

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	1

CONTRACT NO. 60A65  
D-91-093-06

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 1360  
SECTION 0101BR-2

FOSTER AVENUE OVER I-94 (EDENS EXPWY)  
S.N. 016-0246

BRIDGE SUPERSTRUCTURE REPLACEMENT &  
SUBSTRUCTURE REPAIR

COOK COUNTY

C-91-093-06

PROJECT: BHM-1360(001)

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (URBAN)

2002 ADT = 22,000

2021 ADT = 46,980

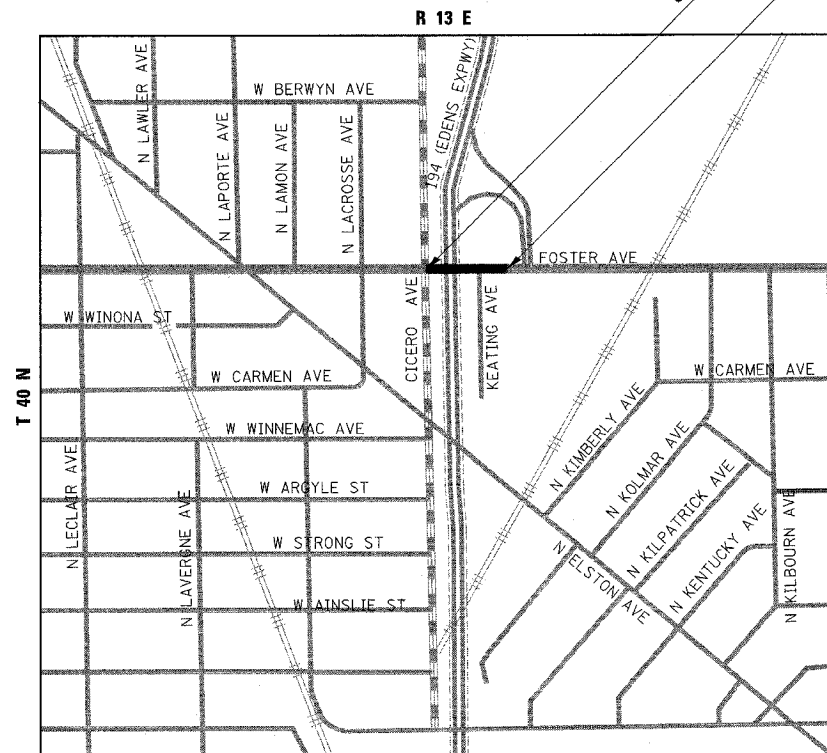
P.V. = 83.5% S.U. = 12% M.U. = 4.5%

FOSTER AVENUE DESIGN SPEED LIMIT = 35 MPH

FOSTER AVENUE POSTED SPEED LIMIT = 30 MPH

IMPROVEMENT IS LOCATED IN THE  
CITY OF CHICAGO, COOK COUNTY

**FOSTER AVENUE OVER I-94**  
SN: 016-0246 (EXIST.)  
REMOVE AND REPLACE EXISTING  
2-SPAN SUPERSTRUCTURE WITH  
30" WIDE FLANGE STEEL BEAMS  
AND NEW CONCRETE DECK.  
REMOVE AND REPLACE EXISTING  
APPROACH SLABS AND JOINTS  
UTILIZING A DETOUR ROUTE.



JEFFERSON TOWNSHIP  
LOCATION MAP  
NOT TO SCALE

GROSS & NET LENGTH = 360 FT. = 0.068 MI.

IMPROVEMENT BEGINS  
STA. 98 + 90

IMPROVEMENT ENDS  
STA. 102 + 50



LOCATION OF SECTION INDICATED THIS: -

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED June 27 20 06  
Diane M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
August 18, 20 06  
Mike Nire  
ENGINEER OF DESIGN AND ENVIRONMENT  
August 18, 20 06  
Milton R. Sees  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS \_\_\_\_\_



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

CONTRACT NO. 60A65

DISTRICT ONE - BUREAU OF DESIGN  
PROJECT MANAGER: RUSS SINHA (847) 705-4203



Edward J. Kalina 6-29-06 11-30-07  
REGISTERED P.E. STATE OF ILLINOIS EXPIRES



William J. Vegrzyn 6-29-06 11-30-06  
REGISTERED S.E. STATE OF ILLINOIS EXPIRES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	2
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60A65


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 Excellence through Ownership  200 West Front Street Wheaton, IL 60187	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)  <b>INDEX OF SHEETS &amp; STANDARDS</b>  SCALE: VERT. _____ HORIZ. _____ DATE: JUNE 30, 2006
	NAME	DATE	
DRAWN BY: NEC		CHECKED BY: SPF	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	3
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60A65

### GENERAL NOTES – ROADWAY

- SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- USE NO. 8 EPOXY-COATED TIE BARS (OR DOWEL BARS) CONFORMING TO ARTICLE 1003.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR AS SHOWN ON STATE STANDARD 420001 AND FOR TYING PORTLAND CEMENT CONCRETE PAVEMENT TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED.
- THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS PAVEMENT LIFTS.
- ALL CURB HEIGHT TRANSITIONS TO BE 10 FT IN LENGTH.

### GENERAL NOTES – TRAFFIC CONTROL & PROTECTION

- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE III BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE RESIDENT ENGINEER SHALL CONTACT DON CHIARUGGI, AREA TRAFFIC ENGINEER AT (847) 741-9857, A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

### GENERAL NOTES – DRAINAGE & UTILITIES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." AT 1-312-744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES. (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

### PLAN NOTES – CITY OF CHICAGO


- PRIOR TO THE START OF WORK, PERMITS ARE REQUIRED FROM THE DEPARTMENT OF WATER MANAGEMENT FOR THE CONSTRUCTION, REPAIR, ADJUSTMENT, RODDING OR CLEANING OF ANY SUBSURFACE STRUCTURE DESIGNED TO COLLECT OR TRANSPORT STORM AND/OR SANITARY WASTE WATER, EITHER IN PRIVATE PROPERTY OR IN THE PUBLIC WAY. A DEPARTMENT OF WATER MANAGEMENT PERMIT MUST BE OBTAINED ONLY BY A LICENSED DRAINLAYER.
- THE SUCCESSFUL BIDDER SHALL OBTAIN PERMITS FROM THE CITY OF CHICAGO OEMC, WATER & SEWER AND OTHER DEPARTMENTS AS NEEDED ON A TIMELY FASSION SO AS NOT TO DELAY THE PROJECT.
- PRIOR TO, AND FOLLOWING CONSTRUCTION, ALL SEWER LINES WITHIN IMPROVEMENT LIMIT SHALL BE TELEVIEWED TO DETERMINE THEIR CONDITION.
- IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT AT (312) 744-7001.
- BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT SUITE L110, 333 SOUTH STATE STREET, CHICAGO IL 60602. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION
- SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED STRUCTURES.
- ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND GRATES OR LIDS ON SEWER STRUCTURES SHALL BE REPLACED WITH NEW DEPARTMENT OF WATER MANAGEMENT STANDARD FRAMES AND GRATES OR LIDS. OLD FRAMES AND GRATES OR LIDS SHALL BE DELIVERED TO THE DEPARTMENT OF WATER MANAGEMENT.
- CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT.
- PAVEMENT REPLACEMENT AROUND FRAMES AND GRATES OR LIDS WHERE DRAINAGE, WATER MAIN OR ELECTRICAL STRUCTURES ARE ADJUSTED OR RECONSTRUCTED, SHALL BE WITH CLASS SI CONCRETE.

### GENERAL NOTES – MISCELLANEOUS

- ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON THE U.S.G.S DATUM.
- THE CONTRATOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

### GENERAL NOTES – EROSION CONTROL & LANDSCPING

- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
- ALL AREAS DISTURBED AND RESTORED WITH SEEDING SHALL BE COVERED WITH AN EROSION CONTROL BLANKET IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED ARE AS OUTLINED IN THESE PLANS, ANY ADDITIONAL AREAS SHALL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATION OF ALL SEEDING AND HAVE ALL PLANTING LAYOUTS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- APPROVED WATERING EQUIPMENT SHALL BE AT THE SITE OF THE WORK AND IN OPERATING CONDITION PRIOR TO STARTING THE SEEDING OPERATION AND DURING ALL SEEDING OPERATIONS OR SEEDING WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL REPAIR IN KIND ANY AREAS DAMAGED AS A RESULT OF LANDSCAPING OPERATIONS
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR (4) INCHES IN AREAS TO BE SEEDED OR SODDED.
- LOCATIONS FOR PLANTING OF PROPOSED TREES (9) INCLUDED IN THIS CONTRACT WILL BE DETERMINED BY THE ENGINEER.
- PLEASE CONTACT MELISSA DEL ROSARIO 72 HOURS PRIOR FOR PLANTING LAYOUT (847-705-4391).

 Excellence through Ownership  200 West Front Street Wheaton, IL 60187	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)  <b>GENERAL NOTES</b>  SCALE: VERT. HORIZ. DATE: JUNE 30, 2006 DRAWN BY: NEC CHECKED BY: SPF
	NAME	DATE	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	4
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60A65

CODE #	PAY ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITY	CONSTRUCTION CODE				
				J000-2A	X271-2A	Y002-1C	Y030-1E	Y031-1F
				ROADWAY	#016-0246 STRUCTURE	SIGNING	LIGHTING	TRAFFIC SIGNALS
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	88	88				
20101100	TREE TRUNK PROTECTION	EACH	7	7				
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	2	2				
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	1	1				
20200100	EARTH EXCAVATION	CU YD	202	202				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	55	55				
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	129	129				
• 25000210	SEEDING CLASS 2A	ACRE	0.1	0.1				
• 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3				
• 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3	3				
• 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3				
• 25100630	EROSION CONTROL BLANKET	SQ YD	129	129				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3	3				
28000510	INLET FILTERS	EACH	6	6				
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	500	500				
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	116	116				
42000531	PORTLAND CEMENT CONCRETE PAVEMENT 11 1/2" (JOINTED)	SQ YD	149	149				
42001300	PROTECTIVE COAT	SQ YD	1,857	770	1,087			
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	380	380				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,625	1,625				
42400800	DETECTABLE WARNINGS	SQ FT	48	48				
44000100	PAVEMENT REMOVAL	SQ YD	76	76				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	628	628				
44000600	SIDEWALK REMOVAL	SQ FT	1,990	1,990				
44000700	APPROACH SLAB REMOVAL	SQ YD	522	522				
48101200	AGGREGATE SHOULDERS, TYPE B	TON	17	17				
48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SQ YD	161	161				
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1				
50102400	CONCRETE REMOVAL	CU YD	23.4	23.4				
50300225	CONCRETE STRUCTURES	CU YD	65.9	65.9				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	288.1	288.1				
50300260	BRIDGE DECK GROOVING	SQ YD	716	716				
50300310	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	20	20				
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1				
50500505	STUD SHEAR CONNECTORS	EACH	4,260	4,260				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	73,370	73,370				
50900805	PEDESTRIAN RAILING	FOOT	435	435				
51500100	NAME PLATES	EACH	1	1				
58700200	BRIDGE SEAT SEALER	SQ FT	320	320				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3				
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4				
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	4	4				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	3	3				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	285	285				

• SPECIALTY ITEM



Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. ROUTE 1360 (FOSTER AVENUE)

**SUMMARY OF QUANTITIES**

SCALE: VERT.  
HORIZ.  
DATE: JUNE 30, 2006

DRAWN BY: NEC  
CHECKED BY: SPF

6/30/2006 8:40:39 AM K:\182519\Cocci\Design\8259\_SumQty\_Cls.dgn

CODE #	PAY ITEM	UNIT	URBAN 801.FED. 201.STATE TOTAL QUANTITY	CONSTRUCTION CODE				
				J000-2A ROADWAY	X271-2A #016-0246 STRUCTURE	Y002-10 SIGNING	Y030-1E LIGHTING	Y031-FF TRAFFIC SIGNALS
60605900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12	FOOT	148	148				
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	189	189				
63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50	50				
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1				
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	1	1				
63200310	GUARDRAIL REMOVAL	FOOT	124	124				
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	137	137				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	556	556				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	198	198				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	36	36				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	446	446				
72000100	SIGN PANEL - TYPE 1	SQ FT	74			74		
72000200	SIGN PANEL - TYPE 2	SQ FT	44			44		
72000300	SIGN PANEL - TYPE 3	SQ FT	621			621		
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	74			74		
72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	44			44		
72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	621			621		
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	2			2		
72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	319			319		
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1,020			1,020		
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	30			30		
72900200	METAL POST - TYPE B	FOOT	12			12		
73000100	WOOD SIGN SUPPORT	FOOT	34			34		
73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	97.2		97.2			
73400100	CONCRETE FOUNDATIONS	CU.YD.	38			38		
73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	7			7		
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	155	155				
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2,094	2,094				
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	658	658				
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	80	80				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	35	35				
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	19	19				
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1				
78300100	PAVEMENT MARKING REMOVAL	SQ FT	489	489				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	23	23				
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1				1	
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1				1	
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4"	EACH	6				6	
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x10"x6"	EACH	2				2	
81300730	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"x14"x6"	EACH	1				1	
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	490				490	
81700110	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO.10	FOOT	1,500				1,500	

\* SPECIALTY ITEM



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200 West Front Street  
Wheaton, IL 60187

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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. ROUTE 1360 (FOSTER AVENUE)

**SUMMARY OF QUANTITIES**

SCALE: VERT.  
HORIZ.  
DATE: JUNE 30, 2006

DRAWN BY: NEC  
CHECKED BY: SFP

Rev.

CODE #	PAY ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITY	CONSTRUCTION CODE				
				J000-2A ROADWAY	X271-2A #016-0246 STRUCTURE	Y002-1C SIGNING	Y030-1E LIGHTING	Y031-1F TRAFFIC SIGNALS
81700115	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO.8	FOOT	1,750				1,750	
81700120	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO.6	FOOT	3,200				3,200	
81800630	AERIAL CABLE, 2-1/C NO. 6, ALUMINUM, WITH MESSENGER WIRE	FOOT	375				375	
82106400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	11				11	
82107110	UNDERPASS LUMINAIRE, 70W, HIGH PRESSURE SODIUM, STAINLESS STEEL HOUSING	EACH	8				8	
XX004947	LIGHT POLE FOUNDATION, 24" DIAMETER	EACH	5				5	
89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1					1
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	112				112	
A2004816	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2" CALIPER, BALLED AND BURLAPPED	EACH	15	15				
XX002113	TEMPORARY LIGHTING CONTROLLER	EACH	1				1	
XX004812	VIDEO TAPING OF SEWERS	FOOT	400	400				
XX005369	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1				
X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1				1	
X0320080	ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT	28				28	
X0321430	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SPECIAL	SQ YD	64	64				
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4				
X0323557	BRIDGE JOINT SYSTEM (EXPANSION), 1"	FOOT	151		151			
X0324183	CLEAN EXISTING ELECTRICAL MANHOLE OR HANDHOLE	EACH	2				2	
X0324198	REMOVAL OF ASBESTOS CEMENT CONDUIT	FOOT	464		464			
X0325015	ADJUST FRAME AND LID	EACH	4				2	2
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	797		797			
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	113	113				
X4409400	BITUMINOUS SURFACE REMOVAL 1 3/4"	SQ YD	1,149	1,149				
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1				
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	5	5				
X8040100	ELECTRIC CONNECTION TO SIGN STRUCTURE	EACH	2			2		
X8110145	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., RIGID GALV., PVC COATED	FOOT	400				400	
X8110155	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., RIGID GALVANIZED STEEL, PVC COATED	FOOT	965				965	
X8210055	FLUORESCENT LUMINAIRE FOR SIGN LIGHTING	EACH	13				13	
Z0002600	BAR SPLICERS	EACH	124		124			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0018940	DRILL EXISTING MANHOLE OR HANDHOLE	EACH	8				8	
Z0076600	TRAINEES	HOUR	500	500				
Z0064800	SELECTIVE CLEARING	UNIT	5	5				
X0325527	REMOVE AND REINSTALL SIGNAL EQUIPMENT	L SUM	1					1
X0325528	REMOVE AND REINSTALL LIGHTING EQUIPMENT	L SUM	1				1	
X0325529	LIGHT POLE, ALUMINUM, ARTERIAL, DAVIT, 15" BOLT CIRCLE (INSTALL ONLY)	EACH	5				5	
X0325530	MAST ARM, ALUMINUM, ARTERIAL, DAVIT, 8' (INSTALL ONLY)	EACH	5				5	
X0325531	CONDUIT IN TRENCH, 2" PVC SCHEDULE 40	FOOT	170				170	
X0325532	CONDUIT IN TRENCH, 2" PVC SCHEDULE 80	FOOT	345				345	
X0325533	REVLAC SIGN REMOVAL	L SUM	1			1		
X0325534	REVLAC SIGN RE-INSTALLATION	L SUM	1			1		

\* SPECIALTY ITEM  
 A Y080

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.U. ROUTE 1360 (FOSTER AVENUE)

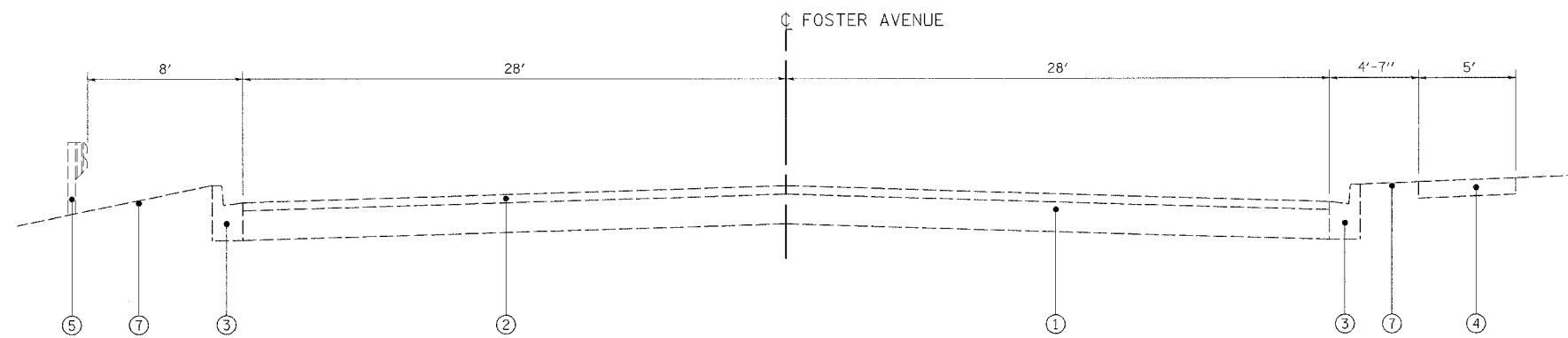
**SUMMARY OF QUANTITIES**

SCALE: VERT.  
 HORIZ.  
 DATE: JUNE 30, 2006

DRAWN BY: NEC  
 CHECKED BY: SFP

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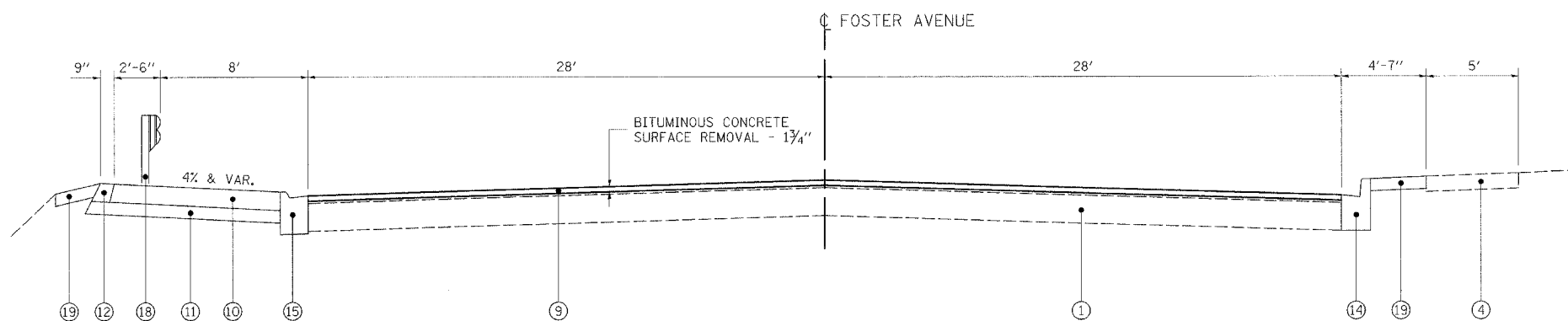


**EXISTING TYPICAL SECTION**

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX D, N50, 1 3/4"	BITUMINOUS SHOULDER SUPERPAVE, 6"
PG GRADE	PG 64-22	PG 58-22
MAX % RAP ALLOWABLE	15%	50%
DESIGN AIR VOIDS	4.0% @ 50 GYR	2.0% @ 30 GYR

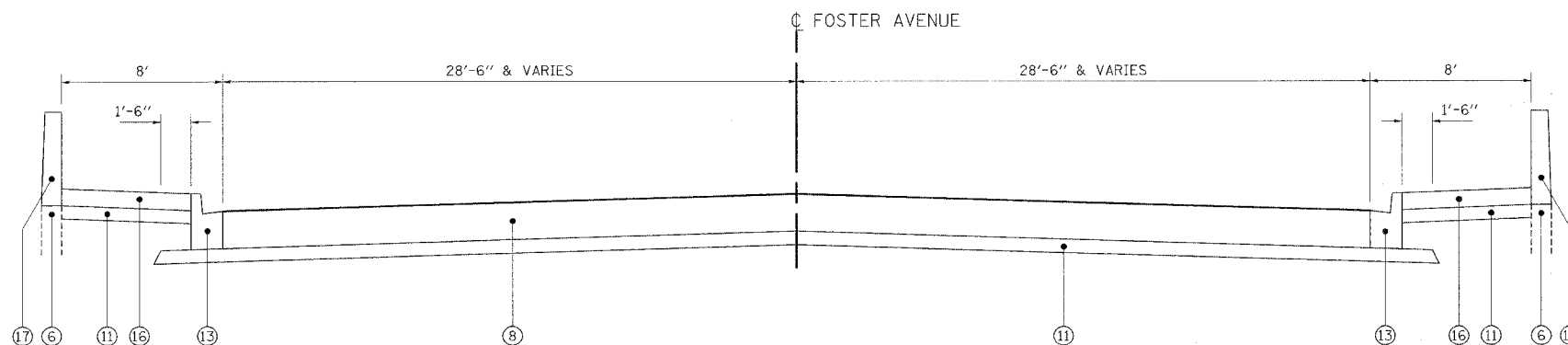
THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 POUNDS PER SQUARE YARD, PER INCH.



**PROPOSED RESURFACING**  
STA. 98+90.00 TO 98+96.00  
STA. 100+98.00 TO 102+50.00

**LEGEND**

- ① EXISTING P.C.C PAVEMENT 9"
- ② EXISTING BITUMINOUS SURFACE 2 1/2"
- ③ EXISTING COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12
- ④ EXISTING P.C.C. SIDEWALK
- ⑤ EXISTING GUARDRAIL
- ⑥ EXISTING RETAINING WALL
- ⑦ EXISTING TOPSOIL
- ⑧ PROPOSED P.C.C. PAVEMENT 11 1/2"
- ⑨ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50, 1 3/4"
- ⑩ PROPOSED BITUMINOUS SHOULDERS, SUPERPAVE, 6"
- ⑪ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ⑫ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑬ PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-9.12
- ⑭ PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12
- ⑮ PROPOSED COMBINATION CONCRETE CURB & GUTTER TYPE M-2.12
- ⑯ PROPOSED P.C.C SIDEWALK, 5"
- ⑰ PROPOSED RETAINING WALL EXTENSION
- ⑱ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑲ PROPOSED TOPSOIL, FURNISH AND PLACE, 4"



**PROPOSED RECONSTRUCTION**  
STA. 98+96.00 TO 99+12.00

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS		NAME	DATE																	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)</p> <p><b>TYPICAL SECTIONS</b></p> <p>SCALE: VERT. NOT TO SCALE HORIZ. DATE: JUNE 30, 2006</p> <p>DRAWN BY: NEC CHECKED BY: SPF</p>
	REVISIONS																					
NAME	DATE																					

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CURB & GUTTER				
LOCATION	COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12 (FOOT)	COMBINATION CONCRETE CURB AND GUTTER TYPE B-9.12 (FOOT)	COMBINATION CONCRETE CURB AND GUTTER TYPE M-2.12 (FOOT)	PROTECTIVE COAT (SQ YD)
EASTBOUND				
STA. 98+96.00 TO 99+29.75	52			11
STA. 99+29.75 TO 99+42.00		12		3
STA. 100+58.00 TO 101+10.75		53		7
STA. 101+10.75 TO 102+50.00	181			64
WESTBOUND				
STA. 98+96.00 TO 99+29.75	52			11
STA. 99+29.75 TO 99+42.00		12		3
STA. 100+58.00 TO 101+28.04		71		7
STA. 101+28.04 TO 103+16.64			189	55
TOTAL	285	148	189	161


REMOVAL SCHEDULE						
LOCATION	PAVEMENT REMOVAL (SQ YD)	COMBINATION CURB & GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)	APPROACH SLAB REMOVAL (SQ YD)	GUARDRAIL REMOVAL (FOOT)	BITUMINOUS SURFACE REMOVAL (SQ YD)
EASTBOUND						
STA. 98+90.00 TO 99+42.00	37	67	392	133		35
STA. 100+58.00 TO 102+50		236	675	126		477
WESTBOUND						
STA. 98+90.00 TO 99+42.00	39	66	430	136		35
STA. 100+58.00 TO 103+16.64		259	493	127	124	602
TOTAL	76	628	1,990	522	124	1,149

PAVEMENT MARKING SCHEDULE									
LOCATION	TEMPORARY PAVEMENT MARKING LINE 4" (FOOT)	TEMPORARY PAVEMENT MARKING LINE 6" (FOOT)	TEMPORARY PAVEMENT MARKING LINE 24" (FOOT)	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS (SQ FT)	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS (SQ FT)	POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (FOOT)	POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (FOOT)	POLYUREA PAVEMENT MARKING TYPE I - LINE 24" (FOOT)	PAVMENT MARKING REMOVAL (SQ FT)
FOSTER AVENUE									
EASTBOUND									
STA. 97+17.00 TO 98+17.00		100		73		24			8
STA. 98+96.00 TO 102+50.00						443			
CENTERLINE & TURN LANE									
STA. 99+11.00 TO 101+31.00					77		220		
STA. 101+65.00 TO 102+50.00						172			
PEDESTRIAN WALKWAY									
STA. 99+00.00 TO 99+06.00							167		
STA. 99+09.00 TO 99+11.00								42	
INTERSECTION									
STA. 98+29.00 TO 98+96.00		20				459			
WESTBOUND									
STA. 98+96.00 TO 102+50.00						48			
CICERO AVENUE									
NORTHBOUND									
STA. 17+53.00 TO 19+53.00	48		36	28				38	146
STA. 20+43.00 TO 22.78.00									
CENTERLINE & TURN LANES									
STA. 17+53.00 TO 19+53.00	400				39	400	126		174
STA. 20+43.00 TO 22.78.00					39		145		39
SOUTHBOUND									
STA. 17+53.00 TO 19+53.00	48	70				48			29
STA. 20+43.00 TO 22.78.00	60	8		36		60			93
TOTAL	556	198	36	137	155	2,094	658	80	489

PAVEMENT SCHEDULE								
LOCATION	SUB-BASE GRANULAR MATERIAL TYPE B 4" (CU YD)	PORTLAND CEMENT CONCRETE PAVEMENT 11 1/2" (JOINTED) (SQ YD)	PROTECTIVE COAT (SQ YD)	BRIDGE APPROACH PAVEMENT (SPECIAL) (SQ YD)	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SQ FT)	BITUMINOUS SHOULDERS SUPERPAVE 8" (SQ YD)	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SPECIAL (SQ YD)	BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE MIX "D", N50 (TON)
EASTBOUND								
STA. 98+90.00 TO 99+42.00	123	74.5	141	95	378			3.5
STA. 100+58.00 TO 102+50.00	56		141	95	503		32	59
WESTBOUND								
STA. 98+96.00 TO 99+42.00	123	74.5	141	95	405			3.5
STA. 100+58.00 TO 103+16.64	198		186	95	339	161	32	47
TOTAL	500	149.0	609	380	1,625	161	64	113

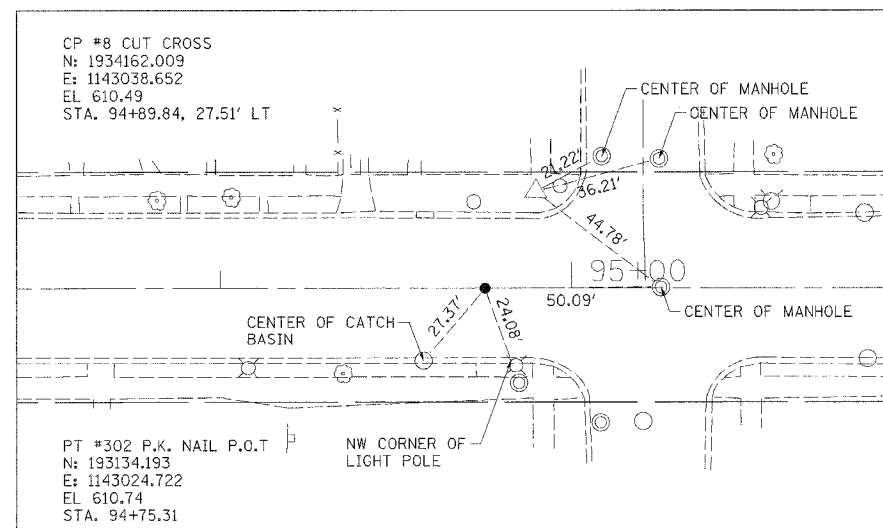
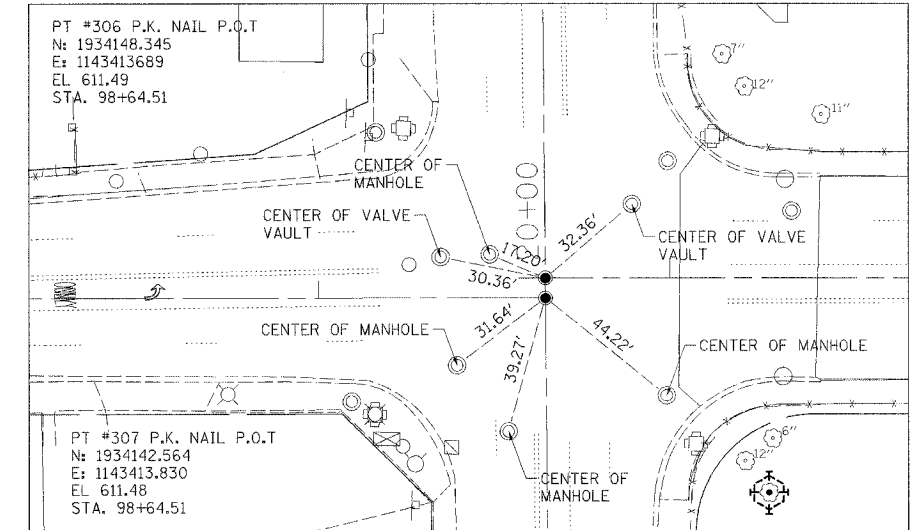
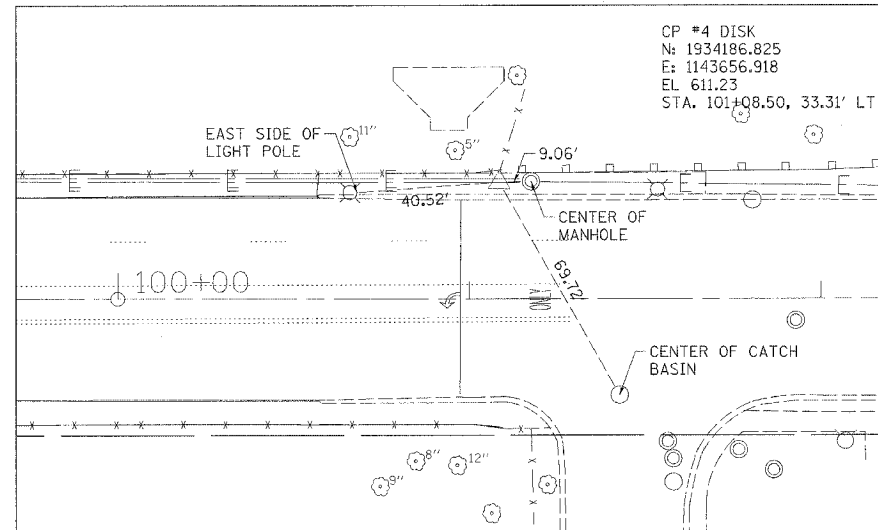
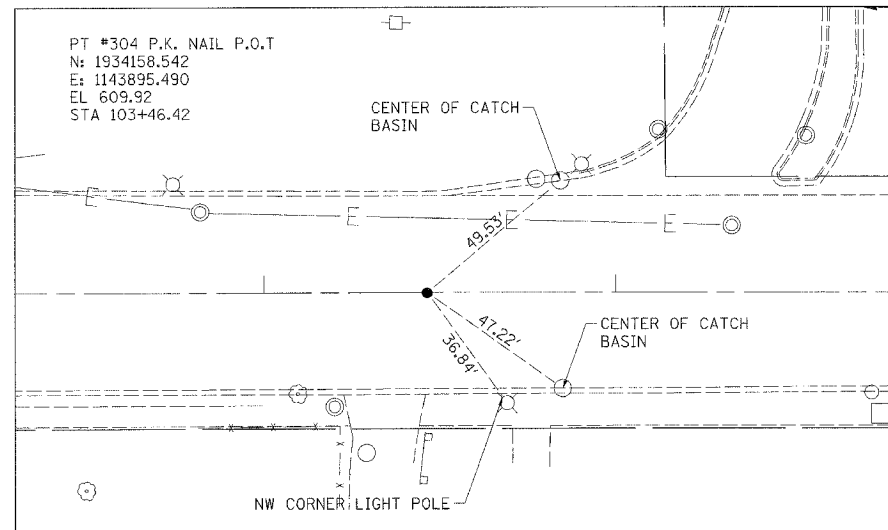
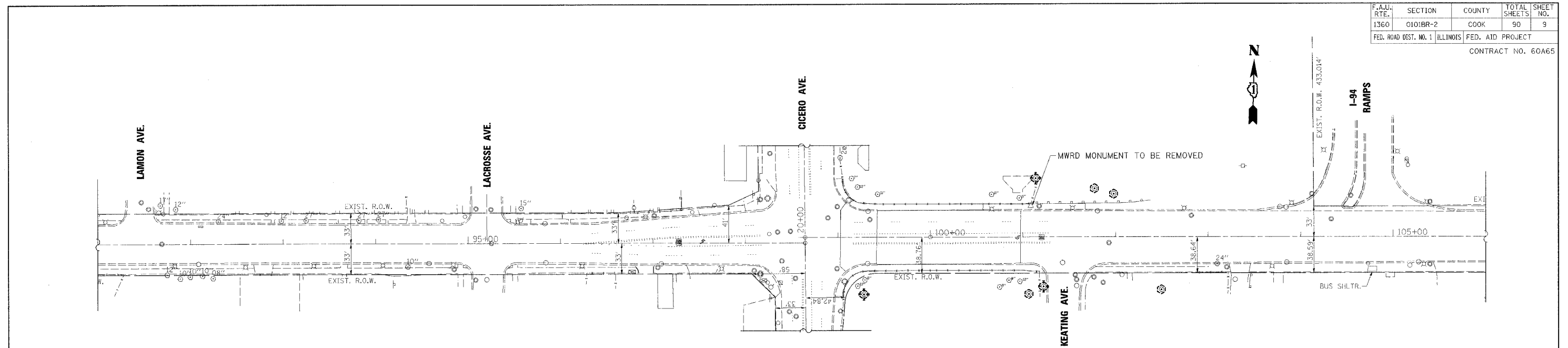
GUARDRAIL SCHEDULE			
LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 6 (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT) (EACH)
WESTBOUND			
STA. 101+08.25 TO 101+41.40		1	
STA. 101+41.40 TO 101+91.40	50		
STA. 101+91.40 TO 102+41.40			1
TOTAL	50	1	1

EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EARTHWORK BALANCE (+) WASTE (-) SHORTAGE (CU YD)	FURNISHED EXVACATION (CU YD)
STA. 98+96.00 TO STA. 99+42.00	77.6	1.0	1.5	58.2	(+) 56.7	0
STA. 100+58.00 TO STA. 103+16.64	124.3	53.3	6.3	93.3	(+) 87.0	0

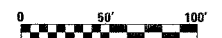
 Excellence through Ownership  200 West Front Street Wheaton, IL 60187	REVISIONS NAME      DATE		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)  <b>SCHEDULE OF QUANTITIES</b>  SCALE: VERT. HORIZ. DATE: JUNE 30, 2006
	DRAWN BY: NEC CHECKED BY: SPF		



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	9
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				

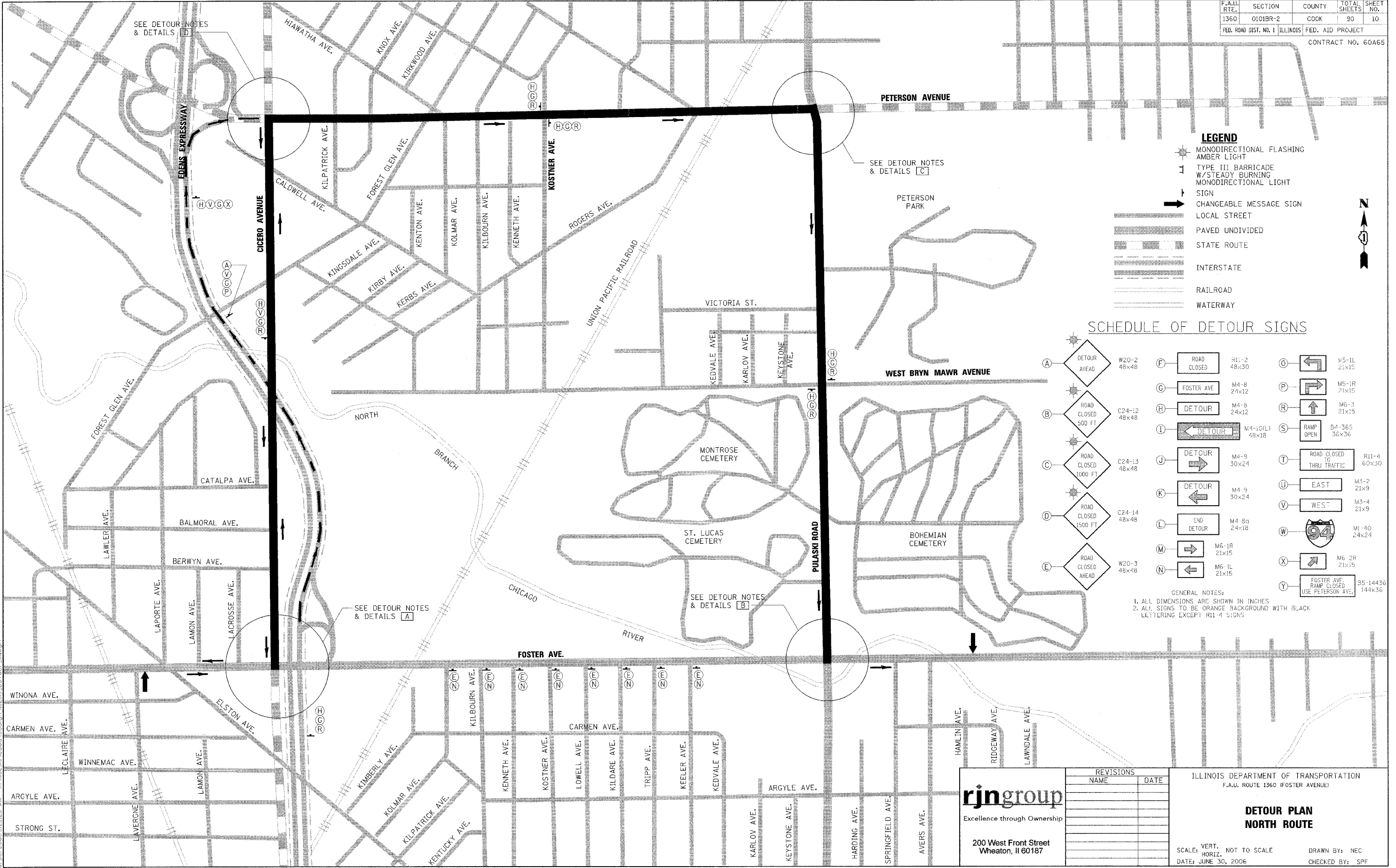


NOTE: SWING TIES ESTABLISHED FROM CADD FILE



<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<b>REVISIONS</b> NAME      DATE		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)  <b>ALIGNMENT, TIES &amp; BENCHMARKS</b>  SCALE: VERT.      DRAWN BY: NEC HORIZ.              CHECKED BY: SPF DATE: JUNE 30, 2006

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- LEGEND**
- ☀ MONODIRECTIONAL FLASHING AMBER LIGHT
  - ⊥ TYPE III BARRICADE W/STEADY BURNING MONODIRECTIONAL LIGHT
  - ➔ SIGN
  - ➔ CHANGEABLE MESSAGE SIGN
  - LOCAL STREET
  - PAVED UNDIVIDED
  - STATE ROUTE
  - INTERSTATE
  - RAILROAD
  - WATERWAY

**SCHEDULE OF DETOUR SIGNS**

(A) DETOUR AHEAD	W20-2 48x48	(F) ROAD CLOSED	R1-2 48x30	(O) LEFT TURN	M5-1L 21x15
(B) ROAD CLOSED 500 FT	C24-12 48x48	(G) FOSTER AVE	M4-8 24x12	(P) RIGHT TURN	M5-1R 21x15
(C) ROAD CLOSED 1000 FT	C24-13 48x48	(H) DETOUR	M4-5 24x12	(R) AHEAD	M6-3 21x15
(D) ROAD CLOSED 1500 FT	C24-14 48x48	(I) DETOUR	M4-10(L) 48x18	(S) RAMP OPEN	B4-36S 36x36
(E) ROAD CLOSED AHEAD	W20-3 48x48	(J) DETOUR	M4-9 30x24	(T) ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30
		(K) DETOUR	M4-9 30x24	(U) EAST	M3-2 21x9
		(L) END DETOUR	M4-8a 24x18	(V) WEST	M3-4 21x9
		(M) RIGHT TURN	M6-1R 21x15	(W) 94	M1-10 24x24
		(N) LEFT TURN	M6-1L 21x15	(X) RAMP CLOSED	M6-2R 21x15
				(Y) FOSTER AVE RAMP CLOSED USE PETERSON AVE.	B5-14436 144x36

GENERAL NOTES:  
 1. ALL DIMENSIONS ARE SHOWN IN INCHES  
 2. ALL SIGNS TO BE ORANGE BACKGROUND WITH BLACK LETTERING EXCEPT R11-4 SIGNS

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<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	NAME	DATE																			<p>ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)</p> <p><b>DETOUR PLAN NORTH ROUTE</b></p> <p>SCALE: VERT. NOT TO SCALE HORIZ. DATE: JUNE 30, 2006</p> <p>DRAWN BY: NEC CHECKED BY: SPF</p>
	NAME	DATE																				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	11
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 60A65		

**LEGEND**

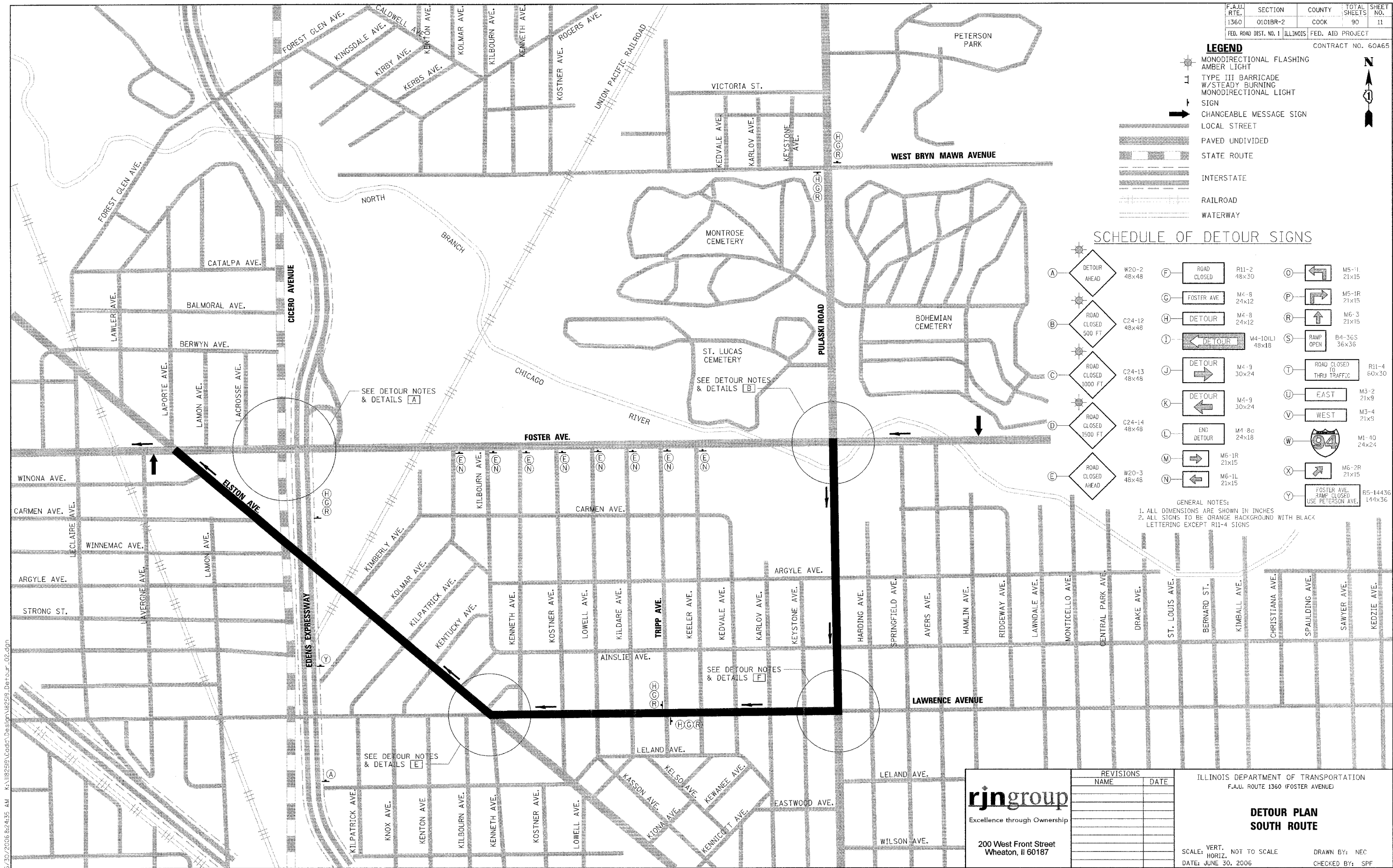
- MONODIRECTIONAL FLASHING AMBER LIGHT
- TYPE III BARRICADE W/STEADY BURNING MONODIRECTIONAL LIGHT SIGN
- CHANGEABLE MESSAGE SIGN
- LOCAL STREET
- PAVED UNDIVIDED
- STATE ROUTE
- INTERSTATE
- RAILROAD
- WATERWAY



**SCHEDULE OF DETOUR SIGNS**

	W20-2 48x48		R11-2 48x30		M5-1 21x15
	C24-12 48x48		M4-8 24x12		M5-1R 21x15
	C24-13 48x48		M4-8 24x12		M6-3 21x15
	C24-14 48x48		M4-10(L) 48x18		B4-36S 36x36
	W20-3 48x48		M4-9 30x24		R11-4 60x30
			M4-9 30x24		M3-2 21x9
			M4-8c 24x18		M3-4 21x9
			M6-1R 21x15		M1-10 24x24
			M6-1L 21x15		M6-2R 21x15
					B5-14436 144x36

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
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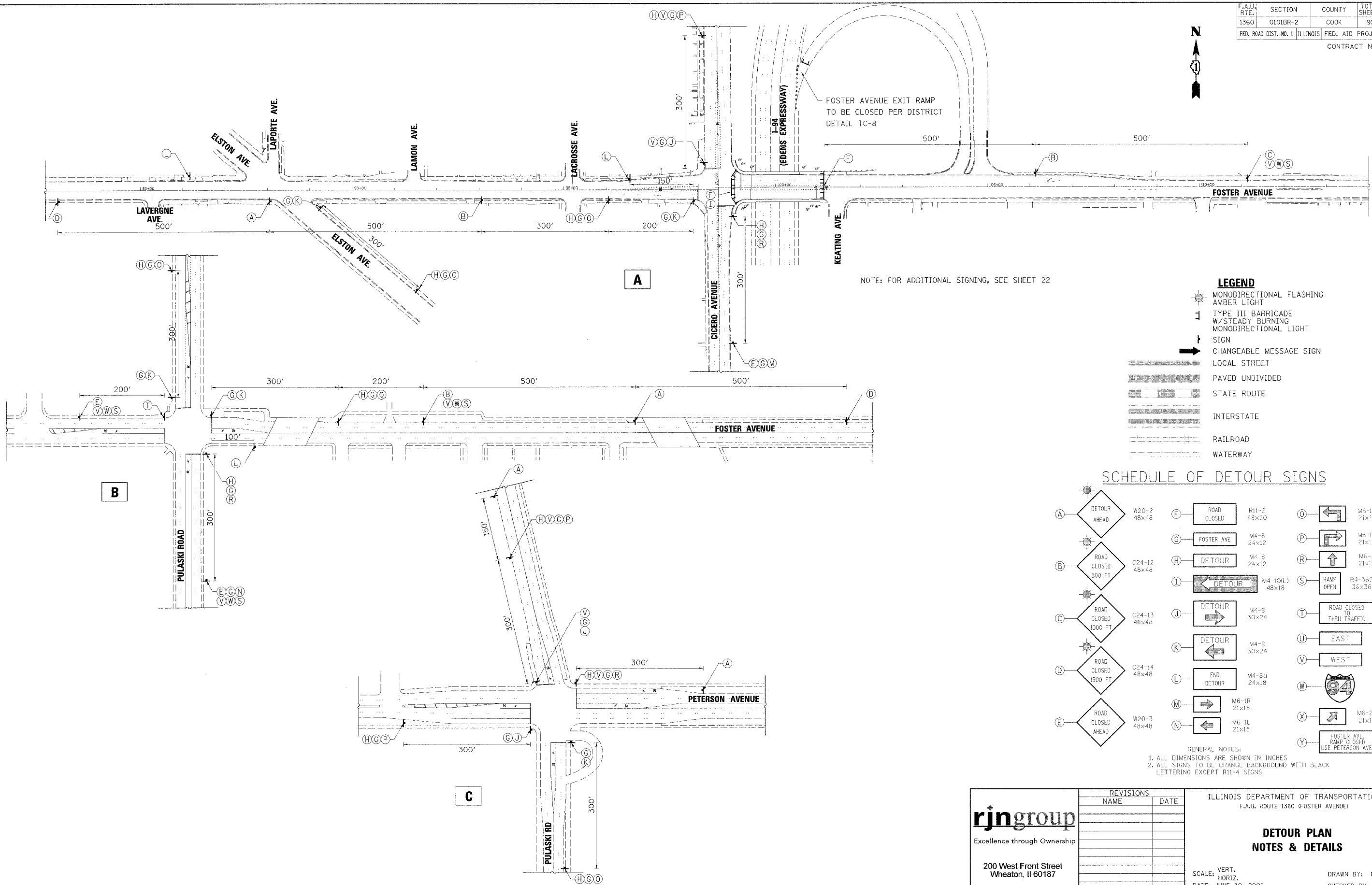
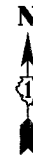
**DETOUR PLAN  
 SOUTH ROUTE**

SCALE: VERT. NOT TO SCALE  
 DATE: JUNE 30, 2006

DRAWN BY: NEC  
 CHECKED BY: SPF

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	12
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				



NOTE: FOR ADDITIONAL SIGNING, SEE SHEET 22

- LEGEND**
- MONODIRECTIONAL FLASHING AMBER LIGHT
  - TYPE III BARRICADE W/STEADY BURNING MONODIRECTIONAL LIGHT
  - SIGN
  - CHANGEABLE MESSAGE SIGN
  - LOCAL STREET
  - PAVED UNDIVIDED
  - STATE ROUTE
  - INTERSTATE
  - RAILROAD
  - WATERWAY

**SCHEDULE OF DETOUR SIGNS**

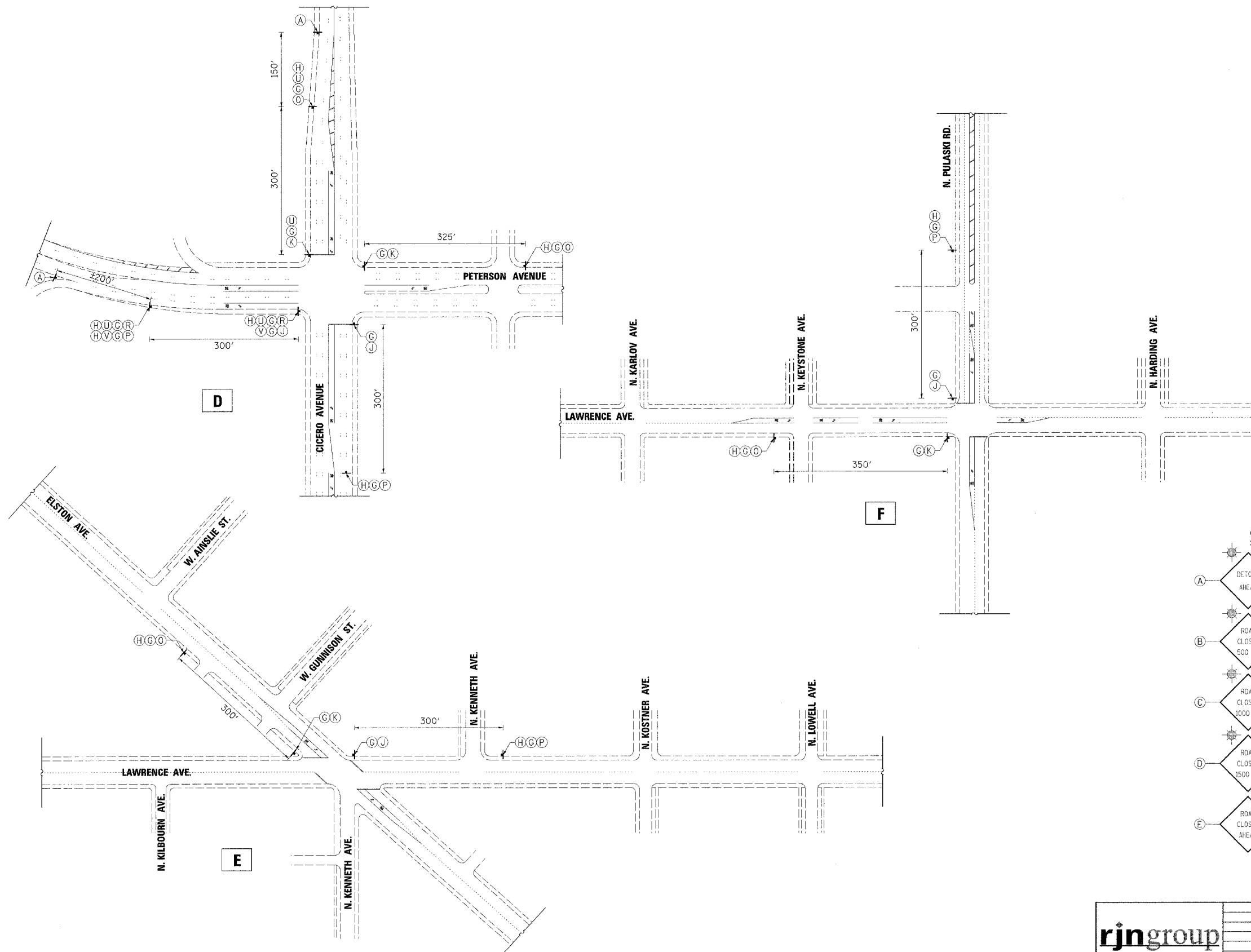
	W20-2 48x48		R11-2 48x30		M5-1L 21x15
	C24-12 48x48		M4-8 24x12		M5-1R 21x15
	C24-13 48x48		M4-8 24x12		M6-3 21x15
	C24-14 48x48		M4-10(L) 48x18		R4-3RS 36x36
	W20-3 48x48		M4-9 30x24		R11-1 60x30
			M4-8 30x24		M3-2 21x9
			M4-8a 24x18		M3-4 21x9
			M6-1R 21x15		M1-40 24x24
			M6-1L 21x15		M6-2R 21x15
					B5-14436 144x36

GENERAL NOTES:  
 1. ALL DIMENSIONS ARE SHOWN IN INCHES  
 2. ALL SIGNS TO BE ORANGE BACKGROUND WITH BLACK LETTERING EXCEPT R11-4 SIGNS

 Excellence through Ownership  200 West Front Street Wheaton, IL 60187	REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)
	NAME	DATE
<b>DETOUR PLAN NOTES &amp; DETAILS</b>		SCALE: VERT. HORIZ. DATE: JUNE 30, 2006
		DRAWN BY: NEC CHECKED BY: SPF

6/30/2006 7:07:31 AM K:\1182518\Coad\Design\182518\_DetourNotes.dwg

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	13
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				



**LEGEND**

- MONODIRECTIONAL FLASHING AMBER LIGHT
- TYPE III BARRICADE
- W/STEADY BURNING MONODIRECTIONAL LIGHT
- SIGN
- CHANGEABLE MESSAGE SIGN
- LOCAL STREET
- PAVED UNDIVIDED
- STATE ROUTE
- INTERSTATE
- RAILROAD
- WATERWAY

**SCHEDULE OF DETOUR SIGNS**

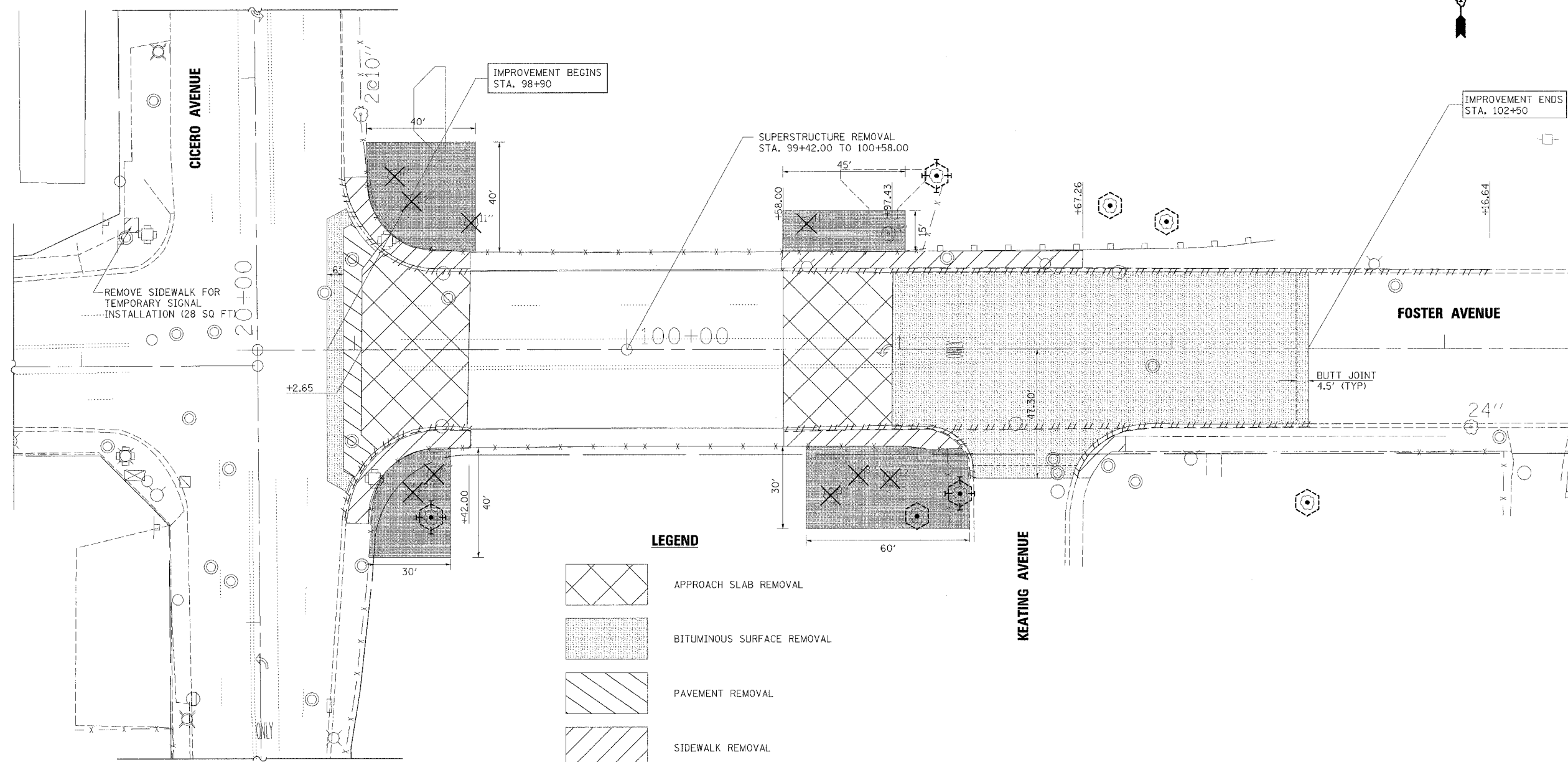
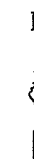
	W20-2 48x48		R11-2 48x30		M5-1L 21x15
	C24-12 48x48		M4-8 24x12		M5-1R 21x15
	C24-13 48x48		M4-6 24x12		M6-3 21x15
	C24-14 48x48		M4-10(L) 48x18		B4-36S 36x36
	W20-3 48x48		M4-9 30x24		R11-4 80x30
			M4-9 30x24		M3-2 21x9
			M4-8a 24x18		M3-4 21x9
			M6-1R 21x15		M1-40 24x24
			M6-1L 21x15		M6-2R 21x15
					05-14436 144x36

GENERAL NOTES:  
 1. ALL DIMENSIONS ARE SHOWN IN INCHES  
 2. ALL SIGNS TO BE ORANGE BACKGROUND WITH BLACK LETTERING EXCEPT R11-4 SIGNS



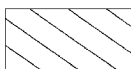

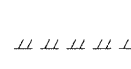


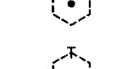
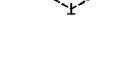
 Excellence through Ownership  200 West Front Street Wheaton, IL 60187	REVISIONS NAME      DATE      	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)  <p style="text-align: center;"><b>DETOUR PLAN NOTES &amp; DETAILS</b></p> SCALE: VERT.      DRAWN BY: NEC HORIZ.              CHECKED BY: SPF DATE: JUNE 30, 2006
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	14
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 60A65				



**LEGEND**

-  APPROACH SLAB REMOVAL
-  BITUMINOUS SURFACE REMOVAL
-  PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  CURB & GUTTER REMOVAL
-  TREE REMOVAL
-  SELECTIVE CLEARING
-  TREE PROTECTION
-  TRIM & PROTECT TREE



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 Excellence through Ownership  
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 Wheaton, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.U. ROUTE 1360 (FOSTER AVENUE)

**DEMOLITION PLAN**

SCALE: VERT.      DRAWN BY: NEC  
 HORIZ.              CHECKED BY: SPF  
 DATE: JUNE 30, 2006

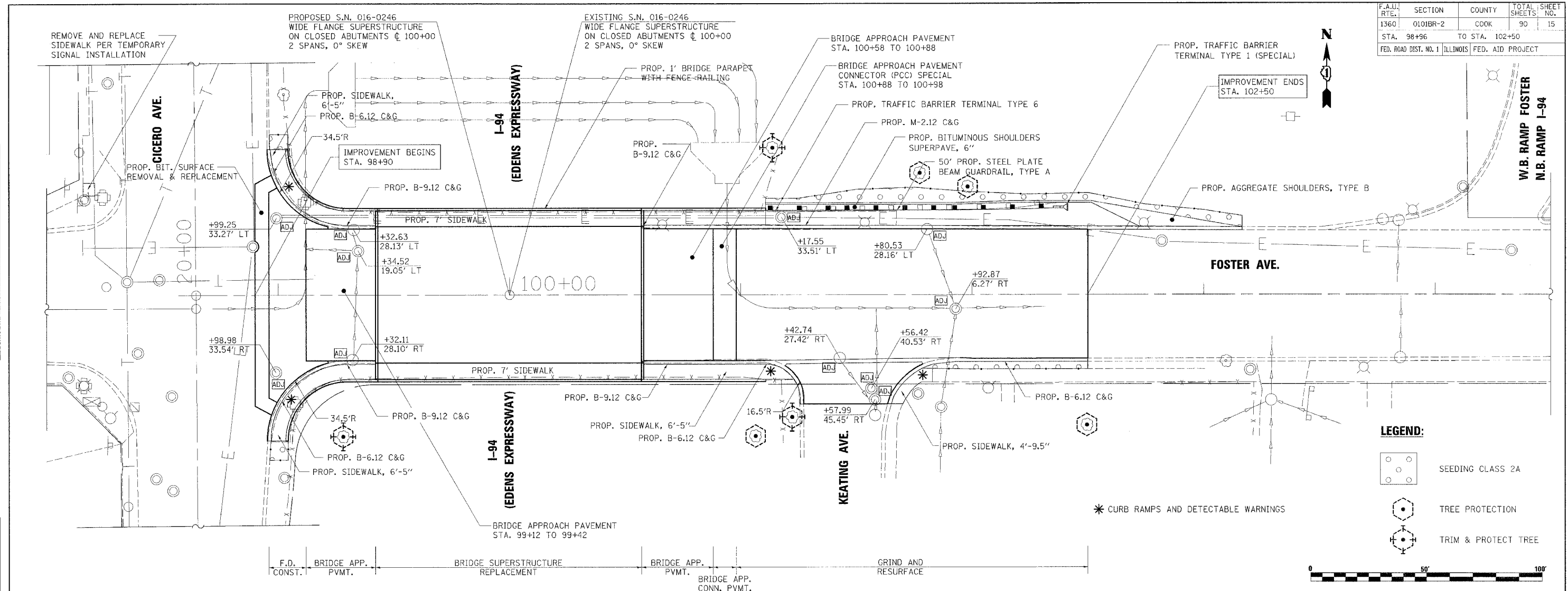
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101R-2	COOK	90	15
STA. 98+96		TO STA. 102+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

