

FOR INDEX OF SHEETS, SEE SHEET NO. 02

DESIGN DESIGNATIONS

ALIGNMENT	CLASSIFICATION	DESIGN SPEED	POSTED SPEED	ADT (YEAR)
MANNHEIM ROAD (US 12/20/45) (FAP 330)	PRINCIPAL ARTERIAL	35 MPH	35 MPH	42,000 (2011)
I-290 EISENHOWER EXPRESSWAY	FREEWAY / EXPRESSWAY	55 MPH	55 MPH	141,500 (2012)

STATE OF ILLINOIS 09-20-13 LETTING ITEM 023

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	01
		ILLINOIS	CONTRACT NO. 63860	

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

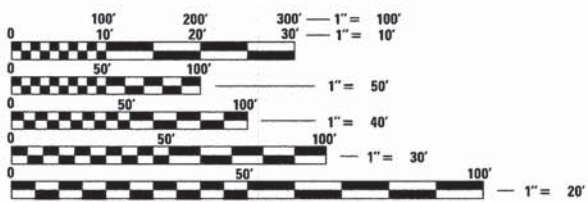
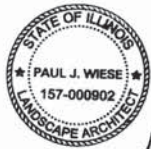
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 330 (MANNHEIM ROAD)
ROOSEVELT ROAD TO WASHINGTON BOULEVARD
STREETScape & I-290 BRIDGE IMPROVEMENTS

SECTION NO.: 06-00045-01-LS
PROJECT: TE-00D1(936)
VILLAGE OF HILLSIDE
COOK COUNTY
JOB: C-91-433-13



PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E., TEL. 847-705-4406 SCHAUMBURG, IL

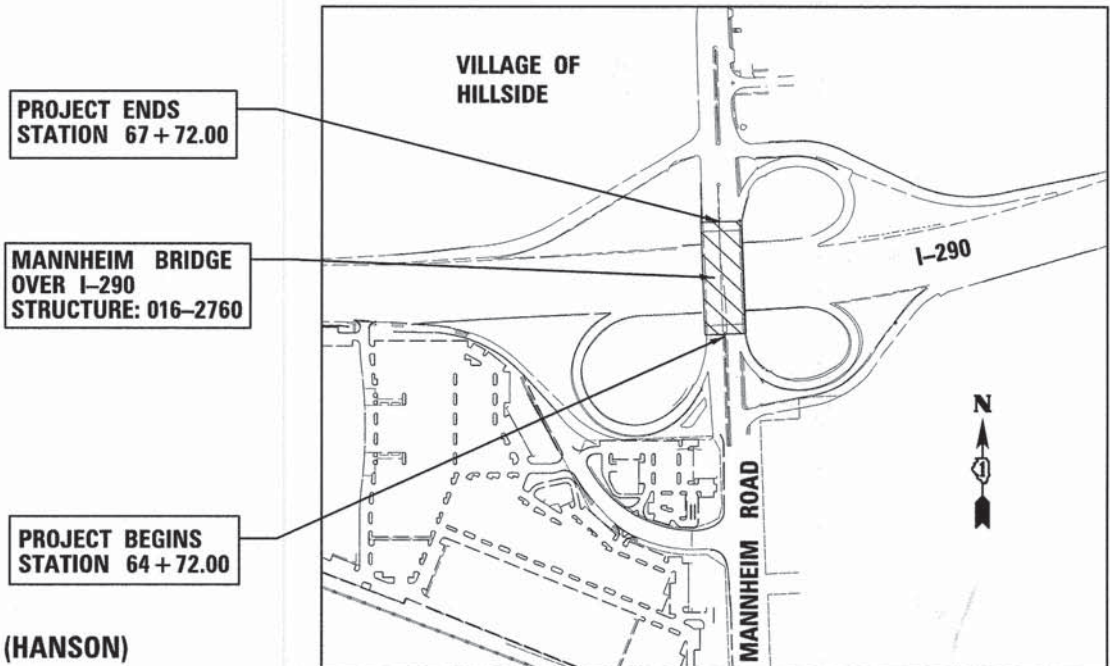


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER (STRUCTURAL): JEFF TATAREK (HANSON)
PROJECT ARCHITECT: PAUL WIESE (JJR)
PROJECT MANAGER: DAVID PETERS (HANSON)

CONTRACT NO. 63860



SE 1/4 SEC. 7, SW 1/4 SEC. 8, NW 1/4 SEC. 17, & NE 1/4 SEC. 18, T-39N, R-12E
PROVISO TOWNSHIP 3RD P.M.

LOCATION MAP
GROSS LENGTH = 300 FT. = (0.06 MILE)
NET LENGTH = 300 FT. = (0.06 MILE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED JUNE 27 20 13
[Signature]
VILLAGE OF HILLSIDE, DIRECTOR OF PUBLIC WORKS

PASSED JULY 9 2013
[Signature]
DISTRICT 1, ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED
REVIEW JULY 9 20 13
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



815 Commerce Drive Suite 200
Oak Brook, Illinois 60523
Telephone: 630.990.3800
Fax: 630.990.3801



SUMMARY OF QUANTITIES

SPECIAL PROVISION	PAY ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
					0031		
x	50104000	BRIDGE RAIL REMOVAL	FOOT	596	596		
	67100100	MOBILIZATION	L SUM	1	1		
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
x	X5091730	BRIDGE FENCE RAILING (SPECIAL)	FOOT	596	596		
x	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1		

* SPECIALTY ITEMS

FILE NAME = c:\pbase\work\do_not_delete\user\dms41955\DL11L0861-h1-500_02.dgn

LAYOUT	
DRAWN	
REVIEWED	

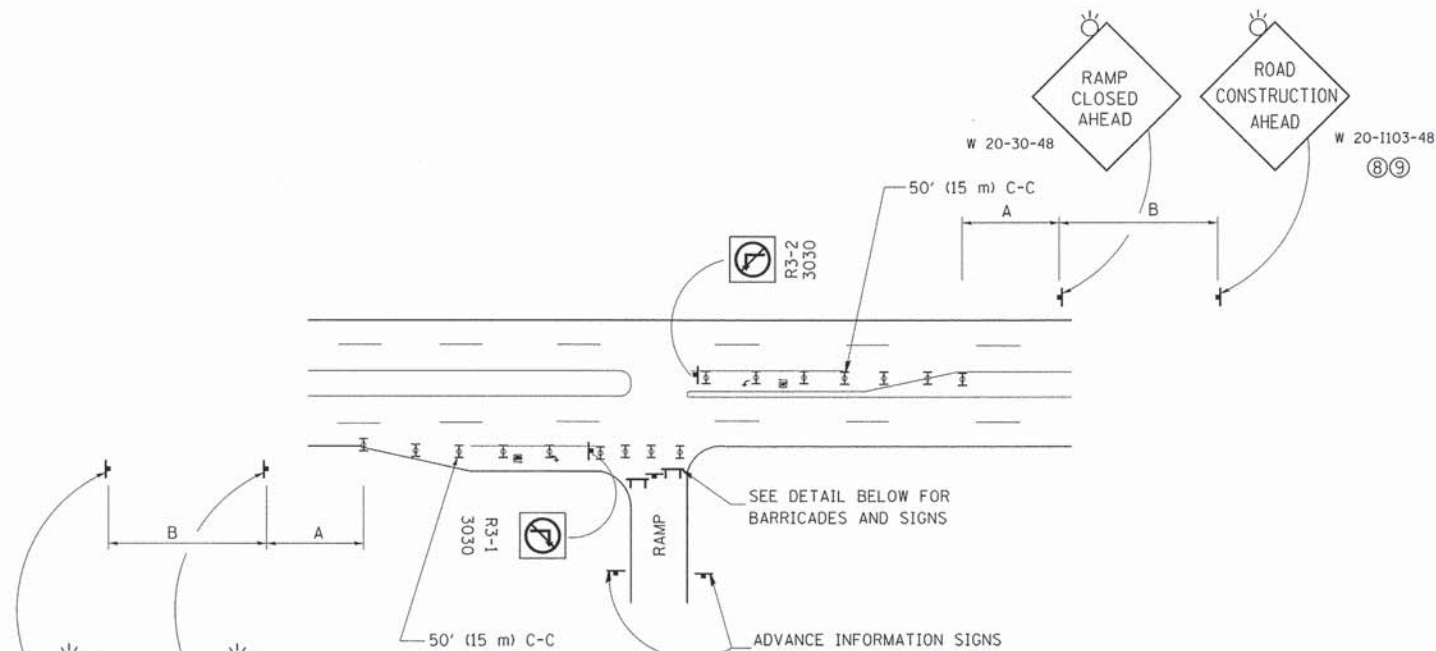
USER NAME = v11a01439	DESIGNED - DWP	REVISED -
	DRAWN - DWP	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - MPV	REVISED -
PLOT DATE = 07/01/2013	DATE - 05/03/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**VILLAGE OF HILLSIDE
MANNHEIM ROAD STREETSCAPE & I-290 BRIDGE IMPROVEMENTS
SUMMARY OF QUANTITIES**

SCALE: AS SHOWN SHEET NO. 03 OF 12 SHEETS STA. 64+72.00 TO STA. 67+72.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	03
				CONTRACT NO. 63860
ILLINOIS				

