03-08-2019 LETTING ITEM 002

002

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HM 3-1-1	DUPAGE	17	1
	ILLINOIS	CONTRACT NO. 60M75		

17 + 9 = 26 TOTAL SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAI ROUTE 290: I–290/US 20
AT EMROY AVENUE
SECTION 100HB–3–I–1
PROJECT: NHPP–XXTO(875)
BRIDGE DECK OVERLAY, BRIDGE JOINT REPAIR
DUPAGE COUNTY

C–91–160–11

D–91–160–11

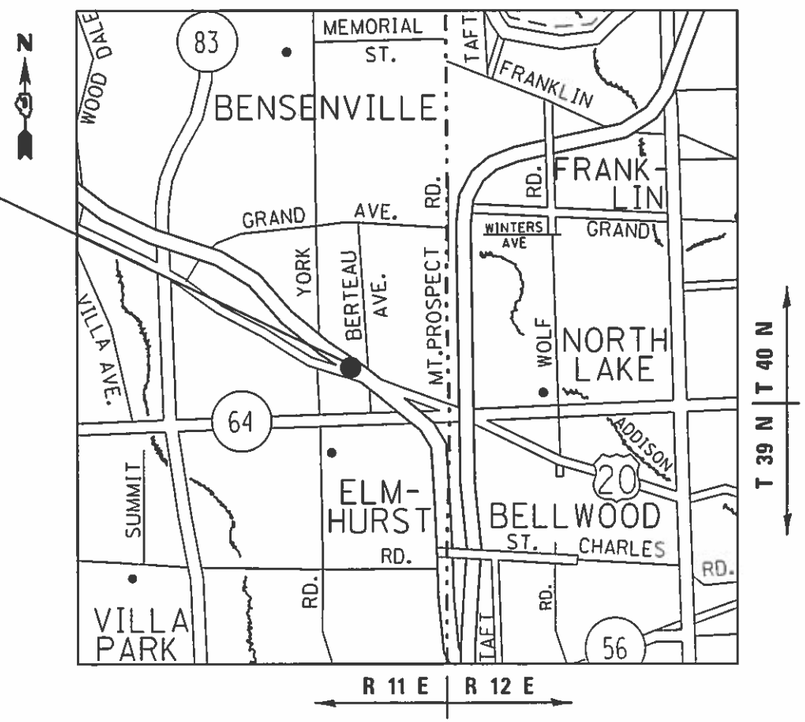
LOCATION OF SECTION INDICATED THUS: –

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE CITY OF ELMHURST

TRAFFIC DATA

ADT (2016) = 4,850
POSTED SPEED LIMIT = 30 MPH



IMPROVEMENT LOCATION
EMROY AVENUE
OVER I–290
STRUCTURE NO: 022–0149

ADDISON TOWNSHIP

GROSS LENGTH & NET LENGTH = 150.0 FT. = 0.028 MILE

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 4 20 18
Anthony J. Quigley/DB
REGIONAL ENGINEER
Feb 1 20 19
ENGINEER OF DESIGN AND ENVIRONMENT
Feb 20 19
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: J. ALAIN MIDY (847) 221–3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705–4247

CONTRACT NO. 60M75

REV. 1/25/19 REV 1/10/19

INDEX OF SHEETS

INDEX OF HIGHWAY STANDARDS

Standard No.	Description
515001-03	Name Plate For Bridges
606001-07	Concrete Curb Type B and Combination Concrete Curb and Gutter
643001-02	Sand Module Impact Attenuators
701106-02	Off-Rd Operations, Multilane, More Than 15' (4.5m) Away
701301-04	Lane Closure, 2L, 2W, Short Time Operations
701311-03	Lane Closure, 2L, 2W, Moving Operations-Day Only
701400-09	Approach to Lane Closure, Freeway/Expressway
701401-12	Lane Closure, Freeway/Expressway
701411-09	Lane Closure, Multilane, At Entrance Or Exit Ramp, For Speeds >= 45MPH
701428-01	Traffic Control Setup And Removal Freeway/Expressway
701446-09	Two Lane Closure Freeway/Expressway
701801-06	
701901-08	Traffic Control Devices
704001-08	Temporary Concrete Barrier
782006	Guardrail And Barrier Wall Reflector Mounting Details

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS @ Ndes	
Hot-Mix Asphalt Surface Course, Mix "D", N70 (IL 9.5mm), 1-1/2"	4% @ 70 Gyr.	QC/QA

QMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)

The unit weight used to calculate all HMA Surface mixture quantities is 112 Lbs./Sq. Yd./In.

For Non-Polymerized HMA the "AC Type" shall be "PG 64-22" unless modified by the District One special provisions.

For use of recycled materials, see special provisions.

Quality Management Program (QMP) identifies the particular quality control specification that applies to the HMA mixture.

GENERAL NOTES

1. These plans have been prepared from notes received from IDOT Bridge Inspectors.
2. 10 ft (3 m) transitions shall be used to match proposed items of work to existing items in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed item of work specified.
3. The contractor shall contact the Traffic Control Supervisor at (847) 705-4470, for Arterials and (847) 705-4151 for Expressways at least 72 hours prior to installation of the temporary control devices.
4. The Resident Engineer shall contact the Area Traffic Field Engineer Don Chiarugi at (847) 741-9857 at least two (2) weeks prior to the placement of permanent pavement markings.
5. All pavement markings and raised reflectors affected by the bridge repairs shall be replaced. Nominal quantities have been included in the contract for this work.
6. The Contractor will not be allowed to set up a yard or field office on State property without written permission from the Department.
7. Do not scale these plans for construction purposes.
8. 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.
9. During construction operations, loose material deposits that obstruct the flow of water in draining the area shall be removed before the end of each work day. At the conclusion of construction operations, all drainage structures (new and existing) shall be free from all dirt and debris. This work will not be paid for separately but shall be included in the item for Concrete Removal.
10. The quantities for Hot-Mix Asphalt Surface Course, Mix "D", N70 have been prepared assuming 1 1/2 inch thickness of surface to be placed.
11. Before beginning any work, the Contractor shall retain and record for future reference, all existing pavement marking lines, symbols and letters (and raised reflective markers) in order that these locations can be re-established for striping. Exact locations of all pavement markings and raised reflective pavement markers shall be as directed by the Engineer.
12. Before starting any excavation, the contractor shall call "J.U.L.I.E." at (800) 892-0123 or 811 for field locations of buried electric, telephone and gas utilities. 48 hour notification is required.
13. Lane closures on I-290 will be permitted during the allowable hours specified in the Keeping The Expressway Open To Traffic Special Provision

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS, AND HIGHWAY STANDARDS
STRUCTURE NO. 022-0149

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	2
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

REV 1/10/19

SUMMARY OF QUANTITIES			90% FED 10% STATE	CONSTRUCTION TYPE CODE							SUMMARY OF QUANTITIES			90% FED 10% STATE	CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0013							CODE NO	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0013						
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	346	346							67100100	MOBILIZATION	L SUM	1	1						
40600985	PORTLAND CEMENT CONCRETE SURFACE	SQ YD	217	217							70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	220	220						
	REMOVAL - BUTT JOINT																				
											70400100	TEMPORARY CONCRETE BARRIER	FOOT	545	545						
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX	TON	66	66																	
	"D", N70										70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	545	545						
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY	SQ YD	18	18							70600250	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	2	2						
	PAVEMENT, 8 INCH											REDIRECTIVE), TEST LEVEL 3									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	635	635																	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	18	18							70600350	IMPACT ATTENUATORS, RELOCATE (NON-	EACH	4	4						
44000600	SIDEWALK REMOVAL	SQ FT	635	635								REDIRECTIVE), TEST LEVEL 3									
50102400	CONCRETE REMOVAL	CU YD	13.8	13.8																	
44201341	CLASS C PATCHES, TYPE II, 9"	SQ YD	22	22						*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	512	512						
50157300	PROTECTIVE SHIELD	SQ YD	544	544								4"									
50300255	CONCRETE SUPERSTRUCTURE	CU YD	14.3	14.3						*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE	FOOT	352	352						
												4"									
50300260	BRIDGE DECK GROOVING	SQ YD	546	546																	
										*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14						
50300300	PROTECTIVE COAT	SQ YD	960	960																	
										*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	88	88						
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1590	1590																	
											78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	22	22						
52000110	PREFORMED JOINT STRIP SEAL	FOOT	89.5	89.5								REMOVAL									
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4							X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	52	52						
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3																	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITY
STRUCTURE NO. 022-0149

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-1-1	DUPAGE	17	3
		CONTRACT NO. 60M75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

*= SPECIALTY ITEM

REV. 1/25/19 REV 1/10/19

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	90% FED 10% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE ROADWAY 0013					
X6640304	CHAIN LINK FENCE TO BE REMOVED AND	FOOT	466	466					
	RE-ERECTED								
X7010216	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					
	(SPECIAL)								
X7011015	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1					
	(EXPRESSWAYS)								
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30					
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	10	10					
Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	523	523					
	REMOVAL AND REPLACEMENT								
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2	SQ YD	560	560					
	1/4 INCHES								
Z0010615	CLEANING EXISTING INLETS	EACH	5	5					
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	560	560					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	76	76					
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	5					
Z0018000	DRAINAGE SCUPPER TO BE ADJUSTED	EACH	1	1					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITY
STRUCTURE NO. 022–0149

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-1-1	DUPAGE	17	4

CONTRACT NO. 60M75

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

REV. 1/25/19 REV 1/10/19

LEGEND:

DETOUR ROUTE

ROAD CLOSURE

TYPE III BARICADE

AMBER FLASHING LIGHT

TEMPORARY TRAFFIC SIGNAL TIMING

1A W20-3 (48" X 48")

1B W20-3 (48" X 48")

2A W20-2 (48" X 48")

2B M4-8A (24" x 18")

4 (24" x 18")
4" BLACK LETTERS ON WHITE REFLECTORIZED BACKGROUND

5N M3-1-2412

5S M3-3-2412

6C R11-2B (48" X 30")

7A M4-9 (30" X 21")

7B M4-9 (30" X 21")

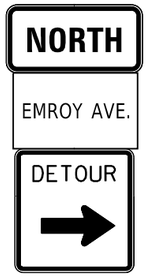
R11-2 (48" X 30")

M4-10R (48" x 18")

R11-4 (60" X 30")

M4-10L (48" x 18")

6B



TYPICAL DETOUR SIGN ASSEMBLY

7A M4-9 (30" X 21")

7A M4-9 (30" X 21")

7A M4-9 (30" X 21")

9 R3-1-24

10 R3-2-24

NOTES:

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ADVANCED SIGNING AND TYPE III BARICADES SHALL BE PLACED IN ACCORDANCE WITH IDOT STANDARD 701901 AND DETAIL TC-21, (TYPICAL MARKING FOR CLOSING STATE HIGHWAYS).
3. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND SIGNS SHALL BE INCLUDED IN THE CONTRACT COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
4. ACCESS TO ALL PRIVATE ENTRANCES SHALL BE MAINTAINED.
5. TEMPORARY INFORMATION SIGNING SHALL BE PLACED AT EACH END OF EMROY AVENUE FOR THE DURATION OF THE PROJECT, SEE ATTACHED DETAIL.
6. ALL DETOUR SIGNS SHALL HAVE AN ORANGE BACKGROUND WITH BLACK LETTERS, EXCEPT AS NOTED.
7. ALL SIGNS AND ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 2.

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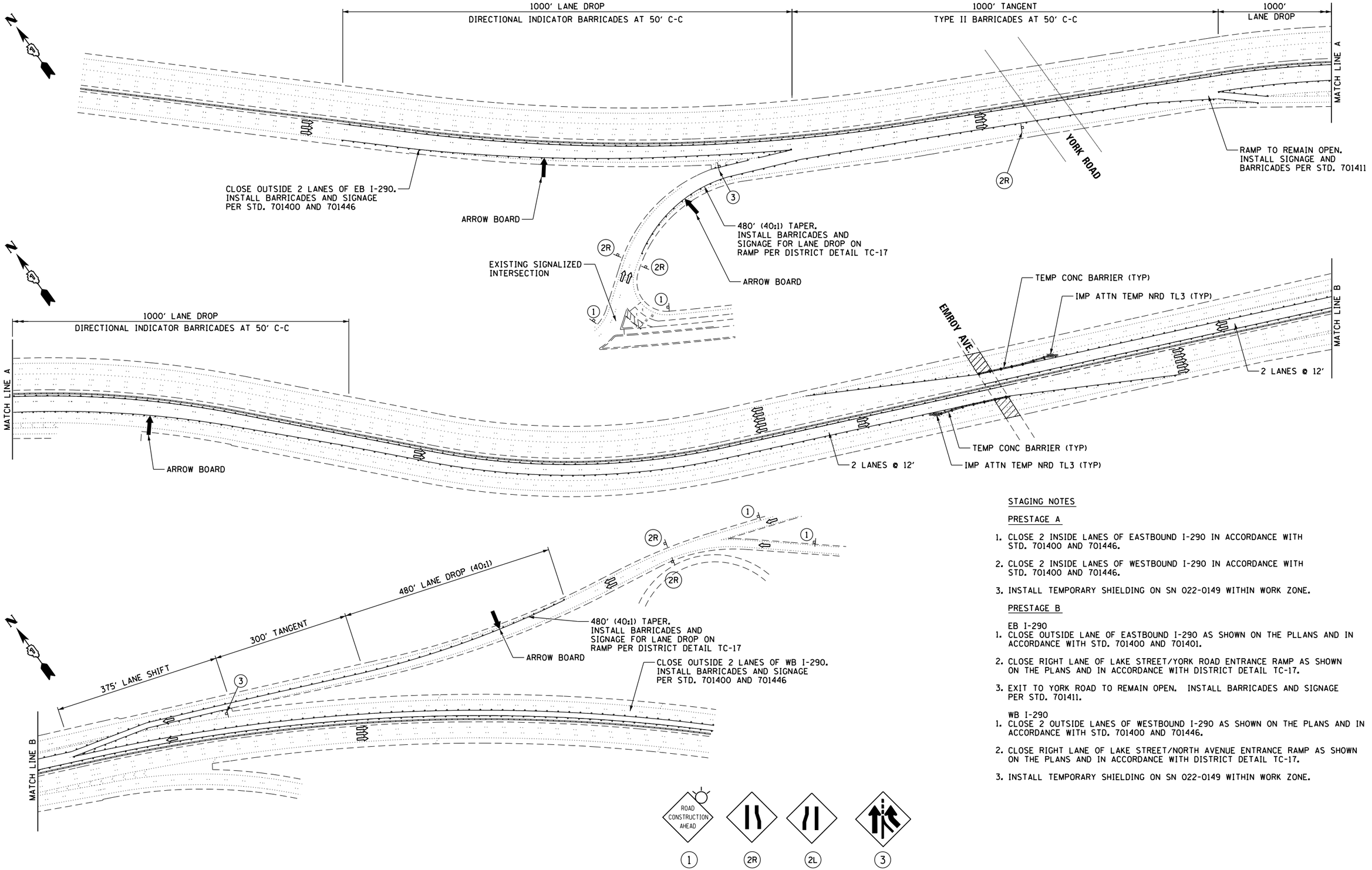
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMROY AVENUE
DETOUR SIGNING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	5
		CONTRACT NO. 60M75		
	ILLINOIS	FED. AID PROJECT		



STAGING NOTES

PRESTAGE A

1. CLOSE 2 INSIDE LANES OF EASTBOUND I-290 IN ACCORDANCE WITH STD. 701400 AND 701446.
2. CLOSE 2 INSIDE LANES OF WESTBOUND I-290 IN ACCORDANCE WITH STD. 701400 AND 701446.
3. INSTALL TEMPORARY SHIELDING ON SN 022-0149 WITHIN WORK ZONE.

