

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

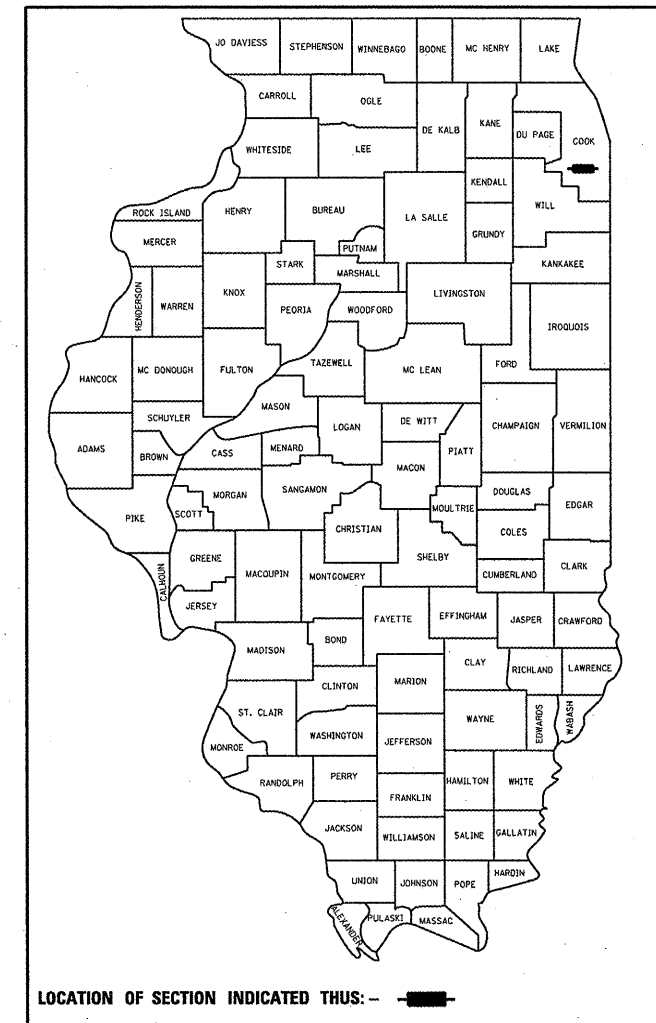
FAP ROUTE 344: IL 83 (CALUMET SAG ROAD)
OVER MILL CREEK
SECTION: 102Y-A-B
PROJECT: NHF-0344 (055)
BRIDGE REPLACEMENT
COOK COUNTY
SN. 016-2826
C-91-477-01

F.A.P. RTE. 344	SECTION 102Y-A-B	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 1
ILLINOIS			CONTRACT NO. 62339	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

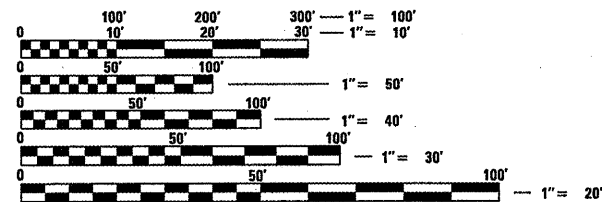
PROJECT LOCATED IN:
UNINCORPORATED COOK COUNTY

D-91-477-01



DESIGN DESIGNATION: 12,925 (15) OTHER PRINCIPAL ARTERIAL 5.5 (PCC-20)

TRAFFIC DATA
ADT (2001) 11,200
ADT (2020) 13,500
SPEED LIMIT 55 M/HR



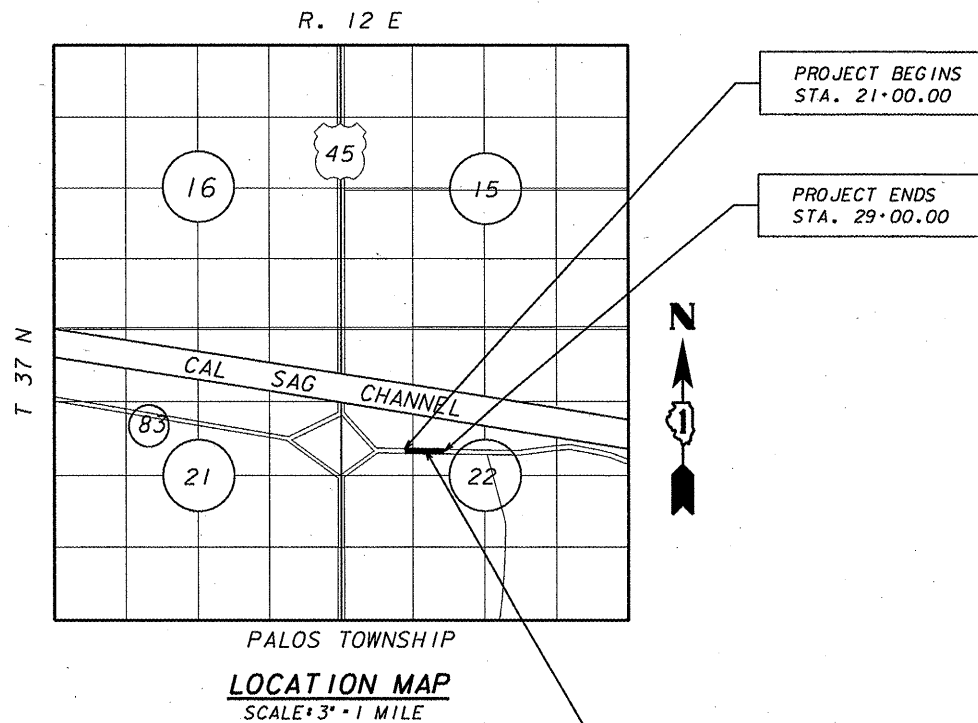
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432

PROJECT MANAGER: KEN ENG

CONTRACT NO. 62339



GROSS LENGTH = 800.00 FT. = 0.15 MILE
NET LENGTH = 800.00 FT. = 0.15 MILE

STA. 26+07.50
OLD S.N. 016-0430
NEW S.N. 016-2826

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 6, 2012

James M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23, 2012
John D. Baranzelli, P.E.
actg ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 2012
William R. Fry
actg DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

SHEET NO.	INDEX OF SHEETS DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5	SCHEDULE OF QUANTITIES
6	ALIGNMENT, TIES, AND BENCHMARKS
7	ROADWAY PLAN AND PROFILE SHEETS
8-9	PROPOSED DETOUR PLAN
10	EROSION CONTROL PLAN
11	PAVEMENT MARKING AND LANDSCAPING PLAN
12-19	STRUCTURE PLANS
20	BUTT-JOINT AND HMA TAPER DETAILS (BD-32)
21	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
22	DISTRICT ONE TYPICAL PAVEMENT MARKING (TC-13)
23	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
24	ARTERIAL ROAD INFORMATION SIGN (TC-22)
25-33	CROSS SECTIONS

406201 MAILBOX TURNOUT

LIST OF STATE STANDARDS:

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEM
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD, STRIPS / SHLDS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	OFF-RD OPERATIONS 2L, 2W 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARD RAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701326-04	LANE CLOSURE 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH
701901-02	TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND MCHENRY COUNTY.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

THE EXISTING STANDARD 2399 BRIDGE RAIL SHALL BE SALVAGE AND DELIVERED TO THE DISTRICT BRIDGE YARD IN ELK GROVE VILLAGE. CONTACT TOM MATYAS @ (847) 951-1444 FOR THE DELIVERY OF RAIL.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

CONTACT STEVE LIPKIE IN THE BUREAU OF MAINTENANCE AT (847) 705-4171 72 HOURS PRIOR TO SELECTIVE CLEARING.

"THE GENERAL CONTRACTOR IS REQUIRED TO HIRE ENVIRONMENTAL FIRM TO CONTINUOUSLY MONITOR FOR WORKER SAFETY AND SDOIL CONTAMINATION AT SEVERAL AREAS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS."

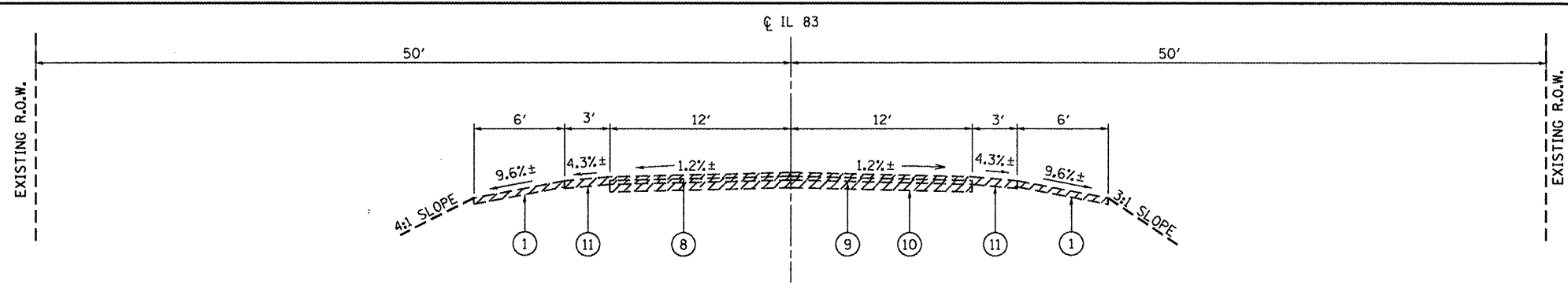
DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

FILE NAME *	USER NAME = jmliler	DESIGNED - SF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 83 OVER MILL CREEK INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D162339-aht-gennote.dgn		DRAWN - JM	REVISED -			344	102Y-A-B	COOK	31	2	
	PLOT SCALE = Full Size 1=1	CHECKED -	REVISED -			CONTRACT NO. 62339					
	PLOT DATE = 7/12/2011 7:33:14 AM	DATE -	REVISED -			SCALE: NONE	SHEET NO. 2 OF 27 SHEETS	STA. 21+00	TO STA. 29+00	ILLINOIS FED. AID PROJECT	

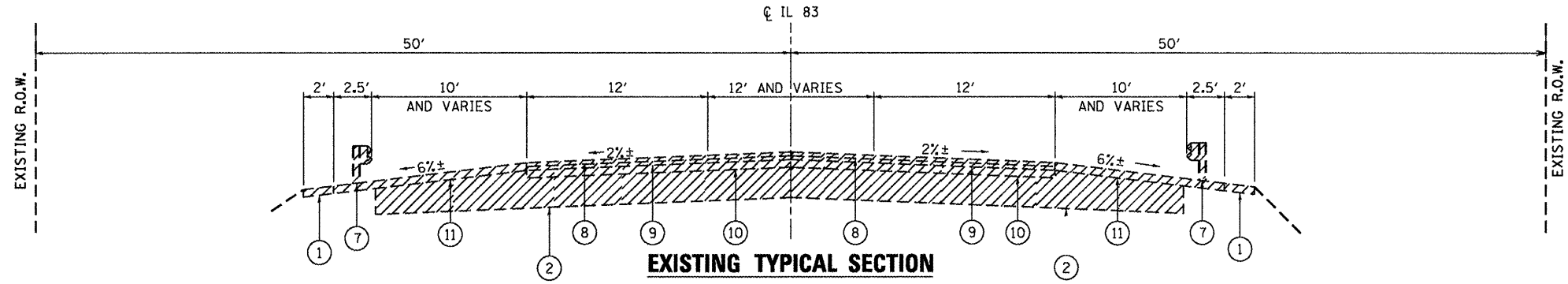
SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN 80% FED. 20% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT								CODE NO	ITEM	UNIT							
				0011										0011					
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	281	281						66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	100	100						66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2					
20101100	TREE TRUNK PROTECTION	EACH	27	27						67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
20200100	EARTH EXCAVATION	CU YD	775	775						67100100	MOBILIZATION	L SUM	1	1					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100						70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1					
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	100	100						70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	13074	13074					
*21101815	COMPOST FURNISH AND PLACE, 4"	SO YD	2420	2420						70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	41	41					
*25000310	SEEDING, CLASS 4	ACRE	0.5	0.5						70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	4377	4377					
*25000322	SEEDING, CLASS 5A	ACRE	0.5	0.5						*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8116	8116					
*25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45						*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	226	226					
*25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45						*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	80	80					
*25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45						*78200410	GUARDRAIL MARKERS, TYPE A	EACH	7	7					
*25100630	EROSION CONTROL BLANKET	SO YD	2420	2420						*78200530	BARRIER WALL MARKERS, TYPE C	EACH	19	19					
*25200200	SUPPLEMENTAL WATERING	UNIT	25	25						*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	200						*B2000564	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	11	11					
28000305	TEMPORARY DITCH CHECKS	FOOT	88	88						*B2001164	TREE, CERCIS CANADENSIS (EASTERN REDBUD) 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	16	16					
28000400	PERIMETER EROSION BARRIER	FOOT	2555	2555						*K1005465	SELECTIVE MOWING STAKES	EACH	4	4					
28100107	STONE RIPRAP, CLASS A4	SO YD	65	65						*K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	1	1					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	13	13						X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
40600895	CONSTRUCTING TEST STRIP	EACH	2	2						30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	2869	2869					
40701881	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"	SO YD	2858	2858						Z0004552	APPROACH SLAB REMOVAL	SO YD	185	185					
42001300	PROTECTIVE COAT	SO YD	168	168						Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
44000100	PAVEMENT REMOVAL	SO YD	2845	2845						Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52	52					
44004250	PAVED SHOULDER REMOVAL	SO YD	1216	1216						Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1035	1035					
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SO YD	1830	1830						*Z0064800	SELECTIVE CLEARING	UNIT	82	82					
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1															
51500100	NAME PLATES	EACH	1	1															
54011001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2															
54011210	PRECAST CONCRETE BOX CULVERT 12' x 10'	FOOT	155	155															
*63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	850	850															
*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2															
63200310	GUARDRAIL REMOVAL	FOOT	705	705															
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1682	1682															

* SPECIALTY ITEMS
* NON-PARTICIPATING ITEMS

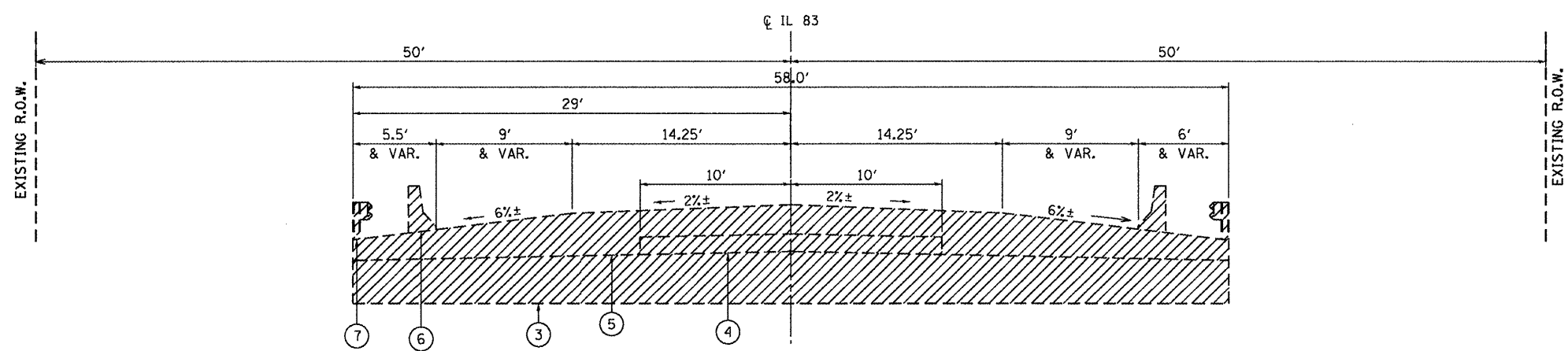
* SPECIALTY ITEMS
* NON-PARTICIPATING ITEMS



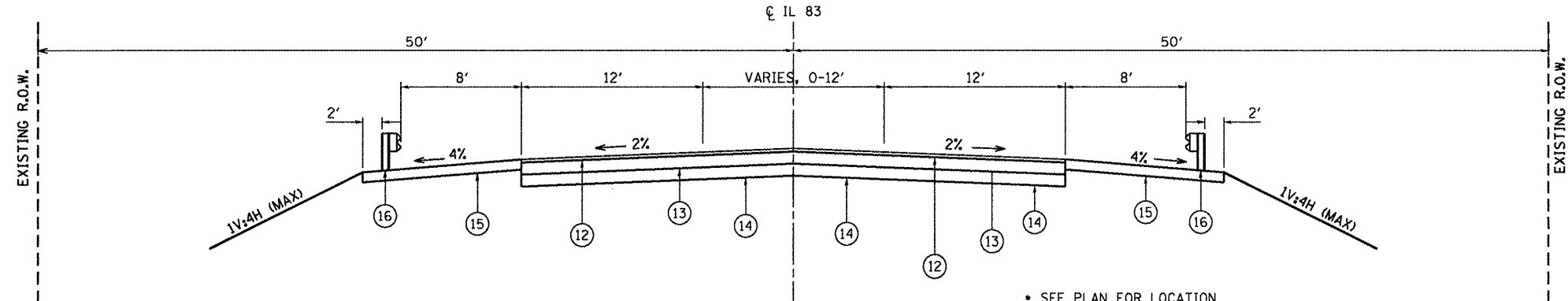
EXISTING TYPICAL SECTION
STA. 21+00 TO STA. 24+40



EXISTING TYPICAL SECTION
STA. 24+40 TO STA. 25+92
STA. 26+22 TO STA. 29+00



EXISTING TYPICAL SECTION
STA. 25+92 TO STA. 26+22



PROPOSED TYPICAL SECTION
STA. 21+00 TO STA. 29+00

- LEGEND**
- ① EXISTING AGGREGATE SHOULDER
 - ② EXISTING PCC PAVEMENT, 10-1/4"
 - ③ EXISTING CONCRETE SLAB (VAR. 17" TO 20.5")
 - ④ EXISTING CONC. CRUSH OVERLAY, 7"
 - ⑤ EXISTING HMA SURFACE COURSE (VAR. 8" TO 12.5")
 - ⑥ EXISTING CONC. BARRIER
 - ⑦ EXISTING GUARDRAIL
 - ⑧ EXISTING HMA SURFACE COURSE, 1.5"
 - ⑨ EXISTING HMA BINDER COURSE, 1.5"
 - ⑩ EXISTING HMA BASE & SUB-BASE, 3"
 - ⑪ EXISTING HMA SHOULDER (VAR. 3" TO 6")
 - ⑫ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
 - ⑬ PROPOSED HMA BINDER COURSE, IL-19, N70, 8" (IN 2 LIFTS)
 - ⑭ PROPOSED AGGREGATE SUBGRADE, 12"
 - ⑮ PROPOSED HMA SHOULDER, 10" (IN 2 LIFTS)
 - ⑯ PROPOSED STEEL PLATE BEAM GUARDRAIL

NOTE:
(PROPOSED PAVEMENT RECONSTRUCTION)
PROP. HMA SURF. CSE, MIX "D", N70, 2" & PROP. HMA BIND. CSE, IL-19, N70, 8" SHALL BE PAID AS HMA PAVEMENT (FULL DEPTH), 10" IN SQUARE YARDS.

