

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

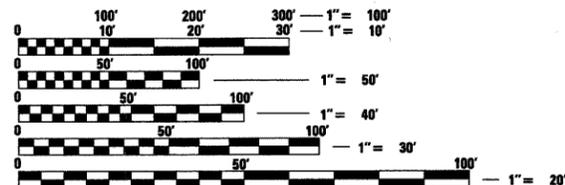
F.A.I. 57 - I-57  
AT 167th STREET  
SECTION 1011.3 I  
BRIDGE DECK OVERLAY  
COOK COUNTY  
C-91-081-08  
PROJECT: ESP-057-7(283)346  
R 13 E

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN  
THE CITIES OF OAK FOREST AND  
COUNTRY CLUB HILLS

**TRAFFIC DATA**  
167th STREET  
2006 ADT = 26,500  
SPEED LIMIT = 45 MPH

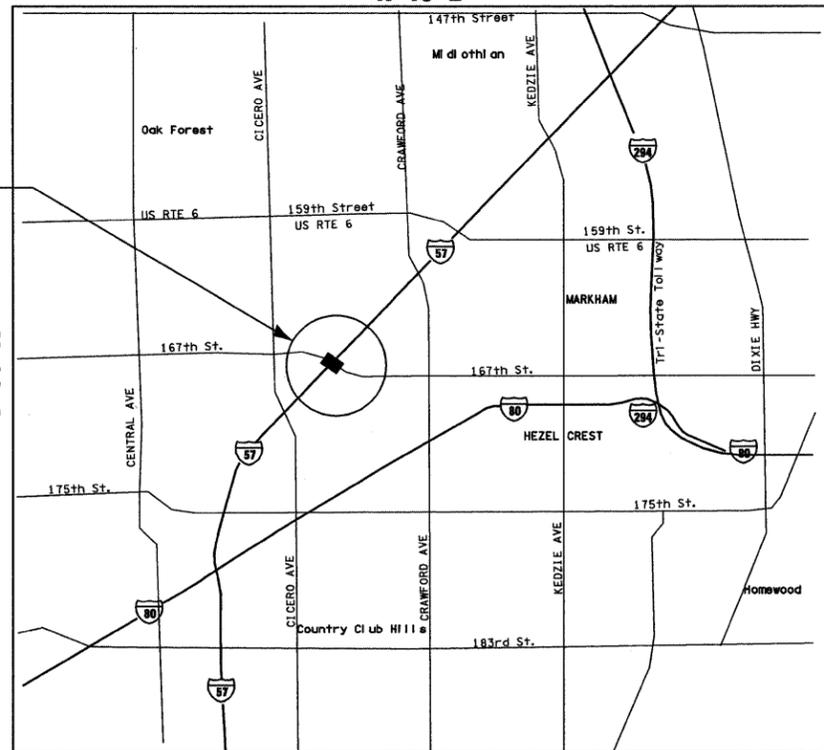
LOCATION OF  
IMPROVEMENT  
167th ST. OVER I-57  
STRUCTURE No. 016-2125



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

DISTRICT ONE -  
PROJECT MANAGER: LONG TRAN (847) 705-4232  
PROJECT ENGINEER: MICHELLE AQUINO (847) 705-4606  
CONTRACT NO. 60D63



BREMEN TOWNSHIP  
GROSS & NET LENGTH OF PROJECT = 330 FT = 0.06 MILE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3 I	COOK	21	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60D63	
D-91-081-08				



LOCATION OF SECTION INDICATED THUS: -

RJN GROUP, INC.  
BRANDON BUZZELL, S.E.  
# 081-006358

*Brandon Buzzell* exp. 11/09

DATE: SIGNATURE AND SEAL APPLIES TO DRWG.  
NOS. 9-16

MILLENNIA ENGINEERING  
THOMAS V. NGO, P.E.  
# 062-058379

*Thomas V. Ngo* EXP. 11/09

DATE: 01/23/09  
SIGNATURE AND SEAL APPLIES TO DRWG.  
NOS. 1-8 & 17-21

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED: JANUARY 26 2009

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

March 27, 2009  
*Charles J. Ingersoll*  
ENGINEER OF DESIGN AND ENVIRONMENT

March 27, 2009  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**rjngroup** License # 184-000813  
Excellence through Ownership  
200 West Front Street  
Wheaton, IL 60187

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MILLENNIA ENGINEERING

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OF THE STATE OF ILLINOIS

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  - 21 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- HIGHWAY STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701311-03 LANE CLOSURE 2 LANE 2 WAY MOVING OPERATIONS DAY ONLY
- 701400-03 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-05 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-05 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > OR = 45 MPH
- 701446-01 TWO LANE CLOSURE FREEWAY/EXPRESSWAY
- 701601-06 URBAN LANE CLOSURE MULTI LANE 1 WAY 2 WAY NONTRAVERSEABLE MEDIAN
- 701701-06 URBAN LANE CLOSURE MULTI LANE INTERSECTION
- 701901-01 TRAFFIC CONTROL DEVICES

GENERAL NOTES

- 1. THE CONTRACTOR SHALL PROTECT AND SUPPORT THE EXISTING ELECTRICAL LIGHTING CONDUIT ON BOTH WEST AND EAST ABUTMENT WALL DURING FORMED CONCRETE REPAIR OPERATIONS ANY DAMAGE TO THE CONDUITS WILL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- 2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- 3. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- 4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LIMIT SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
- 6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES INCLUDING THE CITIES OF OAK FOREST AND COUNTRY CLUB HILLS.
- 7. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 9. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK ALONG 167TH STREET.
- 11. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK ALONG I-57.
- 12. THE ENGINEER SHALL CONTACT PATRICE HARRIS TRAFFIC FIELD ENGINEER AT (708) 597-9800 A MINIMUM OF TWO WEEKS PRIOR TO PLACE OF PERMANENT PAVEMENT MARKINGS.
- 13. ALL PAVEMENT MARKINGS AND RAISED REFLECTORS AFFECTED BY THE BRIDGE REPAIRS AND MAINTENANCE OF TRAFFIC SHALL BE REPLACED. NOMINAL QUANTITIES HAVE BEEN INCLUDED IN THE PLANS.
- 14. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- 15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

HMA MIXTURES REQUIREMENT

MIX TYPE	AC TYPE	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL - 9.5mm) 1-1/2"	PG 64-22	4% @ 50 Gyr.

NOTES:  
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SOYD/IN.

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 FILE NAME : P:\2007\ME07080.Var\Var-Phl\Cadd\W01\Shets\Rdwy\167th\_Sheet2.dgn  
 PLOT SCALE : 1/8" = 1'-0"  
 USER NAME : Millennium Engineering  
 MODEL :



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DATE - 1/22/2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FAI 57/1-57  
AT 167TH STREET**

INDEX OF SHEETS, LIST OF IDOT HIGHWAY  
STANDARDS, GENERAL NOTES,  
AND COMMITMENTS

F.A.I. RTE. 57	SECTION 1011.3 I	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 2
CONTRACT NO. 60D63				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

PLOT DATE : 2/3/2009  
 FILE NAME : P:\2007\ME07080\_Ver\_Ver\_Phi\Cadd\W01\Shts\RDwy\167th\_500.dgn  
 USER NAME : Millennium Engineering  
 MODEL :

SUMMARY OF QUANTITIES			100% FED. URBAN	CONSTRUCTION TYPE CODE	
			TOTAL QUANTITY	016-2125 SFTY-2A QUANTITY	
CODE NO.	ITEM DESCRIPTION	UNIT			
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	252	252	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6	6	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	386	386	
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	3044	3044	
50102400	CONCRETE REMOVAL	CU YD	17.4	17.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	20.2	20.2	
50300300	PROTECTIVE COAT	SQ YD	54	54	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2530	2530	
50800515	BAR SPLICERS	EACH	32	32	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	2998	2998	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	38	38	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4080	4080	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6530	6530	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1020	1020	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	294	294	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	30	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	10	10	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1290	1290	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40	40	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	180	180	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	456	456	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
X7030104	WET TEMPORARY PAVEMENT MARKING TAPE , TYPE III, 4 INCH	FOOT	11680	11680	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	204	204	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	632	632	

\* SPECIALTY ITEM



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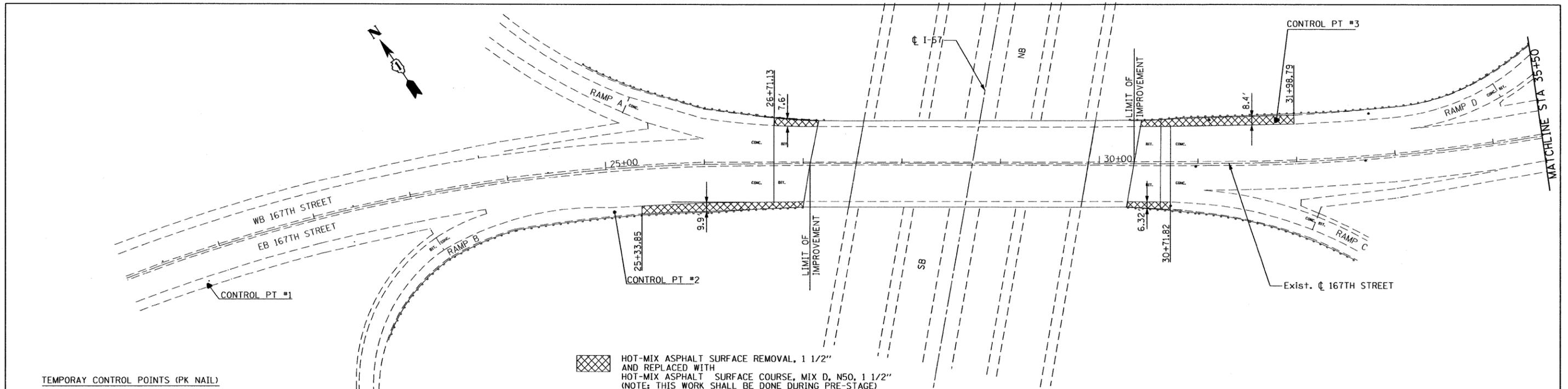
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAI 57A-57**  
**AT 167TH STREET**

**SUMMARY OF QUANTITIES**

F.A.I. RTE. 57	SECTION 1011.3 I	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 3
CONTRACT NO. 60063				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

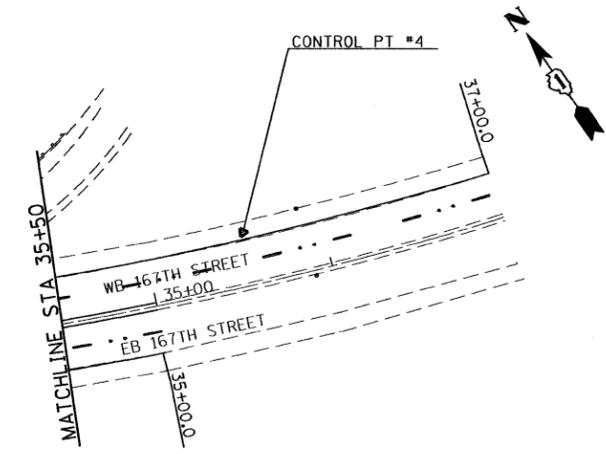
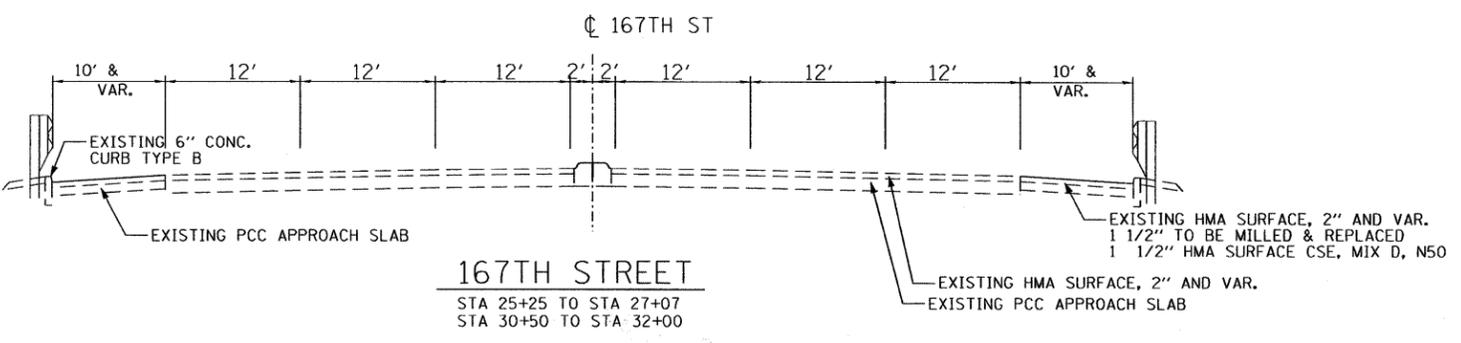
SCALE: SHEET NO. OF SHEETS STA. TO STA.



TEMPORARY CONTROL POINTS (PK NAIL)

POINT	NORTH	EAST	STATION	OFFSET
CP#1	1,793,189.377 FEATURE : 103	1,149,232.886	20+77.35	35.228
CP#2	1,793,020.724 FEATURE : 103	1,149,615.032	25+05.62	43.098
CP#3	1,792,720.807 FEATURE : 103	1,150,221.573	31+80.70	-42.838
CP#4	1,792,543.647 FEATURE : 103	1,150,543.745	35+55.83	-29.873

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" AND REPLACED WITH HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 1 1/2" (NOTE: THIS WORK SHALL BE DONE DURING PRE-STAGE)



1/28/2008 10:27:00 AM Ver-Plan-Philly-Cadd\MOI\Bases\SH1\_167\PEX01167.dwg  
 PLOT DATE: 1/28/2008 10:27:00 AM  
 PLOT SCALE: 1/4"=1'-0"  
 USER NAME: Millennium Engineering  
 MODEL:

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DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 01/28/08	REVISED -

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

**FAI 57/1-57**  
**AT 167TH STREET**

SCALE: 1"=50'    SHEET NO. 4 OF 20 SHEETS    STA. 20+00 TO STA. 37+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3I	COOK	20	4

CONTRACT NO. 60D63

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT  
 PA\2007\ME07880\_Ver-Plan-Philly-Cadd\MOI\Bases\SH1\_167\PEX01167.dwg

## MAINTENANCE OF TRAFFIC NOTES

1. THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MOT PLANS.
3. ALL EXISTING PAVEMENT MARKING IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE REMOVED THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "PAVEMENT MARKING REMOVAL"..
4. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKING TAPE WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING. REMOVAL OF TEMPORARY PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "WORK ZONE PAVEMENT MARKING REMOVAL".
5. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS, OR HIGHWAY STANDARDS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
6. ALL DRUMS, VERTICAL PANELS AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY-BURNING LIGHTS.
7. ALL EXISTING SIGNS WITHIN THE LIMITS OF MAINTENANCE OF TRAFFIC WHICH ARE OBSCURED BY OR OTHERWISE INTERFERED WITH BY THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
8. TEMPORARY, OFF-PEAK HOUR LANE CLOSURES MUST BE REQUESTED THROUGH THE ENGINEER AND AS SPECIFIED IN THE SPECIAL PROVISIONS, WHEN OFF-PEAK HOUR OR WEEKEND LANE CLOSURES ARE REQUIRED, A PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED ONE WEEK PRIOR TO THE CLOSURE. THE MESSAGE SIGN WORDING AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
9. THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACED TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH, "CHANGEABLE MESSAGE SIGN".
10. ALL TEMPORARY INFORMATION SIGNS SHALL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER SQUARE FEET FOR "TEMPORARY INFORMATION SIGNING".
11. FOR ADDITIONAL BRIDGE CONSTRUCTION STAGING INFORMATION, SEE STRUCTURAL PLANS.

