

03-08-2019 LETTING ITEM 065

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. R.T.L.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	14	7
		ILLINOIS	CONTRACT NO. 70D54	

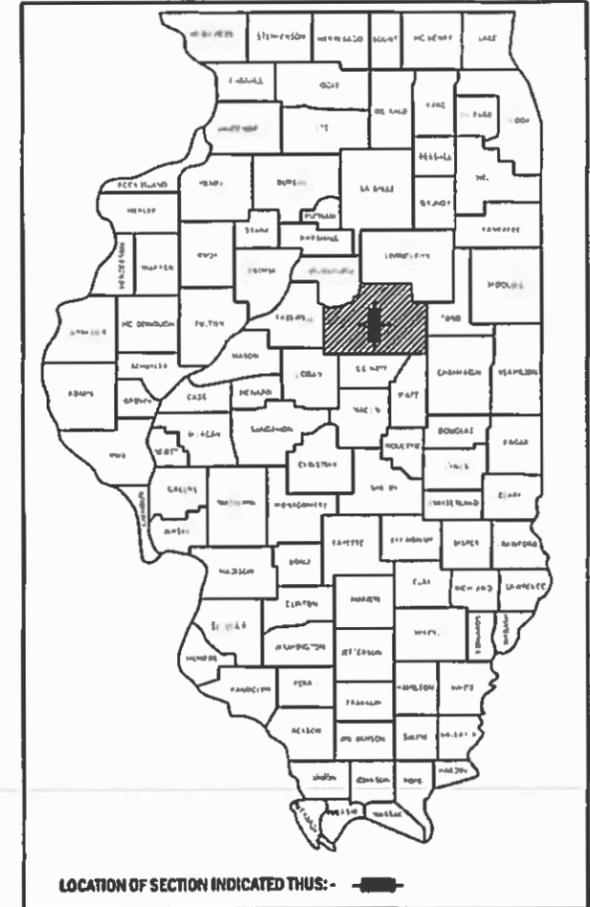
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55/74 (I-55/74)
SECTION (MBPM 2019)BJR
PROJECT NHPP-43PC(517)
BRIDGE JOINT REPAIR
MCLEAN COUNTY

C-95-011-19

D-95-081-18



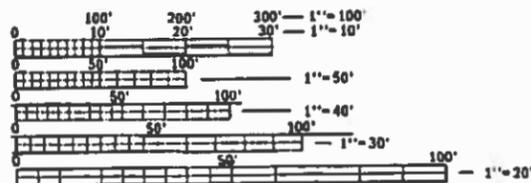
CURRENT TRAFFIC DATA

FAI-55/74

2017	ADT	47,000
2027	ADT	51,200
2037	ADT	55,000
2037	OHV	4,290
	PU/PC%	70.8
	SU %	3.7
	MU %	25.5

DESIGN DESIGNATION

FAI-55/74 - INTERSTATE



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

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

PROJECT ENGINEER: TIM BRANDENBURG
SQUAD LEADER: JEFF M. SHERER

CONTRACT NO. 70D54

S.N. 057-0018 STA. 403+09.52 NB
S.N. 057-0019 STA. 403+09.52 SB
BRIDGE JOINT REPAIR



GROSS LENGTH = 548.00 FT. = 0.104 MILE
NET LENGTH = 548.00 FT. = 0.104 MILE



REV. 1/28/19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 11 2018
Paul C. Jones
 REGIONAL ENGINEER
Feb 1 2019
 ENGINEER OF DESIGN AND ENVIRONMENT
Paul P. Ch...
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS/ GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-6	S.N. 057-0018 & 057-0019 REPAIR DETAILS
7-9	DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)
10-13	AS-BUILT PLANS
14	DETAIL OF PAVEMENT MARKING

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE 15' to 24" FROM EDGE OF PAVEMENT
701400-09	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE FREEWAY/ EXPRESSWAY
701406-12	LANE CLOSURE FREEWAY/ EXPRESSWAY DAY OPERATIONS ONLY
701428-01	TRAFFIC CONTROL SETUP/REMOVAL FREEWAY/ EXPRESSWAY
701446-09	TWO-LANE CLOSURE FREEWAY/ EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-107.12

THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

Mr. Scott Overbey
 Engineer of Public Improvements
 Norfolk Southern Railway Company
 1200 Peachtree St., NE
 Atlanta, GA 30309
 (404) 582-5588

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD CONTACT PERSON FOR FLAGGERS IS:

FLAGGING WILL BE ASSIGNED BY NORFOLK SOUTHERN ONCE THEIR RIGHT OF ENTRY AND INSURANCE REQUIREMENTS HAVE BEEN MET

SOME RAILROADS REQUIRE CONTRACTORS TO OBTAIN A RIGHT OF ENTRY PERMIT BEFORE ENTERING UPON RAILROAD RIGHT OF WAY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A RAILROAD RIGHT OF ENTRY PERMIT FROM THE RAILROAD IF REQUIRED BY THE RAILROAD(S).

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM AUGUST, 2018 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY ENGINEER. ADDITIONAL PATCHING QUANTITIES HAVE BEEN PROVIDED FOR THE ENGINEER TO USE AFTER FIELD REVIEW. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

MODEL: 4400.DWG.NAMES
 FILE NAME: p:\1108\BARDIN\TEG_ILI\inois.gov-PWD\DOT\Documents\DOT_Offices\District_3\Projects\0570D54\CADD\Drawings\Structures\0570D54-sh-GenNote.dgn

USER NAME = shererjm	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE - 101818	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS/ HIGHWAY STANDARDS
 GENERAL NOTES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	2	14
CONTRACT NO. 70D54				
ILLINOIS FED. AID PROJECT				

MODEL: 4400.DEL.NAMES
 FILE NAME: p:\1108\BARDIN\TEG.illinois.gov\PWIDOT\Documents\DOT_Offices\District_3\Projects\70D54\CADD\Structures\70D54-ph-S00.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	MCLEAN COUNTY	MCLEAN COUNTY
				FAI-55/FAI-74 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0018 90% FED, 10% STATE 0047	FAI-55/FAI-74 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0019 90% FED, 10% STATE 0047
50157300	PROTECTIVE SHIELD	SQ YD	73.0	73.0	0.0
67100100	MOBILIZATION	LSUM	1.0	0.50	0.50
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1.0	0.50	0.50
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	LSUM	1.0	0.50	0.50
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	LSUM	1.0	0.50	0.50
X1200030	FILLING INLETS, TEMPORARY	EACH	19.0	9.0	10.0
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	2.0	1.0	1.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	2.0	1.0	1.0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	16.0	8.0	8.0
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	17.0	0.0	17.0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	33		33
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	24.0	24.0	0.0
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	176.0	167.0	9.0
Z0021912	SILICONE JOINT SEALER, 2.5"	FOOT	220.0	110.0	110.0
Z0021916	SILICONE JOINT SEALER, 3.0"	FOOT	220.0	110.0	110.0
Z0041895	POLYMER CONCRETE	CU FT	74	37	37
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0	0.5	0.5

USER NAME = shererjm	DESIGNED - JMS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - JMS	REVISED -
PLOT DATE = 12/11/2018	CHECKED -	REVISED -
	DATE - 08/29/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