FILE NAME = D162339-shv-typ10el.dgn	USER NAME = j.miller	DESIGNED - SF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = Full Size 1=1	DRAWN - JM	REVISED -				344	102Y-A-B	COOK	31	4
	PLOT DATE = 7/12/2011 10:43:31 AM	CHECKED -	REVISED -				CONTRACT NO. 62339				
	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
				SCALE: NONE	SHEET NO. 4 OF 27 SHEETS	STA. 21+00 TO STA. 29+00					

EARTHWORK SCHEDULE (MCHENRY COUNTY)
FLEMING ROAD

① LOCATION	② EARTH EXCAVATION	③ EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	④ EMBANKMENT	⑤ EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA. 21+00 TO STA. 21+50	71.30	60.60	9.26	+51.34
STA. 21+50 TO STA. 22+00	74.07	62.96	9.26	+53.70
STA. 22+00 TO STA. 22+50	85.18	77.40	9.26	+68.14
STA. 22+50 TO STA. 23+00	68.52	58.24	9.26	+48.98
STA. 23+00 TO STA. 23+50	59.26	50.37	14.82	+35.55
STA. 23+50 TO STA. 24+00	52.78	44.86	26.85	+18.01
STA. 24+00 TO STA. 24+50	41.67	35.42	39.82	-4.40
STA. 24+50 TO STA. 25+00	33.80	28.73	60.19	-31.46
STA. 25+00 TO STA. 25+50	26.85	22.85	75.93	-53.08
STA. 25+50 TO STA. 26+00	19.44	16.52	42.13	-25.61
STA. 26+00 TO STA. 26+50	25.93	22.04	21.76	+0.28
STA. 26+50 TO STA. 27+00	21.76	18.50	21.76	-3.26
STA. 27+00 TO STA. 27+50	37.04	31.48	6.02	+25.46
STA. 27+50 TO STA. 28+00	41.67	35.42	4.63	+30.79
STA. 28+00 TO STA. 28+50	50.46	42.89	7.87	+35.02
STA. 28+50 TO STA. 29+00	64.35	54.70	10.18	+44.52
TOTAL	774.08	662.98	369	+293.98

COLUMN 1: LOCATION FROM PLAN
 COLUMN 2: QUANTITY OF EARTH EXCAVATION (CUT) FROM CROSS SECTIONS
 COLUMN 3: QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%
 COLUMN 4: QUANTITY OF EMBANKMENT (FILL) FROM CROSS SECTIONS
 COLUMN 5: (COLUMN 3 - COLUMN 4)
 (+) = QUANTITY OF FURNISHED EXCAVATION NEEDED
 (-) = QUANTITY TO BE WASTED

TREE REMOVAL QUANTITIES

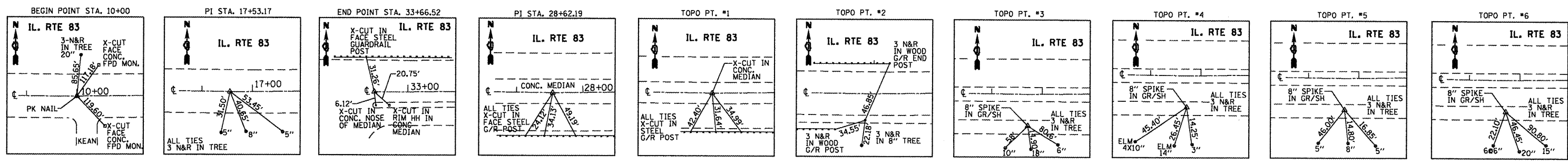
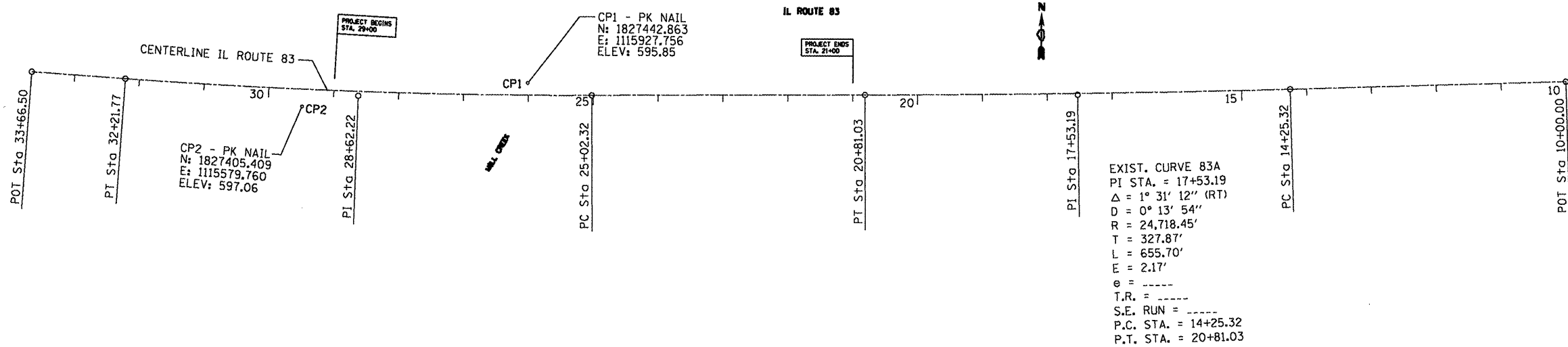
20+53	38 (RT)	1010"	-	10
20+84	38 (RT)	1010"	-	10
21+87	28 (RT)	108"	GREEN ASH	8
21+87	28 (RT)	106"	GREEN ASH	6
22+17	26 (RT)	107"	GREEN ASH	7
24+16	34 (RT)	1012"	HACKBERRY	12
24+80	37 (RT)	1014"	CRABAPPLE	14
24+90	37 (RT)	107"	CRABAPPLE	15
		108"	CRABAPPLE	
25+25	31 (RT)	106"	AMERICAN ELM	6
25+40	38 (RT)	107"	GREEN ASH	7
25+48	62 (RT)	109"	-	9
25+64	35 (RT)	1012"	GREEN ASH	12
25+65	40 (RT)	1014"	-	14
25+66	45 (RT)	109"	CRABAPPLE	9
25+71	35 (RT)	106"	-	6
25+75	34 (RT)	1026"	GREEN ASH	26
25+76	79 (RT)	1015"	-	15
25+76	90 (RT)	1020"	-	20
25+78	74 (RT)	1015"	-	15
25+79	57 (RT)	107"	-	7
25+85	33 (RT)	1013"	GREEN ASH	13
26+04	52 (RT)	1020"	-	20
26+15	42 (RT)	108"	GREEN ASH	21
		1013"	GREEN ASH	
26+18	61 (RT)	1012"	-	12
26+25	42 (RT)	1018"	STUMP	18
26+34	59 (RT)	1012"	-	12
26+39	70 (RT)	1012"	-	12
26+46	54 (RT)	1012"	-	12
27+55	49 (RT)	108"	GREEN ASH	20
		1012"	GREEN ASH	
28+00	46 (RT)	106"	GREEN ASH	16
		1010"	GREEN ASH	
28+13	39 (RT)	1012"	-	12
28+69	47 (RT)	1012"	-	12
22+60	34 (LT)	106"	-	21
		107"	-	
		108"	-	
25+20	32 (LT)	107"	GREEN ASH	7
25+70	41 (LT)	1012"	-	12
25+90	56 (LT)	1020"	-	20
25+94	66 (LT)	109"	-	9
26+00	33 (LT)	206"	CRABAPPLE	19
		107"	CRABAPPLE	
26+00	47 (LT)	1016"	CRABAPPLE	36
		1020"	CRABAPPLE	
26+00	59 (LT)	109"	-	9
26+64	65 (LT)	106"	-	6
26+80	52 (LT)	106"	-	6
TREE REMOVAL (6 TO 15 UNIT DIAMETER)				413
TREE REMOVAL (OVER 15 UNITS DIAMETER)				140

HOT-MIX ASPHALT MIXTURE REQUIREMENTS
 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE USE	THICKNESS	AIR VOIDS (%) @ NDES
IL 83: PAVEMENT RECONSTRUCTION & WIDENING		
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"		
HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70 (IL 9.5 mm)	2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-19.0, N70)	8"	4% @ 70 Gyr.
SHOULDER: (HOT-MIX ASPHALT SHOULDER, 10")		
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm)	10"	4% @ 50 Gyr.

NOTE:
 THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 POUNDS PER SQUARE YARD-INCH
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 FOR "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

EXIST. CURVE 83B
 PI STA. = 28+62.22
 $\Delta = 4^\circ 19' 16''$ (RT)
 $D = 0^\circ 36' 02''$
 $R = 9,539.37'$
 $T = 359.90'$
 $L = 719.46'$
 $E = 6.79'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 25+02.32
 P.T. STA. = 32+21.77



ALIGNMENT COORDINATES - IL 83

	STATION	N	E
POT	10+00.00	1827451.4274	1117528.3374
PC	14+25.32	1827438.0386	1117103.2245
PI	17+53.19	1827427.7175	1116775.5170
PT	20+81.03	1827426.0921	1116447.6510
PC	25+02.32	1827424.0035	1116026.3653
PI	28+62.22	1827422.2193	1115666.4697
PT	32+21.77	1827447.5577	1115307.4628
POT	33+66.50	1827457.7468	1115163.0992

CONTROL POINT #1

PK NAIL
 STA. 26+01.03
 N=1827442.863
 E=1115927.756
 ELEV.=595.85

CONTROL POINT #2

PK NAIL
 STA. 29+47.92
 N=1827405.409
 E=1115579.760
 ELEV. = 597.06

BENCHMARK #103

ELEV. 189.070
 □ -CUT IN OF HW N.E. COR
 BIKE/HORSE TRAIL & KEAN AVE.
 ±5 M. NORTH OF ENT.
 TO ELEV. 189.085

BENCHMARK #2

ELEV. 612.14
 STATE OF ILL. BENCHMARK
 DISK IN SW WINGWALL OF
 IL. 83 BRIDGE OVER US 45

BENCHMARK #3

ELEV. 604.23
 □ -CUT CENTER
 CONC. MEDIAN
 @ STA. 32+00

BENCHMARK #4

ELEV. 596.28
 □ -CUT SE END
 CONC. BRIDGE,
 IL. 83 BRIDGE
 OVER MILL CREEK

BENCHMARK #5

ELEV. 595.83
 □ -CUT WEST E/P
 IL. 83 @ STA. 21+00

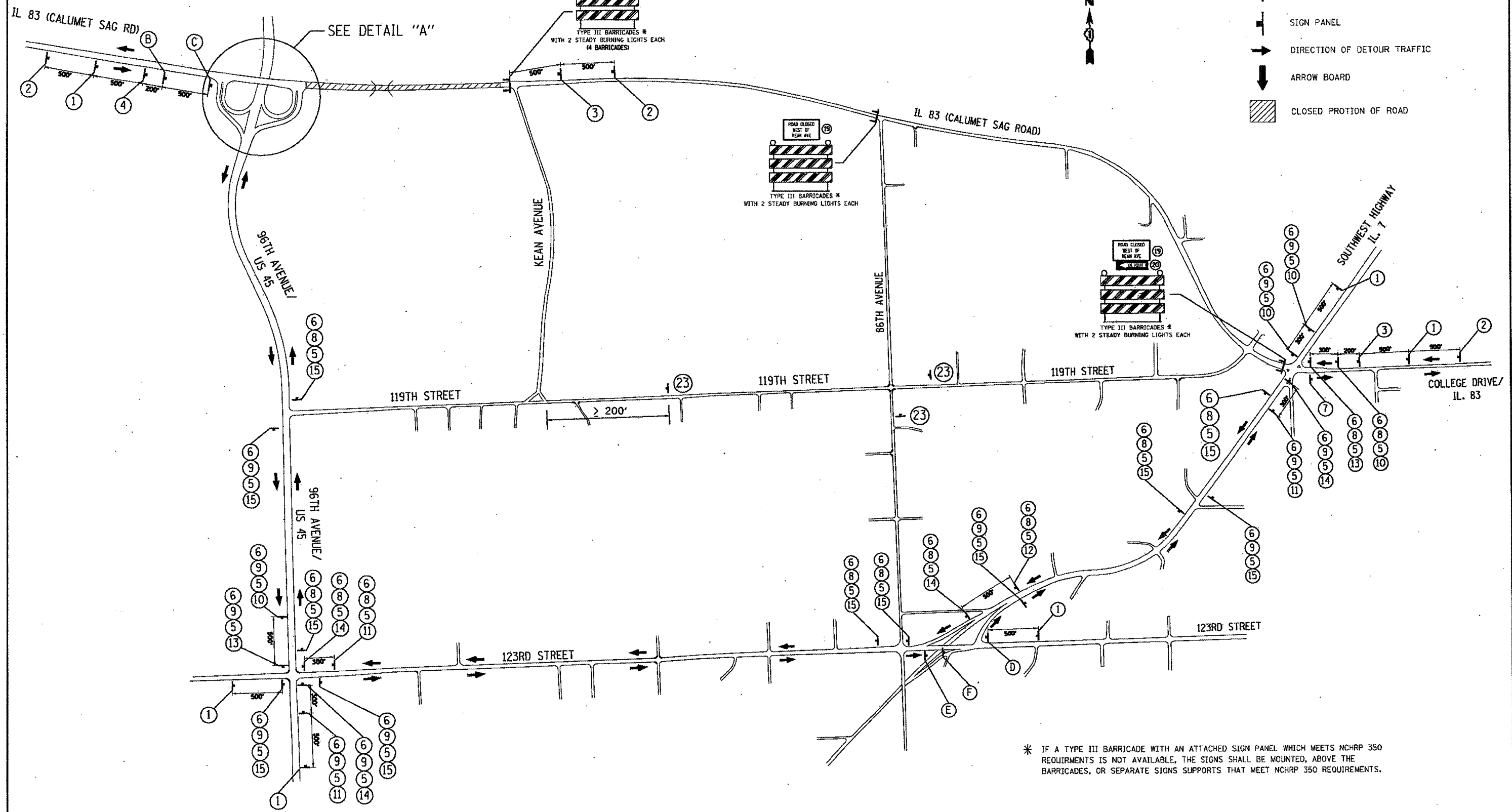
BENCHMARK #6

ELEV. 595.51
 □ -CUT WEST E/P
 IL. 83 @ STA. 15+00

FILE NAME =	USER NAME = gelbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 83 OVER MILL CREEK ALIGNMENT, TIES AND BENCHMARKS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw\work\p101dot\gelbanjr\d8201547\PI101	98-sh-t-ATB.dgn	DRAWN -	REVISED -			344	102Y-A-B	COOK	31	6	
	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62339					
	PLOT DATE = 2/23/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

LEGEND

- BARREL WITH STEADY BURNING LIGHT
- ⊥ TYPE III BARRICADE WITH 2 STEADY BURNING LIGHTS EACH
- SIGN PANEL
- DIRECTION OF DETOUR TRAFFIC
- ↓ ARROW BOARD
- ▨ CLOSED PORTION OF ROAD

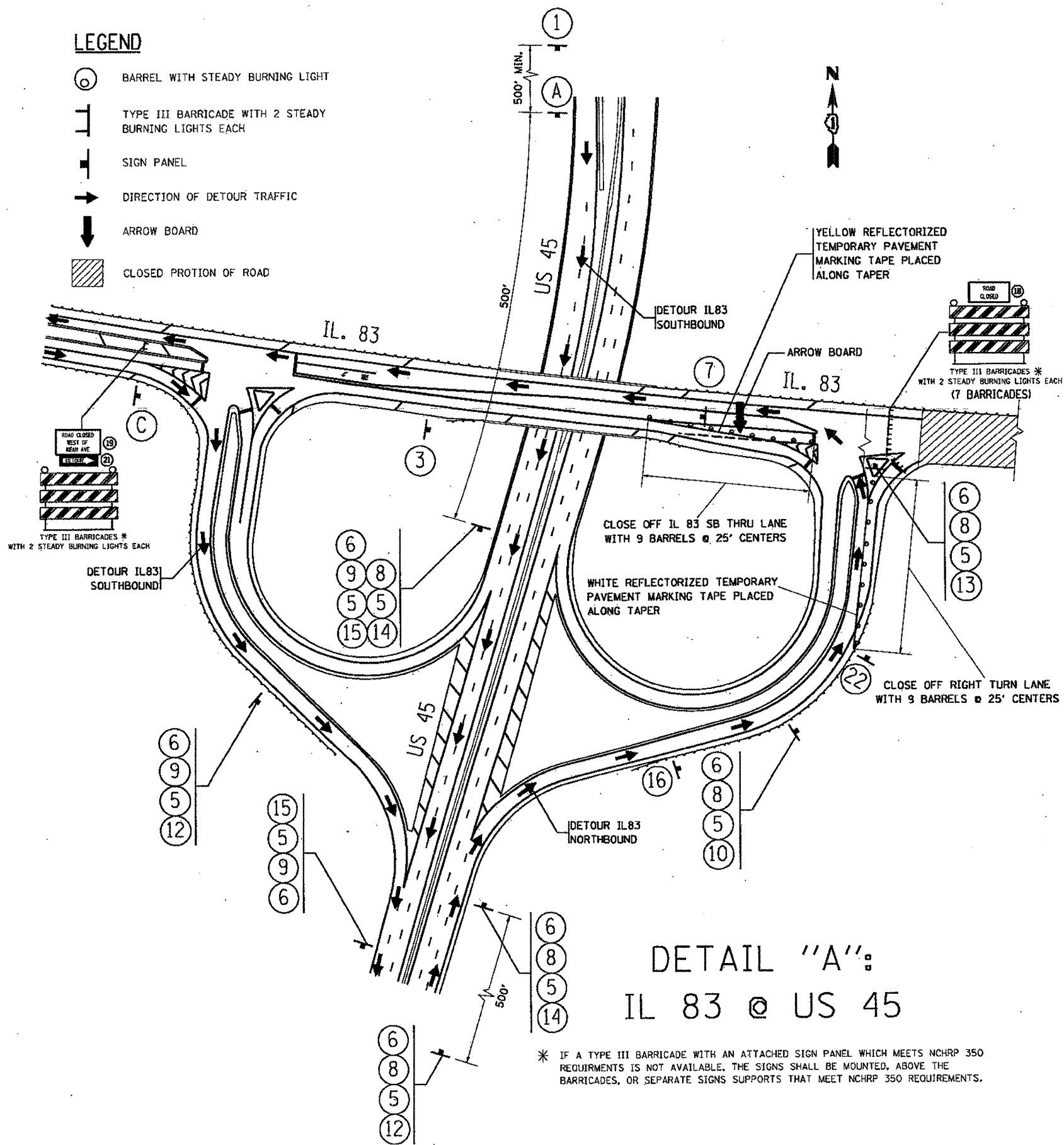


* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, OR SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = galbarjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 83 OVER MILL CREEK TRAFFIC DETOUR PLAN		F.A.P. RTE. 344	SECTION 102Y-A-B	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 8	
c:\pwwork\pwwork\galbarjr\d0201926\PI8798-shr-plan.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 62339				
PLOT SCALE = 100.0000' / 1" =		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 3/22/2012		DATE -	REVISED -									

LEGEND

- ⊙ BARREL WITH STEADY BURNING LIGHT
- ⊥ TYPE III BARRICADE WITH 2 STEADY BURNING LIGHTS EACH
- SIGN PANEL
- DIRECTION OF DETOUR TRAFFIC
- ↓ ARROW BOARD
- ▨ CLOSED PORTION OF ROAD



**DETAIL "A":
IL 83 @ US 45**

* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, OR SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

DETOUR SIGN LEGEND

- | | | | | | |
|----|--|----|--|----|------|
| 1 | | 12 | | 6 |
 |
| 2 | | 13 | | 15 | |
| 3 | | 14 | | 15 |
 |
| 4 | | 15 | | 16 | |
| 5 | | 16 | | 17 |
 |
| 6 | | 17 | | 18 | |
| 7 | | 18 | | 19 |
 |
| 8 | | 19 | | 20 | |
| 9 | | 20 | | 21 |
 |
| 10 | | 21 | | 22 | |
| 11 | | 22 | | 23 | |
| | | | | | |

FILE NAME =	USER NAME = galberjr	DESIGNED -	REVISED -
c:\pwork\pwork\galberjr\102201526\10798-shr-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 3/22/2012		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

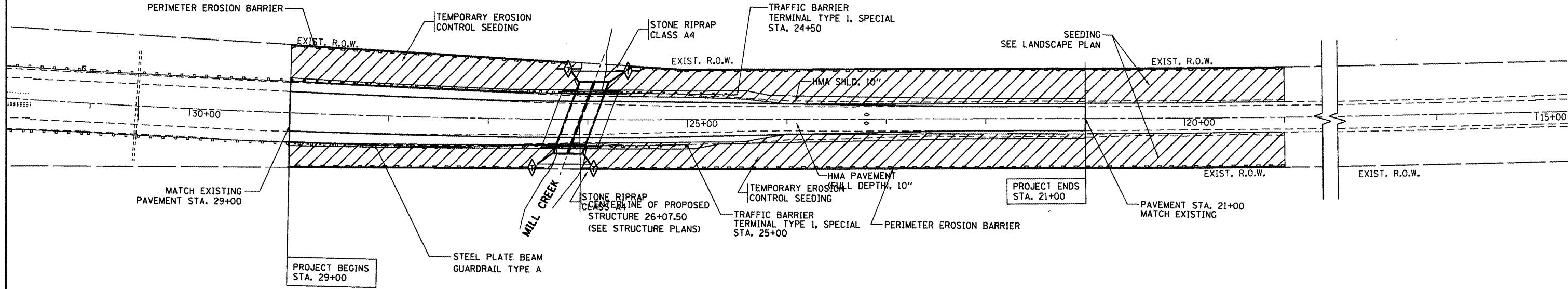
**ILLINOIS ROUTE 83 OVER MILL CREEK
TRAFFIC DETOUR PLAN**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

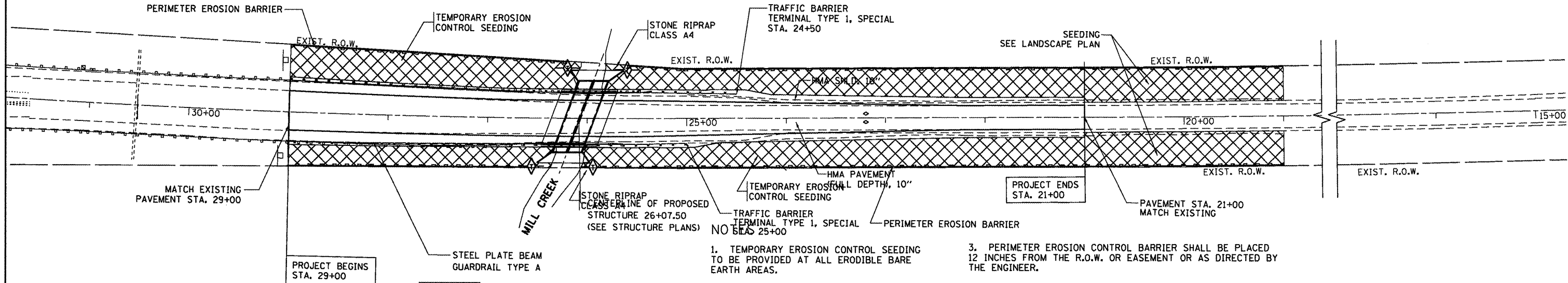
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	9
CONTRACT NO. 62339				
ILLINOIS FED. AID PROJECT				