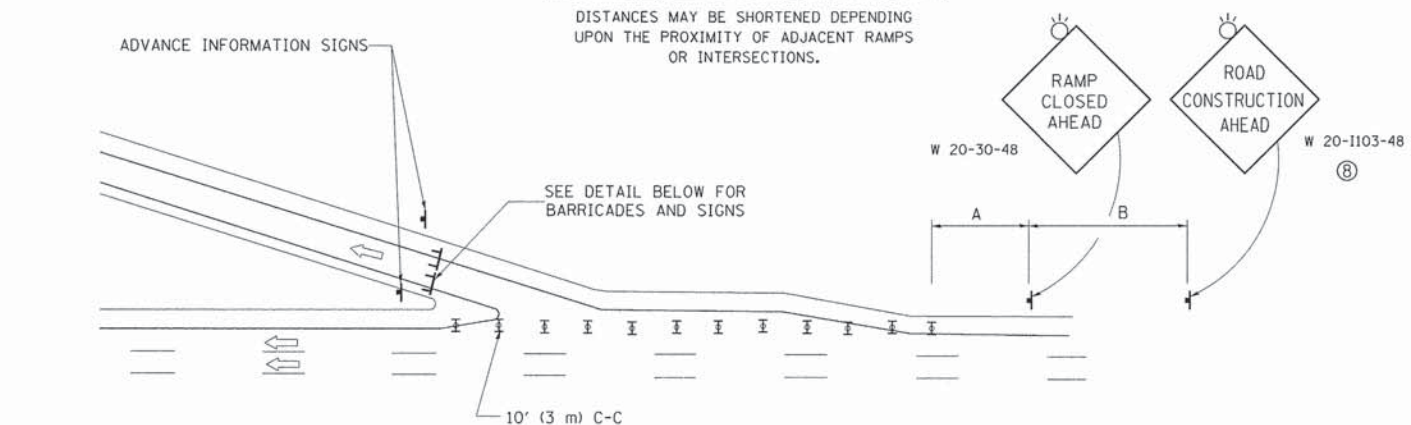


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

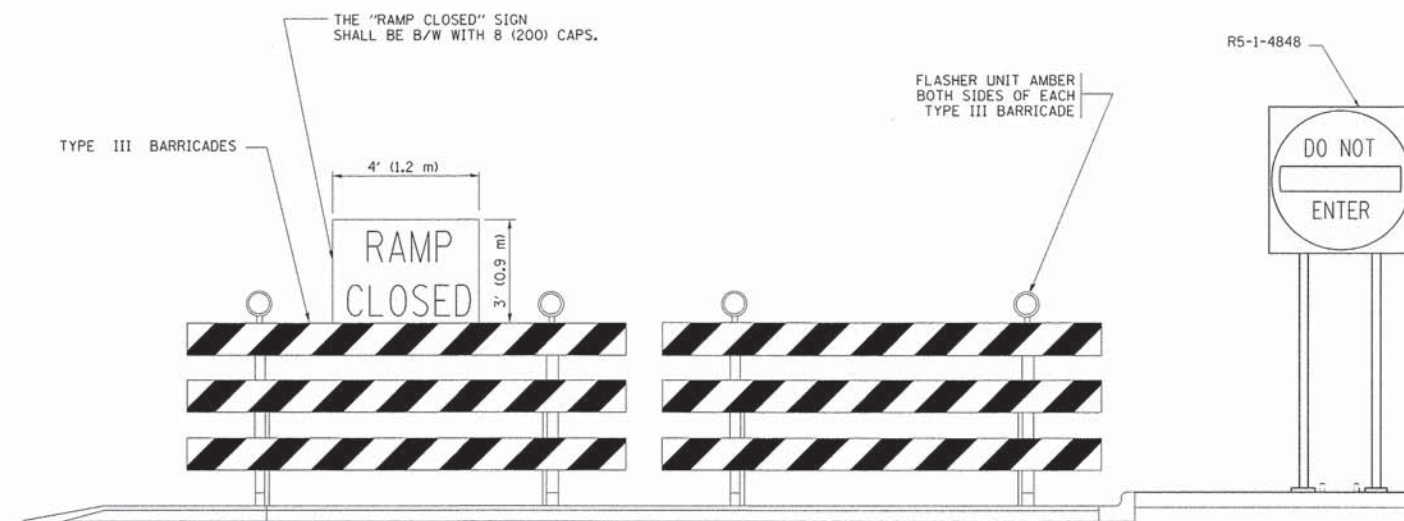
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

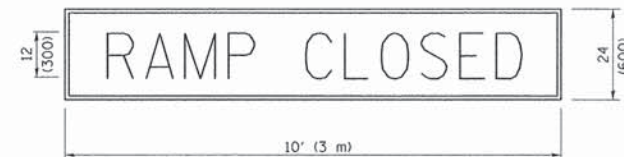
SYMBOLS

- ⊓ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

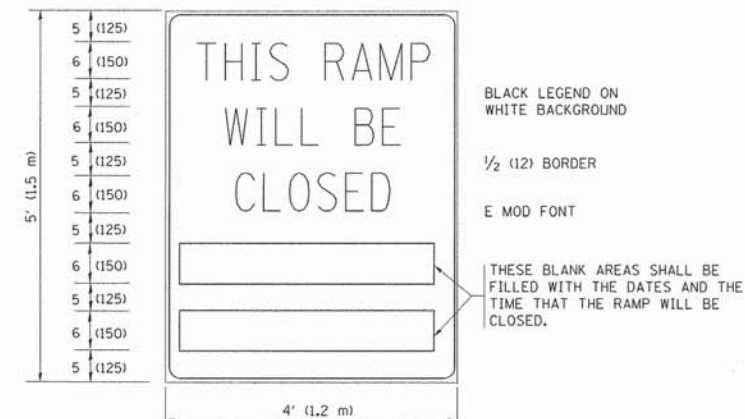
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

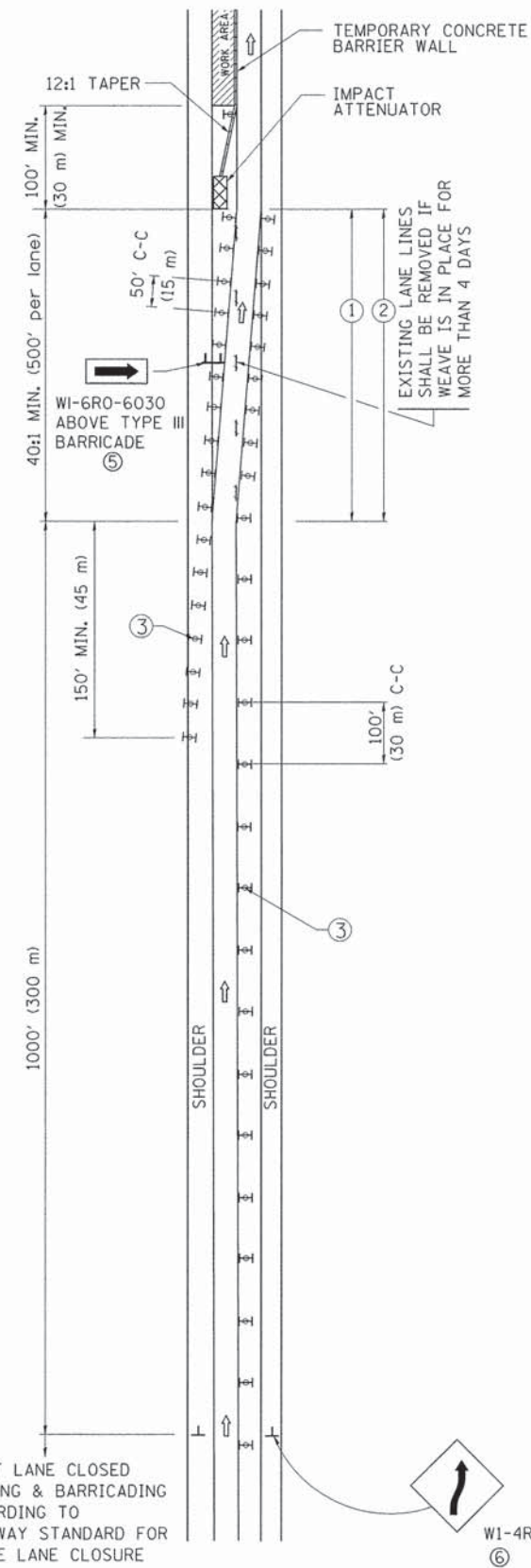
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

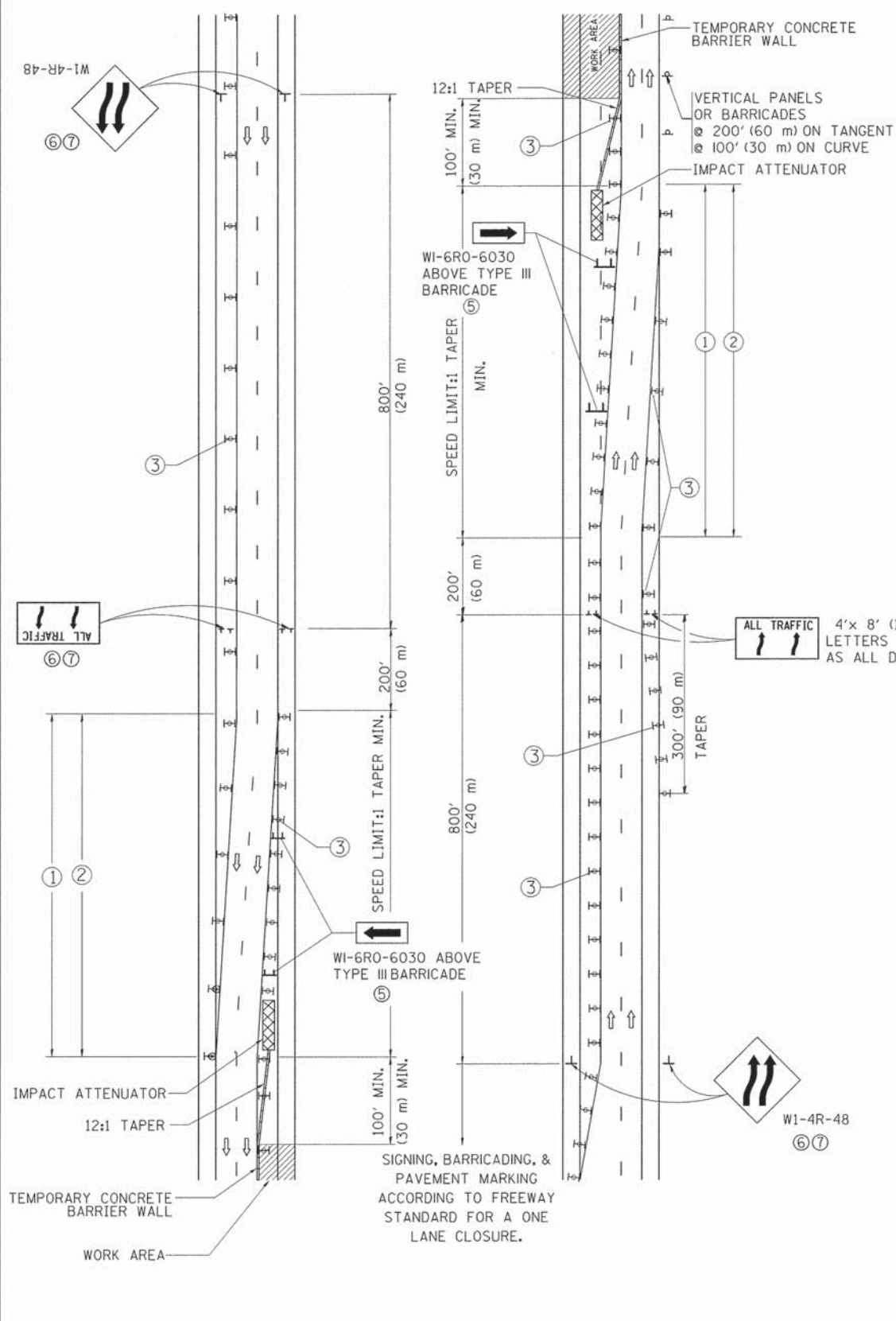
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