PRESTAGE B

EB I-290

1. CLOSE OUTSIDE LANE OF EASTBOUND I-290 AS SHOWN ON THE PLLANS AND IN ACCORDANCE WITH STD. 701400 AND 701401.
2. CLOSE RIGHT LANE OF LAKE STREET/YORK ROAD ENTRANCE RAMP AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH DISTRICT DETAIL TC-17.
3. EXIT TO YORK ROAD TO REMAIN OPEN. INSTALL BARRICADES AND SIGNAGE PER STD. 701411.

WB I-290

1. CLOSE 2 OUTSIDE LANES OF WESTBOUND I-290 AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH STD. 701400 AND 701446.
2. CLOSE RIGHT LANE OF LAKE STREET/NORTH AVENUE ENTRANCE RAMP AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH DISTRICT DETAIL TC-17.
3. INSTALL TEMPORARY SHIELDING ON SN 022-0149 WITHIN WORK ZONE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290
MAINTENANCE OF TRAFFIC PRESTAGE

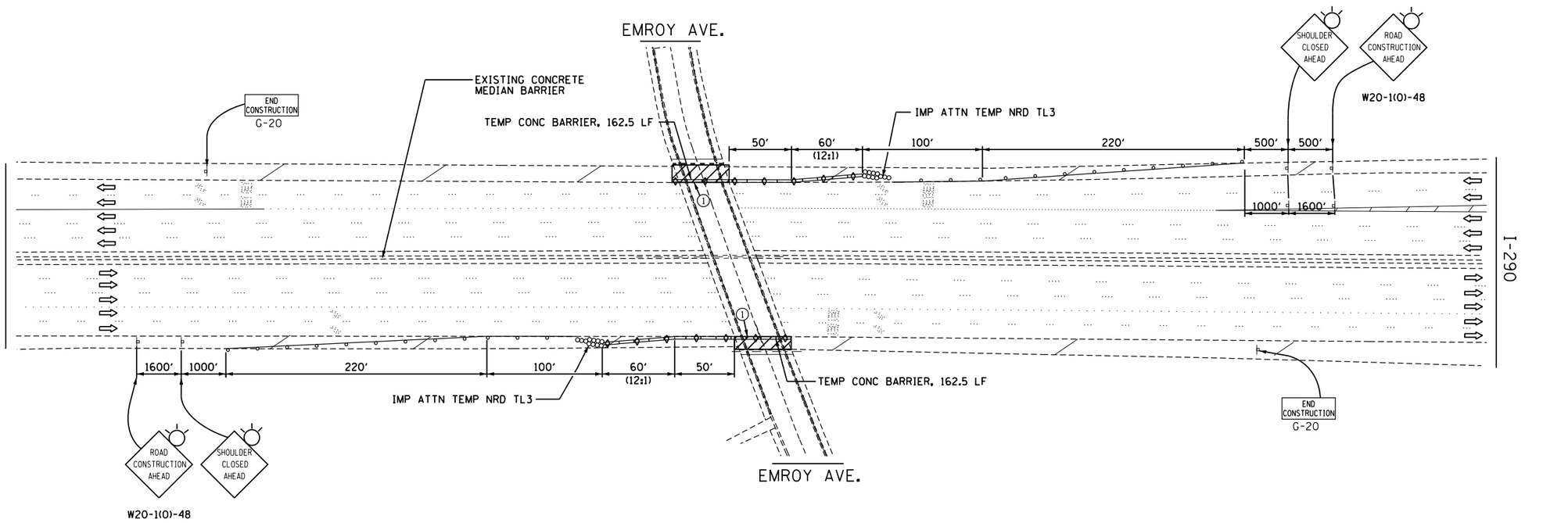
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	6
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

① TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
(ON LOWER SLOPE OF BARRIER WALL)

LEGEND:

- WORK ZONE
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- MONODIRECTIONAL BARRIER WALL MARKERS (25' C-C)



NOTES:

1. SEE TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17) FOR ADDITIONAL SIGNS AND SIGNING DETAILS.
2. CONTRACTOR SHALL REMOVE OR COVER EXISTING CONFLICTING PAVEMENT MARKING LINES WITH BLACK TAPE.
3. BARRIER WALL MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON THE LEFT SHALL BE AMBER.
4. ALL SIGNS SHALL BE POST MOUNTED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290
MAINTENANCE OF TRAFFIC STAGE I

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

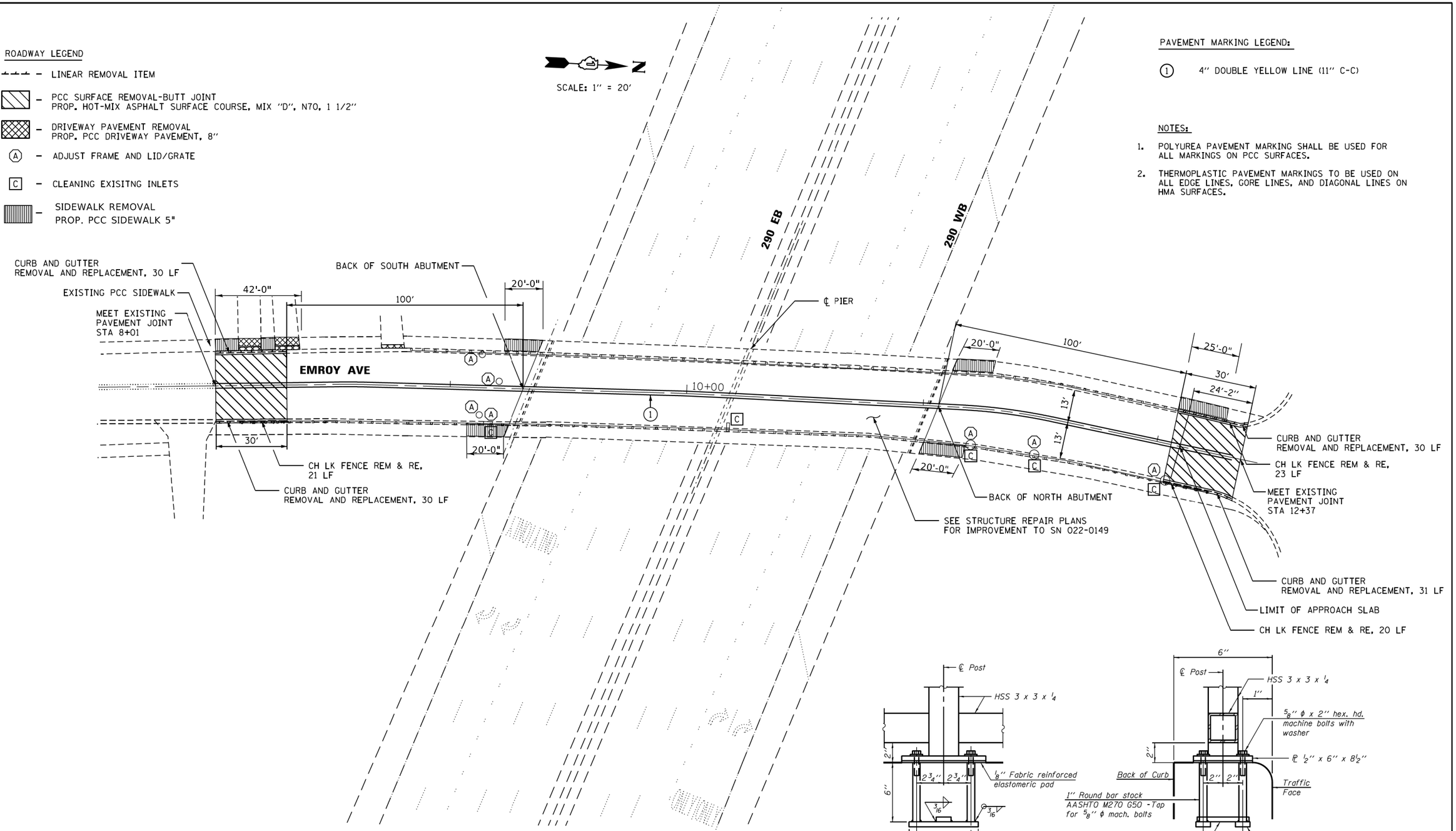
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	7
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

ROADWAY LEGEND

- LINEAR REMOVAL ITEM
- PCC SURFACE REMOVAL-BUTT JOINT
  PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- DRIVEWAY PAVEMENT REMOVAL
  PROP. PCC DRIVEWAY PAVEMENT, 8"
- (A) – ADJUST FRAME AND LID/GRATE
- [C] – CLEANING EXISITNG INLETS
- SIDEWALK REMOVAL
  PROP. PCC SIDEWALK 5"

N

SCALE: 1" = 20'



PAVEMENT MARKING LEGEND:

(1) 4" DOUBLE YELLOW LINE (11" C-C)

NOTES:

1. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC SURFACES.
2. THERMOPLASTIC PAVEMENT MARKINGS TO BE USED ON ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA SURFACES.

FENCE RE-ERECTION ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

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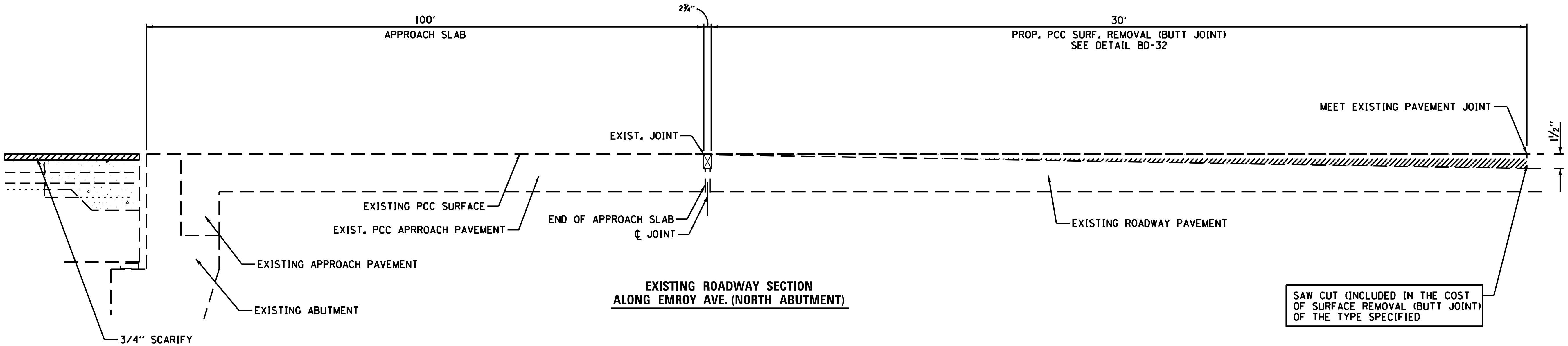
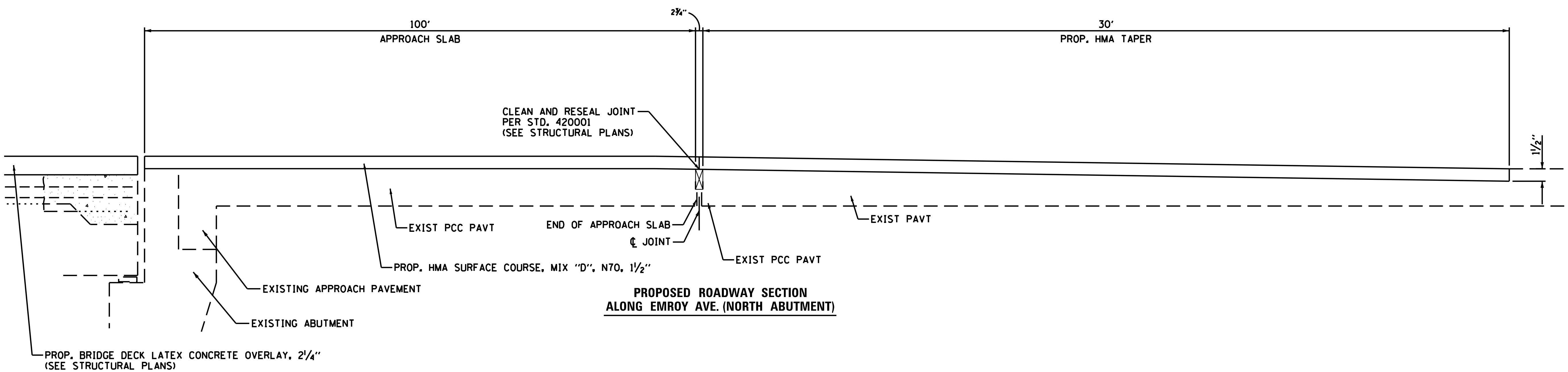


EXISTING ROADWAY SECTION
ALONG EMROY AVE. (NORTH ABUTMENT)



PROPOSED ROADWAY SECTION
ALONG EMROY AVE. (NORTH ABUTMENT)

NOTES:

1. SEE ROADWAY DETAILS SHEET 2 OF 2 FOR NOTES AND ADDITIONAL DETAILS.

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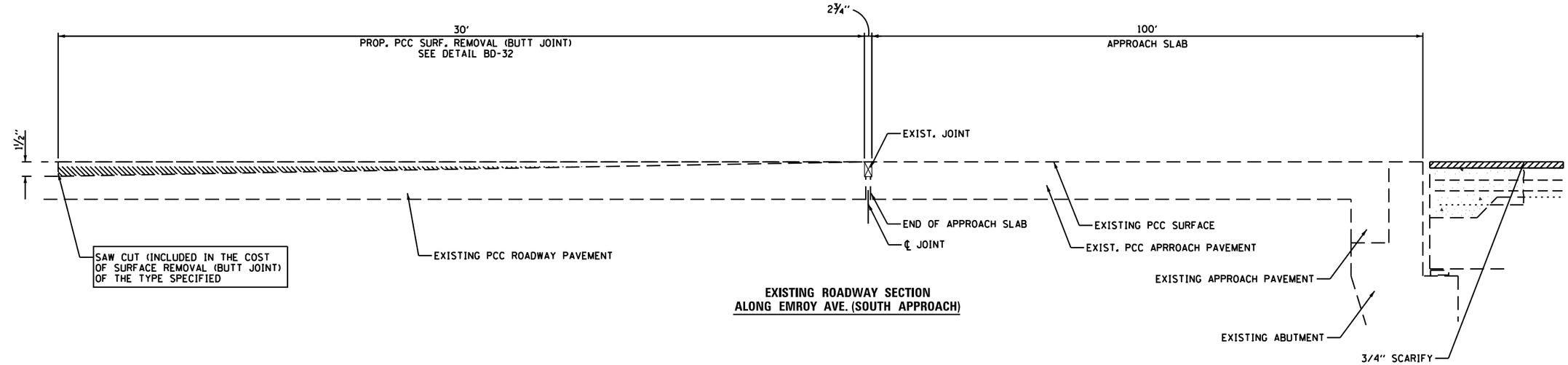
EMROY AVENUE
ROADWAY DETAIL – NORTH APPROACH
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	9

CONTRACT NO. 60M75
ILLINOIS FED. AID PROJECT



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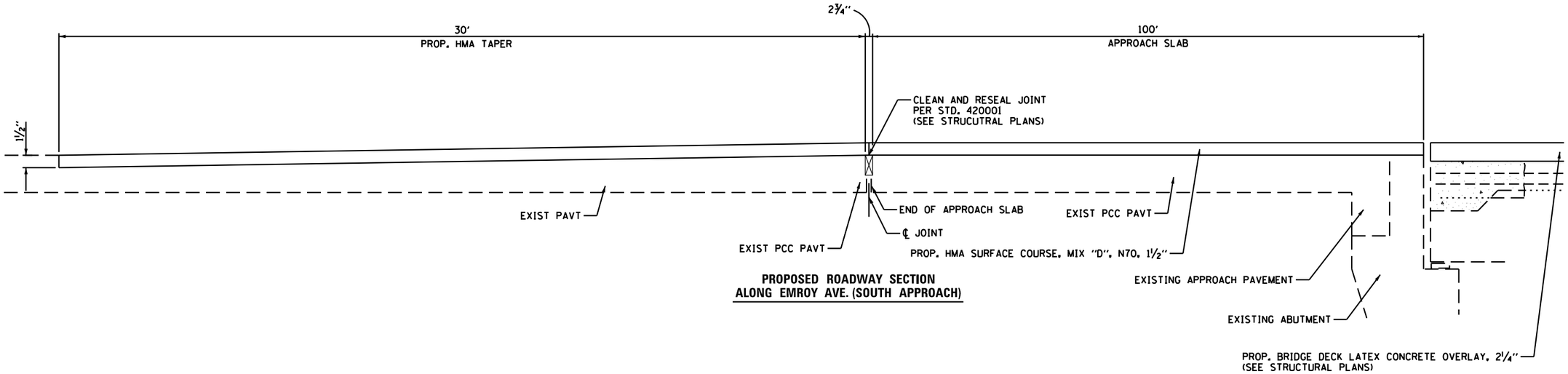
ALONG EMROY AVE. (SOUTH APPROACH)



PROPOSED ROADWAY SECTION
ALONG EMROY AVE. (SOUTH APPROACH)

NOTES:

1. SEE DETAIL BD-32 FOR BUTT JOINT AND HMA TAPER DETAILS.
2. SEE ROADWAY DETAILS (SHEET 1 OF 2) FOR NORTH APPROACH PAVEMENT DETAILS.