IL ROUTE 83



IL ROUTE 83



- TEMPORARY DITCH CHECK
- SELECTIVE MOWING STAKE
- PERIMETER EROSION BARRIER

- TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET
- PERMANENT SEEDING SEEDING CLASS 4 SEEDING CLASS 5A COMPOST FURNISHED AND PLACE, 4" EROSION CONTROL BLANKET

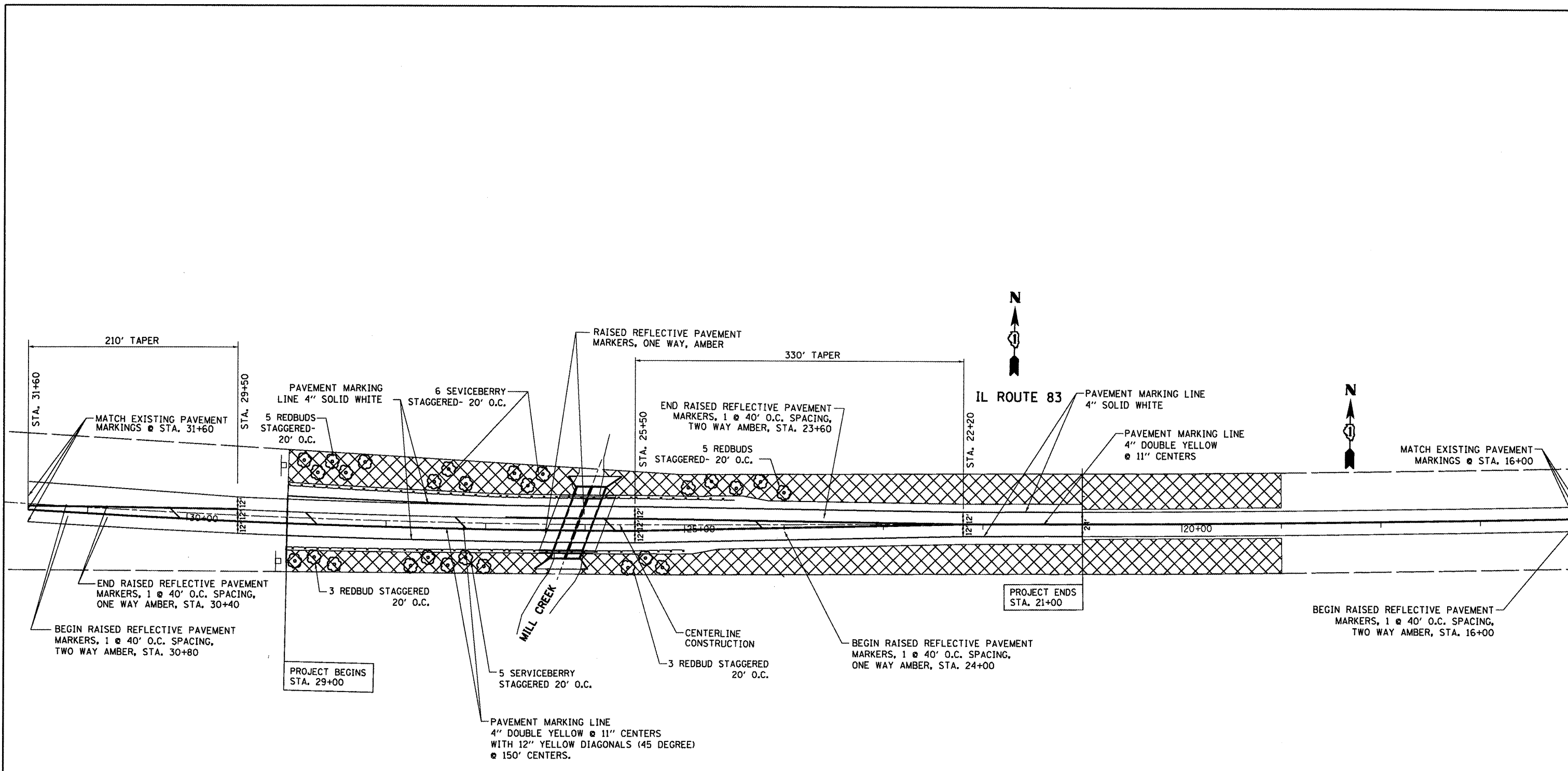
1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
3. PERIMETER EROSION CONTROL BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT OR AS DIRECTED BY THE ENGINEER.
4. AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
5. SELECTIVE CLEARING TO REMOVE UNSIGHTLY, INVASIVE SCRUB GROWTH WITHIN EASEMENT WILL BE REQUIRED FOR THIS PROJECT. THE PAY ITEM SELECTIVE CLEARING HAS BEEN INCLUDED IN THE SUMMARY OF QUANTITIES.


FILE NAME =	USER NAME = galbenjr	DESIGNED -	REVISED -
ca:\pwork\pwidot\galbenjr\d0201547\p18798-shr-eros.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 53 OVER MILL CREEK
EROSION AND SEDIMENT CONTROL PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	10
CONTRACT NO. 62339				
ILLINOIS FED. AID PROJECT				



 PERMANENT SEEDING
 SEEDING, CLASS 4
 SEEDING, CLASS 5A
 COMPOST FURNISHED AND PLACE, 4"
 EROSION CONTROL BLANKET

 SELECTIVE MOWING STAKE

NOTES

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE FROM THE EDGE OF PAVEMENT TO THE CENTER OF SINGLE LINE OR THE CENTER OF THE GAP FOR A DOUBLE LINE, UNLESS OTHERWISE NOTED.
3. CONTACT MS. PATRICE HARRIS, (708) 597-9800, TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
4. THE ACTUAL LOCATION OF PROPOSED TREE PLANTING SHALL BE ADJUSTED IN THE FIELD TO AVOID EXISTING TREES AND UTILITIES.
5. CONTACT STEVE LIPKIE IN THE BUREAU OF MAINTENANCE AT (847) 705-4171, 72 HOURS PRIOR TO PLANTING.

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -
es:\pv_work\pwsdot\galbanjr\10201547\PI0798-sht-pmk.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 2/23/2012		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

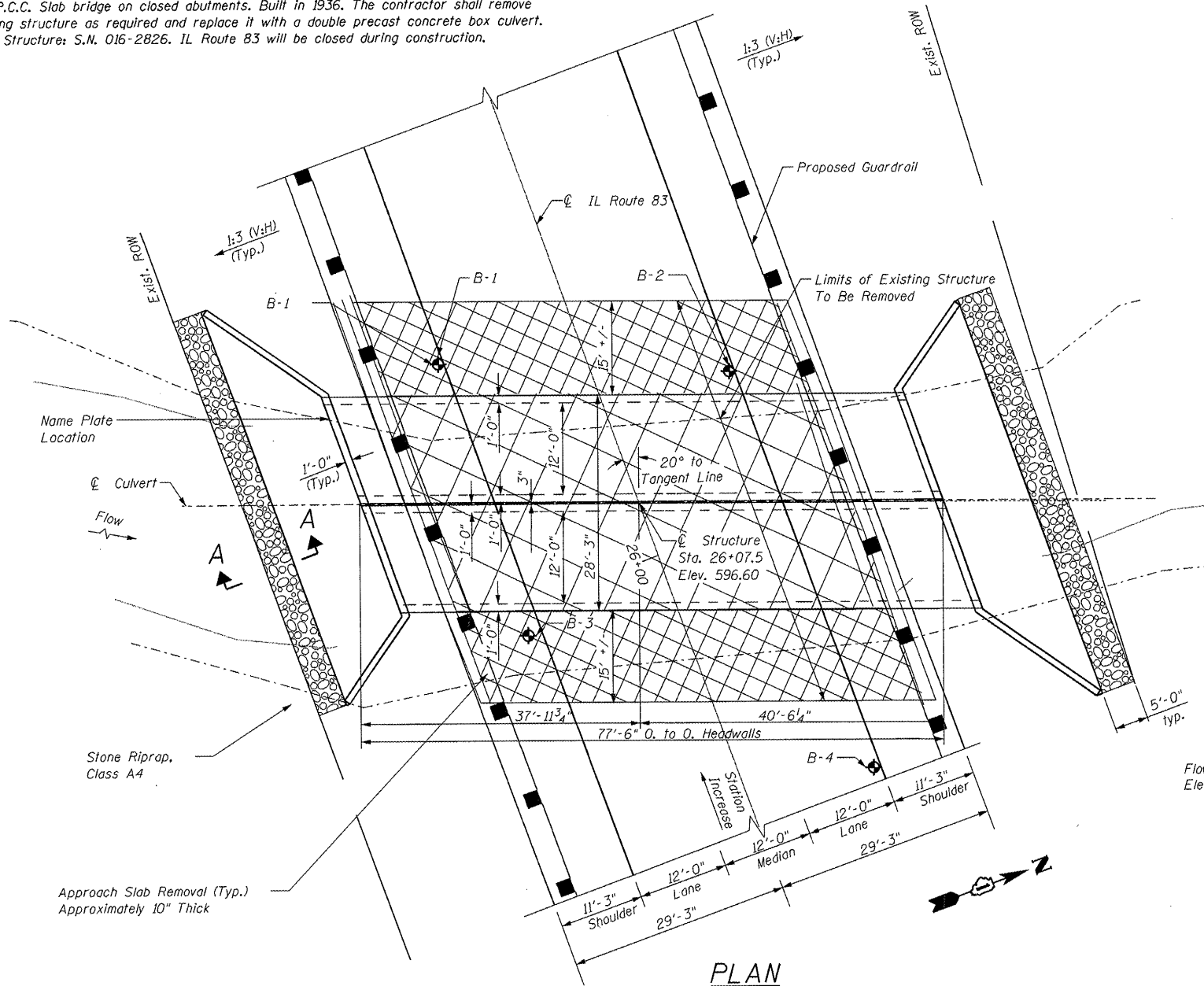
ILLINOIS ROUTE 53 OVER MILL CREEK
PAVEMENT MARKING AND LANDSCAPING PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	11
CONTRACT NO. 62339				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

Bench Mark: BM # 4 Chiseled square on Southeast end of Concrete Bridge, Elev. 596.28
 Existing Structure, S.N. 016 - 0430, single span, 29'-7" back to back of abutments, 58'-0" out to out. P.C.C. Slab bridge on closed abutments. Built in 1936. The contractor shall remove the existing structure as required and replace it with a double precast concrete box culvert.
 Proposed Structure: S.N. 016-2826. IL Route 83 will be closed during construction.

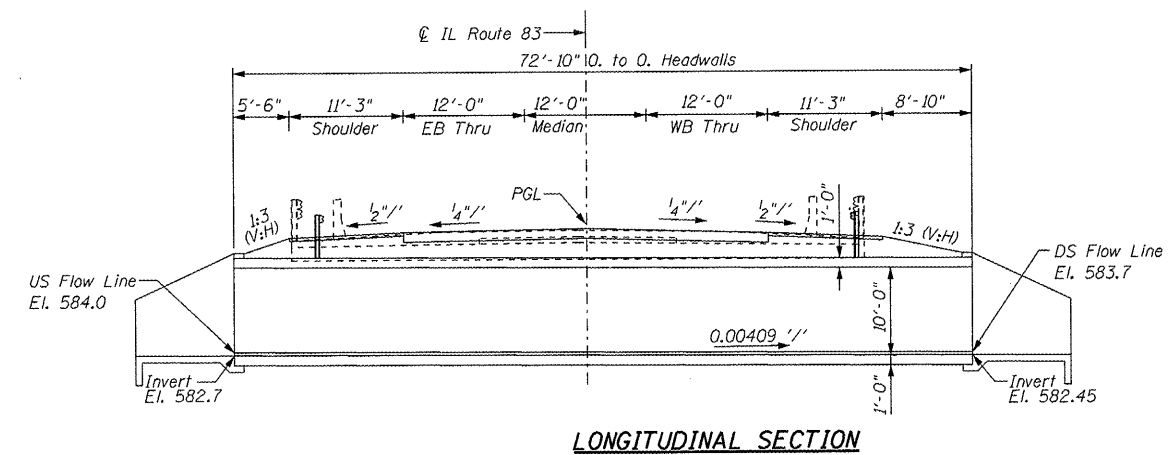
No salvage



PLAN

CURVE DATA

$\Delta = 4^\circ 19' 16''$ (RT)
 $D = 0^\circ 36' 02''$
 $T = 359.90'$
 $L = 719.46'$
 $E = 6.79'$
 $R = 9,539.37'$
 $P.C. = Sta. 25+02.32$
 $P.T. = Sta. 32+21.77$
 $P.I. = Sta. 28+62.22$



LONGITUDINAL SECTION

GENERAL NOTES:

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

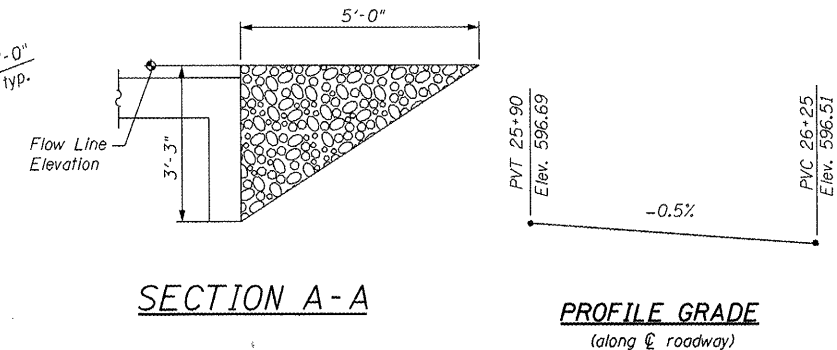
BOX CULVERT END SECTIONS, Culvert No. 1 shall be paid for as noted in Article 540.08, and The Contract Unit Price for BOX CULVERT END SECTIONS, Culvert No. 1 shall include all porous granular bedding material, cast in place wingwalls, headwalls, and aprons, cast in place portions between cells, reinforcement, excavation, backfill, and preformed joint filler.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Dumped Riprap, Class A4	Sq. Yd.	65
Removal of Existing Structures	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Box Culvert 12" X 10"	Foot	155
Approach Slab Removal	Sq. Yd.	185
Porous Granular Embankment, Subgrade	Cu. Yd.	1,035

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. INVERT	U.S. INVERT
	579.45	579.70



SECTION A-A

PROFILE GRADE (along centerline of roadway)

WATERWAY INFORMATION

Drainage Area = 11.1 Sq. Mi Low Grade Elev. 596.11 @ Sta. 21+50

Flood Yr.	Freq.	C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
10	684	94	137	588.6	1.1	1.1	589.7	589.7	
Design	50	1470	168	211	591.8	2.3	1.0	594.1	592.8
Base	100	1870	201	216	593.6	1.9	1.5	595.5	595.1
Overtopping	250	2130	201	216	594.0	2.0	2.0	596.0	596.0
Max. Calc.	500	2555	201	216	594.7	2.2	2.4	596.9	597.1

HIGHWAY CLASSIFICATION

F.A.P. Rte. 344 - IL. Rte 83
 ADT: 11,200 (2001); 13,500 (2020)
 ADTT: 923 (2021)
 Functional class: Other Principal Arterial (Rural)
 Design Speed: 55 mph

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications

LOADING HS-20-44

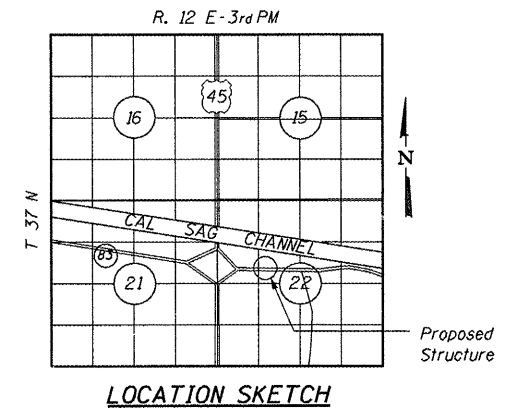
Allow 50#/Sq.ft. for Future Wearing Surface

DESIGN STRESSES

Field Units
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 Precast Units
 $f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)
 Maximum Soil Pressure under culvert = 1950 psf

STATION 26+08
 BUILT 2012 BY
 STATE OF ILLINOIS
 F.A.P. RT. 344 SEC. 102Y-A-B
 F.A. PROJ.
 LOADING HL93
 STR. NO. 016-2826

NAME PLATE
 See Std. 515001



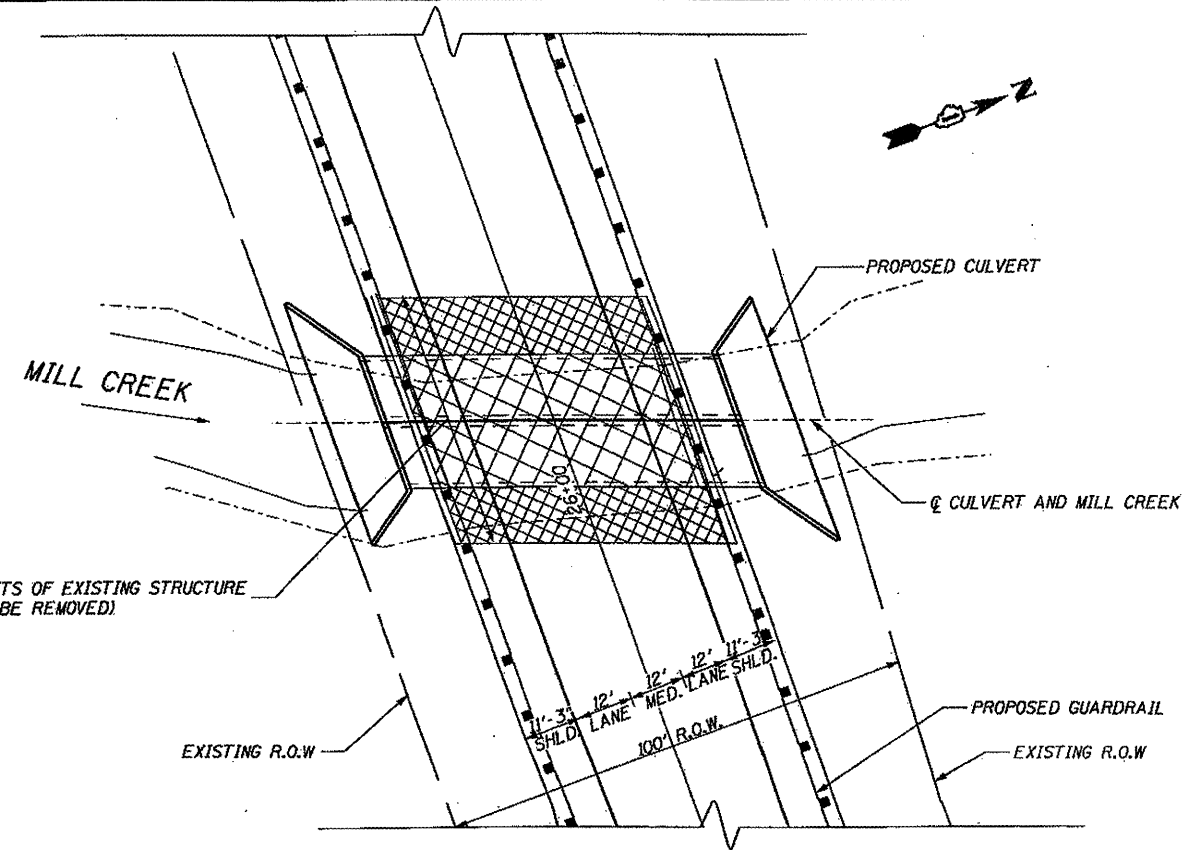
LOCATION SKETCH

To the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

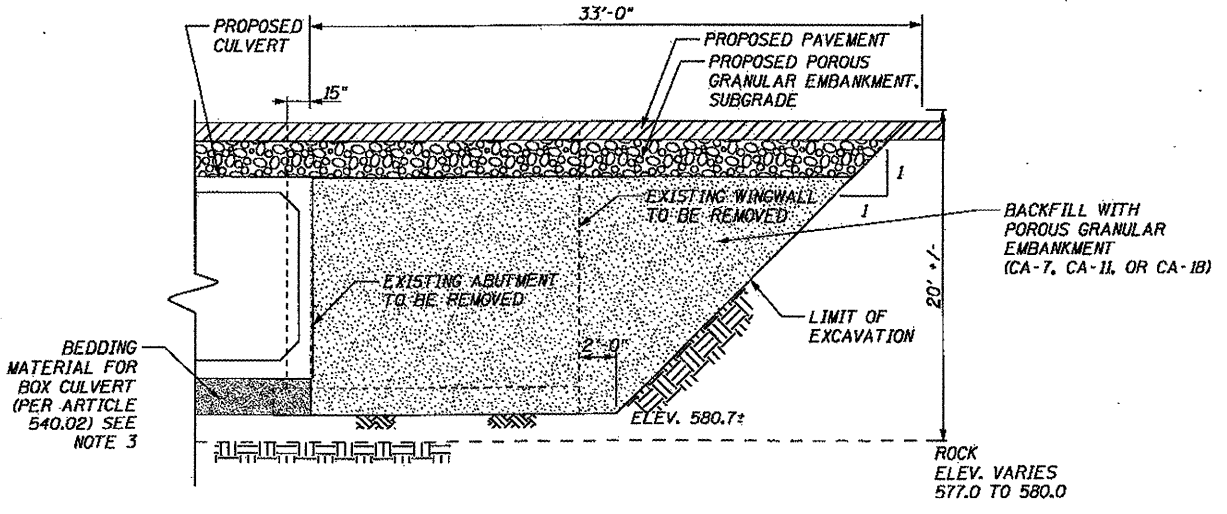
Mark J. Das
 Structural Engineer Expires 11/30/2012
 HR Green, Inc.