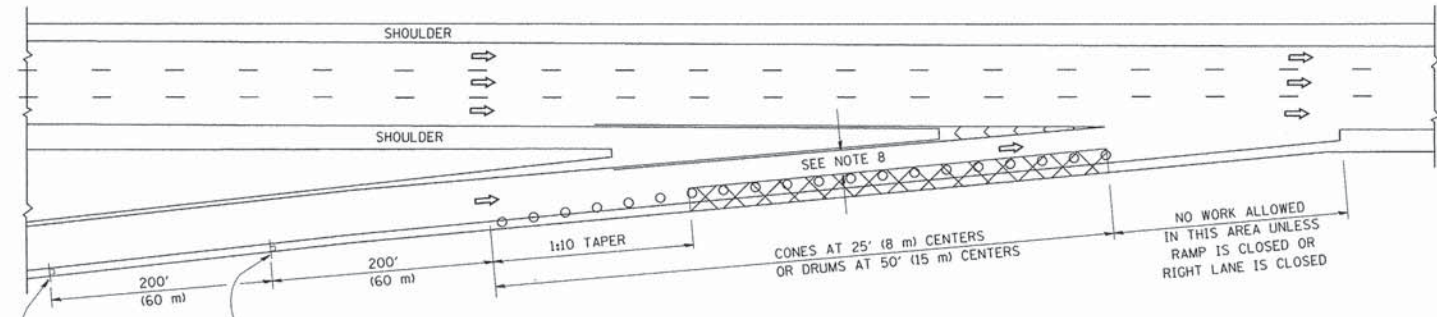
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwsdot\footemj\d0108315\ca09.sgn		DRAWN -	REVISED - SPB 01-07		330	06-00045-01-LS	COOK	12	05			
		PLOT SCALE = 50,000' / in.	REVISED - SPB 12-09		TC-09			CONTRACT NO. 63860				
		PLOT DATE = 7/1/2013	REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

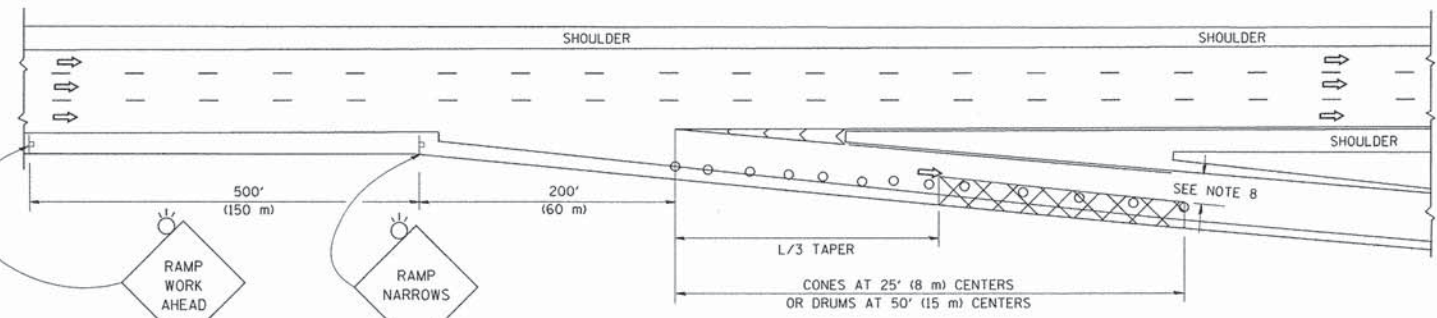
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

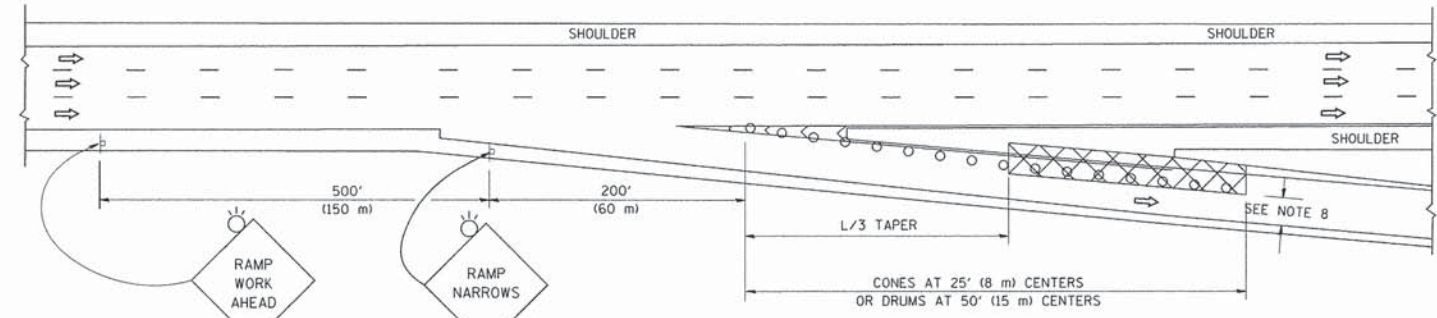
REFLECTIVE 6 (150) EDGE LINE ON LOWER SLOPE OF WALL (LEFT EDGE YELLOW, RIGHT EDGE WHITE)



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

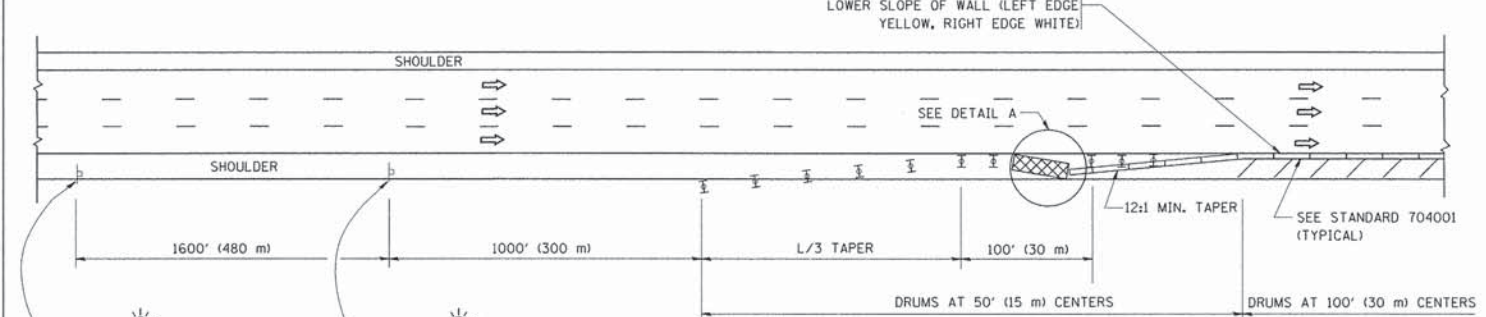
SYMBOLS

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

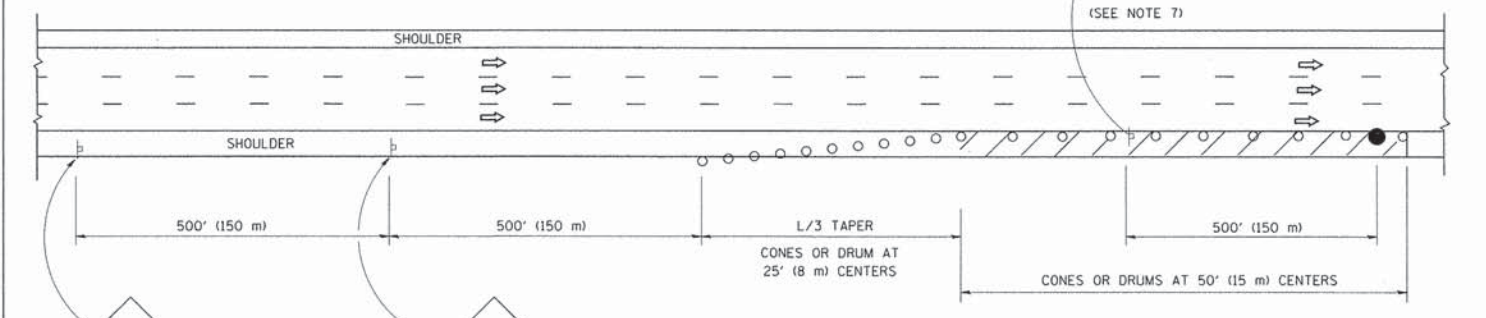
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

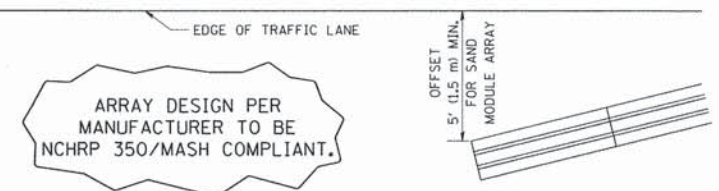
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH L=0.65(WXS) L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL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



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



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

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

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		330	06-00045-01-LS	COOK	12	06			
		CHECKED -	REVISED - S.P.B. 12-09		TC-17			CONTRACT NO. 63860				
		DATE - 11-96	REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

50 0 50 100
HORIZONTAL SCALE IN FEET (1"=50')



INTERSTATE 290
(EISENHOWER EXPRESSWAY)

1
9
BRIDGE FENCE RAILING W/
DECORATIVE METAL PANEL -
WEST PARAPET

PROJECT ENDING
STATION 67+72.00

MANNHEIM ROAD

PROJECT BEGINNING
STATION 64+72.00

2
9
BRIDGE FENCE RAILING W/
DECORATIVE METAL PANEL -
EAST PARAPET

RESIDENT ENGINEER TO PROVIDE
BENCHMARK AND CONTROL POINT
INFORMATION TO THE CONTRACTOR
AT THE TIME OF CONSTRUCTION.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF HILLSIDE
MANNHEIM ROAD STREETSCAPE
RAILING PLAN OVERVIEW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	07
CONTRACT NO. 63860				
ILLINOIS				

SCALE: AS SHOWN SHEET NO. 07 OF 12 SHEETS STA. 64+72.00 TO STA. 67+72.00

USER NAME =	DESIGNED -- RMMW	REVISED --
DRAWN -- MW	REVISOR --	REVISION --
CHECKED -- RM	DATE -- 5/03/2013	REVISION --
DATE -- 04/10/2013		

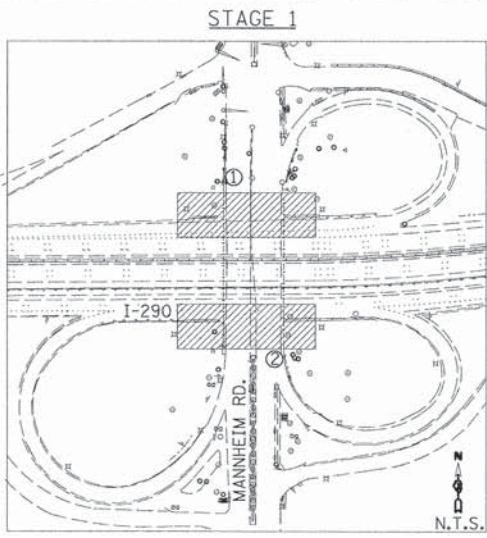
FILE NAME = \$FILEL\$.
LAYOUT
DRAWN
REVIEWED

PLAN LEGEND

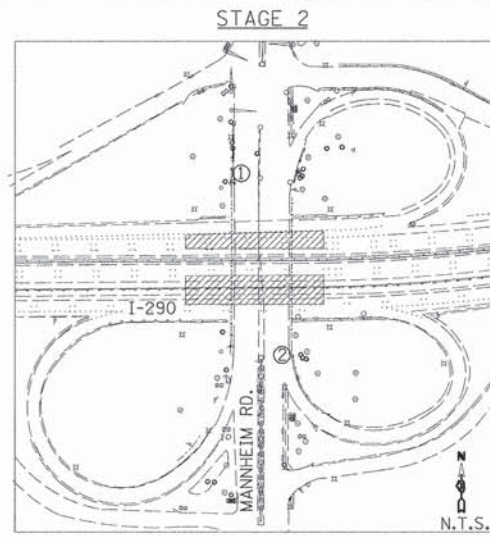
① SB OUTSIDE LANE CLOSURE ON MANNHEIM ROAD, 70102630
SB SIDEWALK CLOSURE, 70102640

