

1-18-13 LETTING ITEM 025

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR STATE STANDARDS, SEE SHEET NO. 2

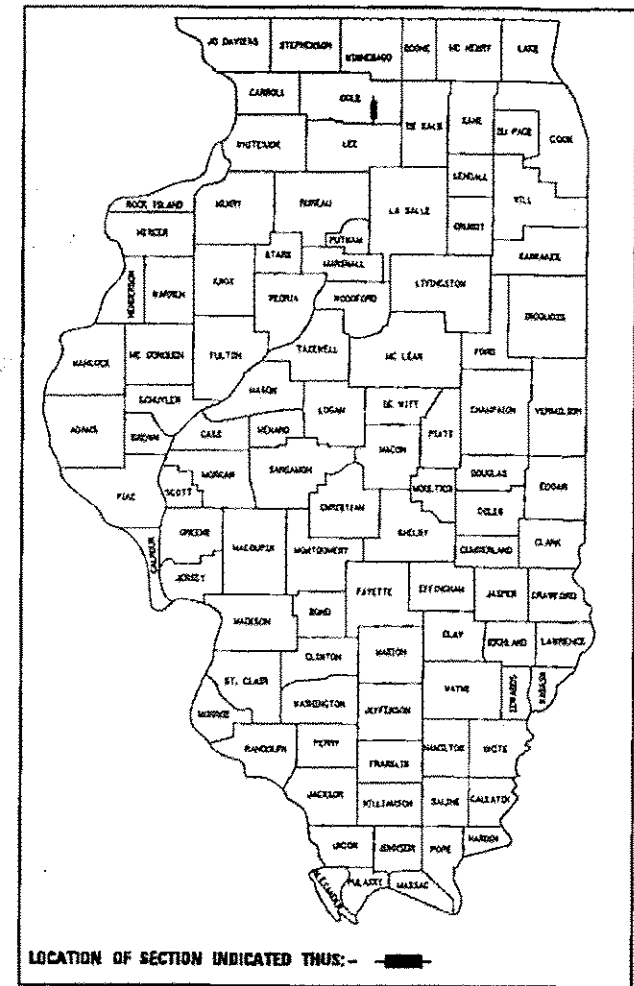
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FAI 39 (I-39) OVER I-88  
S.N. 071-0062 & S.N. 071-0063  
BRIDGE PAINTING  
SECTION D2 BRIDGE PAINTING 2013-2  
OGLE COUNTY  
C-92-176-12

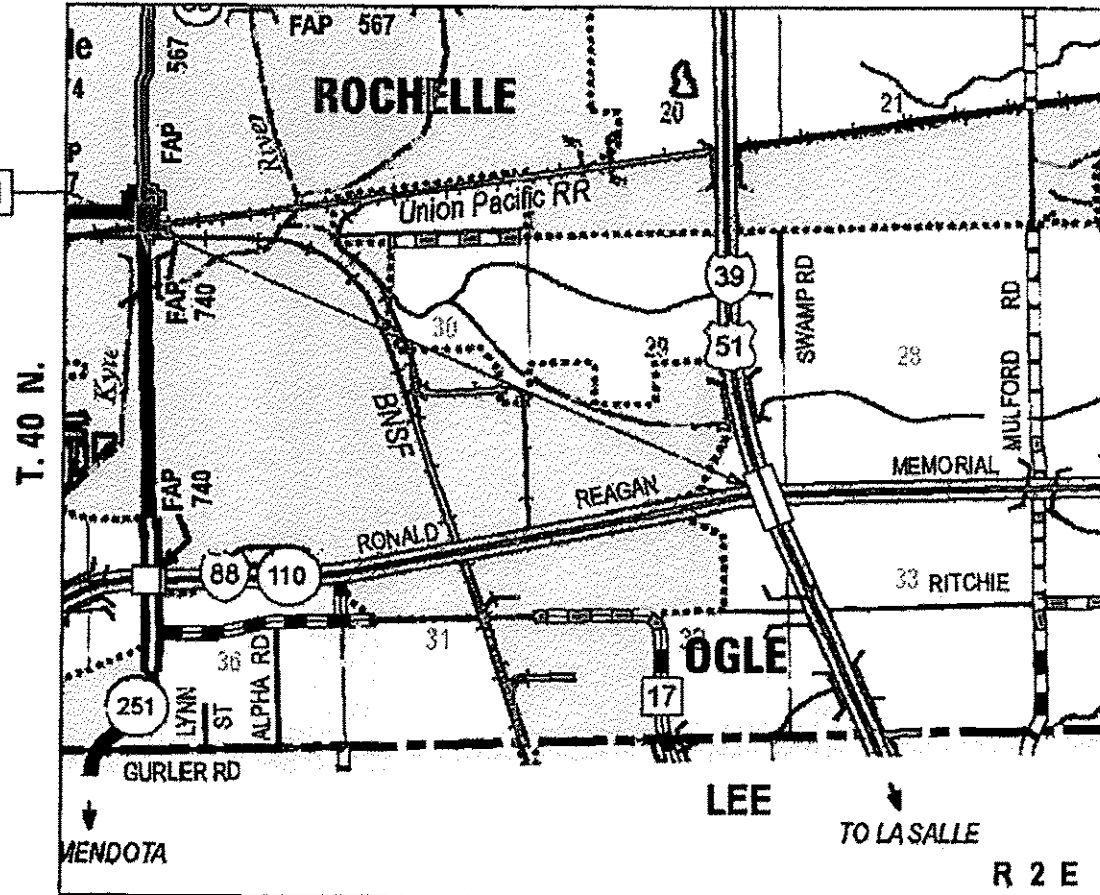
R. 2 E.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	1
FED. ROAD DIST. NO. 2		ILLINOIS	CONTRACT NO. 64J27	

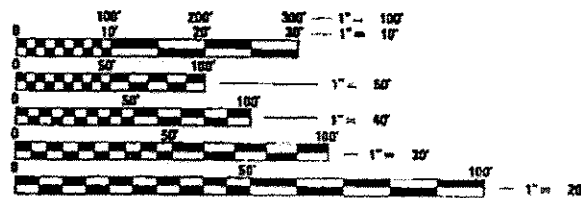
D-92-113-12



PROJECT LOCATION



DEMENT TOWNSHIP (SECTION 29)



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 LOCATING INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT MANAGER : MAHMOUD ETEMADI (815) 284-5393  
BRIDGE PAINT TECHNICIAN : DAN LINK (815) 284-5416  
DESIGN  
PROJECT MANAGER : GEORGE F. LIPTACK (312) 372-2023  
CONTRACT NO. 64J27

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct. 9 2012  
Paul Koeter  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 7 2012  
John D. Balanzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 2012  
William R. Freyler  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



Birinder S. Sachdeva 3-7-12  
BIRINDER S. SACHDEVA, P.E. DATE  
EXPIRES: 11-30-2013

CHRISTIAN ROGGE & ASSOCIATES INC  
ENGINEERS - PLANNERS - SURVEYORS  
211 W WACKER DRVT CHICAGO, IL 60606  
TELEPHONE 312-372-2023

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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**SHEET NO. INDEX OF SHEETS**

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21	STRUCTURAL STEEL - SN 071-0062 (SB) & 0063 (NB)
22	BEARING DETAILS - SN 071-0062 (SB) & 0063 (NB)
23-25	TYPICAL PAVEMENT MARKINGS (DISTRICT STANDARD 41.1)
26	PAINTING DETAILS (DISTRICT STANDARD 44.1)

**LIST OF ILLINOIS DOT HIGHWAY 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
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS
701101-03	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701400-06	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-07	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701451-01	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS

**LIST OF ILLINOIS TOLLWAY HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
D5-03	PERMANENT PAVEMENT MARKINGS
D6-01	PAVEMENT MARKING AND SHOULDER RUMBLE STRIP DETAILS
D8-00	RAISED PAVEMENT LANE MARKER
E1-02	CONSTRUCTION SIGNS
E2-02	LANE CLOSURE DETAILS
E3-02	SHOULDER CLOSURE DETAILS
E5-02	TEMPORARY GORE DETAILS

**GENERAL NOTES**

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USES(S):	SHOULDER SURFACE
PG:	PG-58-22
DESIGN AIR VOIDS	3.0% AT N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5
FRICTION AGGREGATE	MIX C
20 YEAR ESAL	NA
MIX UNIT WEIGHT	112 LB/SY/IN

THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAYS PRODUCTIVITY, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

INSTALL RUMBLE STRIPS IN ALL SHOULDERS IN ACCORDANCE WITH STATE STANDARD 642001. RUMBLE STRIPS SHALL BE PLACED ON SHOULDERS ON BOTH SIDES OF THE PAVEMENT.

CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.

TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

RELOCATE TEMPORARY IMPACT ATTENUATORS WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATION. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

THE CONTRACTOR SHALL SECURE A PERMIT FROM THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY PRIOR TO STARTING ANY WORK ON THE TOLLWAY RIGHT-OF-WAY.

THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A PERMIT FROM THE ILLINOIS STATE TOLL HIGHWAY TO REQUEST A LOCATE OF TOLLWAY FACILITIES FOR THE PLACEMENT OF TRAFFIC CONTROL SIGNS AND TO PLACE TRAFFIC CONTROL ON TOLLWAY PROPERTY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT.

PRIOR TO THE IMPLEMENTATION OF THE MAINTENANCE OF TRAFFIC, A 21 DAY ADVANCE COORDINATION MEETING SHOULD BE HELD BETWEEN IDOT, THE IDOT CONSTRUCTION MANAGER (RE), THE TOLLWAY AND THE CONTRACTOR.

IF AN ALTERNATE TRAFFIC PATTERN IS REQUIRED WITHIN THE CONTRACT, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC DEVIATION PLAN, 21 DAYS PRIOR TO THE CHANGES FOR APPROVAL BY THE TOLLWAY AND IDOT. IN ADDITION, THE CONTRACTOR IS REQUIRED TO ATTEND A MAINTENANCE OF TRAFFIC MEETING ARRANGED BY THE TOLLWAY CONSTRUCTION MANAGER WITH REPRESENTATIVES FROM THE TOLLWAY TO REVIEW THE PROPOSED CHANGES IN THE MAINTENANCE OF TRAFFIC TWO (2) DAYS PRIOR TO THE IMPLEMENTATION OF THE NEW MAINTENANCE OF TRAFFIC STAGE CHANGES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NOTIFICATIONS TO THE TOLLWAY.

ALL TOLLWAY STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS SHALL ONLY APPLY TO THE TOLLWAY RIGHT OF WAY.

IN ACCORDANCE WITH ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS/HER CONSTRUCTION ACTIVITIES WITH THE CONSTRUCTION AND MAINTENANCE OPERATIONS OF OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF THE PROJECT AND ADJACENT TO THE PROJECT.

MORE SPECIFICALLY, THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE CONTRACTOR OF CONTRACT 64H73, FAI 39 (I-39) & US 88 (RONALD REAGAN MEMORIAL EXPRESSWAY) S.N. 071-0062 & S.N. 071-0063 OVER I-88, BRIDGE REHABILITATION, SECTION D2, DECK REPAIR 2013-1. THE CONTRACTOR FOR 64J27 MUST WAIT UNTIL THE SUB-STRUCTURE WORK IS COMPLETED AND ALL RAMP CLOSURES ARE REMOVED BY THE CONTRACTOR PERFORMING THE WORK IN CONTRACT 64H73 BEFORE STARTING HIS OWN WORK REQUIRING RAMP CLOSURES.

FILE NAME: D264J27-shr-index.dgn  
 PLOT DATE: 10/2/2012  
 PLOT SCALE: 100.0000 "/ IN.



DESIGNED -	G.F.L./K.R.K.	REVISED -	
DRAWN -	K.R.K.	REVISED -	
CHECKED -	E.J.M.	REVISED -	
DATE -	JULY 2012	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STATE STANDARDS, LIST OF TOLLWAY STANDARDS AND GENERAL NOTES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	2
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY	
NOTE BOOK	
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SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION CODE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0014 BRIDGE REPAIR 100% STATE		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MX "C", N50	TON	90	90		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	800	800		
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1800	1800		
67100100	MOBILIZATION	L SUM	1	1		
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	4	4		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1560	1560		
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	14100	14100		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4700	4700		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	512.5	512.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1287.5	1287.5		
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2350	2350		

\* SPECIALTY ITEM

FILE NAME • 0264J27-shr-50001.dgn  
 PLOT DATE • 9/6/2012  
 PLOT SCALE • 100.0000 ' / IN.

**CR & A**  
 CHRISTIAN-ROGE & ASSOCIATES, INC.  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60605  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L./K.R.K.	REVISED -
DRAWN - K.R.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - JULY 2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 I-39 OVER I-88

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	02 BRIDGE PAINTING 2013-2	OGLE	26	3
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

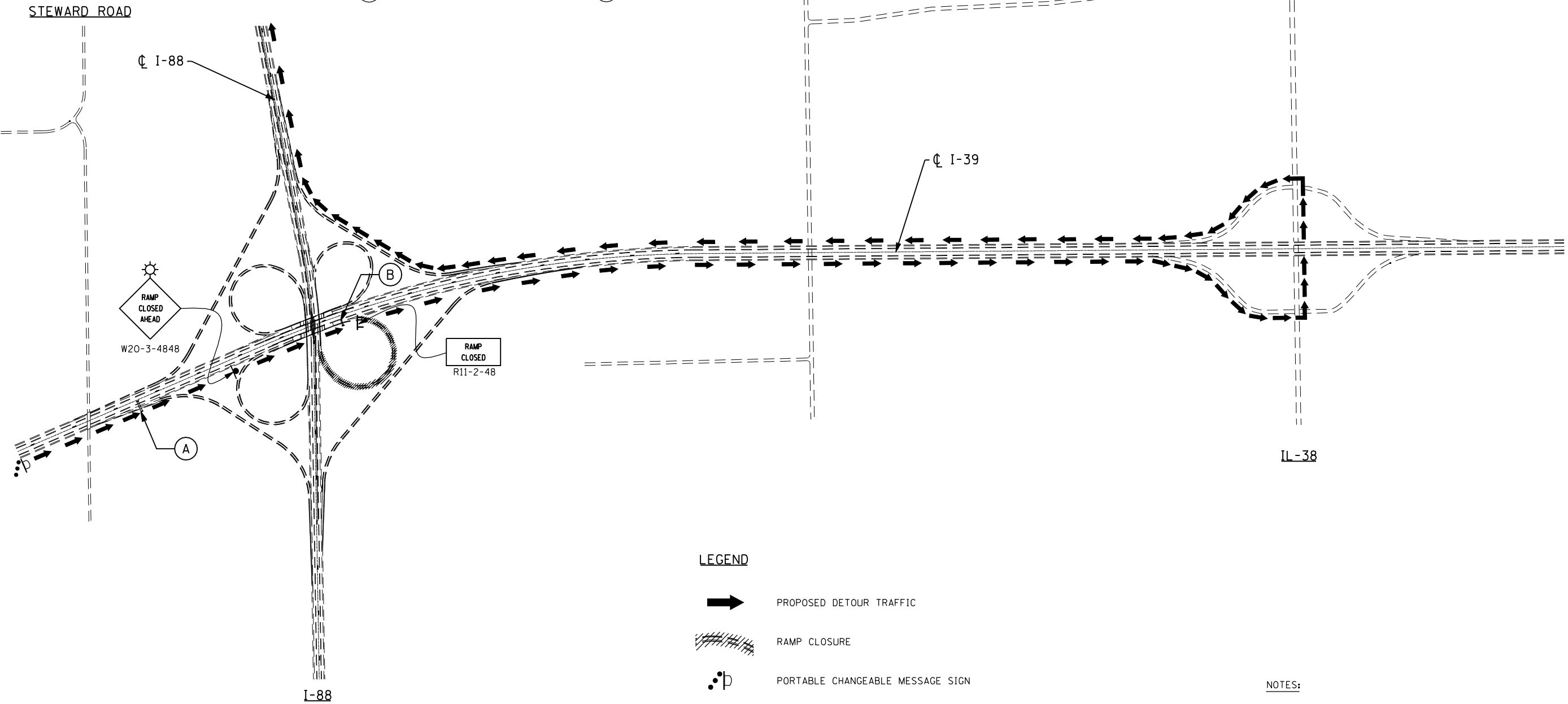
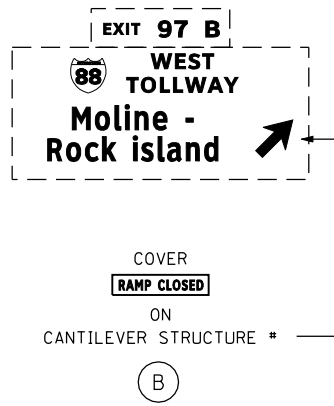
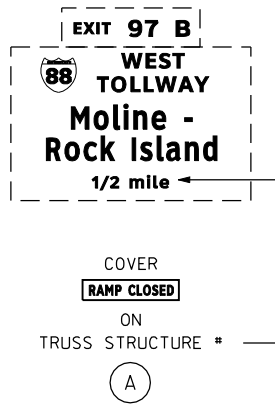
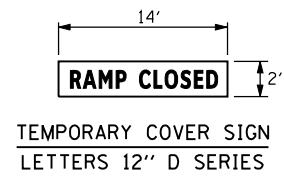






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- LEGEND**
- PROPOSED DETOUR TRAFFIC
  - RAMP CLOSURE
  - PORTABLE CHANGEABLE MESSAGE SIGN

**NOTES:**  
 1. FOR RAMP CLOSURE DETAILS SEE SHEET NO'S 9 & 10.

**CR & A**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
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 211 WEST WACKER DRIVE  
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 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - JULY 2012	REVISED -

