

11-08-2019 LETTING ITEM 016

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	1
ILLINOIS			CONTRACT NO. 66F60	

SHEET NO. INDEX OF SHEETS:

1	COVER SHEET
2	GENERAL NOTES AND COMMITMENTS
3-6	SUMMARY OF QUANTITIES
7-10	TYPICAL SECTIONS
11-12	SCHEDULE OF QUANTITIES
13	RIGHT OF WAY PLANS
14	TIE POINTS
15	PLAN AND PROFILE SHEETS
16	DETOUR PLAN
17	EROSION CONTROL DETAIL
18-20	BOX CULVERT SHEETS SN 027-2555
21	SOIL BORING LOGS
22-23	EXISTING BOX CULVERT INFORMATION SN 027-2509
24-26	DETAILS
27-34	CROSS SECTIONS

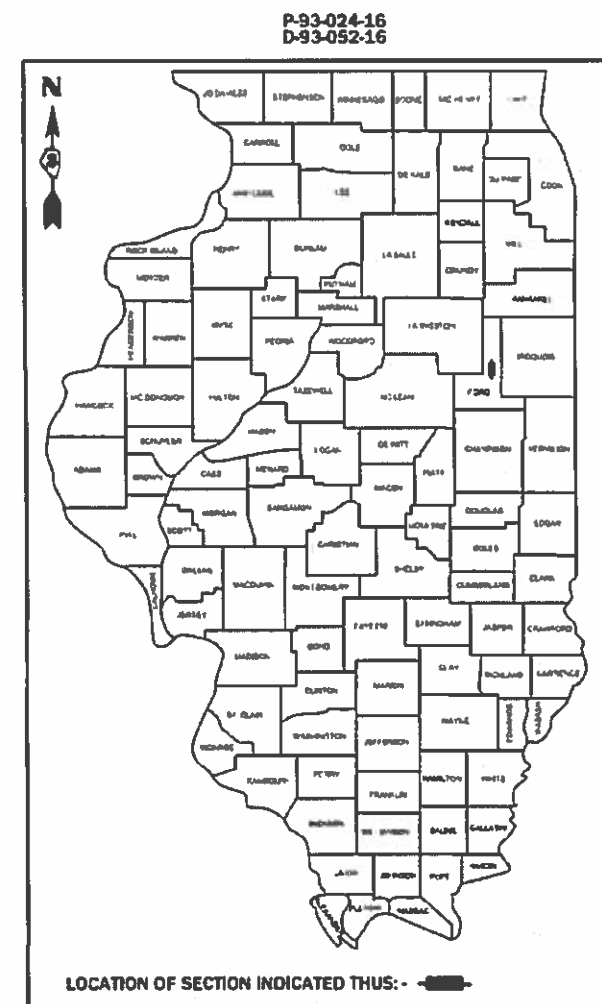
PROPOSED HIGHWAY PLANS

FAP ROUTE 798 (IL 115)
SECTION (108)CR-2509
PROJECT STP-P3T5(466) CULVERT
REPLACEMENT (SN 027-2509) FORD
COUNTY

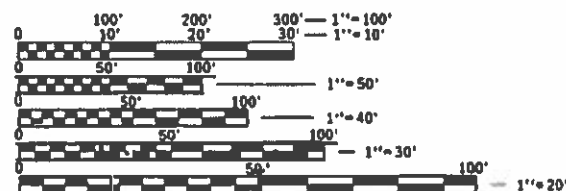
C-93-099-16

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001005	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
668001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



RURAL MAJOR COLLECTOR
2017 ADT=850
P.V.=83% S.U.=7% M.U.=10%

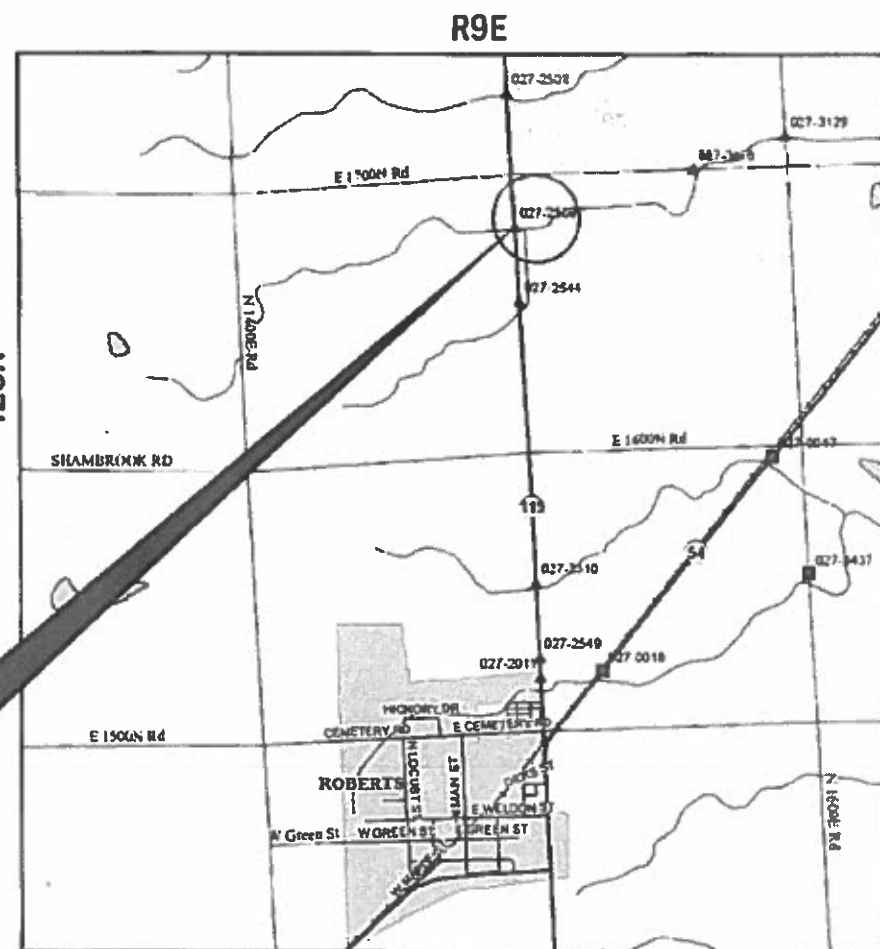


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: BRAD DUNCAN, P.E.
PROJECT MANAGER: DARCY CARPENTER
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66F60

PROJECT LOCATION
REMOVE AND REPLACE
EXISTING CULVERT
EXISTING SN 027-2509
PROPOSED SN 027-2555



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Oct 15 2019*
Max A. Howard
REGIONAL ENGINEER

Oct 4 2019
ac E.A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 9 2019
David P. Chaf
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPlicing OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: FRONTIER AND EASTERN ILLINI ELECTRIC CO-OP

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

COMMITMENTS:

1. ENVIRONMENTAL COORDINATION
2. EMERGENCY SERVICES
3. COMMITMENT TO NOTIFY FORD COUNTY ENGINEER AND BRENTON TOWNSHIP COMMISSIONER PRIOR TO CLOSING IL 115

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *Tom Beaulieu*
DISTRICT STUDIES & PLANS ENGINEER

DATE: 8-14-19

EXAMINED BY: *John V. ...*
DISTRICT CONSTRUCTION ENGINEER

Michael A. ...
DISTRICT MATERIALS ENGINEER

Tom ...
DISTRICT OPERATIONS ENGINEER

FILE NAME *	USER NAME * glenschr	DESIGNED -	REVISED -
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Default	PLOT SCALE * 100.0000 / in.	CHECKED -	REVISED -
	PLOT DATE * 8/6/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	2
CONTRACT NO. 66F60				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE
				ROADWAY
				0004 RURAL
20200100	EARTH EXCAVATION	CU YD	923	923
20700220	POROUS GRANULAR EMBANKMENT	CU YD	223	223
25000210	SEEDING, CLASS2A	ACRE	0.9	0.9
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	77	77
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	77	77
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	77	77
25100630	EROSION CONTROL BLANKET	SQ YD	2976	2976
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	170	170
28000305	TEMPORARY DITCH CHECKS	FOOT	58	58
28000400	PERIMETER EROSION BARRIER	FOOT	908	908
28100107	STONE RIPRAP, CLASS A4	SQ YD	75	75
28200200	FILTER FABRIC	SQ YD	75	75
31100300	SUBBASE GRANULAR MATERIAL, TYPE A4"	SQ YD	172	172
35501326	HOT-MIX ASPHALT BASE COURSE, 10 1/2"	SQ YD	107	107

MODEL: MODELNAMES
FILE NAMES: BFILES

USER NAME = pletschtr	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F60	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE
				ROADWAY
				0004 RURAL
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	6	6
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	834	834
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1
40600527	LEVELING BINDER (HAND METHOD), IL-9.5FG, N50	TON	1	1
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	54	54
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	108	108
44000100	PAVEMENT REMOVAL	SQ YD	123	123
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1157	1157
48101200	AGGREGATE SHOULDERS, TYPE B	TON	21	21
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	391	391
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	22	22
50200100	STRUCTURE EXCAVATION	CU YD	178	178
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	18720	18720

MODEL: ANDELMAN\$
FILE NAME: 811213

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	4
CONTRACT NO. 66F60			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	
				ROADWAY	
				0004	RURAL
51500100	NAME PLATES	EACH	1	1	
54003000	CONCRETE BOX CULVERTS	CU YD	95	95	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1, 18"	FOOT	25	25	
54213453	END SECTIONS 18"	EACH	2	2	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100	
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	671	671	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	48	48	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	16	16	

* SPECIALTY ITEM

MODEL: A:\MODELS\NAMES
FILE NAME: 311213

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	5
CONTRACT NO. 66F60			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE	
				ROADWAY	
				0004	RURAL
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	960	960	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	120	120	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1920	1920	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	240	240	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	98	98	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	58	58	
Z0027800	GEOTECHNICAL FABRIC	SQ YD	44	44	
∅ Z0076600	TRAINEES	HOUR	1000	1000	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	52	52	
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000	

* SPECIALTY ITEM
∅ 0042

MODEL: MODEL NAMES
FILE NAMES: SHEETS

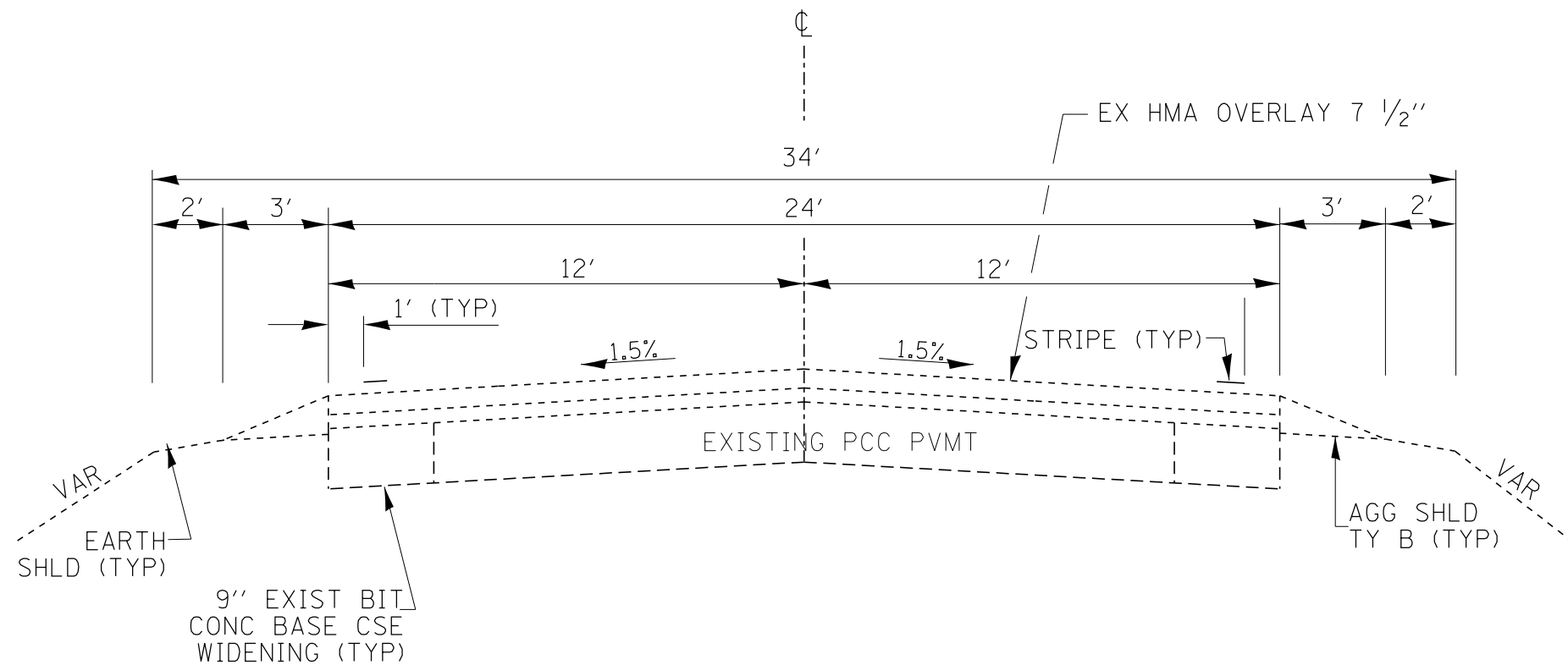
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PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

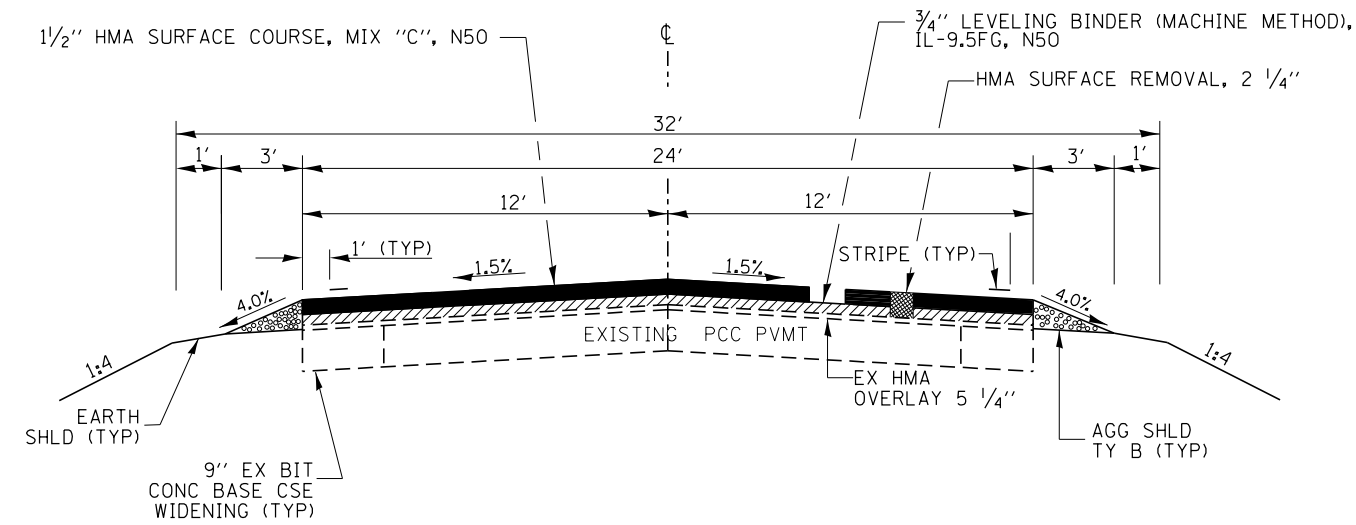
SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F60	

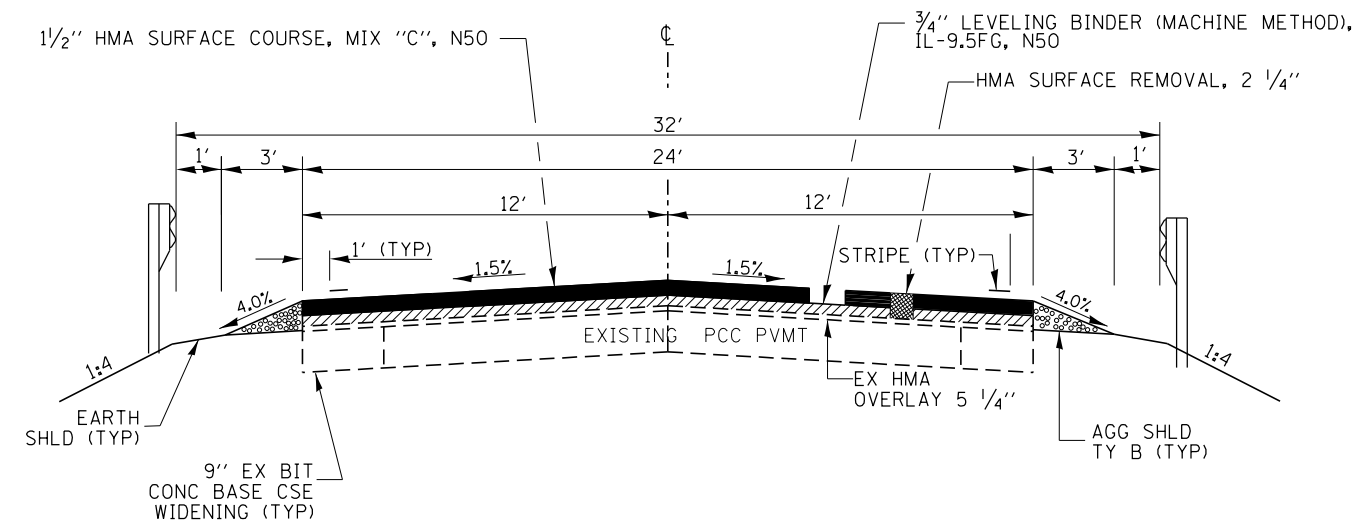


EXISTING ROADWAY TYPICAL SECTION STA 374 + 85 TO STA 379 + 65

HMA MIXTURE REQUIREMENT TABLE					
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA LEVEL	HMA	HMA SHOULDERS	HMA SHOULDERS	HMA
	BINDER	SURFACE	BOTTOM LIFT(S)	TOP LIFT (2")	BASE COURSE
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5FG	IL 9.5	IL 19.0	IL 9.5 FG	IL 19.0
FRICTION AGGREGATE:		MIXTURE C			
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCOA	QCOA	QCOA	QCOA	QCOA
SUBLOT SIZE:	NA	NA	NA	NA	NA
DENSITY TEST METHOD:	% GROWTH CURVE	CORES	CORES	CORES	CORES