② NB OUTSIDE LANE CLOSURE ON MANNHEIM ROAD, 70102630
NB SIDEWALK CLOSURE, 70102640

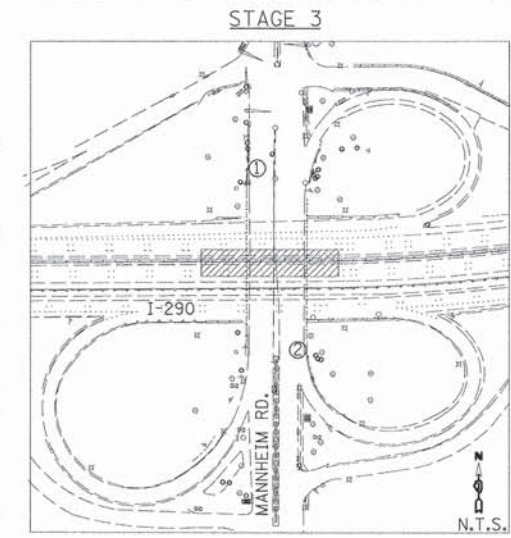
▨ WORK ZONE



- STAGE 1 NOTES:**
- MANNHEIM ROAD**
SB OUTSIDE LANE CLOSURE
SB SIDEWALK CLOSURE
NB OUTSIDE LANE CLOSURE
NB SIDEWALK CLOSURE
 - I-290 EXPRESSWAY**
WB OUTSIDE SHOULDER CLOSURE
WB ENTRANCE RAMP CLOSURE
WB PAVED GORE CLOSURE
 - CD ROAD**
OUTSIDE SHOULDER CLOSURE
EB CD LANE 2 CLOSURE
EB CD LANE 3 CLOSURE



- STAGE 2 NOTES:**
- MANNHEIM ROAD**
SB OUTSIDE LANE CLOSURE
SB SIDEWALK CLOSURE
NB OUTSIDE LANE CLOSURE
NB SIDEWALK CLOSURE
 - I-290 EXPRESSWAY**
WB PAVED GORE CLOSURE
WB LANE 2 CLOSURE
WB LANE 3 CLOSURE
EB OUTSIDE SHOULDER CLOSURE
EB LANE 3 CLOSURE
(SEE MAINTENANCE OF TRAFFIC STAGE 2 NOTES)
 - CD ROAD**
EB CD LANE 1 CLOSURE
INSIDE SHOULDER CLOSURE
(SEE MAINTENANCE OF TRAFFIC STAGE 2 NOTES)



- STAGE 3 NOTES:**
- MANNHEIM ROAD**
SB OUTSIDE LANE CLOSURE
SB SIDEWALK CLOSURE
NB OUTSIDE LANE CLOSURE
NB SIDEWALK CLOSURE
 - I-290 EXPRESSWAY**
WB LANE 1 CLOSURE
WB INSIDE SHOULDER CLOSURE
EB LANE 1 CLOSURE
EB LANE 2 CLOSURE
EB INSIDE SHOULDER CLOSURE

MAINTENANCE OF TRAFFIC NOTES:

NO WORK SHALL BE PERFORMED OVER LIVE TRAFFIC LANES.
NO DAYTIME CLOSURES SHALL BE PERMITTED. ONLY NIGHT TIME OPERATIONS SHALL BE PERMITTED.

ALL EXPRESSWAY LANE CLOSURES SHALL CONFORM TO THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) SPECIAL PROVISIONS AND APPLICABLE IDOT STANDARDS.

LANE AND SIDEWALK CLOSURES ON MANNHEIM ROAD SHALL CONFORM TO THE APPLICABLE HIGHWAY STANDARDS 701601 AND 701801.

ALL TRAFFIC CONTROL AND PROTECTION MUST BE REMOVED ON A NIGHTLY BASIS. NO MULTI-DAY CLOSURES SHALL BE PERMITTED ON THE PROJECT.

ALL LANE CLOSURES SHALL BE REMOVED DURING ADVERSE WEATHER CONDITIONS SUCH AS RAIN, SNOW, AND/OR FOG AND AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL PROMPTLY REMOVE THEIR LANE CLOSURE WHEN MAINTENANCE FORCES ARE OUT FOR SNOW AND ICE REMOVAL.

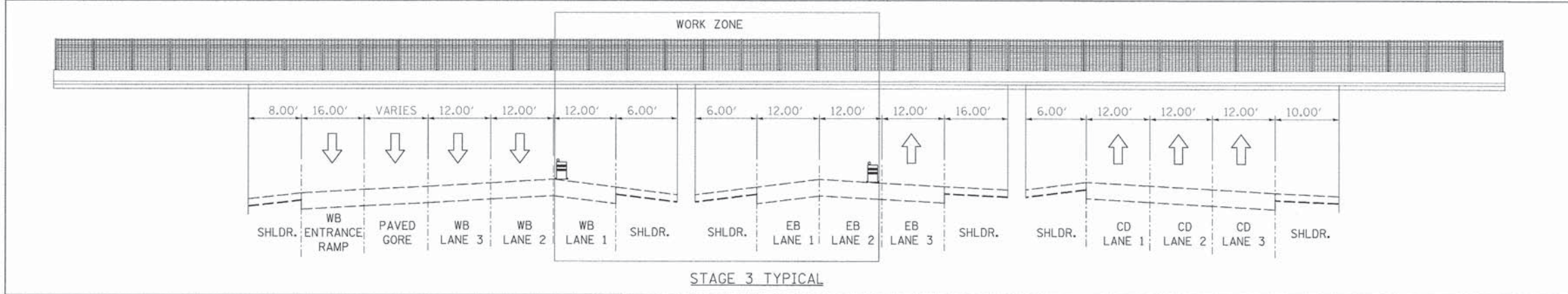
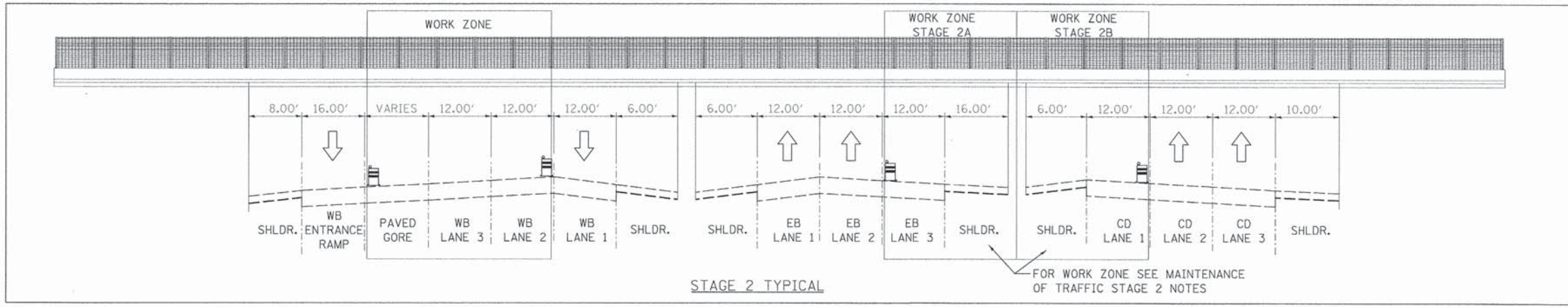
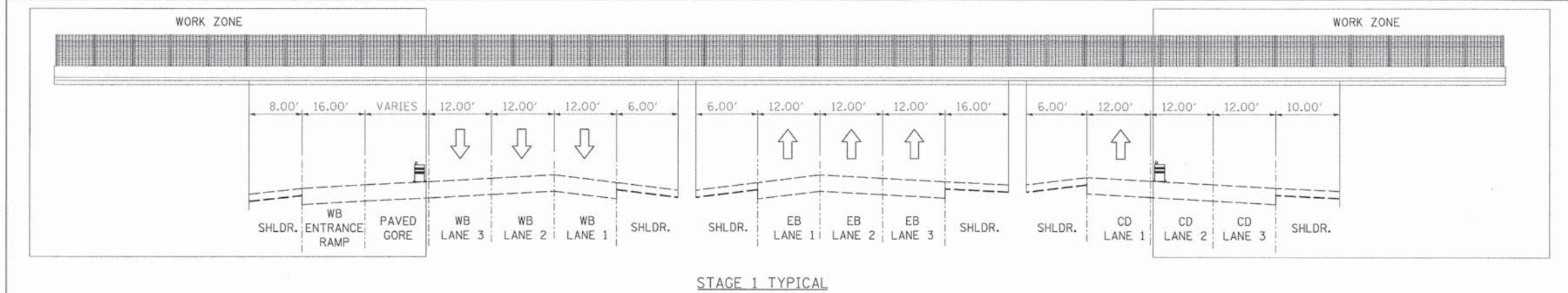
PRIVATE VEHICLES SHALL NOT BE PARKED IN THE WORK ZONE. CONTRACTOR'S EQUIPMENT AND/OR VEHICLES SHALL NOT BE PARKED ON THE SHOULDERS OR IN THE MEDIAN DURING NON-WORKING HOURS. THE PARKING OF EQUIPMENT AND/OR VEHICLES ON STATE RIGHT-OF-WAY WILL ONLY BE PERMITTED AT THE LOCATIONS APPROVED BY THE ENGINEER.

CONTRACTOR SHALL COORDINATE ALL EXPRESSWAY WORK/TRAFFIC CONTROL WITH DISTRICT 1 BUREAU OF TRAFFIC, EXPRESSWAYS SECTION PRIOR TO COMMENCING WORK.

STAGE 2 NOTES:

LANE CLOSURES WILL NOT BE ALLOWED IN THE EASTBOUND COLLECTOR-DISTRIBUTER LANES AND EASTBOUND I-290 MAINLINE LANES AT THE SAME TIME.

CONTRACTOR SHALL FINISH ALL WORK UNDER STAGE 2A BEFORE COMMENCING WORK UNDER STAGE 2B.