## MAINTENANCE OF TRAFFIC DESCRIPTION

### PRESTAGE

CONSTRUCTION:  
IMPROVE EXISTING HOT MIX ASPHALT SHOULDER PER PLAN.

IMPLEMENT STAGE 1 MOT PAVEMENT MARKINGS

MAINTENANCE OF TRAFFIC:  
CLOSE LANE ADJACENT TO SHOULDER BY UTILIZING ILLINOIS HIGHWAY STANDARD 701601, URBAN LANE CLOSURE MULTI LANE 1 WAY 2 WAY NONTRVERSEABLE MEDIAN.

### STAGE 1

CONSTRUCTION:  
CONDUCT BRIDGE REPAIRS AND HMA BRIDGE DECK OVERLAY ALONG INSIDE LANES OF WB AND EB 167TH STREET.

CONDUCT WEST AND EAST ABUTMENT REPAIRS.

MAINTENANCE OF TRAFFIC:  
WESTBOUND 167TH STREET TRAFFIC; MAINTAIN ONE LANE OF TRAFFIC BY UTILIZING THE WESTBOUND OUTSIDE LANE PER MAINTENANCE OF TRAFFIC PLAN.

EASTBOUND 167TH STREET TRAFFIC; MAINTAIN ONE LANE OF TRAFFIC BY UTILIZING THE EASTBOUND OUTSIDE LANE PER MAINTENANCE OF TRAFFIC PLAN.

NORTHBOUND AND SOUTHBOUND I-57 COLLECTOR LANES; MAINTAIN TRAFFIC AT ALL TIMES. UTILIZE DISTRICT ONE DETAIL TC-17, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES (PERMANENT).

### STAGE 2

CONSTRUCTION:  
CONDUCT BRIDGE REPAIRS AND HMA BRIDGE DECK OVERLAY ALONG OUTSIDE LANES OF WB AND EB 167TH STREET.

COMPLETE WEST AND EAST ABUTMENT REPAIRS.

MAINTENANCE OF TRAFFIC:  
WESTBOUND 167TH STREET TRAFFIC; MAINTAIN TWO LANES OF TRAFFIC BY UTILIZING THE WESTBOUND INSIDE LANES PER MAINTENANCE OF TRAFFIC PLAN.

EASTBOUND 167TH STREET TRAFFIC; MAINTAIN TWO LANES OF TRAFFIC BY UTILIZING THE EASTBOUND INSIDE LANES PER MAINTENANCE OF TRAFFIC PLAN.

NORTHBOUND AND SOUTHBOUND I-57 COLLECTOR LANES; MAINTAIN TRAFFIC AT ALL TIMES. UTILIZE DISTRICT ONE DETAIL TC-17, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PERMANENT).

### STAGE 2A

CONSTRUCTION:  
INSTALL FINAL PAVEMENT MARKINGS AND RAISED PAVEMENT REFLECTORS.

MAINTENANCE OF TRAFFIC:  
UTILIZE ILLINOIS HIGHWAY STANDARD 701311, LANE CLOSURE 2 LANE 2 WAY MOVING OPERATIONS DAY ONLY

PLOT DATE : 1/22/2009 10:27:00 AM  
 PLOT SCALE : 1/8" = 1'-0"  
 USER NAME : Millennium Engineering  
 MODEL :



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CHECKED	-	---	REVISED	-	---
DATE	-	1/22/2009	REVISED	-	---

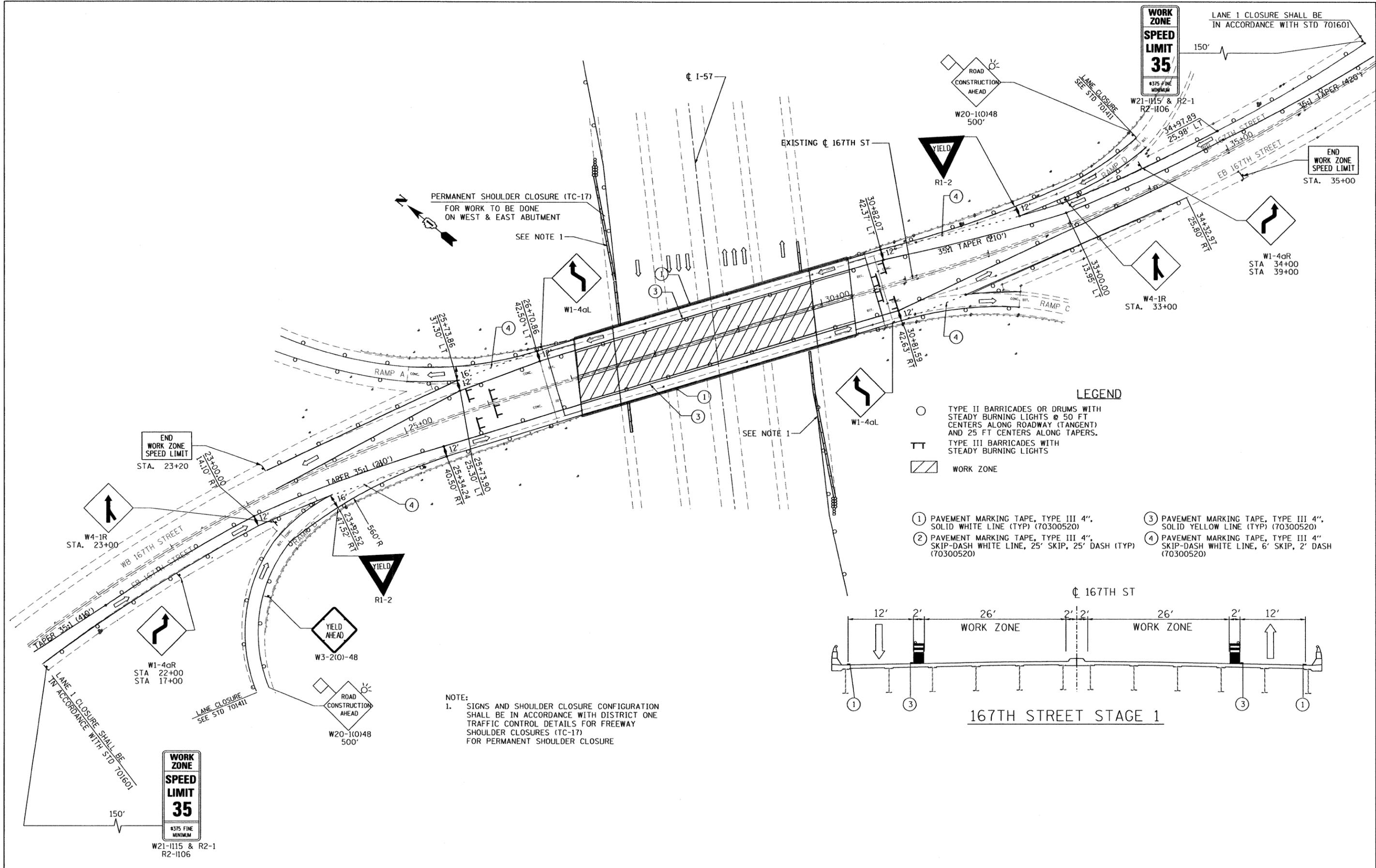
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAI 57A-57**  
**AT 167TH STREET**

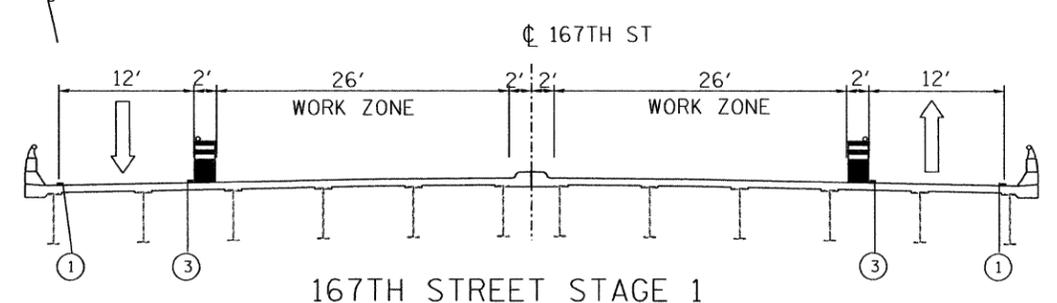
**MAINTENANCE OF TRAFFIC**  
**NOTES AND DESCRIPTION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3 I	COOK	21	5
CONTRACT NO. 60D63			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FILE NAME: P:\2007\ME070800\_Ver\car\_Plan\cadd\MOI\Bases\167\PM0701167.sht  
 USER: JMM  
 DATE: 1/22/2009  
 MILLENNIA ENGINEERING



- LEGEND**
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
  - ▬ TYPE III BARRICADES WITH STEADY BURNING LIGHTS
  - ▨ WORK ZONE
  - ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
  - ② PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 25' SKIP, 25' DASH (TYP) (70300520)
  - ③ PAVEMENT MARKING TAPE, TYPE III 4", SOLID YELLOW LINE (TYP) (70300520)
  - ④ PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)



NOTE:  
 1. SIGNS AND SHOULDER CLOSURE CONFIGURATION SHALL BE IN ACCORDANCE WITH DISTRICT ONE TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES (TC-17) FOR PERMANENT SHOULDER CLOSURE

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DATE - 1/22/2009	REVISED -

**STATE OF ILLINOIS  
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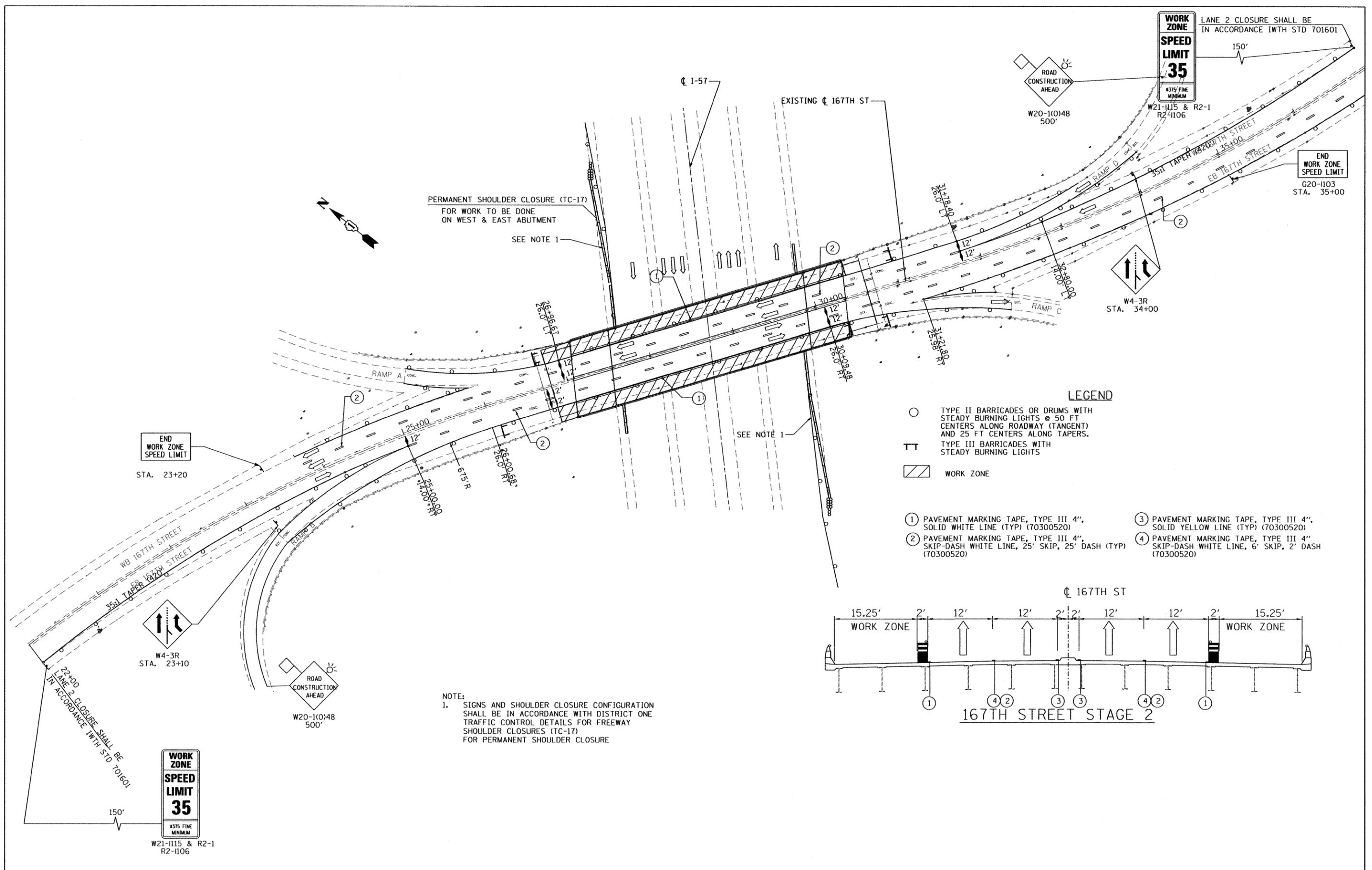
**FAI 57/1-57  
 AT 167TH STREET**

SCALE: 1"=50' SHEET NO. 6 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 57	SECTION 1011.31	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 6
SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL STAGE-1				
CONTRACT NO. 60D63				

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT  
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 PLOT SCALE = 50.0000 X 1 IN.  
 USER NAME = Millennium Engineering



END WORK ZONE SPEED LIMIT  
 STA. 23+20

W4-3R  
 STA. 23+10

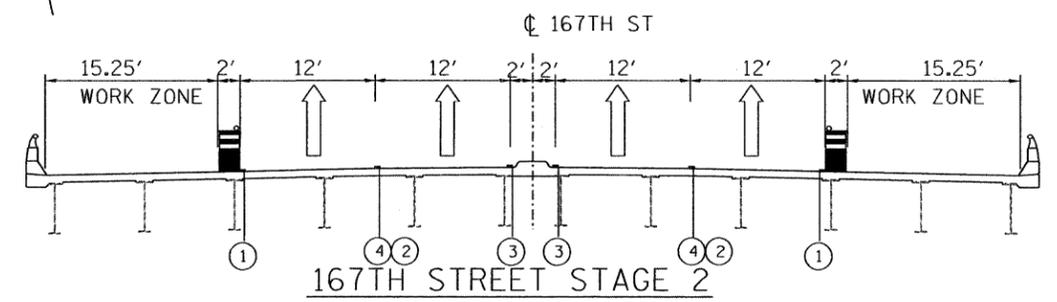
WORK ZONE SPEED LIMIT 35  
 6375 FINE MINIMUM  
 W21-1115 & R2-1  
 R2-1106

PERMANENT SHOULDER CLOSURE (TC-17)  
 FOR WORK TO BE DONE ON WEST & EAST ABUTMENT  
 SEE NOTE 1

NOTE:  
 1. SIGNS AND SHOULDER CLOSURE CONFIGURATION SHALL BE IN ACCORDANCE WITH DISTRICT ONE TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES (TC-17) FOR PERMANENT SHOULDER CLOSURE

LEGEND

- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENT) AND 25 FT CENTERS ALONG TAPERS.
- TT TYPE III BARRICADES WITH STEADY BURNING LIGHTS
- ▨ WORK ZONE
- ① PAVEMENT MARKING TAPE, TYPE III 4", SOLID WHITE LINE (TYP) (70300520)
- ② PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 25' SKIP, 25' DASH (TYP) (70300520)
- ③ PAVEMENT MARKING TAPE, TYPE III 4", SOLID YELLOW LINE (TYP) (70300520)
- ④ PAVEMENT MARKING TAPE, TYPE III 4", SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)



