6-13-08 Letting, Item 170

F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I		COOK	11	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 60B29		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 350: IL 50/83 (CICERO AVE.)
OVER CAL SAG CHANNEL
SECTION: 3068 B–I
BRIDGE REPAIRS
COOK COUNTY
C–91–319–06

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE VILLAGE OF ALSIP

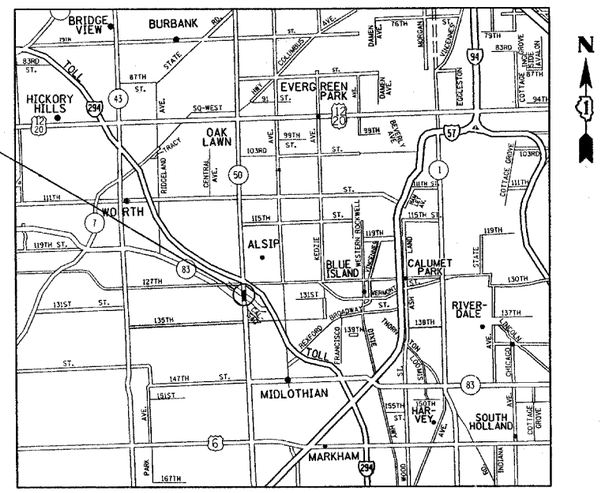
TRAFFIC DATA

2007 ADT = 42,400
SPEED LIMIT = 35 MPH

LOCATION OF IMPROVEMENT
SN 016–0421

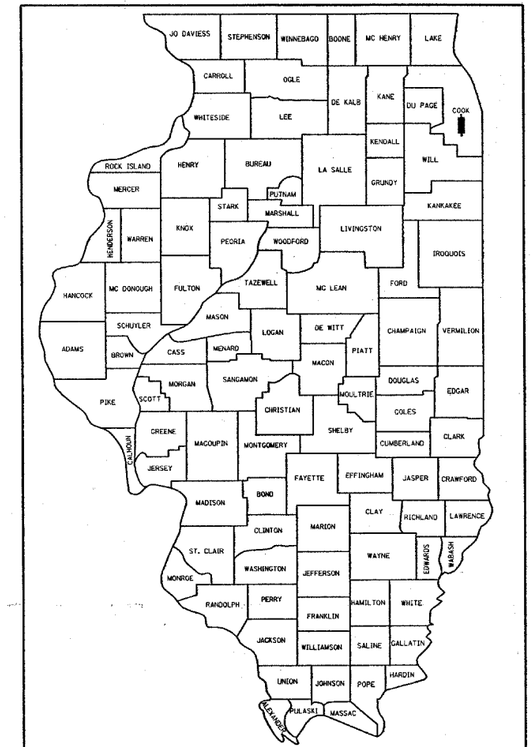
T 37 N

R 13 E



WORTH TOWNSHIP

D-91-319-06



LOCATION OF SECTION INDICATED THUS: –■–

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 31, 2008
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 9, 2008
Eric E. Harm P.E.
Interim ENGINEER OF DESIGN AND ENVIRONMENT
May 9, 2008
Christine M. Reed P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

PROJECT ENGINEER: BOB BORO (847) 705–4178
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60B29

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701606-05	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901	TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ALSIP.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS AREA TRAFFIC FIELD ENGINEER AT (847) 715-8422 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

ALL DAMAGES TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT 847-705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM BRIDGE INSPECTORS

DO NOT SCALE PLAN FOR CONSTRUCTION DIMENSIONS

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINNG RESIDENTIAL AREAS

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL ONLY SUPPORT THE TRANSVERE FLOOR BEAM ON ONE TEMPORARY SHORING TOWER AT A TIME. THE OTHER SUPPORT SHALL BE AN EXISTING OR PERMANENT BEARING. THE BEARINGS/ PEDESTALS ON THE EAST SIDE OF THE BRIDGE SHALL BE REPLACE FIRST.

THE CONTRACTOR IS, HEREBY, INFORMED THE THE BRIDGE HAS EXISTING ELECTRICAL CONDUITS FOR NAVIGATIONAL AND ROADWAY LIGHTS. CARE SHOULD BE TAKE NOT TO DAMAGE CONDUITS. ANY DAMAGE TO THESE CIRCUITS RESULTING FROM THE WORK RELATED TO THIS PROJECT SHALL BE REPAIRED AT NO ADDITIONAL COST TO IDOT

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		DRAWN -	REVISED -
	PLOT SCALE = 50.00 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 4/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	COOK	11	2
		CONTRACT NO. 60B29		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B29

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	COOK	11	3
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE SFTY-2A					
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	40	40					
50102400	CONCRETE REMOVAL	CU YD	1.4	1.4					
50300225	CONCRETE STRUCTURES	CU YD	2.1	2.1					
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1030	1030					
50500715	JACK AND REMOVE EXISTING BEARINGS	EACH	4	4					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	440	440					
52100520	ANCHOR BOLTS, 1"	EACH	16	16					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4					
67100100	MOBILIZATION	L SUM	1	1					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16	16					
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	48	48					
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1	1					
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4	4					
X0325619	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 300K	EACH	4	4					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					

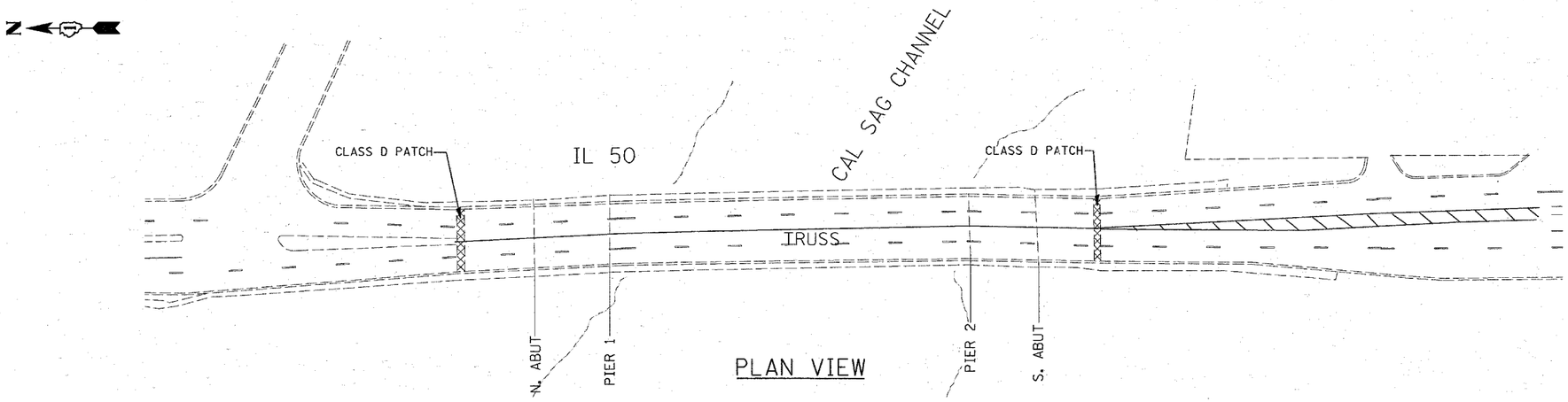
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

