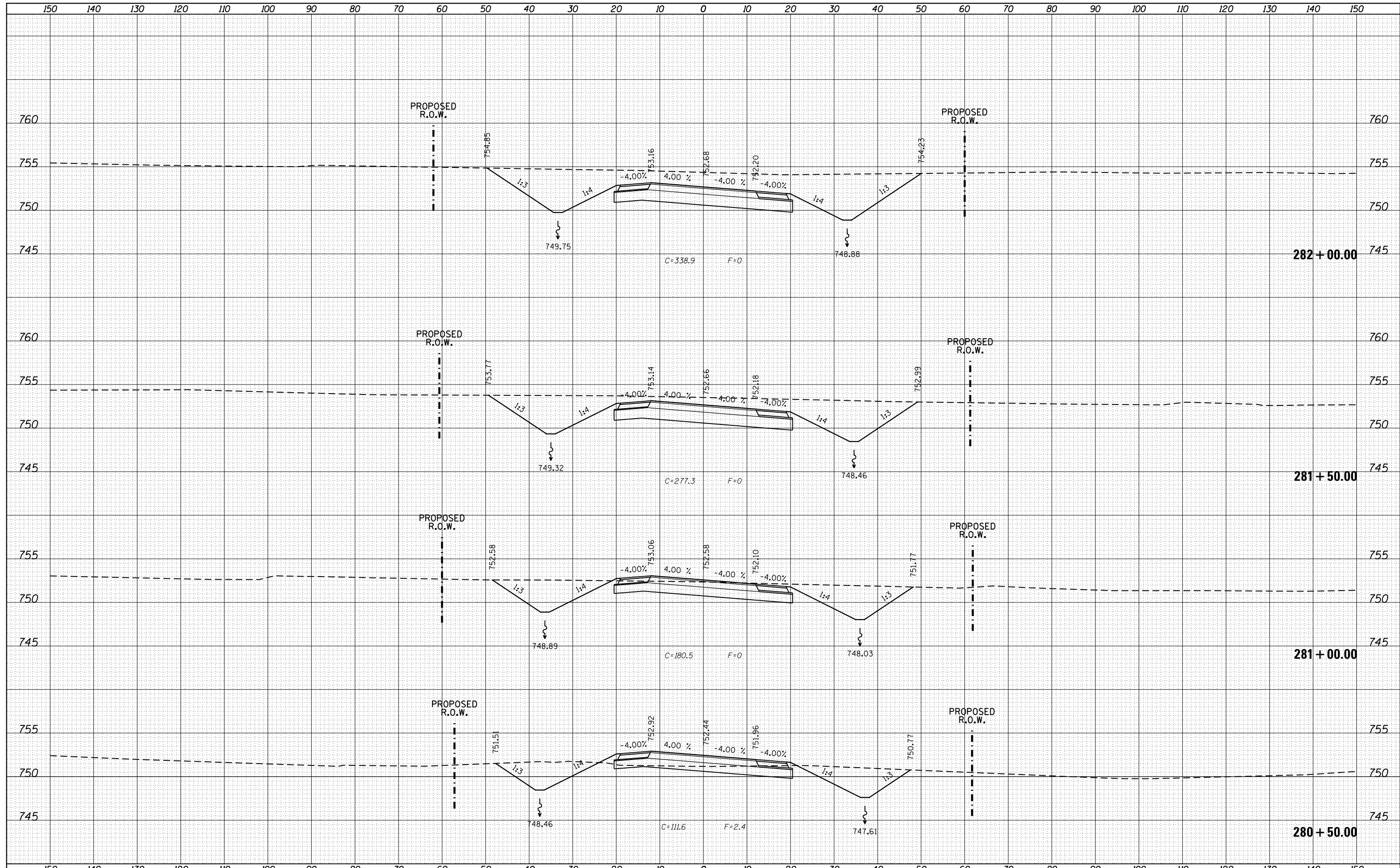
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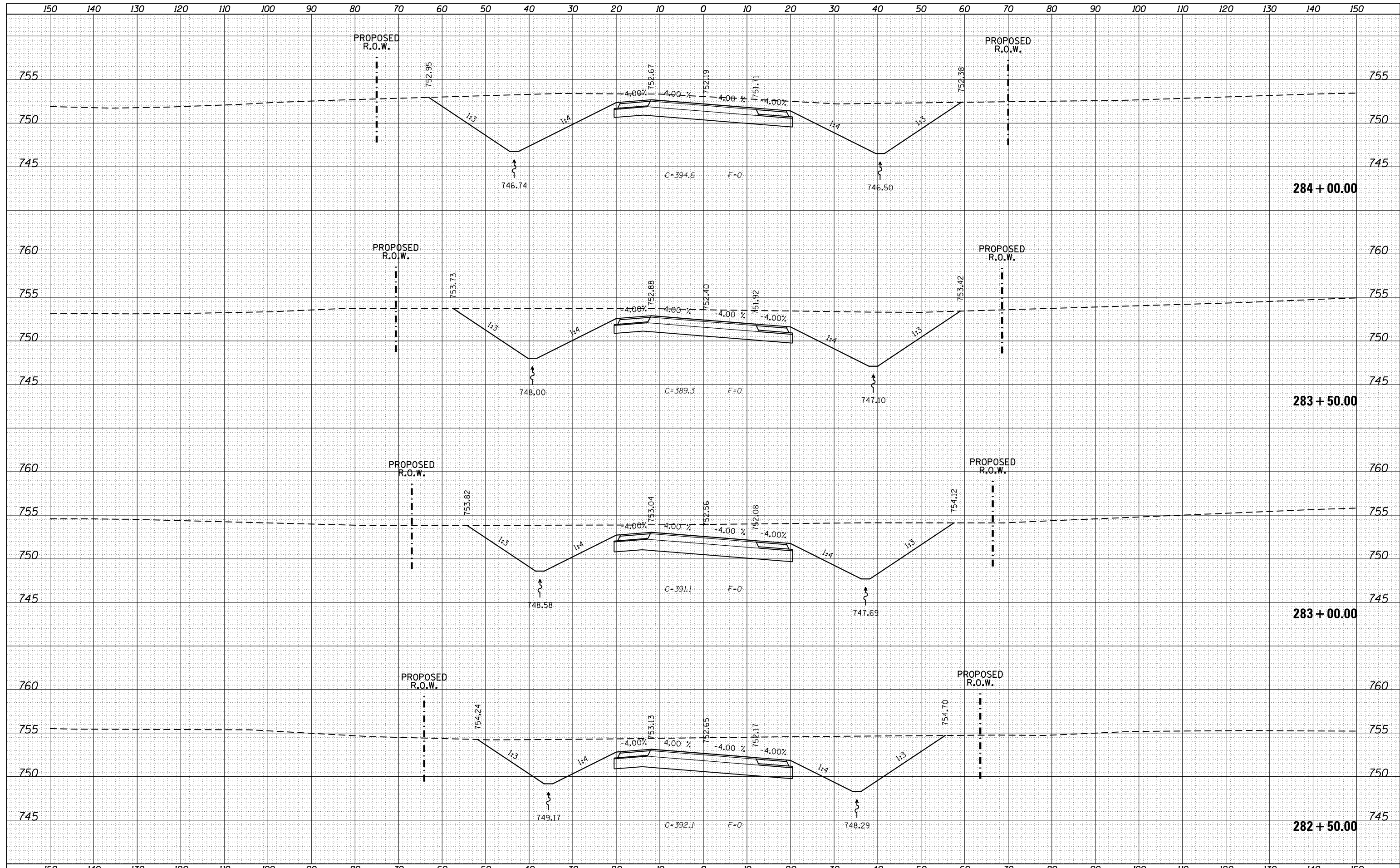
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NOTE BOOK	
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -
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	PLOT DATE = 11/12/2019		

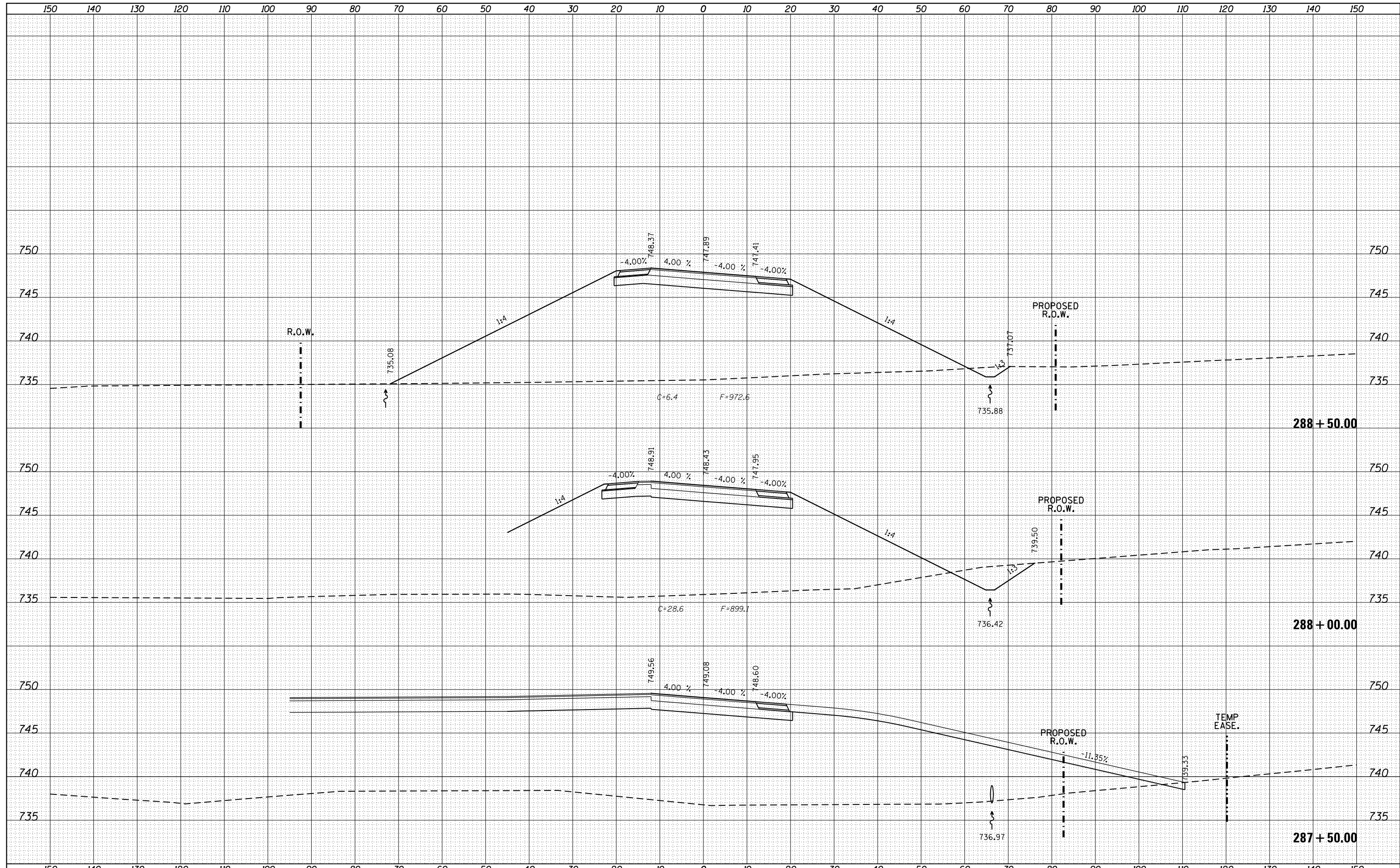
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 40 CROSS SECTIONS	
SCALE:	SHEET 172 OF 197 SHEETS STA. 282+50.00 TO STA. 284+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	172
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

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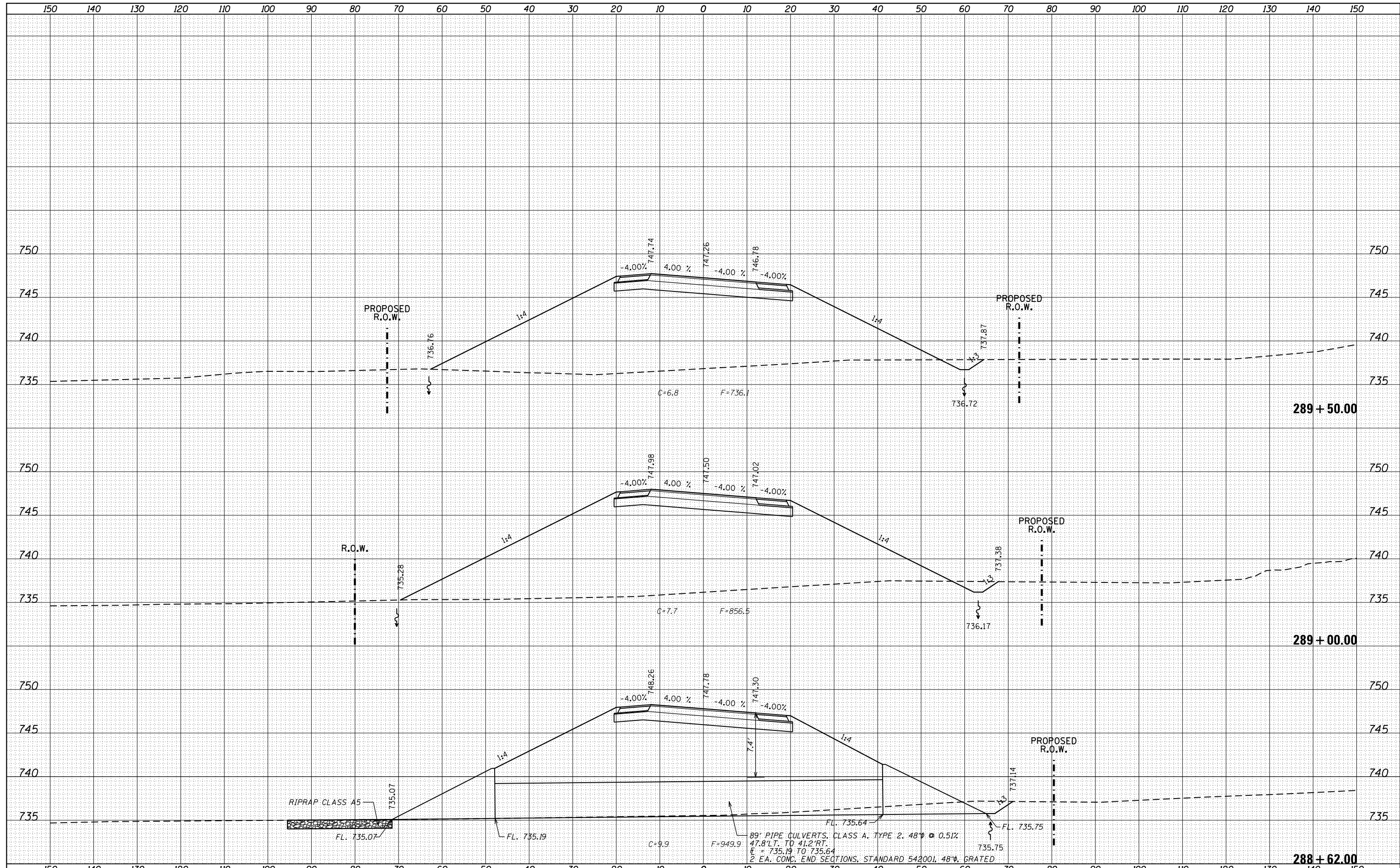
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NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME = F:\2012\Jobs\2120237\Geopak\PL40_CrossSections\NEW.dgn	USER NAME = Bryan.Hartmann	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS SCALE: SHEET 175 OF 197 SHEETS STA. 287+50.00 TO STA. 288+50.00			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISD -	1084					03-00083-00-BR	CARROLL	197	175	
PLOT DATE = 11/12/2019	DATE -	REVISD -	JOB *C-92-067-06					CONTRACT NO. 85645				
ILLINOIS FED. AID PROJECT												

