

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 RIP RAP 2017	VAR.	29	1
		ILLINOIS	CONTRACT NO. 72J87	

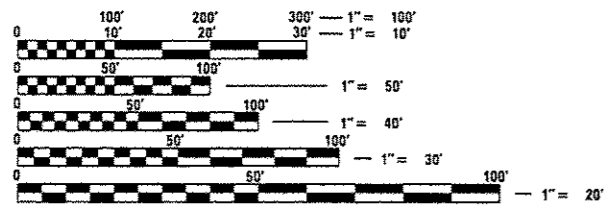
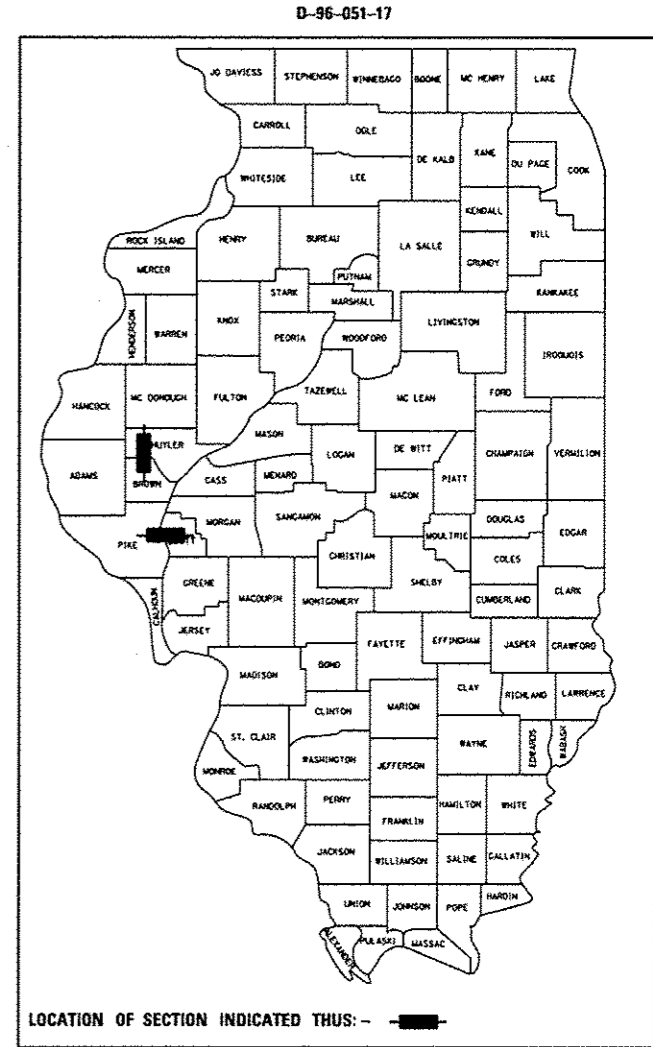
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED CONTRACT MAINTENANCE

VARIOUS ROUTES SECTION D6 RIP RAP 2017

RIPRAP INSTALLATION VARIOUS COUNTIES

C-96-051-17

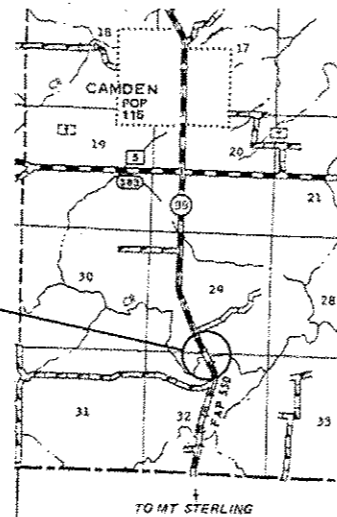


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

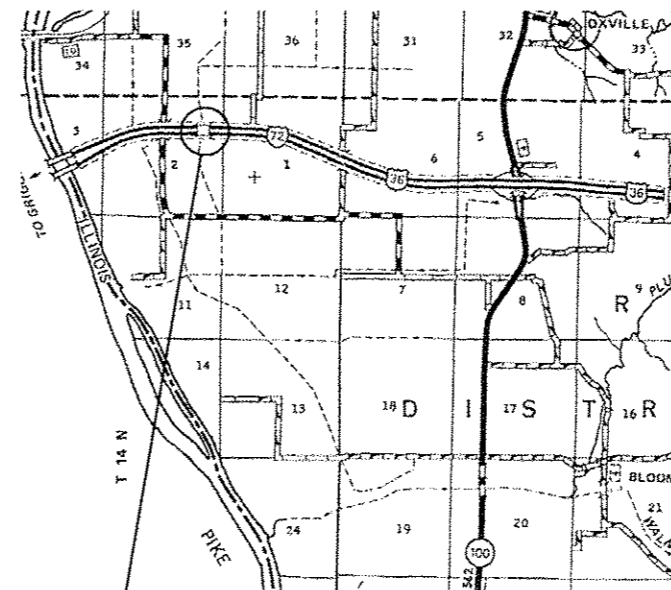
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

BRIDGE MAINTENANCE ENGINEER - BRANDON DUDLEY: (217) 785-9290

CONTRACT NO. 72J87



SCHUYLER COUNTY



SCOTT COUNTY

LOCATION #2:
SN 086-0042 & 0043
1-72 OVER DRAINAGE DITCH
2.5 MI W OF IL 100

GROSS LENGTH = x.xx FT. = x.xxx MILE
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3 April 2017

[Signature] REGIONAL ENGINEER

May 12 2017

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

May 12 2017

[Signature] 2
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

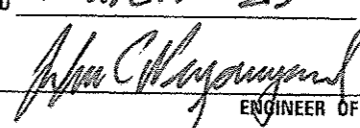
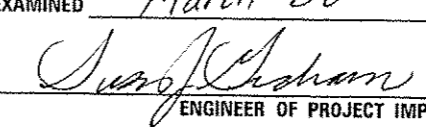

INDEX OF SHEETS

1	COVER SHEET
2	INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES
3	SUMMARY OF QUANTITIES
4	QUANTITY SCHEDULES
5-9	LOCATION #1 PLAN AND DETAILS
10-15	LOCATION #2 PLAN AND DETAILS
16-21	LOCATION #1 CROSS SECTIONS
22-29	LOCATION #2 CROSS SECTIONS

HIGHWAY STANDARDS

000001-06
001006
701001-02
701006-05
701101-05
701106-02
701201-04
701301-04
701400-09
701406-11
701901-06

GENERAL NOTES:

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED	<i>March 23rd</i> 20 <i>17</i>  ENGINEER OF OPERATIONS
EXAMINED	<i>March 28</i> 20 <i>17</i>  ENGINEER OF PROJECT IMPLEMENTATION
EXAMINED	MARCH 23 20 17  ENGINEER OF PROGRAM DEVELOPMENT

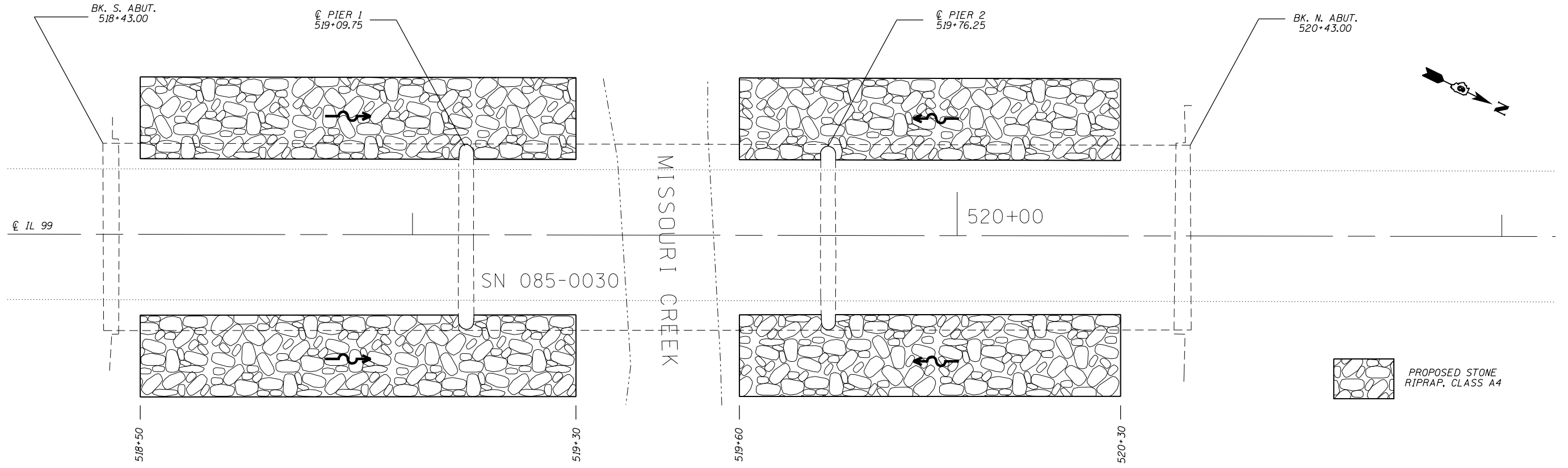
FILE NAME *	USER NAME * dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, & SIGNATURES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\118846BIDINTEG.Illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Projects\067	DRAMA Data\640\Sheets\DX\xxxx-ent-genn	REVISION	REVISION			VAR.	06 RIP RAP 2017	VAR.	29	2	
	PLOT SCALE * 100.0000' / 1"	CHECKED -	REVISION			SCALE:		SHEET OF SHEETS		STA. TO STA.	
Default	PLOT DATE * 3/29/2017	DATE -	REVISION			ILLINOIS FED. AID PROJECT CONTRACT NO. 72J87					

EARTHWORK AND RIPRAP SCHEDULE									
	STA	TO	STA	LOCATION	LENGTH (FEET)	WIDTH (FEET)	EARTH EXCAVATION (CU YD)	STONE RIPRAP, CLASS A4 (SQ YD)	FILTER FABRIC (SQ YD)
LOCATION #1	518+50	-	519+30	LT	80	15	96.4	133.3	133.3
	518+50	-	519+30	RT	80	15	128.0	133.3	133.3
	519+60	-	520+30	LT	70	15	55.4	116.7	116.7
	519+60	-	520+30	RT	70	15	62.5	116.7	116.7
LOCATION #2	44+50	-	44+90	LT	40	15	15.1	66.7	66.7
	44+50	-	44+90	LT MED	40	15	15.3	66.7	66.7
	44+50	-	44+90	RT MED	40	15	15.6	66.7	66.7
	44+50	-	44+90	RT	40	15	12.7	66.7	66.7
	45+05	-	45+60	LT	55	15	21.5	91.7	91.7
	45+05	-	45+60	LT MED	55	15	41.3	91.7	91.7
	45+05	-	45+60	RT MED	55	15	29.3	91.7	91.7
	45+05	-	45+60	RT	55	15	34.3	91.7	91.7
TOTALS							527.4	1133.6	1133.6

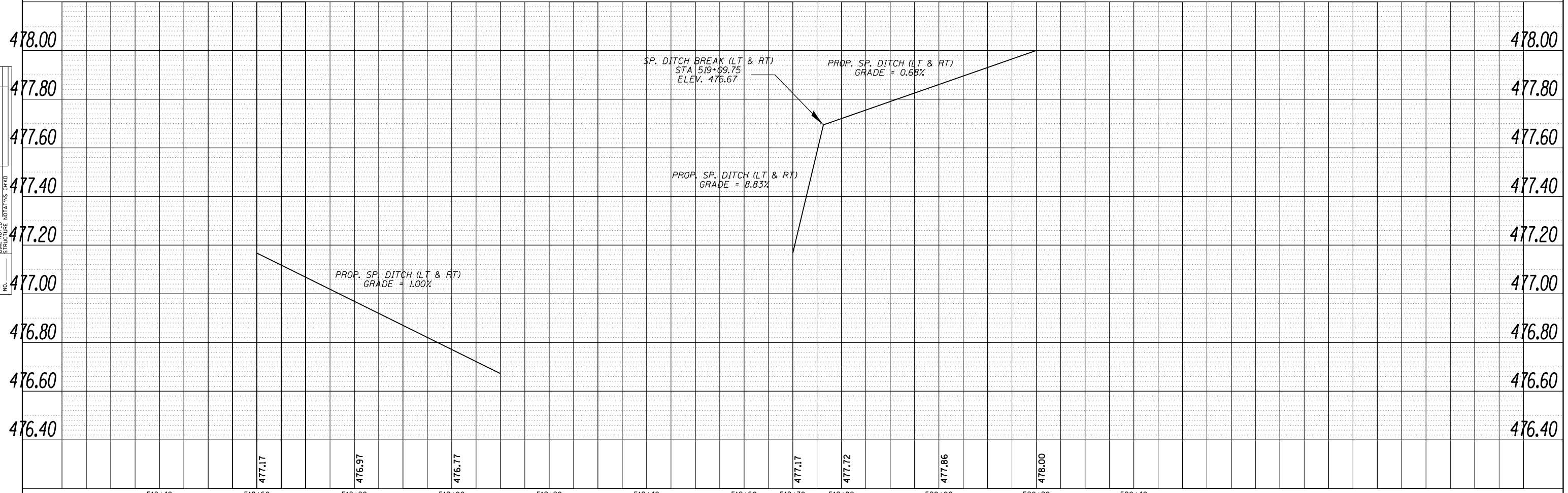
SEEDING SCHEDULE												
	STA	TO	STA	LOCATION	LENGTH (FEET)	WIDTH (FEET)	SEEDING, CLASS 2 (ACRE)	MULCH, METHOD 2 (ACRE)	NITROGEN FERT. NUT. (POUND)	PHOSPHORUS FERT. NUT. (POUND)	POTASSIUM FERT. NUT. (POUND)	AG. GROUND LIMESTONE (TON)
LOCATION #1	518+50	-	519+30	LT	80	20	0.04	0.04	3.6	3.6	3.6	0.08
	518+50	-	519+30	RT	80	20	0.04	0.04	3.6	3.6	3.6	0.08
	519+60	-	520+30	LT	70	20	0.03	0.03	2.7	2.7	2.7	0.06
	519+60	-	520+30	RT	70	20	0.03	0.03	2.7	2.7	2.7	0.06
LOCATION #2	44+50	-	44+90	LT	40	20	0.02	0.02	1.8	1.8	1.8	0.04
	44+50	-	44+90	MEDIAN	40	15	0.01	0.01	0.9	0.9	0.9	0.02
	44+50	-	44+90	RT	40	20	0.02	0.02	1.8	1.8	1.8	0.04
	45+05	-	45+60	LT	55	20	0.03	0.03	2.7	2.7	2.7	0.06
	45+05	-	45+60	MEDIAN	55	15	0.02	0.02	1.8	1.8	1.8	0.04
	45+05	-	45+60	RT	55	20	0.03	0.03	2.7	2.7	2.7	0.06
TOTALS							0.27	0.27	24.3	24.3	24.3	0.54

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHPND	



SEE SHEET 2 OF 5 FOR DIMENSIONS, DETAILS, AND NOTES.