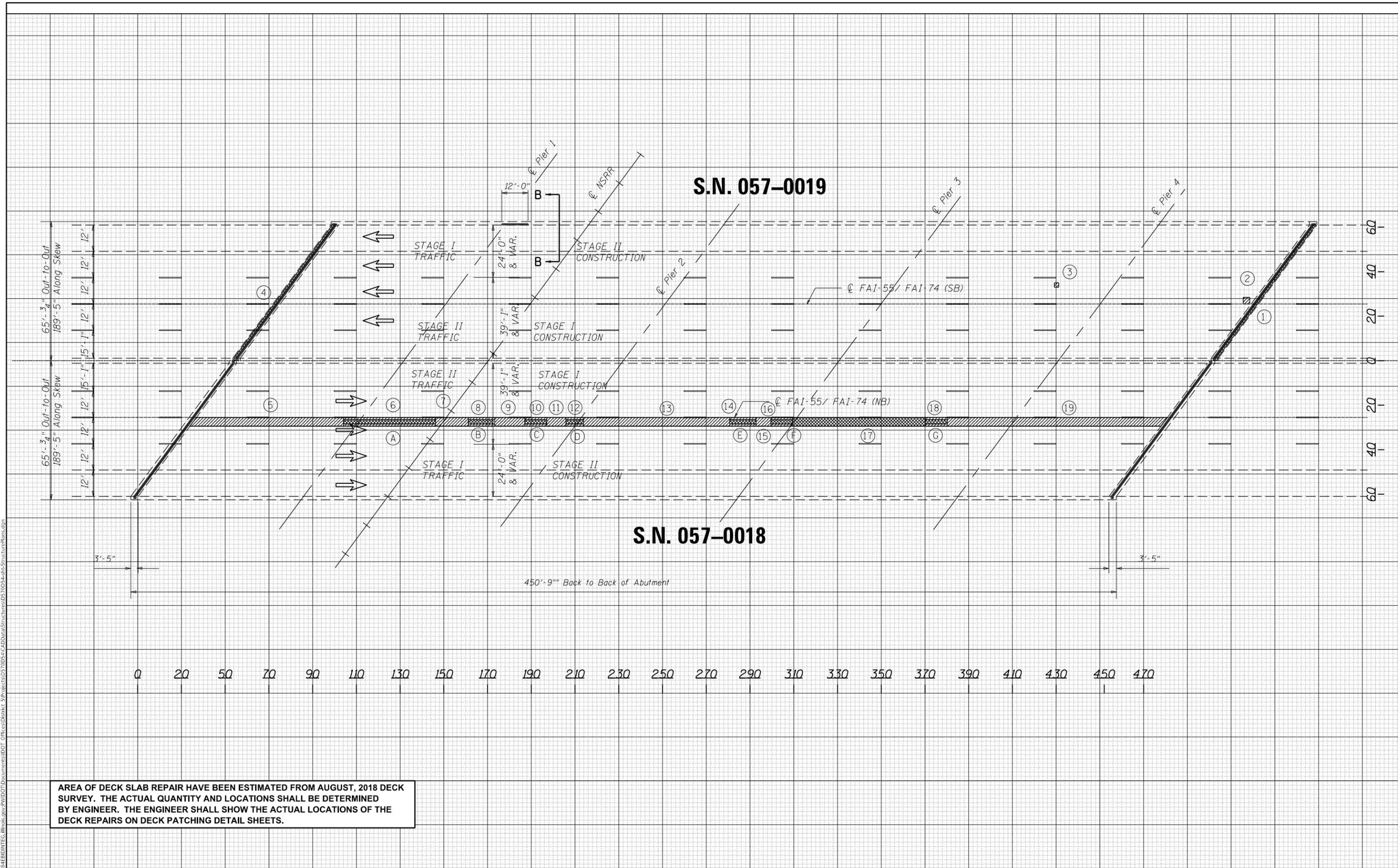
SCALE: NONE SHEET 2 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 55/74	SECTION (MBPM 2019)BJR	COUNTY MCLEAN	TOTAL SHEETS 3	SHEET NO. 14
CONTRACT NO. 70D54			ILLINOIS FED. AID PROJECT	

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

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

MODEL: SH06ELMAME5
 FILE NAME: pwwllghbndntec_illinois.pwd\DOT\Documents\DOT_Circles\District_3\Projects\057005-CADD\Data\Structures\057005-5-1-18-StructurePlans.dgn



AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM AUGUST, 2018 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

USER NAME = shererjm	DESIGNED - JMS	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - JMS	REVISED -
PLOT DATE = 12/11/2018	CHECKED -	REVISED -
	DATE - 101818	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAIL OF PATCHING			
S.N. 057-0018 & 057-0019			
SCALE: 1' = 20'	SHEET 2	OF 6 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	5	14
70D54			ILLINOIS FED. AID PROJECT	

MODEL: \\MODELMAME.
 FILE: \\MODELMAME\PROJECTS\0570054\CADD\DATA\STRUCTURES\0570054\PH-STRUCTURE\BARS.dgn

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD	SQ YD
1	110.0	0.67	8.2		
2	3.0	3.0		1.0	
3	2.0	2.0		0.4	
4	110.0	0.67	8.2		
5	68.8	4		30.6	
6	42.0	2		9.3	
7	15.0	4		6.7	
8	12.0	2		2.7	
9	13.0	4		5.8	
10	10.0	2		2.2	

SUB-TOTAL = 16.4 58.6 0.0

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (FULL DEPTH T2)
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD	SQ YD
11	8.8	4		3.9	
12	8	2		1.8	
13	66.9	4		29.7	
14	12	2		2.7	
15	6.8	4		3.0	
16	10	2		2.2	
17	60.6	4		26.9	
18	10	2		2.2	
19	99.2	4		44.1	

SUB-TOTAL = 0.0 116.6 0.0

PATCH NO.	SIZE		APPROACH SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (PARTIAL DEPTH)	DECK SLAB REPAIR (FULL DEPTH T2)	PROTECTIVE SHIELD
	LENGTH (FT)	WIDTH (FT)	SQ YD	SQ YD	SQ YD	SQ YD
A	42	2			9.3	29.4
B	12	2			2.7	8.4
C	10	2			2.2	7
D	8	2			1.8	5.6
E	12	2			2.7	8.4
F	10	2			2.2	7
G	10	2			2.2	7

SUB-TOTAL = 0.0 0.0 23.1 72.8

TOTAL = 16.4 175.2 23.1 72.8

USE = 17.0 176.0 24.0 73.0

PROTECTIVE SHIELD TO BE PLACED BETWEEN BEAMS AT LOCATIONS OF DECK SLAB REPAIR (FULL DEPTH) AREAS PRIOR TO CONSTRUCTION.

USER NAME = shererjm	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE - 101818	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PATCHING SCHEDULES
S.N. 057-0018 & S.N. 057-0019**

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM2019)BJR	MCLEAN	6	14
CONTRACT NO. 70D54			ILLINOIS FED. AID PROJECT	

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TRAFFIC CONTROL (SPECIAL) SEE HIGHWAY STANDARDS 701400, 701400, 701401& 701406 701428 & 701446.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACK OUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL).

"LANE SHIFT" AND "STAY IN LANES" SIGNS SHALL BE SUPPLIED AND ERECTED BY THE CONTRACTOR. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION (SPECIAL).