**MILLENNIA ENGINEERING**  
 200 22ND Street, Suite 216, Lombard, IL 60148  
 630.705.0110 voice, 630.839.2566 fax  
 www.millenniaeng.com

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/22/2009	REVISED -

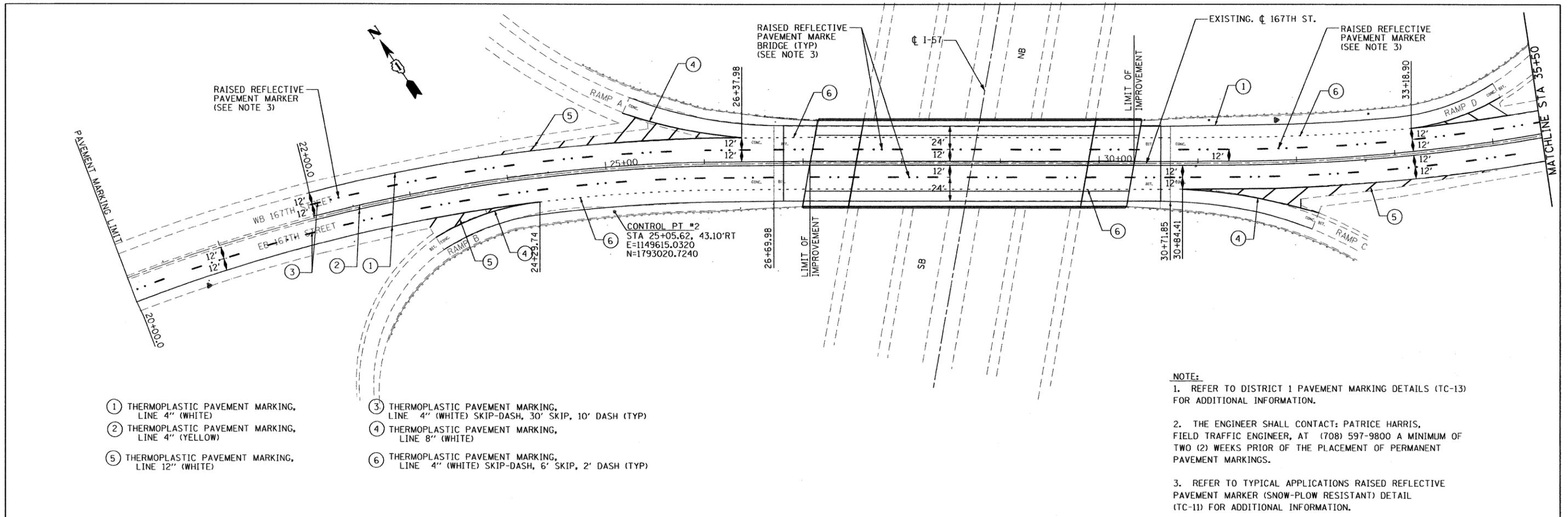
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAI 57/1-57  
 AT 167TH STREET**

SCALE: 1"=50' SHEET NO. 7 OF 21 SHEETS STA. TO STA.

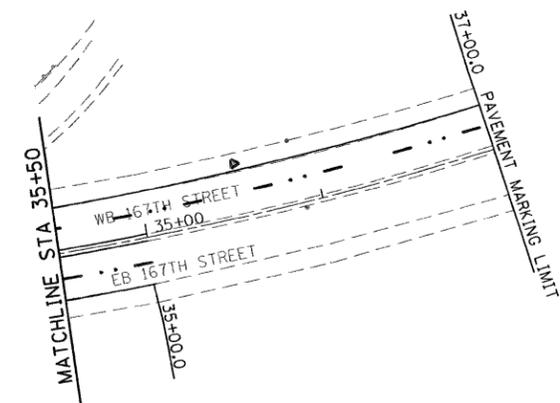
F.A.I. RTE. 57	SECTION 1011.31	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 7
CONTRACT NO. 60D63				

FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT  
 P:\2007\ME07080\_Ver-Var-Plan\Cadd\W01\Bess\SH1.167\PM0702167.dwg



- ① THERMOPLASTIC PAVEMENT MARKING, LINE 4" (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING, LINE 4" (YELLOW)
- ③ THERMOPLASTIC PAVEMENT MARKING, LINE 4" (WHITE) SKIP-DASH, 30' SKIP, 10' DASH (TYP)
- ④ THERMOPLASTIC PAVEMENT MARKING, LINE 8" (WHITE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING, LINE 12" (WHITE)
- ⑥ THERMOPLASTIC PAVEMENT MARKING, LINE 4" (WHITE) SKIP-DASH, 6' SKIP, 2' DASH (TYP)

- NOTE:**
1. REFER TO DISTRICT 1 PAVEMENT MARKING DETAILS (TC-13) FOR ADDITIONAL INFORMATION.
  2. THE ENGINEER SHALL CONTACT: PATRICE HARRIS, FIELD TRAFFIC ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR OF THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
  3. REFER TO TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER (SNOW-PLOW RESISTANT) DETAIL (TC-11) FOR ADDITIONAL INFORMATION.



FILE NAME = P:\2007\ME07080\_Ver-Ver-Phil\Cadd\MOI\Bosa\SH1-167\PM01167.dwg  
 PLOT SCALE = 1/4" = 10'-0"  
 USER NAME = Millennium Engineering


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 200 22ND Street, Suite 216, Lombard, IL 60148  
 630.705.0110 voice, 630.839.2566 fax  
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DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/23/2009	REVISED -

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

**FAI 57/1-57**  
**AT 167TH STREET**  
 SCALE: 1"=50' SHEET NO. 8 OF 21 SHEETS

**PAVEMENT MARKING PLAN**  
 STA. TO STA.

F.A.I. RTE. 57	SECTION 1011.3I	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 8
CONTRACT NO. 60D63				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

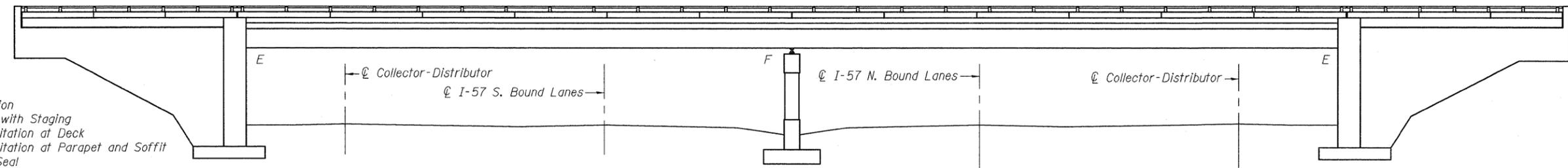
P:\2007\ME07080\_Ver-Ver-Phil\Cadd\MOI\Bosa\SH1-167\PM01167.dwg

The existing structure was built in 1968. It is a two span continuous structure with steel beams. The substructure consists of PPC I-beams on vaulted abutments and reinforced column concrete piers. The rehabilitation work will be done utilizing stage construction.

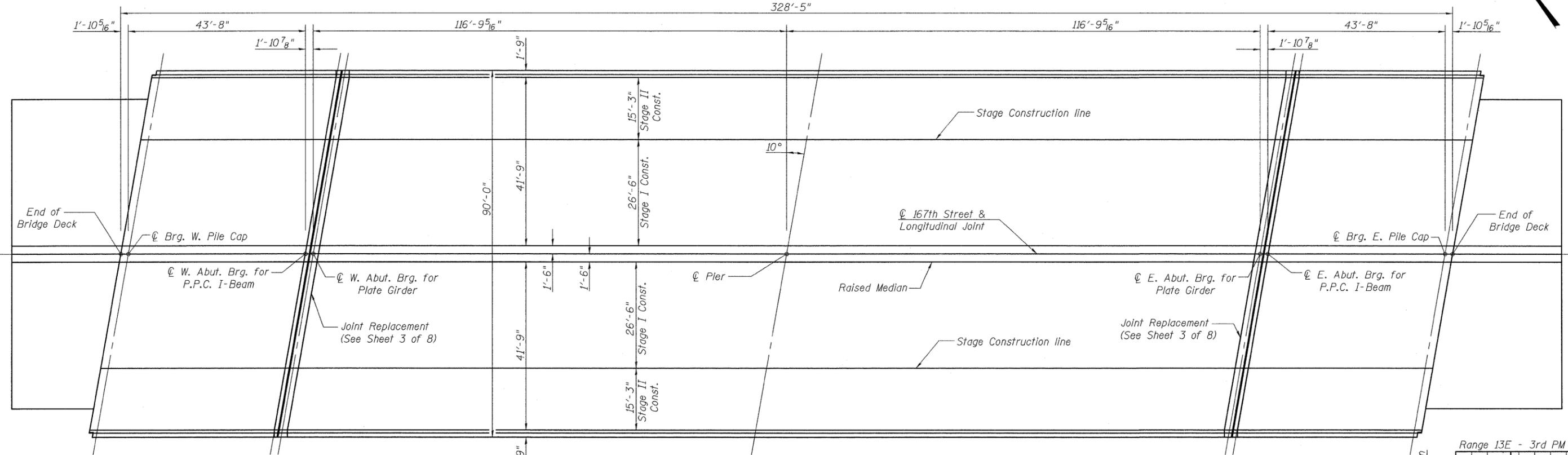
The proposed improvements consist of removal of the existing HMA wearing surface, deck slab repairs, replacing the existing expansion joints, construction of a Hot-Mix Asphalt overlay, repair of the parapets, and repair of the substructure.

**INDEX OF SHEETS**

1. General Plan and Elevation
2. Typical Cross Sections with Staging
3. Expansion Joint Rehabilitation at Deck
4. Expansion Joint Rehabilitation at Parapet and Soffit
5. Prefomed Joint Strip Seal
6. Bar Splicer Assembly Details
7. Deck and Parapet Repair Plan
8. Abutment Repairs



**ELEVATION**



**PLAN**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	3044		3044
Deck Slab Repair (Partial)	Sq. Yd.	632		632
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	204		204
Waterproofing Membrane System	Sq. Yd.	2,998		2,998
Hot-Mix Asphalt Surface Course, Mix "D", N50	Ton	252		252
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	30	426	456
Concrete Removal	Cu. Yd.	17.4		17.4
Reinforcement Bars, Epoxy Coated	Pound	2530		2530
Concrete Superstructure	Cu. Yd.	20.2		20.2
Protective Coat	Sq. Yd.	54		54
Bar Splicers	Each	32		32
Prefomed Joint Strip Seal	Foot	180		180

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

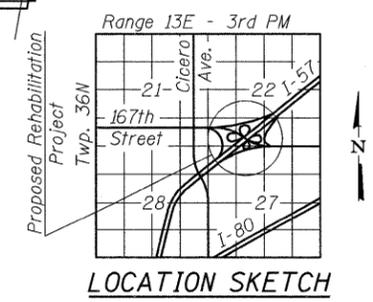
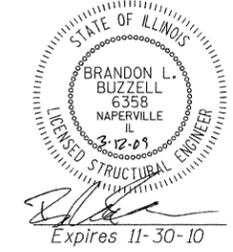
These plans have been prepared from notes received from the Illinois Department of Transportation field maintenance Engineers. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500 \text{ psi}$   
 $f_y = 60,000 \text{ psi (Reinforcement)}$

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges



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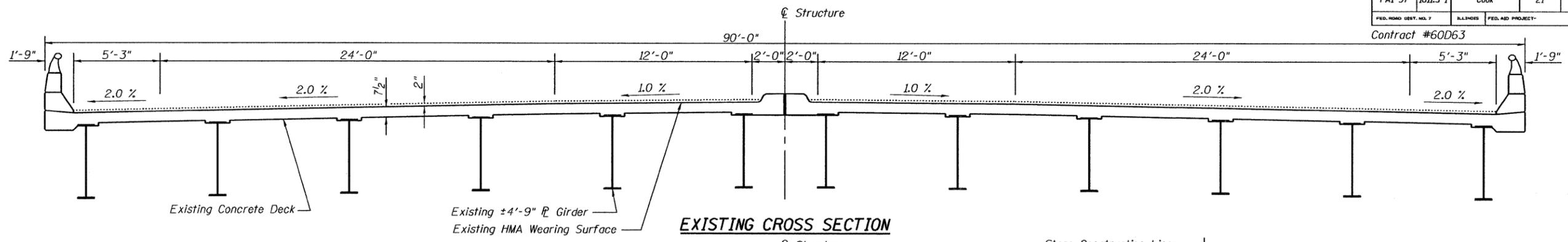
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 GENERAL PLAN AND ELEVATION  
 167th STREET OVER I-57  
 FAI RTE 57 SECTION 1011.3 I  
 COOK COUNTY  
 STATION 28+71.53  
 STRUCTURE NO. 016-2125  
 DATE: 11-06-2007  
 DRAWN BY WJV  
 CHECKED BY BLB

3/12/2009 K:\11225581\Structures\167th over I-57\GPE.dgn

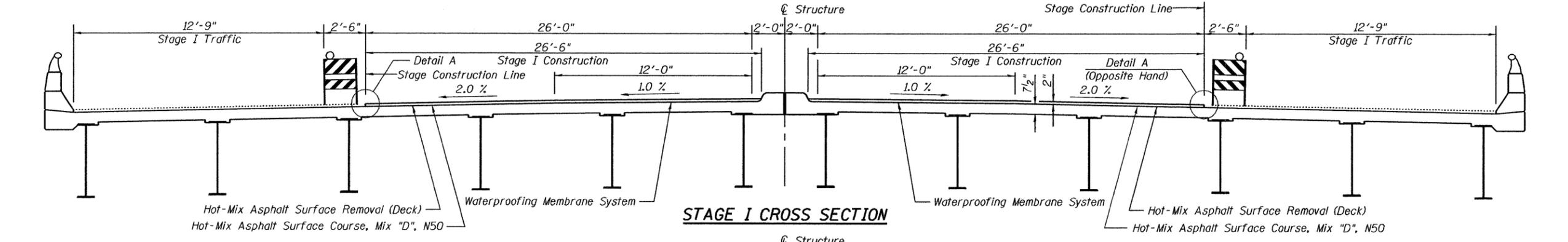
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	1011.3 I	Cook	21	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2  
8 SHEETS