FILE NAME: c:\projects\2013\08\mtd\1110081\stg1\stg1.dgn
LAYOUT: DRAIN REVIEWED

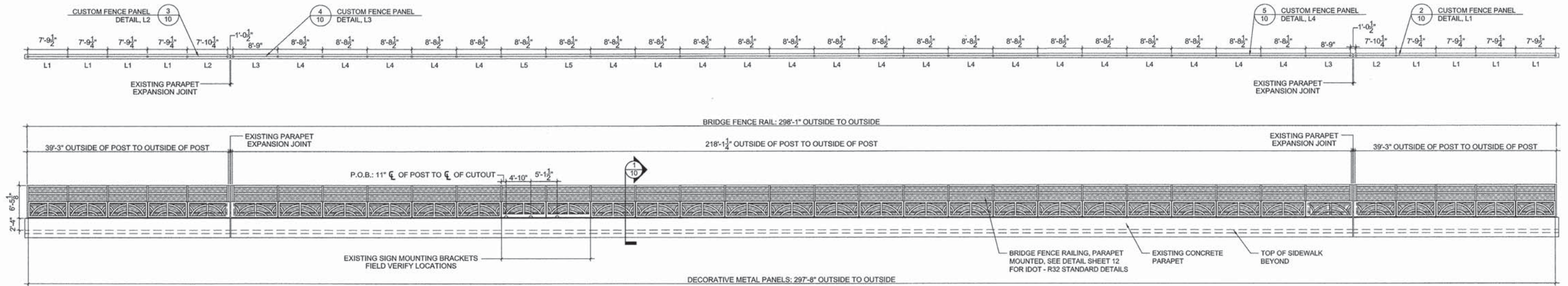
USER NAME: vs1101439	DESIGNED: DWP	REVISION:
DRAWN: DWP	CHECKED: MPV	DATE: 05/03/2013
PLOT SCALE: 400.0000' / in.		
PLOT DATE: 07/01/2013		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

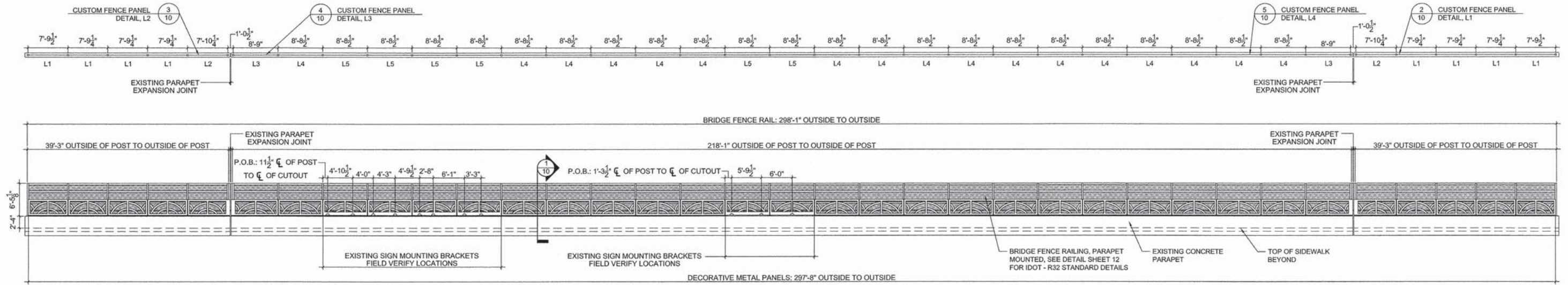
VILLAGE OF HILLSIDE
MANNHEIM ROAD STREETSCAPE & I-290 BRIDGE IMPROVEMENTS
MAINTENANCE OF TRAFFIC

SCALE: AS SHOWN SHEET NO. 08 OF 12 SHEETS STA. 64+72.00 TO STA. 67+72.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	08
CONTRACT NO. 63860			ILLINOIS	



1 BRIDGE FENCE RAILING W/ DECORATIVE METAL PANEL – WEST PARAPET (FACING EAST): PLAN AND ELEVATION
SCALE: 1"=10'-0"



2 BRIDGE FENCE RAILING W/ DECORATIVE METAL PANEL – EAST PARAPET (FACING WEST): PLAN AND ELEVATION
SCALE: 1"=10'-0"

- NOTES:
- ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM SURVEY DATA AND EXISTING PLANS FOR THE BRIDGE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES, AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY IMMEDIATELY. FOR CONSTRUCTION PURPOSES, CONTRACTOR MAY SET A TEMPORARY BENCHMARK AT THE TOP OF THE SOUTH ABUTMENT RETAINING WALL WITH ASSUMED ELEVATION 606.0.
 - ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF BRIDGE FENCE RAILING POSTS, FINISH GRADE, TOP OF WALL, TOP OF FENCE, OR CENTER LINE OF CUTOUTS UNLESS OTHERWISE NOTED.
 - SUBMIT SHOP DRAWINGS FOR BRIDGE FENCE RAILING, DECORATIVE PANEL, AND ALL ASSOCIATED CONNECTIONS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
 - CAREFULLY REMOVE AND SALVAGE ALL EXISTING BRIDGE RAIL AND SPLICES. DELIVER ALL COMPONENTS TO THE IDOT DISTRICT BRIDGE MAINTENANCE YARD, LOCATED AT 1101 BIESTERFIELD RD., ELK GROVE, IL 60007. DELIVERY SHALL BE BETWEEN THE HOURS OF 8AM AND 2PM. CONTRACTOR SHALL BE RESPONSIBLE FOR LOADING AND UNLOADING OF MATERIALS. CONTACT MR. SHAKER ASFOUR A MINIMUM OF 24 HOURS IN ADVANCE OF MATERIAL DELIVERY.

MANNHEIM STREETSCAPE			
PAY ITEMS			
CODE	NAME	UNIT	QUANTITY
50104000	BRIDGE RAIL REMOVAL	LF	596'
X5091730	BRIDGE FENCE RAILING (SPECIAL)	LF	596'

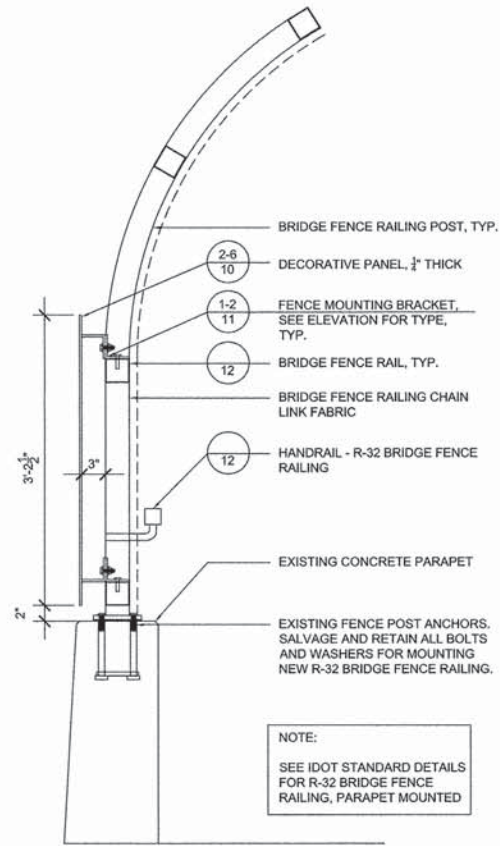
FILE NAME = \$FILEL\$
LAYOUT
DRAWN
REVIEWED

USER NAME =	DESIGNED -- RM/MW	REVISED --
DRAWN -- MW	REVISIONS --	
PLOT SCALE =	CHECKED -- RM	REVISED --
PLOT DATE = 04/10/2013	DATE -- 5/03/2013	REVISED --

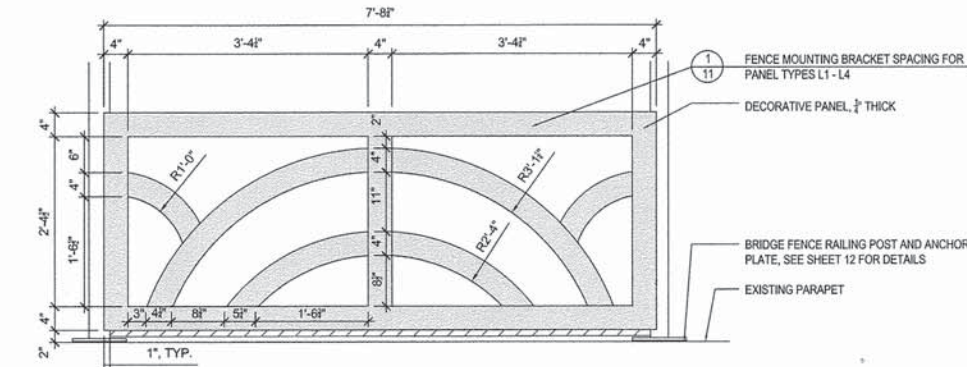
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF HILLSIDE
MANNHEIM ROAD STREETSCAPE
RAILING DETAILS
SCALE: AS SHOWN SHEET NO. 09 OF 12 SHEETS STA. 64+72.00 TO STA. 67+72.00

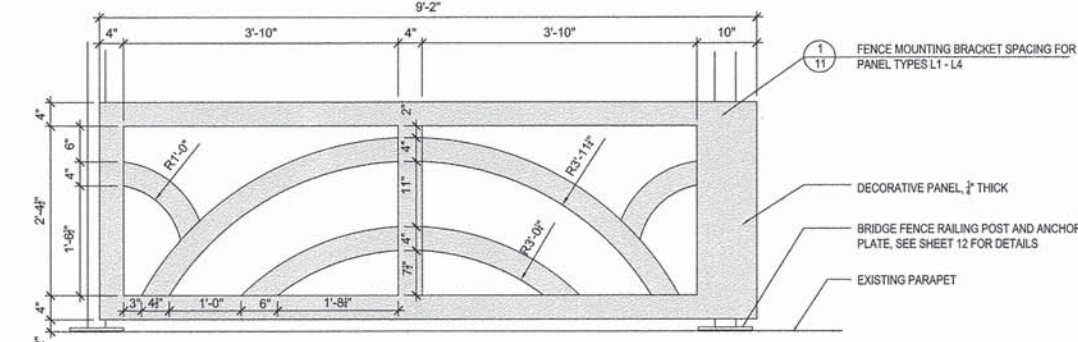
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	09
			CONTRACT NO. 63860	
ILLINOIS				



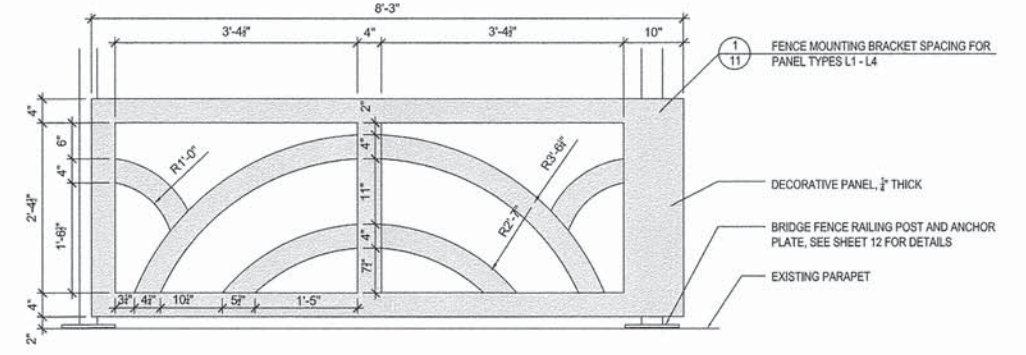
1 FENCE AND PANEL SECTION
 SCALE: 1"=1'-0"