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	LOCATION #1 (SN 085-0030)				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -	PLAN & DITCH PROFILE				VAR.	D6 RIP RAP 2017	VAR.	29	5
	PLOT SCALE = 100.0000' / 1" =	DATE -	REVISED -	SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.				CONTRACT NO. 72J87				
	PLOT DATE = 3/29/2017							ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
550	10(B) Schuyler	69	35	10 SHEETS

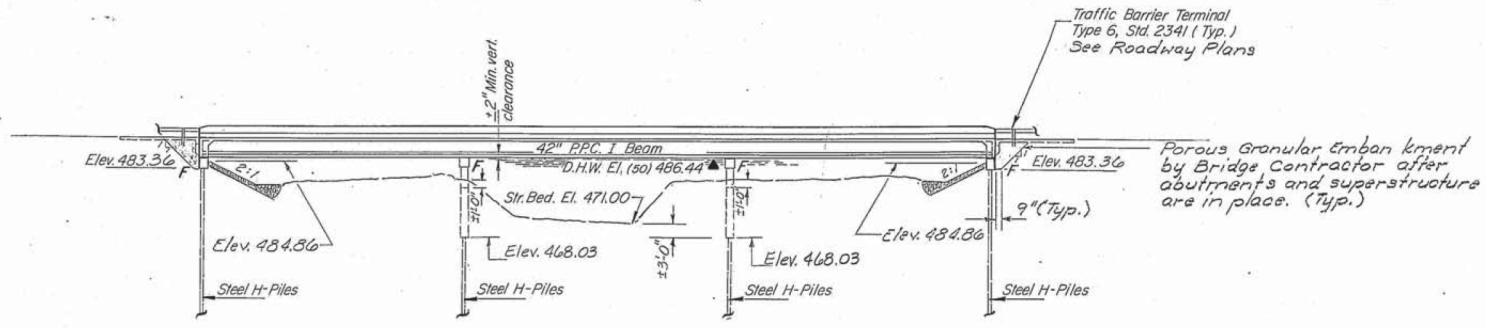
Bench Mark: Chiseled 'a' on N.E. Wingwall of bridge, 66' Rl. Sta. 520+16.00 Elev. 489.17

Existing Structure: 085-0018, Built as F.A. Rte. 153, Sec. 10-B at 519+45.00, in the year 1938. Bk. to Bk. abuts. — 148'-6", Out to Out watertable — 28'-4". Reinf. Conc. slab on 3 span continuous wide flange beams. Spill thru conc. abuts. and steel trestle piers. The contractor shall remove the existing structure and build a new one consisting of 7'-2" R.C. slab on 3 span continuous P.P.C. I beams, on integral abuts. and pile bent piers. The E of the new structure shall be parallel to the existing and 50' to the west of it. Traffic shall be maintained on the existing structure during the construction of the new bridge.

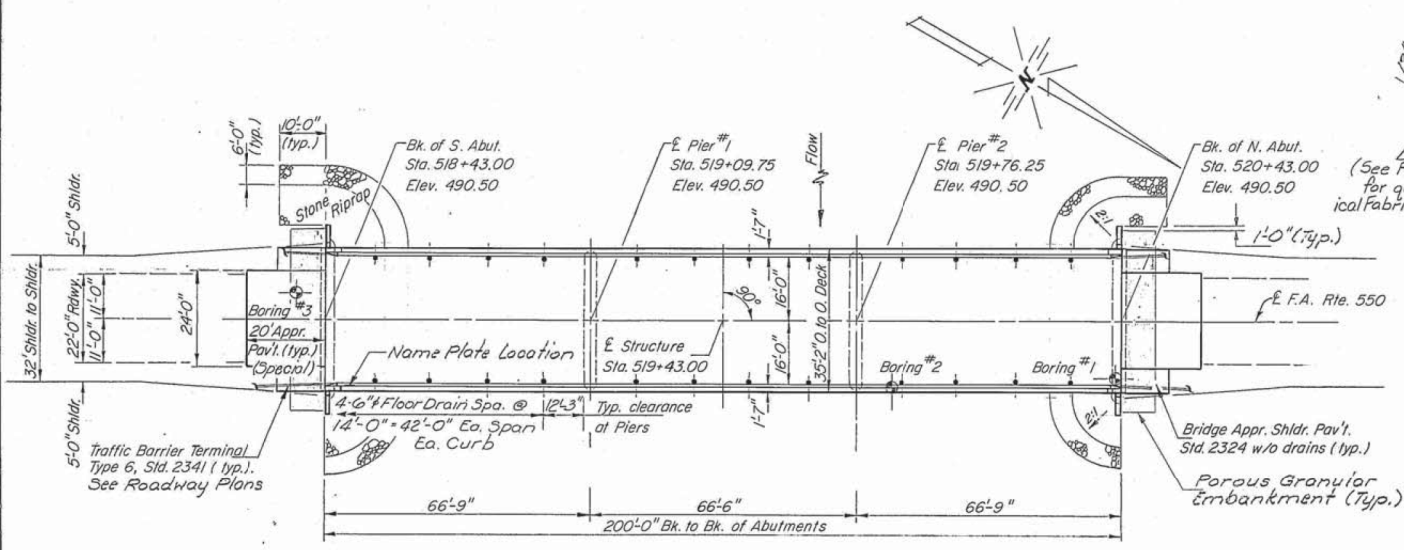
No Salvage.

GENERAL NOTES

See Proposal for Boring Data:
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-33 Grade 60.
Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
The Contractor shall drive two (2) steel (HP12x53) test piles in a permanent location, one (1) at Pier #1, and one at the South Abutment as directed by the Engineer before ordering the remainder of piles.



ELEVATION



PLAN

STATION 519+43.00
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 550 SEC. 10B-5
F.A. PROJ.
LOADING HS20
STR. NO. 085-0030

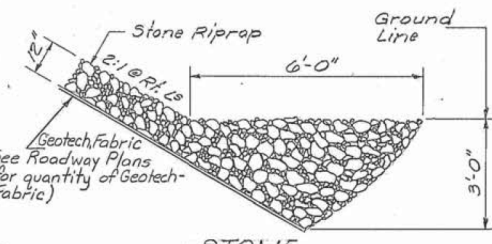
NAME PLATES
(See Std. 2113)

DESIGN SPECIFICATIONS
AASHTO (1983) and 1984 Interim.

LOADING HS 20-44
Allow 25^{sq} ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS
f_c = 5,000 psi
f_{ci} = 4,000 psi
f_s = 270,000 psi (1/2" Strands)
f_{si} = 189,000 psi (1/2" Strands)



STONE RIPRAP DETAIL

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Porous Granular Embankment	Cu. Yd.		73	73
Structure Excavation	Cu. Yd.		162	162
Floor Drains	Each	24		24
Protective Coat	Sq. Yd.	874		874
Removal of Existing Structures No. 5	Each	1		1
Class X Concrete	Cu. Yd.	254.8	81.1	335.9
Furnishing & Erecting P.P.C. I-Beams (42")	Lin. Ft.	990		990
Reinforcement Bars	Lbs.	2,360	11,850	14,210
Reinforcement Bars (Epoxy Coated)	Lbs.	50,270		50,270
Steel Piles (HP12x53)	Lin. Ft.		963	963
Test Piles Steel (HP12x53)	Each		2	2
Stone Riprap	Sq. Yd.		315	315
Name Plates	Each	1		1

WATERWAY INFORMATION

		Drainage Area = 48.3 sq. mi		Low Grade Elev. (E.) 484.0 ± (P.) 490.0 ± @ Sta. 473+00.00						
Flood	Design	C.F.S.		Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
		Exist.	Prop.	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
50	Bridge	4700	5300	1320	1355	486.44	0.12	0.26	486.56	486.70
	Rdwy.	2029	0							
	Total	6729	5300	1320	1355					
100	Bridge	2344	6209	1320	1545	487.44	0.08	0.31	487.52	487.75
	Rdwy.	4232	0							
	Total	6576	6209	1320	1545					
500	Bridge			8131	1788	488.90		0.48		489.38
	Rdwy.			0						
	Total			8131	1788					

PROFILE GRADE
F.A. Rte. 530
(Along E. Roadway)

March 14 1986
DESIGNED: D. P. Schmidt
EXAMINED: Craig J. Kaspar
CHECKED: J. Schneller
DRAWN: P.W.S.
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS



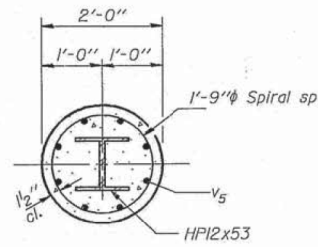
GENERAL PLAN
ILL. ROUTE 99 OVER MISSOURI CREEK
F.A. ROUTE 550 SECTION 10 B-5
SCHUYLER COUNTY
STATION 519+43.00
STRUCTURE NUMBER 085-0030

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

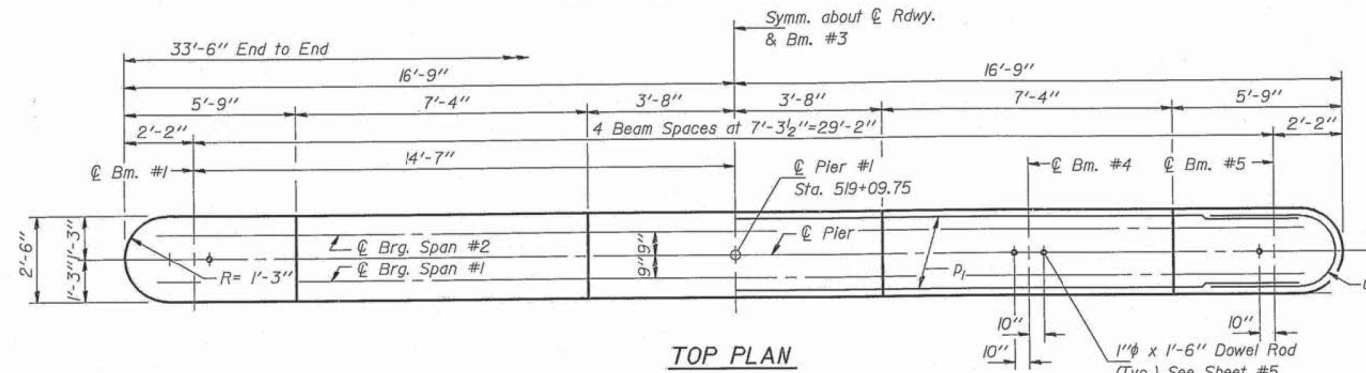
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 550	10B-5	Brown-Schuyler	69	43
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 9
10 SHEETS

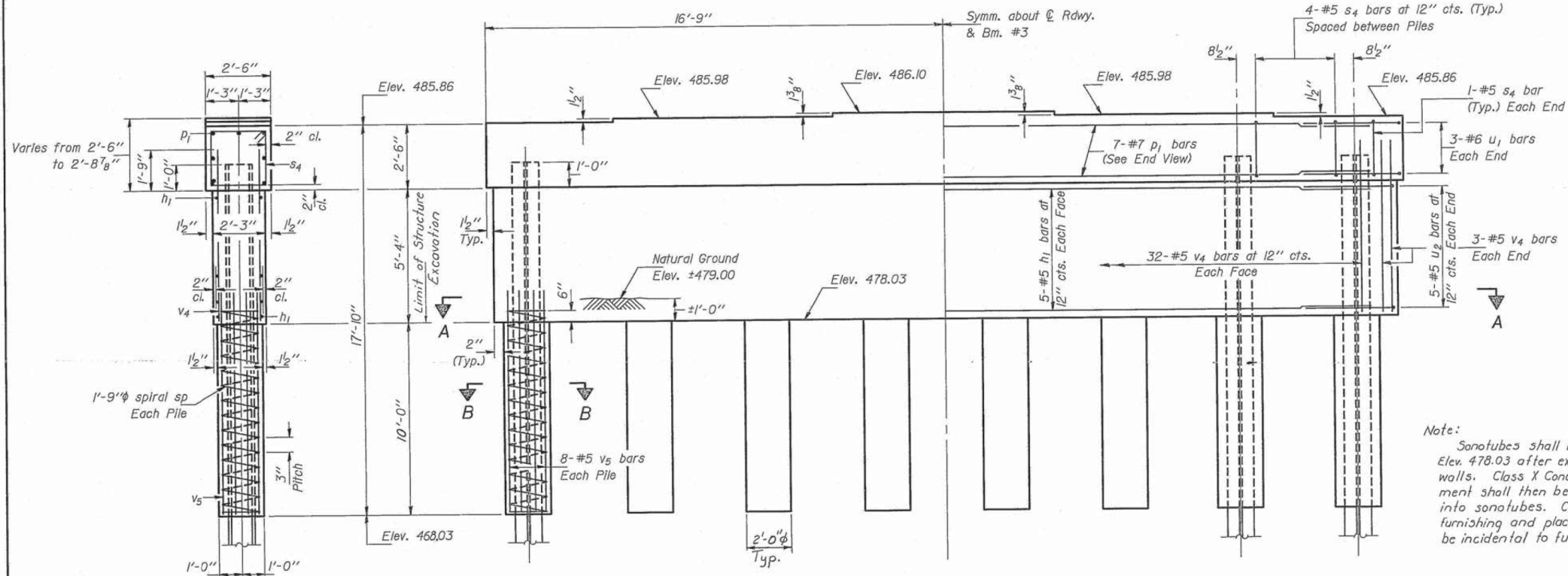
Notes: All edges shall have standard 3/4" chamfer except as noted.
Pour steps monolithically with cap.



SECTION B-B



TOP PLAN



ELEVATION
(Looking North)

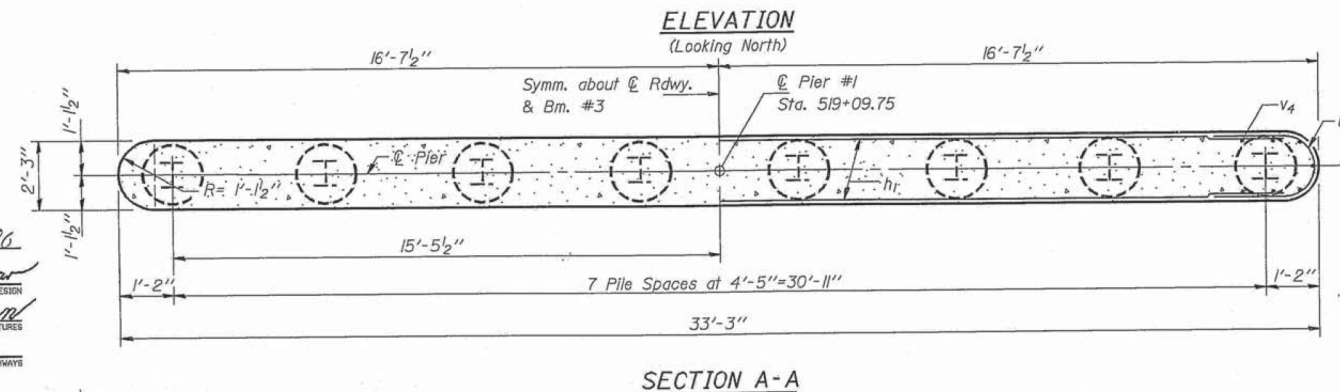
END VIEW

PILE DATA

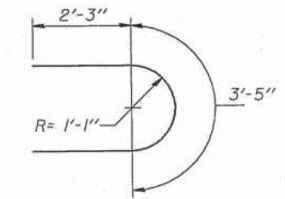
Type: Steel (HPI2x53)
Capacity: Drive to Refusal
Est. Length: 32 Ft.
No. Required: 7 Piles plus 1 test pile

DESIGNED <i>John F. Schneller Jr.</i>	EXAMINED <i>James J. Schuyler</i>
CHECKED <i>John F. Schneller Jr.</i>	PASSED <i>James J. Schuyler</i>
DRAWN <i>John F. Schneller Jr.</i>	APPROVED <i>James J. Schuyler</i>
CHECKED <i>GAA</i>	DIRECTOR OF HIGHWAYS

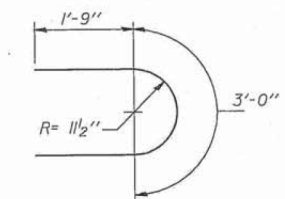
March 14 1986



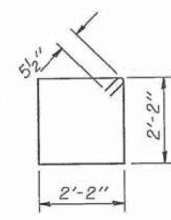
SECTION A-A



BAR U1



BAR U2



BAR S4

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1	10	#5	31'-0"	—
D1	7	#7	31'-0"	—
S4	30	#5	9'-7"	□
U1	6	#6	7'-11"	—
U2	10	#5	6'-6"	—
V4	70	#5	7'-0"	—
V5	64	#5	12'-3"	—
sp	8	#4	10'-6"	
Class X Concrete			Cu. Yds.	31.8
Reinforcement Bars			Lbs.	4080
Steel Piles (HPI2x53)			Lin. Ft.	224
Test Piles (HPI2x53)			Each	1

Note: Sonotubes shall be placed below Elev. 478.03 after excavation for pier walls. Class X Concrete and Reinforcement shall then be placed underwater into sonotubes. Cost of excavation, furnishing and placing sonotubes shall be incidental to furnishing piles.