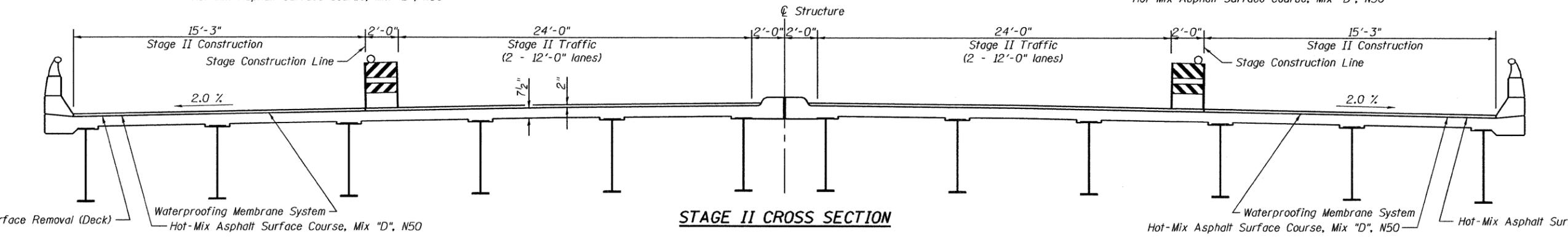
Contract #60D63



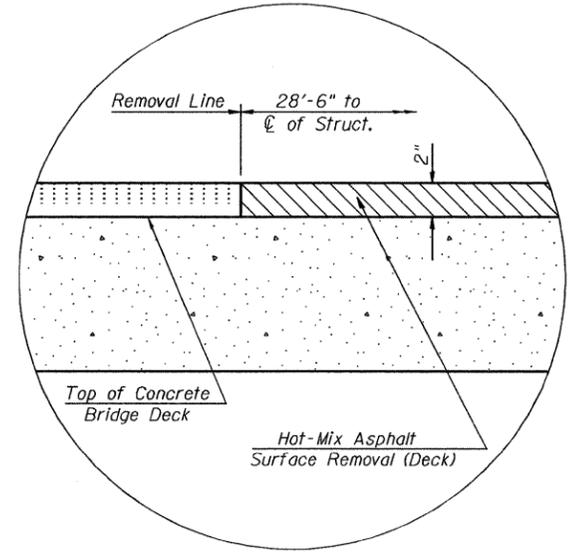
**EXISTING CROSS SECTION**



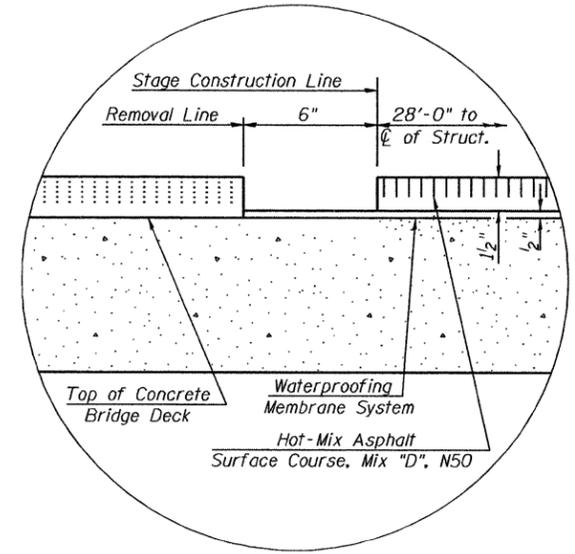
**STAGE I CROSS SECTION**



**STAGE II CROSS SECTION**



**DETAIL A**  
(Showing Removal)

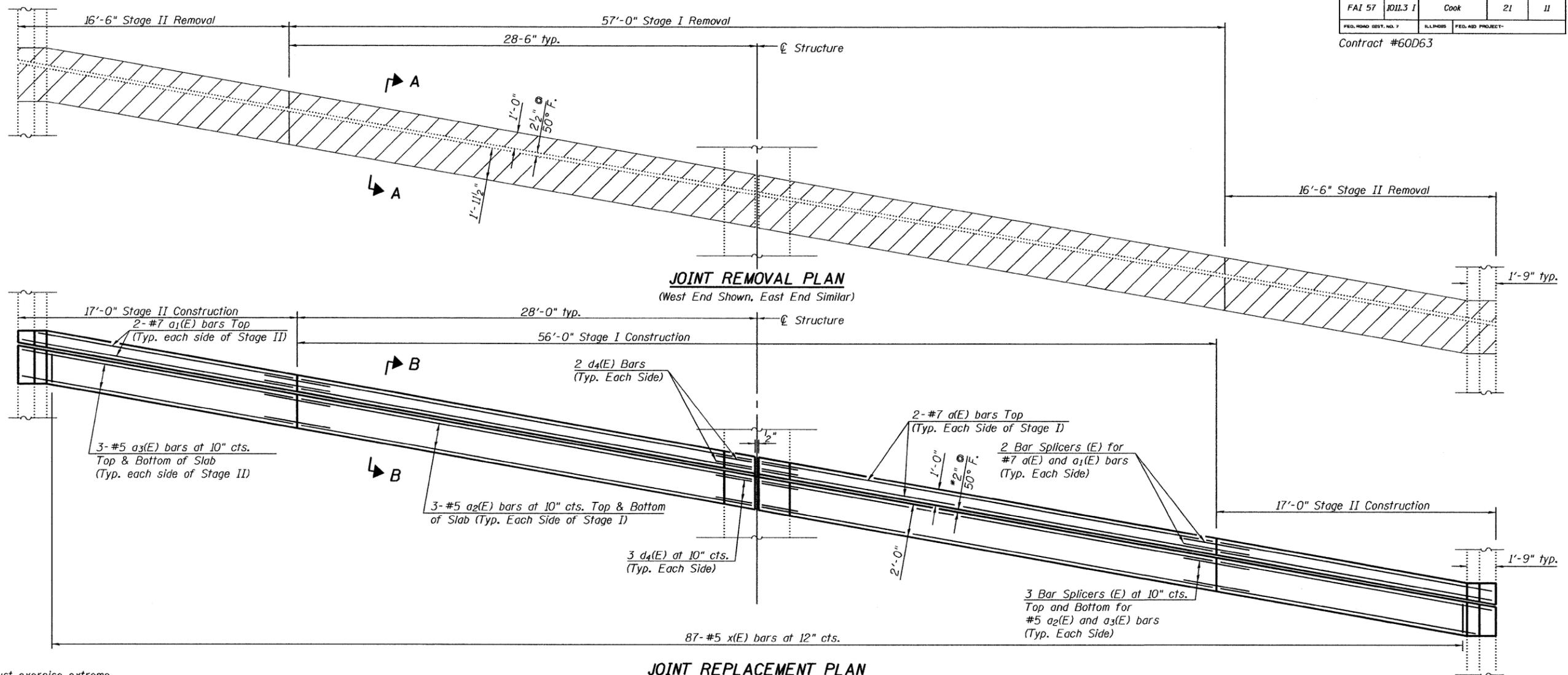


**DETAIL A**  
(Showing Proposed)

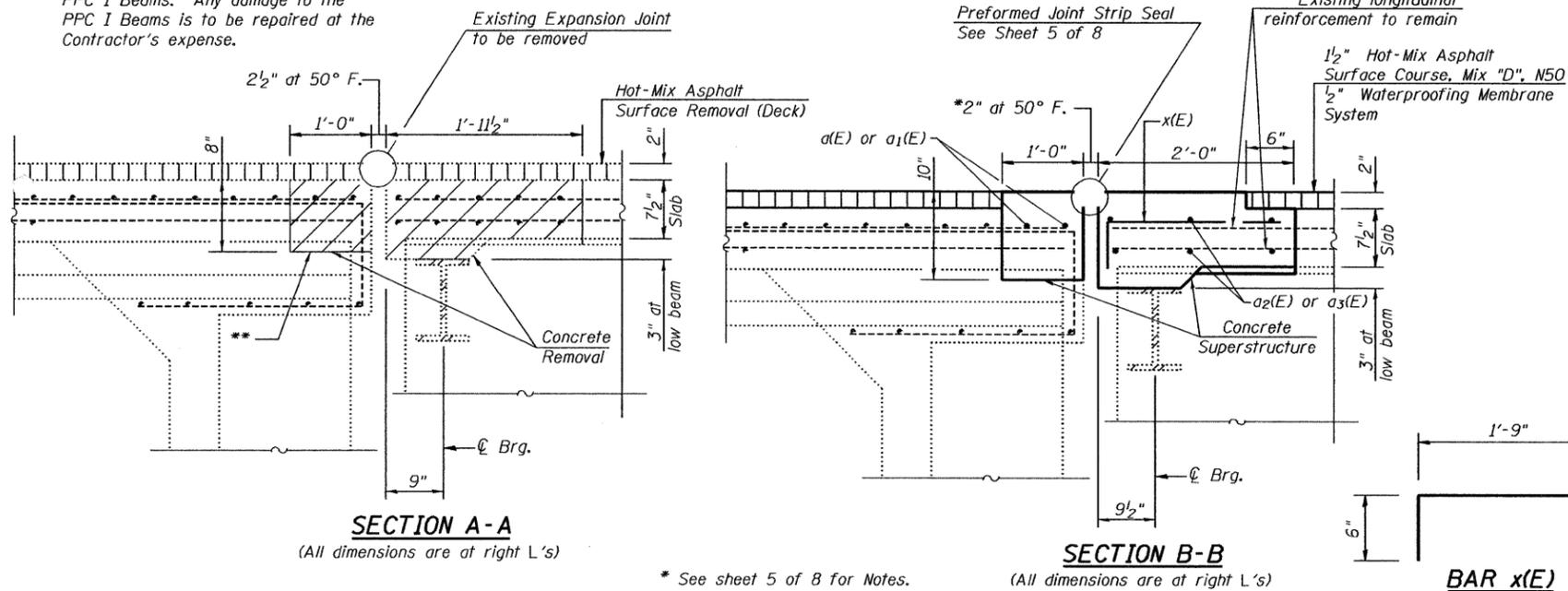
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
TYPICAL CROSS SECTIONS  
WITH STAGING  
167th STREET OVER I-57  
FAI RTE 57 SECTION 1011.3 I  
COOK COUNTY  
STATION 28+71.53  
STRUCTURE NO. 016-2125  
DATE: 11-06-2007  
DRAWN BY WJV  
CHECKED BY BLB

1/27/2009 14:11:25:50 \\structures\167th over I-57\016.dgn



\*\* The Contractor must exercise extreme care during Concrete Removal in this area so as not to damage the existing PPC I Beams. Any damage to the PPC I Beams is to be repaired at the Contractor's expense.



\* See sheet 5 of 8 for Notes.

**NOTES**

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following Concrete Removal operations to ensure that the existing rebar remaining in place are not damaged. All existing reinforcement to be incorporated into new construction shall be blast-cleaned, straightened, and properly positioned prior to concrete placement. Any reinforcement damaged during Concrete Removal shall be repaired or replaced using an approved Bar Splicer or Mechanical System. Cost included with Concrete Removal.

Existing reinforcement bars that are parallel to the expansion joint shall be removed.

Removal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#7	28'-11"	—
a <sub>1</sub> (E)	8	#7	16'-11"	—
a <sub>2</sub> (E)	24	#5	28'-11"	—
a <sub>3</sub> (E)	24	#5	16'-11"	—
d(E)	16	#6	4'-9"	┘
d <sub>1</sub> (E)	16	#4	2'-9"	┘
d <sub>2</sub> (E)	12	#4	6'-2"	┘
d <sub>3</sub> (E)	4	#4	6'-6"	┘
d <sub>4</sub> (E)	20	#4	3'-7"	┘
x(E)	174	#5	2'-3"	┘
Concrete Removal		Cu. Yd.	17.4	
Reinforcement Bars, Epoxy Coated		Pound	2530	
Concrete Superstructure		Cu. Yd.	20.2	
Protective Coat		Sq. Yd.	54	
Bar Splicers		Each	32	

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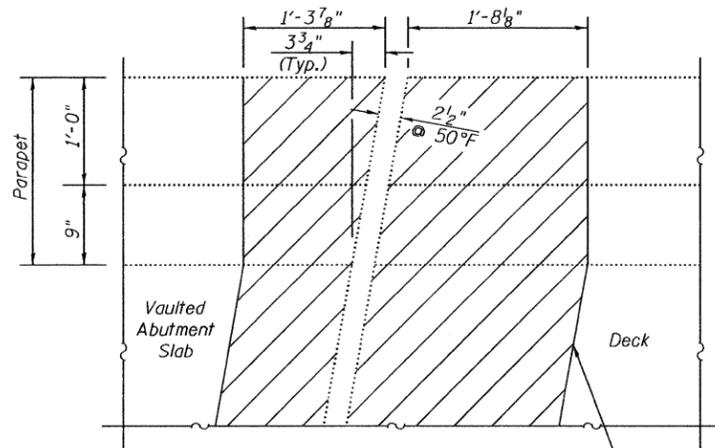
200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXPANSION JOINT REHABILITATION  
AT DECK  
167th STREET OVER I-57  
FAI RTE 57 SECTION 1011.3 I  
COOK COUNTY  
STATION 28+71.53  
STRUCTURE NO. 016-2125

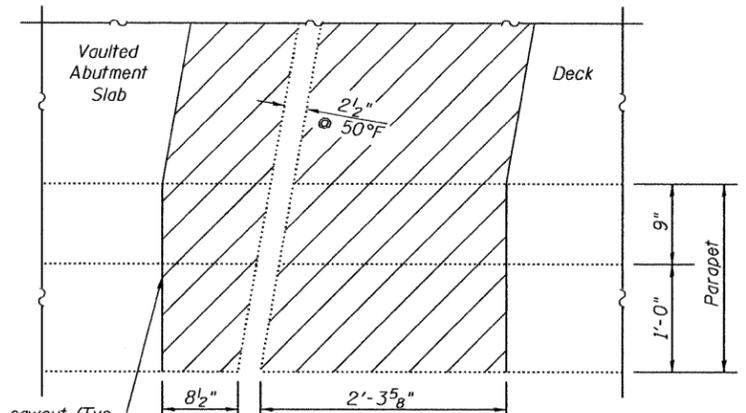
DATE: 11-06-2007

DRAWN BY WJV  
CHECKED BY BLB

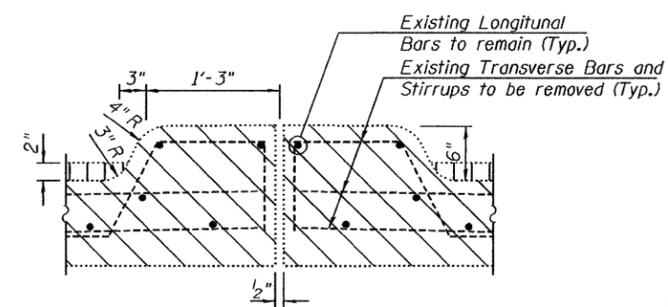
Contract #60D63



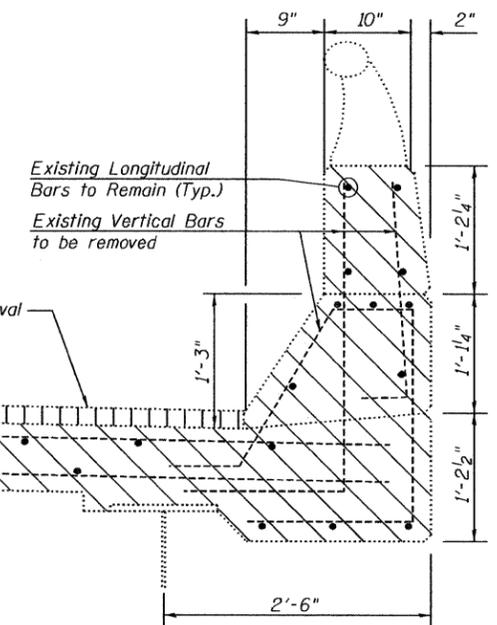
**PLAN - CONCRETE REMOVAL**  
(North End of W. Abut. and South End of E. Abut.)



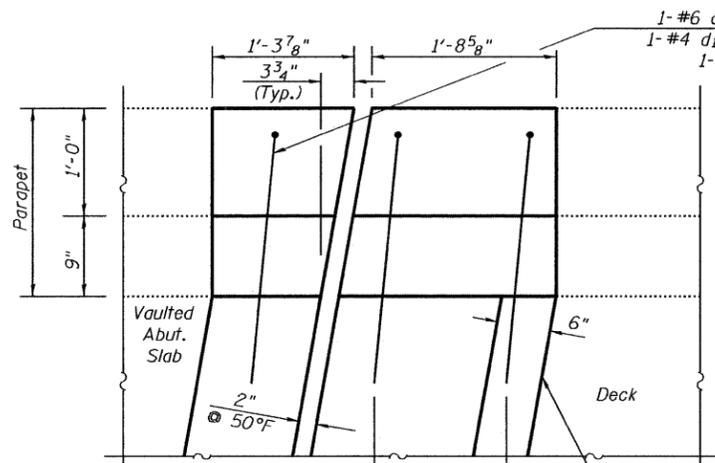
**PLAN - CONCRETE REMOVAL**  
(South End of W. Abut. and North End of E. Abut.)