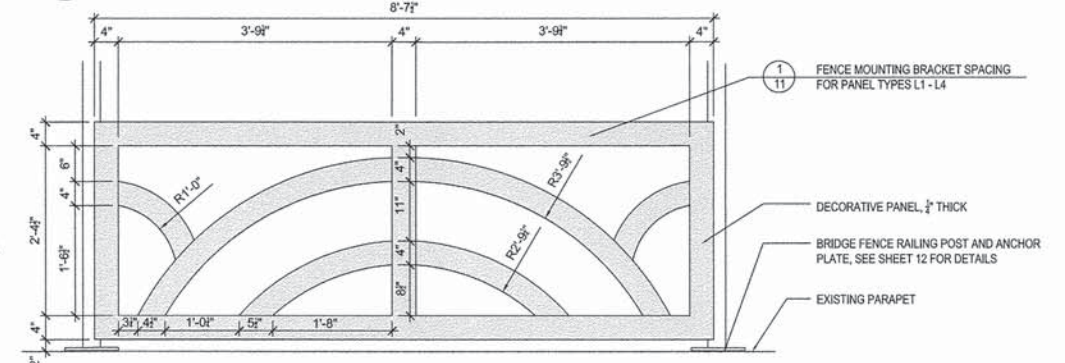
2 CUSTOM FENCE PANEL DETAIL L1 - QTY.: 16
 SCALE: 3/4"=1'-0"



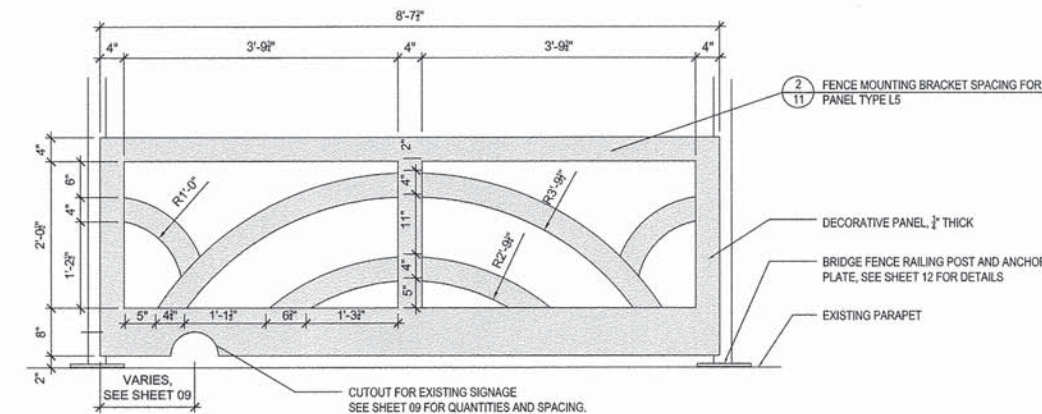
4 CUSTOM FENCE PANEL DETAIL L3 - QTY.: 4
 SCALE: 3/4"=1'-0"



3 CUSTOM FENCE PANEL DETAIL L2 - QTY.: 4
 SCALE: 3/4"=1'-0"



5 CUSTOM FENCE PANEL DETAIL L4 - QTY.: 38
 SCALE: 3/4"=1'-0"



6 CUSTOM FENCE PANEL DETAIL L5 - QTY.: 8
 SCALE: 3/4"=1'-0"

NOTES:

1. FIELD VERIFY ALL DIMENSIONS. REPORT ANY DISCREPANCIES TO RESIDENT ENGINEER.
2. SUBMIT SHOP DRAWINGS FOR BRIDGE FENCE RAILING, DECORATIVE PANEL, AND ALL ASSOCIATED CONNECTIONS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
3. ALL WELDED CONNECTIONS SHALL BE SHOP WELDED. USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE. OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP. REMOVE WELDING FLUX IMMEDIATELY. AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO NO ROUGHNESS SHOWS AFTER FINISHING.
4. ALL DECORATIVE PANEL FASTENERS SHALL BE STAINLESS STEEL.
5. ALL BRIDGE FENCE RAILING ASSEMBLIES AND DECORATIVE PANEL ASSEMBLIES, WITH THE EXCEPTION OF STAINLESS STEEL COMPONENTS, SHALL BE SHOP PAINTED, COLOR: BLACK.
6. IDOT R-32 BRIDGE FENCE RAILING CHAIN LINK FABRIC SHALL BE PVC COATED. ALL WIRE TIES SHALL BE GALVANIZED STEEL (UNPAINTED).

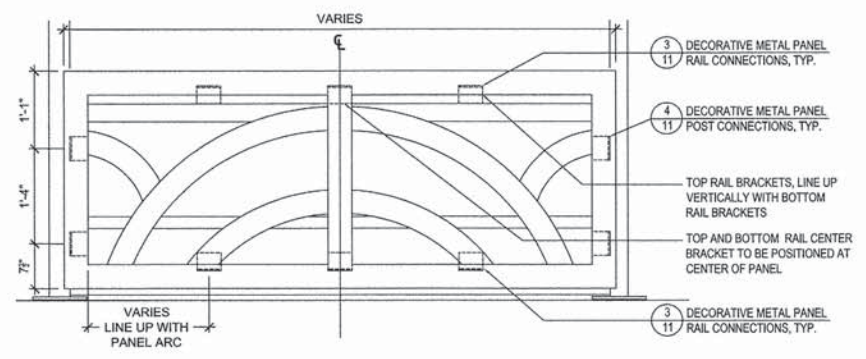
FILE NAME = \$FILEL\$.
 LAYOUT
 DRAWN
 REVIEWED

USER NAME =	DESIGNED -- RM/MW	REVISED --
DRAWN -- MW	REVISIONS --	
PLOT SCALE =	CHECKED -- RM	REVISED --
PLOT DATE = 04/10/2013	DATE -- 5/03/2013	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

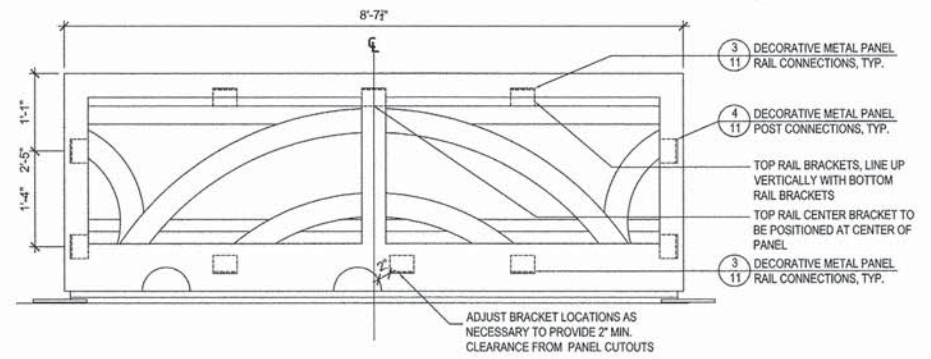
VILLAGE OF HILLSIDE MANNHEIM ROAD STREETSCAPE RAILING DETAILS		
SCALE: AS SHOWN	SHEET NO. 10 OF 12 SHEETS	STA. 64+72.00 TO STA. 67+72.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	10
			CONTRACT NO.	63860
ILLINOIS				