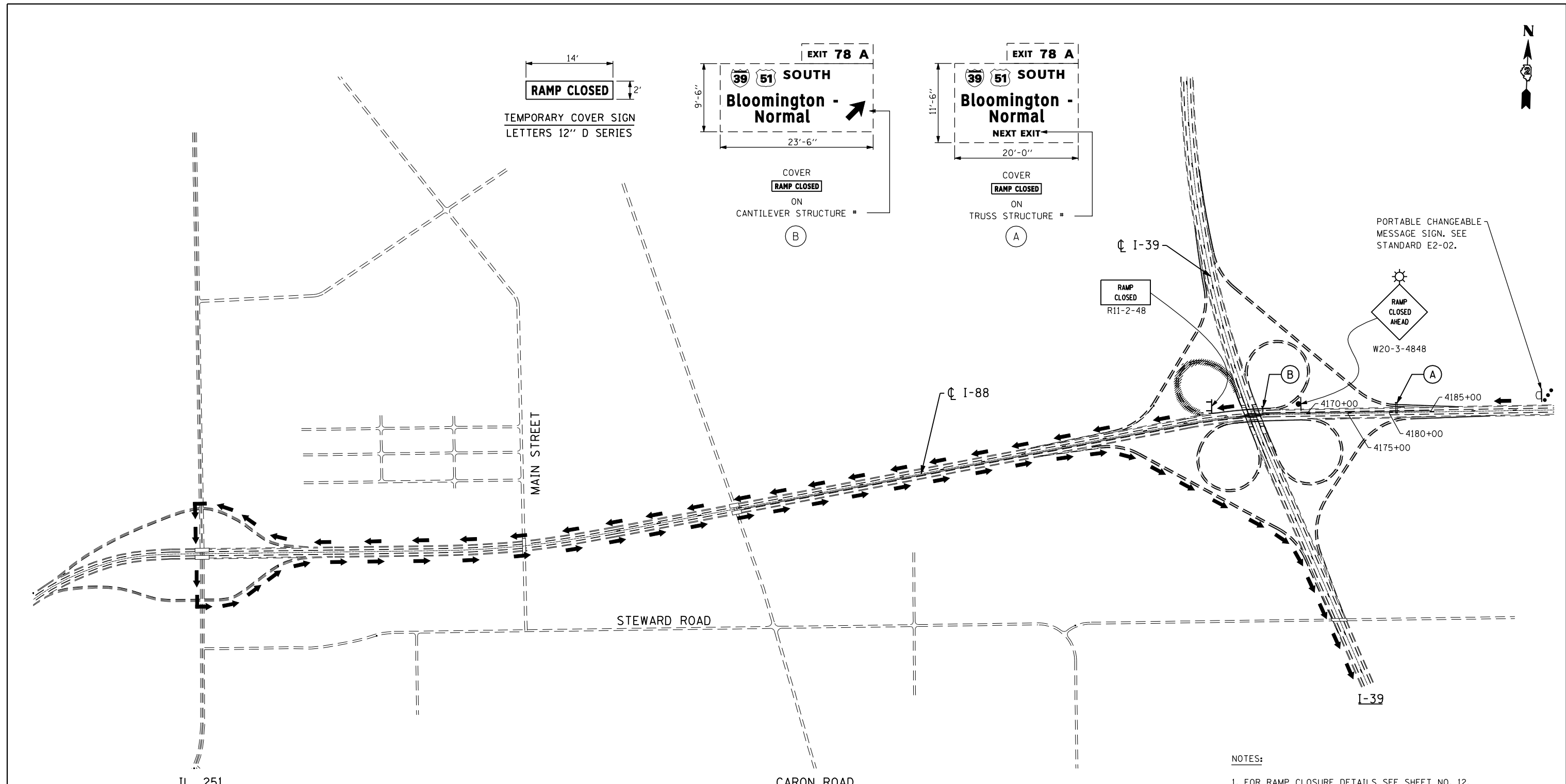
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DETOUR PLAN</b>			
<b>I-88 AT I-39</b>			
<b>RAMP CLOSURE - STAGE I</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	6
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY	
NOTE BOOK	
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NOTES:  
1. FOR RAMP CLOSURE DETAILS SEE SHEET NO. 12.

LEGEND  
 PROPOSED DETOUR TRAFFIC  
 RAMP CLOSURE

FILE NAME = #FILES\*  
 PLOT DATE = #DATE\*  
 PLOT SCALE = #SCALE\*

**CR & A**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED -	G.F.L.	REVISED -	
DRAWN -	B.K.	REVISED -	
CHECKED -	E.J.M.	REVISED -	
DATE -	AUGUST 2012	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

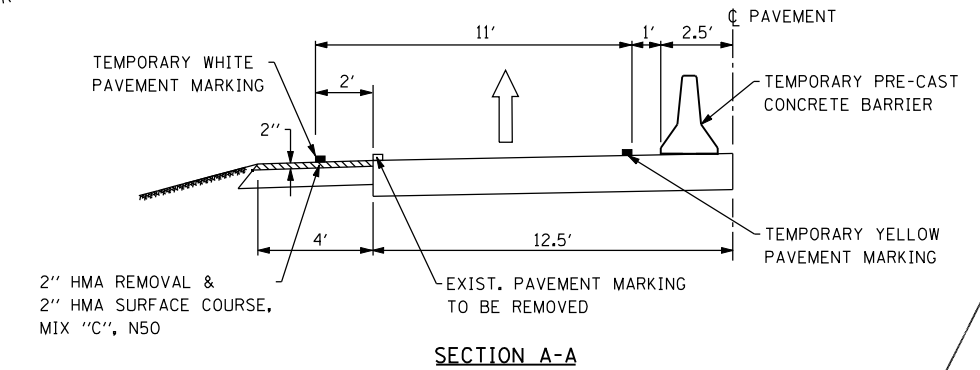
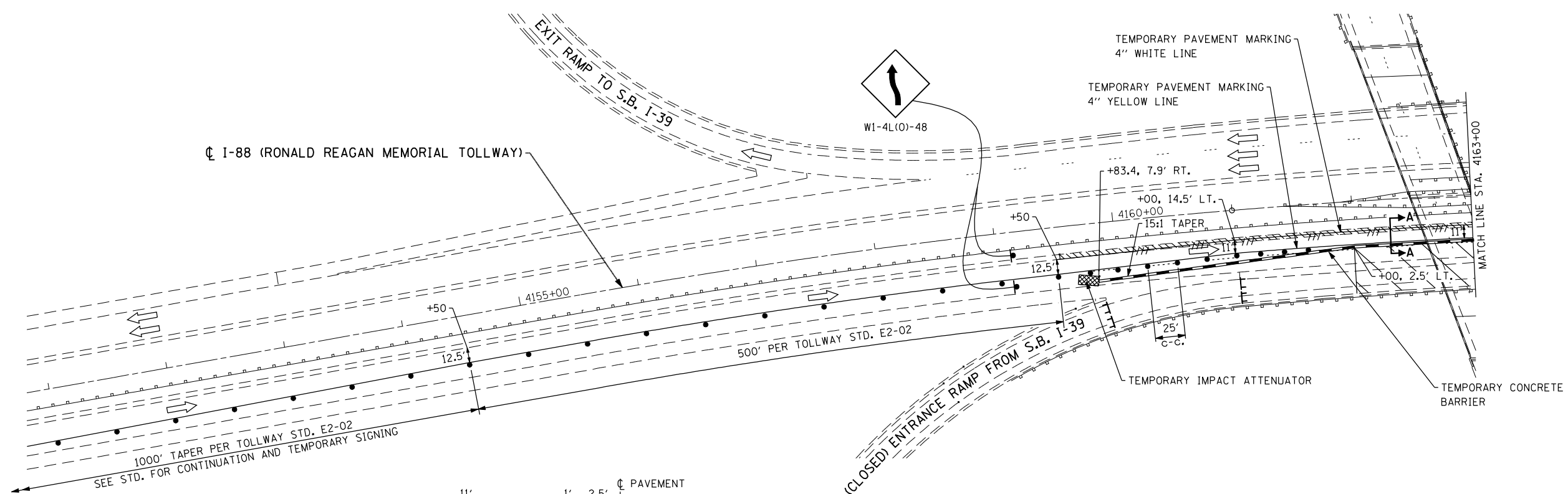
**DETOUR PLAN**  
**I-39 OVER I-88**  
**RAMP CLOSURE - STAGE II**

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

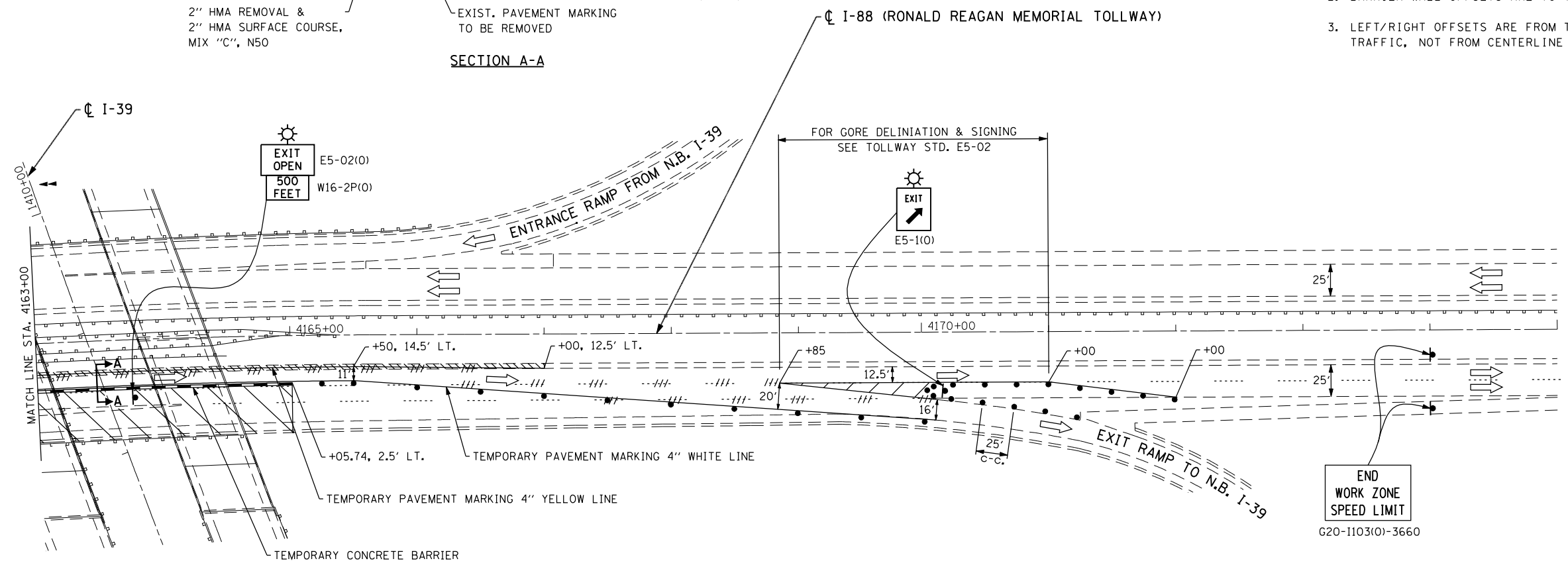
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 DECK REPAIR 2013-1	OGLE	32	7
CONTRACT NO. 64H73				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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AREAS CHECKED	

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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



- NOTE:**
1. TRAFFIC CONTROL AND PROTECTION FOR WORK ON THE TOLLWAY (I-88), SHOWN IN STAGES I-IV, SHALL BE PAID FOR UNDER ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701402". TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATOR AND TEMPORARY PAVEMENT MARKINGS WILL BE PAID FOR SEPARATELY.
  2. BARRIER WALL OFFSETS ARE TO THE TRAFFIC SIDE OF THE WALL.
  3. LEFT/RIGHT OFFSETS ARE FROM THE CENTERLINE OF EACH DIRECTION OF TRAFFIC, NOT FROM CENTERLINE OF ROADWAY.



**LEGEND**

	PROPOSED HMA SURFACE REMOVAL, 2" HMA SURFACE COURSE, MIX 'C', N50, 2"
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
	TRAFFIC FLOW ARROW
	WORK ZONE
	DRUMS SPACED AT INTERVALS AS NOTED
	PAVEMENT MARKING REMOVAL
	TEMPORARY SIGN WITH MESSAGE

FILE NAME = sht-stagel.01 I-88.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED -	E.M.	REVISED -	
DRAWN -	B.K.	REVISED -	
CHECKED -	G.F.L.	REVISED -	
DATE -	JULY 2012	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION**  
**I-88 UNDER I-39**  
**STAGE I**

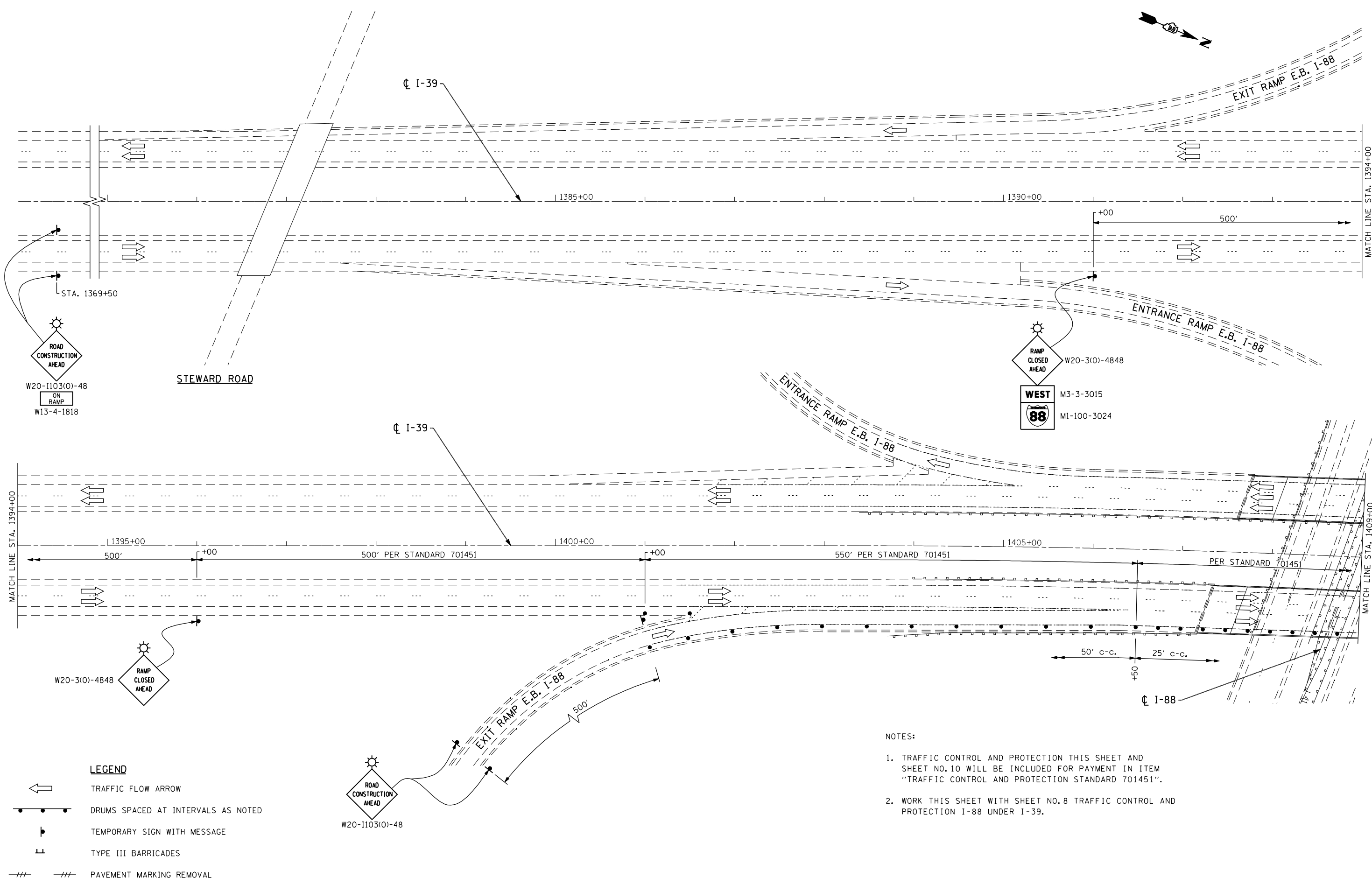
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	8
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
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ORIGINAL SURVEY	
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**LEGEND**

- TRAFFIC FLOW ARROW
- DRUMS SPACED AT INTERVALS AS NOTED
- TEMPORARY SIGN WITH MESSAGE
- TYPE III BARRICADES
- PAVEMENT MARKING REMOVAL

**NOTES:**

1. TRAFFIC CONTROL AND PROTECTION THIS SHEET AND SHEET NO.10 WILL BE INCLUDED FOR PAYMENT IN ITEM "TRAFFIC CONTROL AND PROTECTION STANDARD 701451".
2. WORK THIS SHEET WITH SHEET NO.8 TRAFFIC CONTROL AND PROTECTION I-88 UNDER I-39.