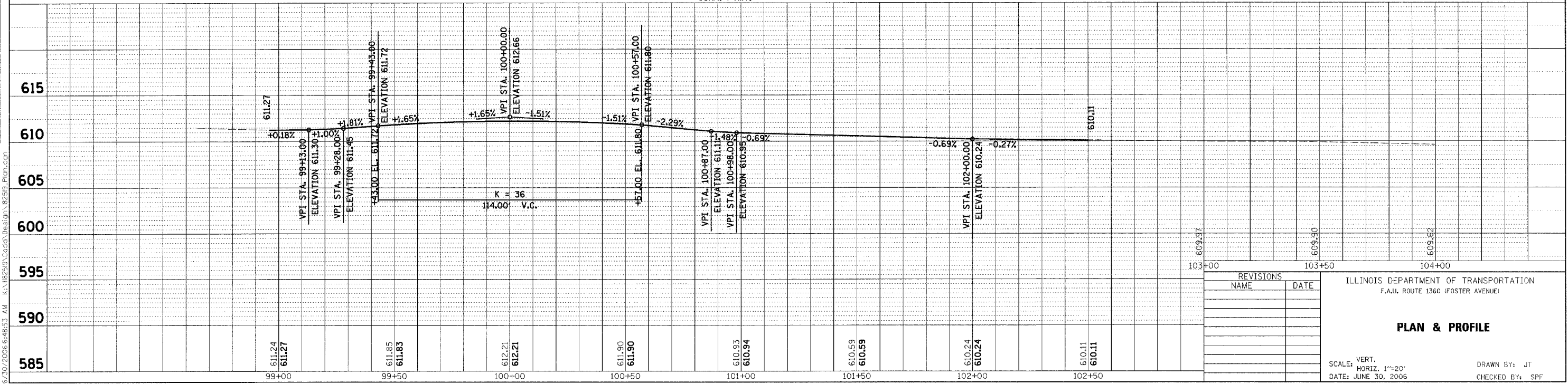
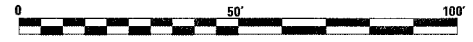


PLAN	DATE
BY: _____	_____
CHECKED: _____	_____
DATE: _____	_____

PROFILE	DATE
BY: _____	_____
CHECKED: _____	_____
DATE: _____	_____



- LEGEND:**
- SEEDING CLASS 2A
  - TREE PROTECTION
  - TRIM & PROTECT TREE
- \* CURB RAMPS AND DETECTABLE WARNINGS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. ROUTE 1360 (FOSTER AVENUE)

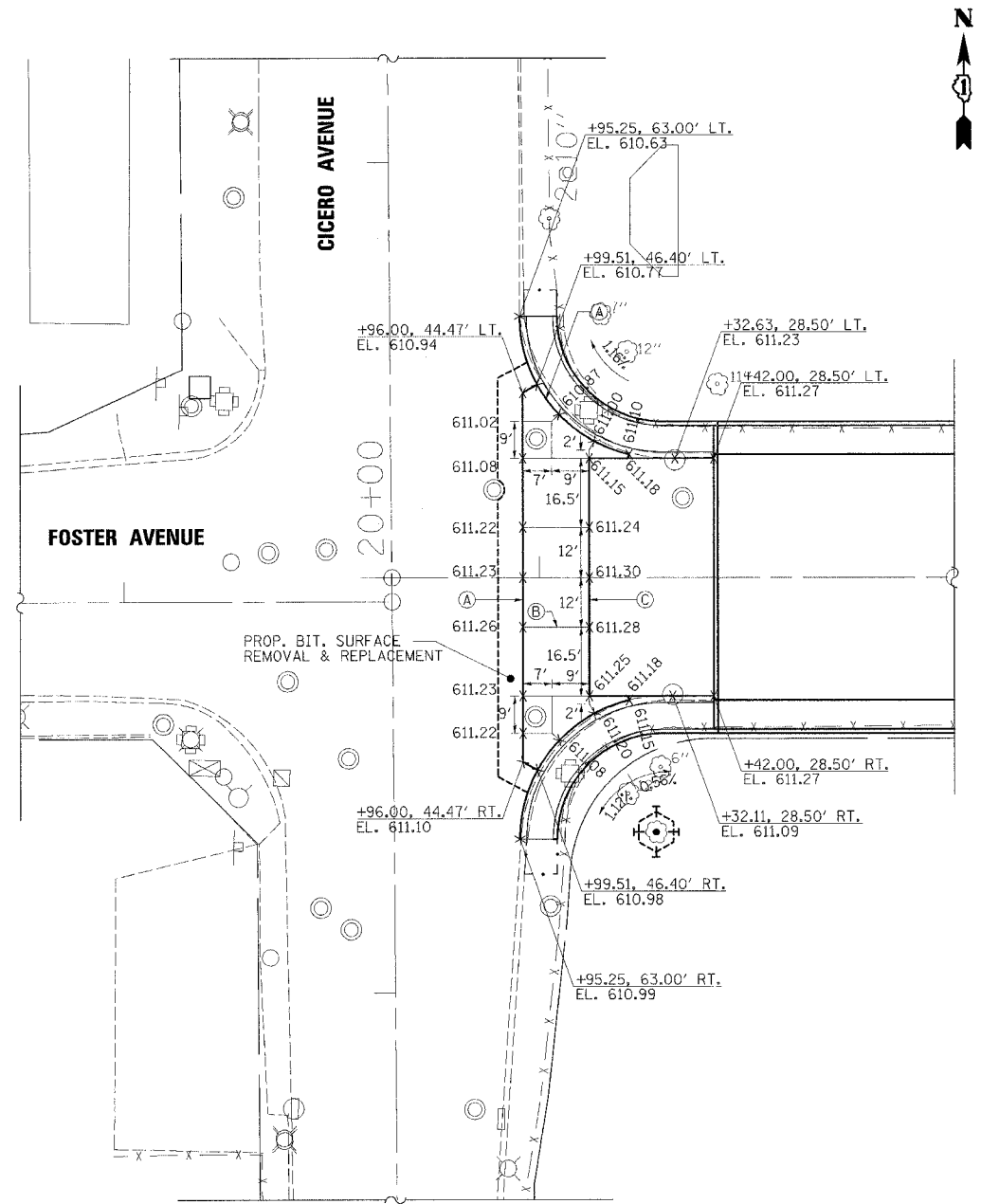
**PLAN & PROFILE**

SCALE: VERT. 1"=20'  
HORIZ. 1"=20'  
DATE: JUNE 30, 2006

DRAWN BY: JT  
CHECKED BY: SPF

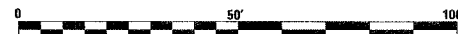
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	16
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				



**JOINT LEGEND**

- (A) CONSTRUCTION JOINT, NO. 8 DEFORMED EPOXY COATED TIE BARS, 2 FT LONG AT 2 FT CENTERS (DRILL AND GROUT). INCLUDED IN THE COST OF P.C.C. PAVEMENT (JOINTED).
- (B) SAWED LONGITUDINAL JOINT, NO. 6 DEFORMED EPOXY COATED TIE BARS, 30 IN. LONG AT 30 IN. CENTERS
- (C) 2 IN. WIDE EXPANSION JOINT



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 Wheaton, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.U. ROUTE 1360 (FOSTER AVENUE)

**INTERSECTION DETAILS & JOINTING PLAN**

SCALE: VERT.  
 HORIZ.  
 DATE: JUNE 30, 2006

DRAWN BY: TMM  
 CHECKED BY: SPF

6/30/2006 7:45:21 AM K:\1182519\Cadd\Design\1182519\_Intersection.dgn



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	17
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 60A65



REMOVE PAVEMENT MARKING LINE, 120'  
(WHITE, 6' SKIP-2' DASH)

REMOVE PAVEMENT MARKING LINE, 235'  
(WHITE, 18' SKIP-6' DASH)

REMOVE PAVEMENT MARKING LINE, 115'  
(WHITE)

REMOVE PAVEMENT MARKING LINE, 100'  
(WHITE, 18' SKIP-6' DASH)

REMOVE PAVEMENT MARKING LINE, 206'  
(WHITE, 18' SKIP-6' DASH)

REMOVE PAVEMENT MARKING LINE, 2 AT 203'  
(YELLOW)

REMOVE PAVEMENT MARKING LINE, 39'  
(WHITE)

REMOVE PAVEMENT MARKING LINE, 200'  
(WHITE, 18' SKIP-6' DASH)

REMOVE PAVEMENT MARKING LINE, 100'  
(WHITE)

REMOVE PAVEMENT MARKING, LETTERS AND SYMBOLS

REMOVE PAVEMENT MARKING, LETTERS AND SYMBOLS

REMOVE PAVEMENT MARKING LINE, 101'  
(WHITE, 6' SKIP-2' DASH)

**EXISTING PAVEMENT MARKING REMOVAL**

POLYUREA PAVEMENT MARKING LINE, 120'  
(WHITE, TYPE I, 6' SKIP-2' DASH, 6'')

POLYUREA PAVEMENT MARKING LINE, 235'  
(WHITE, TYPE I, 18' SKIP-6' DASH, 4'')

POLYUREA PAVEMENT MARKING LINE, 115'  
(WHITE, TYPE I, 6'')

POLYUREA PAVEMENT MARKING LINE, 100'  
(WHITE, TYPE I, 18' SKIP-6' DASH, 4'')

POLYUREA PAVEMENT MARKING LINE, 200'  
(WHITE, TYPE I, 18' SKIP-6' DASH, 4'')

POLYUREA PAVEMENT MARKING LINE, 2 AT 200'  
(YELLOW, TYPE I, 4'')

POLYUREA PAVEMENT MARKING LINE, 38'  
(WHITE, TYPE I, 24'')

POLYUREA PAVEMENT MARKING LINE, 100'  
(WHITE, TYPE I, 6'')

POLYUREA PAVEMENT MARKING LINE, 100'  
(WHITE, TYPE I, 6' SKIP-2' DASH, 6'')

**FINAL PAVEMENT MARKING**

TEMPORARY PAVEMENT MARKING LINE, 235'  
(WHITE, 18' SKIP-6' DASH, 4'')

TEMPORARY PAVEMENT MARKING LINE, 70'  
(WHITE, 6'')

TEMPORARY PAVEMENT MARKING LINE, 79', R=40'  
(WHITE, 6' SKIP-2' DASH, 6'')

TEMPORARY PAVEMENT MARKING, LETTERS AND SYMBOLS (TYP.)

TEMPORARY PAVEMENT MARKING LINE, 100'  
(WHITE, 6'')

TEMPORARY PAVEMENT MARKING LINE, 400'  
(WHITE, 18' SKIP-6' DASH, 4'')

TEMPORARY PAVEMENT MARKING LINE, 32'  
(WHITE, 6' SKIP-2' DASH, 6'')

TEMPORARY PAVEMENT MARKING LINE, 36'  
(WHITE, 24'')

TEMPORARY PAVEMENT MARKING, LETTERS AND SYMBOLS

TEMPORARY PAVEMENT MARKING LINE, 2 AT 200'  
(YELLOW, 4'')

**TEMPORARY PAVEMENT MARKING**

REMOVE TEMPORARY PAVEMENT MARKING LINE, 235'  
(WHITE, 18' SKIP-6' DASH, 4'')

REMOVE TEMPORARY PAVEMENT MARKING LINE, 70'  
(WHITE, 6'')

REMOVE TEMPORARY PAVEMENT MARKING LINE, 79', R=40'  
(WHITE, 6' SKIP-2' DASH, 6'')

REMOVE TEMPORARY PAVEMENT MARKING, LETTERS AND SYMBOLS

REMOVE TEMPORARY PAVEMENT MARKING LINE, 100'  
(WHITE, 6'')

REMOVE TEMPORARY PAVEMENT MARKING LINE, 200'  
(WHITE, 18' SKIP-6' DASH, 4'')

REMOVE TEMPORARY PAVEMENT MARKING LINE, 36'  
(WHITE, 24'')

REMOVE TEMPORARY PAVEMENT MARKING, LETTERS AND SYMBOLS

REMOVE TEMPORARY PAVEMENT MARKING LINE, 32'  
(WHITE, 6' SKIP-2' DASH, 6'')

REMOVE TEMPORARY PAVEMENT MARKING, LETTERS AND SYMBOLS

REMOVE TEMPORARY PAVEMENT MARKING LINE, 2 AT 200'  
(YELLOW, 4'')

**REMOVAL OF TEMPORARY PAVEMENT MARKING**

6/29/2006 3:35:51 PM K:\118258\road\design\18258\p\_PaveMark\_Temp.dgn

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200 West Front Street  
Wheaton, IL 60187

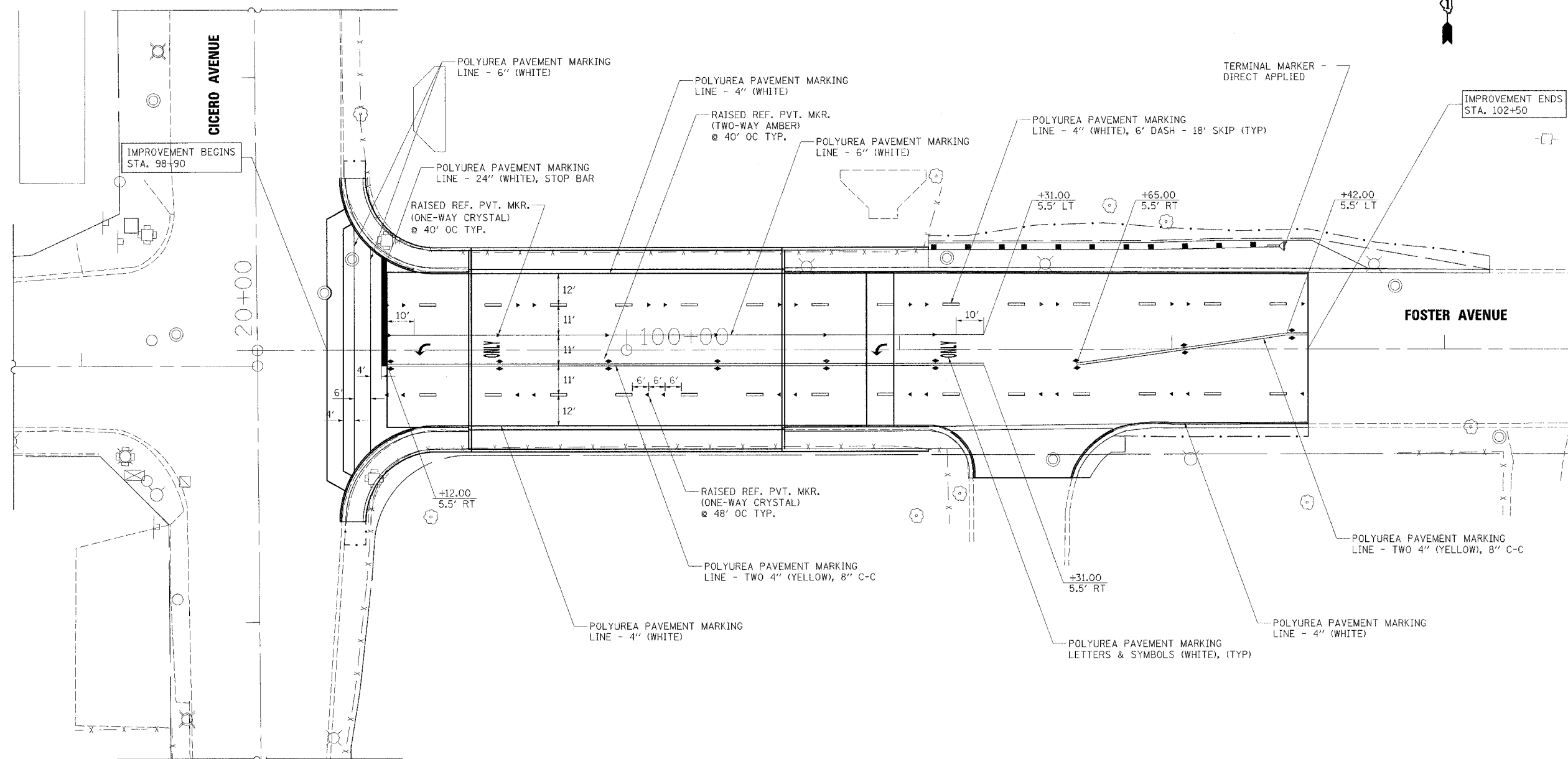
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. ROUTE 1360 (FOSTER AVENUE)

**TEMPORARY PAVEMENT MARKING PLAN**  
**FOSTER AVE. @ CICERO AVE.**

SCALE: VERT.      DRAWN BY: TMM  
          HORIZ.      CHECKED BY: SPF  
DATE: JUNE 30, 2006

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	18
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				



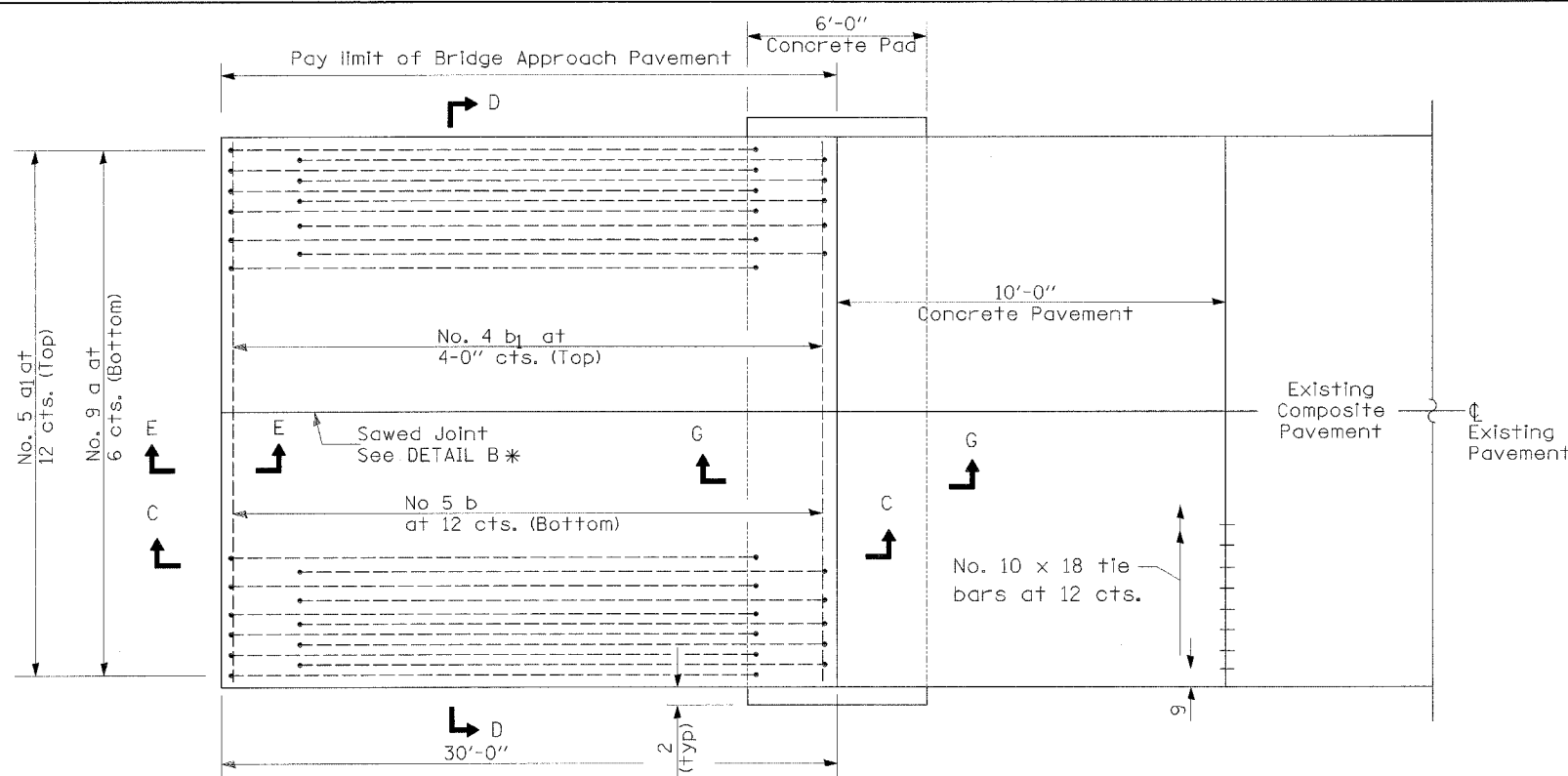
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<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<b>REVISIONS</b> NAME      DATE		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.U. ROUTE 1360 (FOSTER AVENUE)  <b>PAVEMENT MARKING PLAN</b>  SCALE: VERT.      DRAWN BY: NEC HORIZ.              CHECKED BY: SPF DATE: JUNE 30, 2006

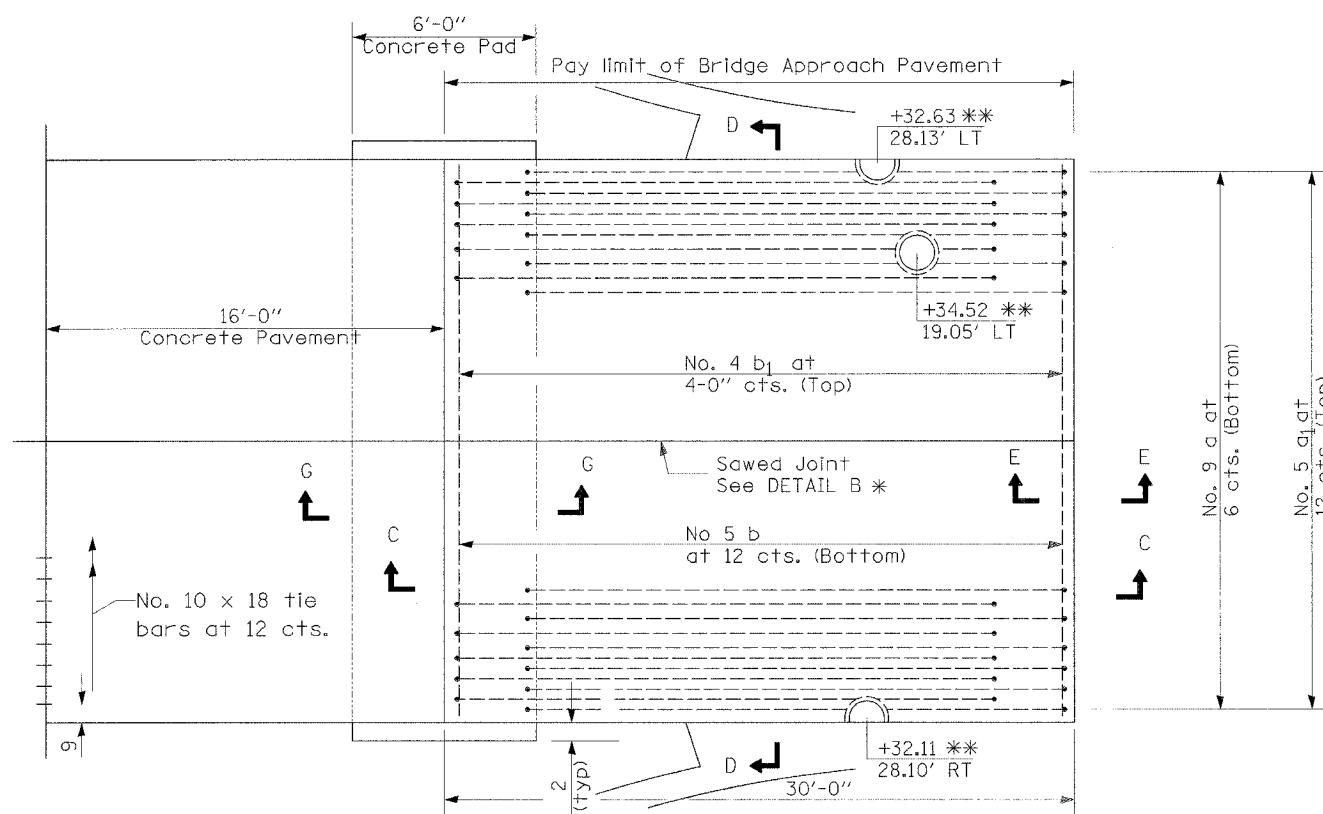
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	19
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 60A65



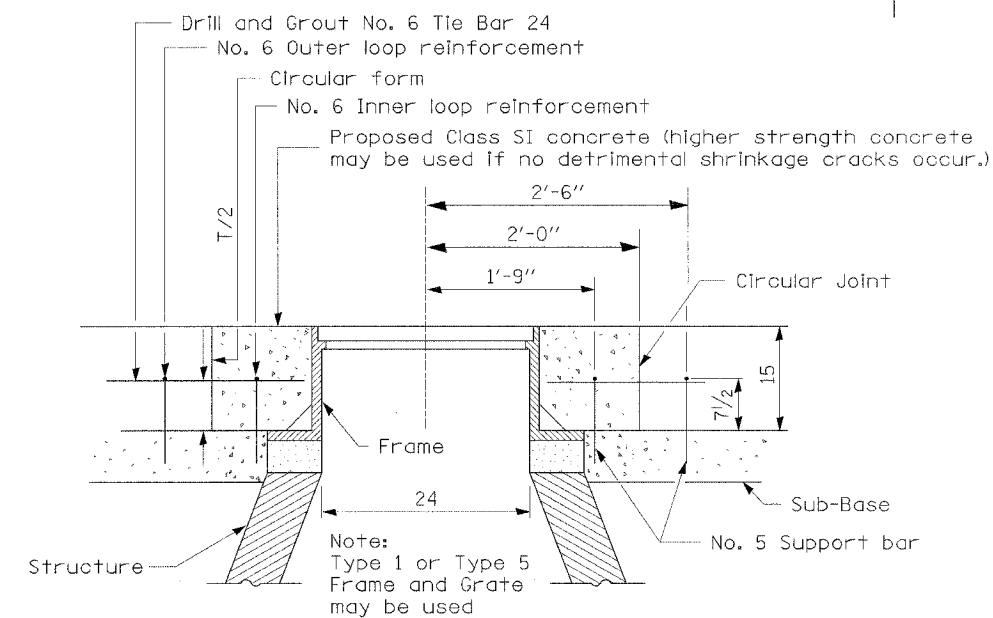
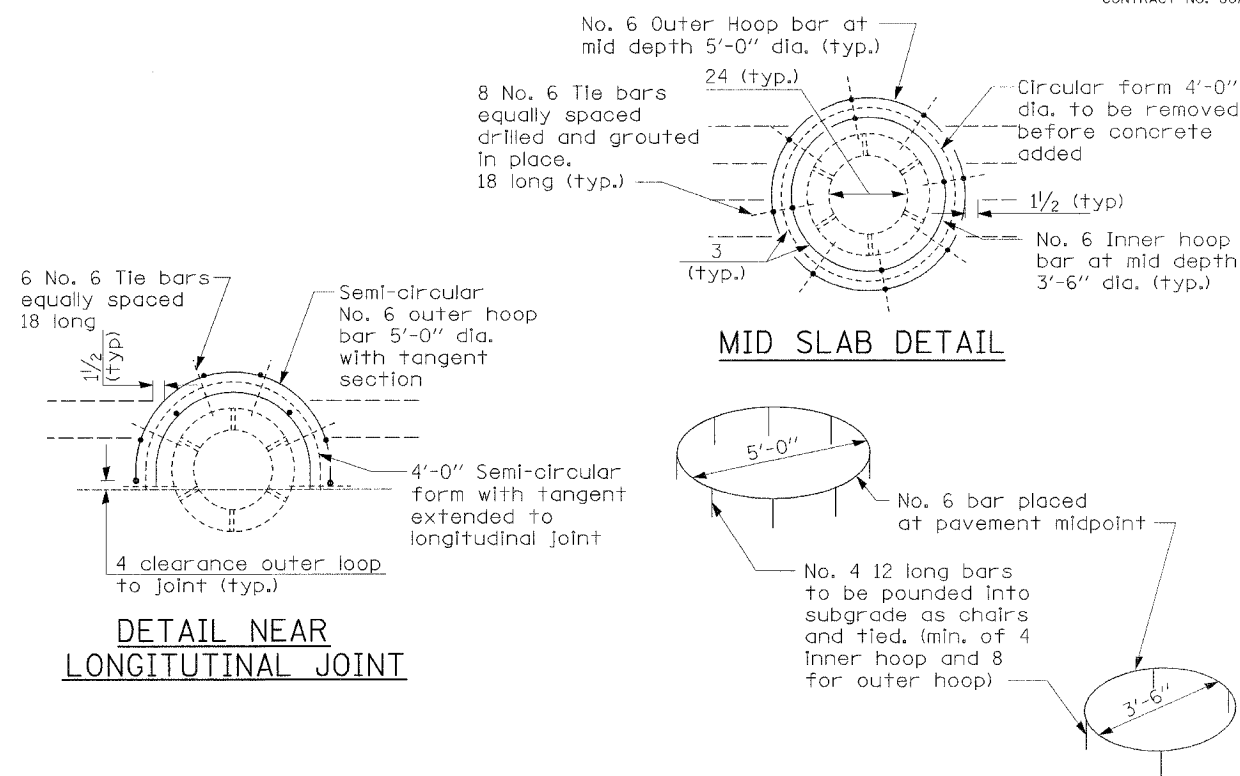
PLAN (EAST APPROACH)

\* Saw  $\phi$  or lane edge if poured two or more lane widths at a time.



PLAN (WEST APPROACH)

\* Saw  $\phi$  or lane edge if poured two or more lane widths at a time.  
 \*\* Verify measurements in field.

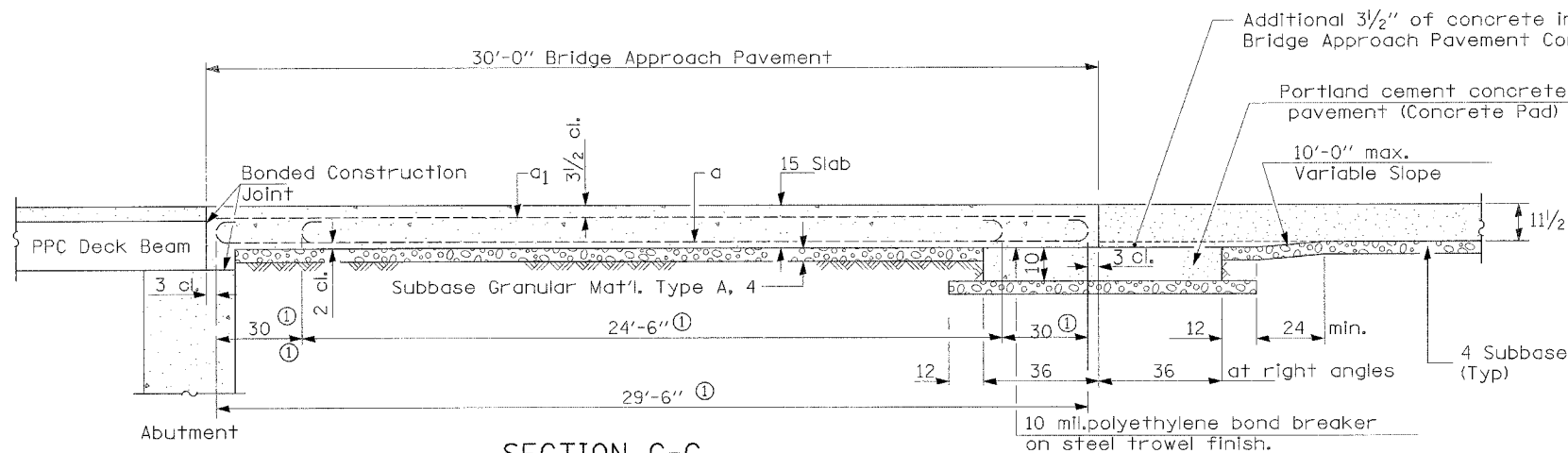


DETAIL OF REINFORCEMENT FOR PAVEMENT ROUNDOUT

All dimensions are in inches unless otherwise shown.

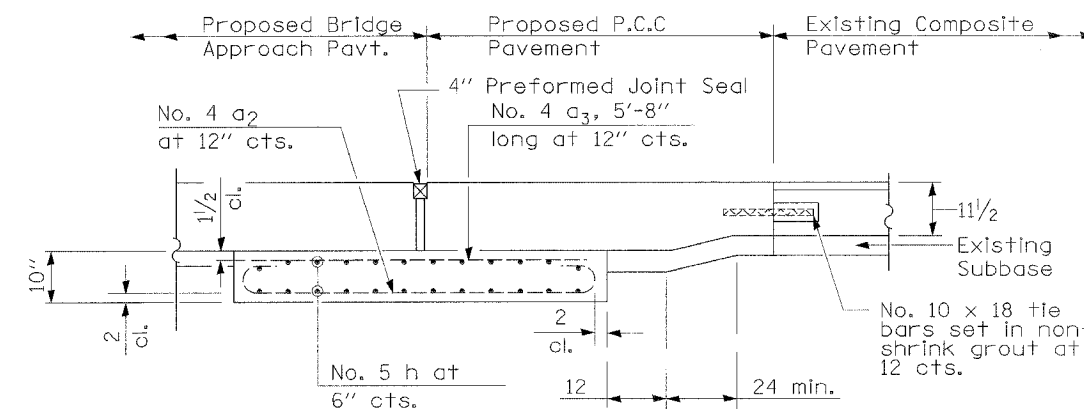
<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS		NAME	DATE																					<p>ILLINOIS DEPARTMENT OF TRANSPORTATION          F.A.U. ROUTE 1360 (FOSTER AVENUE)</p> <p><b>BRIDGE APPROACH          PAVEMENT DETAILS</b></p> <p>SCALE: VERT.     DRAWN BY: NEC          HORIZ.             CHECKED BY: SPF          DATE: JUNE 30, 2006</p>
	REVISIONS																									
NAME	DATE																									

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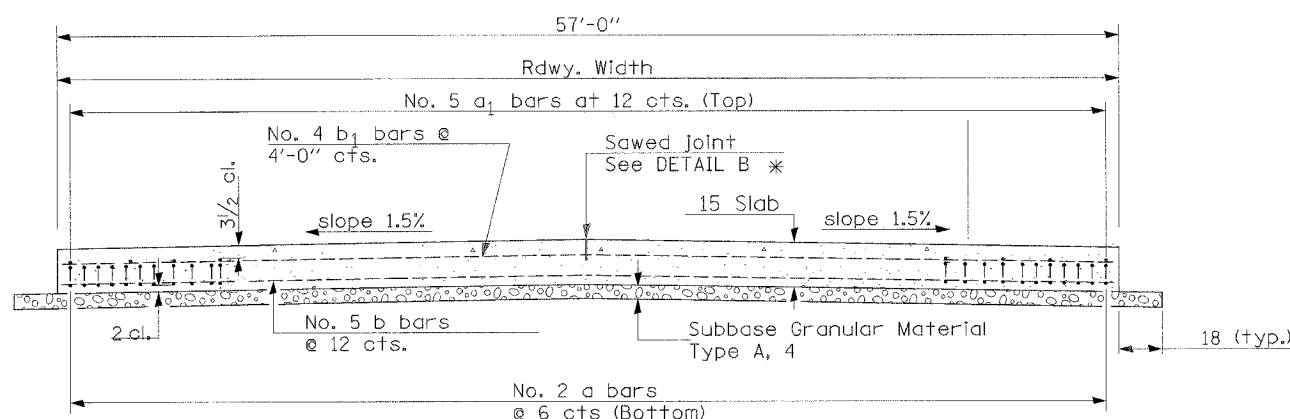
**SECTION C-C**

(1) Stagger No. 9 a bars as shown on plan - full width



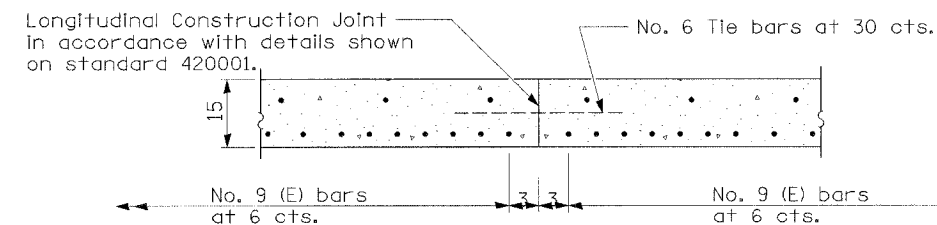
**SECTION G-G - RIGID PAVEMENT**

(Showing reinforcement)



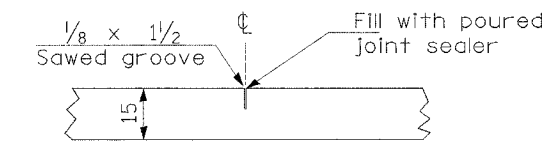
**SECTION D-D**

(See Plan for Dimensions not shown)  
All reinforcement bars shall be epoxy coated.



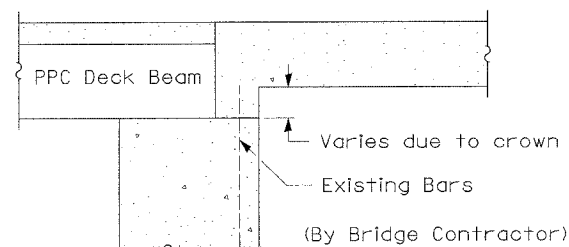
**OPTIONAL LONGITUDINAL CONSTRUCTION JOINT**

As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.

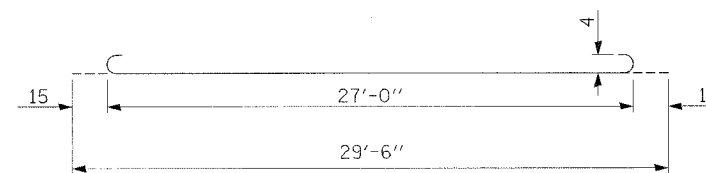
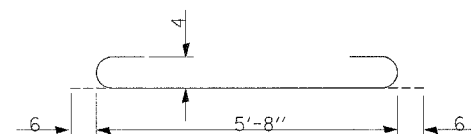


**DETAIL B\***

(Reinforcement Not Shown)



**SECTION E-E**



**DESIGN STRESSES**

f<sub>y</sub> = 60,000 p.s.i.  
f'<sub>c</sub> = 3,500 p.s.i.  
n = 8.5

All dimensions are in inches unless otherwise shown.

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200 West Front Street  
Wheaton, IL 60187

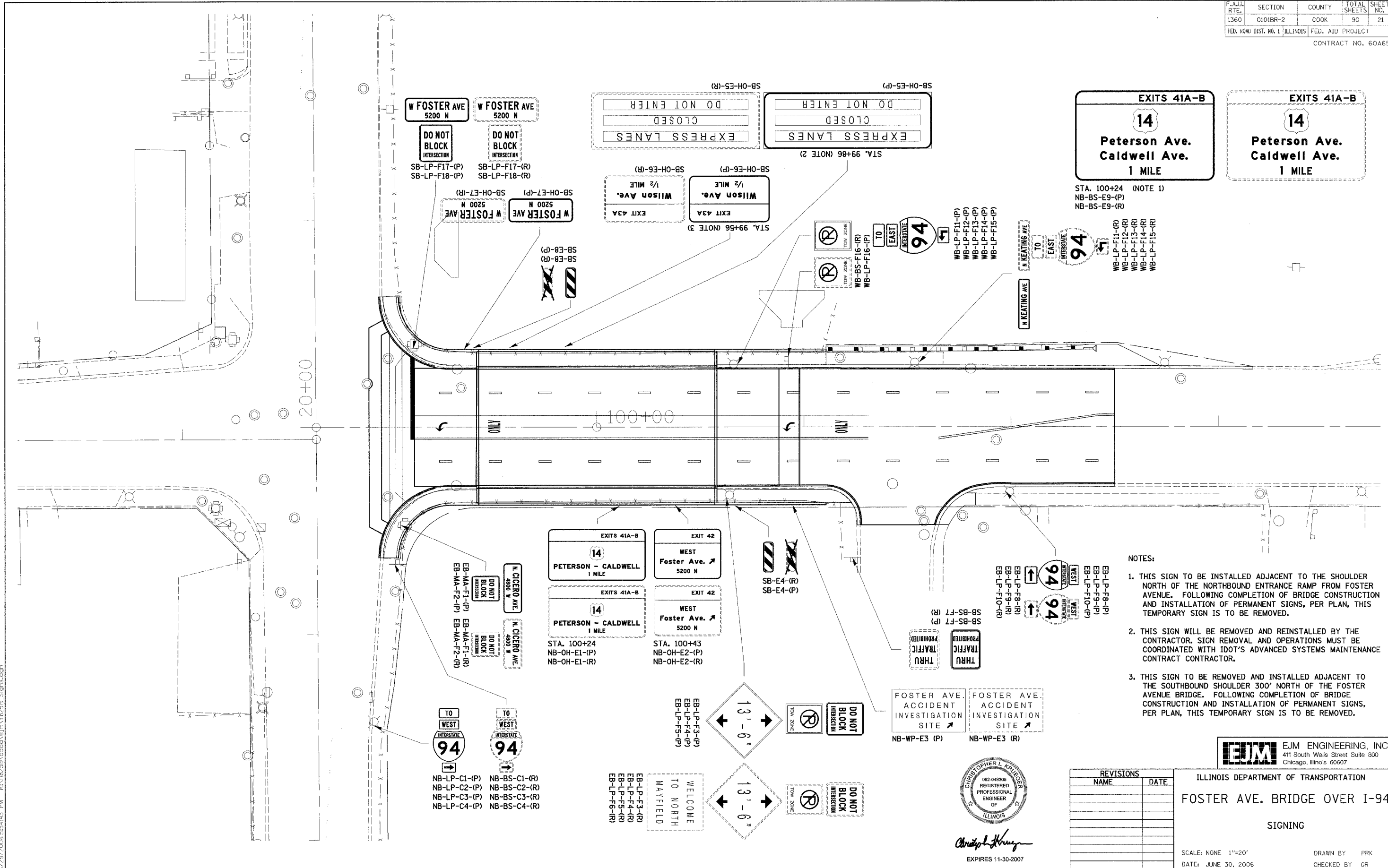
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. ROUTE 1360 (FOSTER AVENUE)

**BRIDGE APPROACH PAVEMENT DETAILS**

SCALE: VERT.      DRAWN BY: NEC  
                  HORIZ.      CHECKED BY: SPF  
DATE: JUNE 30, 2006

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- NOTES:
- THIS SIGN TO BE INSTALLED ADJACENT TO THE SHOULDER NORTH OF THE NORTHBOUND ENTRANCE RAMP FROM FOSTER AVENUE. FOLLOWING COMPLETION OF BRIDGE CONSTRUCTION AND INSTALLATION OF PERMANENT SIGNS, PER PLAN, THIS TEMPORARY SIGN IS TO BE REMOVED.
  - THIS SIGN WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR. SIGN REMOVAL AND OPERATIONS MUST BE COORDINATED WITH IDOT'S ADVANCED SYSTEMS MAINTENANCE CONTRACTOR.
  - THIS SIGN TO BE REMOVED AND INSTALLED ADJACENT TO THE SOUTHBOUND SHOULDER 300' NORTH OF THE FOSTER AVENUE BRIDGE. FOLLOWING COMPLETION OF BRIDGE CONSTRUCTION AND INSTALLATION OF PERMANENT SIGNS, PER PLAN, THIS TEMPORARY SIGN IS TO BE REMOVED.

CHRISTOPHER L. KRUEGER  
 052-043206  
 REGISTERED  
 PROFESSIONAL  
 ENGINEER  
 OF  
 ILLINOIS  
 Christopher Krueger  
 EXPIRES 11-30-2007

REVISIONS	
NAME	DATE

**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 800  
 Chicago, Illinois 60607

ILLINOIS DEPARTMENT OF TRANSPORTATION

**FOSTER AVE. BRIDGE OVER I-94**

SIGNING

SCALE: NONE 1"=20'  
 DATE: JUNE 30, 2006

DRAWN BY PRK  
 CHECKED BY CR

6/29/2006 5:54:43 PM ka:\118259\cadd\signs\118259\_sigsms.dgn

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	22
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				

Exit 42  
**WEST Foster Ave**  
 5200N ↗

SIGN TO BE REMOVED DURING FOSTER BRIDGE CONSTRUCTION

FOSTER AVENUE

**FOSTER RAMP CLOSED**

NEW SIGN

LAWRENCE AVENUE

Exit 42  
**WEST Foster Ave**  
 1/2 MILE

**EXIT CLOSED**

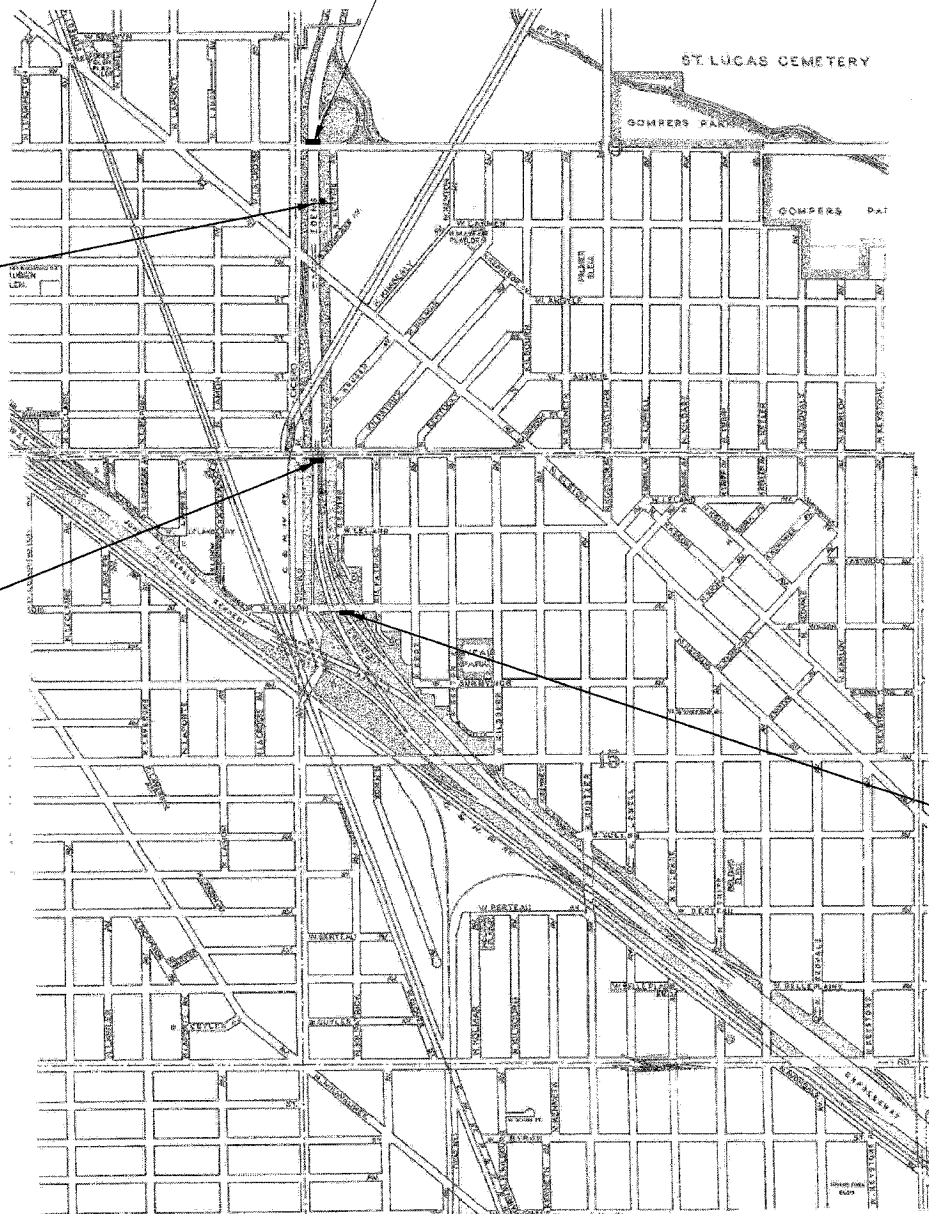
E5-2a  
 BLACK ON ORANGE

WILSON AVENUE

Exit 42  
**WEST Foster Ave**  
 3/4 MILE

**EXIT CLOSED**

E5-2a  
 BLACK ON ORANGE



6/29/2006 6:43:37 PM K:\1182519\Cadd\EA\Added\_Signs.sgn

**EJM** EJM ENGINEERING, INC.  
 411 South Wells Street Suite 800  
 Chicago, Illinois 60607

REVISIONS	NAME	DATE

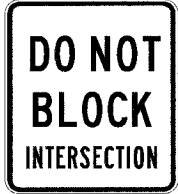
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FOSTER AVE. BRIDGE OVER I-94

ADDITIONAL GUIDE SIGNS

SCALE: 1" = 20'  
 DATE: JUNE 30, 2006

DRAWN BY PRK  
 CHECKED BY GK

**SIGN DETAIL**  
1:10




SIGN NUMBER	name
WIDTH x HEIGHT	2'-0" x 2'-4"
BORDER WIDTH	0.63"
CORNER RADIUS	1.75"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	X	Y	WD	HT

Panel Style: regulatory.ssi  
Dimensions are in inches tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
D	O											6.8	C4.8
3.6	6.7												
N	O	T										6.7	C4.8
12.1	15.4	19.3											
B	L	O	C	K								16.6	C4.8
4	7.6	10.6	14.2	17.9									
I	N	T	E	R	S	E	C	T	I	O	N		19.2
3.1	4	5.7	7.3	8.9	10.3	12.4	13.7	15.5	17.1	17.8	20		

**SIGN DETAIL**  
1:10




SIGN NUMBER	name
WIDTH x HEIGHT	4'-0" x 1'-6"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WD	HT

Panel Style: guide\_fw\_advance.ssi  
Dimensions are in inches tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
N												3.9	C4.5
3.3	6.1												
C	I	C	E	R	O							22.6	C6
9.5	13.8	15.8	20.2	24.2	28.4								
A	V	E										10.4	C4.5
34.7	37.8	41.3	44										
4	8	0	0	W								18.3	C4
14.7	17.6	20.5	23.4	26	29.9								

**SIGN DETAIL**  
1:10




SIGN NUMBER	name
WIDTH x HEIGHT	4'-0" x 1'-6"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WD	HT

Panel Style: guide\_fw\_advance.ssi  
Dimensions are in inches tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
N												3.9	C4.5
3.3	6.1												
C	I	C	E	R	O							22.6	C6
9.5	13.8	15.8	20.2	24.2	28.4								
A	V	E										10.4	C4.5
34.7	37.8	41.3	44										
4	8	0	0	W								18.3	C4
14.7	17.6	20.5	23.4	26	29.9								

**SIGN DETAIL**  
1:10



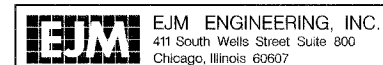
SIGN NUMBER	name
WIDTH x HEIGHT	4'-0" x 1'-6"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WD	HT

Panel Style: guide\_fw\_advance.ssi  
Dimensions are in inches tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
N												3.9	C4.5
3.3	6.1												
C	I	C	E	R	O							22.6	C6
9.5	13.8	15.8	20.2	24.2	28.4								
A	V	E										10.4	C4.5
34.7	37.8	41.3	44										
4	8	0	0	W								18.3	C4
14.7	17.6	20.5	23.4	26	29.9								

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FOSTER AVE. BRIDGE OVER I-94  
SIGN DETAIL SHEETS  
SHEET 1 OF 3  
SCALE: NONE 1"=20'  
DATE: JUNE 30, 2006

REVISIONS	
NAME	DATE

DRAWN BY PRK  
CHECKED BY GR

SIGN DETAIL  
140

EXITS 41A-B



Peterson Ave.  
Caldwell Ave.  
1 MILE

SIGN NUMBER	name			
WIDTH x HGT.	14'-0" x 6'-0"			
BORDER WIDTH	1.75"			
CORNER RADIUS	9"			
MOUNTING	Overhead			
BACKGROUND	TYPE:	Reflective		
	COLOR:	Green/Green		
LEGEND/BORDER	TYPE:	Reflective		
	COLOR:	Black/White /White		

SYMBOL	X	Y	WD	HT
ML_4	89.8	66.2	30.4	30.4

Panel Style: guide\_exp\_advance\_b.ssi  
Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE			
E	X	I	T	S	A	I	A	-	B						
77.1	84.7	93.2	96.3	103.7	110.2	118.2	127.1	131.6	141.7	149.8		ES			
P	e	t	e	r	s	o	n	-	A	v	e	108.1	EM107.5		
31.3	41.6	50.2	57.4	67	78	81.6	91.3	97.8	107.7	118.3	126.6	136.3			
C	a	i	d	w	e	i	i	A	v	e		EM107.5			
30.2	40.8	51.1	55.9	65.3	77.1	88.7	92.4	94.4	104.3	115.9	125.2	132.9			
1		M	I	L	E										
65.4	68	79	87.7	91.1	97.9									D10,D8.6	

SIGN DETAIL  
140

EXIT 42

WEST  
Foster Ave. ↗  
5200 N

SIGN NUMBER	name			
WIDTH x HGT.	12'-0" x 6'-0"			
BORDER WIDTH	2"			
CORNER RADIUS	9"			
MOUNTING	Overhead			
BACKGROUND	TYPE:	Reflective		
	COLOR:	Green/Green		
LEGEND/BORDER	TYPE:	Reflective		
	COLOR:	White /White		

SYMBOL	X	Y	WD	HT
ARMED	118.5	32.1	10.1	15.8


Panel Style: guide\_exp\_advance\_b.ssi  
Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE
E	X	I	T		A	I	A					
81	88.6	97.1	100.1	108.1	114	123						ES
W	E	S	T									D10
55.9	66.5	74.5	83.1									33.4
F	o	s	t	e	r	A	v	e				EM108.1
13.2	22.5	31.7	40.7	48.6	58.9	64.2	74.0	87.4	97.6	105.9		
5		Z	O	O		N						D8.6
49	58.4	63.8	71.5	77.6	86.2							43.1

SIGN DETAIL  
140

EXITS 41A-B



PETERSON - CALDWELL  
1 MILE

SIGN NUMBER	name			
WIDTH x HGT.	17'-0" x 6'-0"			
BORDER WIDTH	2"			
CORNER RADIUS	9"			
MOUNTING	Overhead			
BACKGROUND	TYPE:	Reflective		
	COLOR:	Green/Green		
LEGEND/BORDER	TYPE:	Reflective		
	COLOR:	White /White		

SYMBOL	X	Y	WD	HT
ML_4	90	43	30.1	30.1

Panel Style: guide\_exp\_advance\_b.ssi  
Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE									
E	X	I	T	S	A	I	A	-	B												
65.4	73	81.5	84.5	92.1	98.5	106.4	115.5	119.9	130	138.1		ES									
P	E	T	E	R	S	O	N	-	C	A	L	D	W	E	L	L	184.2	EM10			
12.9	23.4	32.2	41.6	51	61	71.1	81.9	89.9	99.9	107.4	117.4	126.7	136.8	148.2	158.3	170.6	180.2	189.6			
I		M	I	L	E																
87.5	89.7	98.2	106.9	110.3	117.2																

SIGN DETAIL  
140

EXIT 43A

Wilson Ave.  
1/2 MILE

SIGN NUMBER	name			
WIDTH x HGT.	12'-0" x 7'-0"			
BORDER WIDTH	2"			
CORNER RADIUS	9"			
MOUNTING	Overhead			
BACKGROUND	TYPE:	Reflective		
	COLOR:	Green/Green		
LEGEND/BORDER	TYPE:	Reflective		
	COLOR:	White /White		

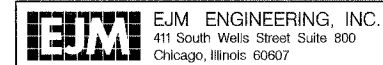
SYMBOL	X	Y	WD	HT

Panel Style: guide\_exp\_advance\_b.ssi  
Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE
E	X	I	T		A	I	A					
70.8	78.3	86.8	89.9	95.8	103.7	112.7	121.2					ES
W	I	I	S	O	N	A	V	E				EM108.1
24.2	38.3	44.6	49.6	55.8	69.3	76.2	87	99.5	109.6	118		
M	I	L	E									D8.6
73.1	81.8	85.1	92									24.3
12												D10.6
47.8												14.2

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
FOSTER AVE. BRIDGE OVER I-94  
SIGN DETAIL SHEET  
SHEET 2 OF 3  
SCALE: NONE 1"=20'  
DATE: JUNE 30, 2006

REVISIONS	NAME	DATE

DRAWN BY PRK  
CHECKED BY GR



**SIGN DETAIL**  
140

**EXPRESS LANES**

**EXPRESS LANES**

**CLOSED**

**DO NOT ENTER**

SIGN NUMBER	name
WIDTH x HEIGHT	15'-0" x 6'-0"
BORDER WIDTH	1.75"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: Green
	TYPE: Reflective
	COLOR: Black/White

SYMBOL	X	Y	WID	HT

Panel Style: guide\_exp\_advance\_b.ssi  
Dimensions are in inches tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
E	X	P	R	E	S	S	L	A	N	E	S			D10
42.3	52.5	63.3	75.3	87.2	97.5	108.3	115.1	125.1	132.8	145.1	157	167.3		131.8
C	L	O	S	E	D									E10
74.4	89.9	98.8	111.6	125.2	137.1									70.8
D	O	N	O	T	E	N	T	E	R					E10
41.6	54.1	62.5	72.4	80	96.8	106.2	118.2	126.1	140.8	152.5	164.4			130.9

**SIGN DETAIL**  
130

**THRU**

**TRAFFIC**

**PROHIBITED**

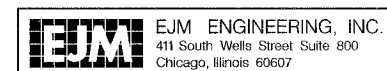
SIGN NUMBER	name
WIDTH x HEIGHT	1'-0" x 2'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.75"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: White
	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	X	Y	WID	HT

Panel Style: regulatory.ssi  
Dimensions are in inches tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
T	H	R	U											C4
3.5	6.2	9.2	12.2											11.1
T	R	A	F	F	I	C								B4
1.8	4	6.2	9	11.1	13.1	14.4								14.3
P	R	O	H	I	B	I	T	E	D					B3
1.8	3.2	4.8	6.5	8.0	9.6	11.4	12.2	13.8	15.3					15.5

6/29/2006 5:54:46 PM K:\1182510\cadd\ave\m\1182510\_Signs4.dgn



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FOSTER AVE. BRIDGE OVER I-94**

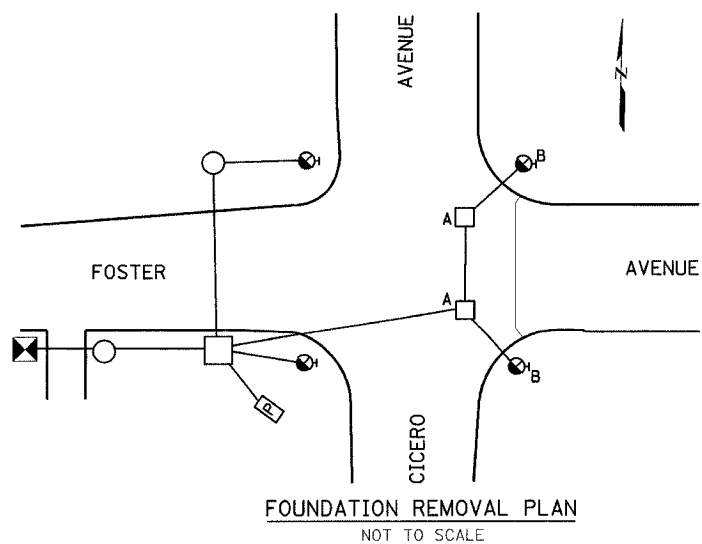
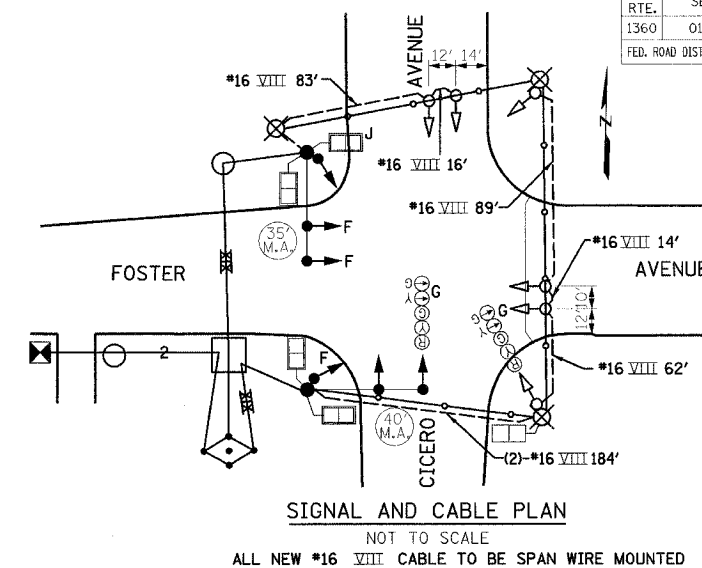
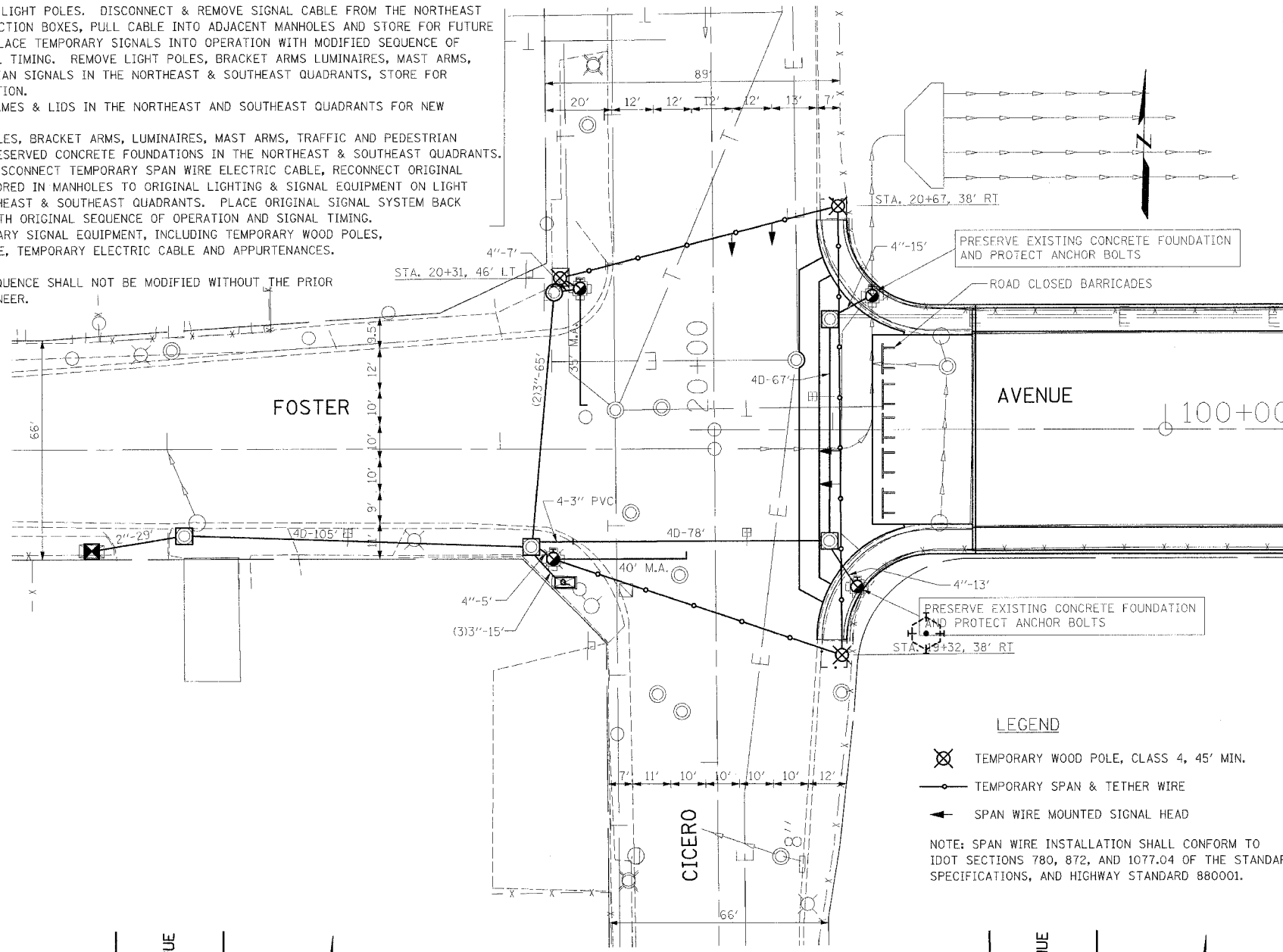
SIGN DETAIL SHEET  
SHEET 3 OF 3

SCALE: NONE 1"=20'      DRAWN BY: PRK  
DATE: JUNE 30, 2006      CHECKED BY: CR

**SIGNAL CONSTRUCTION SEQUENCE**

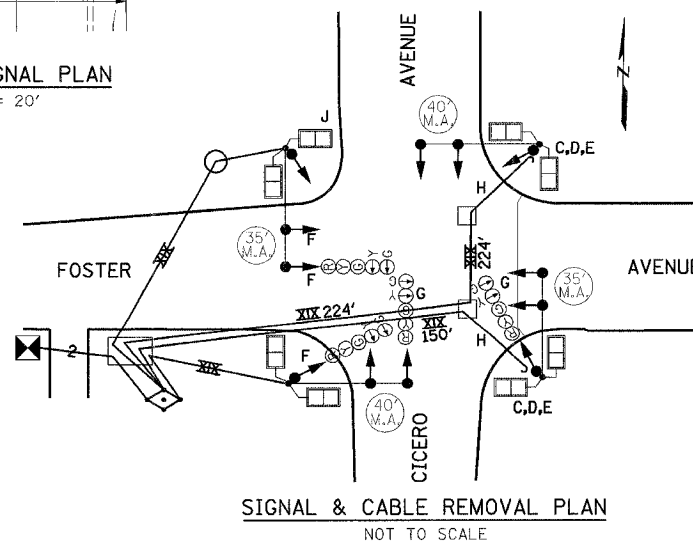
1. INSTALL TEMPORARY WOOD POLES, SPAN & TETHER WIRE SIGNAL HEADS, ELECTRIC CABLE.
2. TURN OFF SIGNAL, CONNECT TEMPORARY SPAN WIRE CABLE TO SIGNAL JUNCTION BOXES ON NORTH-WEST & SOUTHWEST LIGHT POLES. DISCONNECT & REMOVE SIGNAL CABLE FROM THE NORTHEAST AND SOUTHEAST JUNCTION BOXES, PULL CABLE INTO ADJACENT MANHOLES AND STORE FOR FUTURE REINSTALLATION. PLACE TEMPORARY SIGNALS INTO OPERATION WITH MODIFIED SEQUENCE OF OPERATION & SIGNAL TIMING. REMOVE LIGHT POLES, BRACKET ARMS LUMINAIRES, MAST ARMS, TRAFFIC & PEDESTRIAN SIGNALS IN THE NORTHEAST & SOUTHEAST QUADRANTS, STORE FOR FUTURE REINSTALLATION.
3. ADJUST MANHOLE FRAMES & LIDS IN THE NORTHEAST AND SOUTHEAST QUADRANTS FOR NEW APPROACH SLAB.
4. REINSTALL LIGHT POLES, BRACKET ARMS, LUMINAIRES, MAST ARMS, TRAFFIC AND PEDESTRIAN SIGNALS ON THE PRESERVED CONCRETE FOUNDATIONS IN THE NORTHEAST & SOUTHEAST QUADRANTS.
5. TURN OFF SIGNAL, DISCONNECT TEMPORARY SPAN WIRE ELECTRIC CABLE, RECONNECT ORIGINAL ELECTRIC CABLE STORED IN MANHOLES TO ORIGINAL LIGHTING & SIGNAL EQUIPMENT ON LIGHT POLES IN THE NORTHEAST & SOUTHEAST QUADRANTS. PLACE ORIGINAL SIGNAL SYSTEM BACK INTO OPERATION, WITH ORIGINAL SEQUENCE OF OPERATION AND SIGNAL TIMING.
6. REMOVE ALL TEMPORARY SIGNAL EQUIPMENT, INCLUDING TEMPORARY WOOD POLES, SPAN & TETHER WIRE, TEMPORARY ELECTRIC CABLE AND APPURTENANCES.