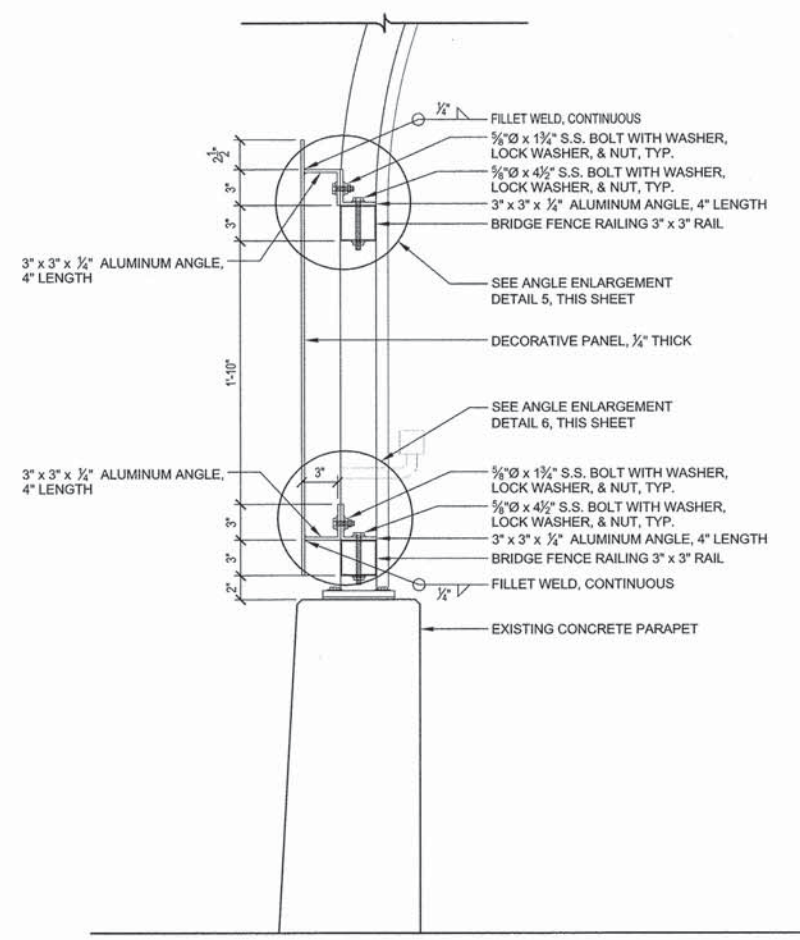
DECORATIVE METAL PANEL MOUNTING BRACKET SPACING - PANEL TYPES L1 - L4

1 SCALE: 3/4"=1'-0"



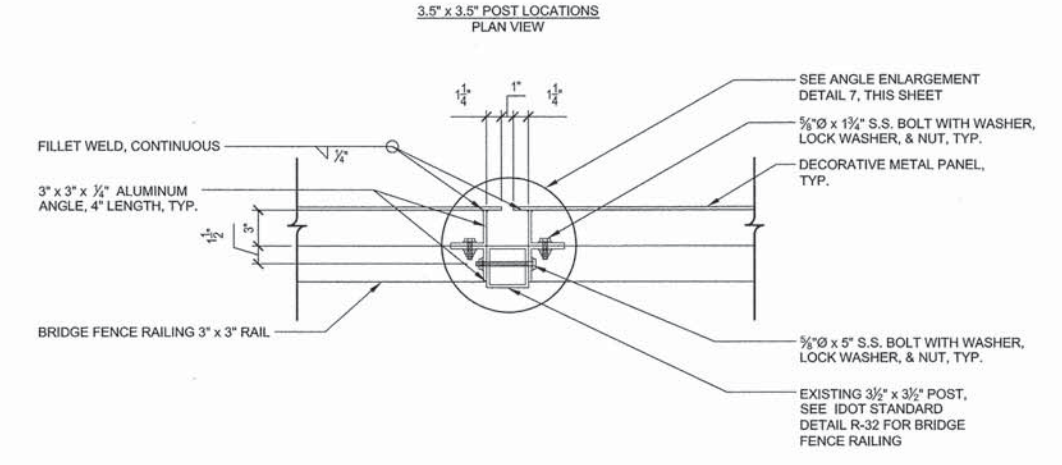
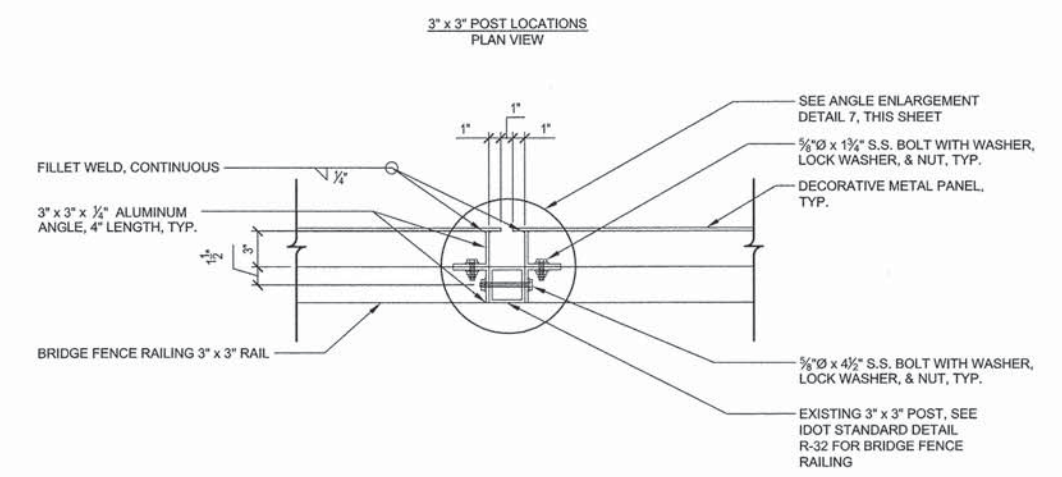
DECORATIVE METAL PANEL MOUNTING BRACKET SPACING - PANEL TYPE L5

2 SCALE: 3/4"=1'-0"



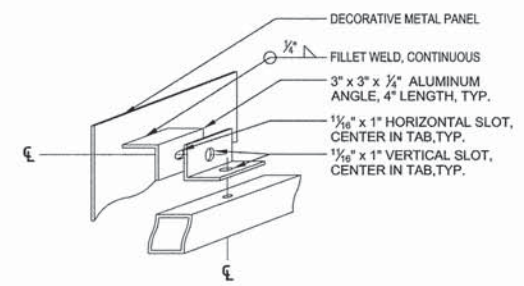
DECORATIVE METAL PANEL RAIL CONNECTIONS

3 SCALE: 1 1/2"=1'-0"



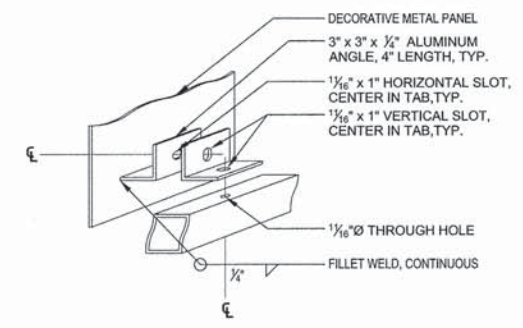
DECORATIVE METAL PANEL POST CONNECTIONS

4 SCALE: 1 1/2"=1'-0"



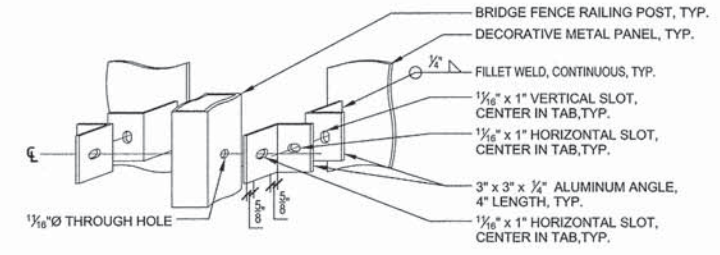
DECORATIVE METAL PANEL MOUNTING BRACKET ENLARGEMENT ISOMETRIC - TOP RAIL

5 SCALE: 1 1/2"=1'-0"



DECORATIVE METAL PANEL MOUNTING BRACKET ENLARGEMENT ISOMETRIC - BOTTOM RAIL

6 SCALE: 1 1/2"=1'-0"



DECORATIVE METAL PANEL MOUNTING BRACKET ENLARGEMENT ISOMETRIC - POST

7 SCALE: 1 1/2"=1'-0"

- NOTE:
1. PROVIDE SHOP DRAWINGS, SIGNED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER, FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 2. ALL WELDED CONNECTIONS SHALL BE SHOP WELDED. USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE. OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP. REMOVE WELDING FLUX IMMEDIATELY. AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO NO ROUGHNESS SHOWS AFTER FINISHING.
 3. ALL DECORATIVE PANEL FASTENERS SHALL BE STAINLESS STEEL.
 4. ALL BRIDGE FENCE RAILING ASSEMBLIES AND DECORATIVE PANEL ASSEMBLIES, WITH THE EXCEPTION OF STAINLESS STEEL COMPONENTS, SHALL BE SHOP PAINTED.
 5. IDOT R-32 BRIDGE FENCE RAILING CHAIN LINK FABRIC SHALL BE PVC COATED. ALL WIRE TIES SHALL BE GALVANIZED STEEL (UNPAINTED).

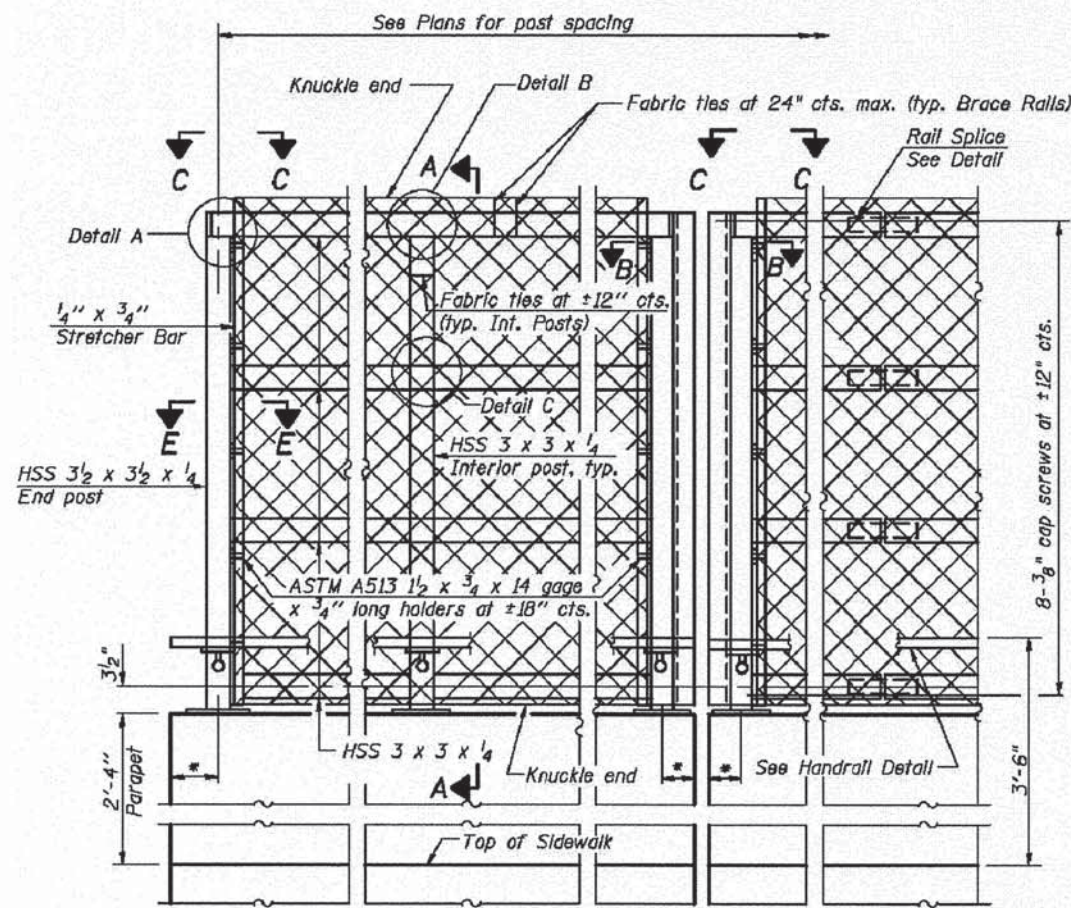
FILE NAME = \$FILEL\$.
LAYOUT
DRAWN
REVIEWED

USER NAME =	DESIGNED -- RM/MW	REVISED --
DRAWN -- MW	REVISED --	
PLOT SCALE =	CHECKED -- RM	REVISED --
PLOT DATE = 04/10/2013	DATE -- 5/03/2013	REVISED --

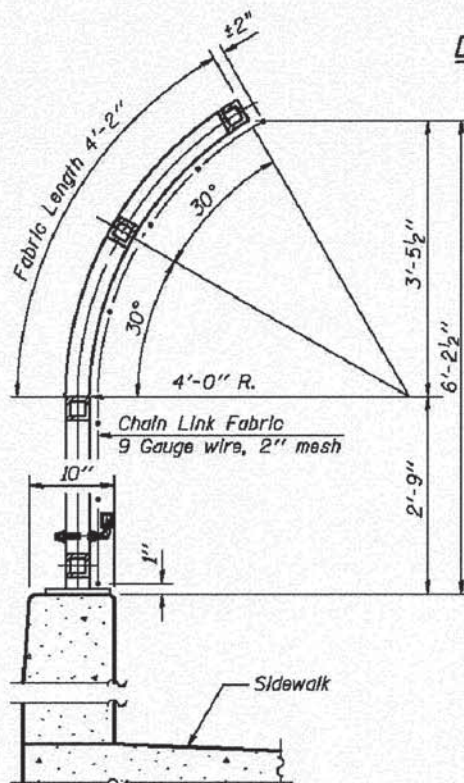
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF HILLSIDE
MANNHEIM ROAD STREETSCAPE
RAILING DETAILS
SCALE: AS SHOWN SHEET NO. 11 OF 12 SHEETS STA. 64+72.00 TO STA. 67+72.00