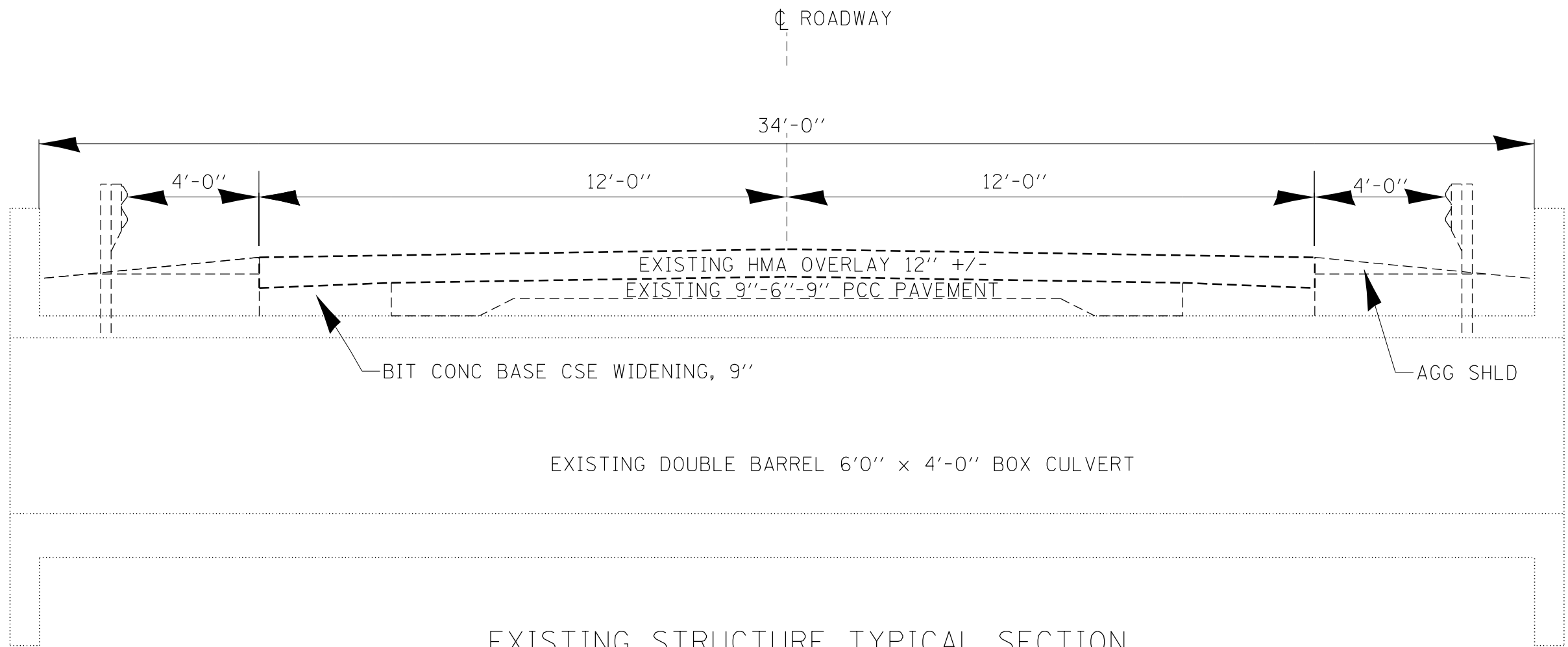


PROPOSED ROADWAY TYPICAL SECTION
STA 374+85 TO STA 379+65



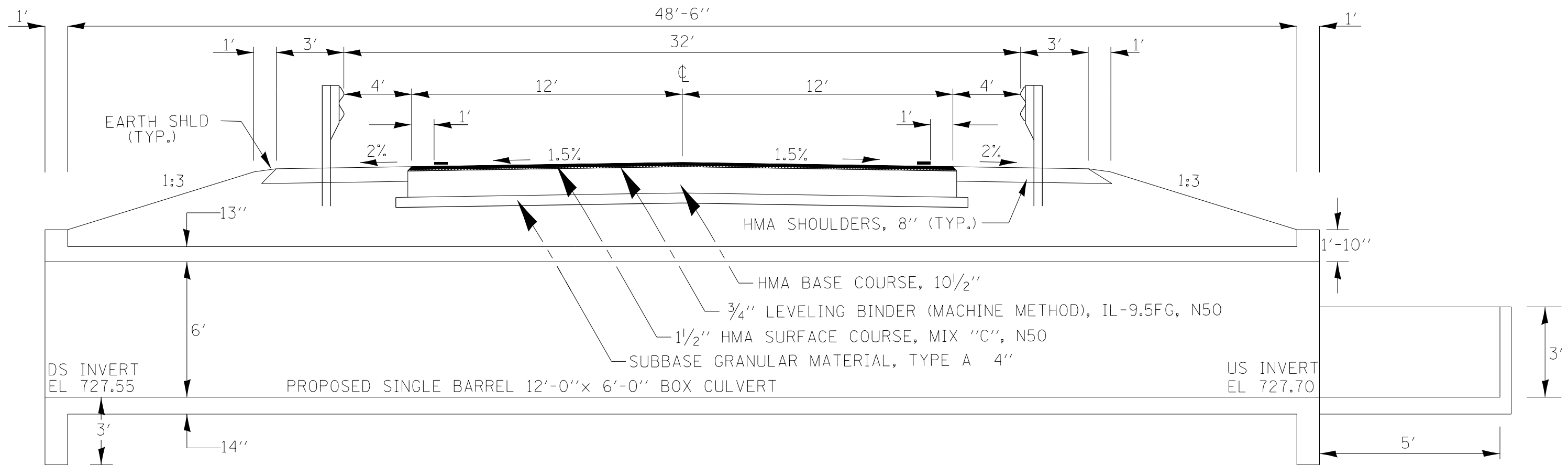
PROPOSED ROADWAY TYPICAL SECTION
STA 374+88 TO STA 378+57

FILE NAME =	USER NAME = pletschr	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED IL 115 ROADWAY TYPICAL SECTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____			CONTRACT NO. 66F60					
						SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT			



EXISTING STRUCTURE TYPICAL SECTION
 STA 376+53 TO STA 376+67

FILE NAME =	USER NAME = pletschr	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 027-2509 EXISTING TYPICAL SECTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____			CONTRACT NO. 66F60					
						SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____	TO STA. _____	ILLINOIS FED. AID PROJECT	



PROPOSED STRUCTURE TYPICAL SECTION
 STA 376+53.17 TO STA 376+66.83

FILE NAME =	USER NAME = pletschr	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED STRUCTURE TYPICAL SECTION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pwz\planroom.dot\illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\D366F60\CADDData\CADs\DWG\660-sh-typical.dgn	PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____				798	(108)CR-2509	FORD	34	10
Default	PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____		SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 66F60				
							ILLINOIS FED. AID PROJECT				

EARTH EXCAVATION SCHEDULE					
(1)		(2)	(3)	(4)	(5)
STA TO STA		EARTH EX	EARTH EX ADJ FOR SHRINKAGE	EMBANK	EARTHWORK BAL WASTE(+) OR SHORTAGE(-)
	LANE	CU YD	CU YD	CU YD	CU YD
374+75 TO 374+85	LT/RT	1	0.75	1	-0.25
374+85 TO 375+00	LT/RT	5	3.75	3	0.75
375+00 TO 375+25	LT/RT	14	10.50	7	3.50
375+25 TO 375+50	LT/RT	23	17.25	7	10.25
375+50 TO 375+75	LT/RT	32	24.00	10	14.00
375+75 TO 376+00	LT/RT	42	31.50	13	18.50
376+00 TO 376+25	LT/RT	57	42.75	15	27.75
376+25 TO 376+50	LT/RT	34	25.50	44	-18.50
376+50 TO 376+70	LT/RT	0	0.00	0	0.00
376+70 TO 376+75	LT/RT	2	1.50	6	-4.50
376+75 TO 377+00	LT/RT	66	49.50	42	7.50
377+00 TO 377+25	LT/RT	108	81.00	32	49.00
377+25 TO 377+50	LT/RT	100	75.00	34	41.00
377+50 TO 377+75	LT/RT	86	64.50	30	34.50
377+75 TO 378+00	LT/RT	71	53.25	23	30.25
378+00 TO 378+25	LT/RT	62	46.50	20	26.50
378+25 TO 378+50	LT/RT	55	41.25	21	20.25
378+50 TO 378+75	LT/RT	46	34.50	17	17.50
378+75 TO 379+00	LT/RT	40	30.00	11	19.00
379+00 TO 379+25	LT/RT	39	29.25	11	18.25
379+25 TO 379+50	LT/RT	36	27.00	14	13.00
379+50 TO 379+65	LT/RT	10	7.50	5	2.50
GRAND TOTALS		923	692	362	331

FULL DEPTH PAVEMENT SCHEDULE				
STA. TO STA.	PAVEMENT REMOVAL	POROUS GRANULAR EMBANKMENT	SUBBASE GRANULAR MATERIAL TYPE A, 4" *	HMA BASE COURSE, 10 1/2"
	SQ. YD.	CU. YD.	SQ. YD.	SQ. YD.
376+37 TO 376+83	122.7	223.19	172.07	107.33
TOTALS	123	223	172	107

* PLACE THIS UNDER HMA BASE COURSE, 10 1/2" AND HMA SHOULDERS , 8"

GUARDRAIL SCHEDULE					
STA. TO STA.	TBT TY1 SP (TANGENT)	SPBGR TY A 6' POSTS	LONG-SPAN GUARDRAIL OVER CULVERT 18' 9" SPAN	GUARDRAIL REFLECTORS TYPE A	GUARDRAIL REMOVAL
	EACH	FOOT	FOOT	EACH	FOOT
NORTH BOUND					
374+85 TO 379+65	2	50	43.75	4	392
SOUTH BOUND					
374+85 TO 379+65	2	50	43.75	4	279
TOTALS	4	100	87.5	8	671

COLUMNS 2, AND 4-LOCATION AND QUANTITIES FROM CROSS SECTIONS
 COLUMN 3- QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25% (1- SHRINKAGE FACTOR)
 COLUMN 5 EARTHWORK REQUIRED (PAY FOR AS FINISHED EXCAVATION)

RIGHT-OF-WAY MARKERS	
LOCATION	EACH
STA. 375+00, 33' RT	1
STA. 375+25, 34.28' LT	1
STA. 375+50, 55' RT	1
STA. 376+00, 80' LT	1
STA. 379+50, 55' RT	1
STA. 379+87, 80' LT	1
STA. 379+87, 55' LT	1
STA. 380+00, 33' RT	1
TOTAL	8

SEEDING SCHEDULE									
LOCATION	OFFSET	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMP DITCH CHECKS	PERIMETER EROSION BARRIER	TEMP EROSION CONTROL SEEDING
STA TO STA	L / R	ACRE	POUND	POUND	POUND	SQ. YD.	FOOT	FOOT	POUND
374+85 TO 379+65	L	0.51	45.9	45.9	45.9	1830.0	38	475	102
374+85 TO 379+65	R	0.34	30.6	30.6	30.6	1145.8	20	433	68
GRAND TOTALS		0.9	77	77	77	2976	58	908	170

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PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULES	
SCALE: _____	SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 798	SECTION (108)CR-2509	COUNTY FORD	TOTAL SHEETS 34	SHEET NO. 11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66F60	

MAINLINE SCHEDULE									
STA. TO STA.	1 1/2" HMA	LEVELING	HMA	BIT	MIXTURE FOR	LEVELING	HMA	AGGREGATE	AGGREGATE
	SURF CSE	BINDER	SURFACE	MATLS	CRACKS	BINDER	SHOULDERS,	SHOULDERS,	SURFACE
	MIX "C"	(MM)	REMOVAL	TACK	JOINTS, &	(HM)	8"	TYPE B	COURSE
	N50	IL-9.5FG, N50	2 1/4"	COAT	FLANGEWAYS	N50			TYPE B
	TON	TON	SQ. YD.	POUND	TON	TON	SQ. YD.	TON	TON
374+85 TO 375+29 RT	4.9	2.5	58.7	39.6	0.05	0.029		1.879	
374+85 TO 375+54 LT	7.7	3.9	92.0	32.1	0.08	0.046		2.947	
375+29 RT TO 376+37 RT	12.1	6.0	144.0	97.2	0.13	0.072	89.519		
375+54 LT TO 376+37 LT	9.3	4.6	110.7	74.7	0.10	0.055	70.093		
376+37 TO 376+83	10.3	5.2		82.8	0.11	0.061	71.556		
376+83 RT TO 377+66 RT	9.3	4.6	110.7	74.7	0.10	0.055	70.114		
376+83 LT TO 377+91 LT	12.1	6.0	144.0	97.2	0.13	0.072	89.522		
377+66 RT TO 379+65 RT	22.3	11.1	265.3	179.1	0.24	0.133		8.499	
377+91 LT TO 379+65 LT	19.5	9.7	232.0	156.6	0.21	0.116		7.431	
374+69 RT (F.E.)									6.00
TOTALS	108	54	1157	834	1	1	391	21	6

PAVEMENT MARKING SCHEDULE											
LOCATION			SIDE	PAINT PAVEMENT MARKING-LINE 4"	TEMPORARY PAVEMENT MARKING-LINE 4"	PAINT PAVEMENT MARKING-LINE 6"	TEMPORARY PAVEMENT MARKING-LINE 6"	RAISED REFLECT PVMT MARK	RAISED REFLECT PVMT MARK REM	SHORT TERM PVMT MARK REM	SHORT TERM PVMT MARK
STATION	TO	STATION	LT/RT/CL	WHITE (FOOT)	WHITE (FOOT)	YELLOW SKIP DASH (FOOT)	YELLOW SKIP DASH (FOOT)	EACH	EACH	SQ FT	FOOT
374+85.00	TO	379+65.00	LT	960	480						
374+85.00	TO	379+65.00	RT	960	480						
374+85.00	TO	379+65.00	CL			240	120	6	6	16	48
TOTALS				1920	960	240	120	6	6	16	48

DOUBLE APPLICATION OF PAVEMENT MARKINGS

ILL. RTE. 115 LOCATION: STREAM, 7.2 MI S OF US 24						CONTRACT NO. 66F60		
						FORD COUNTY		
GPS NUMBER	DESCRIPTION				EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
N/A	NO PERMANENT SURVEY MARKERS OR SECTION CORNER MARKERS TO BE SET ON THIS JOB				N/A	N/A	N/A	N/A
<p>THERE ARE NO RECORD LAND SURVEY OR CENTERLINE CONTROL MONUMENTS LOCATED ON THE ROAD SURFACE. UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, THE R.E. MUST TIE AND REQUEST PLATS AND PLANS PERSONNEL TO GPS ANY MONUMEN(S) SUBJECT TO DAMAGE OR DESTRUCTION FROM THE CULVERT REPLACEMENT WORK, AND INFORM THEM TO RESET THE MONUMENT(S) UPON JOB COMPLETION NO MONUMENT RECORDS WILL BE REQUIRED FOR THIS JOB.</p>								

MODEL: Default
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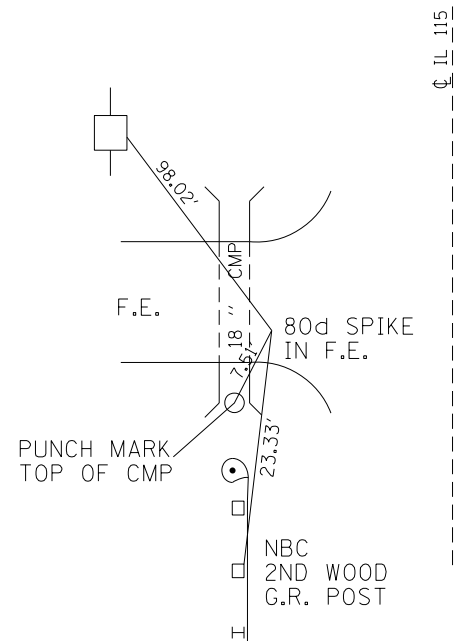
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PLOT DATE = 8/6/2019	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

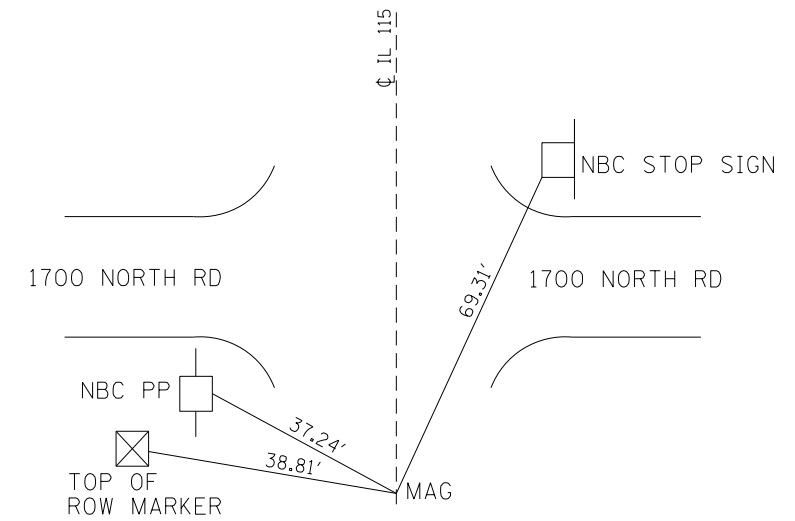
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F.A.P. RTE. 798	SECTION (108)CR-2509	COUNTY FORD	TOTAL SHEETS 34	SHEET NO. 12
CONTRACT NO. 66F60				
ILLINOIS FED. AID PROJECT				