GENERAL PLAN AND ELEVATION
 IL ROUTE 83 OVER MILL CREEK
 F.A.P. ROUTE 344 - SECTION 102Y-A-B
 COOK COUNTY
 STATION 26+07.50
 EXISTING STRUCTURE NO. 016-0430
 PROPOSED STRUCTURE NO. 016-2826



PLAN

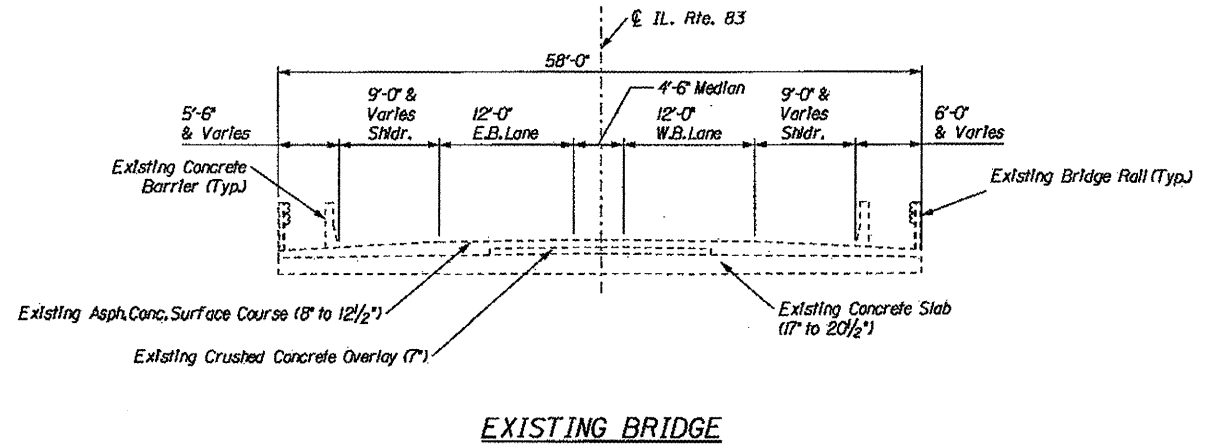


ELEVATION OF TEMPORARY SOIL RETENTION SYSTEM

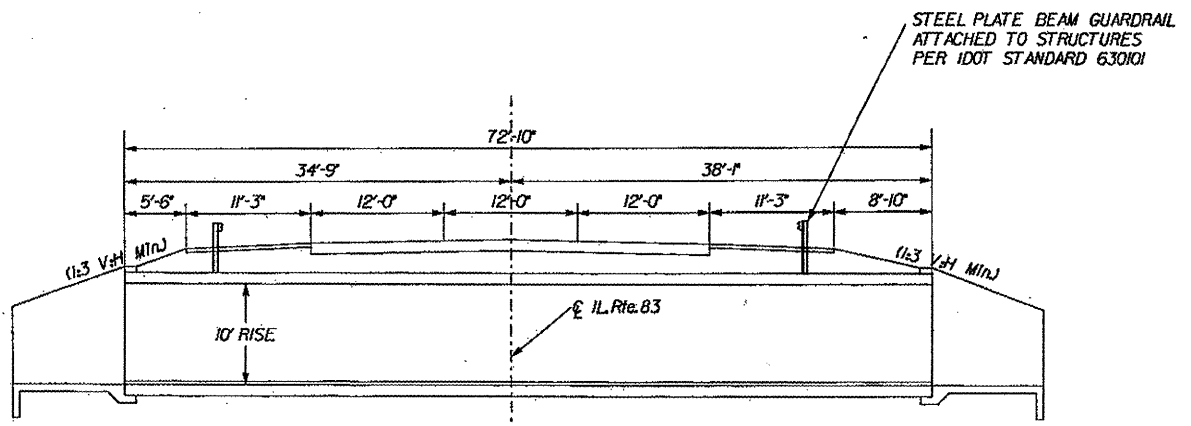
- NOTES:**
1. POROUS GRANULAR EMBANKMENT FOR BACKFILL SHALL BE INCLUDED IN THE COST OF PRECAST BOX CULVERT 12' X 10'.
 2. SECTION DIMENSIONS ARE PROVIDED PERPENDICULAR TO ROADWAY CENTERLINE.
 3. CHANNEL EXCAVATION AND EXCAVATION FOR THE CAST-IN-PLACE END SECTIONS SHALL BE INCLUDED IN THE COST OF PRECAST BOX CULVERT 12' X 10'. BEDDING MATERIAL FOR THE PRECAST BOX CULVERT SHALL BE EXTENDED TO THE LOWER LIMITS OF THE EXCAVATION.

BILL OF MATERIAL

DESCRIPTION	UNIT	QTY.
POROUS GRANULAR EMBANKMENT, SUBGRADE	CU. YD.	1.035



EXISTING BRIDGE



PROPOSED CULVERT

COMPANY NAME: HRGREEN
 PROJECT CONTACT: Chris Hatcher, P.E.
 CLIENT: IDOT
 DATE PLOTTED: 2/24/2012 11:36:24 AM
 FILE NAME: 65001822-6237-CD.dgn
 PLOT SCALE: 1/8\"/>

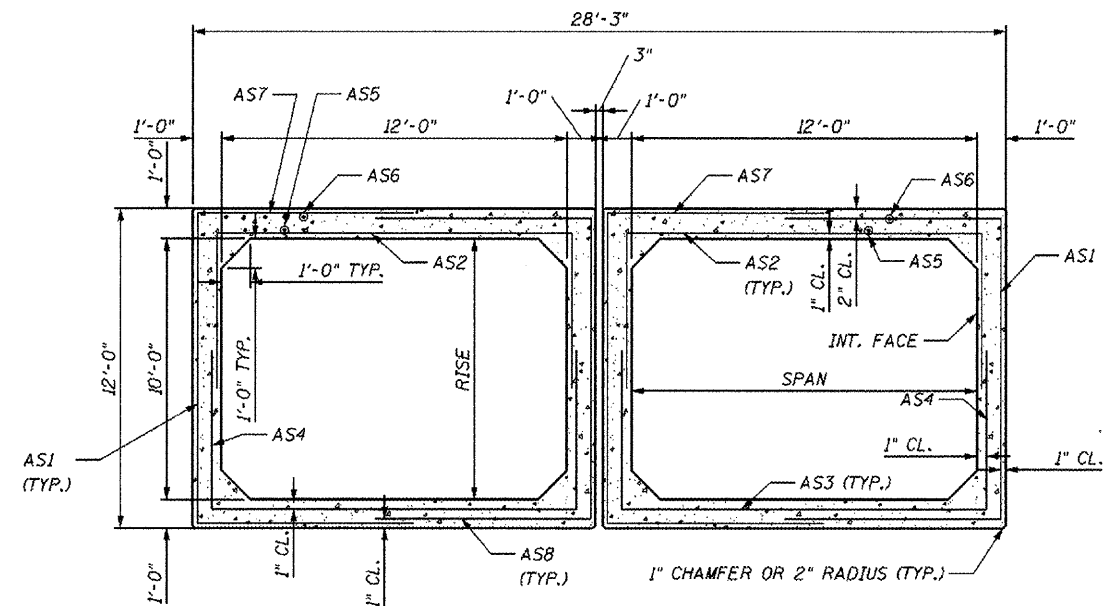
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	PLOT DATE =	CHECKED - RGD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STRUCTURE NO. 016-2826
 SHEET NO. 2 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	13
CONTRACT NO. 62339				

ILLINOIS FED. AID PROJECT



CROSS SECTION

PRECAST CONCRETE BOX CULVERT FILL < 2.0 FT., ASTM C 1577

GENERAL NOTES

PRECAST CONCRETE BOX CULVERT SECTION SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 540.06 OF THE STANDARD SPECIFICATION AND THE APPLICABLE REQUIREMENTS OF ASTM C 1577.

THE MINIMUM CONCRETE STRENGTH SHALL BE 5,000 PSI.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31, M 42, OR M 53 GRADE 60.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER BOX SECTIONS ARE IN PLACE.

CONTRACTOR/PRECAST MANUFACTURER TO PROVIDE ALL DETAILS FOR SKEWED BOXES AND/OR MITERED ENDS AS REQUIRED. DETAILS AND PLANS SHALL BE SUBMITTED FOR APPROVAL AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.

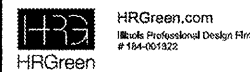
FILL < 2.0 FT.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
PRECAST CONCRETE BOX CULVERT 12 X 10	FT.	155

CONTRACT 62339 COUNTY COOK
 ROUTE FAP RT. 344 SECTION 102Y-A-B
 SPAN 12' X RISE 10' : STATION 26+07.50

COMPANY NAME: HRGreen
 PROJECT CONTACT: Chris Topper, Inc.
 CLIENT: DOT
 DATE PLOTTED: 2/8/2012 10:16:41 AM
 FILE NAME: 88001962-6237-Culc.dgn
 PLOT NUMBER: 1
 PEN TABLE: 57 Post 22x34.tbl



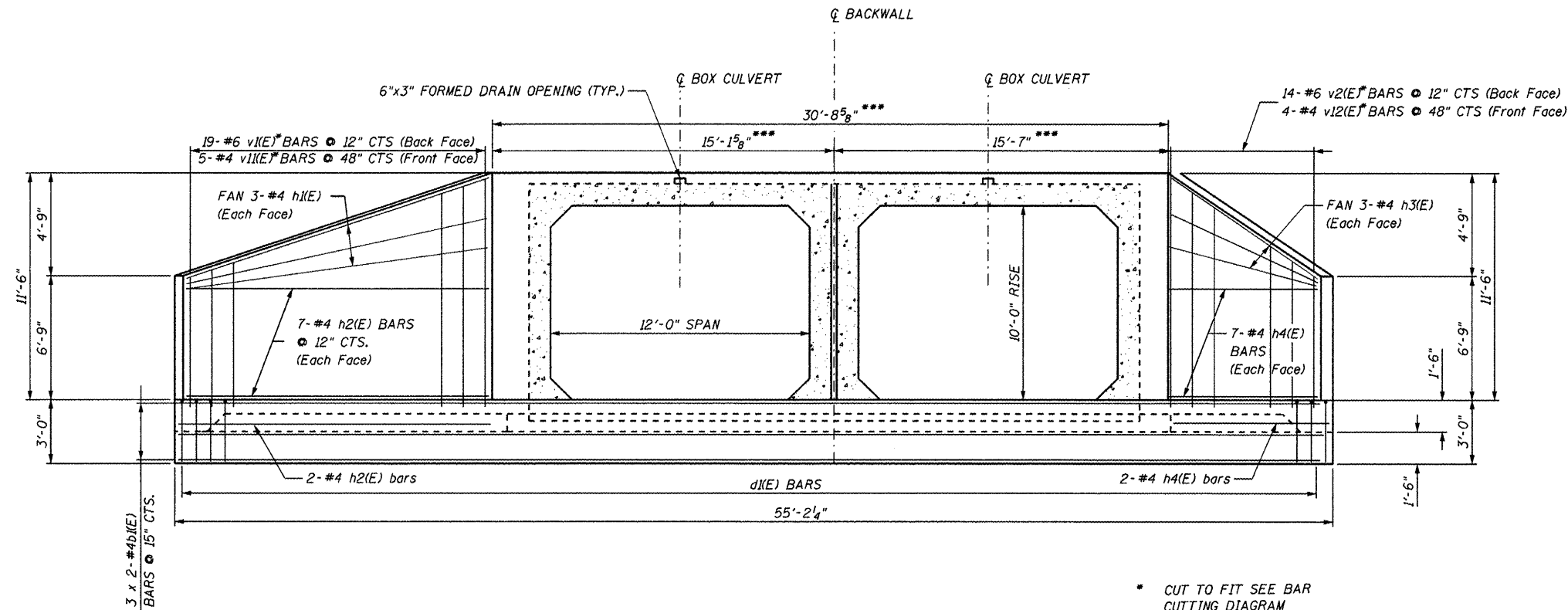
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	CHECKED - JPG	REVISED
PLOT SCALE =	DRAWN - JPG	REVISED
PLOT DATE =	CHECKED - RGD	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PRECAST CULVERT DETAILS
 STRUCTURE NO. 016-2826

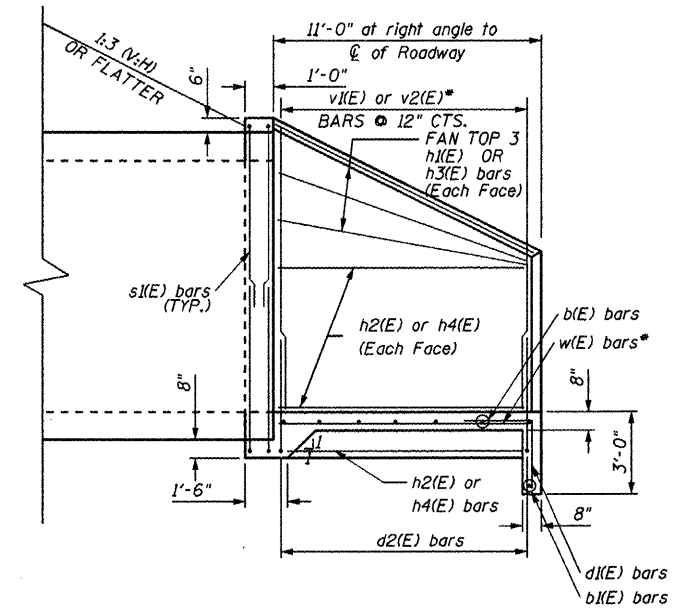
SHEET NO. 3 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	14
CONTRACT NO. 62339				
ILLINOIS FED. AID PROJECT				

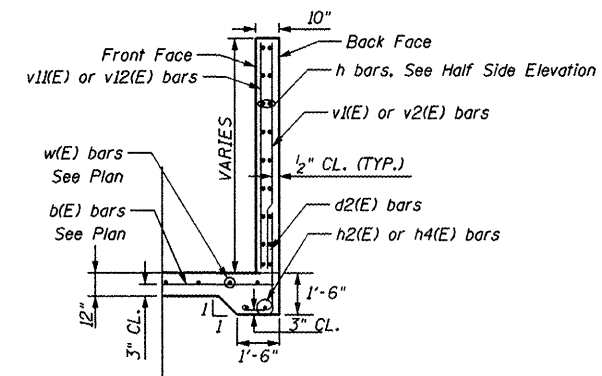


**END ELEVATION
(LOOKING SOUTH)**

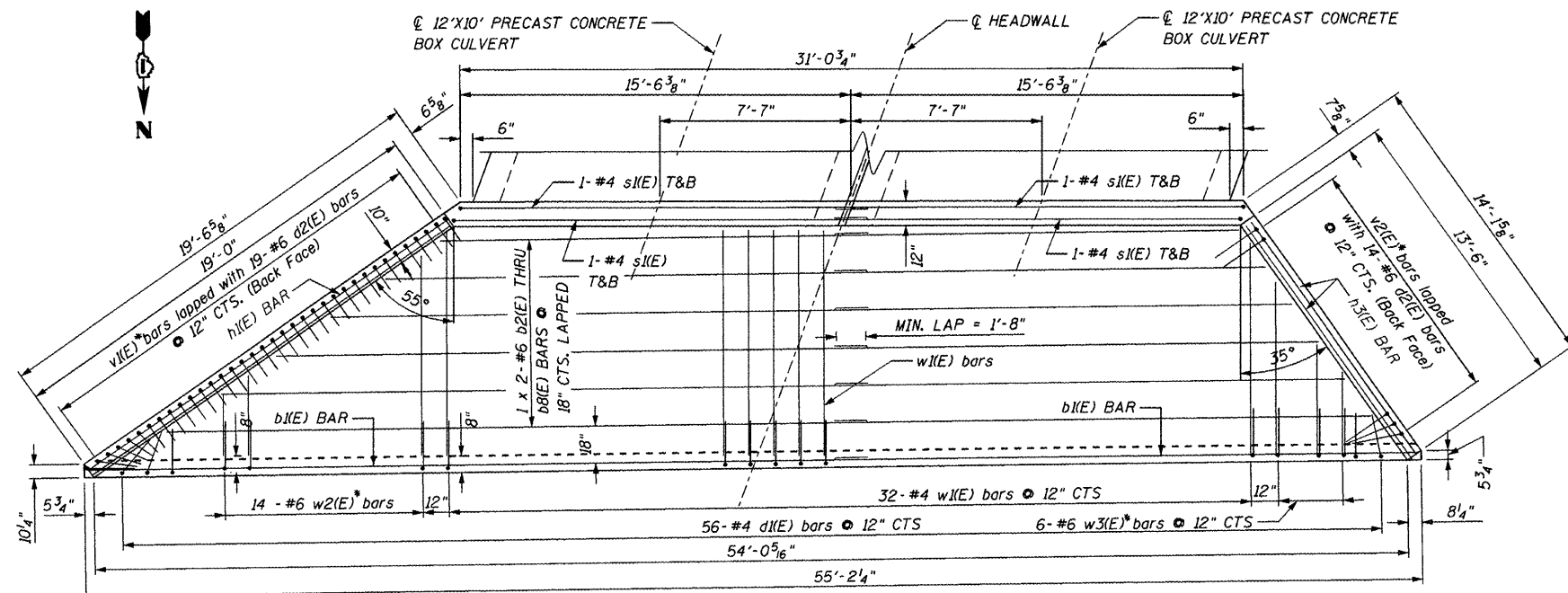
- * CUT TO FIT SEE BAR CUTTING DIAGRAM
- ** BEND IN FIELD
- *** MEASURED ALONG FRONT FACE



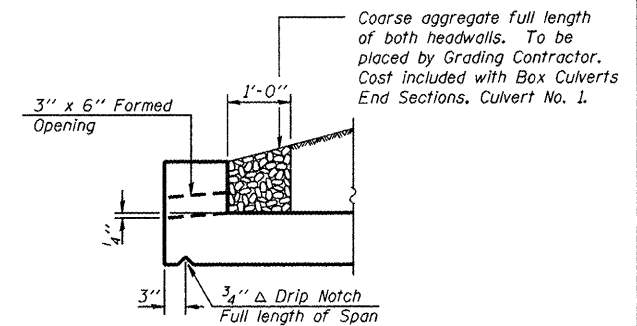
HALF SIDE ELEVATION



WALL ELEVATION



PLAN



**DRAIN DETAIL
AT DOWNSTREAM END**

NOTES:

Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 3x2 - #5 etc. indicates 3 lines of bars with 2 lengths per line.
 Bars cut from v1(E), v2(E), w2(E), and w3(E) shall be saved for the south end section.