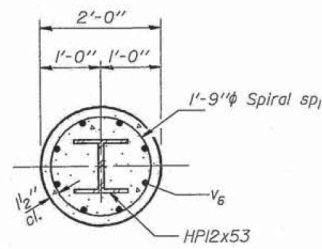
* Length is height of spirals.
** Weight includes spacers for spirals.

PIER #1
F.A. RT. 550 SEC. 10B-5
SCHUYLER COUNTY
STA. 519+43.00

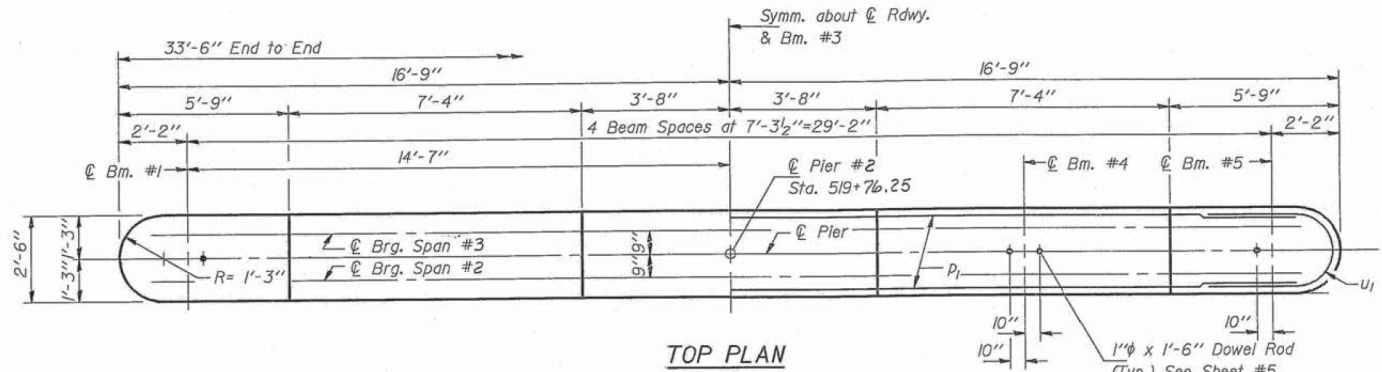
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
550	10B-5	Schuylers	69	44
F.A. RT. 550		ILLINOIS		FED. AID PROJECT

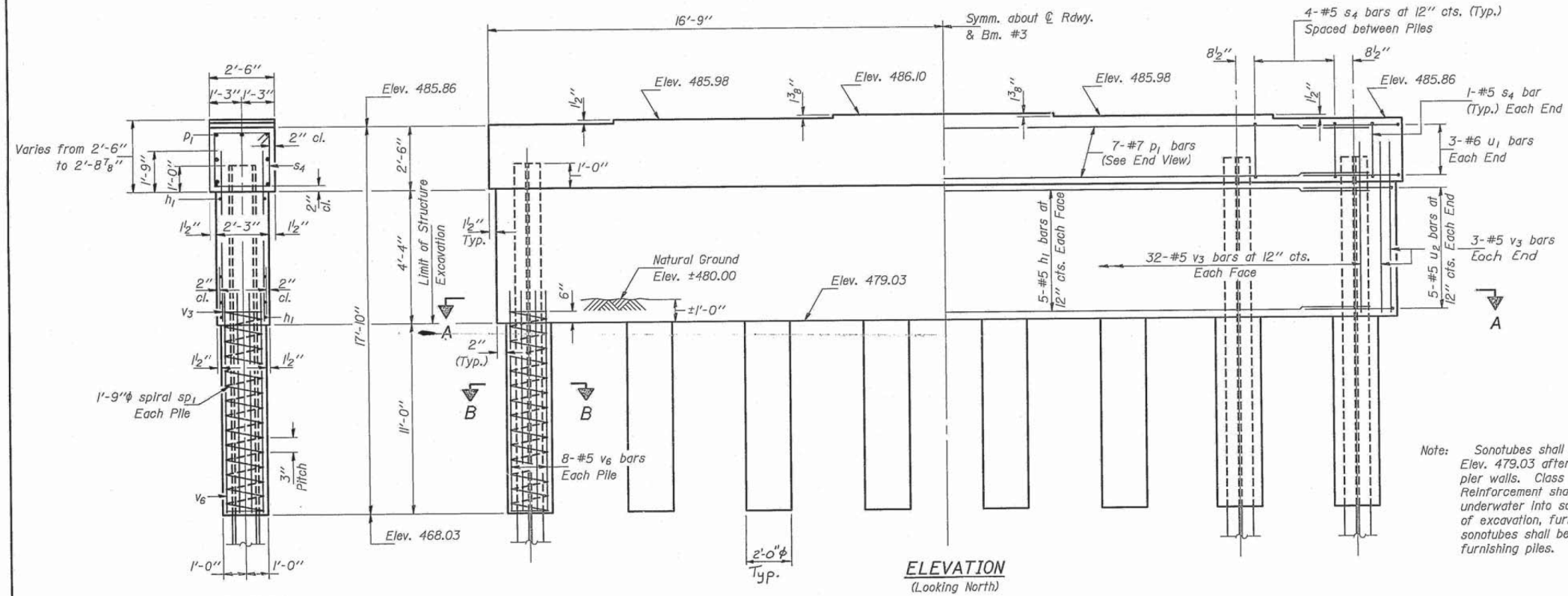
Notes: All edges shall have standard 3/4" chamfer except as noted.
Pour steps monolithically with cap.



SECTION B-B



TOP PLAN



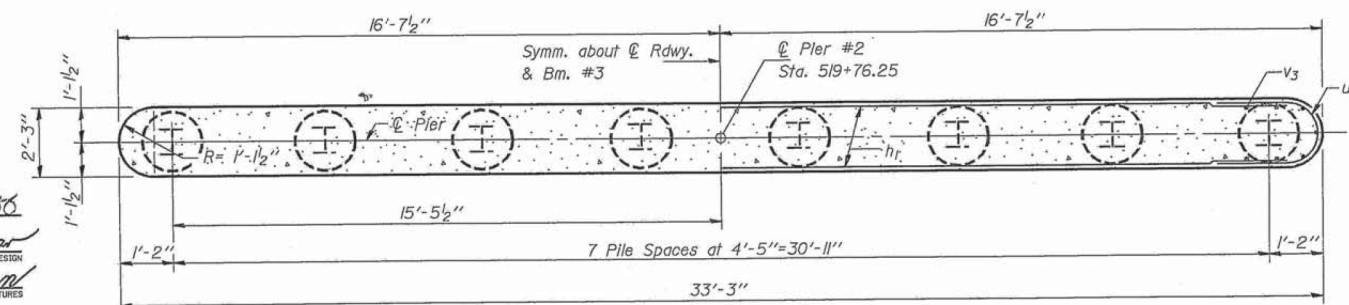
ELEVATION
(Looking North)

END VIEW

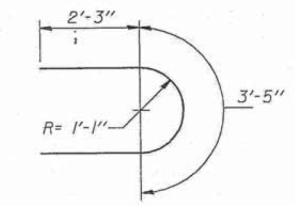
PILE DATA

Type: Steel (HPI2x53)
Capacity: Drive to Refusal
Est. Length: 32 Ft.
No. Required: 8

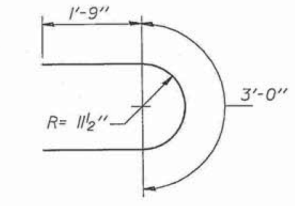
DESIGNED	John F. Schneller Jr.	EXAMINED	James J. Reardon
CHECKED	John F. Schneller Jr.	PASSED	James J. Reardon
DRAWN	John F. Schneller Jr.	APPROVED	James J. Reardon
CHECKED	John F. Schneller Jr.		



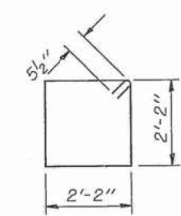
SECTION A-A



BAR U1



BAR U2



BAR S4

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1	10	#5	31'-0"	—
p1	7	#7	31'-0"	—
s4	30	#5	9'-7"	□
u1	6	#6	7'-11"	U
u2	10	#5	6'-6"	U
v3	70	#5	6'-0"	—
v6	64	#5	13'-3"	—
sp1	8	#4	11'-6"	
Class X Concrete			Cu. Yds.	30.0
Reinforcement Bars			Lbs.	4210
Steel Piles (HPI2x53)			Lin. Ft.	256

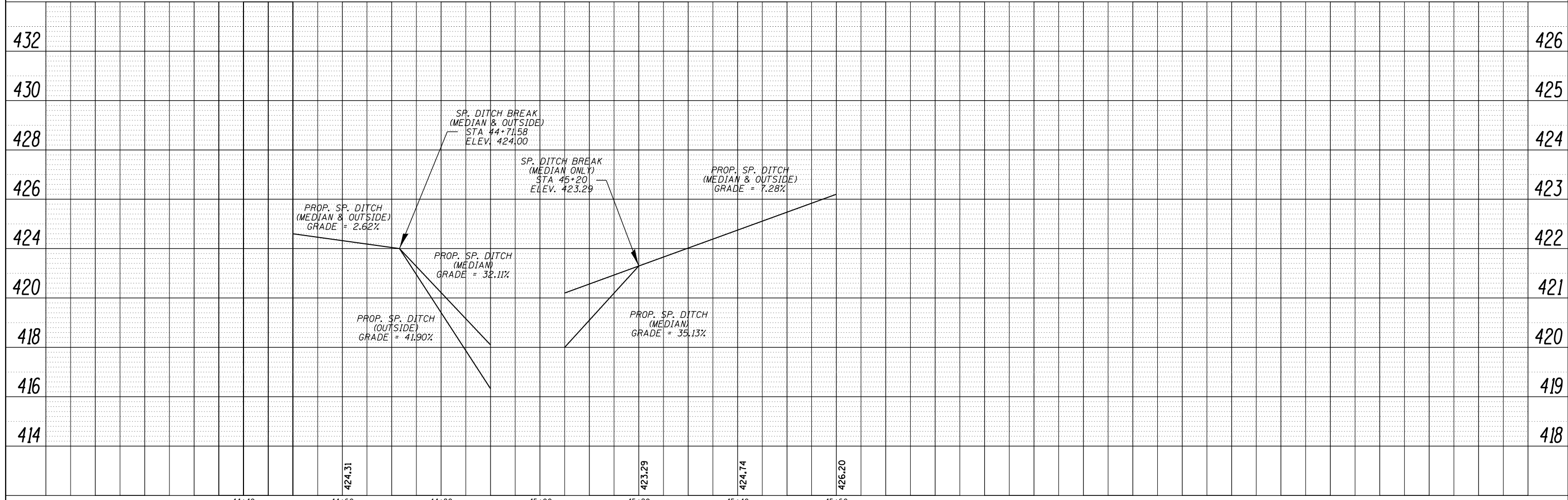
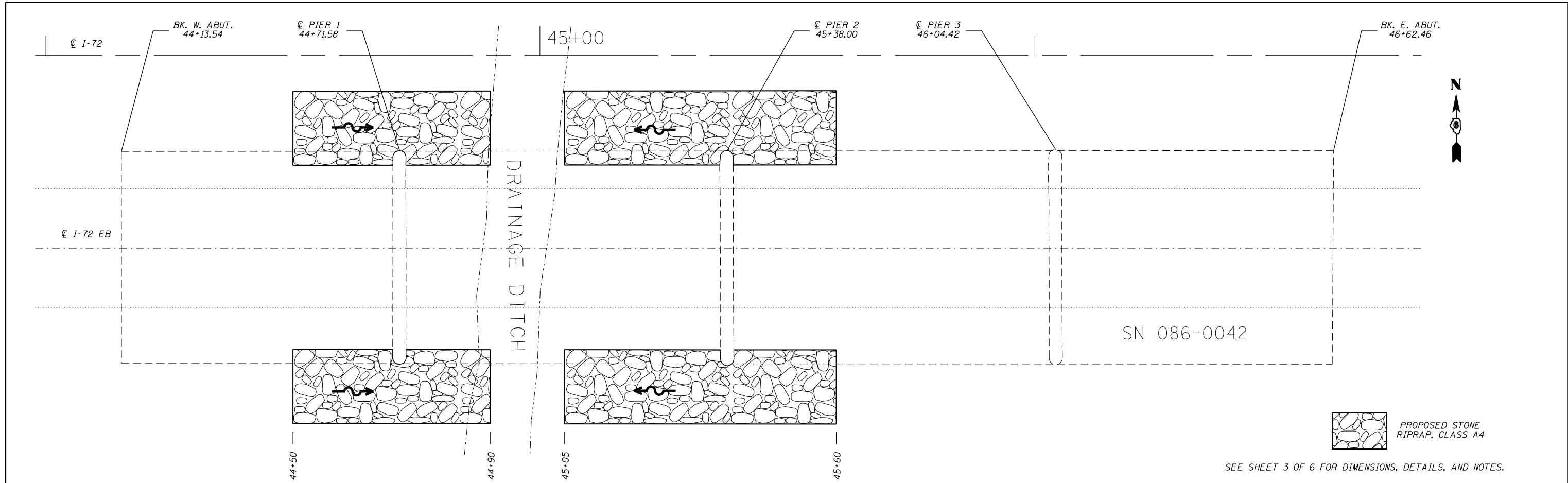
Note: Sonotubes shall be placed below Elev. 479.03 after excavation for pier walls. Class X Concrete and Reinforcement shall then be placed underwater into sonotubes. Cost of excavation, furnishing and placing sonotubes shall be incidental to furnishing piles.

* Length is height of spirals.
** Weight includes spacers for spirals.

PIER #2
F.A. RT. 550 SEC. 10B-5
SCHUYLER COUNTY
STA. 519+43.00

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	FILE NAME	
	NO.	

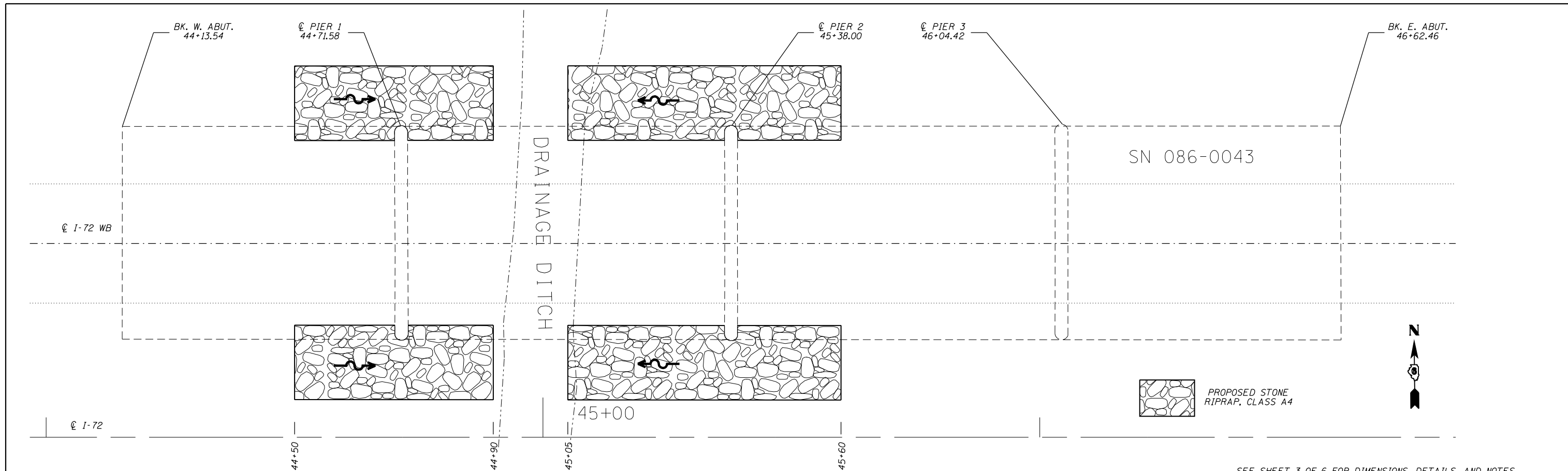
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