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

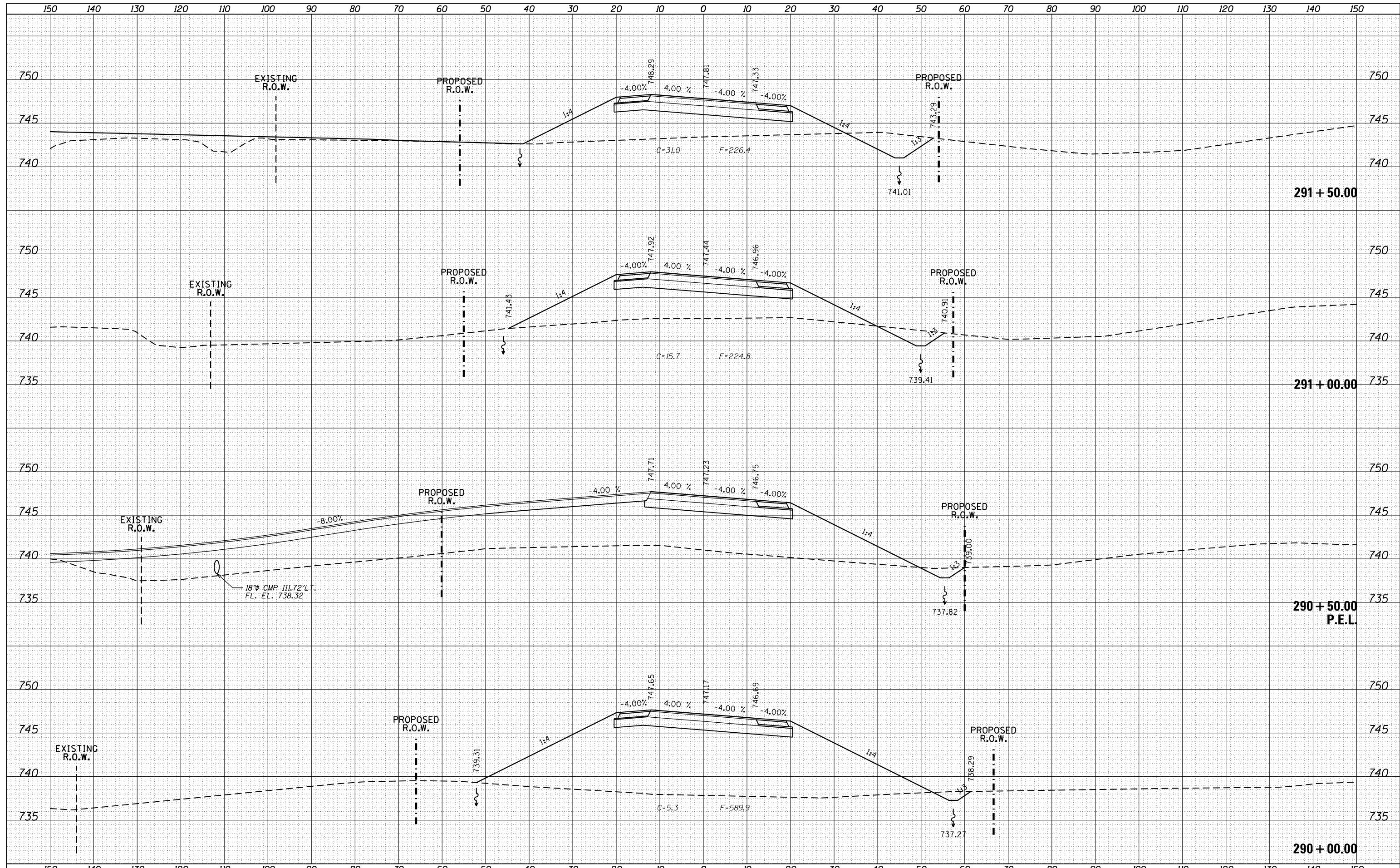
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PIL40_CrossSections\NEW.dgn	DRAWN -	REVISD -	1084			03-00083-00-BR	CARROLL	197	176	
Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISD -			JOB *C-92-067-06	CONTRACT NO. 85645			
	PLOT DATE = 11/12/2019	DATE -	REVISD -			SCALE: SHEET 176 OF 197 SHEETS STA. 288+62.00 TO STA. 289+50.00		ILLINOIS FED. AID PROJECT		

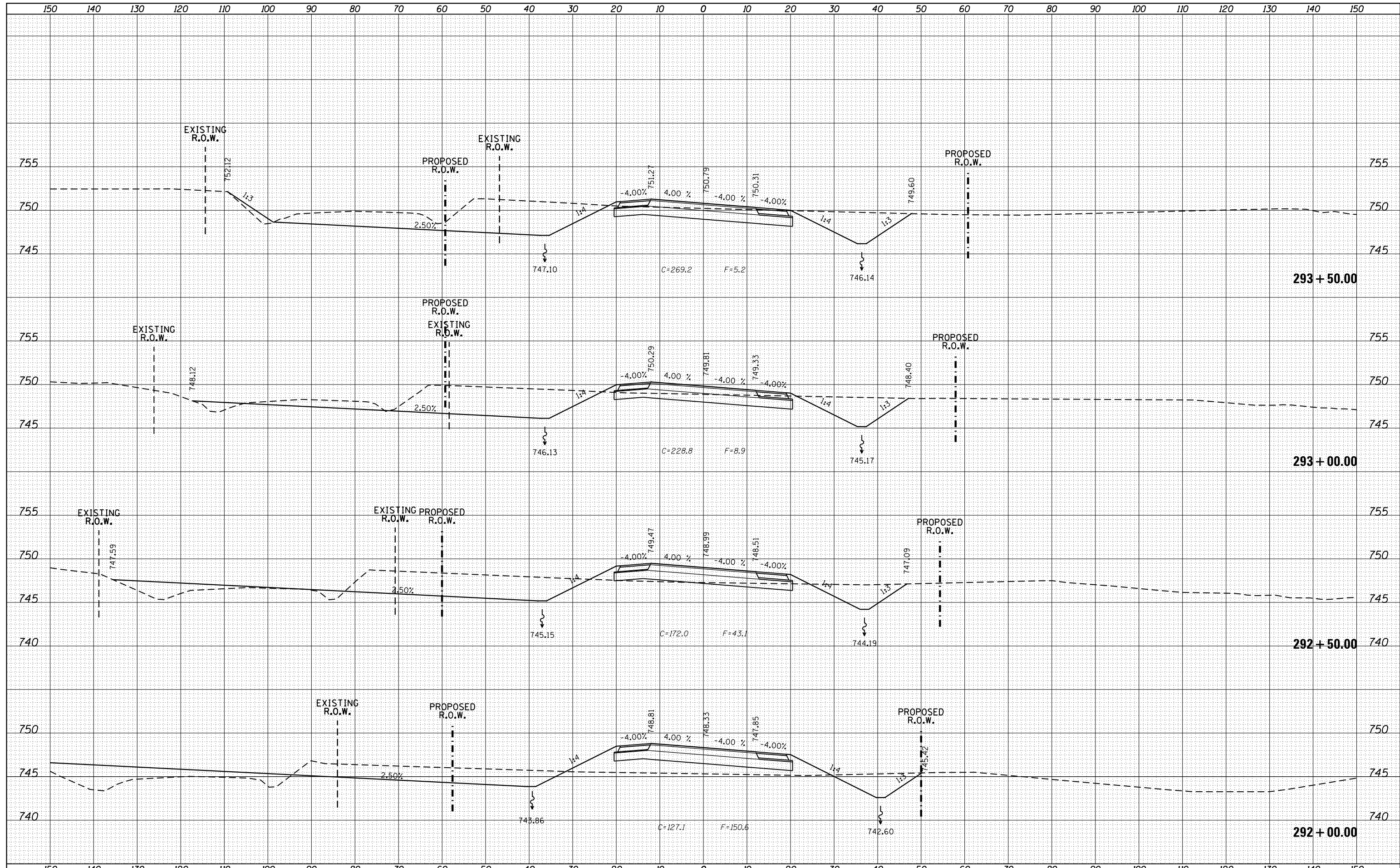
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BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME = F:\2012\Jobs\2120237\Geopak\PL140_CrossSections\NEW.dgn
 USER NAME = Bryan.Hartmann
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 11/12/2019

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 40 CROSS SECTIONS

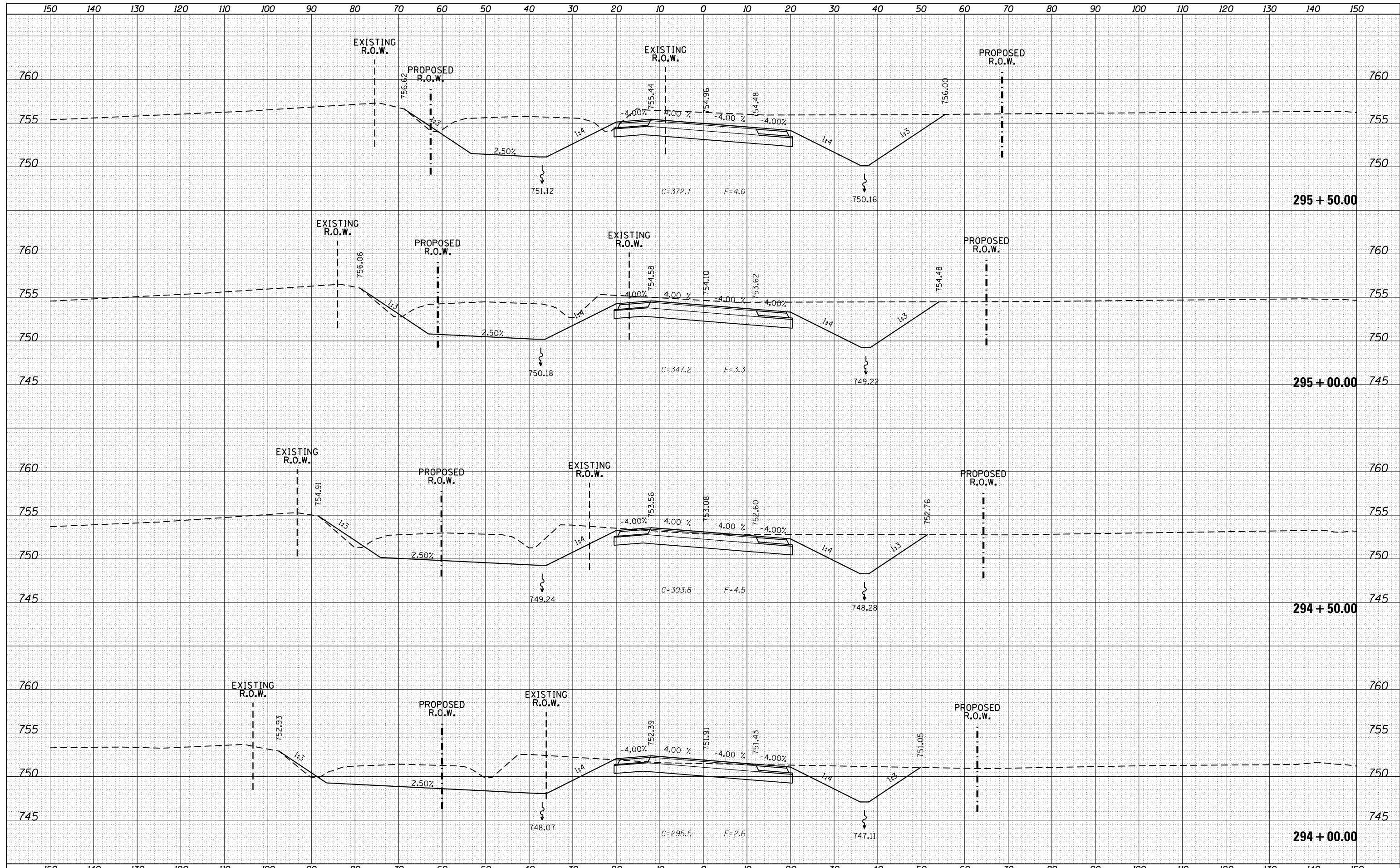
SCALE: SHEET 178 OF 197 SHEETS STA. 292+00.00 TO STA. 293+50.00

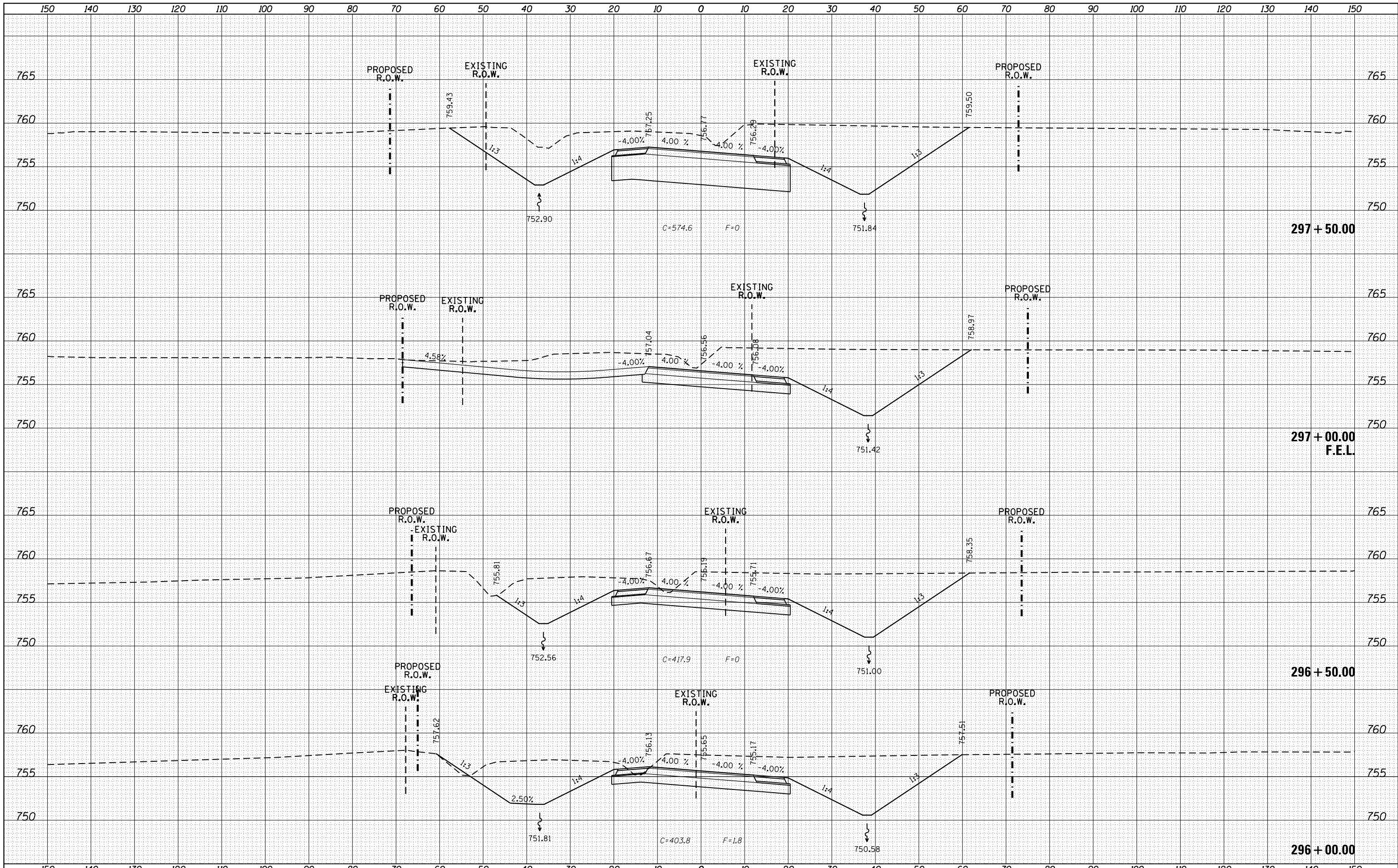
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	178
JOB *C-92-067-06			CONTRACT NO. 85645	

ILLINOIS FED. AID PROJECT

DATE	
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FINAL SURVEY	
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AREAS	
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BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	





DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
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NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
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NO.	