THIS CONSTRUCTION SEQUENCE SHALL NOT BE MODIFIED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.



**REMOVAL NOTES:**

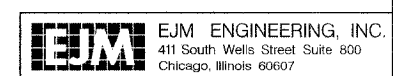
- A - ADJUST EXISTING MANHOLE FRAME & LID
  - B - PRESERVE EXISTING CONCRETE FOUNDATION AND PROTECT ANCHOR BOLTS
  - C - REMOVE EXISTING MAST ARM ASSEMBLY
  - D - REMOVE EXISTING SIGNAL HEADS
  - E - REMOVE EXISTING PEDESTRIAN HEADS
  - F - COVER AND DE-ENERGIZE WB SIGNAL HEAD DURING CONSTRUCTION
  - G - COVER AND DE-ENERGIZE SB TURN ARROWS DURING CONSTRUCTION.
  - H - PULL ELECTRICAL CABLE BACK TO MANHOLE, DE-ENERGIZE, STORE
  - J - COVER AND DE-ENERGIZE PEDESTRIAN SIGNAL HEAD
- ITEMS C,D,E; REMOVE AND STORE FOR REINSTALLATION



BILL OF MATERIAL		
TEMPORARY TRAFFIC SIGNAL INSTALLATION		
	UNIT	QTY
TEMPORARY WOOD POLE, 45 FT., CLASS 4	EACH	1
TEMPORARY WOOD POLE, 45 FT., CLASS 4, 15 FT. MAST ARM	EACH	2
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC	FOOT	30
SERVICE ENTRANCE ON POLE TOP, 2"	EACH	2
SIGNAL HD, POLYCARB., LED, 3-SECT., BRKT MNTD	EACH	1
SIGNAL HD, POLYCARB., LED, 3-SECT., SPAN WIRE MNTD	EACH	4
SIGNAL HEAD, POLYCARB., LED, 5-SECT., BRKT MNTD	EACH	1
PEDESTRIAN SIGNAL, POLYCARB., LED, 1-FACE, BRKT MNTD	EACH	1
SPAN WIRE AND TETHER WIRE	FOOT	333
HARNES CABLE, AERIAL SUSPENDED, NO. 16 8/C	FOOT	448
MODIFY EXISTING CONTROLLER	EACH	1
SPAN WIRE ACCESSORIES	EACH	1



Expires 11-30-2007

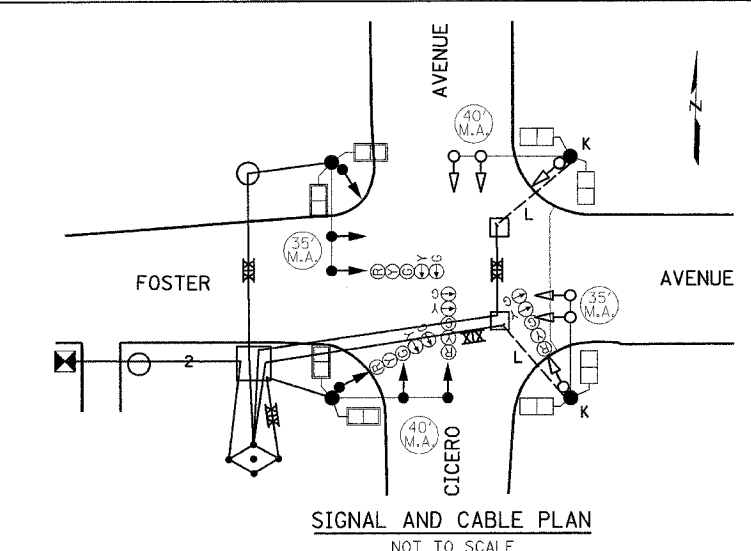
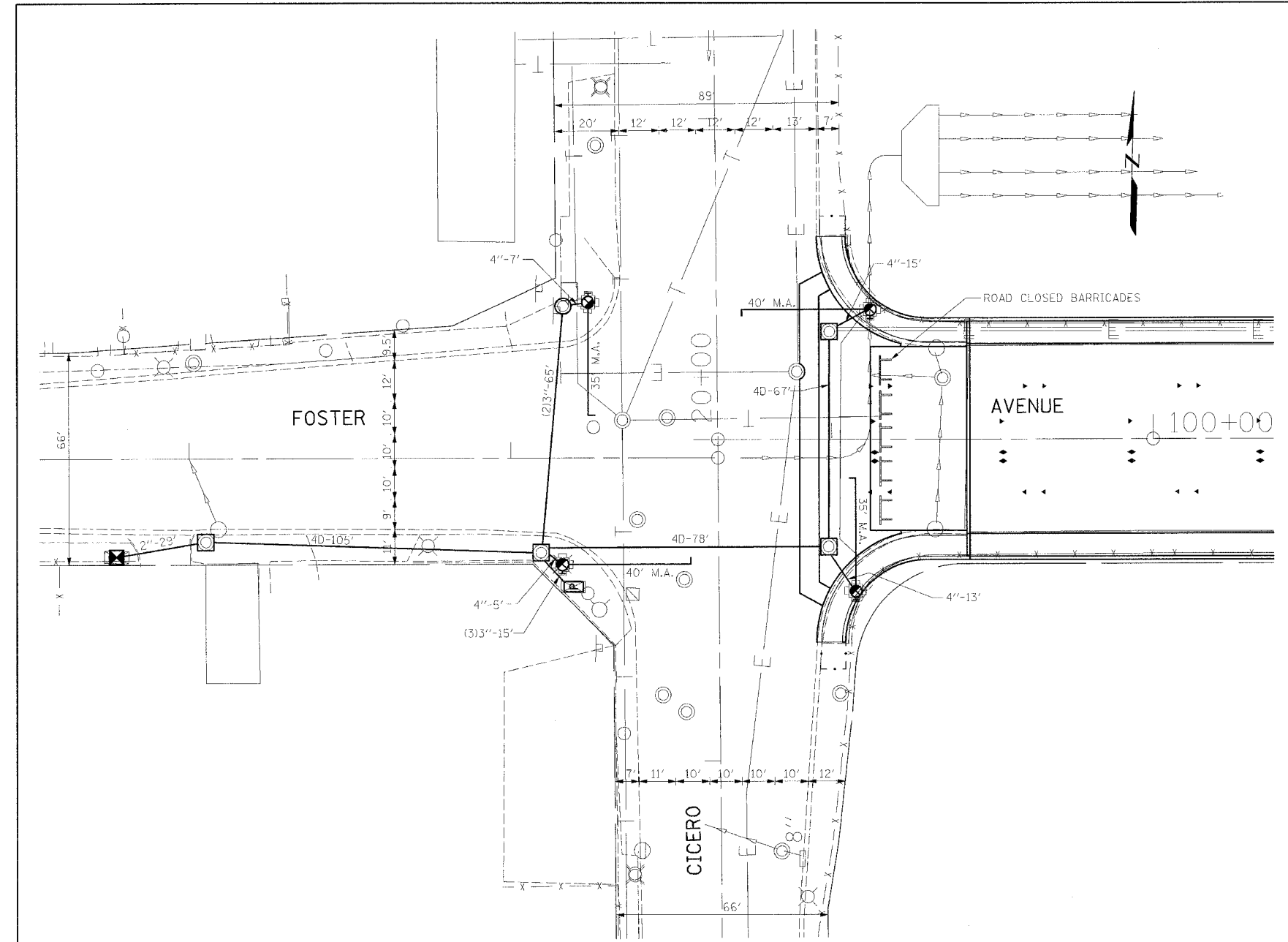


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FOSTER AVE. BRIDGE OVER I-94**  
 TEMPORARY TRAFFIC SIGNAL INSTALLATION  
 N. CICERO AVENUE & W. FOSTER AVENUE  
 DRAWING No. 12867 (TEMPORARY)

SCALE: AS NOTED  
 DATE: JUNE 30, 2005  
 DRAWN BY: PRK  
 CHECKED BY: JM

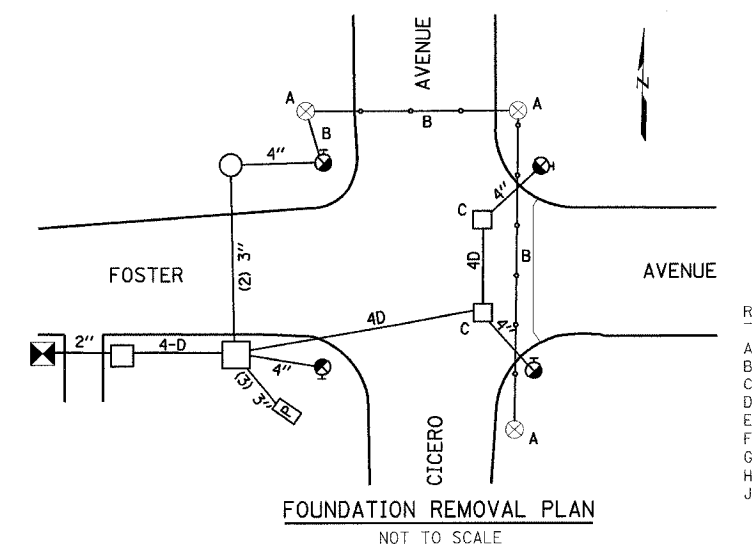
6/30/2006 6:17:25 AM K:\1182518\Cadd\EM\1182519\_Temp\_Sig\_Plan.dgn



**INSTALLATION NOTES**

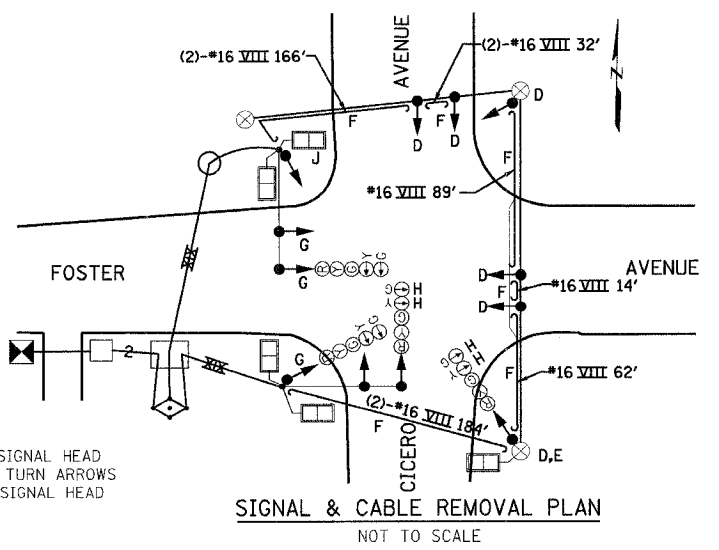
K - REINSTALL POLE, MAST ARM ASSEMBLY, SIGNAL HEADS, PEDESTRIAN HEADS.

L - REINSTALL STORED SIGNAL ELECTRIC CABLE FROM EXISTING MANHOLE TO SIGNAL AND PEDESTRIAN HEADS



**REMOVAL NOTES:**

A - REMOVE EXISTING TEMPORARY WOOD POLE  
 B - REMOVE EXISTING SPAN & TETHER WIRE  
 C - MANHOLE WITH ADJUSTED FRAME & LID  
 D - REMOVE EXISTING SIGNAL HEAD  
 E - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD  
 F - REMOVE EXISTING SIGNAL CABLE  
 G - UNCOVER AND ENERGIZE EXISTING WESTBOUND SIGNAL HEAD  
 H - UNCOVER AND ENERGIZE EXISTING SOUTHBOUND TURN ARROWS  
 J - UNCOVER AND ENERGIZE EXISTING PEDESTRIAN SIGNAL HEAD



**BILL OF MATERIALS**  
REMOVE AND REINSTALL SIGNAL EQUIPMENT

	UNIT	QTY
MAST ARM, TRAFFIC, STEEL MONOTUBE, 35 FOOT	EACH	1
MAST ARM, TRAFFIC, STEEL MONOTUBE, 40 FOOT	EACH	1
SIGNAL HD, POLYCARB., 1-FACE, 3-SECT., BRACKET MNTD	EACH	1
SIGNAL HD, POLYCARB., 1-FACE, 3-SECT., MAST ARM MNTD	EACH	4
SIGNAL HD, POLYCARB., 1-FACE, 5-SECT., BRKT MNTD	EACH	1
PEDESTRIAN SIGNAL HD, POLYCARB., 1-FACE, BRKT MNTD	EACH	4
JUNCTION BOX, POLE OR POST MOUNTED	EACH	2

ALL SIGNAL EQUIPMENT MOUNTED ON LIGHT POLES

**BILL OF MATERIALS**  
REMOVE AND REINSTALL LIGHTING EQUIPMENT

	UNIT	QTY
POLE, STEEL, 34'-6", ANCHOR BASE, 12 1/2" DIA., 3 GA	EACH	2
MAST ARM, STEEL, STREET LIGHTING, 8 FOOT	EACH	4
LUMINAIRE, STREET LIGHT, HPS, 310 WATT, 240 V.	EACH	4

ALL SIGNAL EQUIPMENT MOUNTED ON LIGHT POLES

6/20/2006 6:23:53 AM k:\1182519\Cadd\1182519\_Perm\_Sig\_Plan.dgn

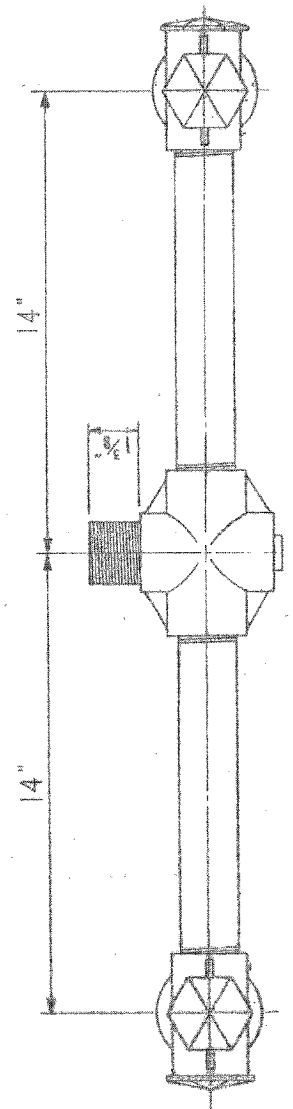


REVISIONS	
NAME	DATE

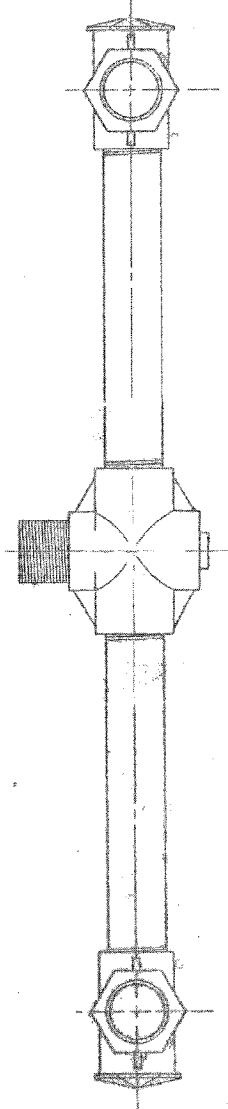
**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 800  
Chicago, Illinois 60607

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FOSTER AVE. BRIDGE OVER I-94**  
 PERMANENT TRAFFIC SIGNAL INSTALLATION  
 N. CICERO AVENUE & W. FOSTER AVENUE  
 DRAWING No. 12867

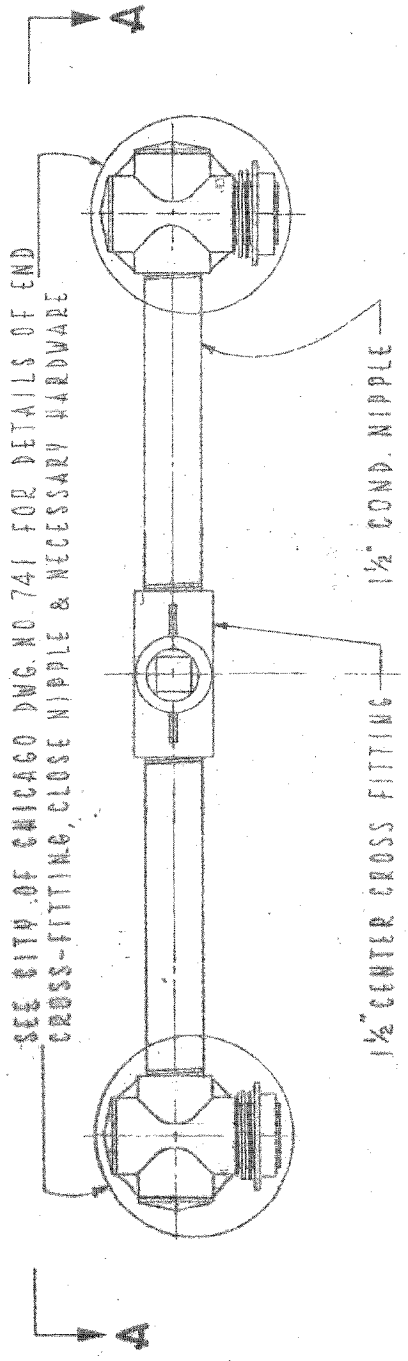
SCALE: AS NOTED DRAWN BY PRK  
 DATE: JUNE 30, 2006 CHECKED BY JM



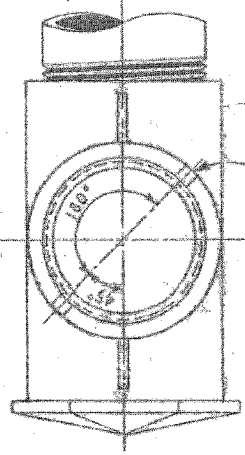
**TOP VIEW A - A**



**TOP VIEW B - B**



**FRONT VIEW**



**SECTION C - C**

**TRAFFIC SIGNAL UPPER & LOWER BRACKET ARM ASSEMBLY**

CITY OF CHICAGO  
DEPT. OF STREETS & SANITATION  
BUREAU OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

REVISIONS  
A / 7-23-1981  
B  
C  
D  
E  
F

CHECKED: *E. Gerulis*  
D.C. / M.S.  
ENG. OF ELEC.

DESIGNED: *L. Cucci*  
DWA. NO. **740**

SCALE: AS NOTED

DATE: 8-21-74

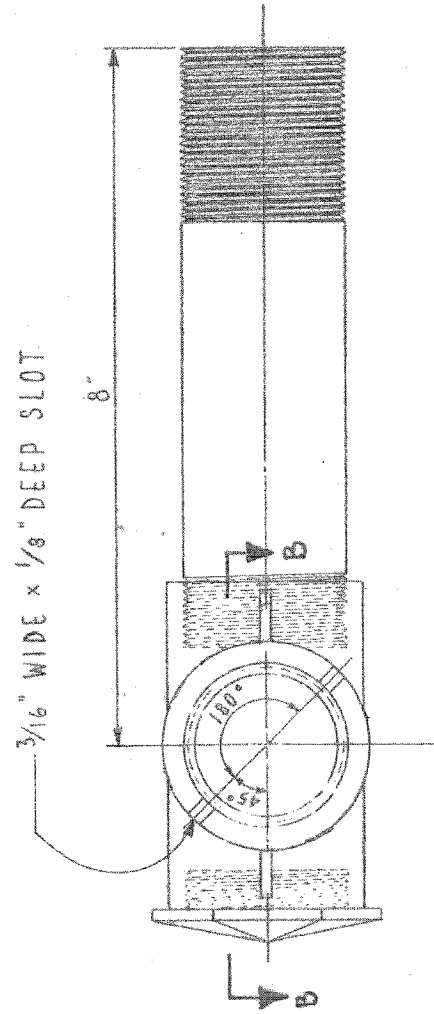
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FOSTER AVE. BRIDGE OVER I-94**  
STANDARD SIGNAL DRAWINGS  
SHEET 1 OF 5

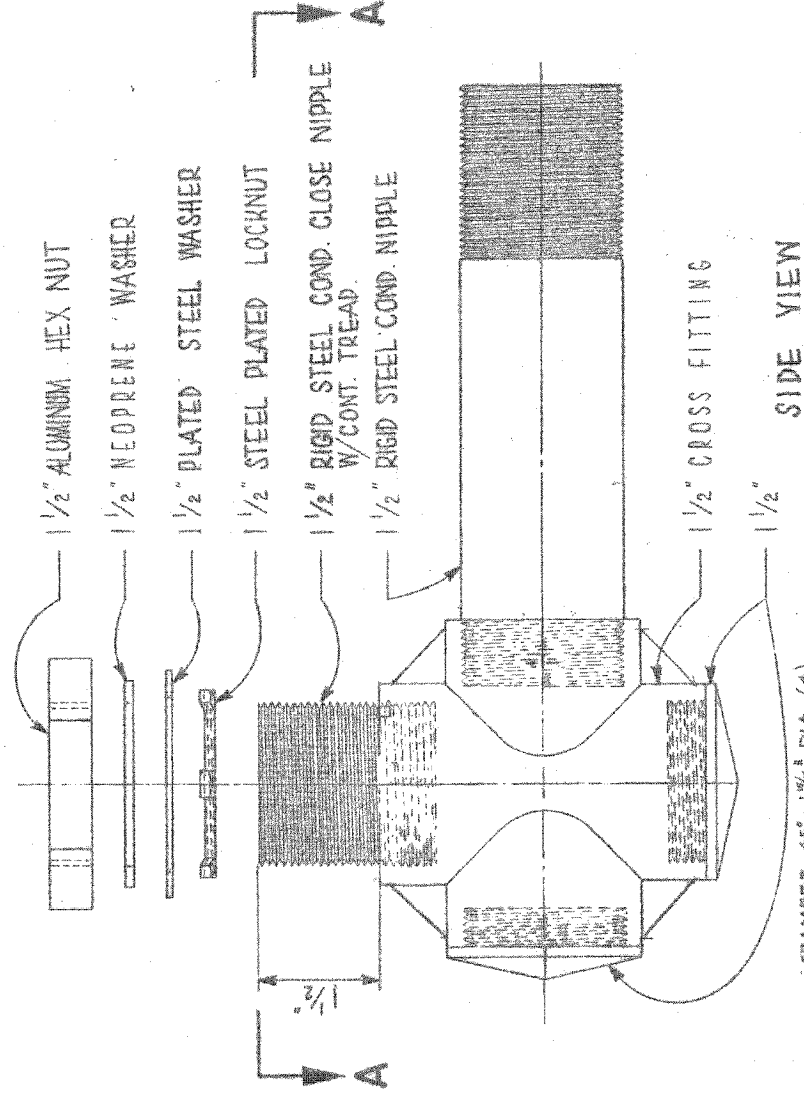
SCALE: 1"=20'  
DATE: JUNE 30, 2006

DRAWN BY: PRK  
CHECKED BY: GR



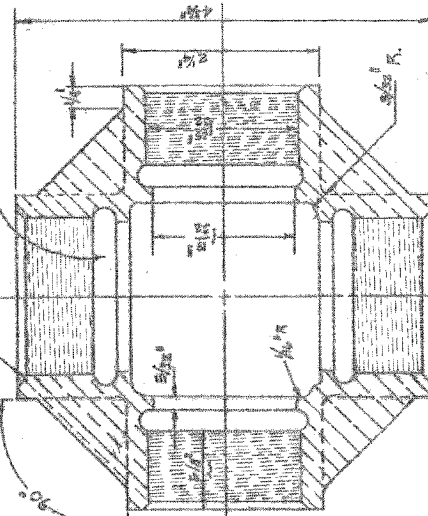


**TOP VIEW A-A**



**SIDE VIEW**

CRAMPER 45° 1 1/4" DIA. (4)  
UNDERCUT ~ 1 1/8" D. x 1/4" WIDE (4)



**SECTION B-B**

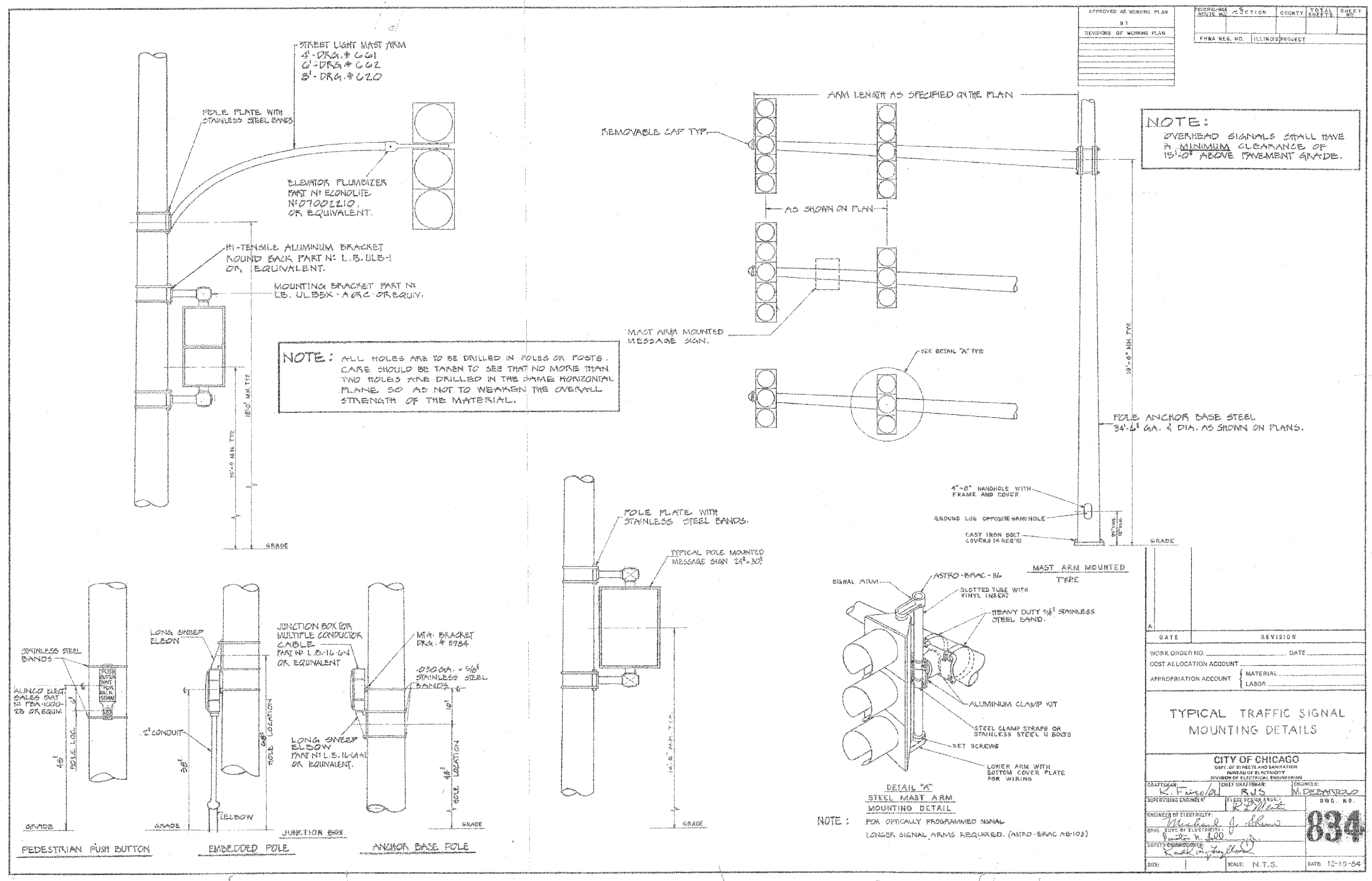
DELETE SET SCREWS  
ADDED SECTION B-B

**TRAFFIC SIGNAL  
BRACKET ARM ASSEMBLY**

CITY OF CHICAGO DEPT. OF STREETS & SANITATION BUREAU OF ELECTRICITY DIVISION OF ELEC. ENGINEERING		DESIGNED: L. QUOGI DWG. NO. <b>741</b>
REVISIONS	CHECKED:	DATE:
A 1-23-81	F. GEBULIS	P.S. / M.S.
B 12-2-85	ENG. OF ELEC.	
C	SUPT. OF CONST.	
D	SENO. Supt. of Const.	
E		
F		

SCALE: 1/2" = 1"  
DATE: 8-21-74

REVISIONS	
NAME	DATE



NOTE:  
 OVERHEAD SIGNALS SHALL HAVE A MINIMUM CLEARANCE OF 15'-0" ABOVE PAVEMENT GRADE.

DATE	REVISION

WORK ORDER NO. \_\_\_\_\_ DATE \_\_\_\_\_

COST ALLOCATION ACCOUNT \_\_\_\_\_

APPROPRIATION ACCOUNT \_\_\_\_\_ MATERIAL \_\_\_\_\_ LABOR \_\_\_\_\_

TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS

CITY OF CHICAGO  
 DEPT. OF STREETS AND SANITATION  
 BUREAU OF ELECTRICITY  
 DIVISION OF ELECTRICAL ENGINEERING

GRAPHIC ENGINEER: *R. F. ...* SUPERVISING ENGINEER: *R. F. ...* ENGINEER: *M. DE ...*

DESIGNER: *R. F. ...* CHECKED BY: *R. F. ...* DATE: 12-10-04

834

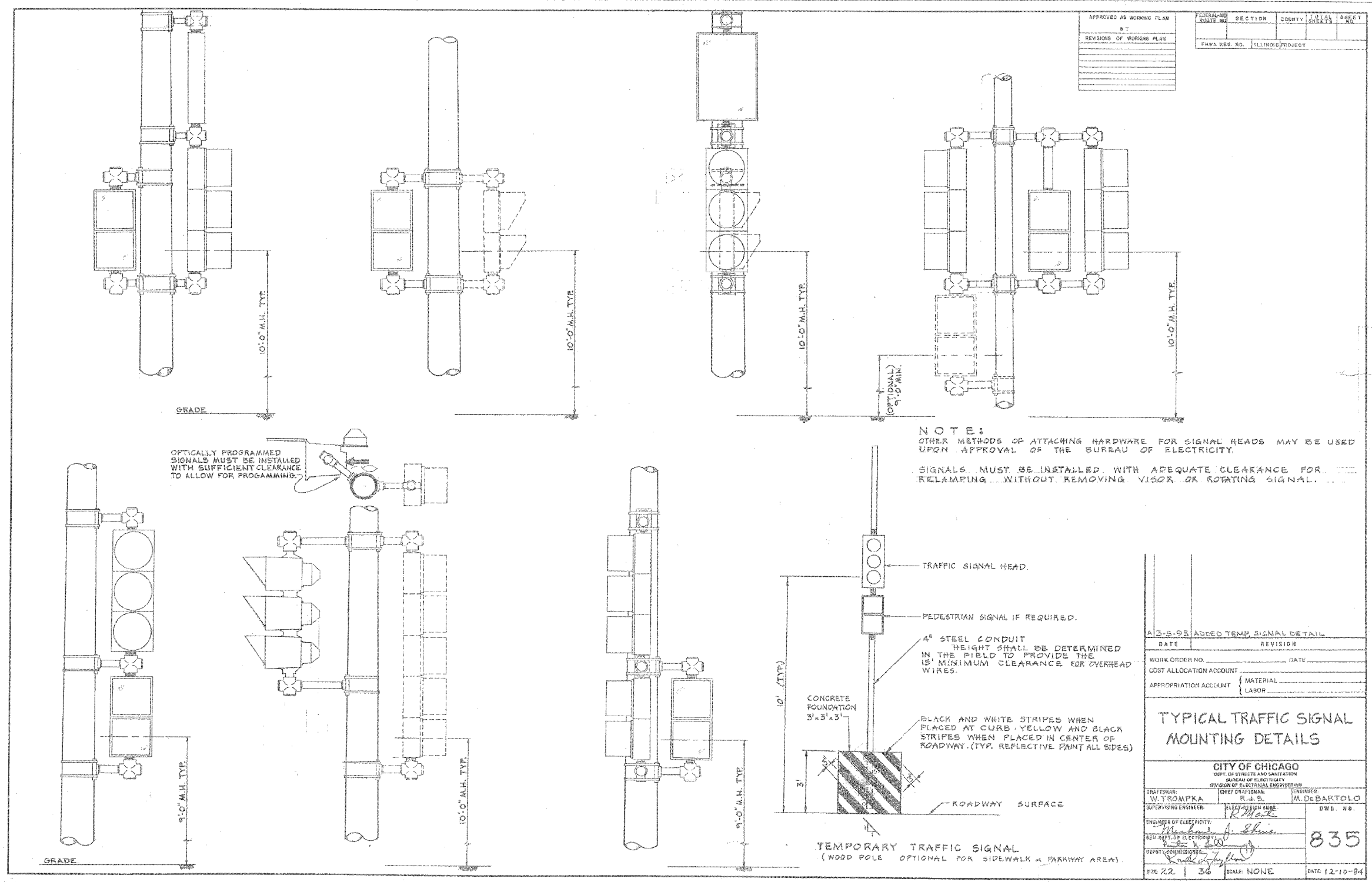
**EJM** EJM ENGINEERING, INC.  
 411 South Wells Street Suite 600  
 Chicago, Illinois 60607

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FOSTER AVE. BRIDGE OVER I-94  
 STANDARD SIGNAL DRAWINGS  
 SHEET 3 OF 5

REVISIONS	NAME	DATE

SCALE: 1"=20'  
 DATE: JUNE 30, 2006  
 DRAWN BY: PRK  
 CHECKED BY: GR

6/29/2006 6:38:28 PM K:\1182519\Cadd\1182519-1\14803.dgn



APPROVED AS WORKING PLAN	BY
REVISIONS OF WORKING PLAN	

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FHWA RES. NO.	ILLINOIS	PROJECT		

12-5-98 ADDED TEMP. SIGNAL DETAIL

DATE	REVISION
WORK ORDER NO.	DATE
COST ALLOCATION ACCOUNT	
APPROPRIATION ACCOUNT	MATERIAL
	LABOR

### TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS

CITY OF CHICAGO  
DEPT. OF STREETS AND SANITATION  
BUREAU OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: W. TROMPKA	CHIEF DRAFTSMAN: R. J. S.	ENGINEER: M. DEBARTOLO
SUPERVISING ENGINEER: [Signature]	DEPT. OF ELECTRICITY: [Signature]	DWG. NO. 835
ENGINEER OF ELECTRICITY: [Signature]	DEPT. OF ELECTRICITY: [Signature]	
DEPUTY COMMISSIONER: [Signature]		

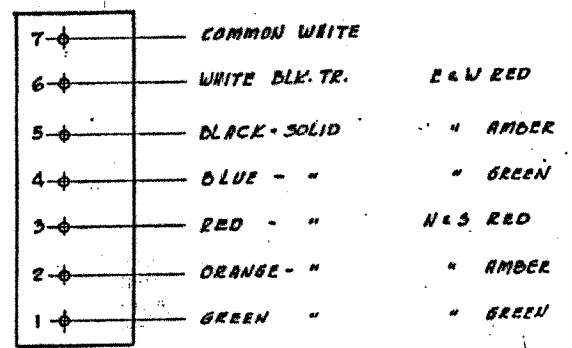
DATE: 12-10-94

REVISIONS	NAME	DATE

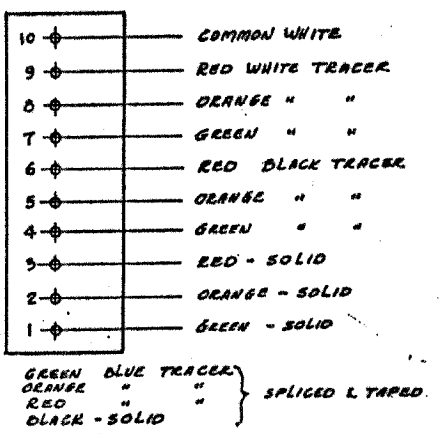
ILLINOIS DEPARTMENT OF TRANSPORTATION  
FOSTER AVE. BRIDGE OVER I-94  
STANDARD SIGNAL DRAWINGS  
SHEET 4 OF 5

SCALE: 1"=20'  
DATE: JUNE 30, 2006  
DRAWN BY: PRK  
CHECKED BY: GR

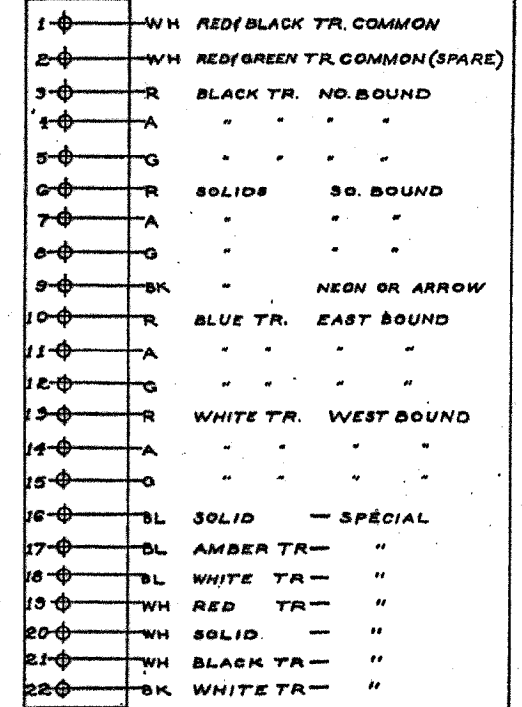
**7 CONDUCTOR - 7 POINT STRIP**



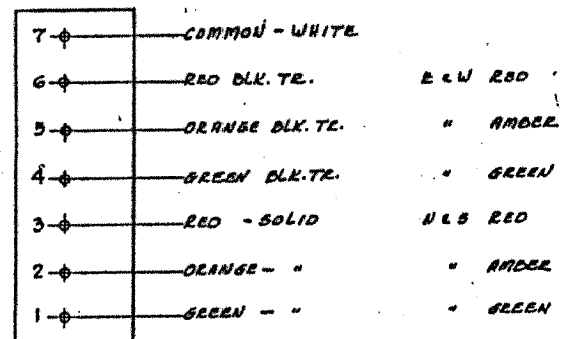
**14 CONDUCTOR - 10 POINT STRIP**



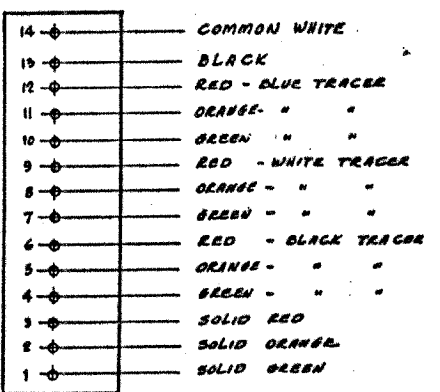
**22 CONDUCTOR - CODE**  
**19/6 CODE - OMIT 19-21-22**



**10 CONDUCTOR - 7 POINT STRIP**

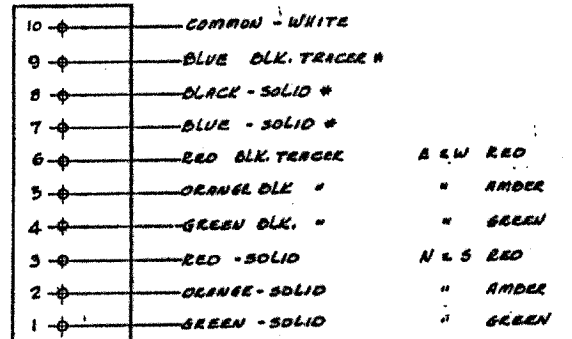


**14 CONDUCTOR - 14 POINT STRIP**



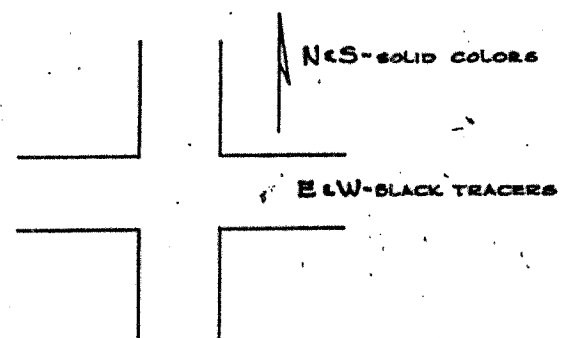
SOLID BLUE }  
SOLID BLACK } SPLICED & TAPED  
BLUE BLK. TR }

**10 CONDUCTOR - 10 POINT STRIP**



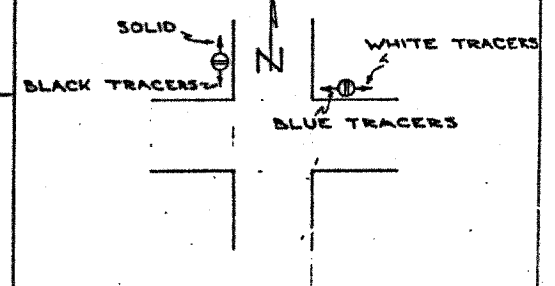
\* - SOLID BLUE - GREEN LIGHT  
\* - SOLID BLACK - AMBER  
\* - BLUE BLACK TR. RED } IF USED

**STRAIGHT CORNER**



NOTE:  
CONDUCTORS FOR  
WALK SIGNALS &  
VARIOUS MESSAGE  
SIGNS AT DISCRETION  
OF INSTALLER

**SPLIT CORNER**



**TRAFFIC CONTROL SIGNALS  
STRIP WIRING LAYOUT**

REVISED	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL OPERATION		
A	5-4-61	DRAWN	ENGINEER
D	11-10-64	CHECKED	DEC. NO.
C			
D			
E			
F			
G			

12268-A  
DATE 11-8-56

**EJM** EJM ENGINEERING, INC.  
411 South Wells Street Suite 800  
Chicago, Illinois 60607

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FOSTER AVE. BRIDGE OVER I-94  
STANDARD SIGNAL DRAWINGS  
SHEET 5 OF 5

REVISIONS	NAME	DATE

SCALE: 1"=20'  
DATE: JUNE 30, 2006  
DRAWN BY PRK  
CHECKED BY GR









**ROADWAY LIGHTING  
BILL OF MATERIALS**

**NOTES:**

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND NATIONAL ELECTRIC SAFETY CODE. WORK PERFORMED ON FOSTER AVE SHALL FOLLOW CHICAGO ELECTRIC CODE STANDARDS. WORK UNDER THE BRIDGE SHALL COMPLY WITH IDOT DISTRICT ONE STANDARDS.
- COORDINATE THE INSTALLATION OF STREET LIGHTING WITH THE CONSTRUCTION STAGING.
- EXISTING MANHOLES AND HANDHOLES TO BE REUSED FOR THE NEW ROADWAY LIGHTING MAY CONTAIN TRAFFIC SIGNAL CONTROL WIRES, PARK DISTRICT ELECTRIC DISTRIBUTION LINE AND OTHER UTILITIES. ANY DAMAGE TO THESE UTILITY LINES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- FOR SIZE AND NUMBER OF CONDUCTORS IN CONDUIT, REFER TO SHEETS E-02 AND E-03.
- THE CITY OF CHICAGO BUREAU OF ELECTRICITY WILL PROVIDE ALL PERMANENT LIGHT POLES, DAVIT ARMS AND LUMINAIRES FOR FOSTER AVE. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION ONLY OF THESE ITEMS. FOR DETAILS REGARDING THESE POLES AND LUMINAIRES, REFER TO ELECTRICAL PLANS AND SPECIFICATIONS.
- CONNECT ALL CITY OF CHICAGO LUMINAIRES TO 240V CIRCUITS.
- COORDINATE THE INSTALLATION OF STREET LIGHTING AND UNDERGROUND WORK WITH THE OTHER TRADES.
- THE QUANTITIES FOR ELECTRIC CABLE AND CONDUITS ARE APPROXIMATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACTUAL QUANTITIES REQUIRED FOR THIS PROJECT.
- ALL EXISTING ELECTRICAL POLES AND ARMS THAT ARE TO BE REMOVED FROM FOSTER AVE. SHALL BE DELIVERED TO THE BUREAU OF ELECTRICITY, 4101 S. CICERO IN CHICAGO, IL. ALL EXISTING ELECTRICAL FIXTURES THAT ARE TO BE REMOVED FROM FOSTER AVE. SHALL BE DELIVERED TO THE BUREAU OF ELECTRICITY AT THEIR ASHLAND AVENUE YARD IN CHICAGO, IL. ELECTRICAL EQUIPMENT BELOW THE FOSTER AVE. BRIDGE (UNDERPASS AND SIGN EQUIPMENT) IS PROPERTY OF THE STATE AND SHALL BE RETURNED TO THE STATE STOCK; CALL NEIL THAKKAR AT (847) 221-3078 TO MAKE ARRANGEMENTS. ALL EXISTING CABLE WILL BECOME THE PROPERTY OF THE CONTRACTOR.
- ALL TEMPORARY LIGHTING CIRCUITRY SHALL BE DEACTIVATED PRIOR TO ACTIVATION OF PERMANENT LIGHTING EQUIPMENT. ANY DAMAGES INCURRED BY FAILING TO DO SO WILL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
- ALL WORK ASSOCIATED WITH DISCONNECTING THE REVLAC SIGN (CM13) SHALL BE DONE BY AN ASMC CONTRACTOR. WORK WILL NEED TO BE COORDINATED. ONCE THE REVLAC SIGN HAS BEEN DISCONNECTED, LOWERING OF THE JUNCTION BOXES AND CONDUIT MAY BEGIN.
- PROVIDE (4) 4" EXPANSION FITTINGS, AS OUTLINED IN IDOT'S STANDARD SPECIFICATIONS, ARTICLE 811.3. FITTINGS ARE CONSIDERED INCIDENTAL TO THE COST OF CONDUIT; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ITEM DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
CONDUIT IN TRENCH, 2" DIA., PVC SCHEDULE 40	FOOT	170
CONDUIT IN TRENCH, 2" DIA., PVC SCHEDULE 80	FOOT	345
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	500
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4"	EACH	6
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x10"x6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"x14"x6"	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	630
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO.10	FOOT	2000
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 8	FOOT	1475
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 6	FOOT	2950
AERIAL CABLE, 2-1/C NO. 6, ALUMINUM, WITH MESSENGER WIRE	FOOT	525
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	11
UNDERPASS LUMINAIRE, 70W, HIGH PRESSURE SODIUM, STAINLESS STEEL HOUSING	EACH	8
LIGHT POLE FOUNDATION, 24" DIAMETER	EACH	5
DRILL EXISTING MANHOLE OR HANDHOLE	EACH	8
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., RIGID GALVANIZED STEEL, PVC COATED	FOOT	965
LIGHT POLE, ALUMINUM, ARTERIAL, DAVIT, 15" BOLT CIRCLE (INSTALL ONLY)	EACH	5
MAST ARM, ALUMINUM, ARTERIAL, DAVIT, 8' (INSTALL ONLY)	EACH	5
FLOURESCENT LUMINAIRE FOR SIGN LIGHTING	EACH	13
ELECTRIC CONNECTION TO SIGN STRUCTURE	EACH	2
TEMPORARY LIGHTING CONTROLLER	EACH	1
REMOVE EXISTING LIGHTING SYSTEM	L. SUM	1
REVLAC SIGN REMOVAL	L. SUM	1
REVLAC SIGN RE-INSTALLATION	L. SUM	1
ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
ADJUST FRAME AND LID	EACH	2

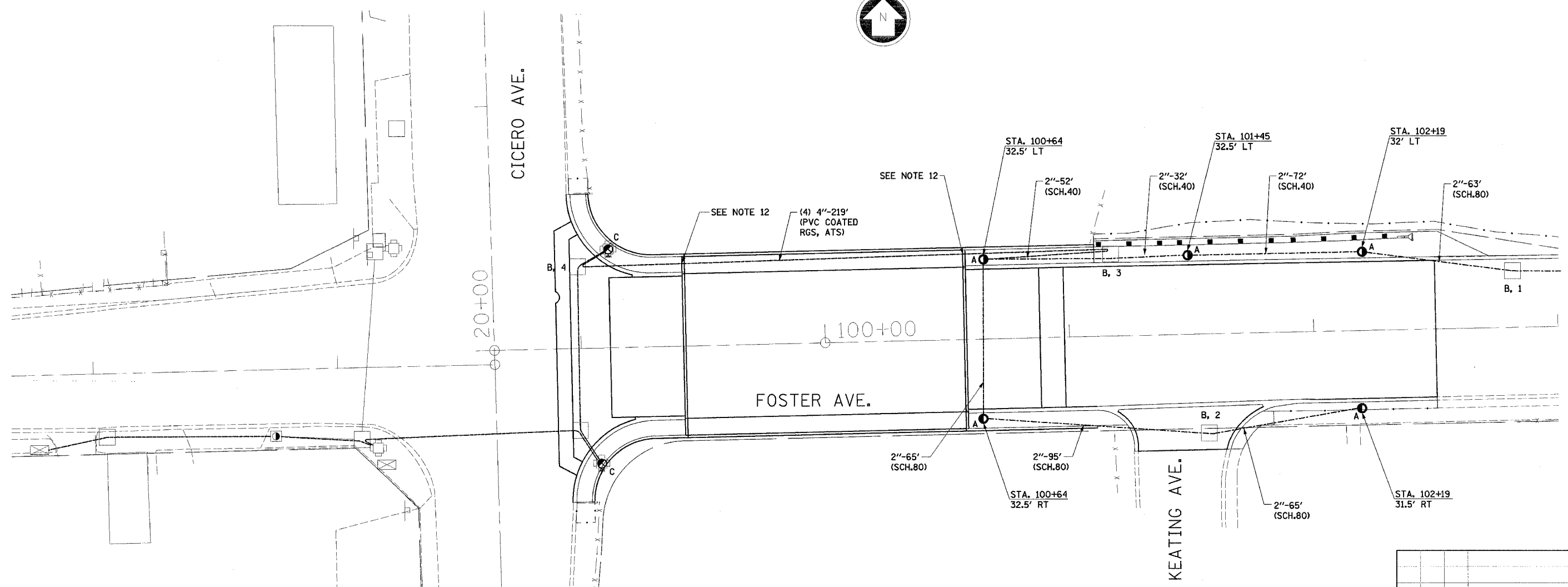
**LEGEND:**

-  EXISTING CITY LIGHT POLE, 27' 6", 7 GA. AND FOUNDATION WITH 310W LUMINAIRE
-  EXISTING CITY LIGHT POLE, 32' 6", 7 GA. AND FOUNDATION WITH 310W LUMINAIRE
-  PROPOSED CITY LIGHT POLE, 24' 6", ALUMINUM WITH FOUNDATION AND 400W LUMINAIRE
-  EXISTING CITY MANHOLE
-  EXISTING TRAFFIC SIGNAL POLE WITH EXISTING 310W LUMINAIRE AND MAST ARM
-  CONDUIT IN TRENCH, SIZE AS INDICATED
- 3TC CABLE, STREET LIGHT, 2 - 1/C #6, 600V & 1 - 1/C #8, IN CONDUIT
- 2W AERIAL CABLE, 2-1/C #6, ALUMINUM, WITH MESSENGER WIRE



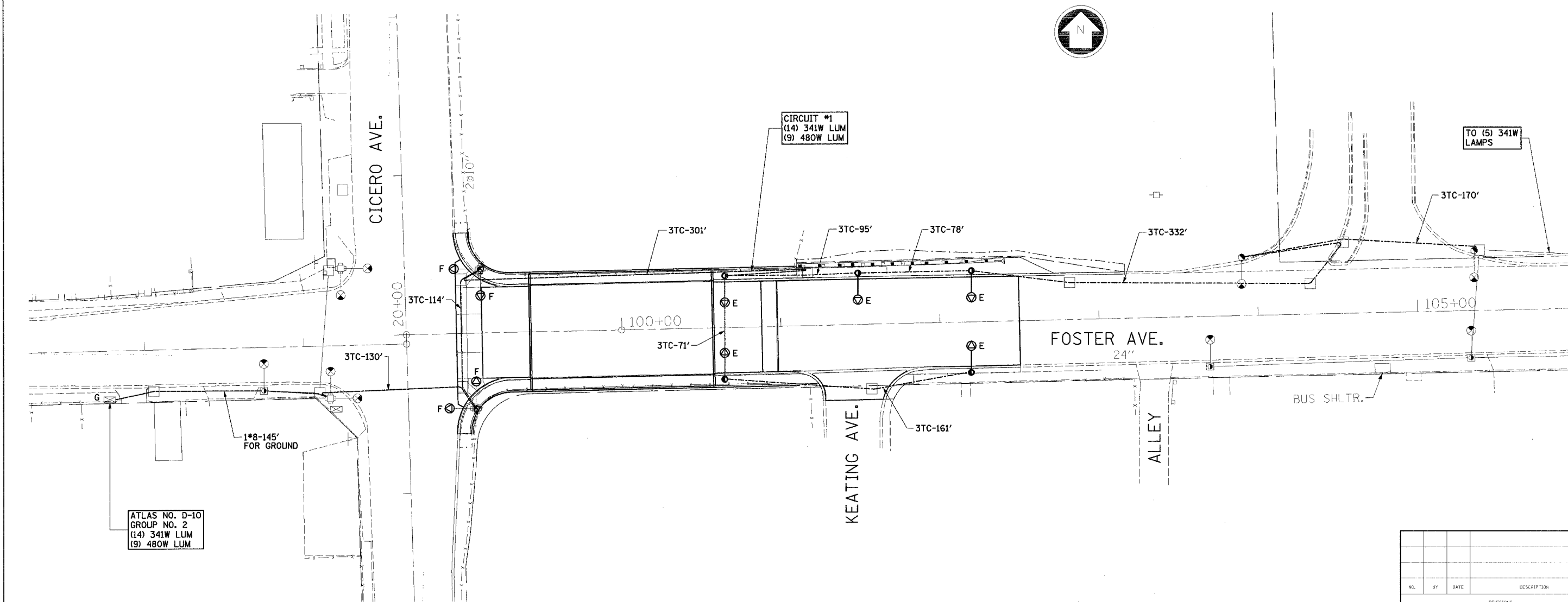
*Christopher L. Krueger*  
EXPIRES 11-30-2007

NO.	BY	DATE	DESCRIPTION
REVISIONS			
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<b>FOSTER AVE. BRIDGE OVER I-94</b>			
<b>GENERAL NOTES AND QUANTITIES</b>			
CONSULTANT		RJN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187	
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN	JAM	SHEET NO.	
CHECKED	RES	<b>E-01</b>	
APPROVED			
DATE	JUNE 30, 2006		
SCALE	NONE		
CONTRACT NO.		PROJECT NO. E-4-442	



- A - INSTALL 24" X 7" CONCRETE FOUNDATION, 15" BOLT CIRCLE, 1" ANCHOR ROD 4' FROM EDGE OF PAVEMENT. SEE IDOT STANDARD DRAWING E-301 ON SHEET E-09 FOR DETAILS.
- B - CLEAN OUT, THEN DRILL EXISTING MANHOLE. NUMBER OF HOLES TO BE DRILLED AS SHOWN AFTER DESIGNATION.
- C - FOR INFORMATION ONLY. SEE TRAFFIC SIGNAL PLANS AND SPECIFICATIONS FOR ACTUAL POLE LOCATIONS AND INSTRUCTIONS.

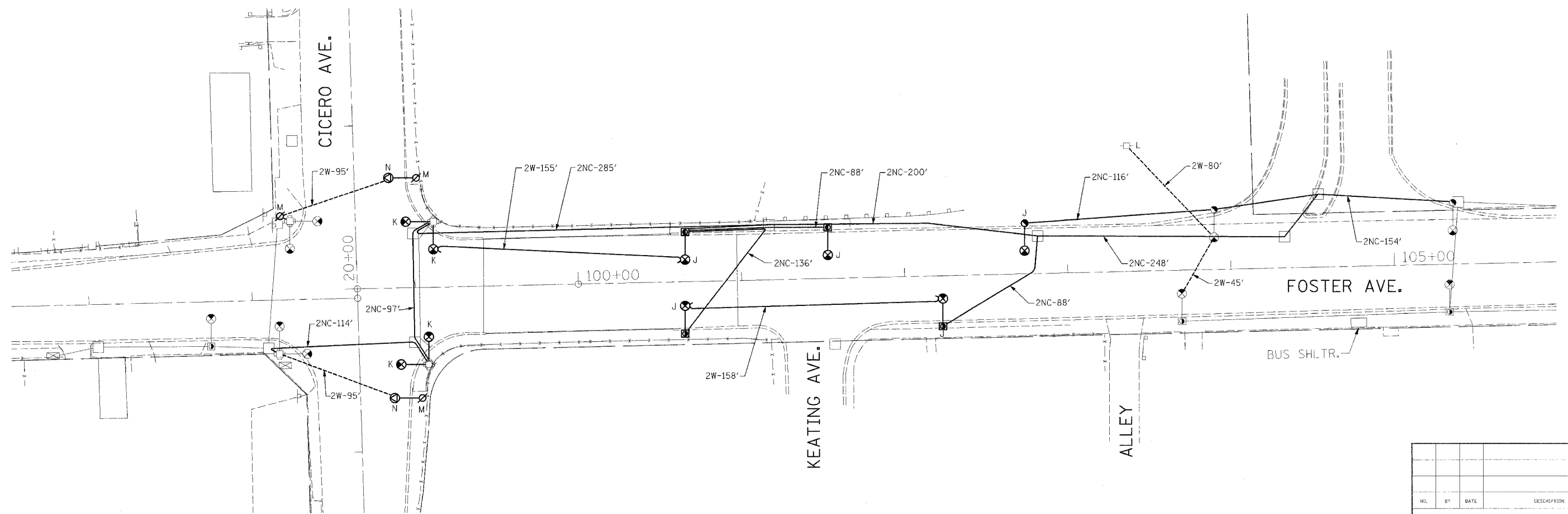
NO.		BY	DATE	DESCRIPTION
REVISIONS				
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607				
<b>FOSTER AVE. BRIDGE OVER I-94</b>				
<b>FOUNDATION AND CONDUIT PLAN</b>				
CONSULTANT RJN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187				
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING				
DRAWN	JDM	SHEET NO.		<b>E-02</b>
CHECKED	RES			
APPROVED				
DATE	JUNE 30, 2006			
SCALE	1"=30'			
CONTRACT NO.	PROJECT NO.			ESS352




ATLAS NO. D-10  
GROUP NO. 2  
(14) 341W LUM  
(9) 480W LUM

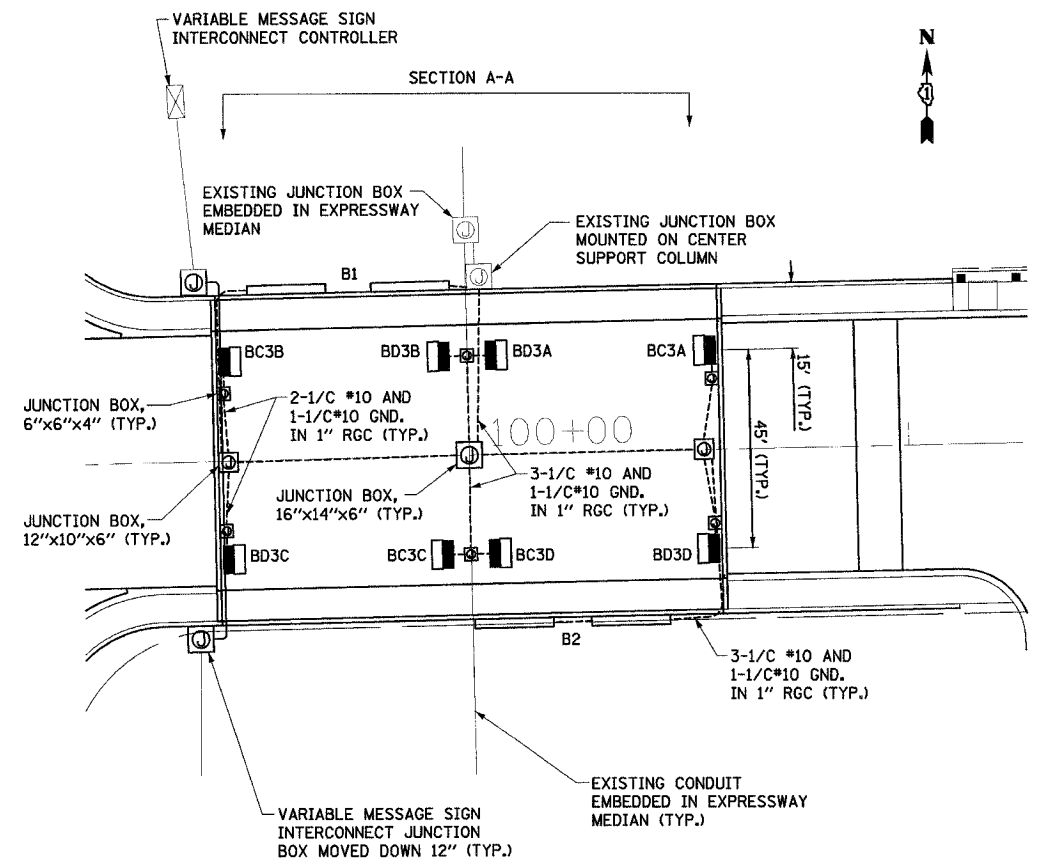
- E - INSTALL 24'-6" ALUMINUM POLE, 8' DAVIT ARM AND 400W LUMINAIRE PROVIDED BY THE CITY OF CHICAGO BUREAU OF ELECTRICITY. SEE STANDARD DRAWINGS 941 AND 948 ON SHEETS E-12 AND E-13 FOR DETAILS.
- F - REPLACE EXISTING 310W LUMINAIRE WITH 400W LUMINAIRE (PROVIDED BY BUREAU OF ELECTRICITY) PRIOR TO RE-INSTALLATION OF TRAFFIC SIGNAL POLE.
- G - GROUND PROPOSED #8 WIRE IN THE EXISTING LIGHTING CONTROLLER FOR EQUIPMENT GROUND.

NO.	BY	DATE	DESCRIPTION
REVISIONS			
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<b>FOSTER AVE. BRIDGE OVER I-94</b>			
<b>CABLE INSTALLATION PLAN</b>			
CONSULTANT R/JN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN: JEM CHECKED: RES APPROVED: DATE: JUNE 30, 2006 SCALE: 1"=30'	SHEET NO. <b>E-03</b>		
CONTRACT NO. _____ PROJECT NO. E-4-112			



- J - REMOVE EXISTING LIGHT POLE, MAST ARM, LUMINAIRE AND ANCHOR OR BALLAST HOUSING BASE AND BREAK DOWN FOUNDATION.
- K - REMOVE EXISTING MAST ARM AND LUMINAIRE IN ACCORDANCE WITH THE TRAFFIC SIGNAL PLANS.
- L - INSTALL 60A TEMPORARY LIGHTING CONTROLLER ON ComED POLE AS SHOWN ON SHEET E-08. THIS CONTROLLER SHALL BE DEACTIVATED PRIOR TO ACTIVATION OF THE PERMANENT LIGHTING; SEE NOTE 10.
- M - FOR INFORMATION ONLY. REFER TO TEMPORARY TRAFFIC SIGNAL PLANS FOR EXACT TEMPORARY WOOD POLE LOCATION.
- N - INSTALL TEMPORARY 15' MAST ARM (AS SPECIFIED IN THE TRAFFIC SIGNAL PLANS) WITH 400W LUMINAIRE ON TEMPORARY WOOD POLE. SEE TRAFFIC SIGNAL PLANS FOR EXACT POLE LOCATION.
- P - INSTALL (2) WIRE RACKS ON THE EXISTING POLE FOR THE AERIAL CABLE. THESE RACKS ARE CONSIDERED INCIDENTAL TO THE COST OF THE AERIAL CABLE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THESE RACKS SHALL BE REMOVED WHEN THE AERIAL CABLE IS REMOVED.

