

1-20-2012 LETTING ITEM 014

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. 80 / I-80 AT CENTRAL AVENUE

SECTION: 1415-803HB-R

PROJECT: *IM-080-5(060)152*

BRIDGE SUPERSTRUCTURE REPLACEMENT

COUNTY: COOK

C-91-478-11

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60P17	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

INTERSTATE 80 (MOLINE EXPRESSWAY) :

FUNCTIONAL CLASSIFICATION: INTERSTATE

2010 ADT = 117,900

2020 ADT = 132,900

DESIGN SPEED : 70 M.P.H.

POSTED SPEED : 55 M.P.H.

CH 92 (CENTRAL AVENUE) :

FUNCTIONAL CLASSIFICATION: URBAN COLLECTOR

2010 ADT = 2,500

2020 ADT = 2,700

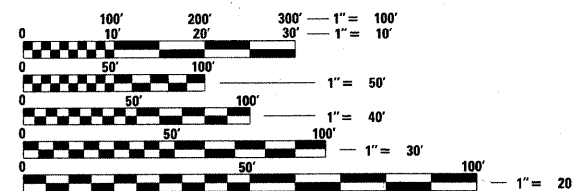
DESIGN SPEED : 45 M.P.H.

POSTED SPEED : 45 M.P.H.

PROPOSED IMPROVEMENT

REMOVAL AND REPLACEMENT OF THE EXISTING DECK AND APPROACH SLABS. REPAIR ABUTMENTS, PIER AND SLOPEWALLS. REMOVAL AND REPLACEMENT OF UNDERPASS LIGHTING AND OTHER RELATED WORK.

PROJECT LOCATED IN THE CITY OF COUNTRY CLUB HILLS

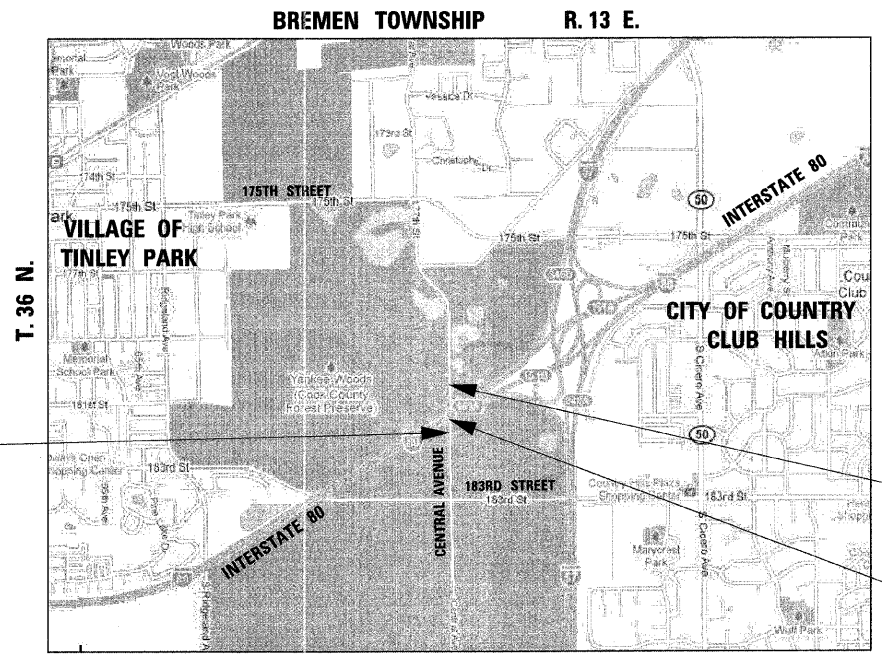


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT ONE - DESIGN
PROJECT MANAGER : ISSAM RAYYAN (847) 705-4178
PROJECT ENGINEER : ROBERT BORO (847) 705-4237

CONTRACT NO. 60P17



PROJECT BEGINS STA. 15 + 00

PROJECT ENDS STA. 20 + 75

S.N. 016-2458

GROSS LENGTH OF PROJECT = 575 FEET = 0.109 MILES
NET LENGTH OF PROJECT = 575 FEET = 0.109 MILES



Birinder S. Sachdeva NOV 17, 2011
BIRINDER S. SACHDEVA, P.E.
EXPIRES: 11-30-2011
Bhadresh N. Shah 11-17-2011
BHADRESH N. SHAH, S.E., P.E.
EXPIRES: 11-30-2012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED *NOVEMBER 18, 20 11*
Diane M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 9 20 11
Scott E. Stitt PE, Ia acting ENGINEER OF DESIGN AND ENVIRONMENT
December 9 20 11
William R. Fagan Ia DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS - PLANNERS - SURVEYORS
211 W. WACKER DRIVE CHICAGO, IL. 60606
TELEPHONE: 312-372-2023

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LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
420001-07	PAVEMENT JOINTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAME AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-06	SHOULDER INLET WITH CURB
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-10	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701400-05	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY / EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701446-03	TWO LANE CLOSURE FREEWAY / EXPRESSWAY
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS

GENERAL NOTES

1. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
3. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
4. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING 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 BASED UPON THE UNIT PRICE.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
7. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
9. THE RESIDENT ENGINEER SHALL CONTACT XXXX XXXXX, THE AREA TRAFFIC FIELD ENGINEER, AT (815) 485-6475 TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
10. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.

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NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 0160P17-shi-gennotes.dgn
 PLOT DATE = 11/17/2011
 PLOT SCALE = 50.0000' / IN.



DESIGNED - S.J.P./K.R.K.	REVISED
DRAWN - B.K.	REVISED -
CHECKED -	REVISED -
DATE - OCTOBER, 2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
CENTRAL AVENUE OVER I-80**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	2
			CONTRACT NO. 60P17	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	DESCRIPTION	UNIT	TOTAL	0014 BRIDGE REPAIR 90% FED. 10% STATE	0021 UNDERPASS LIGHTING 90% FED. 10% STATE
20200100	EARTH EXCAVATION	CU YD	100	100	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	282	282	
20400800	FURNISHED EXCAVATION	CU YD	488	488	
20800150	TRENCH BACKFILL	CU YD	16	16	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,805	2,805	
21400100	GRADING AND SHAPING DITCHES	FOOT	310	310	
25000210	SEEDING, CLASS 2A	ACRE	0.65	0.65	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	59	59	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	59	59	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	3,150	3,150	
28000400	PERIMETER EROSION BARRIER	FOOT	1,980	1,980	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	602	602	
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	171	171	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	82	82	
40600300	AGGREGATE (PRIME COAT)	TON	1.6	1.6	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	43	43	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	10	10	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	70	70	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	56	56	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	629	629	
44000100	PAVEMENT REMOVAL	SQ YD	210	210	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	220	220	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	275	275	
50102400	CONCRETE REMOVAL	CU YD	25.6	25.6	
50104650	SLOPE WALL REMOVAL	SQ YD	516	516	
50104701	REMOVAL OF EXISTING CONCRETE DECK NO. 1	EACH	1	1	
50157300	PROTECTIVE SHIELD	SQ YD	816	816	
50200100	STRUCTURE EXCAVATION	CU YD	225	225	
50300225	CONCRETE STRUCTURES	CU YD	29.8	29.8	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	517	517	
50300280	BRIDGE DECK GROOVING	SQ YD	1,058	1,058	
50300300	PROTECTIVE COAT	SQ YD	1,326	1,326	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	2,560	2,560	
50500505	STUD SHEAR CONNECTORS	EACH	5152	5152	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	117,760	117,760	
50800515	BAR SPLICERS	EACH	92	92	
51100100	SLOPE WALL 4 INCH	SQ YD	530	530	
51500100	NAME PLATES	EACH	1	1	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	16	16	
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	16	16	

* SPECIALTY ITEM

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 PLOT DATE = 11/17/2011
 PLOT SCALE = 50.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- S.J.P./K.R.K.	REVISED	-
DRAWN	- B.K.	REVISED	-
CHECKED	-	REVISED	-
DATE	- OCTOBER, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
CENTRAL AVENUE OVER I-80
 SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P17	

Rev.

SUMMARY OF QUANTITIES

CODE NO.	DESCRIPTION	UNIT	TOTAL	0014 BRIDGE REPAIR 90 % FED. 10 % STATE	0021 UNDERPASS LIGHTING 90 % FED. 10 % STATE
52100520	ANCHOR BOLTS, 1"	EACH	64	64	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	118	118	
55100500	STORM SEWER REMOVAL 12"	FOOT	100	100	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	88	88	
60100945	PIPE DRAINS 12"	FOOT	38	38	
60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4	
60500050	REMOVING CATCH BASINS	EACH	4	4	
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	4	4	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	450	450	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	1,580	1,580	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600	
72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	24	24	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,000	1,000	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1,300	1,300	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	16	16	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	32	32	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30	30	
81100320	CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALVANIZED STEEL	FOOT	449		449
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8		8
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4		4
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,176		2,176
82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4		4
82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4		4
X0315541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1		1
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9		9
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	225	225	
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	210	210	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	30	30	
* X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	600	600	

* SPECIALTY ITEM
 Δ **NON-PARTICIPATING (100% STATE)**

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FINAL SURVEY	
NOTE BOOK	
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 PLOT DATE = 11/17/2011
 PLOT SCALE = 50.0000' / IN.



CHRISTIAN-ROGE & ASSOCIATES, INC.
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 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- S.J.P./K.R.K.	REVISED	
DRAWN	- B.K.	REVISED	
CHECKED		REVISED	
DATE	- OCTOBER, 2011	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
CENTRAL AVENUE OVER I-80

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	4
CONTRACT NO. 60P17				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	DESCRIPTION	UNIT	TOTAL	0014 BRIDGE REPAIR 90% FED. 10% STATE	0021 UNDERPASS LIGHTING 90% FED. 10% STATE			
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	32	32				
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	3,300	3,300				
Z0004552	APPROACH SLAB REMOVAL	SQ YD	250	250				
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1				
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1				
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	207	207				
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	25	25				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52				
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	112	112				

• **30076600 TRAINEES** Hour 1000 1000

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• SPECIALTY ITEM

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CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
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 DRAWN - B.K.
 CHECKED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

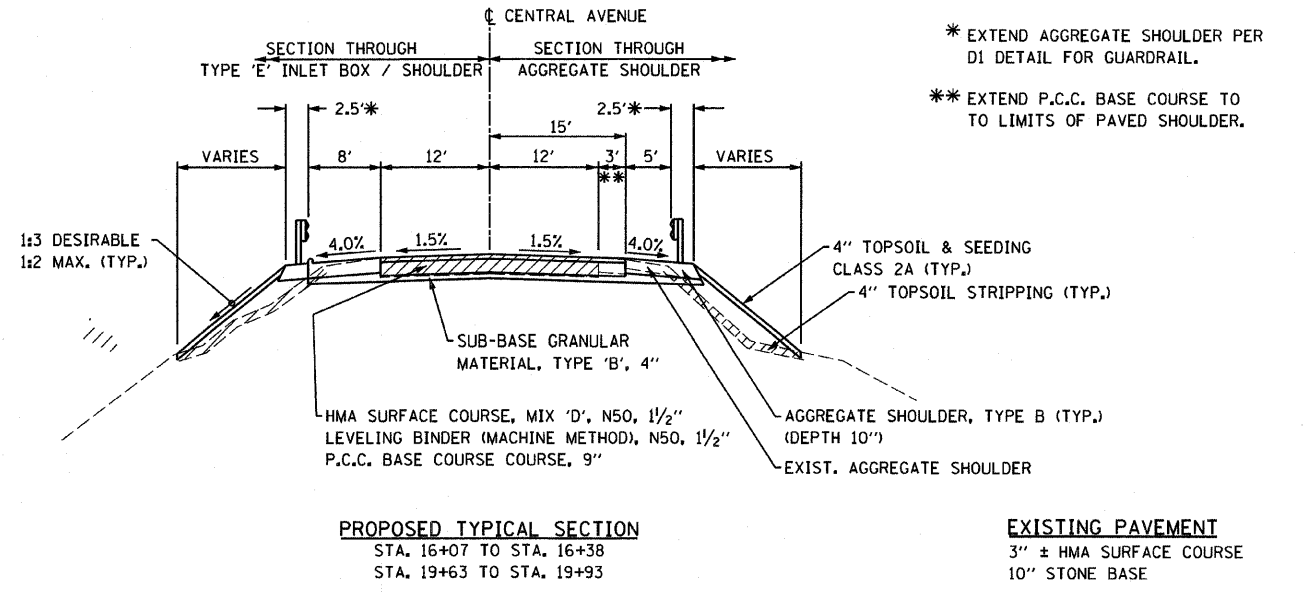
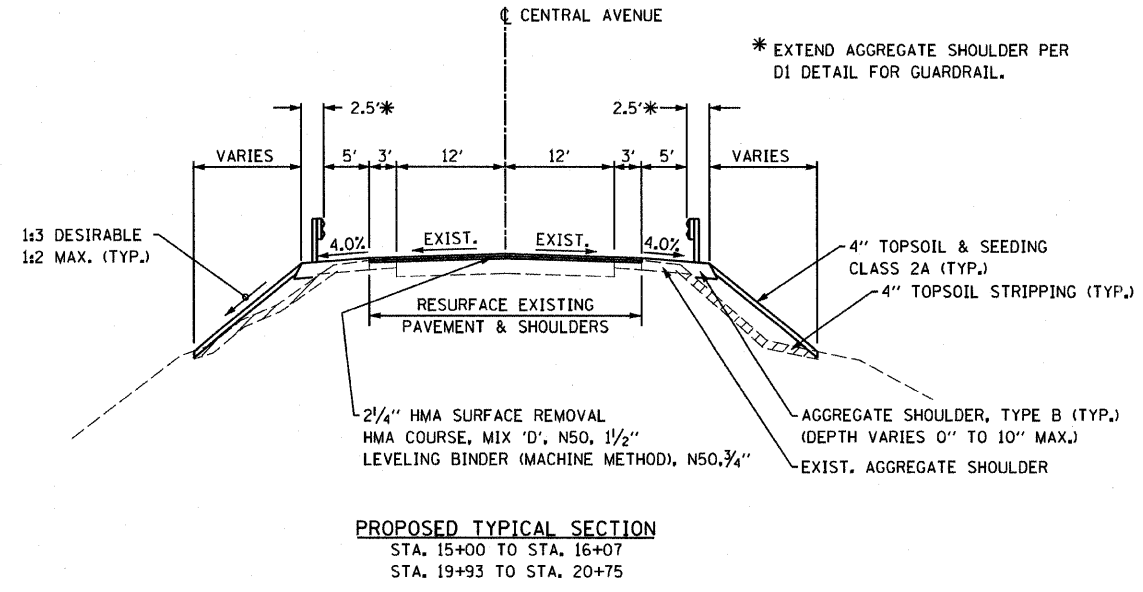
**SUMMARY OF QUANTITIES
 CENTRAL AVENUE OVER I-80**

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P17	

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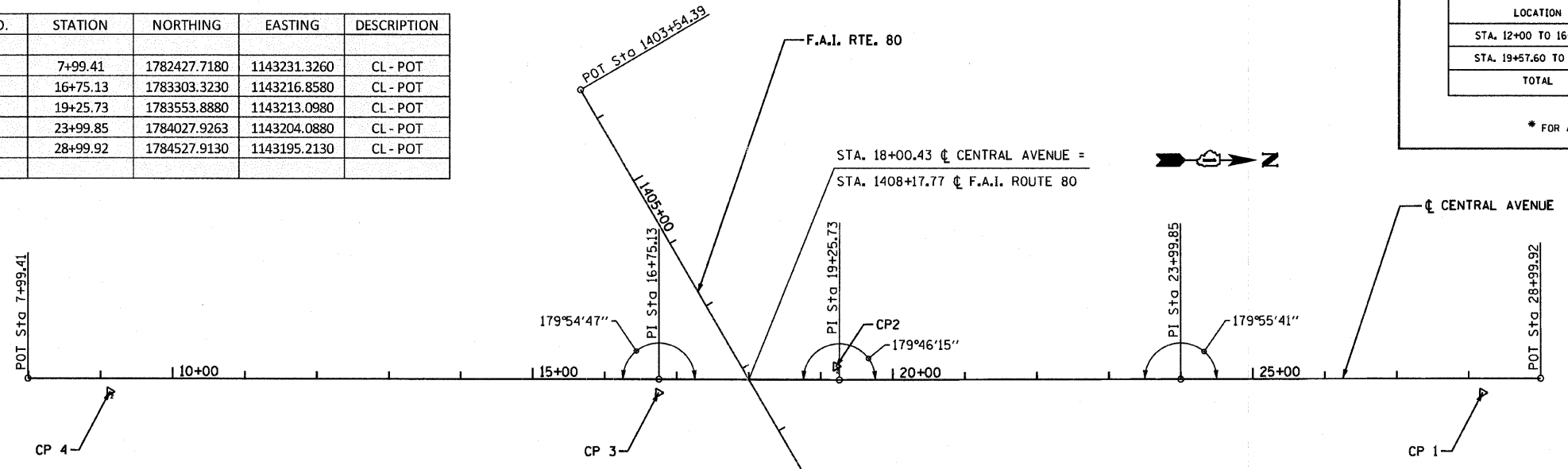
EXISTING PAVEMENT
 3" ± HMA SURFACE COURSE
 10" STONE BASE

ALIGNMENT POINTS

ROADWAY	POINT NO.	STATION	NORTHING	EASTING	DESCRIPTION
CENTRAL AVE.	A1	7+99.41	1782427.7180	1143231.3260	CL - POT
	A2	16+75.13	1783303.3230	1143216.8580	CL - POT
	A3	19+25.73	1783553.8880	1143213.0980	CL - POT
	A4	23+99.85	1784027.9263	1143204.0880	CL - POT
	A5	28+99.92	1784527.9130	1143195.2130	CL - POT

LOCATION	EARTH EXCAVATION *	UNSUITABLE	EMBANKMENT
STA. 12+00 TO 16+44.60	50	130	185
STA. 19+57.60 TO 24+00	50	152	303
TOTAL	100	282	488

* FOR APPROACH SLAB AND PAVEMENT CONSTRUCTION



CONTROL POINTS ON CENTRAL AVENUE

POINT NO.	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
800	28+19.17	20.06	1784447.5320	1143216.7030	CP1 - PK NAIL
801	19+21.05	-18.38	1783548.9360	1143194.7940	CP2 - PK NAIL
802	16+74.47	19.13	1783302.9760	1143236.0010	CP3 - PK NAIL
803	9+12.84	18.74	1782541.4410	1143248.1870	CP4 - PK NAIL

MIXTURE TYPE	% AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE MIX D, N50, 1-1/2" (IL-9.5 mm)	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50, 3/4" - 1/2" (IL-9.5 mm)	4% @ 50 GYR.
HMA PLUG 36" WIDTH (SEE STD 353001)	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 9" (3 LIFTS)	4% @ 50 GYR.

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA, THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

BENCH MARK:
 DISK SET IN CONCRETE 50' EAST OF C CENTRAL AVE. & 31' NORTH OF C 183rd ST.
 ELEV. 696.42

T.B.M.
 SQUARE CUT TOP OF WINGWALL AT STA. 17+65, 20' LT.
 ELEV. 724.94

SUGGESTED STAGING AND MAINTENANCE OF TRAFFIC - I-80

CONSTRUCTION STAGING:

1. INSTALL TEMPORARY CONCRETE BARRIER, REMOVE EXISTING PROTECTIVE SHIELDING AND INSTALL UNDERPASS LIGHTING.
2. OUTSIDE PIERS: PERFORM STRUCTURAL REPAIRS; PLACE CRIBBING AND SHORING; AND REPLACE BEARINGS.
3. MIDDLE PIER: PERFORM STRUCTURAL REPAIR OF CONCRETE.