FILE NAME = F:\2012Jobs\2120237\Geopak\PIL40_CrossSections\NEW.dgn
 USER NAME = Bryan.Hartmann
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 11/12/2019

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

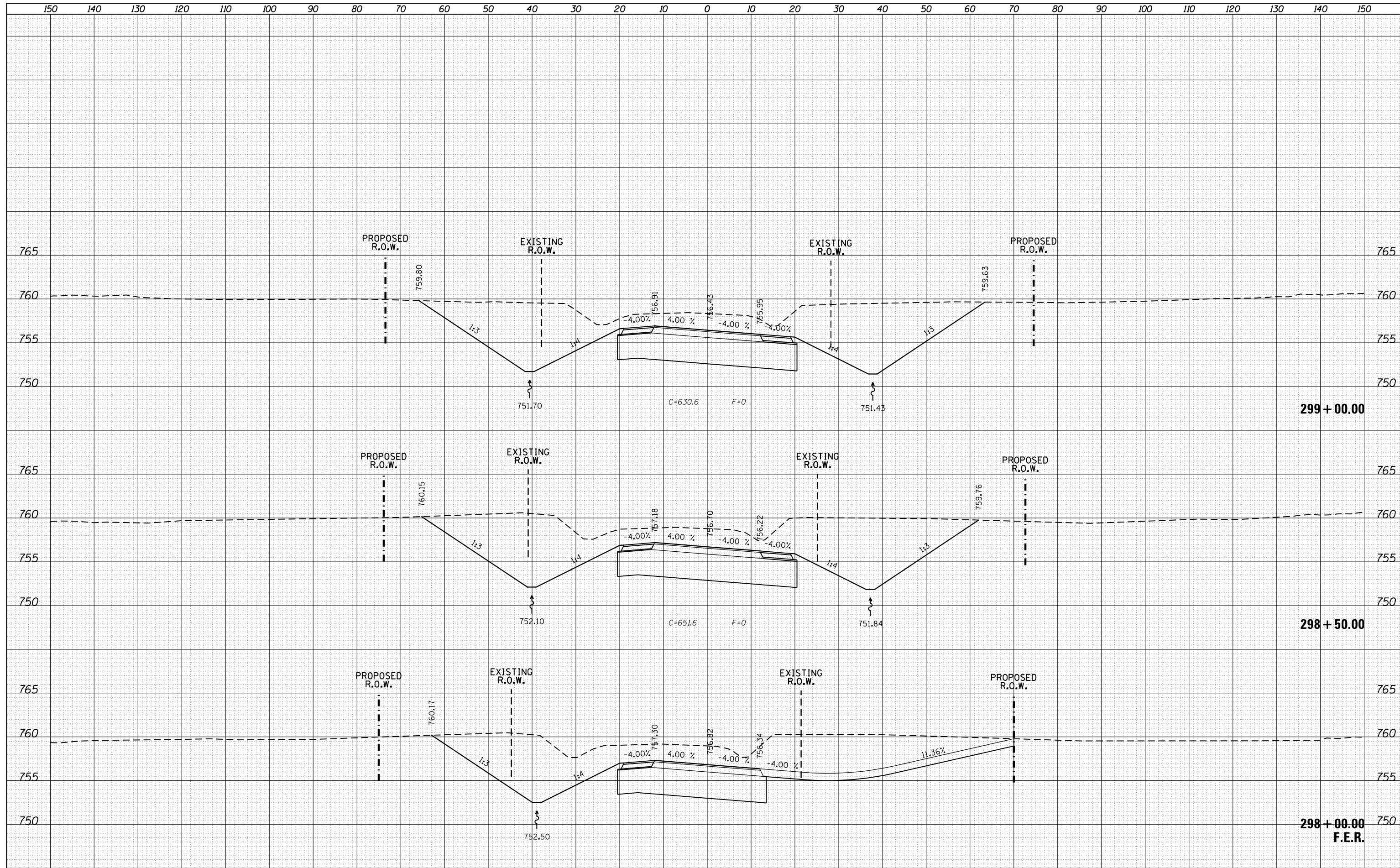
IL ROUTE 40 CROSS SECTIONS

SCALE: SHEET 180 OF 197 SHEETS STA. 296+00.00 TO STA. 297+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	180
JOB *C-92-067-06			CONTRACT NO. 85645	
ILLINOIS FED. AID PROJECT				

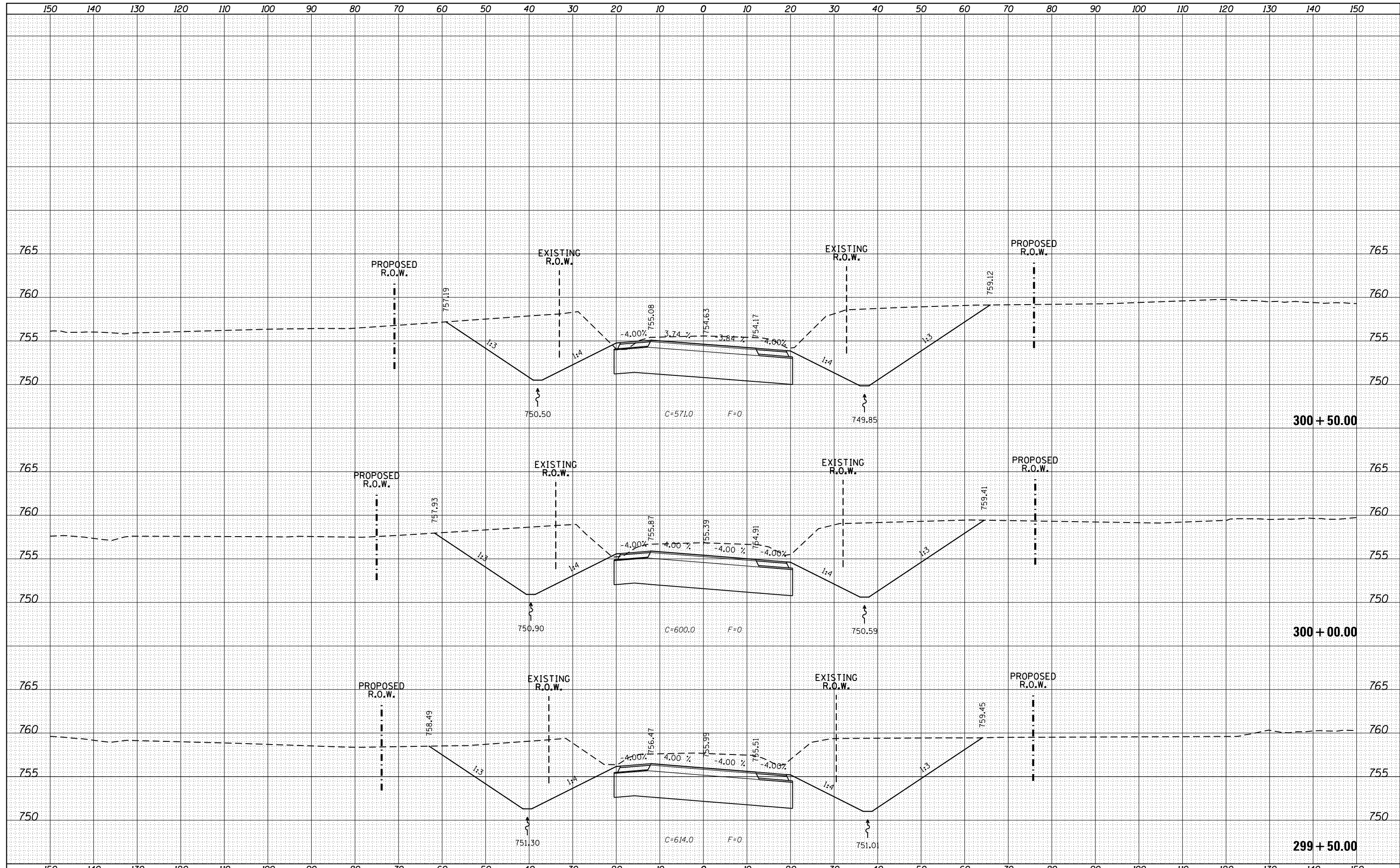
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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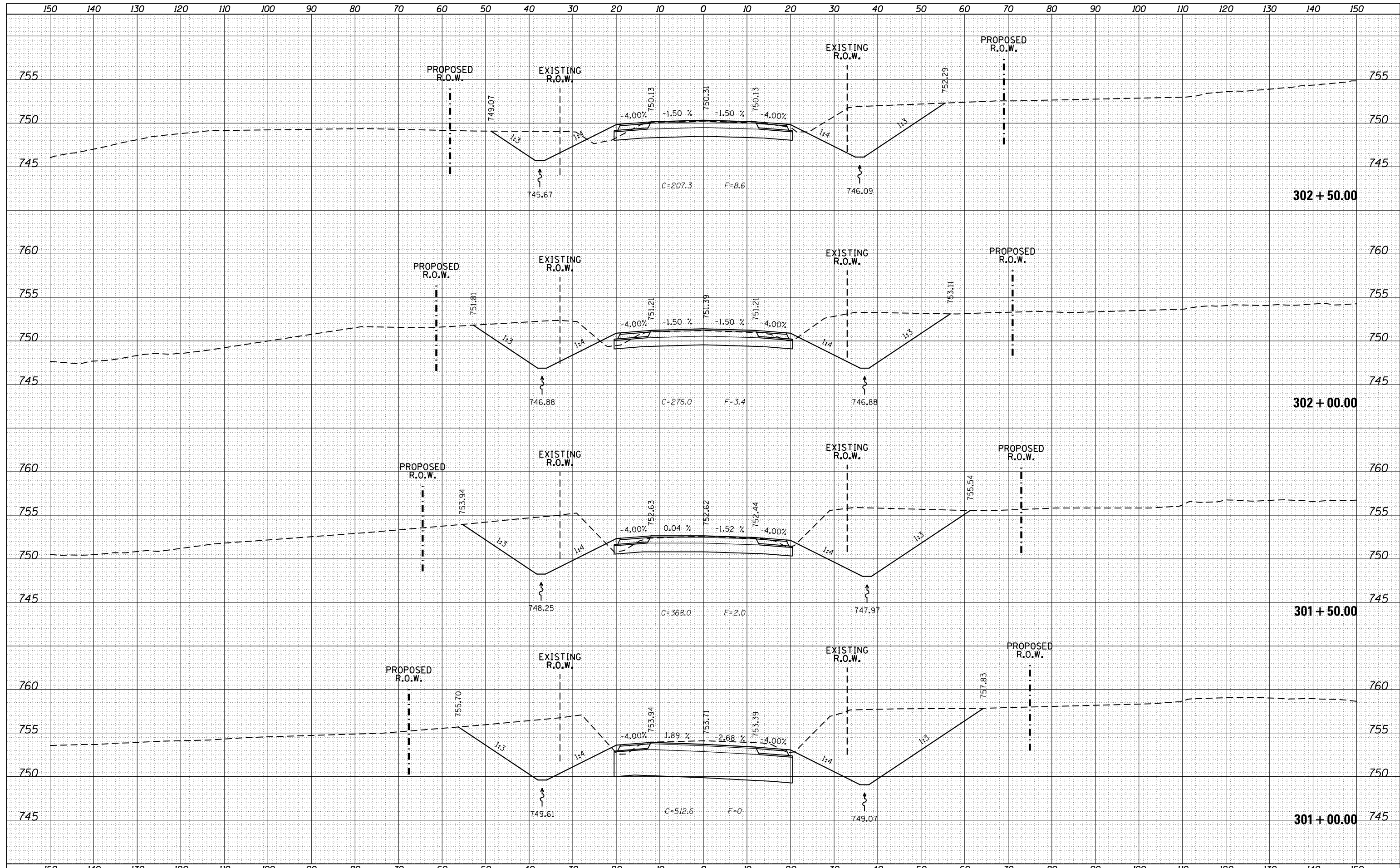
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL140_CrossSections\NEW.dgn		DRAWN -	REVISED -			1084	03-00083-00-BR	CARROLL	197	182
Default		CHECKED -	REVISED -			JOB *C-92-067-06				CONTRACT NO. 85645
		DATE -	REVISED -			SCALE:	SHEET 182	OF 197 SHEETS	STA. 299+50.00	TO STA. 300+50.00

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

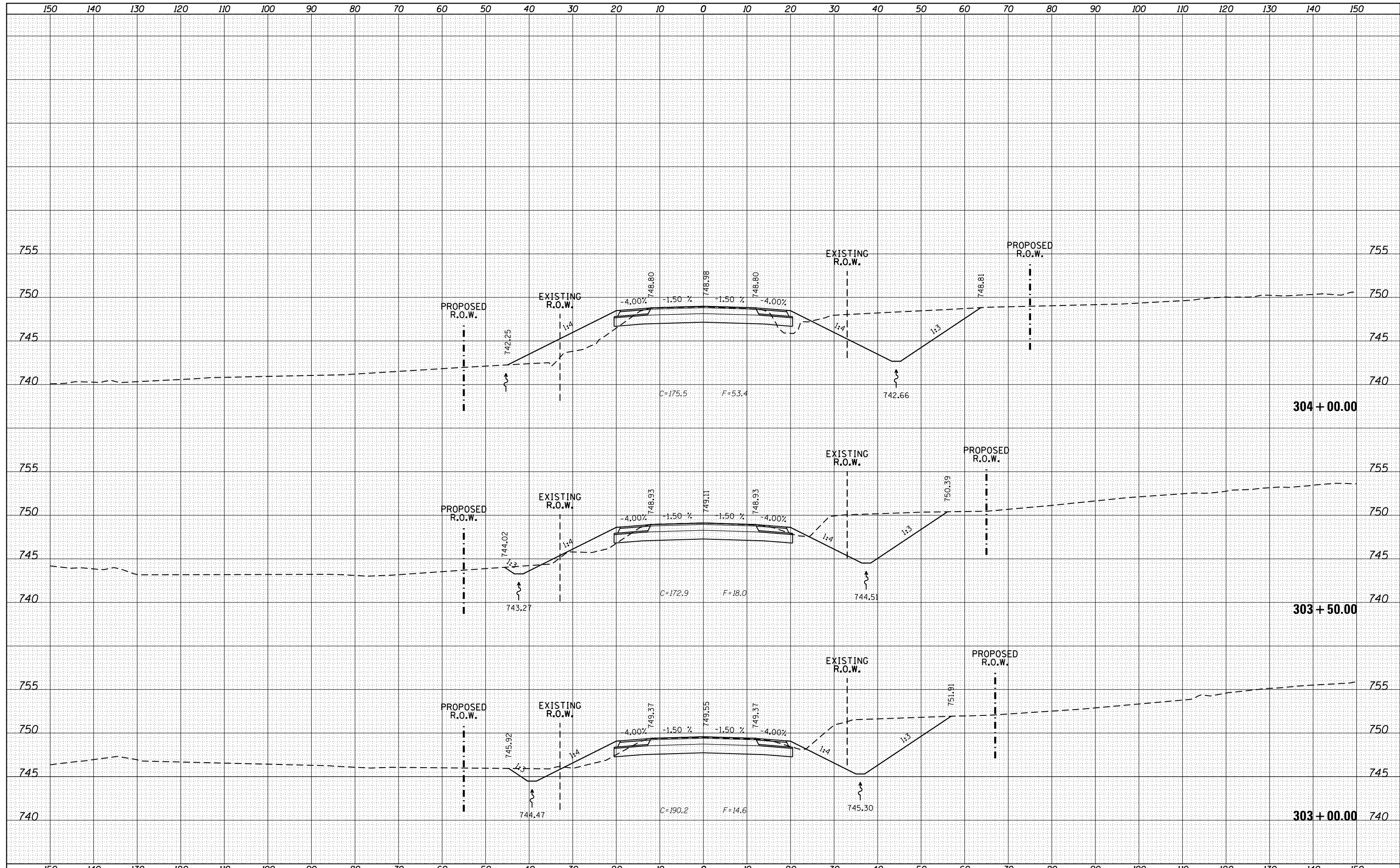
DATE	
BY	
ORIGINAL SURVEY	
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TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PLIL40_CrossSections\NEW.dgn		DRAWN -	REVISED -		1084	03-00083-00-BR	CARROLL	197	183			
Default		CHECKED -	REVISED -		JOB *C-92-067-06	CONTRACT NO. 85645						
		DATE -	REVISED -		SCALE:	SHEET 183	OF 197 SHEETS	STA. 301+00.00	TO STA. 302+50.00	ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

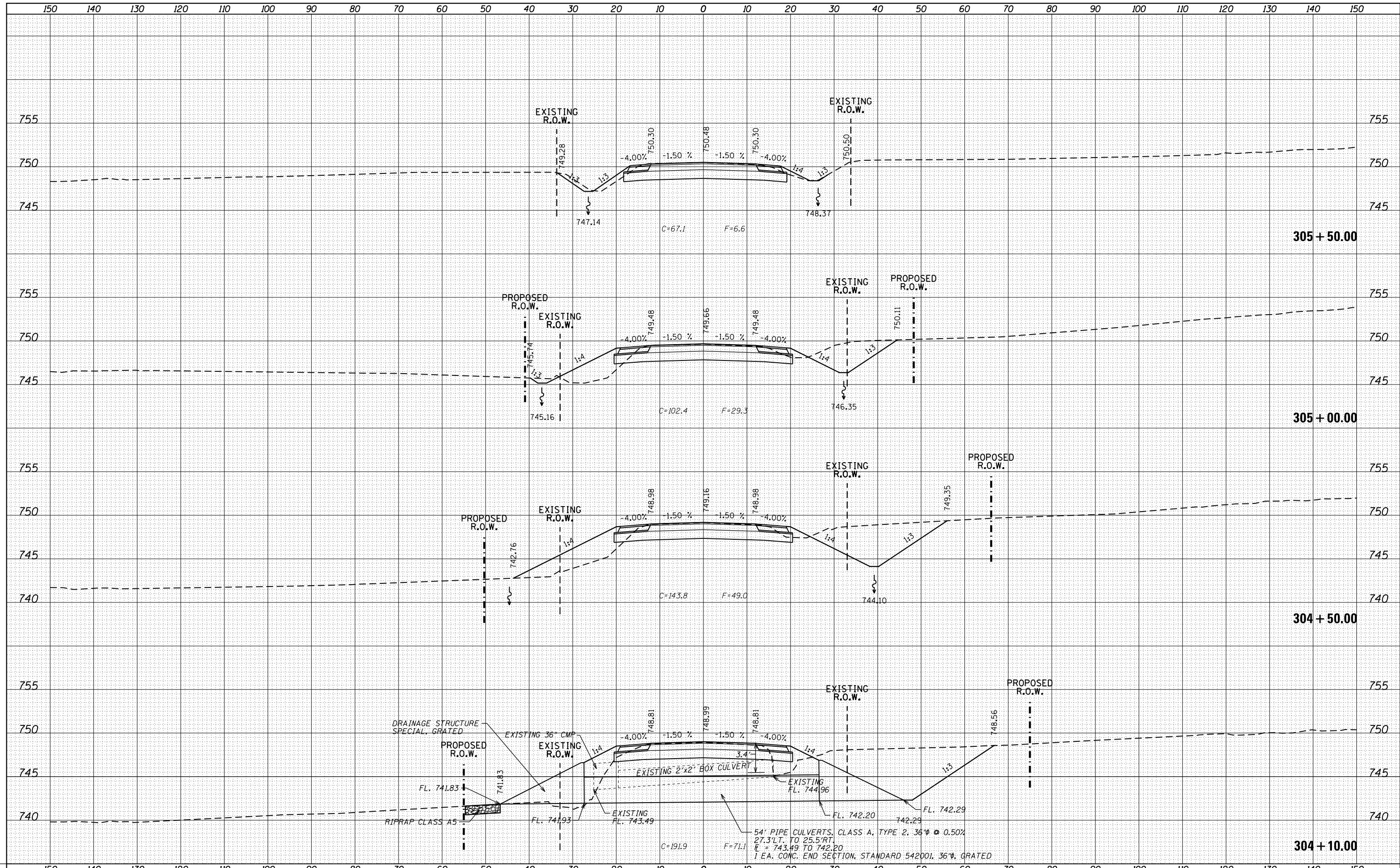
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISÉ -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PL40_CrossSections\NEW.dgn		DRAWN -	REVISÉ -			1084	03-00083-00-BR	CARROLL	197	184
Default		CHECKED -	REVISÉ -			JOB *C-92-067-06				CONTRACT NO. 85645
		DATE -	REVISÉ -			SCALE:	SHEET 184	OF 197 SHEETS	STA. 303+00.00	TO STA. 304+00.00