MIN. BAR LAPS

#4	1'-8"
#6	2'-7"

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 3/15/2012 10:17:27 AM
 FILE NAME: 86100196-22-62317-C003.dgn
 PLOT DRIVER: pdfcpl
 PEN TABLE: Struct_22x34.tbl



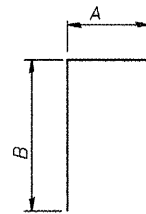
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PLOT DATE =	CHECKED - RGD	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH END SECTION DETAILS
STRUCTURE NO. 016-2826**

SHEET NO. 4 OF 8 SHEETS

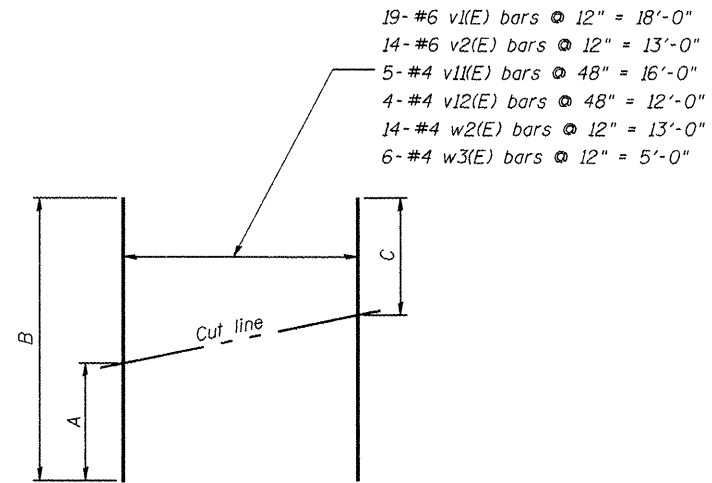
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	15
CONTRACT NO. 62339			ILLINOIS FED. AID PROJECT	



BAR d1(E), d2(E), and s1(E)

BAR BEND TABLE

Bar	A	B
d ₁ (E)	2'-0"	2'-4"
d ₂ (E)	1'-0"	3'-11"
s ₁ (E)	7'-9"	16'-8"



FIELD CUTTING DIAGRAM

* Order v1(E), v2(E), w2(E), & w3(E) bars full length. Cut to fit and use the remainder of bars for South End Section.

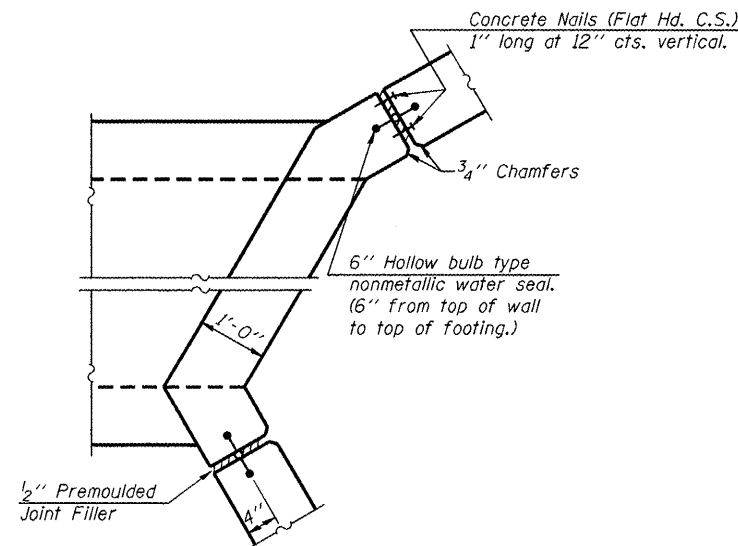
	A	B	C
v ₁ (E)	6'-5"	17'-7"	6'-5"
v ₂ (E)	6'-5"	17'-7"	6'-5"
v ₁₁ (E)	6'-5"	17'-7"	6'-5"
v ₁₂ (E)	6'-5"	17'-7"	6'-5"
w ₂ (E)	1'-2"	11'-4"	1'-2"
w ₃ (E)	1'-11"	10'-10"	1'-11"

- 19- #6 v1(E) bars @ 12" = 18'-0"
- 14- #6 v2(E) bars @ 12" = 13'-0"
- 5- #4 v11(E) bars @ 48" = 16'-0"
- 4- #4 v12(E) bars @ 48" = 12'-0"
- 14- #4 w2(E) bars @ 12" = 13'-0"
- 6- #4 w3(E) bars @ 12" = 5'-0"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₁ (E)	6	#4	28'-3"	┌───┐
d ₂ (E)	2	#6	27'-1"	┌───┐
d ₃ (E)	2	#6	25'-6"	┌───┐
d ₄ (E)	2	#6	23'-11"	┌───┐
d ₅ (E)	2	#6	22'-4"	┌───┐
d ₆ (E)	2	#6	20'-9"	┌───┐
d ₇ (E)	2	#6	19'-1"	┌───┐
d ₈ (E)	2	#6	17'-6"	┌───┐
d ₁ (E)	56	#4	4'-4"	┌──┐
d ₂ (E)	33	#6	4'-11"	┌──┐
h ₁ (E)	6	#4	18'-10"	┌───┐
h ₂ (E)	18	#4	18'-8"	┌───┐
h ₃ (E)	6	#4	13'-4"	┌───┐
h ₄ (E)	18	#4	13'-2"	┌───┐
s ₁ (E)	8	#4	23'-11"	┌───┐
v ₁ (E)	19	#6	17'-7"	┌───┐
v ₂ (E)	14	#6	17'-7"	┌───┐
v ₁₁ (E)	5	#4	17'-7"	┌───┐
v ₁₂ (E)	4	#4	17'-7"	┌───┐
w ₁ (E)	32	#4	10'-8"	┌───┐
w ₂ (E)	14	#6	11'-4"	┌───┐
w ₃ (E)	6	#6	10'-10"	┌───┐
** Concrete Structures			Cu. Yd.	33.1
** Reinforcement Bars, Epoxy Coated			Pound	3,160

** Included for bidding purposes. Included in the cost of Box Culvert End Sections, Culvert No. 1



CORNER DETAIL

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 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 3/19/2012 10:16:55 AM
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 PLOT DRIVER: pdf.plt
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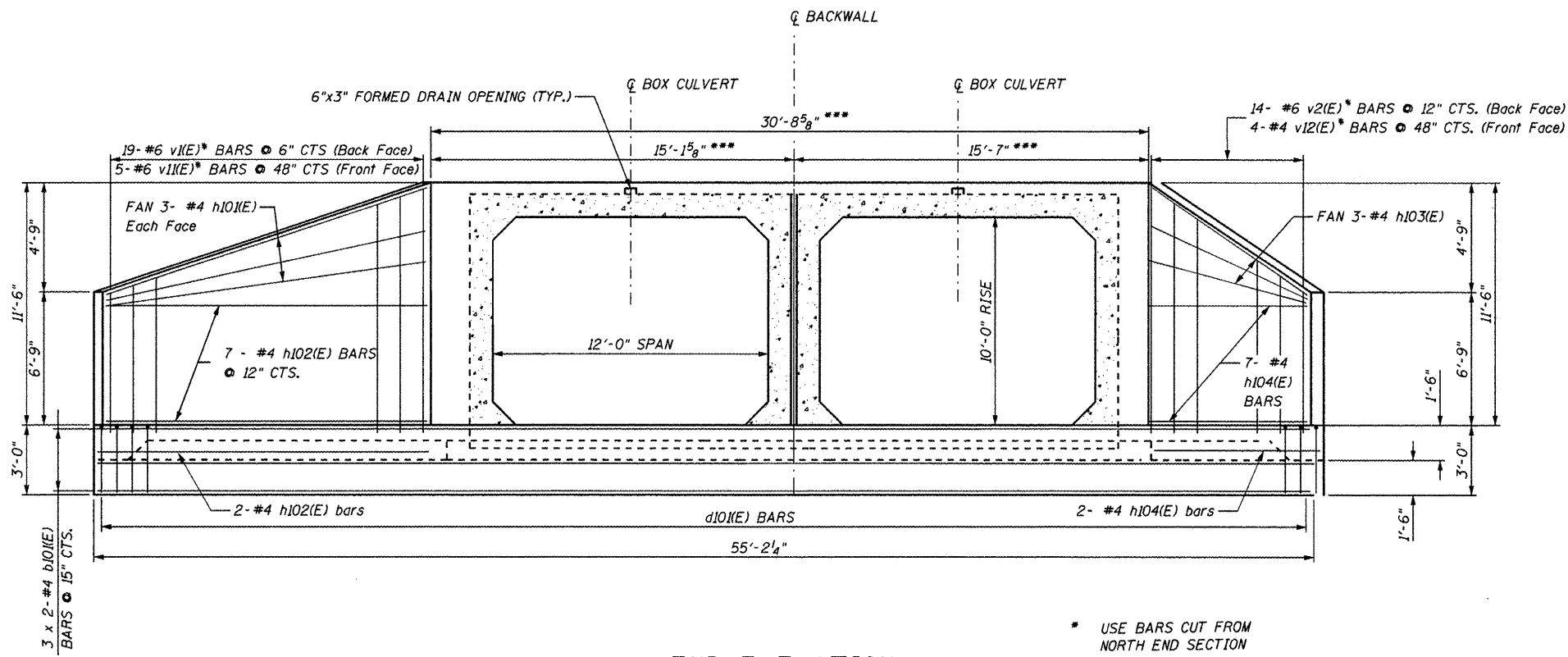
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH END SECTION DETAILS
 STRUCTURE NO. 016-2826

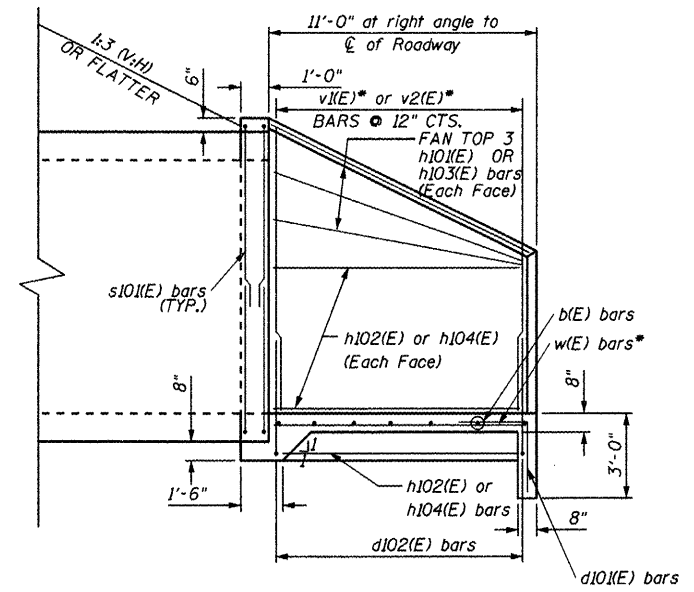
SHEET NO. 5 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62339	

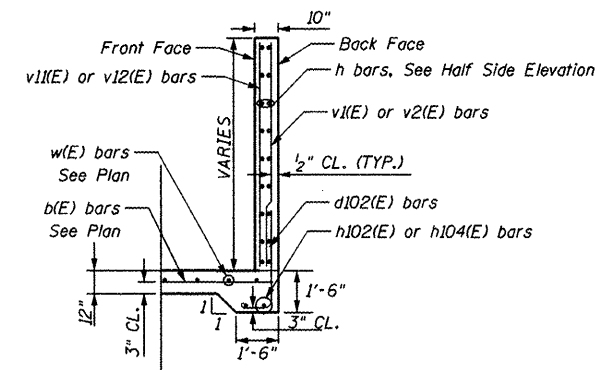


**END ELEVATION
(LOOKING NORTH)**

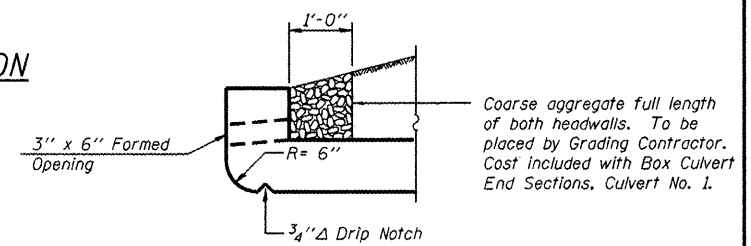
- * USE BARS CUT FROM NORTH END SECTION
- ** BEND IN FIELD
- *** MEASURED ALONG FRONT FACE



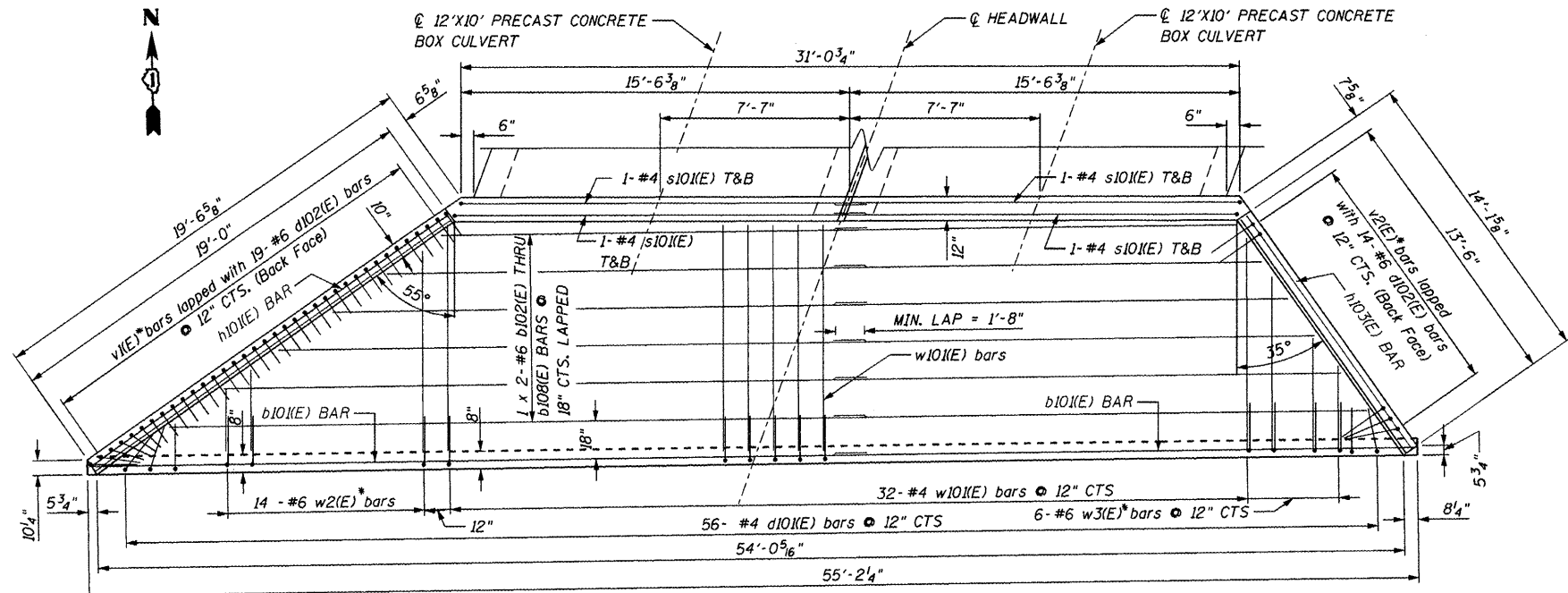
HALF SIDE ELEVATION



WALL ELEVATION



**DRAIN DETAIL
AT UPSTREAM END**



PLAN

NOTES:

Reinforcement bars designated (E) shall be epoxy coated.

Bars indicated thus 3x2 - #5 etc. indicates 3 lines of bars with 2 lengths per line.

Bars cut from the north section v1(E), v2(E), w2(E), and w3(E) shall be used in the south end section.

MIN. BAR LAPS

#4	1'-8"
#6	2'-7"

COMPANY NAME: HRGreen.com
 PROJECT CONTRACT: 016-2826-01
 CLIENT: IDOT
 DATE PLOTTED: 3/19/2012 10:22:10 AM
 FILE NAME: 861009672-62317-C006.dgn
 PLOT DRIVER: pdfplot
 PLOT TABLE: Structure 20x24.tbl



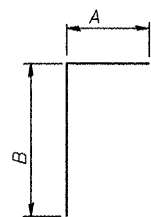
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH END SECTION DETAILS
STRUCTURE NO. 016-2826**

SHEET NO. 6 OF 8 SHEETS

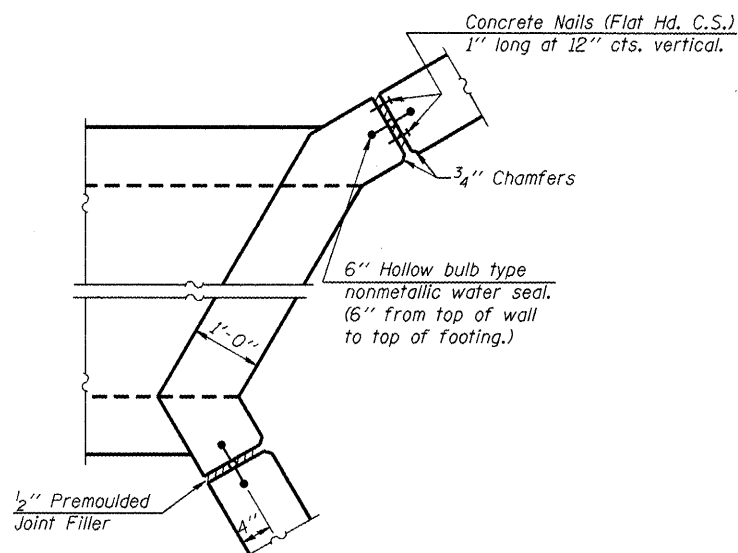
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	17
			CONTRACT NO. 62339	
ILLINOIS FED. AID PROJECT				



**BAR d101(E), d102(E),
and s101(E)**

BAR BEND TABLE

Bar	A	B
d101(E)	2'-0"	2'-4"
d102(E)	1'-0"	3'-11"
s101(E)	6'-9"	16'-8"



CORNER DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b101(E)	6	#4	28'-3"	—
b102(E)	2	#6	27'-1"	—
b103(E)	2	#6	25'-6"	—
b104(E)	2	#6	23'-11"	—
b105(E)	2	#6	22'-4"	—
b106(E)	2	#6	20'-9"	—
b107(E)	2	#6	19'-1"	—
b108(E)	2	#6	17'-6"	—
d101(E)	56	#4	4'-4"	┌
d102(E)	33	#6	4'-11"	┌
h101(E)	6	#4	18'-10"	—
h102(E)	18	#4	18'-8"	—
h103(E)	6	#4	13'-4"	—
h104(E)	18	#4	13'-2"	—
s101(E)	8	#4	23'-11"	┌
w101(E)	32	#4	10'-8"	—
** Concrete Structures			Cu. Yd.	33.1
** Reinforcement Bars, Epoxy Coated			Pound	1,850

** Included for bidding purposes. Included in the cost of Box Culvert End Section, Culvert No. 1

* For v1(E), v2(E), v11(E), v12(E), w2(E), & w3(E) bars see North End Section Details, Sheet 5.