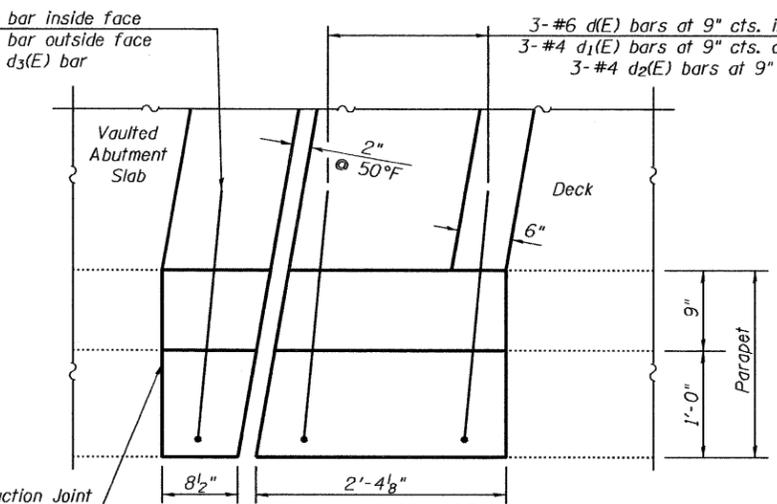
**SECTION THRU MEDIAN CONCRETE REMOVAL**



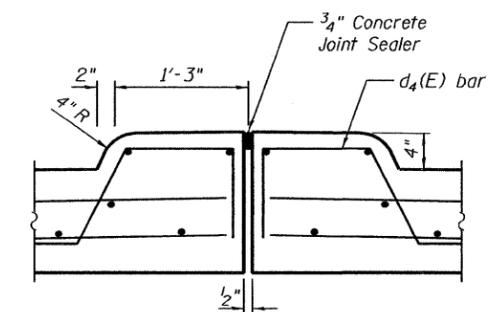
**SECTION THRU PARAPET & SOFFIT - CONCRETE REMOVAL**



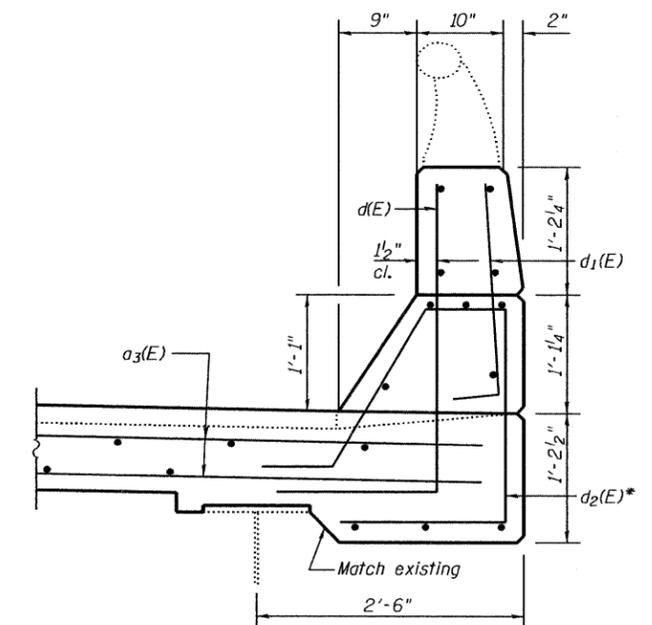
**PLAN - CONCRETE REPLACEMENT**  
(North End of W. Abut. and South End of E. Abut.)



**PLAN - CONCRETE REPLACEMENT**  
(South End of W. Abut. and North End of E. Abut.)



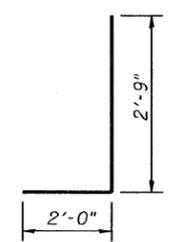
**SECTION THRU MEDIAN CONCRETE REPLACEMENT**



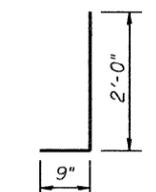
**SECTION THRU PARAPET & SOFFIT - CONCRETE REPLACEMENT**  
\*d3(E) in vaulted abutment slab

**NOTES**

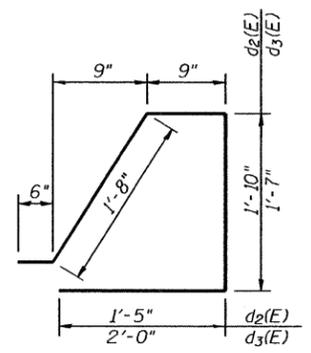
Interference is expected from the existing aluminum rail posts. The Contractor shall remove and reerect the existing bridge rail and post to complete the work as detailed. The existing aluminum rail post shall be reconnected to the reconstructed parapet utilizing the existing mounting bracket. Care shall be taken not to damage the existing bracket. The base of the rail post shall be sealed with two component non-staining gray sealing compound with polysulfide liquid polymers-gun grade with primer. All labor, equipment, and materials necessary for removing and reinstalling the bridge rail and bridge rail post shall be included in the cost for Concrete Superstructure. For simplicity, only proposed reinforcement critical to parapet placement is shown. For additional Notes and Bill of Material see Sheet 3 of 8.



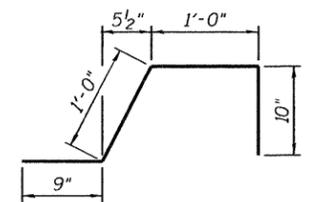
**BAR d(E)**



**BAR d1(E)**



**BAR d2(E) & d3(E)**



**BAR d4(E)**

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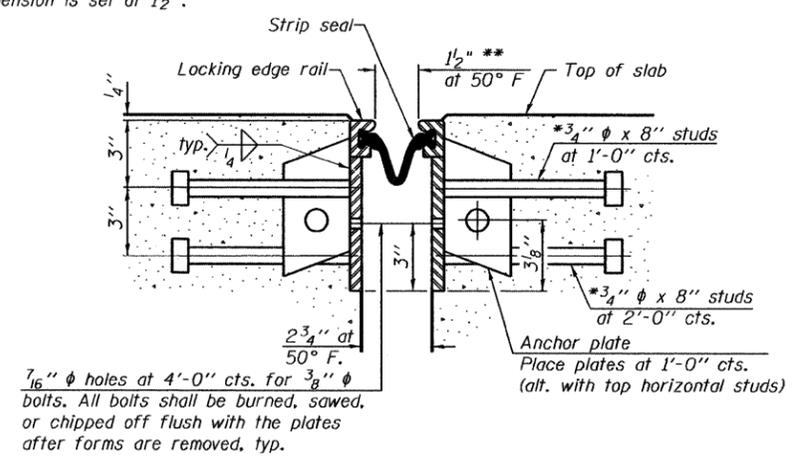
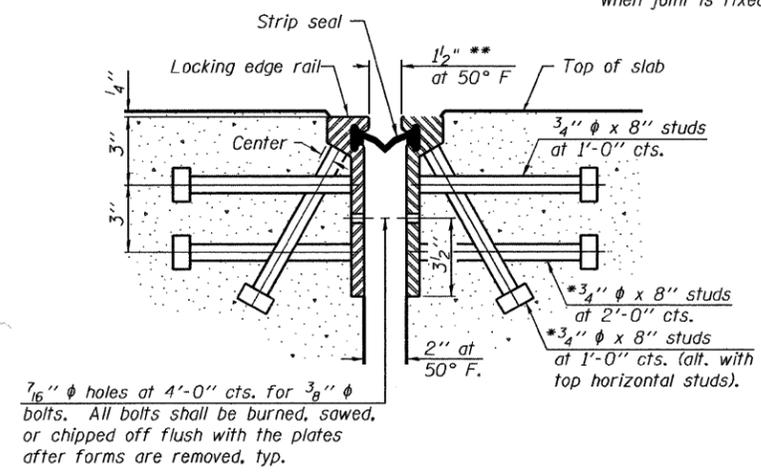
200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXPANSION JOINT REHABILITATION  
AT PARAPET AND SOFFIT  
167th STREET OVER I-57  
FAI RTE 57 SECTION 1011.3 I  
COOK COUNTY  
STATION 28+71.53  
STRUCTURE NO. 016-2125

DATE: 11-06-2007  
DRAWN BY: WJV  
CHECKED BY: BLB

Contract #60D63

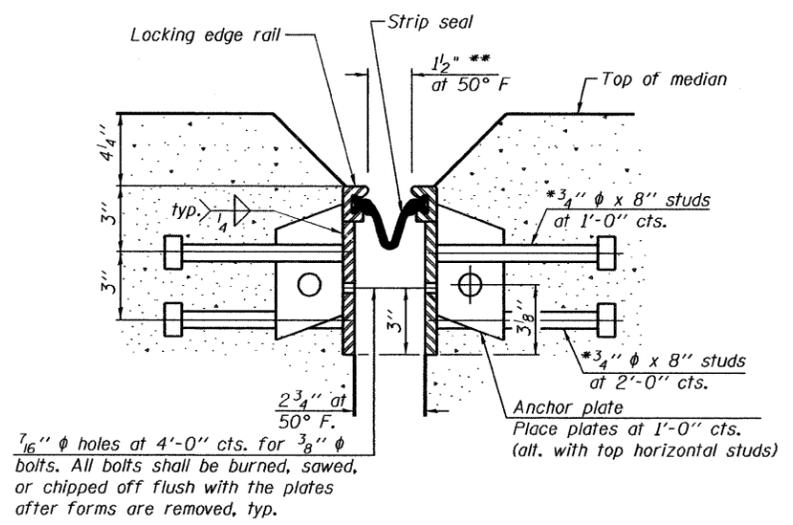
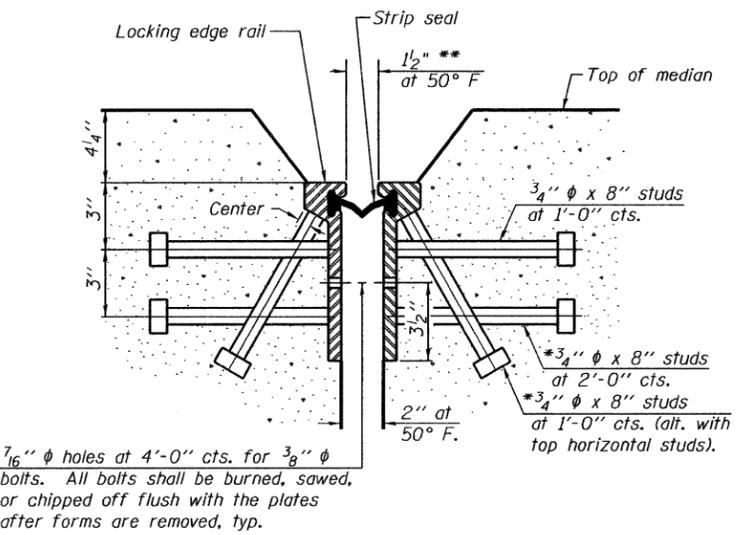
\*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.  
\*\*When joint is fixed, dimension is set at 1 1/2".



Notes:  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.  
The manufacturer's recommended installation methods shall be followed.  
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.  
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

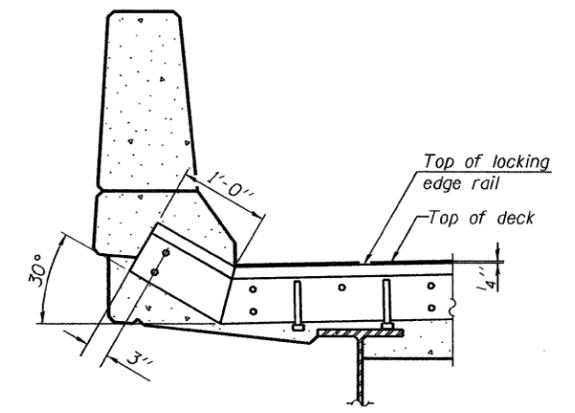
SECTION THRU ROLLED RAIL JOINT

SECTION THRU WELDED RAIL JOINT



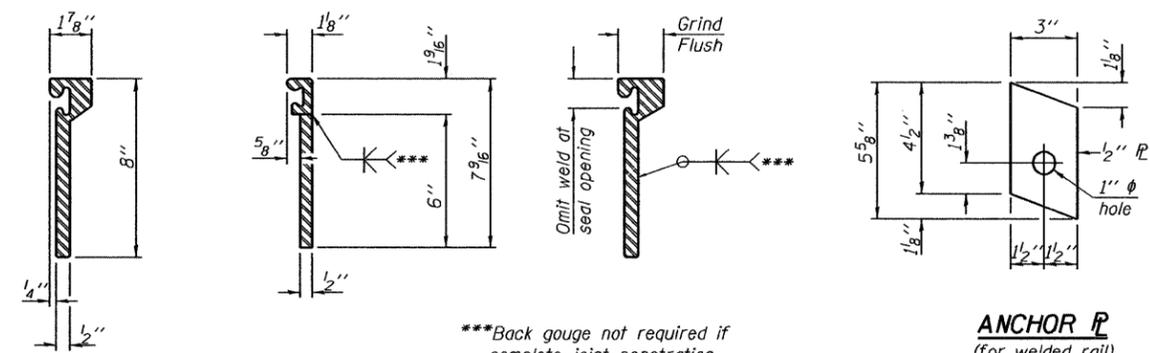
SECTION THRU ROLLED RAIL JOINT AT MEDIAN

\*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.  
\*\*When joint is fixed, dimension is set at 1 1/2".



AT PARAPET

TYPICAL END TREATMENTS



ANCHOR PLATE (For welded rail)

ROLLED (EXTRUDED) RAIL WELDED RAIL LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	180

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
PREFORMED JOINT STRIP SEAL  
167th STREET OVER I-57  
FAI RTE 57 SECTION 1011.3 I  
COOK COUNTY  
STATION 28+71.53  
STRUCTURE NO. 016-2125  
DATE: 11-06-2007  
DRAWN BY WJV  
CHECKED BY BLB

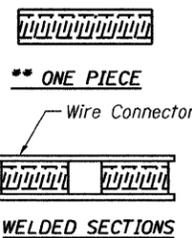
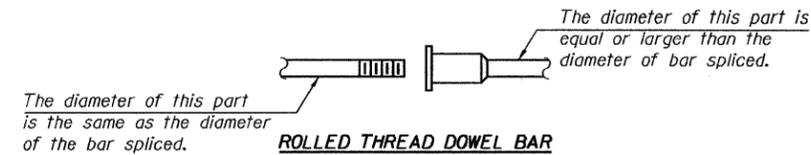
Contract #60D63

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

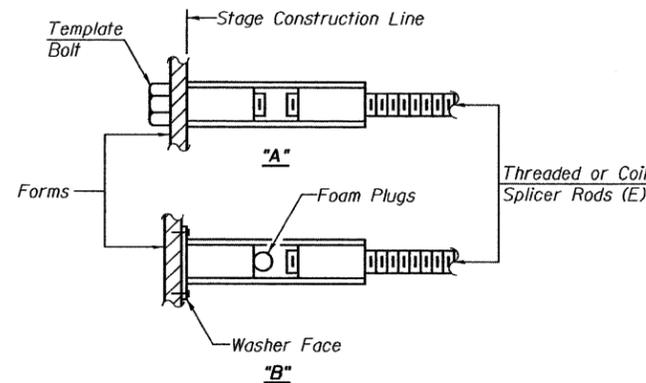
- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
  - ② Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
 \* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



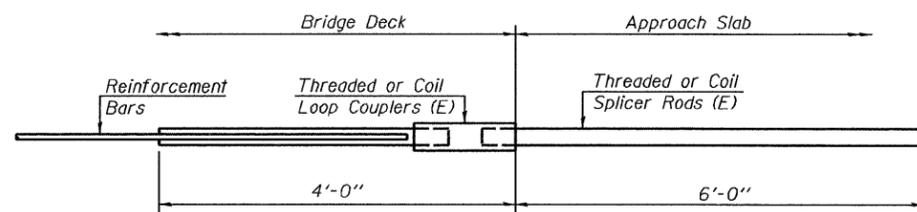
**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