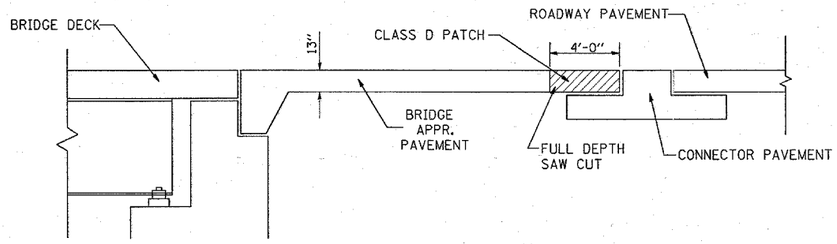
SUMMARY OF QUANTITIES

PLOT DATE: 4/4/2008

4/4/2008
c:\projects\d1319068\d1319060q.dgn



PLAN VIEW



CLASS D PATCH DETAIL

		HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
		MIXTURE TYPE	**AC TYPE**	**AIR VOIDS**
CLASS D PATCH	TOP 2"	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL 9.5mm)	SBS/SBR PG 70-22	4% @ 90 GYR
	BOTT. 11"	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	SBS/SBR PG 70-22	4% @ 90 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ.YD/IN

Rev.

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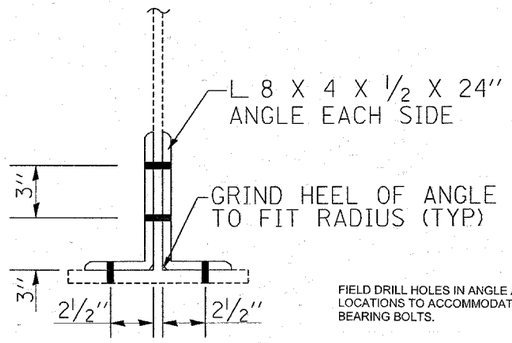
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

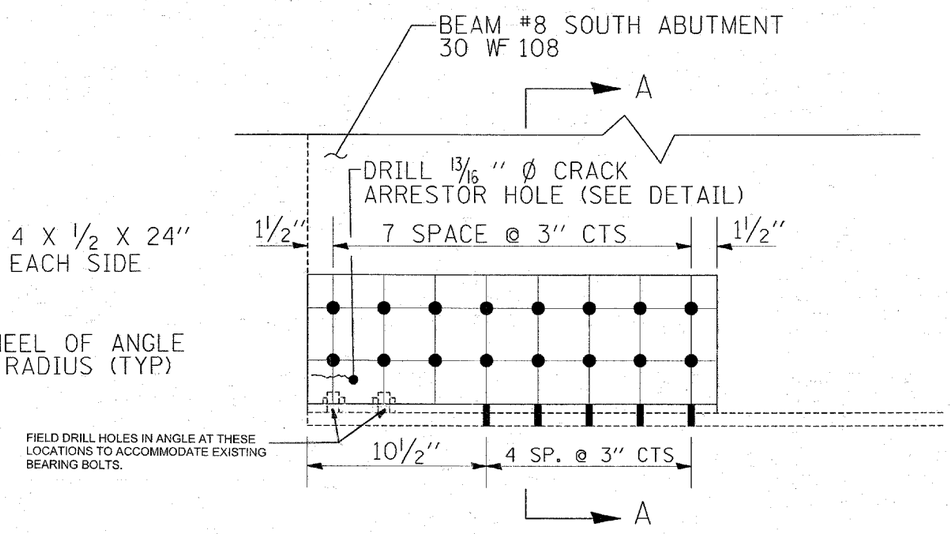
CLASS D PATCH

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

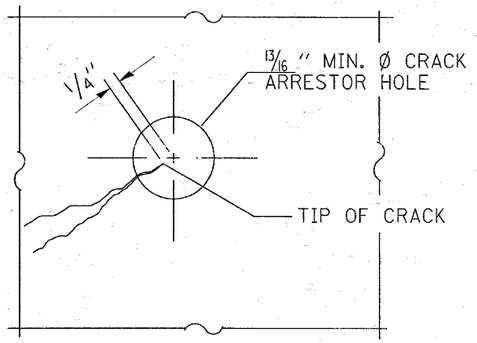
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	COOK	11	4
		CONTRACT NO. 60B29		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SECTION A-A



BEAM WEB REPAIR DETAIL



CRACK ARRESTOR HOLE DETAIL

Note:

Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill 13/16 " min. Ø Crack Arrestor hole at the crack tip. After Crack Arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost shall be included in the cost of "Furnishing ang Erecting Structural Steel".

Bridge General Notes

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Bolts 3/4" Ø, open holes 13/16 " Ø, unless otherwise noted.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

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

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

Joint plates and attached bars shall be shop painted with the inorganic zinc rich primer. No field paint required.

TOTAL BILL OF MATERIALS

Description	Unit	Quantity
Concrete Removal	Cu Yd	1.4
Concrete Structures	Cu Yd	2.1
Furnishing and Erecting Structural Steel	Pound	1030
Jack and Remove Existing Bearings	Each	4
Reinforcement Bars, Epoxy Coated	Pound	440
Anchor Bolts, 1"	Each	16
High Load Multi-Rotational Bearings, Fixed - 300 kip	Each	4
Structural Repair of Concrete ≤ 5"	Sq Ft	1
Temporary Shoring and Cribbing	Each	4

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIRS
SN 016-0421

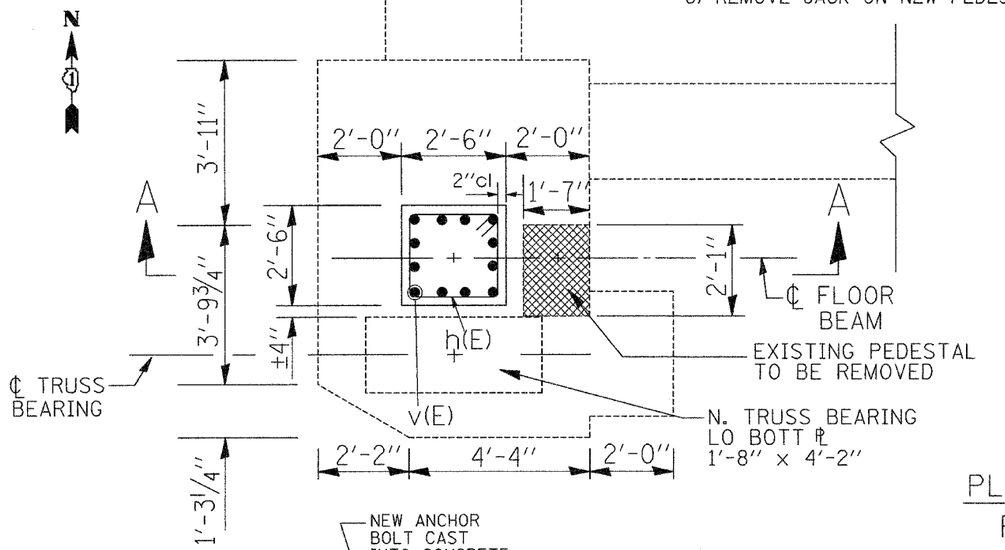
SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	COOK	11	5
		CONTRACT NO. 60B29		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