MAINTENANCE OF TRAFFIC:

1. LANE CLOSURES OF ONE OR TWO LANES ON I-80 SHALL BE DONE UTILIZING STANDARDS 701401 AND 701446 DURING NIGHT-TIME OFF PEAK HOURS. LANE 2 WB I-80 SHALL ONLY BE CLOSED IN CONJUNCTION WITH A WB LANE 1 CLOSURE. THE OUTSIDE LANE OF THE SB I-57 TO WB I-80 SHALL ALSO BE CLOSED DURING ALL WB I-80 LANE CLOSURES. THIS SHALL BE DONE WITH STANDARD 701400 AND 701401.
2. PERFORM ALL WORK BEHIND CONCRETE BARRIER.
3. WESTBOUND: CLOSE WESTBOUND INSIDE LANE AND SHOULDER DURING NIGH-TIME OFF PEAK HOURS.
EASTBOUND: CLOSE INSIDE SHOULDER AND EASTBOUND I-80 TO NORTHBOUND I-57 RAMP TAPER AS SHOWN ON THE PLANS DURING NIGH-TIME OFF PEAK HOURS.

SUGGESTED STAGING AND MAINTENANCE OF TRAFFIC - CENTRAL AVENUE

CONSTRUCTION STAGING:

1. ALL CONSTRUCTION ALONG CENTRAL AVENUE.

MAINTENANCE OF TRAFFIC:

1. DETOUR TRAFFIC ON CENTRAL AVENUE.

TRAFFIC CONTROL GENERAL NOTES

TRAFFIC CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT THE CONSTRUCTION.
2. THE CONTRACTOR SHALL USE WET REFLECTIVE TEMPORARY TAPE, TYPE III FOR ALL TEMPORARY LANE MARKINGS ON ALL PERMANENT PAVEMENT AND ON TEMPORARY CONCRETE BARRIER.
3. THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
4. FLUORESCENT VESTS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT VESTS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
5. EXISTING TRAFFIC CONTROL SIGNS AND MESSAGES THAT ARE IN CONFLICT WITH THE PROPOSED MAINTENANCE OF TRAFFIC SHALL BE TEMPORARILY COVERED OR MODIFIED WITH TEMPORARY OVERLAY AS SHOWN IN PLANS AND AS DIRECTED BY THE ENGINEER.
6. THE RESIDENT ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
7. TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH STANDARD 701901.
8. TYPE III BARRICADES SHALL BE PLACED AT BOTH ENDS OF THE CLOSED PORTION OF CENTRAL AVENUE UNDER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ENOUGH TYPE III BARRICADES TO CROSS THE ENTIRE ROADWAY AS DEPICTED ON THE PLANS. IN ADDITION, TEMPORARY CONCRETE BARRIER SHALL BE PLACED ACROSS THE CENTRAL AVENUE PAVEMENT AND SHOULDERS TO PREVENT VEHICLE ACCESS TO THE BRIDGE.
9. ACCESS TO 177TH STREET /GEORGE BRENNAN HIGHWAY SHALL BE MAINTAINED DURING ALL CONSTRUCTION STAGES. REFER TO DETOUR PLAN FOR ADDITIONAL INFORMATION.

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

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

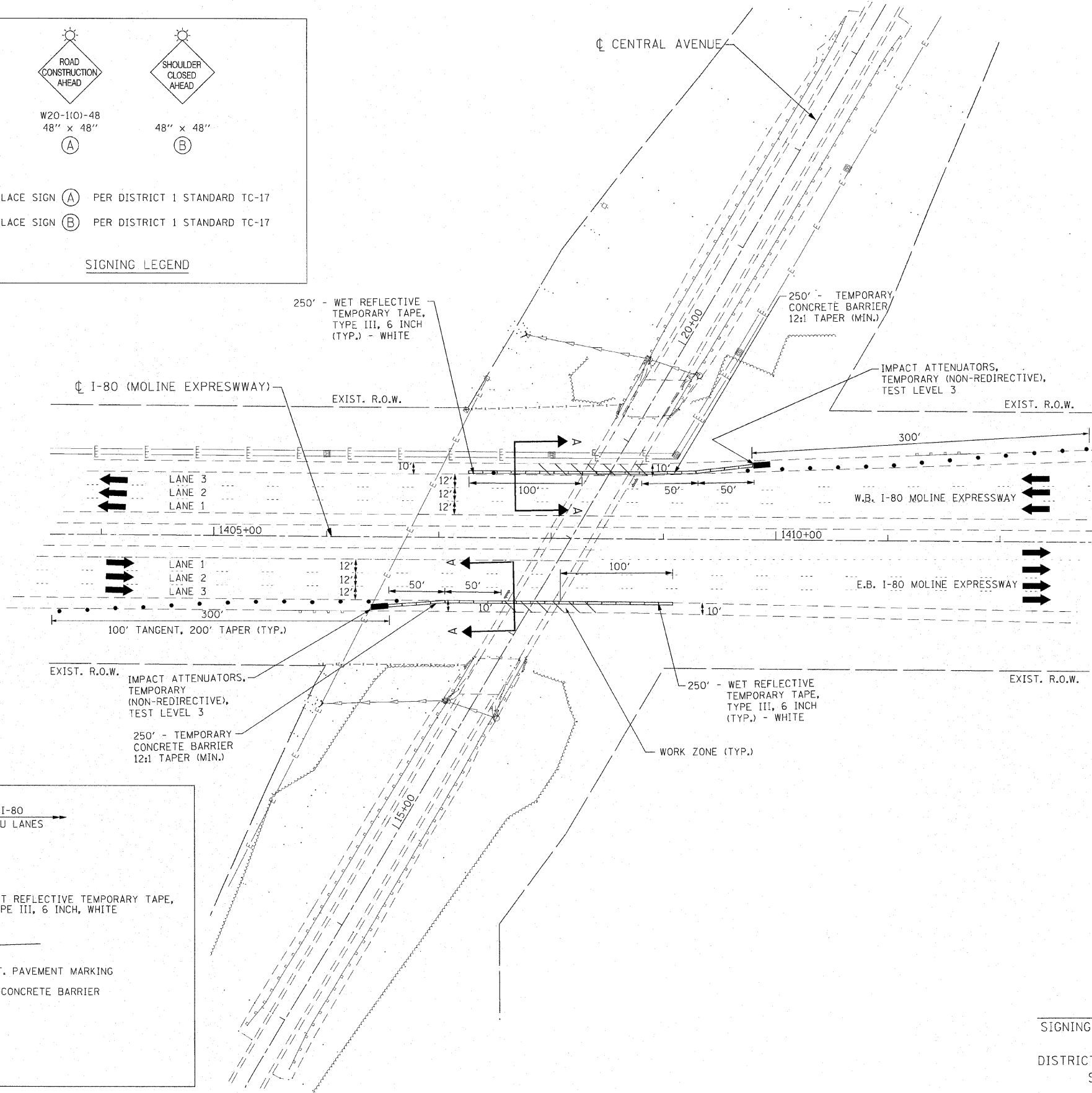
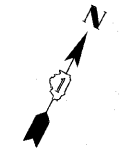
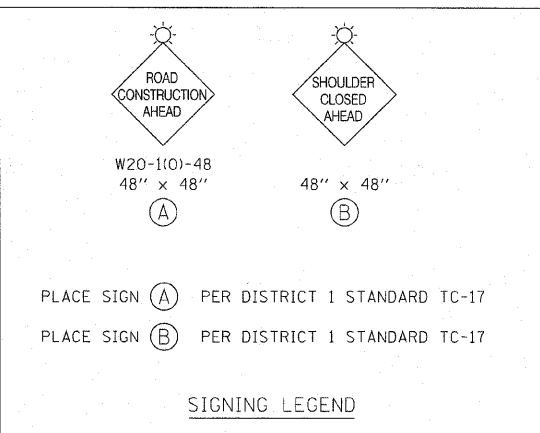
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 PLOT DATE = 11/17/2011
 PLOT SCALE = 50.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - S.J.P./K.R.K.	REVISED
DRAWN - B.K.	REVISED -
CHECKED -	REVISED -
DATE - OCTOBER, 2011	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

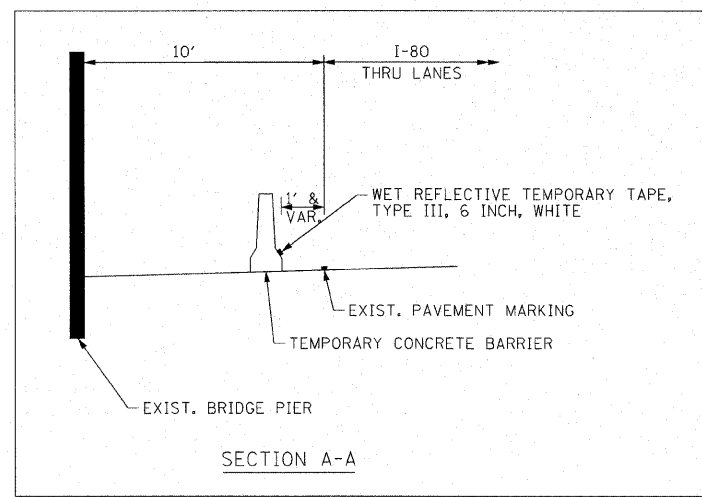
SUGGESTED TRAFFIC CONTROL AND PROTECTION NOTES CENTRAL AVENUE OVER I-80		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		80	1415-803HB-R	COOK	51	7
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60P17						



SEE SIGNING LEGEND (ON SB I-57 TO WB I-80 RAMP) (A) (B)

SEE SIGNING LEGEND (ON WB I-80) (A) (B)

(A) (B)
SEE SIGNING LEGEND



TRAFFIC CONTROL & PROTECTION
SIGNING & BARRICADING TO BE INSTALLED IN ACCORDANCE WITH:
DISTRICT ONE DETAIL - TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

FILE NAME = D:\60P17-sho-sh\closure.dgn
PLOT DATE = 11/17/2011
PLOT SCALE = 50.000 1/1 IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

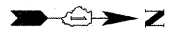
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - K.R.K.	REVISED -
CHECKED -	REVISED -
DATE - OCTOBER, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED TRAFFIC CONTROL AND PROTECTION
I-80 OUTSIDE SHOULDER CLOSURE AT CENTRAL AVENUE

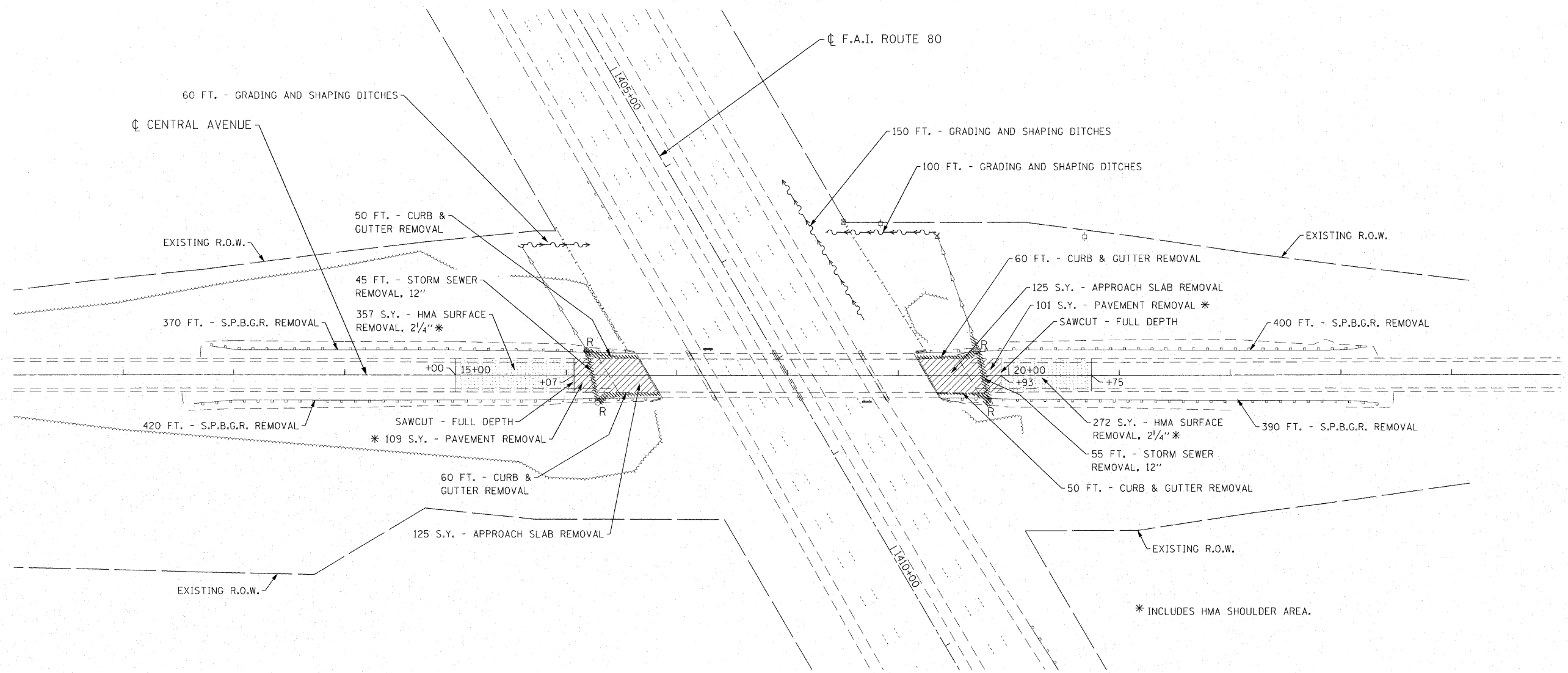
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	9
CONTRACT NO. 60P17			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



* INCLUDES HMA SHOULDER AREA.

FILE NAME = 0168P17-removal.dgn
 PLOT DATE = 11/17/2011
 PLOT SCALE = 50.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - S.J.P./K.R.K.	REVISED
DRAWN - B.K.	REVISED -
CHECKED -	REVISED -
DATE - OCTOBER, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN	
CENTRAL AVENUE OVER I-80	
SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

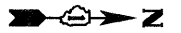
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	10
CONTRACT NO. 60P17			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

NOTES:

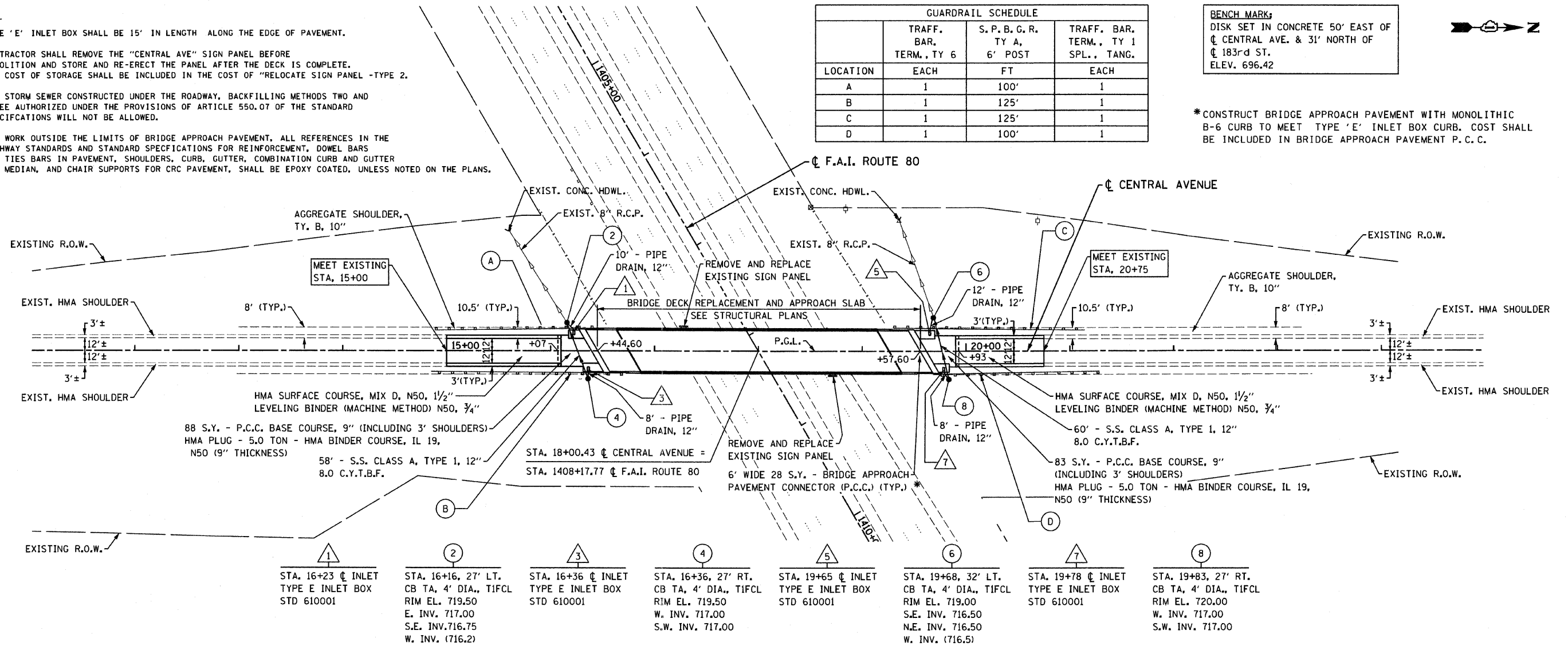
- TYPE 'E' INLET BOX SHALL BE 15' IN LENGTH ALONG THE EDGE OF PAVEMENT.
- CONTRACTOR SHALL REMOVE THE "CENTRAL AVE" SIGN PANEL BEFORE DEMOLITION AND STORE AND RE-ERECT THE PANEL AFTER THE DECK IS COMPLETE. THE COST OF STORAGE SHALL BE INCLUDED IN THE COST OF "RELOCATE SIGN PANEL -TYPE 2.
- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIES BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.

GUARDRAIL SCHEDULE			
	TRAFF. BAR. TERM., TY 6	S. P. B. G. R. TY A, 6' POST	TRAFF. BAR. TERM., TY 1 SPL., TANG.
LOCATION	EACH	FT	EACH
A	1	100'	1
B	1	125'	1
C	1	125'	1
D	1	100'	1

BENCH MARK:
DISK SET IN CONCRETE 50' EAST OF
CENTRAL AVE. & 31' NORTH OF
183rd ST.
ELEV. 696.42



* CONSTRUCT BRIDGE APPROACH PAVEMENT WITH MONOLITHIC B-6 CURB TO MEET TYPE 'E' INLET BOX CURB. COST SHALL BE INCLUDED IN BRIDGE APPROACH PAVEMENT P.C.C.



88 S.Y. - P.C.C. BASE COURSE, 9" (INCLUDING 3' SHOULDERS)
HMA PLUG - 5.0 TON - HMA BINDER COURSE, IL 19, N50 (9" THICKNESS)
58' - S.S. CLASS A, TYPE 1, 12" 8.0 C.Y.T.B.F.