FILE NAME = sht-stagel.01 I-39.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
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CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

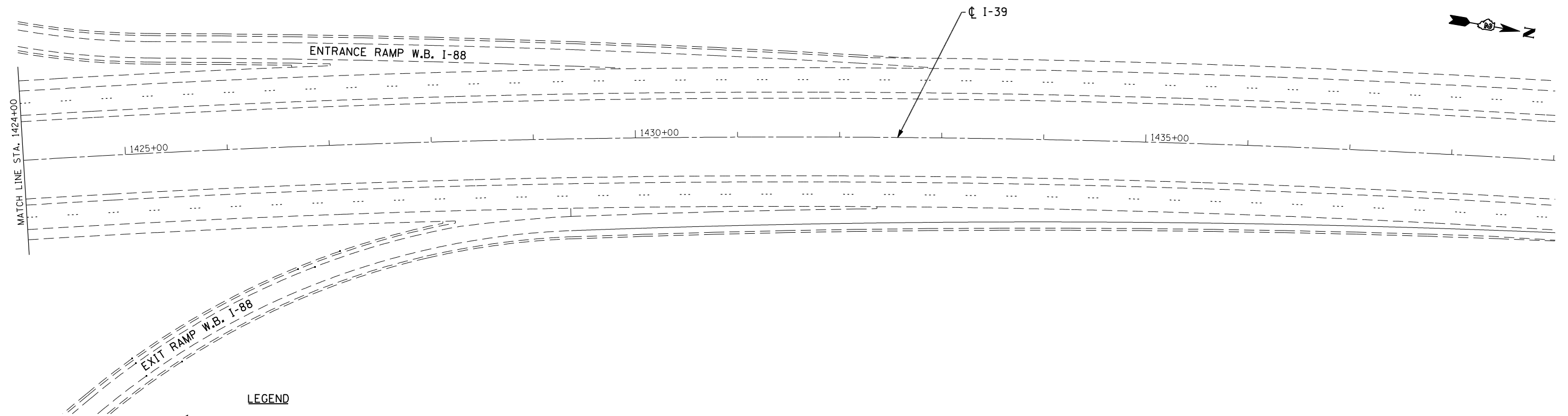
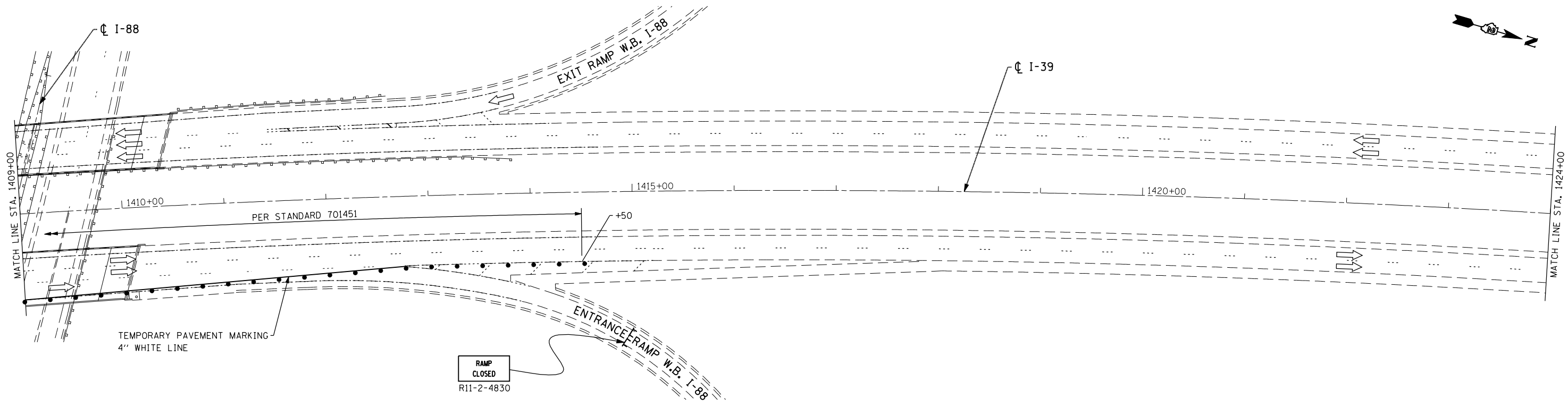
**TRAFFIC CONTROL AND PROTECTION  
 STAGE I  
 I-39 OVER I-88**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	9
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



- LEGEND**
- TRAFFIC FLOW ARROW
  - DRUMS SPACED AT INTERVALS AS NOTED
  - TEMPORARY SIGN WITH MESSAGE
  - TYPE III BARRICADES
  - PAVEMENT MARKING REMOVAL

FILE NAME = sht-stagel.02 I-39.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - E.M.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - G.F.L.	REVISED -
DATE - JULY 2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

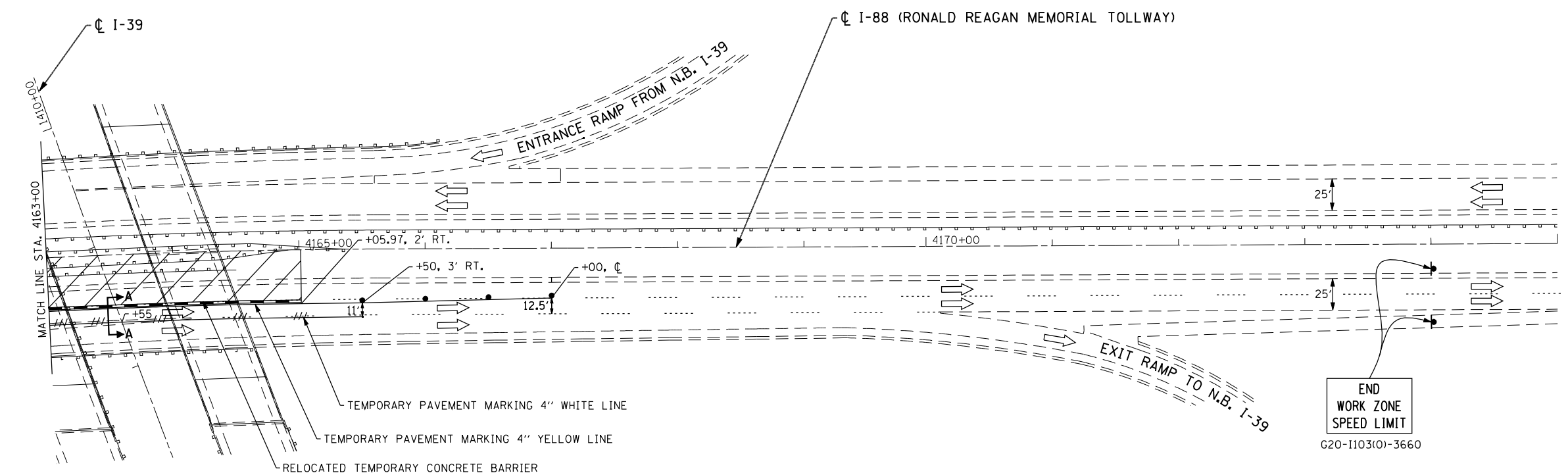
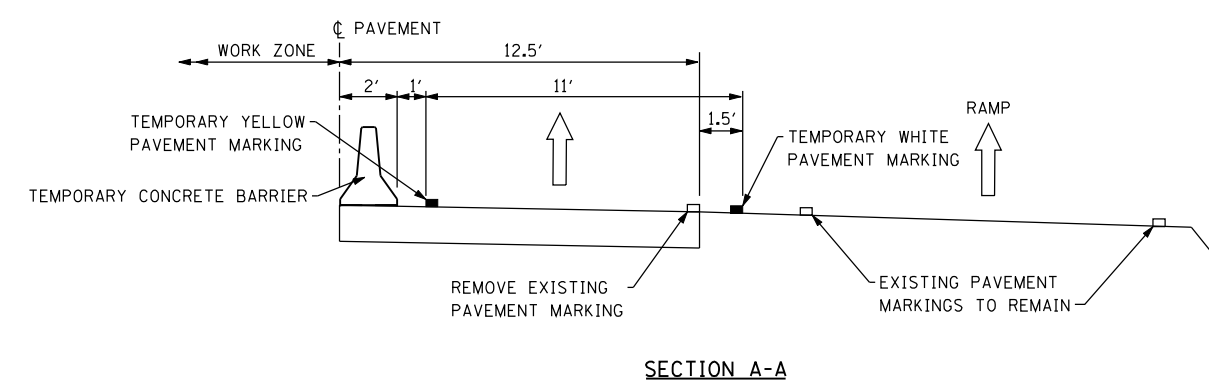
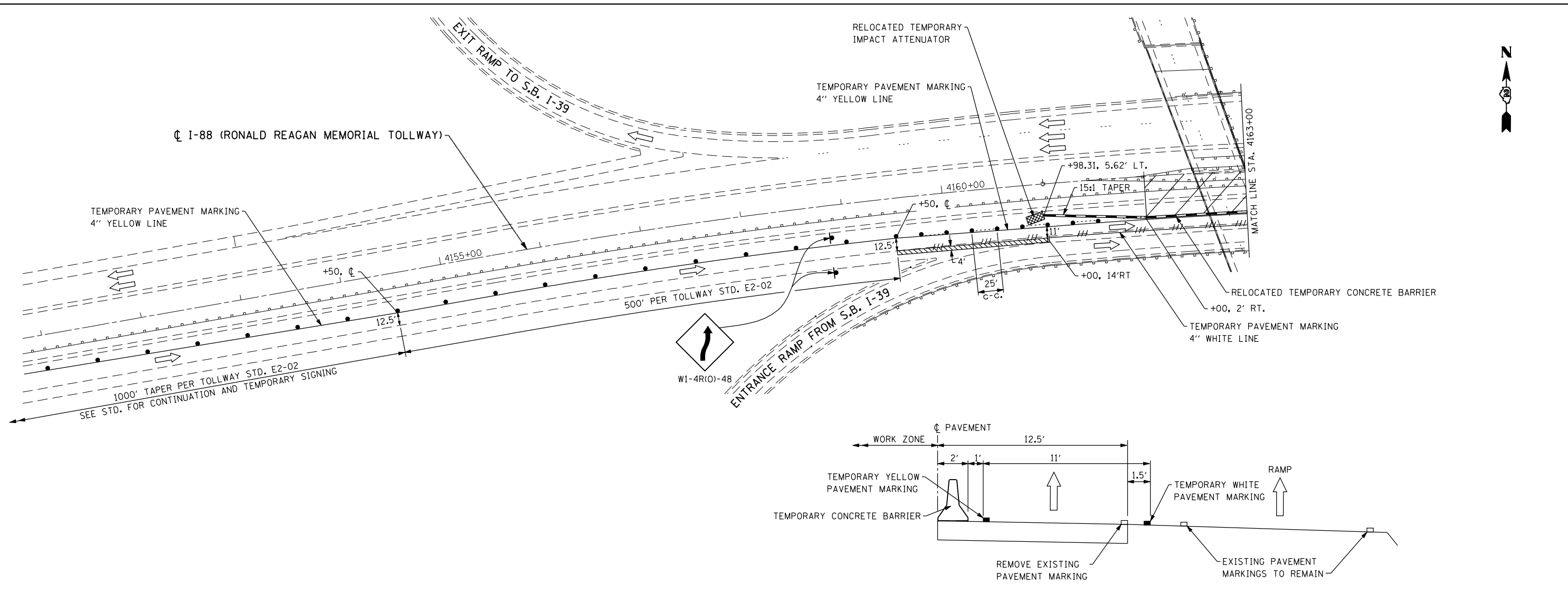
**TRAFFIC CONTROL AND PROTECTION  
 STAGE I  
 I-39 OVER I-88**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	10
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



**LEGEND**

- PROPOSED HMA SURFACE REMOVAL, 2" HMA SURFACE COURSE, MIX 'C', N50, 2"
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TRAFFIC FLOW ARROW
- WORK ZONE
- DRUMS SPACED AT INTERVALS AS NOTED
- PAVEMENT MARKING REMOVAL
- TEMPORARY SIGN WITH MESSAGE

FILE NAME = sht-stage2.01 I-88.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

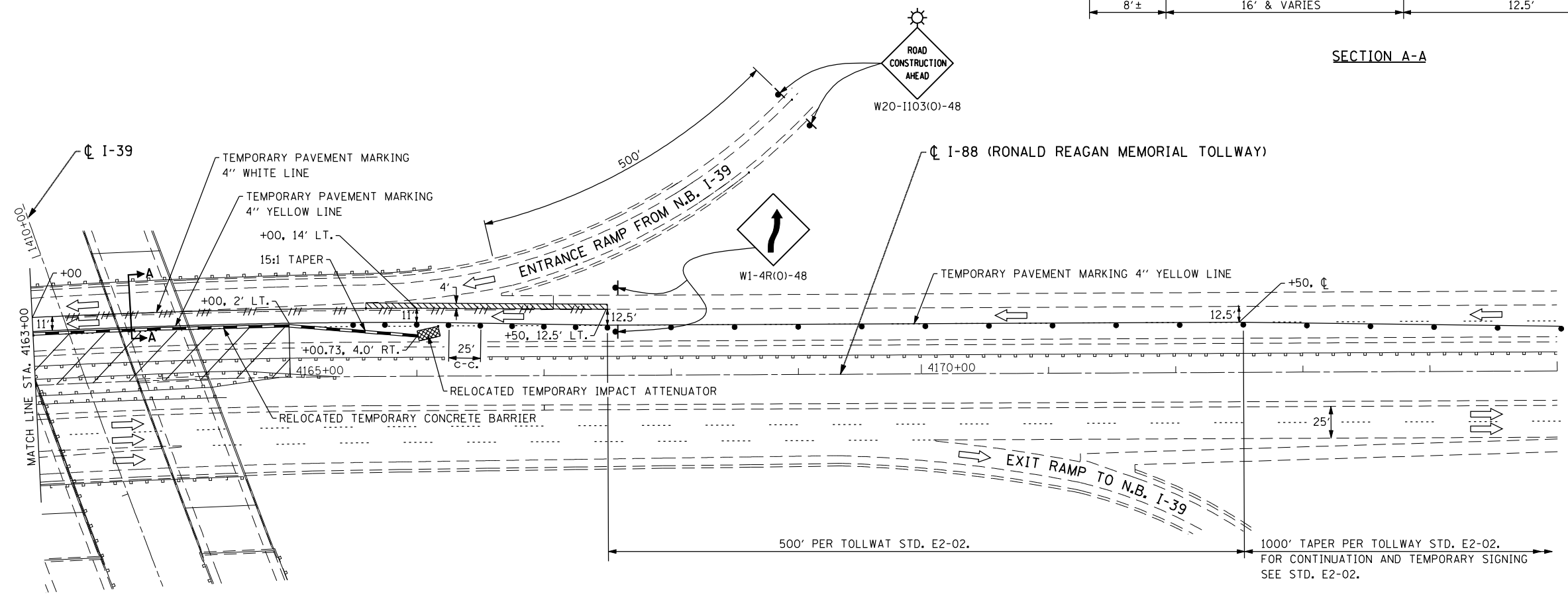
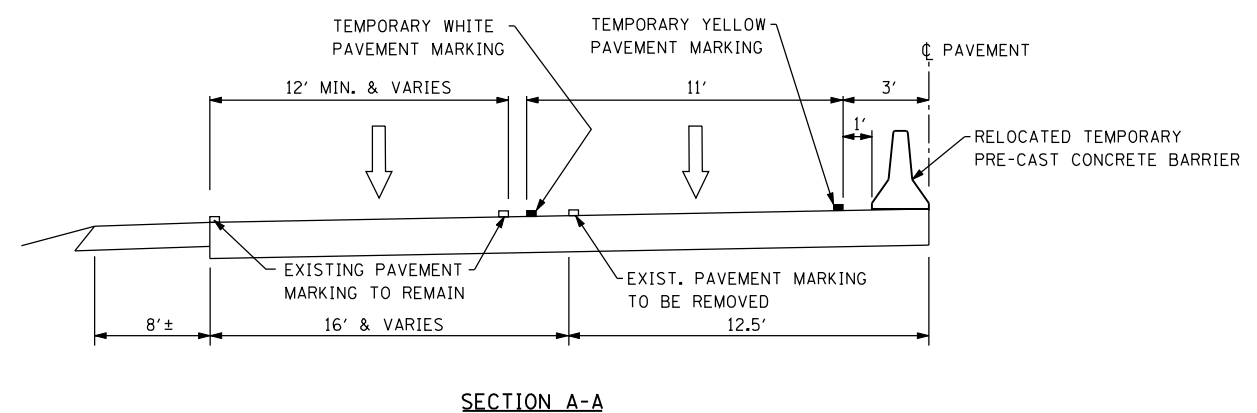
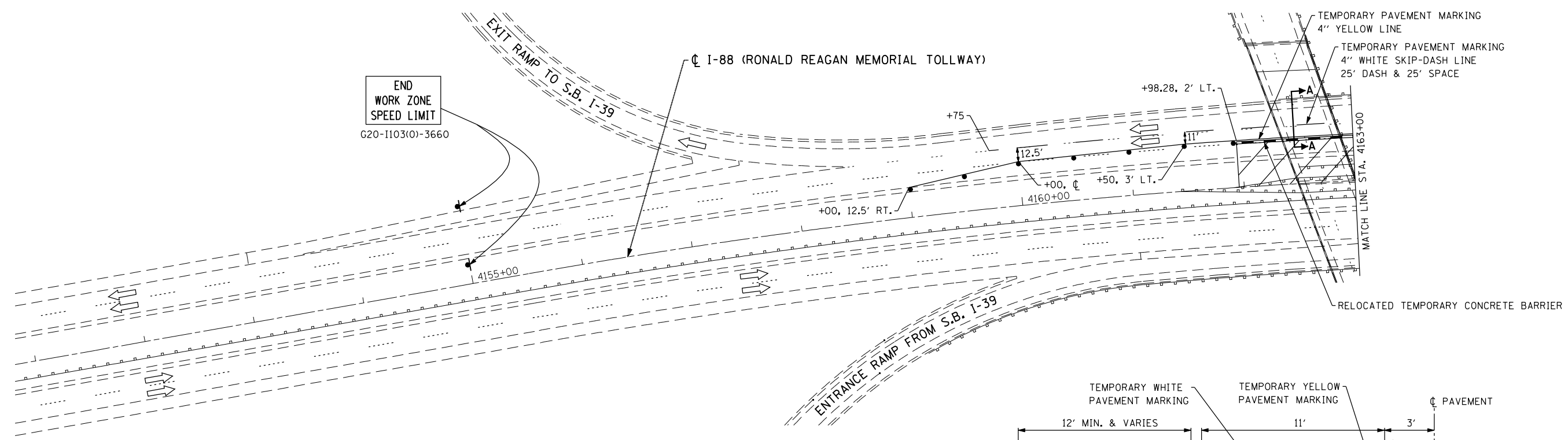
**TRAFFIC CONTROL AND PROTECTION**  
**I-88 UNDER I-39**  
**STAGE II**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	11
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