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PLOT DATE = 12/12/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMROY AVENUE
ROADWAY DETAIL – SOUTH APPROACH

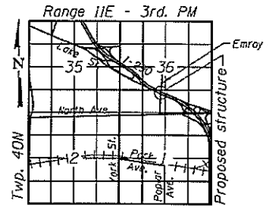
SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	10
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

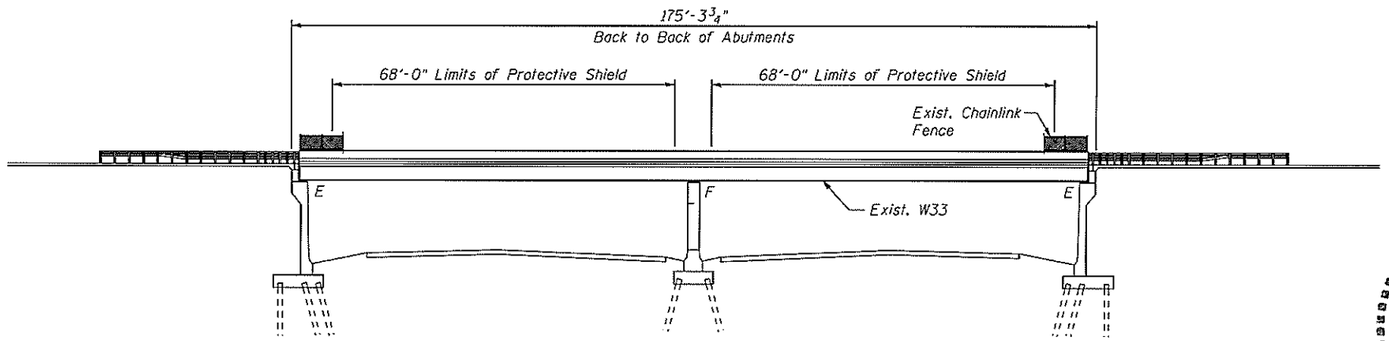
Existing Structure: *The existing structure is a two span steel beam bridge with a 7½" inch reinforced concrete deck. The original structure was built in 1985 as section 100HB-3-R (84).*

An assigned detour will be utilized to redirect traffic around the structure during construction.

No Salvage.



LOCATION SKETCH



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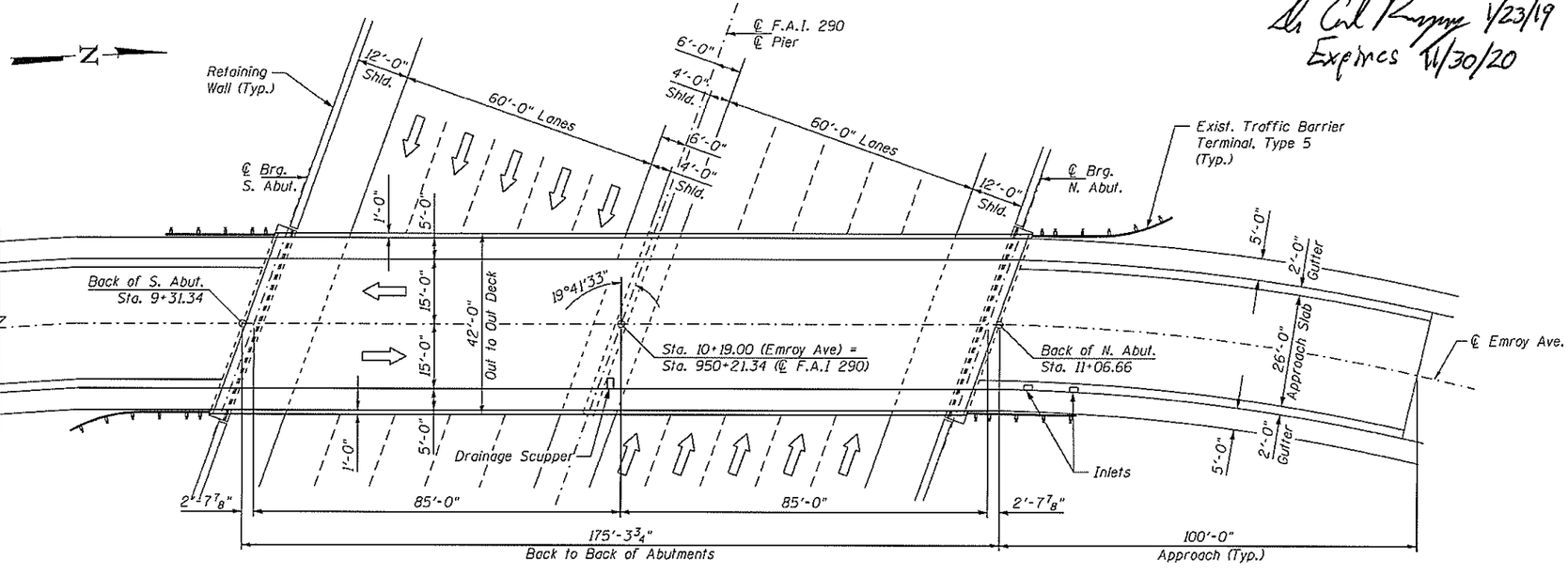


PLAN

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

1/23/19
Expires 11/30/20

SCOPE OF WORK

1. *Bridge deck scarification.*
2. *Repair approach pavement.*
3. *Remove and replace concrete curb and gutter.*
4. *Reconstruct deck joints at each abutment with preformed joint strip seal.*
5. *Clean and reseal relief joints.*
6. *Place overlay on bridge deck and approaches.*

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

DESIGN STRESSES

FIELD UNITS

f_y = 60,000 psi (reinforcement)

GENERAL PLAN AND ELEVATION
I-290 (EISENHOWER EXPRESSWAY)
AT EMROY AVENUE
F.A.I. RT. 290 - SEC. 100HB-3-I-1
DuPAGE COUNTY
STATION 10+19.00
STRUCTURE NO. 022-0149

FILE NAME =	USER NAME =	DESIGNED - AMS	REVISED -
		CHECKED - JMH	REVISED -
	PLOT SCALE =	DRAWN - DR	REVISED -
	PLOT DATE =	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 022-0149
SHEET NO. 51 OF 56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	11
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

INDEX OF SHEETS

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.

2. Plan dimensions and details relative to existing plans are subject to nominal construction 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 at the unit price bid for the work.

3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, and beams, diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams, diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.

4. Protective coat shall be applied to the bridge deck sidewalks, inside and top faces of parapets, and all new concrete and concrete overlays.

5. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

6. The removal and reattachment of guardrail, hand rail, steel railings, traffic barrier terminal, etc. required for repair work (e.g. transverse joint replacement) shall be included in the contract unit price of the work item being performed except as noted.

7. Cost of removal and disposal of existing expansion joints shall be included in the cost of Concrete Removal.

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

9. Synthetic fibers shall be added to the Bridge Deck Latex Concrete overlay, see Special Provisions.

10. Prior to pouring the new concrete deck, all heavy or loose mill scale and other loose or potentially detrimental foreign materials 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 existing concrete.

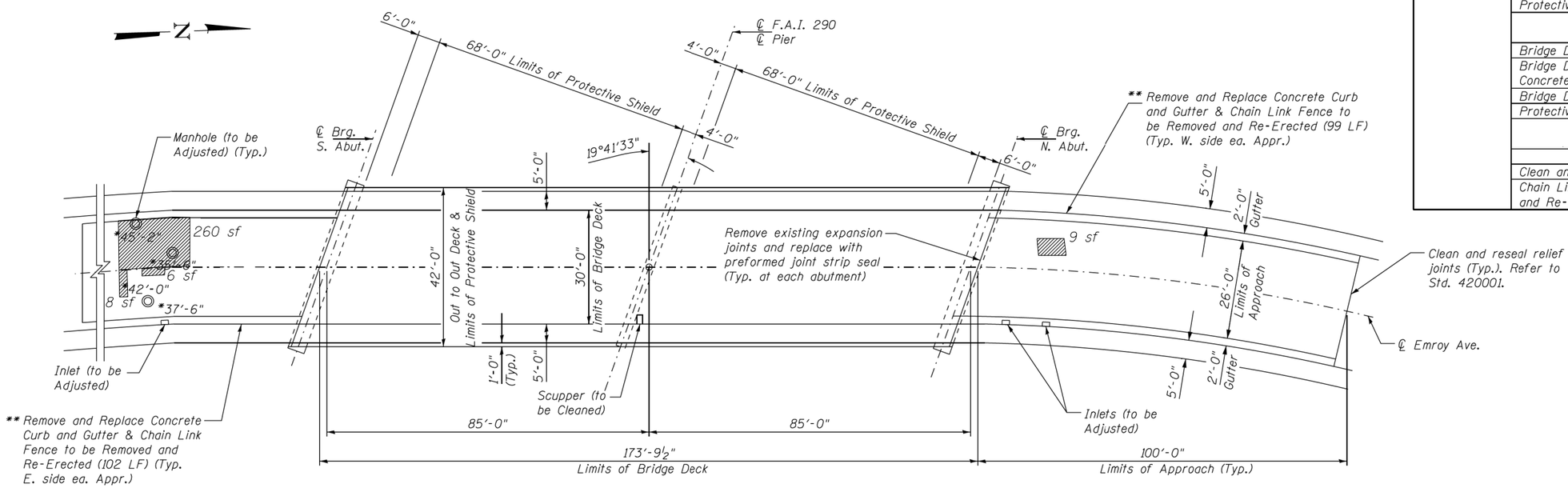
TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	13.8
Protective Shield	Sq. Yd.	544
Concrete Superstructure	Cu. Yd.	14.3
Bridge Deck Grooving	Sq. Yd.	546
Protective Coat	Sq. Yd.	885
Reinforcement Bars, Epoxy Coated	Pound	1590
Preformed Joint Strip Seal	Foot	89.5
Clean and Reseal Relief Joint	Foot	52
Drainage Scuppers to be Adjusted	Each	1
Approach Slab Repairs (Partial Depth)	Sq. Yd.	10
Chain Link Fence to be Removed and Re-Erected	Foot	402
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	560
Bridge Deck Scarification, 3/4"	Sq. Yd.	560
Combination Concrete Curb and Gutter Removal and Replacement	Foot	402

FILE NAME =	USER NAME =	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, BILL OF MATERIALS AND INDEX OF SHEETS STRUCTURE NO. 022-0149	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JMH	REVISED -			290	100HB-3-1-1	DuPAGE	17	12
	PLOT SCALE =	DRAWN - DR	REVISED -						CONTRACT NO. 60M75	
	PLOT DATE =	CHECKED - JMH	REVISED -		SHEET NO. S2 OF S6 SHEETS			ILLINOIS	FED. AID PROJECT	

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
▨	Approach Slab Repair (Partial Depth)	Sq. Yd.	32
	Protective Coat	Sq. Yd.	885
	Bridge Deck Grooving	Sq. Yd.	546
	Bridge Deck Latex Concrete Overlay, $2\frac{1}{4}$"	Sq. Yd.	560
	Bridge Deck Scarification, $\frac{3}{4}$"	Sq. Yd.	560
	Protective Shield	Sq. Yd.	544
	Clean and Reseal Relief Joint	Foot	52
	Chain Link Fence to be Removed and Re-Erected	Foot	402



PLAN

* Dimension from ℄ Jt. at S.W. conrner to ℄ manholes.

** Refer to District 1 Detail BD-24 for Concrete Curb and Gutter details. Refer to roadway plans for Fence Re-Erection details.

Notes:

1. Approach slab repair areas are estimated based on visual inspection. Actual repair areas and locations shall be determined by the Engineer and shown on As-built plans.
2. Bridge Deck Scarification, $\frac{3}{4}$", and Bridge Deck Latex Concrete Overlay, $2\frac{1}{4}$" shall be performed over the limits of the bridge deck, excluding the transverse joint reconstruction areas.
3. Protective coat shall be applied to the bridge deck sidewalks, inside and top faces of parapets and all new concrete and concrete overlays.
4. The following items apply to the extents of the approaches:
   - Bituminous Materials (Prime Coat)
   - Hot-Mix Asphalt Surface Course, Mix. "D", N70.
5. Deck drains (downspouts, floor drains and scuppers) shall be cleaned prior to placement of the Latex Concrete Overlay. Cost of cleaning the deck drains is included in Bridge Deck Scarification, $\frac{3}{4}$".
6. Gaps caused by distress around floor drains shall be filled with epoxy as specified in Section 590 of the Standard Specifications. Epoxy shall be inserted after the Bridge Deck Latex Concrete has been applied. Cost included with Bridge Deck Scarification, $\frac{3}{4}$".