COMPANY NAME: HRGreen.com
 PROJECT: 102Y-A-B
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
 DATE PLOTTED: 3/19/2012 9:39:47 AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH END SECTION DETAILS
STRUCTURE NO. 016-2826

SHEET NO. 7 OF 8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62339				
ILLINOIS FED. AID PROJECT				

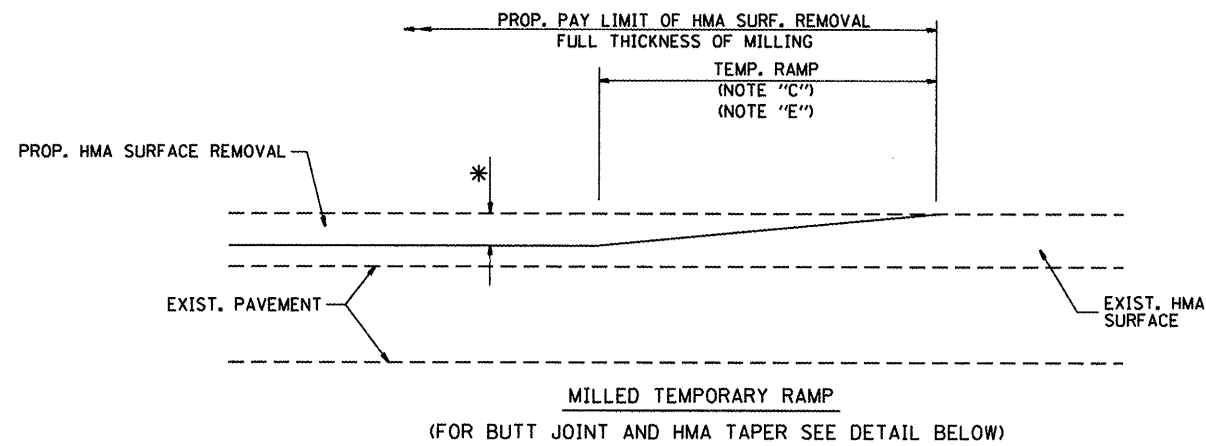
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SECT. 102Y-A-B		LOCATION		S. 22., TWP.		37N., R. 12E.			
Boring No.	2	D	B	Surface Water Elev.	D	B			
Station	283.5	E	L	Groundwater Elev.	E	L			
Offset	19.00 FT LT	P	O	when drilling	P	O			
Surface Elev.	525.50 ft	T	S	at Completion	T	S			
		H	S	offer	H	S			
		Du	W		Du	W			
		tsf	%		tsf	%			
1" Asphalt Concrete 4" Gravel Base Course FILL - Brown clayey SAND, little gravel, moist A-2-4 FILL - Large Gravel and Cobbles, trace clay, trace clay, damp A-1-a Medium dense brown SAND, trace to little gravel, trace clay, moist to very moist A-1-b Possible FILL Medium dense brown SAND, trace to little gravel, trace clay, wet A-1-b Possible FILL Loose brown SAND, trace gravel, saturated A-1-b Very dense SAND and GRAVEL, trace clay, very moist to moist A-1-a Very dense gray Cobbles and Boulders, possible fractured rock, wet A-1-a Probable weathered and fractured Dolomite Rock, hard drilling Relatively sound Rock, hard drilling Auger Refusal at 24.5'									

ROUTE		DESCRIPTION		STRUCT. NO.		DRILLED BY		DATE	
EAP Route 344		Illinois Route 83 over Mill Creek		06-2826		TSC/L-56.59		3/22/03	
SECT. 102Y-A-B		LOCATION		S. 22., TWP.		37N., R. 12E.			
Boring No.	2	D	B	Surface Water Elev.	D	B			
Station	283.5	E	L	Groundwater Elev.	E	L			
Offset	16.00 FT ST	P	O	when drilling	P	O			
Surface Elev.	525.50 ft	T	S	at Completion	T	S			
		H	S	offer	H	S			
		Du	W		Du	W			
		tsf	%		tsf	%			
1" Asphalt Concrete FILL - B and dk gr clayey SAND, trace gravel, moist A-1-a-2 FILL - Brown clayey SAND, trace gravel, moist A-1-b FILL - Brown SAND and GRAVEL, trace clay, damp A-1 CME-75 Truck Rig (#256) CME Automatic Hammer 3.25" (83 mm) MSA MX Rock Core 16.5' to 26.5' Loose to medium dense brown silty SAND and GRAVEL, trace clay, moist to very moist A-1-b Possible FILL Loose brown clayey SAND, trace gravel, wet A-2-4 Dense to very dense gray Gravel, cobbles and Boulders, wet A-1-a Weathered and Fractured Rock, surface, hard drilling Light gray Dolomite, mottled dark gray, silty, thick bedded, dense Fractured 21.5' to 22.5' Core Run 15.5' to 26.5' Recovery = 100% R00 = 85%									

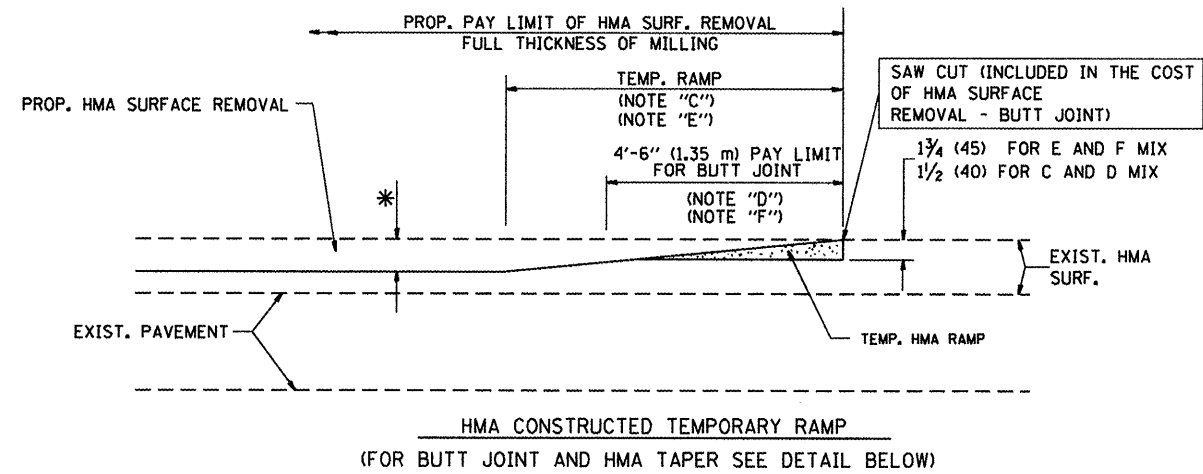
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SECT. 102Y-A-B		LOCATION		S. 22., TWP.		37N., R. 12E.			
Boring No.	5	D	B	Surface Water Elev.	D	B			
Station	283.5	E	L	Groundwater Elev.	E	L			
Offset	21.00 FT LT	P	O	when drilling	P	O			
Surface Elev.	525.50 ft	T	S	at Completion	T	S			
		H	S	offer	H	S			
		Du	W		Du	W			
		tsf	%		tsf	%			
1" Asphalt Concrete 5" Gravel Base Course FILL - Brown and dark gray clayey SAND and GRAVEL, moist A-1-A-2 FILL - Brown SAND, trace to little gravel, trace clay, moist A-1-b Medium dense brown SAND and GRAVEL, trace clay, moist A-1 Possible FILL Loose brown clayey SAND, trace to little gravel, wet A-1-b Very dense gray SAND and GRAVEL, trace clay, wet A-1-a Weathered and Fractured Rock, hard drilling Light gray Dolomite, mottled dark gray, thick bedded, some stylonitic, dense Core Run 15.0' to 29.0' Recovery = 90% R00 = 70%									

ROUTE		DESCRIPTION		STRUCT. NO.		DRILLED BY		DATE	
EAP Route 344		Illinois Route 83 over Mill Creek		06-2826		TSC/L-56.59		3/1/03	
SECT. 102Y-A-B		LOCATION		S. 22., TWP.		37N., R. 12E.			
Boring No.	4	D	B	Surface Water Elev.	D	B			
Station	283.5	E	L	Groundwater Elev.	E	L			
Offset	16.00 FT ST	P	O	when drilling	P	O			
Surface Elev.	525.50 ft	T	S	at Completion	T	S			
		H	S	offer	H	S			
		Du	W		Du	W			
		tsf	%		tsf	%			
4" Asphalt Concrete 8" Gravel Base Course FILL - Brown SAND, trace to little gravel, trace clay, moist A-1-b FILL - Brown SAND and GRAVEL, damp A-1-a Medium dense brown silty SAND, trace to little gravel, trace clay, moist A-1-b Possible FILL Medium dense brown silty SAND and GRAVEL, trace clay, saturated A-1 Loose brown silty SAND, some gravel, saturated A-1 Very dense gray Boulders and Cobbles, possible weathered and fractured rock, fragments recovered, hard drilling Probable Fractured Rock, hard drilling Relatively sound Rock, hard drilling Auger Refusal at 24.5'									

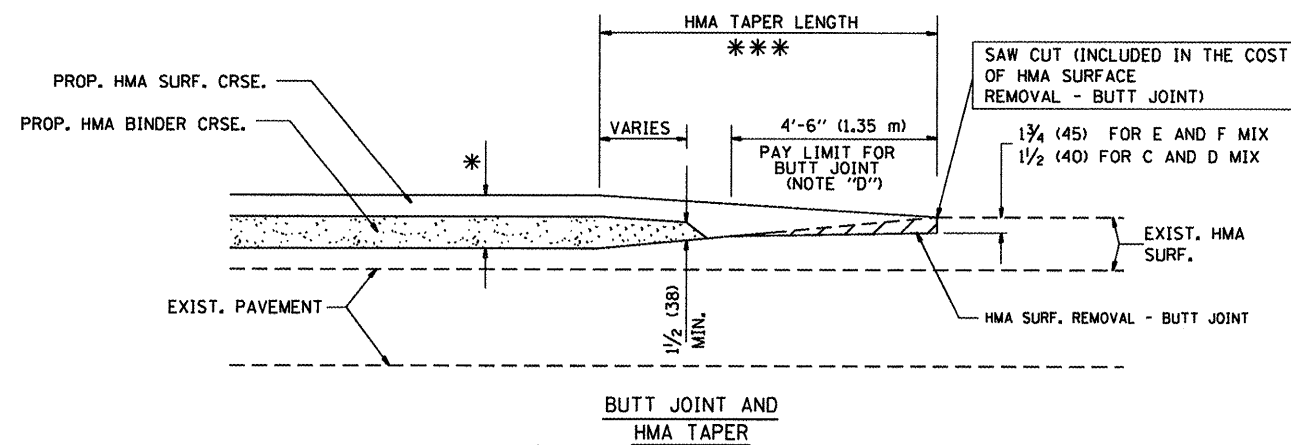
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 CONTACT: HRGreen
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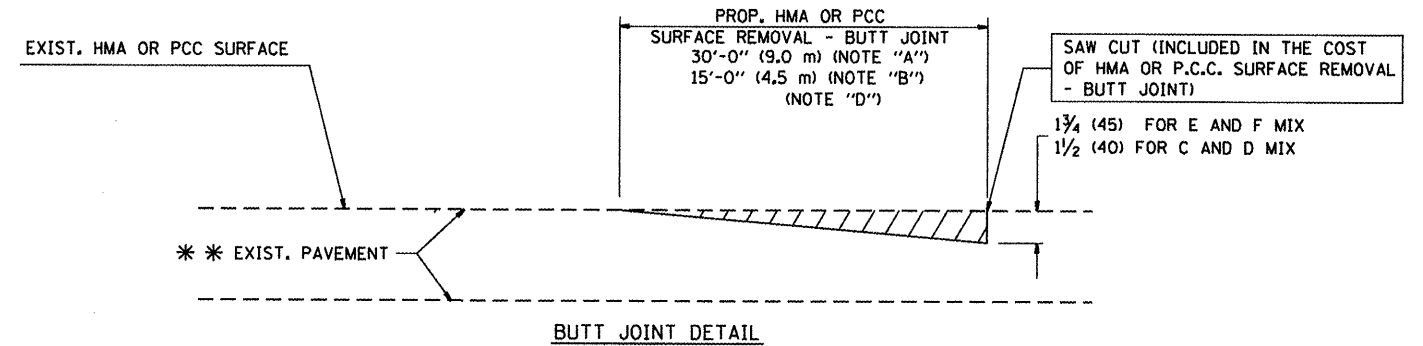
OPTION 1



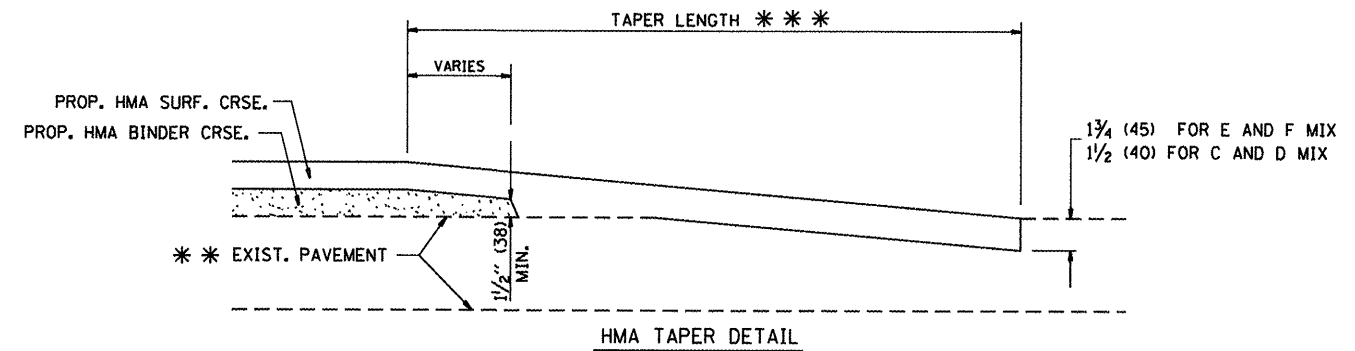
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

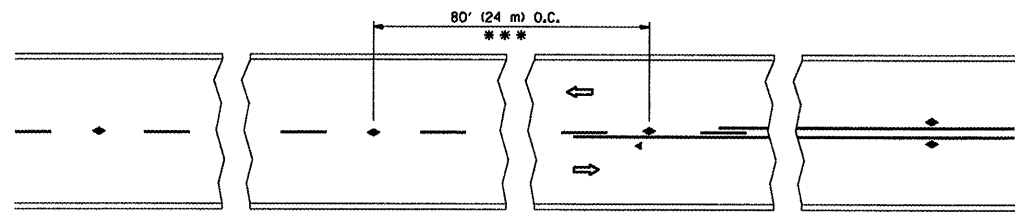
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PLOT DATE = 2/23/2012	DATE - 06-13-90	REVISOR - R. BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

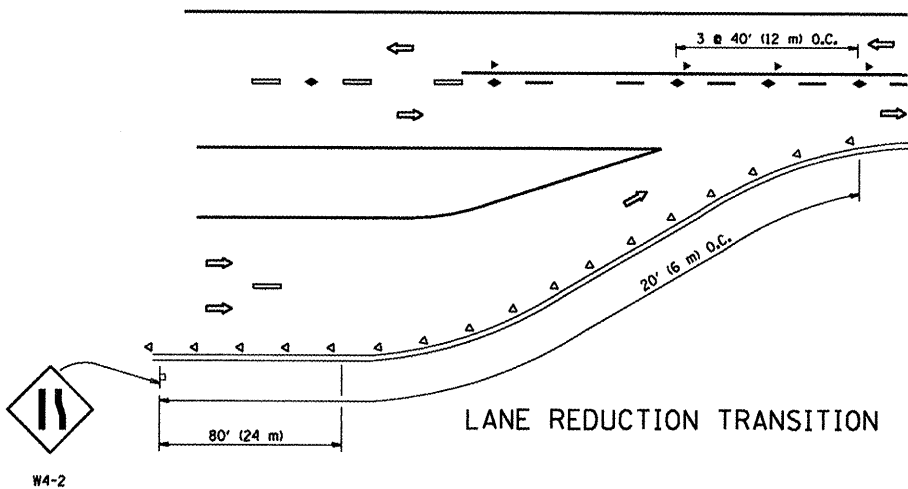
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-05 BD32		CONTRACT NO. 62339		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

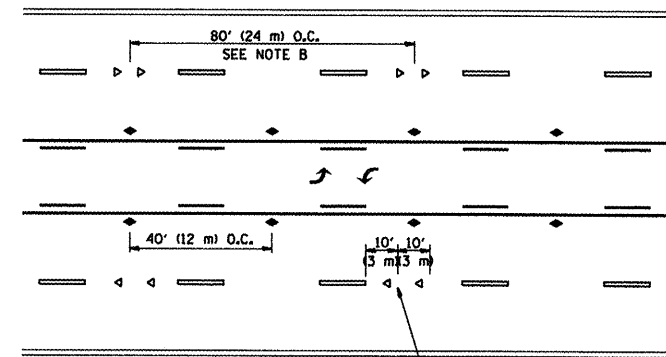


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

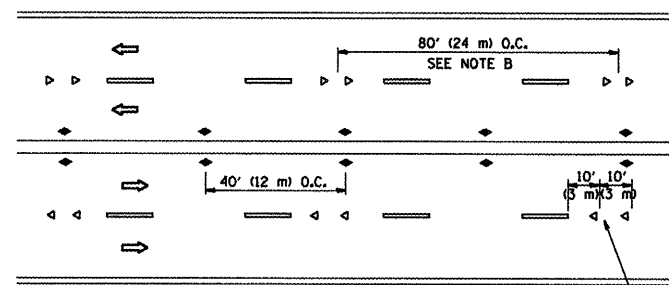
TWO-LANE/TWO-WAY



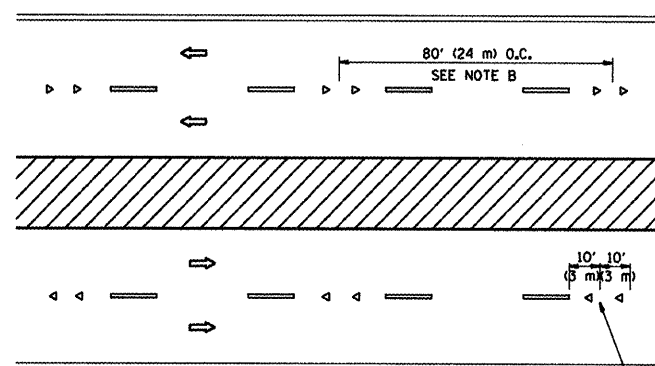
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

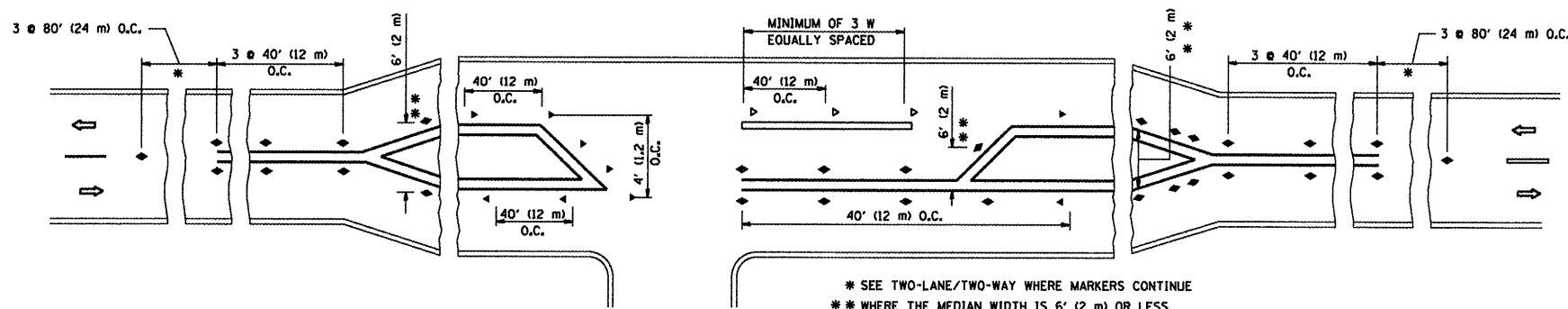
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

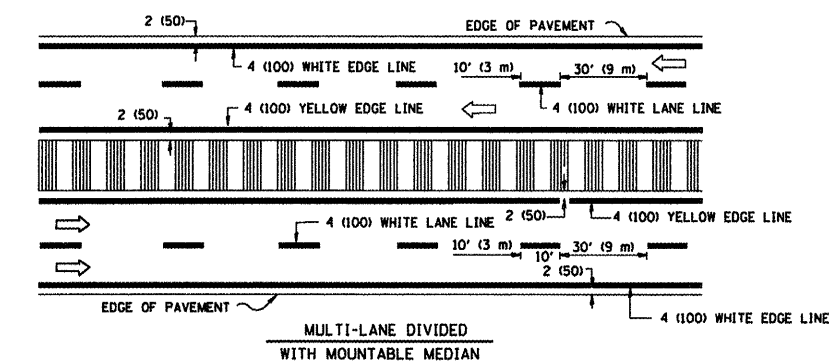
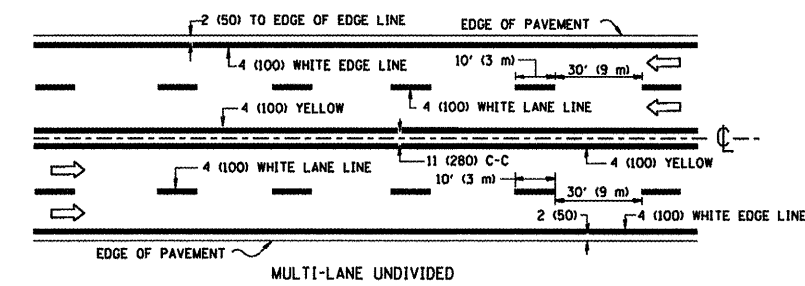
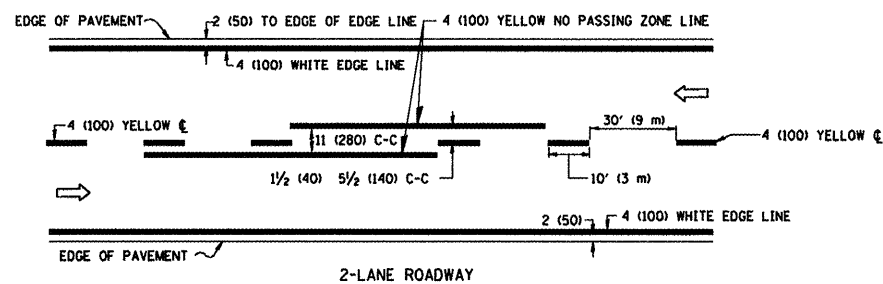
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	PLOT DATE = 2/23/2012	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

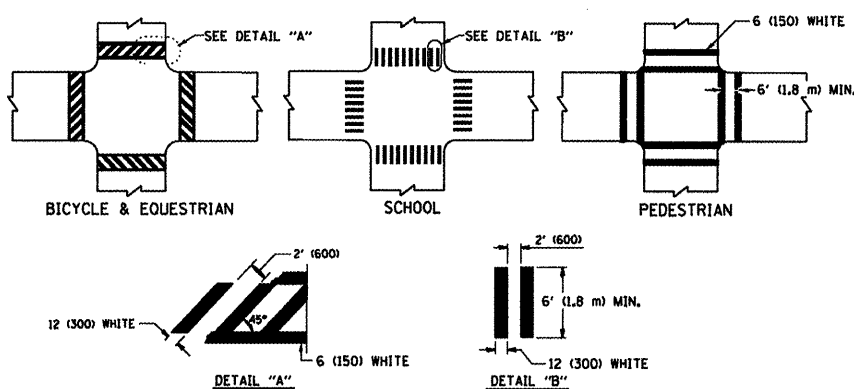
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 62339	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