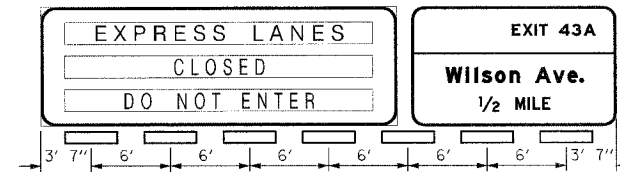
NO.	BY	DATE	DESCRIPTION
REVISIONS			
 <b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<b>FOSTER AVE. BRIDGE OVER I-94</b>			
<b>REMOVAL AND TEMPORARY PLANS</b>			
CONSULTANT R/JN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN CHECKED APPROVED DATE SCALE	JDM RES JUN 30, 2006 1"=30'	SHEET NO. <b>E-04</b>	PROJECT NO. E-4-442 CONTRACT NO.



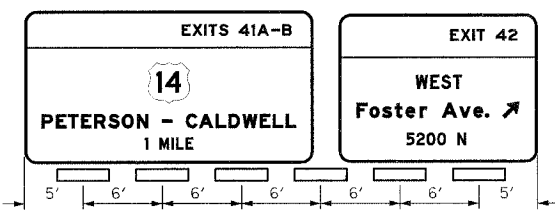
PLAN VIEW  
SCALE: 1"=20'

- LEGEND**
- UNDERPASS LUMINAIRE, 70W HPS, MOUNTED 2' FROM EOP
  - JUNCTION BOX ATTACHED TO STRUCTURE, SIZE AS SHOWN
  - RIGID GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE, SIZE AS NOTED

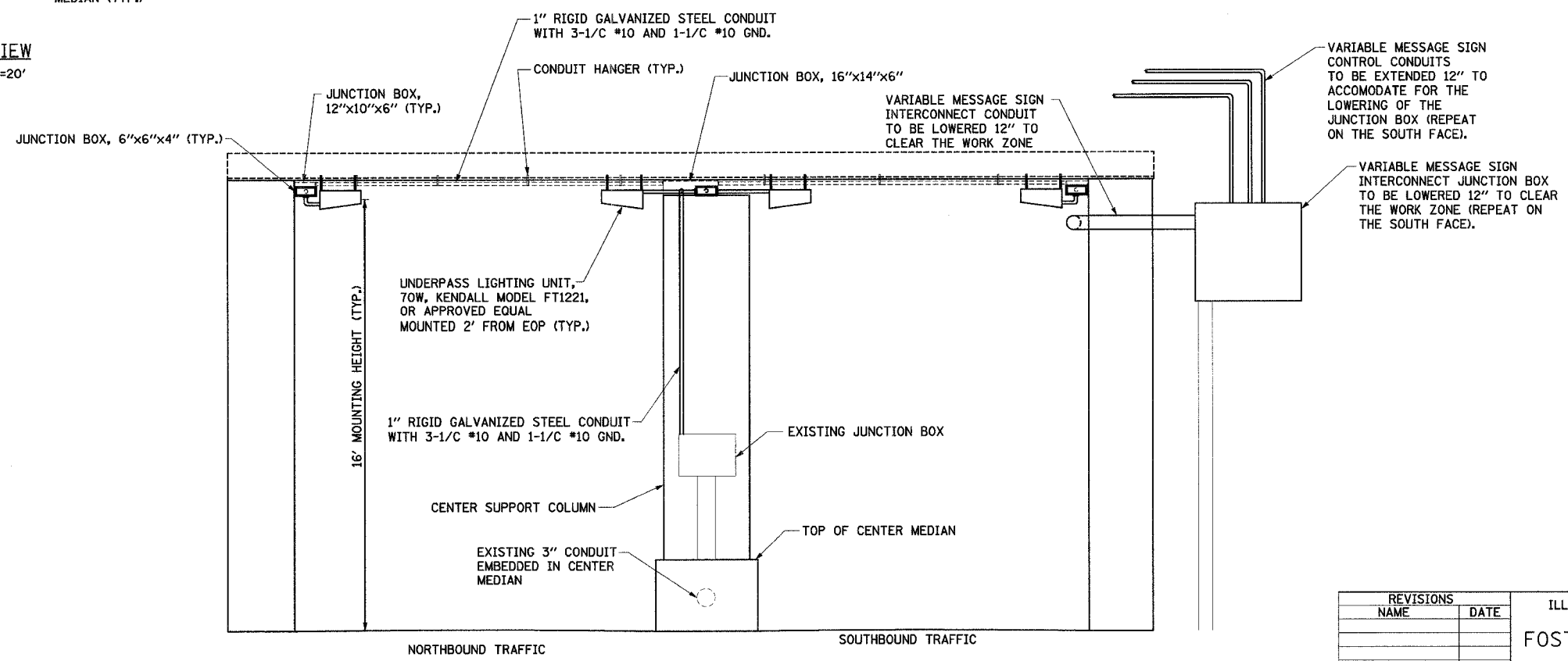
NOTE: ALL RIGID GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE REFERENCED ON THIS SHEET SHALL BE PVC COATED.



PROPOSED BRIDGE MOUNTED SIGN STRUCTURE LUMINAIRE SPACING ATTACHED TO NORTH FACE OF FOSTER AVE. BRIDGE ACROSS THE EDENS EXPRESSWAY (SEE IDOT STANDARD DETAIL ON SHEET E-15 FOR ELECTRICAL DETAILS)



PROPOSED BRIDGE MOUNTED SIGN STRUCTURE LUMINAIRE SPACING ATTACHED TO SOUTH FACE OF FOSTER AVE. BRIDGE ACROSS THE EDENS EXPRESSWAY (SEE IDOT STANDARD DETAIL ON SHEET E-15 FOR ELECTRICAL DETAILS)



SECTION A-A  
NTS

REVISIONS	
NAME	DATE

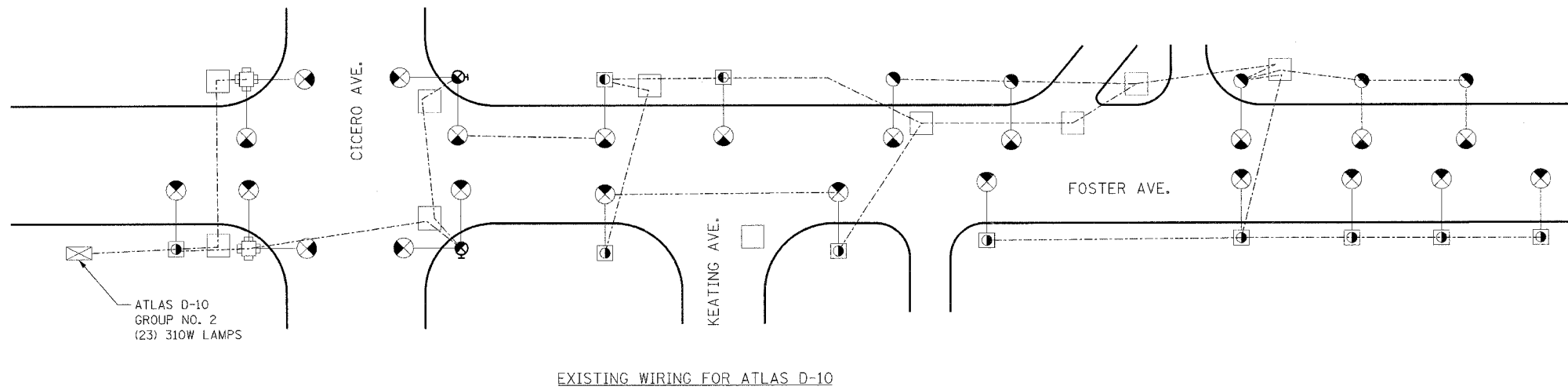
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FOSTER AVE. BRIDGE OVER I-94**  
PROPOSED UNDERPASS AND PROPOSED SIGN LIGHTING PLAN  
SCALE: NONE  
DATE: JUNE 30, 2006  
DRAWN BY: JDM  
CHECKED BY: RES.

**EJM** EJM ENGINEERING, INC.  
411 South Wells Street Suite 800  
Chicago, Illinois 60607

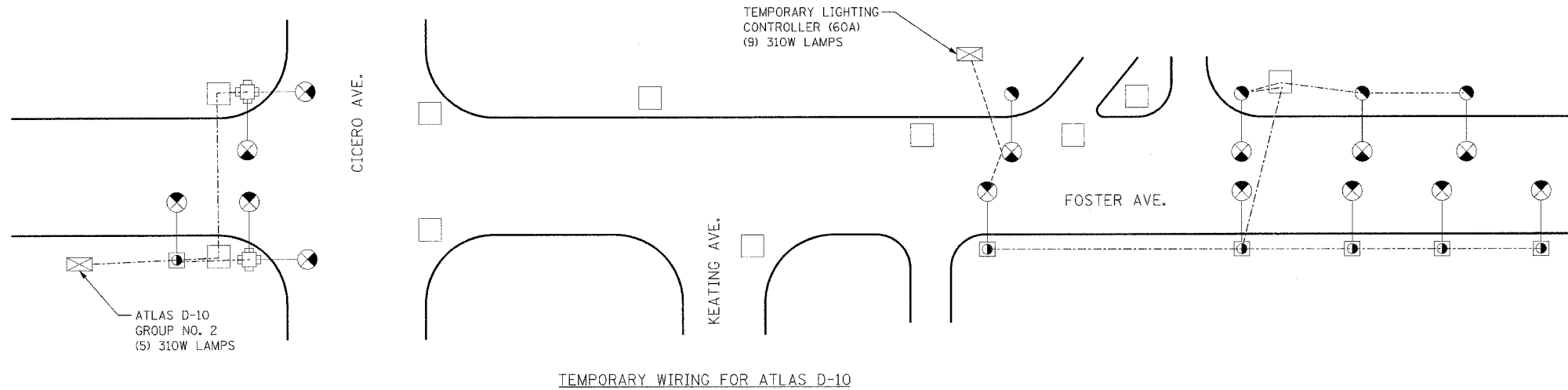
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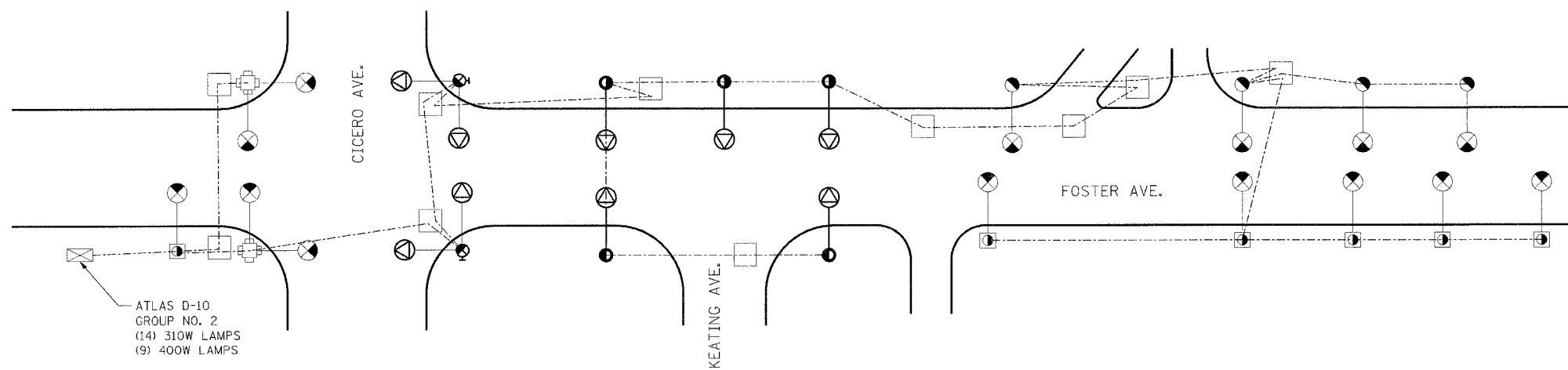
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	39
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60A65				



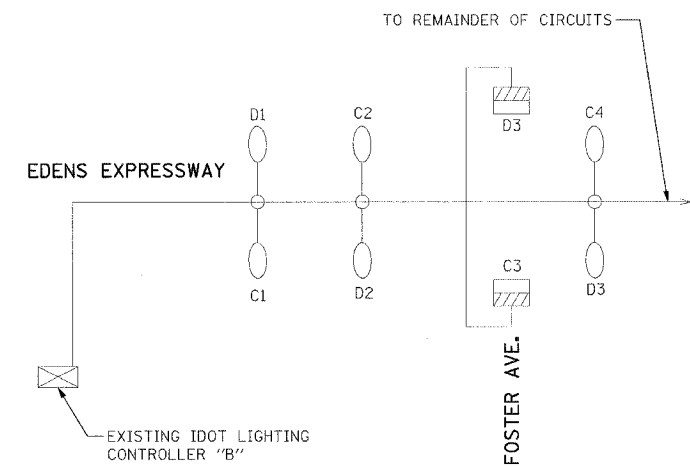
EXISTING WIRING FOR ATLAS D-10



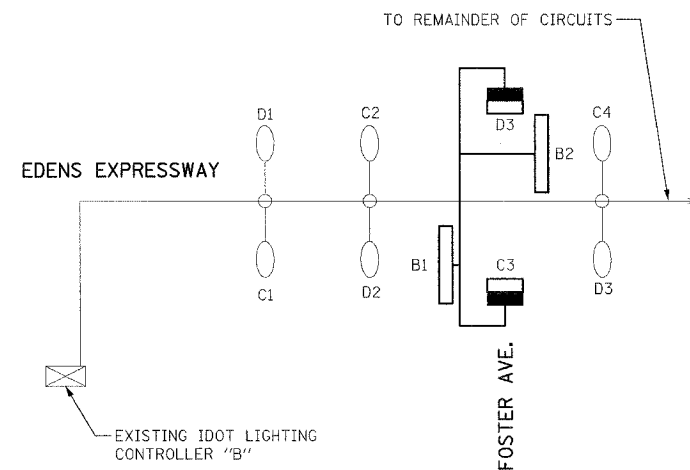
TEMPORARY WIRING FOR ATLAS D-10



PROPOSED WIRING FOR ATLAS D-10



EXISTING WIRING DIAGRAM FOR CONTROLLER "B"



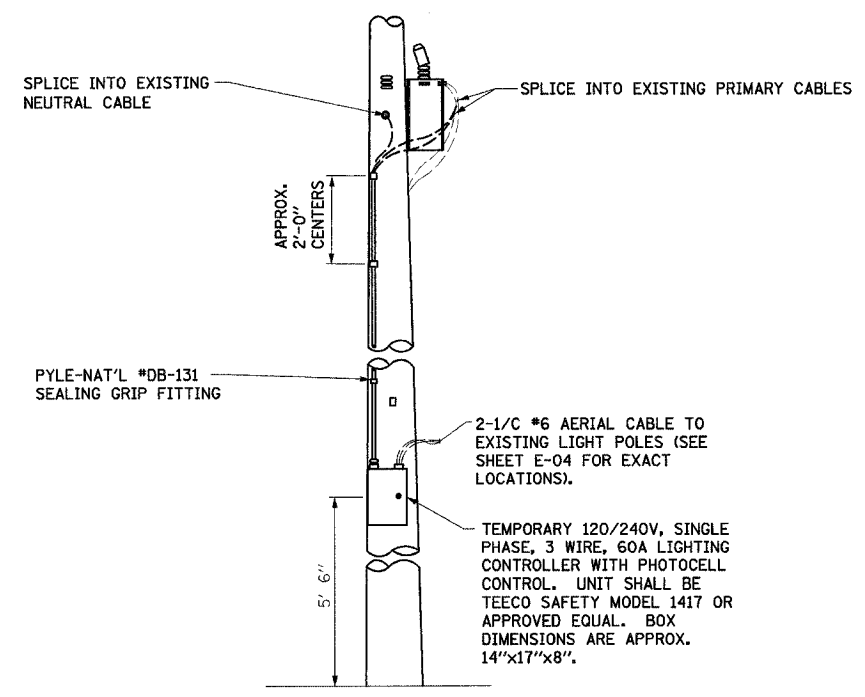
PROPOSED WIRING DIAGRAM FOR CONTROLLER "B"

6/23/2006 6:41:24 PM K:\182515\Gcd\3\EM\A-07.dgn

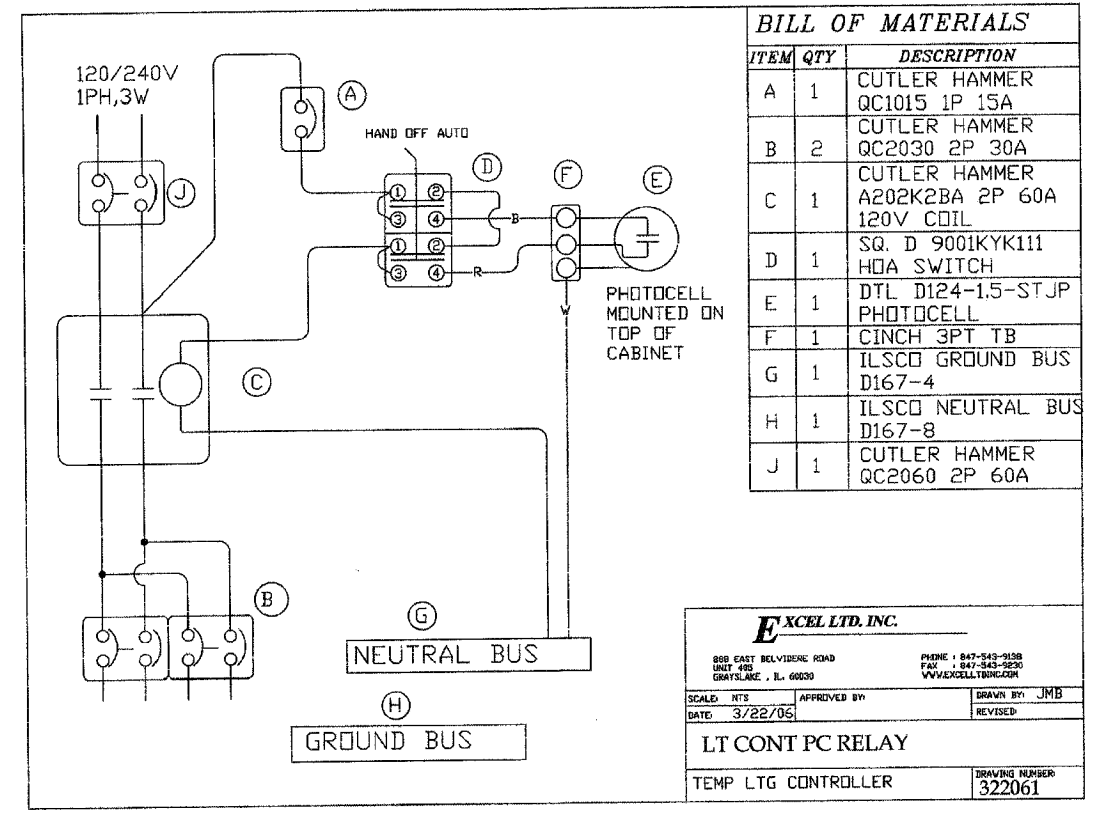
**EJM** EJM ENGINEERING, INC.  
411 South Wells Street Suite 800  
Chicago, Illinois 60607

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FOSTER AVE. BRIDGE OVER I-94**  
**WIRING DIAGRAMS**  
SCALE: NONE DRAWN BY JDM  
DATE: JUNE 30, 2006 CHECKED BY RES



TEMPORARY LIGHTING CABINET MOUNTING DETAIL



FOR INFORMATION ONLY

6/29/2006 6:42:40 PM K:\1182519\Cadd\E\MAE-08.dgn

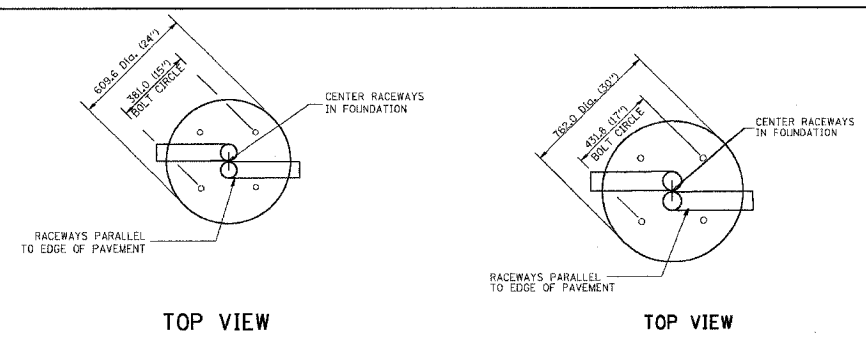
NO.	BY	DATE	DESCRIPTION
REVISIONS			
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<b>FOSTER AVE. BRIDGE OVER I-94</b>			
<b>TEMPORARY LIGHTING CONTROLLER DETAILS</b>			
CONSULTANT			
RJN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN	JCM	SHEET NO.	
CHECKED	RES	<b>E-08</b>	
APPROVED			
DATE	JUNE 30, 2006		
SCALE	NONE	CONTRACT NO.	
		PROJECT NO. E-6-AE	



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

**LIGHT POLE FOUNDATION DEPTH TABLE**  
12.192M (40 FT.) TO 14.478M (47.5 FT.) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	3.96M (13'-0")	4.57M (15'-0")
MEDIUM CLAY Qu = 0.75 TON/SQ. FT.	2.09M (6'-9")	3.23M (10'-9")
STIFF CLAY Qu = 1.50 TON/SQ. FT.	2.13M (7'-0")	2.44M (8'-0")
LOOSE SAND φ = 34°	2.74M (9'-0")	3.05M (10'-0")
MEDIUM SAND φ = 31.5°	2.52M (8'-3")	2.74M (9'-0")
DENSE SAND φ = 40°	2.36M (7'-9")	2.74M (9'-0")

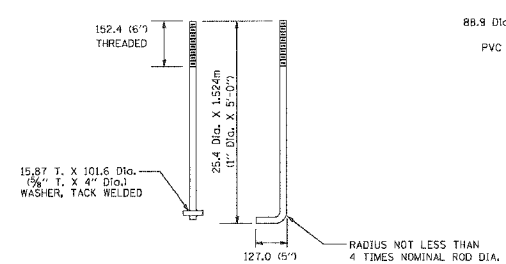


TOP VIEW

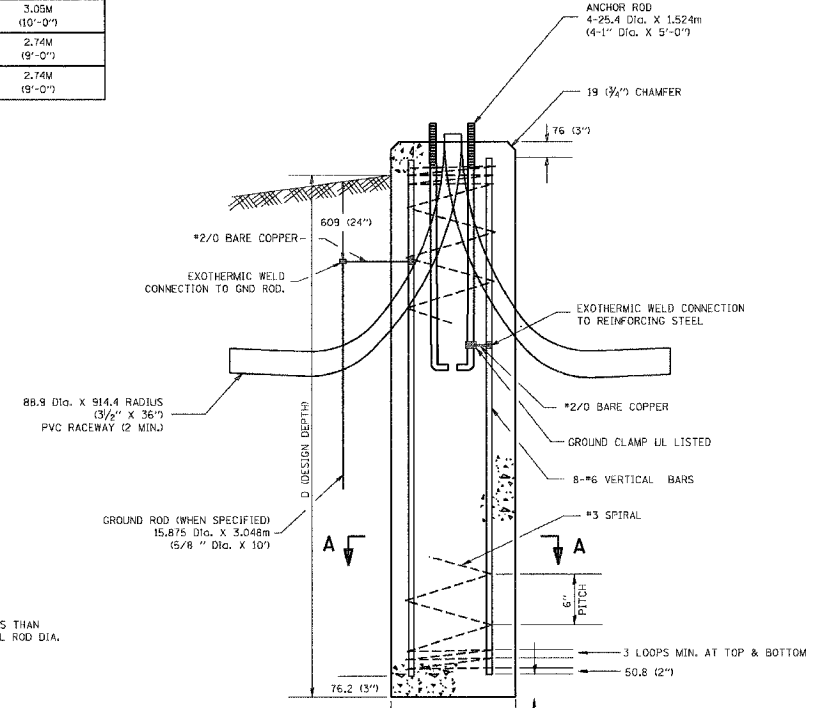
TOP VIEW

**NOTES**

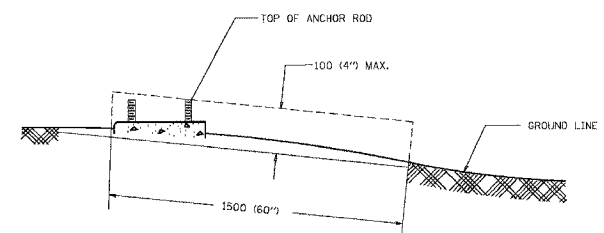
- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 15M (50 IN.) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 20MM (3/4-IN.).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 0H, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG (MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 150 MM (6 INCHES) WITH A MINIMUM OF 75 MM (3 INCHES) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 69.3MM (2 3/4") ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 152.4MM (6") PITCH OR MAY SUBSTITUTE #3 TIES AT 304.8MM (12") O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 25.4MM (1") ABOVE THE TOP OF THE FOUNDATION.



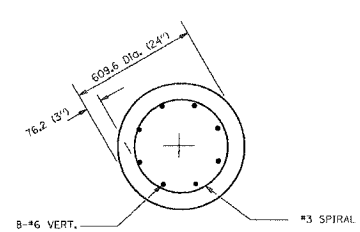
ANCHOR ROD DETAIL



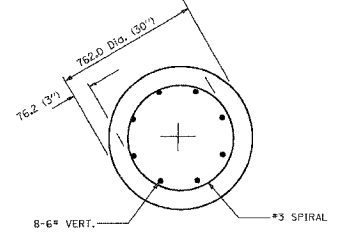
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

REVISIONS	
NAME	DATE

E-301

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHT POLE FOUNDATION**  
12.192M (40') TO 14.478M (47 1/2') M.H.  
381 (15") BOLT CIRCLE

SCALE: NONE  
DATE: 2/15/2006

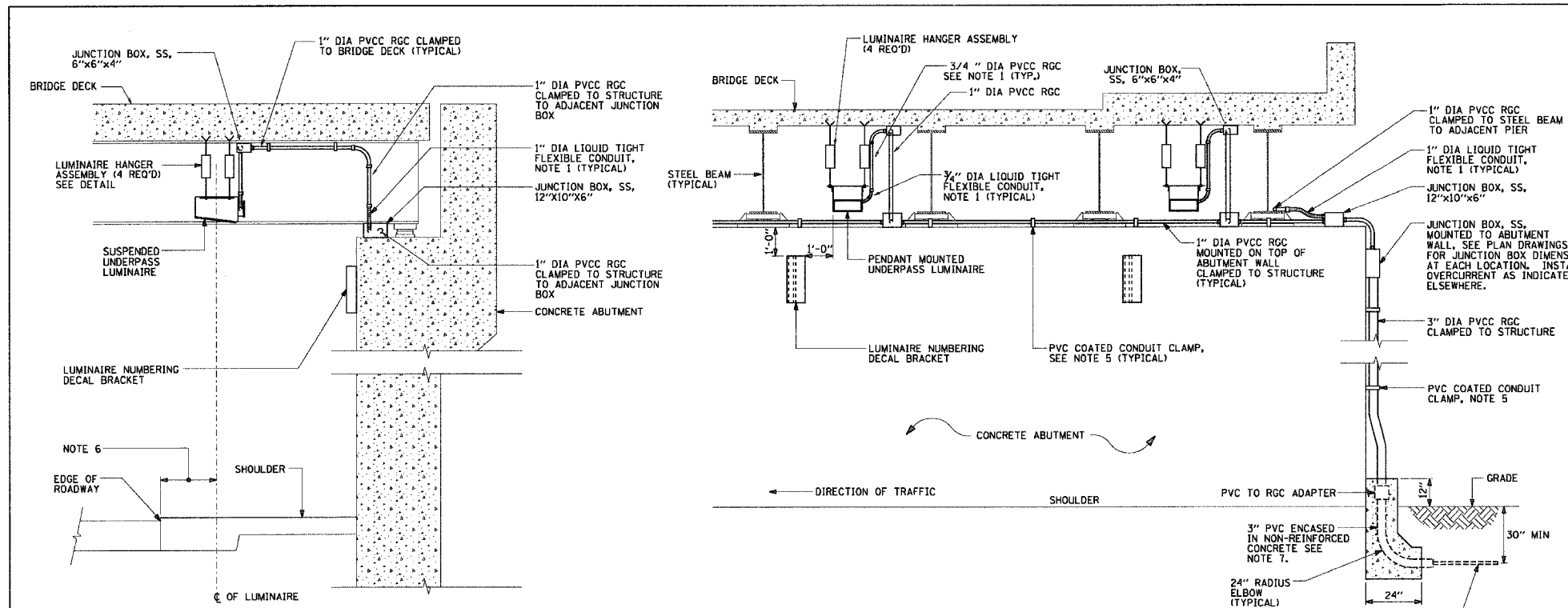
DRAWN BY  
CHECKED BY  
BE301  
REVISION DATE: 04/22/08

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NO.	BY	DATE	DESCRIPTION														

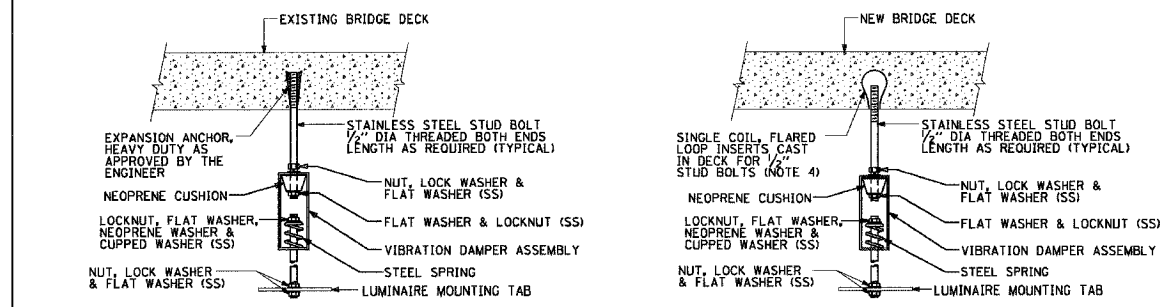
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 PLOT TIME = 10:45:40 AM  
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 USER NAME = gregmason

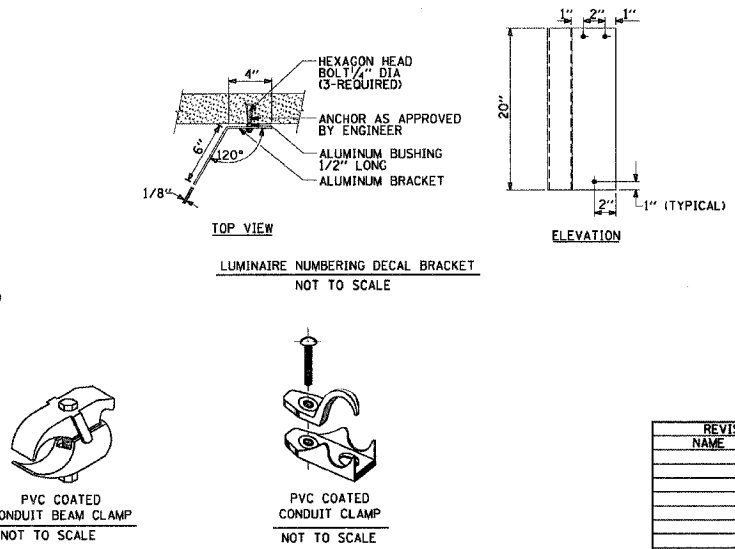
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
  - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRE.
  - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
  - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
  - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM.
  - ALL UNDERPASS LUMINAIRE MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
  - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
  - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



PVC COATED CONDUIT BEAM CLAMP NOT TO SCALE

PVC COATED CONDUIT CLAMP NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS**

SCALE: NONE  
DATE: JANUARY, 2005

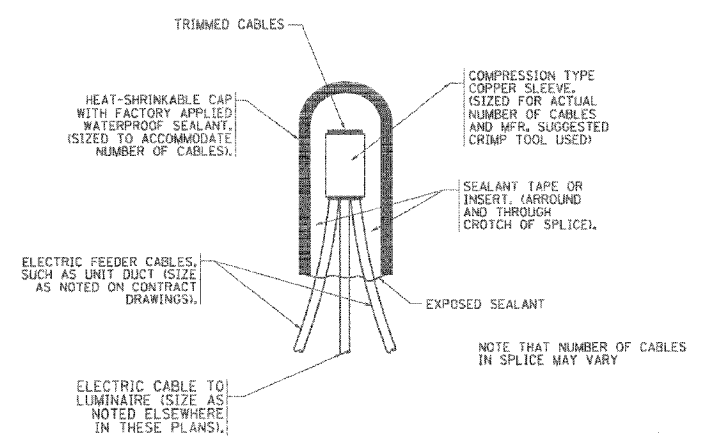
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CHECKED BY:

NO.		BY	DATE	DESCRIPTION
REVISIONS				
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 600 Chicago, Illinois 60607				
<b>FOSTER AVE. BRIDGE OVER I-94</b>				
<b>STANDARD ELECTRICAL DRAWINGS</b>				
CONSULTANT		RJN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187		
<b>CITY OF CHICAGO</b>				
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING <b>CITY OF CHICAGO</b> DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING				
DRAWN	JDM	SHEET NO.		<b>E-10</b>
CHECKED	RFS			
APPROVED				
DATE	JUNE 30, 2006			
SCALE	NONE			
CONTRACT NO.		PROJECT NO.		E-4-442

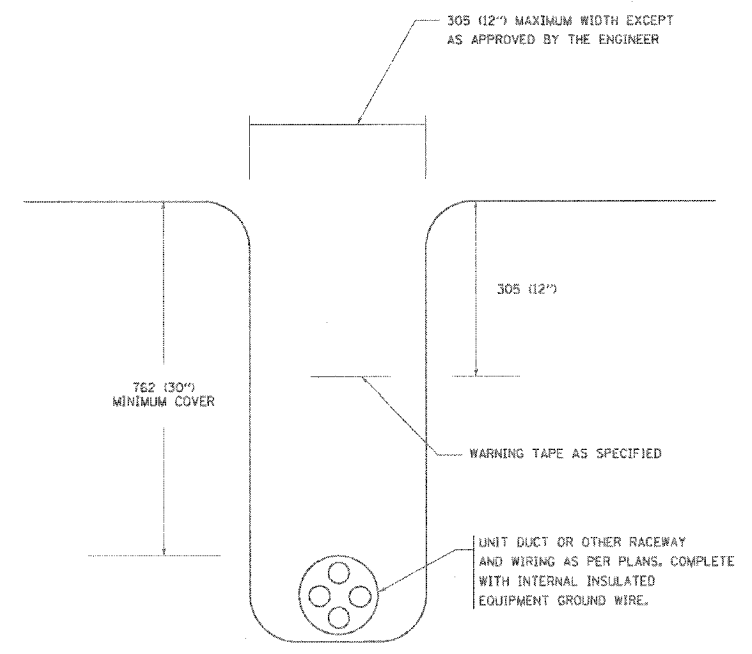
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2/15/2006  
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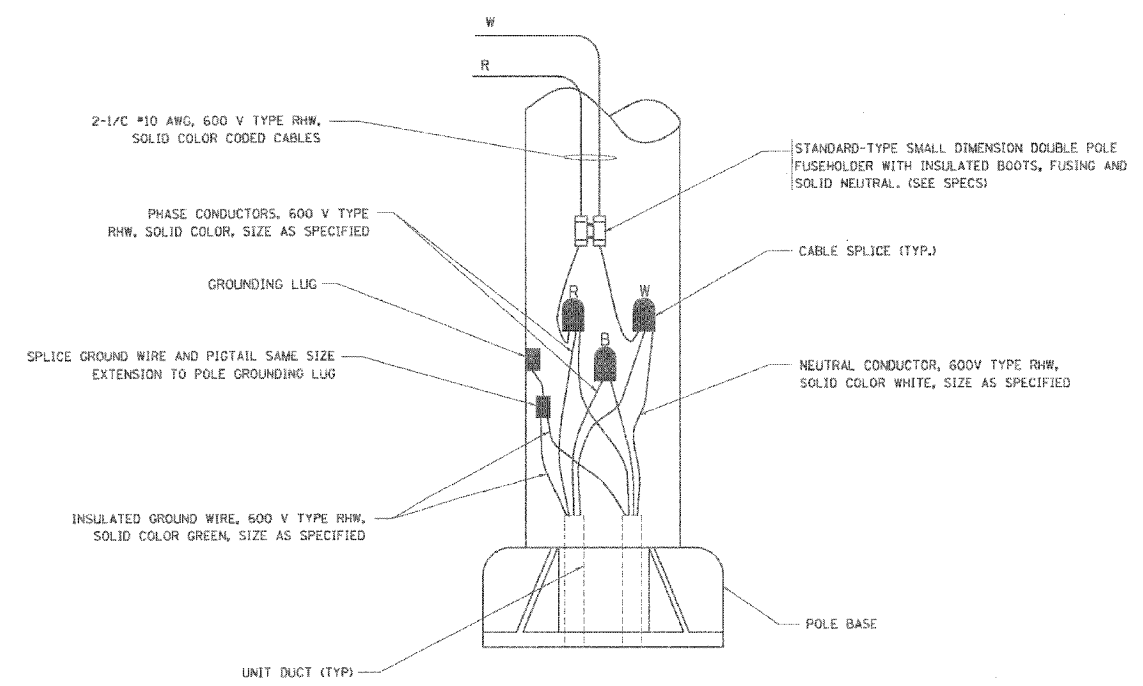
BE-900  
REVISION DATE: 12-12-2005



TYPICAL SPLICE DETAIL  
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL  
N.T.S.



POLE WIRING DETAIL  
N.T.S.

REVISIONS	
NAME	DATE

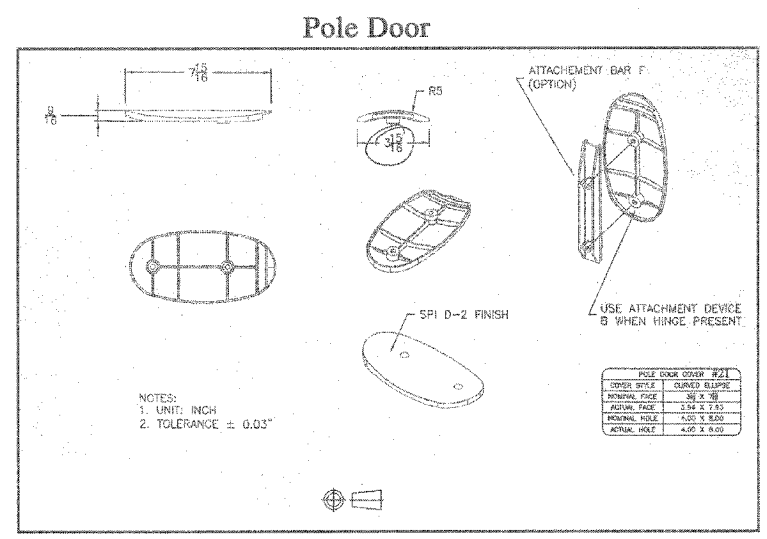
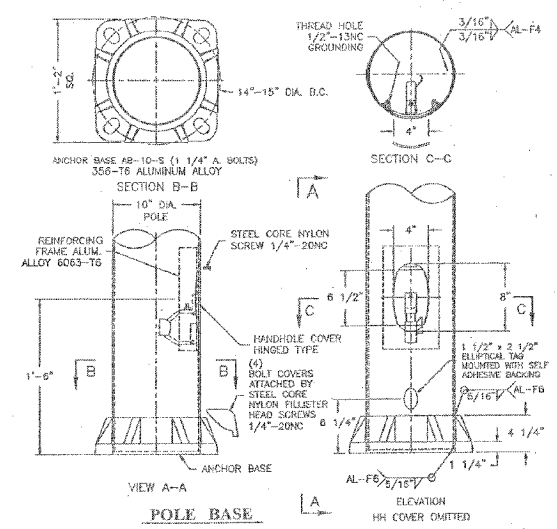
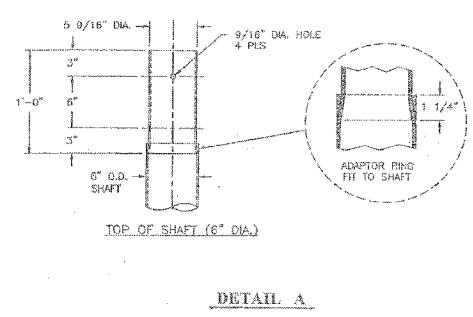
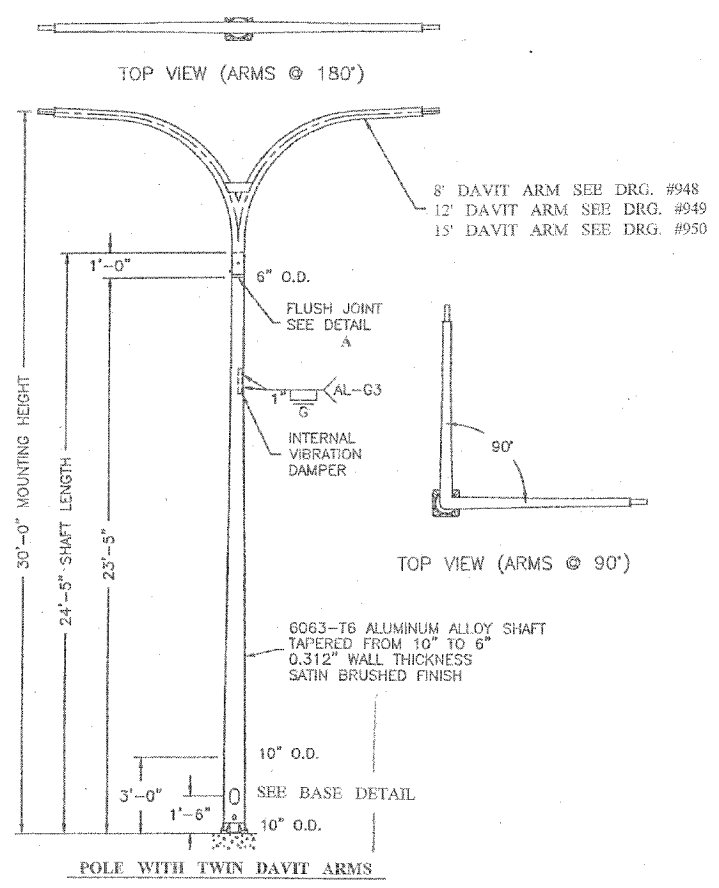
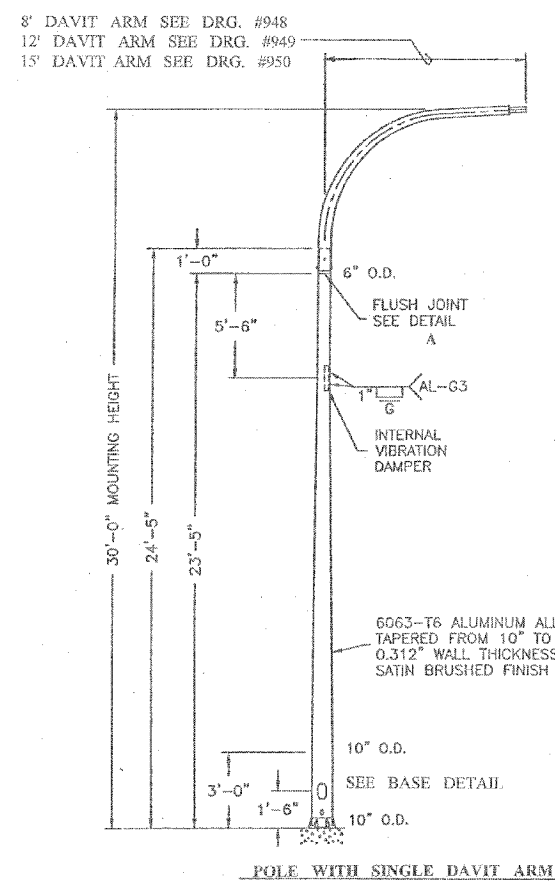
ILLINOIS DEPARTMENT OF TRANSPORTATION  
MISC. ELECTRICAL DETAILS  
SHEET A  
SCALE: VERT. HORIZ. DATE: 4/25/2006  
DRAWN BY: BE-702  
CHECKED BY:  
REVISION DATE:

NO.	BY	DATE	DESCRIPTION
REVISIONS			
EJM ENGINEERING, INC. 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<p align="center"><b>FOSTER AVE. BRIDGE OVER I-94</b></p>			
<p align="center"><b>STANDARD ELECTRICAL DRAWINGS</b></p>			
CONSULTANT: R/JN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
<p align="center"><b>CITY OF CHICAGO</b></p>			
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN BY: JDM	SHEET NO.		<p align="center"><b>E-11</b></p>
CHECKED BY: RES			
APPROVED BY:			
DATE: JUNE 30, 2006			
SCALE: NONE			
CONTRACT NO.		PROJECT NO. E-4-492	

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USER NO: 5

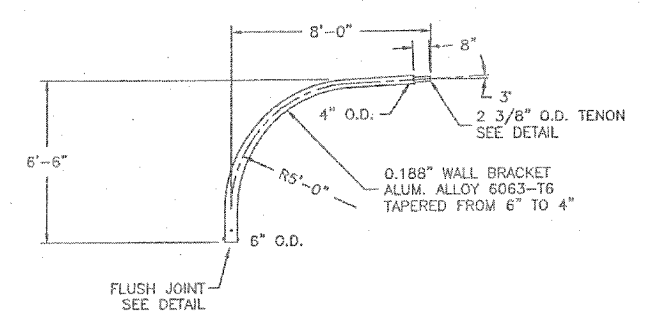
F.A.I.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 60A65				



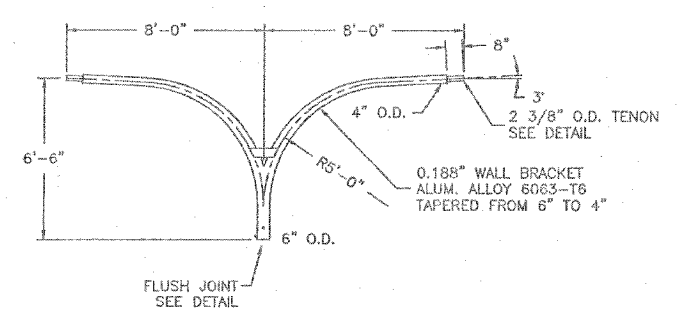
<b>ALUMINUM DAVIT POLE</b>			
10" x 6" x 24'-5"			
FOR ARTERIAL STREETS			
CITY OF CHICAGO			
DEPT. OF STREETS AND SANITATION			
BUREAU OF ELECTRICITY			
DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN:	GENY DRAFTSMAN	ENGINEER:	
SUPERVISING ENGINEER:	BLEC. CERRA, ENR	DWG. NO.:	941
ENGINEER OF ELECTRICITY:		DATE:	1-29-02
GEN. SUPV. OF ELECTRICITY:			
DEPT. OF STREETS AND SANITATION			
BUREAU OF ELECTRICITY			
DIVISION OF ELECTRICAL ENGINEERING			

NO.	BY	DATE	REVISIONS
EJM ENGINEERING, INC. 411 South Wells Street Suite 800 Chicago, Illinois 60607			
FOSTER AVE. BRIDGE OVER I-94			
STANDARD ELECTRICAL DRAWINGS			
CONSULTANT: R.J.M. GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
CITY OF CHICAGO			
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO			
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN:	JUM	SHEET NO.:	
CHECKED:	RES		
APPROVED:			
DATE:	JUNE 30, 2006		
SCALE:	NONE		
CONTRACT NO.:		PROJECT NO. E-4-42	

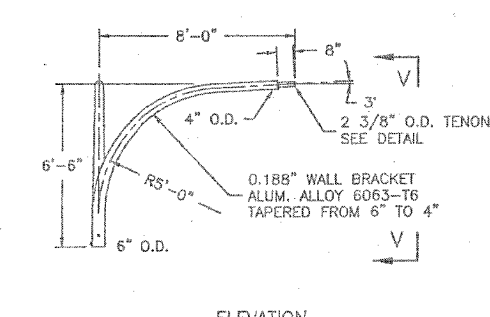
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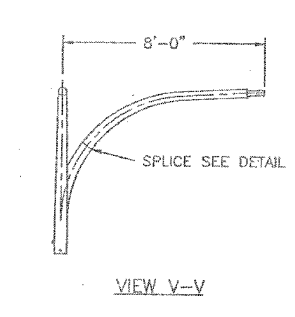
SINGLE DAVIT ARM



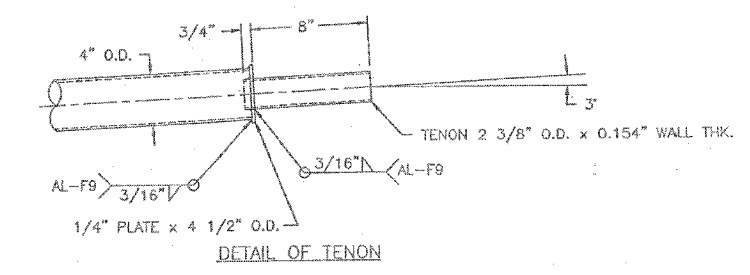
TWIN DAVIT ARM AT 180°



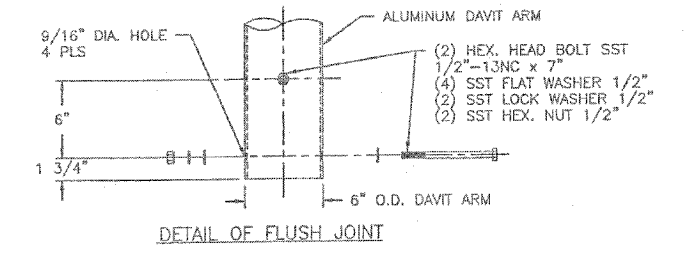
TWIN DAVIT ARM AT 90°



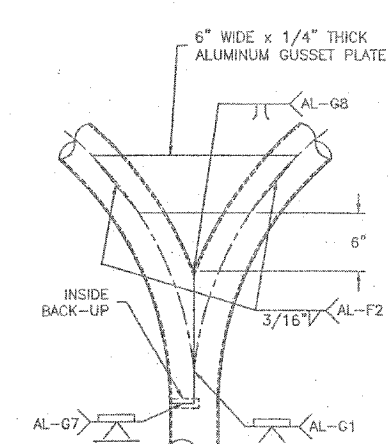
VIEW V-V



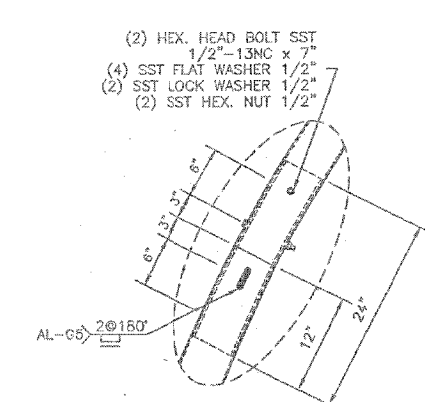
DETAIL OF TENON



DETAIL OF FLUSH JOINT



TWIN ARM (180°) WELD DETAIL

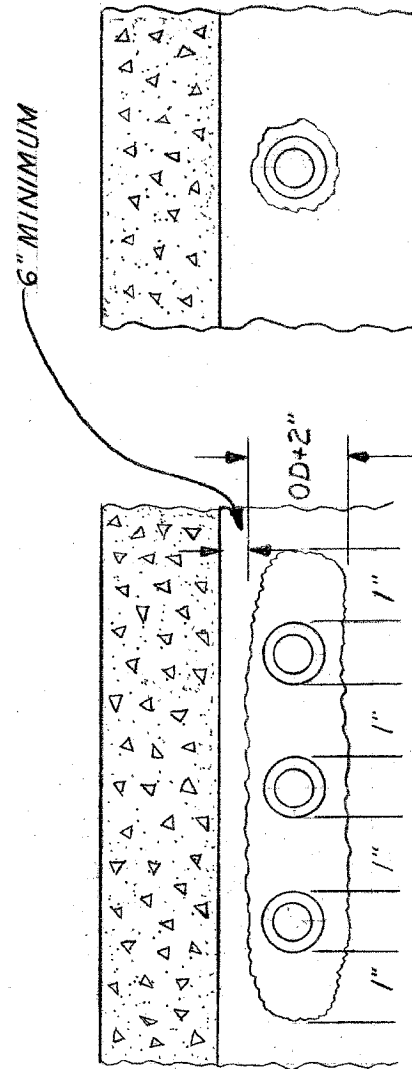
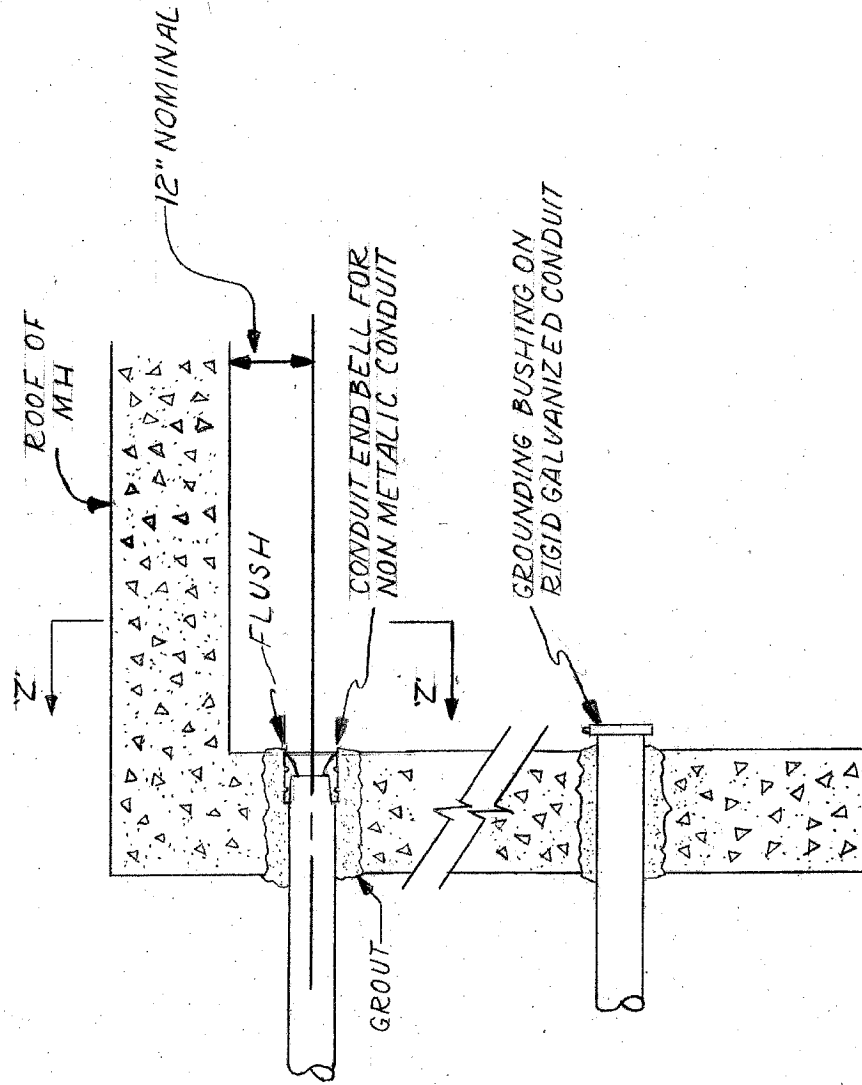


SPLICE DETAIL

<b>ALUMINUM DAVIT ARM</b> 6" x 8'-0"	
<b>CITY OF CHICAGO</b> DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICITY	
DESIGNED BY SUPERVISING ENGINEER, ELEC. DESIGN GROUP	ENGINEER
ENGINEER-IN-CHARGE	DWG. NO. <b>948</b>
DEPT. Supt. of Construction	DATE: 1-29-02
DEPUTY COMMISSIONER	SCALE

NO.	BY	DATE	DESCRIPTION
REVISIONS			
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<b>FOSTER AVE. BRIDGE OVER I-94</b>			
<b>STANDARD ELECTRICAL DRAWINGS</b>			
CONTRACT			
RJN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAWN JIM	CHECKED RES	DATE JUNE 30, 2006	SHEET NO. <b>E-13</b>
APPROVED			PROJECT NO. E-4-442

*CONDUIT INSTALLATION THROUGH EXISTING  
MANHOLE OR HANDHOLE WALL*

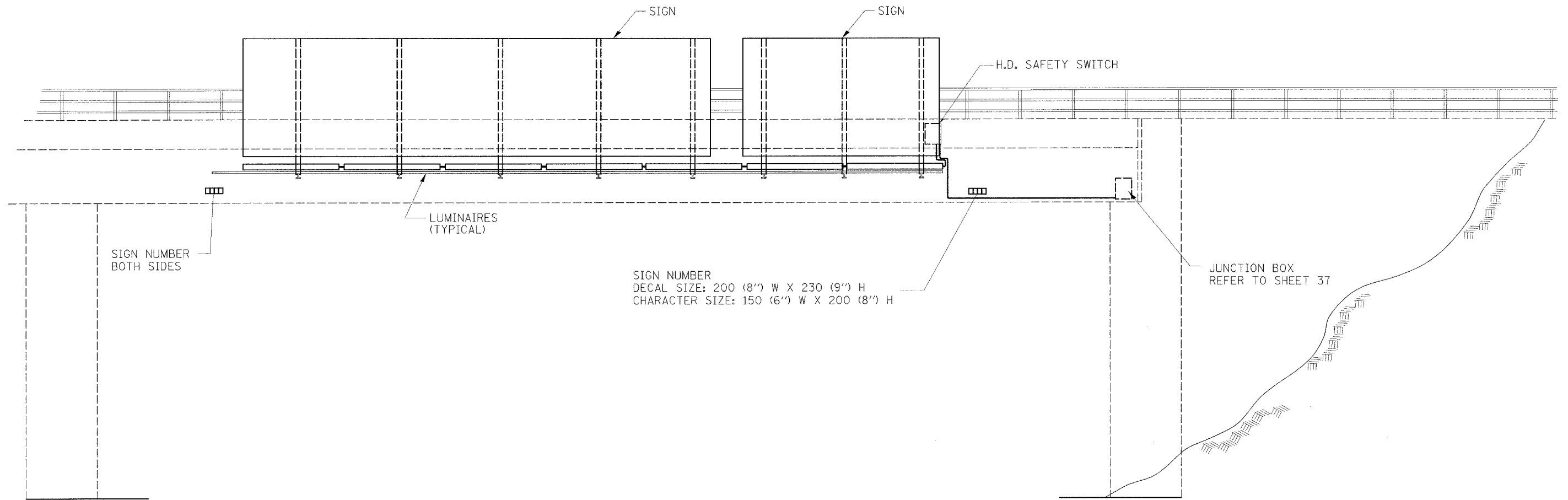


**OPENING THROUGH WALL TO BE KEPT TO MINIMUM SIZE TO ADMIT CONDUIT AND SUFFICIENT GROUT TO ASSURE SEALING WALL.**

<i>INSTALLATION METHOD OF INSTALLING CONDUIT THRU MANHOLE WALL</i>	
<b>CITY OF CHICAGO</b> DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
<b>DRAWN</b> A.M. JOHANSON	<b>CHECKED</b> R. SYC KOWSKI
<b>DRG. NO.</b> 814	
<b>DATE</b> 5/13/81	
<b>SCALE</b> 8 1/2" X 14"	
<b>REVISIONS</b> N.T.S.	