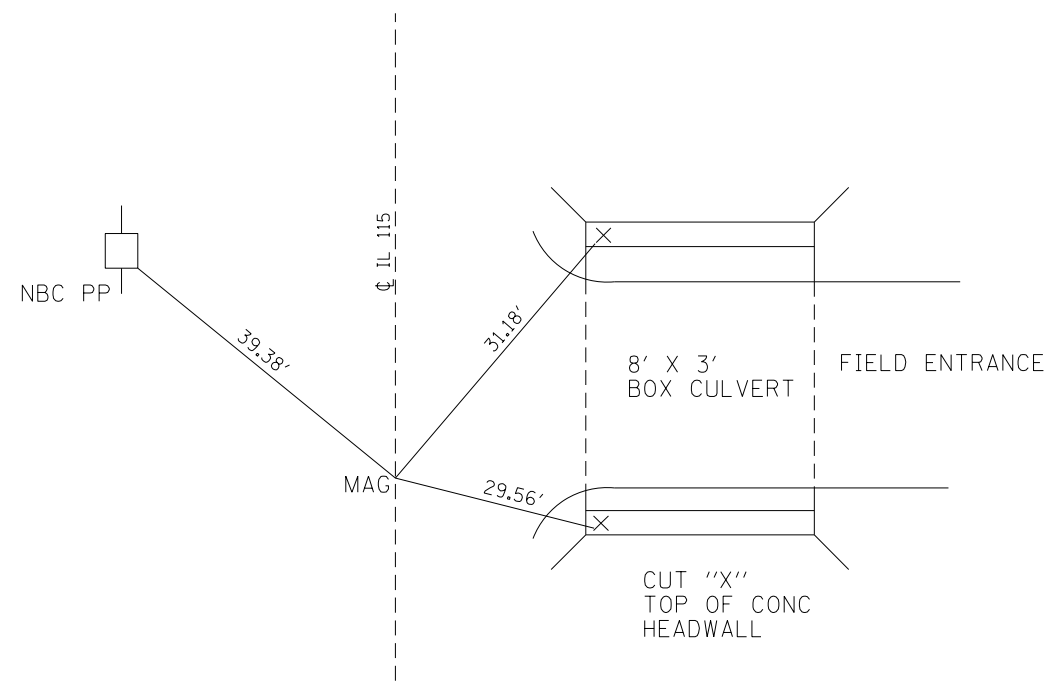
CP 2
389+38.64
16.08' LT



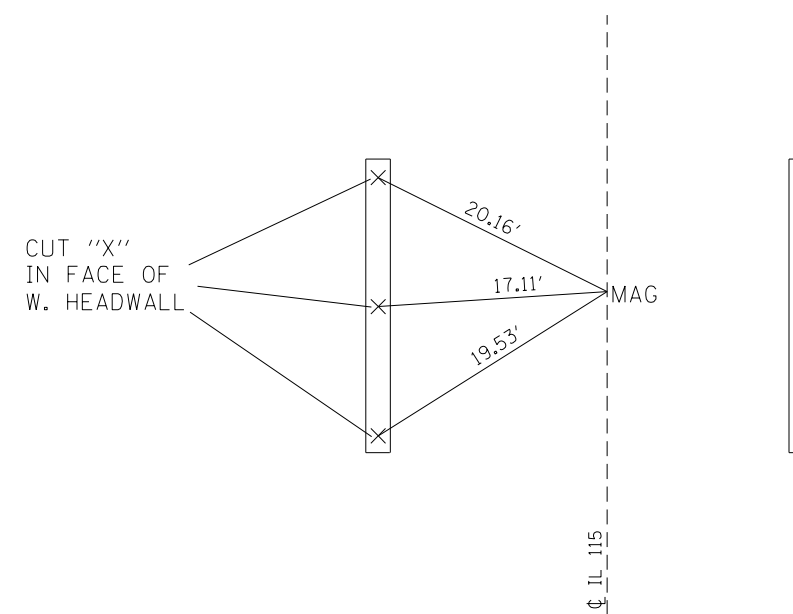
PI STA 367+00



POT STA 385+00



CL POT STA 376+60
SN 027-2509



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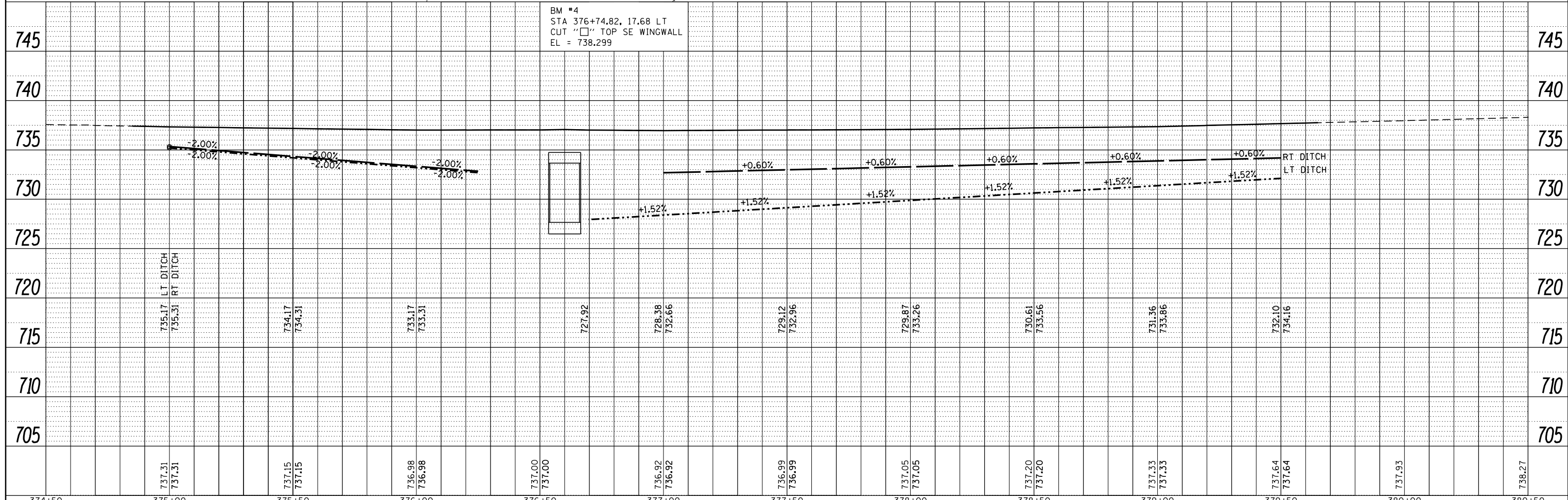
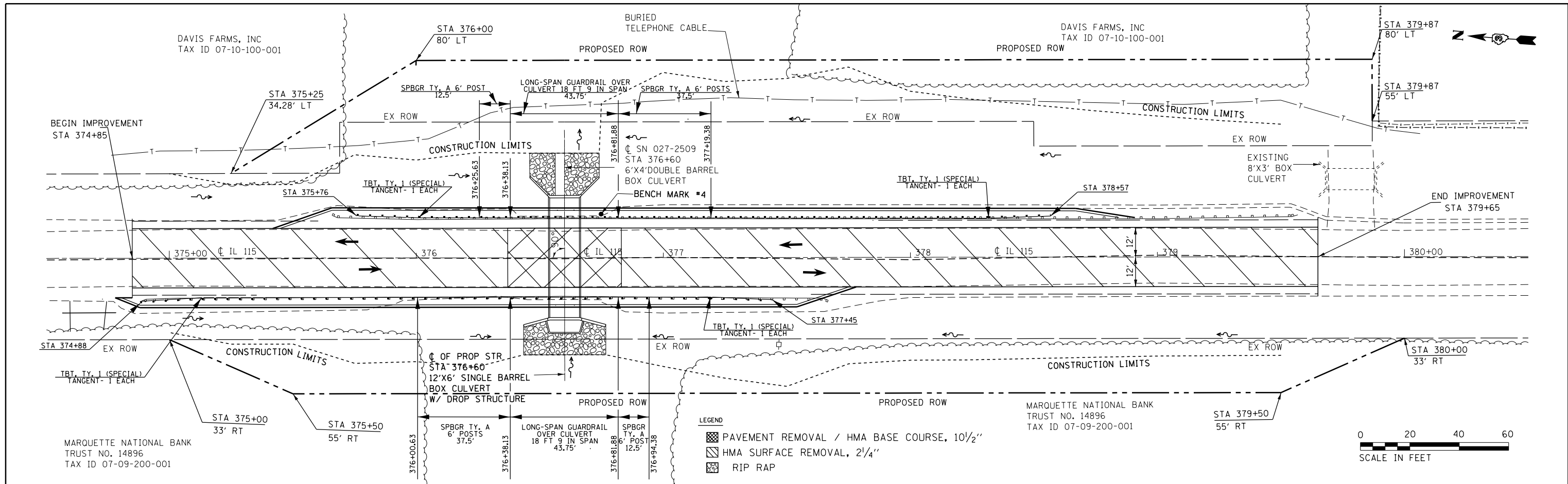
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIE POINTS			
SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	14
CONTRACT NO. 66F60			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
DESIGNED	
NO. _____	
PLAN	
NOTE BOOK	
NO. _____	

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOT AT THIS OFFICE	
NO. _____	
PROFILE	
NOTE BOOK	
NO. _____	



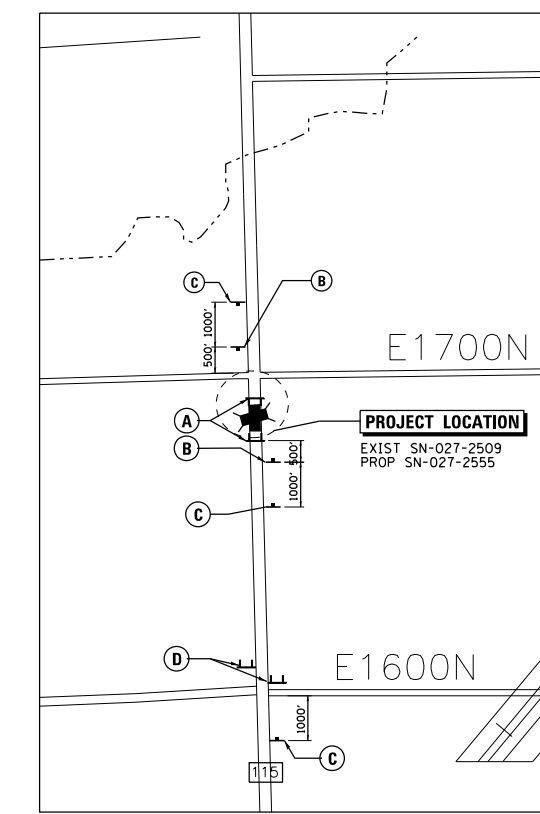
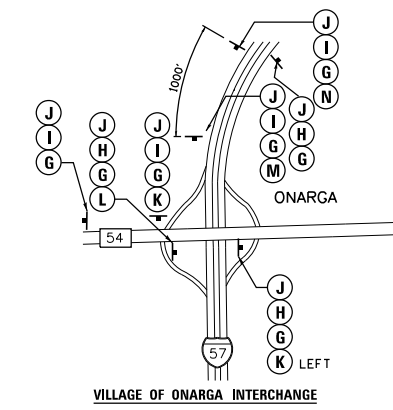
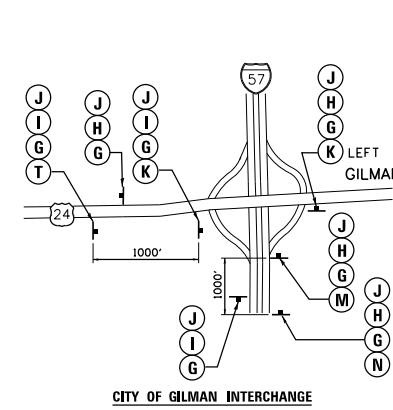
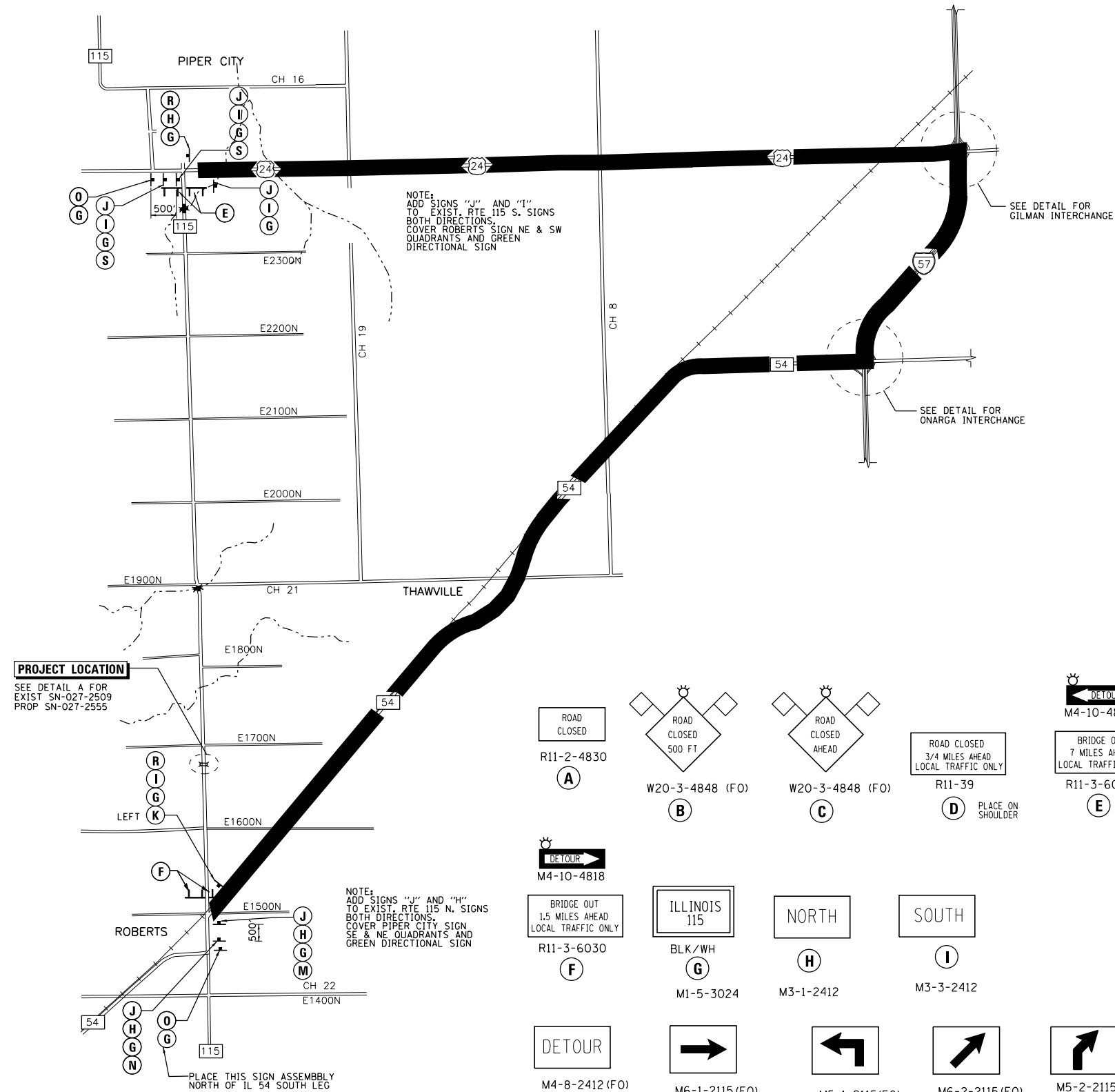
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	PLOT DATE = 8/6/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE SHEET

SCALE: SHEET 1 OF 1 SHEETS STA. 374+50 TO STA. 380+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	15
CONTRACT NO. 66F60			ILLINOIS FED. AID PROJECT	



PROJECT LOCATION
SEE DETAIL A FOR
EXIST SN-027-2509
PROP SN-027-2555

NOTE:
ADD SIGNS "J" AND "I"
TO EXIST. RTE 115 S. SIGNS
BOTH DIRECTIONS.
COVER ROBERTS SIGN NE & SW
QUADRANTS AND GREEN
DIRECTIONAL SIGN

NOTE:
ADD SIGNS "J" AND "H"
TO EXIST. RTE 115 N. SIGNS
BOTH DIRECTIONS.
COVER PIPER CITY SIGN
SE & NE QUADRANTS AND
GREEN DIRECTIONAL SIGN

NOTE:
SIGNS "E" AND "F" SHALL
BE INSTALLED ON TYPE III
BARRICADES POST MOUNTED
ON THE SHOULDER OUTSIDE
THE EDGE OF THE ROADWAY

 ROAD CLOSED R11-2-4830 A	 ROAD CLOSED 500 FT W20-3-4848 (FO) B	 ROAD CLOSED AHEAD W20-3-4848 (FO) C	 ROAD CLOSED 3/4 MILES AHEAD LOCAL TRAFFIC ONLY R11-39 D	 BRIDGE OUT 7 MILES AHEAD LOCAL TRAFFIC ONLY R11-3-6030 E
 DETOUR M4-10-4818	 BRIDGE OUT 1.5 MILES AHEAD LOCAL TRAFFIC ONLY R11-3-6030 F	 ILLINOIS 115 BLK/WH M1-5-3024 G	 NORTH M3-1-2412 H	 SOUTH M3-3-2412 I
 DETOUR M4-8-2412 (FO) J	 → M6-1-2115 (FO) K	 ← M5-1-2115 (FO) L	 ↗ M6-2-2115 (FO) M	 ↖ M5-2-2115 (FO) N
 DETOUR AHEAD W20-2-4848 (FO) O	 JCT M2-1-2115 P	 END DETOUR M4-8A-2418 (FO) R	 ↑ M6-3-2115 (FO) S	 → M5-1-2115 (FO) T

LEGEND

- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- FLASHING LIGHT ABOVE SIGN
- 18"x18" ORANGE FLAG
- DETOUR ROUTE

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.
5. CONFIRMATION DETOUR SIGNS ARE TO BE INSTALLED ADJACENT TO EXISTING ROUTE MARKER ASSEMBLIES.
6. COVER CONFLICTING DESTINATION OR ROUTE MARKER ASSEMBLIES. DO NOT DRILL INTO OR TAPE ON EXISTING SIGN FACE.

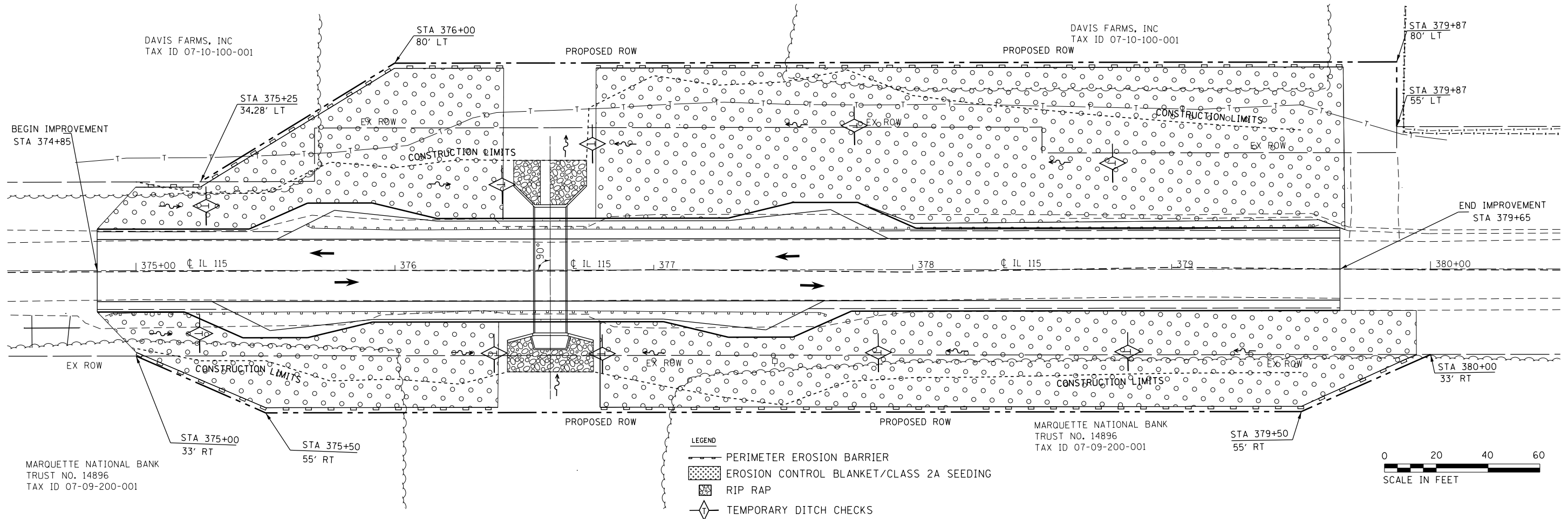
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PLOT DATE = 4/2/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR PLAN	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	16
CONTRACT NO. 66F60			ILLINOIS FED. AID PROJECT	



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FILE NAMES: STILES

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PLOT DATE = 8/6/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

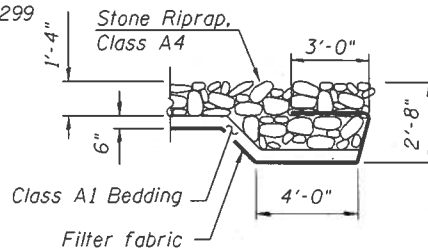
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	17
CONTRACT NO. 66F60				
ILLINOIS FED. AID PROJECT				

Benchmark: Sta. 376+74.82, 17.82 LT Cut "□" Top SE Wingwall Elevation 738.299

Existing Structure: The existing structure (S.N. 027-2509) is a 36 ft long, 6'x4' double box culvert that crosses IL-115 approximately 985 ft south of E 1700 N Road. The existing structure is to be removed and replaced with a new concrete box structure. The existing structure was built in 1930 and an arch CMP was inserted in each barrel and filled with grout as a temporary repair in 2016. IL-115 will be closed to traffic during culvert construction.

No Salvage

Precast alternate is not allowed.



SECTION A-A

WATERWAY INFORMATION

Drainage Area = 1.39 sq mi.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Head - Ft. Exist.	Head - Ft. Prop.
Ex. Overtopping	10	253	25	69	733.5	2.0	0.0	735.5	733.5
Hyd. Design	31	388	40	72	734.7	2.2	0.2	736.9	735.0
Base/Scour Design	50	419	44	72	735.0	2.1	0.4	737.1	735.4
Pr. Overtopping	100	487	48	72	735.6	1.6	0.7	737.3	736.4
Scour Check	177	510	48	72	735.9	1.4	1.0	737.3	736.9
	200	580	48	72	736.0	1.4	1.0	737.4	737.0

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq Yd	75
Filter Fabric	Sq Yd	75
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	178
Reinforcement Bars, Epoxy Coated	Pound	18,720
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	95
Membrane Waterproofing System for Buried Structures	Sq Yd	98
Granular Culvert Backfill	Cu Yd	58
Geotechnical Fabric	Sq Yd	44
Pipe Underdrains for Structures, 4"	Foot	52
Geocomposite Wall Drain	Sq Yd	98

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (Ft.)	Upstream	Downstream
	724.70	724.55

LOADING HL-93

Allow 50 #/sq ft for future wearing surface

DESIGN STRESSES

$f'c = 3,500$ psi (cast-in-place concrete)
 $f_y = 60,000$ psi (reinforcement)

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Ed. with 2015 Interim Revisions

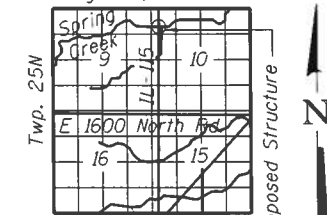
HIGHWAY CLASSIFICATION

F.A.P. 798 (IL-115)
 Functional Class: Major Collector
 ADT: 600 (2015)
 ADTT: 7% (2015)
 Posted Speed: 55 MPH
 Design Speed: 55 MPH

STATION 376+60
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. 798 SEC. (108)CR-2509
 LOADING HL-93
 STRUCTURE NO. 027-2555

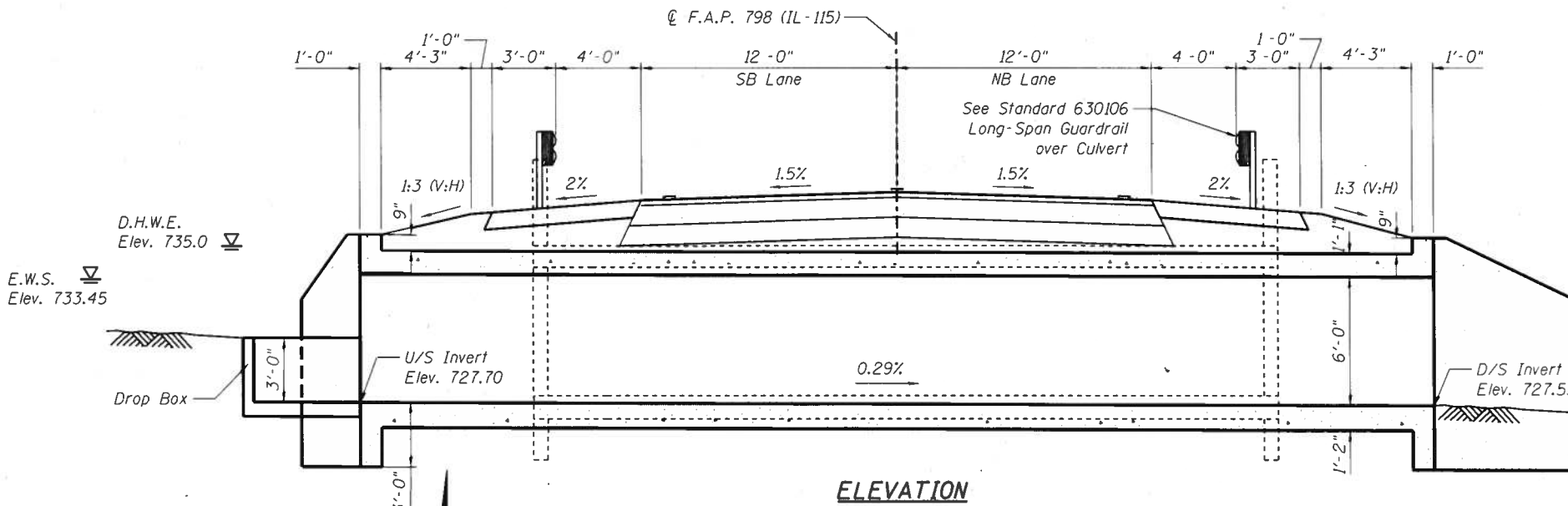
NAME PLATE

See Std. 515001-03
 Range 9E, 3rd- P.M.