HMA SURFACE COURSE, MIX D, N50, 1 1/2" LEVELING BINDER (MACHINE METHOD) N50, 3/4"
60' - S.S. CLASS A, TYPE 1, 12" 8.0 C.Y.T.B.F.

83 S.Y. - P.C.C. BASE COURSE, 9" (INCLUDING 3' SHOULDERS)
HMA PLUG - 5.0 TON - HMA BINDER COURSE, IL 19, N50 (9" THICKNESS)

STA. 16+23 @ INLET
TYPE E INLET BOX
STD 610001

STA. 16+16, 27' LT.
CB TA, 4' DIA., TIFCL
RIM EL. 719.50
E. INV. 717.00
S.E. INV. 716.75
W. INV. (716.2)

STA. 16+36 @ INLET
TYPE E INLET BOX
STD 610001

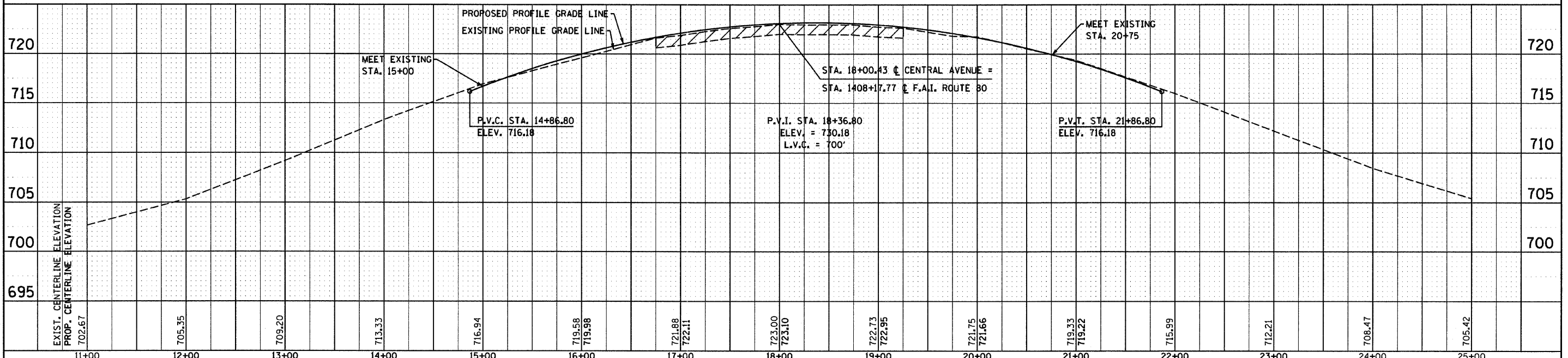
STA. 16+36, 27' RT.
CB TA, 4' DIA., TIFCL
RIM EL. 719.50
W. INV. 717.00
S.W. INV. 717.00

STA. 19+65 @ INLET
TYPE E INLET BOX
STD 610001

STA. 19+68, 32' LT.
CB TA, 4' DIA., TIFCL
RIM EL. 719.00
S.E. INV. 716.50
N.E. INV. 716.50
W. INV. (716.5)

STA. 19+78 @ INLET
TYPE E INLET BOX
STD 610001

STA. 19+83, 27' RT.
CB TA, 4' DIA., TIFCL
RIM EL. 720.00
W. INV. 717.00
S.W. INV. 717.00

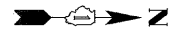


FILE NAME = D180P17-planpr01a.dgn	DESIGNED - S.J.P./K.R.K.	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE CENTRAL AVENUE OVER I-80			F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 11			
PLOT DATE = 12/18/2011	DRAWN - B.K.	REVISED -					SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		CONTRACT NO. 60P17		
PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED -												
	DATE - DECEMBER 9, 2011	REVISED -												

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312) 372-2023 FAX: (312) 372-5274

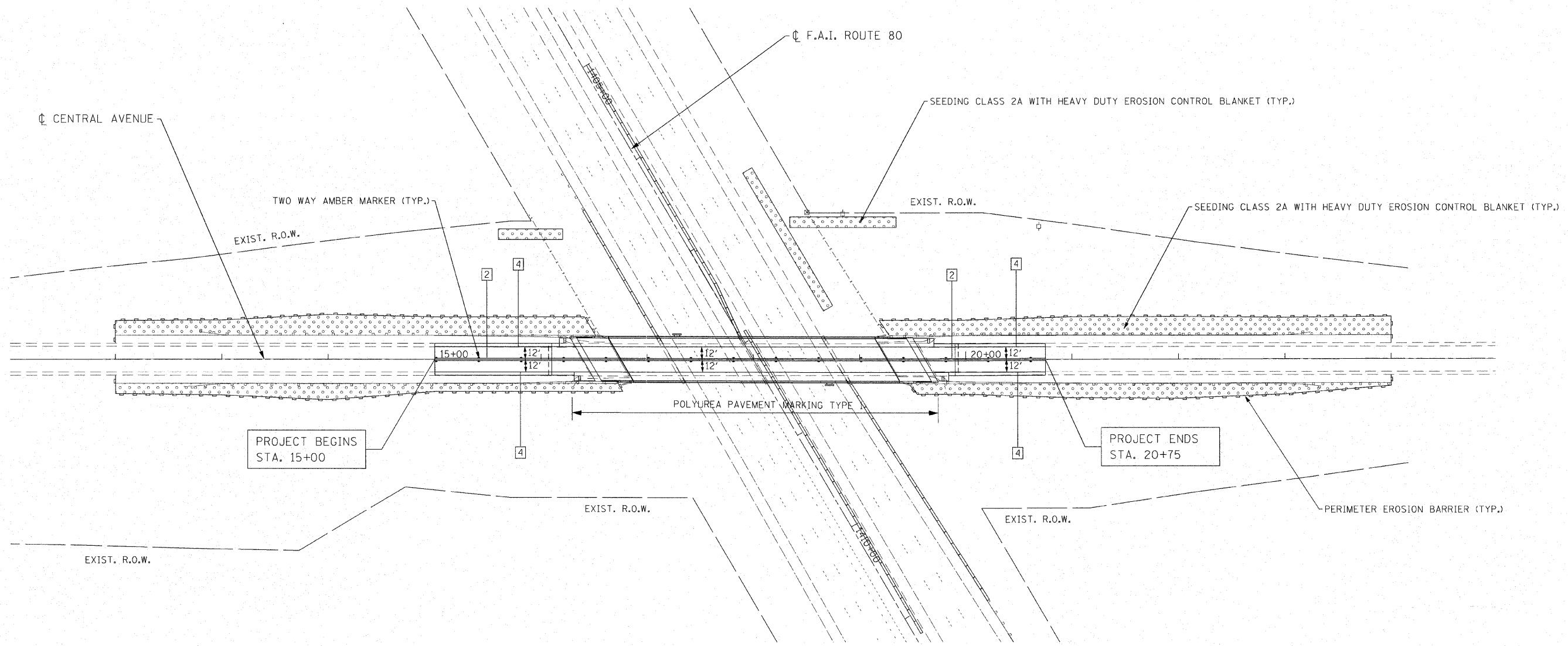
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ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	



LANDSCAPING AND EROSION CONTROL LEGEND

	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER

LEGEND

1 LINE 4" (YELLOW SOLID LINE)	5 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)	9 LINE 12" (YELLOW SOLID LINE)
2 LINE 4" (DOUBLE YELLOW SOLID LINES)	6 LINE 6" (WHITE SOLID LINE)	10 LINE 12" (YELLOW DIAGONAL LINE)
3 LINE 4" (YELLOW - 10' DASH, 30' SKIP)	7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)	11 LINE 12" (WHITE SOLID LINE)
4 LINE 4" (WHITE SOLID LINE)	8 LINE 8" (WHITE SOLID LINE)	12 LINE 12" (WHITE DIAGONAL LINE)
		13 LINE 24" (WHITE STOP BAR)
		14 LETTERS AND SYMBOLS (TYP.)

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME = D16P17-pm-ec-1s.dgn
 PLOT DATE = 11/17/2011
 PLOT SCALE = 50.0000' / 1" IN.

CHRISTIAN-ROGE & ASSOCIATES INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - S.J.P./K.R.K.	REVISED
DRAWN - B.K.	REVISED -
CHECKED -	REVISED -
DATE - OCTOBER, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, EROSION CONTROL AND LANDSCAPING PLAN
CENTRAL AVENUE OVER I-80
 SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P17	

GENERAL NOTES - ROADWAY LIGHTING

1. SPlicing OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPICES BELOW GRADE WILL NOT BE PERMITTED.
2. LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT (847) 221-3079.
4. ALL WORK SHALL CONFORM TO THE LATEST IDOT, IDOT DISTRICT 1 STANDARDS, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, AND THE NATIONAL ELECTRICAL SAFETY CODE.
5. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, UL LISTED AND LABELED.
6. ALL CONDUITS SHALL BE SEALED.
7. ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
8. ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.
9. CIRCUITS SHALL BE TESTED PER SPECIFICATION.
10. THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
11. ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
12. THE EXISTING LIGHTING SYSTEM VOLTAGE IS 240/480 VOLT, 1-PHASE.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING INSTALLATIONS AND DATA PRIOR TO BIDDING.
14. GROUNDING CONDUCTORS SHALL BE CONTINUOUS.

ABBREVIATIONS

A	AMPS
A.G.	ABOVE GRADE
DIA	DIAMETER
C	CONDUCTOR
CDOT	CHICAGO DEPARTMENT OF TRANSPORTATION
GND	GROUND
FT	FEET
HPS	HIGH PRESSURE SODIUM
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
P	PUSHED
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGSC	RIGID GALVANIZED STEEL CONDUIT
STA	STATION
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
W	WIRES

LIGHTING SHEET INDEX

- E-1 LEGEND, SYMBOLS, SCHEDULE OF QUANTITIES & GENERAL NOTES
- E-2 UNDERPASS LIGHTING PLAN

IDOT DISTRICT 1 LIGHTING DETAILS

- E-3 8D-902 SUSPENSION MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS

BILL OF MATERIALS - LIGHTING

DESCRIPTION	UNIT	QUANTITY
CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALVANIZED STEEL	FOOT	449
JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8
JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	FOOT	2,176
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4
UNDERPASS LIGHTING REMOVAL	LS	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9

SYMBOL LIST

DESCRIPTION	PROPOSED	EXISTING TO REMAIN
UNDERPASS LUMINAIRE, 70 WATT HPS, TYPE III DISTRIBUTION	☐ 70	
UNDERPASS LUMINAIRE, 100 WATT HPS, TYPE IV DISTRIBUTION	☐ 100	
JUNCTION BOX	☐ J	☐ J
CONDUIT, ATTACHED TO STRUCTURE	—	
UNIT DUCT 1 1/2" DIA. POLYETHYLENE WITH 3-1/C #2 AND 1-1/C#4 GROUND		---
LIQUID TIGHT FLEXIBLE METAL CONDUIT	~	



LOCATION OF WORK

E-1

FILE NAME = E-1.dgn PLOT DATE = 12/12/2011 PLOT SCALE = 20,000,000 / 1"	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED - L.A.B.</td> <td>REVISED -</td> </tr> <tr> <td>DRAWN -</td> <td>REVISED -</td> </tr> <tr> <td>CHECKED - Y.K./L.A.B.</td> <td>REVISED -</td> </tr> <tr> <td>DATE - OCTOBER, 2011</td> <td>REVISED -</td> </tr> </table>	DESIGNED - L.A.B.	REVISED -	DRAWN -	REVISED -	CHECKED - Y.K./L.A.B.	REVISED -	DATE - OCTOBER, 2011	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LEGEND, SYMBOLS, SCHEDULE OF QUANTITIES & GENERAL NOTES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>F.A.L. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>80</td> <td>MIS-803HB-R</td> <td>COOK</td> <td>51</td> <td>13</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 60P17</td> </tr> </table>	F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	80	MIS-803HB-R	COOK	51	13	CONTRACT NO. 60P17				
DESIGNED - L.A.B.	REVISED -																										
DRAWN -	REVISED -																										
CHECKED - Y.K./L.A.B.	REVISED -																										
DATE - OCTOBER, 2011	REVISED -																										
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																							
80	MIS-803HB-R	COOK	51	13																							
CONTRACT NO. 60P17																											

REMOVAL NOTES

1. THE CONTRACTOR SHALL REMOVE ALL EXISTING UNDERPASS LUMINAIRES AND ASSOCIATED JUNCTION BOXES, CONDUITS AND CABLES FROM THE LUMINAIRES TO THE EXISTING 12"X12"X8" JUNCTION BOXES. 12"X12"X8" JUNCTION BOXES SHALL REMAIN. LUMP SUM PAYMENT FOR REMOVAL SHALL BE INCLUDED IN THE PAY ITEM "REMOVAL OF EXISTING UNDERPASS LUMINAIRES".
2. CONTRACTOR SHALL MAINTAIN LIGHTING CIRCUIT CONTINUITY FOR ROADWAY LIGHTING CIRCUITS THROUGHOUT THE CONSTRUCTION PERIOD.

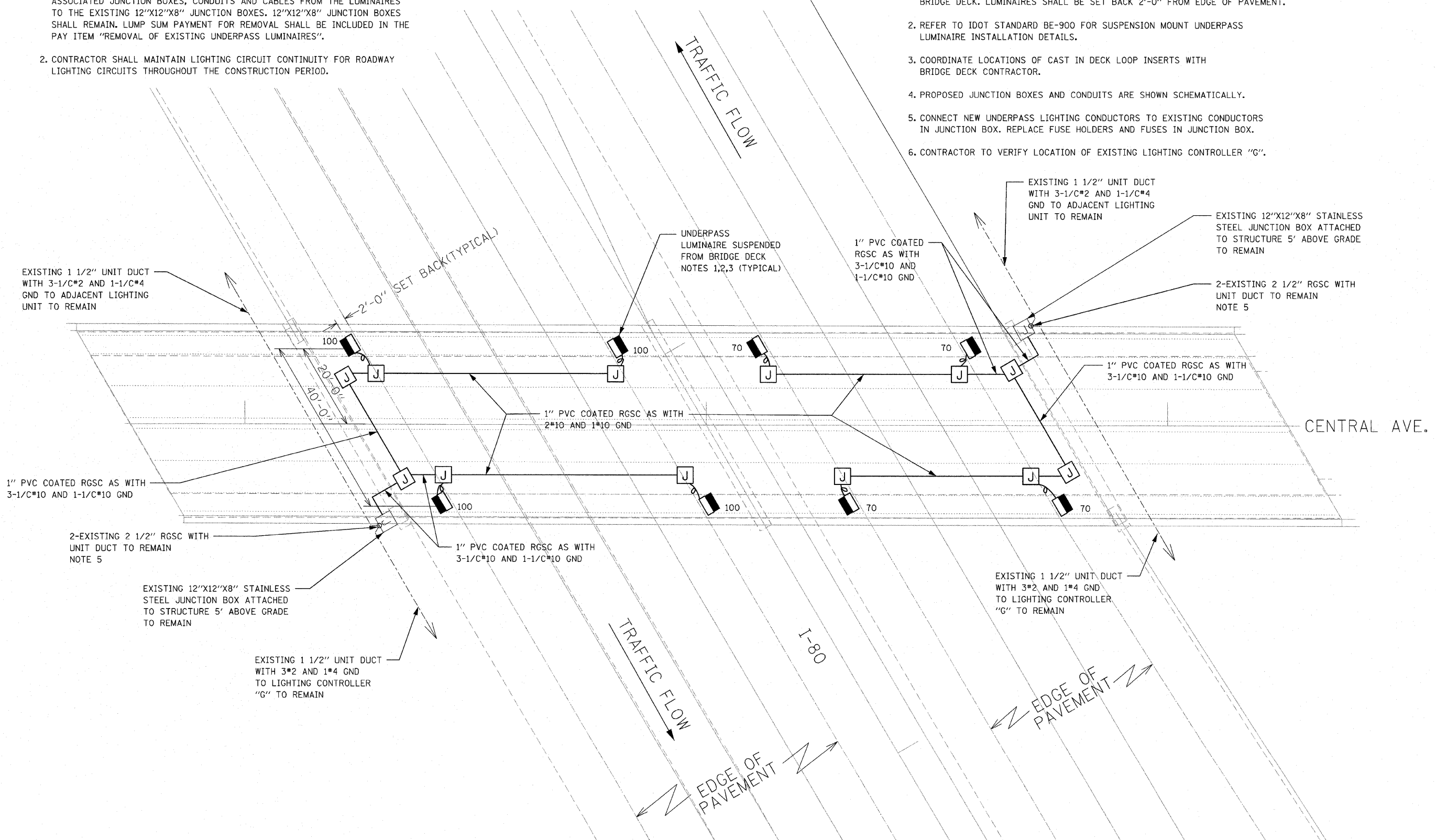
INSTALLATION NOTES

1. PROPOSED LUMINAIRES SHALL BE SUSPENDED FROM UNDERSIDE OF CONCRETE BRIDGE DECK. LUMINAIRES SHALL BE SET BACK 2'-0" FROM EDGE OF PAVEMENT.
2. REFER TO IDOT STANDARD BE-900 FOR SUSPENSION MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS.
3. COORDINATE LOCATIONS OF CAST IN DECK LOOP INSERTS WITH BRIDGE DECK CONTRACTOR.
4. PROPOSED JUNCTION BOXES AND CONDUITS ARE SHOWN SCHEMATICALLY.
5. CONNECT NEW UNDERPASS LIGHTING CONDUCTORS TO EXISTING CONDUCTORS IN JUNCTION BOX. REPLACE FUSE HOLDERS AND FUSES IN JUNCTION BOX.
6. CONTRACTOR TO VERIFY LOCATION OF EXISTING LIGHTING CONTROLLER "G".