**LEGEND**

- PROPOSED HMA SURFACE REMOVAL, 2" HMA SURFACE COURSE, MIX 'C', N50, 2"
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TRAFFIC FLOW ARROW
- WORK ZONE
- DRUMS SPACED AT INTERVALS AS NOTED
- PAVEMENT MARKING REMOVAL
- TEMPORARY SIGN WITH MESSAGE

FILE NAME = sht-stage3.01 I-88.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

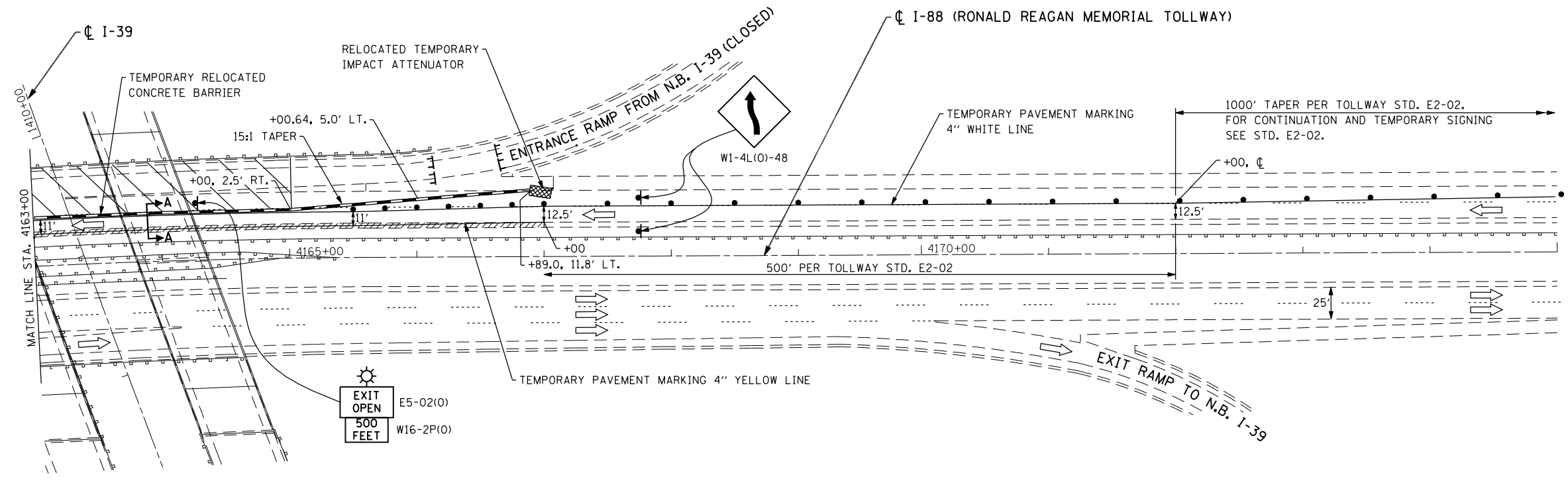
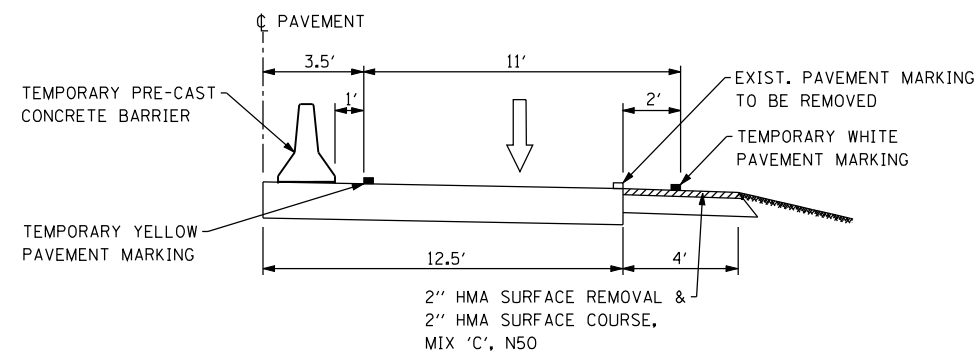
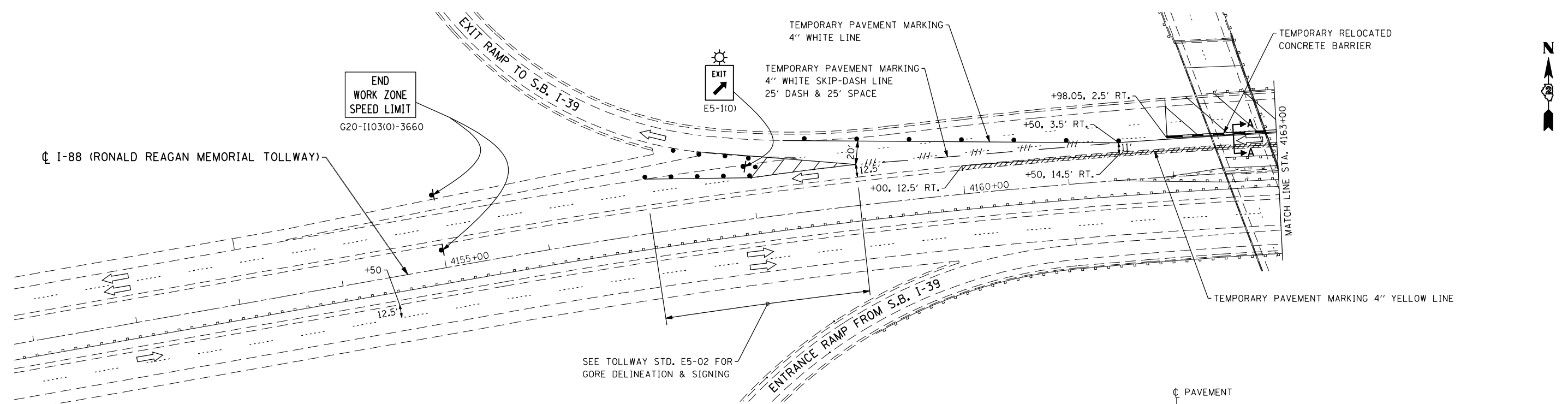
**TRAFFIC CONTROL AND PROTECTION  
 I-88 UNDER I-39  
 STAGE III**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	12
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	



**LEGEND**

- PROPOSED HMA SURFACE REMOVAL, 2" HMA SURFACE COURSE, MIX 'C', N50, 2"
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TRAFFIC FLOW ARROW
- WORK ZONE
- DRUMS SPACED AT INTERVALS AS NOTED
- PAVEMENT MARKING REMOVAL
- TEMPORARY SIGN WITH MESSAGE

FILE NAME = sht-stage4\_01 I-88.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

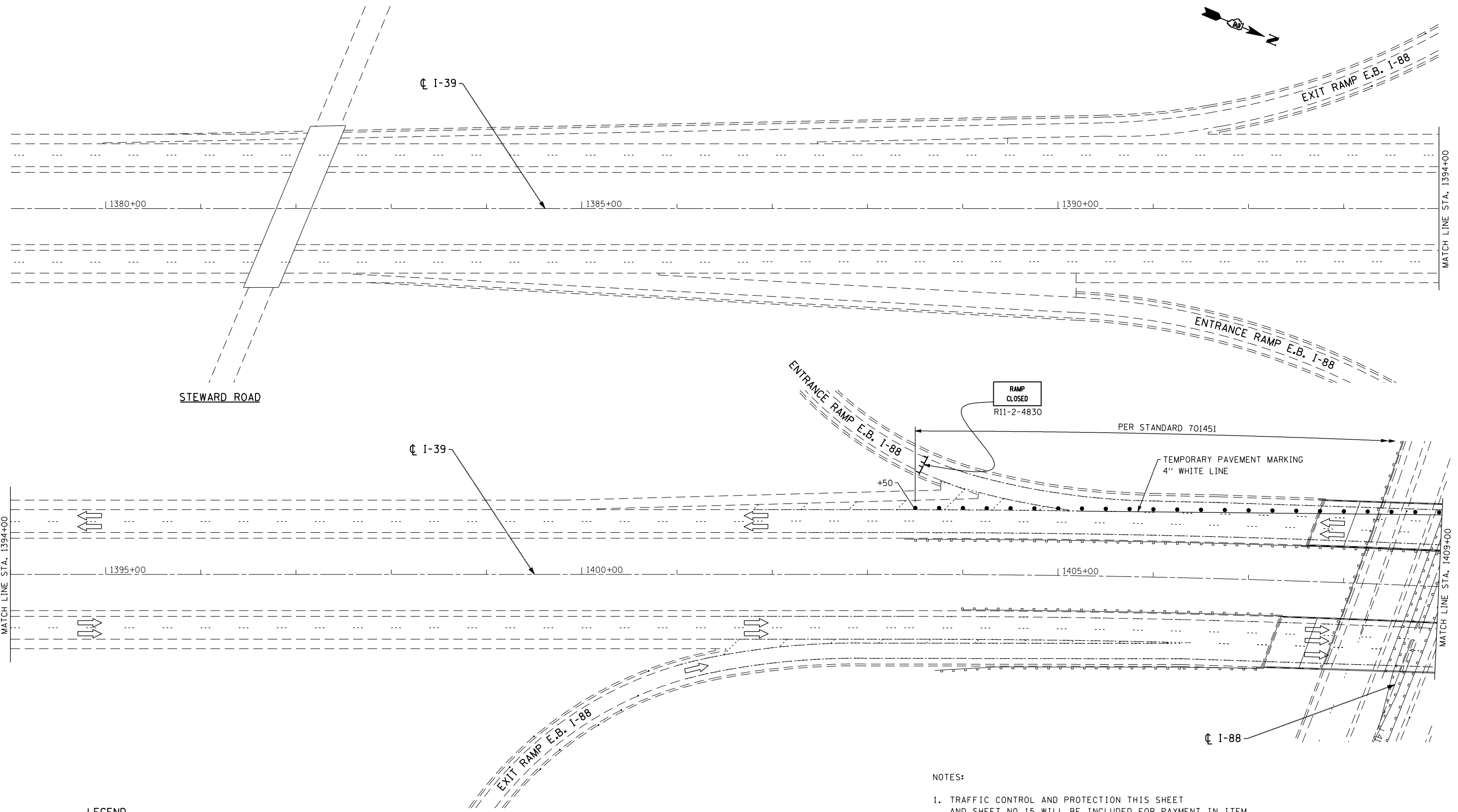
**TRAFFIC CONTROL AND PROTECTION**  
**I-88 UNDER I-39**  
**STAGE IV**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	13
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



**LEGEND**

- TRAFFIC FLOW ARROW
- DRUMS SPACED AT INTERVALS AS NOTED
- TEMPORARY SIGN WITH MESSAGE
- TYPE III BARRICADES
- PAVEMENT MARKING REMOVAL

**NOTES:**

1. TRAFFIC CONTROL AND PROTECTION THIS SHEET AND SHEET NO.15 WILL BE INCLUDED FOR PAYMENT IN ITEM "TRAFFIC CONTROL AND PROTECTION STANDARD 701451".
2. WORK THIS SHEET WITH SHEET NO.13 TRAFFIC CONTROL AND PROTECTION I-88 UNDER I-39.

FILE NAME = sht-stage4\_01 I-39.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - E.M.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - G.F.L.	REVISED -
DATE - JULY 2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

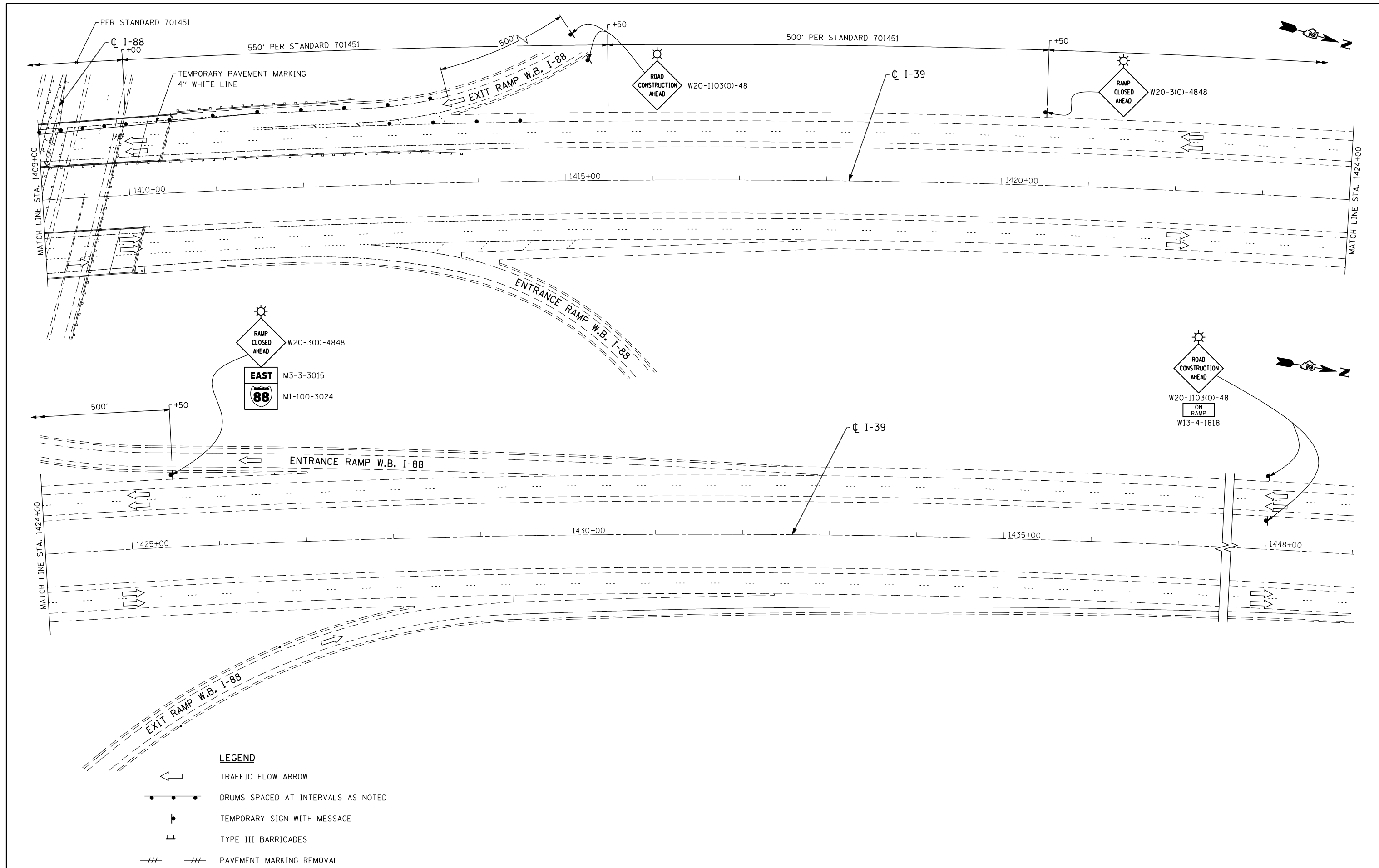
**TRAFFIC CONTROL AND PROTECTION  
 STAGE IV  
 I-39 OVER I-88**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	14
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



- LEGEND**
- TRAFFIC FLOW ARROW
  - DRUMS SPACED AT INTERVALS AS NOTED
  - TEMPORARY SIGN WITH MESSAGE
  - TYPE III BARRICADES
  - PAVEMENT MARKING REMOVAL

FILE NAME = sht-stage4.02 I-39.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED	- E.M.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	- G.F.L.	REVISED	-
DATE	- JULY 2012	REVISED	-