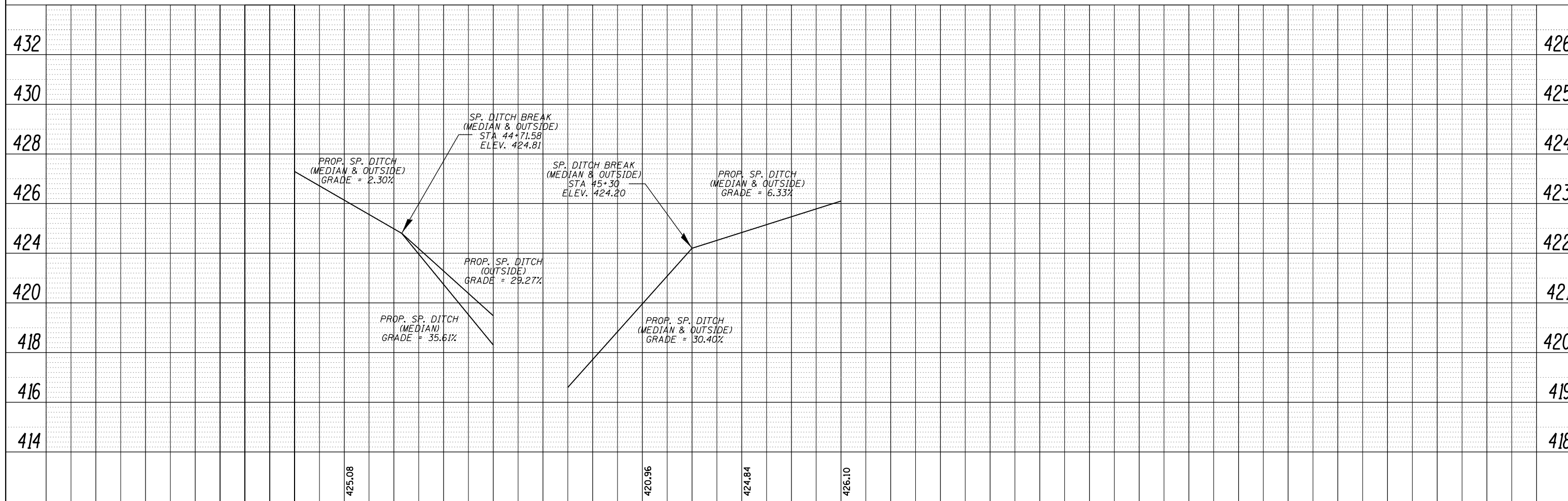
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		REVISED -	REVISED -									VAR.	D6 RIP RAP 2017	VAR.	29	10		
		CHECKED -	REVISED -									SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.				CONTRACT NO. 72J87		
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
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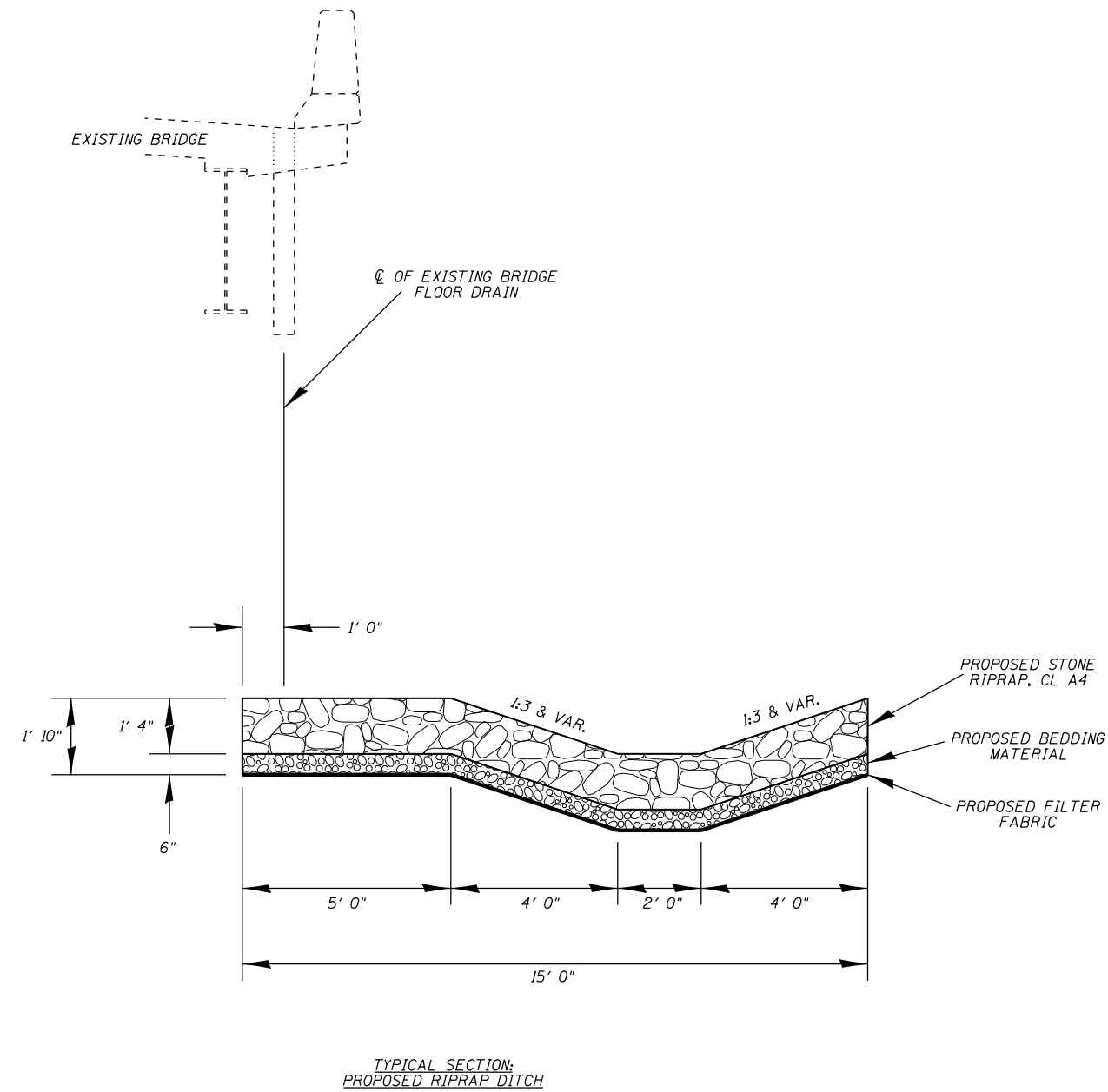
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



SEE SHEET 3 OF 6 FOR DIMENSIONS, DETAILS, AND NOTES.



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #2 (SN 086-0043) PLAN & DITCH PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -			VAR.	D6 RIP RAP 2017	VAR.	29	11	
	PLOT DATE = 3/29/2017	DATE -	REVISED -			CONTRACT NO. 72J87			ILLINOIS FED. AID PROJECT		
						SCALE:	SHEET 2 OF 6 SHEETS	STA.	TO STA.		



TOTAL BILL OF MATERIAL: LOCATION #2

ITEM	UNIT	QUANTITY
Earth Excavation	Cu. Yd.	185
Stone Riprap, Class A4	Sq. Yd.	634
Filter Fabric	Sq. Yd.	634
Seeding, Class 2	Acre	0.13
Nitrogen Fertilizer Nutrient	Pound	11.7
Phosphorus Fertilizer Nutrient	Pound	11.7
Potassium Fertilizer Nutrient	Pound	11.7
Agricultural Ground Limestone	Ton	0.26
Mulch, Method 2	Acre	0.13

LOCATION #2 NOTES:

1. FILL AREAS SHOWN IN THE CROSS SECTIONS SHALL BE FILLED WITH EXCAVATED MATERIAL. FILLS SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND SHALL NOT BE MEASURED FOR PAYMENT SEPARATELY. COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER. ALL OTHER DENSITY REQUIREMENTS SHALL BE WAIVED.
2. SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE, COST INCLUDED WITH EARTH EXCAVATION.
3. EXISTING ROW IS 210' LT AND RT OF I-72 \varnothing . ALL WORK ACTIVITIES SHALL BE CONTAINED ON EXISTING ROW.

EXISTING CONTROL POINTS:

BM RK 50
 ADJ. NAVD 88' ELEVATION = 449.198
 CHSLD SQUARE TOP NE PARAPET WALL STR # 086-0043
 WBL I-72 \varnothing STA 46+70.4; 62.1 LT

BM RK 51
 NAVD 88' ELEVATION = 449.317
 CHSLD SQUARE TOP NW PARAPET WALL STR # 086-0042
 EBL I-72 \varnothing STA 44+06.2; 19.9 RT

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
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Default	PLOT DATE = 3/29/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION #2:
 DETAILS AND NOTES**

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 RIP RAP 2017	VAR.	29	12
			CONTRACT NO. 72J87	
ILLINOIS FED. AID PROJECT				

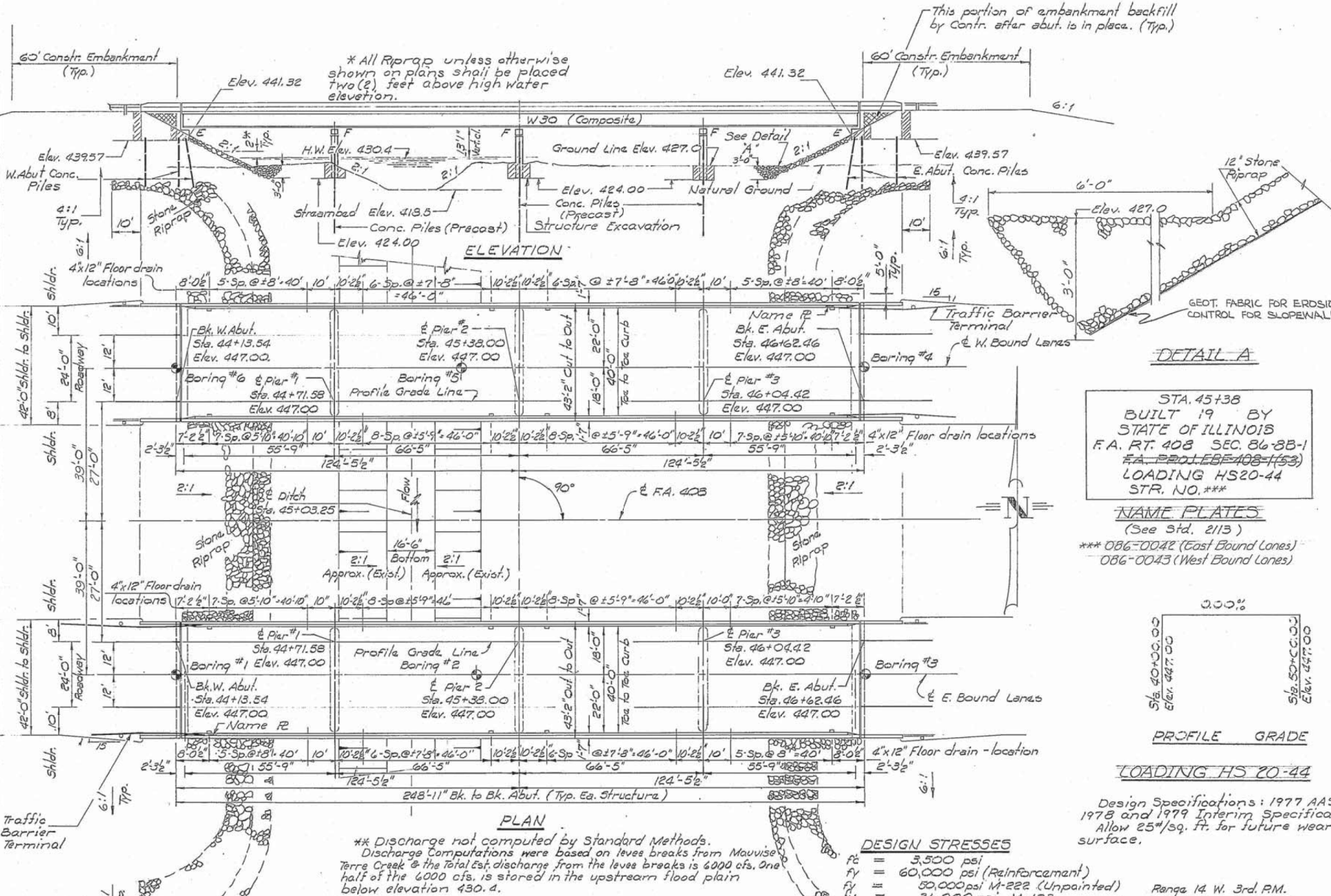
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
R. 403	86-88-1	Scott	176	45	16 SHEETS
F.A. RT. 403		ILLINOIS	FED. AID PROJECT	45	

B.M. #603 L.A. Elev. 444.16 Center brass cap in concrete monument top of levee. Sta. 104+00 (E.B.) 520' Lt.
No Existing Structure:

GENERAL NOTES

See Proposal for Boring Data.
Fasteners shall be high strength bolts, A.A.S.H.T.O. M-164, Type 3 bolts 3/4" x, open holes 1 1/8" unless otherwise noted.
All structural steel shall be AASHTO M-222 except exp. joint angles and attached bars which shall be AASHTO M-183.
Expansion joint angles and attached bars shall be shop pointed with the zinc-silicate primer.
Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports.
Calculated weight of Structural Steel:
M-222 = 411,820 Lbs.
M-183 = 5,990 Lbs.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. The components are the tension flanges, webs and all splice plate material of the wide flange beams.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
Concrete piles at abutments shall be driven in holes precast through the embankment in accordance with Article 513.09(c) of the Standard Specifications.
AASHTO M222 structural steel shall not be painted except, that for a distance of three times the depth of the beams each way of the deck joints, the AASHTO M222 structural steel shall be cleaned and given one coat of the zinc-silicate primer and a dark maroon vinyl finish coat. Both coats to be applied in the shop with spot painting only in the field.
The Contractor shall drive one (1) concrete test pile in a permanent location at Pier #2 and East Abutment West Bound Lanes and one (1) at West Abutment East Bound Lanes as directed by the Engineer before ordering remainder of piles; (Test pile at Pier #2 shall be Precast).

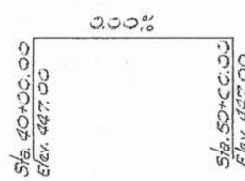


DETAIL A

STA. 45+38
BUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 403 SEC. 86-88-1
F.A. PROJECT 403-1(53)
LOADING HS20-44
STR. NO. ***

NAME PLATES

(See Std. 2113)
*** 086-0042 (East Bound Lanes)
086-0043 (West Bound Lanes)



PROFILE GRADE

LOADING HS20-44

Design Specifications: 1977 AASHTO 1978 and 1979 Interim Specification. Allow 25/sq. ft. for future wearing surface.