FILE NAME =	USER NAME =	DESIGNED - AMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE DECK AND APPROACH SLAB REPAIRS STRUCTURE NO. 022-0149	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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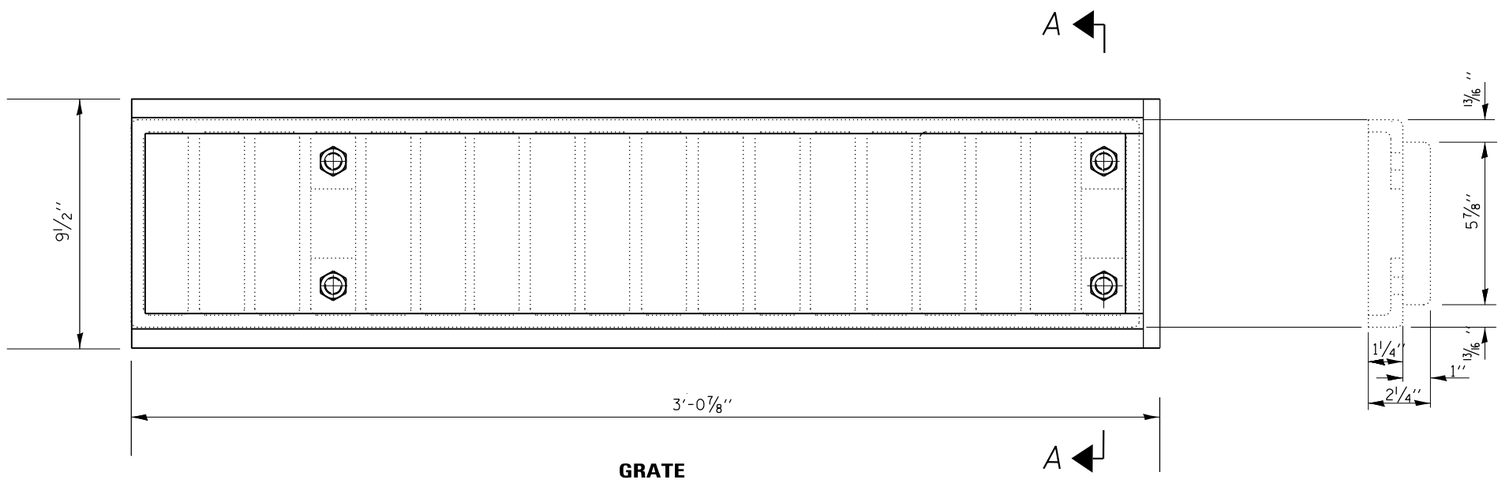
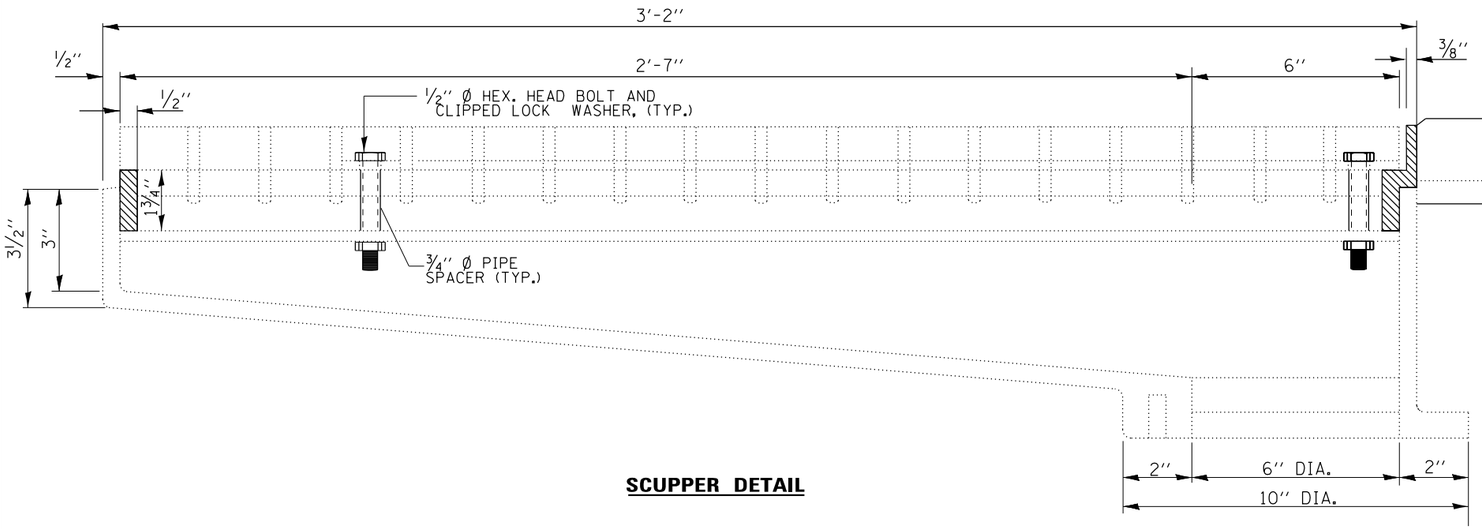
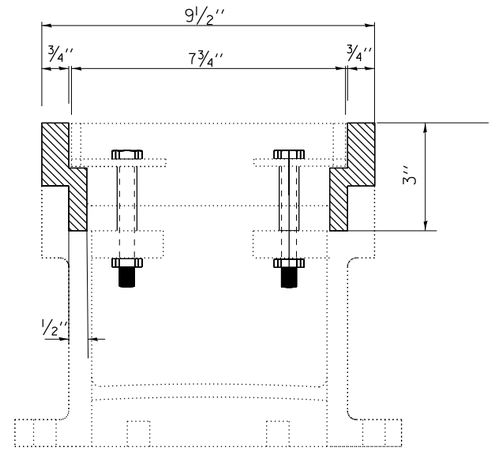


GRATE



SCUPPER DETAIL



SECTION A–A

NOTES:

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scupper and make necessary adjustments prior to construction of New Adjusting Ring or ordering of material for Adjusting Drainage Scupper.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Bolts. Anchor Studs, Washers and Nuts shall conform to the requirements of ASTM A 307 and shall be Galvanized according to the requirements of AASHTO M 232.
4. Cast Iron Parts shall be unfinished.
5. Adjusting Ring shall be from Neenah and approved equal. Structural Steel weldments or equal sections and of the same configuration may be submitted for Cast Iron. Fillet or full Penetration Welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Ring to secure to existing Scupper. Electrode shall be compatible with cast Iron.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and re-install grates is included in the cost for Drainage Scupper to be Adjusted.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers to be Adjusted	Each	1

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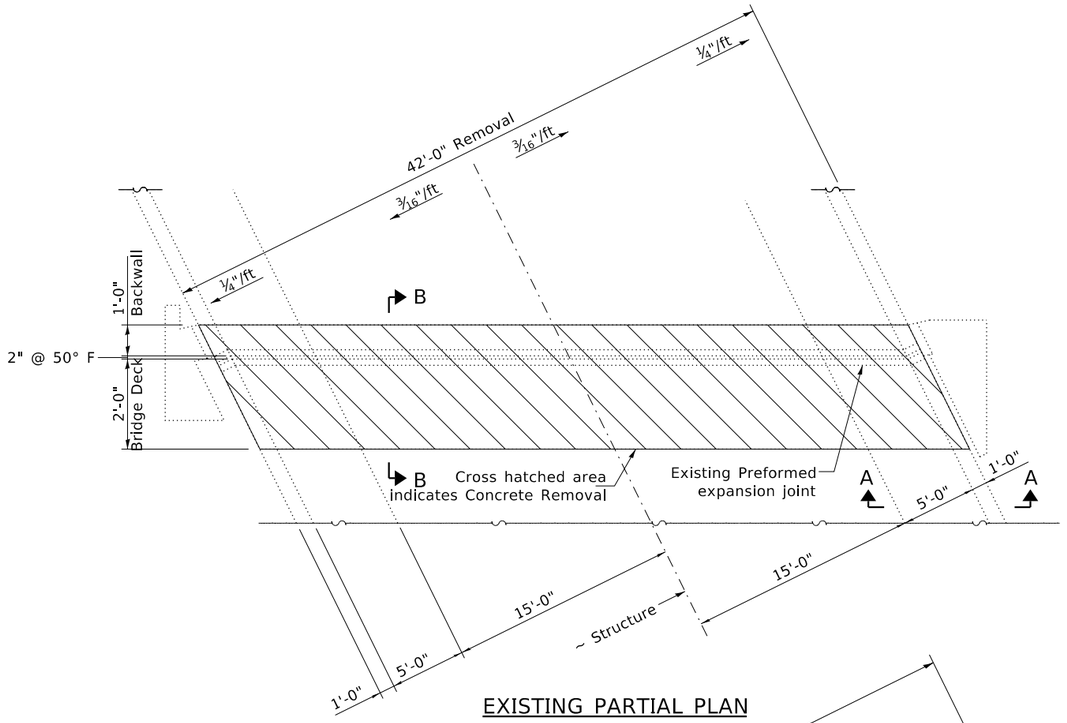
PLOT DATE = 1/22/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

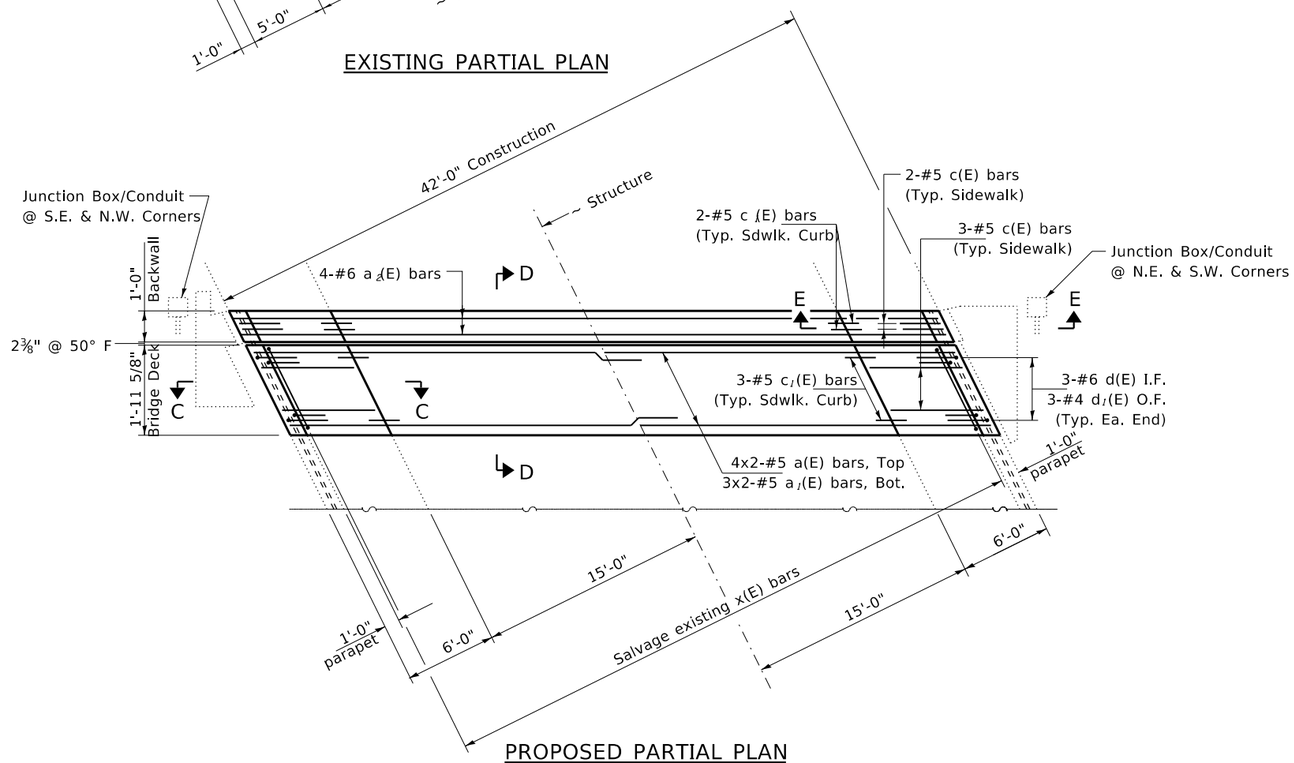
ADJUSTING DRAINAGE SCUPPER DETAILS

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	13A
		CONTRACT NO. 60M75		
		ILLINOIS	FED. AID PROJECT	



EXISTING PARTIAL PLAN



PROPOSED PARTIAL PLAN

Refer to Section C-C on
Expansion Joint Details Sheet
For More Information,
North Joint Shown,
South Joint Similar

BILL OF MATERIAL

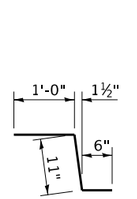
Bar	No.	Size	Length	Shape
a(E)	16	#5	24'-4"	
a_1(E)	12	#5	23'-10"	
a_2(E)	8	#6	43'-6"	
c(E)	20	#5	5'-8"	
c_1(E)	20	#5	2'-5"	
d(E)	12	#4	3'-9"	
d_1(E)	12	#6	4'-10"	
d_2(E)	8	#4	2'-1"	
h(E)	16	#5	3'-11"	
Concrete Removal			Cu. Yd.	13.8
Concrete Superstructures			Cu. Yd.	14.3
Reinforcement Bars, Epoxy Coated			Pound	1,590

MINIMUM BAR LAPS

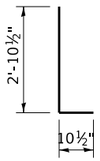
#5 Bars - 3'-2"

Notes:

1. Work this sheet with Expansion Joint Details
2. I.F. denotes Inside Face.
   O.F. denotes Outside Face.



Bar c1(E)



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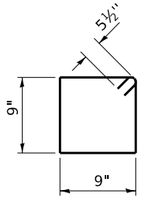

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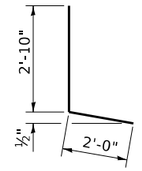

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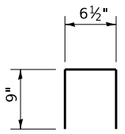

Bar d2(E)

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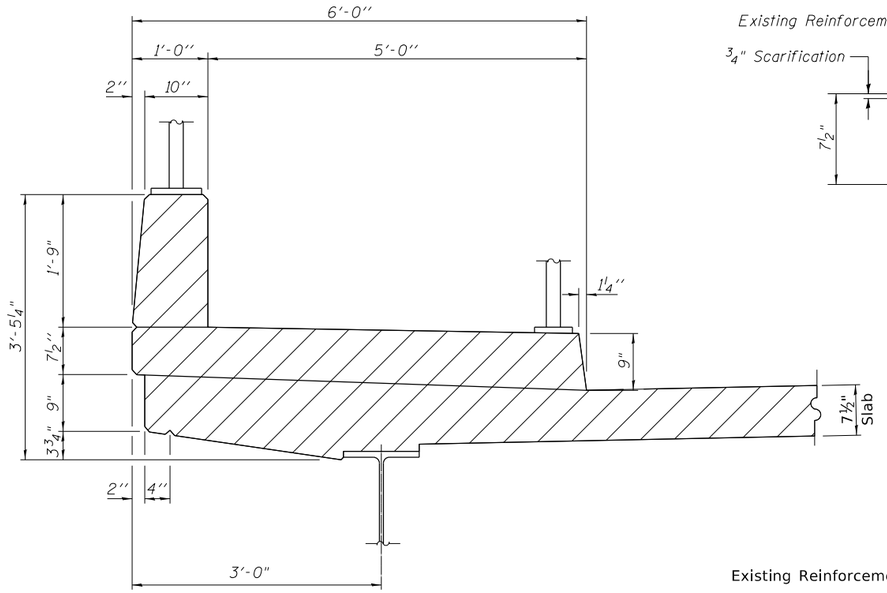
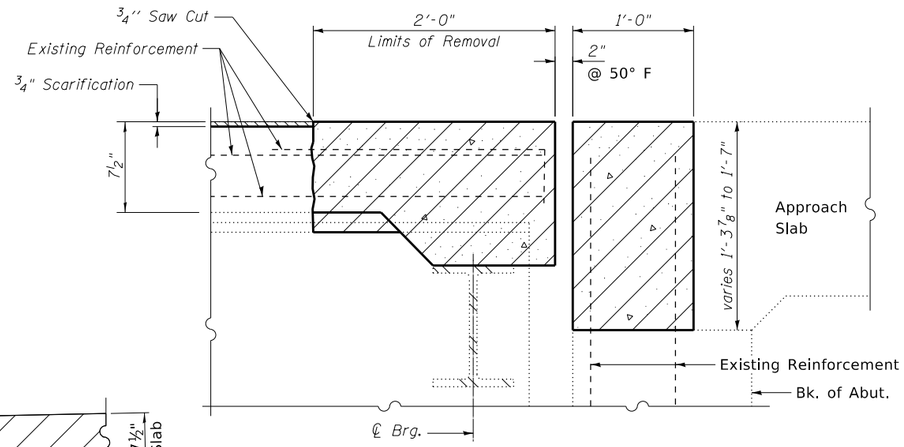
EXPANSION JOINT REPAIRS
STRUCTURE NO. 022-0149
SHEET NO. S4 OF S6 SHEETS