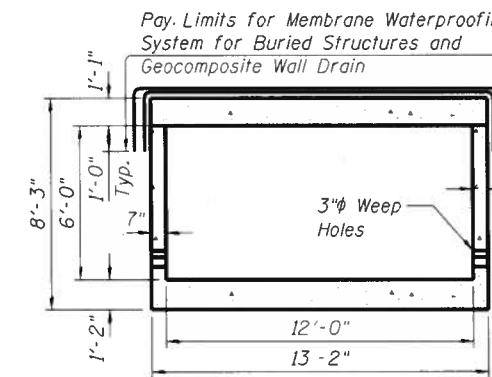


LOCATION SKETCH

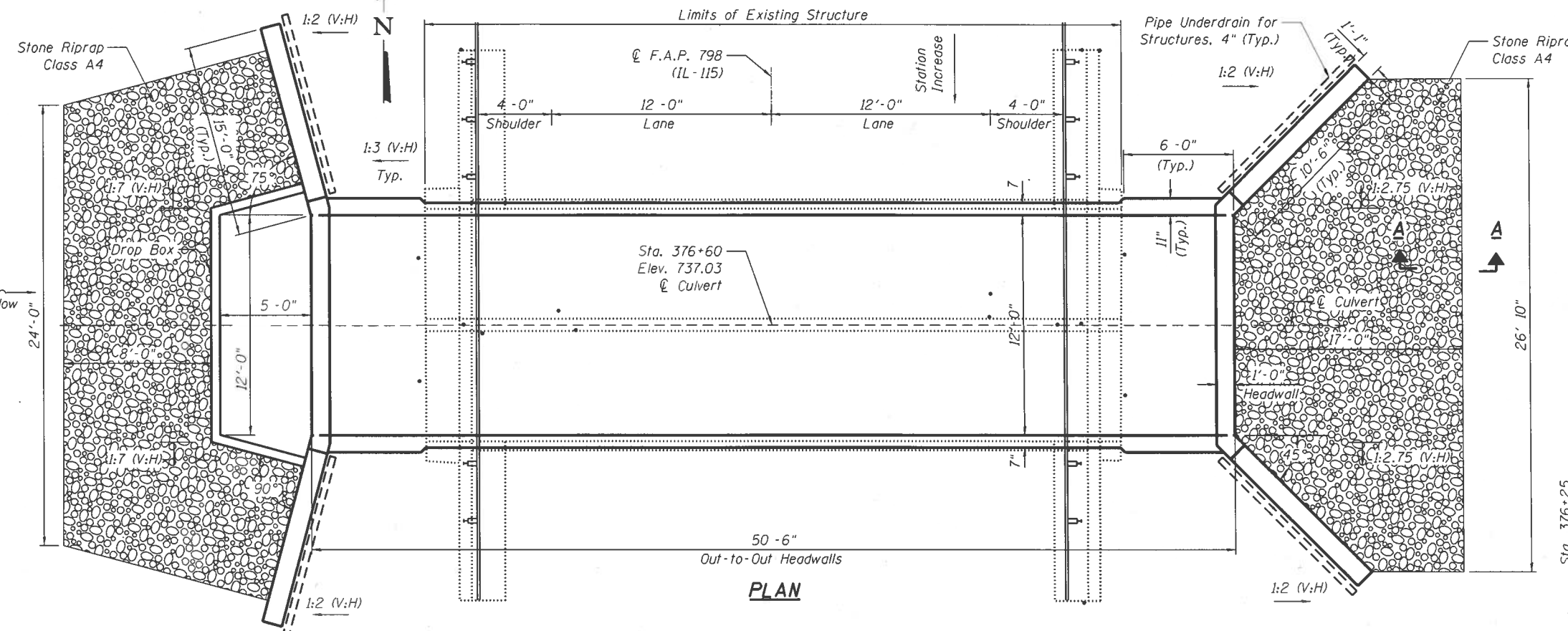
GENERAL PLAN AND ELEVATION
IL-115 OVER TRIBUTARY
OF SPRING CREEK
SEC. (108)CR-2509
FORD COUNTY
STATION 376+60



ELEVATION



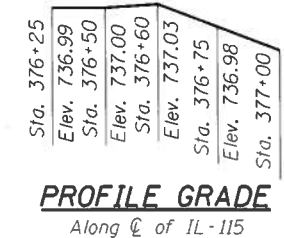
SECTION THRU BARREL



PLAN



Date: 12/12/2018
 Expires: 11/30/2020



PROFILE GRADE
 Along C of IL-115



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 PLOT DATE = 9/23/2019

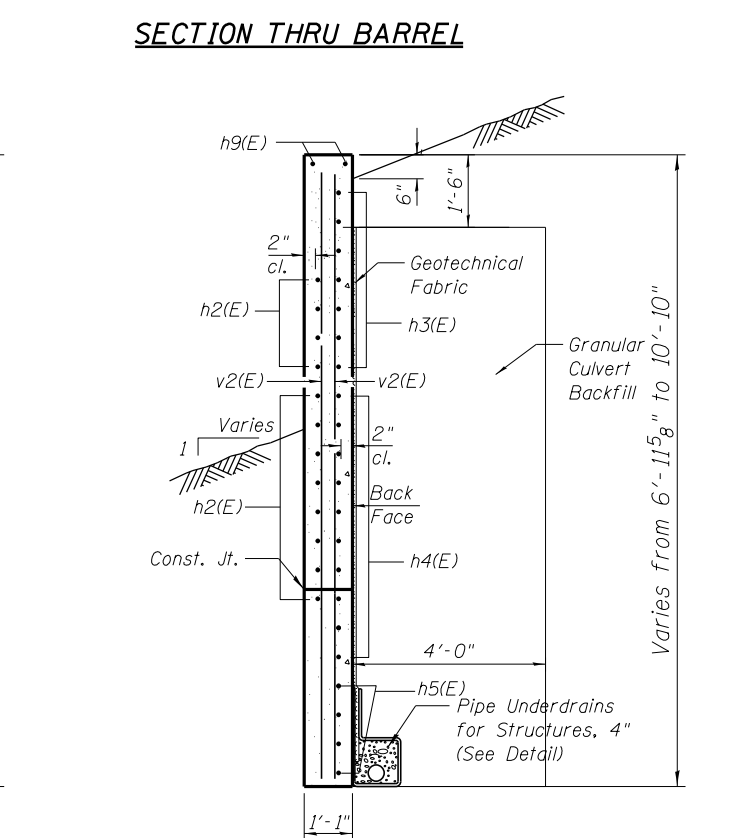
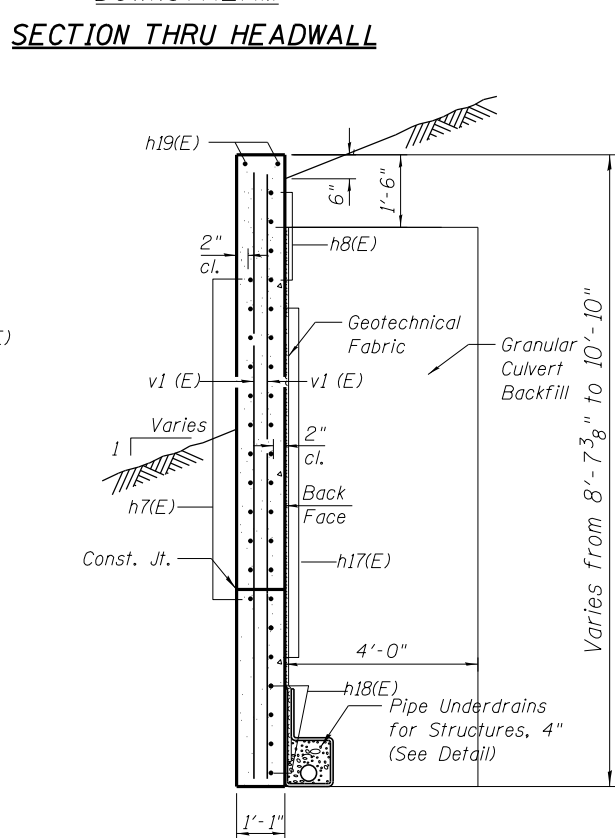
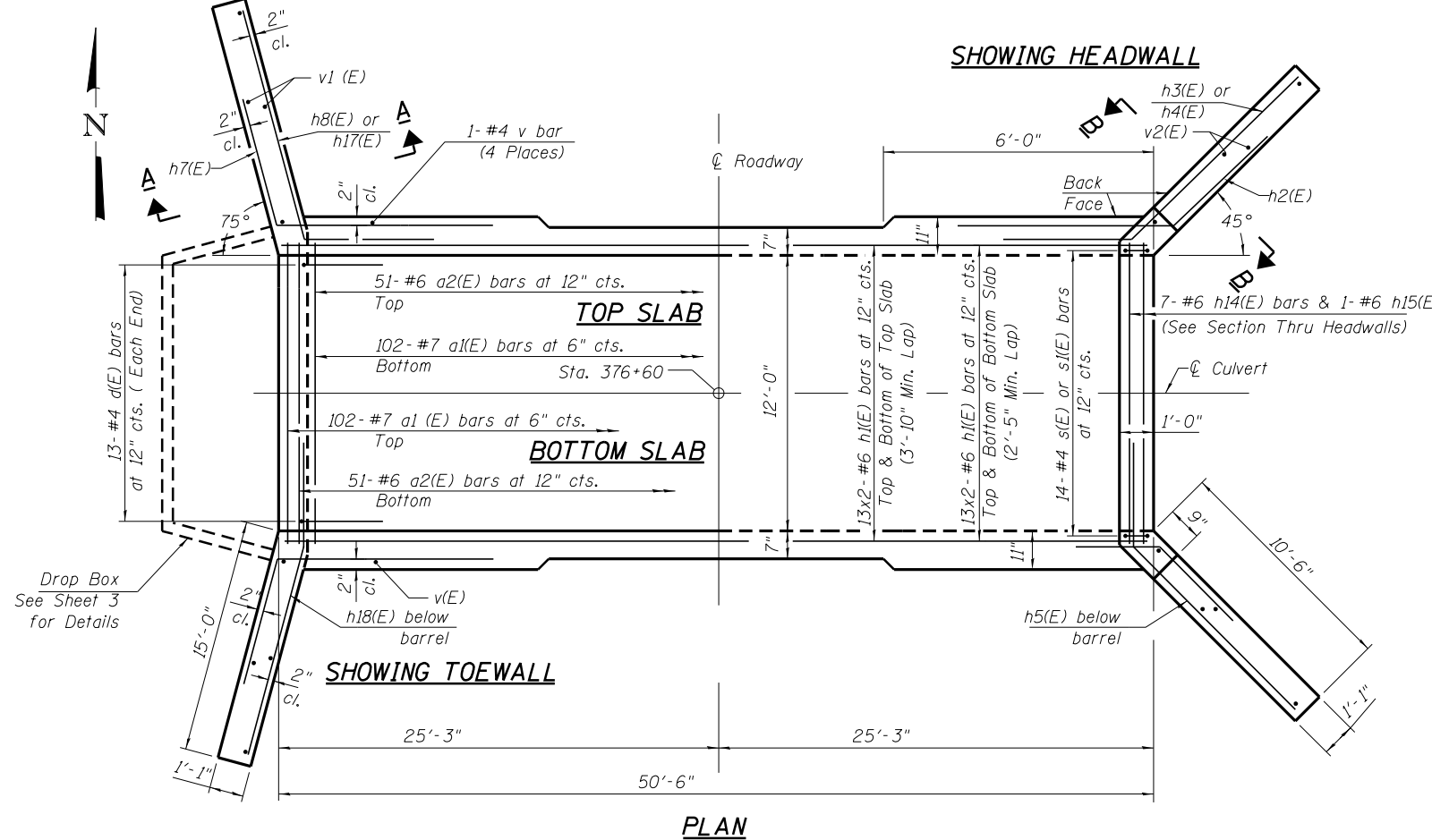
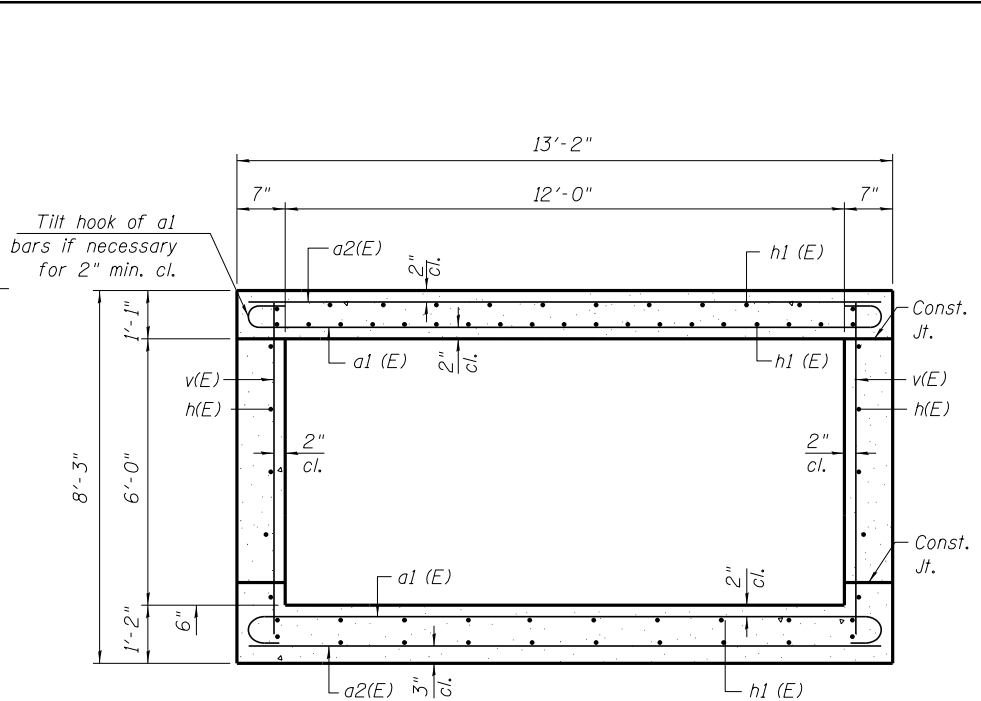
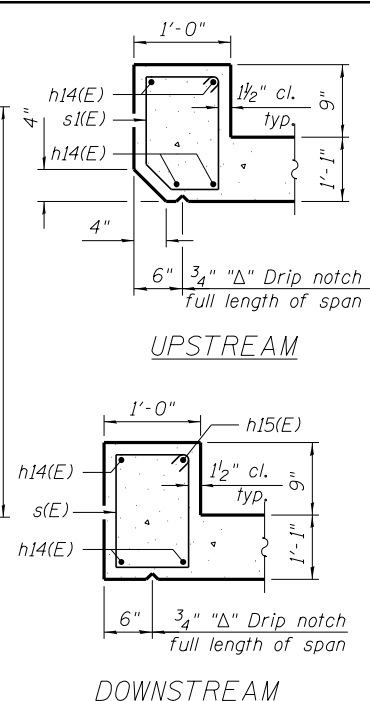
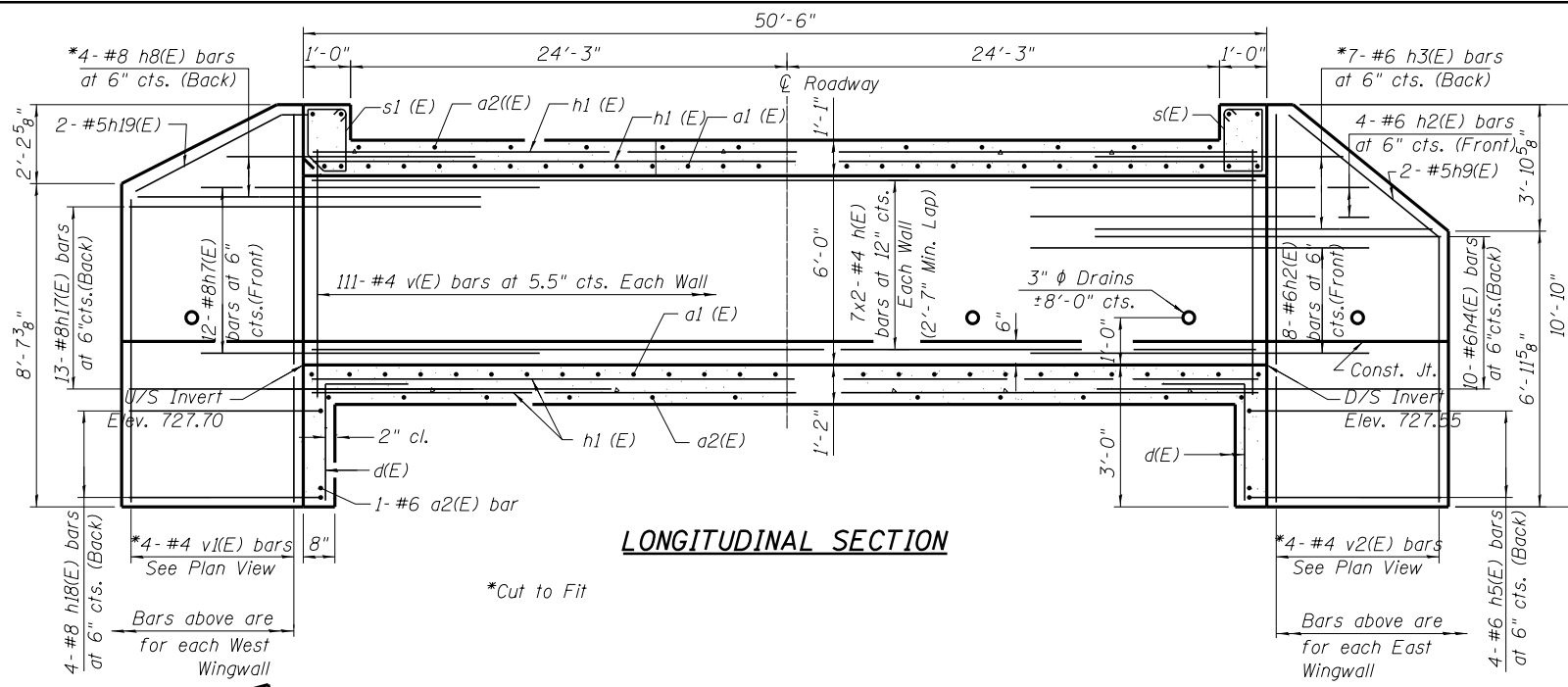
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DRAWN	DRW	5/19/17	REVISED	REV3
CHECKED	LSA	5/19/17	REVISED	REV4

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOX CULVERT PLANS
 SN 027-2555
 SHEET NO. 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	18

CONTRACT NO. 66F60
 [ILLINOIS] FED. AID PROJECT

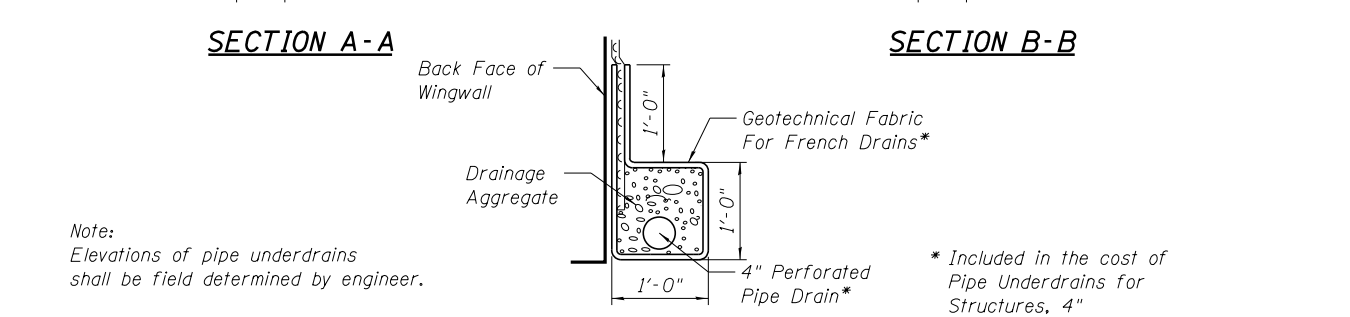


Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.