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

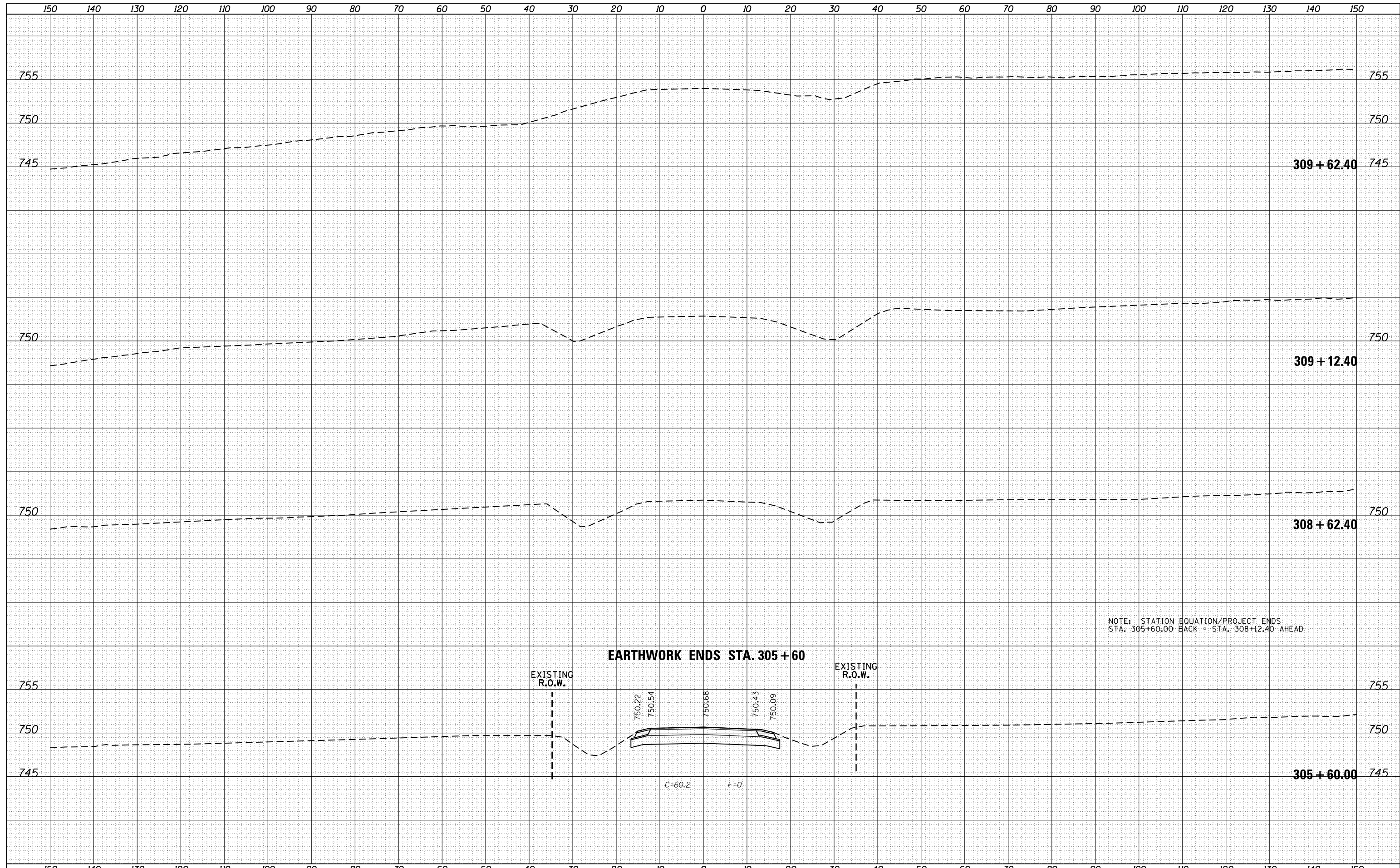
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 40 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PLIL40_CrossSections\NEW.dgn		DRAWN -	REVISED -		1084	03-00083-00-BR	CARROLL	197	185			
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -		JOB *C-92-067-06	CONTRACT NO. 85645						
Default		DATE -	REVISED -		SCALE:	SHEET 185	OF 197 SHEETS	STA. 304+10.00	TO STA. 305+50.00	ILLINOIS FED. AID PROJECT		

DATE	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = F:\2012Jobs\2120237\Geopak\PLIL40_CrossSections\NEW.dgn

USER NAME = Bryan.Hartmann	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 11/12/2019	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

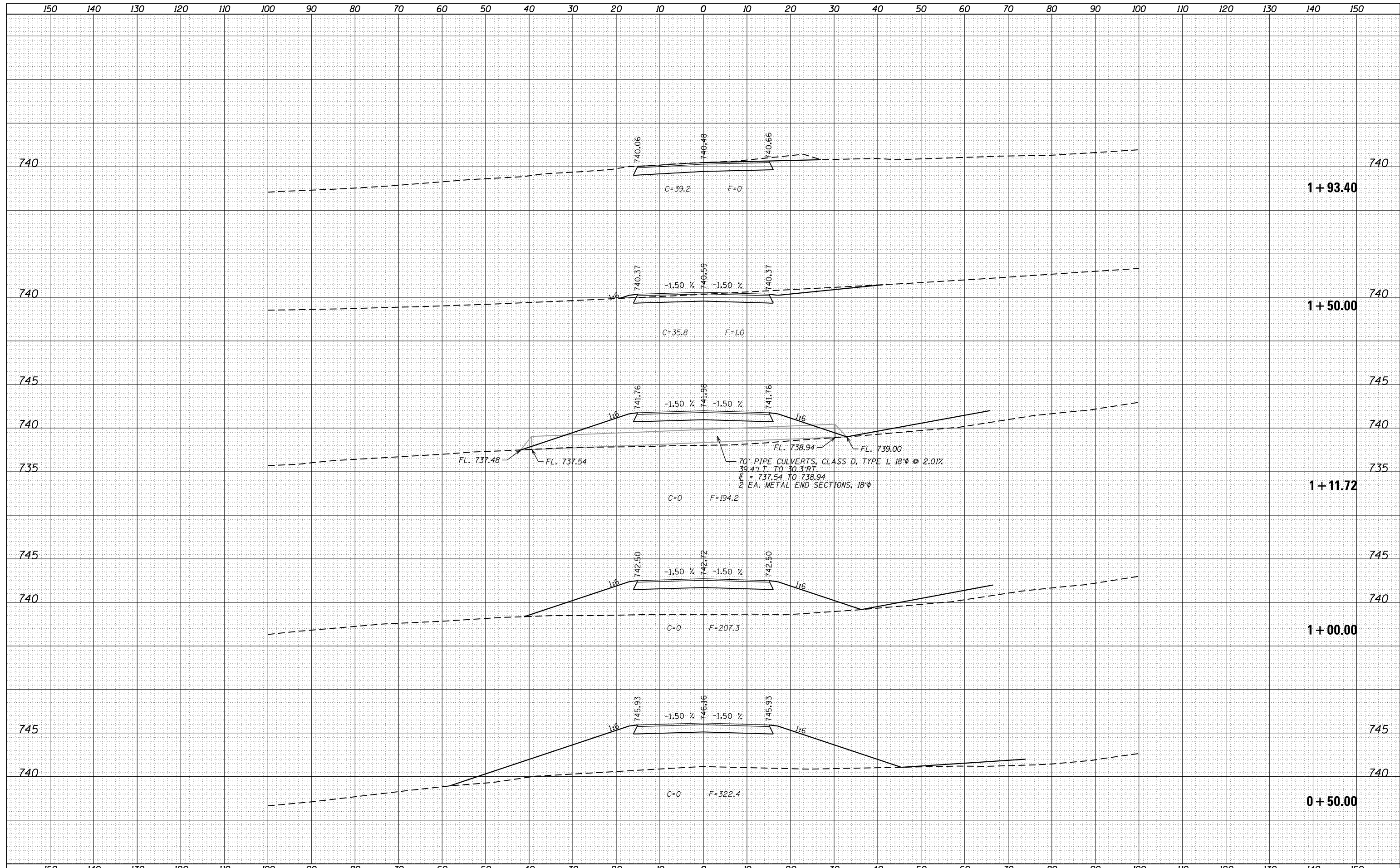
IL ROUTE 40 CROSS SECTIONS

SCALE: SHEET 186 OF 197 SHEETS STA. 305+60.00 TO STA. 307+10.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	WOODFORD	197	186
				CONTRACT NO. 85645
ILLINOIS FED. AID PROJECT				

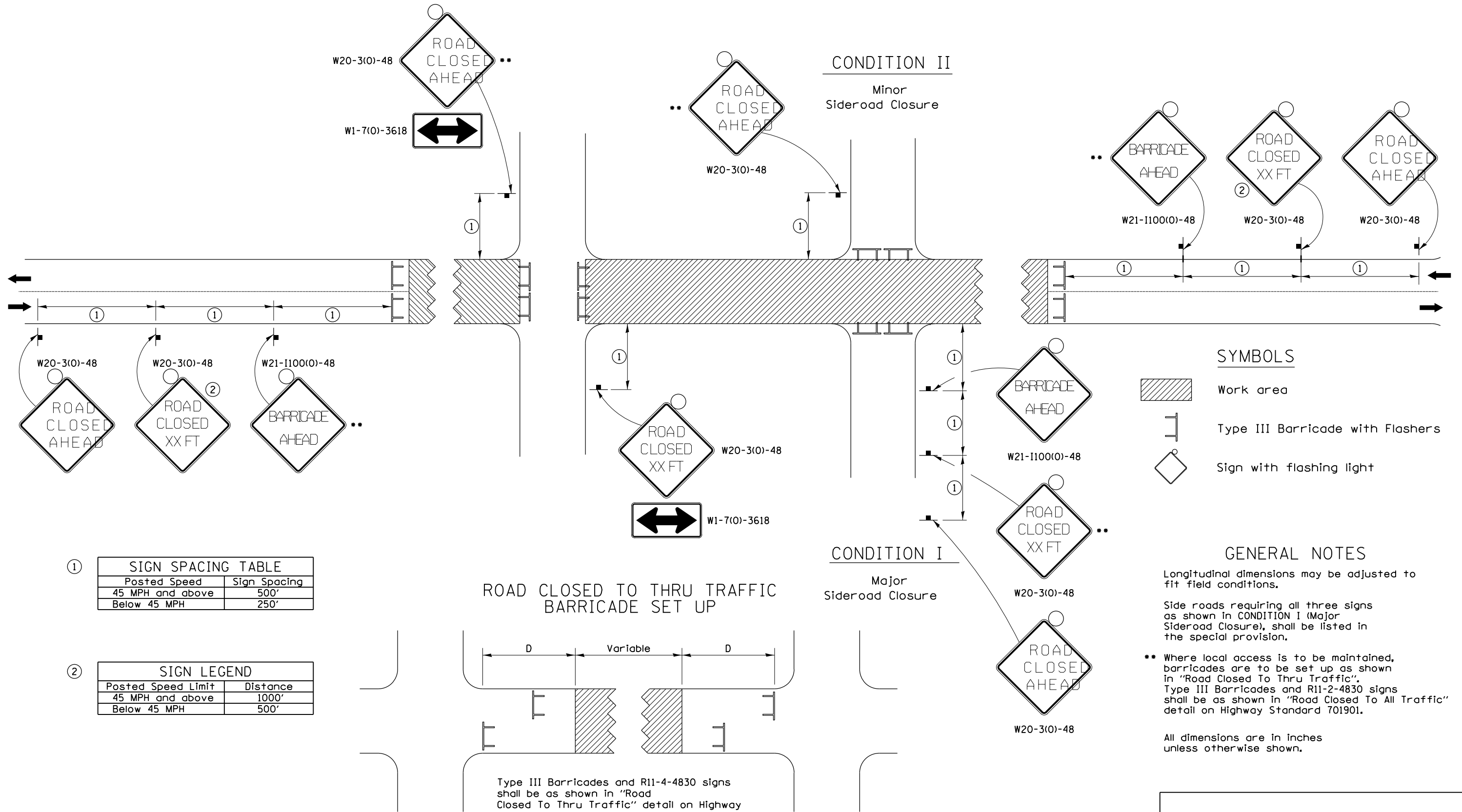
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
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FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISÉD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012\Jobs\2120237\Geopak\PIL40_ENT_CrossSections.dgn		DRAWN -	REVISÉD -		PROPOSED PRIVATE ENTRANCE - LT. STA. 290+50 IL ROUTE 40				1084	03-00083-00-BR	WOODFORD	197	187
Default		CHECKED -	REVISÉD -		SCALE:	SHEET 187	OF 197 SHEETS	STA. 0+50.00	TO STA. 1+93.40	CONTRACT NO. 85645			
		DATE -	REVISÉD -		ILLINOIS FED. AID PROJECT								

TRAFFIC CONTROL FOR ROAD CLOSURE



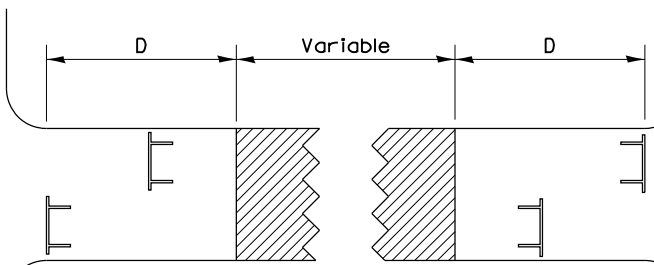
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP

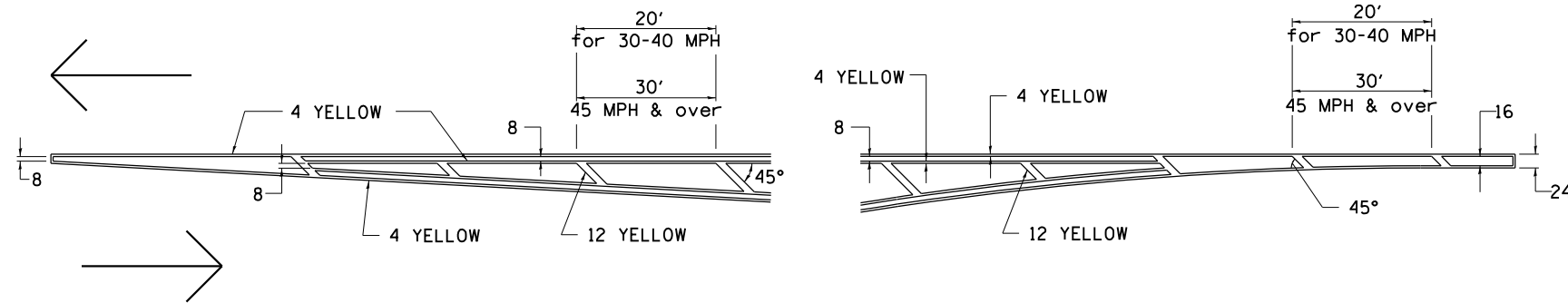


Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

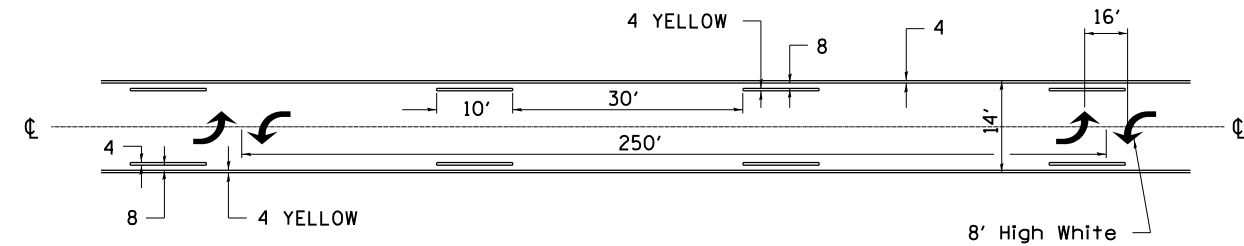
TYPICAL APPLICATION FOR ROAD CLOSURE

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

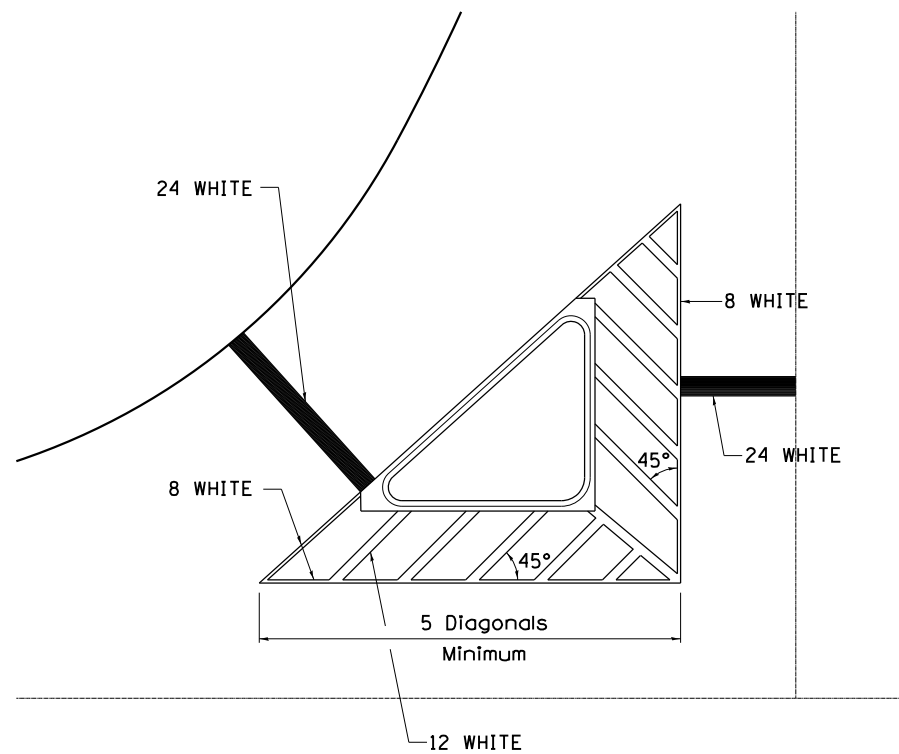


MEDIAN PAVEMENT MARKING



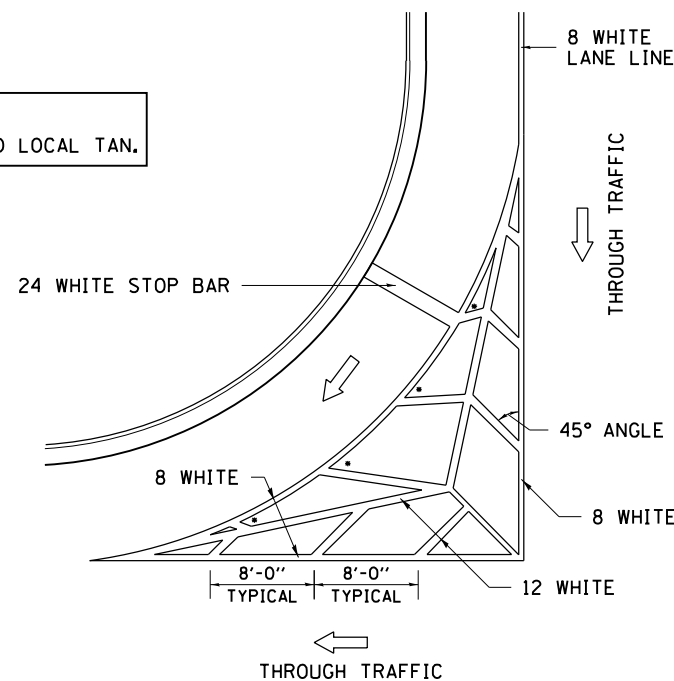
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



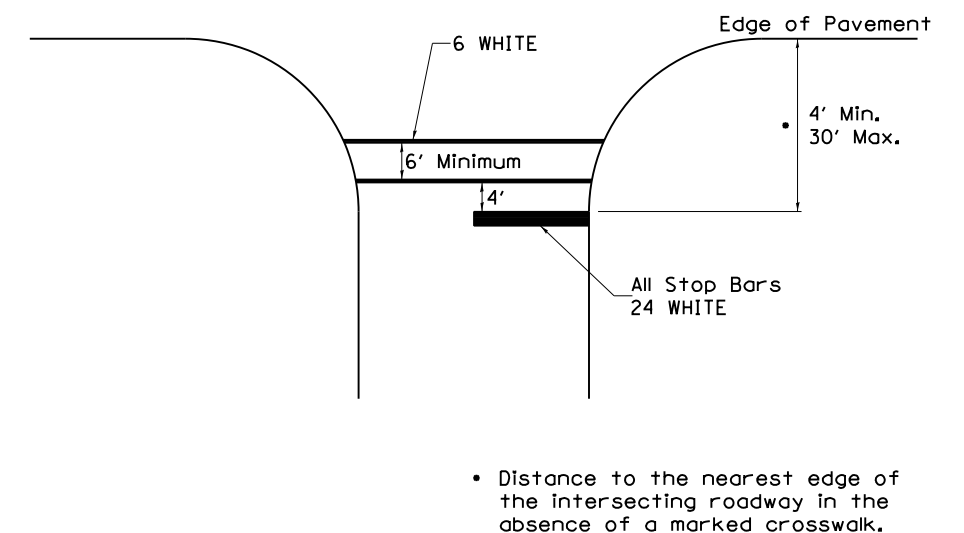
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED - 6-27-14
F:\2012Jobs\2120237\Dist Standards\0206811-DistrictStandards.dgn		DRAWN -	REVISED - 3-05-12
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

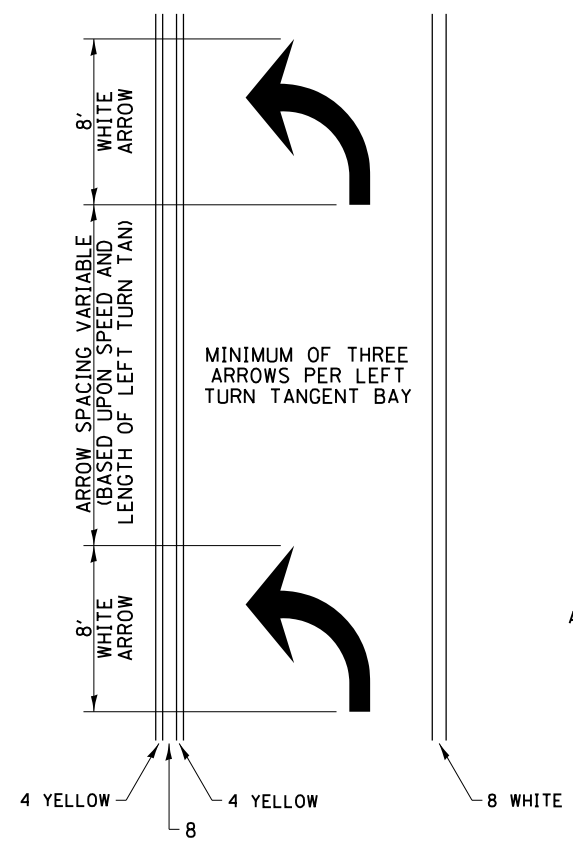
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 190 OF 197 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	190
JOB *C-92-067-06	CONTRACT NO. 85645			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

TYPICAL PAVEMENT MARKINGS

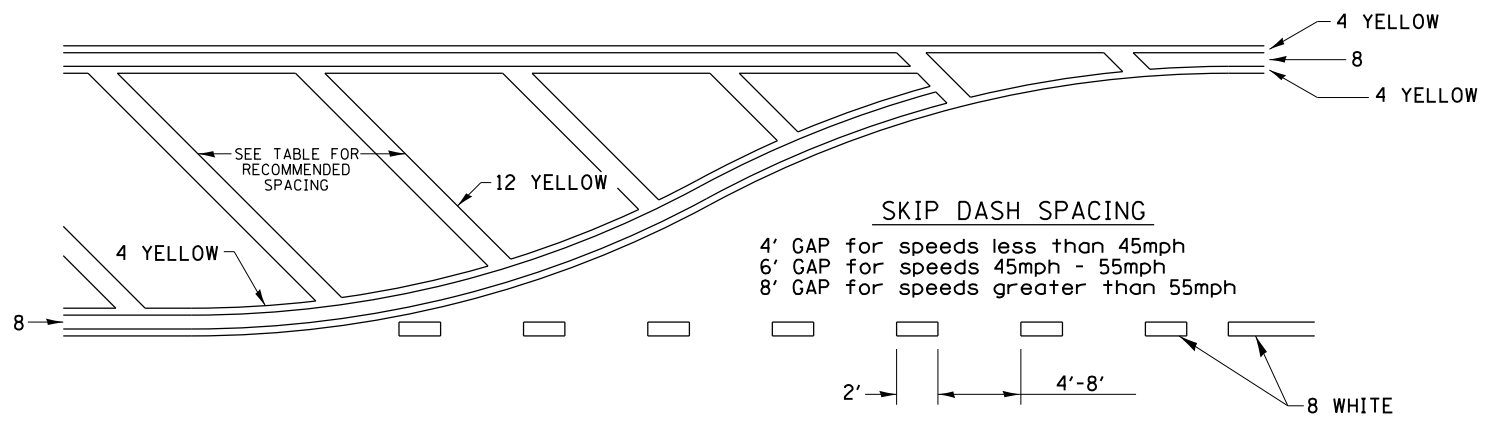
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

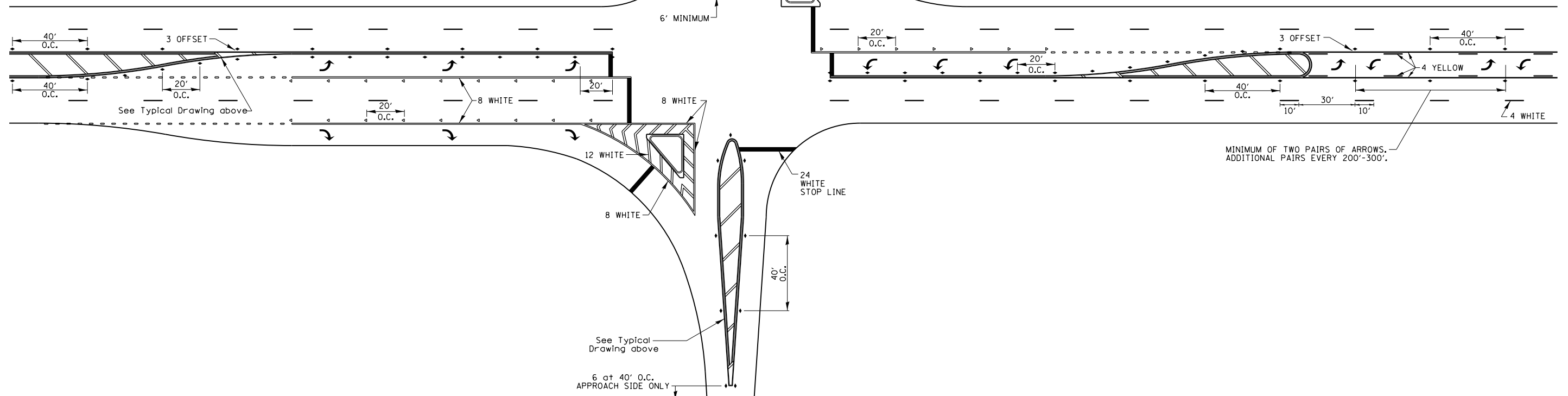
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

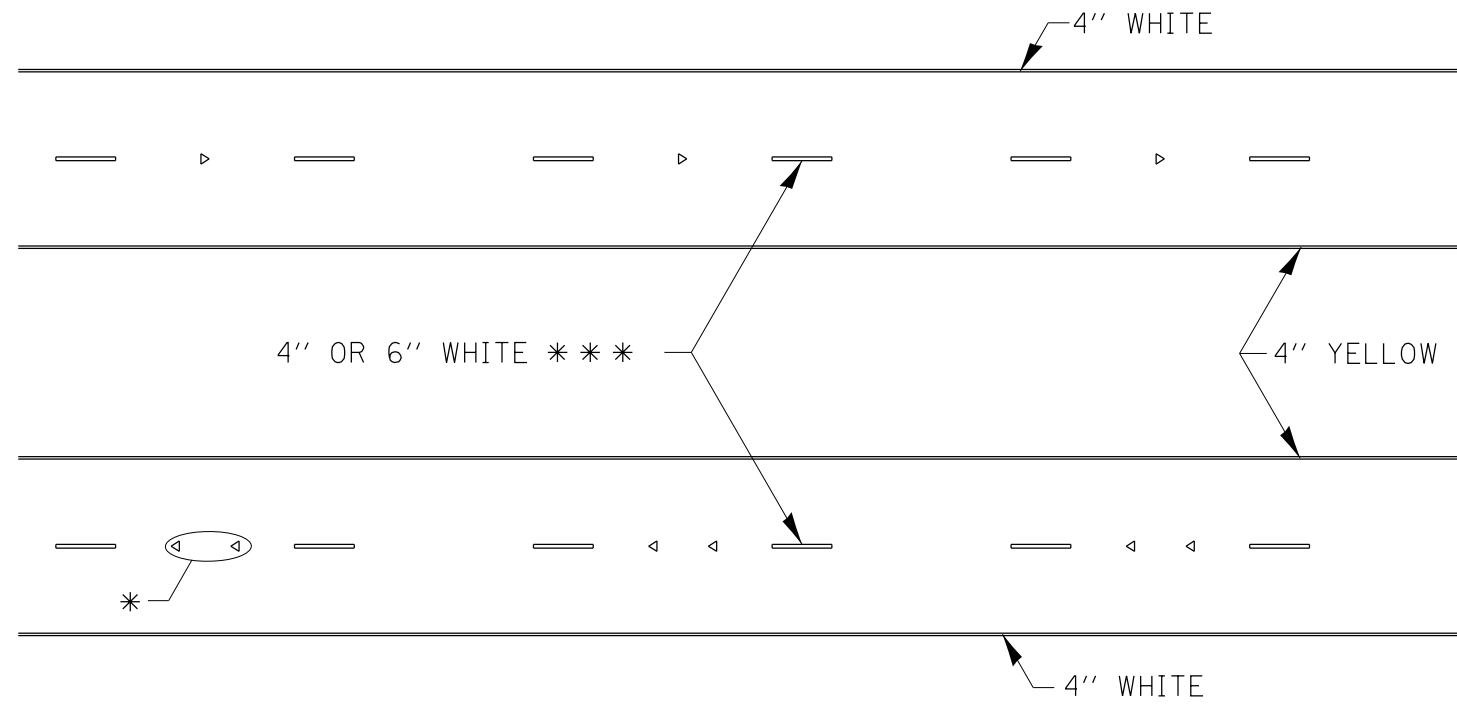
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



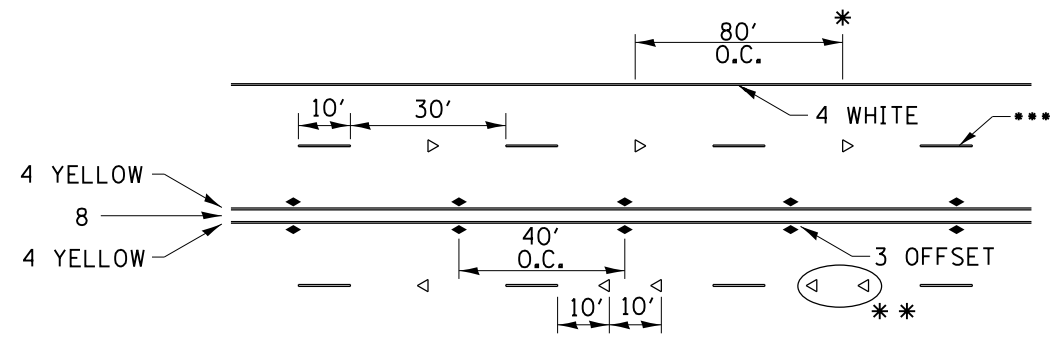
FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012Jobs\2120237\Dist Standards\0206811-DistrictStandards.dgn	DRAWN -	REVISED - 3-05-12	1084			03-00083-00-BR	CARROLL	197	191	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	JOB *C-92-067-06			CONTRACT NO. 85645				
PLOT DATE = 11/12/2019	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