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	
PLotted	
DATE	
BY	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	
PLotted	
DATE	
BY	
NO.	
AREAS CHECKED	



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PLOT DATE =#DATE#
PLOT SCALE =#SCALE#

DESIGNED - I.A.B.	REVISED
DRAWN -	REVISED -
CHECKED - Y.K./I.A.B.	REVISED -
DATE - OCTOBER, 2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

UNDERPASS LIGHTING CENTRAL AVENUE OVER I-80			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 14
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 60P17

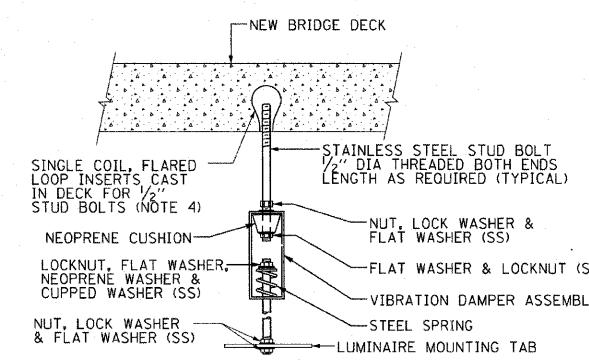
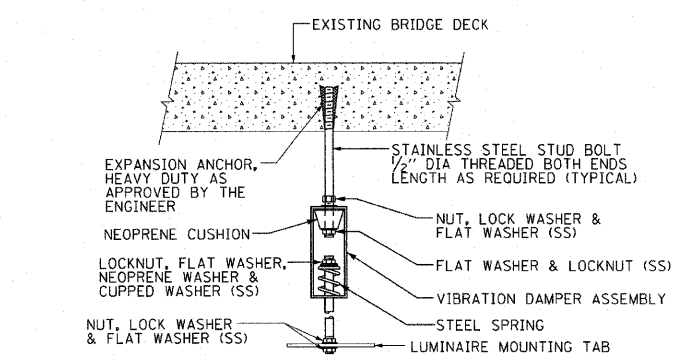
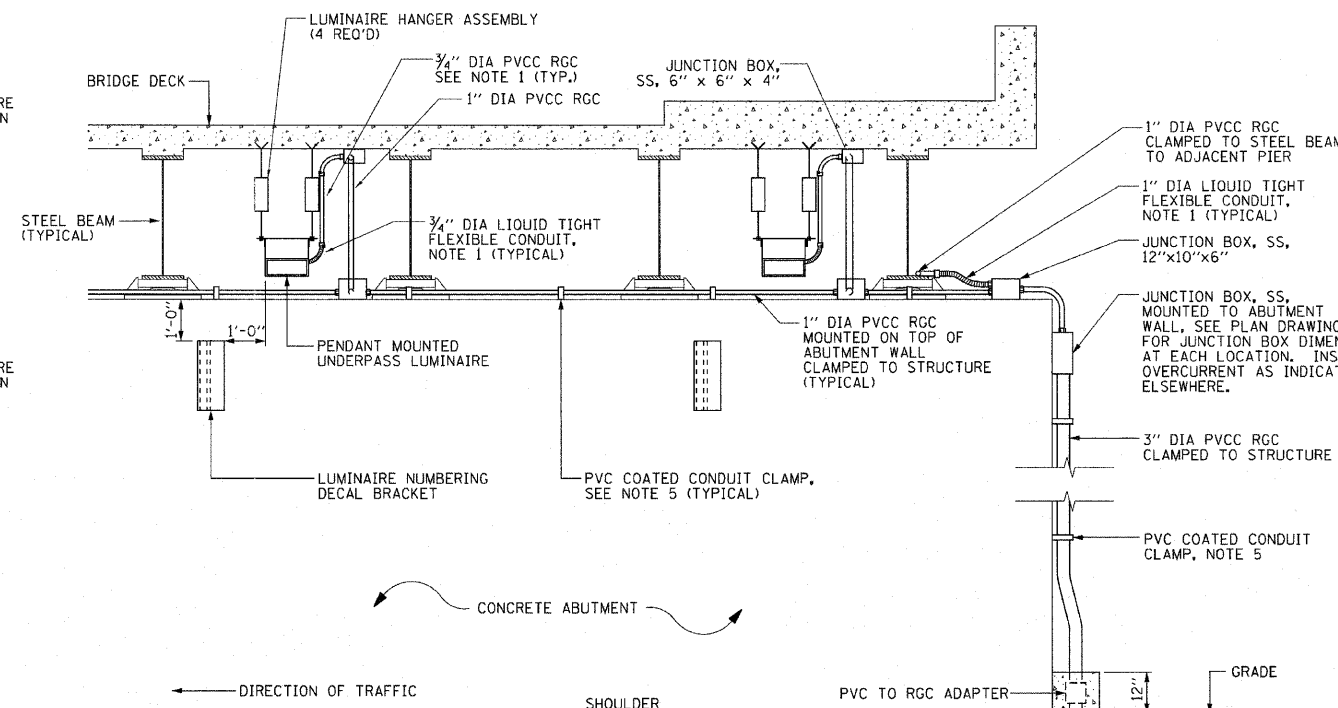
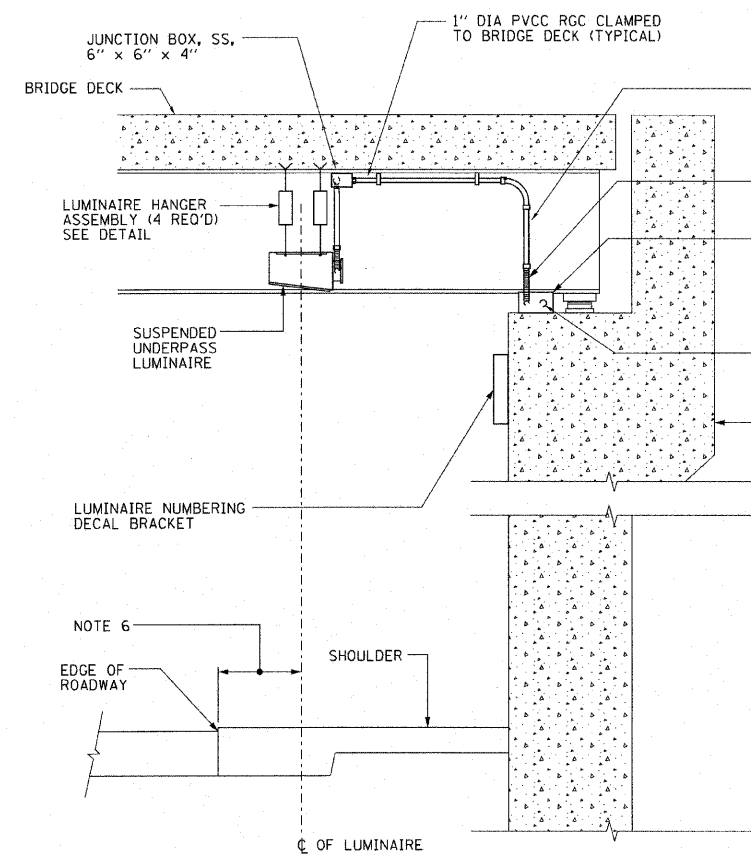
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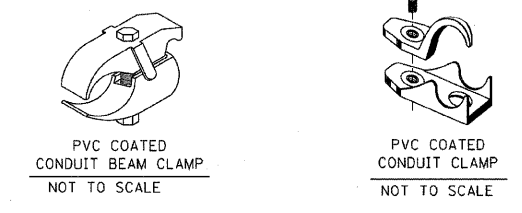
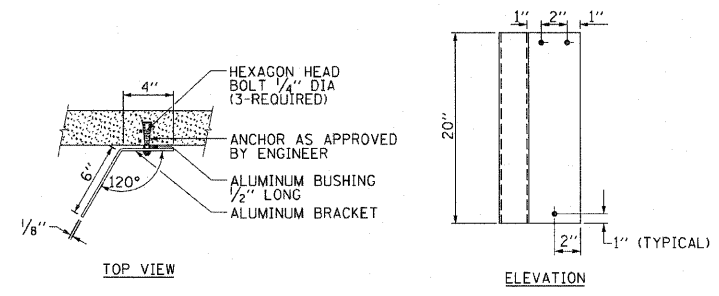
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#PENTBL#

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HR-R	COOK	51	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



- 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 LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDING 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 LUMINAIRES 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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS

SCALE: VERT. DATE: 1/17/2007

DRAWN BY: BE-900

CHECKED BY: BE-900

REVISION DATE: 01-01-2007

PLOT DATE = 1/17/2007
 FILE NAME = c:\projects\adistat\lbe900.dgn
 USER NAME = jbrack

BENCH MARK:

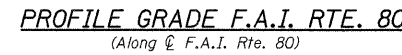
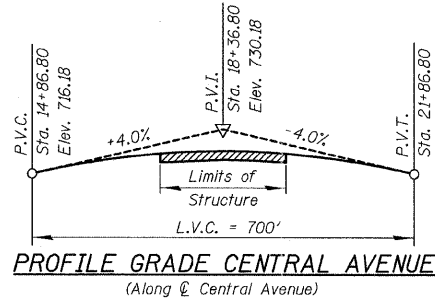
Disk set in concrete 50' east of centerline of Central Ave. & 31' north of centerline of 183rd Street, Elev. 696.42

EXISTING STRUCTURE:

S.N. 016-2458 Central Ave. over F.A.I. Rte 80, Sec. 84-19326-09-65 was built in 1963. The superstructure consists of four spans with lengths of 45'-9", 77'-10", 77'-10" & 47'-1". The reinforced concrete deck is supported by non-composite 36WF150 rolled steel beams. The substructure consists of two open bent, pile-supported concrete abutments with slope walls and three pile-supported concrete piers. The existing deck measures 42'-0" out to out and 253'-0" back to back of abutments. Reconstruction was performed on the structure in 1984 increasing the deck thickness from 7" to 9" with a Plastolized Concrete Overlay. The existing deck is to be removed and replaced.

Traffic will be detoured.

Salvage: none

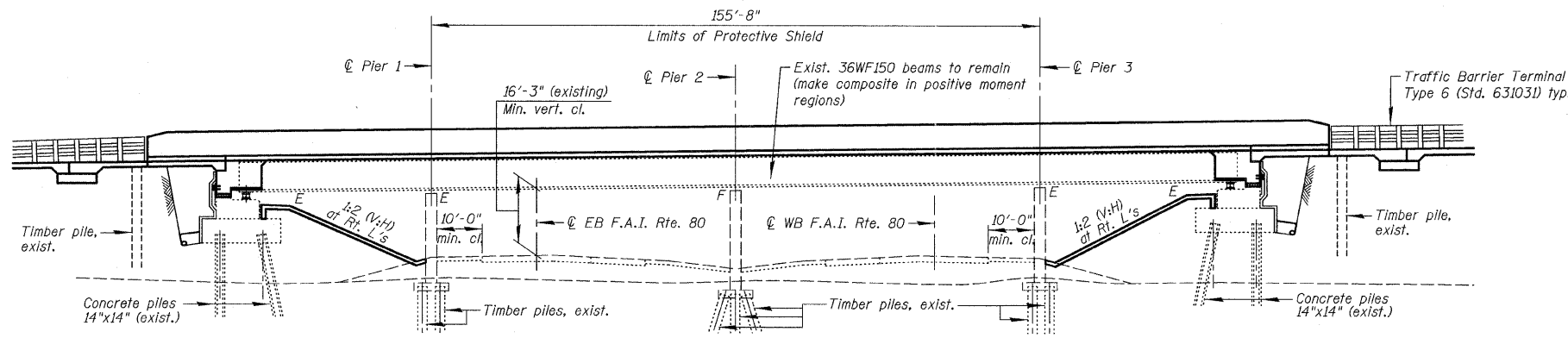


SCOPE OF WORK:

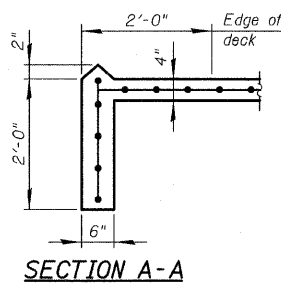
1. Remove and replace the existing deck.
2. Remove rocker bearings & replace with elastomeric bearings with steel extensions.
3. Reconfigure existing abutments to semi-integral configuration.
4. Modify existing wingwall.
5. Remove & replace slopewalls.
6. Repair beam ends & remove end diaphragms.
7. Clean and paint the existing structural steel.
8. Install stud shear connectors
9. Remove and replace approach slabs.
10. Repair abutments & pier.
11. Remove & replace underdeck lighting fixtures and conduit.

INDEX OF SHEETS

- S1 GENERAL PLAN & ELEVATION
- S2 GENERAL NOTES & TOTAL BILL OF MATERIAL
- S3 TOP OF SLAB ELEVATIONS-I
- S4 TOP OF SLAB ELEVATIONS-II
- S5 TOP OF SLAB ELEVATIONS-III
- S6 TOP OF SLAB ELEVATIONS-IV
- S7 TOP OF SOUTH APPROACH SLAB ELEVATIONS
- S8 TOP OF NORTH APPROACH SLAB ELEVATIONS
- S9 DECK PLAN & CROSS SECTION
- S10 SUPERSTRUCTURE DETAILS-I
- S11 SUPERSTRUCTURE DETAILS-II
- S12 BRIDGE APPROACH SLAB DETAILS-I
- S13 BRIDGE APPROACH SLAB DETAILS-II
- S14 FRAMING PLAN
- S15 BEAM END REPAIRS
- S16 BEARING DETAILS-SOUTH & NORTH ABUTMENTS
- S17 BEARING DETAILS-PIERS 1 & 3
- S18 CONCRETE REMOVAL & REPAIR DETAILS FOR SOUTH ABUTMENT
- S19 CONCRETE REMOVAL & REPAIR DETAILS FOR NORTH ABUTMENT
- S20 PIER 1 REPAIRS
- S21 PIER 2 REPAIRS
- S22 PIER 3 REPAIRS
- S23 SLOPE WALL REMOVAL & REPLACEMENT
- S24 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS



ELEVATION



SECTION A-A

STATION 18+00.43
BUILT XX BY
STATE OF ILLINOIS
F.A.I. ROUTE 80
SECTION 84-19326-09-65
LOADING HS-20
STRUCTURE NO. 016-2458

NAME PLATE
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates

DESIGN STRESSES

FIELD UNITS EXISTING STRUCTURE		FIELD UNITS NEW CONSTRUCTION	
f'c = 1,400 psi	f'c = 3,500 psi	f'c = 3,500 psi	f'c = 3,500 psi
f _s = 20,000 psi (Reinforcement)	f _s = 60,000 psi (Reinforcement)	f _s = 60,000 psi (Reinforcement)	f _s = 60,000 psi (Reinforcement)
f _s = 20,000 psi (Structural Steel A-36)	f _s = 36,000 psi (AASHTO M 270, Gr. 36)	f _s = 36,000 psi (AASHTO M 270, Gr. 36)	f _s = 36,000 psi (AASHTO M 270, Gr. 36)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44

Allow 50#/sq. ft. for future wearing surface.

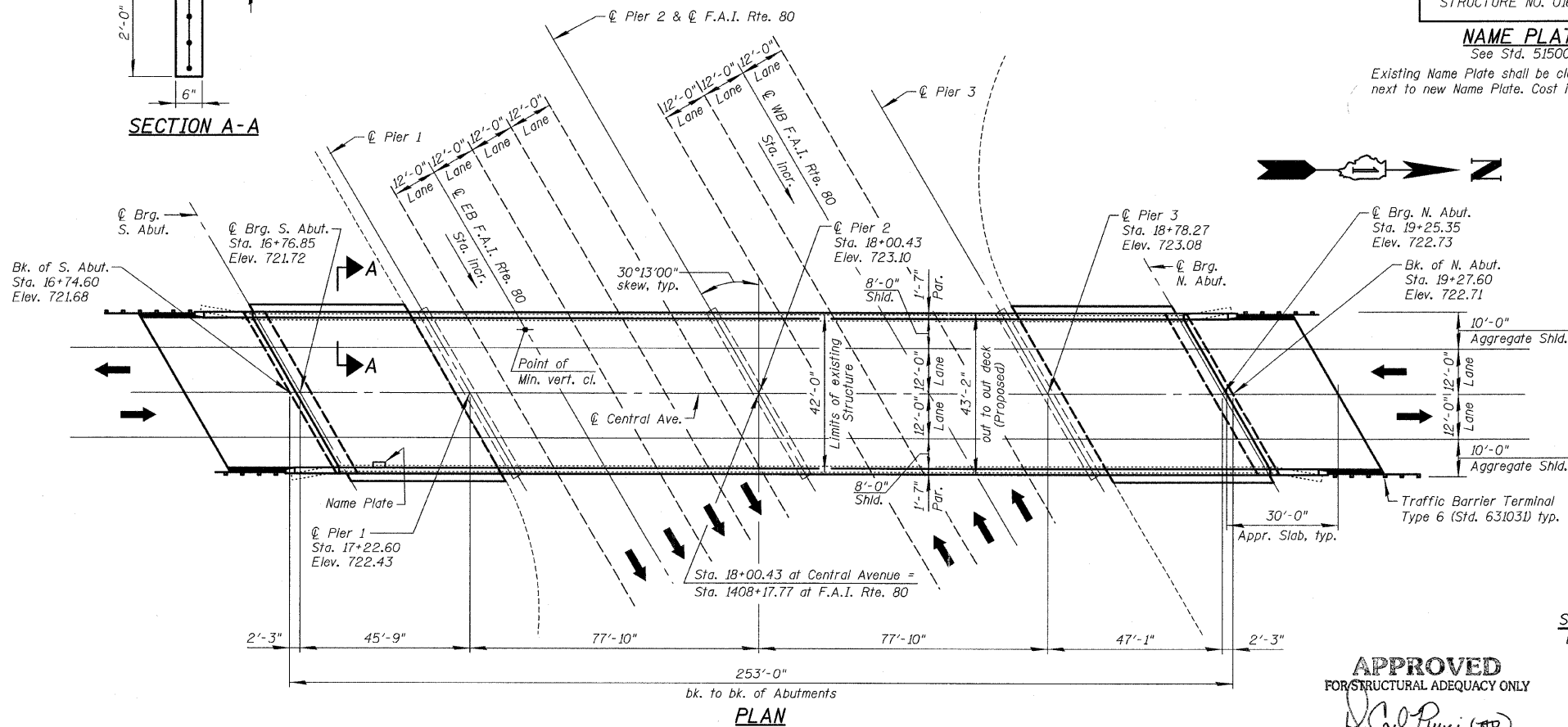
SEISMIC DATA

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



Bhadrash N. Shah
BHADRASH N. SHAH Dec 12, 2011
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-004476
EXPIRES: 11-30-12

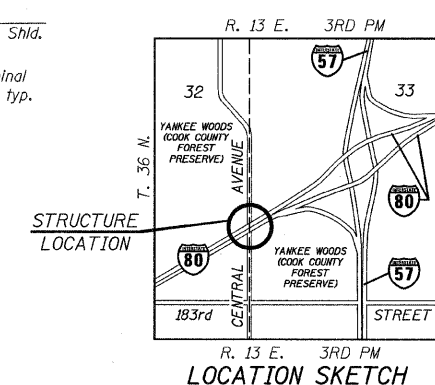
GENERAL PLAN & ELEVATION
CENTRAL AVENUE OVER
F.A.I. RTE. 80
SECTION 1415-803HB-R
COOK COUNTY
STATION 18+00.43
STRUCTURE NO. 016-2458



PLAN

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Carl Pappas
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

FILE NAME = I:\1022909_Central_Ave_Structural\CADD_Sheets\160P17-81-GPE.dgn

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	PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
		DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S1 OF S24 SHEETS

F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 16
				CONTRACT NO. 60P17
[ILLINOIS] FED. AID PROJECT				

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUPER.	SUB.	TOTAL
Concrete Removal	Cu. Yd.	-	25.6	25.6
Slope Wall Removal	Sq. Yd.	-	516	516
** Removal of Existing Concrete Deck	Each	1	-	1
Protective Shield	Sq. Yd.	816	-	816
Structure Excavation	Cu. Yd.	-	225	225
Concrete Structures	Cu. Yd.	-	29.8	29.8
Concrete Superstructure	Cu. Yd.	517	-	517
Bridge Deck Grooving	Sq. Yd.	1,058	-	1,058
Protective Coat	Sq. Yd.	1,326	-	1,326
Furnishing and Erecting Structural Steel	Pound	2,560	-	2,560
Stud Shear Connectors	Each	5,152	-	5,152
Reinforcement Bars, Epoxy Coated	Pound	117,760	-	117,760
Bar Splicers	Each	92	-	92
Slope Wall 4 Inch	Sq. Yd.	-	530	530
Name Plates	Each	1	-	1
Elastomeric Bearing Assembly, Type I	Each	16	-	16
Elastomeric Bearing Assembly, Type II	Each	16	-	16
Anchor Bolts, 1"	Each	-	64	64
Geocomposite Wall Drain	Sq. Yd.	-	88	88
Porous Granular Embankment, Special	Cu. Yd.	-	225	225
Jack and Remove Existing Bearings	Each	32	-	32
Structural Steel Removal	Pound	3,300	-	3,300
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum	1	-	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1	-	1
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	-	207	207
Structural Repair of Concrete (Depth greater than 5 inches)	Sq. Ft.	-	25	25
Pipe Underdrains for Structures 4"	Foot	-	112	112

GENERAL NOTES:

Fasteners shall be AASHTO M 164, Type I Mechanically galvanized bolts. $\frac{3}{4}$ " ϕ bolts, $\frac{3}{16}$ " ϕ holes, unless otherwise noted.