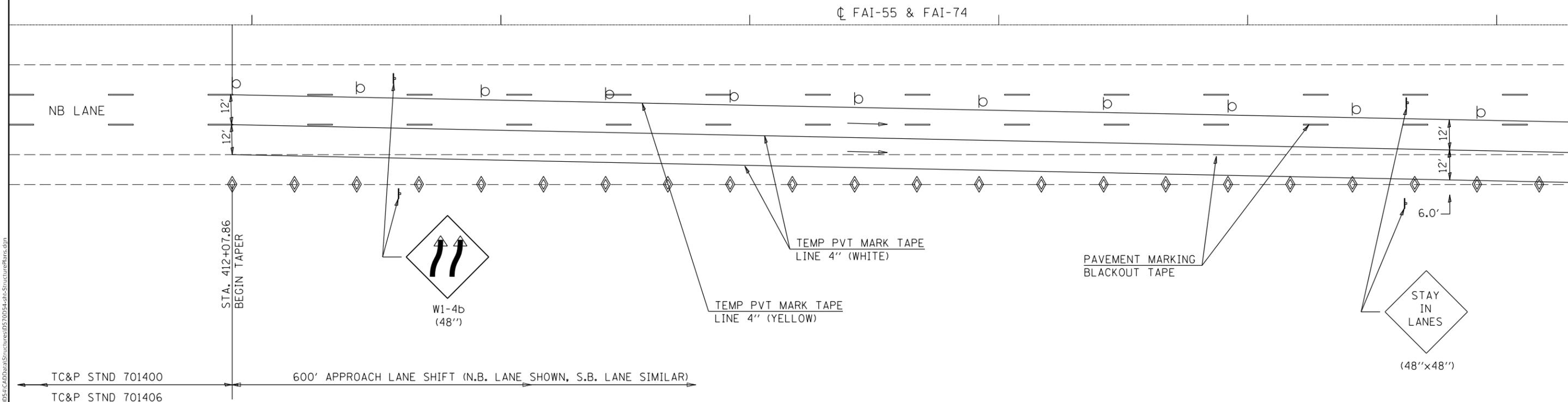
○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P (SPL))

◇ TYPE B OR C MONODIRECTIONAL REFLECTORS AT 25' CTS. (COST INCLUDED WITH TC&P (SPL))



***TEMPORARY PAVEMENT MARKING TAPE - LINE 4"**

STRUCTURE	STATION	TO	STATION	LT EDGE LINE YELLOW FOOT	CTR LINE WHITE FOOT	RT EDGE LINE WHITE FOOT
057-0019 SB	395+77.14		412+07.86	1,630.7	1,630.7	1,630.7
057-0018 NB	395+77.14		412+07.86	1,630.7	1,630.7	1,630.7
			TOTAL =	3,261.4	3,261.4	3,261.4
			USE =	3,262.0	3,262.0	3,262.0



***PAVEMENT MARKING BLACKOUT TAPE**

STRUCTURE	STATION	TO	STRUCTURE	SKIP DASH FOOT	EDGE LINE FOOT
057-0019 SB	395+77.14		412+07.86	407.7	1630.7
057-0018 NB	395+77.14		412+07.86	407.7	1630.7
			TOTAL =	815.4	3,261.4
			USE =	816.0	3,262.0

***WORKZONE PAVEMENT MARKING REMOVAL**

STRUCTURE	STATION	TO	STATION	LT EDGE LINE YELLOW SQ FT	CTR LINE WHITE SQ FT	RT EDGE LINE WHITE SQ FT
057-0019 SB	395+77.14		412+07.86	1,630.7	543.0	1,630.7
057-0018 NB	395+77.14		412+07.86	1,630.7	543.0	1,630.7
			TOTAL =	3,261.4	1,086.1	3,261.4
			USE =	3,262.0	1,087.0	3,262.0

*COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION (SPECIAL)

MODEL: \\MODELS\MATF...
 FILE NAME: P:\ILLINOIS\BID\NITEC\Illinois.gov\PIVOT\Documents\DOT Office\District 5\Projects\0570054\CADD\Structures\0570054-4-14-StructurePlans.dgn

USER NAME = sherrjrm	DESIGNED - JMS	REVISED -
DRAWN - JMS	REVISIONS -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE - 101818	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)

SCALE: NONE SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 55/74	SECTION (MBPM2019)BJR	COUNTY MCLEAN	TOTAL SHEETS 7	SHEET NO. 14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D54	

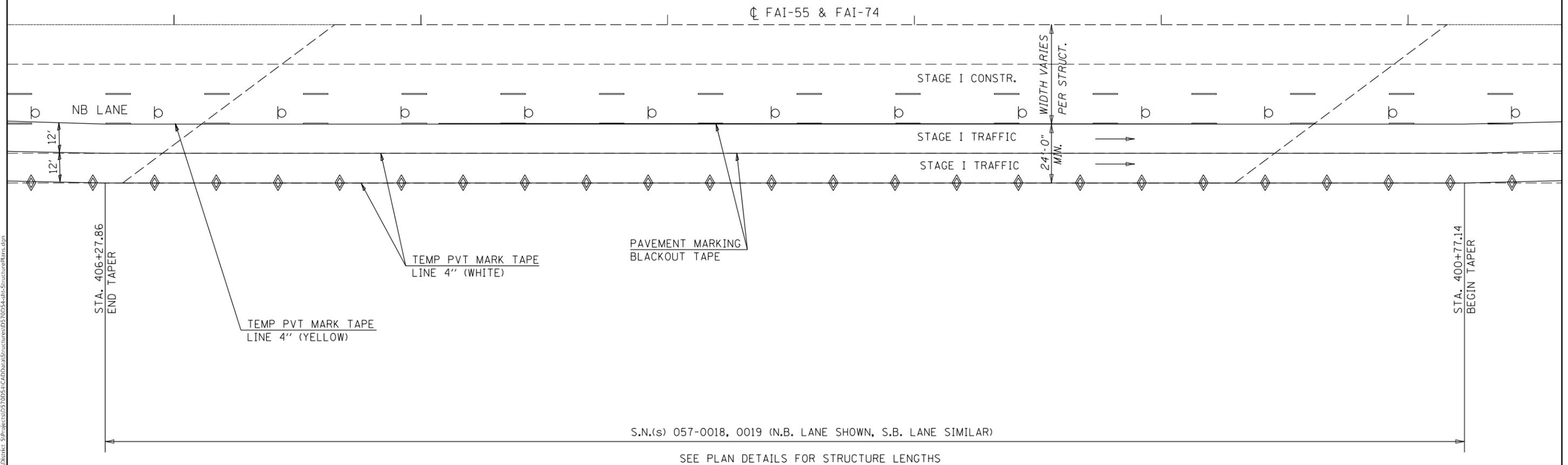
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P (SPL))
- ◇ TYPE B OR C MONODIRECTIONAL REFLECTORS AT 25' CTS. (COST INCLUDED WITH TC&P (SPL))



NOTE:

TRAFFIC CONTROL AND PROTECTION (SPECIAL) REQUIRED FOR STAGE I
 USE STANDARD 701406 WITH DRIVING LANE CLOSURE TO BEGIN SET-UP
 OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). WHEN ALL WORK IS
 COMPLETED IN DRIVING LANE AND SHOULDER, TRANSITION TO STANDARD
 701446 TO COMPLETE SET-UP OF TRAFFIC CONTROL AND PROTECTION
 (SPECIAL). CLOSURE OF CENTER LANE SHOULD BE COMPLETED AS QUICKLY
 AS POSSIBLE AND DONE DURING NON-PEAK HOURS AS QUEUING WILL OCCUR
 RAPIDLY. THIS SHOULD BE COORDINATED WITH THE ENGINEER AND TRAFFIC
 CONTROL SUPERVISOR. REMOVAL OF TRAFFIC CONTROL AND PROTECTION
 (SPECIAL) SHOULD BE COMPLETED IN REVERSE.