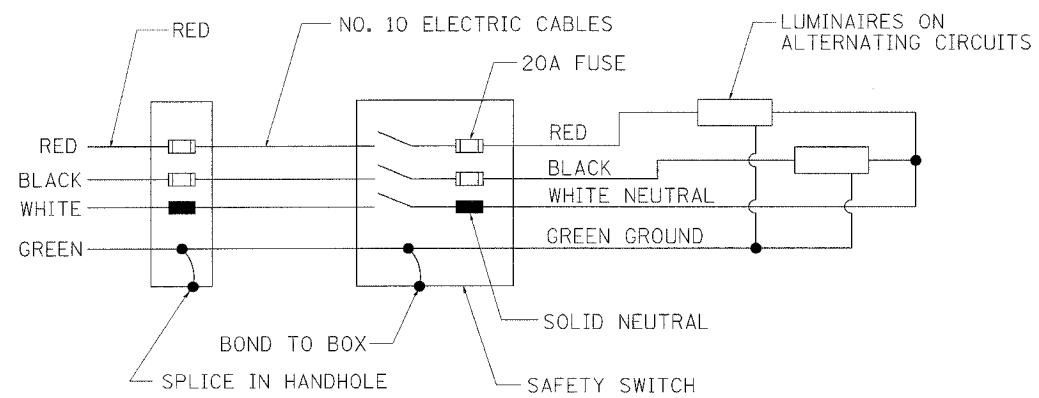
<b>NO.</b>	<b>BY</b>	<b>DATE</b>	<b>DESCRIPTION</b>
<small>REVISIONS</small>			
<b>EJM ENGINEERING, INC.</b> 411 South Wells Street Suite 800 Chicago, Illinois 60607			
<b>FOSTER AVE. BRIDGE OVER I-94</b>			
<b>STANDARD ELECTRICAL DRAWINGS</b>			
<small>CONSULTANT</small> RJN GROUP, INC. 200 W. FRONT ST. WHEATON, IL 60187			
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
<small>DRAWN</small> JDM	<small>CHECKED</small> RES	<small>APPROVED</small>	<small>SHEET NO.</small> <b>E-14</b>
<small>DATE</small> JUNE 30, 2006			
<small>SCALE</small>			
<small>CONTRACT NO.</small>	<small>PROJECT NO.</small> E-4-442		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	47
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

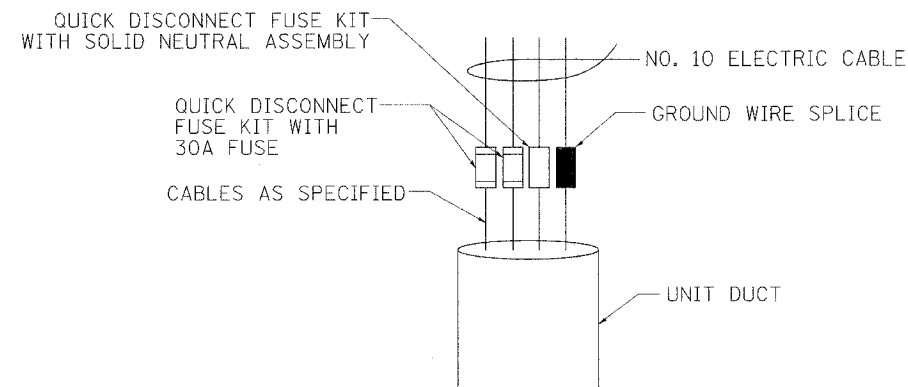


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED RIGID METALIC CONDUIT, PVC COATED (GRMC, PVC)
3. THE USE OF LIQUID TIGHT METAL CONDUIT (TYPE LFMC) SHALL BE LIMITED TO LOCATIONS WHERE MOVEMENT IS ANTICIPATED AND SHALL NOT EXCEED 1.5M (5') IN LENGTH
4. ALL WORK INDICATED SHALL BE INCLUDED IN THE PAY ITEM FOR ELECTRIC CONNECTION TO SIGN STRUCTURE



WIRING DIAGRAM



DETAIL A

NOTE: THIS DRAWING PREPARED BY IDOT

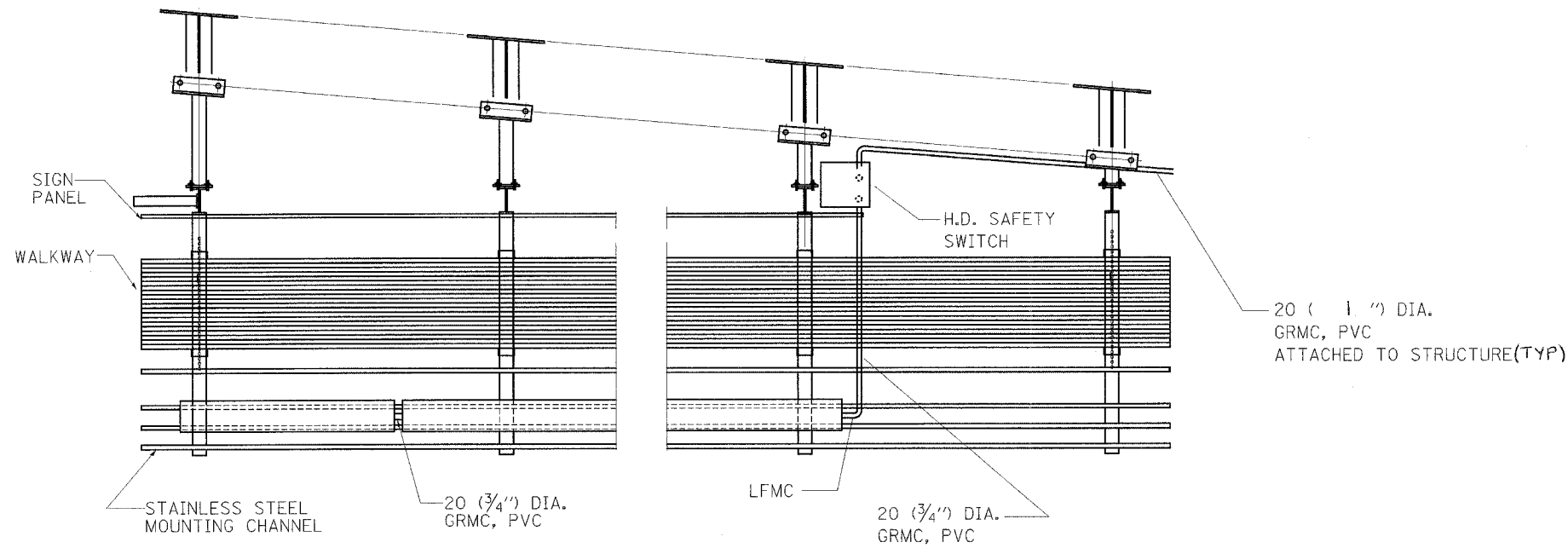
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ELECTRIC CONNECTION  
TO SIGN STRUCTURE  
BRIDGE MOUNTED  
1 OF 2

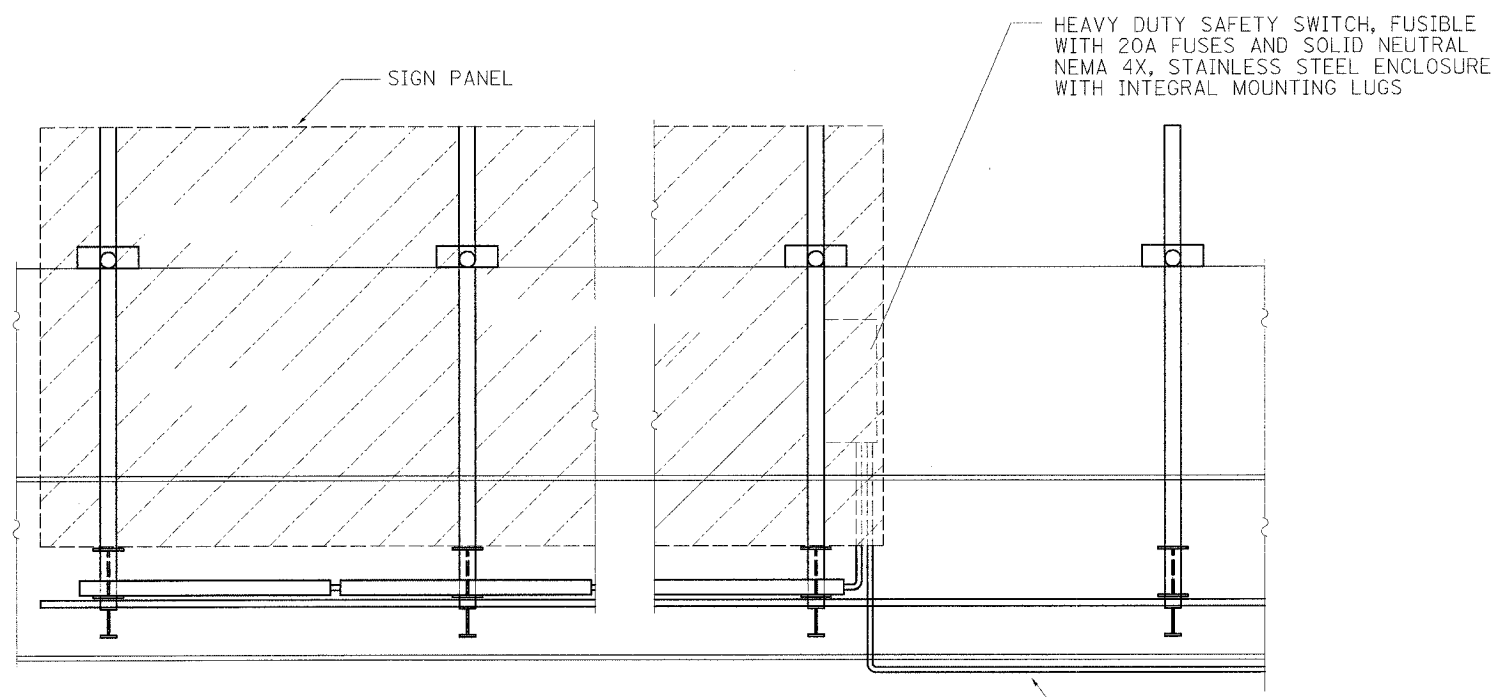
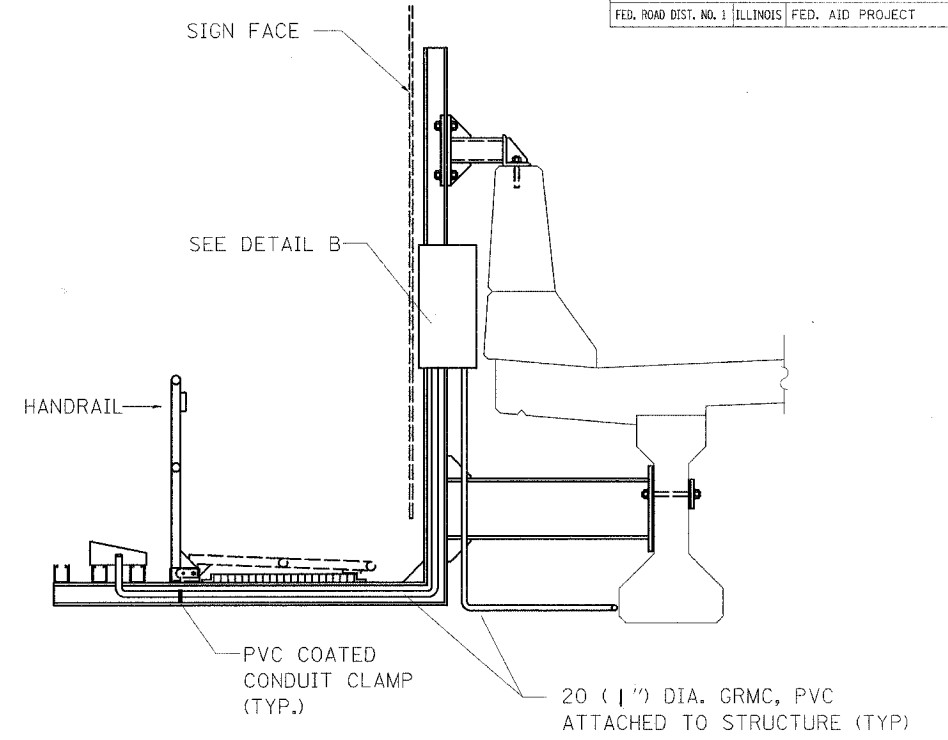
SCALE: VERT. N/A  
HORIZ. N/A  
DATE JUNE 30, 2006

DRAWN BY  
CHECKED BY

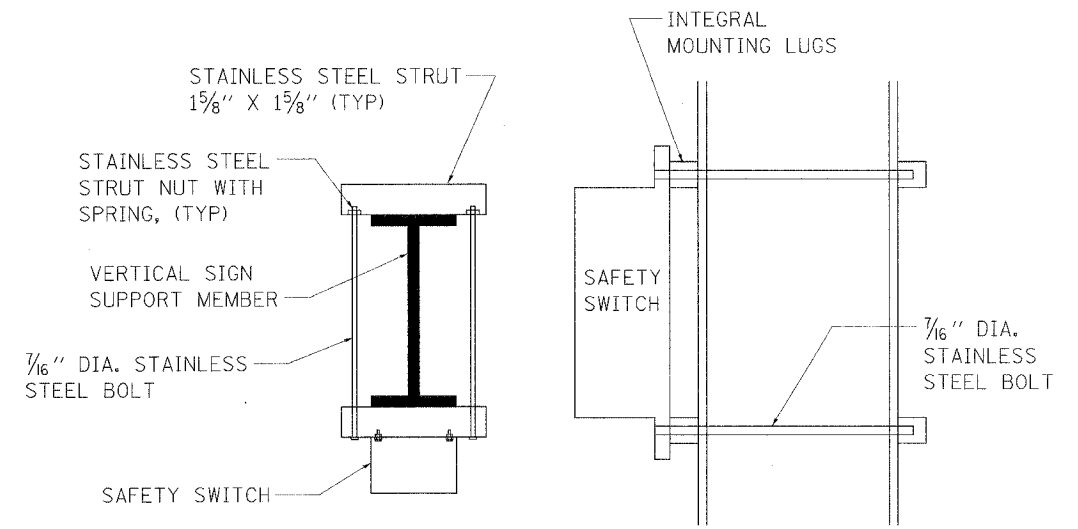
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	48
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



TOP VIEW



ELEVATION VIEW



TOP VIEW

SIDE VIEW

DETAIL B

NOTE: THIS DRAWING PREPARED BY IDOT

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		ELECTRIC CONNECTION TO SIGN STRUCTURE BRIDGE MOUNTED 2 OF 2

SCALE: VERT. HORIZ. DATE DRAWN BY CHECKED BY

Rev.

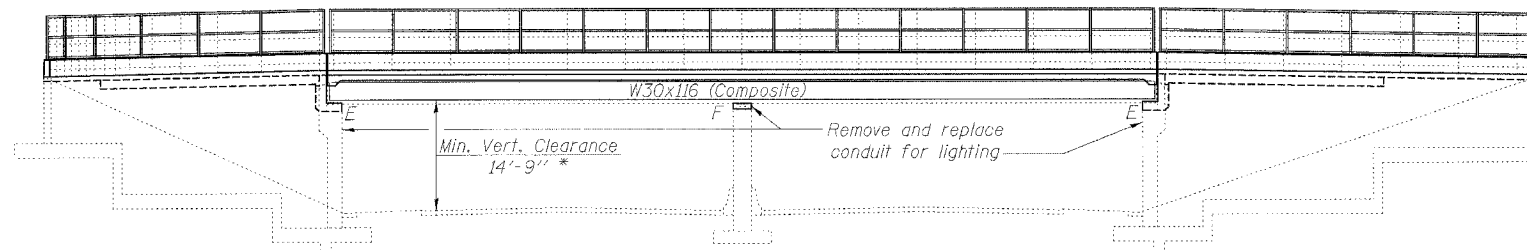


Benchmark: Brass disk in NE sidewalk, Station ±101+08.5, ±33.3' Lt. Elev. 611.24

Existing Structure: SN 016-0246, two-span 116'-0" back to back of abutments, 75'-0" out to out. Superstructure consists of a R.C. deck supported by wide-flange steel girders (which support the existing Protective Shield) on closed abutments. Built as F.A. Route 99, Sec. 263-0101.9-15d in 1956. Bridge deck overlaid and patched in 1982, and repairs performed in 2000. Traffic to be detoured during construction.

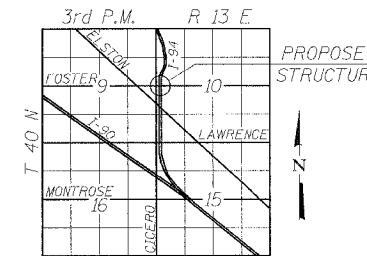
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / TOTAL SHEETS
FAU 1360	0101BR-2	COOK	50	49	26 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT -			

Contract #60A65

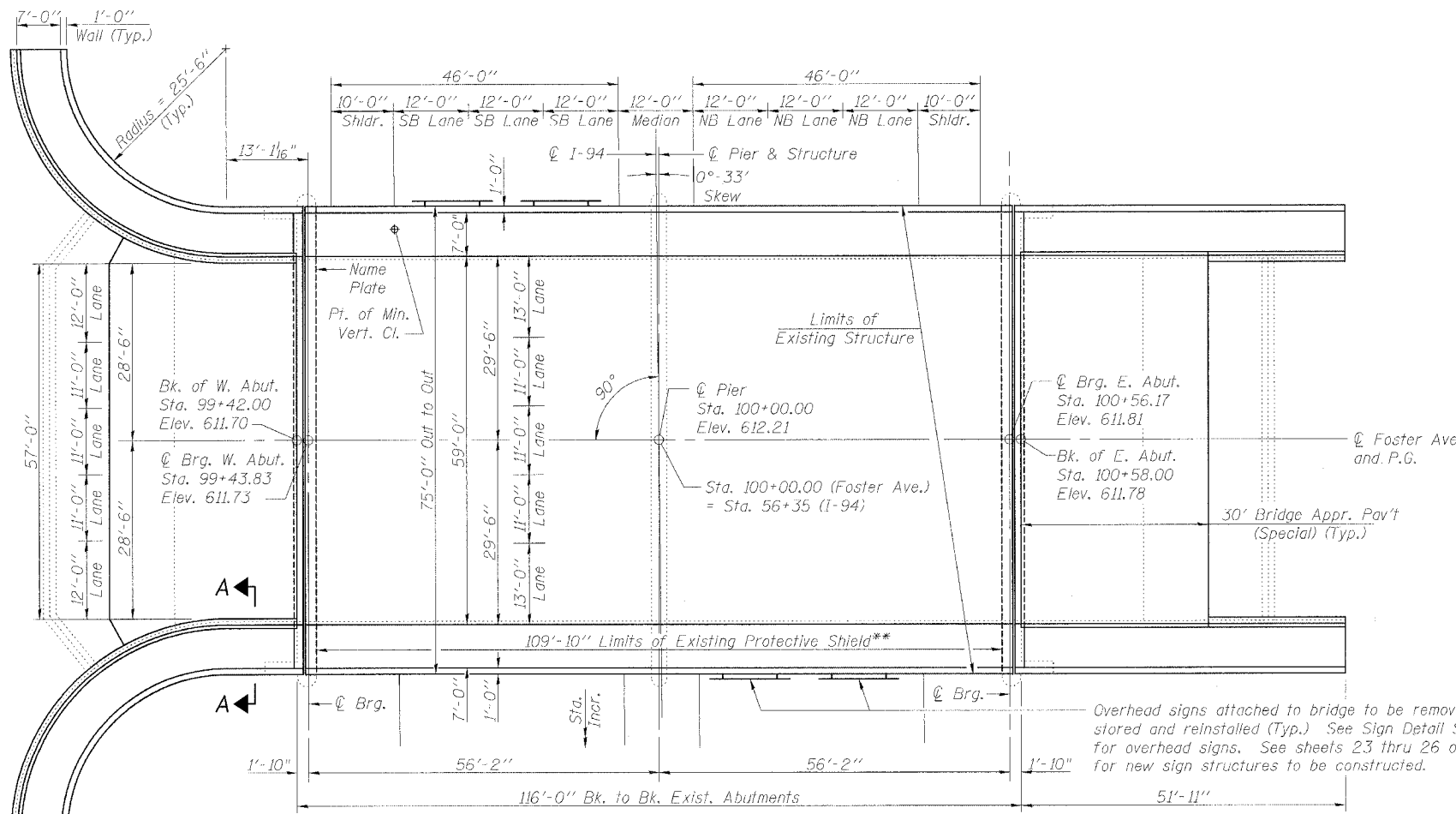


\*Derived from existing clearance measured during 2005 survey

**ELEVATION**



**LOCATION SKETCH**



**PLAN**

THE EXISTING PROTECTIVE SHIELD SHOULD MEET THE REQUIREMENTS AND BE REMOVED AS PER PROVISIONS OF CHECK SHEET #22. THE COSTS OF NEEDED REINFORCEMENT OF THE EXISTING PROTECTIVE SHIELD, IF ANY, TO MEET THE REQUIREMENTS OF CHECK SHEET #22, AND THE REMOVAL OF EXISTING PROTECTIVE SHIELD SHALL BE INCLUDED IN THE PAY ITEM "REMOVAL OF EXISTING SUPERSTRUCTURES"

STATION 100+00  
REBUILT 20 BY  
STATE OF ILLINOIS  
F.A. RT. 1360 SEC. 0101BR-2  
LOADING HS20  
STR. NO. 016-0246

**NAME PLATE**

See Std. 515001  
Provide new name plate directly above existing name plate on west abutment face. Fasten to existing abutment by means of four brass or bronze bolts with countersunk heads. Cost included with Name Plates.

**LOADING HS20-44**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2002 AASHTO (17th Ed.)

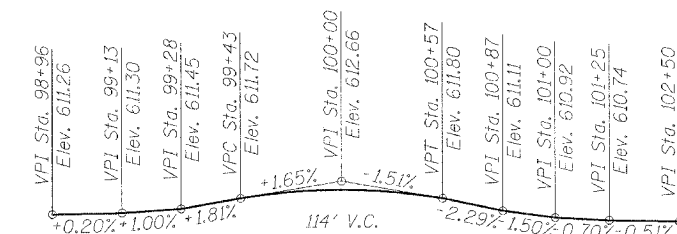
**DESIGN STRESSES**

**FIELD UNITS**  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (reinforcement)  
f<sub>y</sub> = 50,000 psi (M270 Grade 50)  
f<sub>y</sub> = 36,000 psi (M270 Grade 36)

**EXISTING CONSTRUCTION**  
f<sub>s</sub> = 20,000 p.s.i. (reinforcement)  
f<sub>c</sub> = 1,200 p.s.i. (concrete)

**SEISMIC DATA**

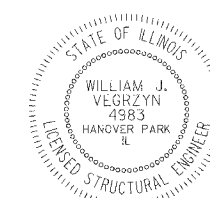
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.04  
Site Coefficient (S) = 1.0



**PROFILE GRADE FOSTER AVENUE**  
(Along C of Roadway)

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Peterson*  
ENGINEER OF BRIDGES AND STRUCTURES



*William J. Vegzyn* 6-27-06  
Expires 11-30-06

**rjngroup**  
Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
FOSTER AVE OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

DRAWN BY BLB  
CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1360	0101BR-2	COOK	90	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2  
26 SHEETS

Contract #60A65

### GENERAL NOTES

Fasteners shall be high strength bolts. Bolts  $7/8"$   $\phi$ , open holes  $15/16"$   $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 18,138 lbs. (Grade 36),  
137,929 lbs. (Grade 50)

Field welding of construction accessories to beams will not be permitted.

Anchor bolts shall be set before bolting diaphragms over supports.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $1/8$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. For Type I Elastomeric Bearings, two  $1/8"$  adjusting shims shall be provided for each bearing and placed as detailed.

Bridge Seat Sealer shall be applied to the seat area of the abutments.

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

The 4-3/2" diameter ducts on the north side of the structure contain asbestos. The Contractor shall follow the Special Provision for Removal of Asbestos Cement Conduit.

All Construction joints shall be bonded.

If the Contractor elects to use cantilever forming brackets on the exterior beams, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06 of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

The organic zinc rich primer/ epoxy/ urethane paint system shall be used for painting of new structural steel except where otherwise noted. The anti-rust system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners, and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures".

Removal of existing bridge rail, fence, and sign structures are included with the cost of Removal of Existing Superstructure.

### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		23.4	23.4
Concrete Superstructure	Cu. Yd.	288.1		288.1
Concrete Structures	Cu. Yd.		65.9	65.9
Reinforcement Bars, Epoxy Coated	Pound	62,240	11,130	73,370
Bridge Deck Grooving	Sq. Yd.	716		716
Protective Coat	Sq. Yd.	1087		1087
Bridge Seat Sealer	Sq. Ft.	320		320
Bridge Joint System (Expansion), 1"	Foot	151		151
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	4260		4260
Elastomeric Bearing Assembly, Type I	Each	20		20
Pedestrian Railing	Foot	435		435
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		797	797
Name Plates	Each		1	1
Overhead Sign Structure - Bridge Mounted	Foot	97.2		97.2
Removal of Asbestos Cement Conduit	Foot	464		464
Bar Splicers	Each	124		124

Sheet No.

Description

1. General Plan and Elevation
2. General Notes and Total Bill of Material
3. Deck Elevations - I
4. Deck Elevations - II
5. Deck Plan
6. Superstructure Cross Section and Details
7. Superstructure Parapet and Details
8. Bridge Joint System - Expansion (Proformod Joint Seal)
9. Bridge Joint System - Expansion (Alternate - Strip Seal)
10. Pedestrian Railing
11. Framing Plan
12. Framing Details and Moment and Reaction Tables
13. Bearing Details
14. Anchor Bolt Details for Bearings
15. Abutment Details - I
16. Abutment Details - II
17. Abutment Details - III
18. Abutment Details - IV
19. Pier Details
20. East and West Abutment Repairs
21. Pier Repairs
22. Bar Splicer Assembly Details
23. Bridge Mount Sign Structures General Plan and Elevation
24. Bridge Mount Sign Structures Walkway and Connection Details
25. Bridge Mount Sign Structures Connection Details
26. Bridge Mount Sign Structures Walkway Details

**rjngroup**

Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND TOTAL BILL OF MATERIAL  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

DRAWN BY LCM  
CHECKED BY BLB

Contract #60A65

**BEAM 1**

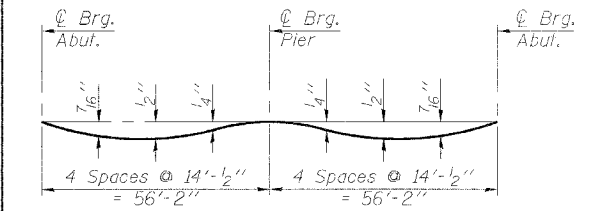
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	-34.125	611.190	611.190
☉ Brg. W. Abut.	99+43.833	-34.125	611.221	611.221
A	99+53.833	-34.125	611.370	611.399
B	99+63.833	-34.125	611.491	611.534
C	99+73.833	-34.125	611.584	611.625
D	99+83.833	-34.125	611.650	611.675
E	99+93.833	-34.125	611.688	611.695
☉ Pier	100+00.000	-34.125	611.698	611.698
F	100+10.000	-34.125	611.691	611.704
G	100+20.000	-34.125	611.656	611.688
H	100+30.000	-34.125	611.594	611.637
I	100+40.000	-34.125	611.504	611.543
J	100+50.000	-34.125	611.386	611.405
☉ Brg. E. Abut.	100+56.167	-34.125	611.300	611.300
Bk. E. Abut.	100+58.000	-34.125	611.265	611.265

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	-26.542	611.304	611.304
☉ Brg. W. Abut.	99+43.833	-26.542	611.335	611.335
A	99+53.833	-26.542	611.484	611.512
B	99+63.833	-26.542	611.605	611.647
C	99+73.833	-26.542	611.698	611.738
D	99+83.833	-26.542	611.764	611.789
E	99+93.833	-26.542	611.802	611.809
☉ Pier	100+00.000	-26.542	611.811	611.811
F	100+10.000	-26.542	611.805	611.818
G	100+20.000	-26.542	611.770	611.802
H	100+30.000	-26.542	611.708	611.751
I	100+40.000	-26.542	611.618	611.657
J	100+50.000	-26.542	611.500	611.519
☉ Brg. E. Abut.	100+56.167	-26.542	611.414	611.414
Bk. E. Abut.	100+58.000	-26.542	611.379	611.379

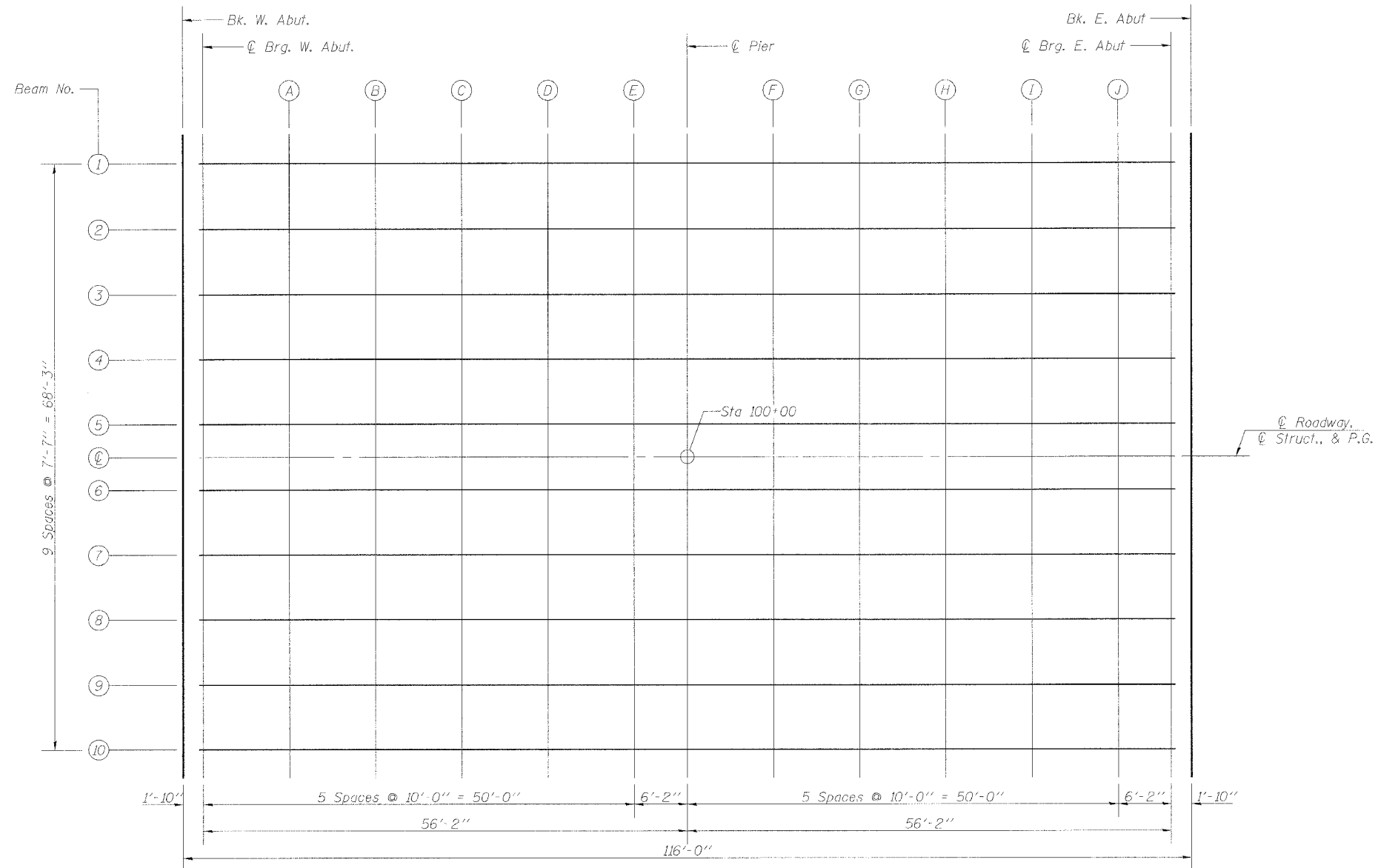
**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	-18.958	611.417	611.417
☉ Brg. W. Abut.	99+43.833	-18.958	611.449	611.449
A	99+53.833	-18.958	611.598	611.626
B	99+63.833	-18.958	611.719	611.761
C	99+73.833	-18.958	611.812	611.852
D	99+83.833	-18.958	611.878	611.903
E	99+93.833	-18.958	611.916	611.923
☉ Pier	100+00.000	-18.958	611.925	611.925
F	100+10.000	-18.958	611.918	611.932
G	100+20.000	-18.958	611.884	611.916
H	100+30.000	-18.958	611.822	611.864
I	100+40.000	-18.958	611.732	611.771
J	100+50.000	-18.958	611.614	611.633
☉ Brg. E. Abut.	100+56.167	-18.958	611.527	611.527
Bk. E. Abut.	100+58.000	-18.958	611.493	611.493

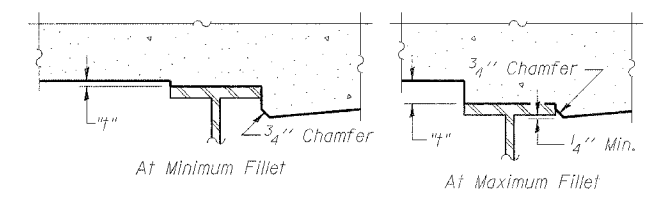


**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above and on Sheet 4 of 26.

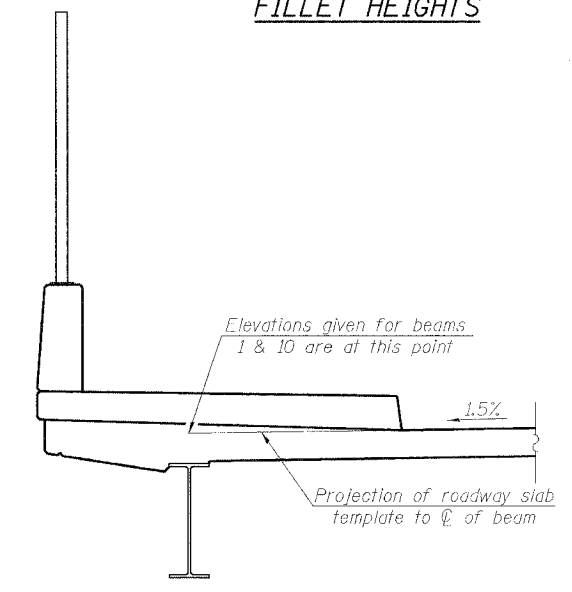


**PLAN**



To determine "h": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection" shown, minus slab thickness, equals the fillet heights "h" above top flange of beams.

**FILLET HEIGHTS**



<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>DECK ELEVATIONS - I FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO. 016-0246</p>
	<p>DATE: 4/30/2006</p> <p>DRAWN BY LCM CHECKED BY BLB</p>

Contract #60A65

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	-11.375	611.531	611.531
☉ Brg. W. Abut.	99+43.833	-11.375	611.562	611.562
A	99+53.833	-11.375	611.711	611.740
B	99+63.833	-11.375	611.832	611.875
C	99+73.833	-11.375	611.926	611.966
D	99+83.833	-11.375	611.991	612.017
E	99+93.833	-11.375	612.029	612.036
☉ Pier	100+00.000	-11.375	612.039	612.039
F	100+10.000	-11.375	612.032	612.046
G	100+20.000	-11.375	611.998	612.030
H	100+30.000	-11.375	611.935	611.978
I	100+40.000	-11.375	611.845	611.884
J	100+50.000	-11.375	611.728	611.747
☉ Brg. E. Abut.	100+56.167	-11.375	611.641	611.641
Bk. E. Abut.	100+58.000	-11.375	611.606	611.606

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	-3.792	611.645	611.645
☉ Brg. W. Abut.	99+43.833	-3.792	611.676	611.676
A	99+53.833	-3.792	611.825	611.854
B	99+63.833	-3.792	611.946	611.989
C	99+73.833	-3.792	612.040	612.080
D	99+83.833	-3.792	612.105	612.131
E	99+93.833	-3.792	612.143	612.150
☉ Pier	100+00.000	-3.792	612.153	612.153
F	100+10.000	-3.792	612.146	612.160
G	100+20.000	-3.792	612.111	612.143
H	100+30.000	-3.792	612.049	612.092
I	100+40.000	-3.792	611.959	611.998
J	100+50.000	-3.792	611.841	611.861
☉ Brg. E. Abut.	100+56.167	-3.792	611.755	611.755
Bk. E. Abut.	100+58.000	-3.792	611.720	611.720

**☉ OF STRUCTURE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	0.000	611.702	611.702
☉ Brg. W. Abut.	99+43.833	0.000	611.733	611.733
A	99+53.833	0.000	611.882	611.911
B	99+63.833	0.000	612.003	612.046
C	99+73.833	0.000	612.096	612.137
D	99+83.833	0.000	612.162	612.187
E	99+93.833	0.000	612.200	612.207
☉ Pier	100+00.000	0.000	612.210	612.210
F	100+10.000	0.000	612.203	612.216
G	100+20.000	0.000	612.168	612.200
H	100+30.000	0.000	612.106	612.149
I	100+40.000	0.000	612.016	612.055
J	100+50.000	0.000	611.898	611.917
☉ Brg. E. Abut.	100+56.167	0.000	611.812	611.812
Bk. E. Abut.	100+58.000	0.000	611.777	611.777

**BEAM 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	3.792	611.645	611.645
☉ Brg. W. Abut.	99+43.833	3.792	611.676	611.676
A	99+53.833	3.792	611.825	611.854
B	99+63.833	3.792	611.946	611.989
C	99+73.833	3.792	612.040	612.080
D	99+83.833	3.792	612.105	612.131
E	99+93.833	3.792	612.143	612.150
☉ Pier	100+00.000	3.792	612.153	612.153
F	100+10.000	3.792	612.146	612.160
G	100+20.000	3.792	612.111	612.143
H	100+30.000	3.792	612.049	612.092
I	100+40.000	3.792	611.959	611.998
J	100+50.000	3.792	611.841	611.861
☉ Brg. E. Abut.	100+56.167	3.792	611.755	611.755
Bk. E. Abut.	100+58.000	3.792	611.720	611.720

**BEAM 7**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	11.375	611.531	611.531
☉ Brg. W. Abut.	99+43.833	11.375	611.562	611.562
A	99+53.833	11.375	611.711	611.740
B	99+63.833	11.375	611.832	611.875
C	99+73.833	11.375	611.926	611.966
D	99+83.833	11.375	611.991	612.017
E	99+93.833	11.375	612.029	612.036
☉ Pier	100+00.000	11.375	612.039	612.039
F	100+10.000	11.375	612.032	612.046
G	100+20.000	11.375	611.998	612.030
H	100+30.000	11.375	611.935	611.978
I	100+40.000	11.375	611.845	611.884
J	100+50.000	11.375	611.728	611.747
☉ Brg. E. Abut.	100+56.167	11.375	611.641	611.641
Bk. E. Abut.	100+58.000	11.375	611.606	611.606

**BEAM 8**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	18.958	611.417	611.417
☉ Brg. W. Abut.	99+43.833	18.958	611.449	611.449
A	99+53.833	18.958	611.598	611.626
B	99+63.833	18.958	611.719	611.761
C	99+73.833	18.958	611.812	611.852
D	99+83.833	18.958	611.878	611.903
E	99+93.833	18.958	611.916	611.923
☉ Pier	100+00.000	18.958	611.925	611.925
F	100+10.000	18.958	611.918	611.932
G	100+20.000	18.958	611.884	611.916
H	100+30.000	18.958	611.822	611.864
I	100+40.000	18.958	611.732	611.771
J	100+50.000	18.958	611.614	611.633
☉ Brg. E. Abut.	100+56.167	18.958	611.527	611.527
Bk. E. Abut.	100+58.000	18.958	611.493	611.493

**BEAM 9**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	26.542	611.304	611.304
☉ Brg. W. Abut.	99+43.833	26.542	611.335	611.335
A	99+53.833	26.542	611.484	611.512
B	99+63.833	26.542	611.605	611.647
C	99+73.833	26.542	611.698	611.738
D	99+83.833	26.542	611.764	611.789
E	99+93.833	26.542	611.802	611.809
☉ Pier	100+00.000	26.542	611.811	611.811
F	100+10.000	26.542	611.805	611.818
G	100+20.000	26.542	611.770	611.802
H	100+30.000	26.542	611.708	611.751
I	100+40.000	26.542	611.618	611.657
J	100+50.000	26.542	611.500	611.519
☉ Brg. E. Abut.	100+56.167	26.542	611.414	611.414
Bk. E. Abut.	100+58.000	26.542	611.379	611.379

**BEAM 10**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflections
Bk. W. Abut.	99+42.000	34.124	611.190	611.190
☉ Brg. W. Abut.	99+43.833	34.124	611.221	611.221
A	99+53.833	34.124	611.370	611.399
B	99+63.833	34.124	611.491	611.534
C	99+73.833	34.124	611.584	611.625
D	99+83.833	34.124	611.650	611.675
E	99+93.833	34.124	611.688	611.695
☉ Pier	100+00.000	34.124	611.698	611.698
F	100+10.000	34.124	611.691	611.704
G	100+20.000	34.124	611.656	611.688
H	100+30.000	34.124	611.594	611.637
I	100+40.000	34.124	611.504	611.543
J	100+50.000	34.124	611.386	611.405
☉ Brg. E. Abut.	100+56.167	34.124	611.300	611.300
Bk. E. Abut.	100+58.000	34.124	611.265	611.265

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200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

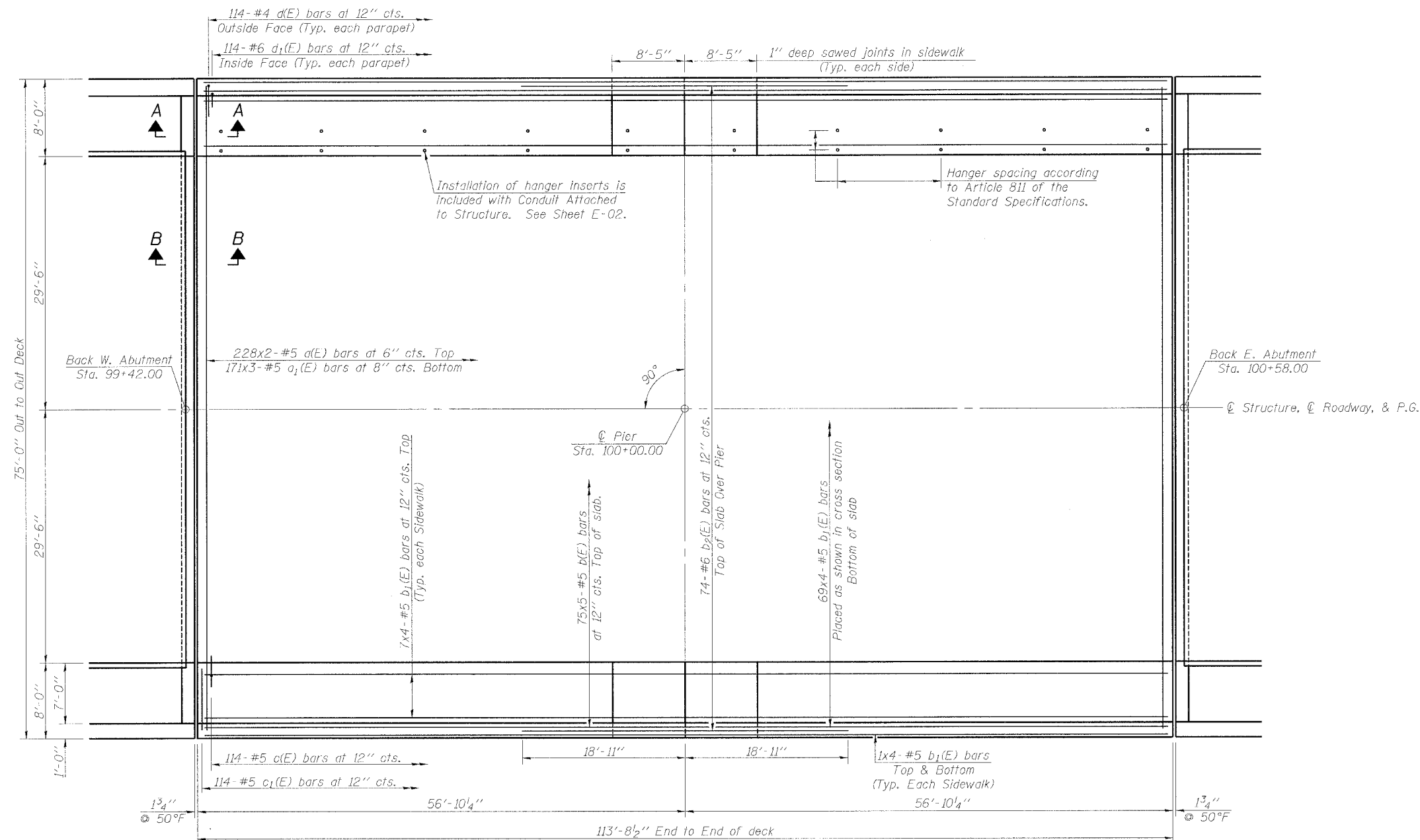
DECK ELEVATIONS - II  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

DRAWN BY LCM  
CHECKED BY BLB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
FAU 1360	0101BR-2	COOK	90	53	26 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #60A65

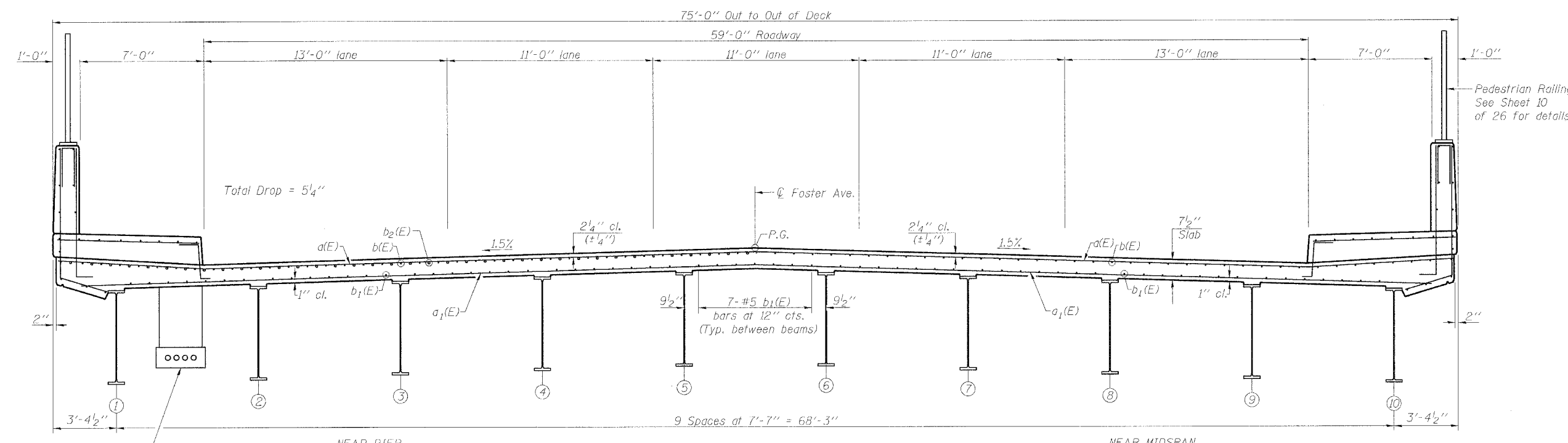


**NOTES**

- See Sheets 6 and 7 of 26 for Superstructure Details, Parapet Details, Section A-A and B-B, and Bill of Material.
- Minimum lap length for #5 Bars = 2'-2".
- Reinforcement bars designated (E) shall be epoxy coated.
- Bars indicated thus 75x5-#5 etc. indicates 75 lines of bars with 5 lengths per line.
- See Sheets 23 thru 26 of 26 for Bridge Mount Sign details.

**PLAN BRIDGE DECK**

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	<p>DECK PLAN FOSTER AVE. OVER I-94 FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO. 016-0246</p>
	<p>DATE: 4/30/2006</p> <p>DRAWN BY JMT CHECKED BY BLB</p>



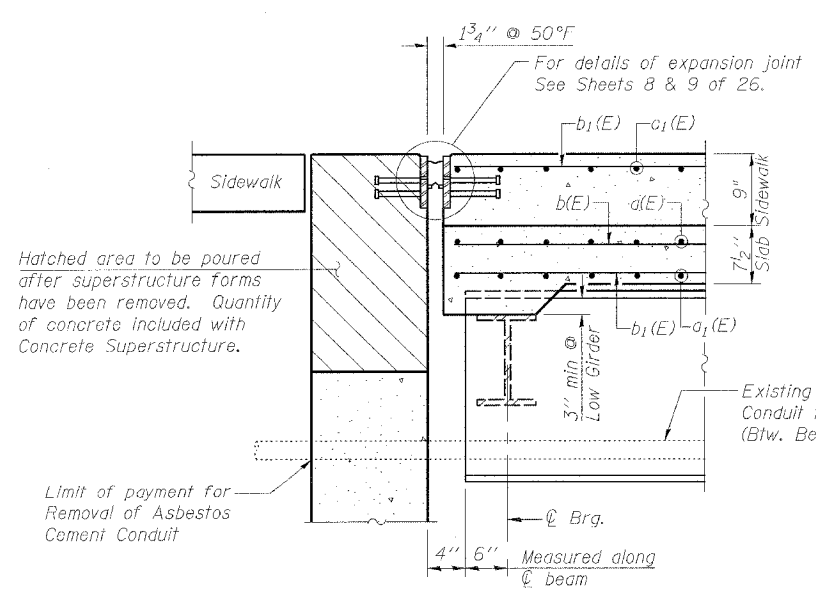
**DECK CROSS SECTION**  
(Looking East)

4 Existing 3 1/2" Ø Asbestos Cement Conduits - New ducts to be installed below diaphragms (See Note A)

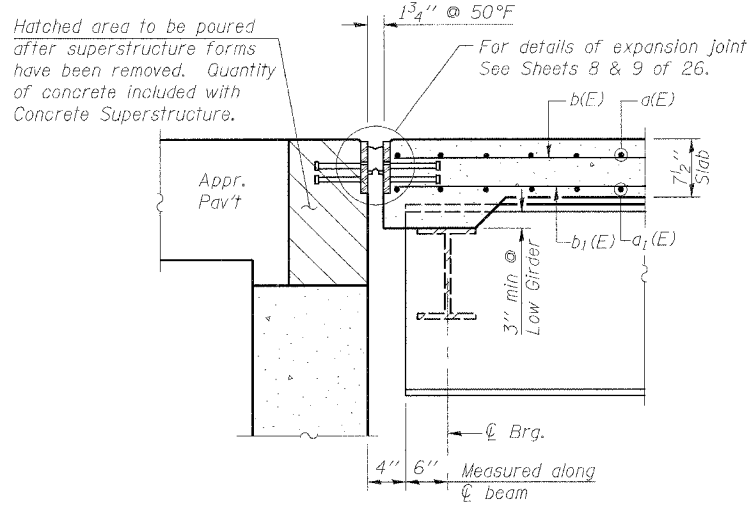
**NOTES**

See Sheet 5 of 26 for Section locations.  
See Sheet 7 of 26 for Parapet & Sidewalk details and Bill of Material.

Note A:  
Installation of hangers is included with Conduit Attached to Structure.  
See Sheet E-02 for conduit installation.



**SECTION A-A**



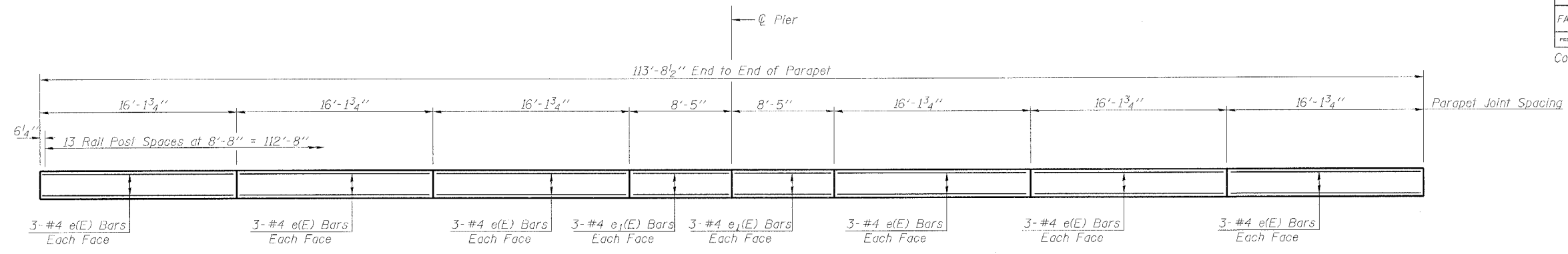
**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Total
Removal of Asbestos Cement Conduit	Foot	464

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Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUPERSTRUCTURE CROSS SECTION AND DETAILS  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246  
DATE: 4/30/2006  
DRAWN BY JMT  
CHECKED BY BLB

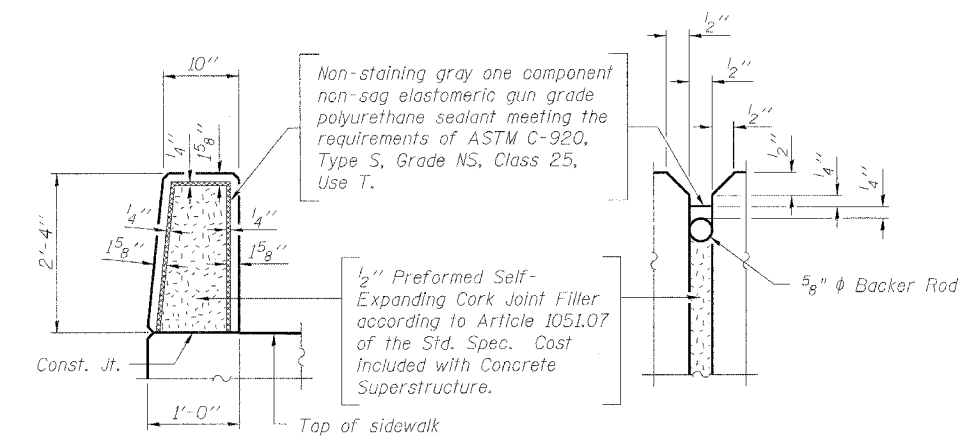


**INSIDE ELEVATION OF PARAPET**

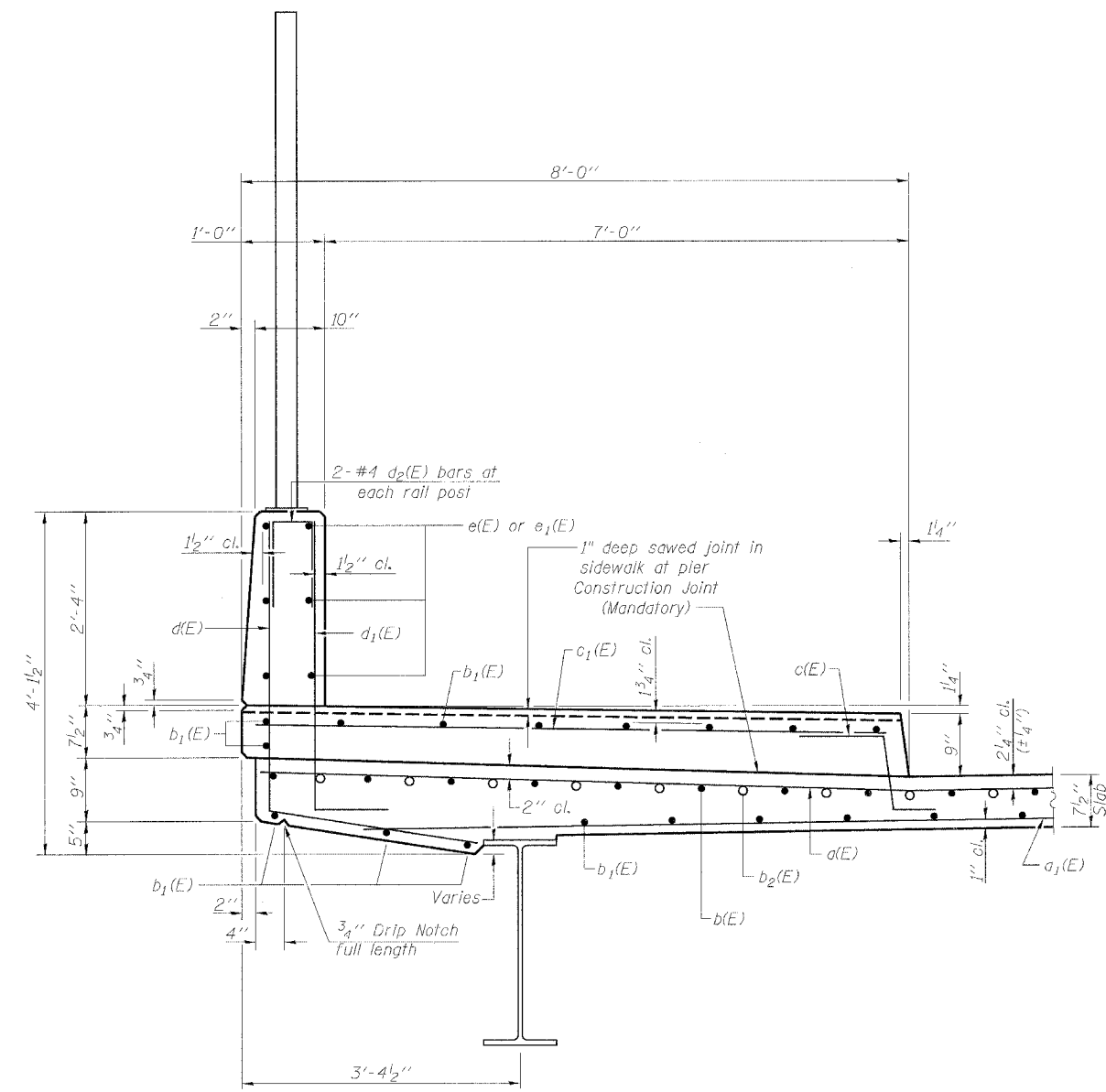
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	456	#5	38'-4"	—	
a <sub>1</sub> (E)	513	#5	25'-4"	—	
b(E)	375	#5	24'-6"	—	
b <sub>1</sub> (E)	348	#5	30'-0"	—	
b <sub>2</sub> (E)	74	#6	37'-10"	—	
c(E)	228	#5	2'-5"	┘	
c <sub>1</sub> (E)	228	#5	7'-9"	—	
d(E)	228	#4	5'-10"	L	
d <sub>1</sub> (E)	228	#6	4'-4"	L	
d <sub>2</sub> (E)	56	#4	2'-6"	Π	
e(E)	72	#4	15'-10"	—	
e <sub>1</sub> (E)	24	#4	8'-2"	—	
Reinforcement Bars, Epoxy Coated				Pound	62,240
Concrete Superstructure				Cu. Yd.	275.8
Protective Coat				Sq. Yd.	1021
Bridge Deck Grooving				Sq. Yd.	716

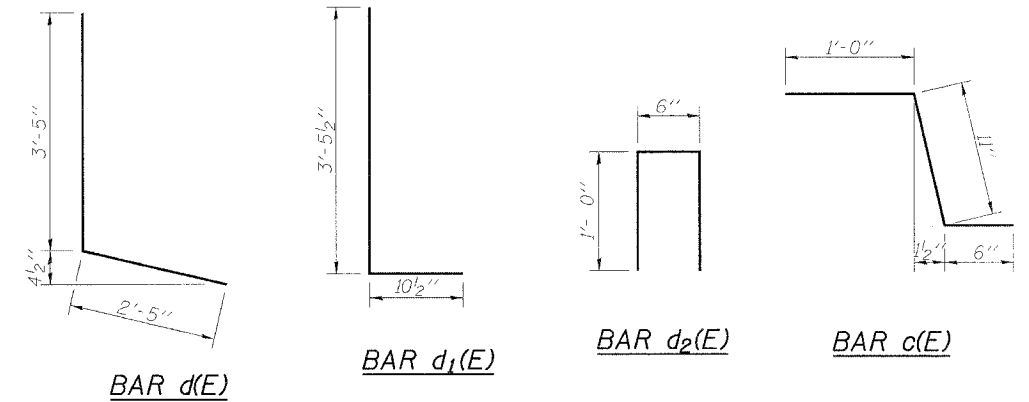
Reinforcement bars designated (E) shall be epoxy coated.



**PARAPET JOINT DETAILS**



**SECTION THRU PARAPET & SIDEWALK**  
(Near Pier)



**NOTE**  
Bridge mounted sign structures shall be installed prior to the pedestrian railing. See Sheets 23 thru 26 of 26.

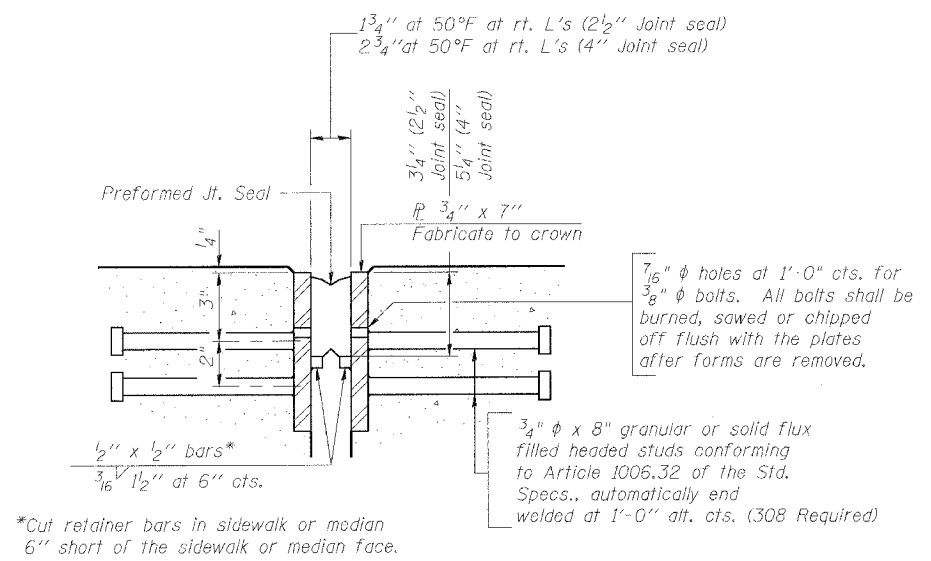
 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION
	SUPERSTRUCTURE PARAPET AND DETAILS FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO. 016-0246
	DATE: 4/30/2006 DRAWN BY JMT CHECKED BY BLB

Contract #60A65

**GENERAL NOTES**

Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be 3/16". Seal space with silicone sealant suitable for structural steel.

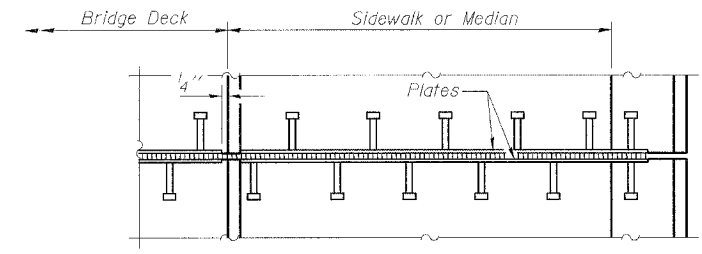
Bridge Joint System (Expansion)		
Design Movement	Required Preformed Joint Seal Size	Required Strip Seal Rated movement
1"	2 1/2"	1"
1 5/8"	4"	2"



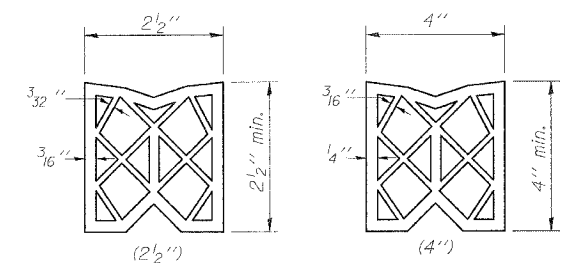
\*Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.

**SECTION THRU EXPANSION JOINT**

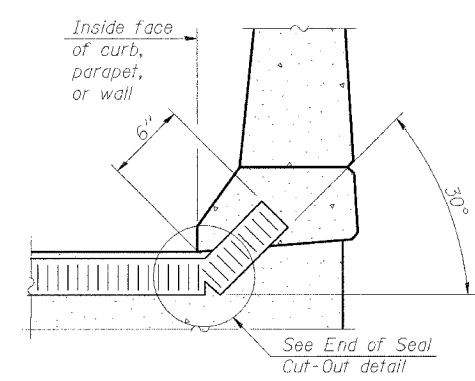
(2 1/2" and 4" joint seals)



**PLAN AT SIDEWALK OR MEDIAN**

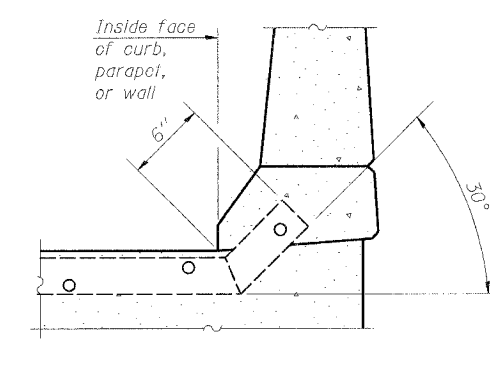


**PREFORMED JOINT SEAL**



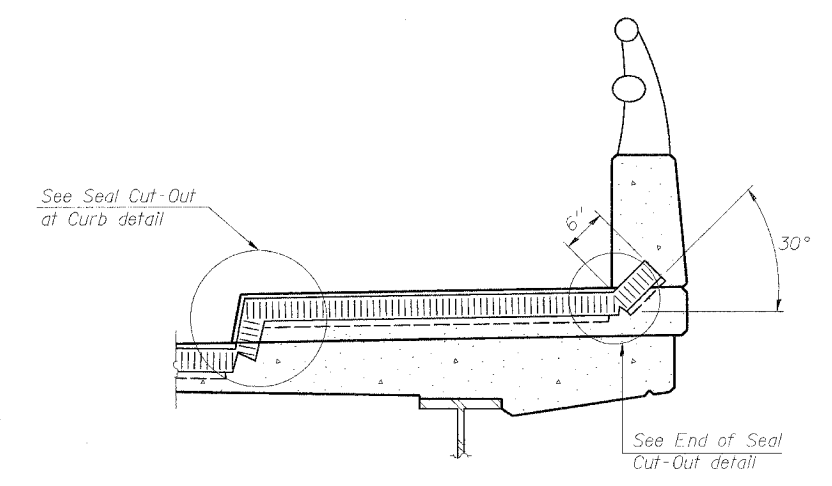
**AT CURB, PARAPET, OR WALL**

(Showing seal)



**AT CURB, PARAPET, OR WALL**

(Showing plate)

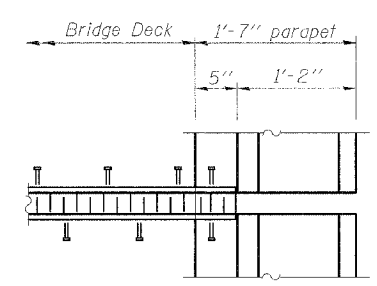


**AT SIDEWALK OR MEDIAN\***

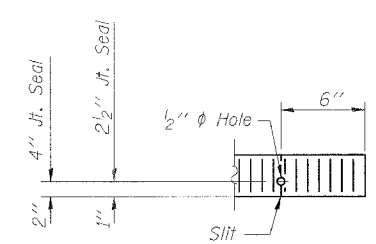
(Showing plate and seal)

\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

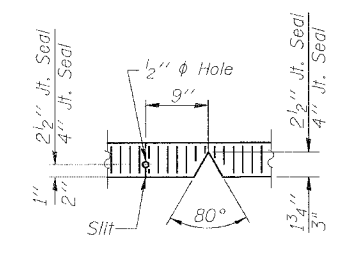
**TYPICAL END TREATMENTS**



**PLAN AT PARAPET**



**END OF SEAL CUT-OUT**



**SEAL CUT-OUT AT CURB**

**BILL OF MATERIAL**

Item	Unit	Total
Bridge Joint System (Expansion), 1"	Foot	151

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200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
BRIDGE JOINT SYSTEM - EXPANSION  
(PREFORMED JOINT SEAL)  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246  
DATE: 4/30/2006  
DRAWN BY LCM  
CHECKED BY BLB



Contract #60A65

**GENERAL NOTES**

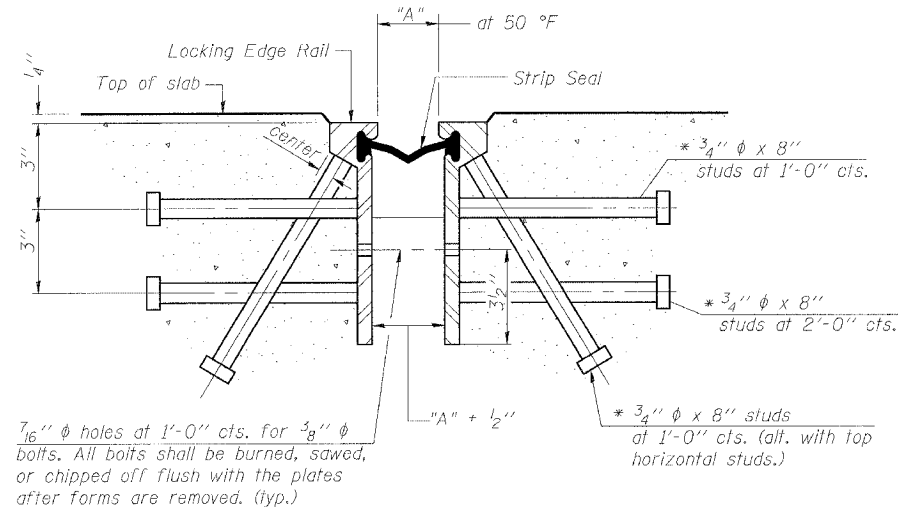
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

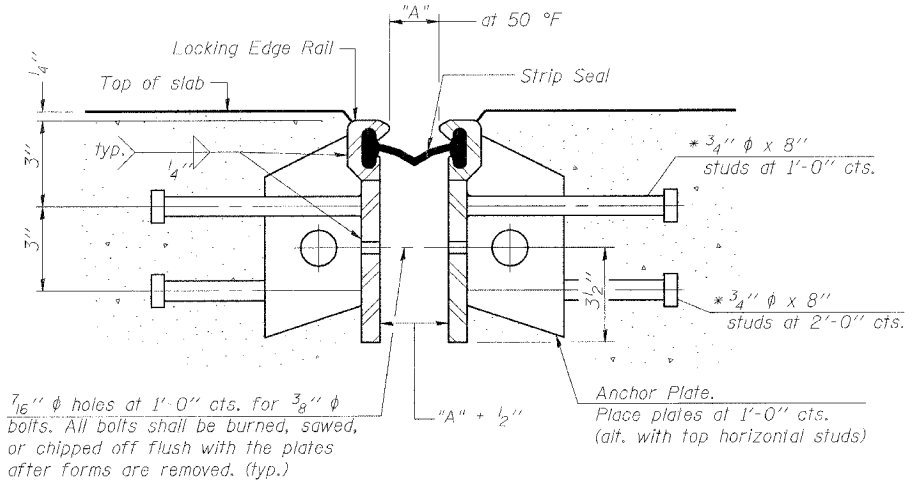
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

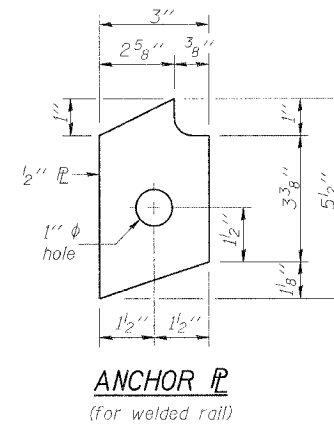
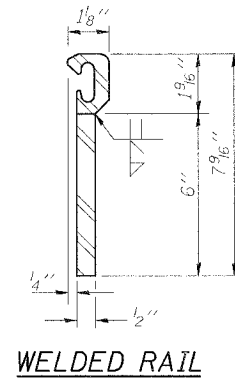
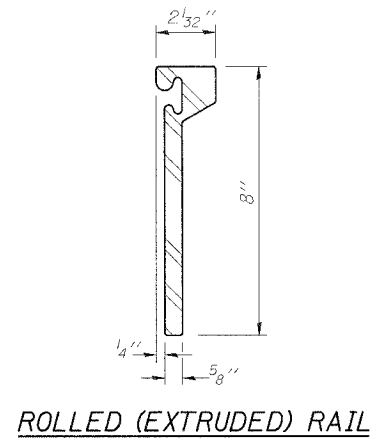


**SECTION THRU ROLLED RAIL EXP. JOINT**  
(756 Studs Required)

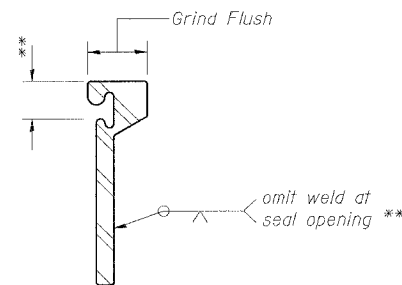


**SECTION THRU WELDED RAIL EXP. JOINT**  
(456 Studs Required)  
(300 Anchor Plates Required)

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

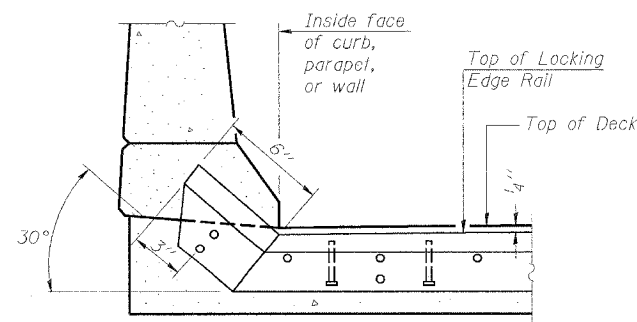


**LOCKING EDGE RAILS**

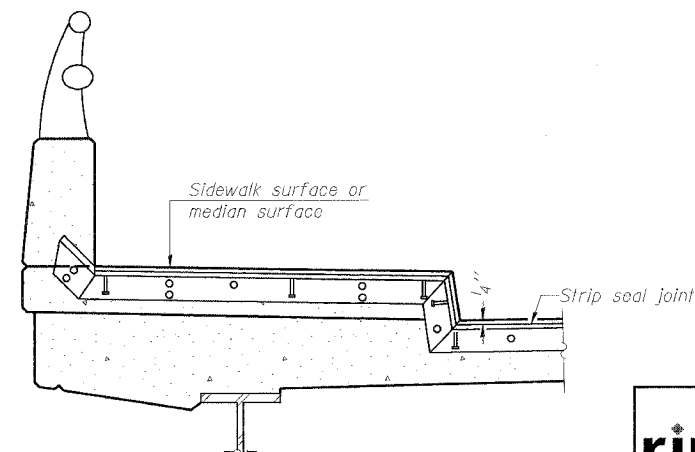


**LOCKING EDGE RAIL SPLICE**

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




**AT CURB, PARAPET, OR WALL**



**AT SIDEWALK OR MEDIAN\***

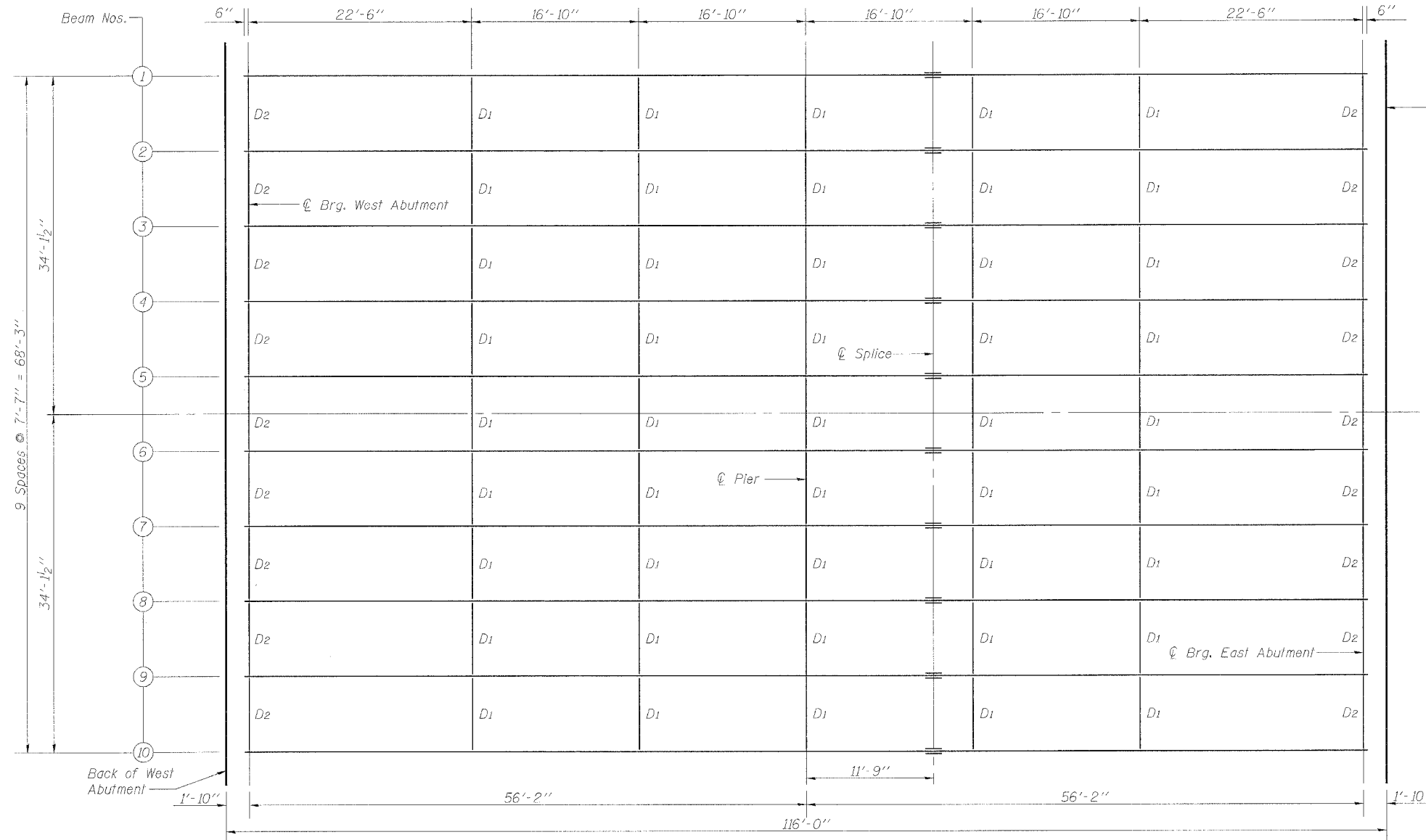
\* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

**TYPICAL END TREATMENTS**

 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION
	BRIDGE JOINT SYSTEM - EXPANSION (ALTERNATE -STRIP SEAL)
	FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY
	STATION 100+00 STRUCTURE NO. 016-0246 DRAWN BY LCM CHECKED BY BLB
	DATE: 4/30/2006



Contract #60A65



**NOTES**

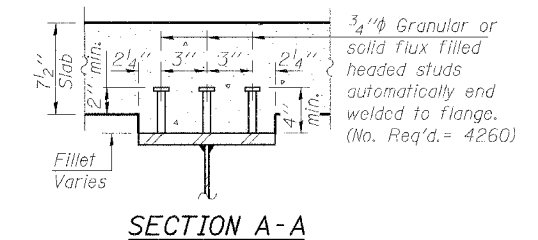
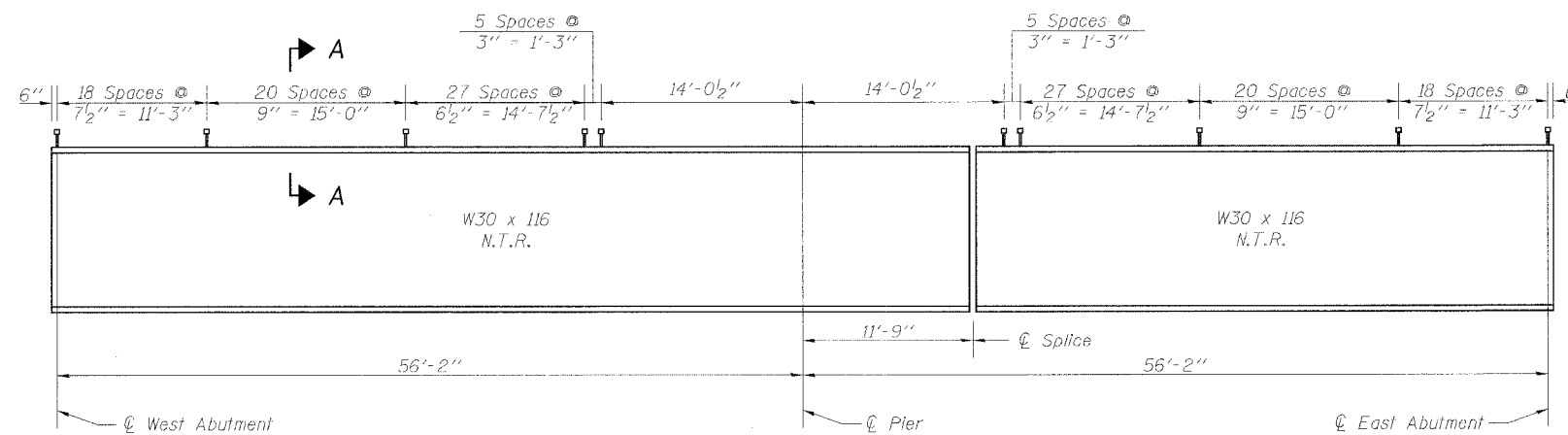
D<sub>1</sub> denotes interior diaphragm.  
D<sub>2</sub> denotes end diaphragm at abutments.  
See Sheet 12 of 26 for Field Splice and Diaphragm Details.  
Wide flange beams shall be M 270 Grade 50 Steel.