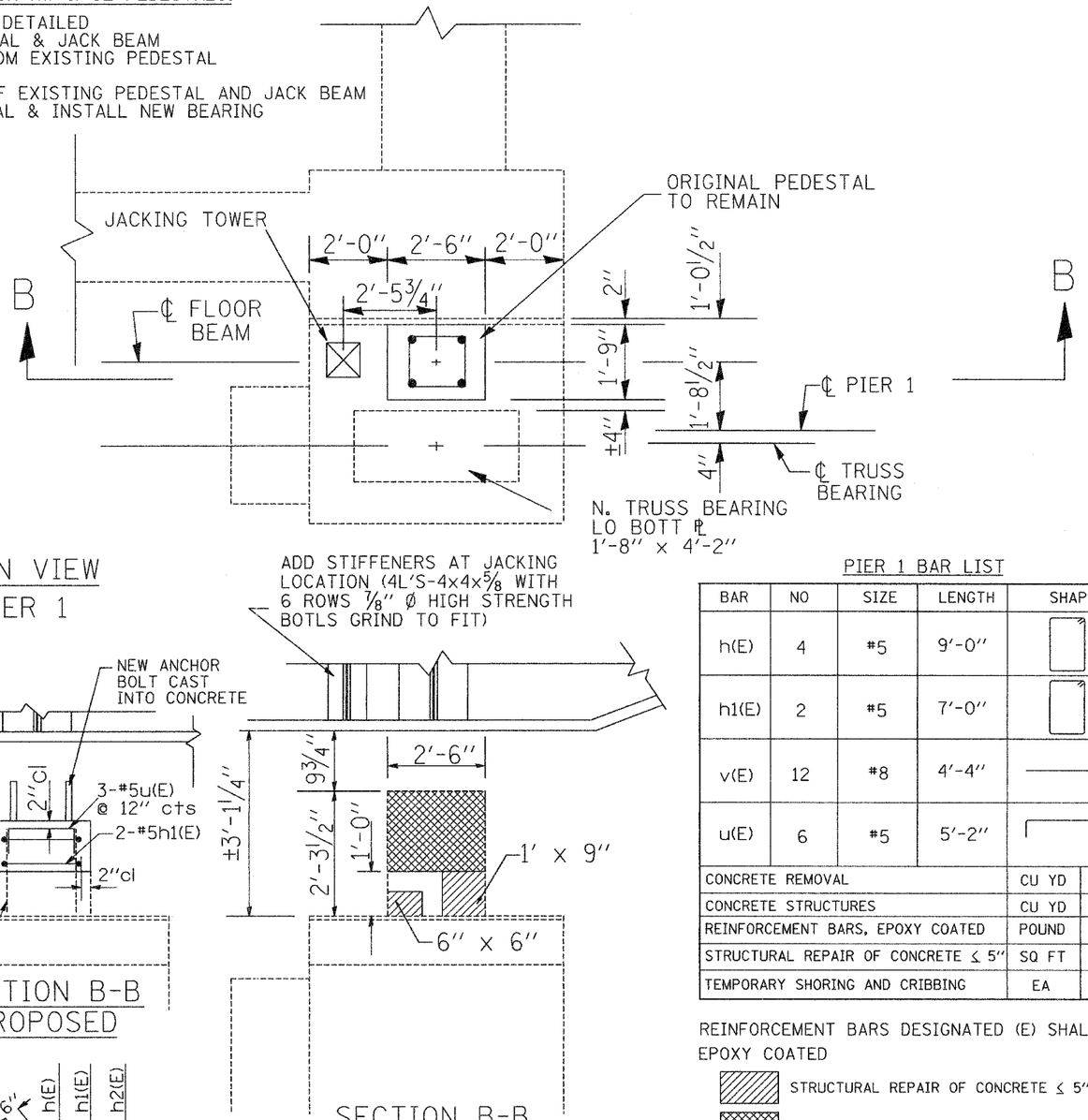
TO NORTH ABUTMENT

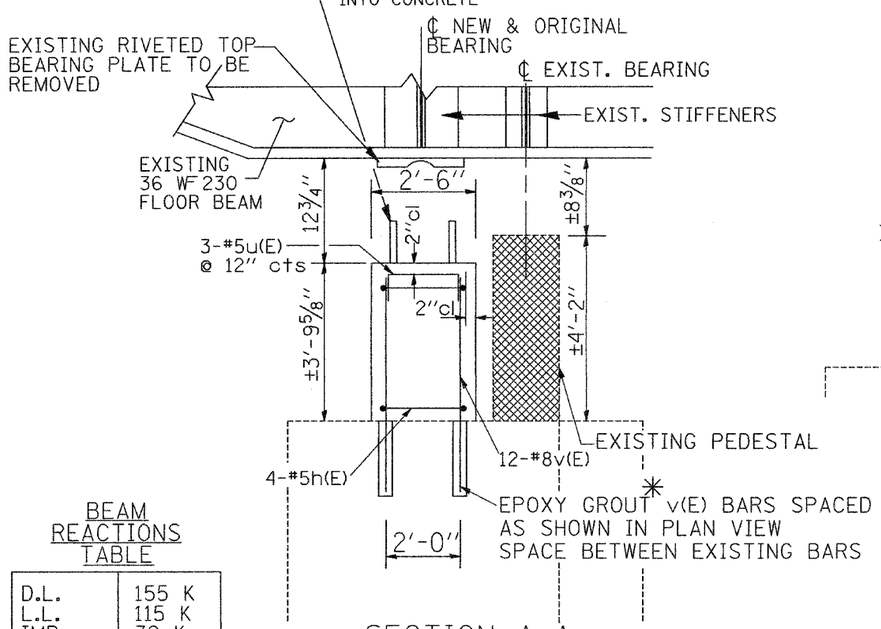
SEQUENCE OF CONSTRUCTION NW & SE PEDESTALS:

1) CONSTRUCT NEW PEDESTAL AS DETAILED
2) INSTALL JACK ON NEW PEDESTAL & JACK BEAM
3) REMOVE EXISTING BEARING FROM EXISTING PEDESTAL
4) REMOVE EXISTING PEDESTAL
5) INSTALL JACK AT LOCATION OF EXISTING PEDESTAL AND JACK BEAM
6) REMOVE JACK ON NEW PEDESTAL & INSTALL NEW BEARING



PLAN VIEW
PIER 1





SECTION A-A

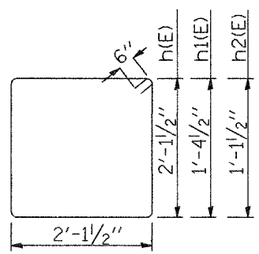
SECTION B-B
PROPOSED

SECTION B-B
(EXISTING SHOWING REMOVAL)

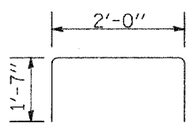
BEAM REACTIONS TABLE

D.L.	155 K
L.L.	115 K
IMP	32 K
TOTAL	302 K

MIN. JACKING CAPACITY = 170 TONS



BAR h(E), h1(E) & h2(E)