TRAFFIC CONTROL AND PROTECTIONS STANDARD 701401 SHALL BE USED
 FOR STAGE II WORK.



MODEL: \\MODELMATE
 FILE NAME: \\PULCRABENDNITEG:\illinois.gov\PIV\DOT\Documents\DOT_Offices\District 5\Projects\0570054\CADD\0570054-4-14-StructurePlans.dgn

USER NAME = shererjm	DESIGNED - JMS	REVISED -
DRAWN - JMS	REVISIONS -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE - 101818	REVISED -

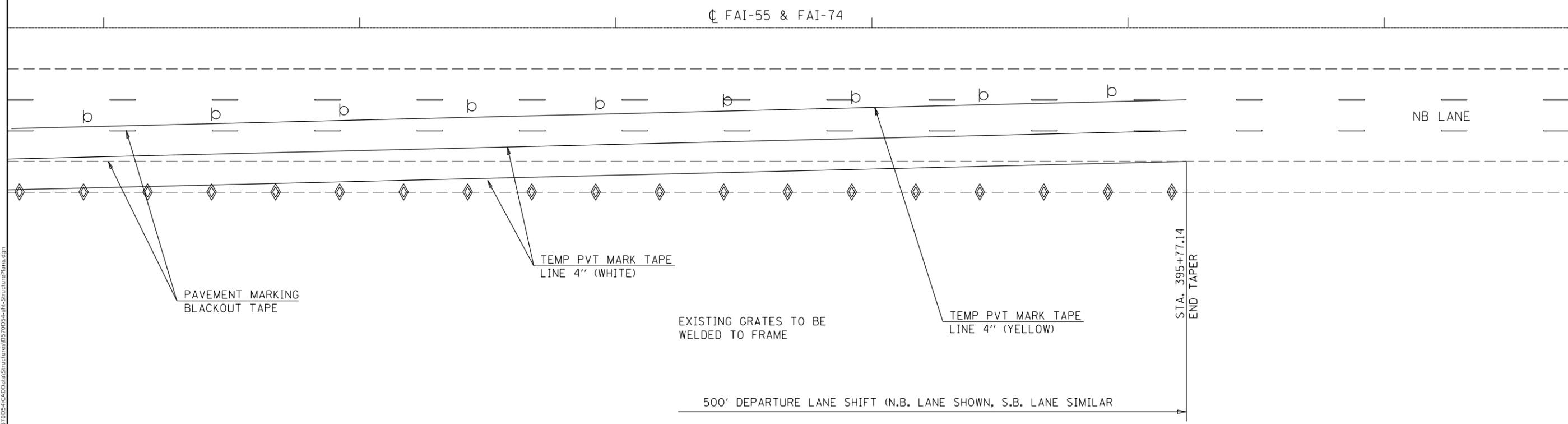
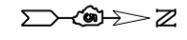
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)

SCALE: NONE SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM2019)BJR	MCLEAN	8	14
CONTRACT NO. 70D54			ILLINOIS FED. AID PROJECT	

- ⊕ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P (SPL))
- ◇ TYPE B OR C MONODIRECTIONAL REFLECTORS AT 25' CTS. (COST INCLUDED WITH TC&P (SPL))



MODEL: \\MODELMAME
 FILE: \\MODELMAME\PROJECTS\70D54\CADD\Drawings\DOT\Office\District 5\Projects\70D54\CADD\Drawings\DOT\Structure\Barricade.dgn

USER NAME = shererjm	DESIGNED - JMS	REVISED -
DRAWN - JMS	CHECKED -	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 101818	REVISED -
PLOT DATE = 12/11/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF TRAFFIC CONTROL & PROTECTION (SPECIAL)
 SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM2019)BJR	MCLEAN	9	14
CONTRACT NO. 70D54				
ILLINOIS FED. AID PROJECT				

BENCH MARKS:

T.B.M. No. 6: Chiseled to cut on Southeast wingwall of F.A.I. 55/74 Northbound bridge over White Oak Rd. & N.S. Railroad - El. 248.217

T.B.M. No. 7: Brass plate at F.A.I. 55/74 @ median, Sta. 31+437.046 - El. 247.098

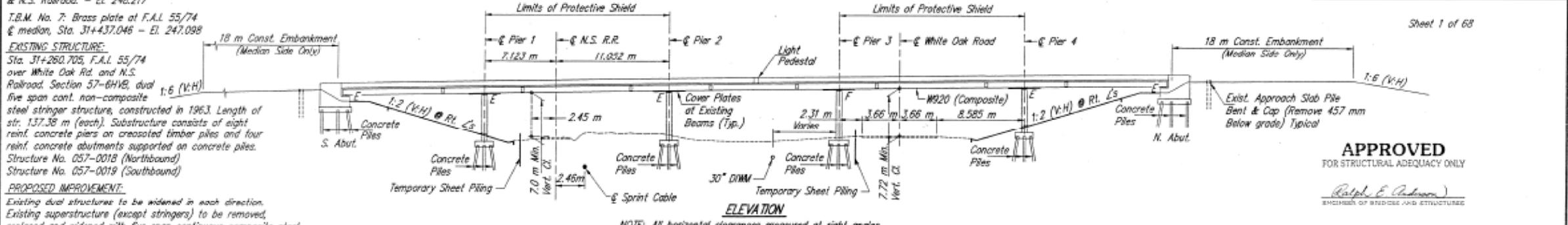
EXISTING STRUCTURE:
Sta. 31+260.705, F.A.I. 55/74 over White Oak Rd. and N.S. Railroad, Section 57-6HVB, dual five span cont. non-composite steel stringer structure, constructed in 1963. Length of str. 137.38 m (each). Substructure consists of eight reinf. concrete piers on creosoted timber piles and four reinf. concrete abutments supported on concrete piles. Structure No. 057-0018 (Northbound) Structure No. 057-0019 (Southbound)

PROPOSED IMPROVEMENT:

Existing dual structures to be widened in each direction. Existing superstructure (except stringers) to be removed, replaced and widened with five span continuous composite steel stringers. Exist. stringers to be jacked, cleaned, repainted. All expansion bearings to be replaced with elastomeric bearings. The fixed bearings shall be replaced with low profile fixed bearings. Existing substructure to be widened. Exist. approach pavement to be removed and replaced with 9 m standard approach pavement. Traffic to be maintained utilizing stage construction.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(57-6HVB)BY	McLean	173	61
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