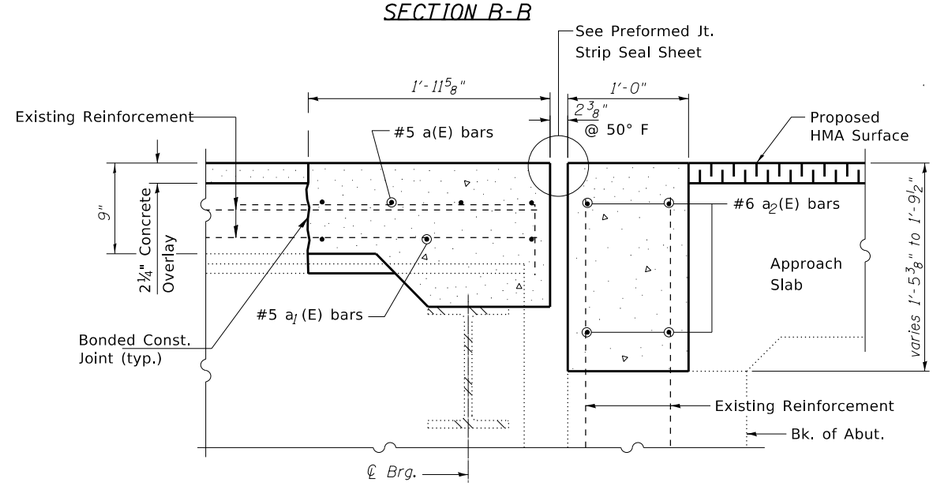
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	14
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			



SECTION A-A



SECTION B-B



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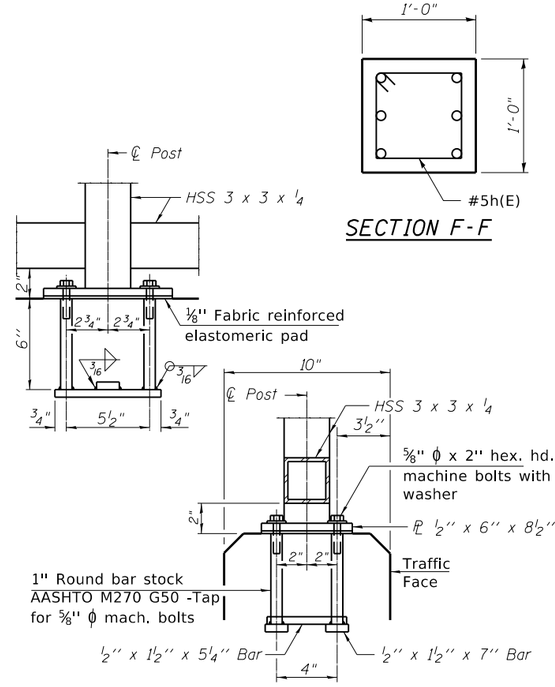
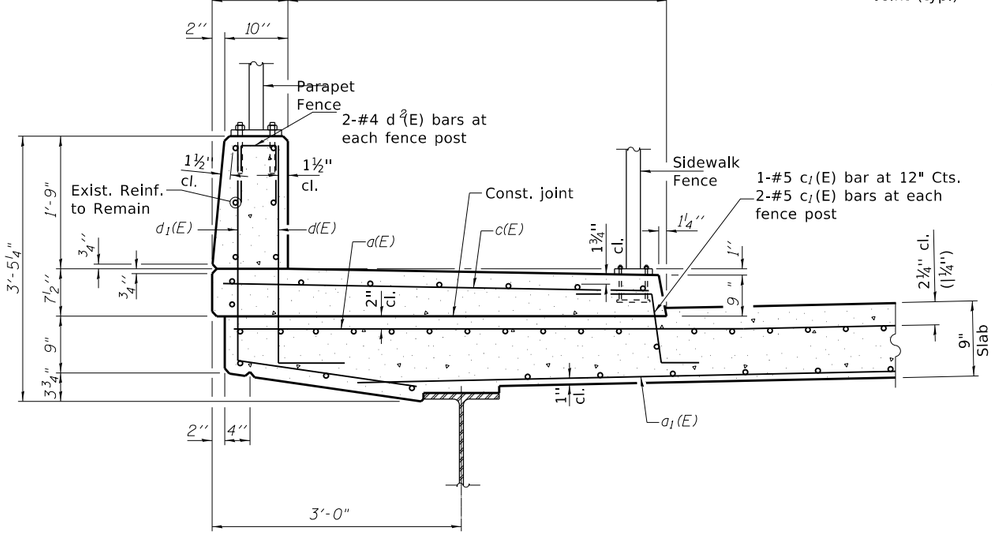
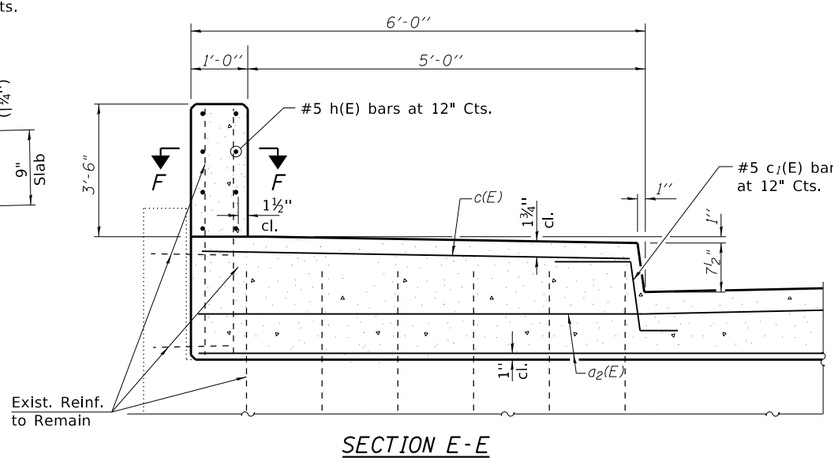


SECTION F-F



SECTION C-C



SECTION E-E

Notes:

1. *Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.*
2. *Any reinforcement bars that are damaged during removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.*
3. *Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.*
4. *Cost of removal and disposal of the existing expansion joints shall be included with the cost of Concrete Removal.*
5. *Cost of removal and reinstallation of the existing fence shall be included with the cost of Concrete Removal.*
6. *The Contractor shall exercise extreme care with the existing conduits, if any, in sections of the deck or parapet to be removed and to protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer. No splicing will be allowed to any cable damage resulting from this work, instead the Contractor will be required to repair the entire span of any damaged cable at no additional cost to the Department.*
7. *Work this sheet with Sheets S4.*

ANCHOR BOLT DETAILS

Parapet fence shown. Sidewalk fence similar.
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS
STRUCTURE NO. 022-0149
SHEET NO. S5 OF S6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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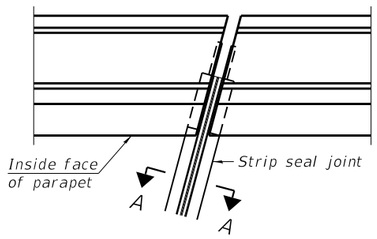
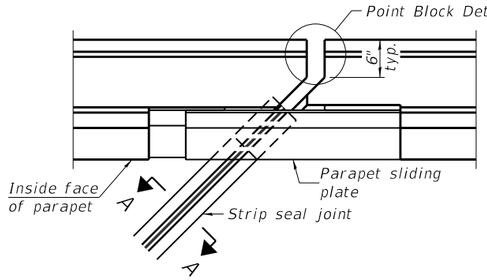
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

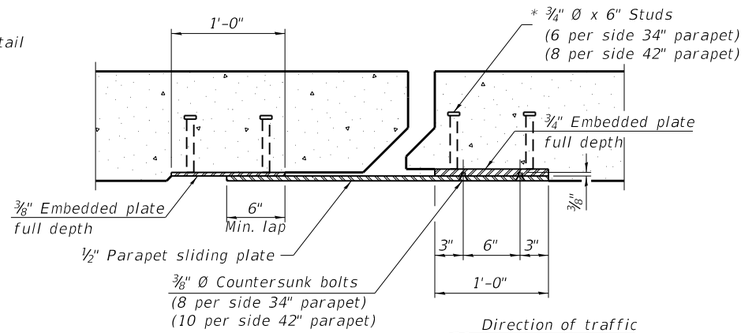


FOR SKEWS ≤ 30°

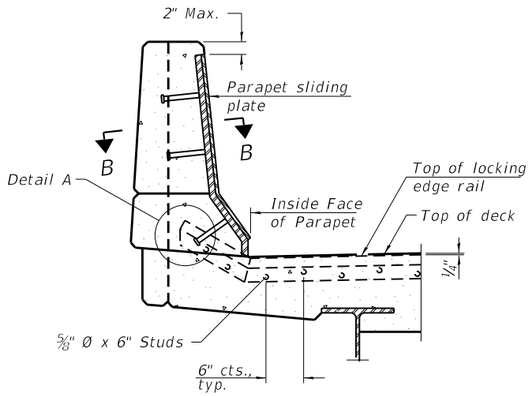


FOR SKEWS > 30°

PLAN AT PARAPET

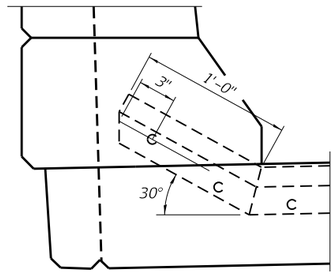


SECTION B-B

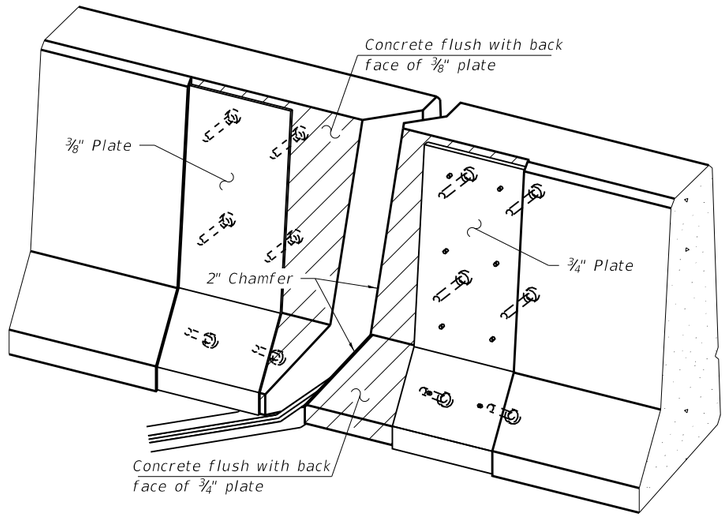


ELEVATION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". 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 locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

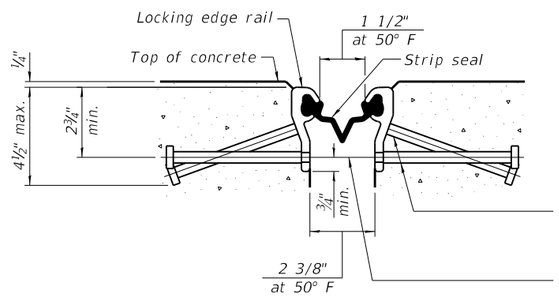
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

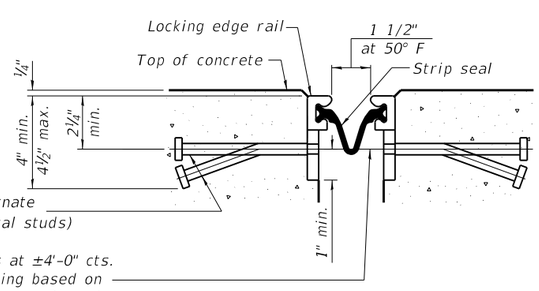
Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT



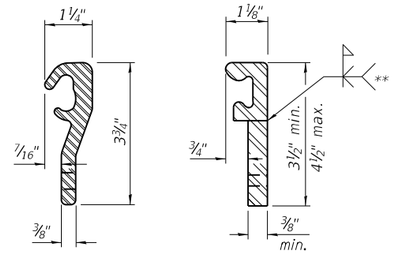
SHOWING WELDED RAIL JOINT

* ⅜" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

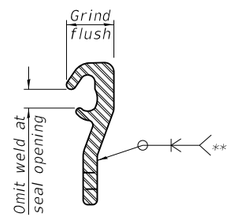


ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	89.5

EJ-SS-S 8-11-17

(Sheet 1 of 3)

USER NAME = midyja	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/29/2018	DATE -	REVISED -	

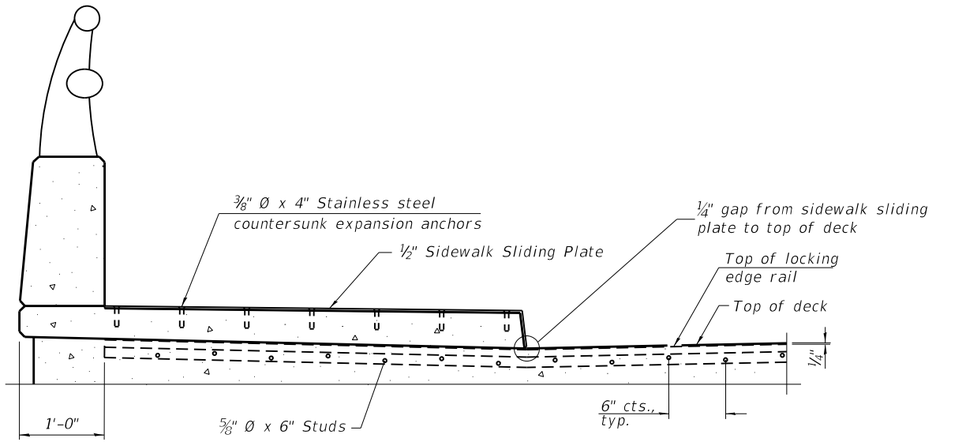
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 022-0149

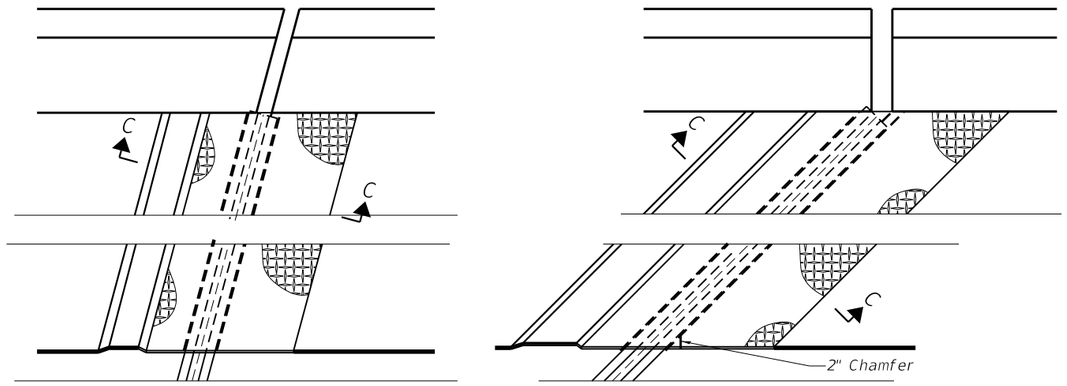
SCALE: | SHEET S6 OF S6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	16
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.Illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1160111\CADData\Design\D1160111-sht-plan.dgn