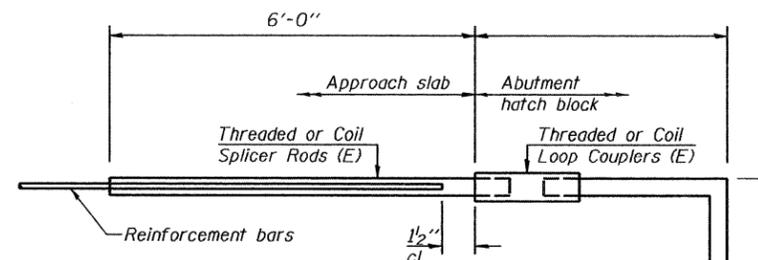
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



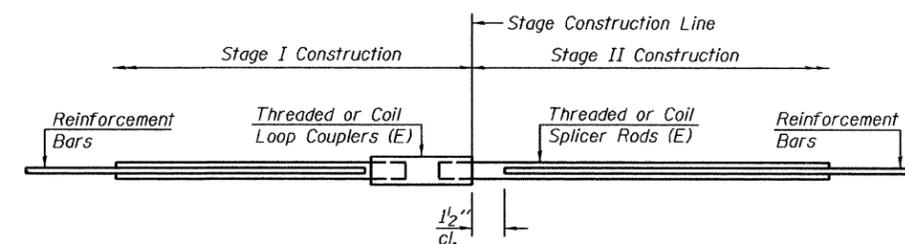
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



**FOR STUB ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



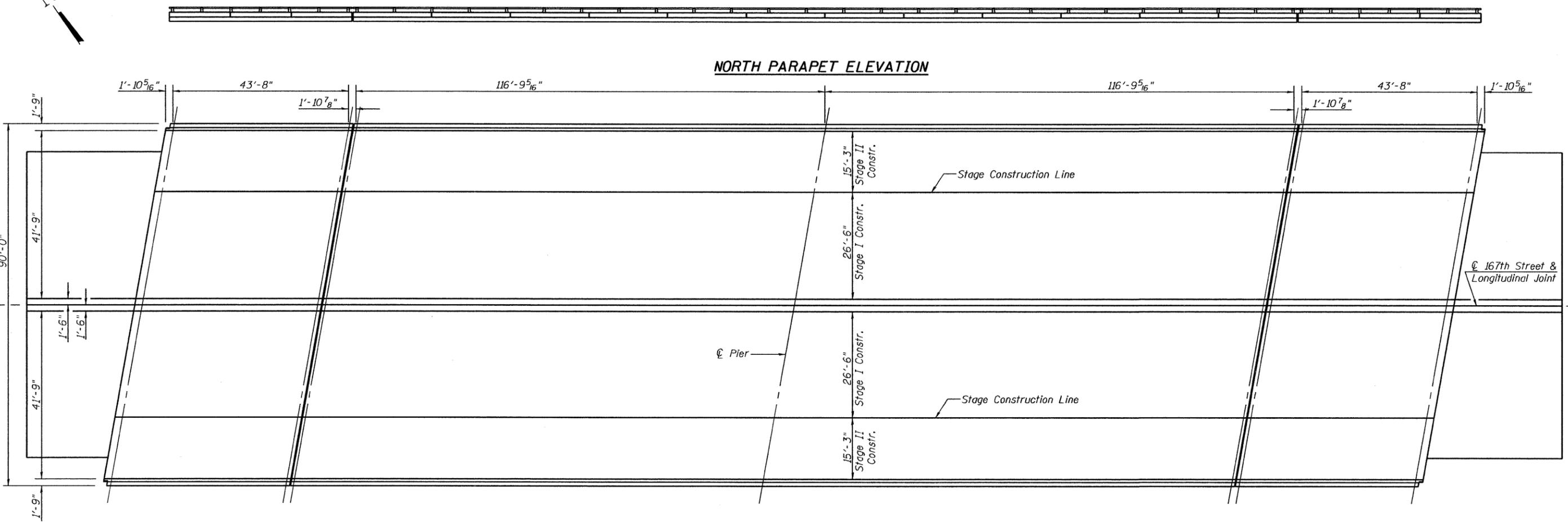
**STANDARD**

Bar Size	No. Assemblies Required	Location
#5	24	Deck
#7	8	Vaulted Slab

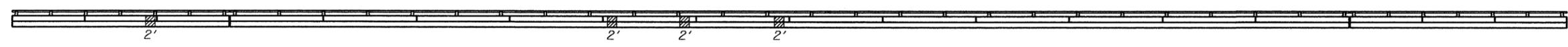
**rjngroup**  
 Excellence through Ownership  
 200 West Front Street  
 Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 BAR SPLICER ASSEMBLY DETAILS  
 167th STREET OVER I-57  
 FAI RTE 57 SECTION 1011.3 I  
 COOK COUNTY  
 STATION 28+71.53  
 STRUCTURE NO. 016-2125  
 DATE: 11-06-2007  
 DRAWN BY WJV  
 CHECKED BY BLB

Contract #6063



PLAN



SOUTH PARAPET ELEVATION

**NOTES**

- Existing HMA surface and W.P. Membrane shall be removed from entire deck.
- Entire existing deck to be overlaid with a 1/2" W.P. Membrane and 1 1/2" Hot-Mix Asphalt Surface Course, Mix "D", N50.
- Existing reinforcement bars & dowel rods extending into new concrete are to be cleaned and incorporated into new construction.
- Deck repair areas are estimated from IDOT in the Fall of 2007. Actual locations of repairs made shall be shown by the Engineer on As Built plans.
- Before performing the full depth deck repair, the Contractor shall have an Illinois Licensed Structural Engineer verify that the existing protective shield is adequate to satisfy Article 501.03 of the Standard Specifications. If not, the cost to make the Protective Shield satisfy Article 501.03 shall be included in the pay item "Deck Slab Repair (Full Depth, Type II)".
- The deck slab repair quantities are estimates from a Thermographic Survey. After removing the surface course the Contractor shall verify the quantities and determine the repair locations in the field.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	3044
Deck Slab Repair (Partial)	Sq. Yd.	632
Waterproofing Membrane System	Sq. Yd.	2998
Hot-Mix Asphalt Surface Course, Mix "D", N50	Ton	252
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	204
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	30

Structural Repair of Concrete (Depth equal to or less than 5")



200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DECK AND PARAPET  
REPAIR PLAN  
167th STREET OVER I-57  
FAI RTE 57 SECTION 1011.3 I  
COOK COUNTY  
STATION 28+71.53  
STRUCTURE NO. 016-2125

DATE: 11-06-2007

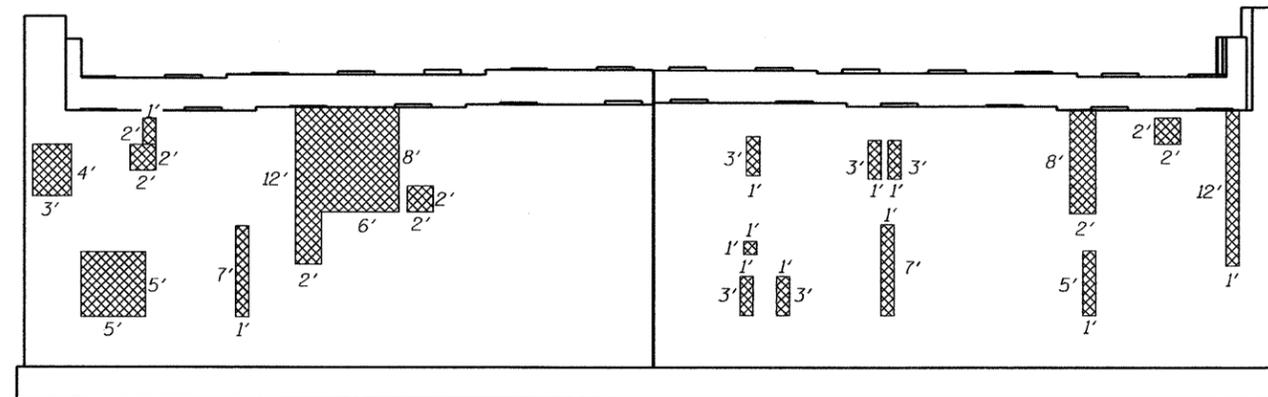
DRAWN BY JMT  
CHECKED BY WJV

I:\27\2007\11-12-2007\Structures\167th over I-57\Repairs.dgn

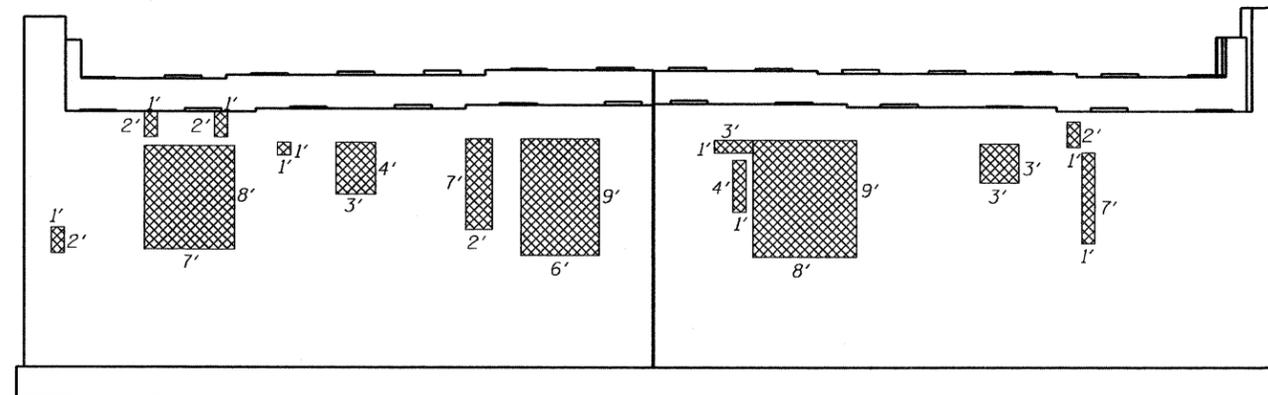
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAI 57	1011.3 I	Cook	21	16
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 8  
8 SHEETS

Contract #60D63



WEST ABUTMENT



EAST ABUTMENT

**NOTES**

Interference is expected from existing conduits. The Contractor shall remove and reerect or temporarily support the existing conduits to complete the work as detailed. When the work is completed the conduits shall be reconnected to the reconstructed abutment utilizing the existing mounting brackets or new mounting brackets. All labor, equipment, and materials necessary for removing and reinstalling or temporarily supporting the existing conduits shall be included in the cost for Structural Repair of Concrete (Depth equal to or less than 5").

**BILL OF MATERIAL**

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	426

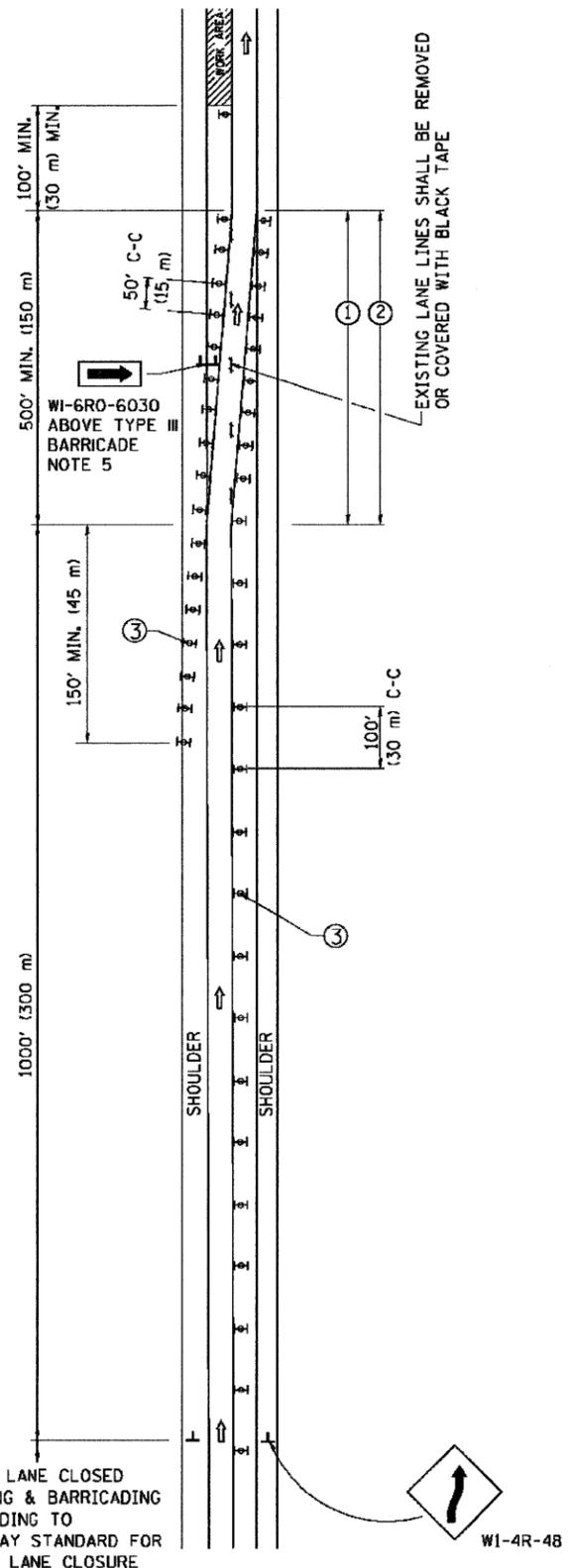
☒ Structural Repair of Concrete (Depth equal to or less than 5")

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>ABUTMENT REPAIRS 167th STREET OVER I-57 FAI RTE 57 SECTION 1011.3 I COOK COUNTY STATION 28+71.53 STRUCTURE NO. 016-2125</p>
	<p>DATE: 11-06-2007</p> <p>DRAWN BY JMT CHECKED BY WJV</p>