DESIGN STRESSES

- f_c = 3,500 psi
- f_y = 60,000 psi (Reinforcement)
- f_y = 50,000 psi M-222 (Unpainted)
- f_y = 34,000 psi M-183

WATERWAY INFORMATION

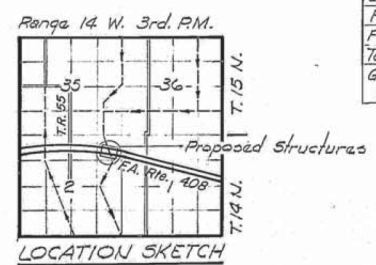
Drainage Area 6.2 Sq. Miles						
Flood	Freq. Yrs.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.M.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	100	1316	940 430.4	430.4	0.0	430.4
Base	50	3008	940 430.4	430.4	0.0	430.4

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete	Cu. Yds.	623.4	527.2	1150.6
Reinforcement Bars	Lbs.		42,480	42,480
Reinf. Bars (Epoxy Coated)	Lbs.	171,280		171,280
Structure Excavation	Cu. Yds.		490	490
Structural Steel	Lump Sum	1		1
Protective Coat	Sq. Yds.	2620		2620
Stud Shear Connectors	Each	8280		8280
Preformed Jt. Seal (4")	Lin. Ft.	173		173
Name Plates	Each	2		2
Concrete Piles	Lin. Ft.	1876		1876
Test Piles (Concrete)	Each	2		2
Stone Riprap, Special	Sq. Yds.		1584	1584
Elast. Brg. Assembly, Type II	Each	24		24
Floor Drains	Each	120		120
Precast Concrete Piles (M')	Lin. Ft.		3586	3586
Test Piles (Precast Concrete)	Each		1	1
Geot. Fabric for Erosion Control for Slope Wall	Sq. Yd.		1584	1584

GENERAL PLAN

F.A. Rte. 403 (U.S. Rte. 36) Over DRAINAGE DITCH
F.A. Rte. 403 SECTION 86-88-1
SCOTT COUNTY
Sta. 45+38



LOCATION SKETCH

DESIGNED ALEX SIUDYLA
CHECKED Paul S. McKeay
J. SCHNEIDER
DRAWN
CHECKED ALEX SIUDYLA
EXAMINED
PASSED
APPROVED
JUNE 3 1980

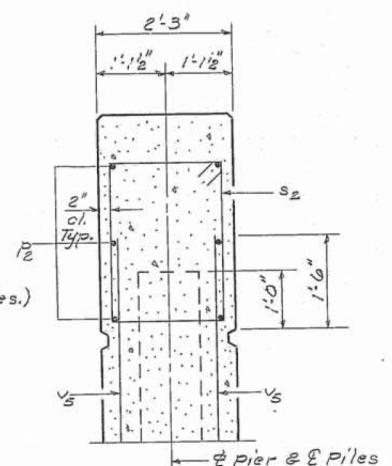
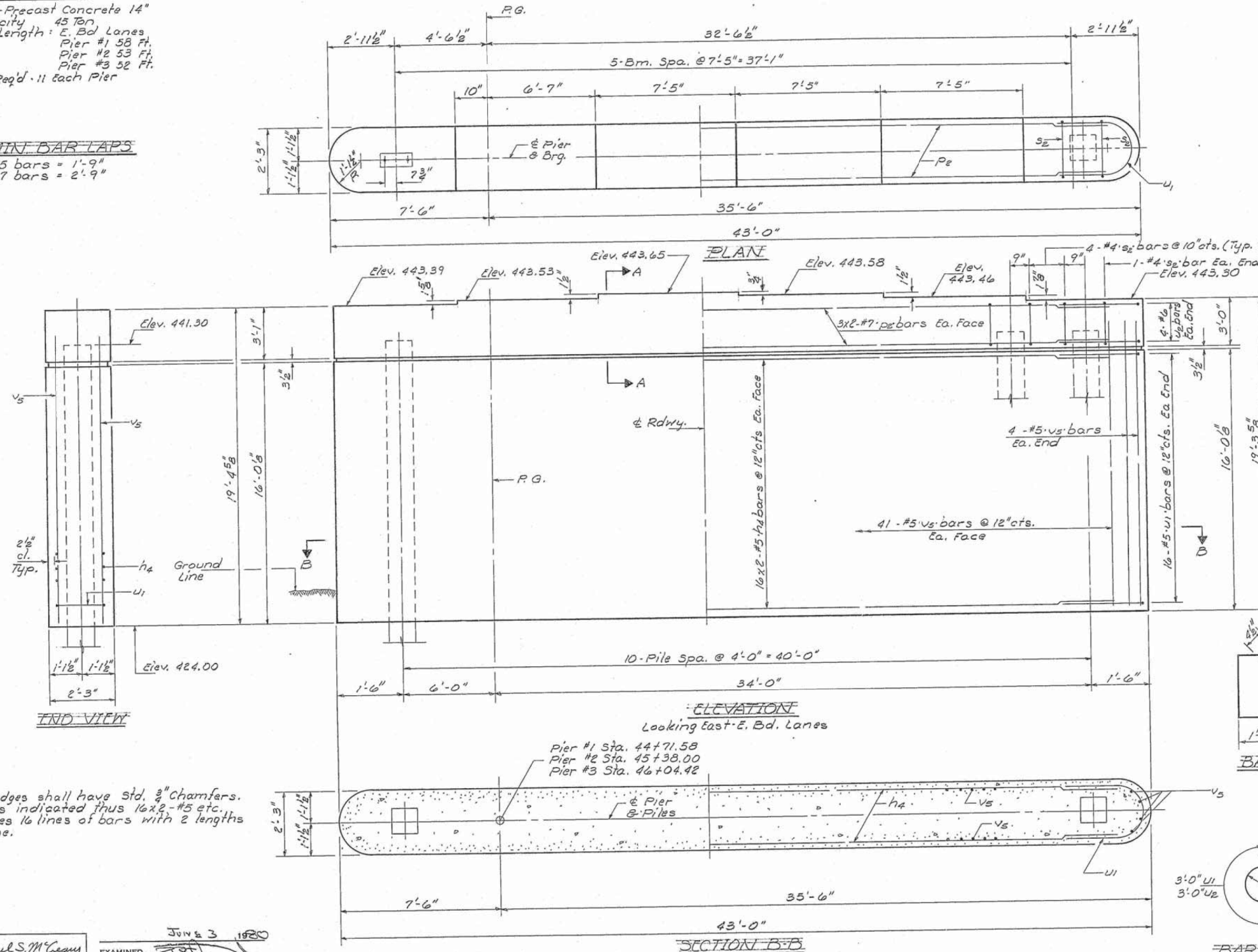
Revised 3-31-86 ALC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

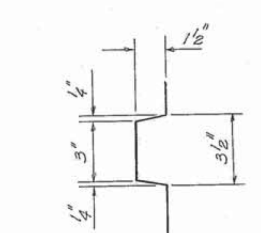
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FA RT. 408	86-88-1	Scott	176	57	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

PILE DATA
 Type - Precast Concrete 14"
 Capacity 45 Ton
 Est. Length: E. Bd Lanes
 Pier #1 58 Ft.
 Pier #2 53 Ft.
 Pier #3 52 Ft.
 No. Req'd - 11 Each Pier

MINI BAR LAPS
 #5 bars = 1'-9"
 #7 bars = 2'-9"



SECTION A-A
Pier & Piles



NOTCH DETAIL

THREE PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4	192	#5	21'-3"	
pe	36	#7	21'-9"	
se	126	#4	9'-11"	□
u1	96	#5	10'-6"	U
ue	24	#6	10'-6"	U
vs	270	#5	17'-9"	
Class X Concrete		Cu Yds.	179.7	
Reinforcement Bars		Lbs.	13,120	
Precast Conc. Piles (14")		Lin. Ft.	1793	

PIERS #1, #2 & #3
EAST BOUND LANES
FA RT. 408 SEC. 86-88-1
SCOTT COUNTY
STA. 45+38

NOTES:
All edges shall have Std. 3" Chamfers.
Bars indicated thus 16x2-#5 etc.
indicates 16 lines of bars with 2 lengths per line.

DESIGNED Paul S. M. Casey	EXAMINED	July 3 1920
CHECKED ALEX SIUDYLA	PASSED	
DRAWN J. SCHNELLER	APPROVED	
CHECKED P.S.M.		

Revised 3-31-86 ALC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

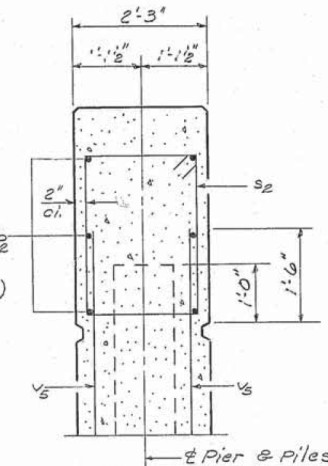
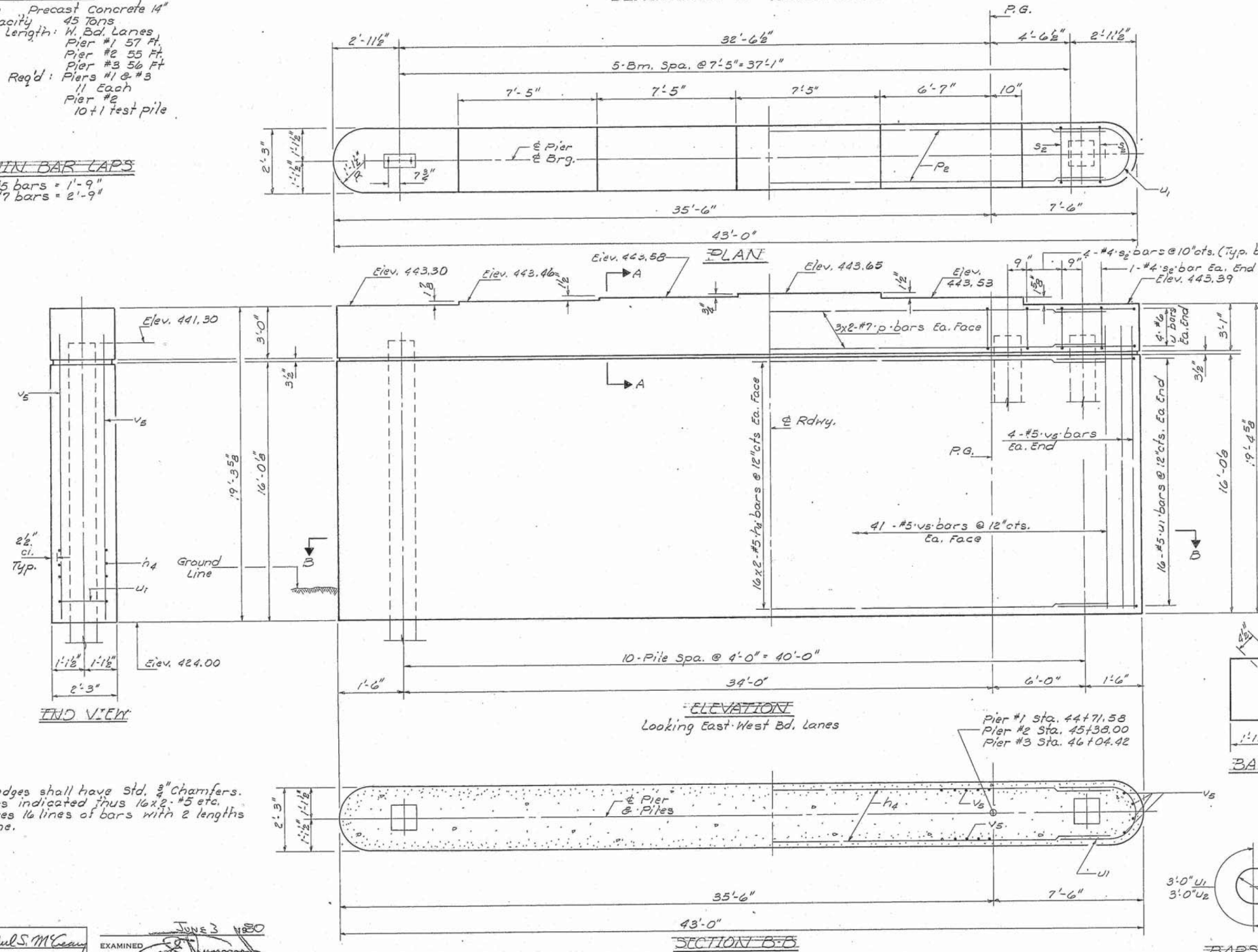
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F.A. RT. 408	86-88-1	Scott	58	16 SHEETS
FED. AID DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PILE DATA

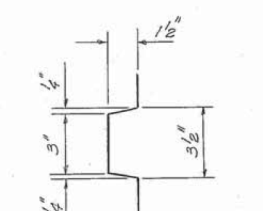
Type: Precast Concrete 14"
Capacity: 45 Tons
Est. Length: W. Bd. Lanes
Pier #1 57 Ft.
Pier #2 55 Ft.
Pier #3 56 Ft.
No. Req'd: Piers #1 & #3
11 Each
Pier #2
10 + 1 test pile

MINI BAR LAPS

#5 bars = 1'-9"
#7 bars = 2'-9"



SECTION A-A



NOTCH DETAIL

THREE PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4	192	#5	21'-3"	
pe	36	#7	21'-9"	
se	126	#4	9'-11"	□
u1	96	#5	10'-6"	⊔
u2	84	#6	10'-6"	⊔
v	270	#5	17'-9"	

Class X Concrete	Cu.Yds.	179.7
Reinforcement Bars	Lbs.	13,120
Precast Conc. Piles (14')	Lin. Ft.	1793
Test Piles (Prec. Conc.)	Ea.	1

PIERS #1, #2 & #3
WEST BOUND LANES
F.A. RT. 408 SEC. 86-88-1
SCOTT COUNTY
STA. 45+38

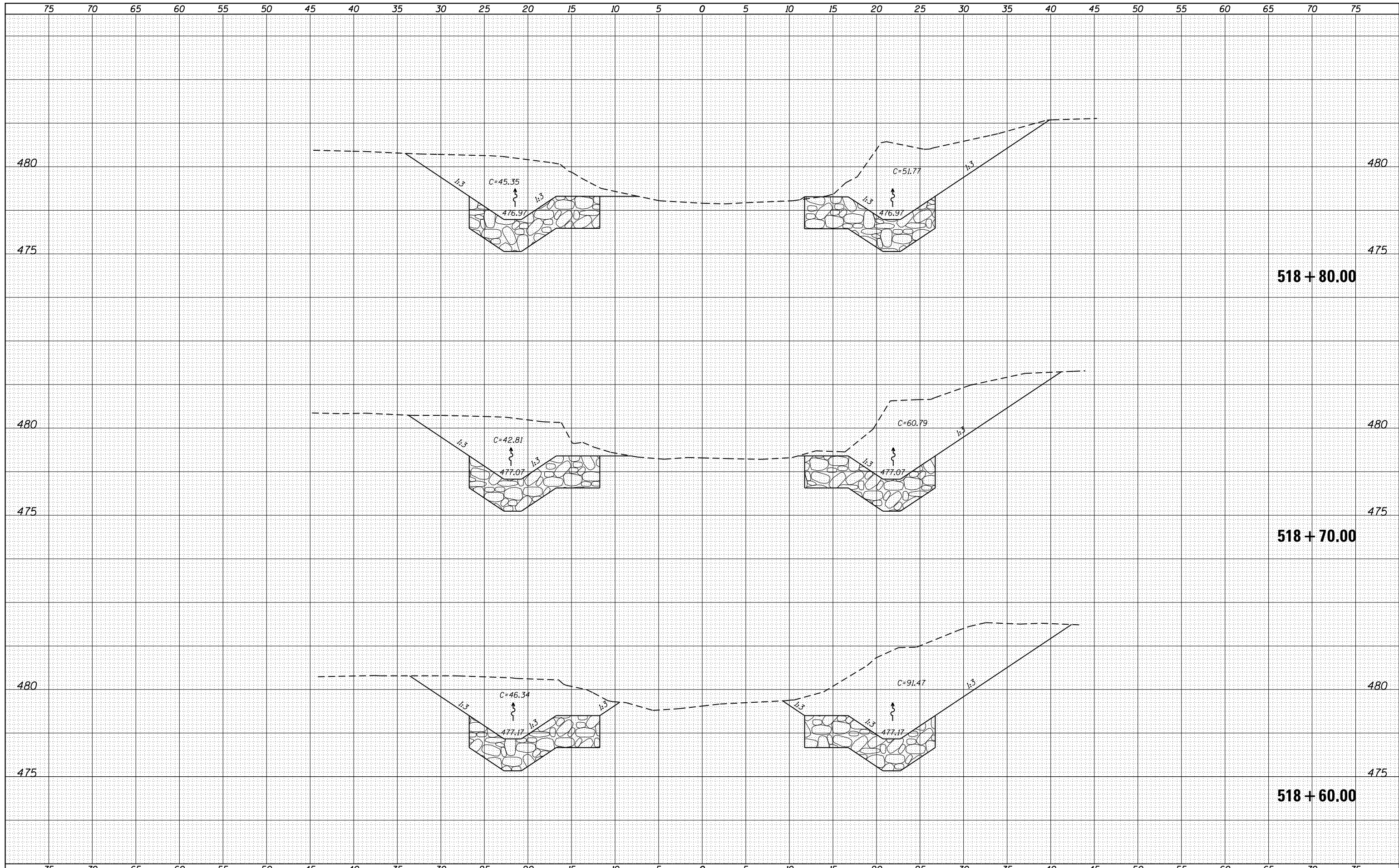
NOTES:
All edges shall have std. 3/8" Chamfers.
Bars indicated thus 16x2-#5 etc.
indicates 16 lines of bars with 2 lengths per line.