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

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew to uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) or qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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

The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT) magnetic particle (MT) or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.

No field welding is permitted except as specified in the contract documents.

Slip forming of the parapets is not allowed.

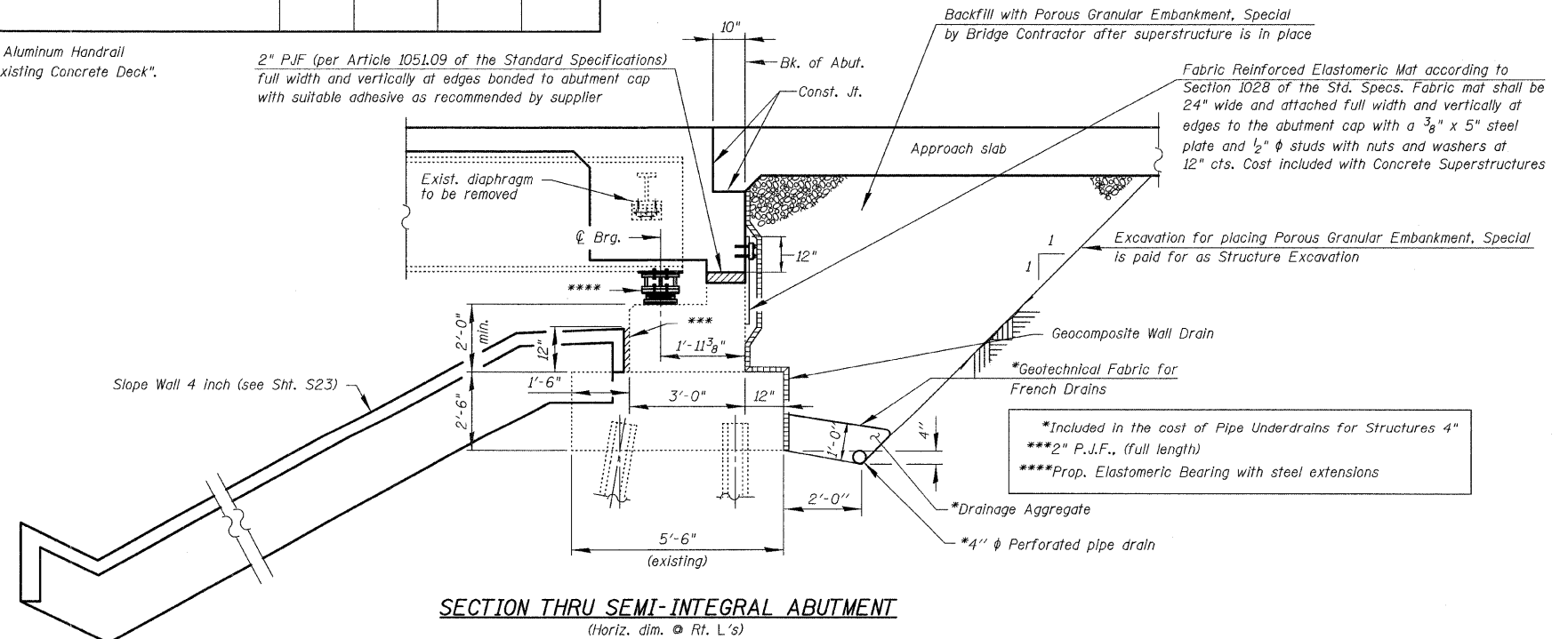
If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking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

Reinforcement bars designated (E) shall be epoxy coated.

Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning-SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. 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 Interstate Green (Munsell No. 7.5G 4/8).

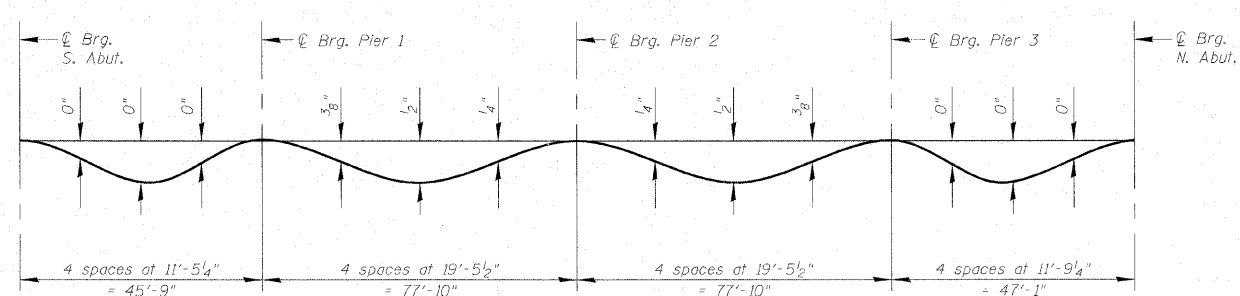
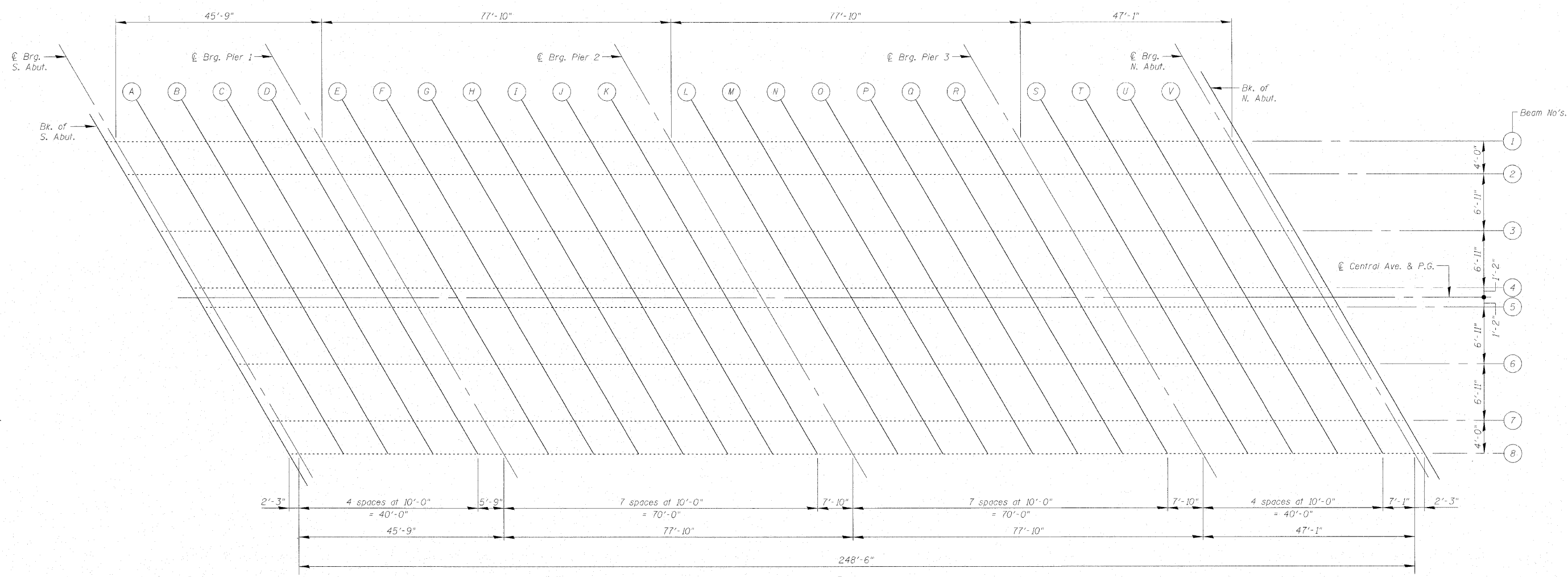
Areas of the existing bridge have permanent protection shield in place. If any part of the existing permanent protective shield system is to be re-used as temporary protective shield, the Contractor shall submit design calculations to the Engineer proving the system meets the requirements of Article 501.03 of the Standard Specifications. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. The cost of removal of all protective shield, temporary and existing permanent protective shield shall be included in the cost Protective Shield.

**Cost of Removal of Existing Aluminum Handrail included with "Removal of Existing Concrete Deck".



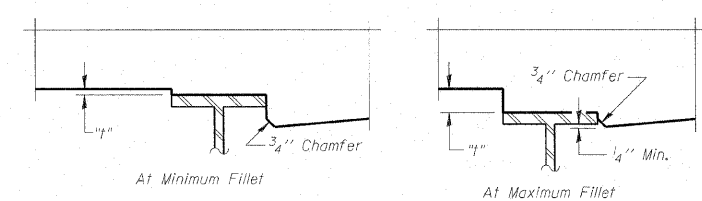
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	PLOT SCALE = 50.000000 ' / IN.	CHECKED - B.N.S.	REVISED -			CONTRACT NO. 60P17				
	PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT				
	DATE - DECEMBER 9, 2011	REVISED -	SHEET NO. S2 OF S24 SHEETS							



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 on Sht's. S4 thru S6.



To determine "f": 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 on Sht's. S4 thru S6, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS

FILE NAME = I:\1023099_Central_Ave_Structural\CADD_Sheets\10160P17-03-deck.dwg

	USER NAME = IDOT	DESIGNED - J.C.N./B.N.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS-I STRUCTURE NO. 016-2458	F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 18
	PLOT SCALE = 50.000000' / IN.	CHECKED - B.N.S.	REVISED -			CONTRACT NO. 60P17				
	PLOT DATE = 11/17/2011	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT				
	DATE - NOVEMBER 17, 2011	REVISOR -	REVISED -			SHEET NO. S3 OF S24 SHEETS				

BEAM 1

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+63.53	-19.00	721.13	721.13
CL. BRG. S. ABUT.	16+65.78	-19.00	721.18	721.18
A	16+75.78	-19.00	721.37	721.37
B	16+85.78	-19.00	721.54	721.55
C	16+95.78	-19.00	721.71	721.71
D	17+05.78	-19.00	721.87	721.86
CL. BRG. PIER 1	17+11.53	-19.00	721.95	721.95
E	17+21.53	-19.00	722.09	722.10
F	17+31.53	-19.00	722.21	722.24
G	17+41.53	-19.00	722.33	722.37
H	17+51.53	-19.00	722.43	722.48
I	17+61.53	-19.00	722.52	722.56
J	17+71.53	-19.00	722.60	722.62
K	17+81.53	-19.00	722.67	722.68
CL. BRG. PIER 2	17+89.36	-19.00	722.72	722.72
L	17+99.36	-19.00	722.77	722.77
M	18+09.36	-19.00	722.80	722.83
N	18+19.36	-19.00	722.83	722.87
O	18+29.36	-19.00	722.84	722.89
P	18+39.36	-19.00	722.85	722.89
Q	18+49.36	-19.00	722.84	722.86
R	18+59.36	-19.00	722.82	722.83
CL. BRG. PIER 3	18+67.20	-19.00	722.79	722.79
S	18+77.20	-19.00	722.75	722.75
T	18+87.20	-19.00	722.70	722.70
U	18+97.20	-19.00	722.64	722.64
V	19+07.20	-19.00	722.56	722.57
CL. BRG. N. ABUT.	19+14.28	-19.00	722.50	722.50
BK. N. ABUT.	19+16.53	-19.00	722.48	722.48

BEAM 2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+65.86	-15.00	721.26	721.26
CL. BRG. S. ABUT.	16+68.11	-15.00	721.30	721.30
A	16+78.11	-15.00	721.49	721.49
B	16+88.11	-15.00	721.67	721.67
C	16+98.11	-15.00	721.83	721.83
D	17+08.11	-15.00	721.98	721.98
CL. BRG. PIER 1	17+13.86	-15.00	722.07	722.07
E	17+23.86	-15.00	722.20	722.21
F	17+33.86	-15.00	722.32	722.36
G	17+43.86	-15.00	722.44	722.48
H	17+53.86	-15.00	722.54	722.58
I	17+63.86	-15.00	722.63	722.66
J	17+73.86	-15.00	722.70	722.72
K	17+83.86	-15.00	722.77	722.78
CL. BRG. PIER 2	17+91.69	-15.00	722.81	722.81
L	18+01.69	-15.00	722.86	722.87
M	18+11.69	-15.00	722.89	722.92
N	18+21.69	-15.00	722.92	722.96
O	18+31.69	-15.00	722.93	722.97
P	18+41.69	-15.00	722.93	722.97
Q	18+51.69	-15.00	722.92	722.94
R	18+61.69	-15.00	722.89	722.90
CL. BRG. PIER 3	18+69.53	-15.00	722.87	722.87
S	18+79.53	-15.00	722.83	722.82
T	18+89.53	-15.00	722.77	722.77
U	18+99.53	-15.00	722.71	722.71
V	19+09.53	-15.00	722.63	722.63
CL. BRG. N. ABUT.	19+16.61	-15.00	722.57	722.57
BK. N. ABUT.	19+18.86	-15.00	722.55	722.55

BEAM 3

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+69.89	-8.08	721.46	721.46
CL. BRG. S. ABUT.	16+72.14	-8.08	721.50	721.50
A	16+82.14	-8.08	721.69	721.69
B	16+92.14	-8.08	721.86	721.86
C	17+02.14	-8.08	722.02	722.02
D	17+12.14	-8.08	722.17	722.16
CL. BRG. PIER 1	17+17.89	-8.08	722.25	722.25
E	17+27.89	-8.08	722.38	722.39
F	17+37.89	-8.08	722.49	722.53
G	17+47.89	-8.08	722.60	722.64
H	17+57.89	-8.08	722.70	722.74
I	17+67.89	-8.08	722.78	722.82
J	17+77.89	-8.08	722.86	722.88
K	17+87.89	-8.08	722.92	722.92
CL. BRG. PIER 2	17+95.72	-8.08	722.96	722.96
L	18+05.72	-8.08	723.00	723.01
M	18+15.72	-8.08	723.03	723.05
N	18+25.72	-8.08	723.05	723.09
O	18+35.72	-8.08	723.05	723.10
P	18+45.72	-8.08	723.05	723.09
Q	18+55.72	-8.08	723.03	723.06
R	18+65.72	-8.08	723.01	723.02
CL. BRG. PIER 3	18+73.56	-8.08	722.98	722.98
S	18+83.56	-8.08	722.93	722.93
T	18+93.56	-8.08	722.87	722.87
U	19+03.56	-8.08	722.80	722.80
V	19+13.56	-8.08	722.72	722.72
CL. BRG. N. ABUT.	19+20.64	-8.08	722.65	722.65
BK. N. ABUT.	19+22.89	-8.08	722.63	722.63

FILE NAME = I:\102909_Central_Ave_Structural\CADD_Sheets\0160P17-04-deck.elev-II.dgn

	USER NAME = IDOT	DESIGNED - J.C.N./B.N.S.	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TOP OF SLAB ELEVATIONS-II STRUCTURE NO. 016-2458</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000000' / IN.	CHECKED - B.N.S.	REVISED -			80	1415-803HB-R	COOK	51	19
	PLOT DATE = 11/17/2011	DRAWN - F.M.	REVISED -							CONTRACT NO. 60P17
		DATE - NOVEMBER 17, 2011	REVISED -							ILLINOIS FED. AID PROJECT
										SHEET NO. S4 OF S24 SHEETS

BEAM 4

CL CENTRAL AVE & P.G.

BEAM 5

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+73.92	-1.17	721.65	721.65
CL. BRG. S. ABUT.	16+76.17	-1.17	721.69	721.69
A	16+86.17	-1.17	721.87	721.87
B	16+96.17	-1.17	722.03	722.03
C	17+06.17	-1.17	722.19	722.19
D	17+16.17	-1.17	722.33	722.33
CL. BRG. PIER 1	17+21.92	-1.17	722.41	722.41
E	17+31.92	-1.17	722.53	722.55
F	17+41.92	-1.17	722.65	722.68
G	17+51.92	-1.17	722.75	722.79
H	17+61.92	-1.17	722.84	722.89
I	17+71.92	-1.17	722.92	722.96
J	17+81.92	-1.17	722.99	723.01
K	17+91.92	-1.17	723.05	723.05
CL. BRG. PIER 2	17+99.75	-1.17	723.08	723.08
L	18+09.75	-1.17	723.12	723.13
M	18+19.75	-1.17	723.15	723.17
N	18+29.75	-1.17	723.16	723.20
O	18+39.75	-1.17	723.16	723.21
P	18+49.75	-1.17	723.15	723.19
Q	18+59.75	-1.17	723.13	723.16
R	18+69.75	-1.17	723.10	723.11
CL. BRG. PIER 3	18+77.59	-1.17	723.07	723.07
S	18+87.59	-1.17	723.01	723.01
T	18+97.59	-1.17	722.95	722.95
U	19+07.59	-1.17	722.88	722.88
V	19+17.59	-1.17	722.79	722.79
CL. BRG. N. ABUT.	19+24.67	-1.17	722.72	722.72
BK. N. ABUT.	19+26.92	-1.17	722.70	722.70

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+74.60	0.00	721.68	721.68
CL. BRG. S. ABUT.	16+76.85	0.00	721.72	721.72
A	16+86.85	0.00	721.90	721.90
B	16+96.85	0.00	722.06	722.06
C	17+06.85	0.00	722.22	722.22
D	17+16.85	0.00	722.36	722.36
CL. BRG. PIER 1	17+22.60	0.00	722.43	722.43
E	17+32.60	0.00	722.56	722.56
F	17+42.60	0.00	722.67	722.67
G	17+52.60	0.00	722.77	722.77
H	17+62.60	0.00	722.87	722.87
I	17+72.60	0.00	722.94	722.94
J	17+82.60	0.00	723.01	723.01
K	17+92.60	0.00	723.07	723.07
CL. BRG. PIER 2	18+00.43	0.00	723.10	723.10
L	18+10.43	0.00	723.14	723.14
M	18+20.43	0.00	723.16	723.16
N	18+30.43	0.00	723.18	723.18
O	18+40.43	0.00	723.18	723.18
P	18+50.43	0.00	723.17	723.17
Q	18+60.43	0.00	723.15	723.15
R	18+70.43	0.00	723.12	723.12
CL. BRG. PIER 3	18+78.27	0.00	723.08	723.08
S	18+88.27	0.00	723.03	723.03
T	18+98.27	0.00	722.96	722.96
U	19+08.27	0.00	722.89	722.89
V	19+18.27	0.00	722.80	722.80
CL. BRG. N. ABUT.	19+25.35	0.00	722.73	722.73
BK. N. ABUT.	19+27.60	0.00	722.71	722.71