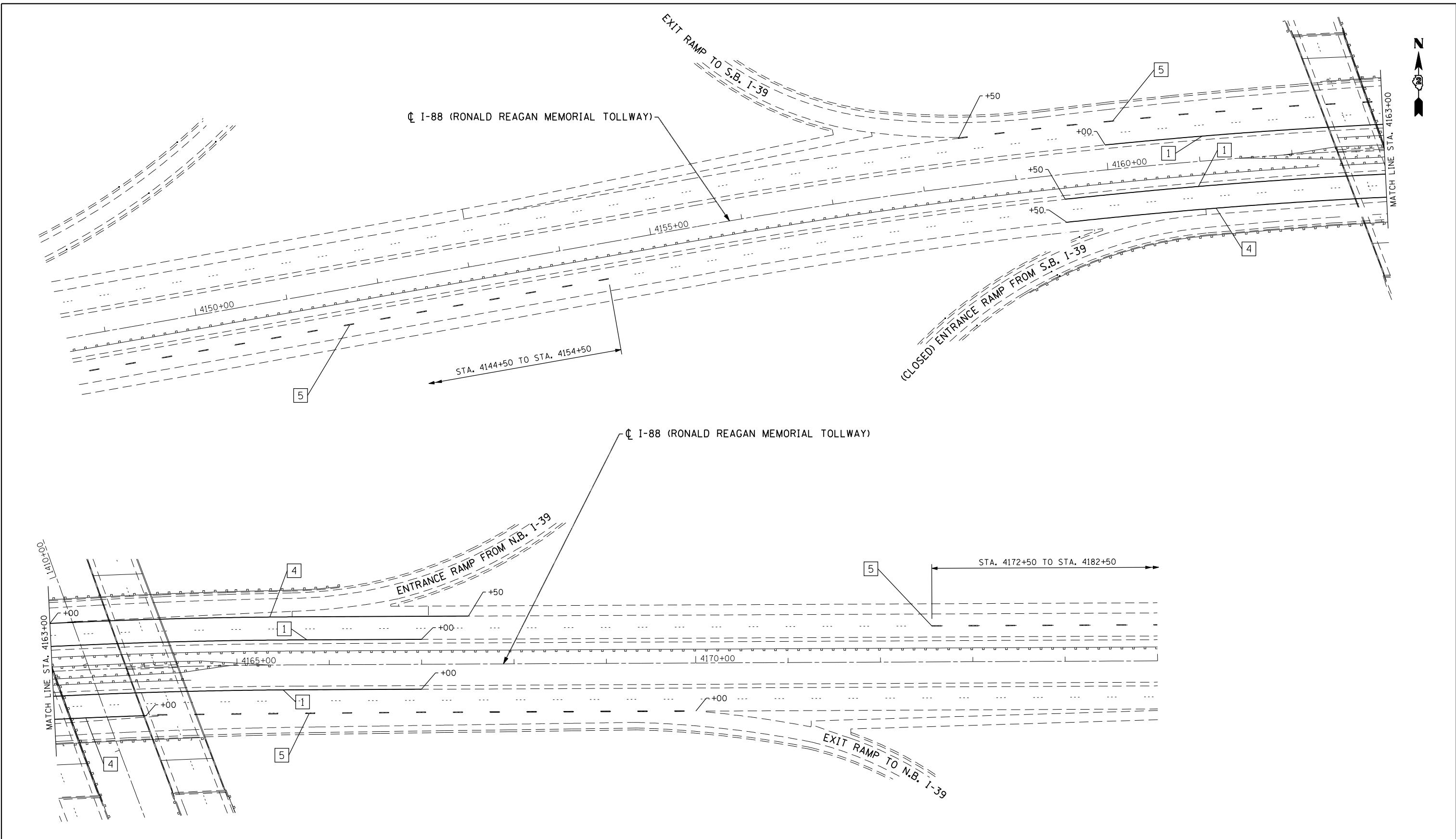
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION				
STAGE IV				
I-39 OVER I-88				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	15
				CONTRACT NO. 64J27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



**LEGEND**

- |   |  |                                    |
|---|--|------------------------------------|
| 1 LINE 4" (YELLOW SOLID LINE)           | 5 LINE 6" (WHITE LANE LINE - 25' DASH, 25' SKIP) | 9 LINE 12" (YELLOW SOLID LINE)     |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES)   | 6 LINE 6" (WHITE SOLID LINE)                     | 10 LINE 12" (YELLOW DIAGONAL LINE) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)   | 11 LINE 12" (WHITE SOLID LINE)     |
| 4 LINE 4" (WHITE SOLID LINE)            | 8 LINE 8" (WHITE SOLID LINE)                     | 12 LINE 12" (WHITE DIAGONAL LINE)  |
|   |  | 13 LINE 24" (WHITE STOP BAR)       |
|   |  | 14 LETTERS AND SYMBOLS (TYP.)      |

**NOTES:**

1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA UNLESS OTHERWISE SPECIFIED.

FILE NAME = sht:pm I-88.dgn  
 PLOT DATE = 9/6/2012  
 PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - E.M.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - G.F.L.	REVISED -
DATE - JULY 2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN			
I-88 UNDER I-39			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

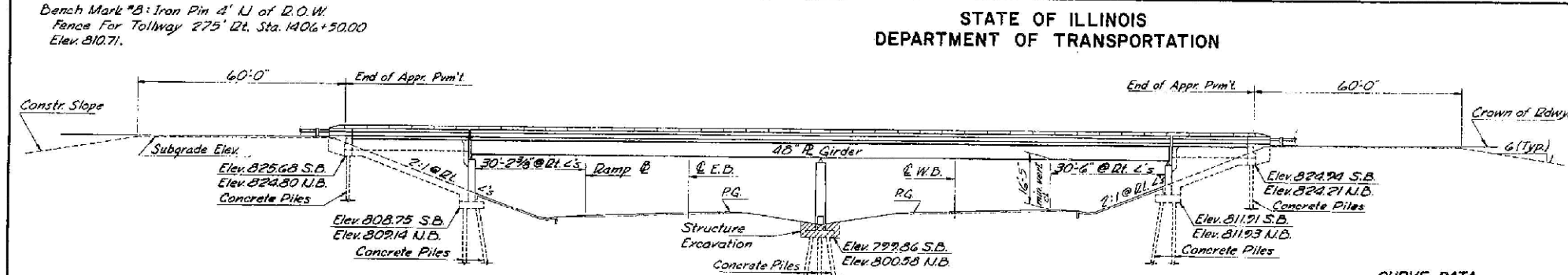
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	16
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



# FOR INFORMATION ONLY

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 412	141-1A	OGLE	628	196
ILLINOIS PROJECT			SHEET NO. 1	
FED. ROAD DIST. NO. 7			28 SHEETS	



**NOTE ON INTERRUPTION OF TRAFFIC**

The Contractor shall schedule his work (especially the structural steel erection) so as to interfere as little as possible with the flow of traffic on the tollway. One lane in each direction may be closed (with necessary signing) when required, as approved by the Engineer. The remaining lane may be closed a maximum of 30 minutes in a two hour period, with the Engineer's approval of the construction schedule and the provisions for signing and flagmen.

**CURVE DATA**

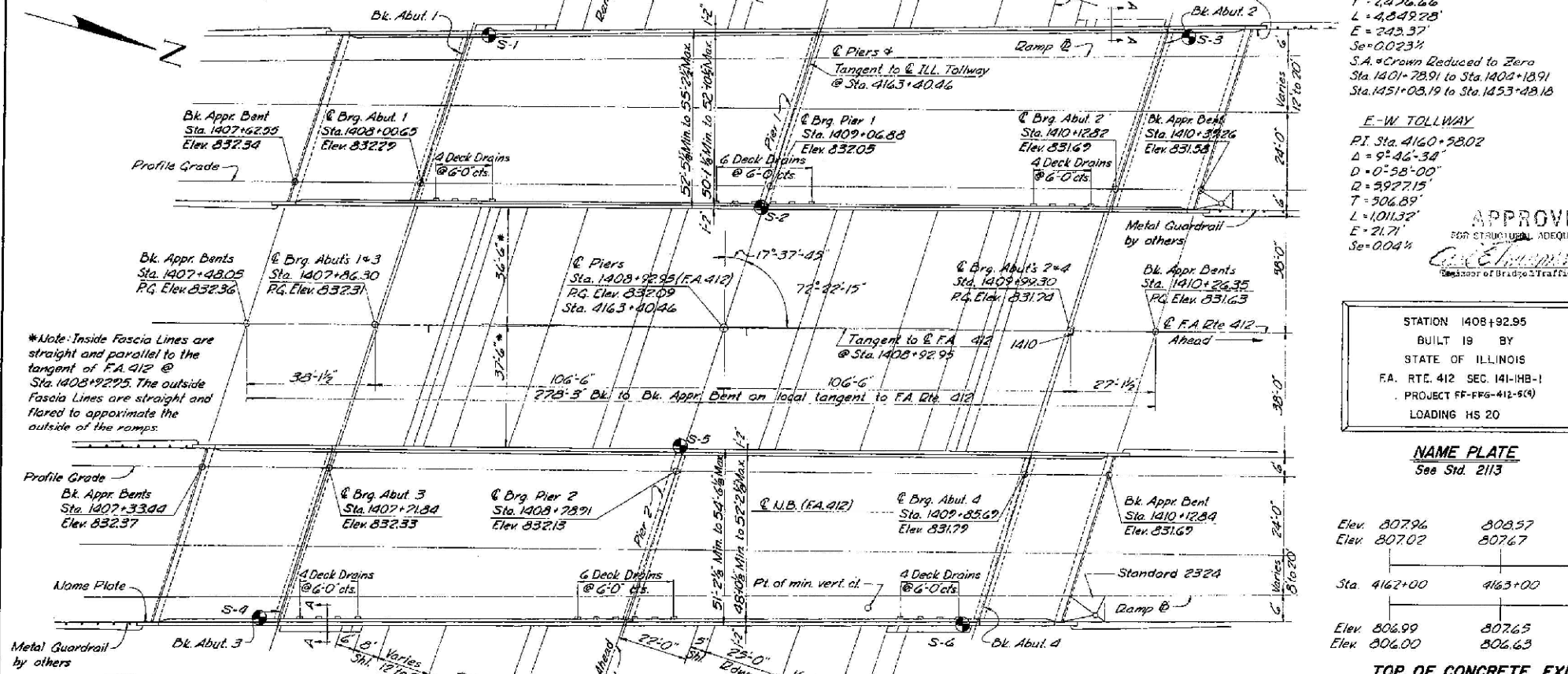
\*FA RTE 412

PI. Sta. 1427+95.57  
Δ = 22° 37' 48"  
D = 0° 28' 00"  
Q = 12277.667'  
T = 2436.66'  
L = 4049.28'  
E = 243.37'  
Se = 0.023%

S.A. = Crown Reduced to Zero  
Sta. 1401+78.91 to Sta. 1402+18.91  
Sta. 1451+08.19 to Sta. 1453+48.18

**E-W TOLLWAY**

PI. Sta. 1460+28.02  
Δ = 9° 46' 34"  
D = 0° 58' 00"  
Q = 2827.15'  
T = 506.89'  
L = 1011.32'  
E = 21.71'  
Se = 0.04%



**TOTAL BILL OF MATERIALS**

ITEM	UNIT	SUPER	SUB.	TOTAL
Structure Excavation	Cu. Yd.		250	250
Class X Concrete	Cu. Yd.	2124	770.5	1682.5
Structural Steel	Lump Sum	0.44		0.44
Reinforcement Bars	Lbs.	239,000	236,200	332,620
Concrete Piles	Lin. Ft.		7806	7806
Test Piles (Concrete)	Each		6	6
Slopedwall (4')	Sq. Yd.		1060	1060
Extum. Surf. Mixture D, Class I	Tons	259		259
Waterproofing Membrane Sys	Sq. Yd.	3080		3080
Preformed Joint Sealer (4')	Lin. Ft.	223		223
Stud Shear Connectors, 3/4"	Each	8400		8400
Protective Coat	Sq. Yd.	427		427
PRC. I Beam (36')	Lin. Ft.	727		727
Name Plates	Each	2		2
Aluminum Railing	Lin. Ft.	1144		1144

**APPROVED**

FOR STRUCTURAL ADEQUACY ONLY

STATE OF ILLINOIS  
FA. RTE. 412 SEC. 141-1HB-1  
PROJECT FF-FPG-412-5(9)  
LOADING HS 20

**NAME PLATE**

See Std. 2113

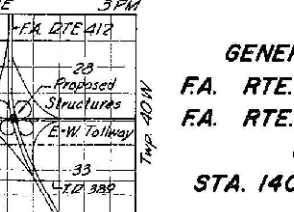
**TOP OF CONCRETE EXISTING E-W TOLLWAY**  
(From Field Survey Notes)

Elev.	807.96	808.57	809.15	809.72 (32' LT)
Elev.	807.02	807.67	808.24	808.83 (27' LT)
				W.B.
Sta.	4162+00	4163+00	4164+00	4165+00
				E.B.
Elev.	806.99	807.65	808.17	808.85 (27' RT)
Elev.	806.00	806.63	807.12	807.91 (32' RT)

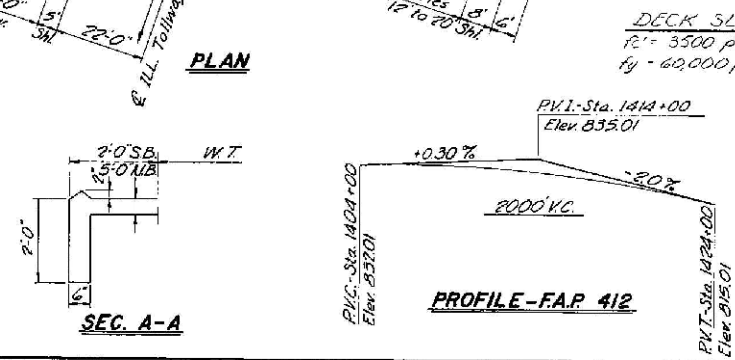
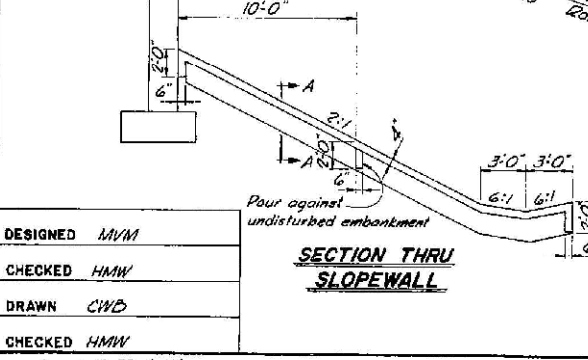
**DESIGN STRESSES**  
Field Units.

f<sub>c</sub> = 1400 psi. (Curb, Parapet, Sub. Appr. slab)  
f<sub>s</sub> = 20,000 psi. (Reinf.)  
f<sub>s</sub> = 20,000 psi. to 27,000 psi. M183 \* M223 (Struct. Grade 50)  
v<sub>c</sub> = 75 psi. (Figs.)  
n = 9  
Allowable Deflection = L/1440 or L/1200  
Allow 25% for future W.S.  
Design Specifications - 1973 AASHTO as applicable.

**LOADING HS 20-44**



**GENERAL PLAN & ELEVATION**  
FA. RTE. 412 OVER E-W TOLLWAY  
FA. RTE. 412 SECTION 141-1HB-1  
OGLE COUNTY  
STA. 1408+92.95 (F.A.P. RTE. 412)





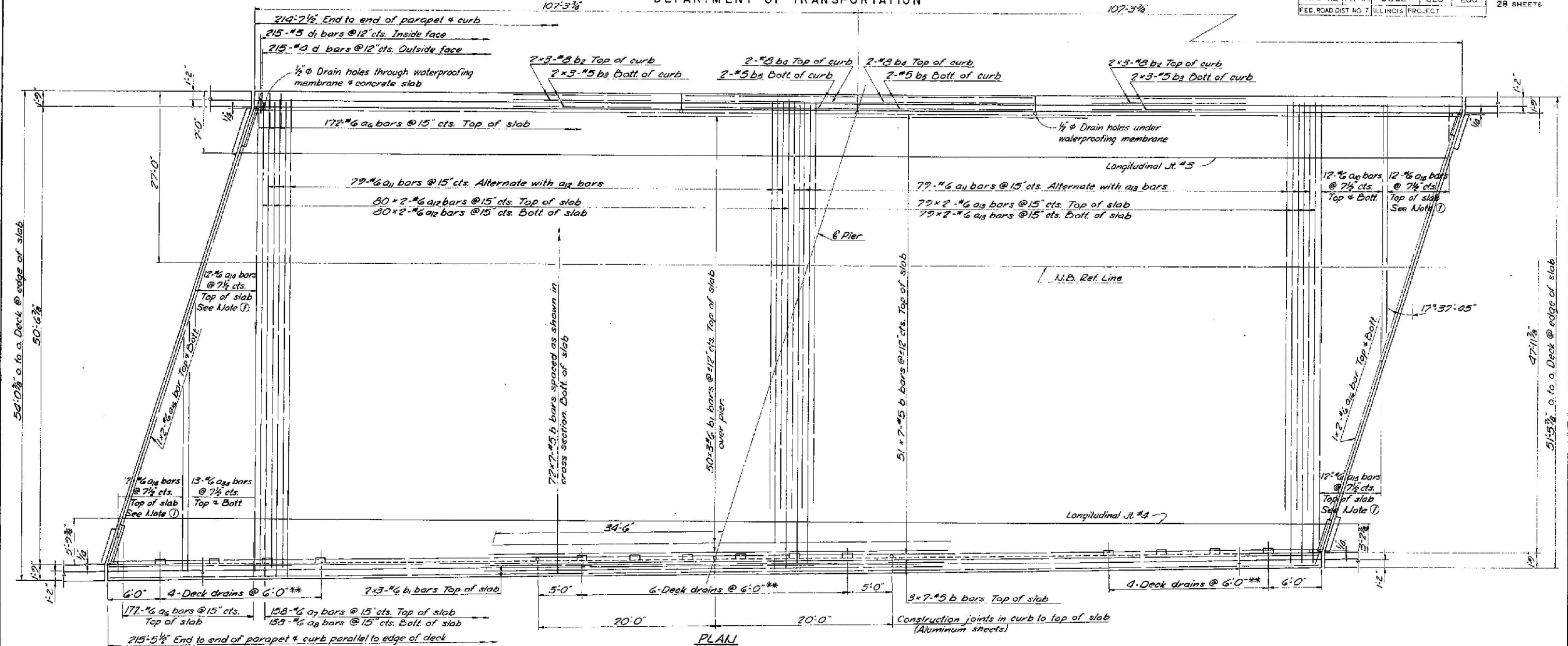
# FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 412	141-1A	OGLE	206	206
FEE ROAD DIST. NO. 7		ILLINOIS PROJECT		SHEET NO. 11
				28 SHEETS

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					

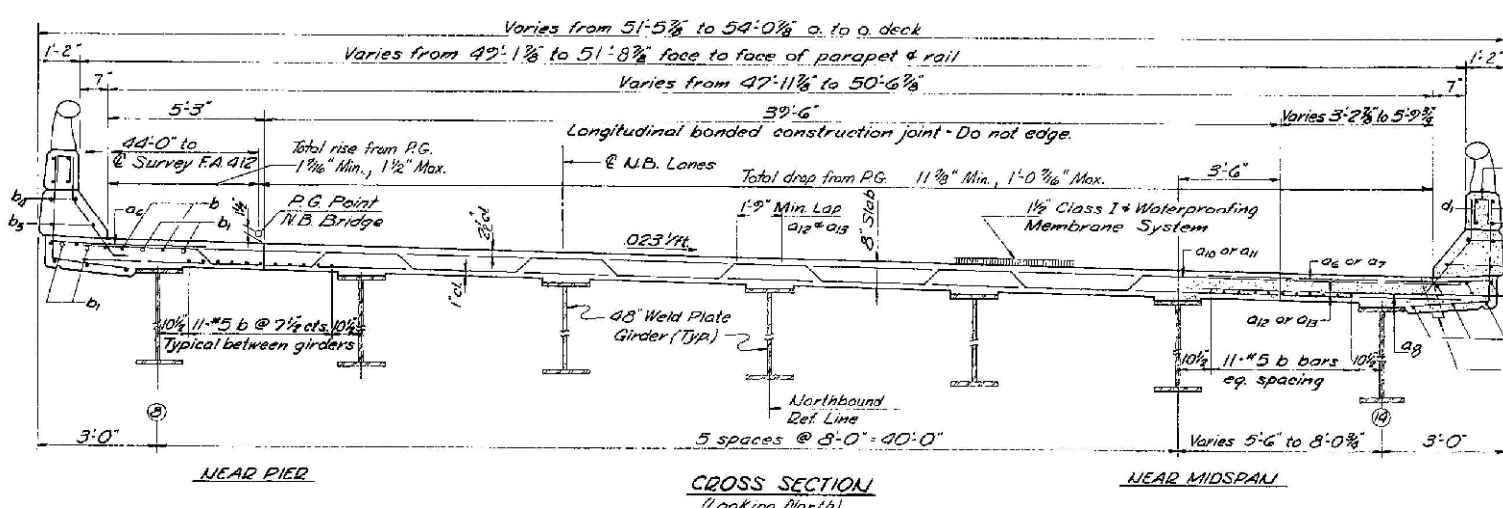
DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					



Note ①: Order a11 + a12 bars full length. Cut to fit and use remainder in bott. of slab.