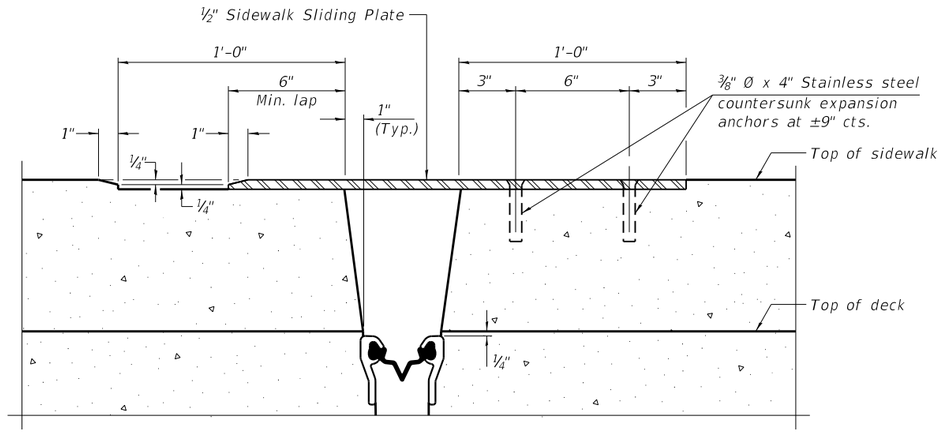
ELEVATION AT RAISED SIDEWALK



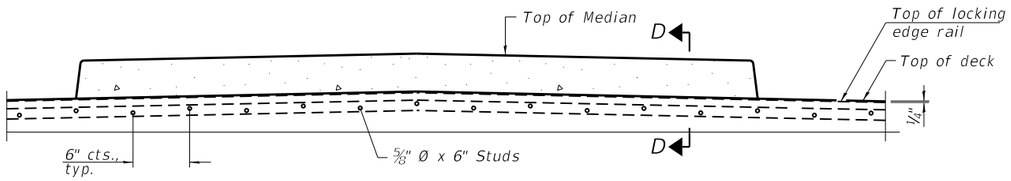
(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT RAISED SIDEWALK

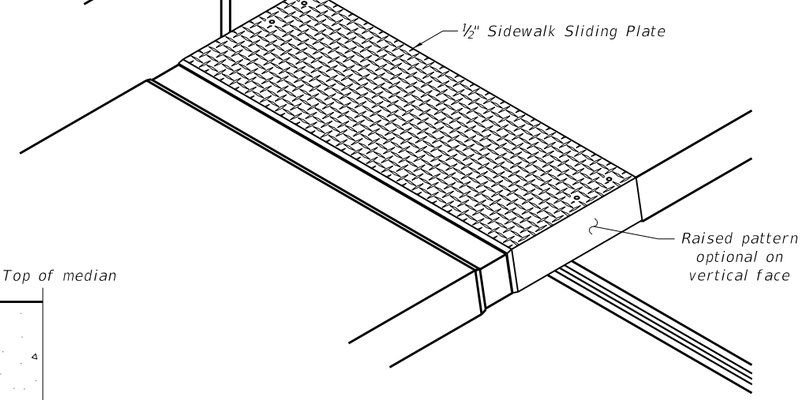


SECTION C-C

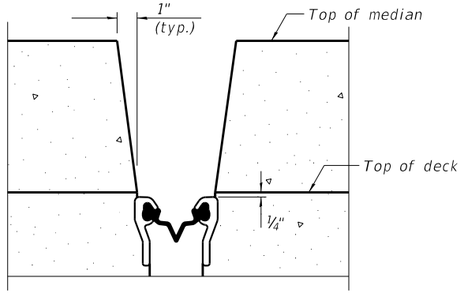


ELEVATION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



TRIMETRIC VIEW



SECTION D-D

(at Rt. ∠'s)

EJ-SS-S 8-11-17

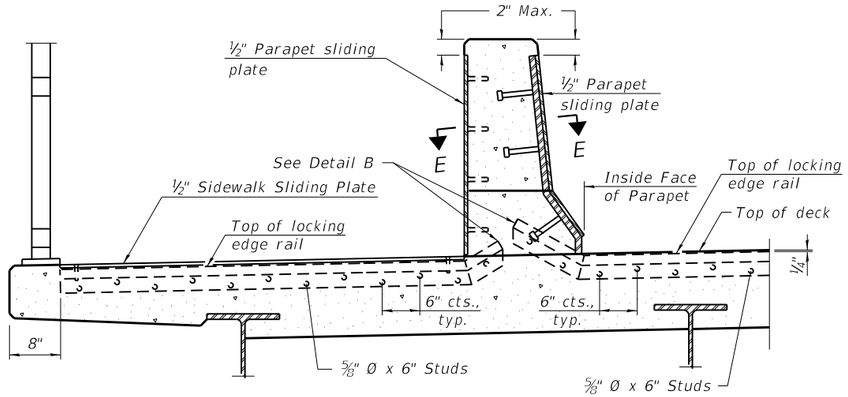
(Sheet 2 of 3)

USER NAME = midyja	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/29/2018	DATE -	REVISED -	

PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 022-0149

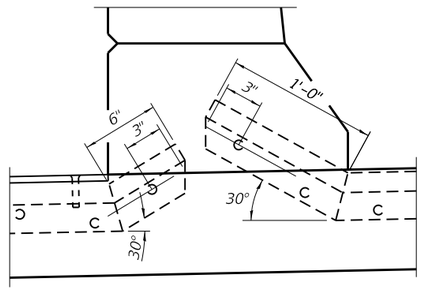
SCALE: | SHEET S6A OF S6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	16A
		CONTRACT NO. 60M75		
	ILLINOIS	FED. AID PROJECT		

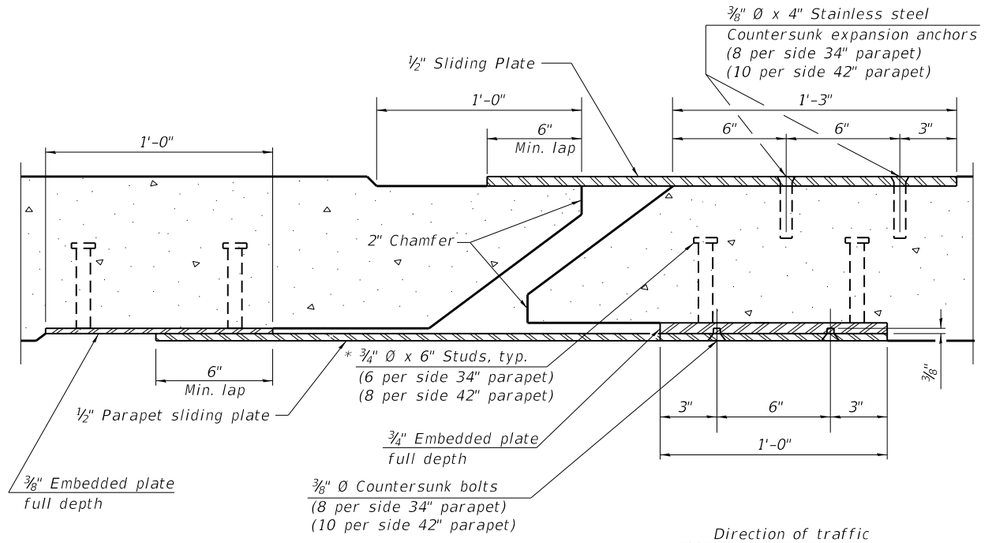


ELEVATION AT DECK LEVEL SIDEWALK

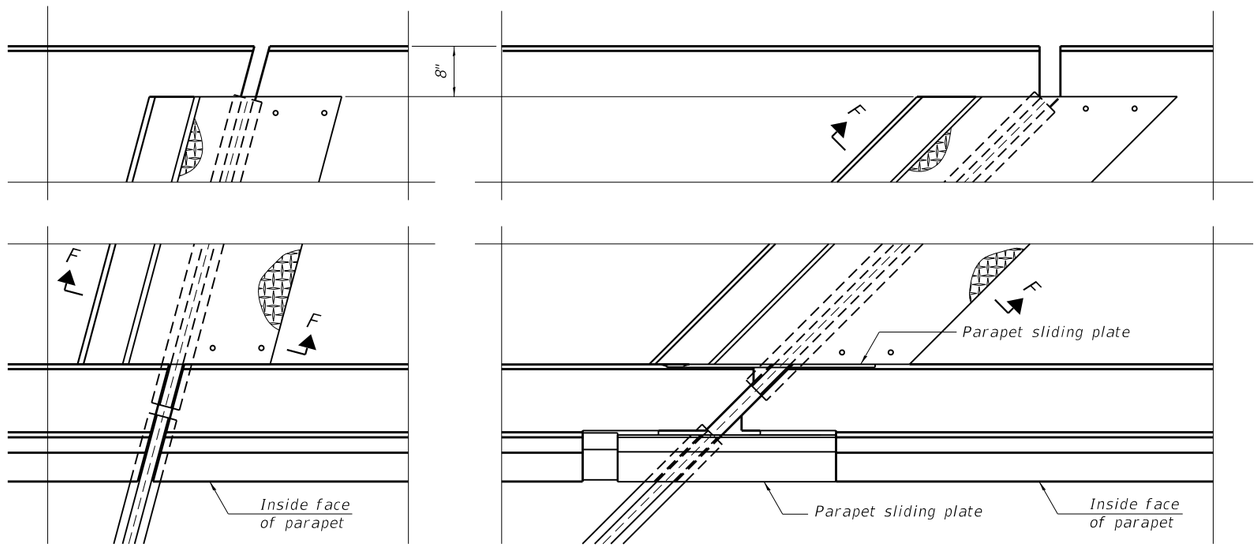
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL B



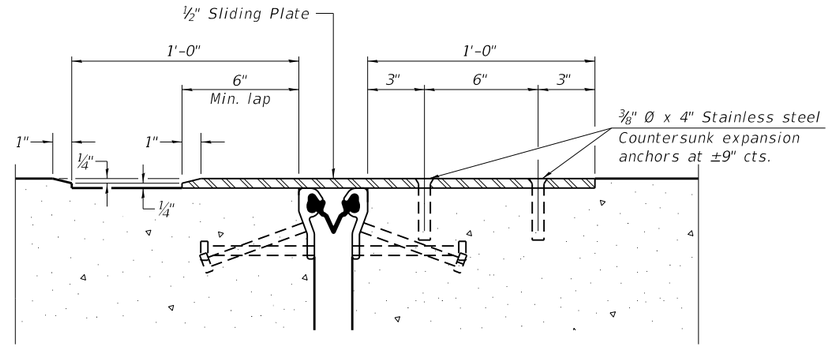
SECTION E-E



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

EJ-SS-S

8-11-17

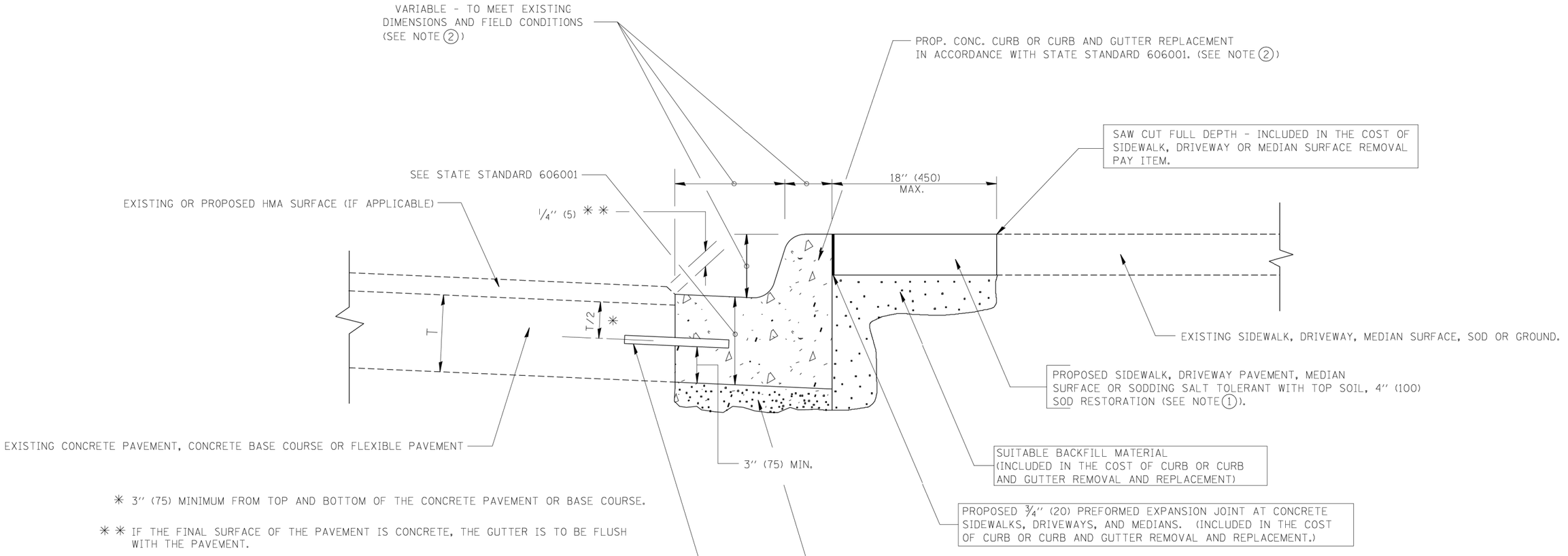
USER NAME = mldyja	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/29/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 022-0149

SCALE: | SHEET S6B OF S6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DUPAGE	17	16B
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

* * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

(2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT:

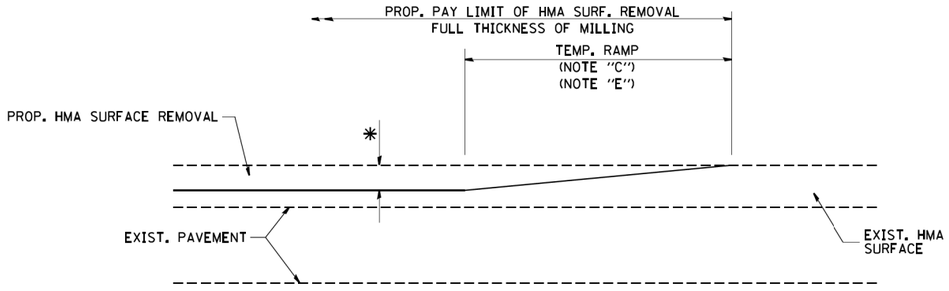
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CJRB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\bd24.dgn	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
		DRAWN -	REVISED - A. ABBAS 03-21-97		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09		

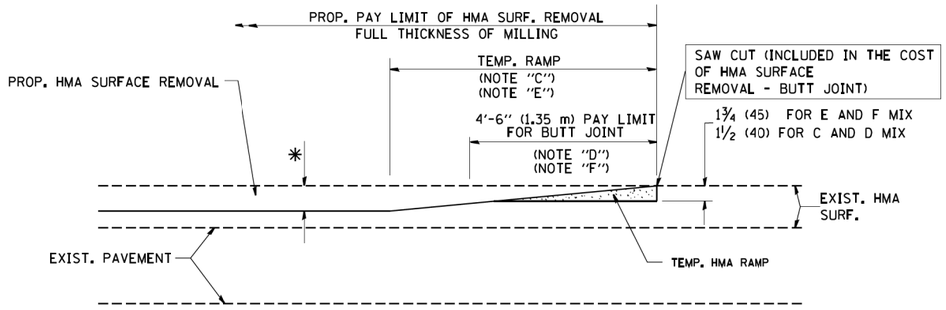
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	17
	BD600-06 (BD-24)	CONTRACT NO. 60M75		
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