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+75.28	1.17	721.67	721.67
CL. BRG. S. ABUT.	16+77.53	1.17	721.71	721.71
A	16+87.53	1.17	721.89	721.89
B	16+97.53	1.17	722.05	722.06
C	17+07.53	1.17	722.21	722.21
D	17+17.53	1.17	722.35	722.35
CL. BRG. PIER 1	17+23.28	1.17	722.43	722.43
E	17+33.28	1.17	722.55	722.56
F	17+43.28	1.17	722.66	722.69
G	17+53.28	1.17	722.76	722.81
H	17+63.28	1.17	722.85	722.90
I	17+73.28	1.17	722.93	722.97
J	17+83.28	1.17	723.00	723.02
K	17+93.28	1.17	723.05	723.06
CL. BRG. PIER 2	18+01.11	1.17	723.09	723.09
L	18+11.11	1.17	723.12	723.13
M	18+21.11	1.17	723.15	723.17
N	18+31.11	1.17	723.16	723.20
O	18+41.11	1.17	723.16	723.21
P	18+51.11	1.17	723.15	723.19
Q	18+61.11	1.17	723.13	723.15
R	18+71.11	1.17	723.09	723.10
CL. BRG. PIER 3	18+78.95	1.17	723.06	723.06
S	18+88.95	1.17	723.01	723.00
T	18+98.95	1.17	722.94	722.94
U	19+08.95	1.17	722.86	722.87
V	19+18.95	1.17	722.78	722.78
CL. BRG. N. ABUT.	19+26.03	1.17	722.71	722.71
BK. N. ABUT.	19+28.28	1.17	722.68	722.68

FILE NAME = I:\02309_Central_Ave_Structural\CADD_Sheets\160P17-05-deck_elev-III.dgn

<p>CHRISTIAN-ROGE & ASSOCIATES, INC.</p>	USER NAME = IDOT	DESIGNED - J.C.N./B.N.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS-III STRUCTURE NO. 016-2458	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000000' / IN.	CHECKED - B.N.S.	REVISED -			80	1415-803HB-R	COOK	51	20
	PLOT DATE = 11/17/2011	DRAWN - F.M.	REVISED -			CONTRACT NO. 60P17				
		DATE - NOVEMBER 17, 2011	REVISED -			[ILLINOIS] FED. AID PROJECT				
SHEET NO. 55 OF 524 SHEETS										

BEAM 6

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+79.31	8.08	721.64	721.64
CL. BRG. S. ABUT.	16+81.56	8.08	721.68	721.68
A	16+91.56	8.08	721.85	721.85
B	17+01.56	8.08	722.01	722.01
C	17+11.56	8.08	722.16	722.16
D	17+21.56	8.08	722.29	722.29
CL. BRG. PIER 1	17+27.31	8.08	722.37	722.37
E	17+37.31	8.08	722.49	722.50
F	17+47.31	8.08	722.60	722.63
G	17+57.31	8.08	722.69	722.74
H	17+67.31	8.08	722.78	722.82
I	17+77.31	8.08	722.85	722.89
J	17+87.31	8.08	722.91	722.93
K	17+97.31	8.08	722.96	722.97
CL. BRG. PIER 2	18+05.14	8.08	723.00	723.00
L	18+15.14	8.08	723.03	723.03
M	18+25.14	8.08	723.05	723.07
N	18+35.14	8.08	723.05	723.09
O	18+45.14	8.08	723.05	723.09
P	18+55.14	8.08	723.03	723.07
Q	18+65.14	8.08	723.01	723.03
R	18+75.14	8.08	722.97	722.98
CL. BRG. PIER 3	18+82.98	8.08	722.93	722.93
S	18+92.98	8.08	722.87	722.87
T	19+02.98	8.08	722.80	722.81
U	19+12.98	8.08	722.72	722.73
V	19+22.98	8.08	722.63	722.63
CL. BRG. N. ABUT.	19+30.06	8.08	722.56	722.56
BK. N. ABUT.	19+32.31	8.08	722.53	722.53

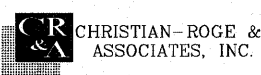
BEAM 7

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+83.34	15.00	721.58	721.58
CL. BRG. S. ABUT.	16+85.59	15.00	721.62	721.62
A	16+95.59	15.00	721.79	721.79
B	17+05.59	15.00	721.95	721.95
C	17+15.59	15.00	722.09	722.09
D	17+25.59	15.00	722.22	722.22
CL. BRG. PIER 1	17+31.34	15.00	722.29	722.29
E	17+41.34	15.00	722.41	722.42
F	17+51.34	15.00	722.51	722.54
G	17+61.34	15.00	722.60	722.65
H	17+71.34	15.00	722.69	722.73
I	17+81.34	15.00	722.75	722.79
J	17+91.34	15.00	722.81	722.83
K	18+01.34	15.00	722.86	722.86
CL. BRG. PIER 2	18+09.17	15.00	722.89	722.89
L	18+19.17	15.00	722.91	722.92
M	18+29.17	15.00	722.93	722.95
N	18+39.17	15.00	722.93	722.97
O	18+49.17	15.00	722.92	722.97
P	18+59.17	15.00	722.90	722.94
Q	18+69.17	15.00	722.87	722.90
R	18+79.17	15.00	722.83	722.84
CL. BRG. PIER 3	18+87.01	15.00	722.79	722.79
S	18+97.01	15.00	722.72	722.72
T	19+07.01	15.00	722.65	722.65
U	19+17.01	15.00	722.56	722.57
V	19+27.01	15.00	722.47	722.47
CL. BRG. N. ABUT.	19+34.09	15.00	722.39	722.39
BK. N. ABUT.	19+36.34	15.00	722.36	722.36

BEAM 8

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. S. ABUT.	16+85.67	19.00	721.54	721.54
CL. BRG. S. ABUT.	16+87.92	19.00	721.58	721.58
A	16+97.92	19.00	721.74	721.75
B	17+07.92	19.00	721.90	721.90
C	17+17.92	19.00	722.04	722.04
D	17+27.92	19.00	722.17	722.17
CL. BRG. PIER 1	17+33.67	19.00	722.24	722.24
E	17+43.67	19.00	722.35	722.36
F	17+53.67	19.00	722.45	722.48
G	17+63.67	19.00	722.54	722.58
H	17+73.67	19.00	722.62	722.66
I	17+83.67	19.00	722.69	722.72
J	17+93.67	19.00	722.74	722.76
K	18+03.67	19.00	722.78	722.79
CL. BRG. PIER 2	18+11.50	19.00	722.81	722.81
L	18+21.50	19.00	722.83	722.84
M	18+31.50	19.00	722.85	722.87
N	18+41.50	19.00	722.85	722.88
O	18+51.50	19.00	722.83	722.88
P	18+61.50	19.00	722.81	722.85
Q	18+71.50	19.00	722.78	722.80
R	18+81.50	19.00	722.73	722.74
CL. BRG. PIER 3	18+89.34	19.00	722.69	722.69
S	18+99.34	19.00	722.62	722.62
T	19+09.34	19.00	722.55	722.55
U	19+19.34	19.00	722.46	722.46
V	19+29.34	19.00	722.36	722.36
CL. BRG. N. ABUT.	19+36.42	19.00	722.28	722.28
BK. N. ABUT.	19+38.67	19.00	722.25	722.25

FILE NAME = I:\102309_Central_Ave_Structural\CADD Sheets\160P17-06-deck-elev-IV.dgn



USER NAME = IDOT
 PLOT SCALE = 50,000/1000' / IN.
 PLOT DATE = 11/17/2011

DESIGNED - J.C.N./B.N.S.
 CHECKED - B.N.S.
 DRAWN - F.M.
 DATE - NOVEMBER 17, 2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS-IV
 STRUCTURE NO. 016-2458**

SHEET NO. 56 OF 524 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	21
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF SOUTH APPROACH PAVEMENT	16+33.91	-20.00	720.47
A1	16+43.91	-20.00	720.70
A2	16+53.91	-20.00	720.91
N. END OF SOUTH APPROACH PAVEMENT	16+63.91	-20.00	721.12

WEST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF SOUTH APPROACH PAVEMENT	16+38.57	-12.00	720.75
A1	16+48.57	-12.00	720.97
A2	16+58.57	-12.00	721.18
N. END OF SOUTH APPROACH PAVEMENT	16+68.57	-12.00	721.38

☉ CENTRAL AVE. & P.G.

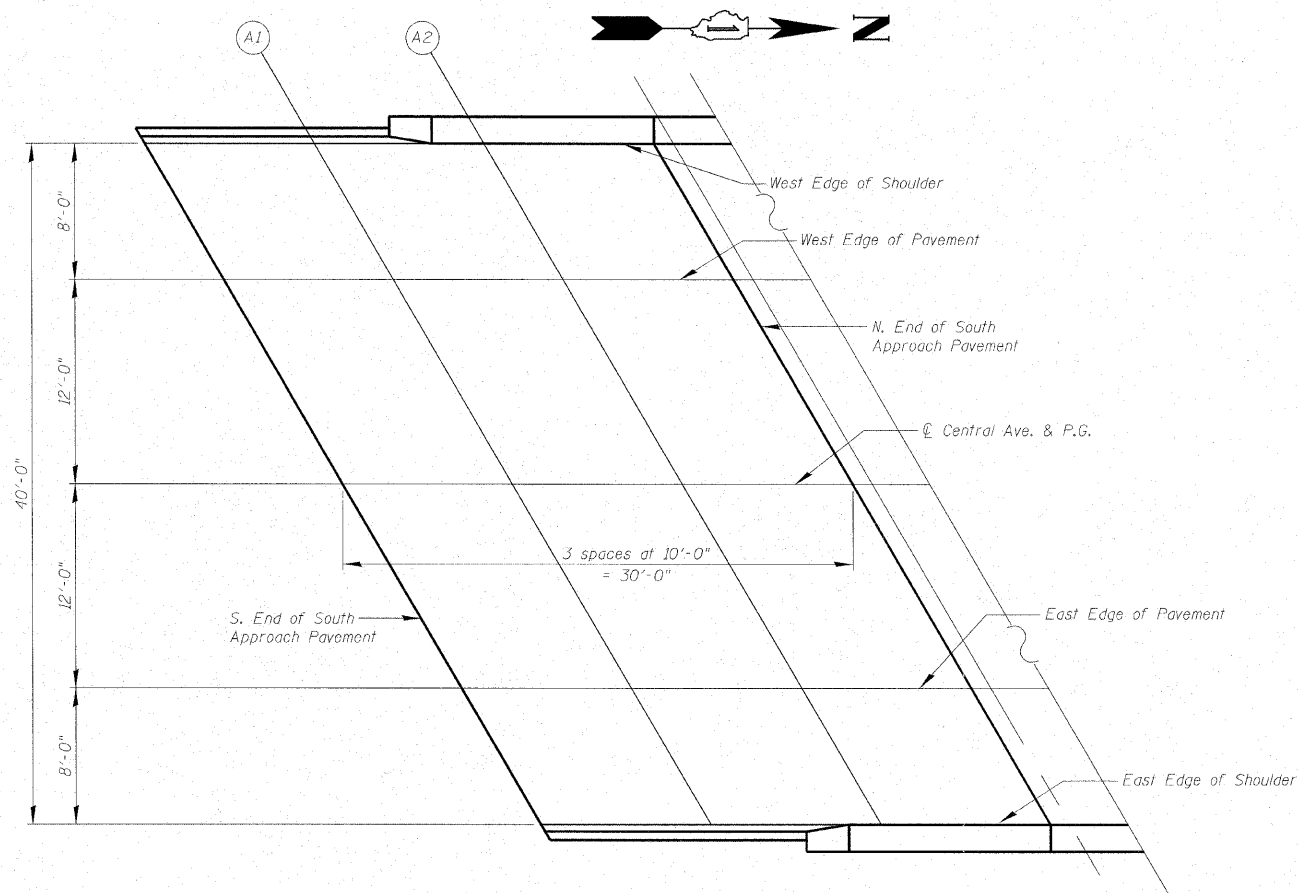
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF SOUTH APPROACH PAVEMENT	16+45.56	0.00	721.09
A1	16+55.56	0.00	721.30
A2	16+65.56	0.00	721.50
N. END OF SOUTH APPROACH PAVEMENT	16+75.56	0.00	721.69

EAST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF SOUTH APPROACH PAVEMENT	16+52.55	12.00	721.05
A1	16+62.55	12.00	721.26
A2	16+72.55	12.00	721.45
N. END OF SOUTH APPROACH PAVEMENT	16+82.55	12.00	721.63

EAST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF SOUTH APPROACH PAVEMENT	16+57.21	20.00	720.98
A1	16+67.21	20.00	721.18
A2	16.77.21	20.00	721.37
N. END OF SOUTH APPROACH PAVEMENT	16+87.21	20.00	721.55



PLAN
South Approach

FILE NAME = I:\102509_Central_Ave\Structural\CADD_Sheets\160017-07-south-approach-slab.elev.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME = IDDT
 PLOT SCALE = 50.000000' / IN.
 PLOT DATE = 11/17/2011

DESIGNED - J.C.N./B.N.S.
 CHECKED - B.N.S.
 DRAWN - F.M.
 DATE - NOVEMBER 17, 2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 016-2458**

SHEET NO. 57 OF 524 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	22
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF NORTH APPROACH PAVEMENT	19+14.99	-20.00	722.48
A3	19+24.99	-20.00	722.38
A4	19+34.99	-20.00	722.27
N. END OF NORTH APPROACH PAVEMENT	19+44.99	-20.00	722.16

WEST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF NORTH APPROACH PAVEMENT	19+19.65	-12.00	722.60
A3	19+29.65	-12.00	722.50
A4	19+39.65	-12.00	722.39
N. END OF NORTH APPROACH PAVEMENT	19+49.65	-12.00	722.26

☐ CENTRAL AVE. & P.G.

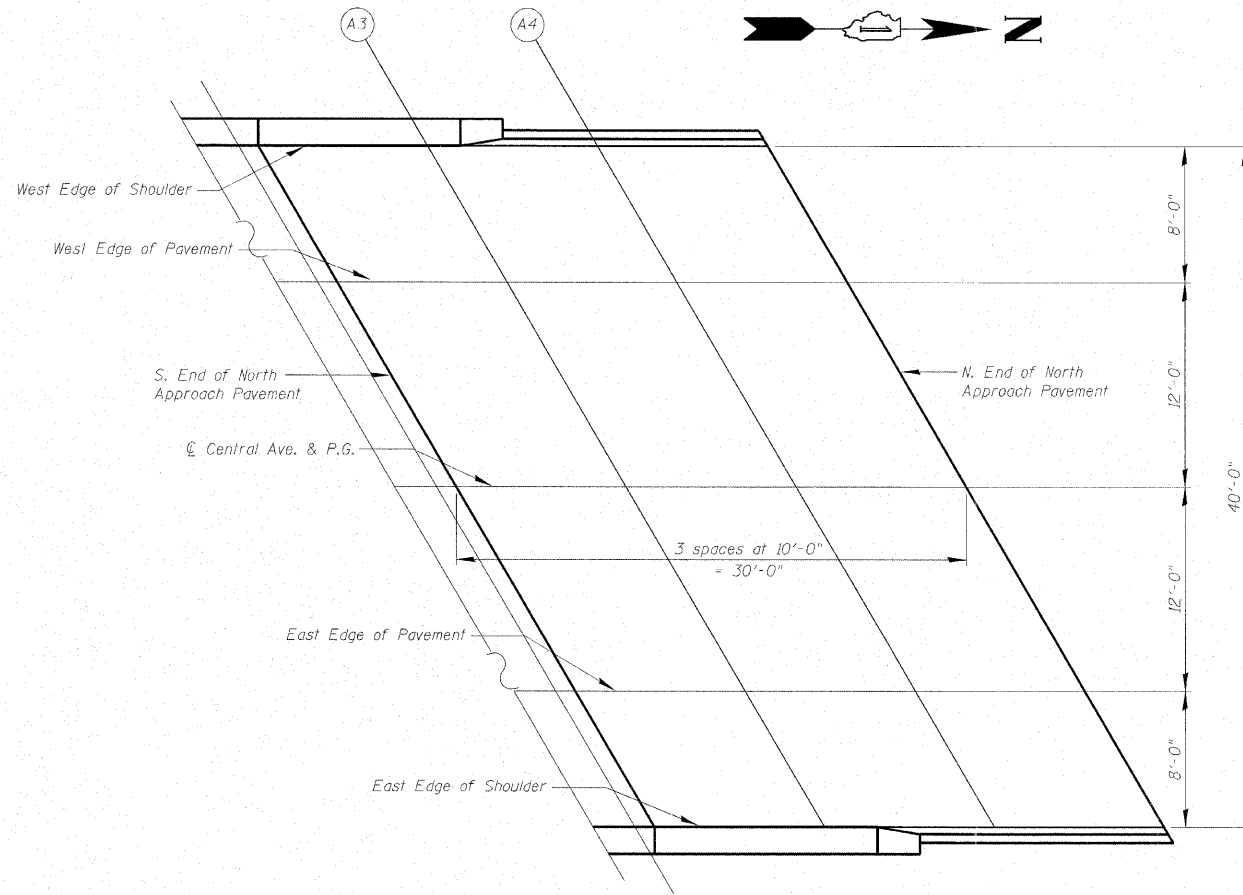
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF NORTH APPROACH PAVEMENT	19+26.64	-0.00	722.72
A3	19+36.64	-0.00	722.61
A4	19+46.64	-0.00	722.49
N. END OF NORTH APPROACH PAVEMENT	19+56.64	-0.00	722.36

EAST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF NORTH APPROACH PAVEMENT	19+33.63	12.00	722.46
A3	19+43.63	12.00	722.34
A4	19+53.63	12.00	722.21
N. END OF NORTH APPROACH PAVEMENT	19+63.63	12.00	722.07

EAST EDGE OF SHOULDER

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
S. END OF NORTH APPROACH PAVEMENT	19+38.29	20.00	722.24
A3	19+48.29	20.00	722.12
A4	19+58.29	20.00	721.98
N. END OF NORTH APPROACH PAVEMENT	19+68.29	20.00	721.84