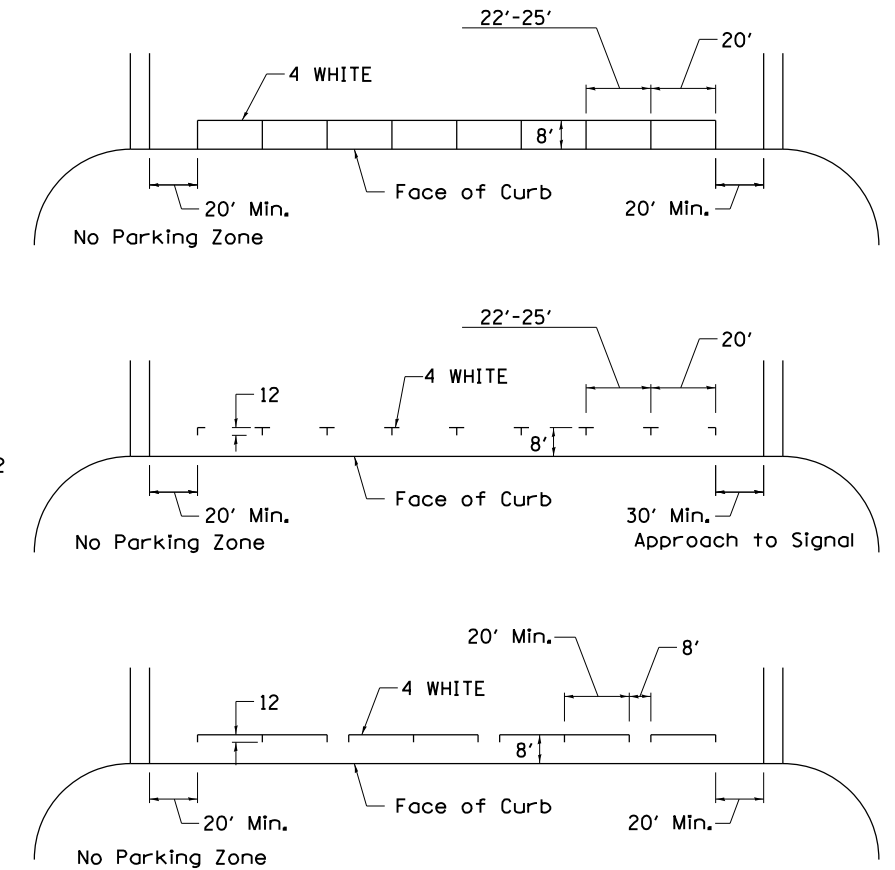
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

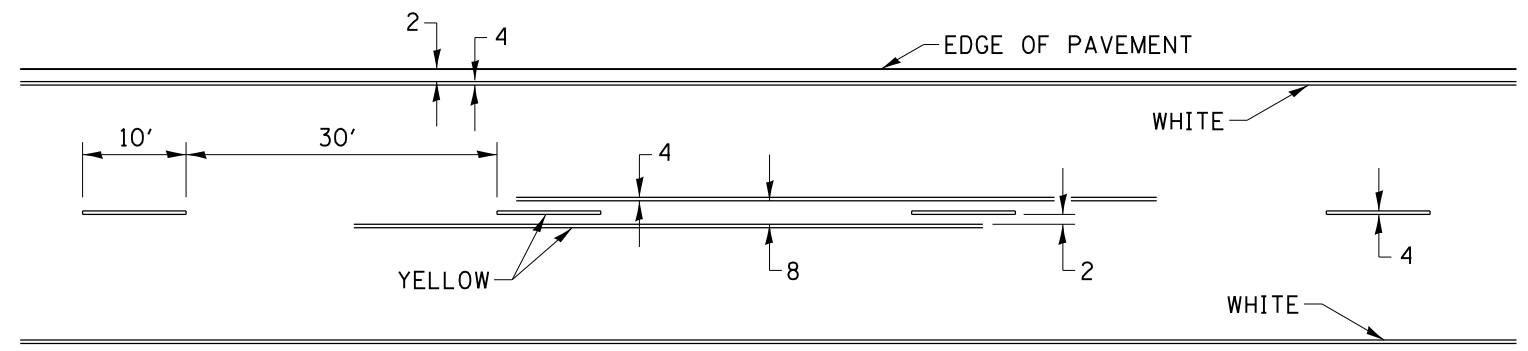
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



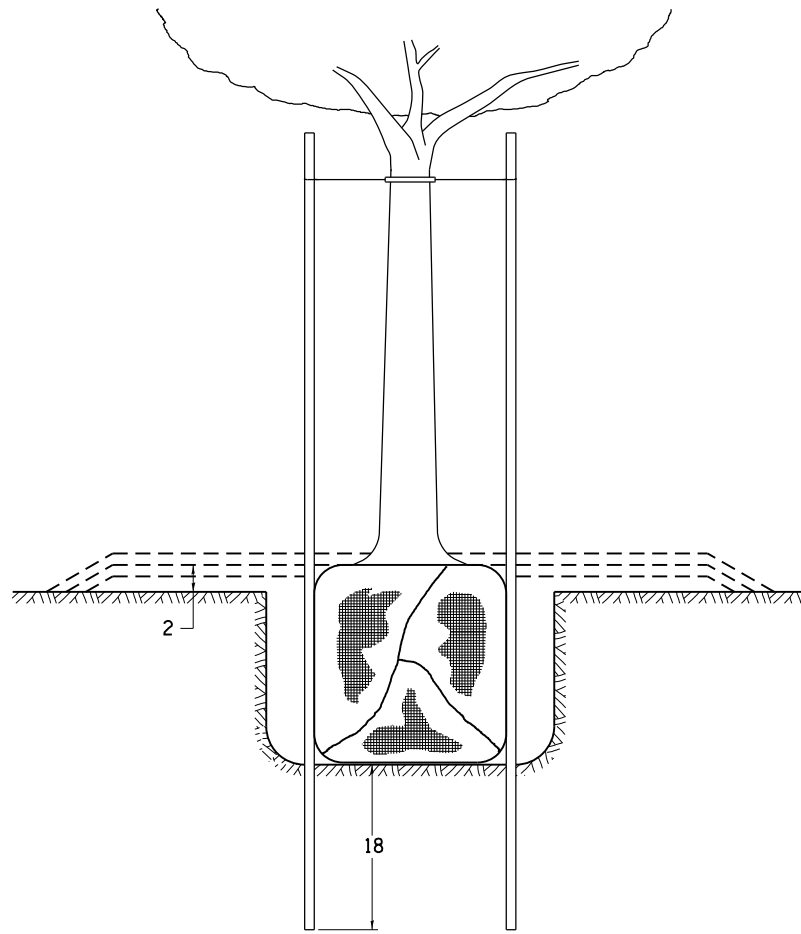
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



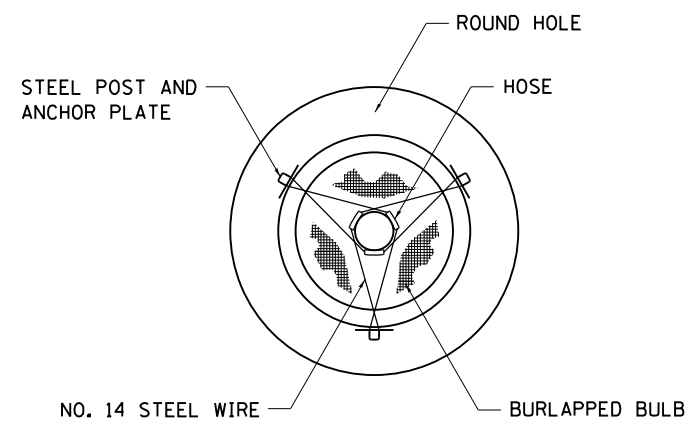
SYMBOLS

FILE NAME =	USER NAME = Bryan_Hartmann	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F:\2012Jobs\2120237\Dist_Standards\0206811-DistrictStandards.dgn	DRAWN -	REVISED - 8-27-13	1084			03-00083-00-BR	CARROLL	197	192	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - 11-28-12	JOB *C-92-067-06			CONTRACT NO. 85645				
PLOT DATE = 11/12/2019	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				

DETAILS OF PLANTING AND BRACING TREES

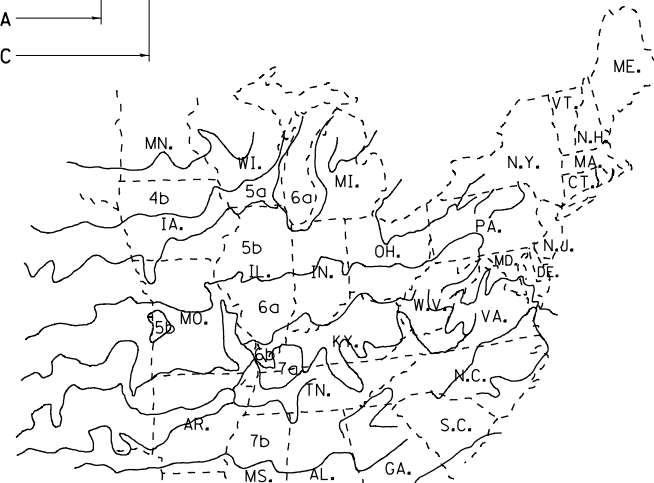
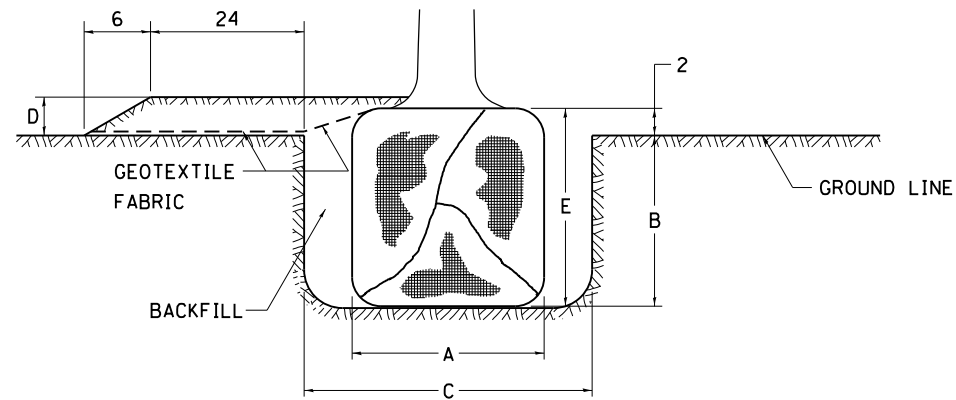


TREES SMALLER THAN 4 1/2 IN DIAMETER



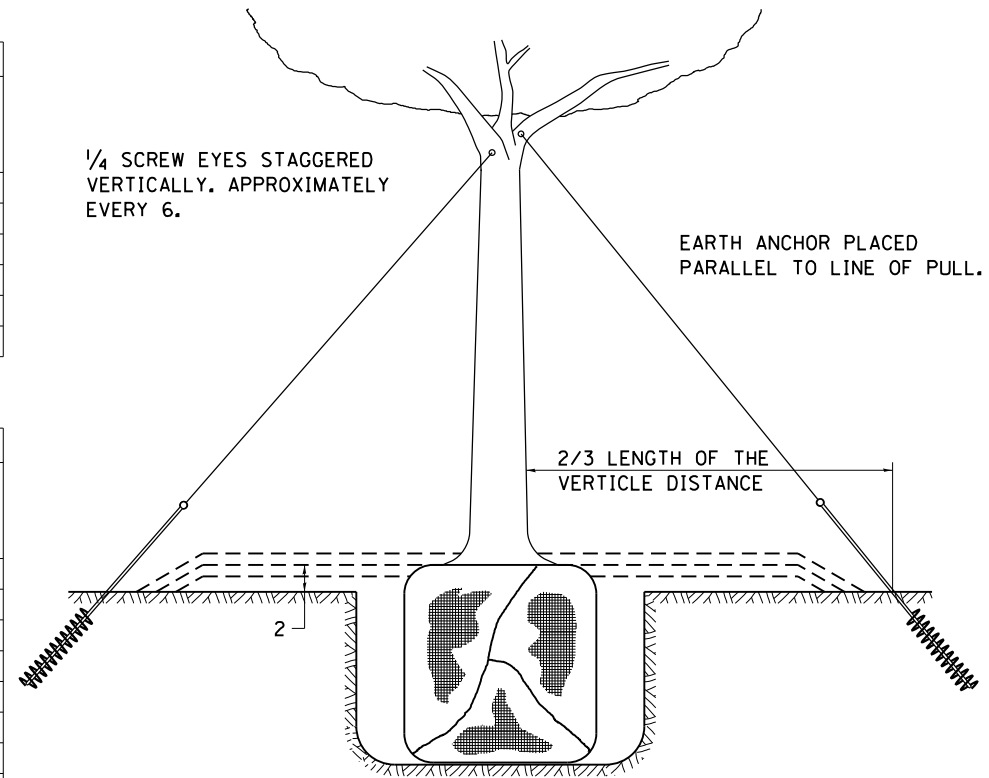
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38

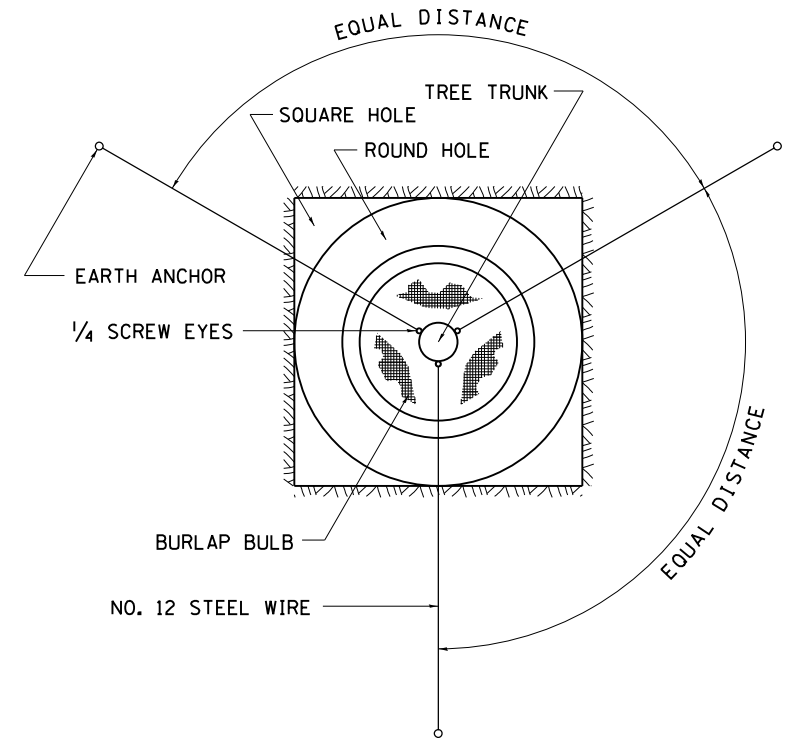


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 4 1/2 IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = Bryan.Hartmann	DESIGNED -	REVISED - 10-18-11
F:\2012Jobs\2120237\Dist_Standards\0206811-DistrictStandards.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

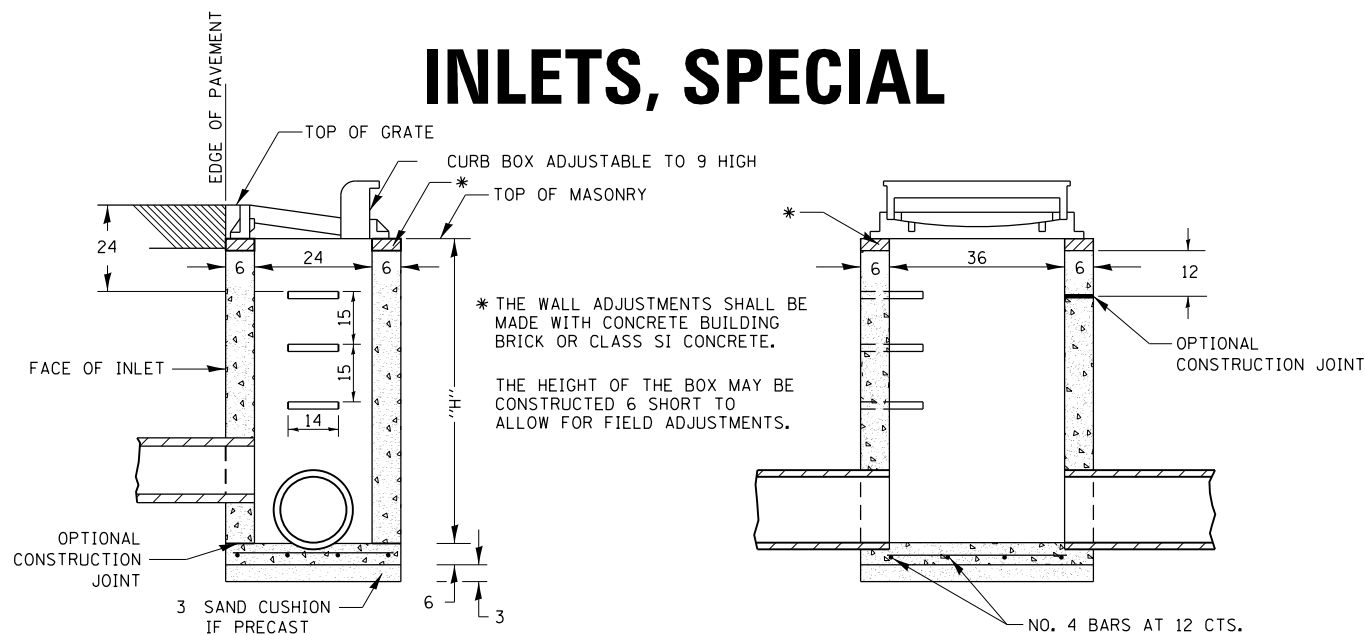
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 193 OF 197 SHEETS STA. TO STA.