BAR u(E)

PIER 1 BAR LIST

BAR	NO	SIZE	LENGTH	SHAPE
h(E)	4	#5	9'-0"	
h1(E)	2	#5	7'-0"	
v(E)	12	#8	4'-4"	
u(E)	6	#5	5'-2"	

CONCRETE REMOVAL	CU YD	0.7
CONCRETE STRUCTURES	CU YD	1.1
REINFORCEMENT BARS, EPOXY COATED	POUND	220
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ FT	1
TEMPORARY SHORING AND CRIBBING	EA	2

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

STRUCTURAL REPAIR OF CONCRETE ≤ 5"

CONCRETE REMOVAL

▲ EXIST. REINFORCEMENT TO BE CLEANED STRAIGHTNED & INCORPORATED INTO NEW CONSTRUCTION. CUT TO MAINTAIN 2" CLEARANCE

✳ DRILL & EPOXY GROUT 9" MINIMUM INTO THE EXISTING CONCRETE ACCORDING TO ART. 584 OF THE STD. SPECS.

ALL PROPOSED PEDESTAL HEIGHTS TO BE FIELD VERIFIED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 REPAIRS
SN 016-0421

SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	COOK	11	6
		CONTRACT NO. 60B29		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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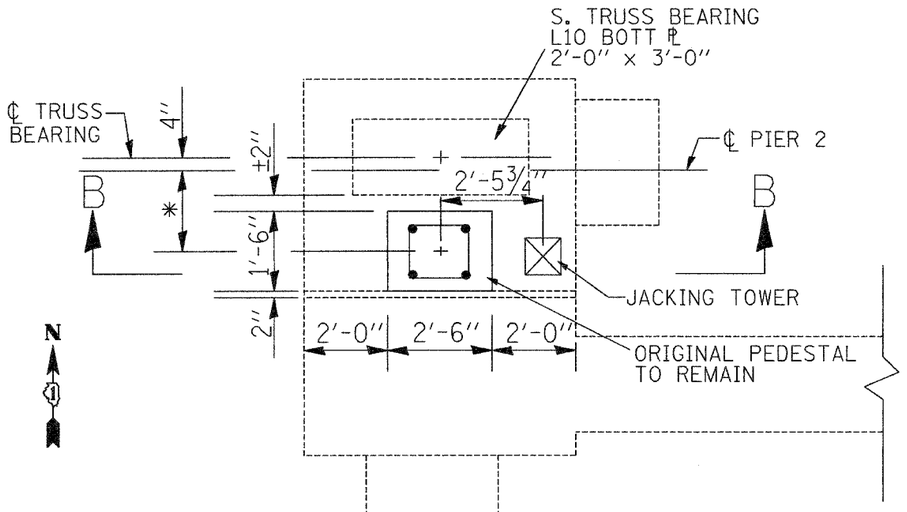
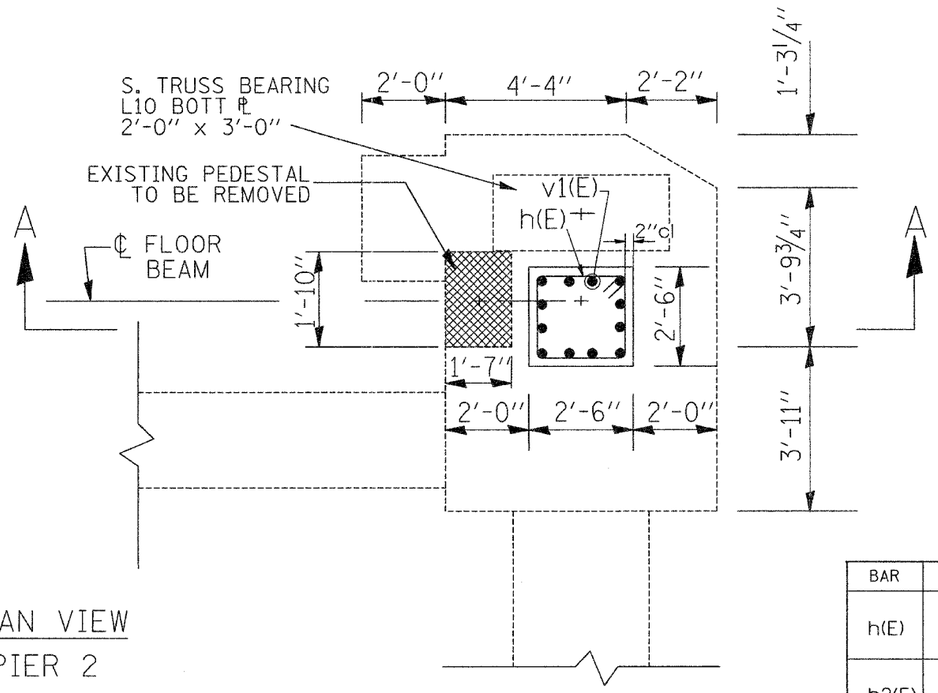
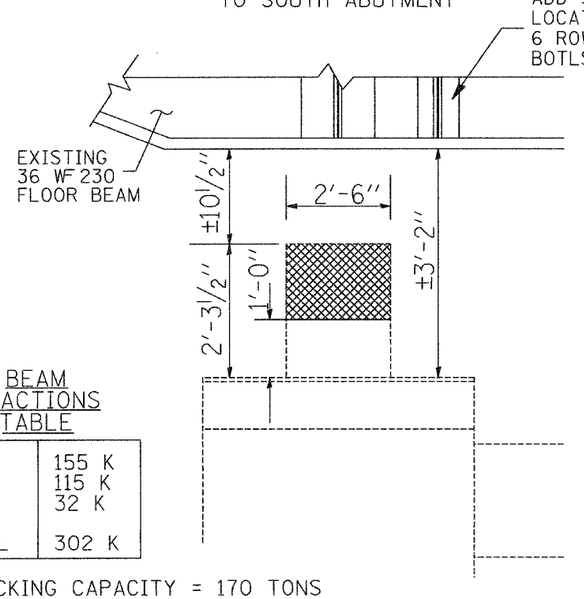


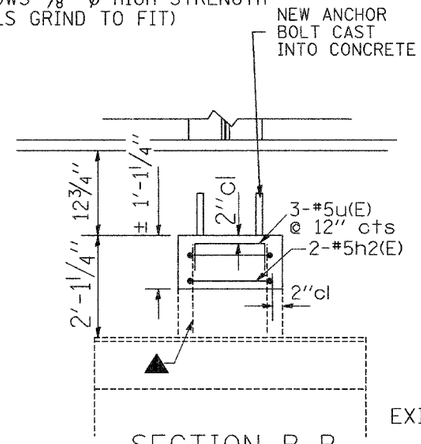
*±1'-7" @ W PEDESTAL
*±1'-6" @ E PEDESTAL