1/27/2009 14:12:50 \\structures\167th over I-57\Repairs.rvt

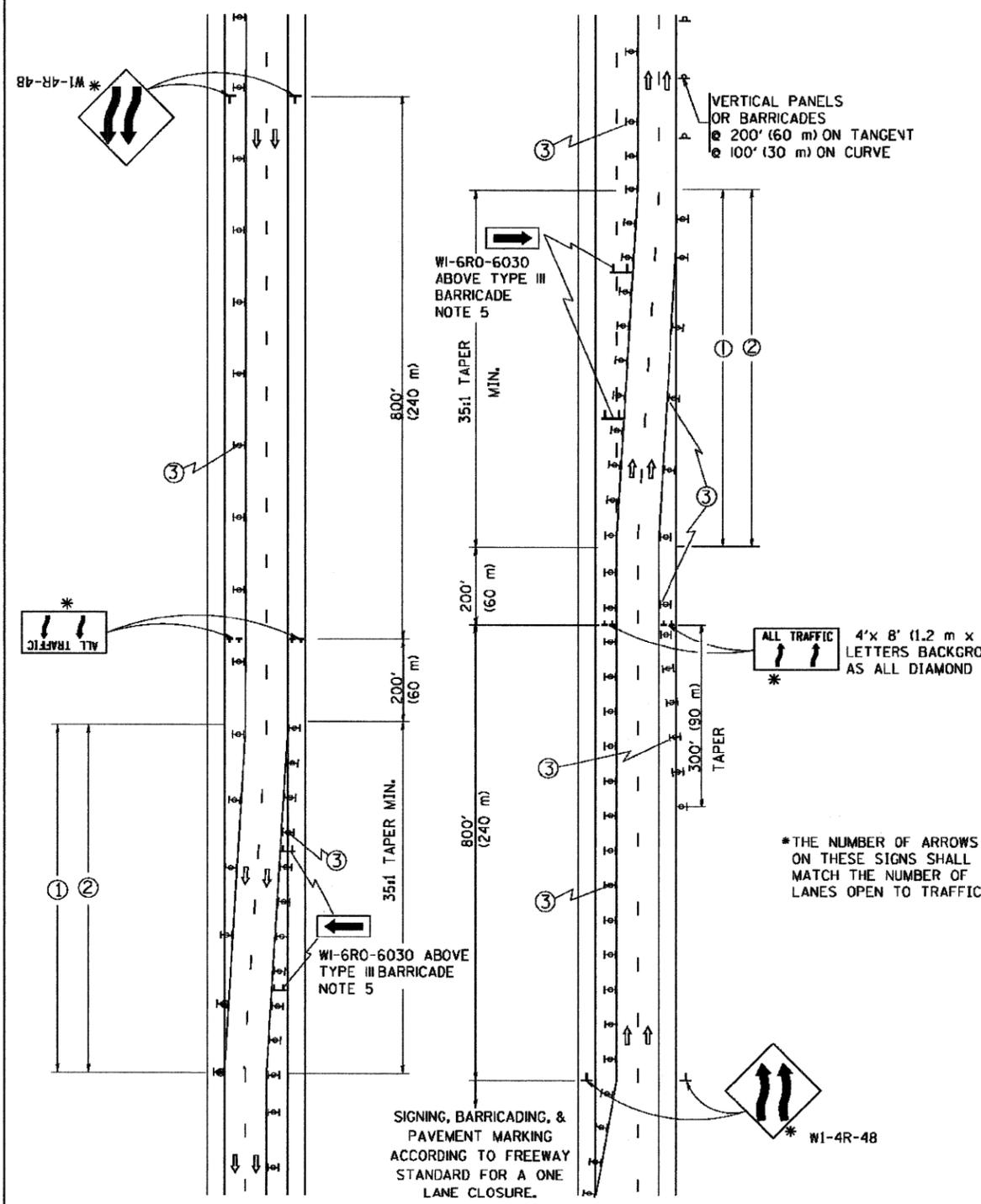
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### SINGLE LANE WEAVE



RIGHT LANE CLOSED  
SIGNING & BARRICADING  
ACCORDING TO  
FREEWAY STANDARD FOR  
A ONE LANE CLOSURE

### MULTI-LANE WEAVE



#### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

#### SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/21/94
DWS	11/96
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
SINGLE & MULTI-LANE WEAVE  
SCALE: NONE  
DRAWN BY R.H.  
CHECKED BY TC-9

FILE NAME: p:\2007\me07088\_vor\var\_ph1\cadd\W01\Bose\SH1\_167\TC0901.DETAILS.sht  
PLOT SCALE: 1:8000  
USER NAME: Millenna Engineering

**MILLENNIA ENGINEERING**  
200 22ND Street, Suite 216, Lombard, IL 60148  
630.705.8110 voice, 630.839.2566 fax  
www.millenniaeng.com

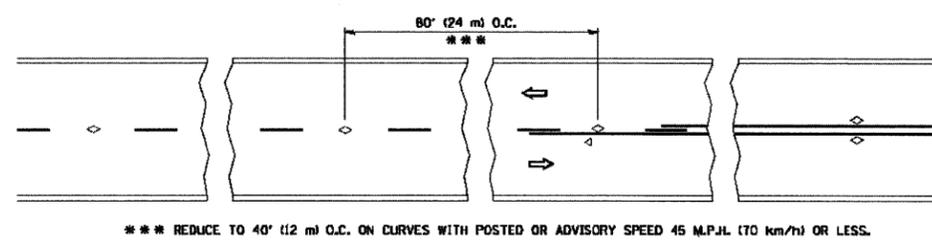
DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/19/2009	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

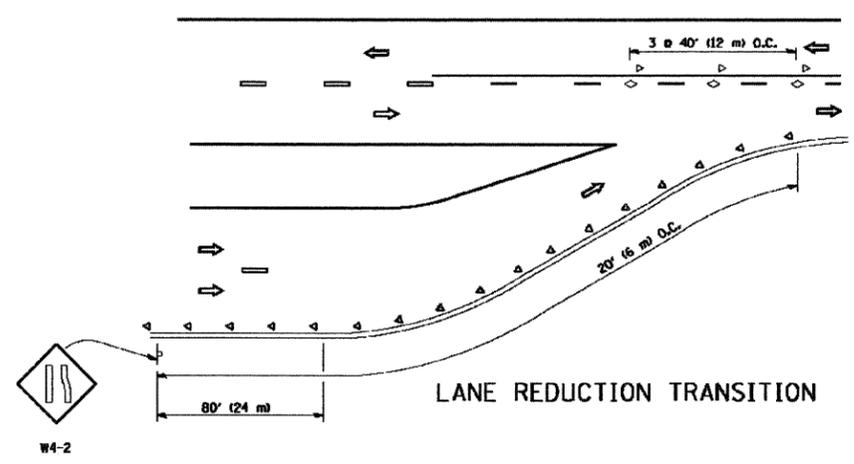
FAI 57/I-57  
AT 167TH STREET  
DISTRICT ONE STANDARD DETAILS  
TC-09  
SCALE: SHEET NO. 17 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.31	COOK	21	17
CONTRACT NO. 60D63				

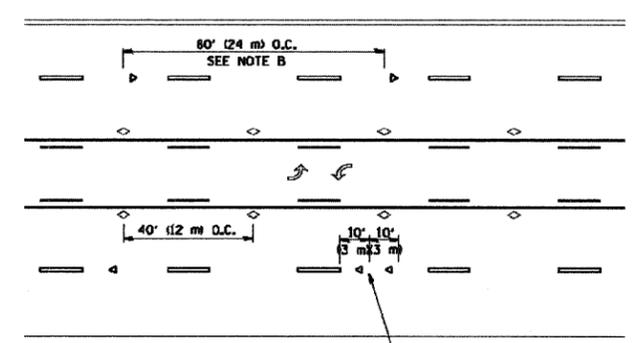
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT  
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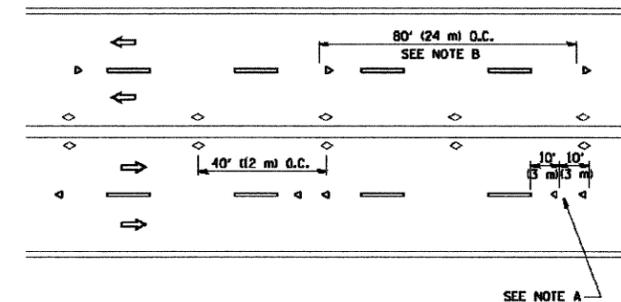
TWO-LANE/TWO-WAY



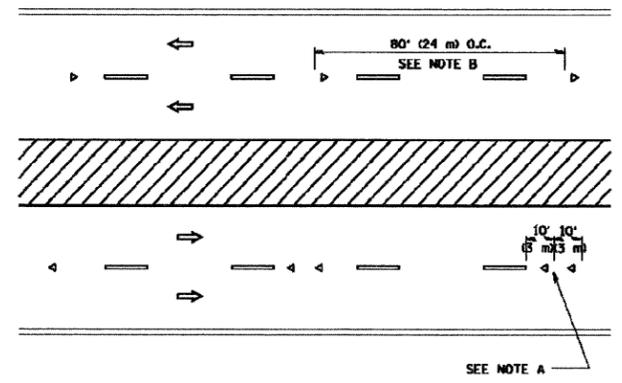
LANE REDUCTION TRANSITION



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

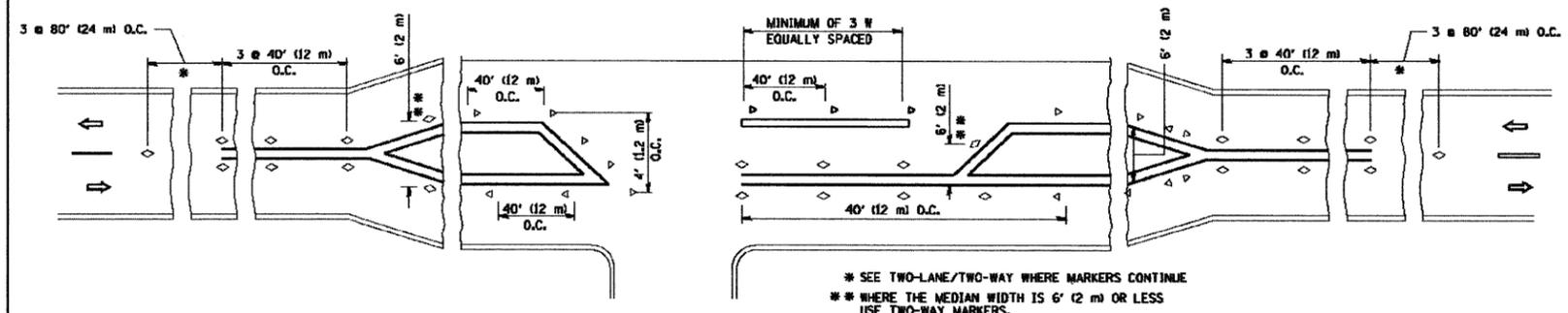
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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 SHOULD BE INCLUDED IN THE PLANS.
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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT  
 MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE  
 DRAWN BY CADD  
 CHECKED BY TC-11

FILE NAME = p:\2007\me\7888\varver\_phi\cadd\W01\Bese\SH1\_167\TC11D1.DETAILS.sht  
 PLOT SCALE = 1:8000 / IN.  
 USER NAME = Millennium Engineering

200 22ND Street, Suite 216, Lombard, IL 60148  
 630.705.4110 voice, 630.839.2566 fax  
 www.millenniaeng.com  
**MILLENNIA ENGINEERING**

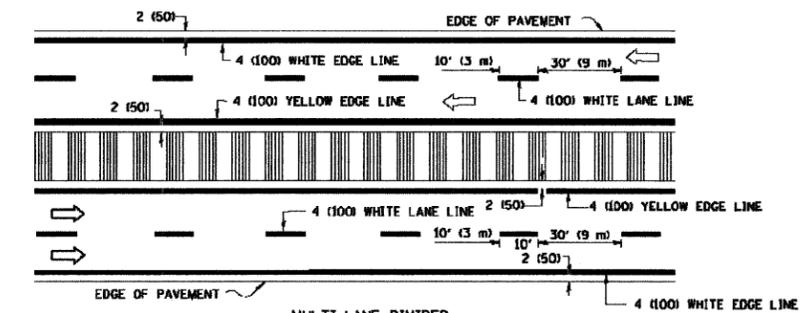
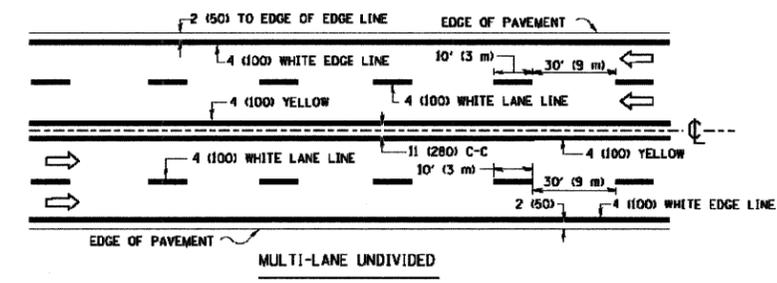
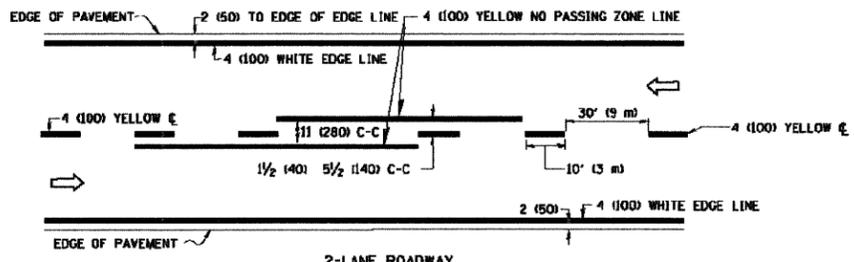
DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/19/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAI 57/I-57  
 AT 167TH STREET**

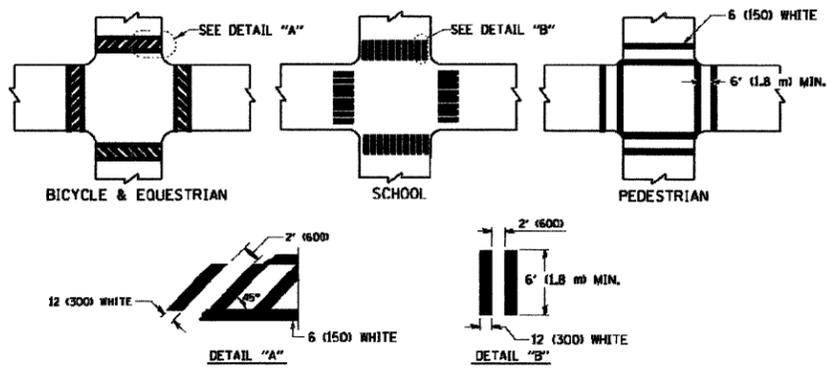
SCALE: SHEET NO. 18 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3I	COOK	21	18
CONTRACT NO. 60D63				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

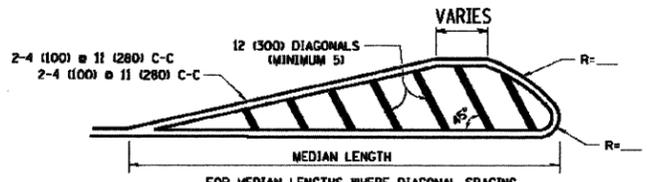
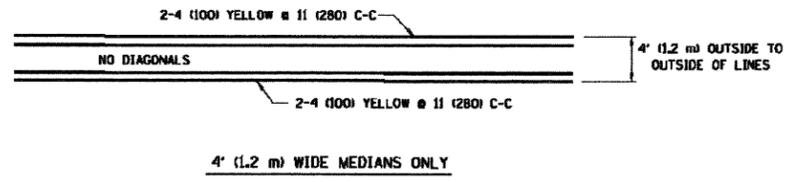


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

**TYPICAL LANE AND EDGE LINE MARKING**

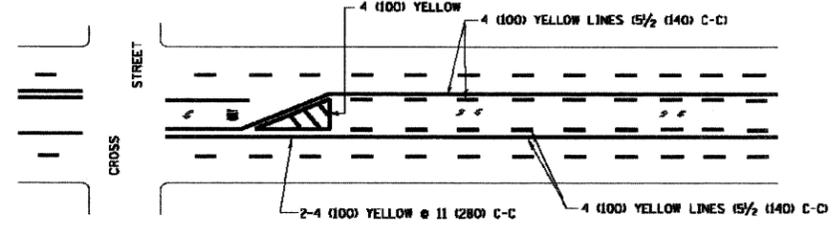


**TYPICAL CROSSWALK MARKING**

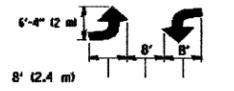


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

**MEDIANS OVER 4' (1.2 m) WIDE**

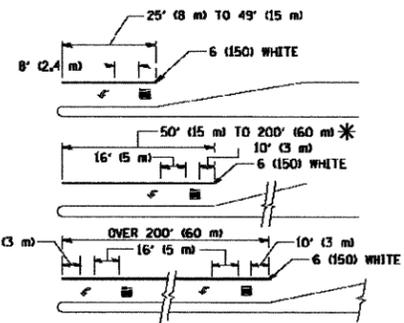


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

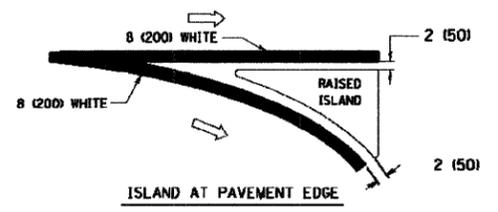
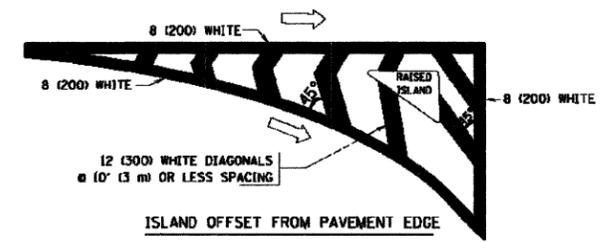
**TYPICAL PAINTED MEDIAN MARKING**