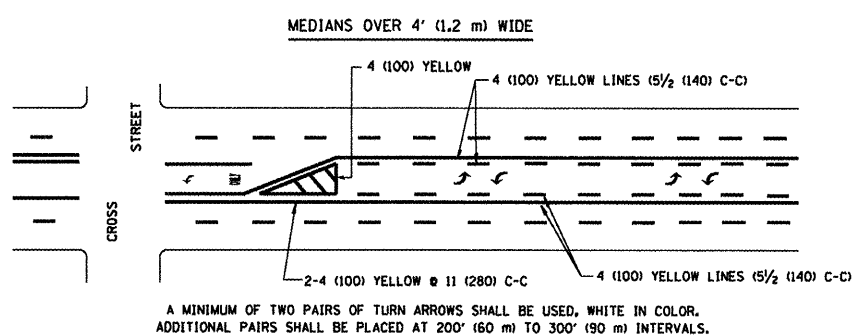
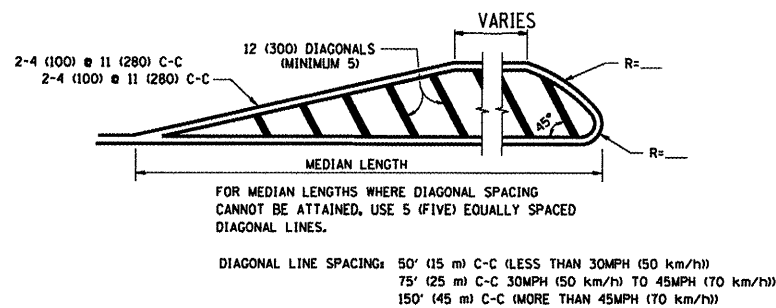
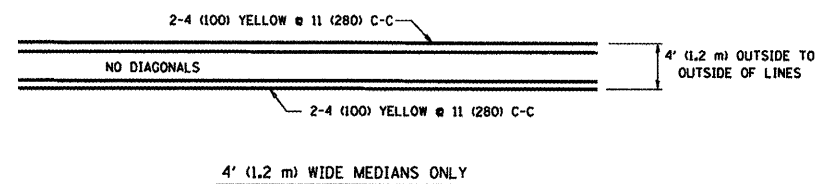


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

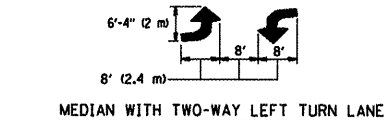
TYPICAL LANE AND EDGE LINE MARKING



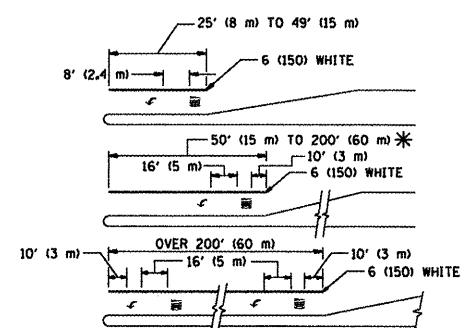
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



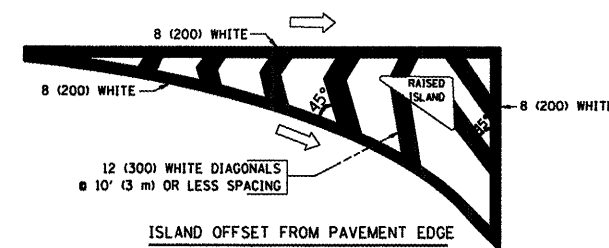
TYPICAL TURN LANE MARKING



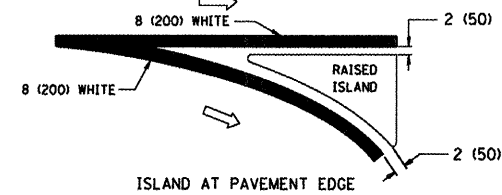
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 (400) LETTERS; 15 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gelbenjr	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
cr:\pw\work\p1\dot\gelbenjr\d0201526\PI0798-shr-plan.dgn		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -
	PLOT DATE = 2/23/2012	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	22
TC-13			CONTRACT NO. 62339	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES MI-40-2424

FOR ILLINOIS ROUTES MI-50-2424

R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

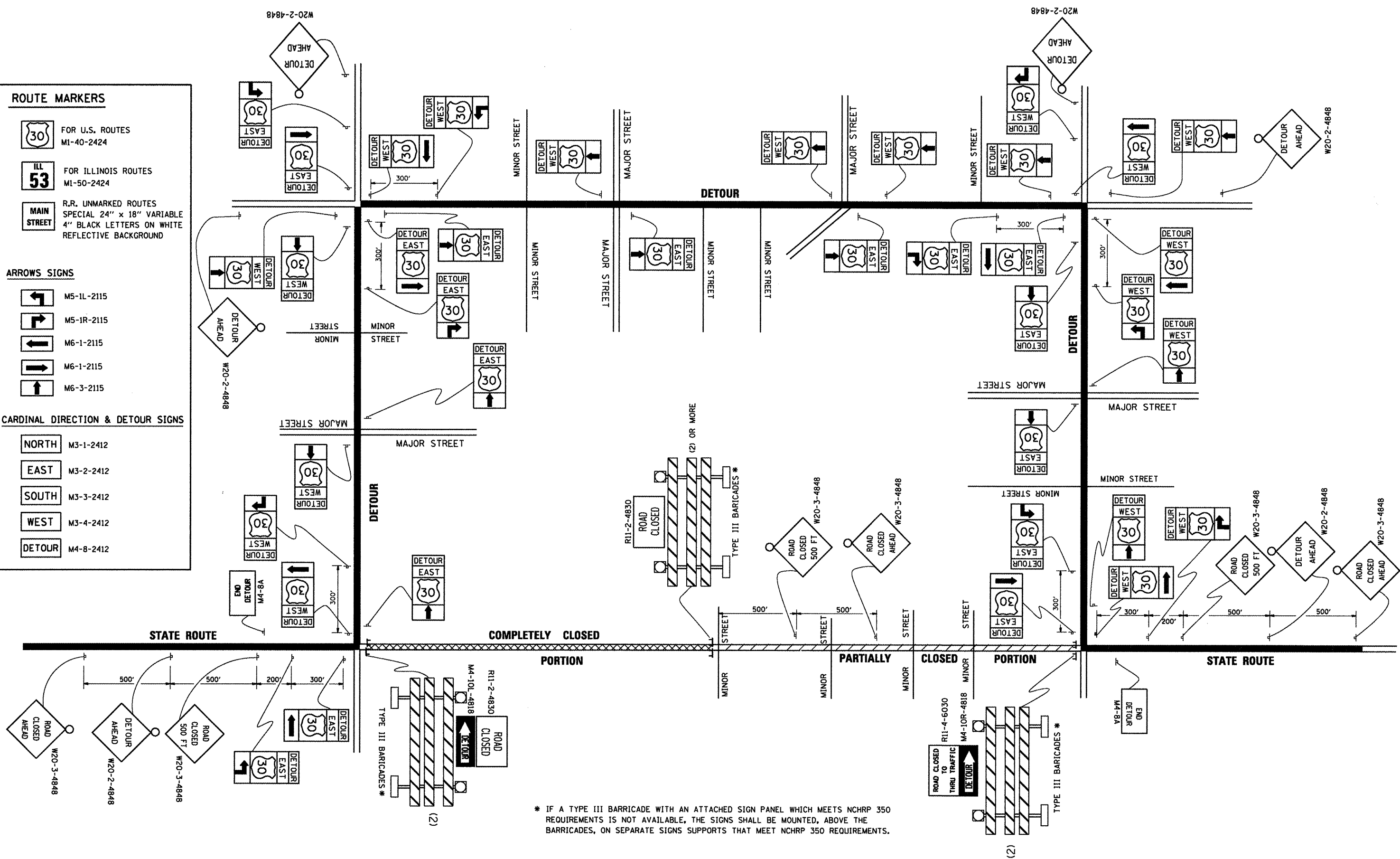
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

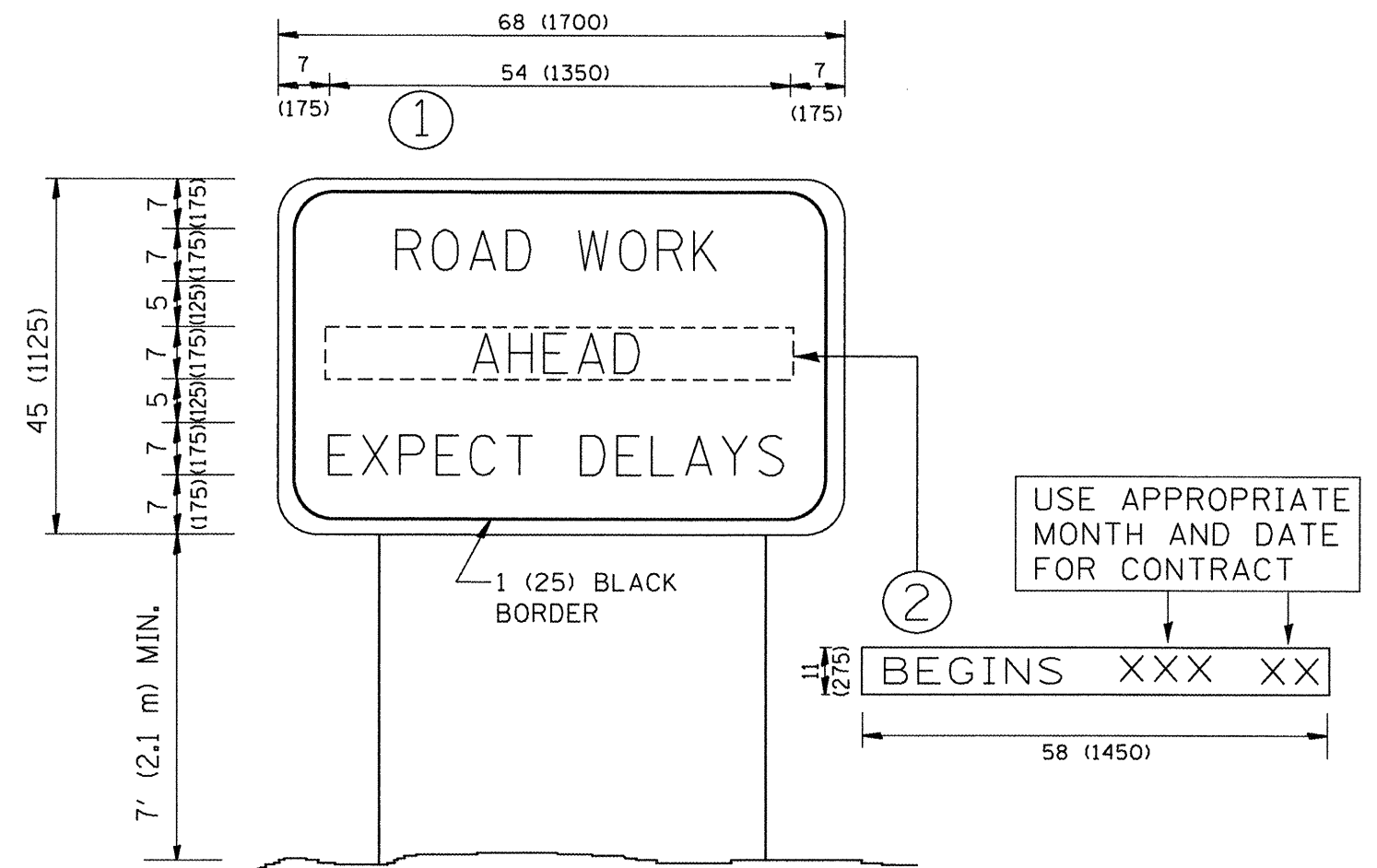
WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = gelbenjr	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ar\pwork\pvidot\gelbenjr\d0201526\PI0798-shs-plan.dgn		DRAWN -	REVISED - R. BORO 09-14-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	344	102Y-A-B	COOK	31	23
		CHECKED -	REVISED -				TO STA.		TC-21			
		DATE -	REVISED -									
							CONTRACT NO. 62339					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gelbenjr	DESIGNED -	REVISED - R. MIRS 09-15-97
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

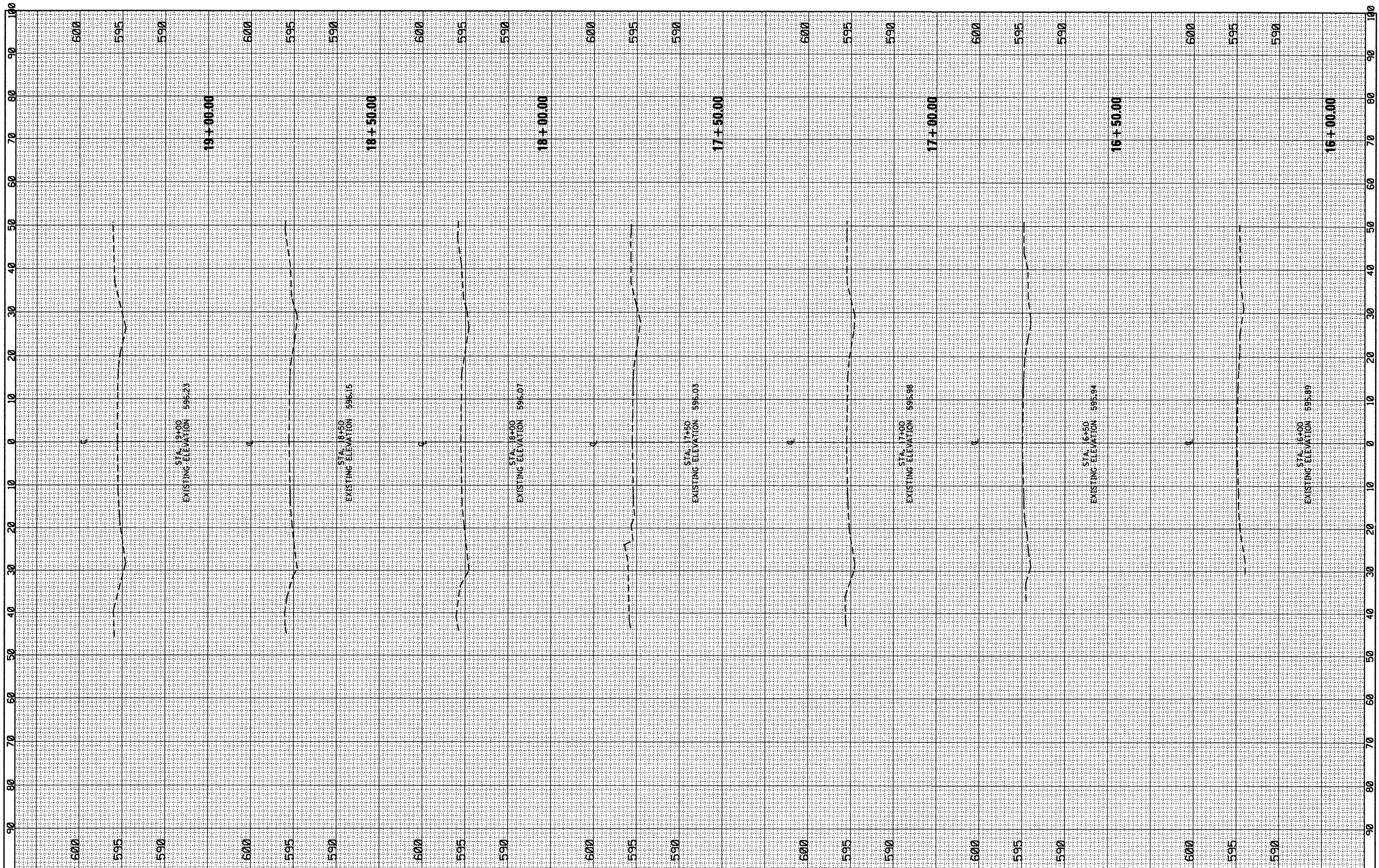
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	24
TC-22			CONTRACT NO. 62339	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

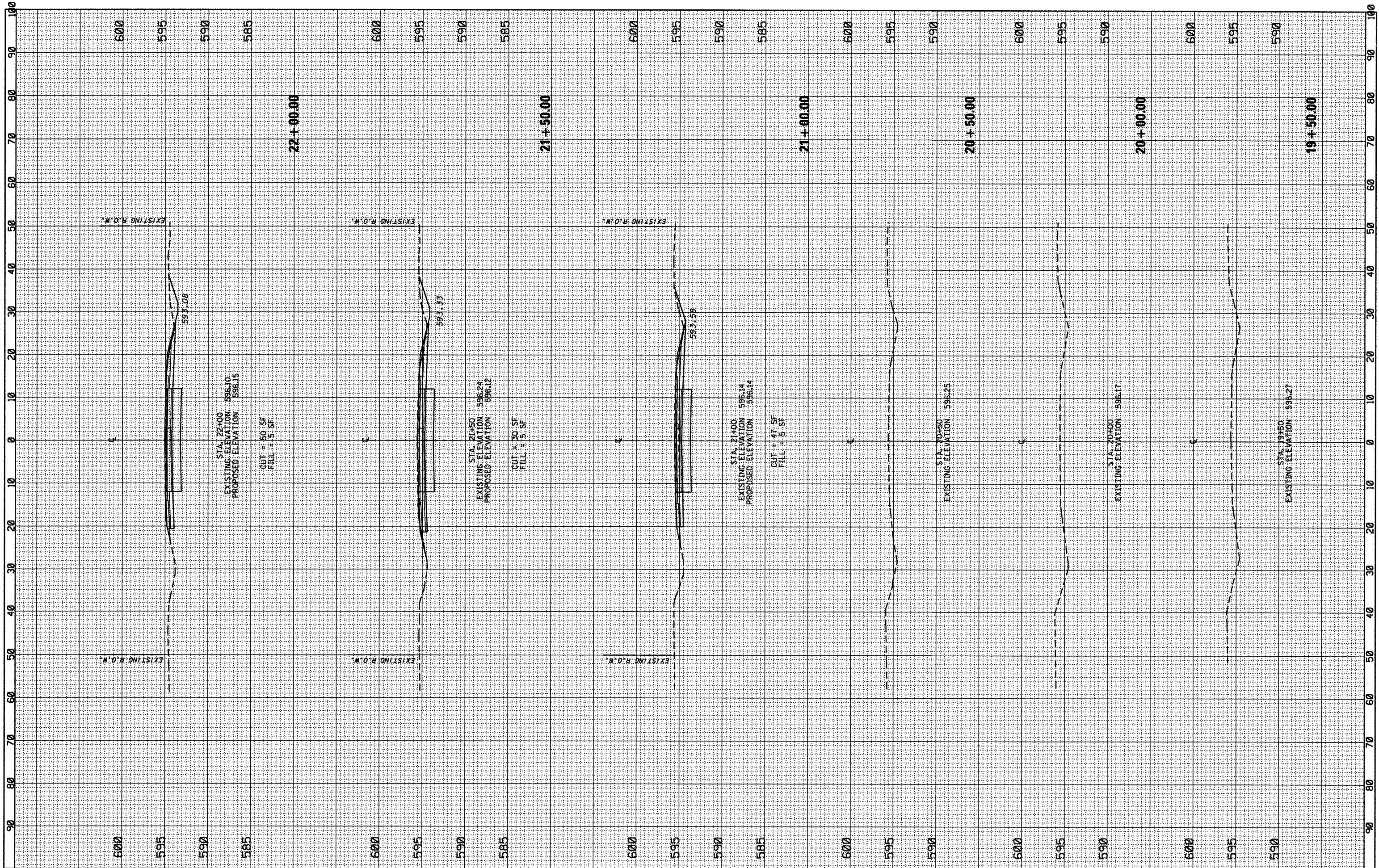
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



FILE NAME =	USER NAME = galbenjr	DESIGNED -	REVISED -	STATE OF ILLINOIS	CROSS SECTIONS		F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pwork\p\sdot\galbenjr\ad0201526\PI07198-sh\ssht-IL83.dgn		DRAWN -	REVISED -		IL. ROUTE 83 OVER MILL CREEK		344	102Y-A-B	COOK	31	25
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -		SHEET OF SHEETS STA. 16+00.00 TO STA. 19+00.00		CONTRACT NO. 62339				
PLOT DATE = 2/23/2012		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