**TOP OF BEAM ELEVATIONS\***

Location	W. Abut	Pier	Splice	E. Abut
Beam #1 Elev.	610.554	610.880	610.948	610.633
Beam #2 Elev.	610.668	610.993	611.061	610.747
Beam #3 Elev.	610.782	611.107	611.175	610.861
Beam #4 Elev.	610.896	611.221	611.289	610.975
Beam #5 Elev.	611.009	611.335	611.403	611.088
Beam #6 Elev.	611.009	611.335	611.403	611.088
Beam #7 Elev.	610.896	611.221	611.289	610.975
Beam #8 Elev.	610.782	611.107	611.175	610.861
Beam #9 Elev.	610.668	610.993	611.061	610.747
Beam #10 Elev.	610.554	610.880	610.948	610.633

\* Elevations are before any deflections and are to be used for fabrication only.

**PLAN**



**BILL OF MATERIAL**

Item	Unit	Quantity
Stud Shear Connectors	Each	4260

**BEAM ELEVATION**

"N.T.R." denotes members to which notch toughness requirements are applicable.

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	ILLINOIS DEPARTMENT OF TRANSPORTATION
	FRAMING PLAN FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO.016-0246
	DATE: 4/30/2006
	DRAWN BY LCM CHECKED BY BLB

Contract #60A65

INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1	Pier
$I_s$	(in <sup>4</sup> ) 4930	4930
$I_c$ (n)	(in <sup>4</sup> ) 14,313	-
$I_c$ (sn)	(in <sup>4</sup> ) 10,590	-
$S_s$	(in <sup>3</sup> ) 329	329
$S_c$ (n)	(in <sup>3</sup> ) 500	-
$S_c$ (sn)	(in <sup>3</sup> ) 453	-
$Z$	(in <sup>3</sup> ) -	-
$\bar{\rho}$	(k/ft.) 0.838	1.371
$M\bar{\rho}$	(k) 186.4	473.9
$s\bar{\rho}$	(k/ft.) 0.533	-
$Ms\bar{\rho}$	(k) 143.1	-
$M\bar{L}$	(k) 437.1	214.0
$M$ (Imp)	(k) 120.6	59.1
$5_3[M\bar{L} + M(\text{Imp})]$	(k) 929.5	455.2
$M_a$	(k) 1636.7	1207.8
$M_u$	(k) 1932.7	-
$f_s\bar{\rho}$ non-comp (k.s.i.)	6.8	17.3
$f_s\bar{\rho}$ (comp) (k.s.i.)	3.8	-
$f_s 5_3(\bar{L} + \text{Imp})$ (k.s.i.)	22.3	16.6
$f_s$ (Overload) (k.s.i.)	32.9	33.9
$f_s$ (Total) (k.s.i.)	-	44.1
$VR$	(k) 55.0	-

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
$R\bar{\rho}$	(k) 30.1	93.9
$R\bar{L}$	(k) 40.2	47.0
$\text{Imp.}$	(k) 11.1	13.0
$R$ (Total)	(k) 81.4	153.9

$I_s$  and  $S_s$  are the moment of inertia and section modulus of the steel section used in computing  $f_s$  (Total & Overload).

$I_c$  (n) and  $S_c$  (n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

$I_c$  (sn) and  $S_c$  (sn) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

$VR$  is the maximum Live Load + Impact shear range in span.

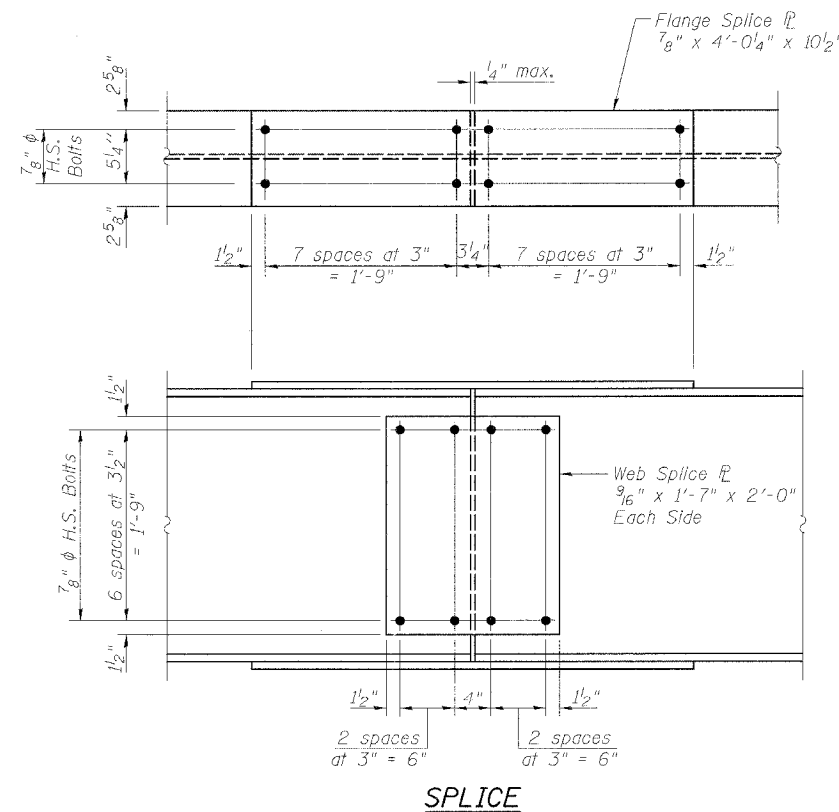
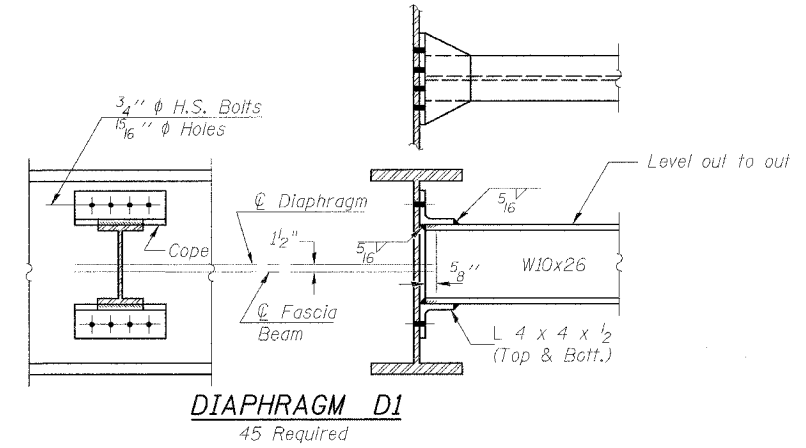
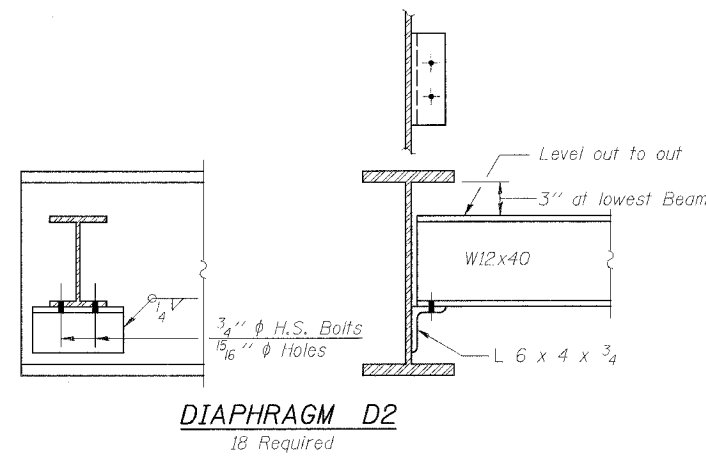
$Z$  is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

$M_a$  (Applied Moment) =  $1.3LM\bar{\rho} + Ms\bar{\rho} + 5_3(M\bar{L} + M(\text{Imp}))$ .

The Plastic Moment capacity ( $M_u$ ) is computed according to AASHTO 10.48.1 and 10.50.1.1.

$f_s$  (Overload) is the sum of the stresses due to  $M\bar{\rho} + Ms\bar{\rho} + 5_3(M\bar{L} + M(\text{Imp}))$ .

$f_s$  (Total) (Non-compact section) is the sum of the stresses due to  $1.3LM\bar{\rho} + Ms\bar{\rho} + 5_3(M\bar{L} + M(\text{Imp}))$ .



### NOTES

- Notch toughness requirements are applicable to all splice plates.
- All structural steel splice plates shall be M 270 Grade 50 steel.
- Two hardened washers shall be required over all oversized holes.

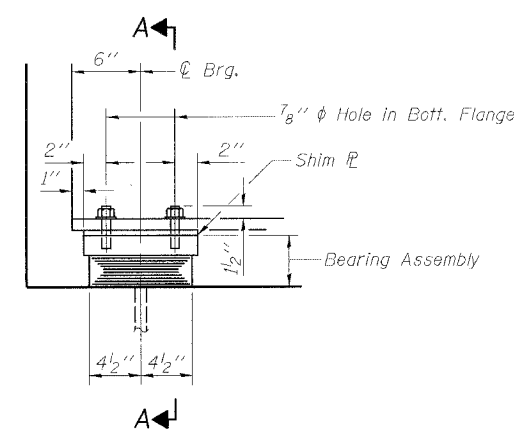
**rjngroup**  
Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

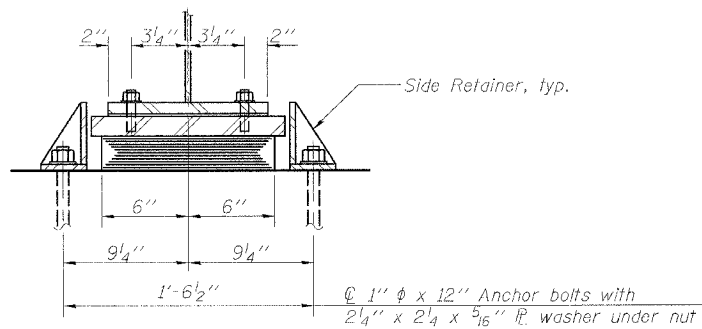
ILLINOIS DEPARTMENT OF TRANSPORTATION  
FRAMING DETAILS AND  
MOMENT AND REACTION TABLES  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006  
DRAWN BY: BLB  
CHECKED BY: WJV

Contract #60A65



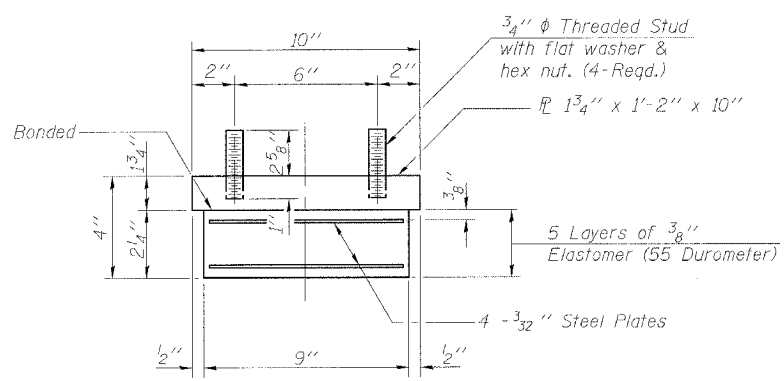
ELEVATION AT ABUT.



SECTION A-A

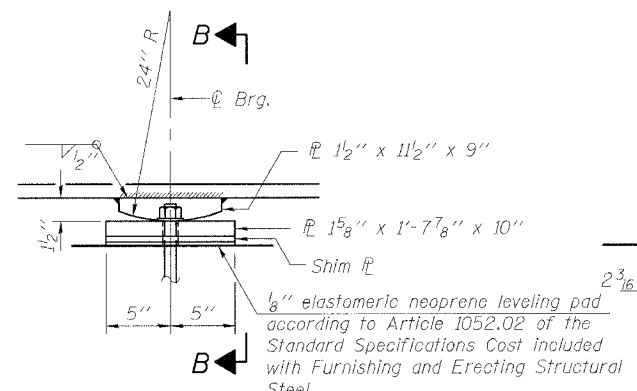
**TYPE I ELASTOMERIC EXP. BRG.**

Notes:  
 Anchor bolts at fixed bearings may be built into the masonry.  
 See sheet 14 of 26 for Anchor Bolt installation.  
 All steel for fixed bearings shall be M 270 Grade 50 steel.



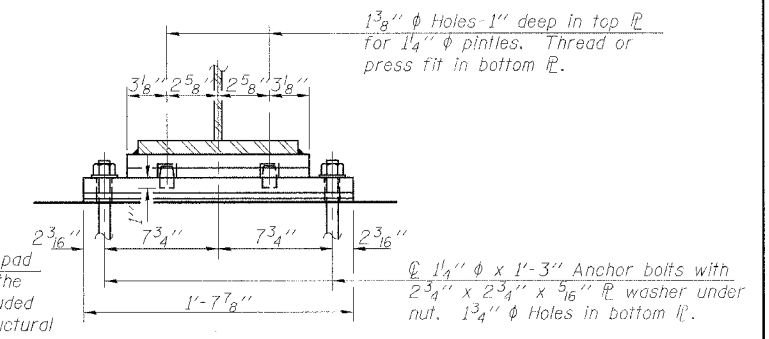
BEARING ASSEMBLY

Note:  
 Shim plates shall not be placed under Bearing Assembly.

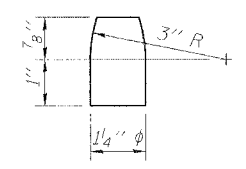


ELEVATION AT PIER

**FIXED BEARING**



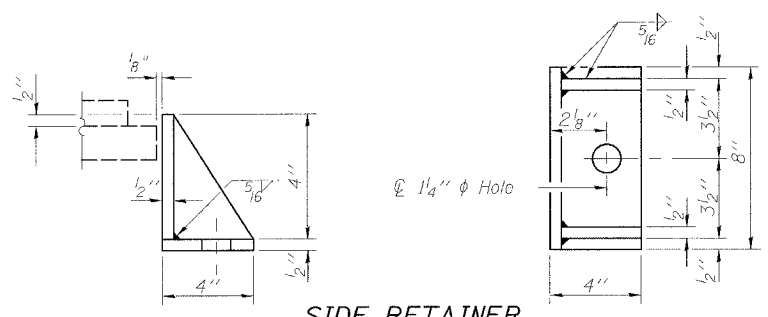
SECTION B-B



PINTLE

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	20



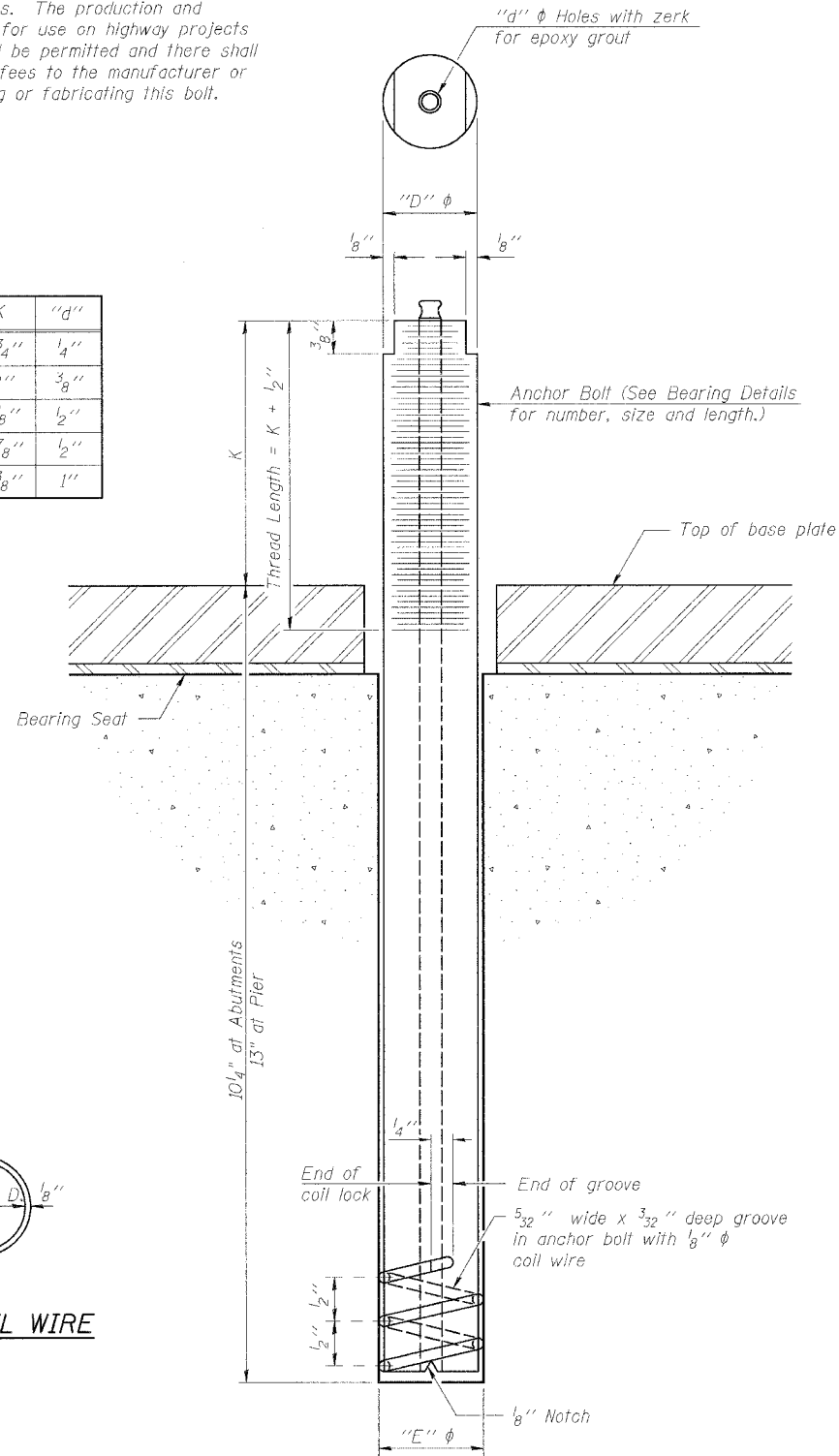
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Furnishing and Erecting Structural Steel.

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>BEARING DETAILS</p> <p>FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)</p> <p>FAU RTE 1360 - SECTION 0101BR-2</p> <p>COOK COUNTY</p> <p>STATION 100+00</p> <p>STRUCTURE NO. 016-0246</p>
	<p>DATE: 4/30/2006</p> <p>DRAWN BY LCM CHECKED BY BLB</p>

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/6"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 3/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 3/16"	3 3/8"	1"



PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

### MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

### INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

### ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abutments	A307
Pier	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FAU 1360	0101BR-2	COOK	90	62	26 SHEETS
FED. ROAD DIST. NO. 7	ILL. STATE	FED. AID PROJECT			

Contract #60A65

### GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

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200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

ANCHOR BOLT DETAILS FOR BEARINGS  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

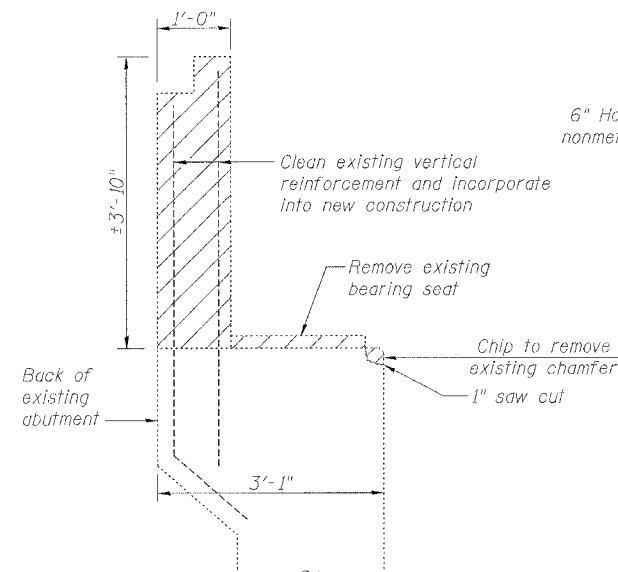
DRAWN BY LCM  
CHECKED BY WJV

Contract #60A65

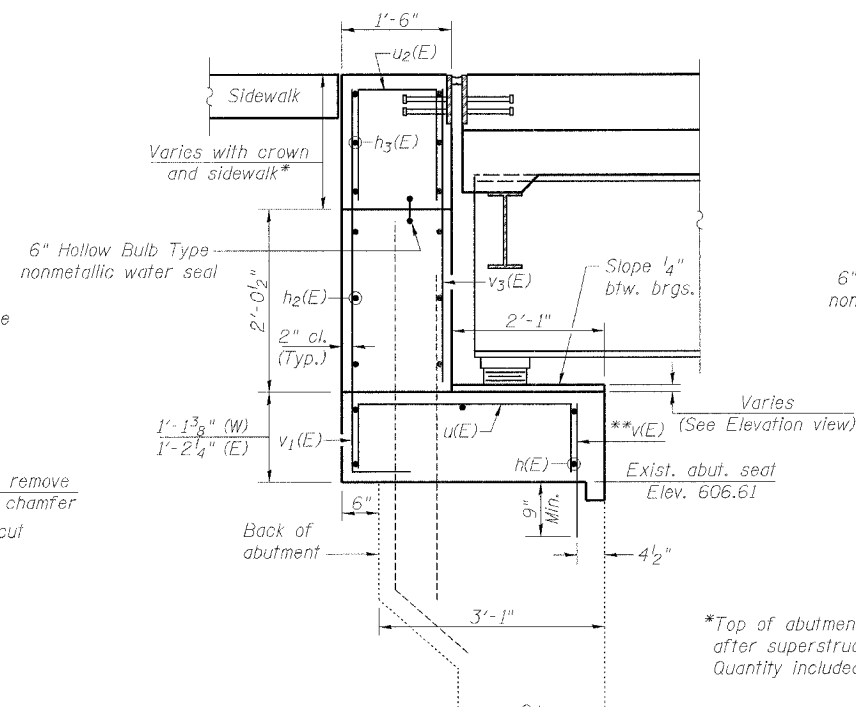
**BILL OF MATERIAL**

Bar No.	Size	Length	Shape
*** d <sub>2</sub> (E)	#4	2'-6"	□
*** d <sub>3</sub> (E)	#6	4'-2"	—
*** e <sub>2</sub> (E)	#4	5'-10"	—
h(E)	#5	37'-4"	—
h <sub>1</sub> (E)	#5	14'-10"	—
h <sub>2</sub> (E)	#5	37'-2"	—
h <sub>3</sub> (E)	#5	7'-8"	—
h <sub>4</sub> (E)	#5	31'-0"	—
u(E)	#5	4'-8"	□
u <sub>1</sub> (E)	#5	4'-1"	□
u <sub>2</sub> (E)	#5	3'-6"	□
v(E)	#5	1'-9"	—
v <sub>1</sub> (E)	#4	6'-2"	—
v <sub>2</sub> (E)	#4	3'-10"	—
v <sub>3</sub> (E)	#4	3'-10"	—
v <sub>4</sub> (E)	#4	3'-2"	—
v <sub>5</sub> (E)	#4	3'-0"	—
v <sub>6</sub> (E)	#5	2'-10"	—
Reinforcement Bars, Epoxy Coated	Pound	5810	
Concrete Removal	Cu. Yd.	22.9	
Concrete Structures	Cu. Yd.	45.7	
Concrete Superstructure	Cu. Yd.	11.3	
Bar Splicers	Each	124	

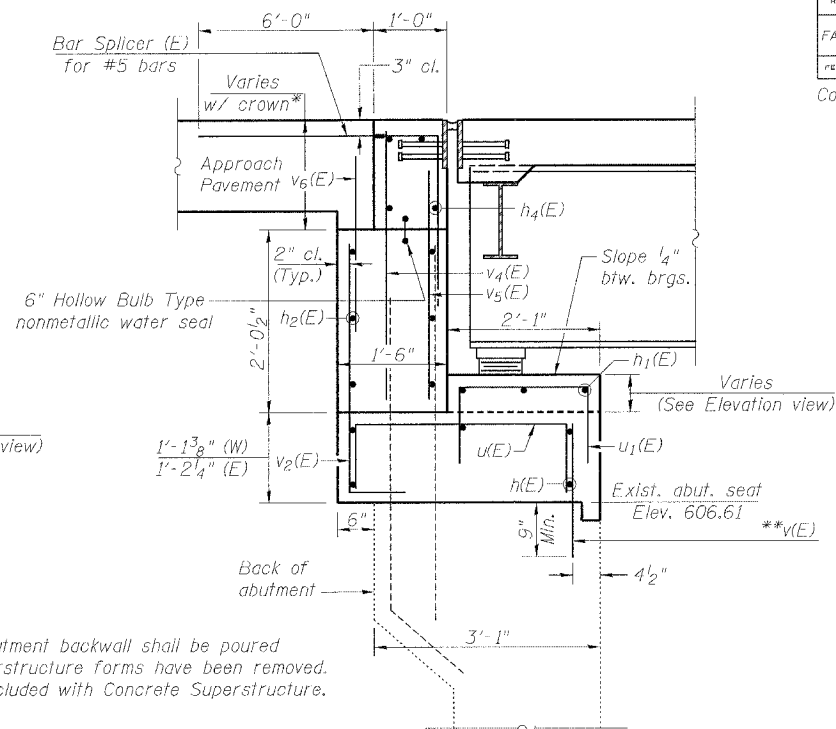
\*\*\*See Sheet 17 of 26.



**SECTION THRU EXISTING ABUTMENT**



**SECTION A-A**



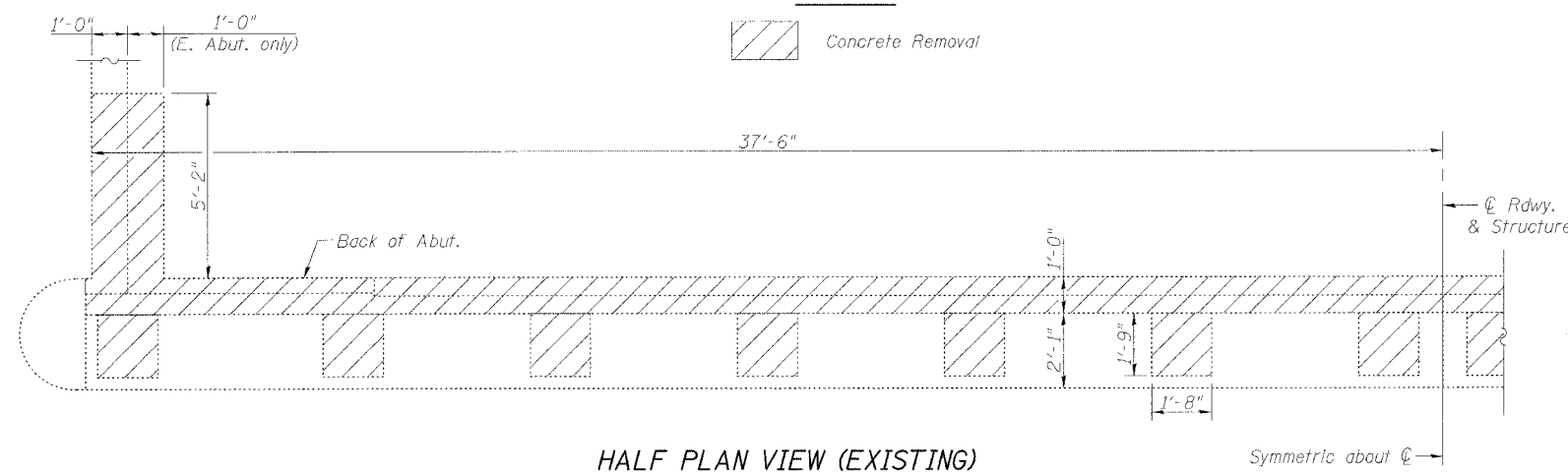
**SECTION B-B**

\*Top of abutment backwall shall be poured after superstructure forms have been removed. Quantity included with Concrete Superstructure.

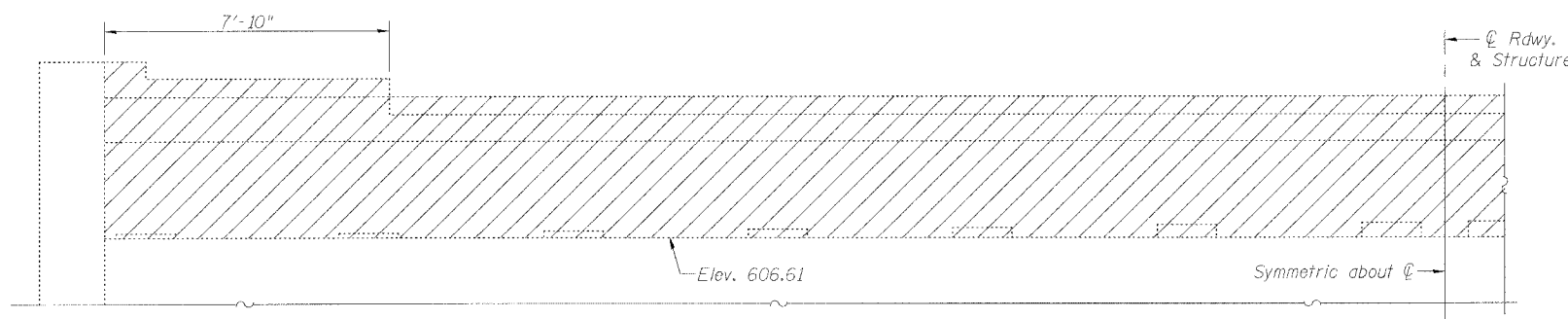
\*\*Field drill and epoxy grout in place according to Article 584 of the Standard Specifications. Cost of drilling and grouting is included with Reinforcement Bars, Epoxy Coated.

**LEGEND**

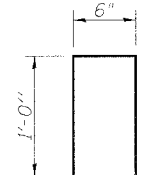
Concrete Removal



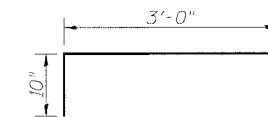
**HALF PLAN VIEW (EXISTING)**



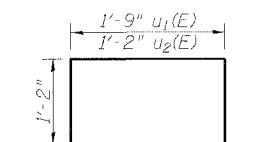
**HALF ELEVATION VIEW (EXISTING)**



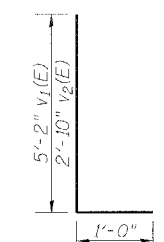
**BAR d<sub>2</sub>(E)**



**BAR u(E)**



**BAR u<sub>1</sub>(E) & u<sub>2</sub>(E)**



**BAR v<sub>1</sub>(E) & v<sub>2</sub>(E)**

**NOTES**

Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

Existing reinforcement bars extending into the removal area shall be blast cleaned to gray metal and straightened. Blast cleaning and straightening shall be included with the cost of Concrete Removal.

Existing reinforcement bars which have lost more than 25% of their original diameter shall be supplemented by new epoxy coated bars of the same diameter, spliced in place. Furnishing and placing supplemental epoxy coated reinforcement bars shall be included with the cost of Reinforcement Bars, Epoxy Coated.

Care shall be exercised by the contractor during and following removal operations to ensure that the existing rebar remaining in place are not damaged. All protruding rebar shall be cleaned, straightened, and properly positioned prior to concrete placement. Any rebar damaged during concrete removal shall be repaired or replaced using an approved Bar Splicer or Mechanical System. Cost included with Concrete Removal.

Reinforcement bars designated (E) shall be epoxy coated.

See Sheet 16 of 26 for Abutment Plan and Elevation.

See Sheet 17 of 26 for side wall details.

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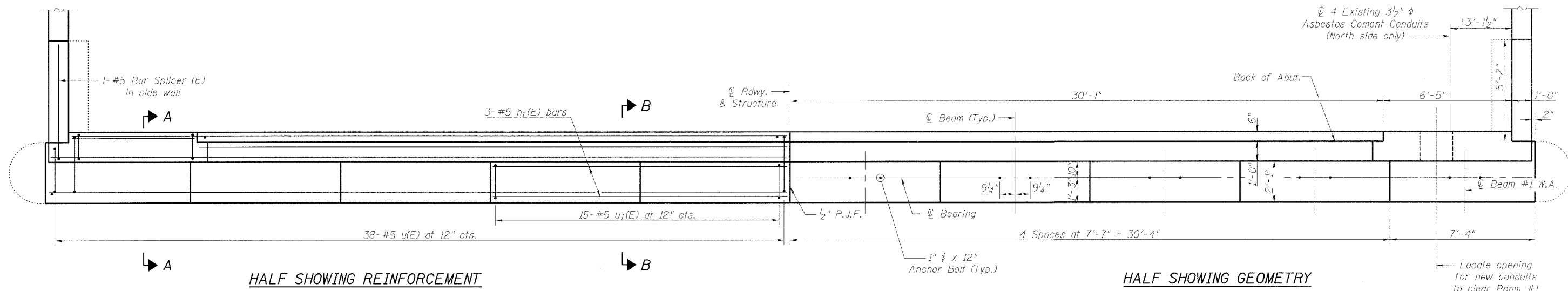
200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

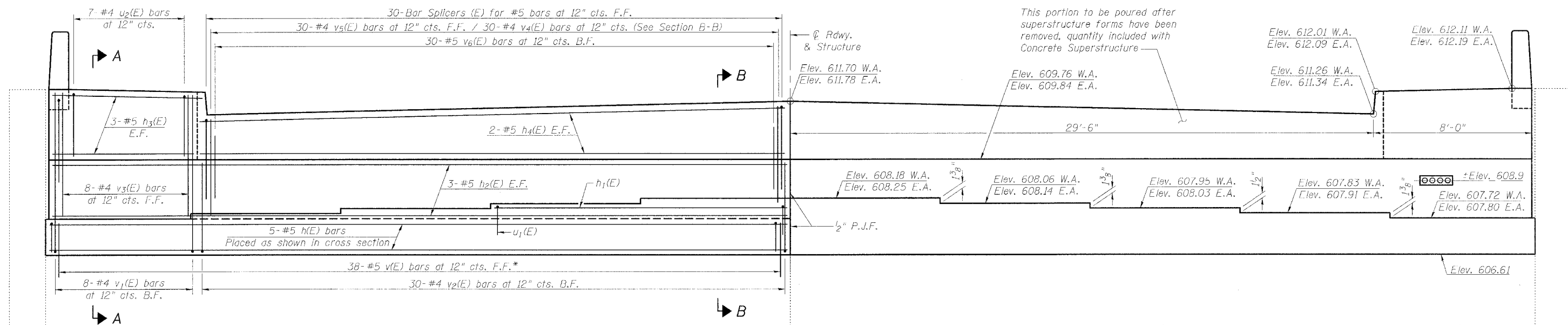
ABUTMENT DETAILS - I  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

DRAWN BY BLB  
CHECKED BY WJV



**PLAN VIEW (PROPOSED)**  
(Existing reinforcement not shown)  
West abutment shown -  
East abutment similar but mirrored



**ELEVATION VIEW (PROPOSED)**  
(Existing reinforcement not shown)  
West abutment shown -  
East abutment similar but mirrored

**NOTES**  
Space reinforcement in cap to miss anchor bolts.  
See Sheet 15 of 26 for Section A-A, Section B-B, removal details, and Bill of Material.  
See Sheet 17 of 26 for side wall details.  
See Sheet 14 of 26 for Anchor Bolt Details.  
Lap v4(E) and v5(E) bars to existing vertical reinforcement.  
Abutments are symmetric about  $\phi$  Roadway unless noted otherwise.

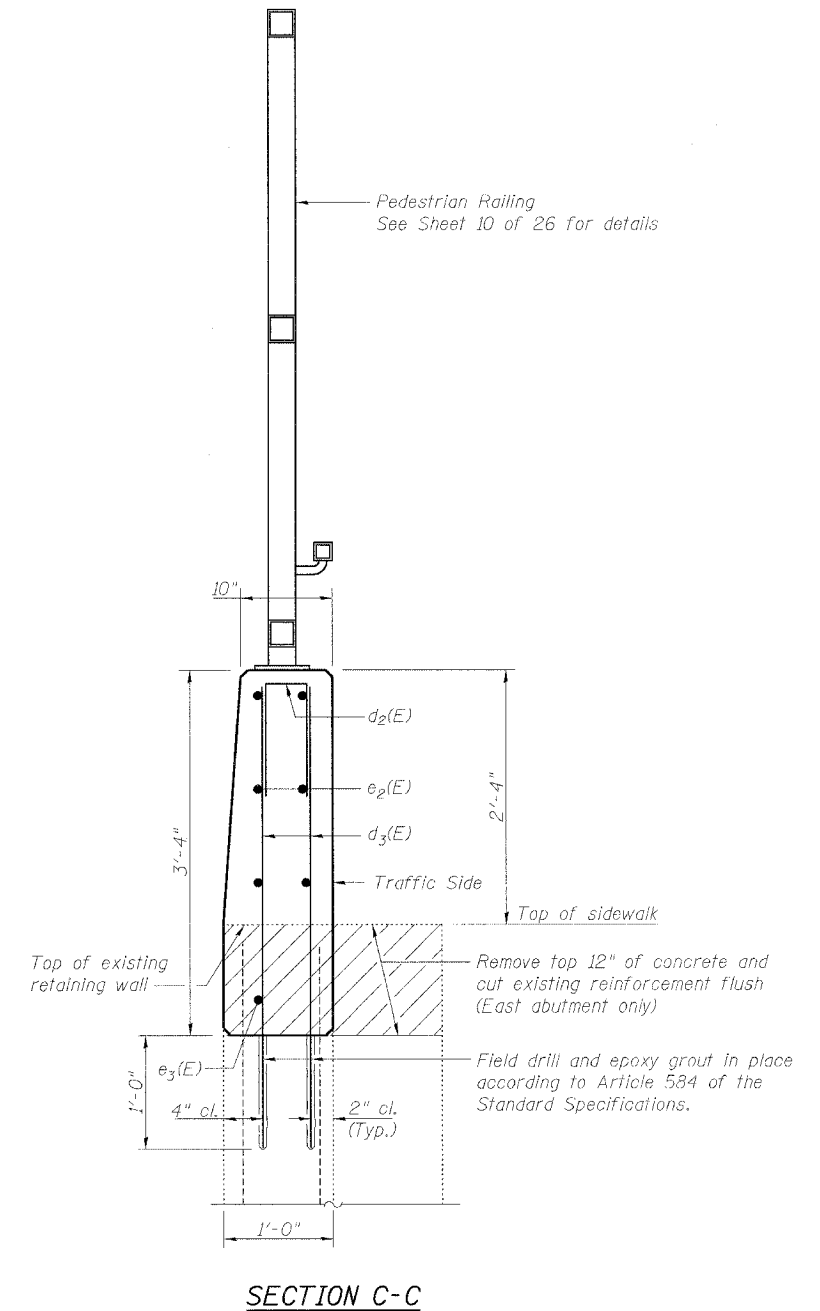
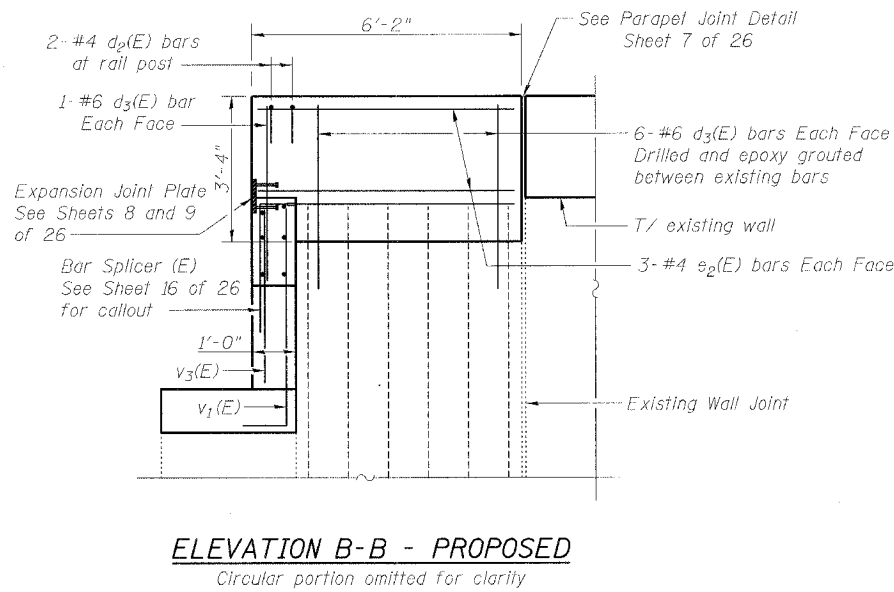
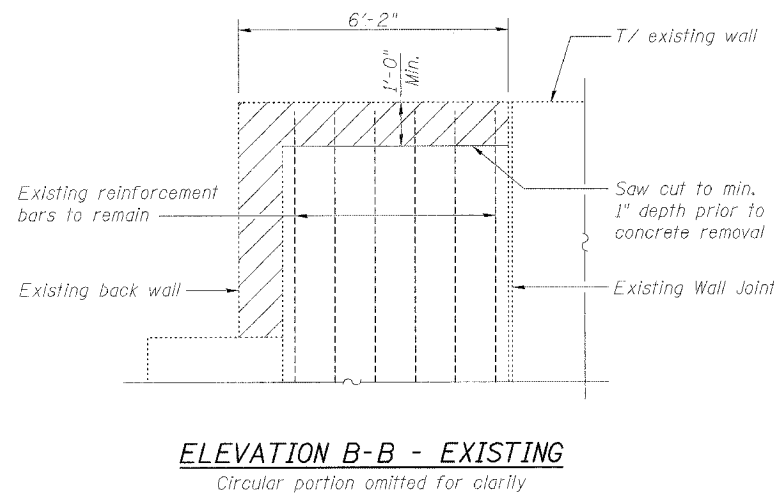
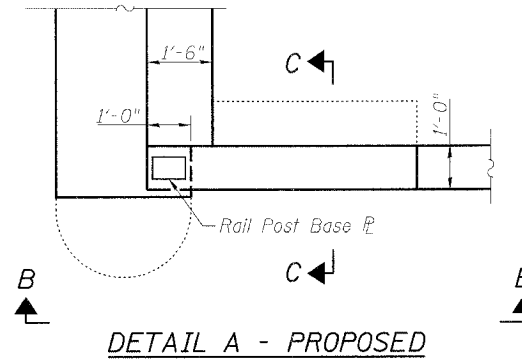
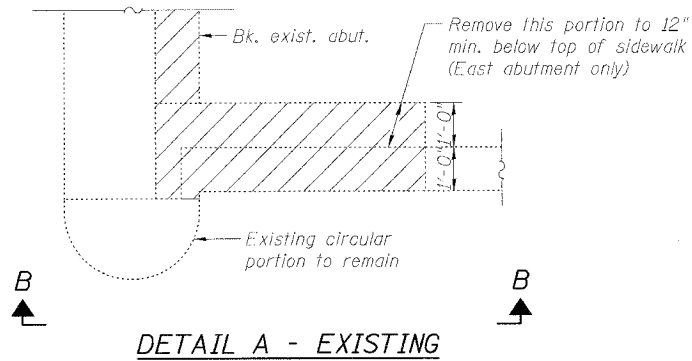
\*Field drill and epoxy grout in place according to Article 584 of the Standard Specifications.  
Cost of drilling and grouting is included with Reinforcement Bars, Epoxy Coated.

**LEGEND**  
E.A. - East Abutment  
W.A. - West Abutment  
F.F. - Front Face  
B.F. - Back Face  
E.F. - Each Face

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	<b>ABUTMENT DETAILS - II</b> FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO. 016-0246
DATE: 4/30/2006	DRAWN BY: BLB CHECKED BY: WJV

5/29/2006 K:\11182519\Structure\Final\Plan.dgn





**NOTES**

Existing reinforcement bars extending into the removal area shall be blast cleaned to gray metal and straightened. Blast cleaning and straightening shall be included with the cost of Concrete Removal.

Existing reinforcement bars which have lost more than 25% of their original diameter shall be supplemented by new epoxy coated bars of the same diameter, spliced in place. Furnishing and placing supplemental epoxy coated reinforcement bars shall be included with the cost of Reinforcement Bars, Epoxy Coated.

Care shall be exercised by the contractor during and following removal operations to ensure that the existing rebar remaining in place are not damaged. All protruding rebar shall be cleaned, straightened, and properly positioned prior to concrete placement. Any rebar damaged during concrete removal shall be repaired or replaced using an approved Bar Splicer or Mechanical System. Cost included with Concrete Removal.

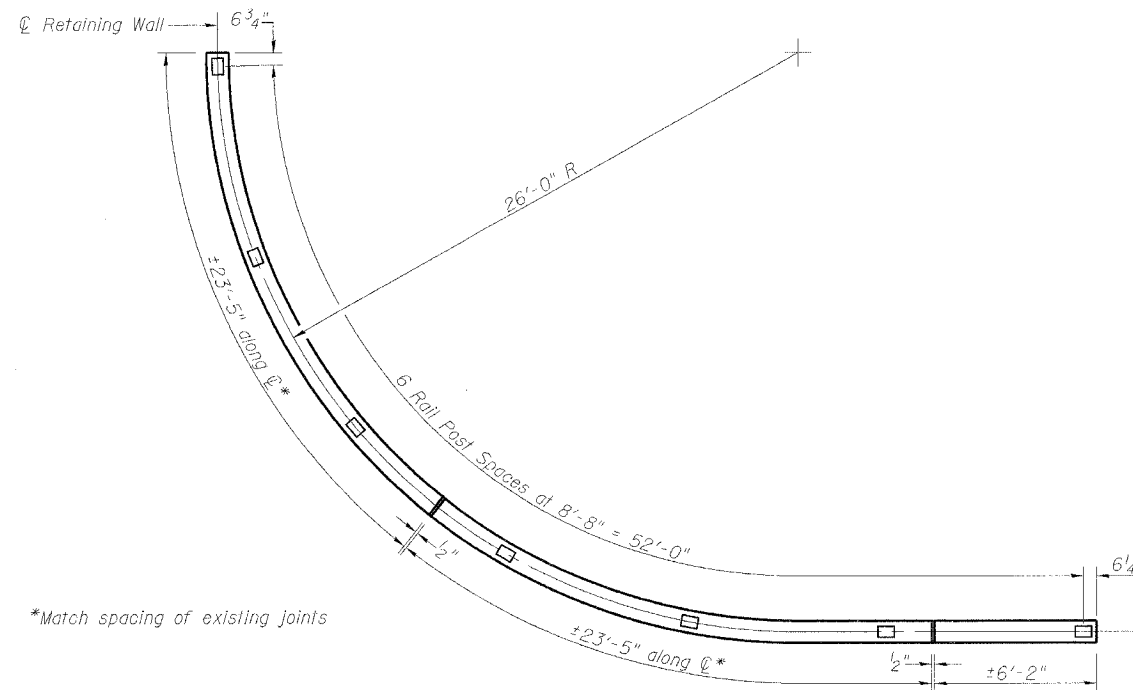
Reinforcement bars designated (E) shall be epoxy coated.

See Sheet 16 of 26 for Abutment Plan and Elevation.

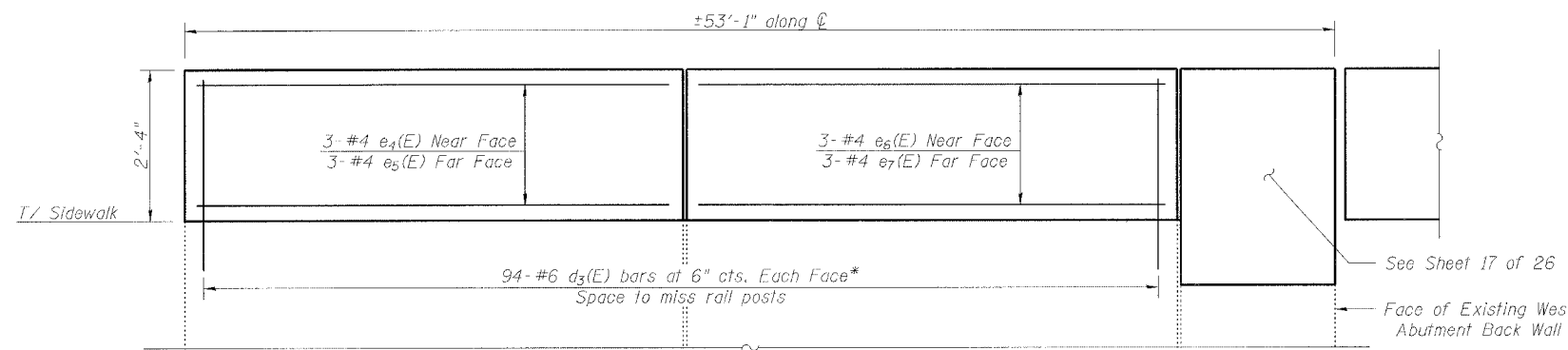
See Sheet 15 of 26 for Bill of Material.

<p>Excellence through Ownership</p> <p>200 West Front Street Wheaton, IL 60187</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p>ABUTMENT DETAILS - III</p> <p>FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)</p> <p>FAU RTE 1360 - SECTION 0101BR-2</p> <p>COOK COUNTY</p> <p>STATION 100+00</p> <p>STRUCTURE NO. 016-0246</p>
	<p>DATE: 4/30/2006</p> <p>DRAWN BY: BLB CHECKED BY: WJV</p>

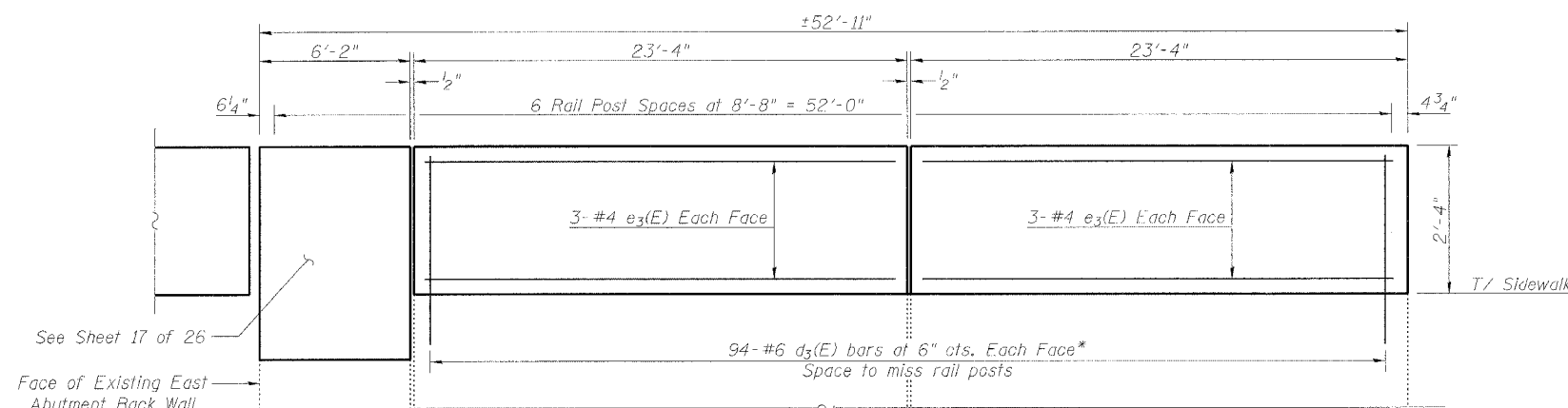
Contract #60A65



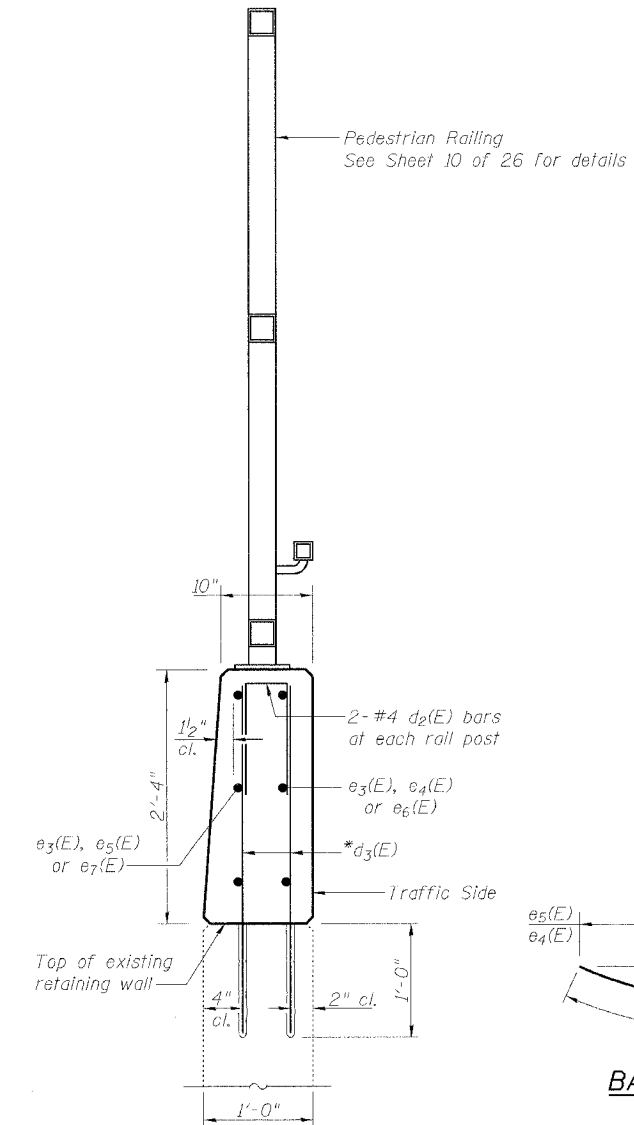
**NORTHWEST WALL PLAN**  
Southwest wall similar but mirrored



**NORTHWEST WALL ELEVATION (DEVELOPED)**  
Looking North - Southwest wall similar but opposite hand



**NORTHEAST WALL ELEVATION**  
Looking North - Southeast wall similar but opposite hand



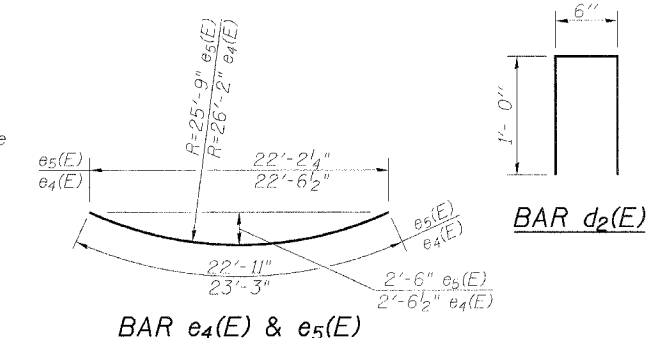
**SECTION THRU TOP OF RETAINING WALL**

Note:  
Remove existing fence and railing and cut existing anchors if necessary.

**RETAINING WALLS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d <sub>2</sub> (E)	48	#4	2'-6"	□
d <sub>3</sub> (E)	752	#6	3'-2"	—
e <sub>3</sub> (E)	24	#4	23'-1"	—
e <sub>4</sub> (E)	6	#4	23'-3"	—
e <sub>5</sub> (E)	6	#4	22'-11"	—
e <sub>6</sub> (E)	6	#4	23'-3"	—
e <sub>7</sub> (E)	6	#4	22'-11"	—
Reinforcement Bars, Epoxy Coated			Pound	4400
Concrete Structures			Cu. Yd.	14.8
Protective Coat			Sq. Yd.	66

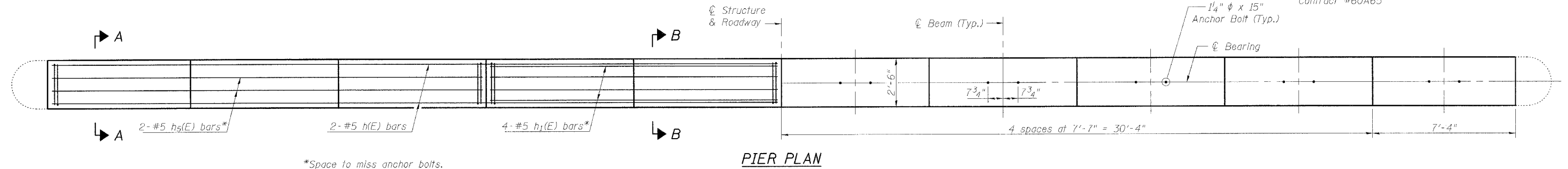
Reinforcement bars designated (E) shall be epoxy coated.



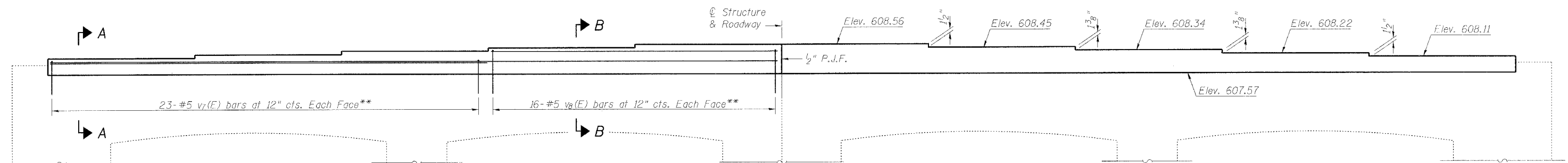
 Excellence through Ownership 200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION
	ABUTMENT DETAILS - IV FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO. 016-0246
	DATE: 4/30/2006
	DRAWN BY: BLB CHECKED BY: WJV

\*Field drill and epoxy grout in place according to Article 584 of the Standard Specifications. Cost of drilling and grouting is included with Reinforcement Bars, Epoxy Coated.