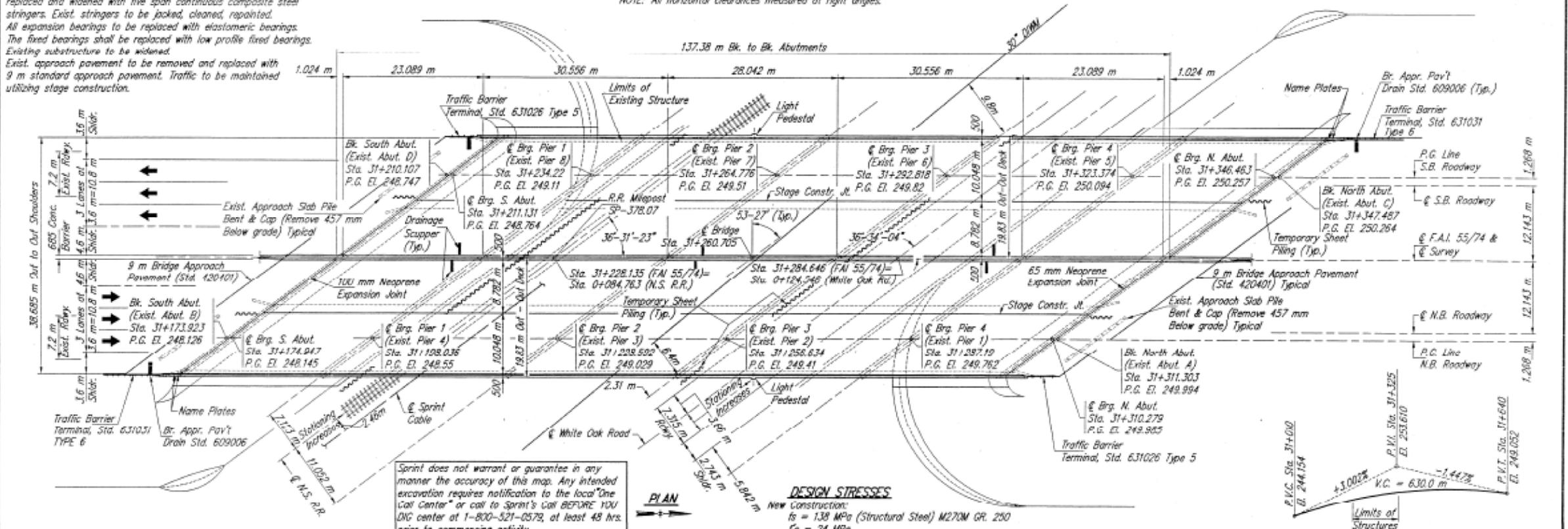
Sheet 1 of 68



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Adams
ENGINEER OF BRIDGES AND STRUCTURES

NOTE: All horizontal clearances measured at right angles.



Sprint does not warrant or guarantee in any manner the accuracy of this map. Any intended excavation requires notification to the local "One Call Center" or call to Sprint's Call BEFORE YOU DIG center at 1-800-521-0579, at least 48 hrs. prior to commencing activity.

DESIGN STRESSES

New Construction:
fs = 138 MPa (Structural Steel) M270M GR. 250
fc = 24 MPa
fy = 400 MPa (Reinf.)

Existing Construction:
fs = 138 MPa (Structural Steel)
fs = 135 MPa (Reinf.)
fc = 9.7 MPa

Design Specifications:
1996 AASHTO Specifications

Loading MS18 with Allowance for 1.2 kN/m² Future Wearing Surface

Seismic Data:

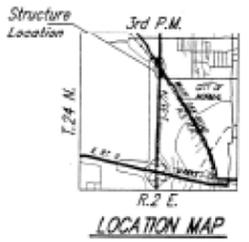
S.P.C. = A

A = 0.044g

S = 1.0



DATE SIGNED: 9-25-98
LIC. EXP. DATE: 11-30-98



STATION 258+996.196
REBUILT 199... BY
STATE OF ILLINOIS
F.A.I. RT. 55/74
SEC. (57-6HVB)BY
F.A. PROJ.
LOADING MS18 & ALT.
STR. NO. 057-0018

* B-Northbound, S-Southbound
Locate Nameplate on Southeast Wingwall of N.B. Structure & on Northwest Wingwall of S.B. Structure (See Std. 515001)

LETTERING FOR NAMEPLATE

TOP OF RAIL ELEV.

STATION	NORTH BOUND
0+040	240.129
0+050	240.177
0+060	240.22
0+070	240.273
0+080	240.313
0+090	240.356
0+100	240.402
0+110	240.446
0+120	240.488
0+130	240.528

WHITE OAK ROAD - EXISTING PROFILE GRADE

Sta	El.	Sta	El.
0+080	240.129	0+180	240.607
0+090	240.177	0+190	240.648
0+100	240.22		
0+110	240.273		
0+120	240.313		
0+130	240.356		
0+140	240.402		
0+150	240.446		
0+160	240.488		
0+170	240.528		

F.A.I. 55/74 - PROPOSED PROFILE GRADE

GENERAL PLAN
F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
SECTION (57-6HVB)BY
STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
MCLEAN COUNTY
STATION 31+260.705



9452063
4/17/98

MODEL: MODFORM.MXD
FILE NAME: P:\ILLINOIS\BID\TECH\IBR\057-0018\AS-BUILT\AS-BUILT-STRUCTURE\BIB.DWG

USER NAME = sherejm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

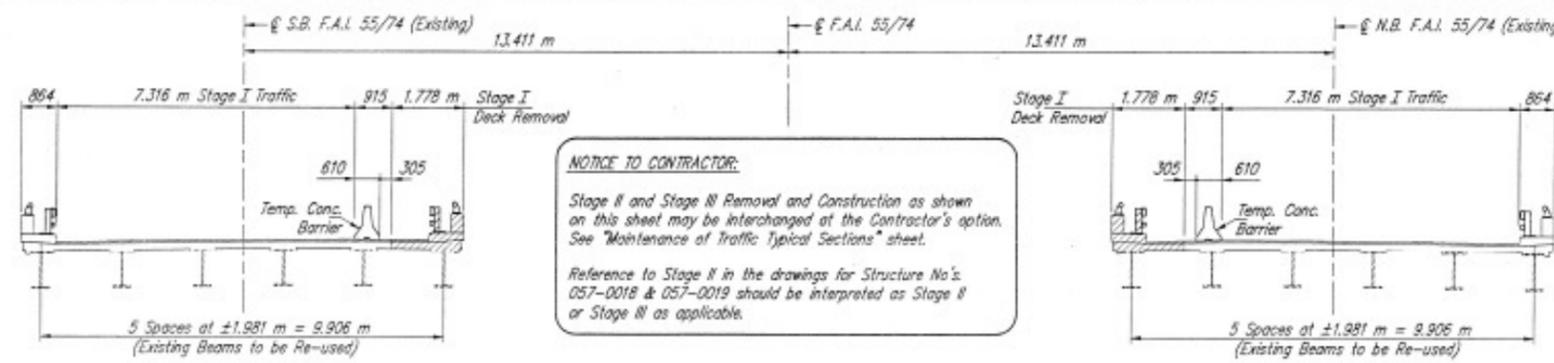
AS-BUILT PLANS 057-0018 & 057-0019
(INFORMATION ONLY)

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	10	14
CONTRACT NO. 70D54			ILLINOIS FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-55/74	(57-6HVB)BY	McLean	173	CA
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

Sheet 4 of 68



NOTICE TO CONTRACTOR:
 Stage II and Stage III Removal and Construction as shown on this sheet may be interchanged at the Contractor's option. See "Maintenance of Traffic Typical Sections" sheet.
 Reference to Stage II in the drawings for Structure No.'s 057-0018 & 057-0019 should be interpreted as Stage II or Stage III as applicable.