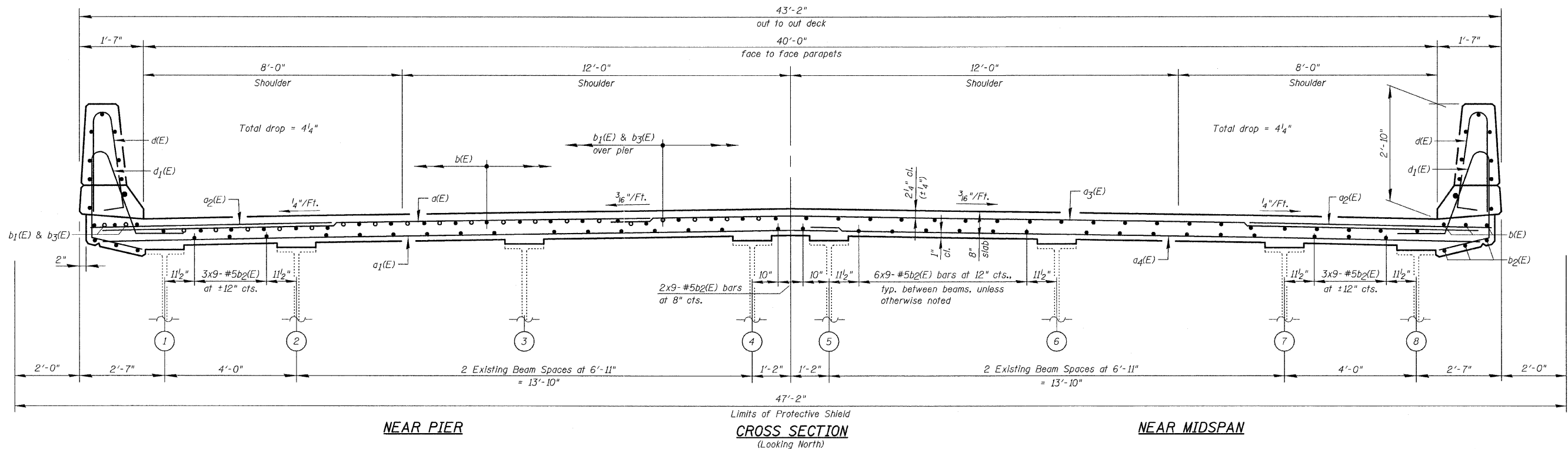
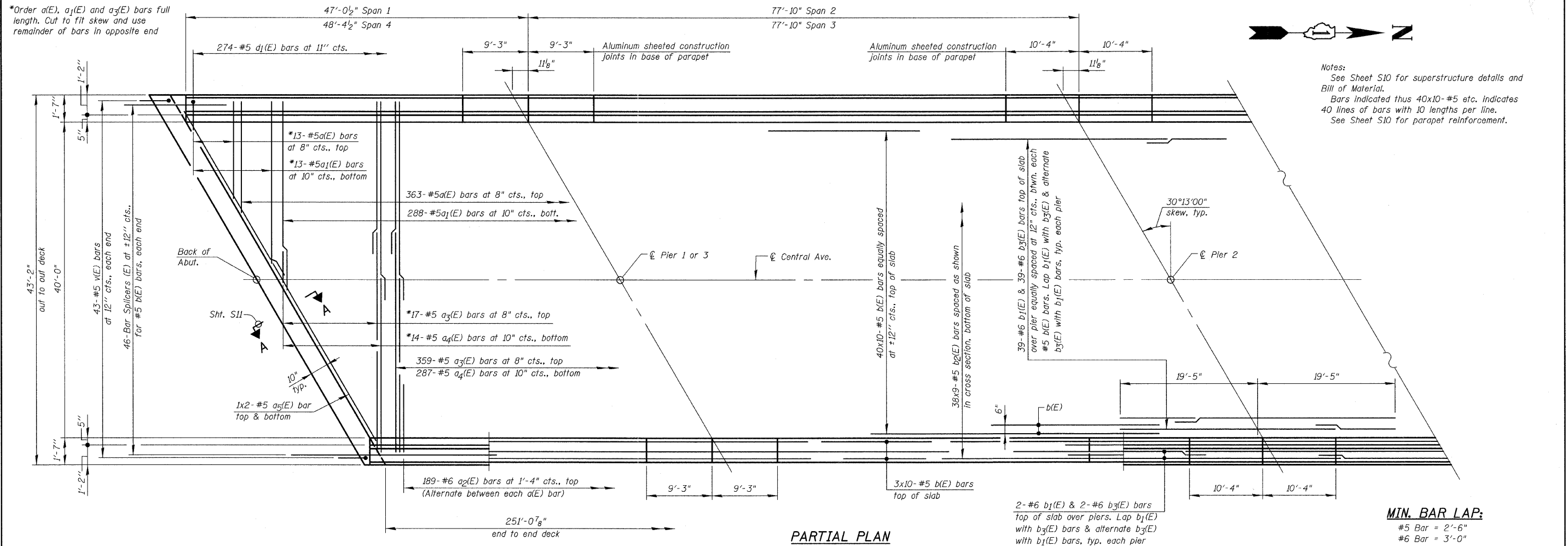


PLAN
North Approach

FILE NAME = I:\1029099_Central Ave Structural\CADD_Sheets\160P17-08_north-approach-slab.elev.dgn

<p>CHRISTIAN-ROGE & ASSOCIATES, INC.</p>	USER NAME = IDOT	DESIGNED - J.C.N./B.N.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF NORTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 016-2458	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000000' / IN.	CHECKED - B.N.S.	REVISED -			80	1415-803HB-R	COOK	51	23	
	PLOT DATE = 11/17/2011	DRAWN - F.M.	REVISED -			CONTRACT NO. 60P17					
	DATE - NOVEMBER 17, 2011	REVISOR -	REVISED -			ILLINOIS FED. AID PROJECT					
SHEET NO. 58 OF 524 SHEETS											

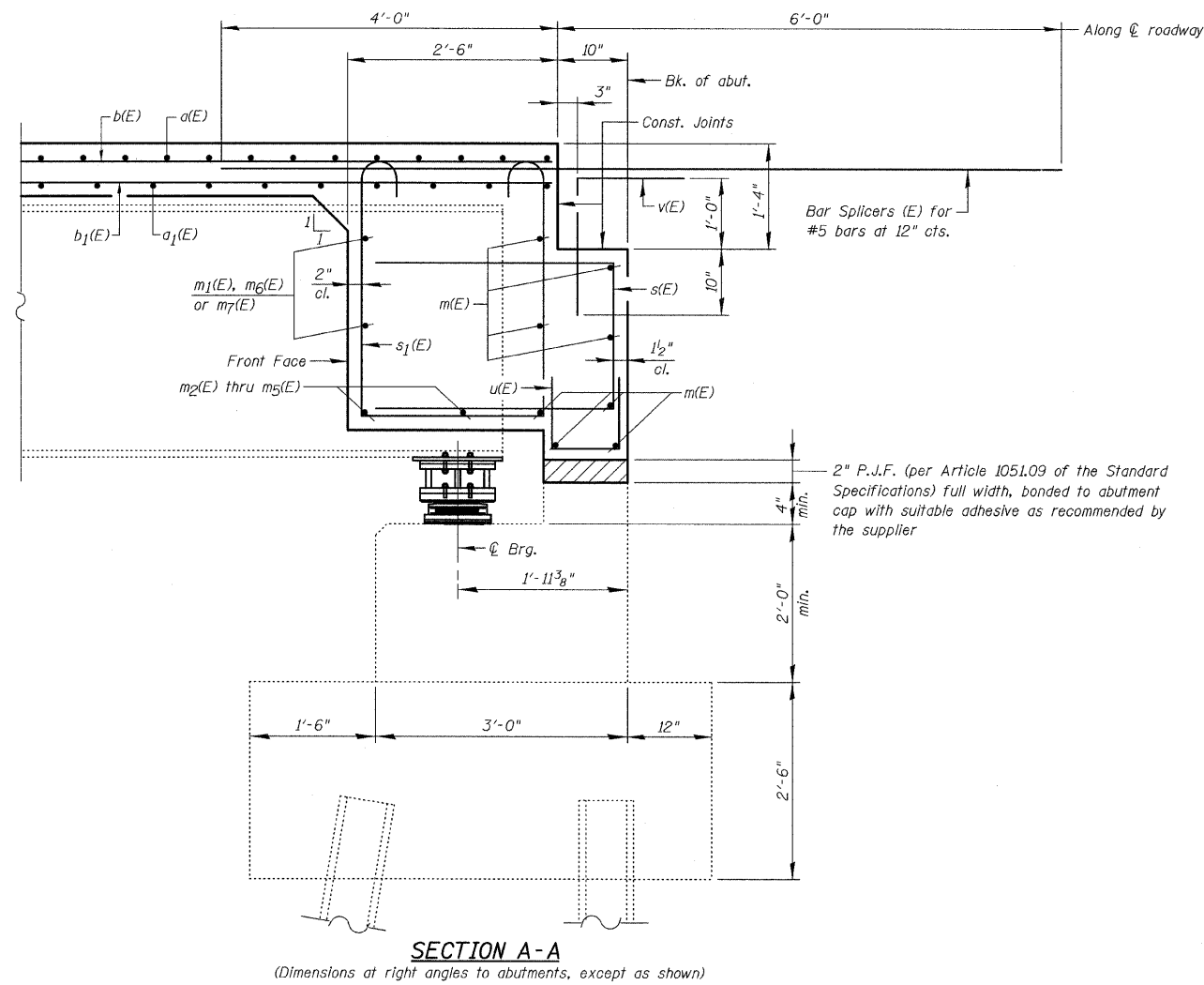
*Order a(E), a₁(E) and a₃(E) bars full length. Cut to fit skew and use remainder of bars in opposite end



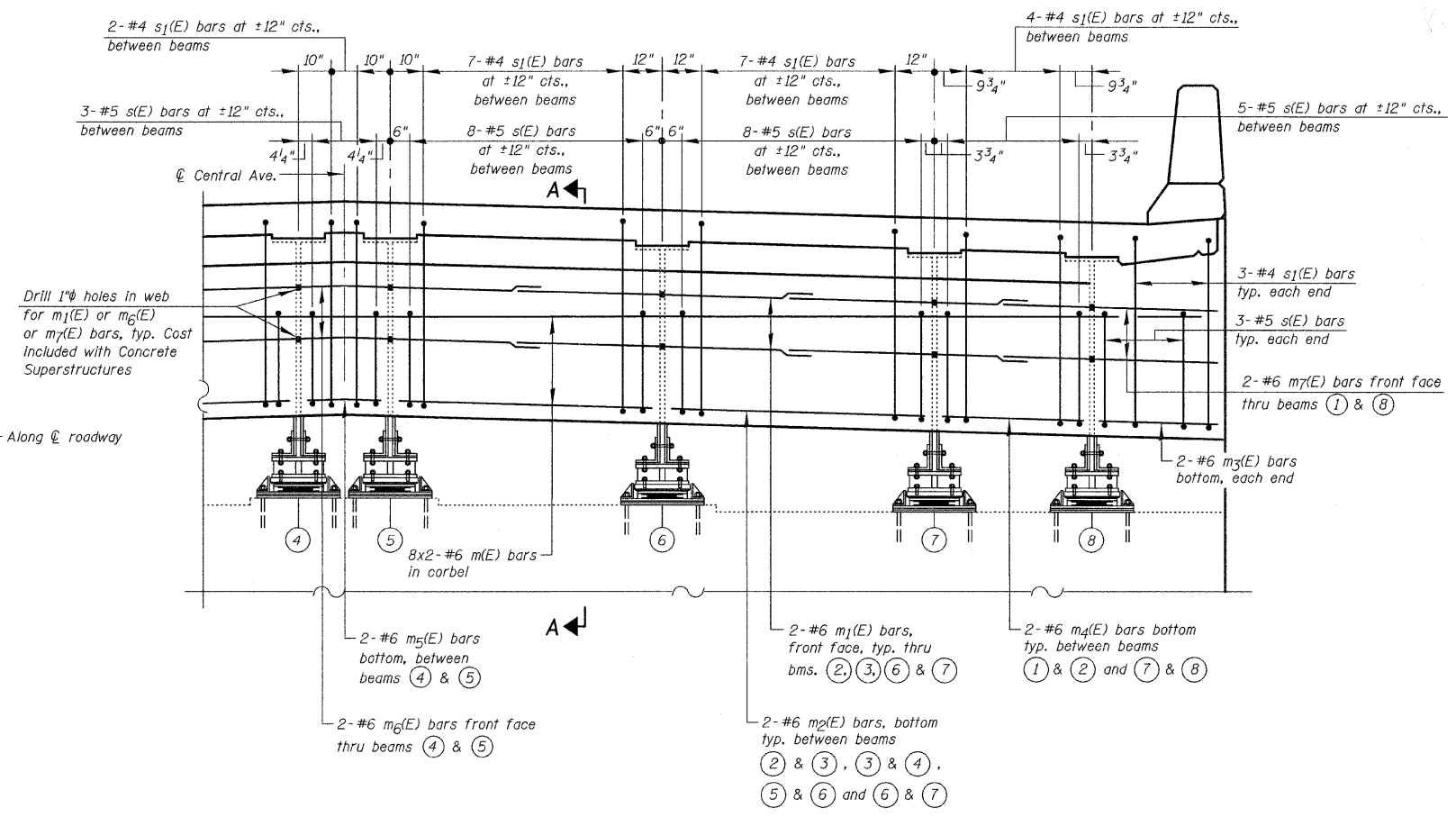
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	PLOT SCALE = 5/8"=1' / IN.	CHECKED - B.N.S.	REVISED -			80	1415-803HB-R	COOK	51	24	
	PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -			CONTRACT NO. 60P17					
		DATE - DECEMBER 9, 2011	REVISED -			ILLINOIS FED. AID PROJECT					
SHEET NO. S9 OF S24 SHEETS											

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SECTION A-A
(Dimensions at right angles to abutments, except as shown)



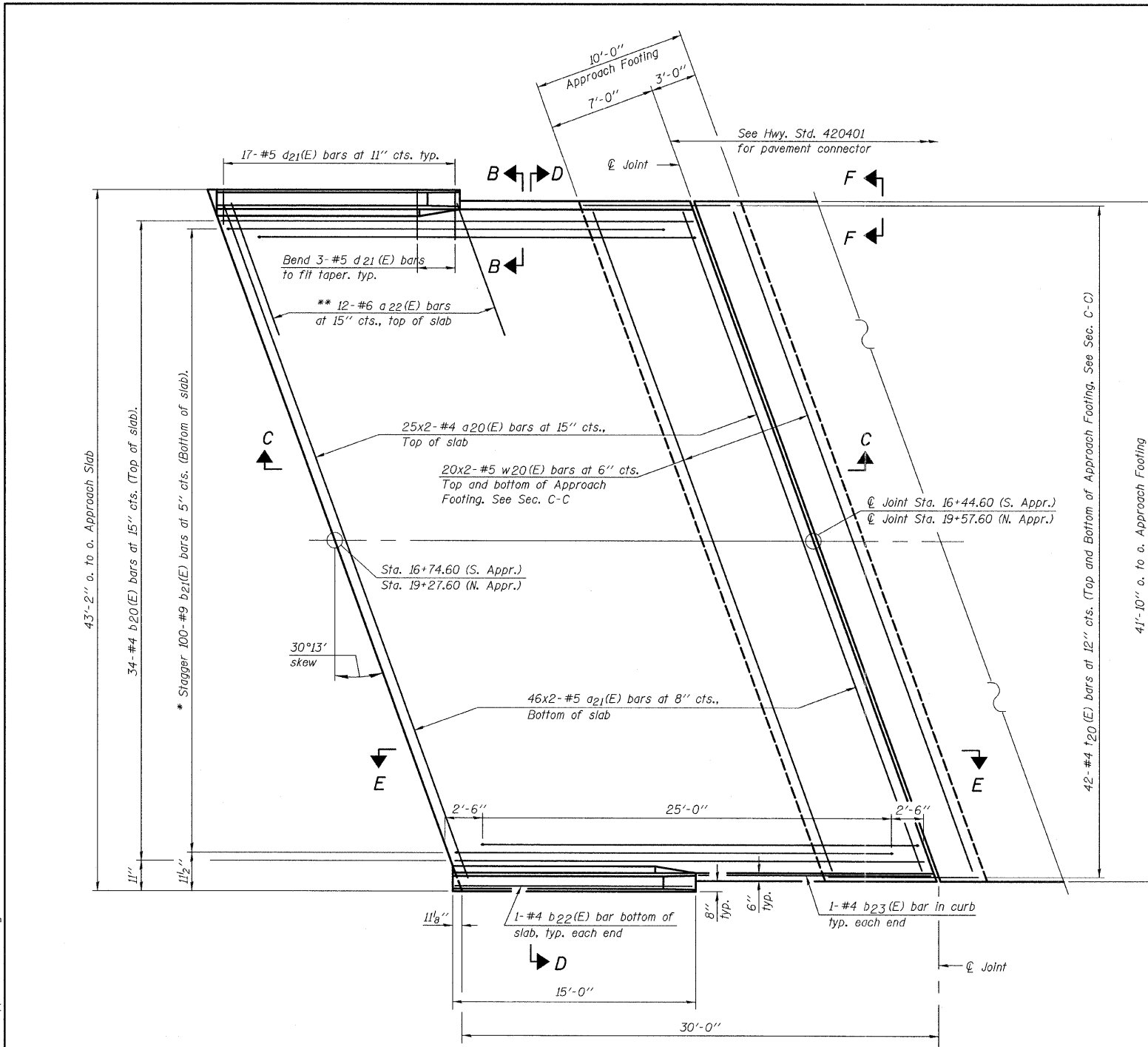
DIAPHRAGM ELEVATION AT SEMI-INTEGRAL ABUTMENT
(North Abutment - shown
South Abutment - opp. hand)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet S10.
Concrete in diaphragm is included with Concrete Superstructure on sheet S10.
For details of bars s(E), s1(E), u(E) & v(E) see sheet S10.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP
#6 bar = 3'-4"

	USER NAME = ID0T	DESIGNED - J.C.N./B.N.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS-II STRUCTURE NO. 016-2458	F.A.I. R.T.E. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 26
	PLOT SCALE = 50.000000 ' / IN.	DRAWN - F.M.	REVISED -			CONTRACT NO. 60P17				
	PLOT DATE = 12/10/2011	DATE - DECEMBER 9, 2011	REVISED -			SHEET NO. S11 OF S24 SHEETS				
						ILLINOIS FED. AID PROJECT				

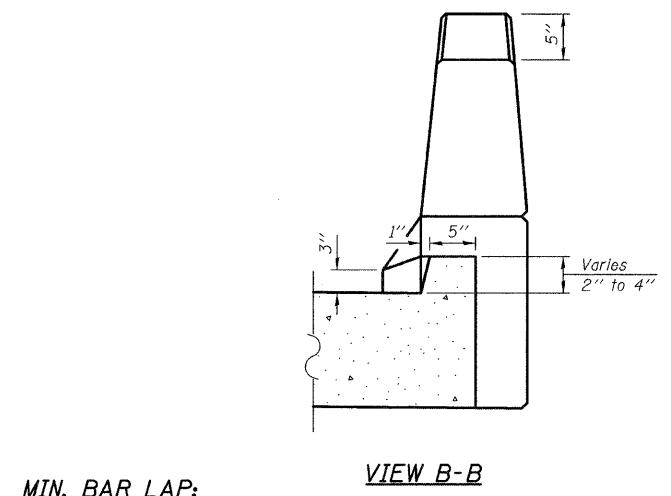
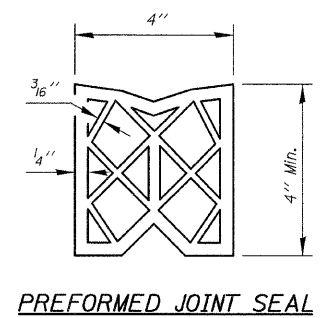
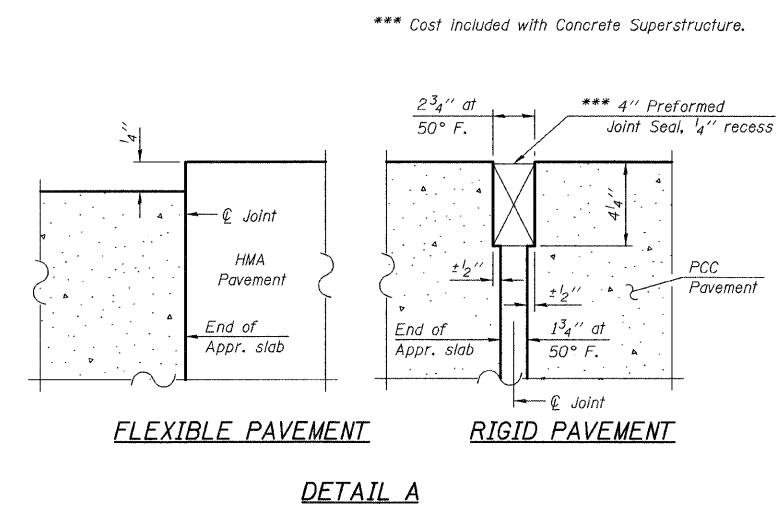
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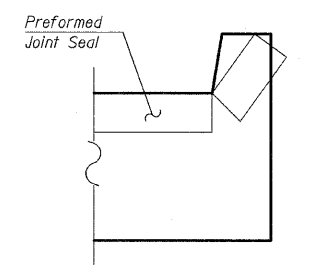
PLAN
(North Approach Slab Shown)
(South Approach Slab Opp. Hand)

* Tilt #9 b21(E) bars as required to maintain clearance.
** Space between a22(E) bars, typ. each parapet.