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

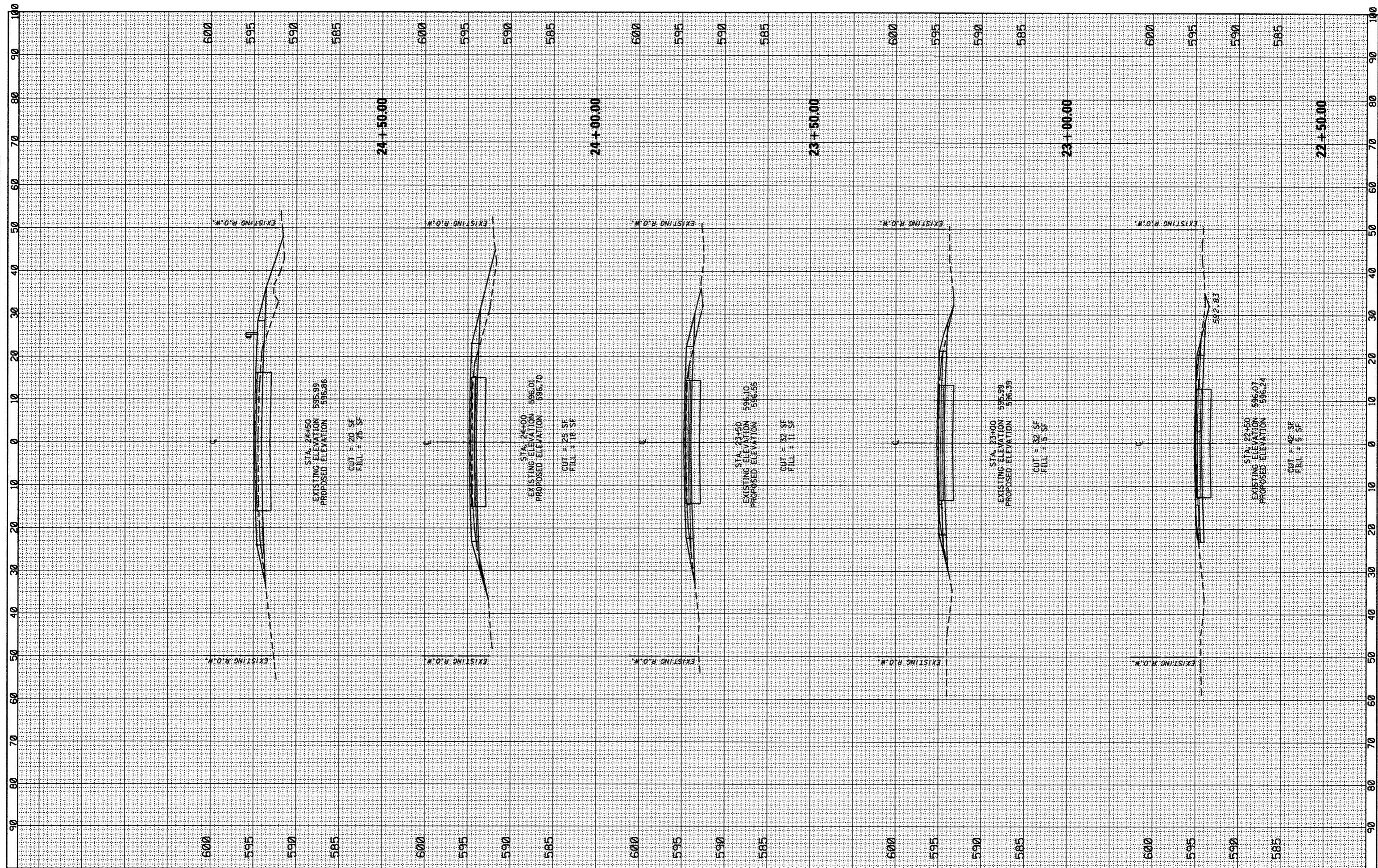
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 SURVEYED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 DATE _____
 AREAS CHECKED _____



FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS	CROSS SECTIONS IL. ROUTE 83 OVER MILL CREEK		F.A.R. RTE. 344	SECTION 102Y-A-B	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 26	
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PLOT DATE = 2/23/2012	DATE -	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

FINAL SURVEY	DATE
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TEMPLATE	
AREAS	
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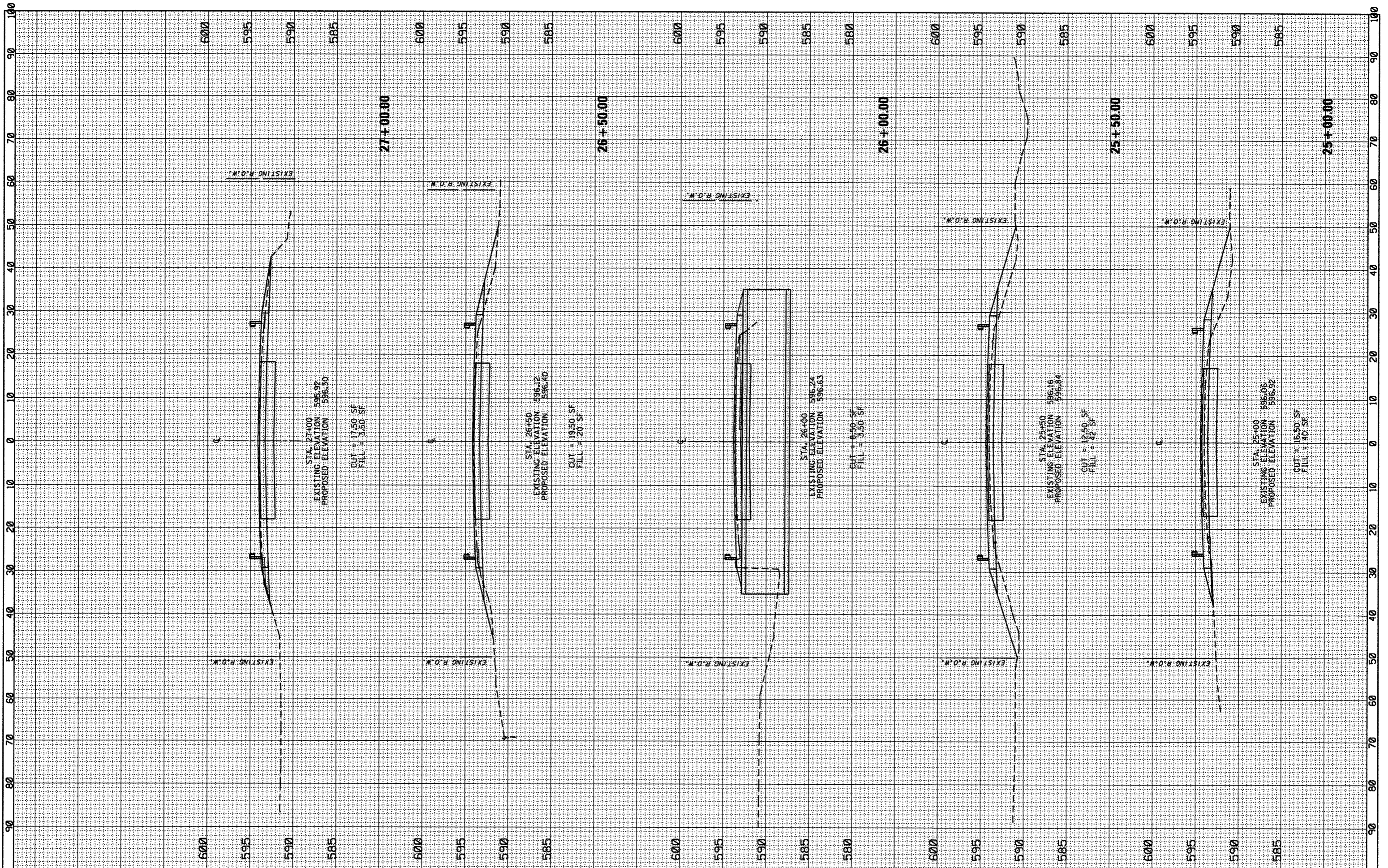
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REVISED	BY
NOTED	
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TEMPLATE	
AREAS	
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FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS	CROSS SECTIONS IL. ROUTE 83 OVER MILL CREEK	F.A.P. RTE. 344	SECTION 102Y-A-B	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 27
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -								
PLOT DATE = 2/23/2012	DATE -	REVISED -								
SHEET OF SHEETS STA. 22+50.00 TO STA. 24+50.00						CONTRACT NO. 62339 ILLINOIS FED. AID PROJECT				

FINISH SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
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AREAS CHECKED		
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FILE NAME =
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USER NAME = galbenj
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STATE OF ILLINOIS

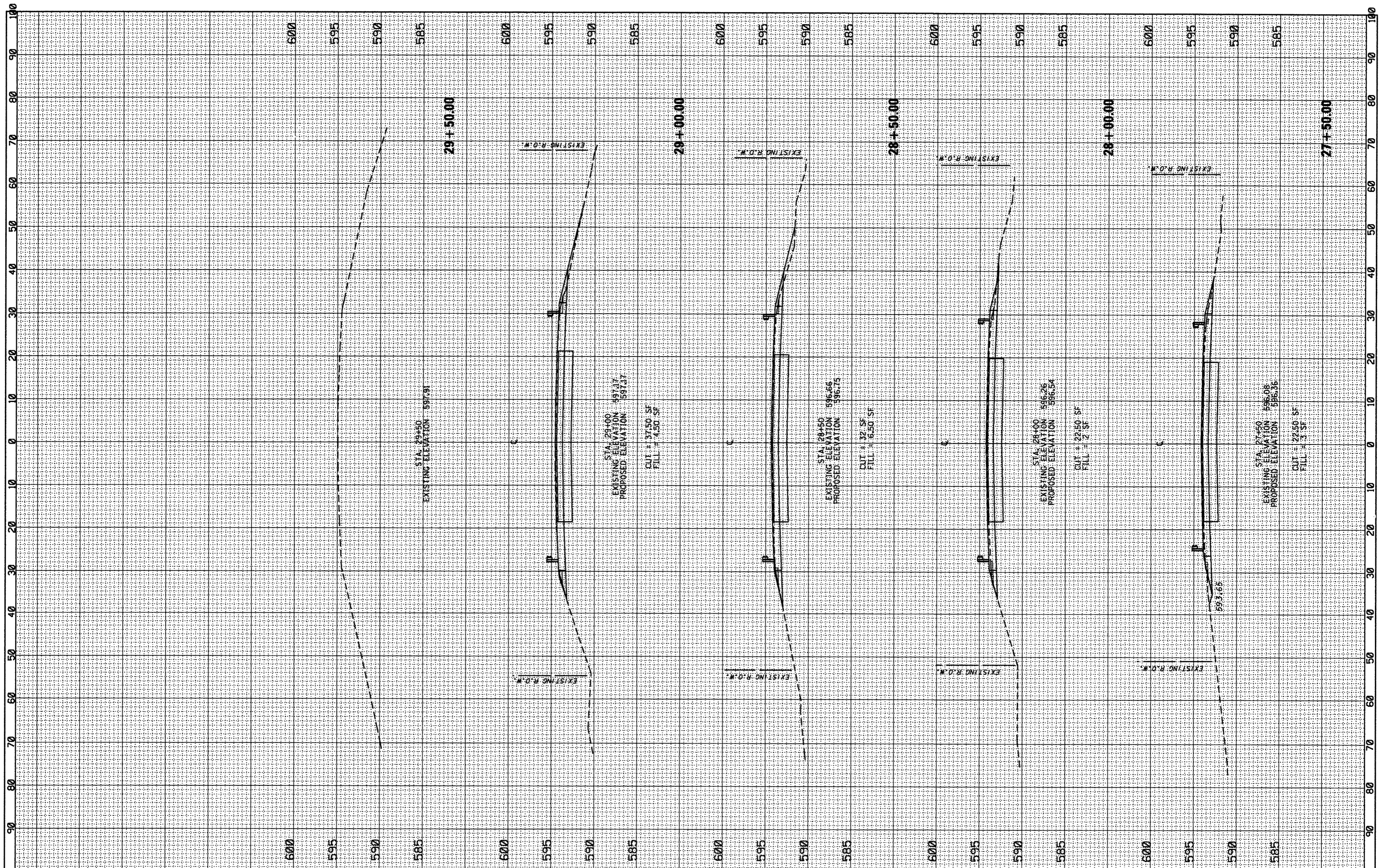
**CROSS SECTIONS
 IL. ROUTE 83 OVER MILL CREEK**

SHEET OF SHEETS STA. 25+00.00 TO STA. 27+00.00

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	28
CONTRACT NO. 62339			ILLINOIS FED. AID PROJECT	

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

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
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CHECKED		



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STATE OF ILLINOIS

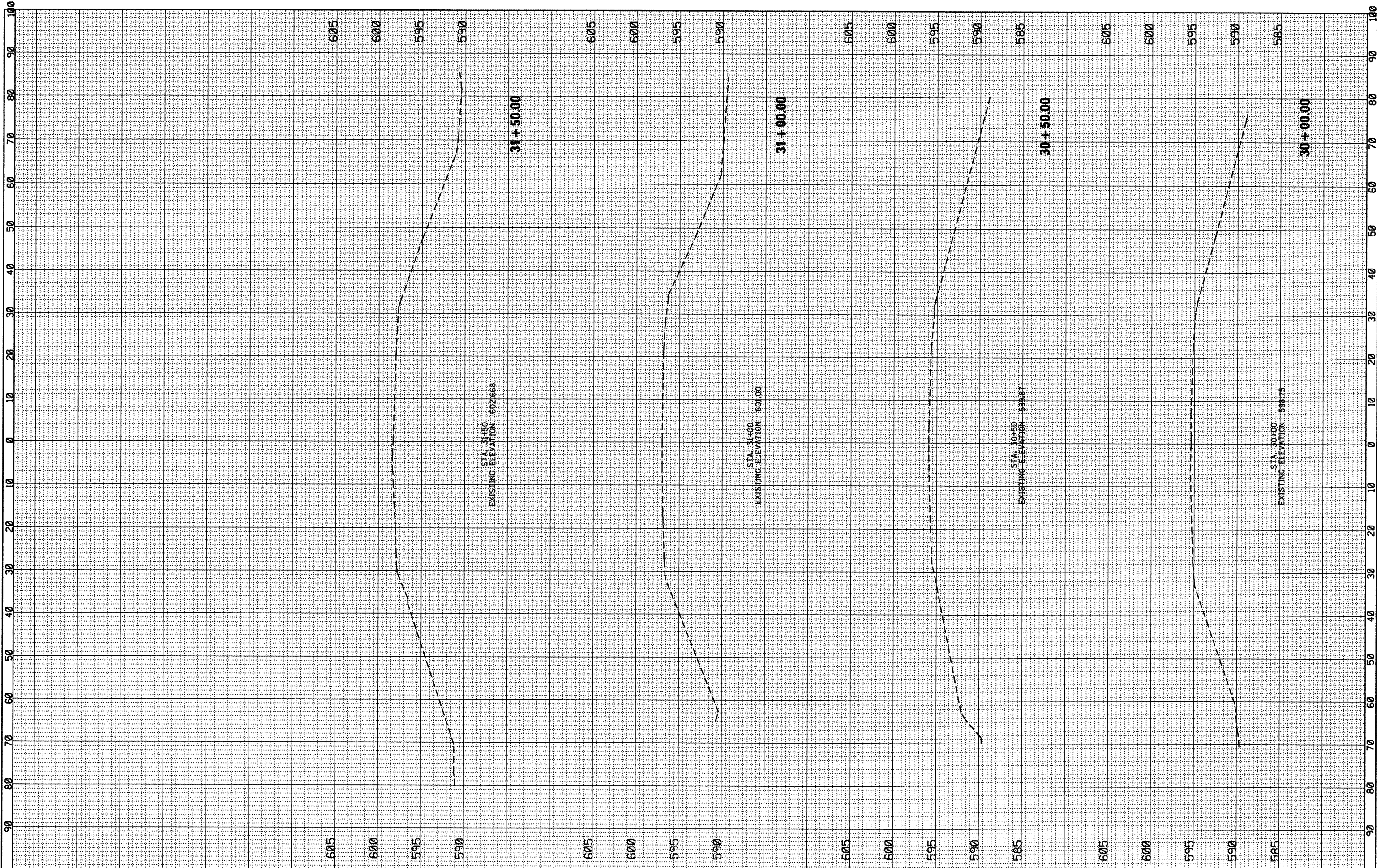
CROSS SECTIONS
 IL. ROUTE 83 OVER MILL CREEK

SHEET OF SHEETS STA. 27+50.00 TO STA. 29+50.00

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	29
CONTRACT NO. 62339				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = gelbanjr
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DESIGNED -	REVISED -
DRAWN -	REVISED -
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DATE -	REVISED -

STATE OF ILLINOIS

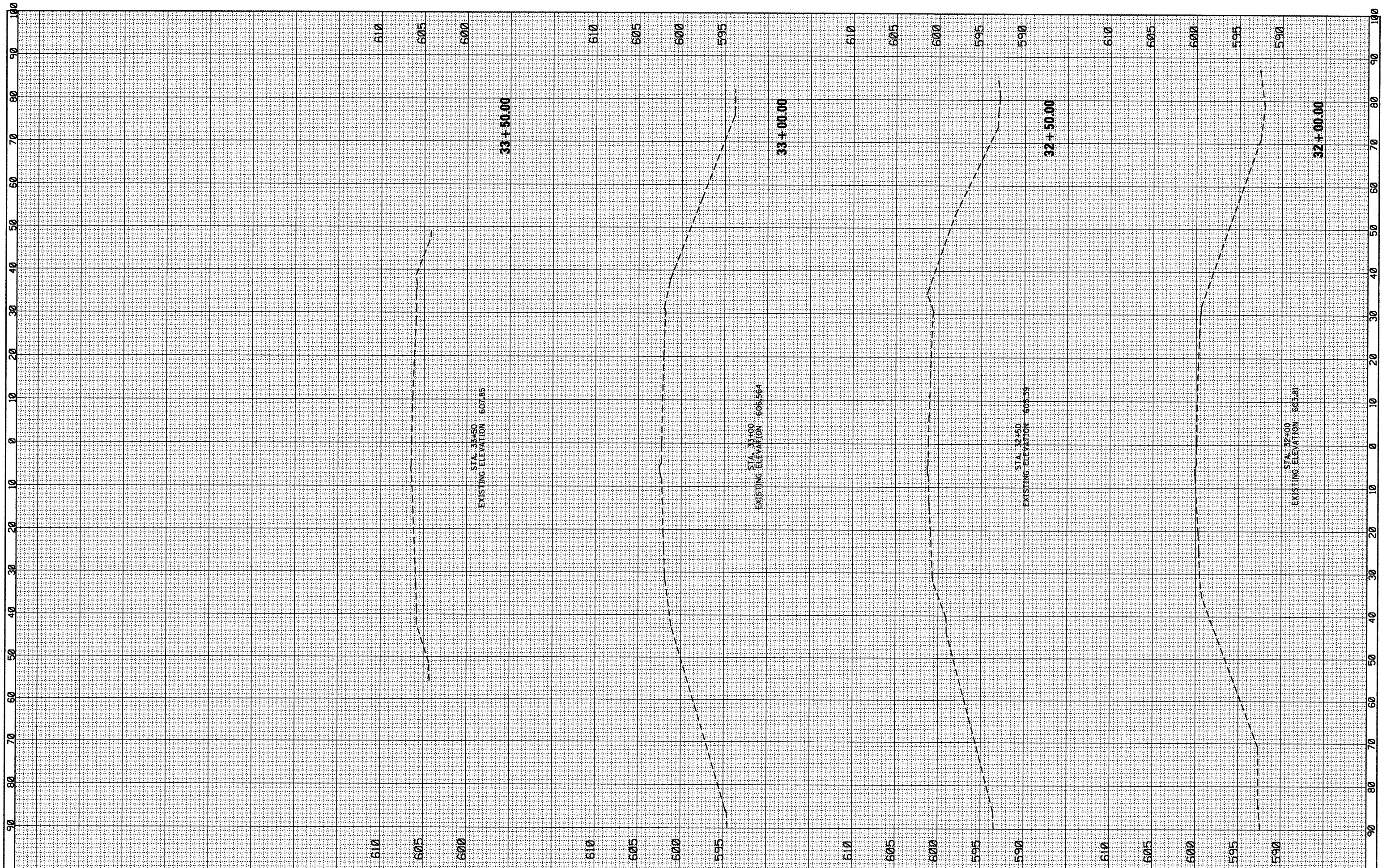
CROSS SECTIONS
 IL. ROUTE 83 OVER MILL CREEK

SHEET OF SHEETS STA. 30+00.00 TO STA. 31+50.00

F.A.R. RTE. 344	SECTION 102Y-A-B	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62339	

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

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



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 CHECKED -
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/23/2012

DESIGNED -
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STATE OF ILLINOIS

CROSS SECTIONS
 IL. ROUTE 83 OVER MILL CREEK

SHEET OF SHEETS STA. 32+00.00 TO STA. 33+50.00

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	102Y-A-B	COOK	31	31
CONTRACT NO. 62339			ILLINOIS FED. AID PROJECT	