Note:

Elevations of pipe underdrains shall be field determined by engineer.

* Included in the cost of Pipe Underdrains for Structures, 4"

BLOOM COMPANIES, LLC
 150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
 Phone: (312) 876-9500 Fax: (312) 876-9600



USER NAME = duncanbd	DESIGNED - \$DES\$ 5/16/17	REVISED - \$REV1\$
	CHECKED - \$CHK\$ 5/18/17	REVISED - \$REV2\$
PLOT SCALE = 3.9744' / in.	DRAWN - \$DRW\$ 5/19/17	REVISED - \$REV3\$
PLOT DATE = 9/23/2019	CHECKED - LSA 5/19/17	REVISED - \$REV4\$

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

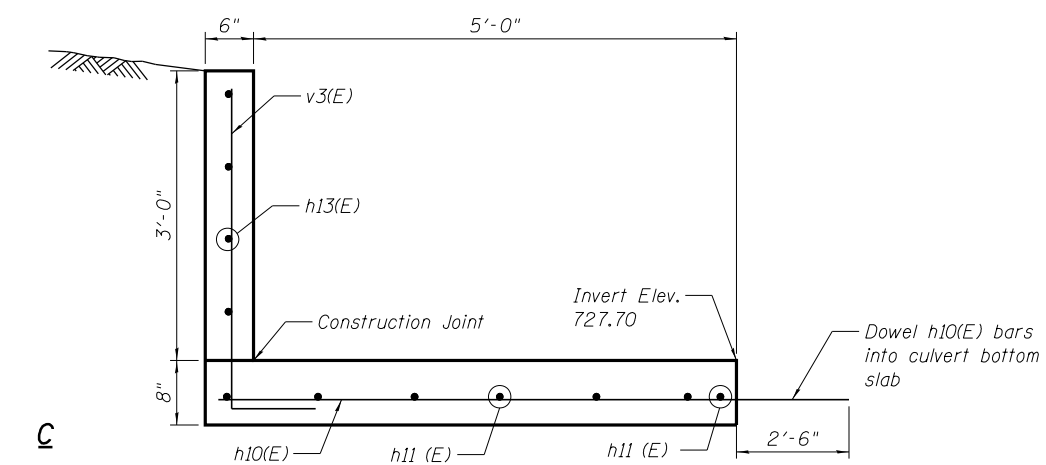
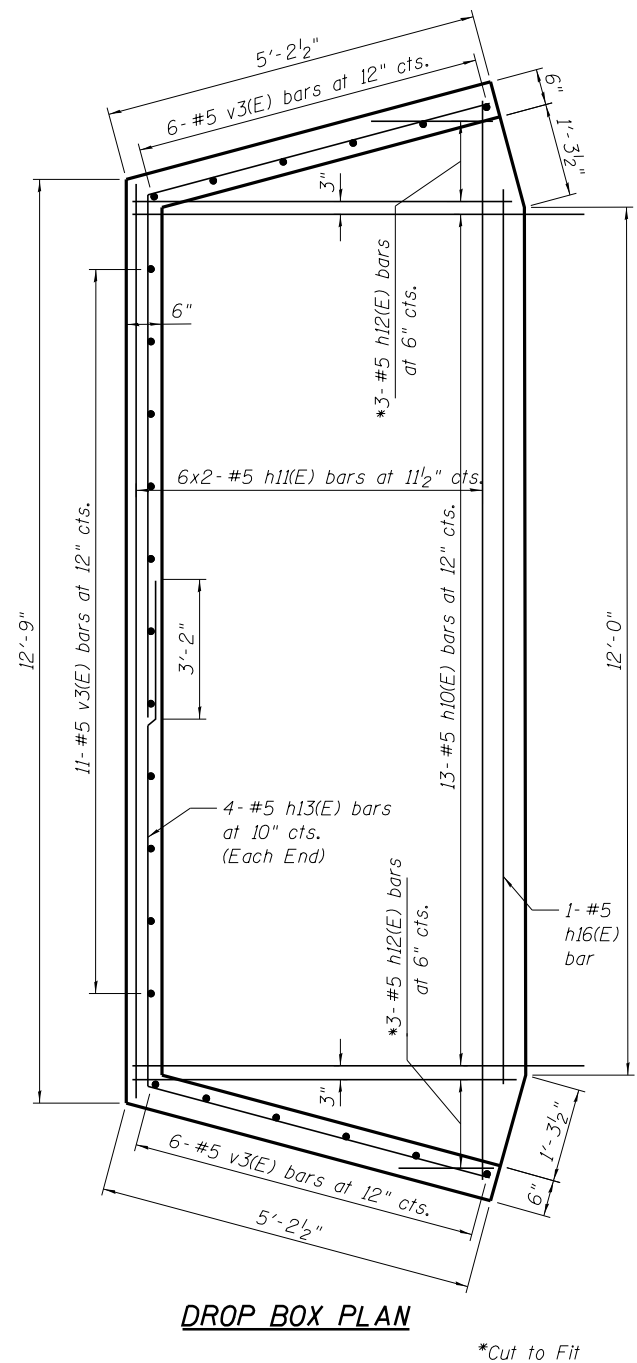
**BOX CULVERT PLANS
SN 027-2555**

SHEET NO. 2 OF 3 SHEETS

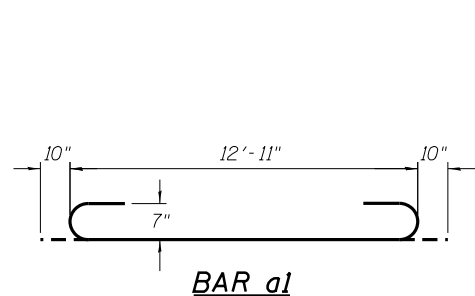
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	19
CONTRACT NO. 66F60				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

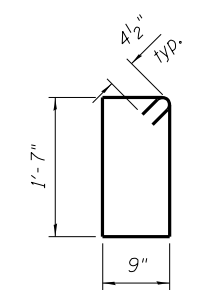
Bar	No.	Size	Length	Shape
a1 (E)	204	#7	14'-7"	
a2(E)	102	#6	12'-11"	
d(E)	26	#4	4'-5"	
h(E)	28	#4	26'-6"	
h1 (E)	104	#6	27'-3"	
h2(E)	24	#6	8'-0"	
h3(E)	14	#6	13'-0"	
h4(E)	20	#6	14'-0"	
h5(E)	8	#6	13'-8 1/4"	
h6(E)	n/a	n/a	n/a	
h7(E)	24	#8	8'-0"	
h8(E)	8	#8	16'-10"	
h9(E)	4	#5	11'-3"	
h10(E)	13	#5	7'-10 1/2"	
h11(E)	12	#5	9'-2"	
h12(E)	6	#5	5'-2"	
h13(E)	8	#5	12'-8"	
h14(E)	7	#6	13'-6"	
h15(E)	1	#6	13'-0"	
h16(E)	1	#5	12'-0"	
h17(E)	26	#8	17'-11 3/8"	
h18(E)	8	#8	17'-10"	
h19(E)	4	#5	15'-3"	
s(E)	14	#4	5'-5"	
s1 (E)	14	#4	5'-3"	
v(E)	226	#4	8'-0"	
v1 (E)	8	#4	10'-4"	
v2(E)	8	#4	10'-5"	
v3(E)	23	#5	5'-2"	
Concrete Box Culverts		Cu. Yd.	95	
Reinforcement Bars		Pound	18,720	



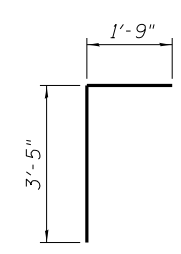
SECTION C-C
All reinforcement in center of concrete section.



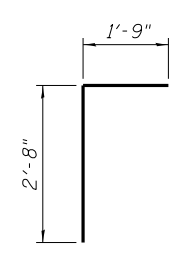
BAR a1



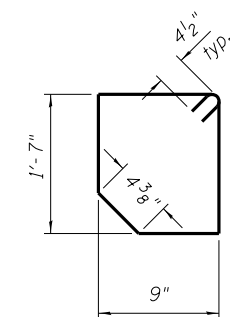
BAR s(E)



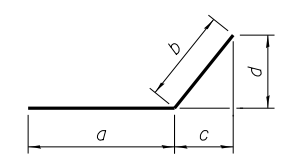
BAR v3



BAR d

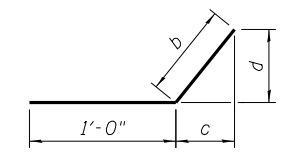


BAR s1(E)



BARS h2(E) thru h8(E), h13(E), h17(E) & h18(E)

Bar	a	b	c	d
h2(E)	5'-0"	3'-0"	2'-1 1/2"	2'-1 1/2"
h3(E)	10'-3"	3'-0"	2'-1 1/2"	2'-1 1/2"
h4(E)	11'-0"	3'-0"	2'-1 1/2"	2'-1 1/2"
h5(E)	10'-8 1/4"	3'-0"	2'-1 1/2"	2'-1 1/2"
h6(E)	N/A	N/A	N/A	N/A
h7(E)	5'-0"	3'-0"	9 3/8"	2'-9 3/8"
h8(E)	13'-10"	3'-0"	9 3/8"	2'-9 3/8"
h13(E)	7'-9 1/4"	4'-10 3/4"	1'-2 3/4"	4'-7 1/2"
h17(E)	14'-11 3/8"	3'-0"	9 3/8"	2'-10 3/4"
h18(E)	14'-10"	3'-0"	2'-10 3/4"	9 3/8"



BARS h9(E) & h19(E)

Bar	b	c	d
h9(E)	10'-4"	9'-7 1/4"	3'-9 7/8"
h19(E)	14'-3"	14'-1"	2'-2 3/8"

Bars indicated thus 6x2-#5 indicates 6 lines of bars with 2 lengths per line.
Bar Lap #5 = 3'-2"

BLOOM COMPANIES, LLC
 150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
 Phone: (312) 876-9500 Fax: (312) 876-9600
 PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION, CONTRACT NO. 2509-2555, SHEET NO. 3 OF 3 SHEETS
 FILE NAME: I:\Projects\2509-2555\Drawings\DOT Documents\DOT Documents\2509-2555\2509-2555-003-DropBox.dwg



USER NAME = duncanbd	DESIGNED - \$DES\$ 5/16/17	REVISED - \$REV1\$
	CHECKED - \$CHK\$ 5/18/17	REVISED - \$REV2\$
PLOT SCALE = 3.9744' / in.	DRAWN - \$DRW\$ 5/19/17	REVISED - \$REV3\$
PLOT DATE = 9/23/2019	CHECKED - LSA 5/19/17	REVISED - \$REV4\$

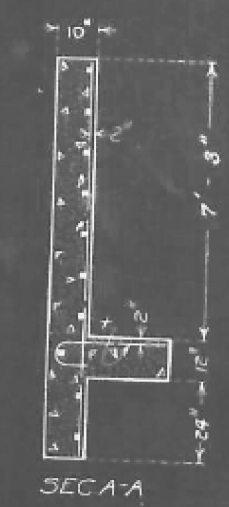
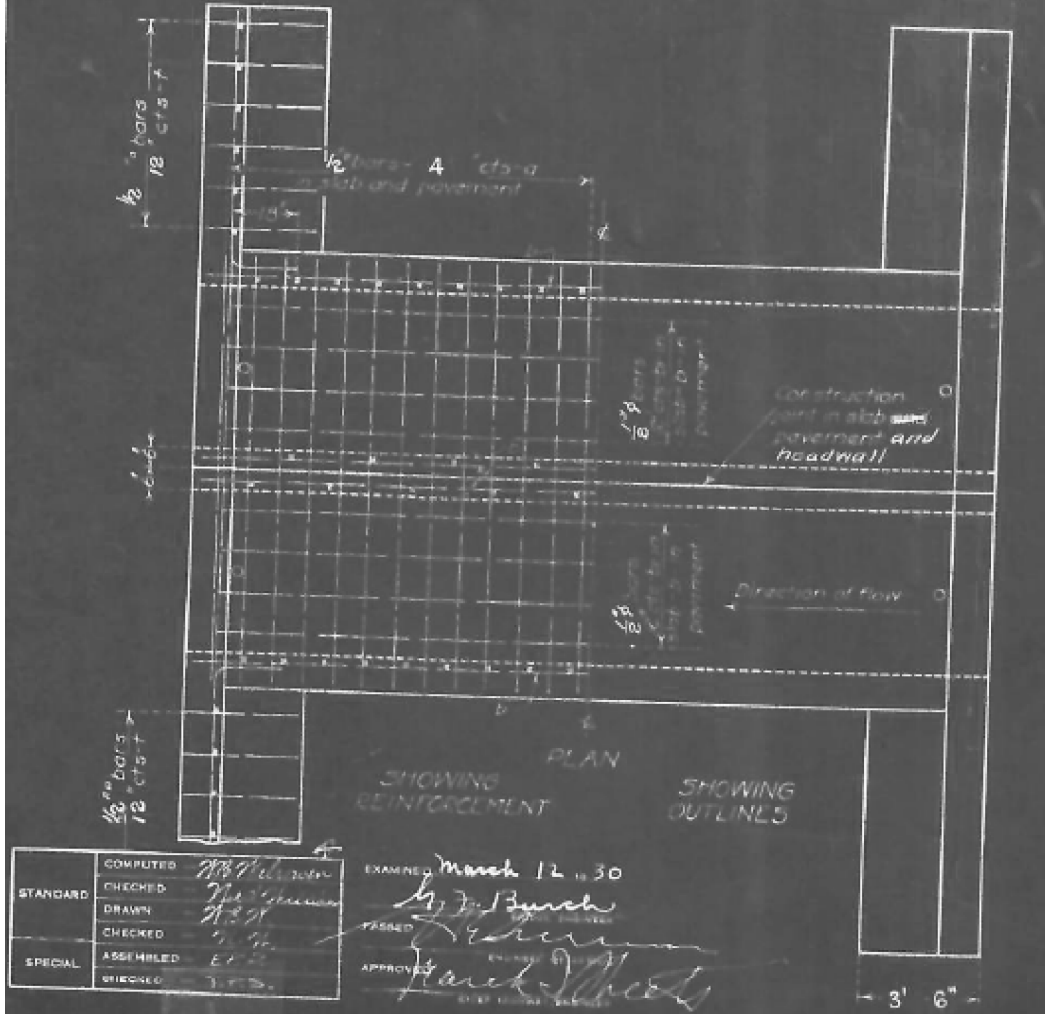
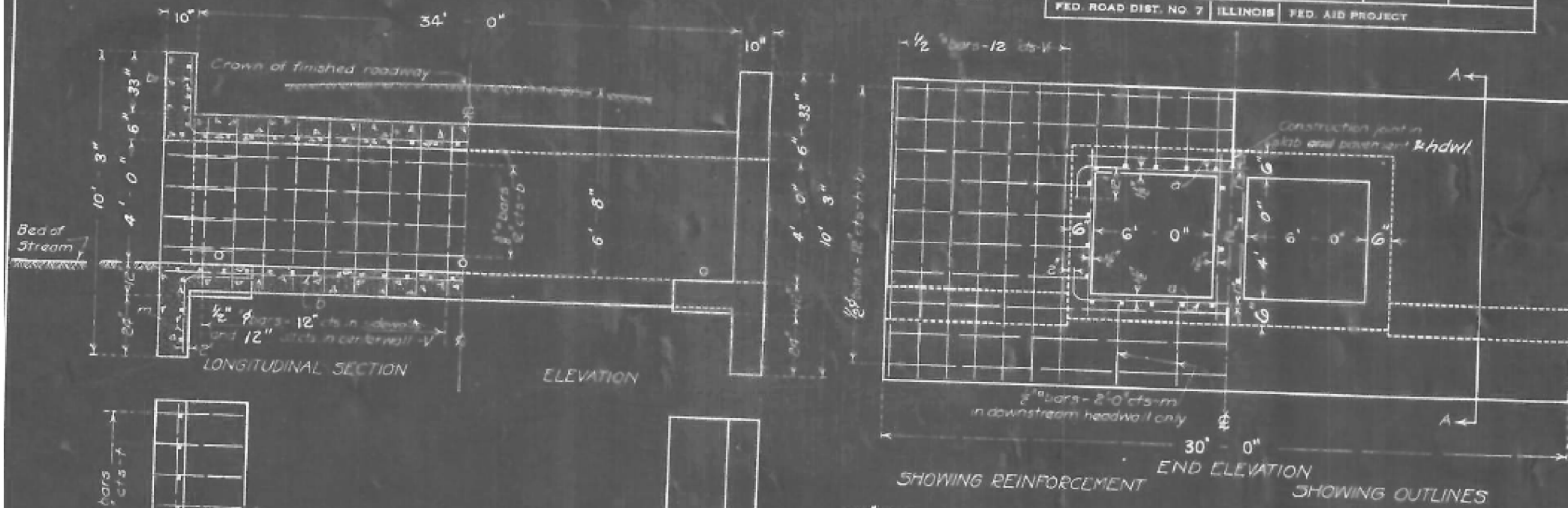
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT PLANS
SN 027-2555**
SHEET NO. 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	20
CONTRACT NO. 66F60				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
R.C. DOUBLE BOX CULVERT

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
115	108	Ford	26	22
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



Adjust height of headwalls to be 12" above shoulder elevation
Build tops of headwalls parallel to grade line

BILL OF MATERIAL

BARS	NO	SIZE	LENGTH
v	102	1/2" #9	4'-9"
w	34	1/2" #8	10'-0"
h	20	1/2" #8	9'-6"
h ₂	8	1/2" #8	16'-6"
h ₂	12	1/2" #8	14'-6"
a	206	1/2" #8	15'-9"
b	48	1/2" #8	18'-6"
b ₂	24	1/2" #8	21'-0"
t	34	1/2" #8	4'-0"
m	6	1/2" #8	5'-0"
Reinforcing Steel-Lbs			4780
Concrete-Cu Yds			46.9