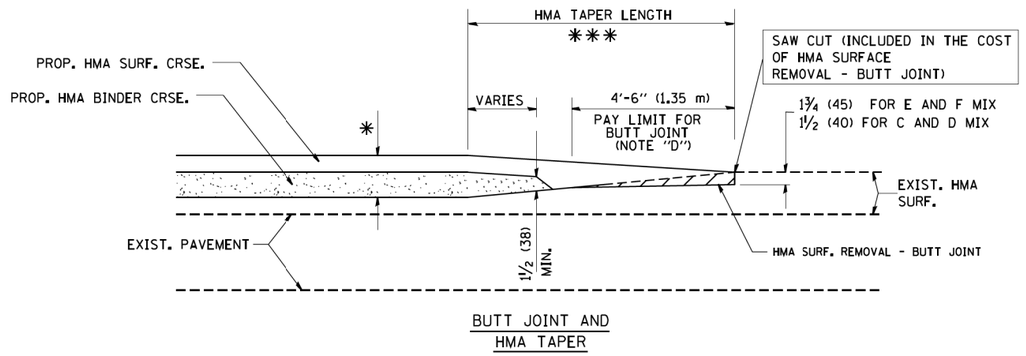


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

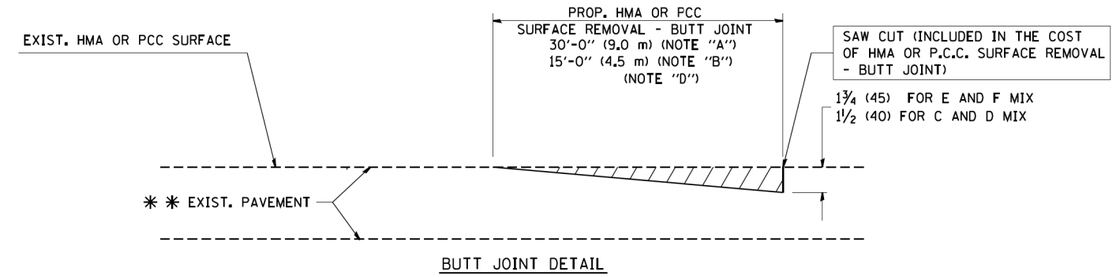
OPTION 2

TYPICAL TEMPORARY RAMP

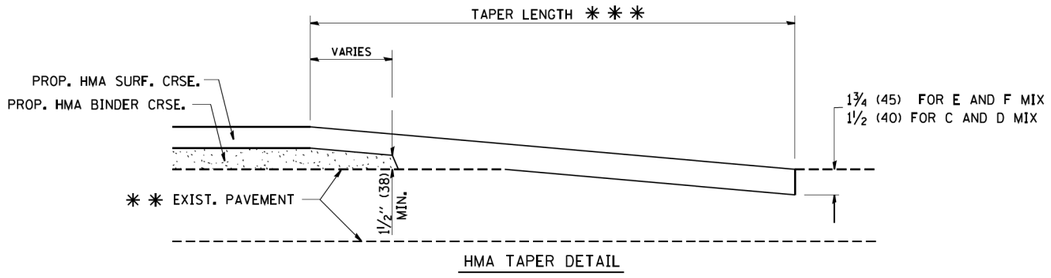


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

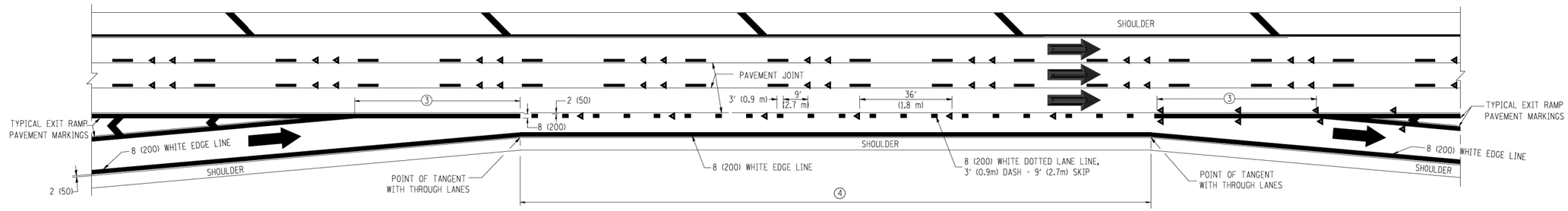
BASIS OF PAYMENT:

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

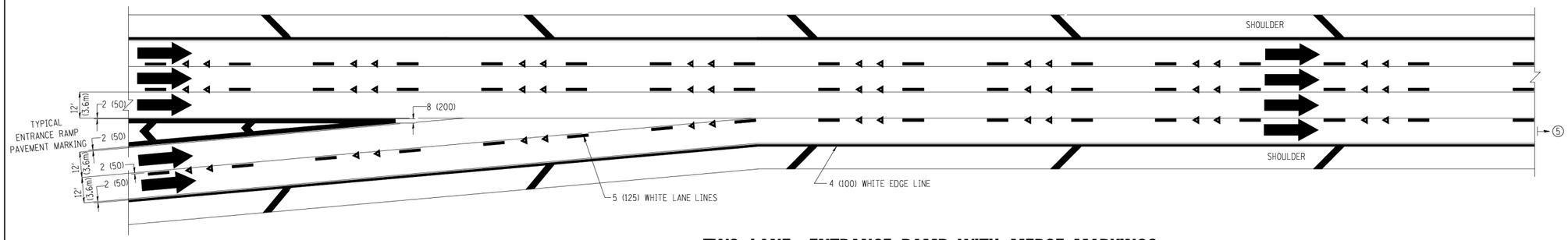
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = geglienobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS
		DRAWN -	REVISED - A. ABBAS 03-21-97		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01		
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

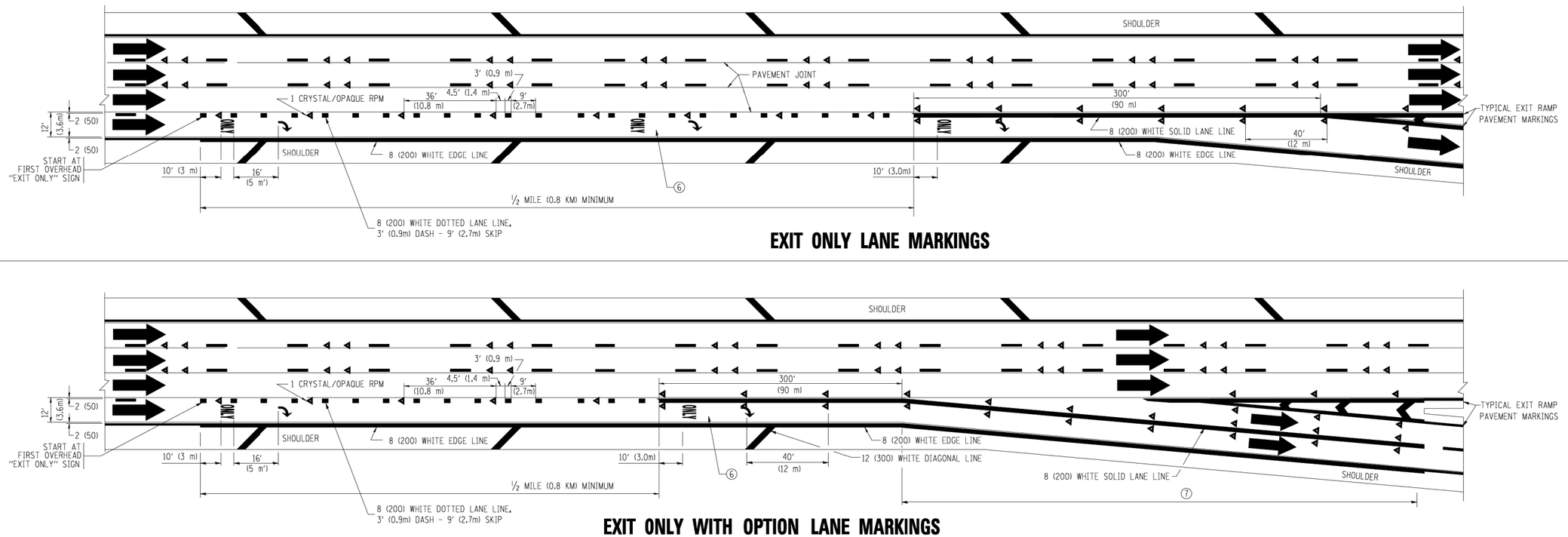
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	17A
	BD400-05 BD32	CONTRACT NO. 60M75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS

EXIT ONLY WITH OPTION LANE MARKINGS

NOTES

③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).

④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.

⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.

⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.

⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

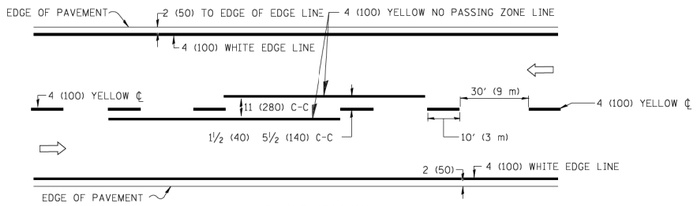
FILE NAME = c:\pw_work\PWIDOT\LEYSA\d0108315\tc12.dgn	USER NAME = leysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

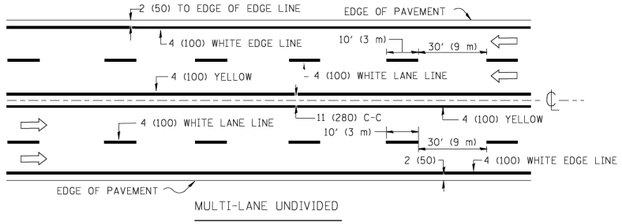
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

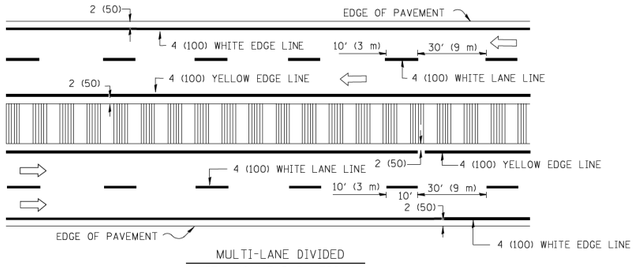
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	17B
	TC-12	CONTRACT NO. 60M75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



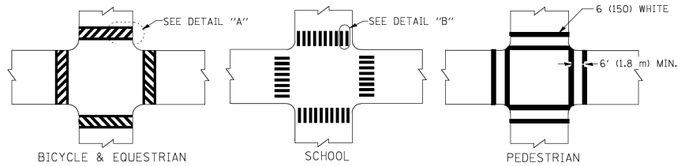
MULTI-LANE UNDIVIDED

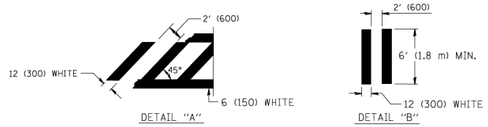


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

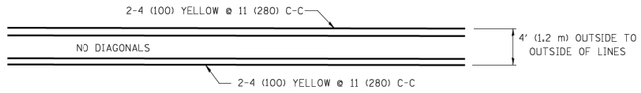
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

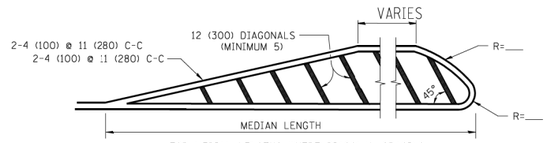




TYPICAL CROSSWALK MARKING



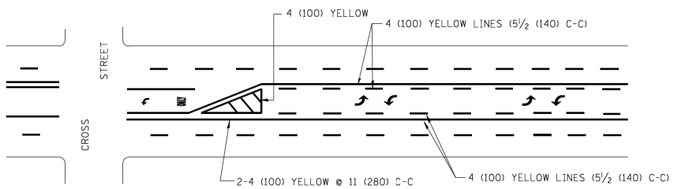
4' (1.2 m) WIDE MEDIANS ONLY



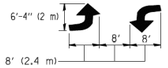
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

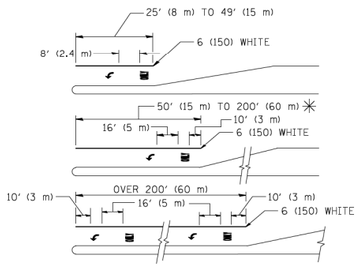


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

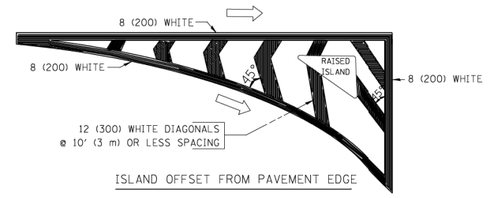


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

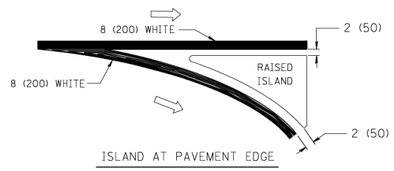
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ø 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ø 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (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 ø 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; 5½ (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 ø 6 (150) 12 (300) ø 45° 12 (300) ø 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ø 4 (100) WITH 12 (300) DIAGONALS ø 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ø 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" IS 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) ø 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	17C
	TC-13	CONTRACT NO. 60M75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ROUTE MARKERS