TO SOUTH ABUTMENT

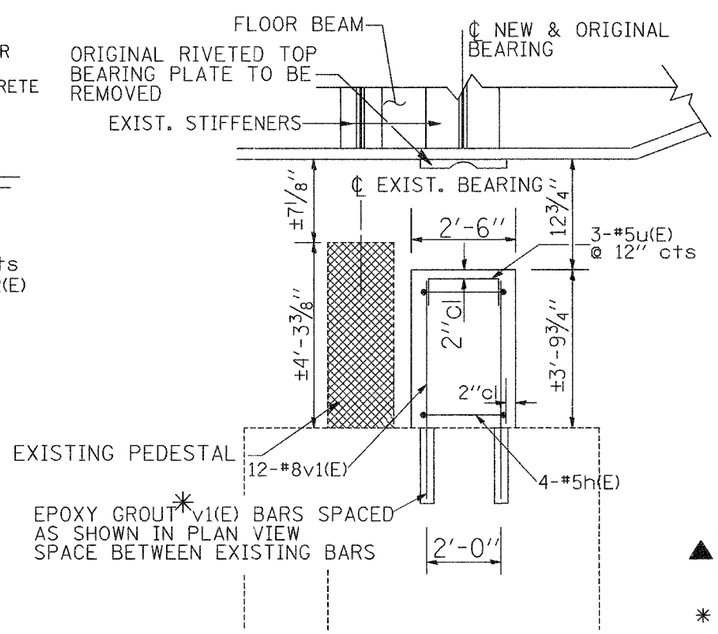
PLAN VIEW
PIER 2







SECTION B-B
PROPOSED



SECTION A-A

BEAM REACTIONS TABLE

D.L.	155 K
L.L.	115 K
IMP	32 K
TOTAL	302 K

MIN. JACKING CAPACITY = 170 TONS

SECTION B-B
(EXISTING SHOWING REMOVAL)

PIER 2 BAR LIST

BAR	NO	SIZE	LENGTH	SHAPE
h(E)	4	#5	9'-0"	
h2(E)	2	#5	6'-6"	
v1(E)	12	#8	4'-4"	
u(E)	6	#5	5'-2"	

CONCRETE REMOVAL	CU YD	0.7
CONCRETE STRUCTURES	CU YD	1.0
REINFORCEMENT BARS, EPOXY COATED	POUND	220
TEMPORARY SHORING AND CRIBBING	EA	2

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

FOR REBAR DETAILS SEE SHEET 6 OF 11

CONCRETE REMOVAL

▲ EXIST. REINFORCEMENT TO BE CLEANED STRAIGHTNED & INCORPORATED INTO NEW CONSTRUCTION. CUT TO MAINTAIN 2" CLEARANCE

* DRILL & EPOXY GROUT 9" MINIMUM INTO THE EXISTING CONCRETE ACCORDING TO ART. 584 OF THE STD. SPECS.

ALL PROPOSED PEDESTAL HEIGHTS TO BE FIELD VERIFIED

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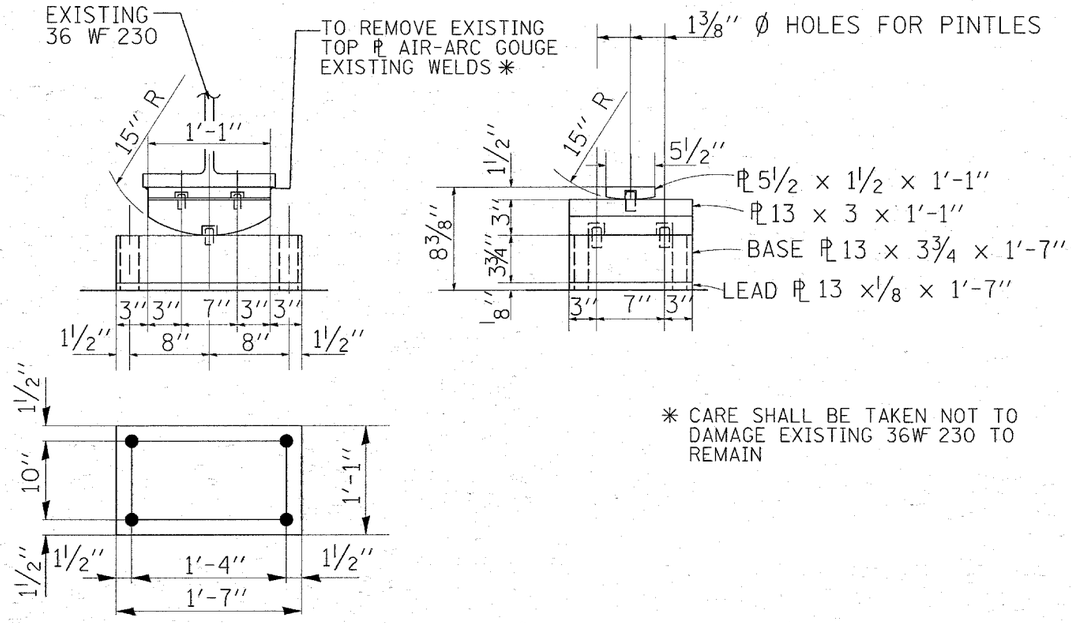
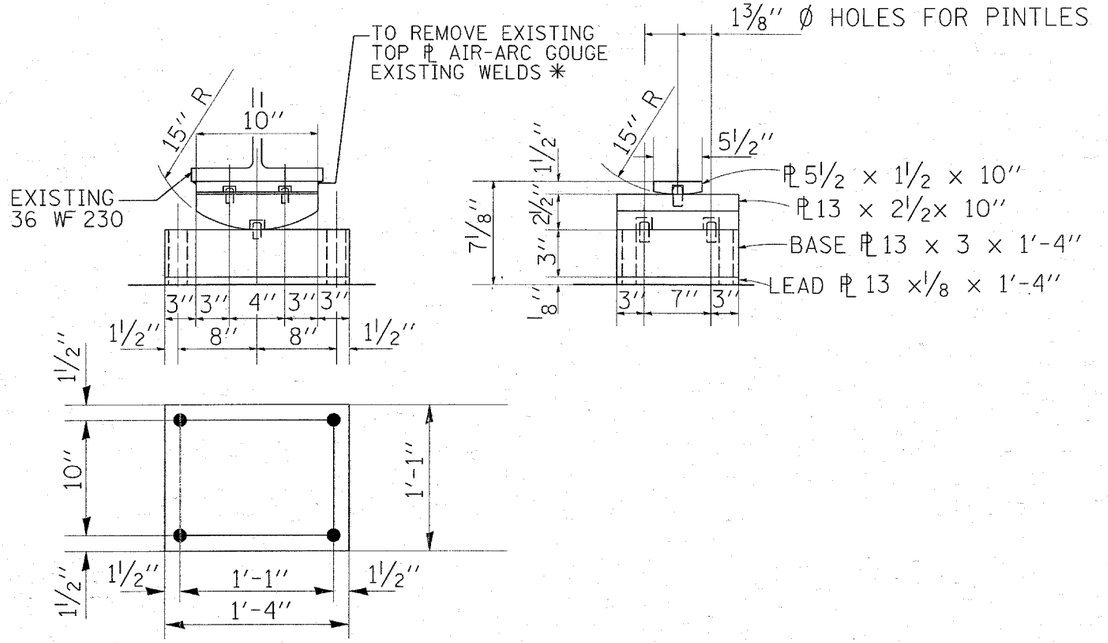
		DRAWN -	REVISED -				350	3068 B-I	COOK	11	7
	PLOT SCALE = 50.00 ' / IN.	CHECKED -	REVISED -						CONTRACT NO. 60B29		
	PLOT DATE = 5/2/2008	DATE -	REVISED -		SCALE:	SHEET NO. 3 OF 5 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