DESIGNED <u>R.S. McGeary</u>	EXAMINED <u>JUNE 3 1980</u>
CHECKED <u>ALEX SINDVIA</u>	PASSED
DRAWN <u>J. SCHNELLER</u>	APPROVED
CHECKED <u>R.S.M.</u>	

Revised 3-31-86 ALC

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FINAL SURVEY	
NOTE BOOK	
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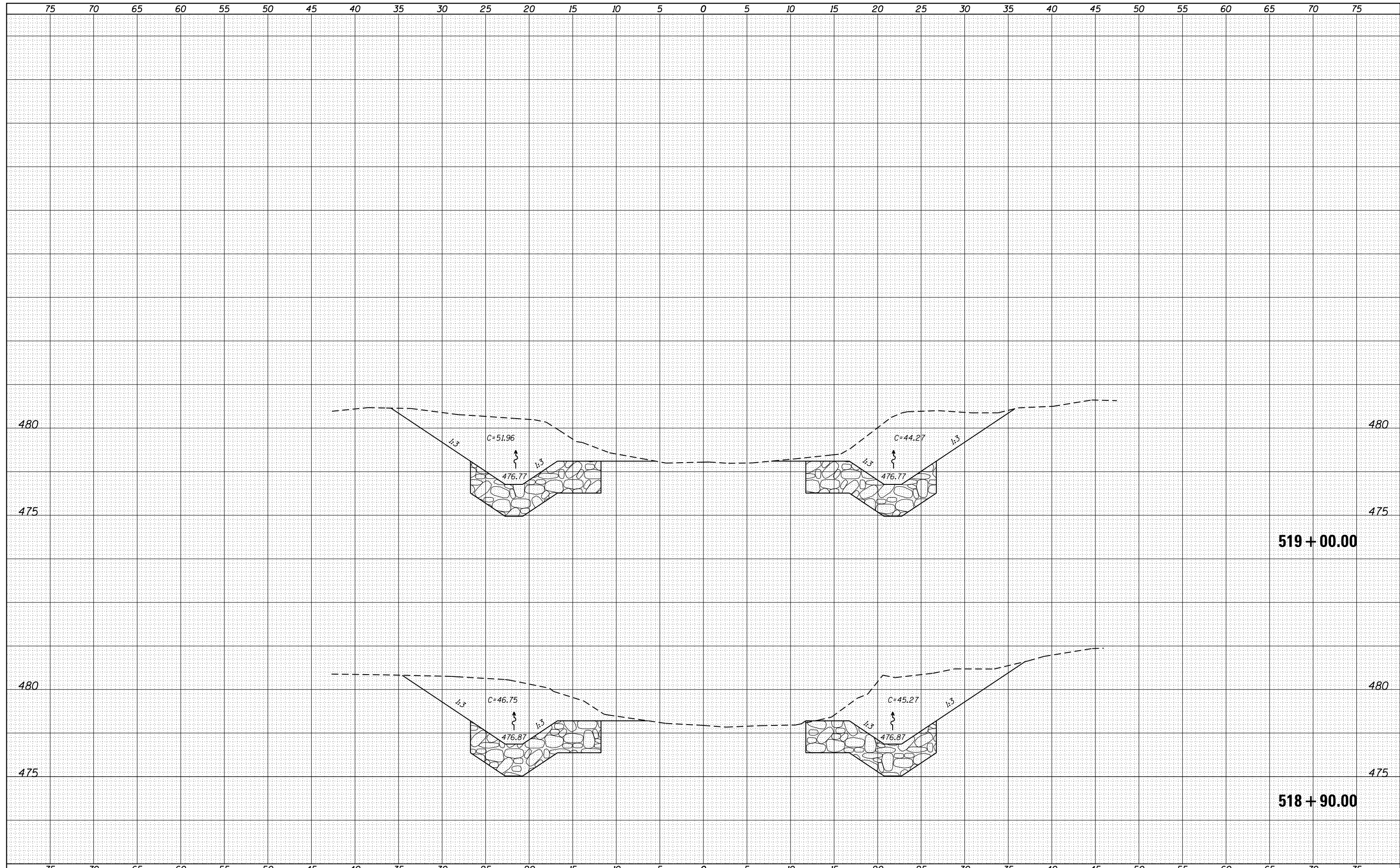
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		CHECKED -	REVISÉD -		CONTRACT NO. 72J87				
		DATE -	REVISÉD -		ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED
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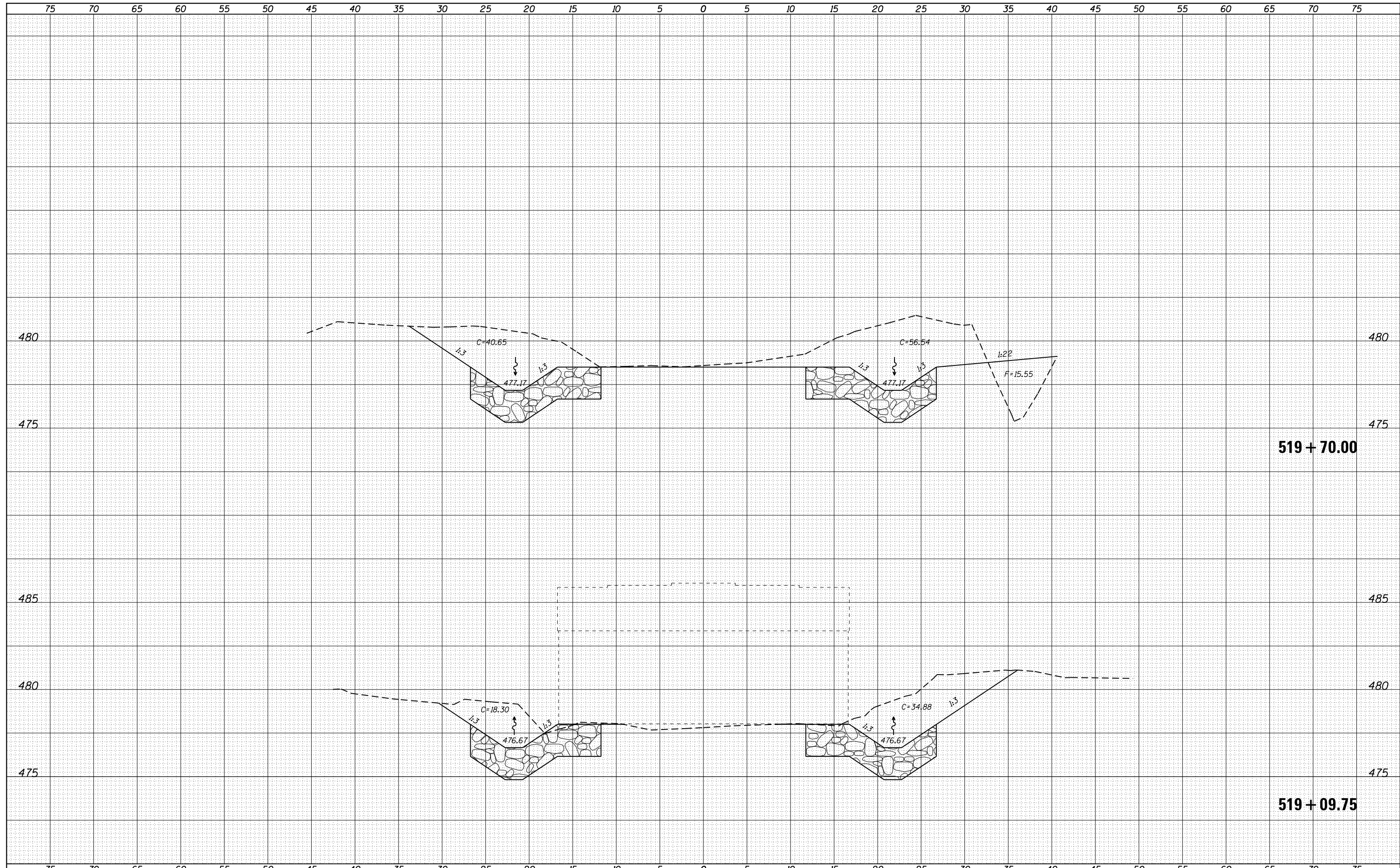
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	AREAS
	CHECKED



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		DATE -	REVISÉ -			SCALE:	SHEET	OF	SHEETS	STA. 518+90.00	TO STA. 519+00.00

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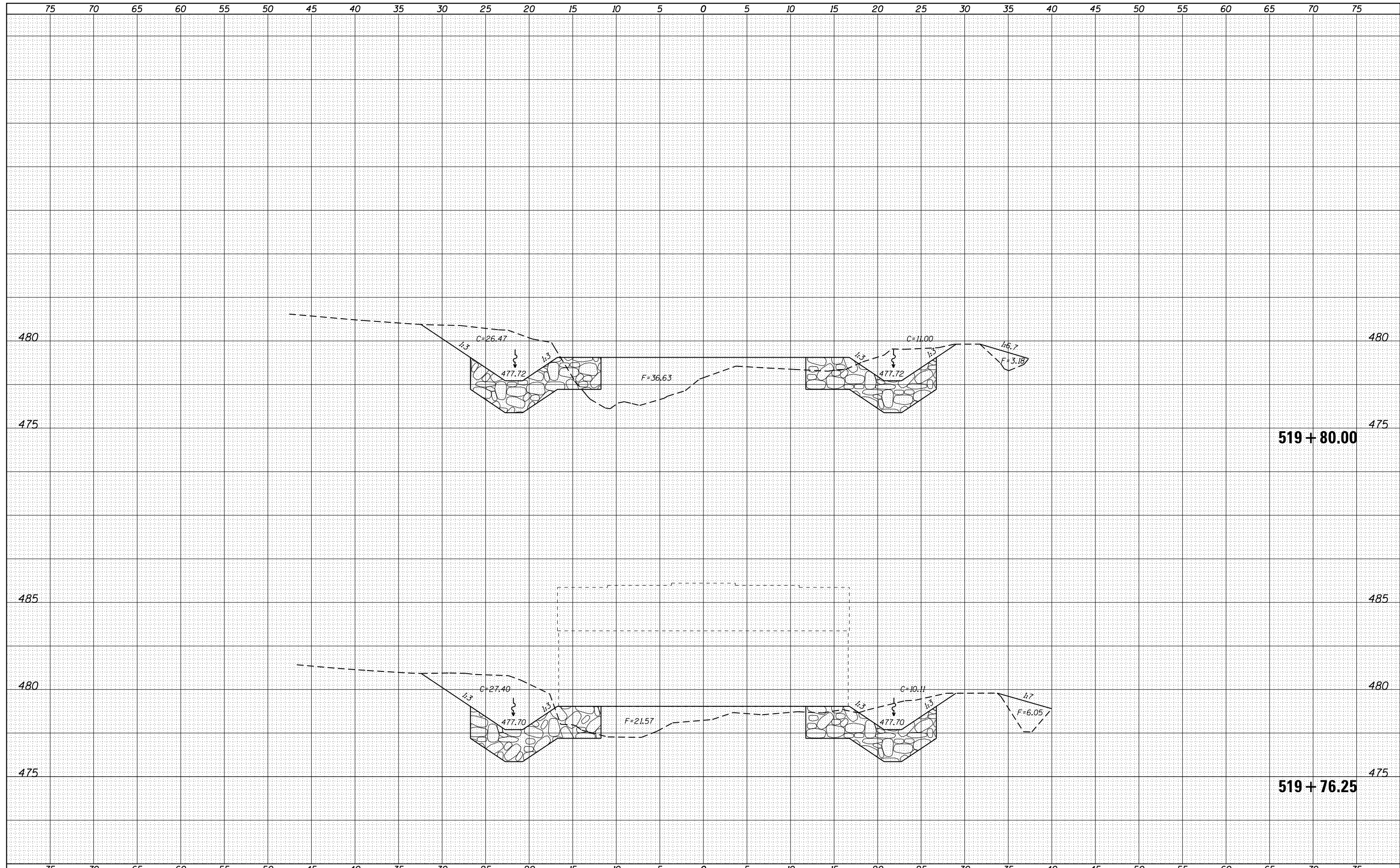
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	PLOT DATE = 3/29/2017	DATE -	REVISÉD -			SCALE:	SHEET	OF	SHEETS	STA. 519+09.90	TO STA. 519+70.00

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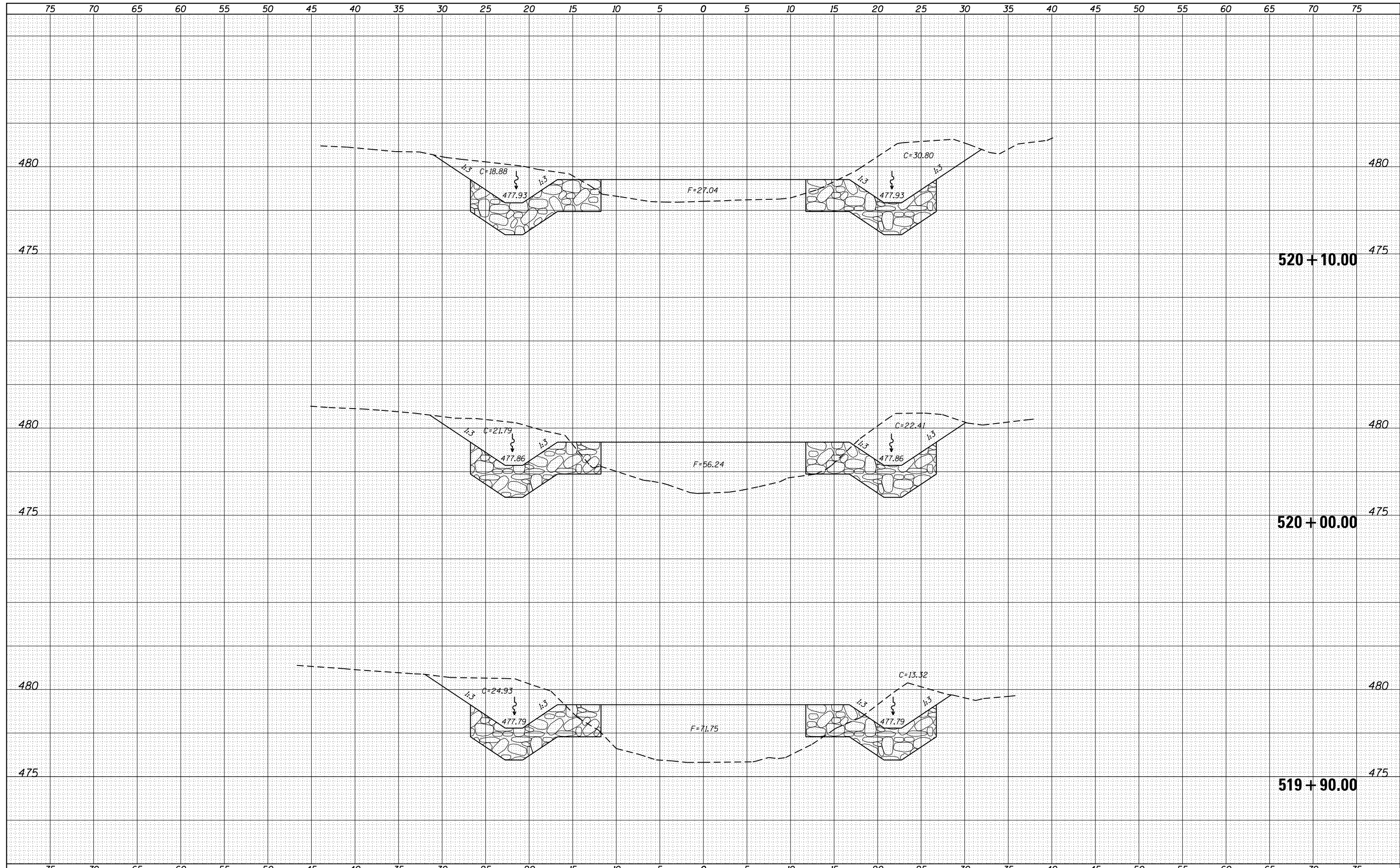
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	PLOT DATE = 3/29/2017	DATE -	REVISOR -	ILLINOIS FED. AID PROJECT										