\* Note: For placement of bars d3 and e2 thru e3, see sheet #13.  
\*\* Note: Deck drains on East curb only.

DESIGNED	MVM
CHECKED	HMW
DRAWN	CWB
CHECKED	HMW



For Drain Details See Sheet #12 For Spacing See Plan.

**SUPERSTRUCTURE NORTHBOUND LANE**  
F.A. RTE. 412 SEC. 141-1HB-1  
OGLE COUNTY  
STA. 1408 + 92.95 (F.A. RTE. 412)

FILE NAME = 0264J27-sht-Superstructure.NB.dwg  
PLOT DATE = 9/6/2012  
PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED	G.F.L.	REVISED	
DRAWN	K.R.K.	REVISED	
CHECKED	E.J.M.	REVISED	
DATE	JULY 2012	REVISED	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SUPERSTRUCTURE NORTHBOUND LANE</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	19
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J27	

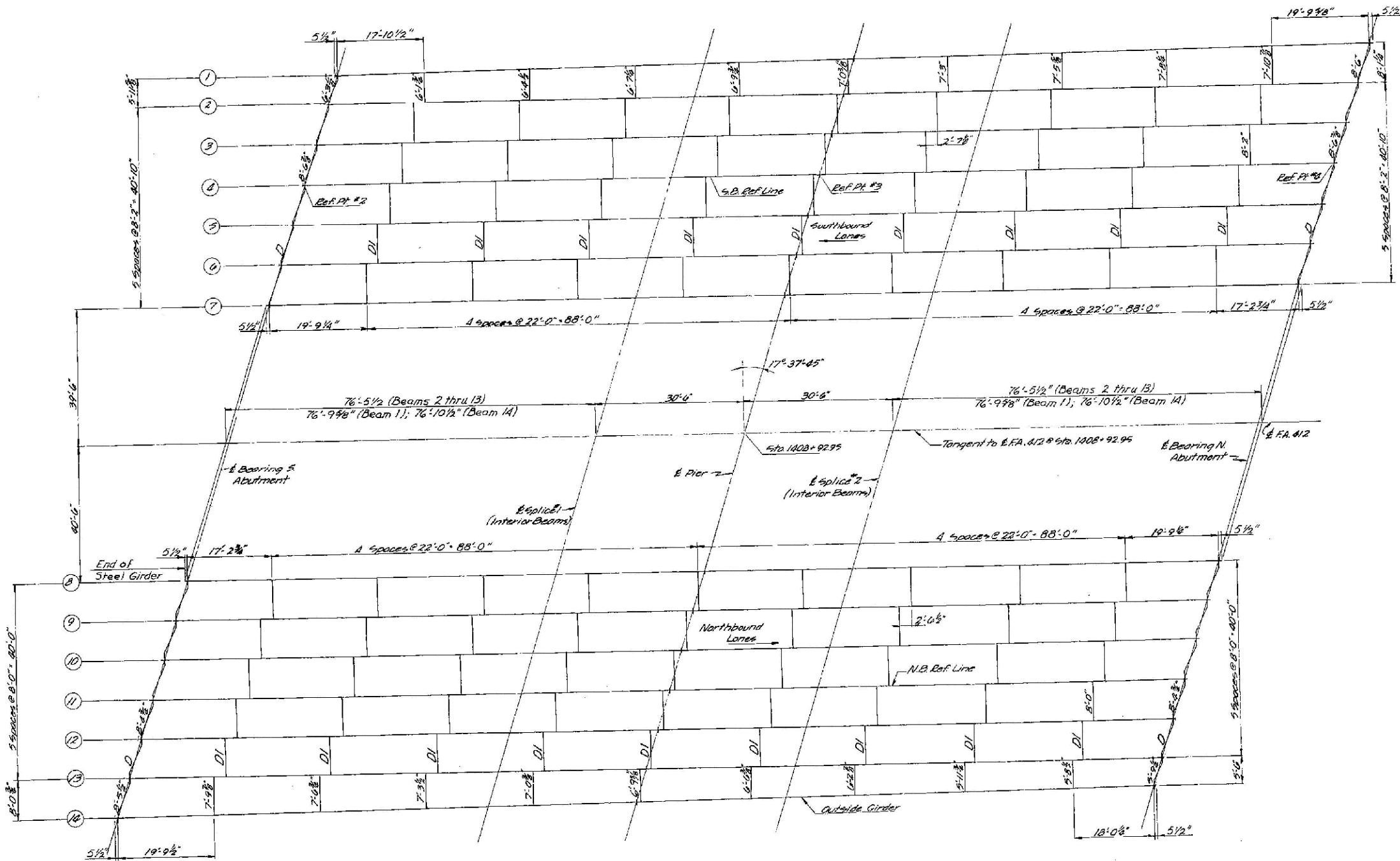
# FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. FA 412	SEC. 141-1A	COUNTY OGLE	TOTAL SHEETS 628	SHEET NO. 209	SHEET NO. 14 28 SHEETS
---------------------	----------------	----------------	---------------------	------------------	---------------------------

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					



\* Dimensions Given Represent Lengths of Diaphragm E to E Girder.

Designed	M.V.M.
Checked	H.M.W.
Drawn	W.A.I.
Checked	H.M.W.

FRAMING PLAN

FRAMING PLAN  
F.A. RTE. 412 SEC. 141-1HB-1  
OGLE COUNTY  
STA. 1408 + 92.95 (F.A. RTE. 412)

FILE NAME = 0264J27-sht-FramingPlan.dgn  
PLOT DATE = 9/6/2012  
PLOT SCALE = 100.0000' / IN.

**CR**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED -	G.F.L.	REVISED -	
DRAWN -	K.R.K.	REVISED -	
CHECKED -	E.J.M.	REVISED -	
DATE -	JULY 2012	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	20
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



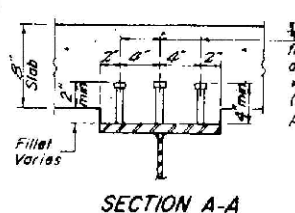
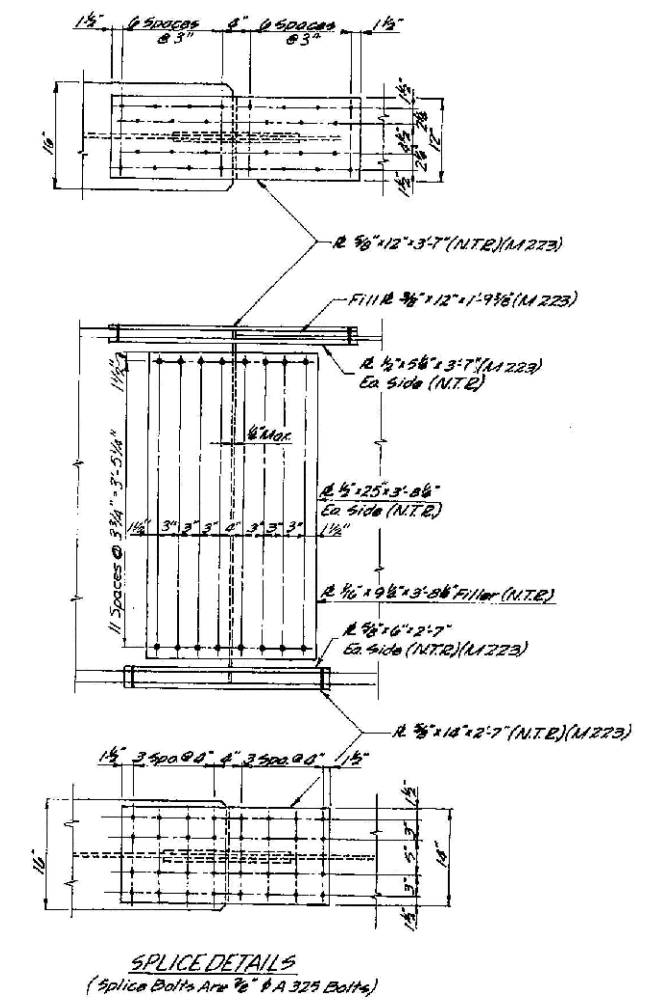
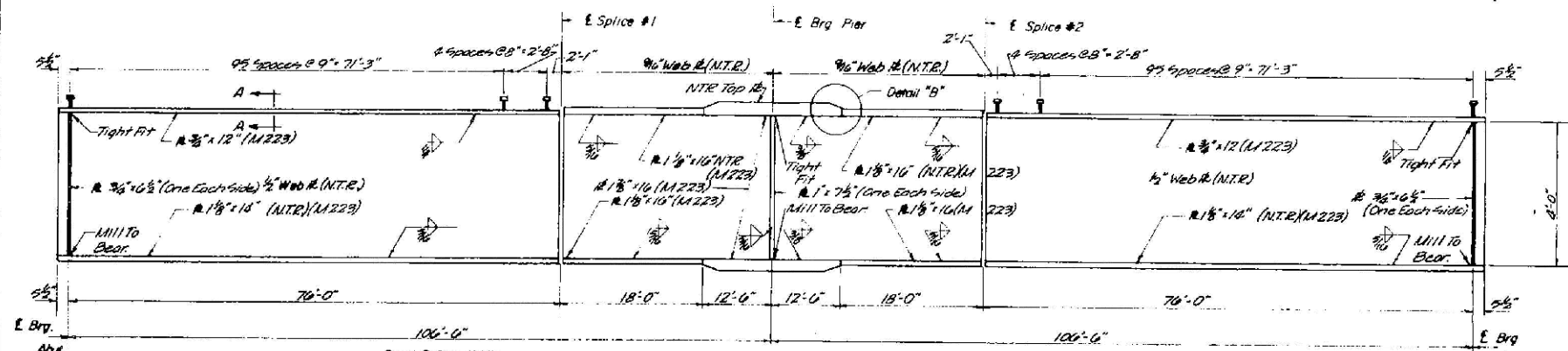
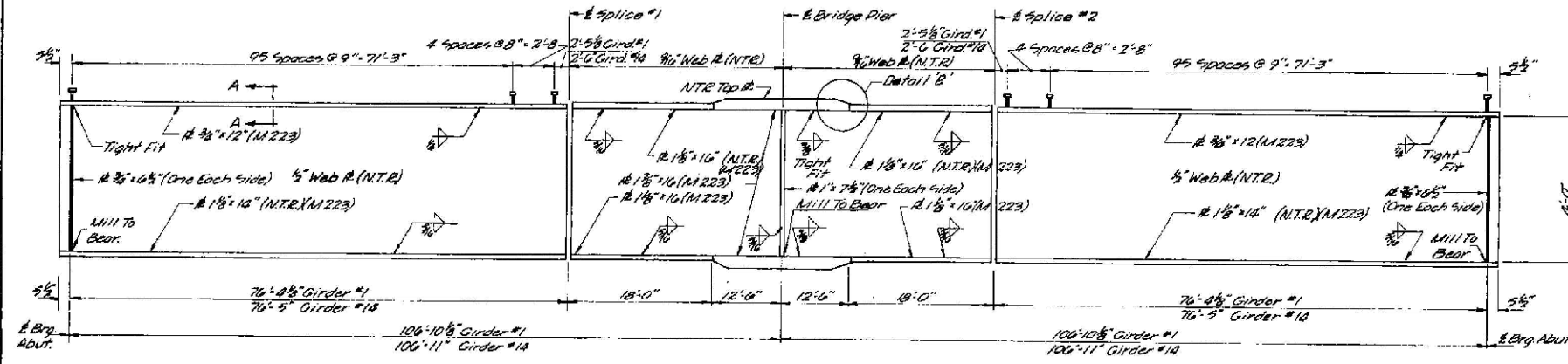
# FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

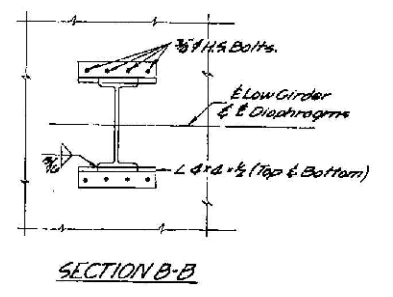
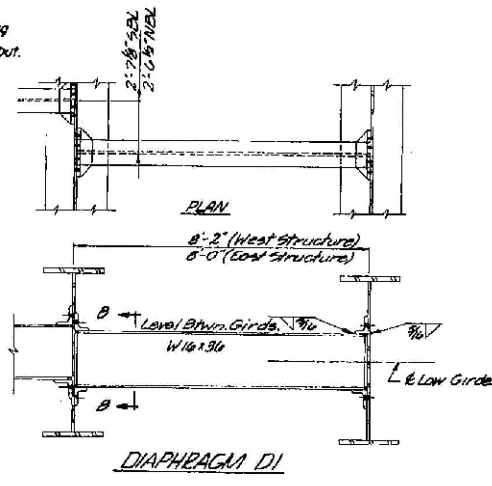
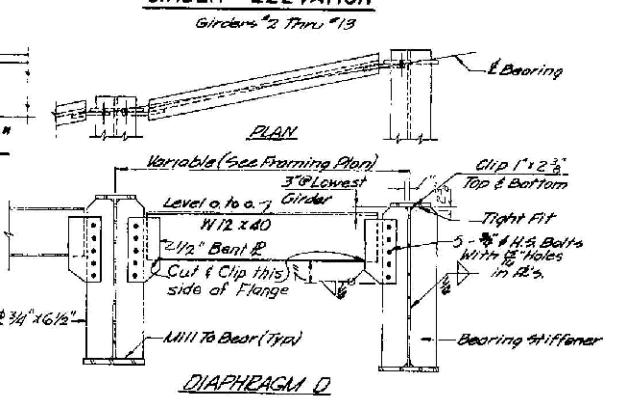
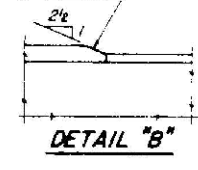
PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FA. 412	141-1A	OGLE	628	210
SHEET NO. 15 28 SHEETS				

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.					



DESIGNED	M.V.M.
CHECKED	H.M.W.
DRAWN	W.A.I.
CHECKED	H.M.W.
G-1	7-1-72



STRUCTURAL STEEL  
F.A. RTE. 412 SEC. 141-1HB-1  
OGLE COUNTY  
STA. 1408 + 92.95 (F.A. RTE. 412)

FILE NAME = 0264J27-sht-StructuralSteel.dgn  
PLOT DATE = 9/6/2012  
PLOT SCALE = 100.0000' / IN.