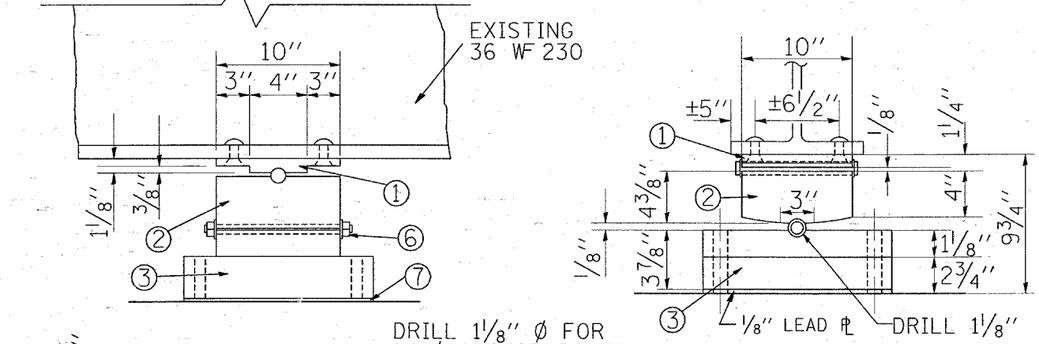


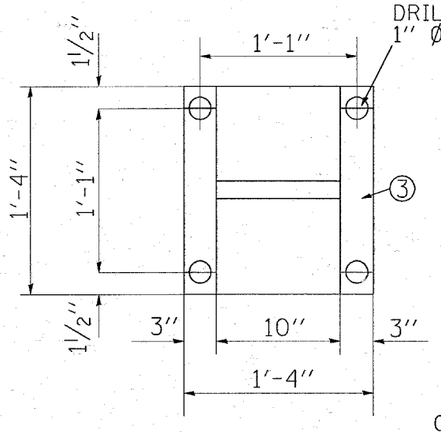
✳ CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING 36WF 230 TO REMAIN

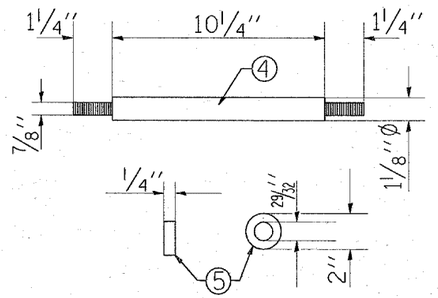
REPLACE APPROACH SPAN BEARING
NEW NORTHWEST PEDESTAL



REPLACE APPROACH SPAN BEARING
NEW SOUTHEAST PEDESTAL







REPLACE APPROACH SPAN BEARING
WITH NEW POT BEARINGS
ORIGINAL NORTHEAST & SOUTHWEST PEDESTALS

MATERIAL FOR ONE BEARING

① 1- ℄ 10 x 1 1/8 x 0'-10"
② 1- ℄ 10 x 4 1/2 x 0'-10"
③ 1- ℄ 16 x 4 x 1'-4"
④ 2- PINS 1 1/8" Ø x 1'-0 3/4"
⑤ 4- WASHERS 1/4" x 2"
⑥ 4- 7/8" NUTS
⑦ 1- ℄ 16 x 1/8 x 1'-4" (LEAD)

FOR INFORMATION ONLY

FILE NAME = c:\projects\d131906\d131906aa.dgn	USER NAME = midyja	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BEARING DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			350	3068 B-I	COOK	11	8
	PLOT SCALE = 50.00 ' / IN.	CHECKED -	REVISED -					CONTRACT NO. 60B29		
	PLOT DATE = 4/4/2008	DATE -	REVISED -		SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

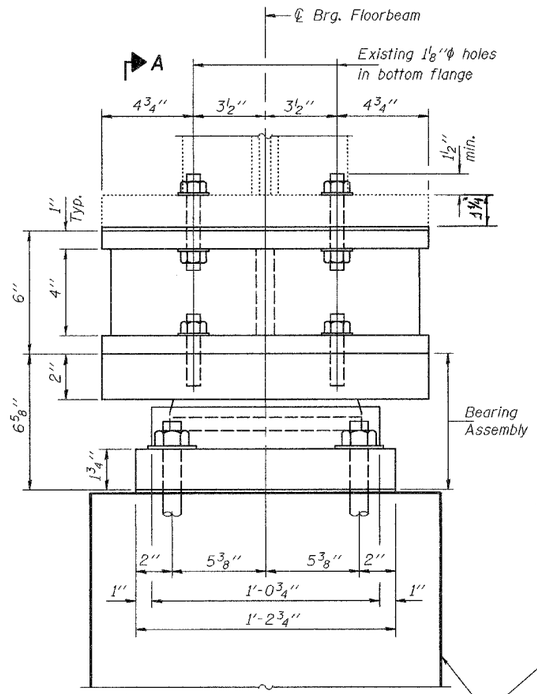
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 350	*	COOK	11	9
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