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* 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**



**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 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.
CORE 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 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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 (millimeter) unless otherwise shown.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMWACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMWACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT ONE  
TYPICAL PAVEMENT  
MARKINGS**

SCALE: NONE  
DRAWN BY CADD  
CHECKED BY  
TC-13

FILE NAME = p:\2207\me07080\_vorvor\_phi\cadd\MOI\Bases\SH1.167\TC1301.DETAILS.sht  
PLOT SCALE = 1:6000 / IN.  
USER NAME = Millennia Engineering

200 22ND Street, Suite 216, Lombard, IL 60148  
630.705.0110 voice, 630.839.2566 fax  
www.milleniaeng.com  
**MILLENNIA ENGINEERING**

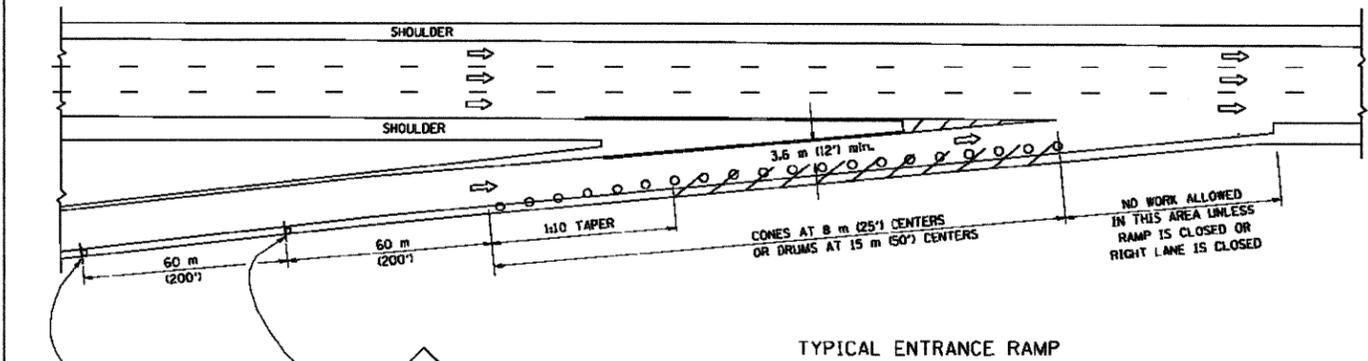
DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/19/2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

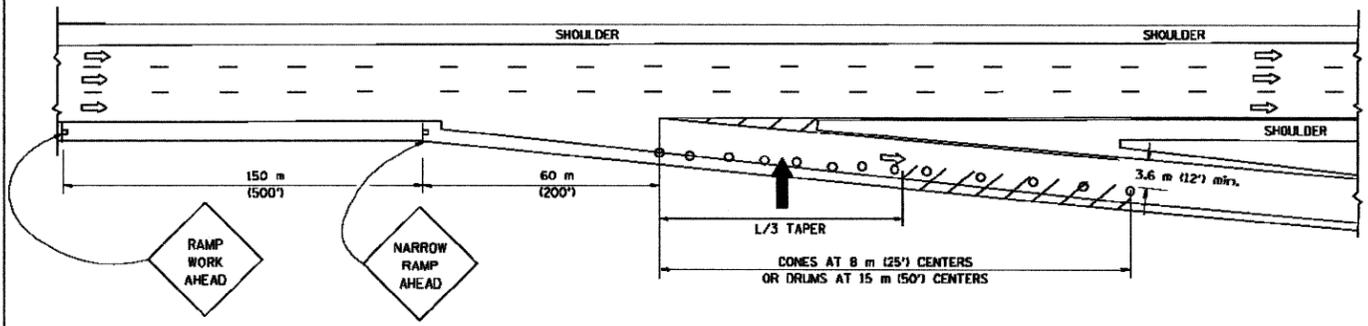
**FAI 57/1-57  
AT 167TH STREET**  
SCALE: SHEET NO. 19 OF 21 SHEETS

F.A.I. RTE. 57	SECTION 1011.31	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 19
CONTRACT NO. 60D63				

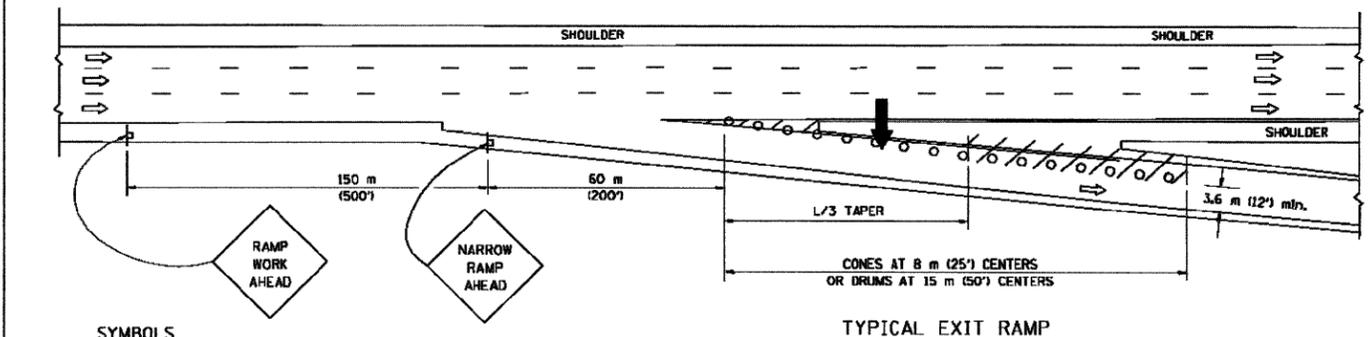
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

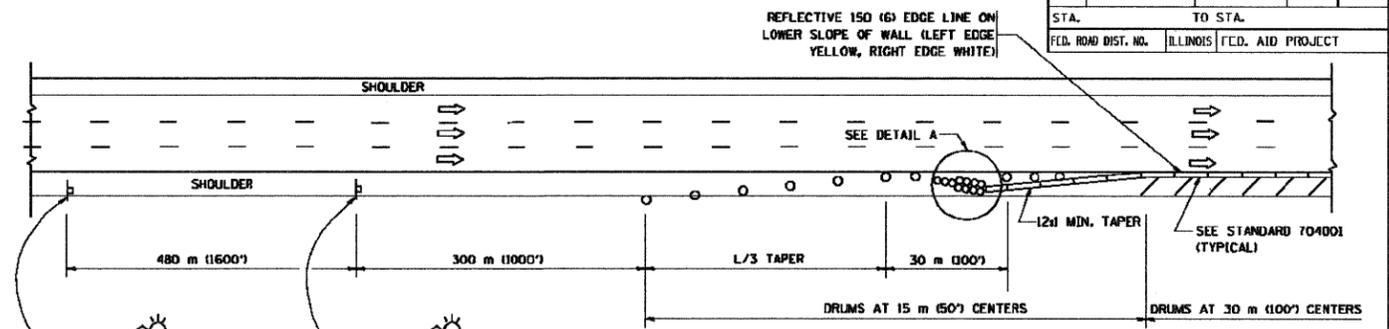
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28") IN HEIGHT

GENERAL NOTES

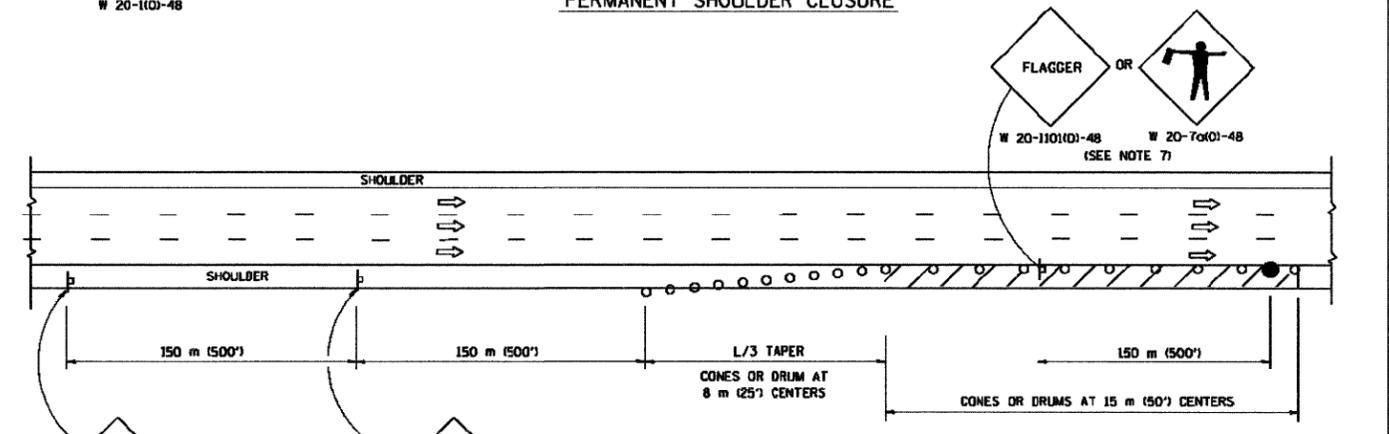
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
80 km/h (45 mph) OR GREATER	METRIC    ENGLISH
	$L = 0.65(W/S)$ $L = (W/S)$
	W = WIDTH OF OFFSET IN METERS (FEET)
	S = NORMAL POSTED SPEED KM/H (MPH)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

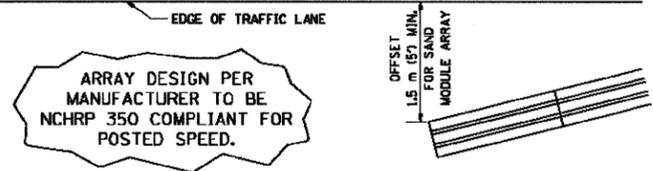


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAYEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
SHOULDER CLOSURES  
PARTIAL RAMP CLOSURES

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

SCALE: NONE  
DATE: 05/06/2003  
DRAWN BY: DWS  
CHECKED BY: TC-17

FILE NAME: p:\2007\me07080\_vorvar\_phi\cadd\W01\Bases\SH1\_167\TC17D1.DETAILS.sht  
 USER: JAF  
 DATE: 05/06/2003 10:20:00 AM  
 PLOT: 05/06/2003 10:20:00 AM  
 PLOTTER: Millenia Engineering

05/06/2003  
c:\nro\jaf\stat\stat07.dgn

**MILLENNIA ENGINEERING**  
 200 22ND Street, Suite 216, Lombard, IL 60148  
 630.785.0110 voice, 630.839.2566 fax  
 www.milleniaeng.com

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/19/2009	REVISED -

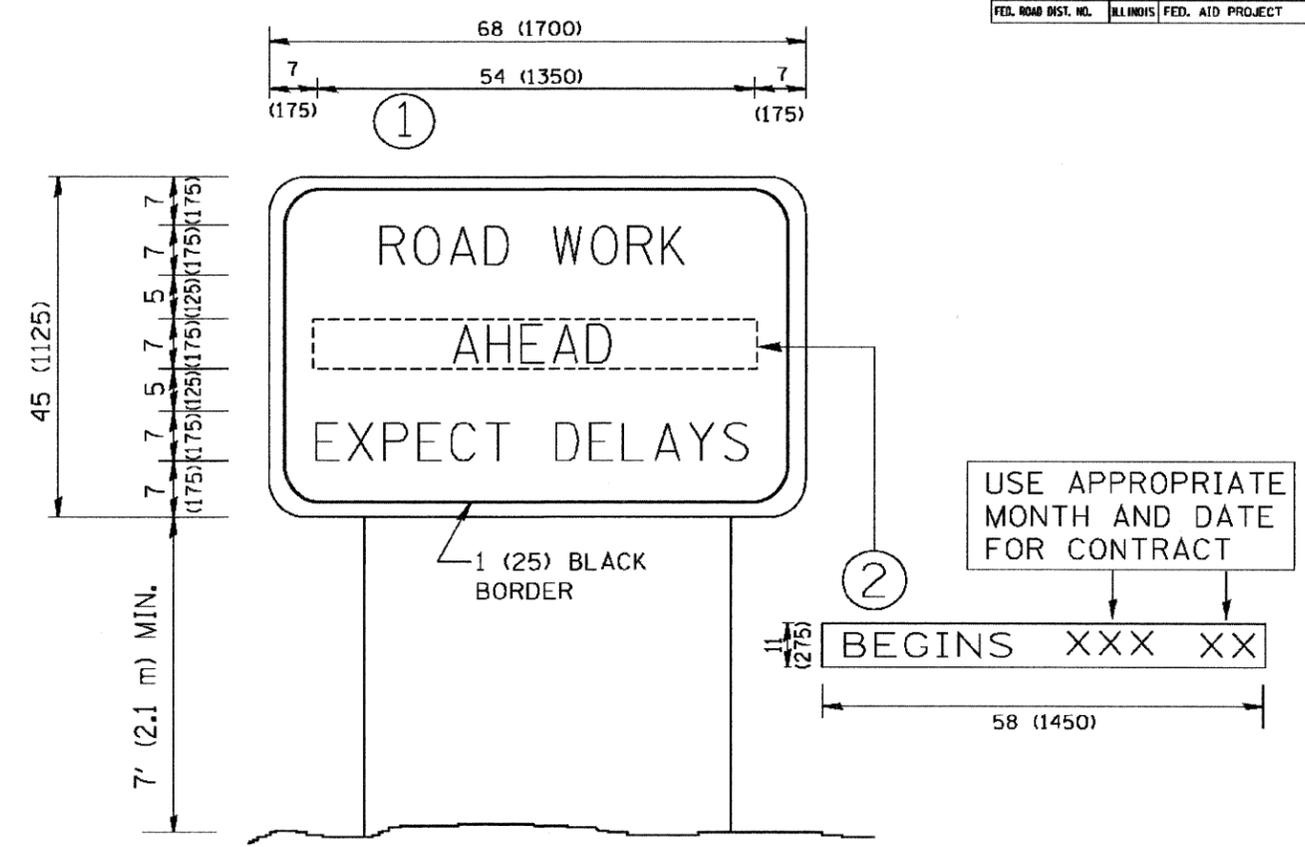
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAI 57/1-57  
AT 167TH STREET  
SCALE: SHEET NO. 20 OF 21 SHEETS

DISTRICT ONE STANDARD DETAILS  
TC-17  
STA. TO STA.

F.A.I. RTE. 57	SECTION 1011.3I	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 20
CONTRACT NO. 60D63				

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	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.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCLIS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ARTERIAL ROAD INFORMATION SIGN**  
SCALE: NONE  
DRAWN BY DESIGN  
CHECKED BY  
TC22

FILE NAME: p:\2007\me07080\_vorvar\_phi\cadd\MOI\Bases\SH1.167\TC2201.DETAILS.sht  
 PLOT SCALE: 1:2000 7 IN.  
 USER NAME: Millennium Engineering

200 22ND Street, Suite 216, Lombard, IL 60148  
630.705.0110 voice, 630.839.2566 fax  
www.millenniaeng.com  
**MILLENNIA ENGINEERING**

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 1/19/2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FAI 57/I-57  
AT 167TH STREET**  
SCALE: SHEET NO. 21 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3I	COOK	21	21
CONTRACT NO. 60D63				