STAGE CONSTRUCTION

See "MAINTENANCE OF TRAFFIC TYPICAL SECTIONS" sheet for additional information.

STAGE I

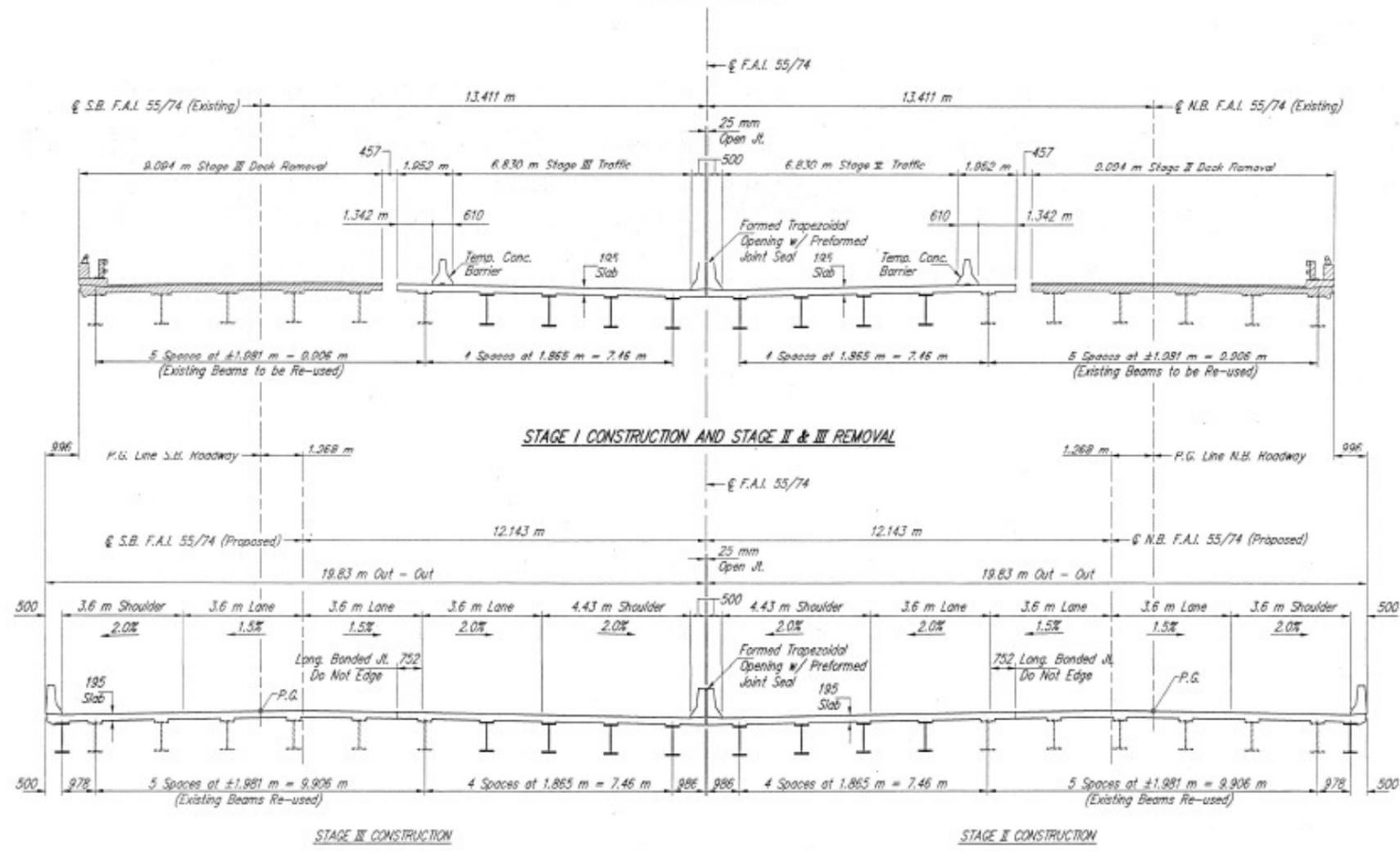
Place temporary concrete barriers and maintain two lanes of traffic on outside portion of bridge.
 Provide traffic control and protection and protective shielding for White Oak Road and N.S. Railroad.
 Remove median portion of existing bridge deck.
 Disconnect diaphragms from existing beam on median side of bridge.
 Jack and crib existing beam on median side of bridge.
 Remove portions of existing substructure.
 Construct median extensions of piers and abutments.
 Erect and construct new median portions of superstructure.

STAGE II

Fasten grates of inlets on bridge approach pavement slabs constructed in Stage I.
 Relocate temporary concrete barrier onto new portion of deck constructed in Stage I and maintain two lanes of traffic.
 Remove remainder of existing bridge deck.
 Move or remove existing outside beam as required to drive piles in outside extension of pier. Cost of moving or removing existing outside beam is included with the cost of "Driving Concrete Piles".
 Jack and crib remaining existing beams.
 Remove portions of existing substructure.
 Construct outside extensions of piers and abutments.
 Erect and construct remainder of new superstructure.

Quantity of Temporary Concrete Barrier is included with the Roadway Plans.

Hatched areas indicate removal of existing concrete deck.



STAGE I CONSTRUCTION AND STAGE II & III REMOVAL

STAGE III CONSTRUCTION

STAGE II CONSTRUCTION

FINAL DECK CROSS SECTION
(All Views Looking North)

CONSTRUCTION STAGING
 F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
 SECTION (57-6HVB)BY
 STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
 McLEAN COUNTY
 STATION 31+260.705

1525 SOUTH SIXTH STREET SPRINGFIELD, IL 62763

9452063
 4/17/08

MODEL: MOD057.MXMTS
 FILE NAME: P:\ILLINOIS\BIDDING\DOT\Office\Drawings\Structure\0570054\Sub-Structure\Bure.dgn
 PROJECT: 0570054-0018-0019
 DATE: 12/11/2018

USER NAME = sherejin	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0018 & 057-0019
 (INFORMATION ONLY)

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	11	14
				CONTRACT NO. 70D54
				ILLINOIS FED. AID PROJECT

Joint Size	"C" at 10°C	"D" at 10°C	"F" at 10°C
50	50	40 Min.	84
65	65	45 Min.	109
100	75	65 Min.	126

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55/74	(57-6HVB)BY	McLean	173	81
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

Sheet 21 of 68

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

The elastomeric membrane shall be pre-molded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 10° C.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

All dimensions are in millimeters (mm) except as noted.