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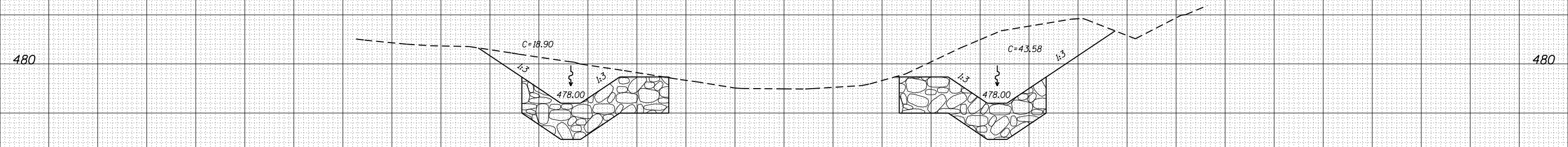


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								CONTRACT NO. 72J87				
								ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA. 519+90.00	TO STA. 520+10.00			

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NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. 520+20.00	TO STA. 520+20.00
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F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72J87				
ILLINOIS FED. AID PROJECT				

520 + 20.00

480

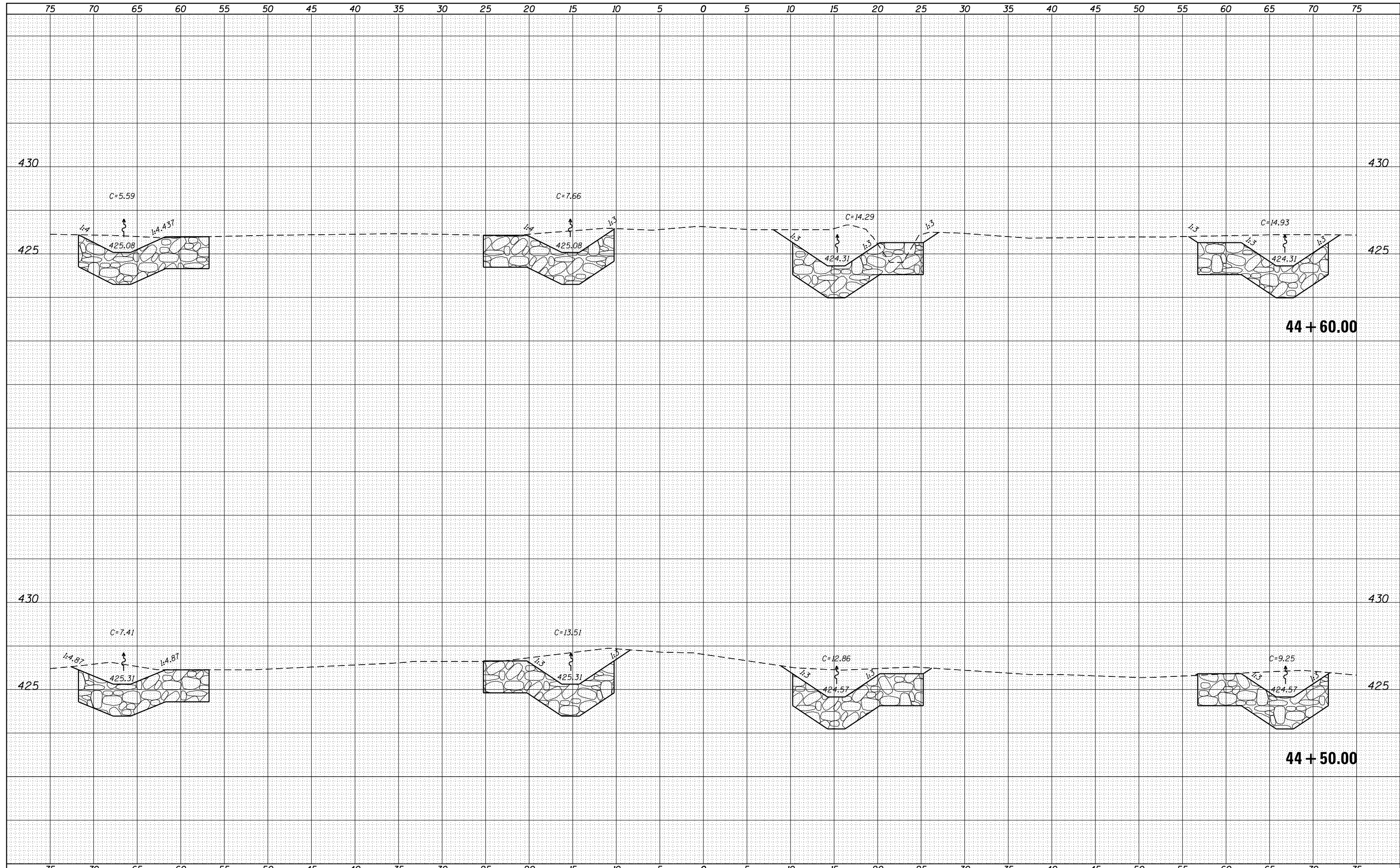
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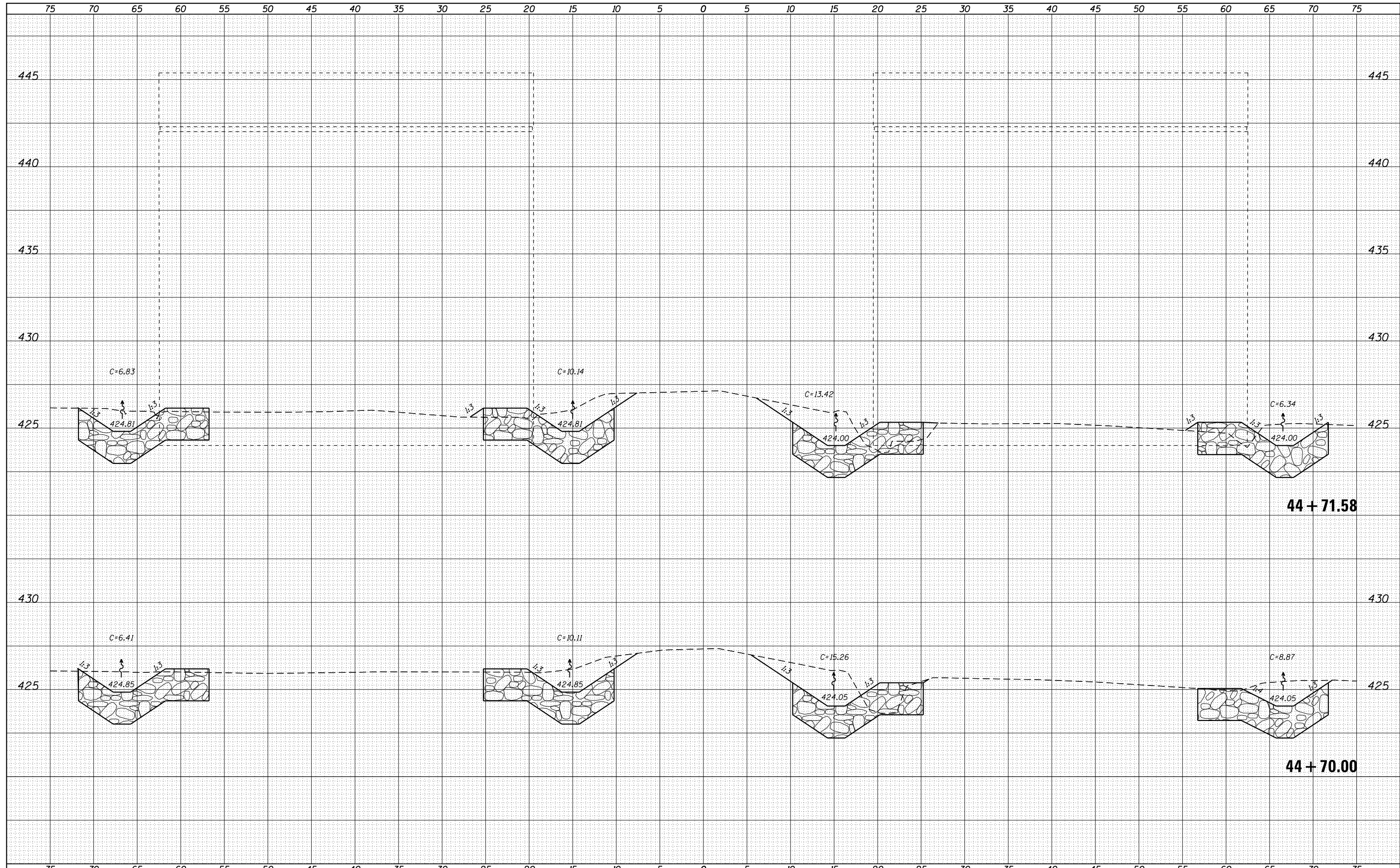
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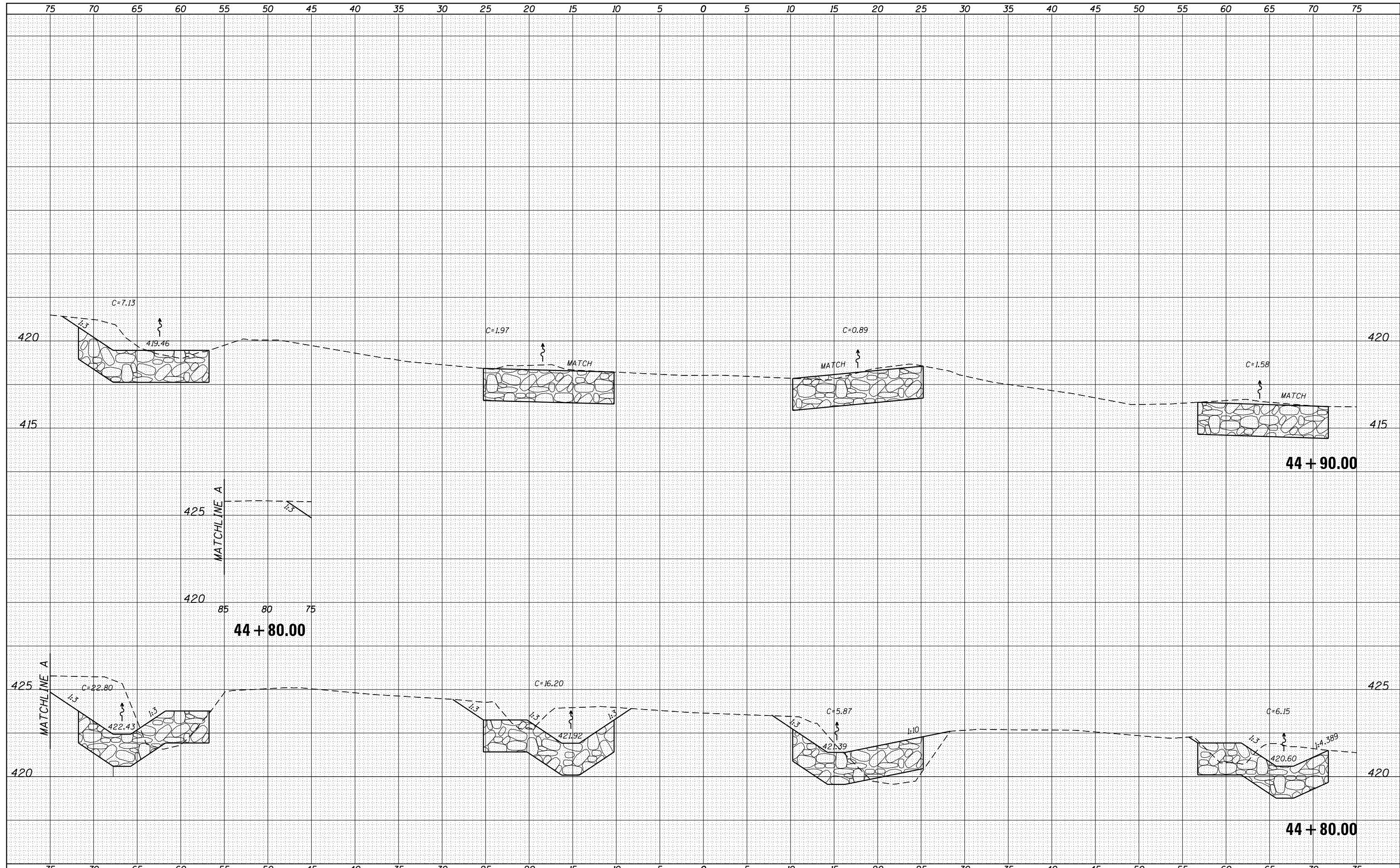
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	AREAS CHECKED

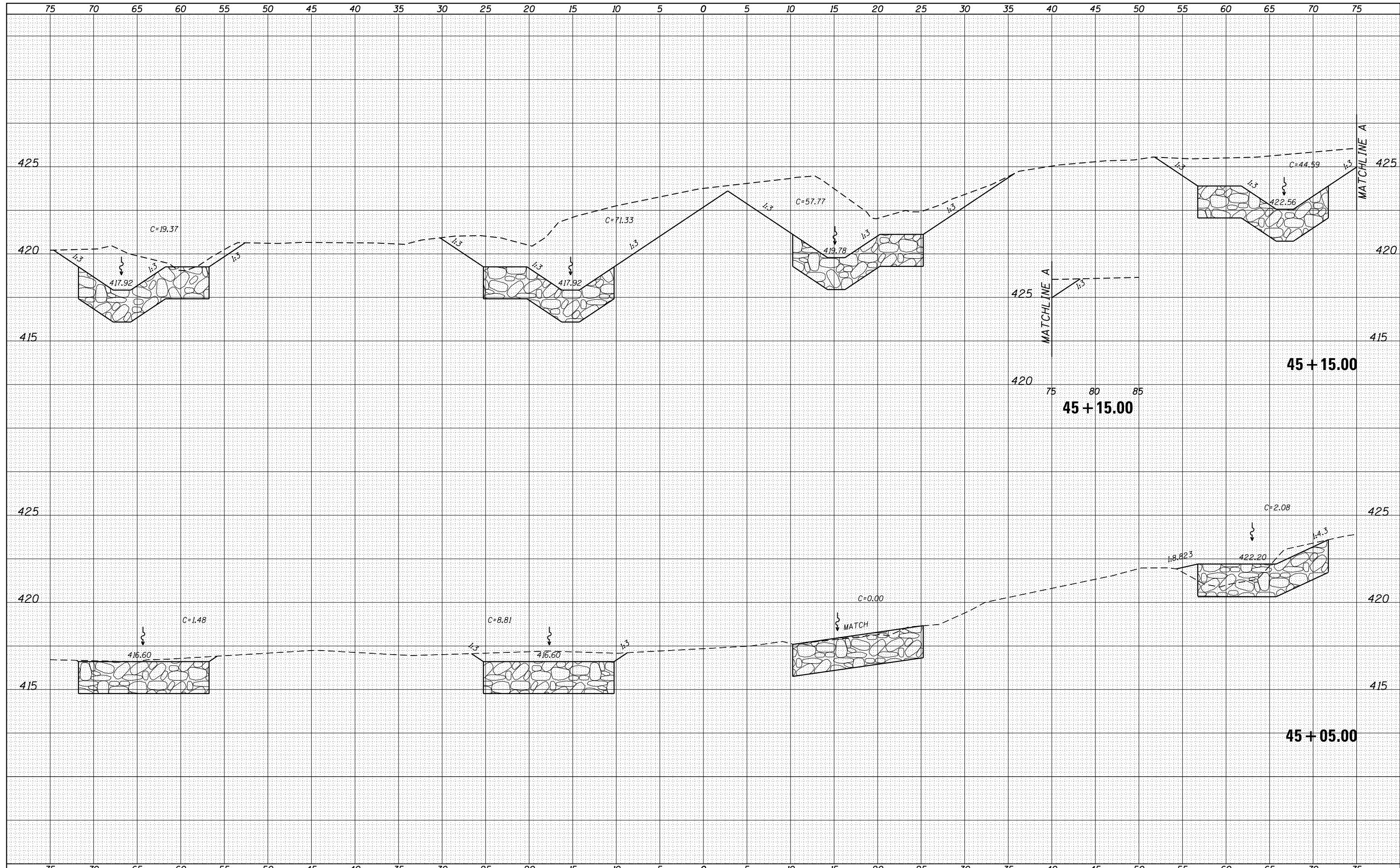
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	AREAS CHECKED