Contract #60A65



PIER PLAN

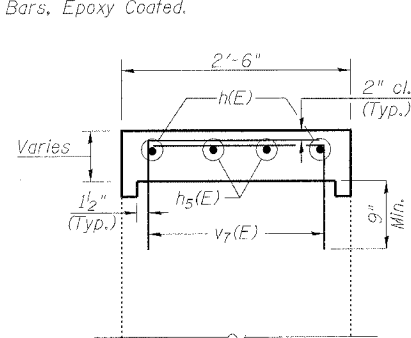


PIER ELEVATION

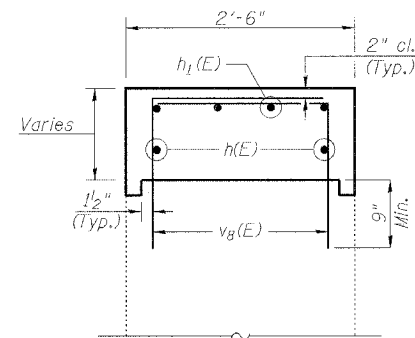
\*\*Field drill and epoxy grout in place according to Article 584 of the Standard Specifications. Cost of drilling and grouting is included with Reinforcement Bars, Epoxy Coated.

LEGEND

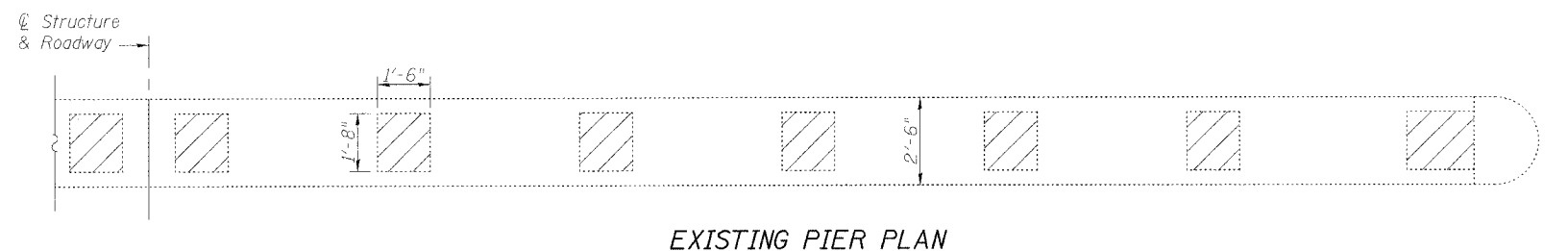
Concrete Removal



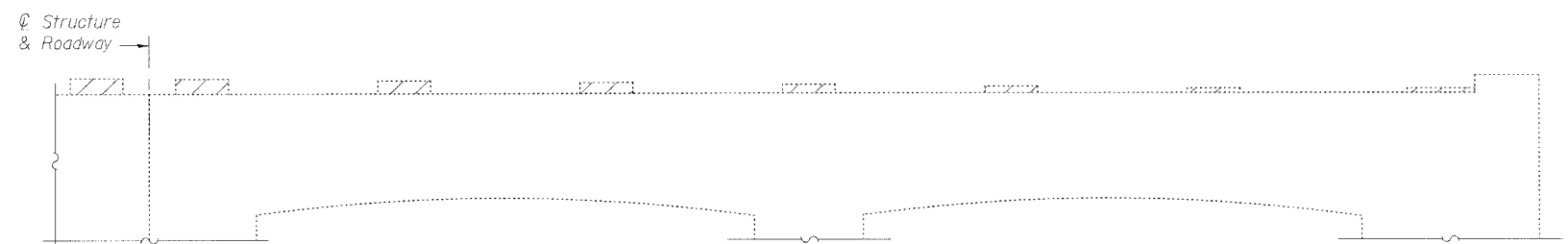
SECTION A-A



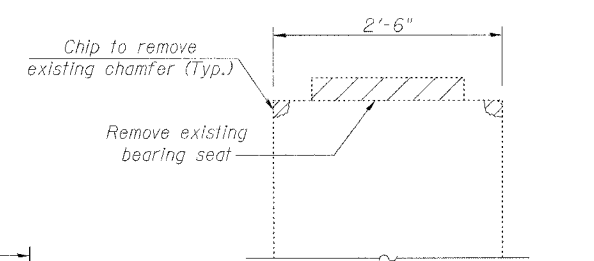
SECTION B-B



EXISTING PIER PLAN



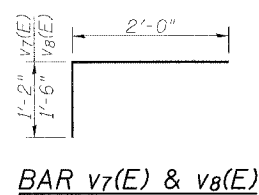
EXISTING PIER ELEVATION



SECTION THRU EXISTING PIER

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(L)	4	#5	37'-4"	—
h1(E)	8	#5	14'-10"	—
h5(E)	4	#5	22'-7"	—
v7(E)	92	#5	3'-2"	┘
v8(E)	64	#5	3'-6"	┘
Reinforcement Bars, Epoxy Coated		Pound	920	
Concrete Removal		Cu. Yd.	0.5	
Concrete Structures		Cu. Yd.	5.4	



BAR v7(E) & v8(E)

NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Space bars to miss anchor bolts.
- See Sheet 14 of 26 for Anchor Bolt Details.
- Pier is symmetric about  $\phi$  of Roadway.

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200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

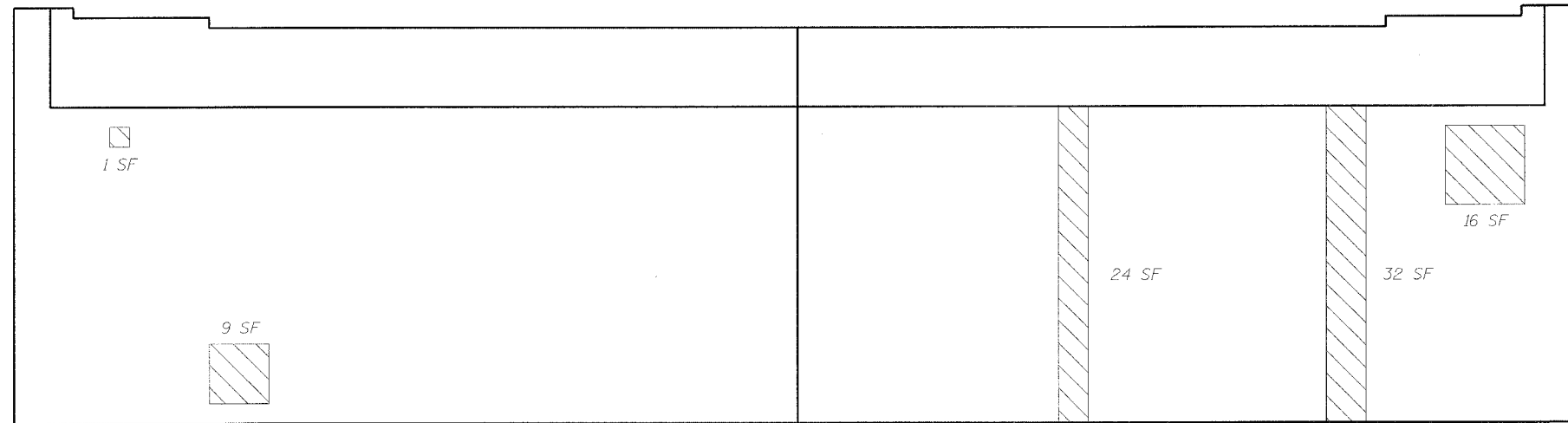
PIER DETAILS  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

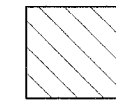
DRAWN BY BLB  
CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 20
FAU 1360	0101BR-2	COOK	90	68	26 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #60A65

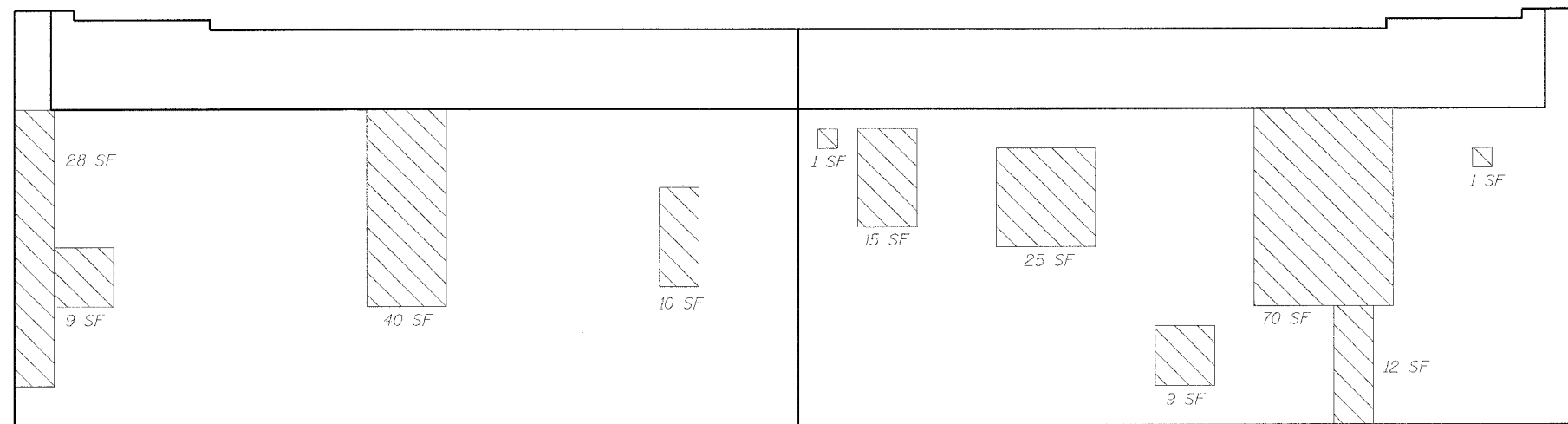


EAST ABUTMENT ELEVATION

 Structural Repair of Concrete  
(Depth Equal to or Less Than 5")


BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	302



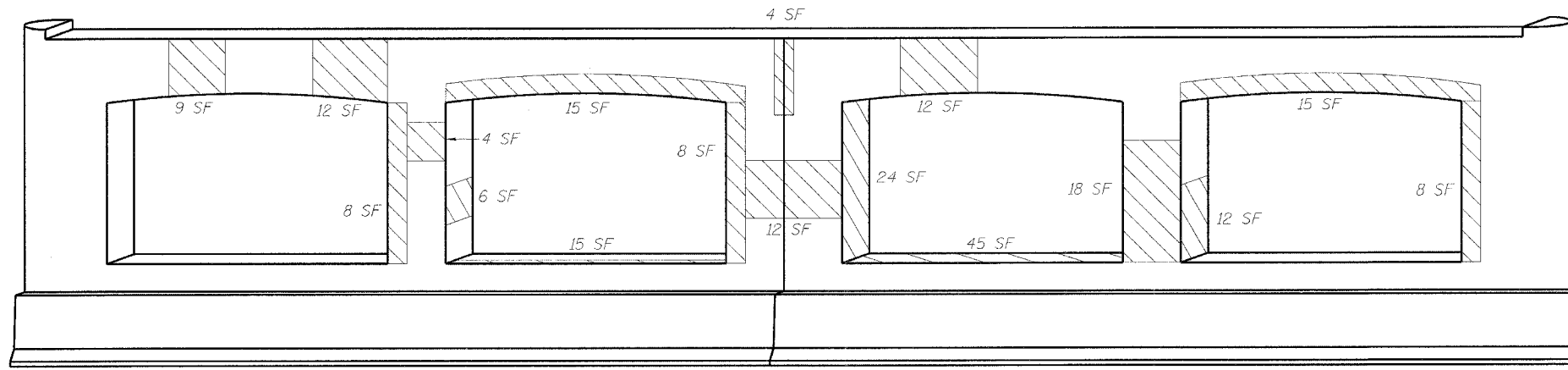
WEST ABUTMENT ELEVATION

6/29/2006 K:\1102510\Structural\Final Plans\Final Plans.dgn


 Excellence through Ownership  200 West Front Street Wheaton, IL 60187	ILLINOIS DEPARTMENT OF TRANSPORTATION
	EAST AND WEST ABUTMENT REPAIRS FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY) FAU RTE 1360 - SECTION 0101BR-2 COOK COUNTY STATION 100+00 STRUCTURE NO. 016-0246
	DATE: 4/30/2006
	DRAWN BY LCM CHECKED BY BLB

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 21 26 SHEETS
FAU 1360	0101BR-2	COOK	90	69	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #60A65

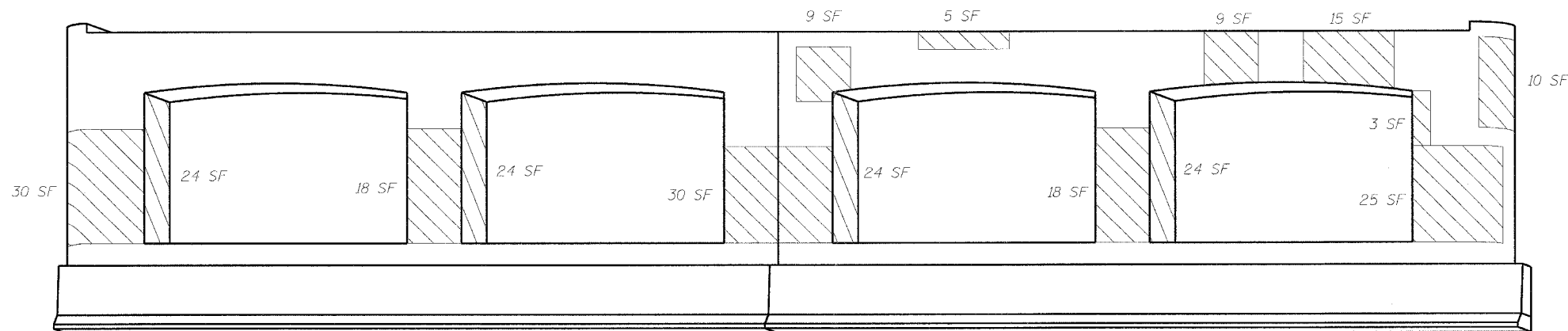


**PIER ELEVATION**  
(Looking West)

 Structural Repair of Concrete  
(Depth Equal to or Less Than 5")

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	495



**PIER ELEVATION**  
(Looking East)

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Excellence through Ownership

200 West Front Street  
Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER REPAIRS  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

DRAWN BY LCM  
CHECKED BY BLB

Contract #60A65

**NOTES**

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

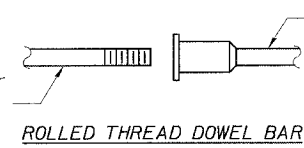
- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $1.25 \times f_{s_{allow}} \times A_t$   
(Tension in kips)

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $f_{s_{allow}}$  = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
 \* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

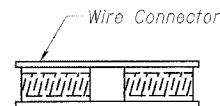
The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



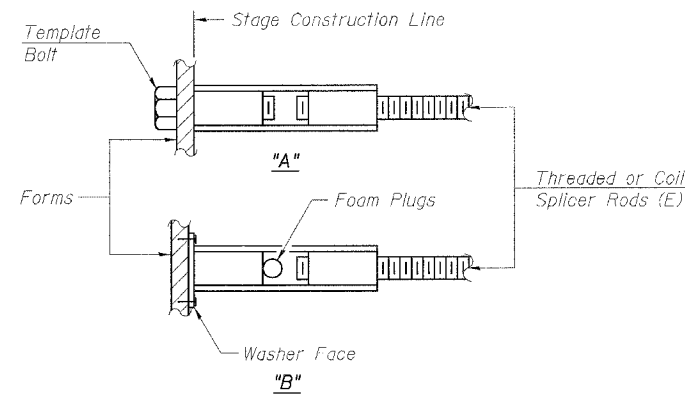
\*\* ONE PIECE



WELDED SECTIONS

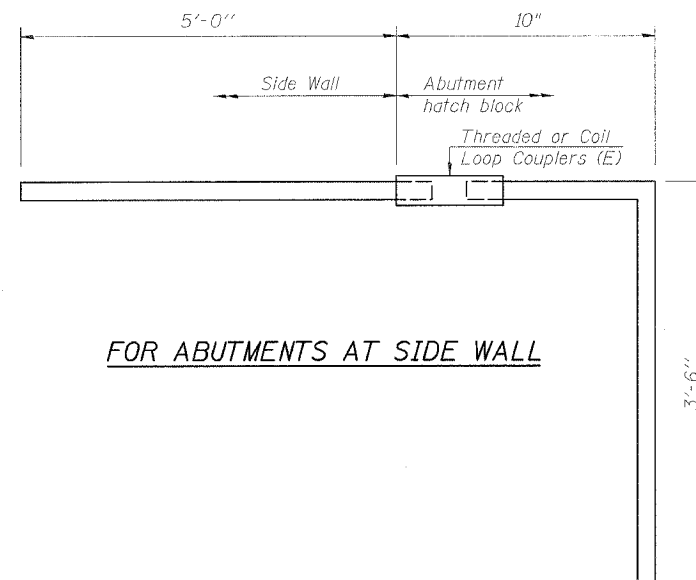
**BAR SPLICER ASSEMBLY ALTERNATIVES**

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



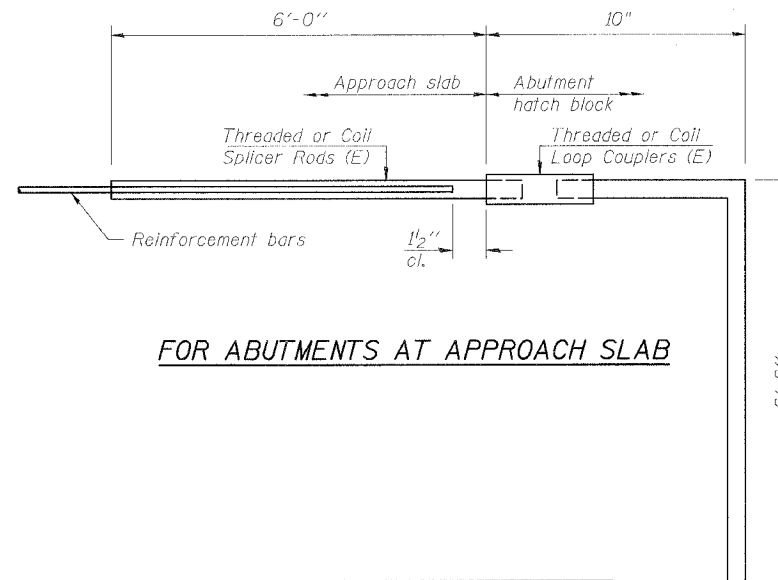
**INSTALLATION AND SETTING METHODS**

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



FOR ABUTMENTS AT SIDE WALL

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 4



FOR ABUTMENTS AT APPROACH SLAB

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 120

Bar Size	No. Assemblies Required	Location
#5	120	Abutments
#5	4	Abutments

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 BAR SPLICER ASSEMBLY DETAILS  
 FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
 FAU RTE 1360 - SECTION 0101BR-2  
 COOK COUNTY  
 STATION 100+00  
 STRUCTURE NO. 016-0246  
 DATE: 4/30/2006  
 DRAWN BY: LCM  
 CHECKED BY: BLB

**GENERAL NOTES**

**SPECIFICATIONS:**

**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

**LOADING:** 90 M.P.H. WIND VELOCITY

**WALKWAY LOADING:** Dead load plus 500 lbs. concentrated live load.

**MINIMUM CLEARANCE:** 3" greater than bridge members at all locations. (All Obstructions)

**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

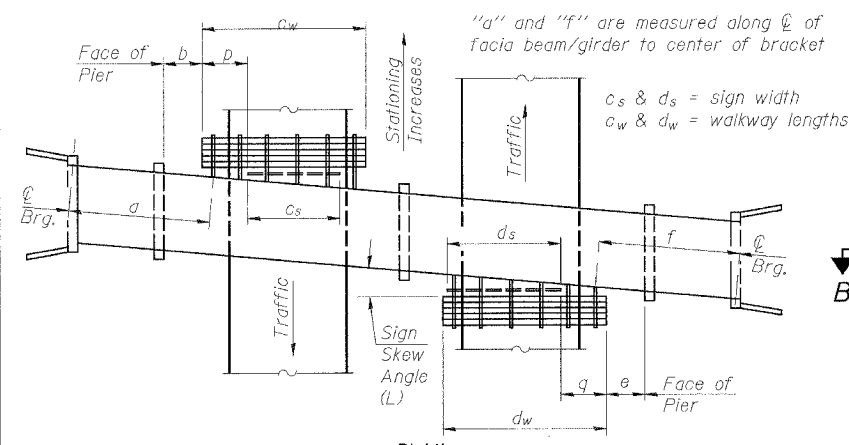
**MATERIALS:** All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

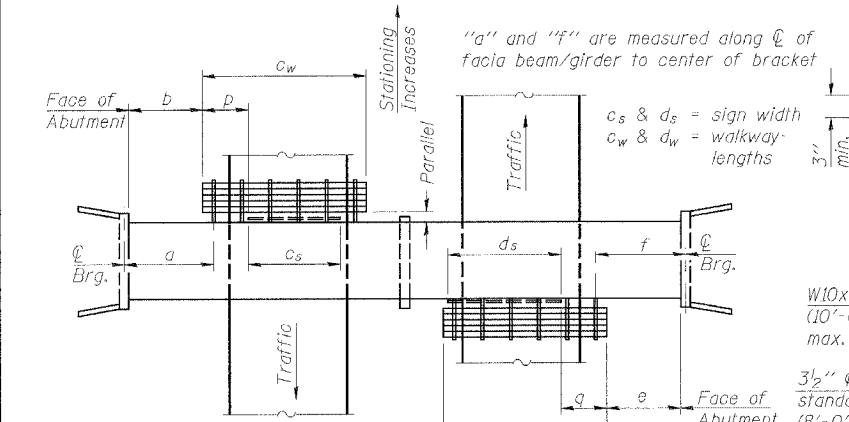
**HIGH STRENGTH BOLTS:** All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

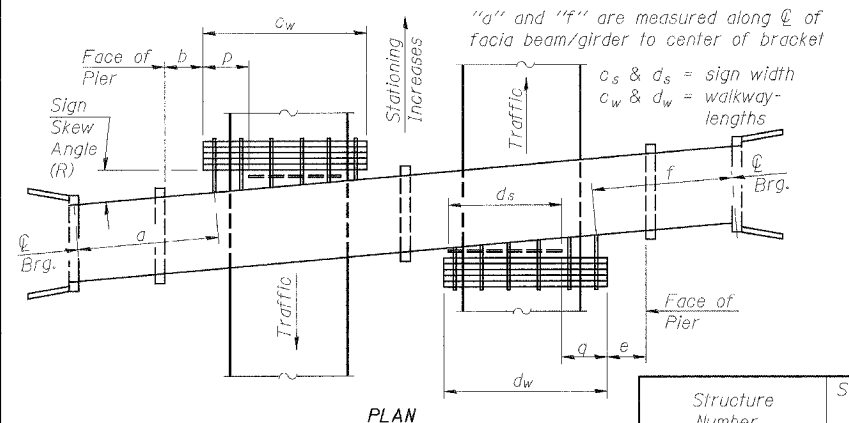
**ANCHOR RODS:** All threaded rod conforming to ASTM A307, 3/4"  $\phi$  x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M252. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".



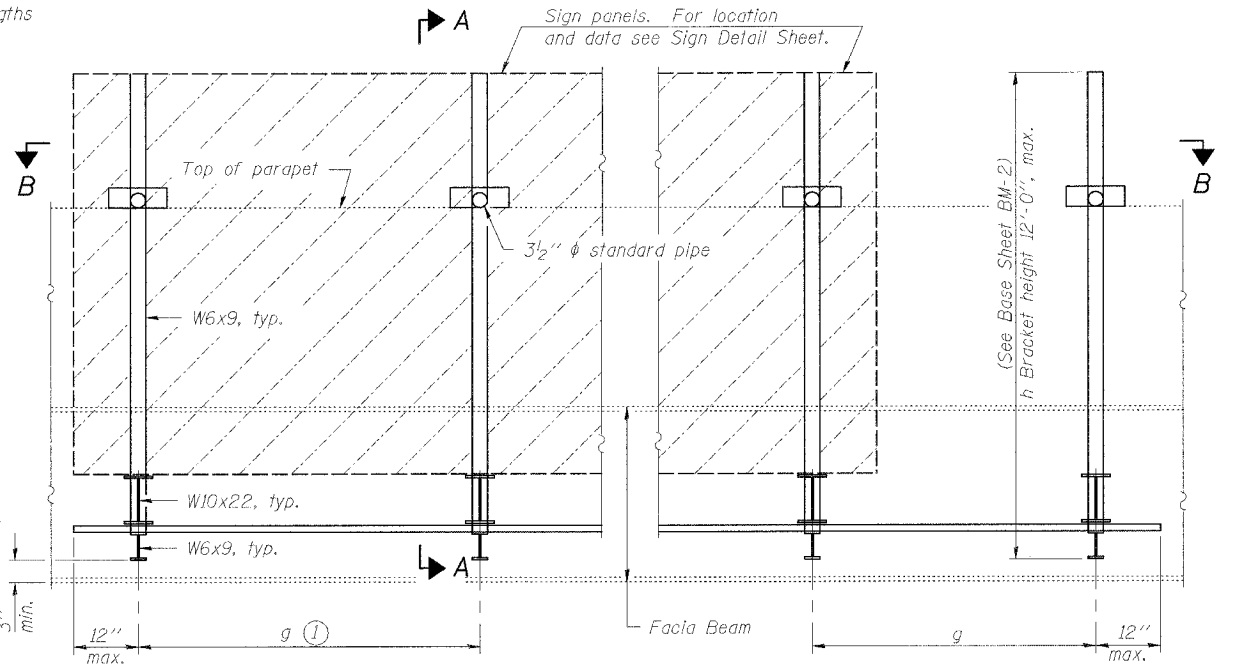
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



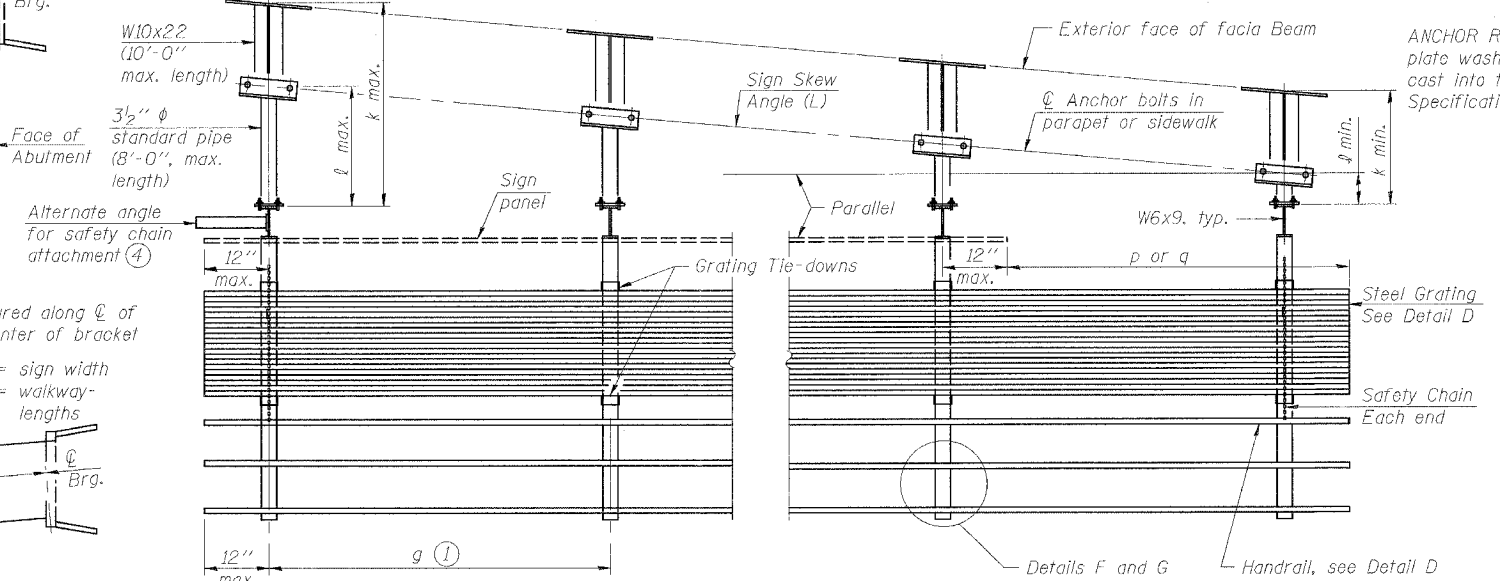
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



**TYPICAL FRONT ELEVATION**  
(With lights, safety chain and handrail omitted for clarity.)



**SECTION B-B**  
(Shown: Left Sign Skew > 15°)

- Bracket spacing  $g \leq 6'-0"$ , max. Spacing shall be uniform if possible but may vary  $\pm 6"$  to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length ( $c_w$ ,  $d_w$ ) unless otherwise specified. For Safety Chain Details D, F and G, see Base Sheet BM-4.
- If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

NUMBER	REVISION	DATE

**TOTAL BILL OF MATERIAL**

OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	9'-2"
--	------	-------

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c <sub>s</sub>	c <sub>w</sub>	d <sub>s</sub>	d <sub>w</sub>	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c <sub>w</sub> + d <sub>w</sub> )
1B0161094R042.5	0	100+00	016-0246	FAI 94					14'-6"	53'-11"	4"	2'-1"	4'-2"	6	7'-10"	53'-11"	
		100+00					28'-8"	27'-5"	5'-6"								
1B0161094L042.5	0	100+00	016-0246	FAI 94	30'-2"	6'-8"	22'-0"	43'-3"				5'-0"	5	0	43'-3"		
		100+00			8'-11"	17'-6"			5'-2"	4							

Dimensions a, b, e, f & g may vary as approved by the Engineer, see (1).  
When  $c_w < c_s$  and/or  $d_w < d_s$ , use alternate brackets without walkway supports where applicable, see (3).

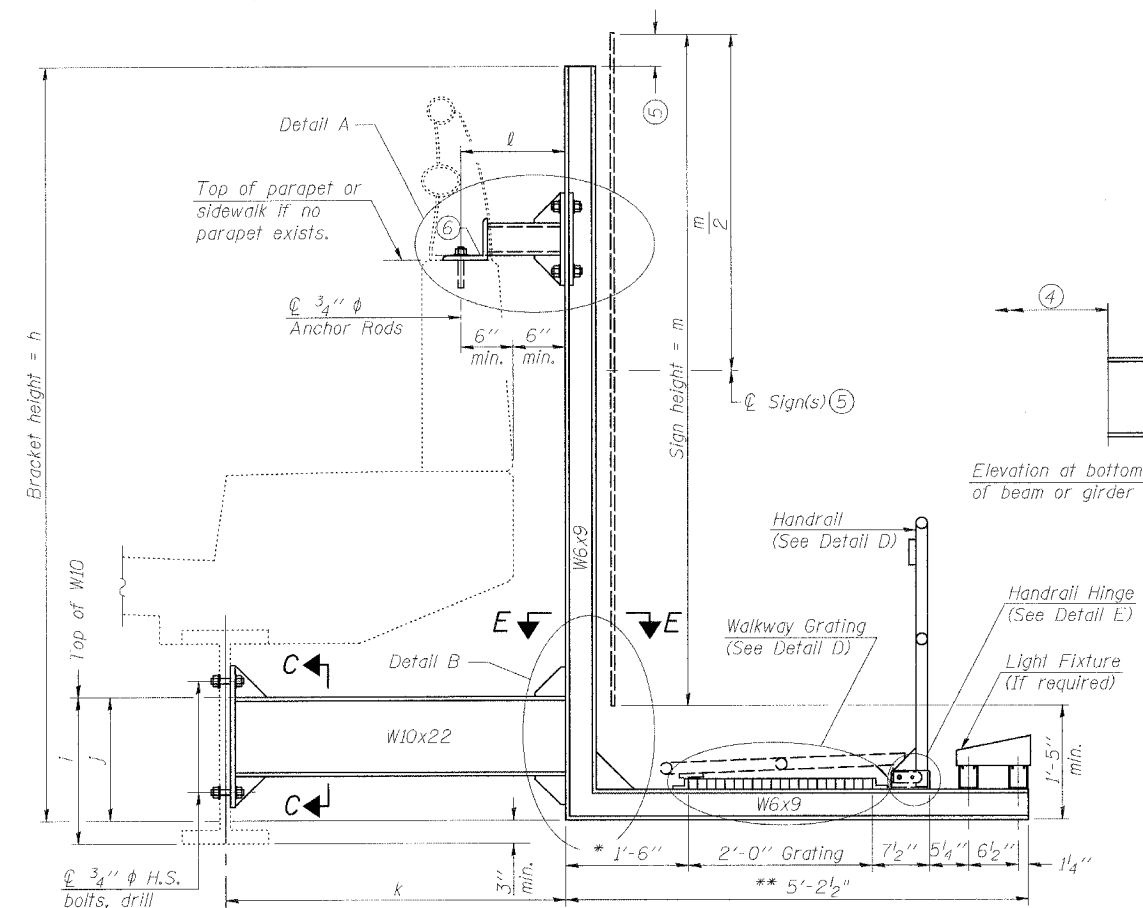
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
BRIDGE MOUNT SIGN STRUCTURES  
GENERAL PLAN AND ELEVATION  
FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006  
DRAWN BY: LCM  
CHECKED BY: WJV

Contract #60A65



**SECTION A-A**

Details for mounting to steel beam or girder  
& Details for mounting with existing parapet mounted rail

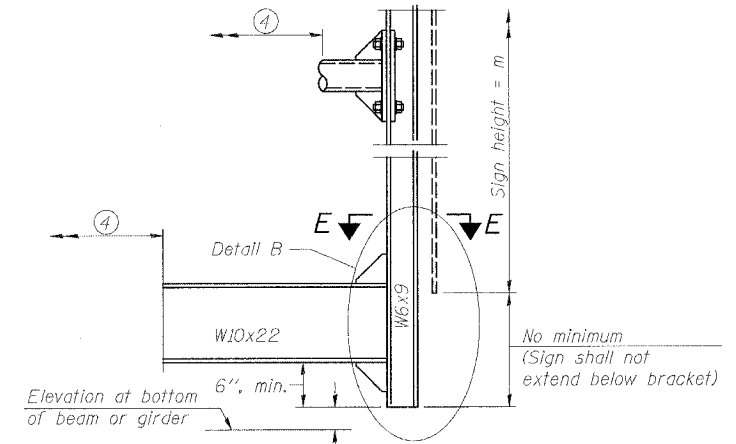
\* 3'-10" for brackets at 99+85.00  
\*\* 7'-6 1/2" for brackets at 99+85.00

Structure Number	Station	h (12'-0" max.)	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (11'-0" max.)
1B0161094R042.5	99+60.50	10'-0"	1'-8"	1'-4"	6'-2 1/2"	3'-4"	9'-0"
1B0161094R042.5	99+85.00	10'-0"	1'-8"	1'-4"	3'-10 1/2"	1'-0"	9'-0"
1B0161094L042.5	100+16.00	12'-0"	1'-8"	1'-4"	3'-10 1/2"	1'-0"	11'-0"
1B0161094L042.5	100+39.50	12'-0"	1'-8"	1'-4"	3'-10 1/2"	1'-0"	11'-0"

For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.  
For Details D & E, see Base Sheet BM-4.

- Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

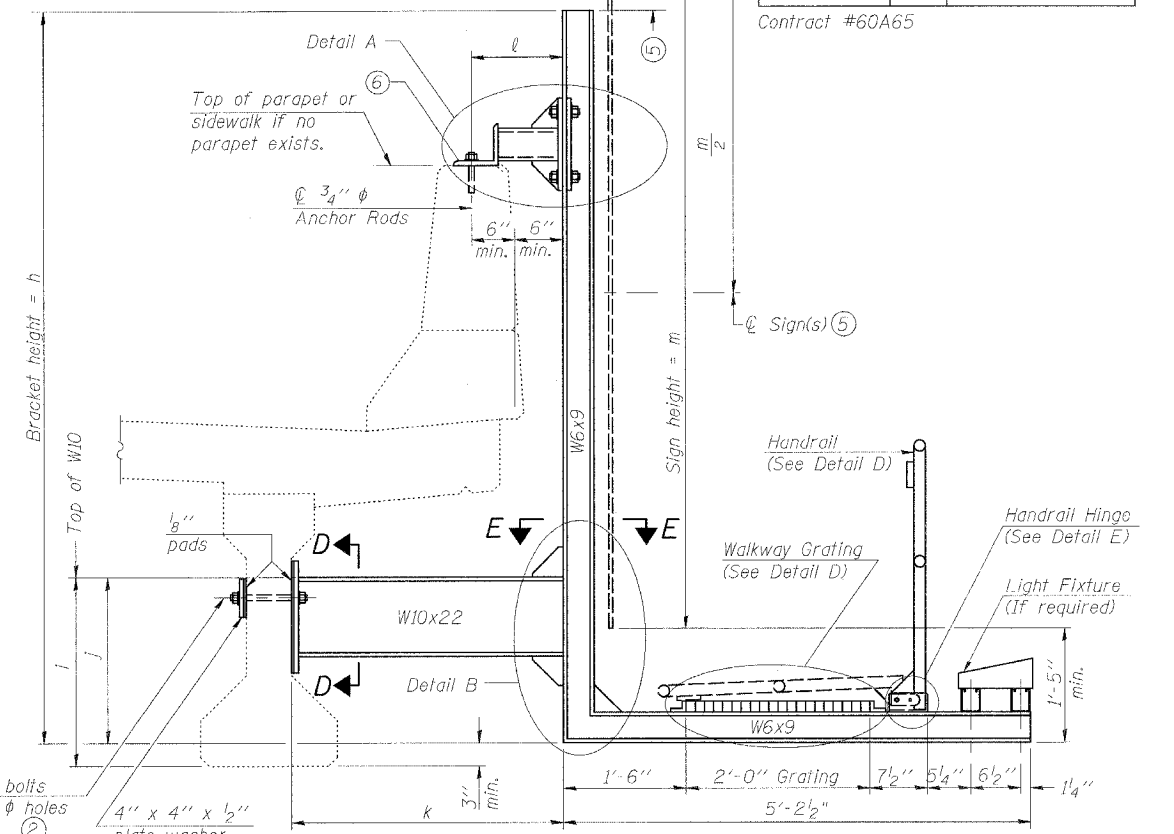
NUMBER	REVISION	DATE



**SECTION A-A**

Alternate with no lights or walkways

- For attachment details of 3/2" pipe and W10x22, see other sections as applicable.

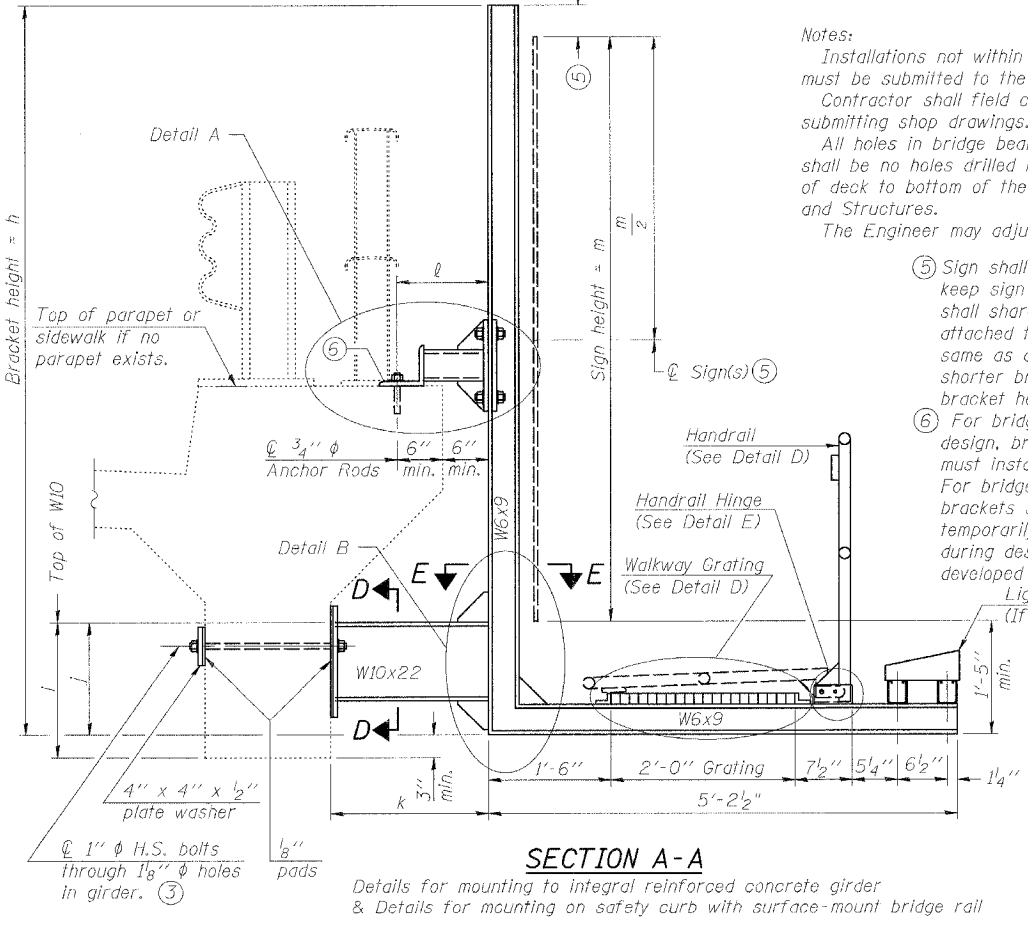


**SECTION A-A**

Details for mounting to PPC I Beam or Bulb "T"  
& Details for mounting to parapet w/o rail

- Notes:
- Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
  - All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.
  - The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x9 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.



**SECTION A-A**

Details for mounting to integral reinforced concrete girder  
& Details for mounting on safety curb with surface-mount bridge rail

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ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES  
WALKWAY AND CONNECTION DETAILS

FOSTER AVE. OVER I-94 (EDENS EXPRESSWAY)  
FAU RTE 1360 - SECTION 0101BR-2  
COOK COUNTY  
STATION 100+00  
STRUCTURE NO. 016-0246

DATE: 4/30/2006

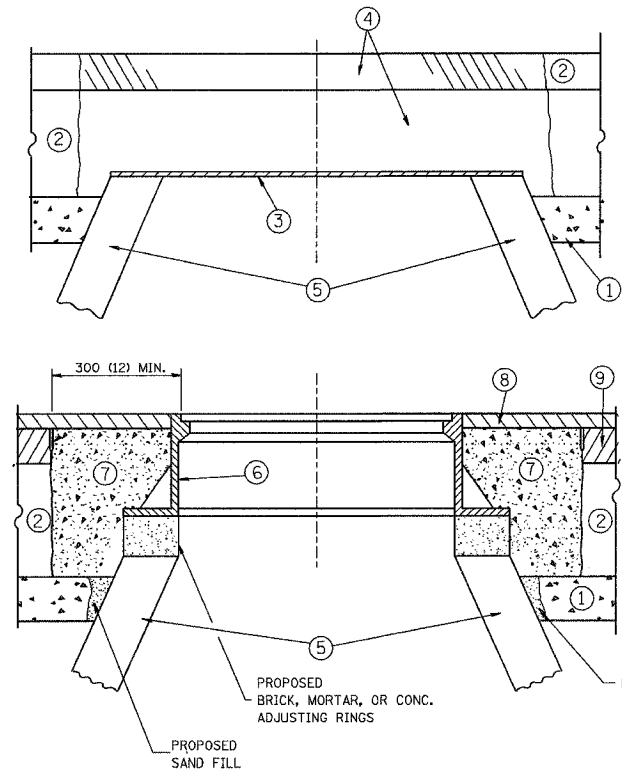
DRAWN BY LCM  
CHECKED BY WJV







F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1380	0101BR-2	COOK	90	75
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 300 (12) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 900 (36) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 40 (1 1/2) THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 900 (36) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND BITUMINOUS MATERIAL
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL
- ⑧ PROPOSED BITUMINOUS CONCRETE SURFACE COURSE
- ⑨ PROPOSED BITUMINOUS CONCRETE BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:** FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

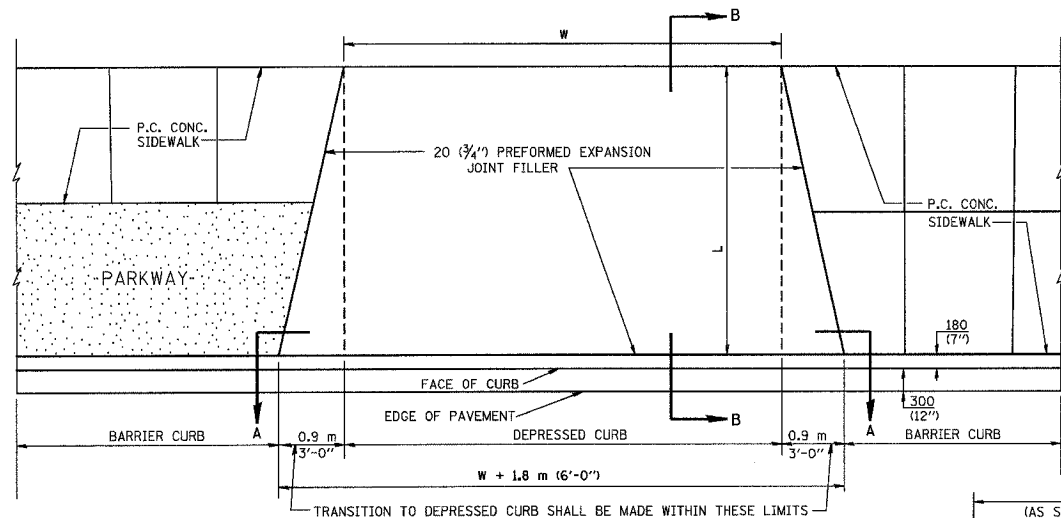
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DRAWN BY CHECKED BY

BD600-03 (BD-8)  
REVISION DATE: 05/17/04

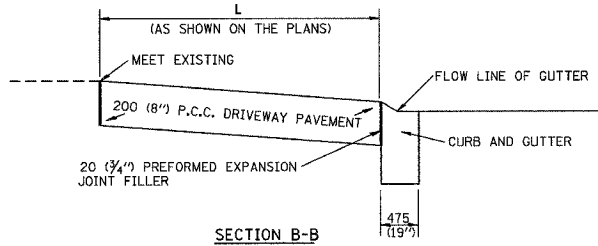
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PLOT SCALE = 4:1  
USER NAME = gajlendeb

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

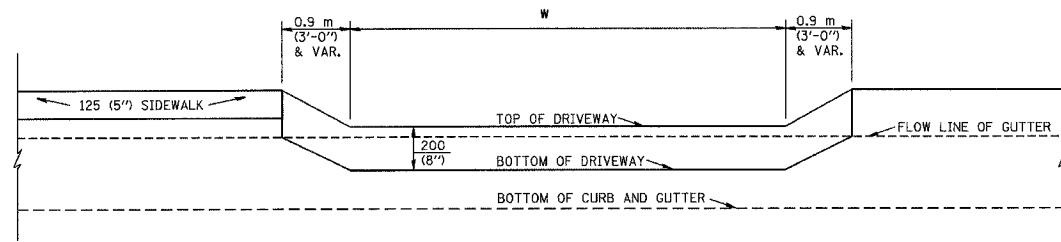


PLAN VIEW

- NOTES:
- EXPANSION JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS FOR P.C.C. SIDEWALK.
  - THE CURB BETWEEN ADJACENT DRIVEWAYS SHALL BE FULL HEIGHT FOR A DISTANCE OF AT LEAST FOUR 1.2 METERS (4 FEET).
  - P.C. CONCRETE DRIVEWAYS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
  - 20 (3/4) PREFORMED EXPANSION JOINTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO P.C.C. DRIVEWAY PAVEMENT 200 (8").
  - COMBINATION CONC. CURB AND GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE TRANSITION CURB AND GUTTER.

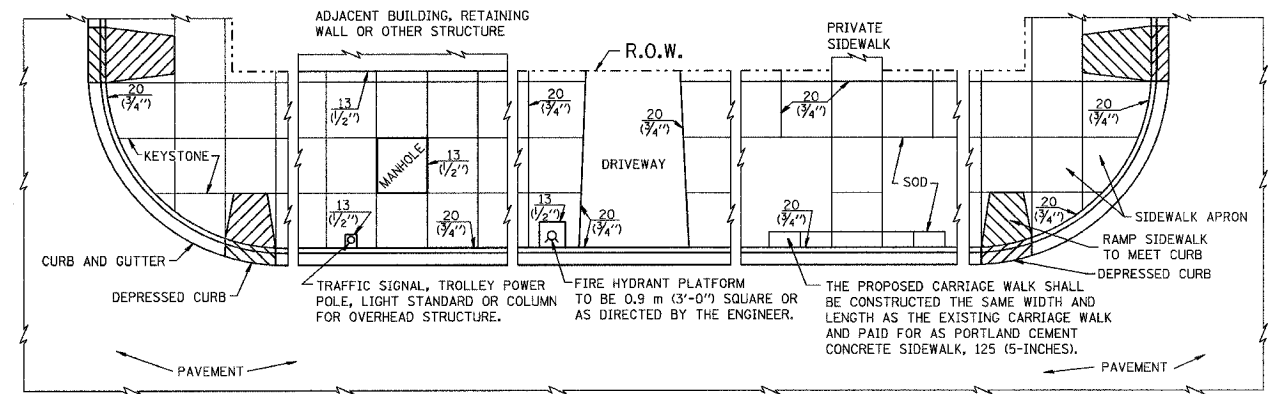


SECTION B-B



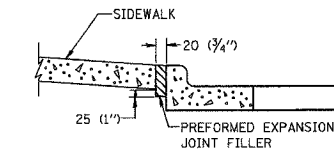
SECTION A-A

P.C.C. DRIVEWAY PAVEMENT DETAIL



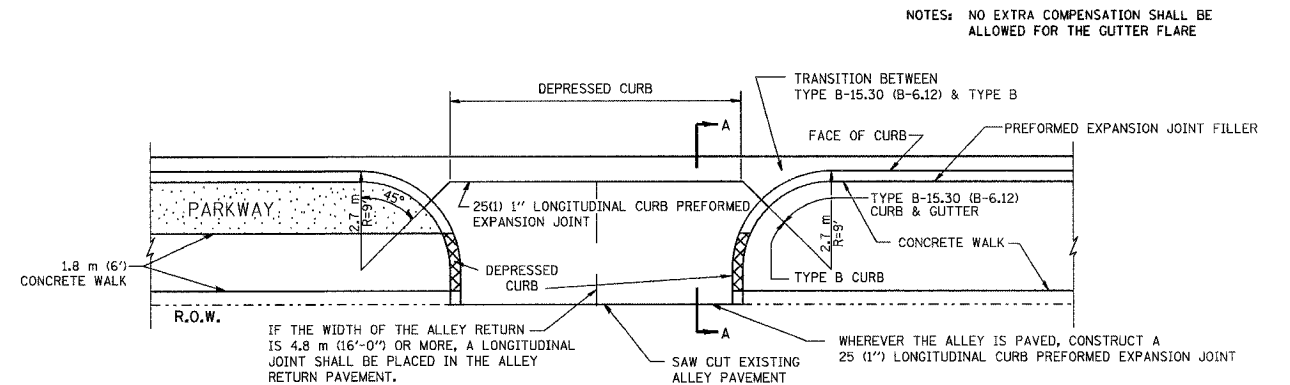
NOTES:

- ONE-HALF INCH THICK EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS LIGHT STANDARDS, TRAFFIC LIGHT STANDARDS, MANHOLES, WHICH EXTEND THROUGH THE SIDEWALK.
- 20 (3/4) THICK EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 30 METERS (100 FEET) IN THE SIDEWALK. WHERE THE SIDEWALK IS CONSTRUCTED ADJACENT TO PAVEMENT OR CURB HAVING EXPANSION JOINTS, THE EXPANSION JOINTS IN THE SIDEWALK SHALL BE PLACED OPPOSITE THE EXISTING EXPANSION JOINTS AS NEARLY AS PRACTICABLE. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS, BETWEEN DRIVEWAY PAVEMENT AND SIDEWALK, AND BETWEEN SIDEWALK AND CURBS WHERE THE SIDEWALK ABUTS A CURB.

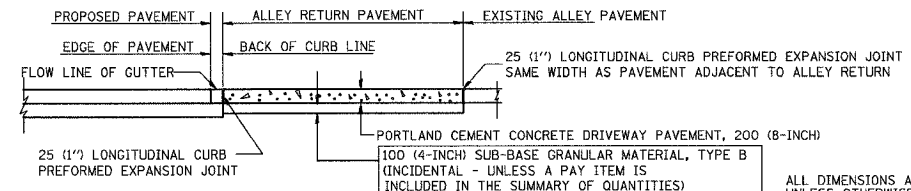


SLOPE FOR SIDEWALK  
25 (1") IN 0.9 m (3'-0") IN CHICAGO

PORTLAND CEMENT CONCRETE SIDEWALK DETAILS



NOTES: NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE GUTTER FLARE



SECTION A-A

ALLEY RETURN DETAIL

REVISIONS	
NAME	DATE
M. DE YONG	06/13/90

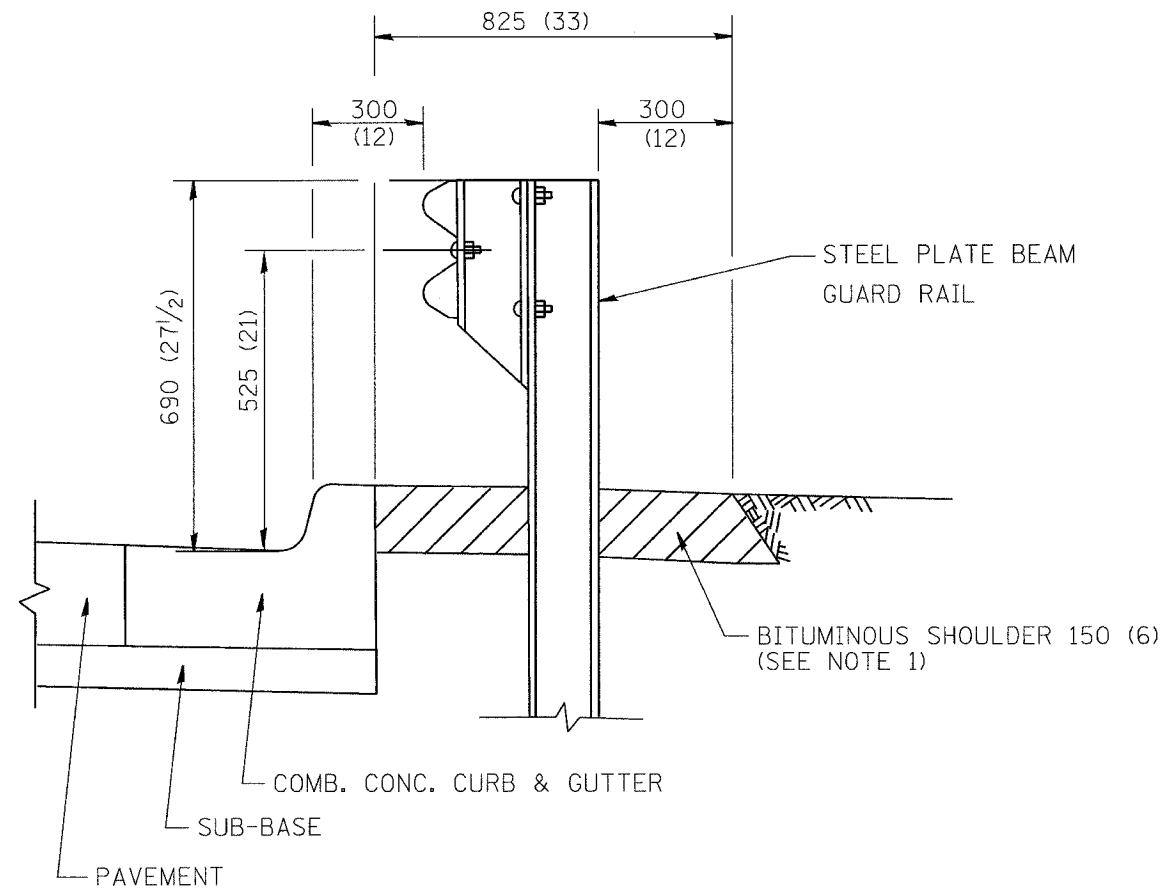
ILLINOIS DEPARTMENT OF TRANSPORTATION  
CITY OF CHICAGO  
DETAILS FOR P.C. CONCRETE  
DRIVEWAY, ALLEY RETURN  
AND SIDEWALK

SCALE: VERT.  
HORIZ.  
DATE: 2/15/2006

DRAWN BY  
CHECKED BY

BD400-03 (BD-17)  
REVISION DATE: 06/13/90

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1380	0101BR-2	COOK	90	77
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

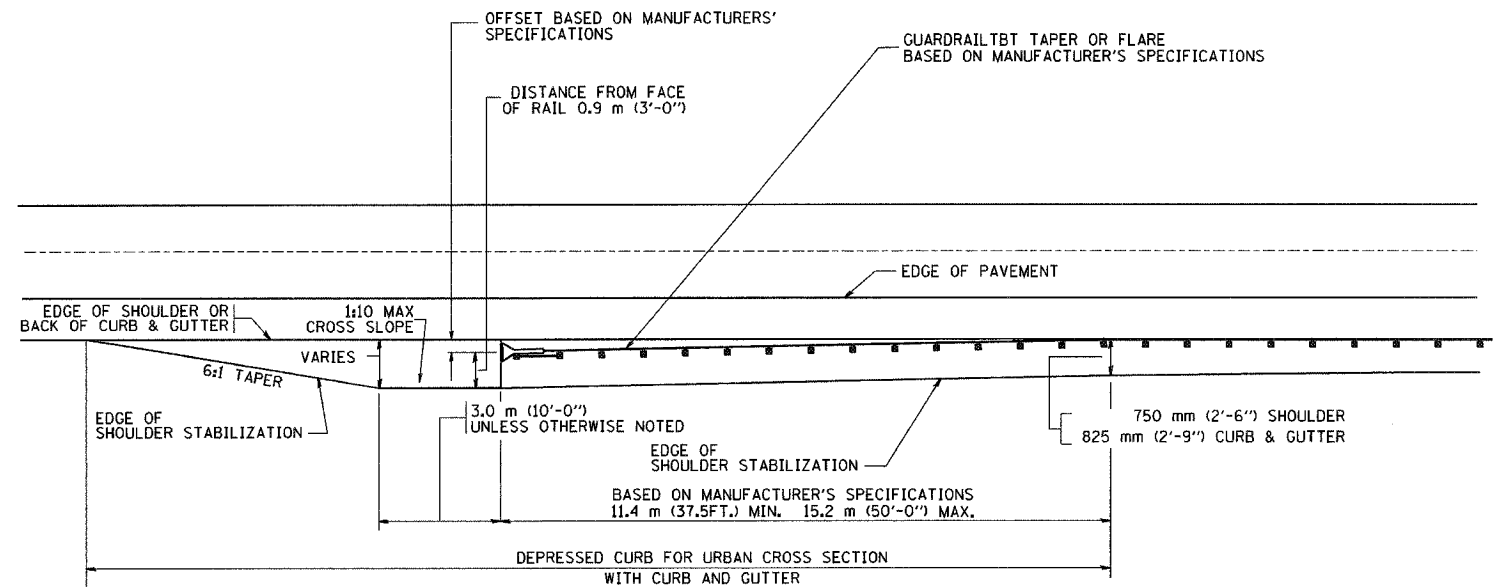


- NOTES: 1. THE BITUMINOUS SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: BITUMINOUS SHOULDER 150 (6) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER m<sup>2</sup> (sq. yd.) AS "BITUMINOUS SHOULDER 150 (6)."

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER  
 [FOR ROADWAY SPEED 60 kmh (35 MPH) TO 70 kmh (45 MPH)]



STABILIZATION AT TBT TY. 1 SPL.

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

REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

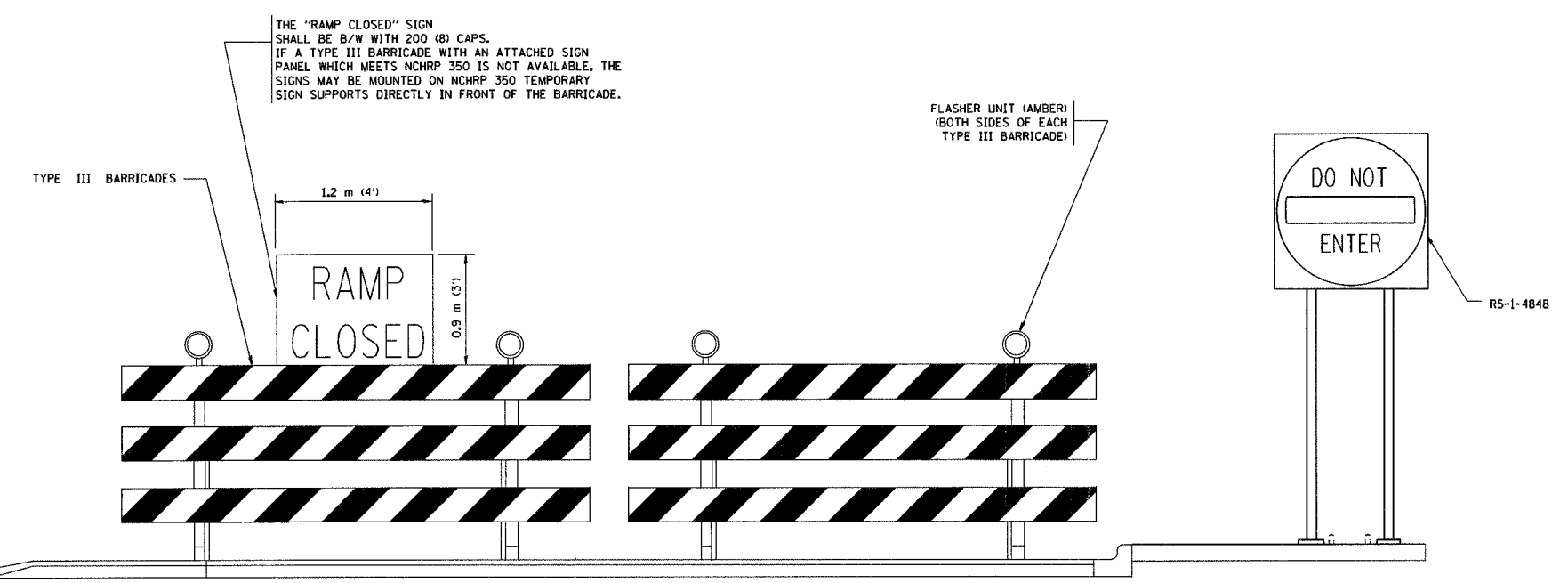
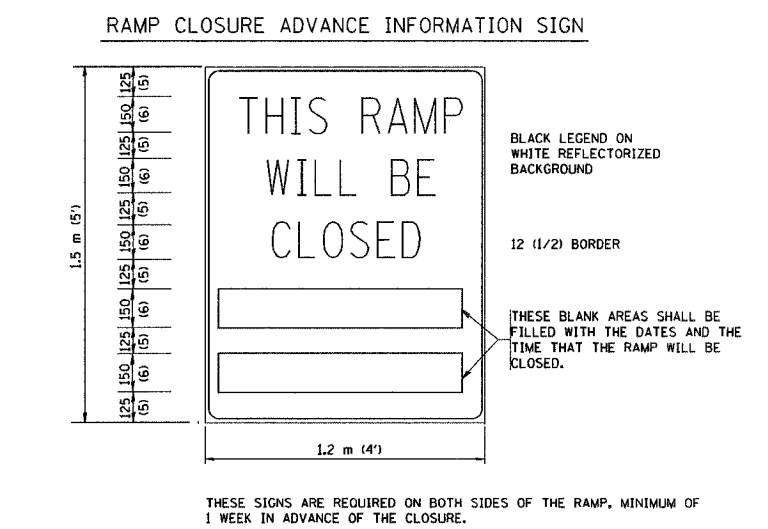
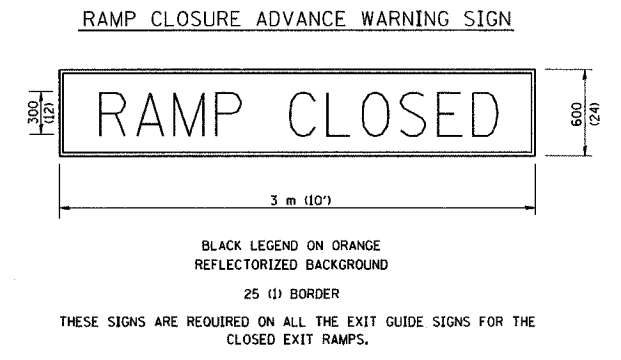
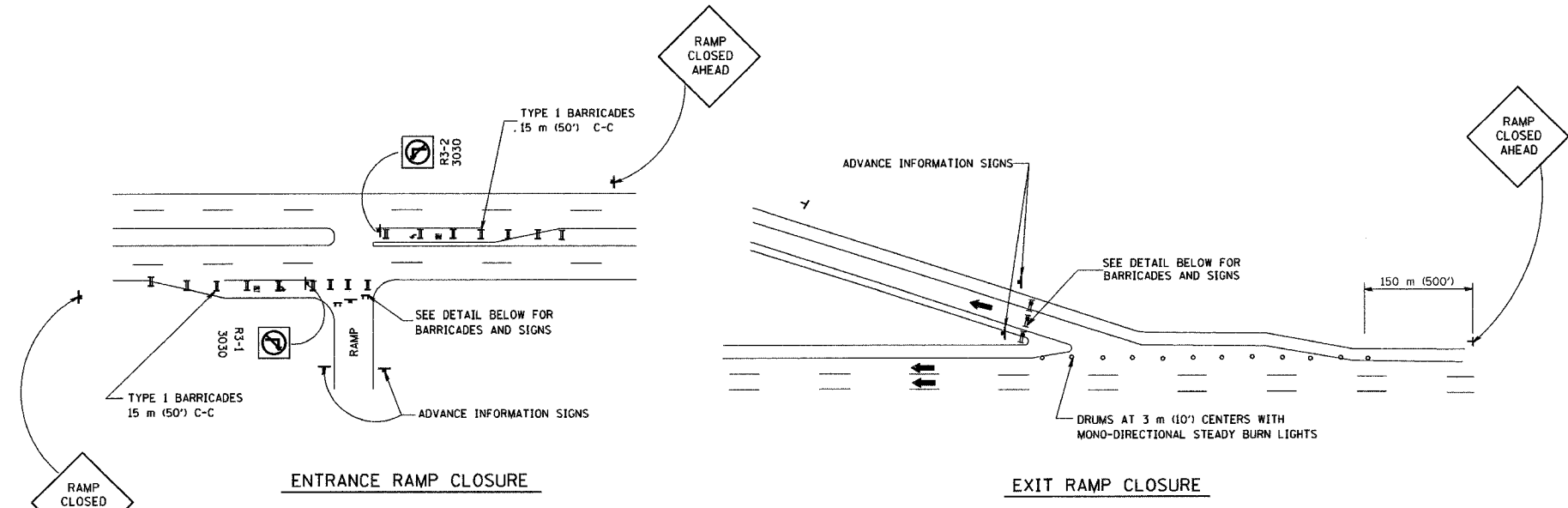
**DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.**

SCALE: VERT. HORIZ. DATE: 2/15/2006

DRAWN BY jls CHECKED BY



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	79
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- GENERAL NOTES:
- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (28) HIGH.
  - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
  - A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
  - FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
  - ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
  - THE SIGNING AND BARRICADEING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
  - AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
  - 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 TWENTY FOUR (24) HOURS IN LENGTH.