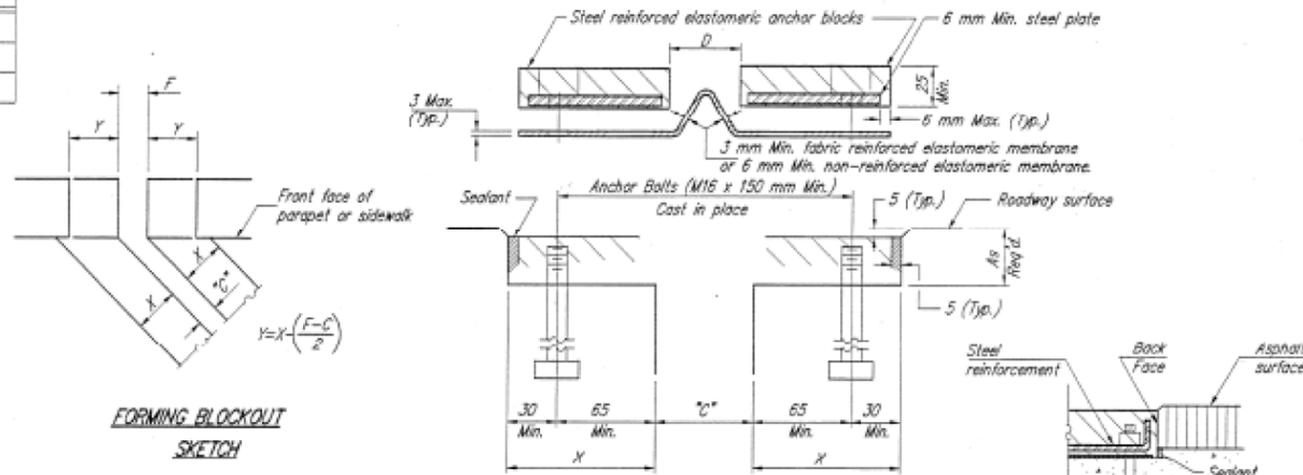
INSTALLATION NOTES

1. Install continuous seal in roadway, parapet, curb, and sidewalk.
2. Install anchor blocks as indicated.

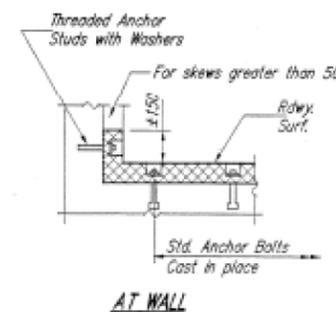
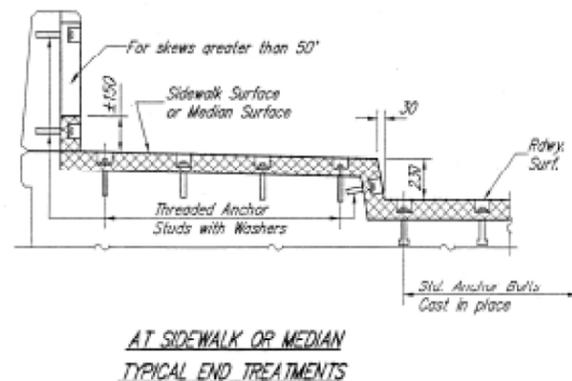
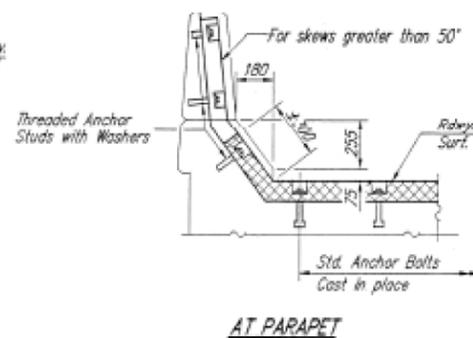
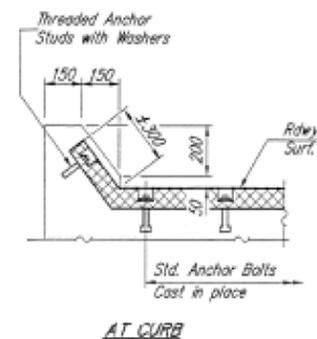
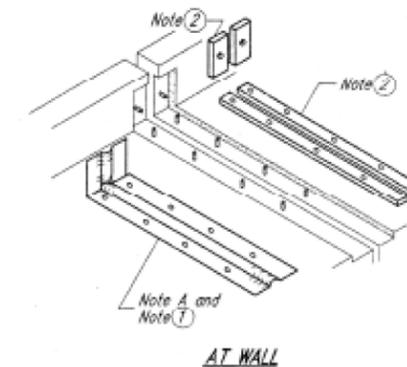
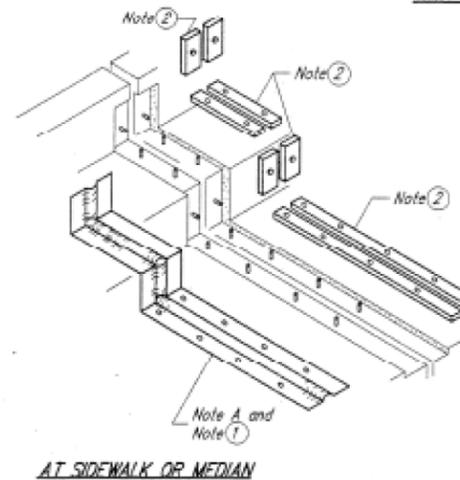
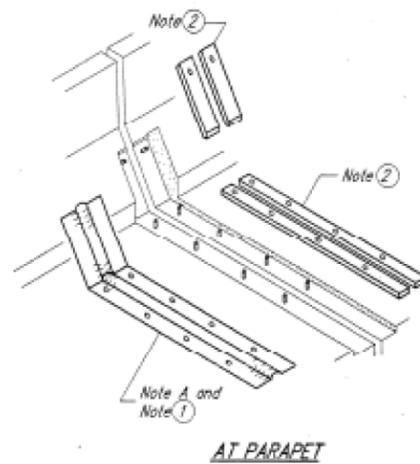
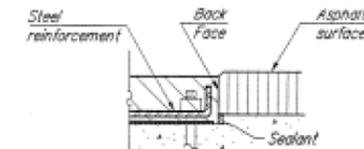
NOTE A: Maximum spacing of anchor bolts shall be 300 centers.

SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 40 mm from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±300 cts.



ANCHOR BLOCK REINFORCEMENT WITH ASPHALT SURFACE



NEOPRENE EXPANSION JOINTS
 F.A.I. 55/74 OVER N.S. R.R. & WHITE OAK ROAD
 SECTION (57-6HVB)BY
 STRUCTURE NO. 057-0018 (N.B.) & 057-0019 (S.B.)
 McLEAN COUNTY
 STATION 31+260.705

DATE: 4/17/98
 DRAWING NO.: 945206.3

MODEL: MODIFIED.MXITS
 FILE NAME: P:\ILLINOIS\BIDDING\TECH\Illinois.gov\PROJECTS\Documents\DOT Office\District 5\Projects\0570054\CADD\Structures\0570054-LHS-StructurePlans.dgn

USER NAME = sherejm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE -	REVISED -