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	PLOT DATE = 3/29/2017		REVISOR -			ILLINOIS FED. AID PROJECT					

DATE	
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	AREAS CHECKED

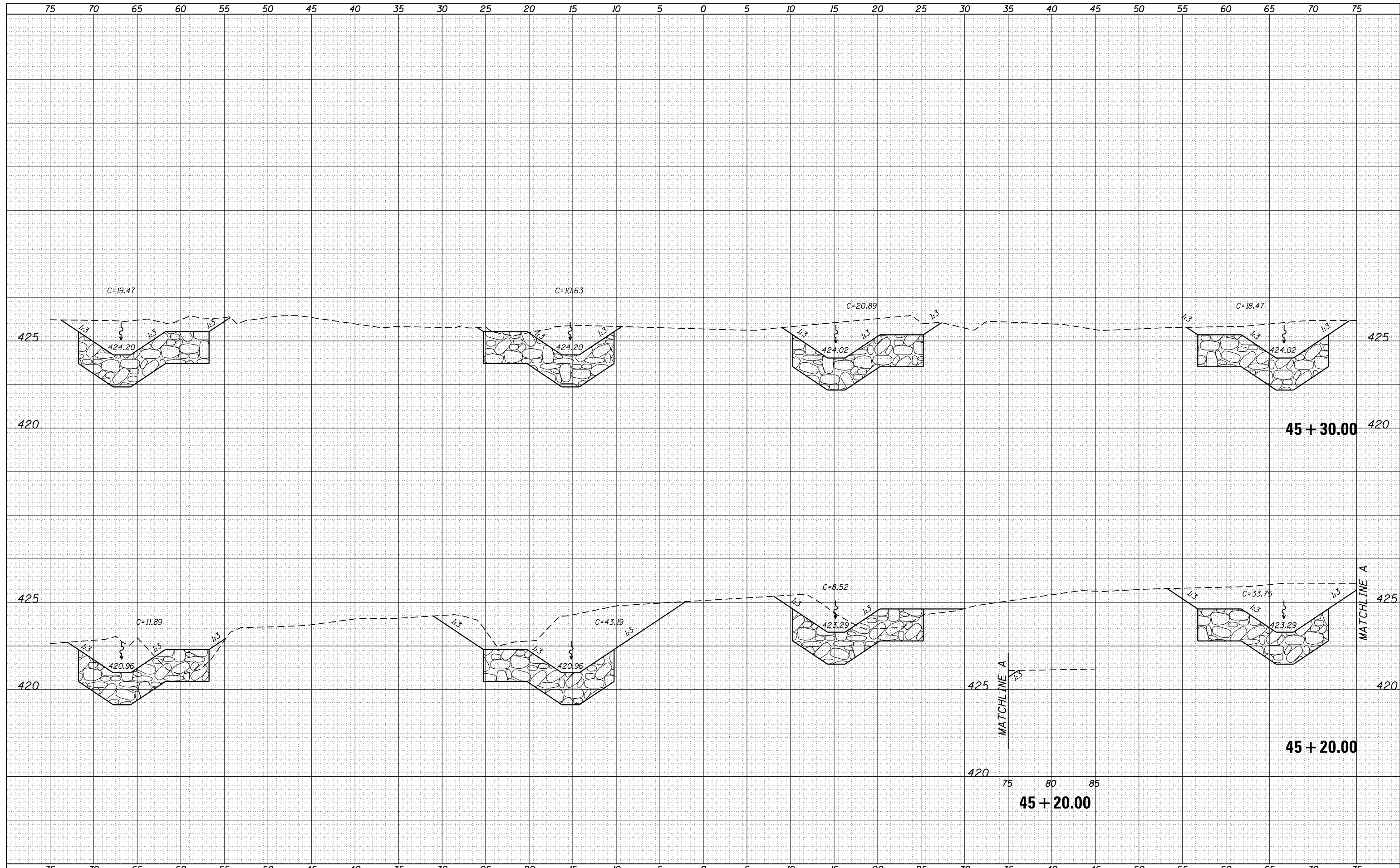
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NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #2 CROSS SECTIONS	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 3/29/2017					SCALE:	SHEET	OF	SHEETS	STA. 45+05.00	TO STA. 45+15.00

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

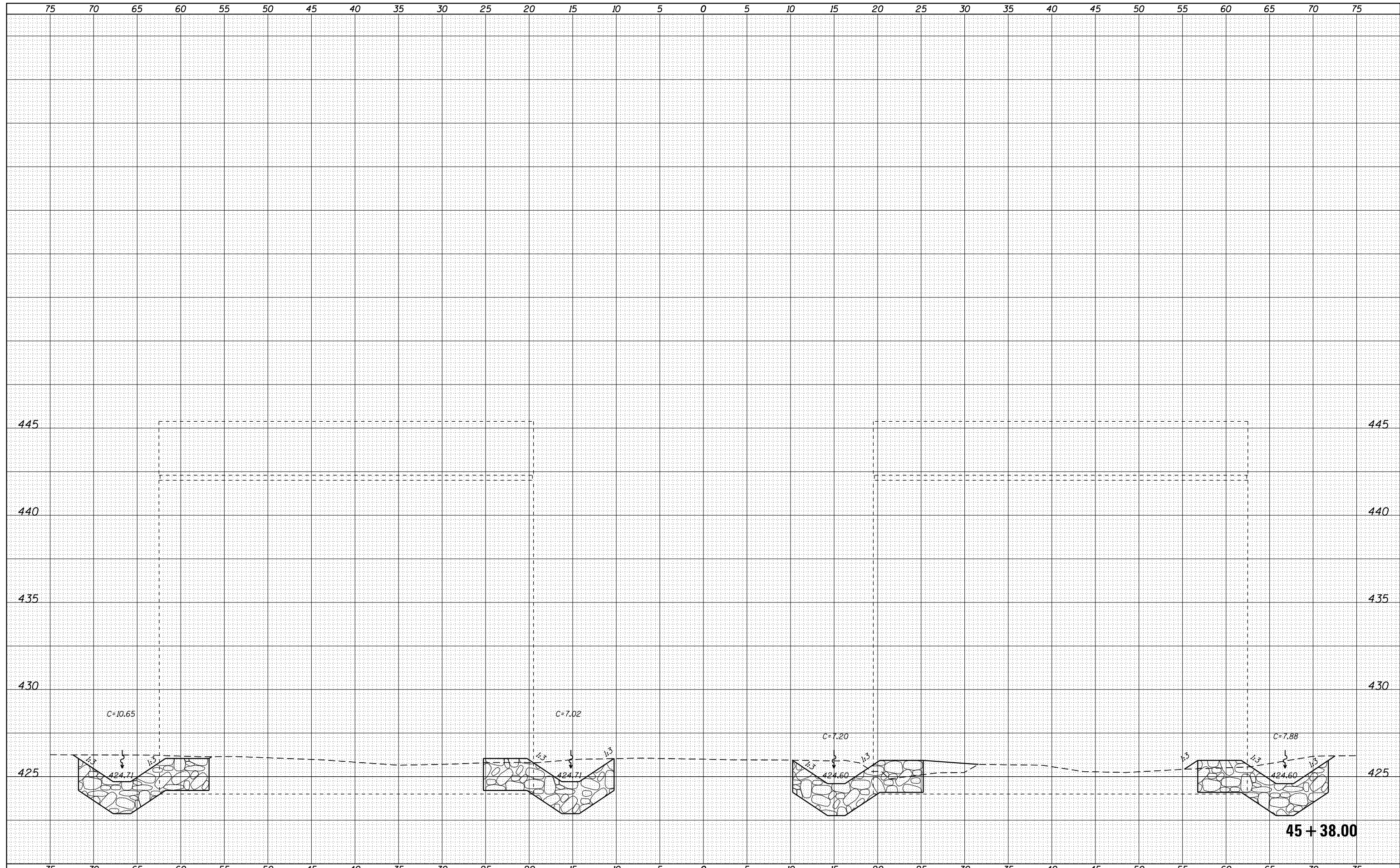
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISÉD -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">LOCATION #2 CROSS SECTIONS</p>	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 3/29/2017		REVISÉD -		ILLINOIS FED. AID PROJECT				

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

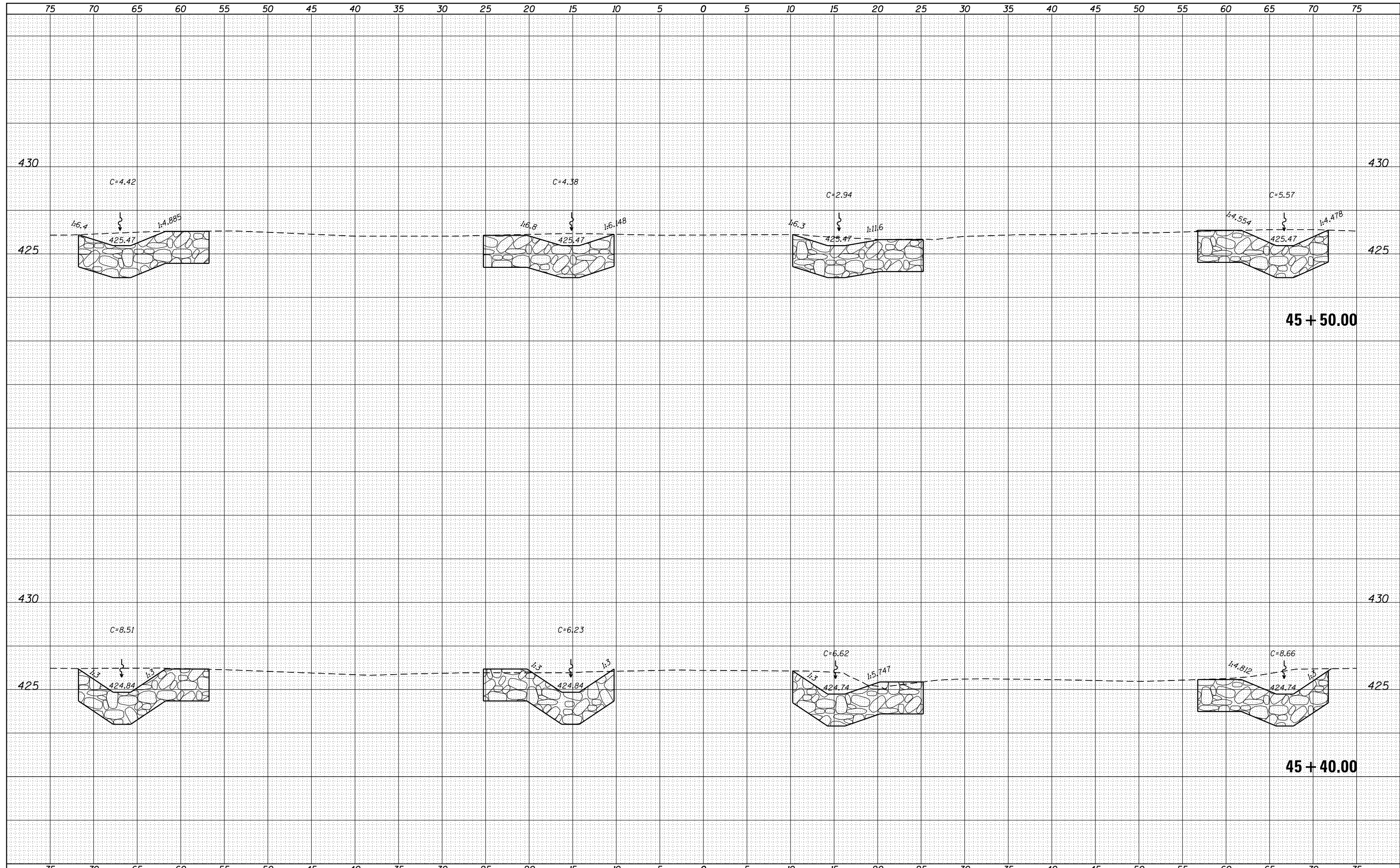
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #2 CROSS SECTIONS	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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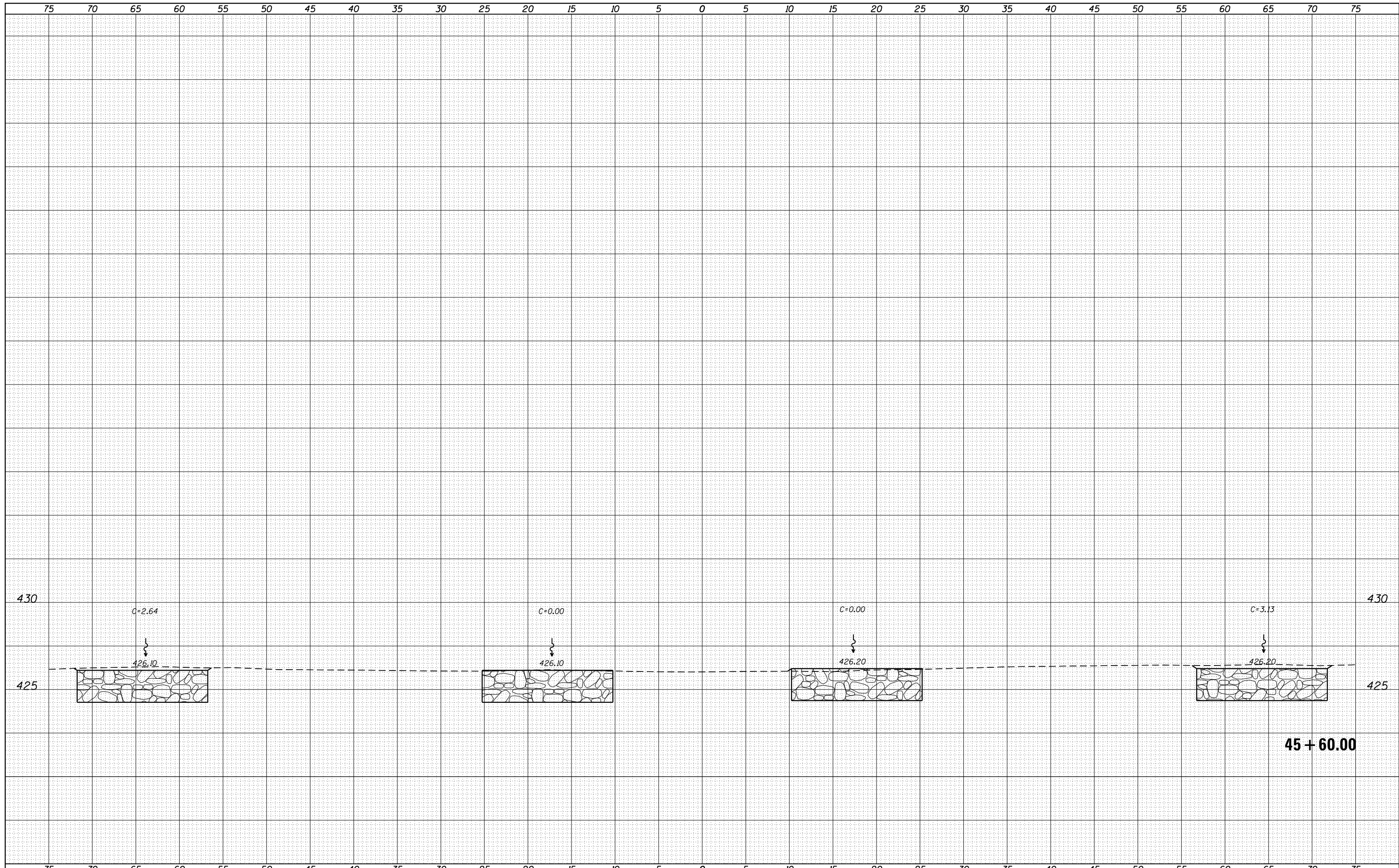
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



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



FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISÉD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #2 CROSS SECTIONS	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Default	CHECKED -	REVISÉD -			VAR.	D6 RIP RAP 2017	VAR.	29	29	
		DATE -	REVISÉD -			CONTRACT NO. 72J87			ILLINOIS FED. AID PROJECT		
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