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

REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
JAF	2/06
Revise devices to meet NCHRP 350	4/03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FREWAY**  
**ENTRANCE AND EXIT RAMP**  
**CLOSURE DETAILS**

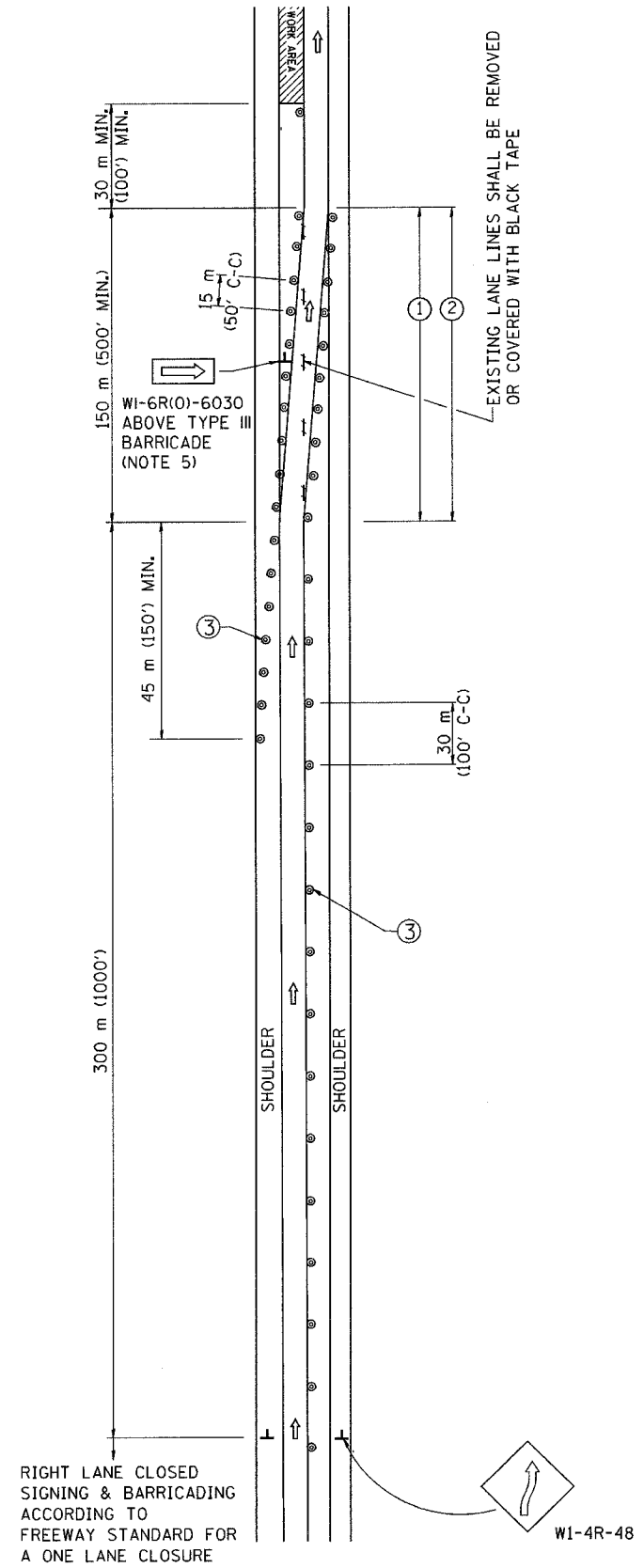
SCALE: DATE: 3/1/2006

DRAWN BY: CHECKED BY:

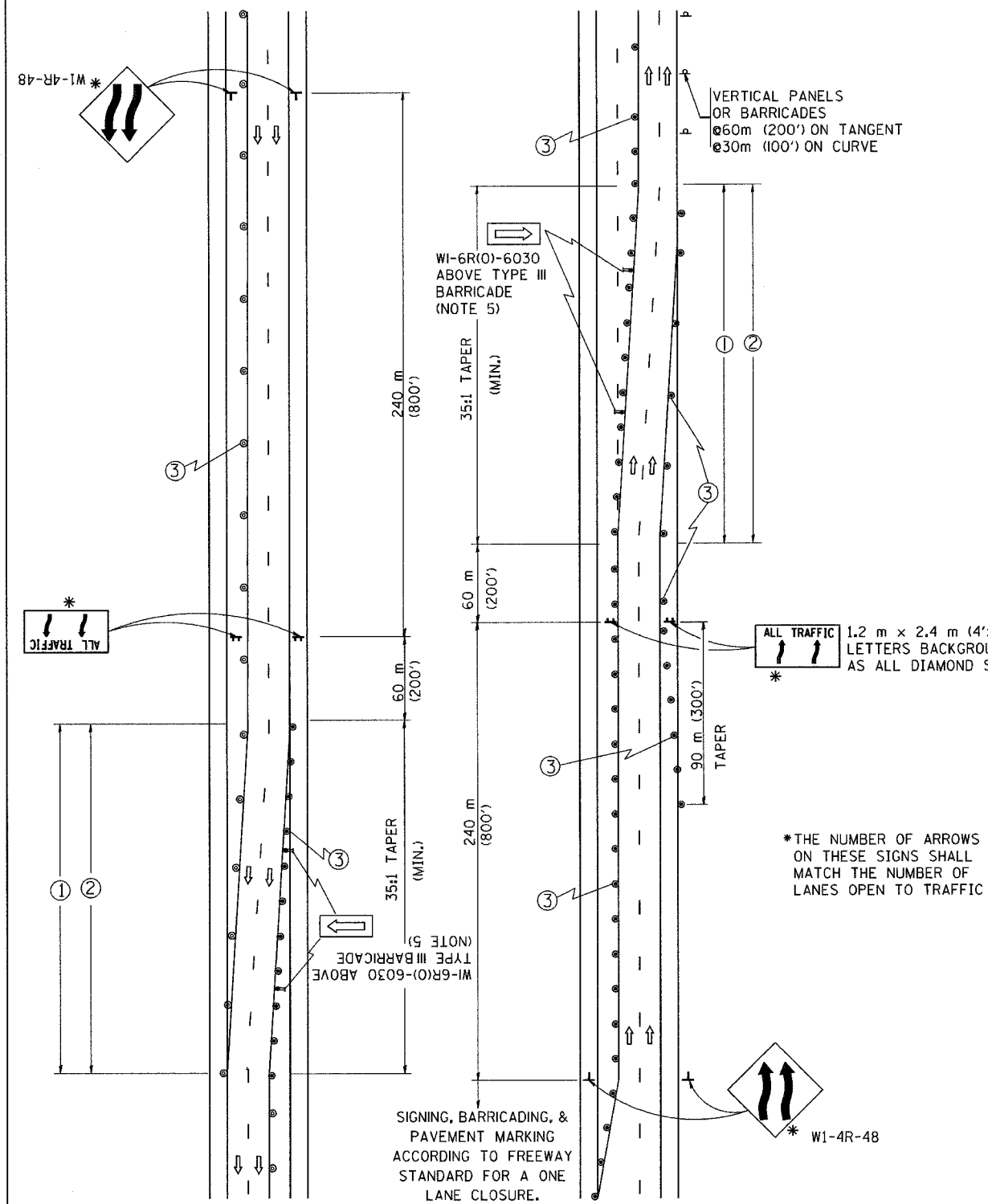
PLOT DATE = 3/1/2006  
 PLOT SCALE = 80000 / IN.  
 USER NAME = lrygo

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	80
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

### SINGLE LANE WEAVE



### MULTI-LANE WEAVE



#### GENERAL NOTES

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

#### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03
JAF	2/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL DETAILS  
 FOR FREEWAY  
 SINGLE & MULTI-LANE WEAVE

SCALE: DATE: 3/1/2006

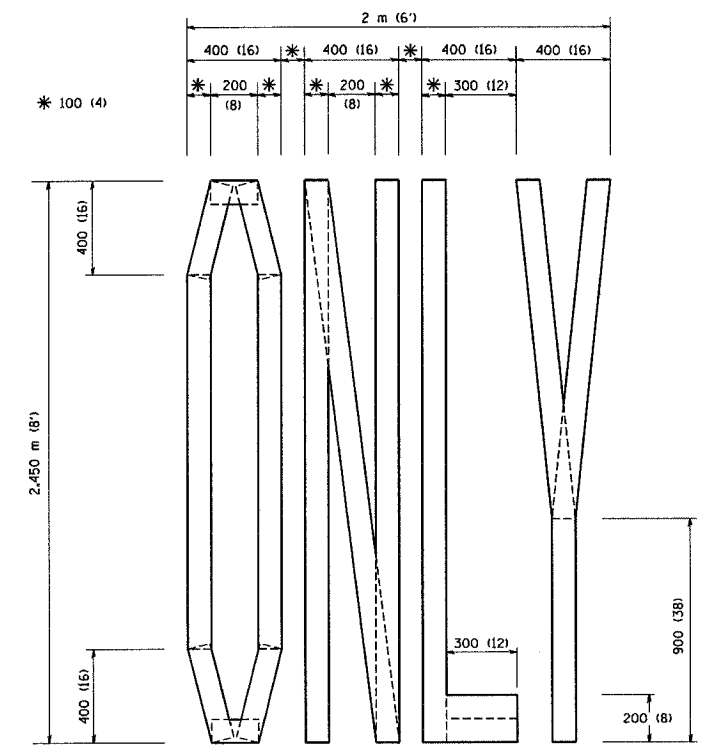
DRAWN BY R.H.  
 CHECKED BY

TC-9  
 REVISION DATE: 02/28/06

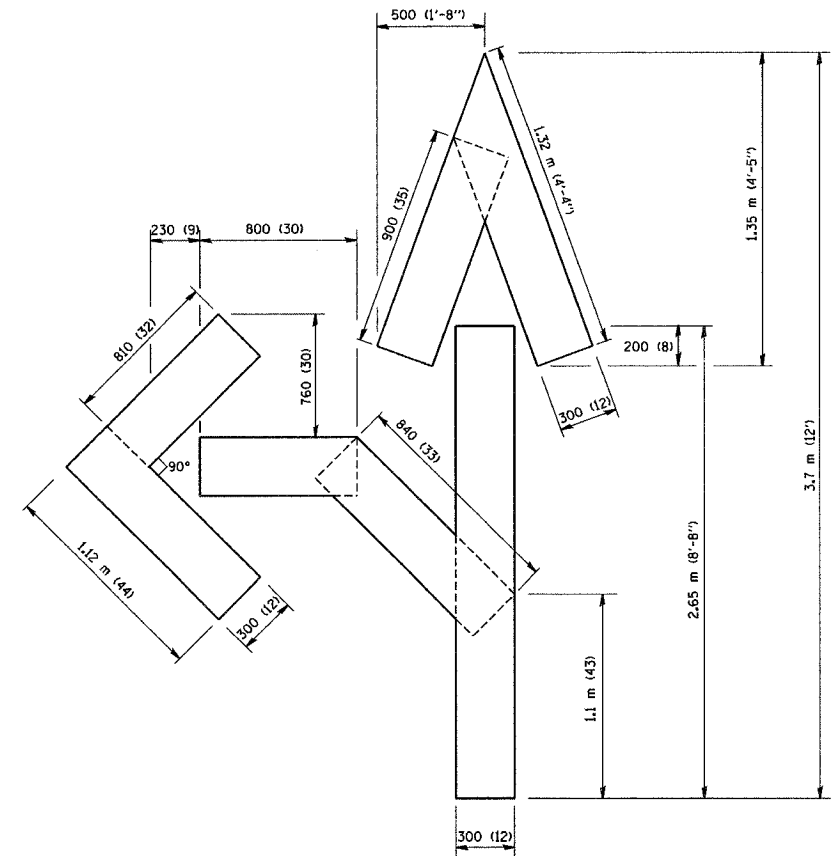
PLOT DATE: 3/1/2006  
 PLOT SCALE: 60000 / IN.  
 USER NAME: jaf



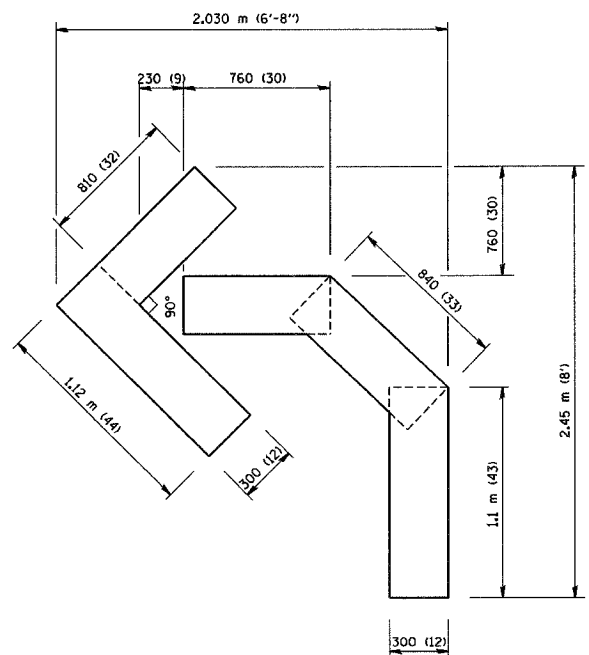
CONTRACT NO.				
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	D101BR-2	COOK	90	81
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



QUANTITY  
 100 (4) LINE = 19.7 m (64.1 ft.)  
 1.97 sq. m (21.1 sq. ft.)



QUANTITY  
 100 (4) LINE = 25.3 m (82.5 ft.)  
 2.53 sq. m (27.5 sq. ft.)



QUANTITY  
 100 (4) LINE = 13.9 m (45.5 ft.)  
 1.39 sq. m (15.2 sq. ft.)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING  
 LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: NONE  
 DATE: 2/15/2006

DRAWN BY CADD  
 CHECKED BY TC-16

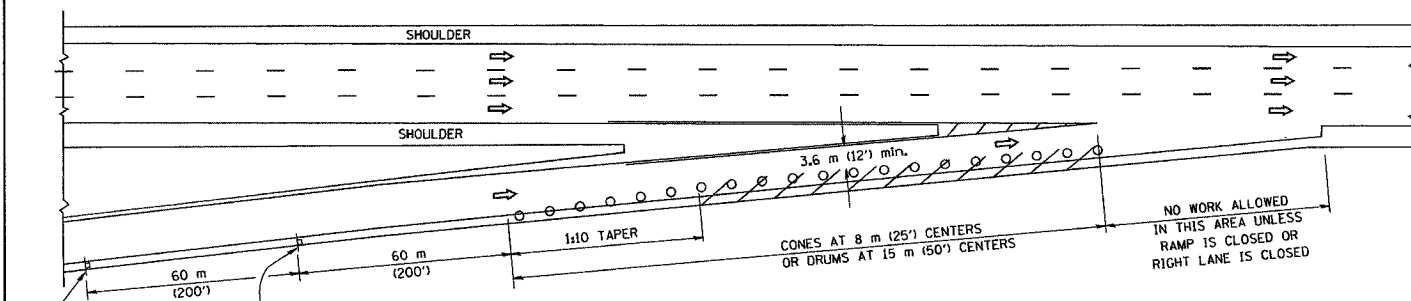
REVISION DATE: 08/28/00

PLOT DATE = 2/10/2006  
 PLOT SCALE = 4:1  
 USER NAME = gogulandob

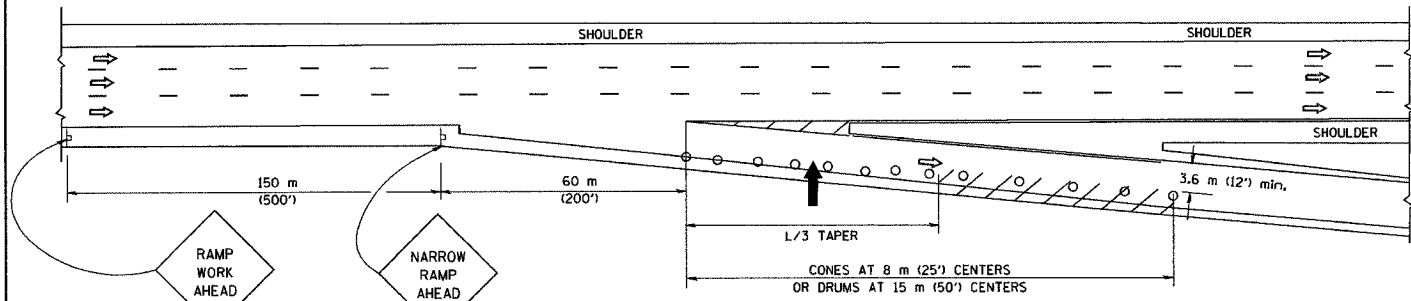
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

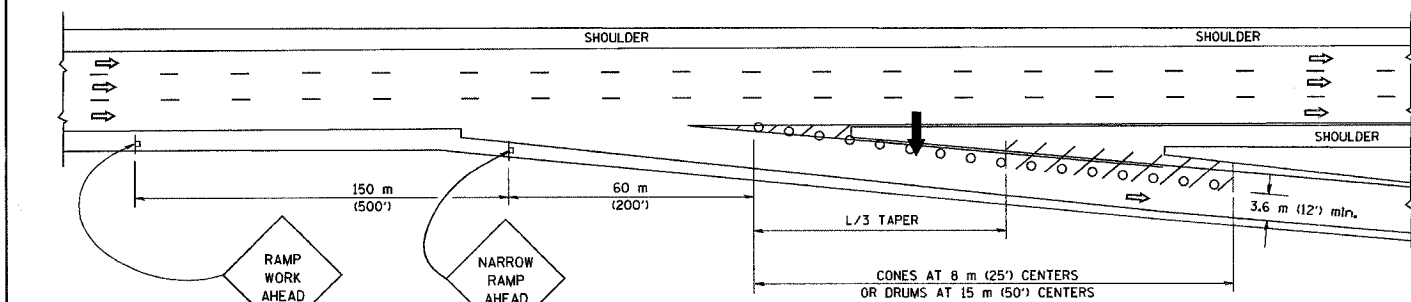
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	82
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



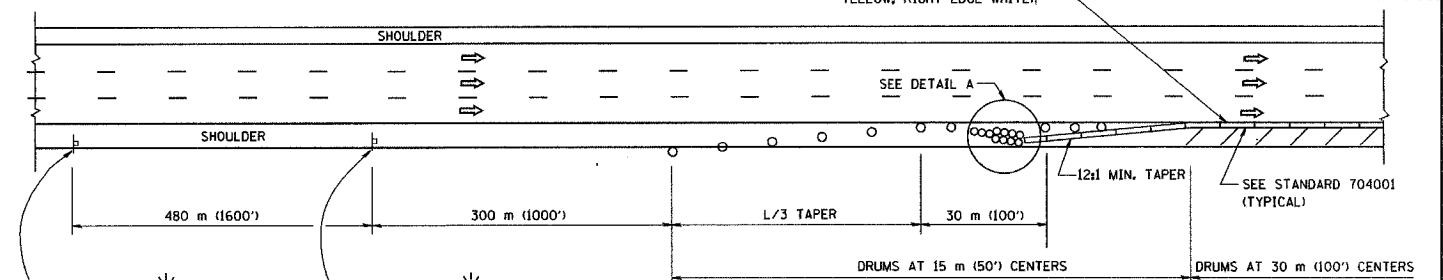
TYPICAL ENTRANCE RAMP



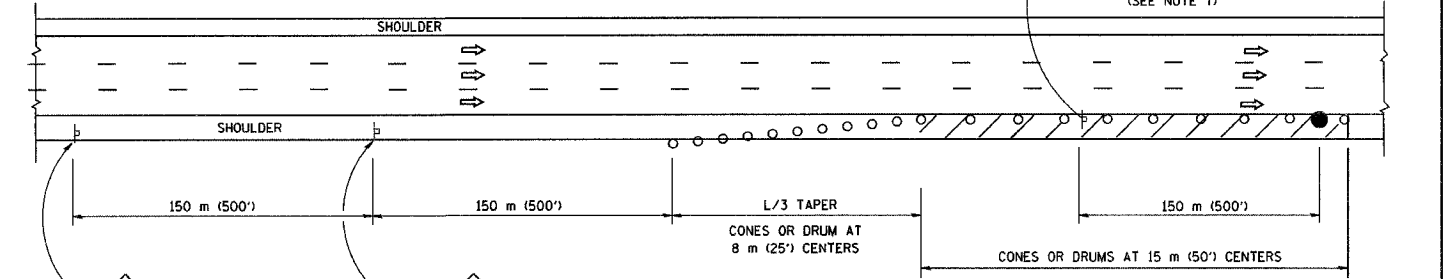
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE

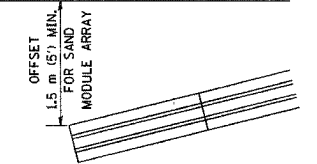


DAYTIME SHOULDER CLOSURE

OR WHEN SPECIFIED INSTALL TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS PER TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)

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

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.



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

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

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
SHOULDER CLOSURES  
PARTIAL RAMP CLOSURES  
DESIGNED BY: DWS  
DRAWN BY:  
CHECKED BY:  
TC-17

SCALE: NONE  
DATE: 3/1/2006

SYMBOLS

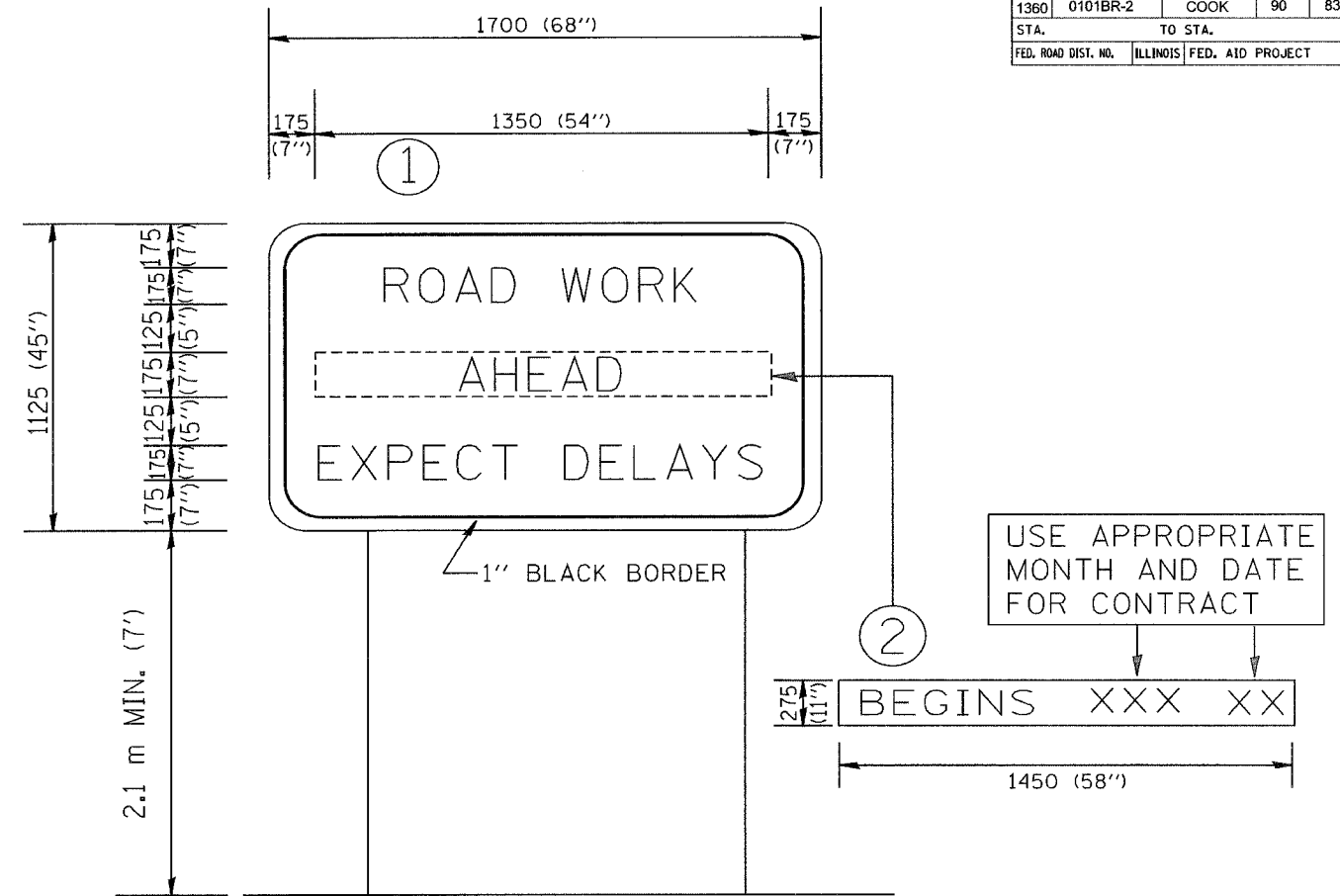
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

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

- 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 "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - THE WORK ACTIVITY REQUIRES FREQUENT ENCRUSHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	83
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION

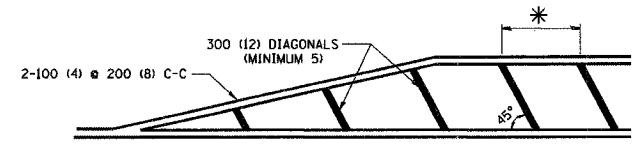
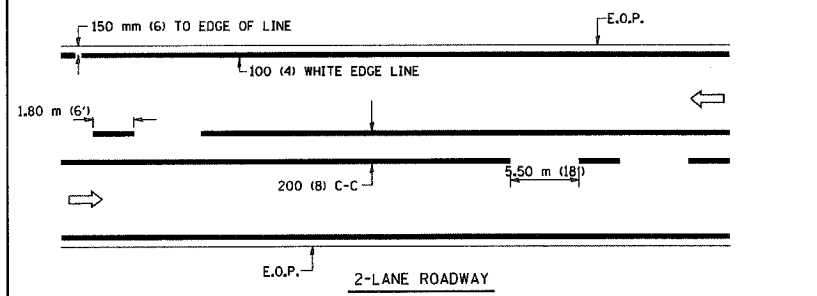
TEMPORARY INFORMATION SIGNING

SCALE:  
DATE: 2/15/2006

DRAWN BY DESIGN  
CHECKED BY

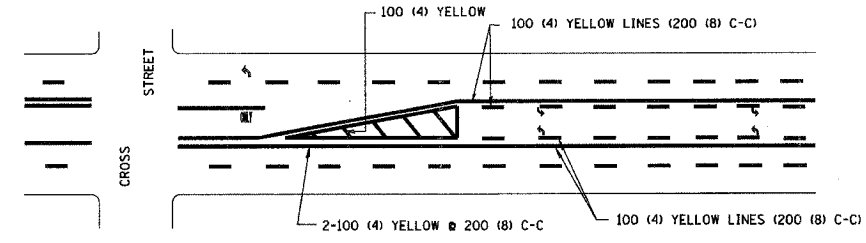
TC22  
REVISION DATE: 02/02/99

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

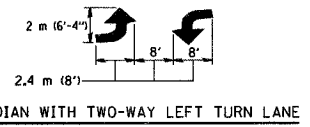


\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
\* DIAGONAL LINE SPACING: 6.1 m (20') C-C

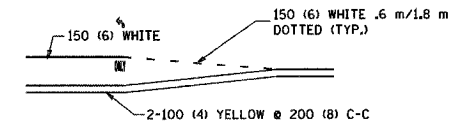
PAINTED MEDIANS



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



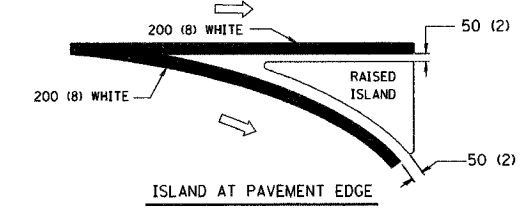
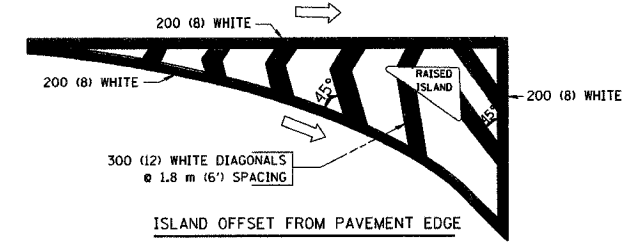
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.  
AREA = 1.47 m<sup>2</sup> (15.8 SQ. FT.) ONLY AREA = 2.13 m<sup>2</sup> (22.9 SQ. FT.)  
\* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

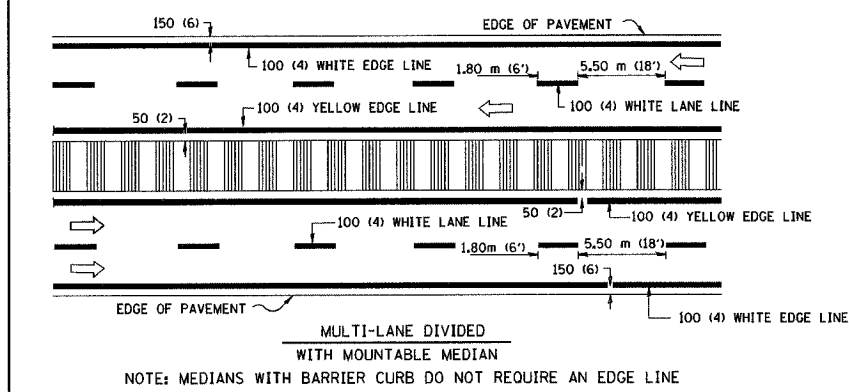
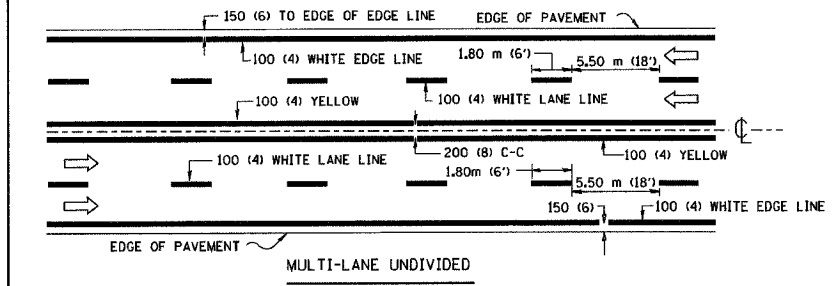
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	1.80 m (6') LINE WITH 5.50 m (18') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	200 (8) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	200 (8) C-C
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	1.80 m (6') LINE WITH 5.50 m (18') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	1.8 m (6') LINE WITH 5.50 m (18') SPACE FOR SKIP-DASH; 200 (8) 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 @ 150 (6) 300 (12) @ 45° 200 (8) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 700 (2'-4") APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	200 (8) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 6.1 m (20') (LESS THAN 50 km/h (30 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m <sup>2</sup> (3.6 SQ. FT.) EACH "X"=5.0 m <sup>2</sup> (54.0 SQ. FT.)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

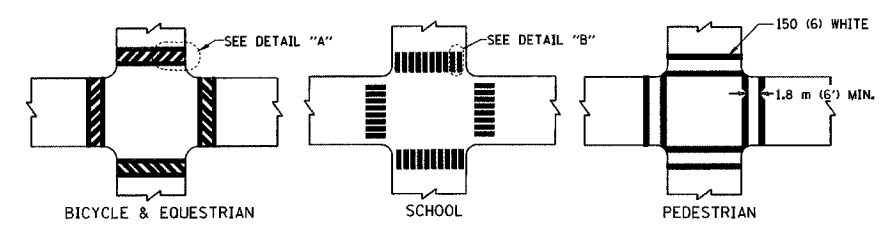
All dimensions are in millimeters (inches) unless otherwise shown. 1 OF 2

REVISIONS	
NAME	DATE
T. RAMMACHER	12/07/00

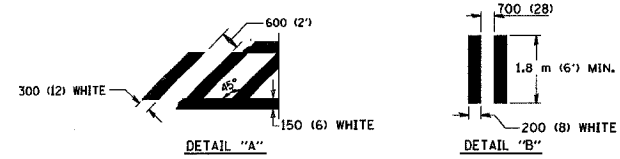
ILLINOIS DEPARTMENT OF TRANSPORTATION  
CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS  
SCALE: NONE  
DATE: 2/15/2006  
DRAWN BY CADD  
CHECKED BY  
TC-24  
REVISION DATE: 12/07/00



TYPICAL LANE AND EDGE LINE MARKING

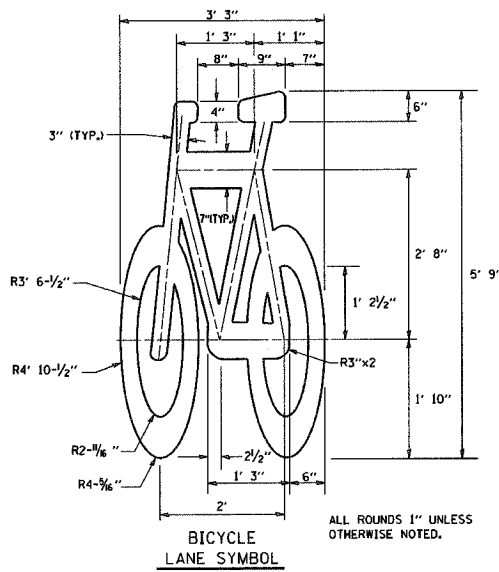
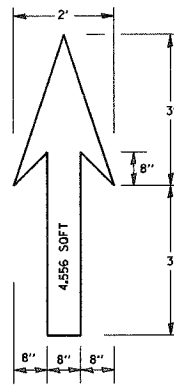


TYPICAL CROSSWALK MARKING



PLOT DATE = 2/16/2006  
PLOT SCALE = 3/16" = 1'-0"  
USER NAME = gajlanob

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	85
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

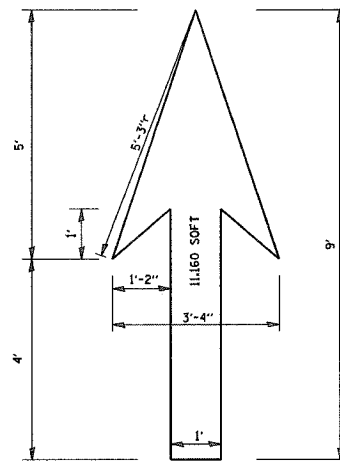


**NOTE:**  
 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.

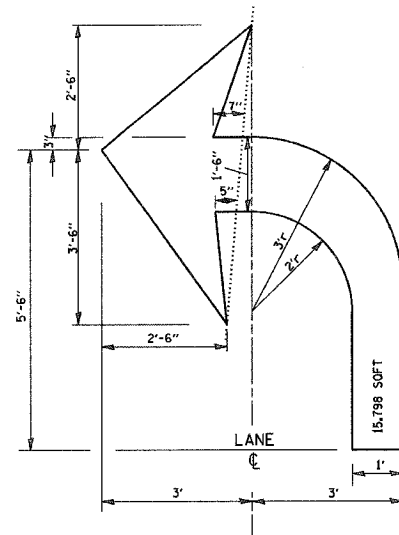
2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

**TYPICAL BIKE LANE SYMBOLS**  
 DRAWING #28

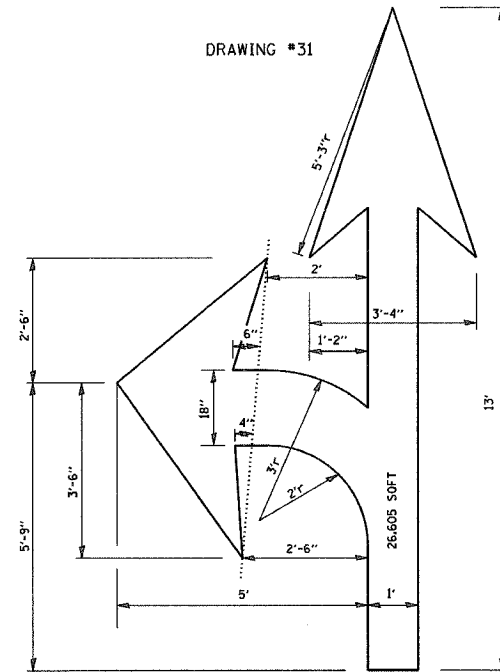
DRAWING #29



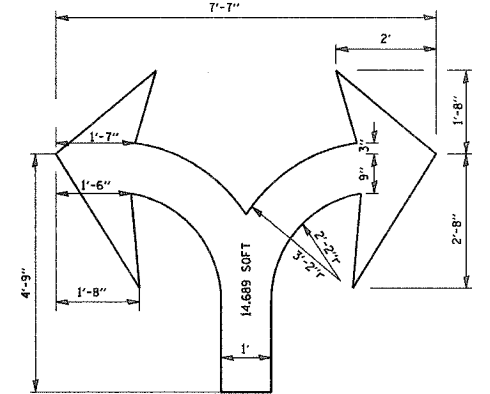
DRAWING #30



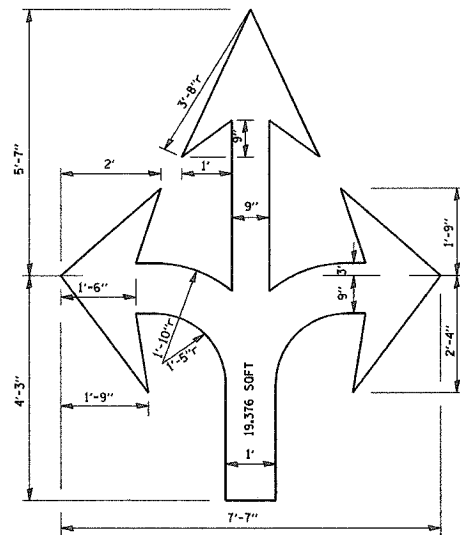
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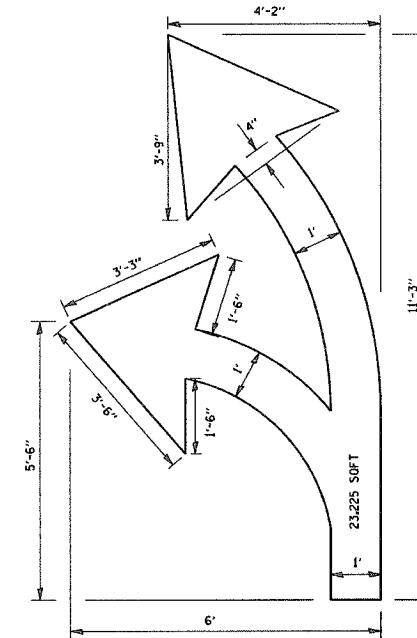
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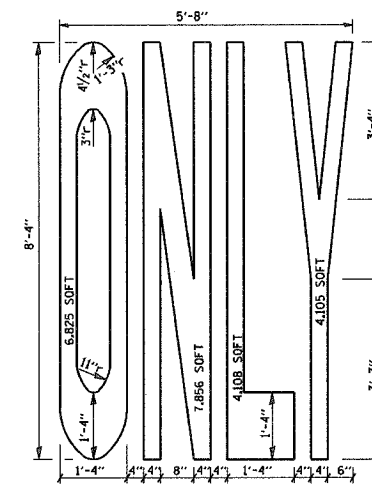
DRAWING #33



DRAWING #34



DRAWING #35



**NOTE:**  
 ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

REVISIONS	
NAME	DATE
T. RAMMACHER	12/07/00

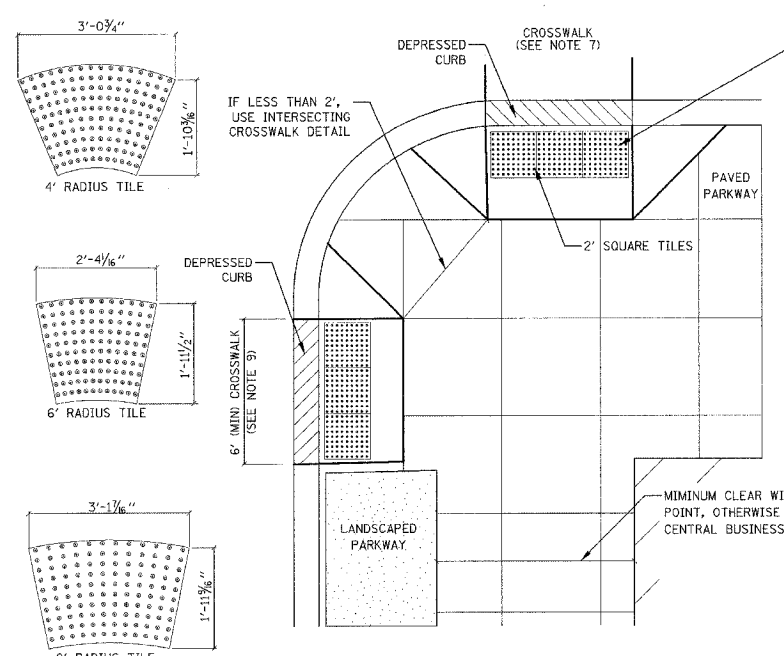
ILLINOIS DEPARTMENT OF TRANSPORTATION

**CITY OF CHICAGO**  
 TYPICAL PAVEMENT MARKINGS.

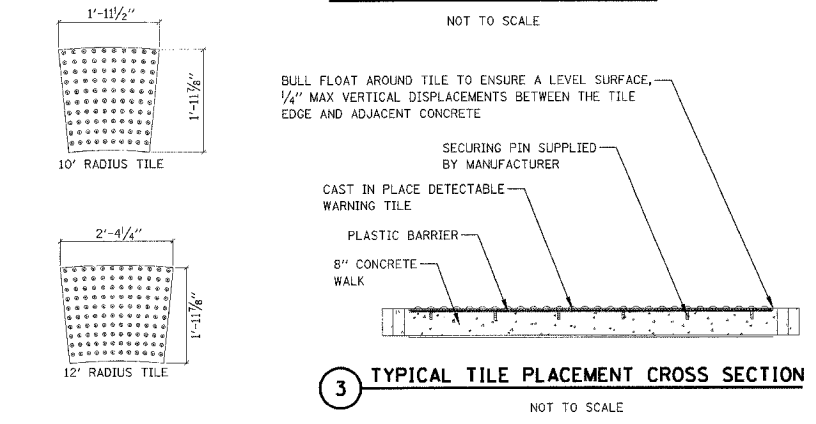
SCALE: NONE  
 DATE: 2/15/2006

DRAWN BY  
 CHECKED BY  
 TC-24

REVISION DATE: 02/25/04



**1 TYPICAL SLOPE WITH FULL WALK WHERE CROSSWALKS DO NOT INTERSECT**  
NOT TO SCALE

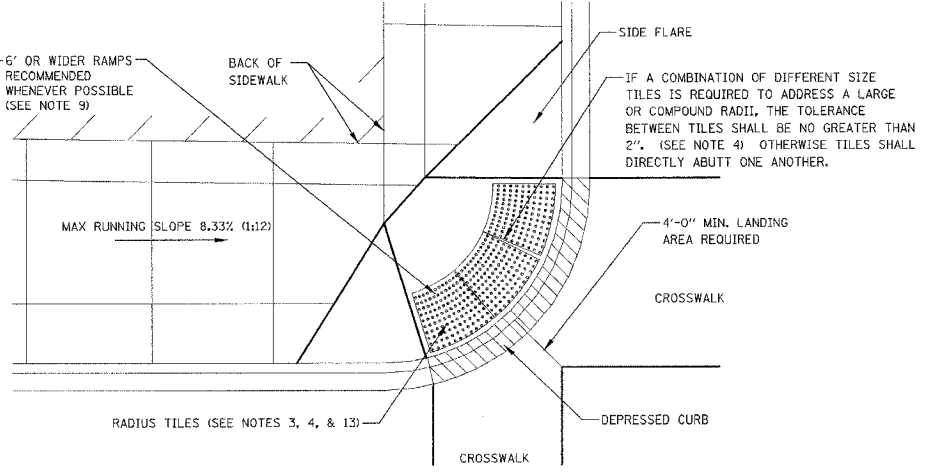


**3 TYPICAL TILE PLACEMENT CROSS SECTION**  
NOT TO SCALE

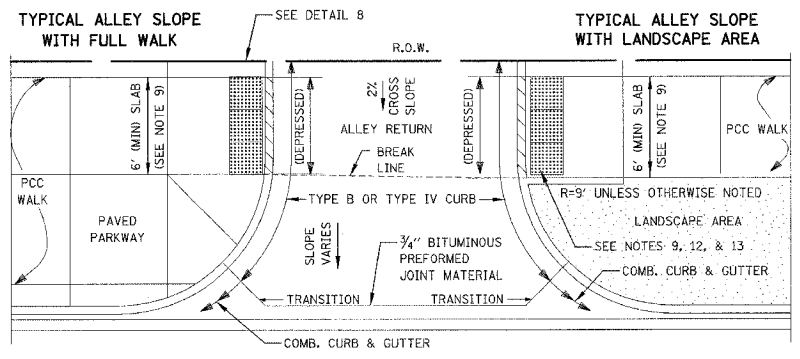
**GENERAL NOTES:**

- THE DETECTABLE WARNING TILES SHALL BE REINFORCED CERAMIC CEMENT (RCC) TILES WHICH MEET THE CHICAGO DEPARTMENT OF TRANSPORTATION SPECIFICATION. (AVAILABLE ON THE CITY OF CHICAGO WEBSITE) THE USE OF DIFFERENT MATERIALS TO MATCH ADJACENT PAVED PARKWAY AREAS MUST BE APPROVED BY THE COMMISSIONER AND MUST COMPLY WITH COLOR CONTRAST REQUIREMENTS. (SEE NOTE 9)
- TILES MUST BE INSTALLED 1 3/4" TO 2 3/4" FROM BACK OF CURB, DEPENDING ON WIDTH OF EXPANSION JOINT.
- TILES MUST COVER FULL WIDTH OF SLOPE EXCLUDING SIDE FLARES.
- TILES MUST COVER FULL WIDTH OF SLOPE IF CROSSWALKS INTERSECT, SEE DETAIL 2.
- WHERE APPLICABLE, A COMBINATION OF DIFFERING SIZE TILES MAY BE USED ON COMPOUND AND LARGE RADII. CONTRACTOR MUST MAKE THIS DETERMINATION AND VERIFY IN FIELD AND WITH THE RESIDENT ENGINEER.
- CONTRACTOR MUST SUBMIT A WRITTEN OR SKETCHED LAYOUT OF ALL SLOPES PRIOR TO ORDERING TILES.
- CONTRACTOR IS NOT ALLOWED TO SUBSTITUTE ANY OTHER METHOD OF SATISFYING THIS CDOT REQUIREMENT.
- ALL SLOPES MUST BE CENTERED ON CROSSWALK. CROSSWALK WIDTH IS THE DISTANCE BETWEEN 2" BACK FROM FACE OF CURB AND THE PROPERTY LINE.
- TILES MUST CONTRAST WITH ADJACENT PAVEMENT. IF LIGHT COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE RED. IF A DARK COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE YELLOW. DESIGNER TO VERIFY THAT PROPER CONTRAST IS OBTAINED.

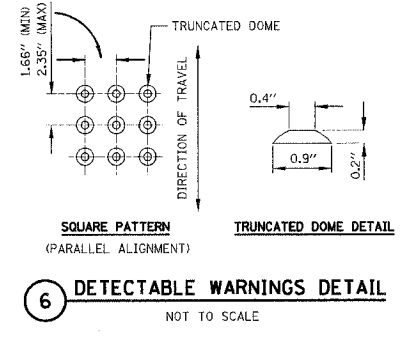
NOMINAL CURB RADII	TILE SIZE
13'-15'	3'-1 7/8" X 1'-11 3/8"
11'-13'	2'-4 1/4" X 1'-11 1/2"
9'-11'	1'-11 1/2" X 1'-11 3/8"
7'-9'	3'-1 7/8" X 1'-11 3/8"
5'-7'	2'-4 1/8" X 1'-11 1/2"
3'-5'	3'-0 3/4" X 1'-10 1/2"



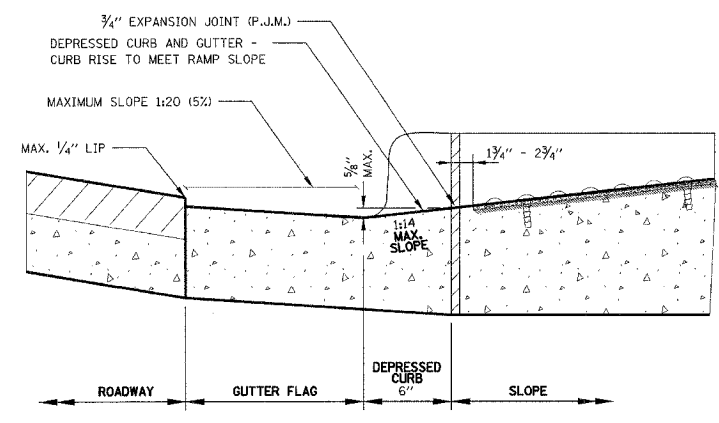
**2 TYPICAL SLOPE WITH FULL WALK WHERE CROSSWALKS INTERSECT**  
NOT TO SCALE



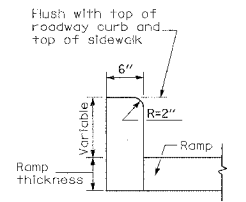
**4 TYPICAL TILE PLACEMENT, ALLEY RETURN**  
NOT TO SCALE



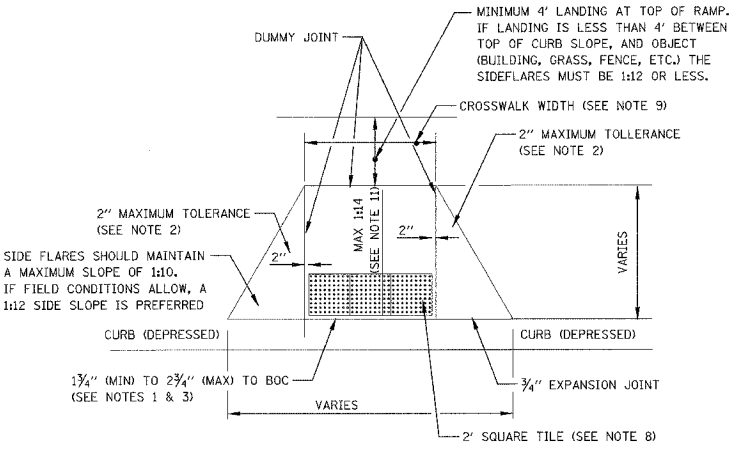
**6 DETECTABLE WARNINGS DETAIL**  
NOT TO SCALE



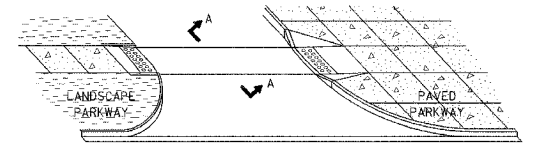
**7 DEPRESSED CURB DETAIL**  
NOT TO SCALE



**8 DETAIL OF SIDE CURB, ONLY AT ALLEYS AND LANDSCAPED PARKWAYS**  
NOT TO SCALE  
(Side curb may be constructed monolithically with ramp)



**5 TILE PLACEMENT DETAIL, WITH FLARES**  
NOT TO SCALE



**9 SLOPES AT ALLEYS OR ENTRANCES**  
NOT TO SCALE

REQUIRED MINIMUM FLARE WIDTHS FOR VARIOUS CURB HEIGHTS		
CURB HEIGHT (INCHES)	FLARE WIDTH (1:10) (INCHES)	FLARE WIDTH (1:12) (INCHES)
3	30	36
4	40	48
5	50	60
6	60	72
7	70	84
8	80	96
9	90	108

**SUGGESTED TILE SUPPLIERS:**

- |   |   |
|---|---|
| BINDEN CORPORATION<br>P.O. BOX 3513<br>OAK BROOK, IL 60523<br>630-734-0277<br>ATTN: THOMAS LALLY, PRESIDENT | TRAFFIC SIGNAL CORPORATION<br>780 W. BELDEN AVE. SUITE D<br>ADDISON, IL 60101<br>630-543-1300<br>ATTN: MITCH BRIGHT, SALES REPRESENTATIVE |
|---|---|

CONSULTANT:

REVISIONS	
NAME	DATE
KEA	5/3/06

CHICAGO DEPARTMENT OF TRANSPORTATION  
DIVISION OF PROJECT DEVELOPMENT

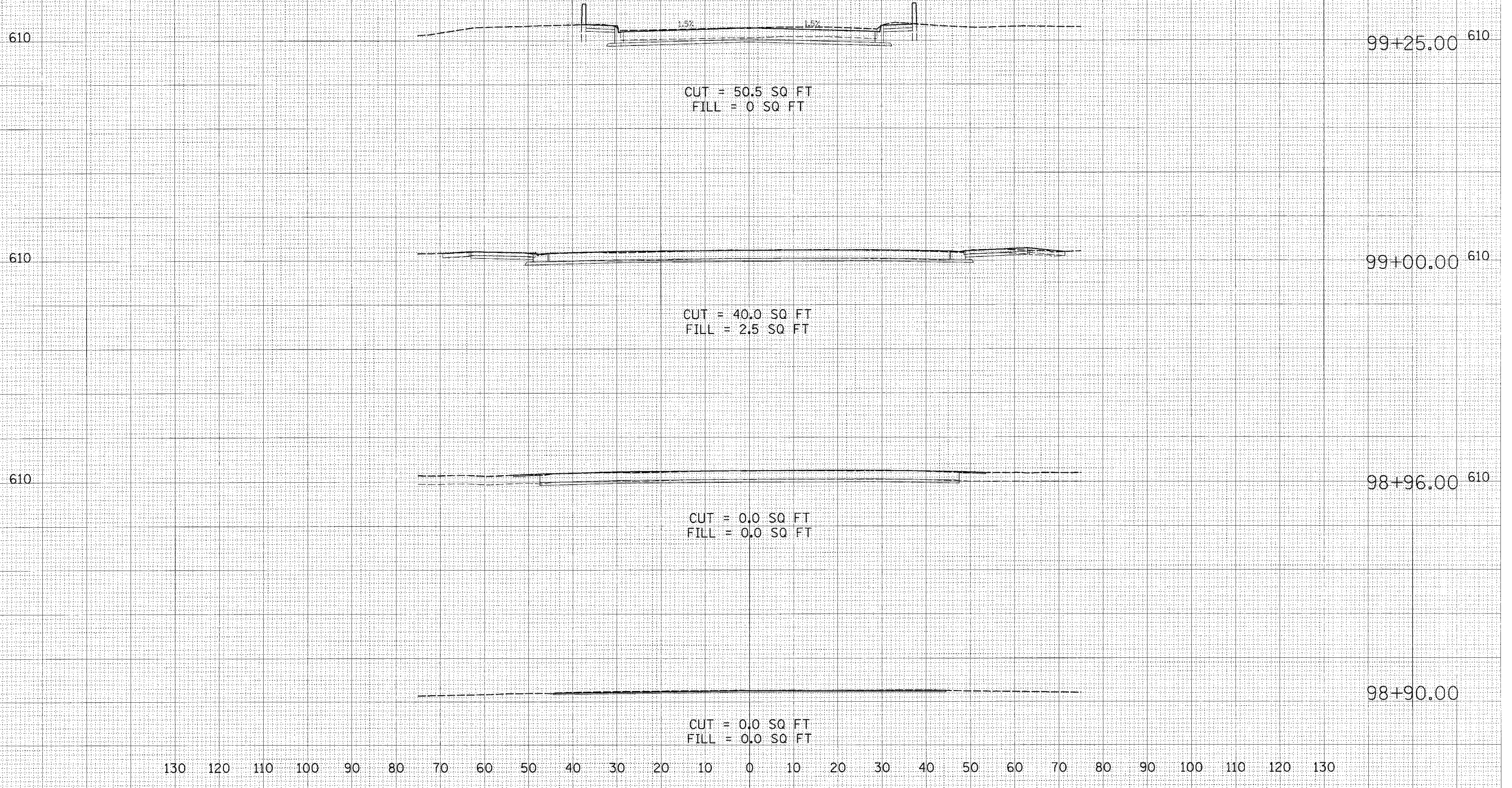
CITY OF CHICAGO  
TYPICAL CURB SLOPE DETAILS

PROJECT NO.:  
SCALE: 1"=10'-0"  
DATE: JUNE 30, 2006

DRAWN BY:  
CHECKED BY:

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	87
STA. 98+90.00		TO STA. 99+25.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BRIDGE OMISSION  
STA. 99+42.00 TO 100+58.00



FINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

DATE \_\_\_\_\_

BY \_\_\_\_\_

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

BY \_\_\_\_\_

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

DATE \_\_\_\_\_

BY \_\_\_\_\_

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

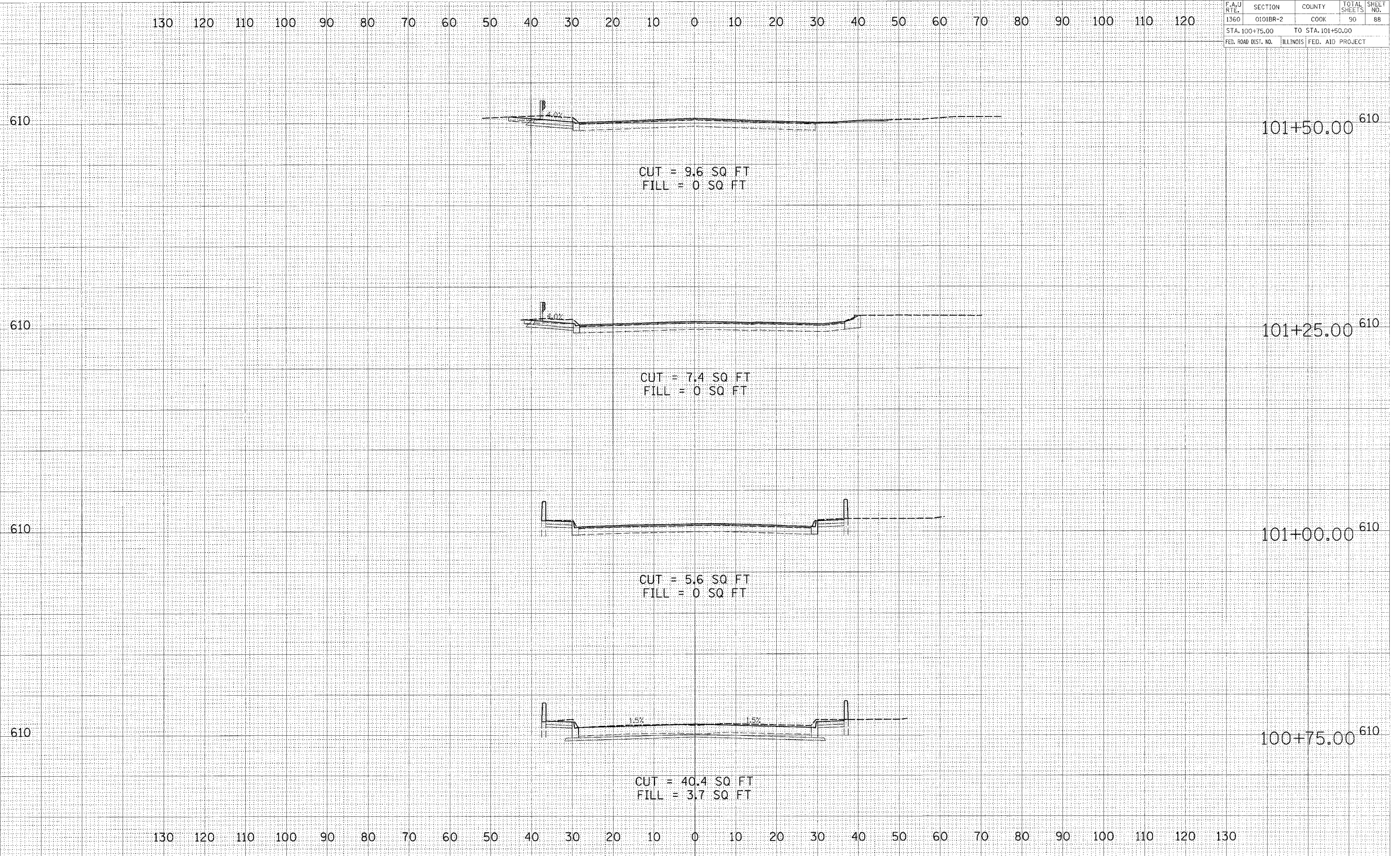
BY \_\_\_\_\_

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	88
STA. 100+75.00		TO STA. 101+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

ORIGINAL SURVEY  
DATE  
BY  
SURVEYED  
TEMPLATE  
NOTE BOOK  
NO.  
CHECKED

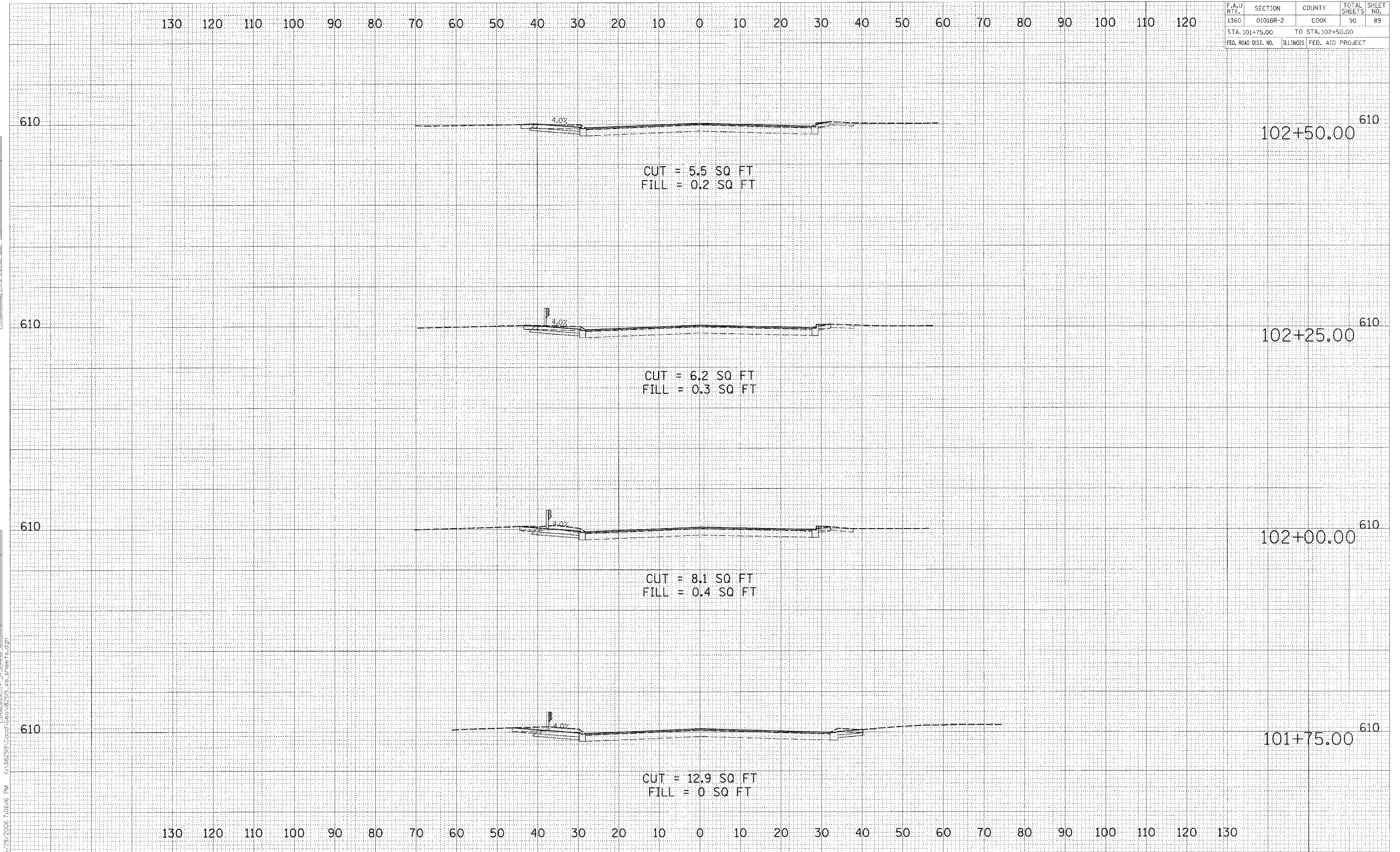
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	89
STA. 101+75.00 TO STA. 102+50.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	0101BR-2	COOK	90	90
STA. 102+75.00 TO STA. 103+25.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

DATE	
BY	
FINAL SURVEY	
NOTE BOOK NO.	
PLOTTED	
TEMP. AT	
AREAS CHECKED	

610

103+25.00 610

610

103+00.00 610

CUT = 1.6 SQ FT  
FILL = 0 SQ FT

610

102+75.00 610

CUT = 2.5 SQ FT  
FILL = 0 SQ FT

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

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