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED	G.F.L.	REVISED	
DRAWN	K.R.K.	REVISED	
CHECKED	E.J.M.	REVISED	
DATE	JULY 2012	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

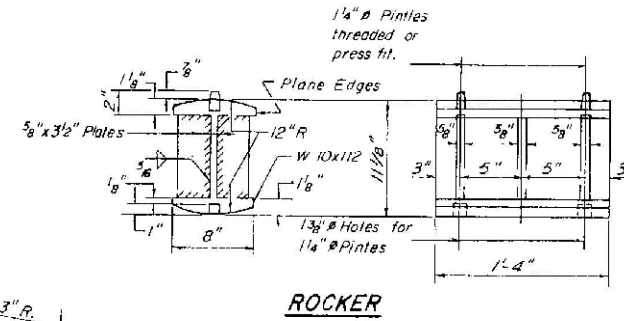
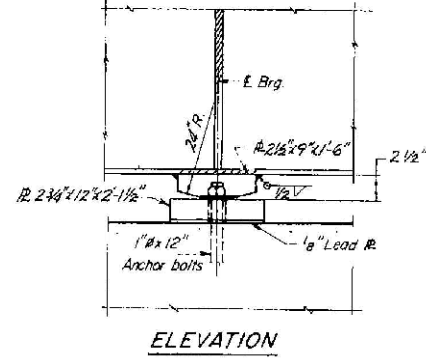
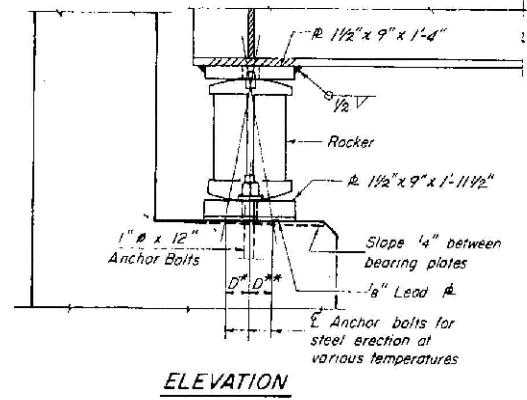
STRUCTURAL STEEL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	21
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# FOR INFORMATION ONLY

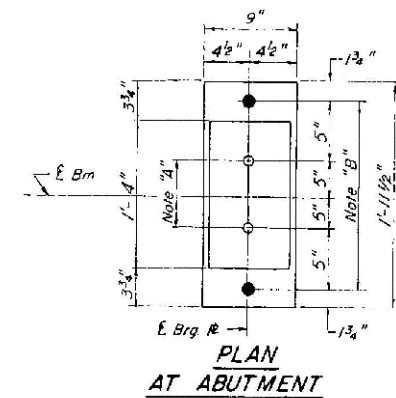
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FA. 412.141-1A	OGLE	628	211	28 SHEETS
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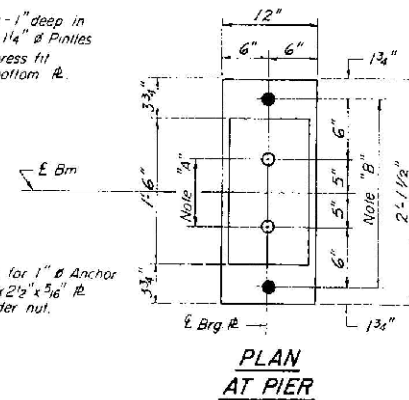


*I<sub>s</sub>* and *S<sub>s</sub>* are the moment of inertia and section modulus of the steel section. *I<sub>c</sub>* and *S<sub>c</sub>* are the moment of inertia and the section modulus of the composite section used in computing *f<sub>s</sub>*.  
*VR* is the maximum LL + impact shear range in a span.

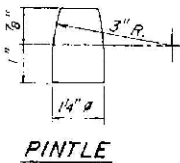
	0.4 Span 1	Pier	0.6 Span 2
<i>I<sub>s</sub></i> (in <sup>4</sup> )	18,884.2	42,514.3	18,884.2
<i>S<sub>s</sub></i> (in <sup>3</sup> )	870.68	1643.06	870.68
<i>D<sub>s</sub></i> (in)	1015.9	1146.0	1015.9
<i>M<sub>DL</sub></i> (ft-k)	6870	1767.8	6870
<i>f<sub>sDL</sub></i> (ksi)	9.47	12.91	9.47
<i>I<sub>c</sub></i> (n=30)(in <sup>4</sup> )	37,478.6	/	37,478.6
<i>S<sub>c</sub></i> (in <sup>3</sup> )	1129.52	/	1129.52
<i>S<sub>CDL</sub></i> (k/ft)	531.5	531.5	531.5
<i>M<sub>CDL</sub></i> (ft-k)	4230	751.16	4230
<i>f<sub>sCDL</sub></i> (ksi)	4.49	5.49	4.49
<i>I<sub>c</sub></i> (n=10)(in <sup>4</sup> )	51,908.8	/	51,908.8
<i>S<sub>c</sub></i> (in <sup>3</sup> )	1236.0	/	1236.0
<i>M<sub>LL</sub></i> (ft-k)	1011.6	854.0	1011.6
<i>M<sub>IMP</sub></i> (ft-k)	218.5	184.4	218.5
<i>M<sub>TOTAL</sub></i> (ft-k)	1230.1	1038.4	1230.1
<i>f<sub>sLL</sub></i> (ksi)	11.94	7.58	11.94
<i>f<sub>sTOTAL</sub></i> (ksi)	25.90	25.98	25.90
<i>VR</i>	73.5	/	73.5



Note "A"  
1 1/2" Holes - 1" deep in top R for 1 1/4" Pintles Thread or press fit pintles in bottom R.

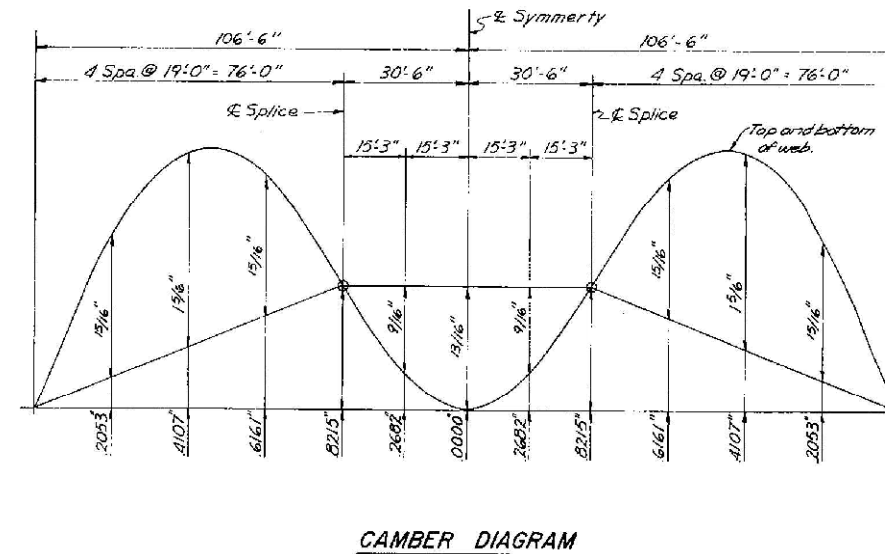


Note "B"  
1 1/2" Holes for 1" Anchor Bolts - 2 1/2" x 2 1/2" x 5/8" R Washers under nut.



**NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS**

- D\** (Side of brg away from fixed brg)  
*D\** = *b* per each 100' of expansion for every 15° fall below the normal temp. of 50° F.  
*D\*\** (Side of brg toward fixed brg)  
*D\*\** = *b* per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- After beams have been erected and dimensions *D\** & *D\*\** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



**TOP OF WEB ELEVATIONS \***

	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12	Girder 13	Girder 14
E Brg S. Abut.	832.328	832.194	832.011	831.828	831.645	831.462	831.279	831.506	831.326	831.146	830.966	830.785	830.605	830.423
E Splice #1	832.173	832.024	831.842	831.662	831.480	831.299	831.117	831.363	831.184	831.006	830.827	830.649	830.471	830.311
E Brg Pier	832.022	831.867	831.686	831.506	831.325	831.145	830.964	831.216	831.038	830.861	830.683	830.505	830.328	830.177
E Splice #2	832.005	831.847	831.667	831.488	831.308	831.128	830.948	831.207	831.030	830.853	830.676	830.499	830.323	830.180
E Brg N. Abut.	831.755	831.578	831.400	831.222	831.043	830.865	830.687	830.962	830.787	830.612	830.437	830.261	830.086	829.966

\* For Girder Fabrication Only.

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED

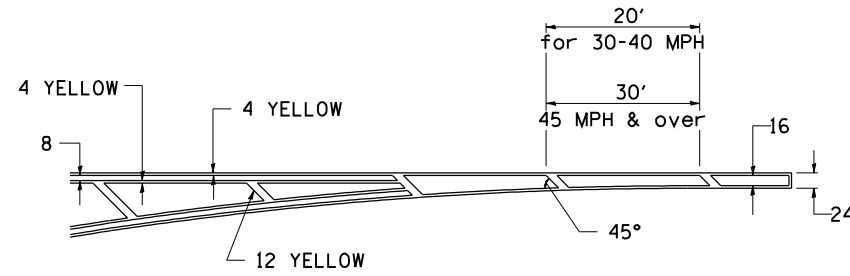
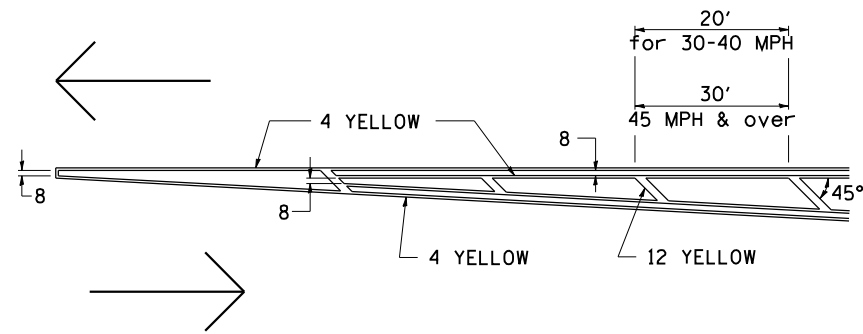
DATE	BY	ORIGINAL SURVEY	PLOTTED	TEMPLATE	AREAS CHECKED

I-2-G 3-29-71

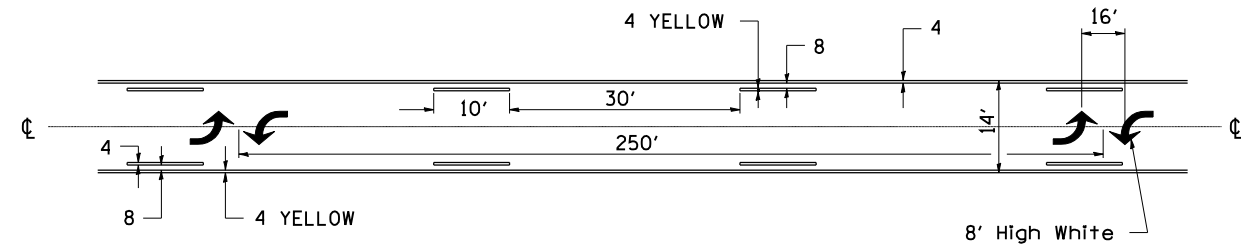
BEARING DETAILS  
F.A. RTE. 412 SEC. 141-1HB-1  
OGLE COUNTY  
STA. 1408 + 92.95 (F.A. RTE. 412)

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

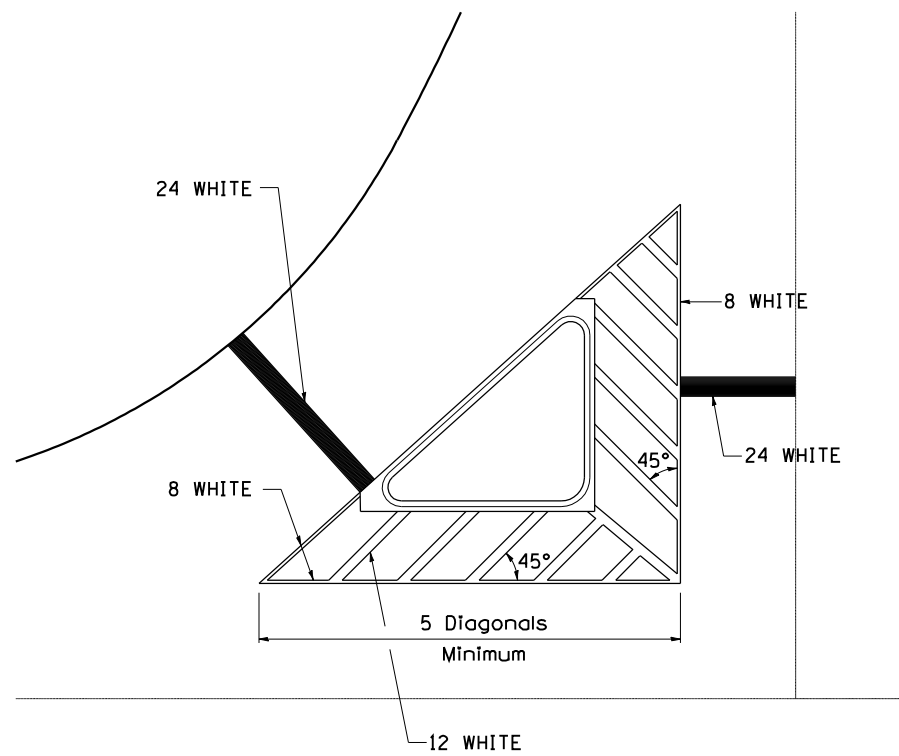


## MEDIAN PAVEMENT MARKING

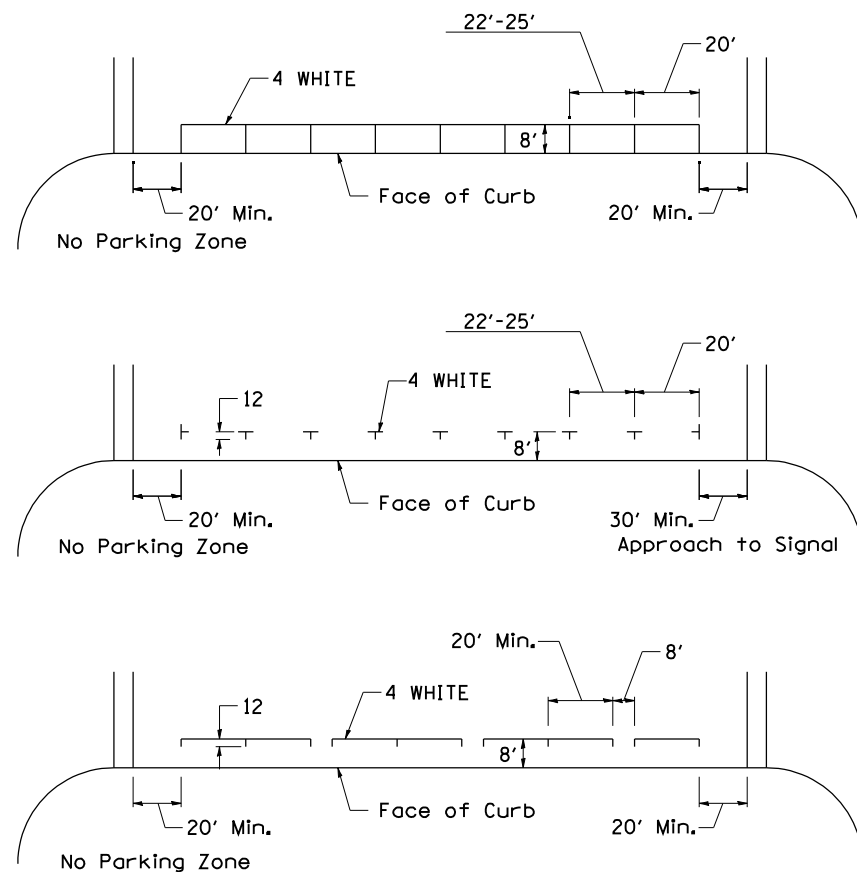


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

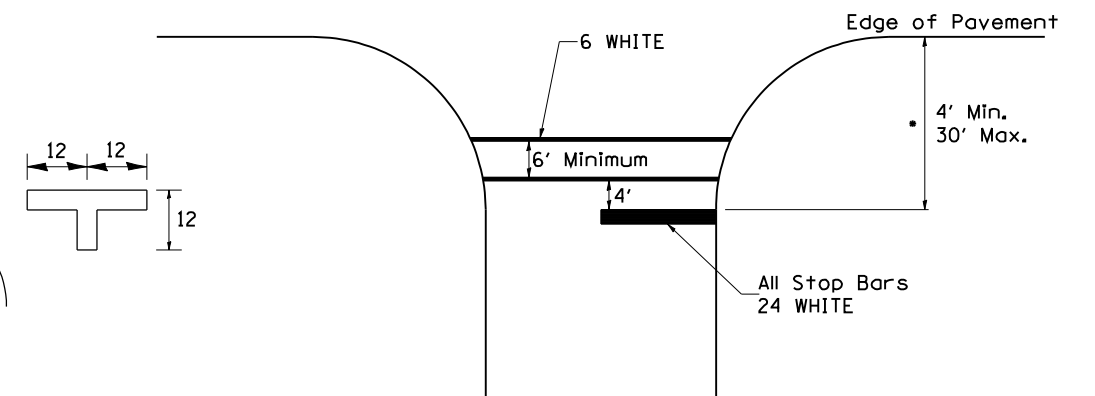


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations



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

FILE NAME = I:\102708.1-39 bridge painting\CADD Sheets\0264J27-sht-STD41.dgn	USER NAME = I00T	DESIGNED -	REVISED - 10-18-11
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

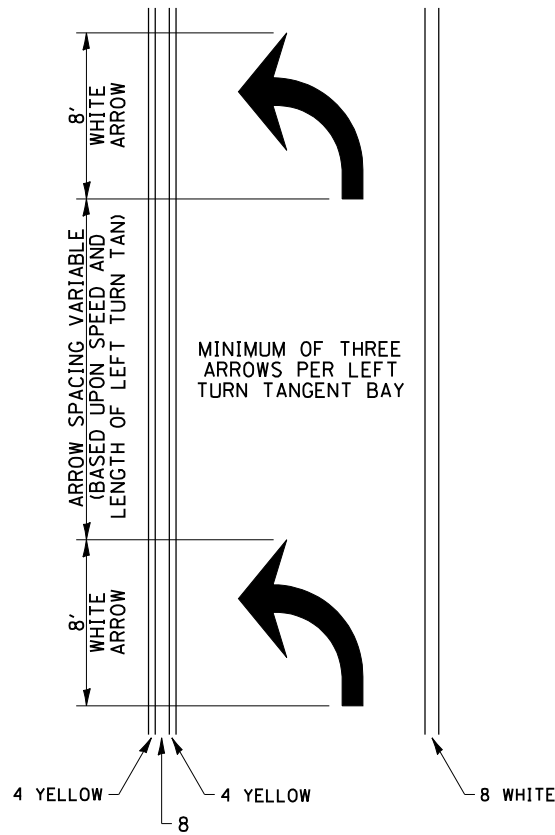
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	02 BRIDGE PAINTING 2013-2	OGLE	26	23
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