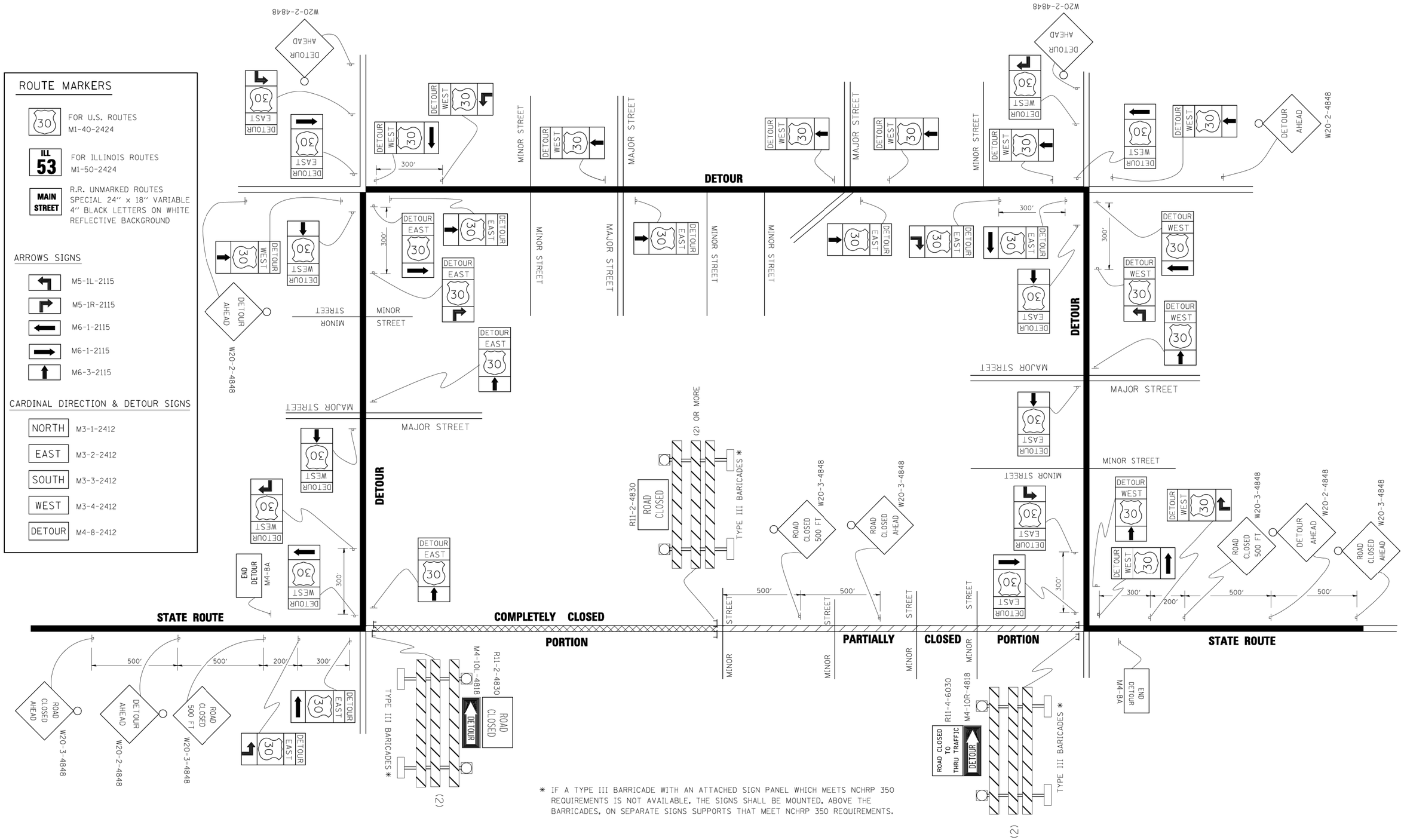
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



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

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		DRAWN -	REVISED - R. BORO 09-14-09
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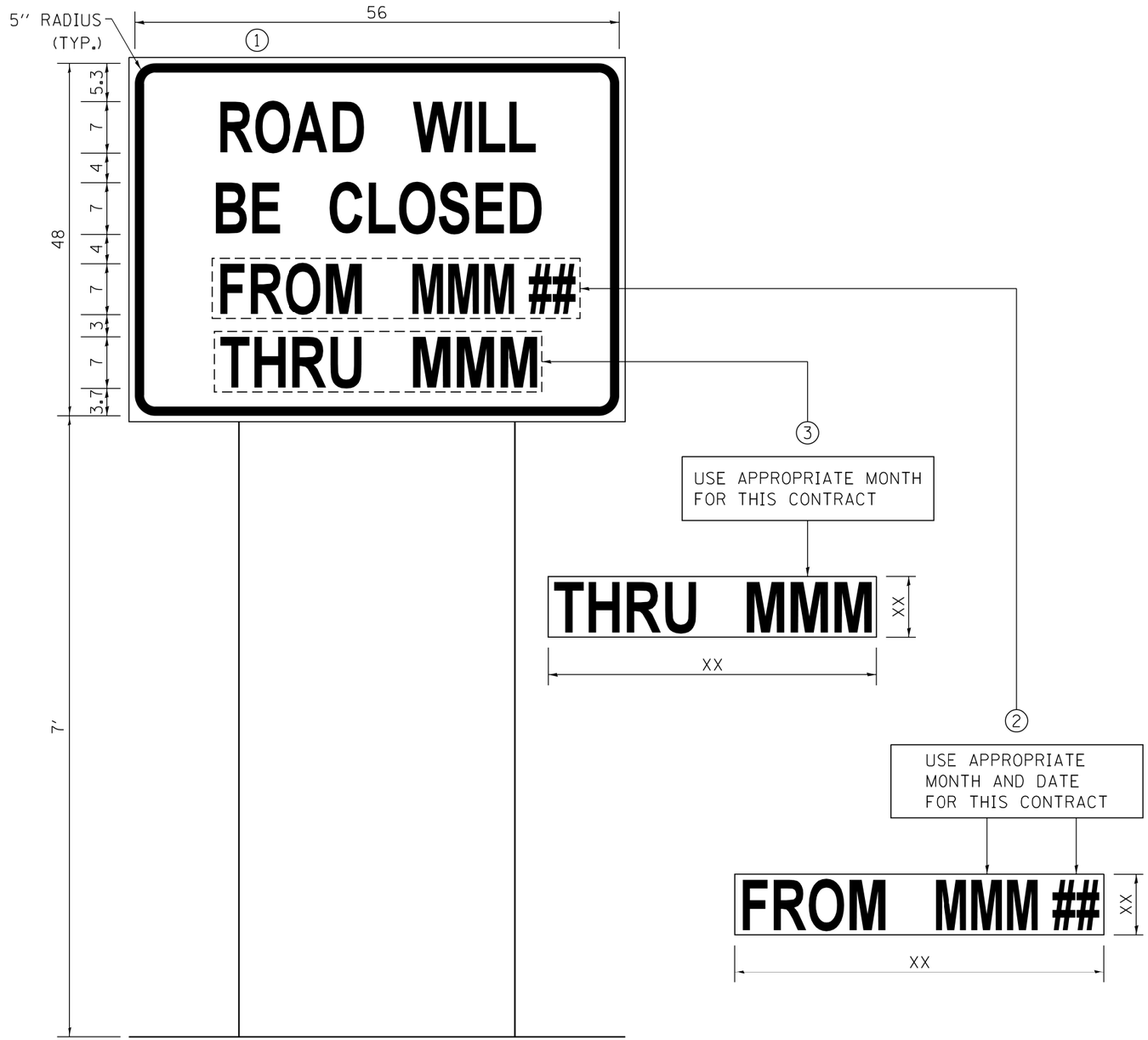
	PLOT DATE = 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-I-1	DuPAGE	17	17D
	TC-21	CONTRACT NO. 60M75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



ARTERIAL ROAD INFORMATION SIGN

FOR ROADS TO BE FULLY CLOSED
AND DETOURED

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
   ALL LETTERING SHALL BE HIGHWAY C FONT.

2. ERECT SIGN ASSEMBLY (POST MOUNTED) WITH PANELS ② AND ③
   IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT
   OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR
   TO START DATE OF FULL CLOSURE. REMOVE SIGN AFTER CLOSURE

3. OVERLAY PANEL ② TO CONTAIN STARTING DATE
   OF FULL CLOSURE AND DETOUR IMPLEMENTATION.
   (EX. ''FROM APR 2'')

4. OVERLAY PANEL ③ TO CONTAIN ENDING MONTH OF
   FULL CLOSURE & DETOUR (EX. ''THRU JULY'').
   OMIT THE DATE ON PANEL ③ ; MONTH ONLY.

5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING''
   FOR ADDITIONAL INFORMATION.

* ALL DIMENSIONS ARE IN INCHES
UNLESS SHOWN OTHERWISE.

FILE NAME = c:\pw_work\pwidot\hemj\d0595766\D116011-sht-plan.dgn	USER NAME = hemj	DESIGNED -	REVISED - S.P.B. 01-07
		DRAWN - D.W.S.	REVISED - S.P.B. 12-09
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - M.D. 06-13
Default	PLOT DATE = 12/13/2018	DATE - 11-96	REVISED - M.D. 01-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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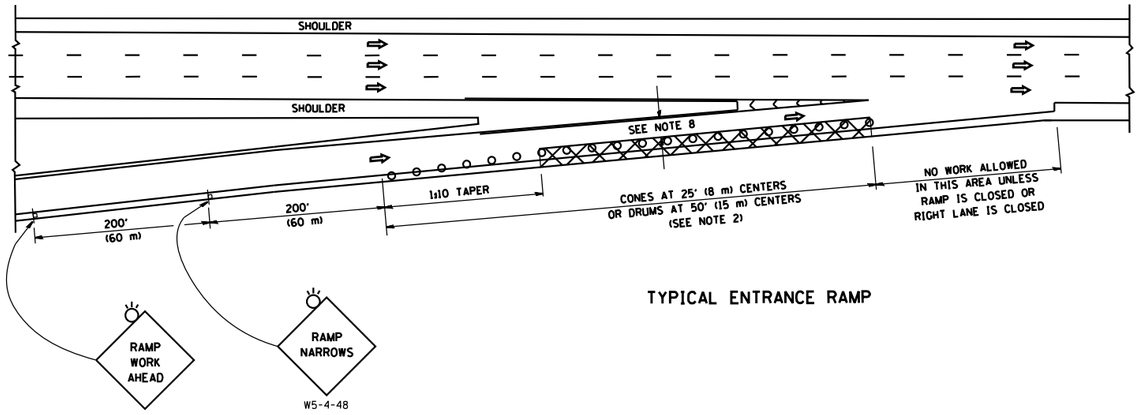
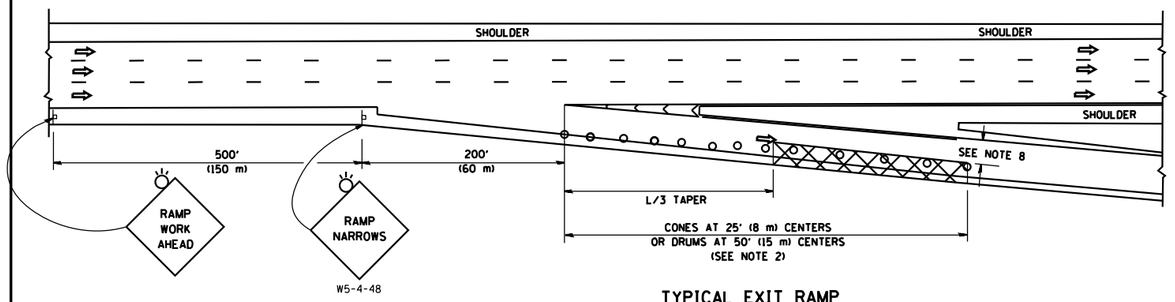
		CONTRACT NO. 60M75		
	ILLINOIS FED. AID PROJECT			

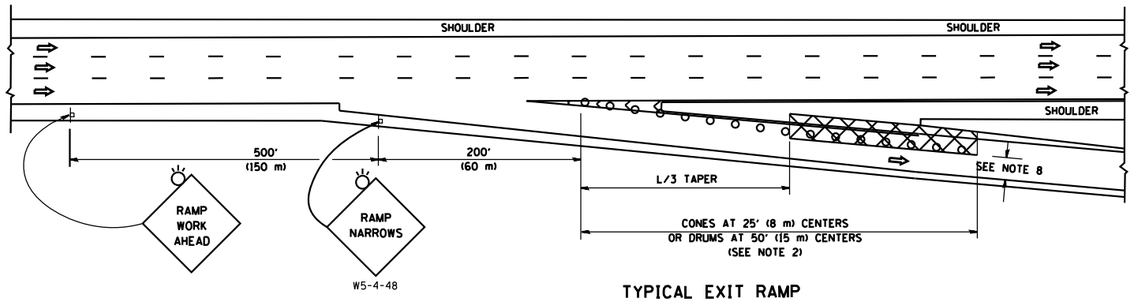
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

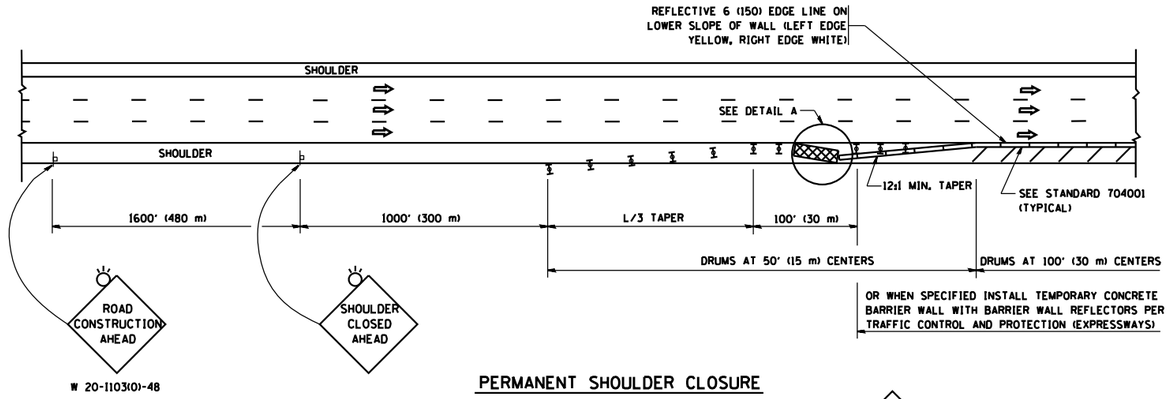


TYPICAL EXIT RAMP

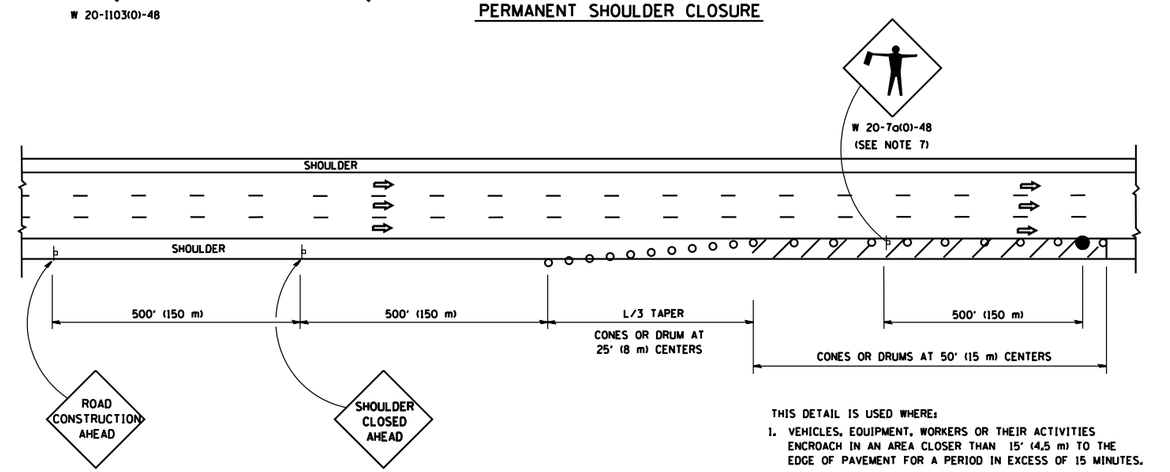


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



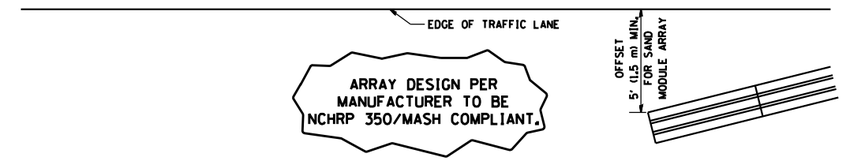
PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(WXS)	L=(WXS)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
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.
5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
   16' MIN. WIDTH CURVE SECTION.

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

FILE NAME = c:\pw_work\pwidot\hemj\d0595766\D116011-ht-plan.dgn	USER NAME = hemj	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
		DRAWN - D.W.S.	REVISED - S.P.B. 12-09		
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Default	PLOT DATE = 12/12/2018	DATE - 11-96	REVISED - M.D. 01-18		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	100HB-3-1-1	DUPAGE	17	17F
		CONTRACT NO. 60M75		
		ILLINOIS FED. AID PROJECT		