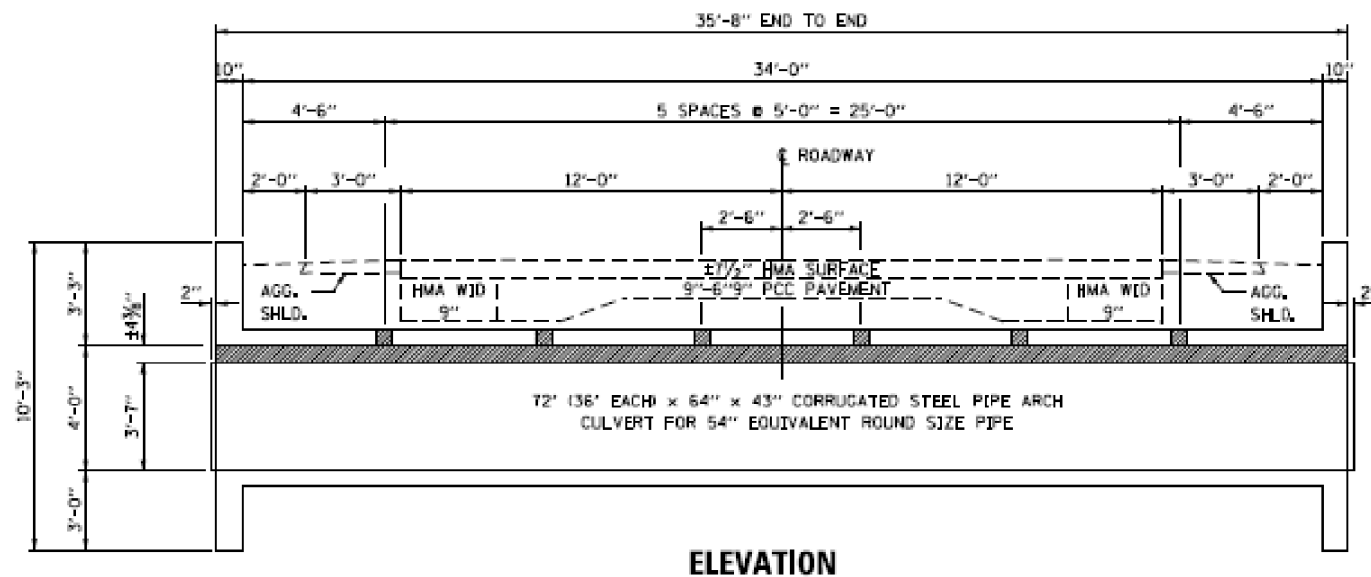
Class Concrete to be used throughout

STANDARD	COMPUTED	EXAMINED
	CHECKED	March 12 1930
	DRAWN	By J. Burch
	CHECKED	Passed
SPECIAL	ASSEMBLED	APPROVED
	CHECKED	Frank Sheets

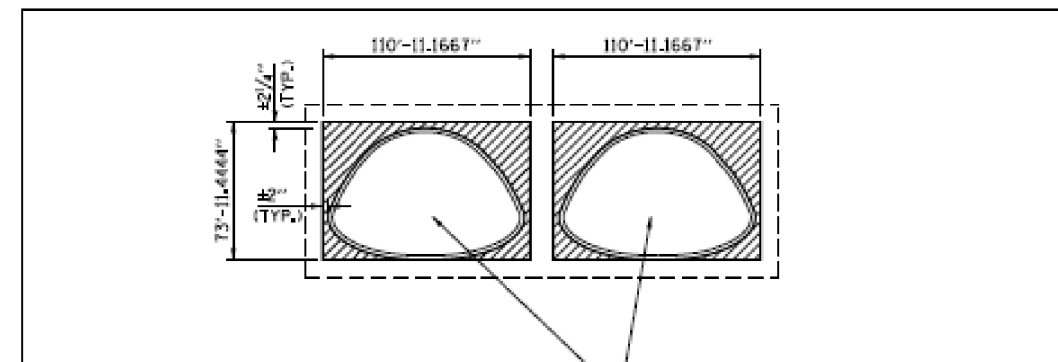
STA. 376+60
S.B.I. ROUTE 115 SEC. 108
FORD, CO.

FOR INFORMATION ONLY

1113

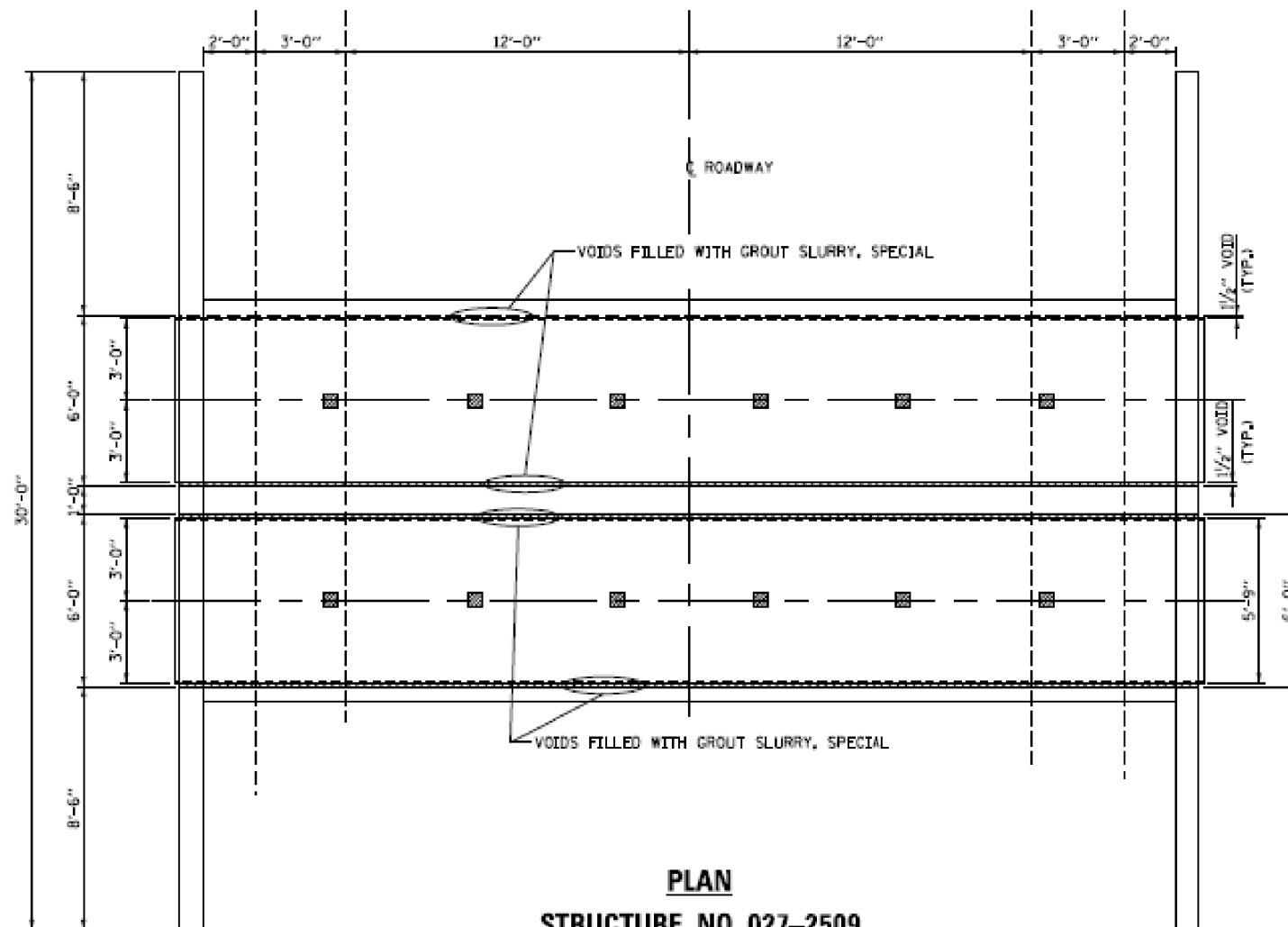


ELEVATION



72' (36' EACH) x 64" x 43" CORRUGATED STEEL PIPE ARCH
CULVERT FOR 54" EQUIVALENT ROUND SIZE PIPE

END ELEVATION



PLAN
STRUCTURE NO. 027-2509

NOTES:

1. EXISTING BOX CULVERT SHALL BE DEWATERED AND CLEANED OF ALL FOREIGN MATERIALS.
2. EXISTING BOX CULVERT SHALL BE DEWATERED AND CLEANED OF ALL FOREIGN MATERIALS.
3. PIPE CULVERTS SHALL BE INSERTED INTO EXISTING BOX CULVERT AS SHOWN ON PLAN DETAILS.
4. HATCHED AREA REPRESENTS APPROVED GROUT SLURRY.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
PIPE CULVERT, CLASS D, TYPE 1 EQUIVALENT ROUND SIZE 54"	FOOT	120
PLACEMENT OF CEMENT GROUT	CUL. FT.	540
CULVERT TO BE CLEANED	EACH	1
HOLES DRILLED	EACH	12

FOR INFORMATION ONLY

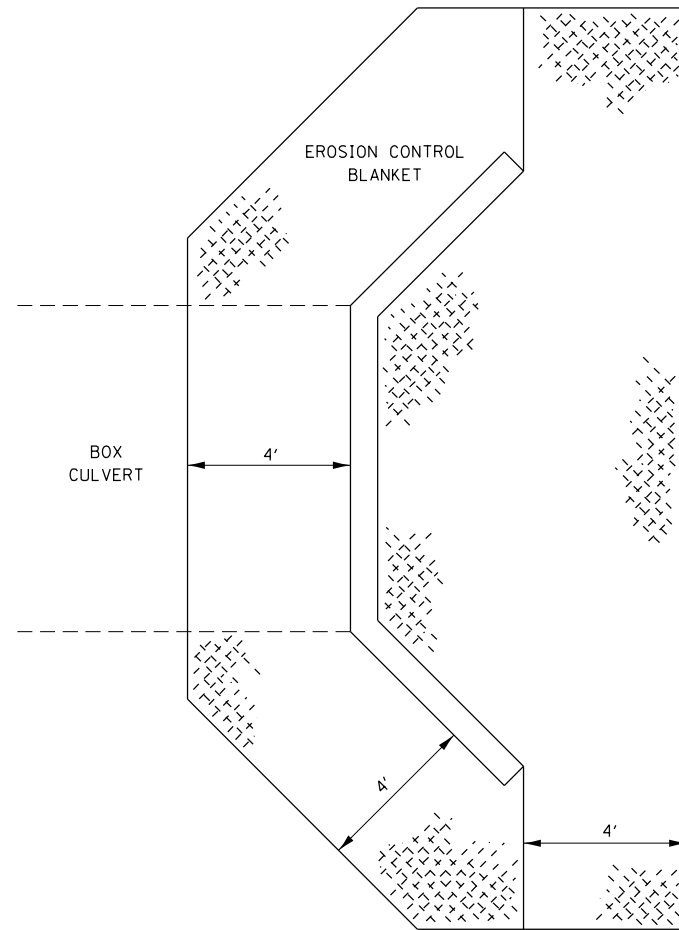
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	PLOT DATE = 4/2/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

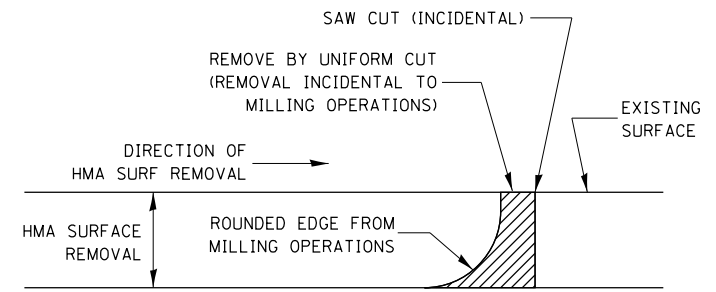
**EXISTING BOX CULVERT INFORMATION
SN 027-2509**

SCALE: _____ SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	23
			CONTRACT NO. 66F60	
			ILLINOIS FED. AID PROJECT	

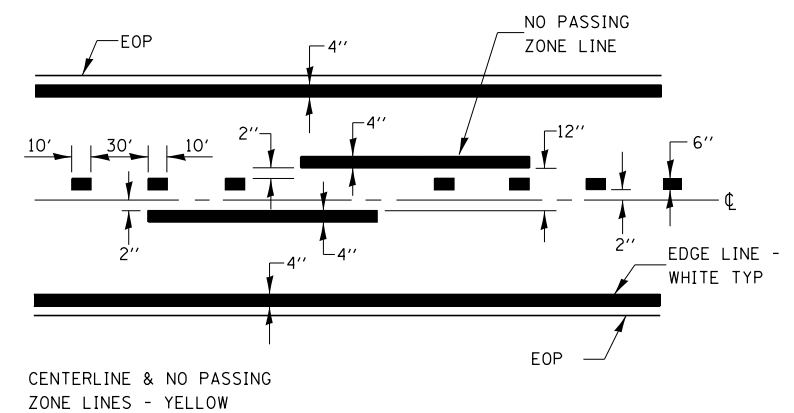


**EROSION CONTROL BLANKET
AT BOX CULVERT END SECTIONS**



NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
THEN A SAW CUT SHALL BE USED TO MANUFACTURE
A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
THE ENGINEER SHALL BE THE SOLE JUDGE
CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS



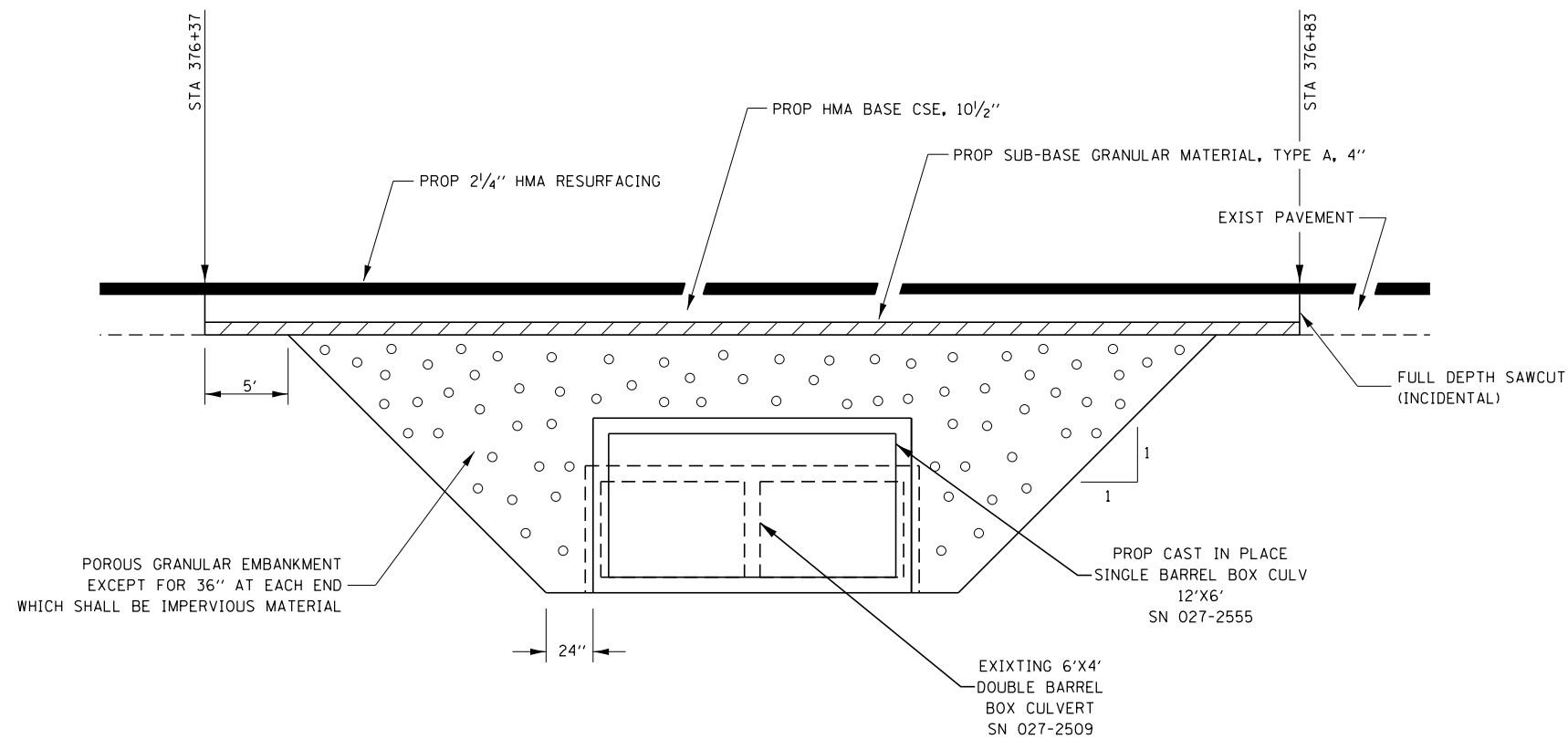
PAVEMENT MARKING

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	PLOT DATE = 4/2/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS			
SCALE: _____	SHEET _____	OF _____	SHEETS
STA. _____	TO STA. _____		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	24
CONTRACT NO. 66F60				
ILLINOIS		FED. AID PROJECT		



SECTION THROUGH CAST-IN-PLACE BOX CULVERT

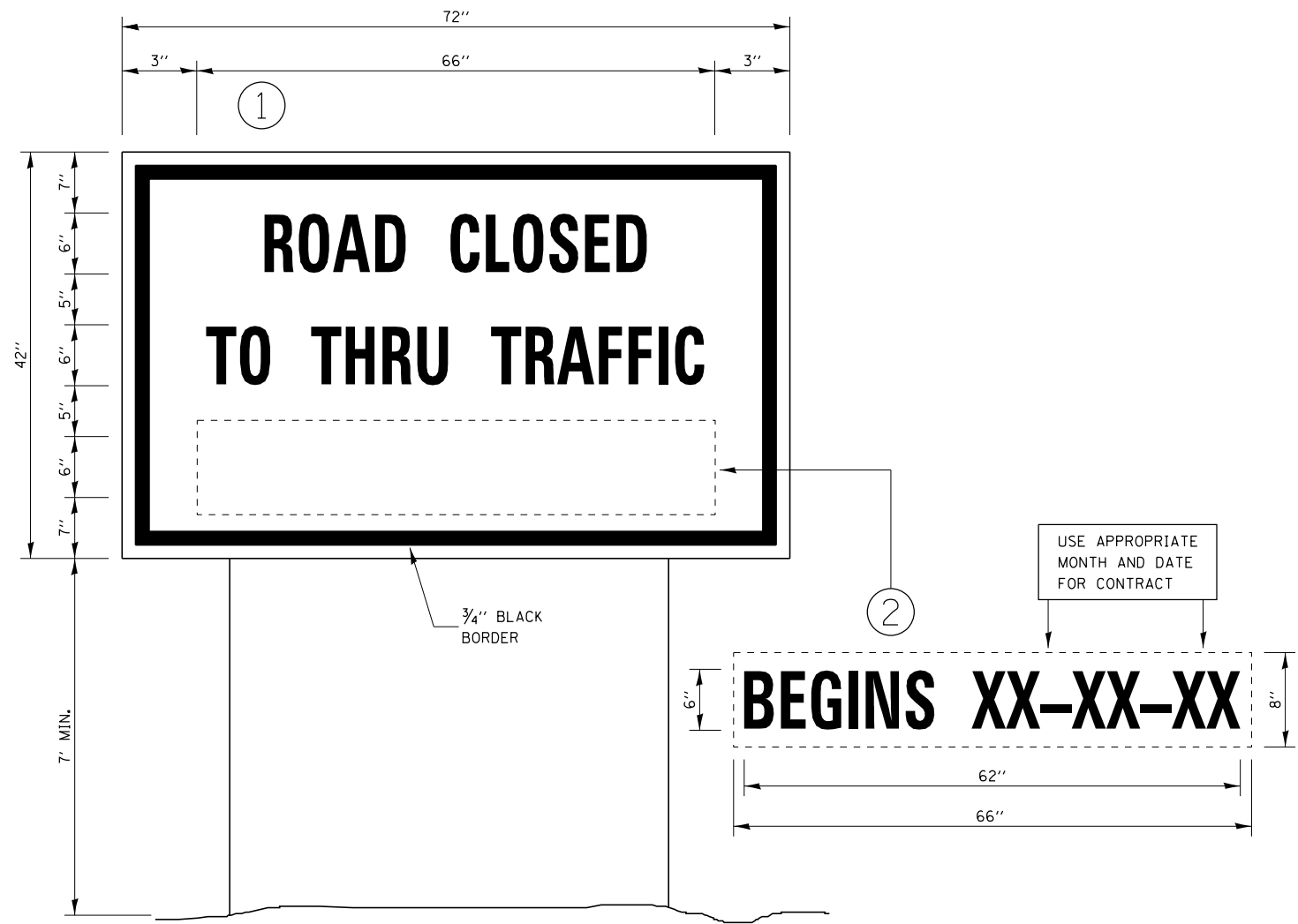
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	PLOT DATE = 4/2/2019	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	(108)CR-2509	FORD	34	25
CONTRACT NO. 66F60				
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING

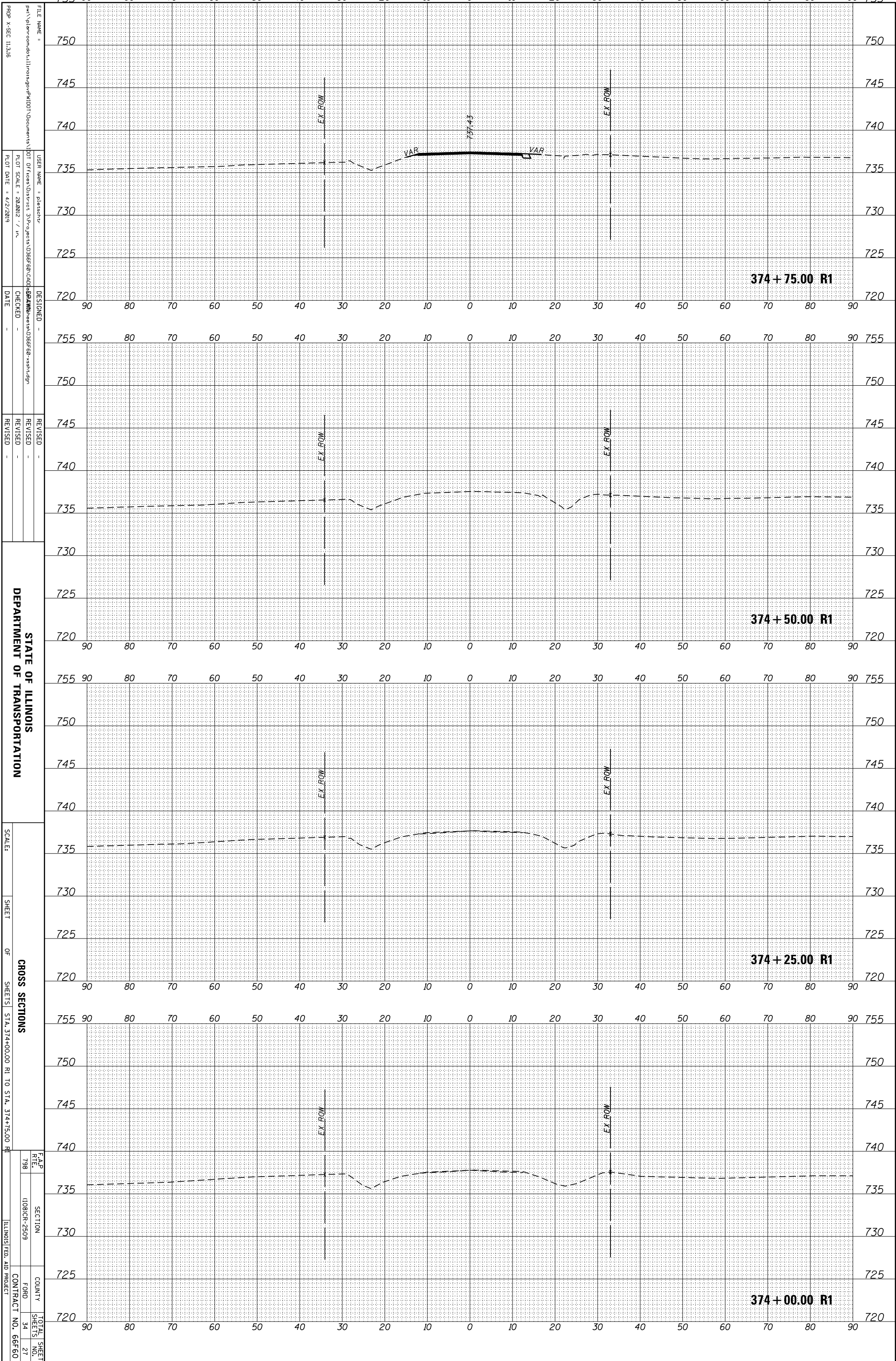
NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

FILE NAME =	USER NAME = pletschr	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 66F60					
	PLOT DATE = 4/2/2019	DATE - _____	REVISED - _____			SCALE: _____	SHEET _ OF _ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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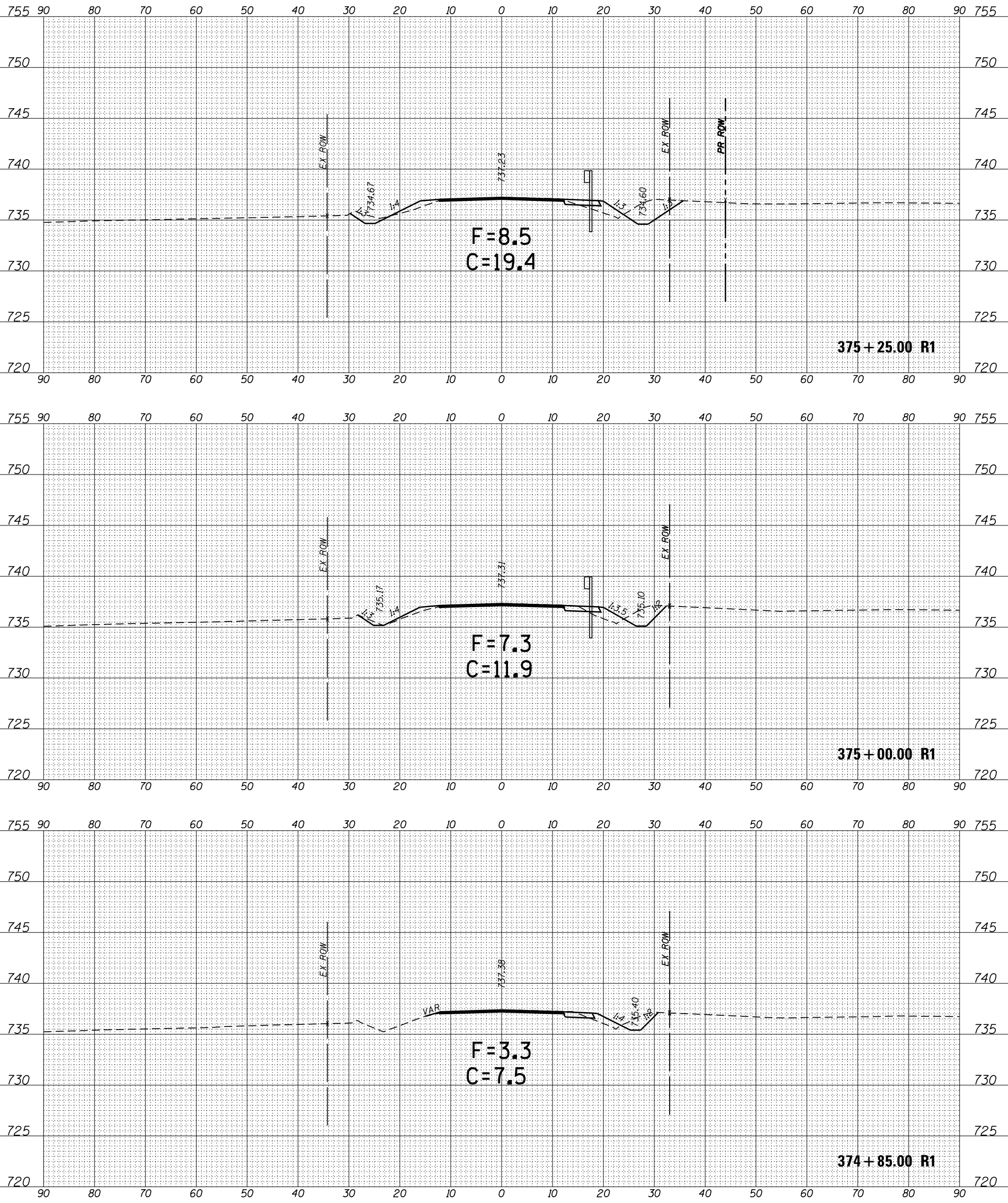
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:
 SHEET OF SHEETS:
 CROSS SECTIONS
 STA. 374+00.00 R1 TO STA. 374+75.00 R1
 F.A.P. R.T.E. 798
 SECTION I1081CR-2309
 COUNTY FORD
 CONTRACT NO. 66F60
 TOTAL SHEET NO. 34
 SHEET NO. 27
 ILLINOIS FED. AID PROJECT

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

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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 USER NAME: plesche
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 REVISION:
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 STA. 374+85.00 R1 TO STA. 375+25.00 R1
 SHEET OF SHEETS
 SCALE:
 F.A.P. R.T.E. SECTION COUNTRY COUNTY SHEETS TOTAL SHEET NO.
 798 (I08)CR-209 FORD 34 28
 ILLINOIS FED. AID PROJECT CONTRACT NO. 66F60



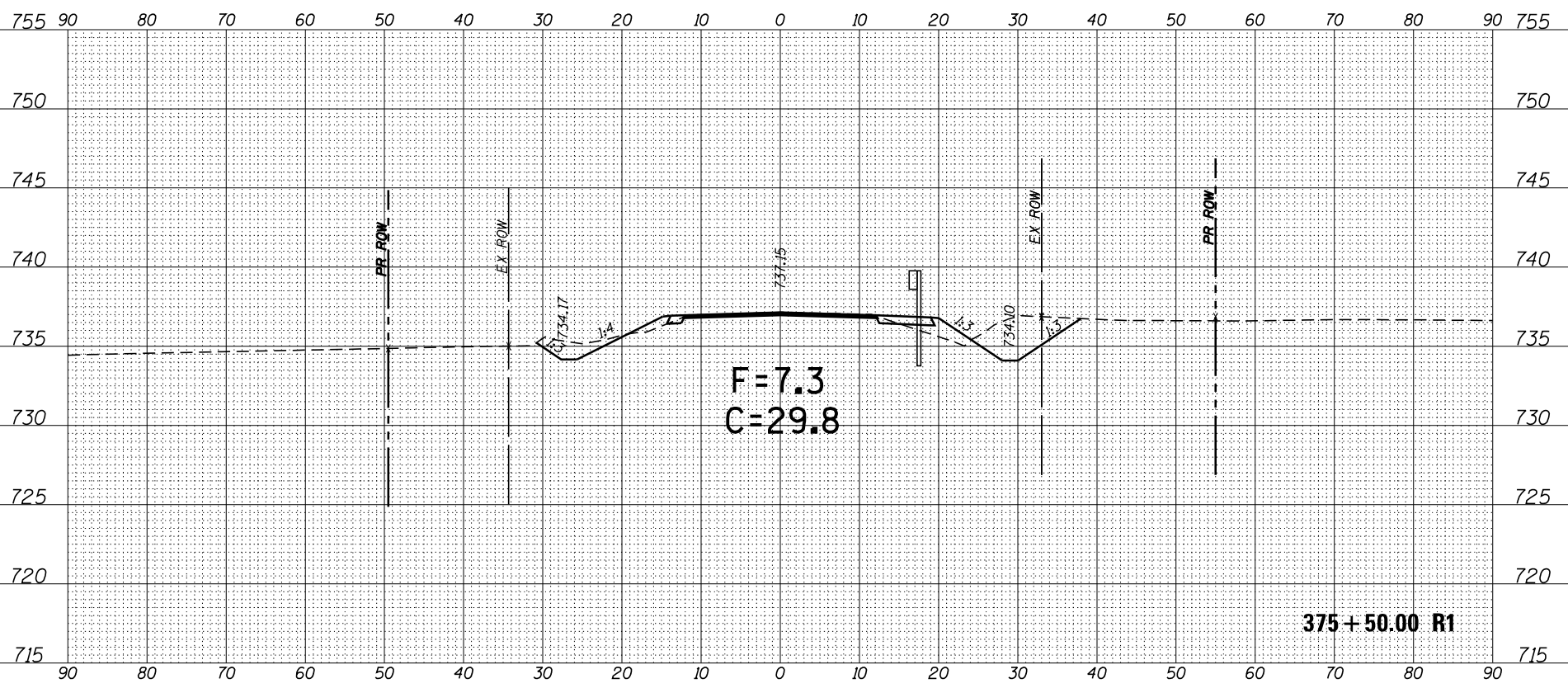
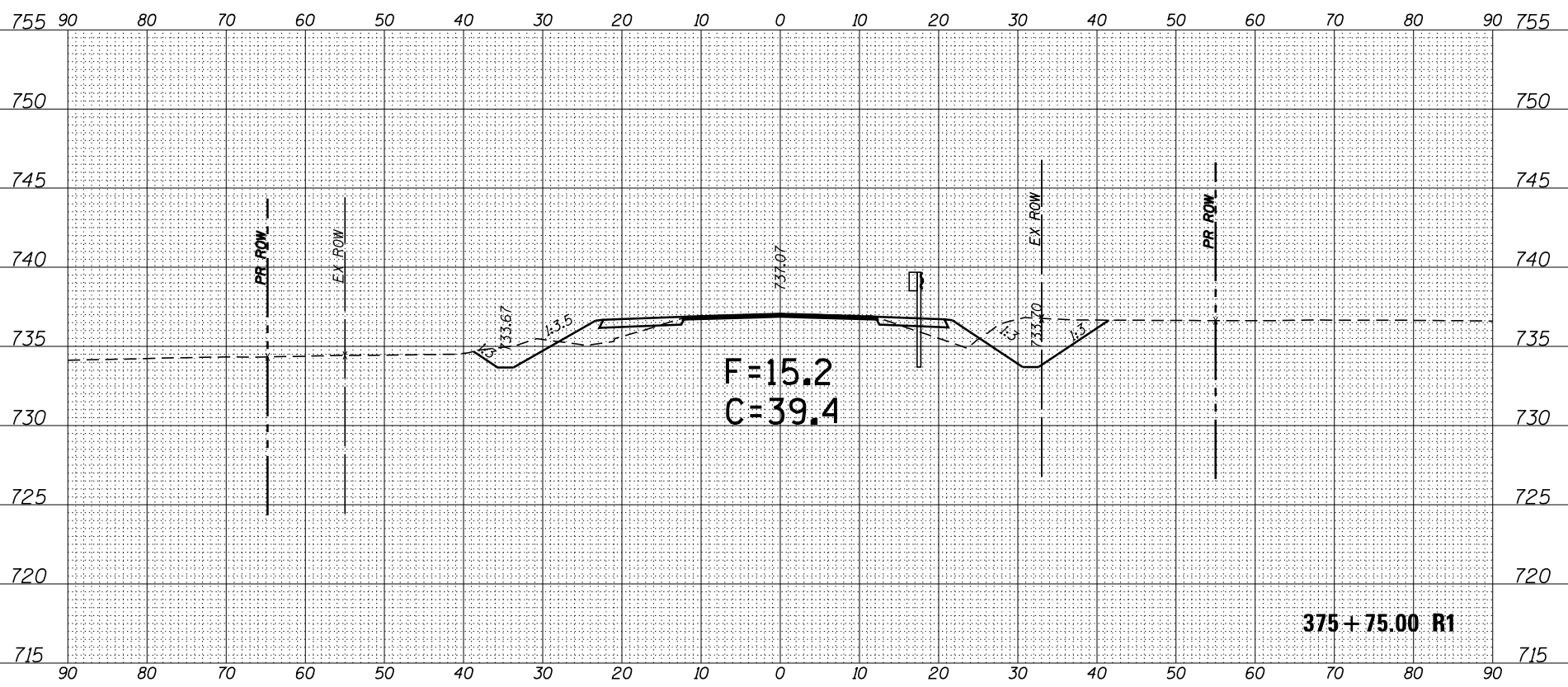
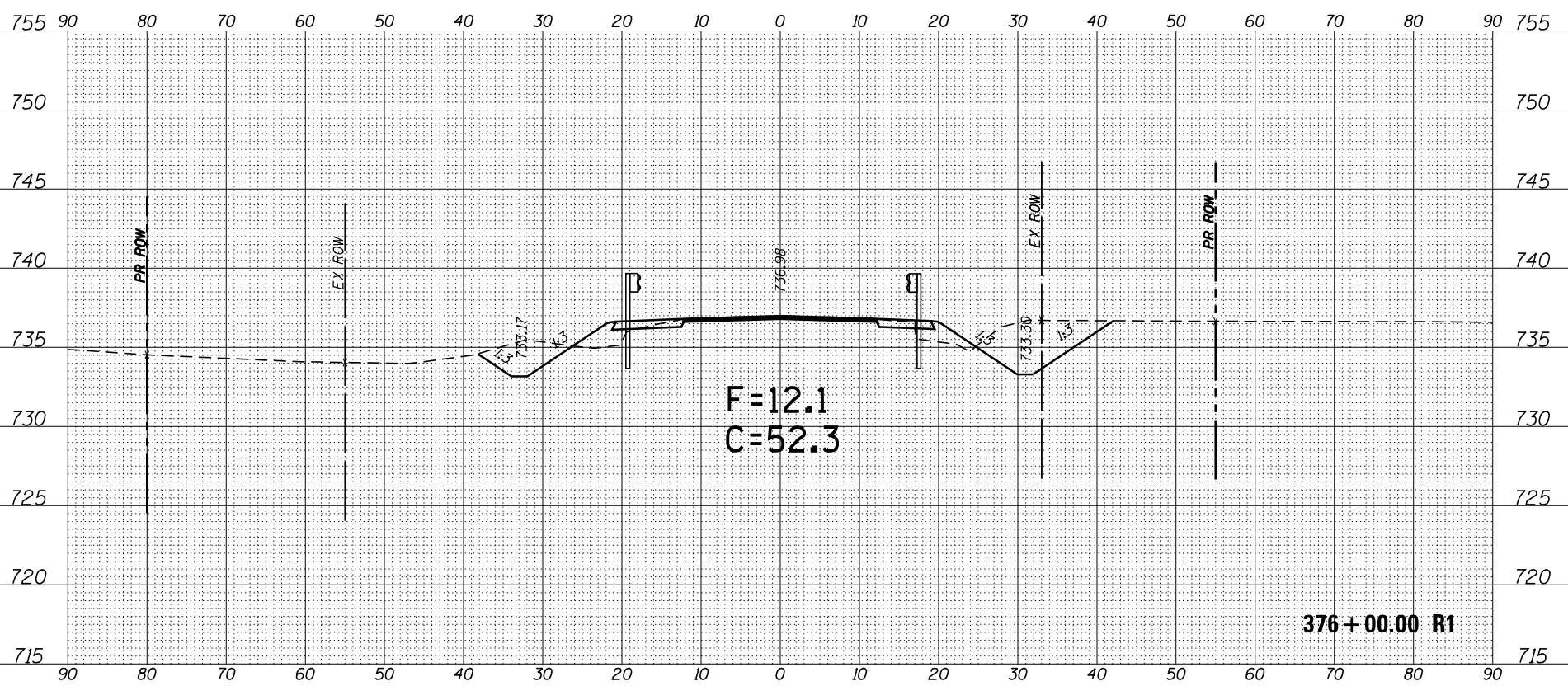
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NOTE BOOK	PLOTTED		
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	AREAS		
NO.	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