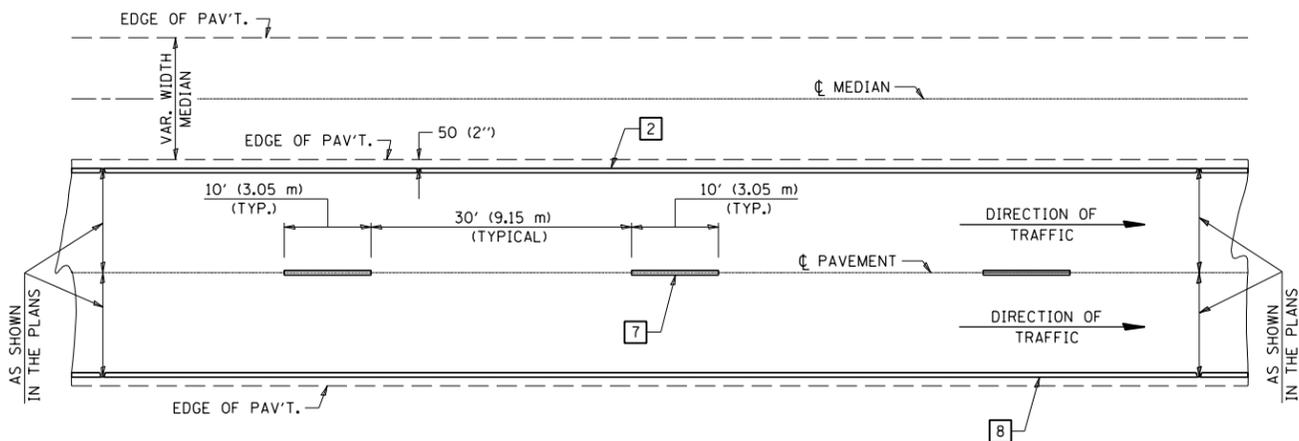
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS 057-0018 & 057-0019
 (INFORMATION ONLY)

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	13	14
				CONTRACT NO. 70D54
ILLINOIS FED. AID PROJECT				

CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY

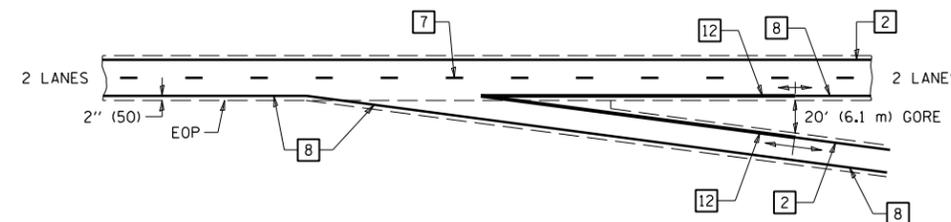


NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

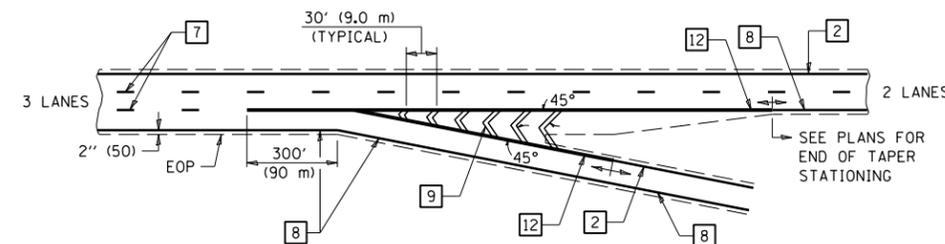
NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.

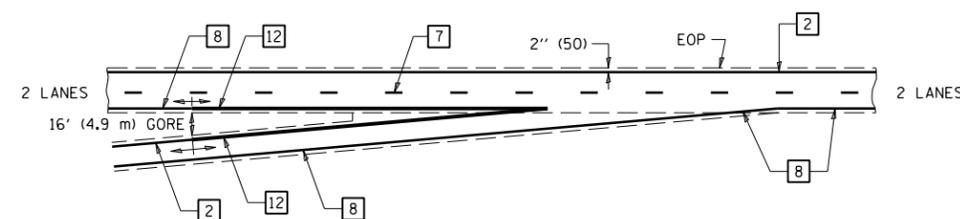
TYPICAL EXIT RAMP TERMINAL



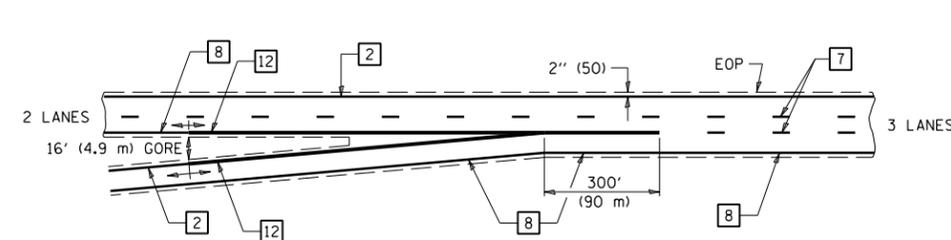
EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



TYPICAL ENTRANCE RAMP TERMINAL

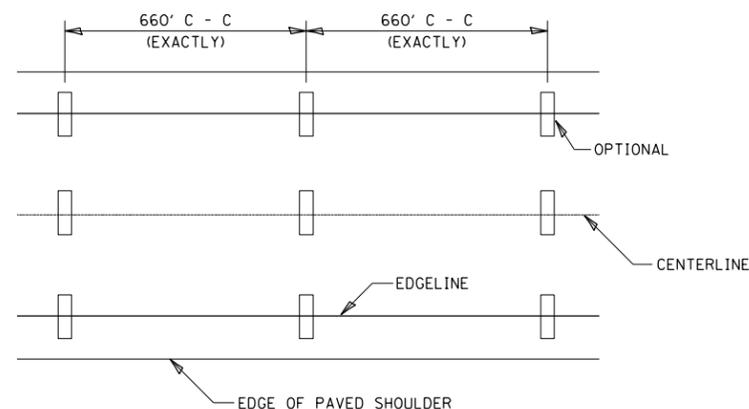
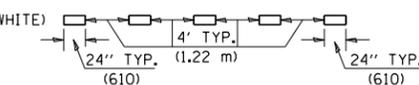
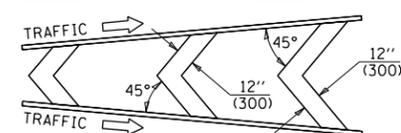
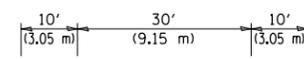
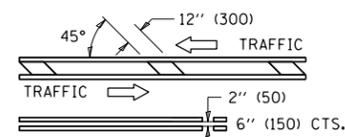
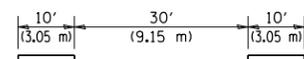


ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE

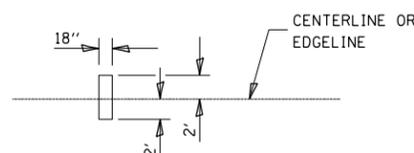


TYPICAL PAVEMENT MARKING LEGEND

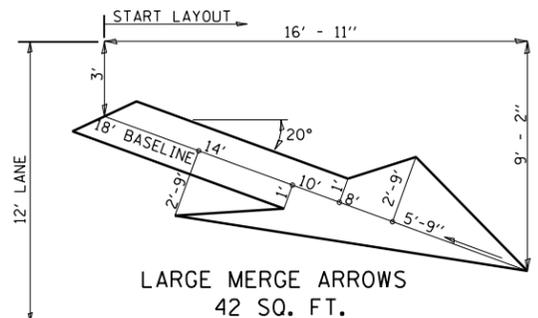
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



AERIAL SPEED CHECK ZONES



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800BBB

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED - 11/06
\\11084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\05700000\Drawings\Structures\0570054-sht-Struct\REVISED.dgn		CHECKED -	REVISED -
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -
\$MODELNAME\$	PLOT DATE = 12/11/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74	(MBPM 2019)BJR	MCLEAN	14	14
CONTRACT NO. 70D54				
ILLINOIS FED. AID PROJECT				