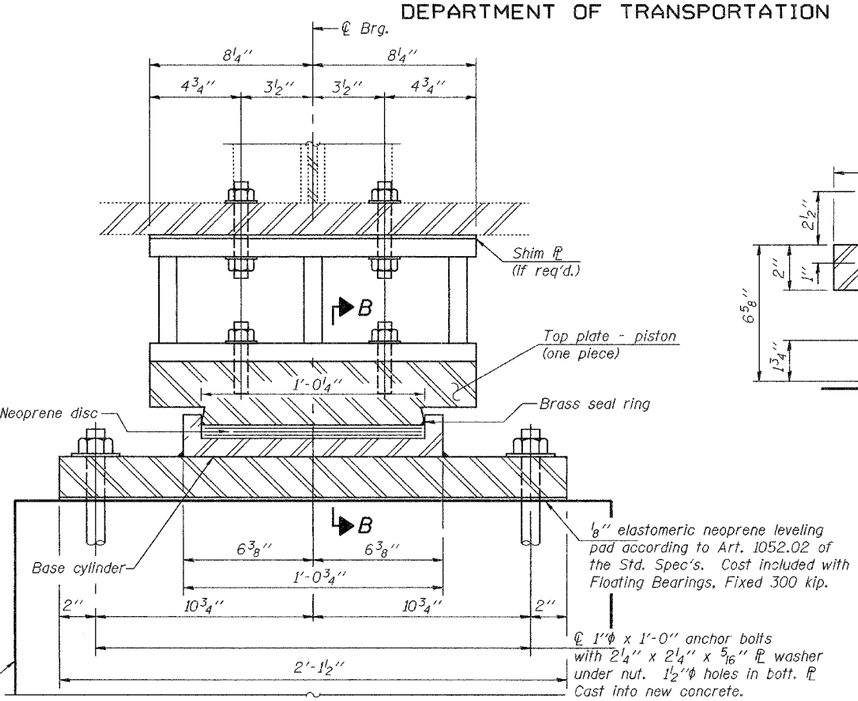
SHEET NO. 1
1 SHEETS

* 3068 B-1 Contract #60B29

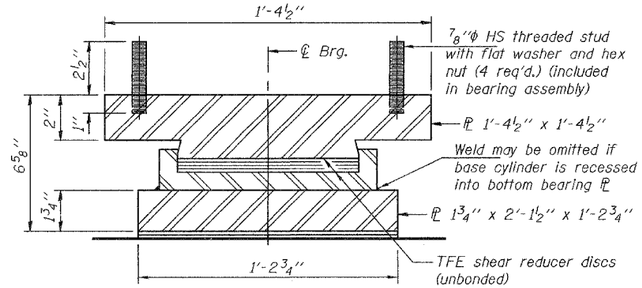
Notes:
The plates of the Bearing Assembly shall be AASHTO M270, Grade 50.
Anchor bolts shall be AASHTO M314 Grade 55.
Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions.
Cost of steel extensions included with Furnishing and Erecting Structural Steel.



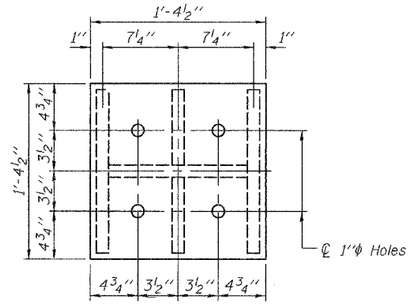
A ELEVATION



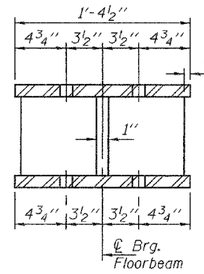
SECTION A-A



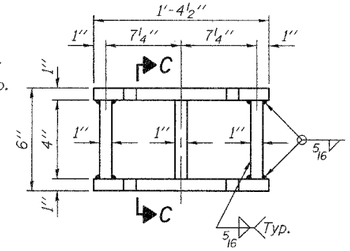
SECTION B-B



PLAN TOP AND BOTTOM PLATE

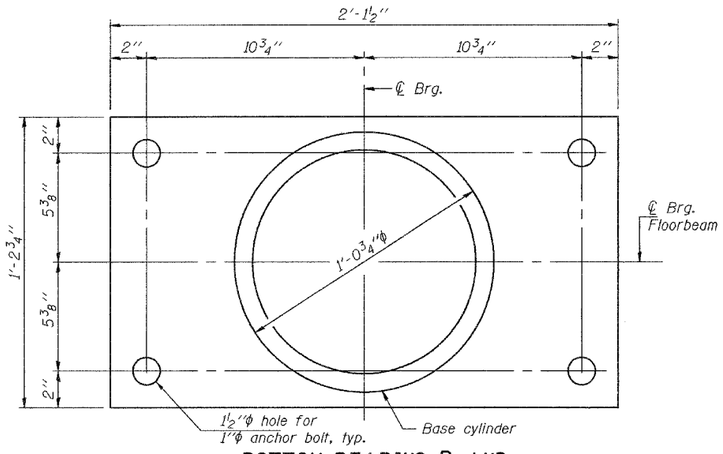


SECTION C-C

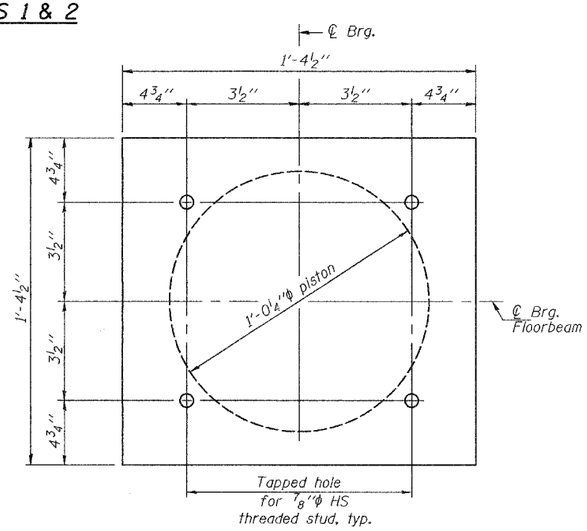


STEEL EXTENSION DETAIL

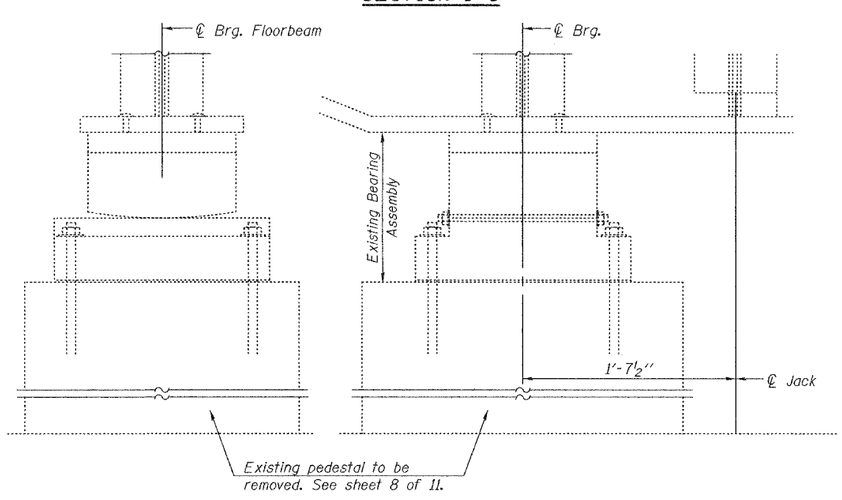
FIXED FLOATING BEARING AT PIERS 1 & 2



BOTTOM BEARING ℙ AND BASE CYLINDER PLAN



TOP BEARING ℙ AND PISTON PLAN



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

DESIGNED	Victor H. Veliz
CHECKED	SJB
DRAWN	baliva
CHECKED	VHV SJB

MAY 7, 2008
EXAMINED _____ ENGINEER OF STRUCTURAL SERVICES
PASSED _____ ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS RALPH E. ANDERSON 081-004625 SPRINGFIELD REGISTERED STRUCTURAL ENGINEER