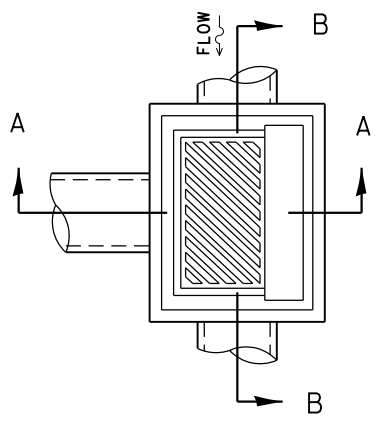
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	193
JOB *C-92-067-06		CONTRACT NO. 85645		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INLETS, SPECIAL

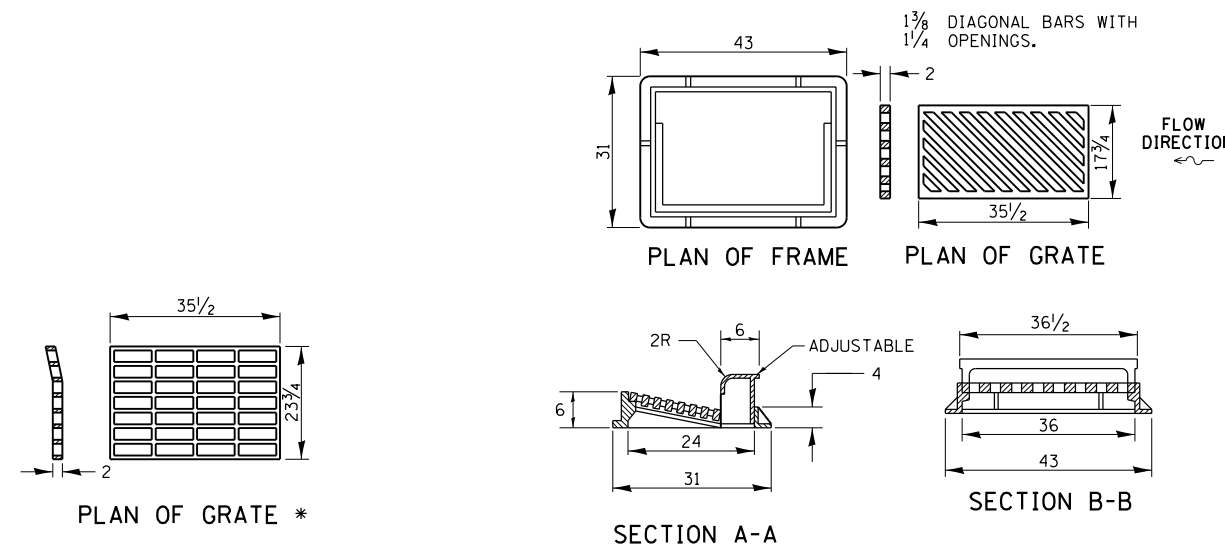


SEC. A-A

SEC. B-B



DETAIL OF FRAME & GRATE



* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

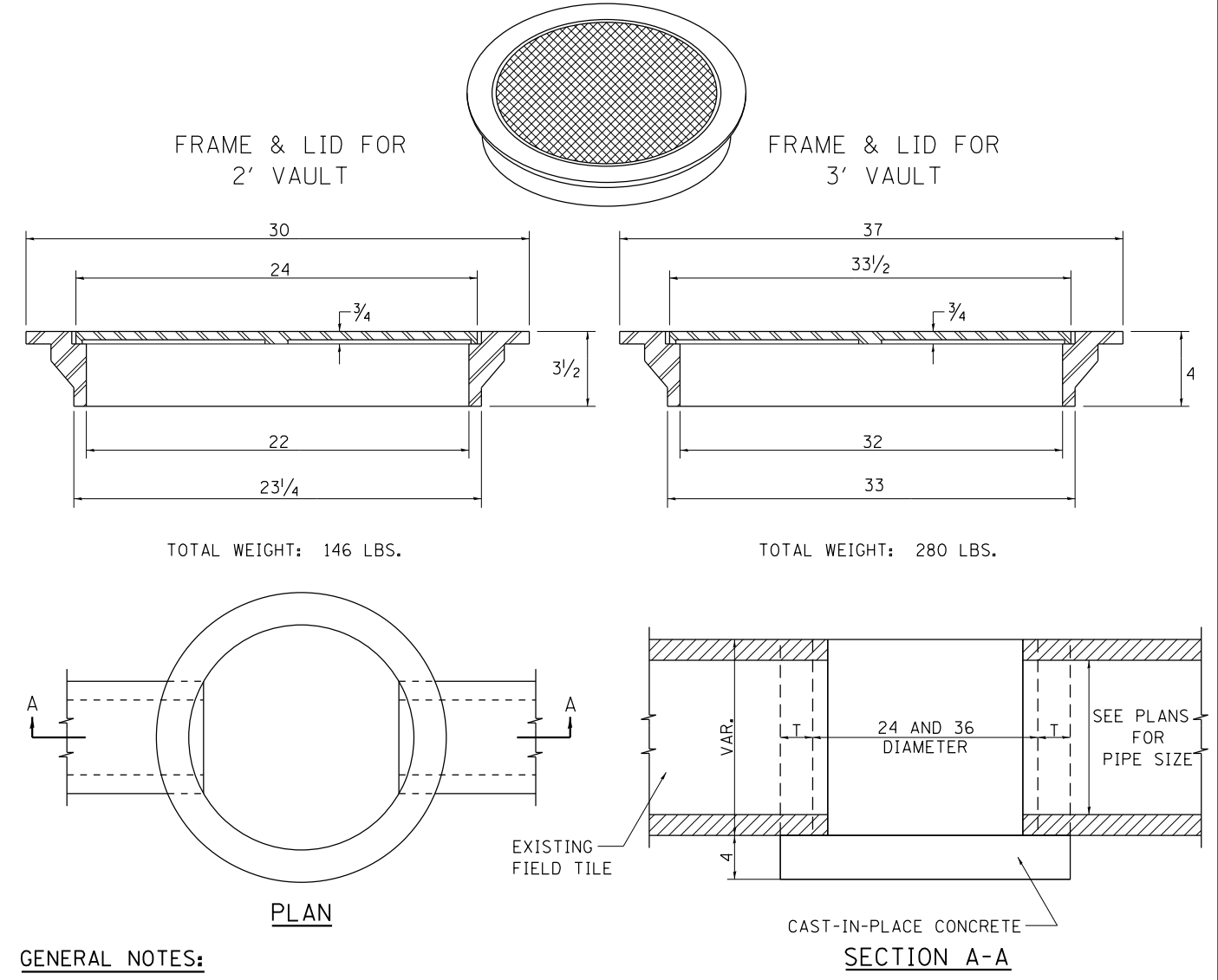
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 530 lbs. ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 ft.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA.



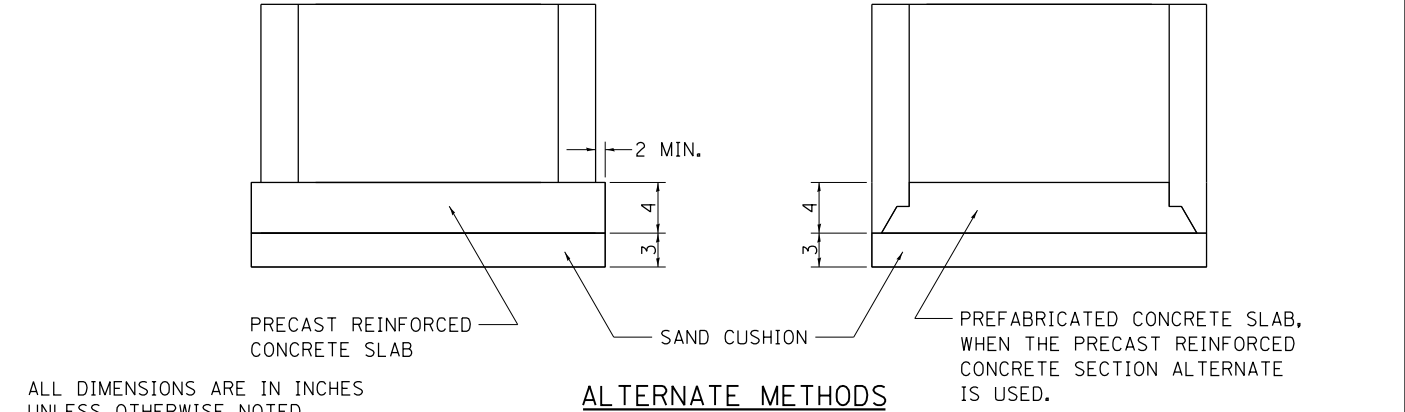
GENERAL NOTES:

THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS. THE FRAME AND LID SHALL BE INSTALLED FLUSH WITH THE GROUND.

FRAME AND LIDS:

R-6040 OR EQUIVALENT (2')
R-6080 OR EQUIVALENT (3')

ALTERNATE MATERIALS FOR WALLS		T
BRICK MASONRY		8
CAST-IN-PLACE CONCRETE		6
CONCRETE MASONRY UNIT		5
PRECAST REINFORCED CONCRETE SECTION		3



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

ALTERNATE METHODS

REVISED - 1-05-16
REVISED - 6-27-14
REVISED - 10-13-11

REVISED - 1-03-18
REVISED - 6-27-14
REVISED - 10-14-11
REVISED -

REGION 2 / DISTRICT 2 STANDARD

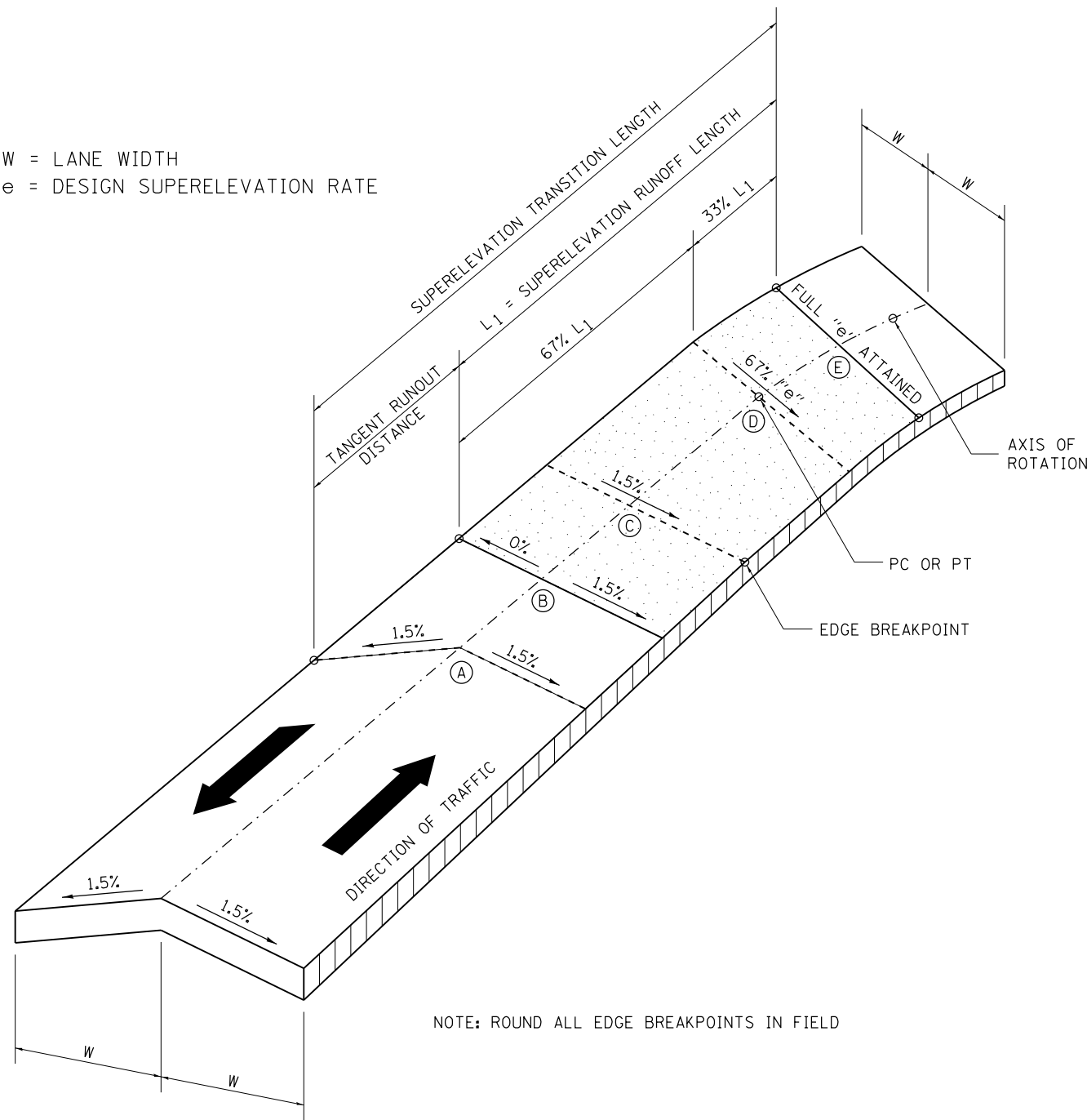
SCALE: SHEET NO. 194 OF 197 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	194
JOB *C-92-067-06			CONTRACT NO. 85645	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOT DATE = 11/12/2019

SUPERELEVATION TRANSITION ON TWO-LANE HIGHWAY

W = LANE WIDTH
e = DESIGN SUPERELEVATION RATE



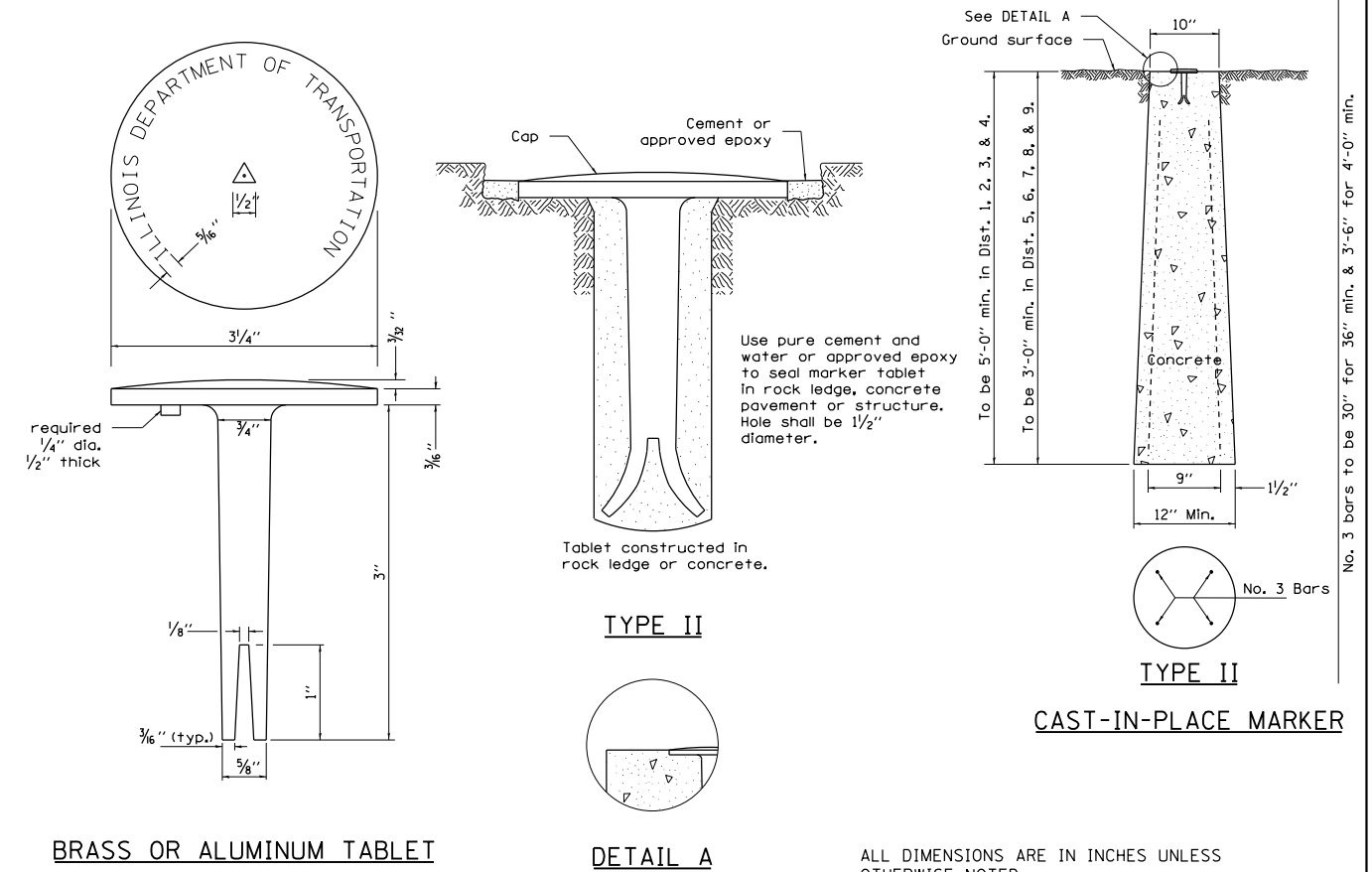
NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD

TRANSITION CURVE TABLE

CURVE PI STA.	SUPERELEVATION "e"	W	SUPERELEVATION TRANSITION LENGTH	TANGENT RUNOUT DISTANCE	SUPERELEVATION RUNOFF LENGTH
285+23.47	4.00%	12'	149.00'	41.00'	108.00'

REVISED - 11-09-06

PERMANENT SURVEY MARKERS, TYPE II

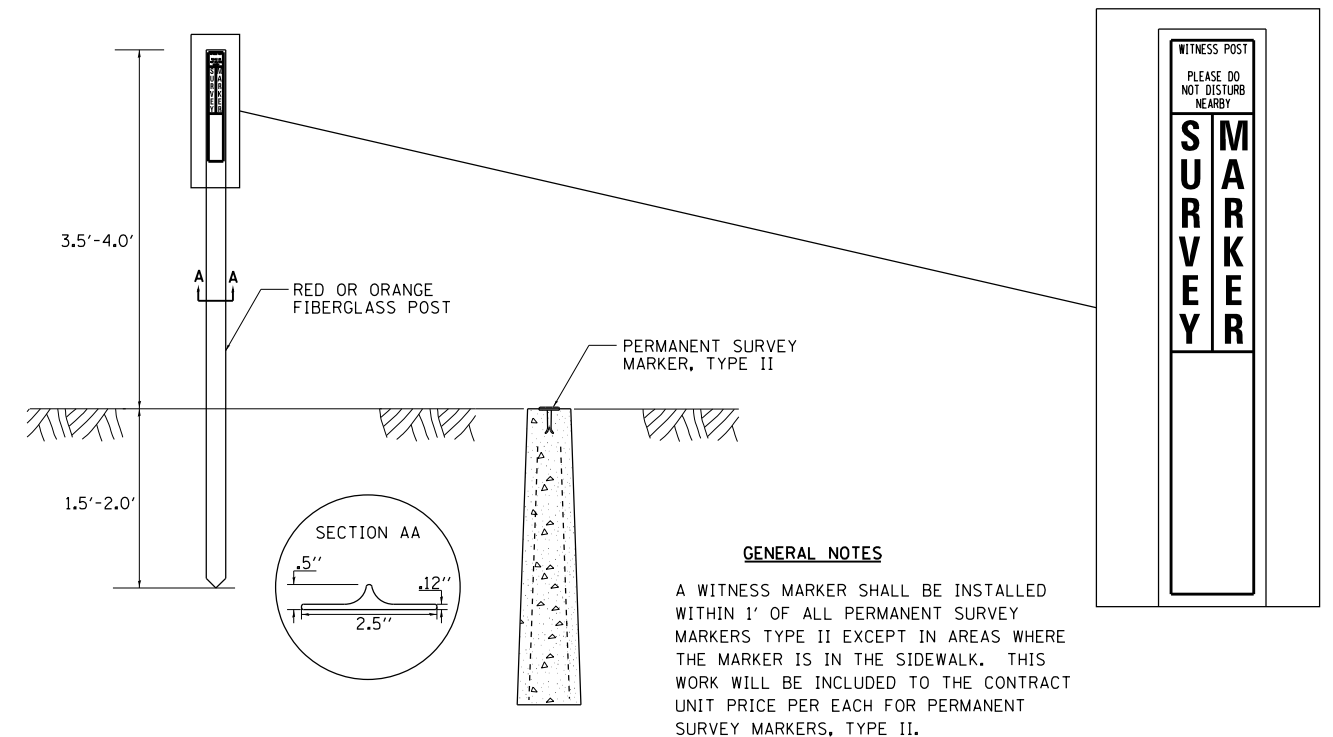


BRASS OR ALUMINUM TABLET

DETAIL A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

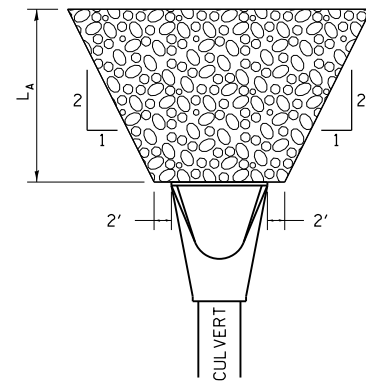
REVISED - 6-27-14
REVISED - 10-14-11
REVISED -
REVISED -

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 195 OF 197 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	195
JOB *C-92-067-06			CONTRACT NO. 85645	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

RIPRAP AT END SECTIONS

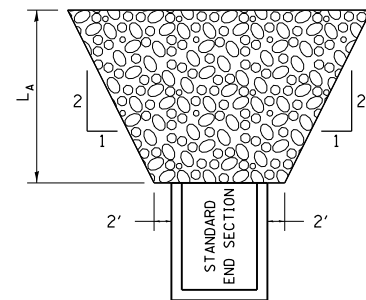


FLARED END SECTION

L_A = APRON LENGTH (ft)

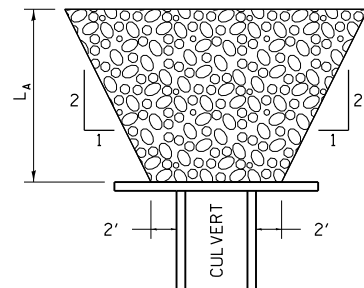
IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).

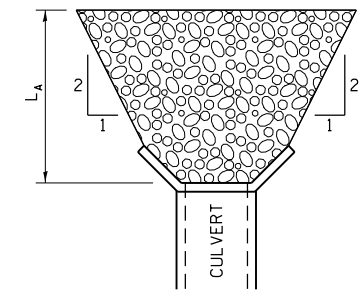


STANDARD END SECTION

REVISED - 7-13-16
REVISED - 11-12-14
REVISED - 2-10-14



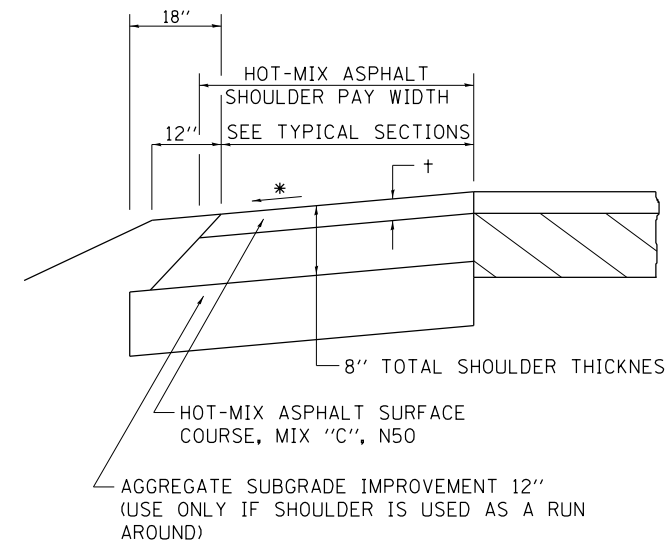
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

RIPRAP AT END SECTIONS 19.4

HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

REVISED - 1-05-16
REVISED - 3-13-13

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

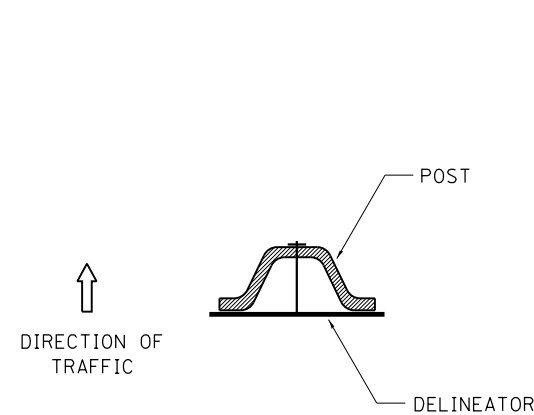
USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

HOT-MIX ASPHALT SHOULDER 22.4

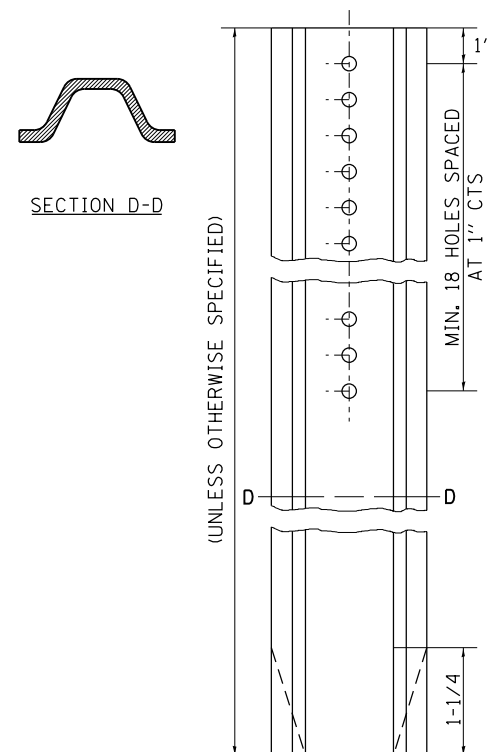
DELINEATOR AND POST ORIENTATION



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

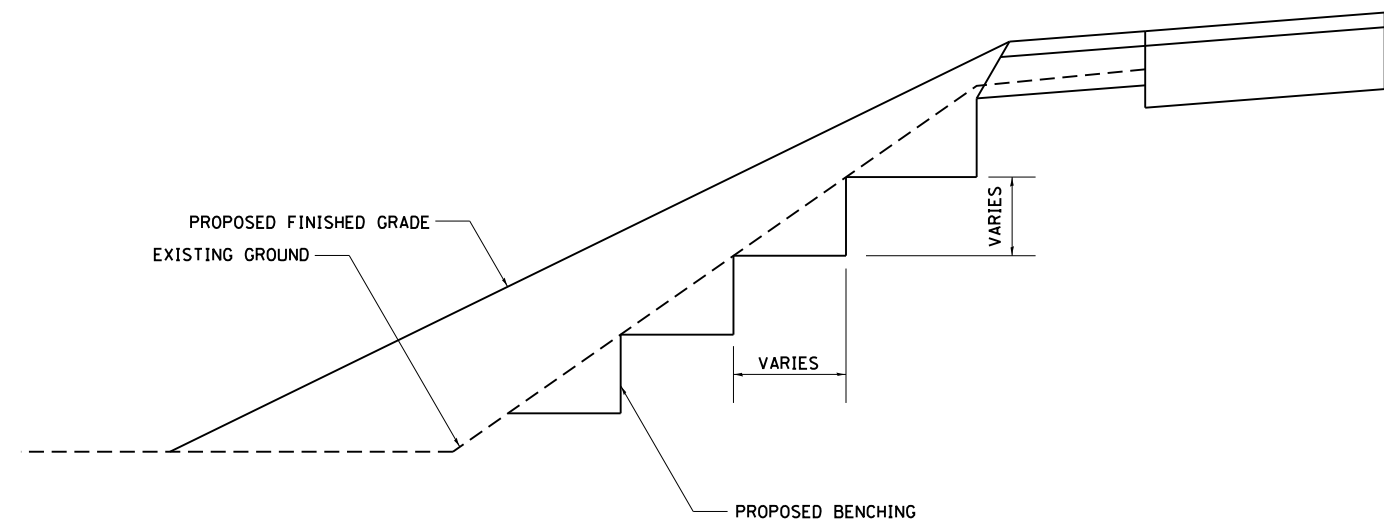
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11



DELINEATOR AND POST ORIENTATION 37.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06
REVISED -
REVISED -
REVISED -

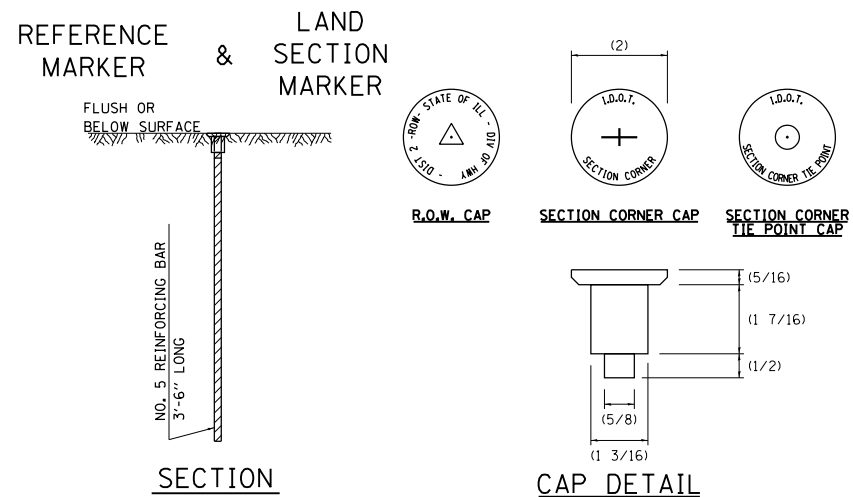
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 196 OF 197 SHEETS STA. TO STA.

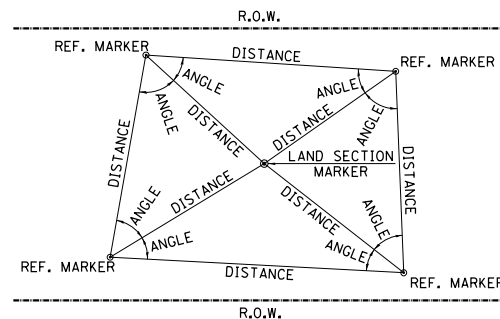
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1084	03-00083-00-BR	CARROLL	197	196
JOB *C-92-067-06			CONTRACT NO. 85645	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING MARKERS



METHOD OF REFERENCING POINTS

REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 3" BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL BE REPLACED BY CORE DRILL AND RESETTING PIN.

ALUMINUM CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY THE SURVEYOR WHO IS RESPONSIBLE FOR MONUMENTING CORNERS.

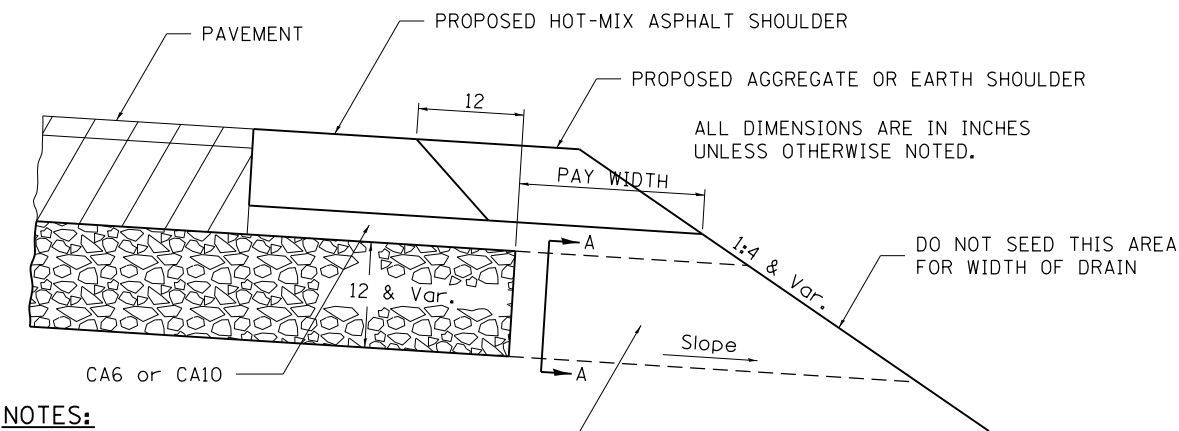
REVISED - 3-05-10

- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 28" OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL SO AS NOT TO BE DISTURBED BY MOWING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

LAND SECTION & REFERENCE MARKERS 63.4

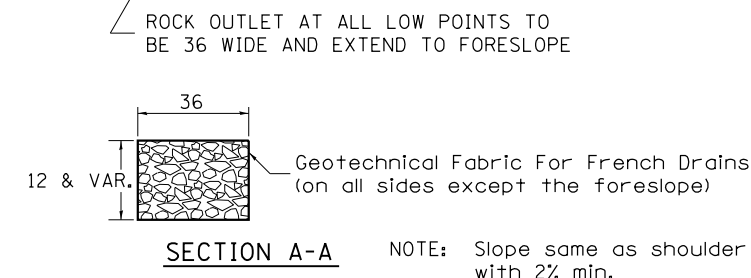
DRAIN FOR AGGREGATE BASE COURSE



NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per CUBIC YARD for FRENCH DRAINS. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in CU YD, the width being 36 by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per SQ. YD. for AGGREGATE SUBGRADE IMPROVEMENT of the thickness specified. The fabric to be used shall conform to the Geotechnical Fabric For French Drains

REVISED - 8-27-13
REVISED - 10-09-12



DRAIN FOR AGGREGATE BASE COURSE 96.4

REVISED -	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			1084	03-00083-00-BR	CARROLL	197	197
REVISED -			JOB *C-92-067-06		CONTRACT NO. 85645		
REVISED -	SCALE:	SHEET NO. 197 OF 197 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		