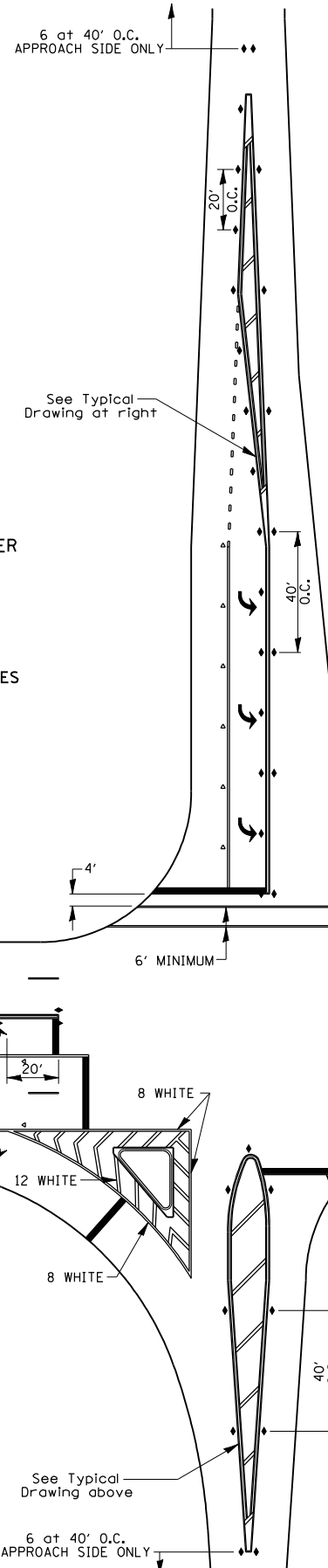
# TYPICAL PAVEMENT MARKINGS

## ARROW LAYOUT

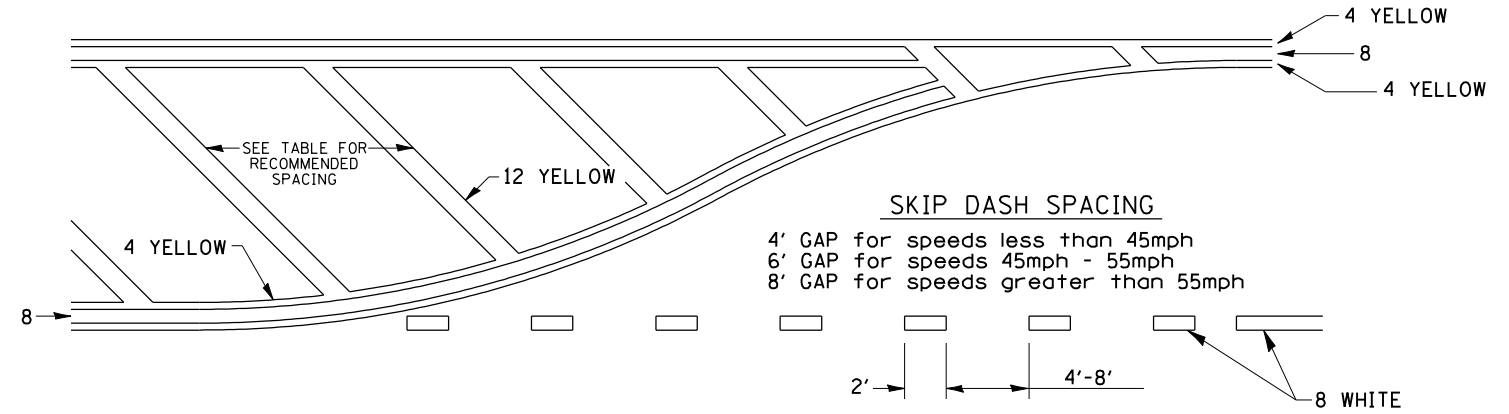


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



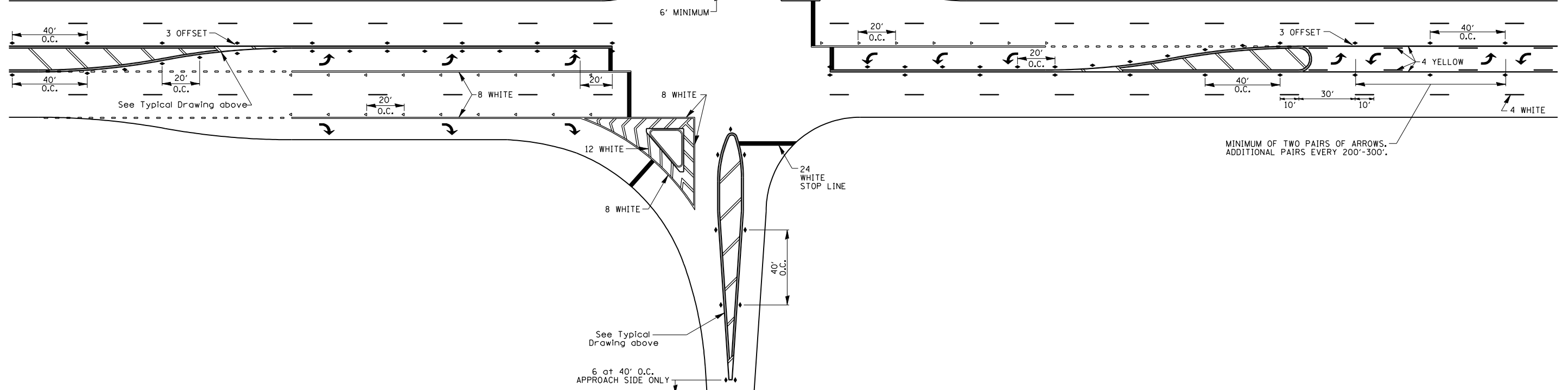
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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



FILE NAME =	USER NAME = 100T	DESIGNED -	REVISED - 10-18-11
I:\102708.1-39 bridge painting\CADD Sheets\0264J27-sht-STD41.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

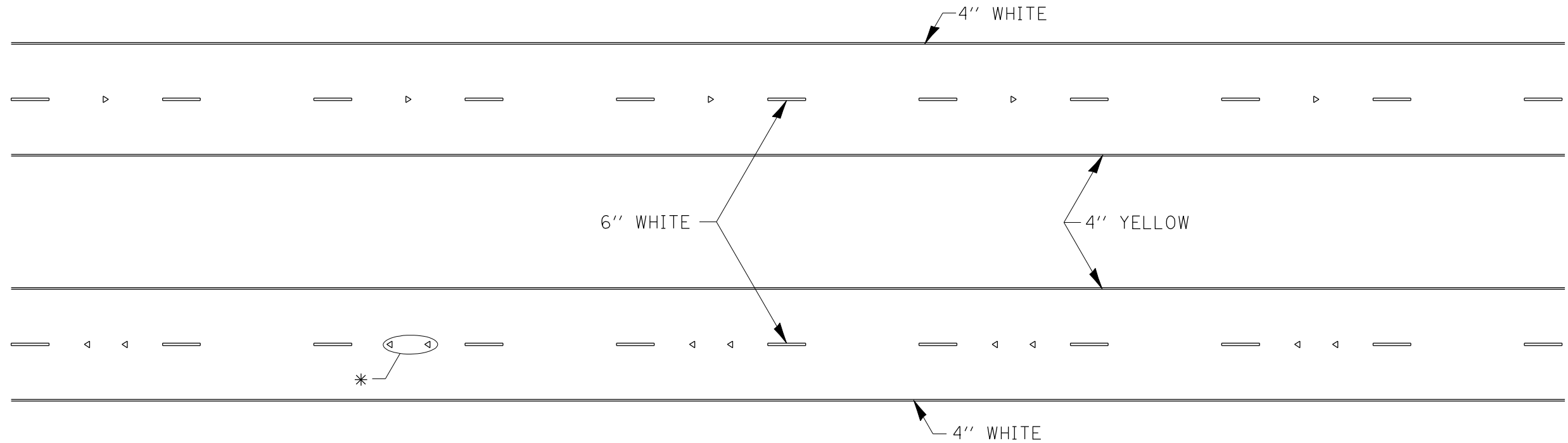
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	24
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

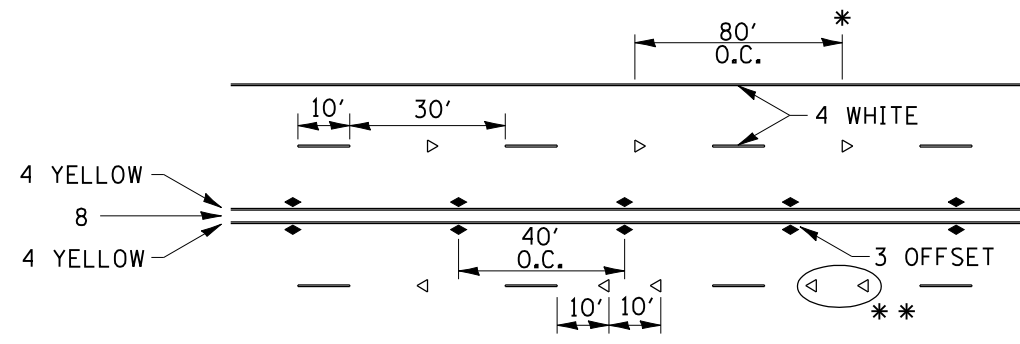


# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000.

## MULTI-LANE / DIVIDED

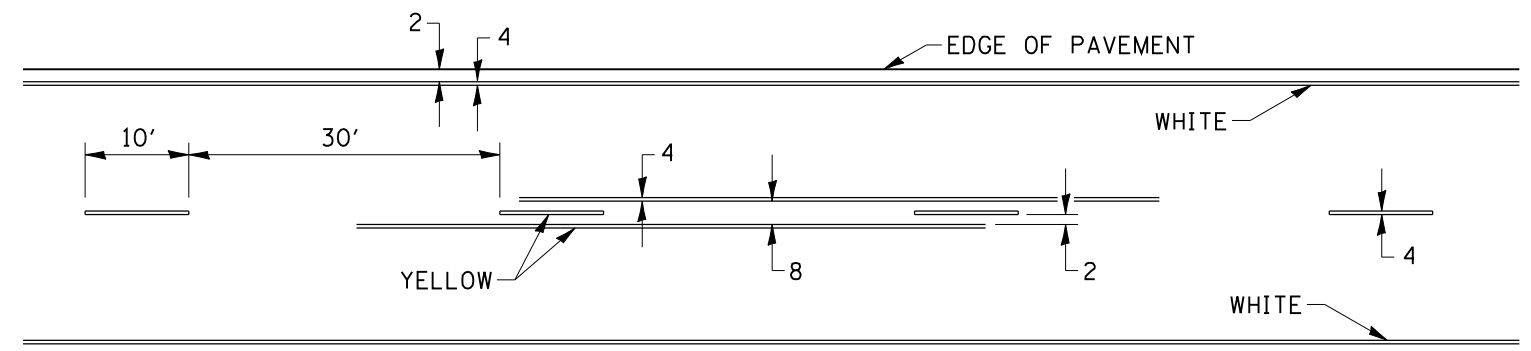


\* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.  
\*\* USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000

## MULTI-LANE / UNDIVIDED

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

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



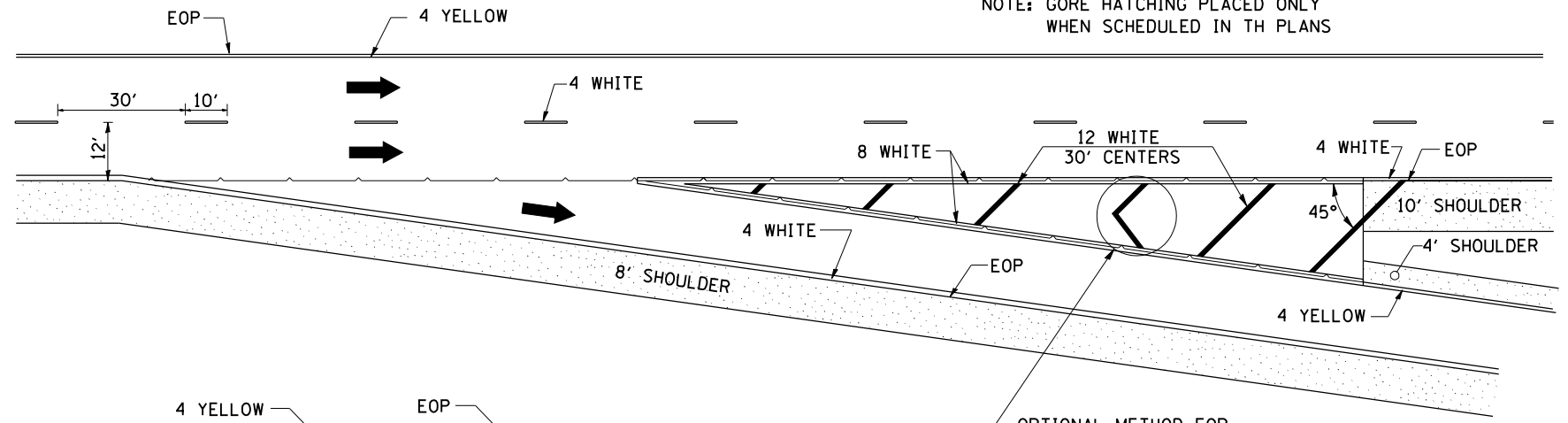
SYMBOLS

FILE NAME =	USER NAME = I00T	DESIGNED -	REVISED - 10-18-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I:\102708.1-39 bridge painting\CADD Sheets\0264J27-sht-STD41.dgn	DRAWN -	REVISED -	REVISED -					39	D2 BRIDGE PAINTING 2013-2	OGLE	26	25
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 64J27							
PLOT DATE = 9/6/2012	DATE -	REVISED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

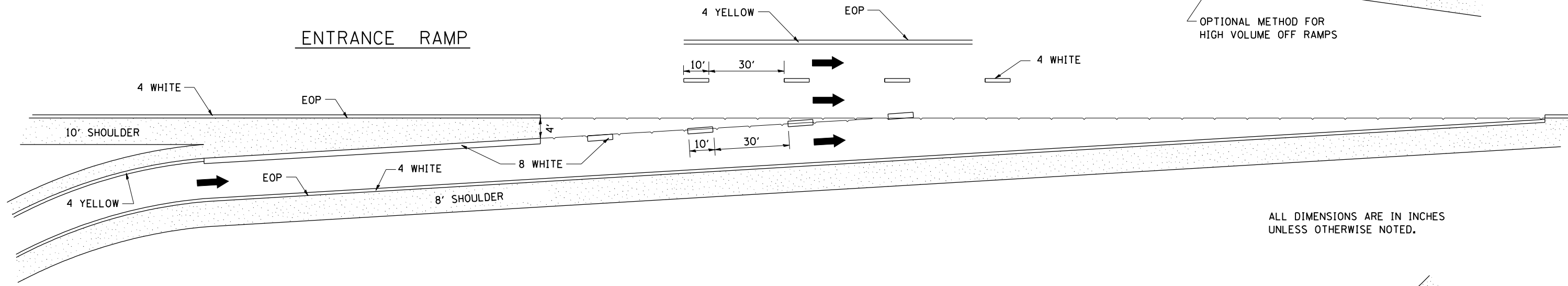
# PAINING DETAILS

## EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN TH PLANS

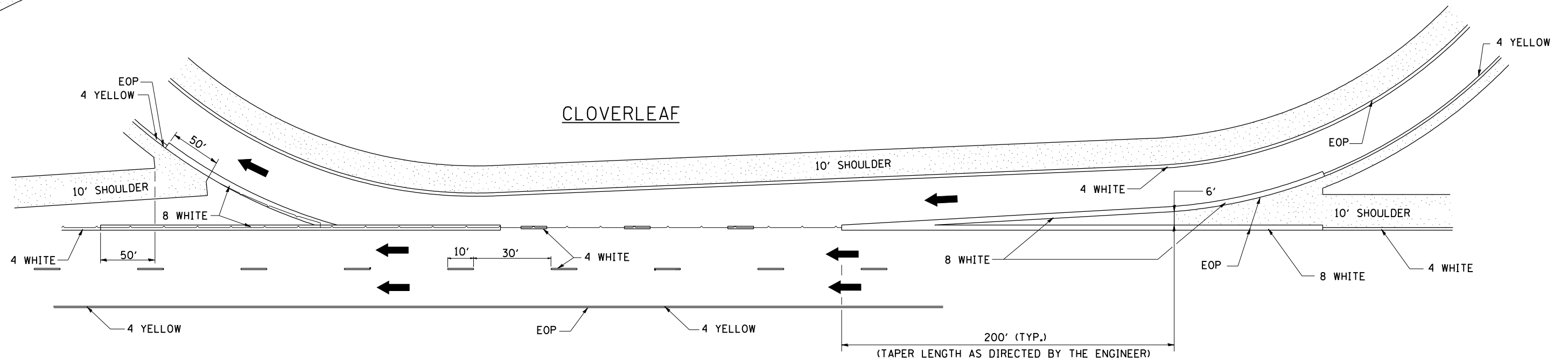


## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



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PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 9/6/2012		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	D2 BRIDGE PAINTING 2013-2	OGLE	26	26
CONTRACT NO. 64J27				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				