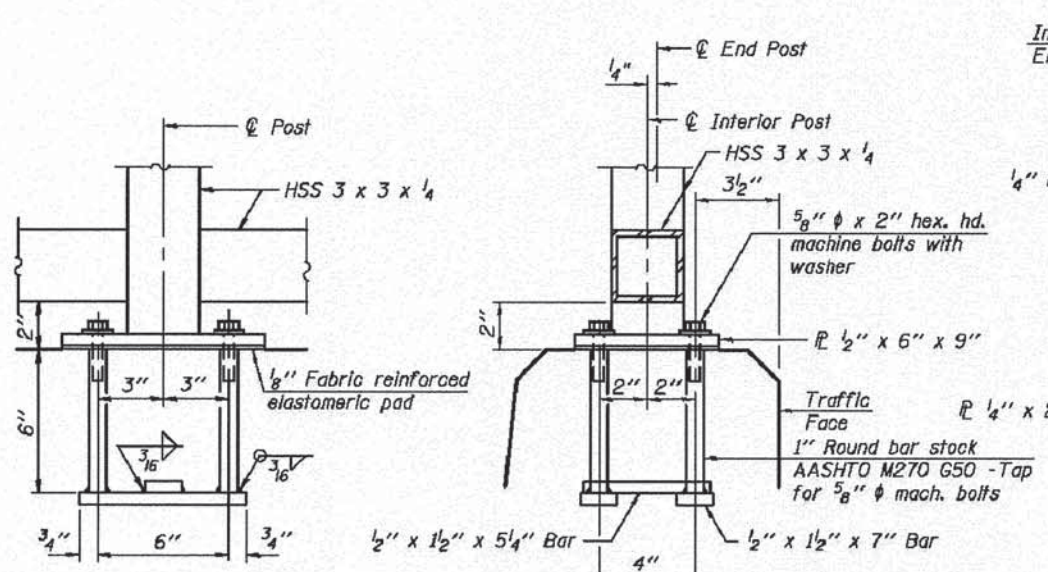
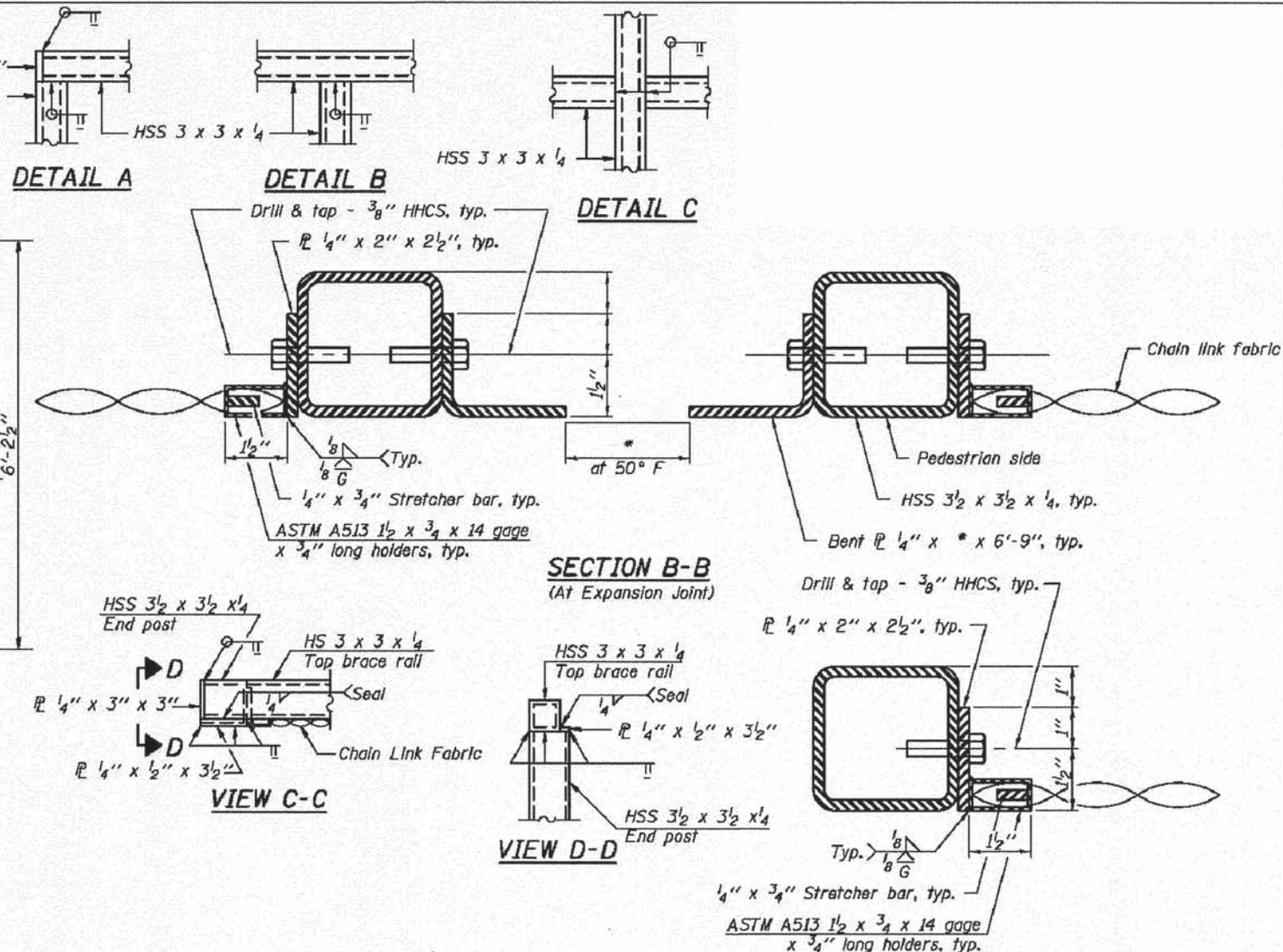
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	06-00045-01-LS	COOK	12	11
ILLINOIS			CONTRACT NO. 63860	



ELEVATION
(Inside Face)
* at 50° F

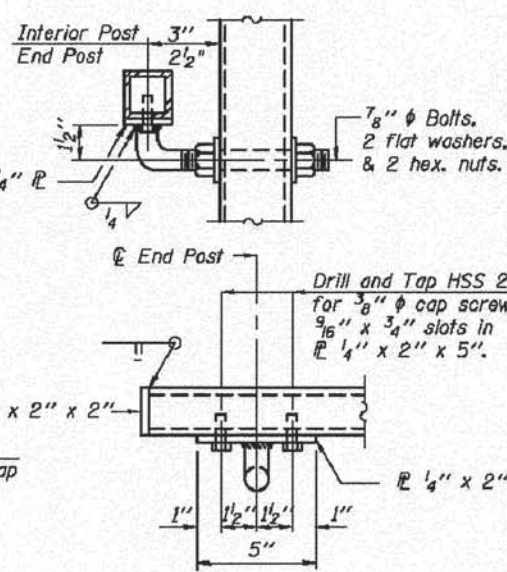


SECTION A-A

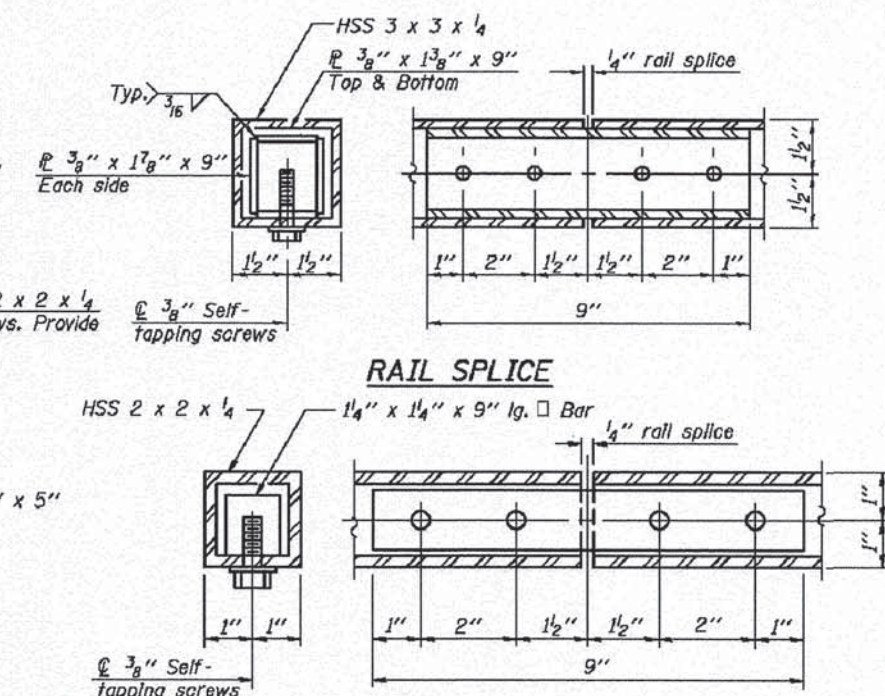


ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

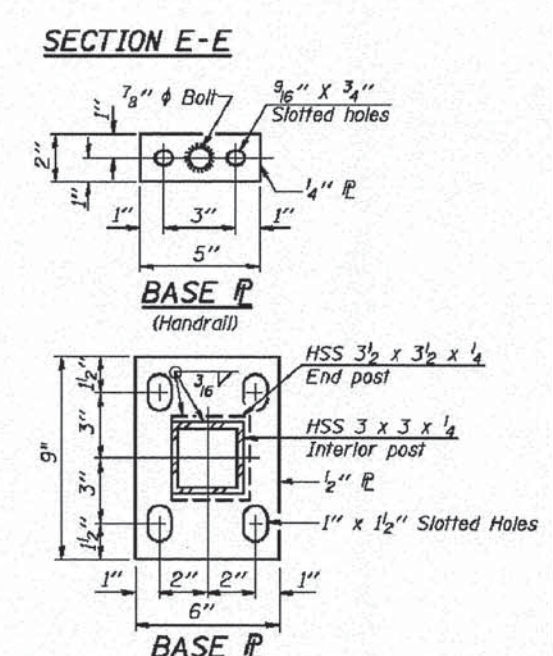


HANDRAIL DETAIL



RAIL SPLICE

HANDRAIL SPLICE



SECTION E-E

BASE PL
(Handrail)

BASE PL

R-32

7-1-10

*Variable - See Plans
(10'-0" Maximum Post Spacing)

USER NAME =	DESIGNED -- RMM/W	REVISED --
DRAWN -- MW	REVISED --	
PLOT SCALE =	CHECKED -- RM	REVISED --
PLOT DATE = 04/10/2013	DATE -- 5/03/2013	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF HILLSIDE
MANNHEIM ROAD STREETSCAPE
R-32 BRIDGE FENCE RAILING, PARAPET MOUNTED DETAILS
SCALE: AS SHOWN SHEET NO. 12 OF 12 SHEETS STA. 64+72.00 TO STA. 67+72.00

F.A.P. RTE. 330	SECTION 06-00045-01-LS	COUNTY COOK	TOTAL SHEETS 12	SHEET NO. 12
ILLINOIS			CONTRACT NO. 63860	

FILE NAME = \$FILEL\$
LAYOUT
DRAWN
REVIEWED