EXPIRES 11-30-2008

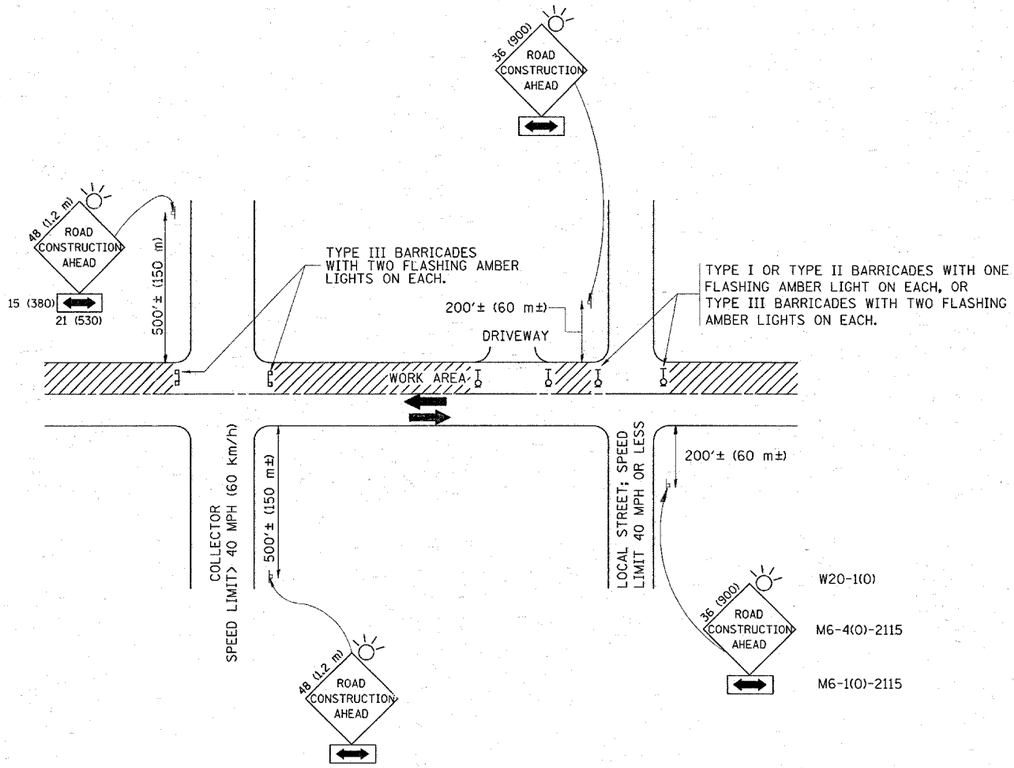
BEARING DATA	
Vertical design load	270 kip
Lateral design load	54 kip

BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotation Bearings, Fixed - 300 kip	Each	4
Anchor Bolts, 1"	Each	16
Jack and Remove Existing Bearings	Each	4
Furnishing and Erecting Structural Steel	Pound	930

APPROACH BEARING DETAILS
FAP 350 (IL 50/83)
CICERO AVE OVER CAL SAG CHANNEL
COOK COUNTY
STRUCTURE NO. 016-0421

...\projects\deb00026\c160421.dgn 3/7/2008 2:21:46 PM



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

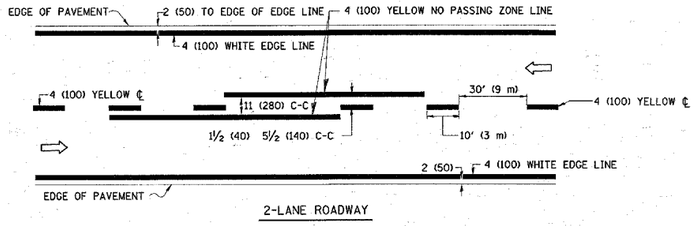
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = midyja	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 4/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

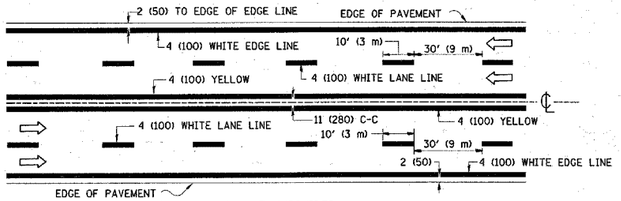
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

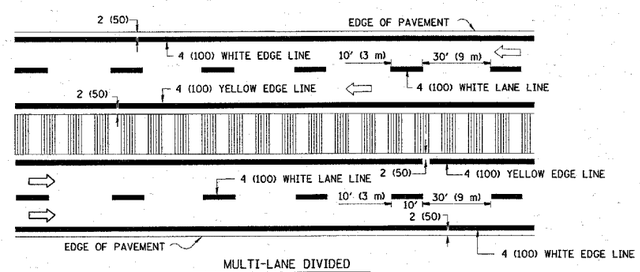
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	Cook	11	10
	TC-10	CONTRACT NO. 60829		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



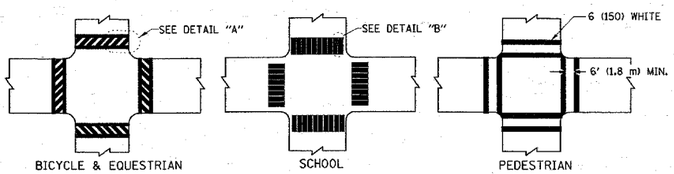
MULTI-LANE UNDIVIDED

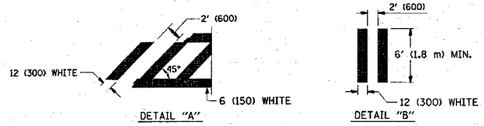


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

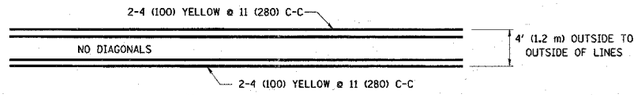
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

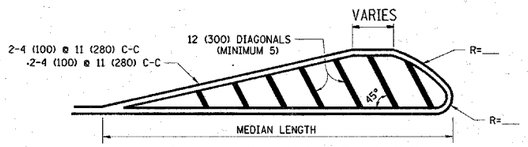




TYPICAL CROSSWALK MARKING



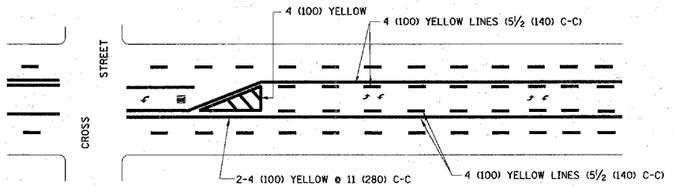
4' (1.2 m) WIDE MEDIANS ONLY



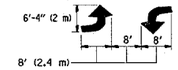
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

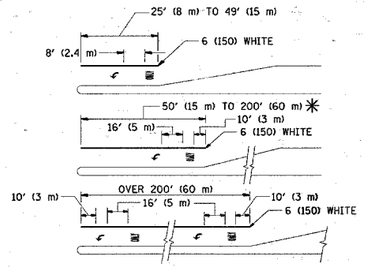


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

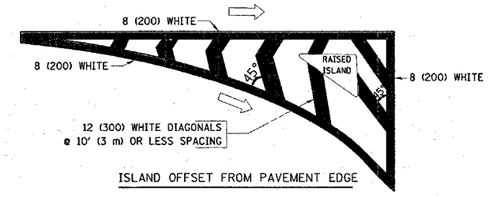


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

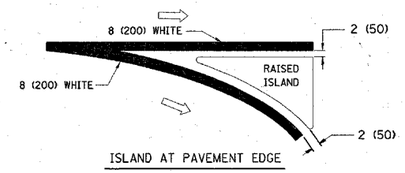
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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 UNDIVEDED 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.

FILE NAME = W:\diststd\22x34\tc13.dgn	USER NAME = mdyja	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 4/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 B-I	Cook	11	11
	TC-13	CONTRACT NO. 60623		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		