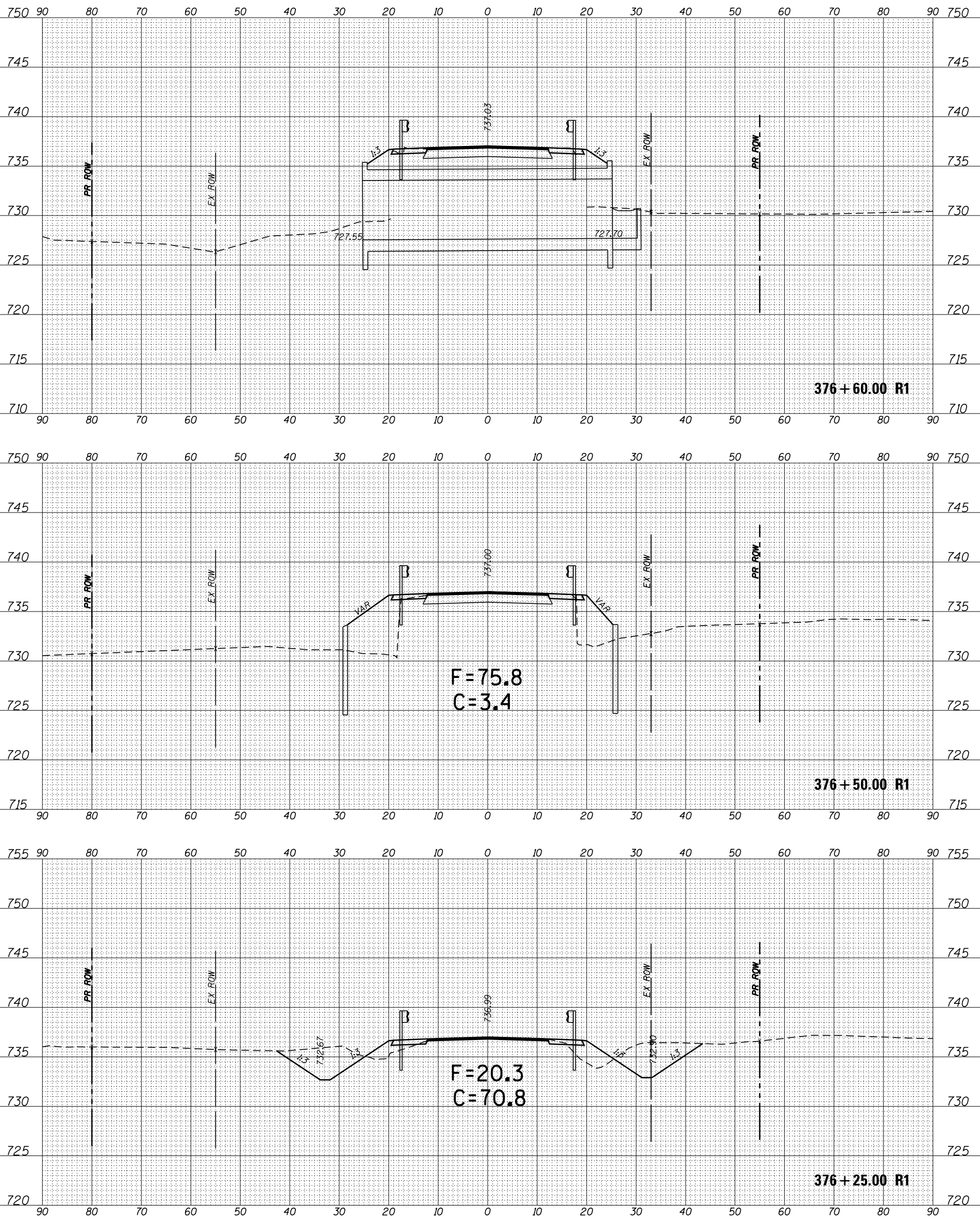
SCALE:
 SHEET OF SHEETS:
 CROSS SECTIONS
 STA. 375+50.00 R1 TO STA. 376+00.00 R1
 SECTION:
 COUNTY:
 FORD
 CONTRACT NO.
 TOTAL SHEET NO.
 SHEETS: 34
 SHEET NO. 29



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NOTE BOOK	PLOTTED		
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	AREAS		
	AREAS CHECKED		

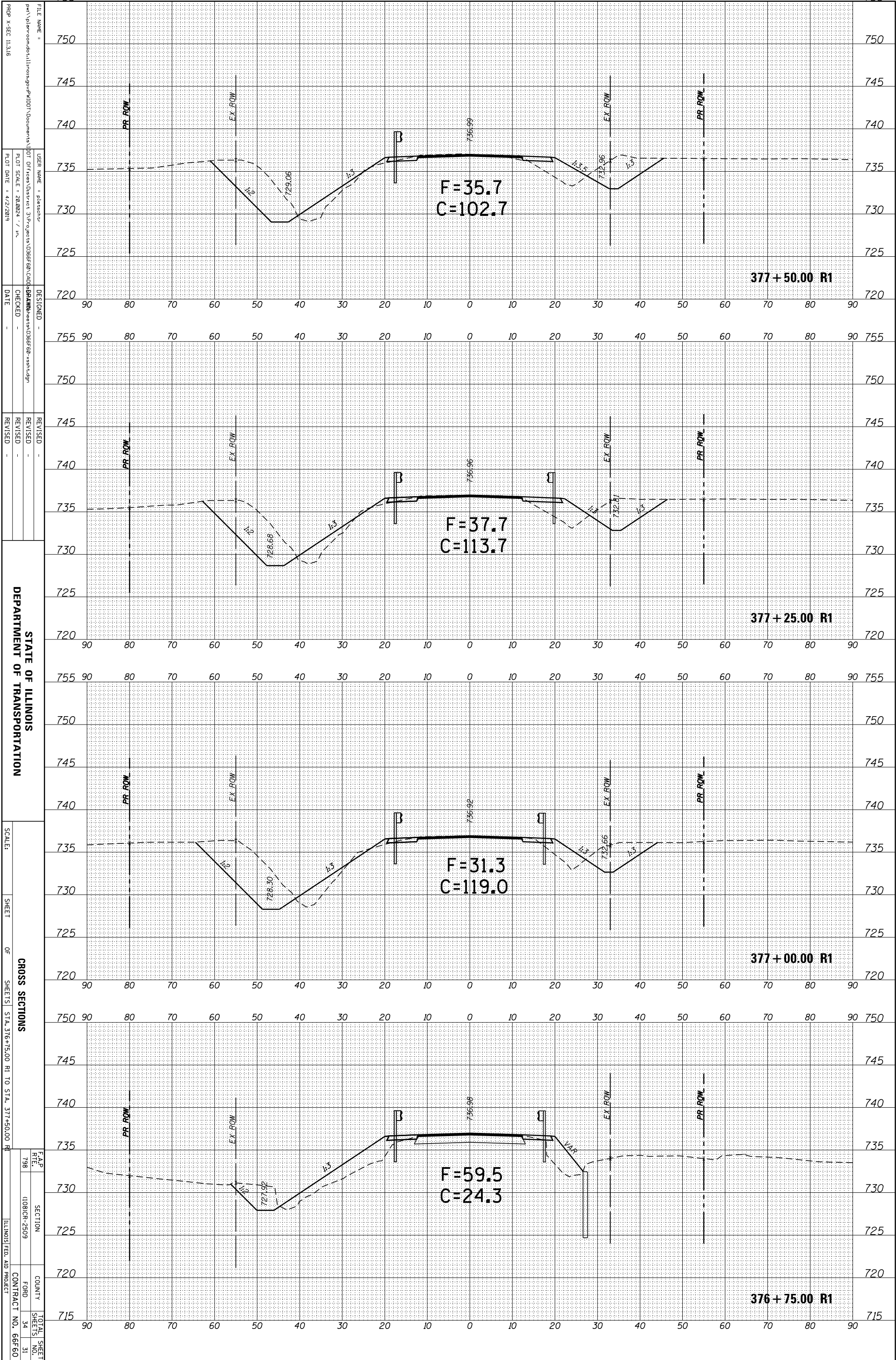
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	AREAS		
	AREAS CHECKED		

FILE NAME:
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 REVISIONS:
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 STA. 376+25.00 R1 TO STA. 376+60.00 R1
 SHEET 798 OF 798
 COUNTY:
 CONTRACT NO.: 66F60
 TOTAL SHEET NO.: 34 OF 30



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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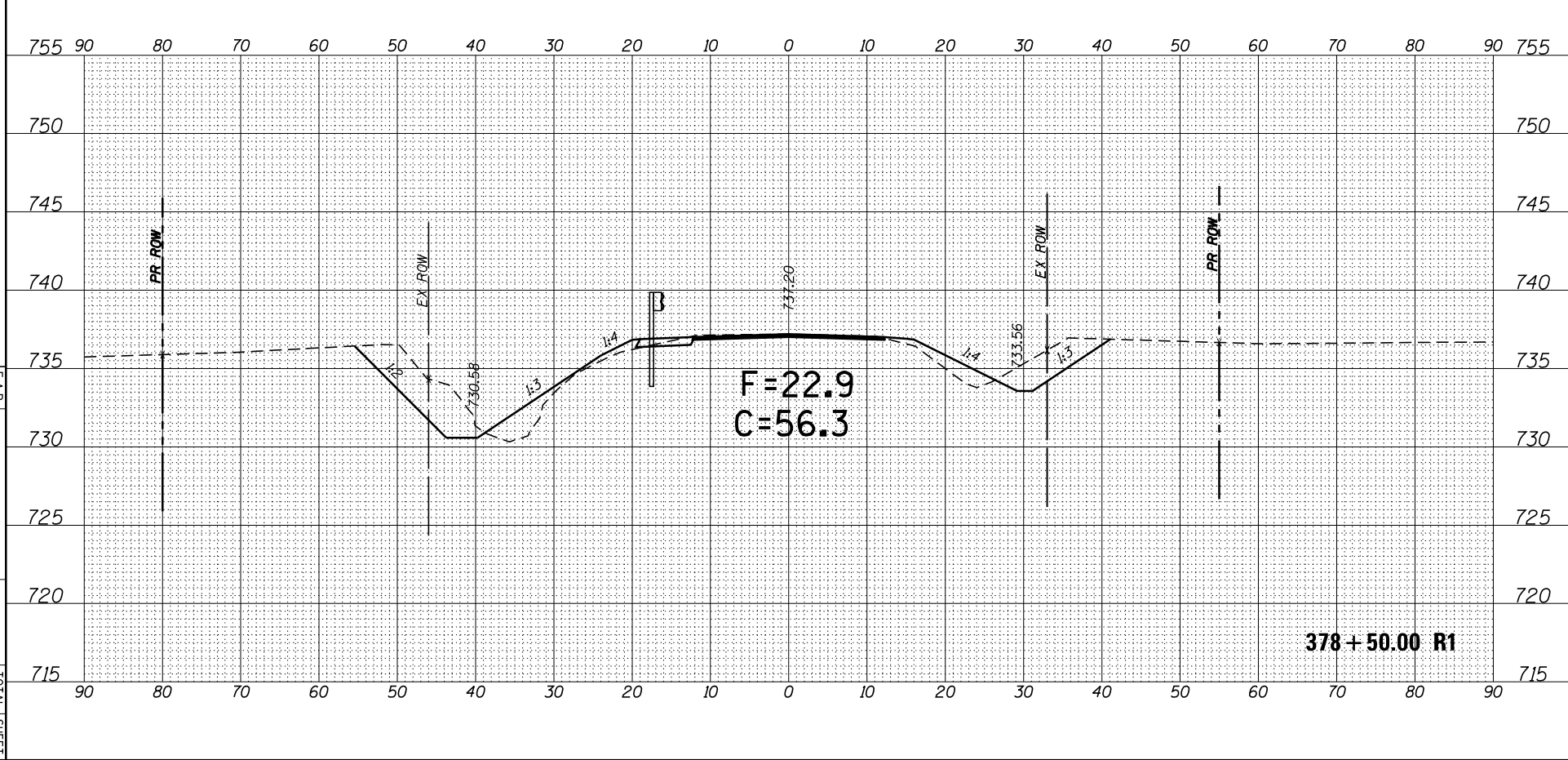
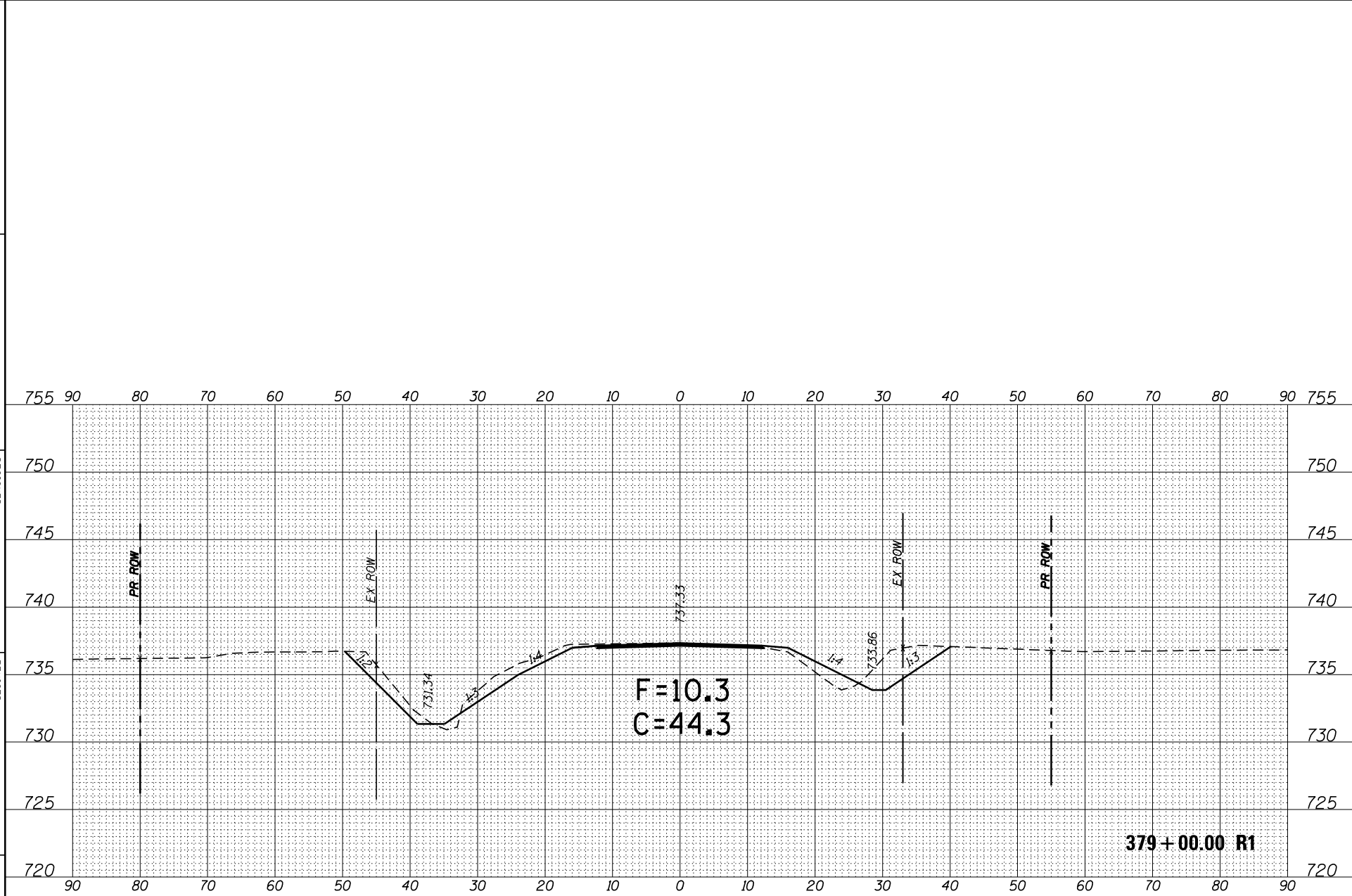
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 STA. 376+75.00 R1 TO STA. 377+50.00 R1
 SHEET NO. 798
 COUNTY: FORD
 CONTRACT NO. 66F60

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

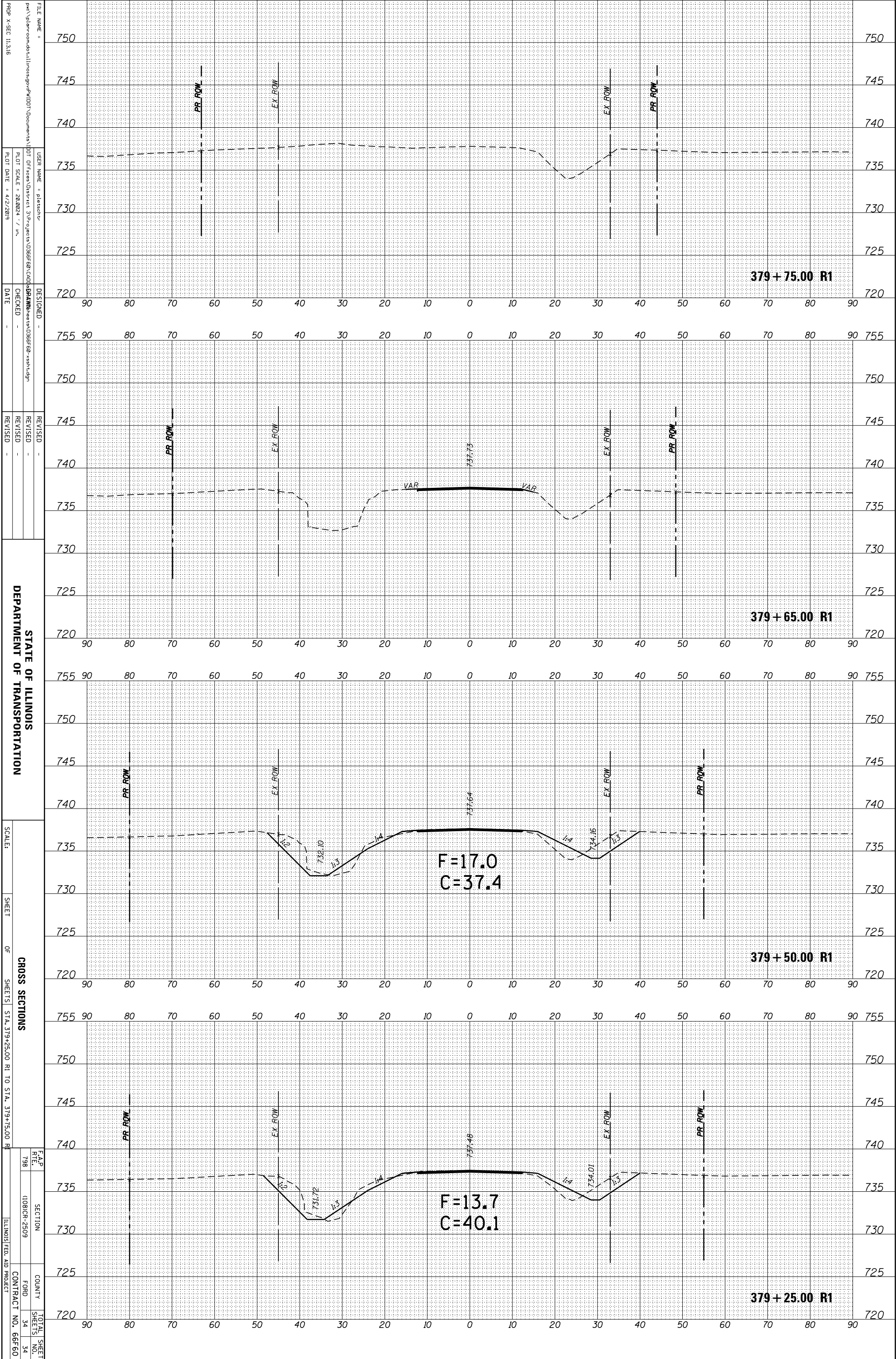
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NOTE BOOK	PLOTTED		
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	AREAS		
NO.	AREAS CHECKED		

FILE NAME:
 USER NAME: pletschke
 DESIGNED:
 CHECKED:
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 REVISIONS:
 DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS
 STA. 378+50.00 R1 TO STA. 379+00.00 R1
 SHEET 34 OF 33
 COUNTY: FORD
 CONTRACT NO.: 66F60
 ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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FILE NAME =
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 REVISION

DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 STA. 379+25.00 R1 TO STA. 379+75.00 R1

SHEET 798 OF 800 SHEETS

F.A.P. R.T.E. SECTION COUNTY TOTAL SHEET NO.
 798 (108)R-2509 FORD 34 34
 ILLINOIS FED. AID PROJECT CONTRACT NO. 66F60