Notes:
See sheet S13 for Sections C-C & D-D and View E-E.
a20(E) and a21(E) bar spacings measured along @ Rdwy.



MIN. BAR LAP:
#4 Bar = 1'-10"
#5 Bar = 2'-6"



BA-R 7-1-10



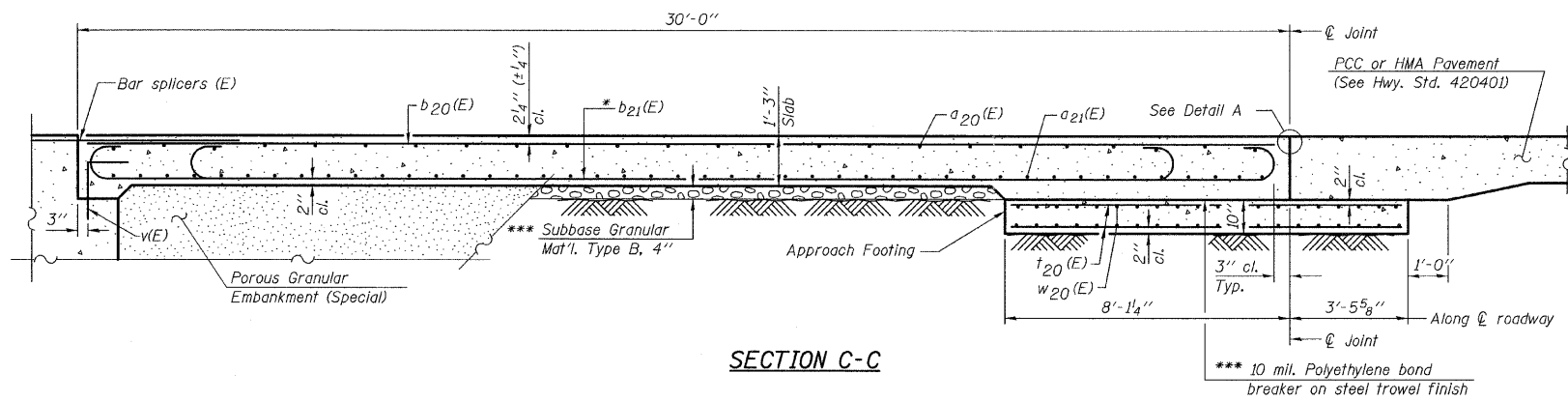
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PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS-I
STRUCTURE NO. 016-2458

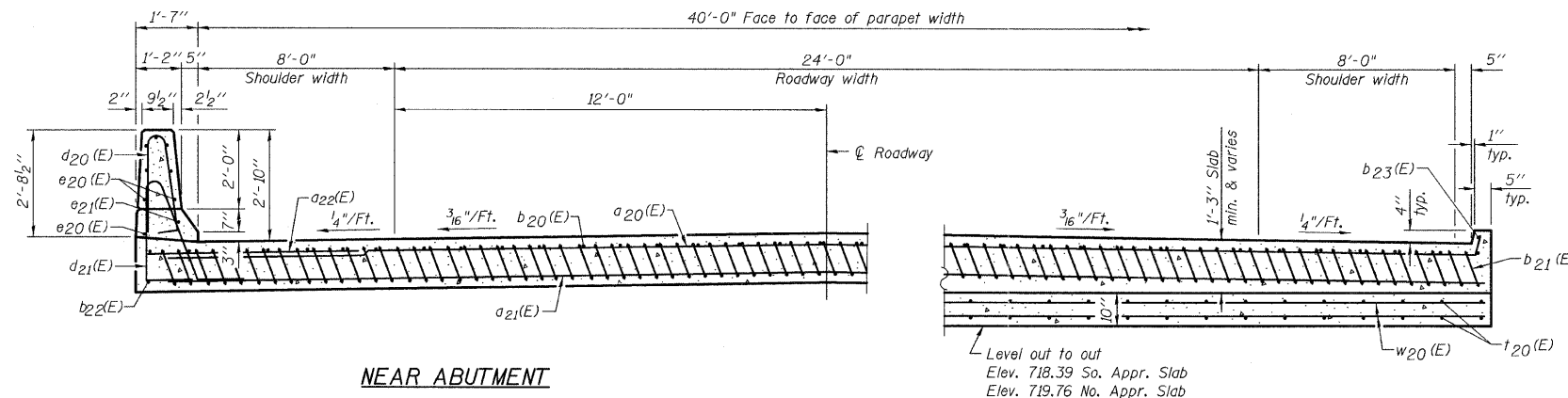
SHEET NO. S12 OF S24 SHEETS

F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 27
				CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT				



SECTION C-C

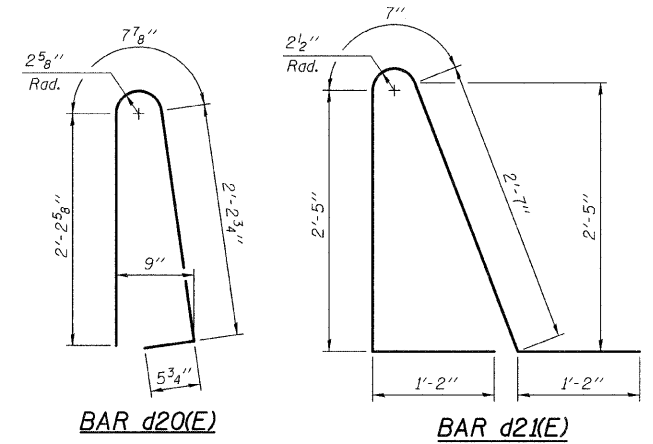
Notes:
 See sheet S12 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet S10.
 The approach footing maximum applied service bearing pressure (G_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet S2.
 For additional parapet details, see sheet S10.



NEAR ABUTMENT

SECTION D-D
(See Plan for dimensions not shown)

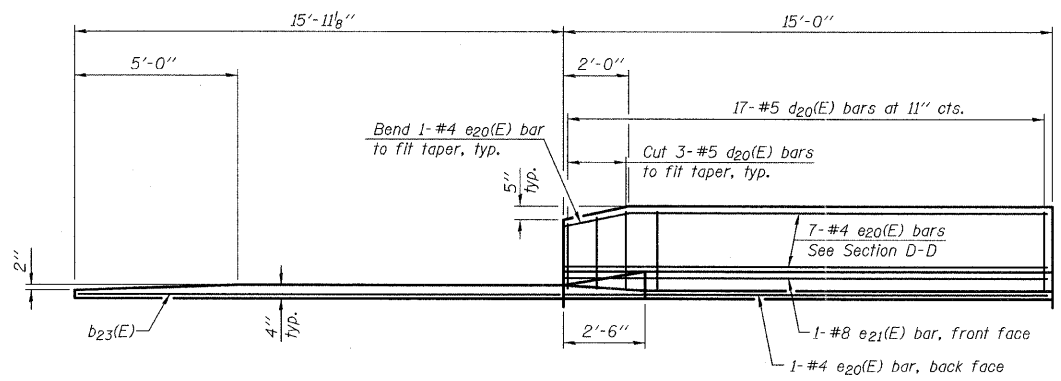
AT APPROACH FOOTING



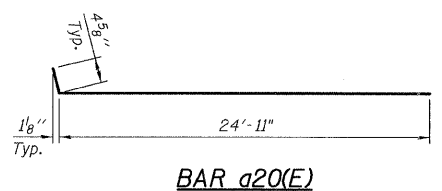
BAR d20(E)

BAR d21(E)

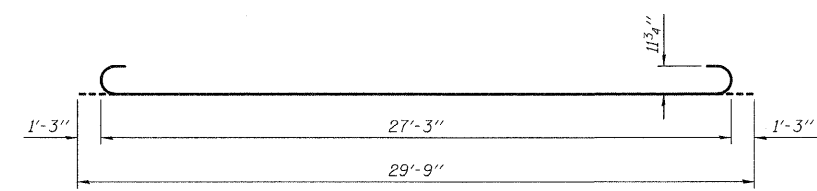
* Tilt #9 b21(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



VIEW E-E



BAR a20(E)



BAR b21(E)

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	100	#4	25'-4"	U
a21(E)	184	#5	25'-3"	U
a22(E)	48	#6	6'-6"	U
b20(E)	68	#4	29'-8"	U
b21(E)	200	#9	29'-9"	U
b22(E)	4	#4	14'-8"	U
b23(E)	4	#4	30'-7"	U
d20(E)	68	#5	5'-7"	L
d21(E)	68	#5	7'-11"	L
e20(E)	32	#4	14'-8"	U
e21(E)	4	#8	14'-8"	U
t20(E)	168	#4	11'-3"	U
w20(E)	160	#5	25'-3"	U
Concrete Superstructure		Cu. Yd.		126
Concrete Structures		Cu. Yd.		29.8
Reinforcement Bars, Epoxy Coated		Pound		35,610

FILE NAME = I:\029093_Central_Ave_Structural\CADD_Sheets\0160P17-13-appro-slab-det-II.dgn

BA-R 7-1-10

CHRISTIAN-ROGE & ASSOCIATES, INC.

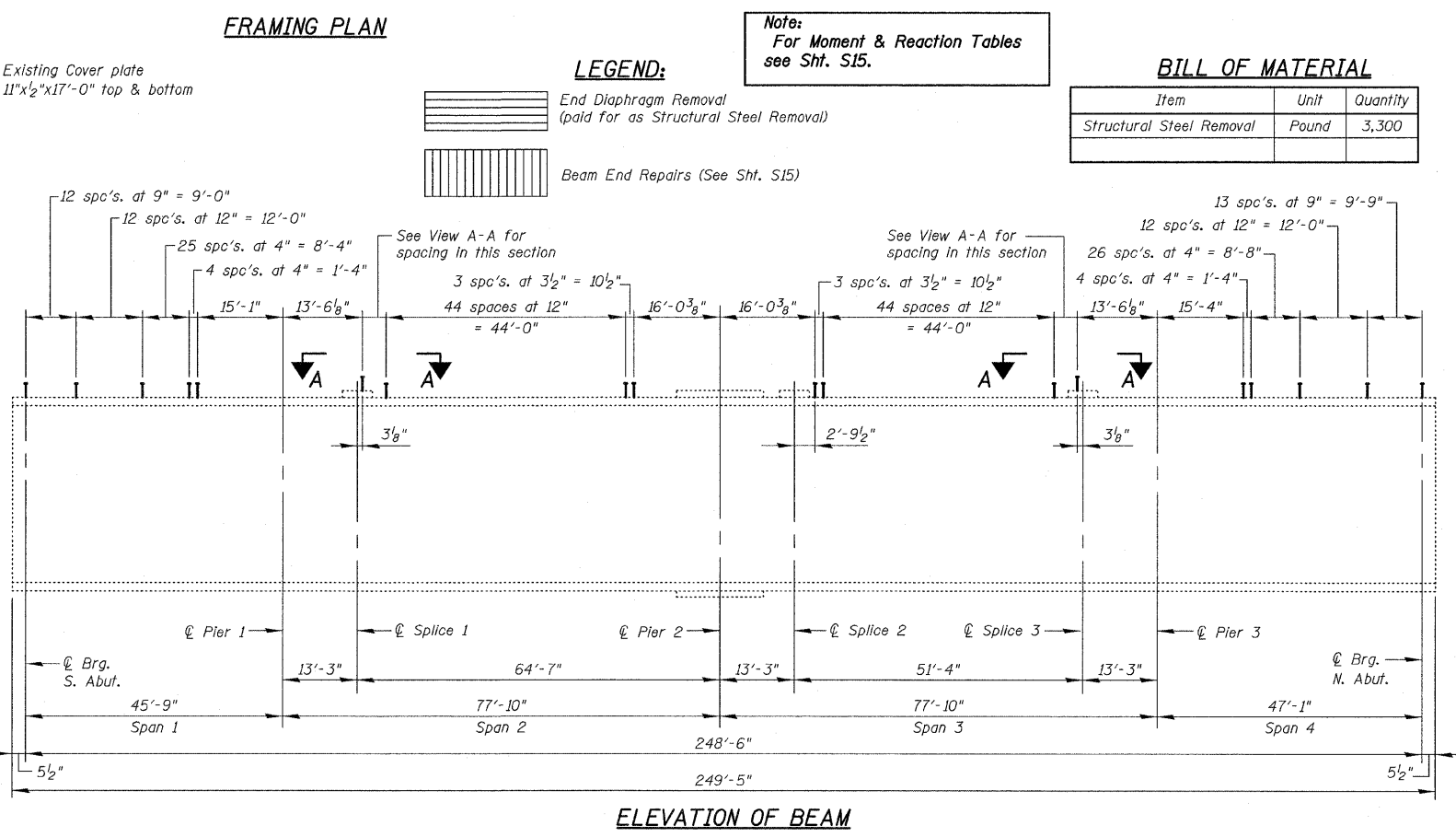
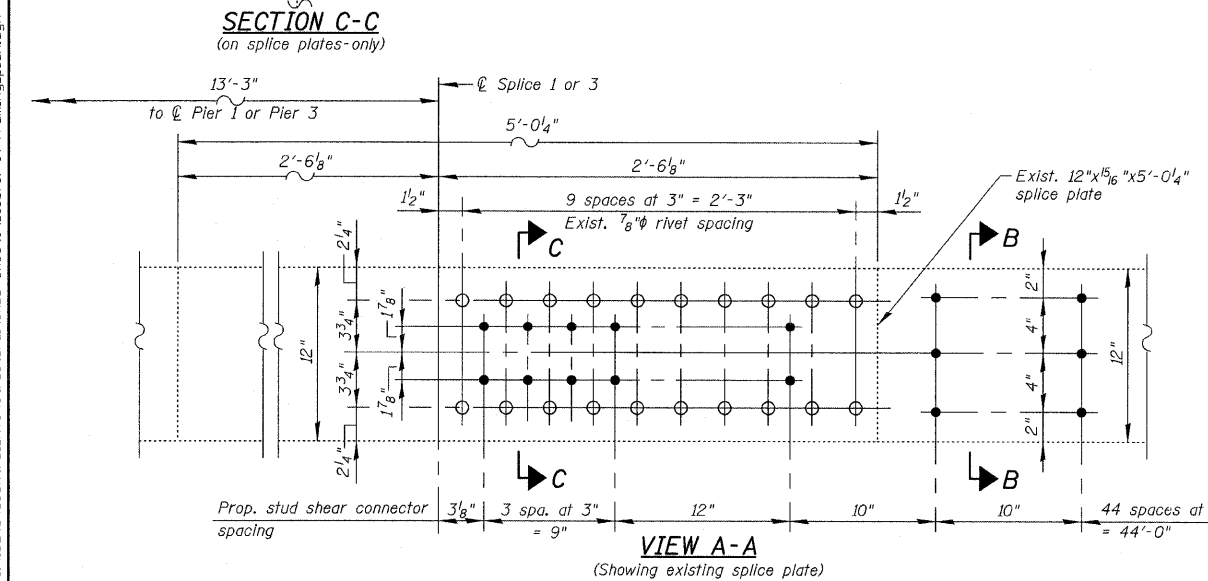
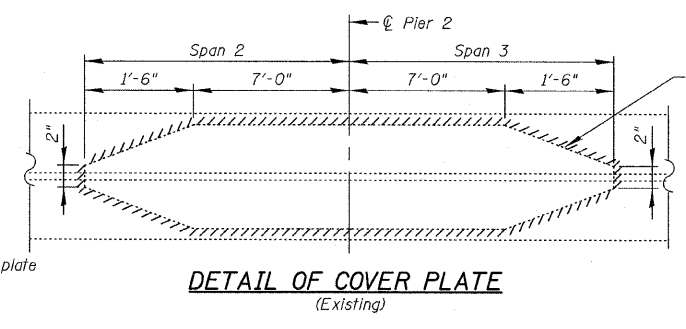
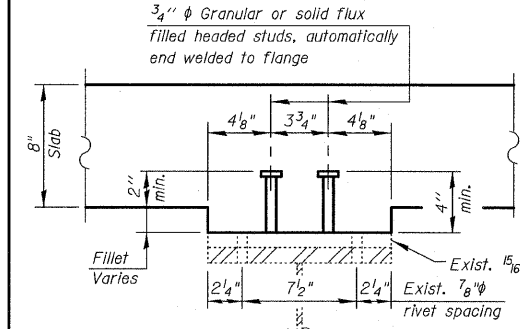
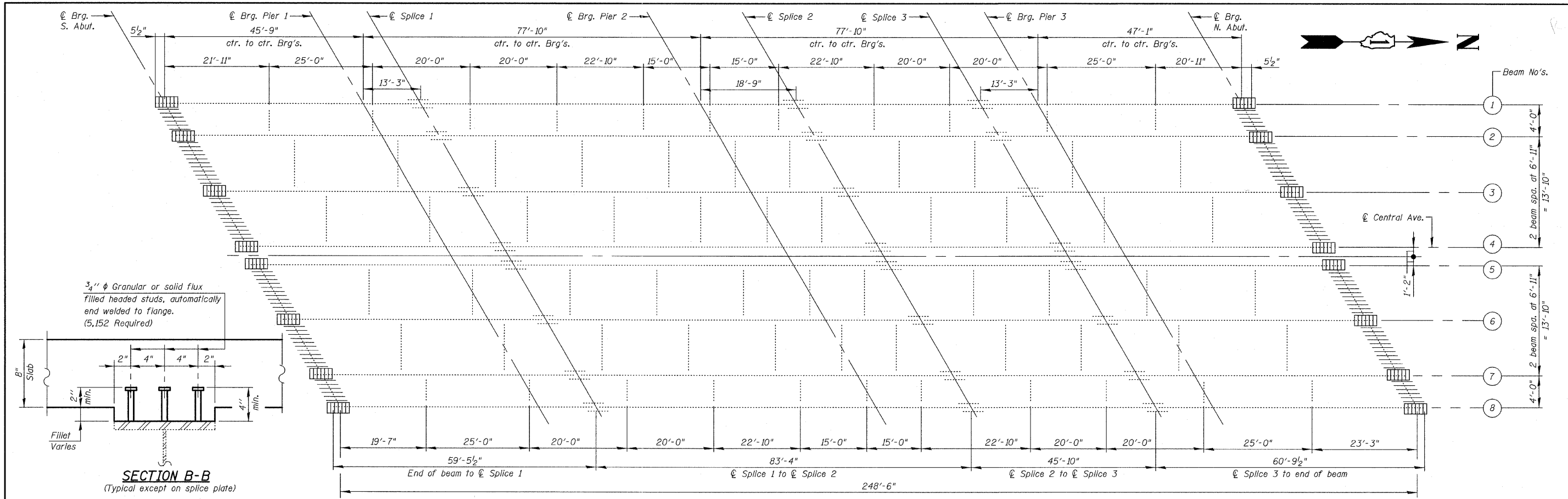
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PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS-II
 STRUCTURE NO. 016-2458

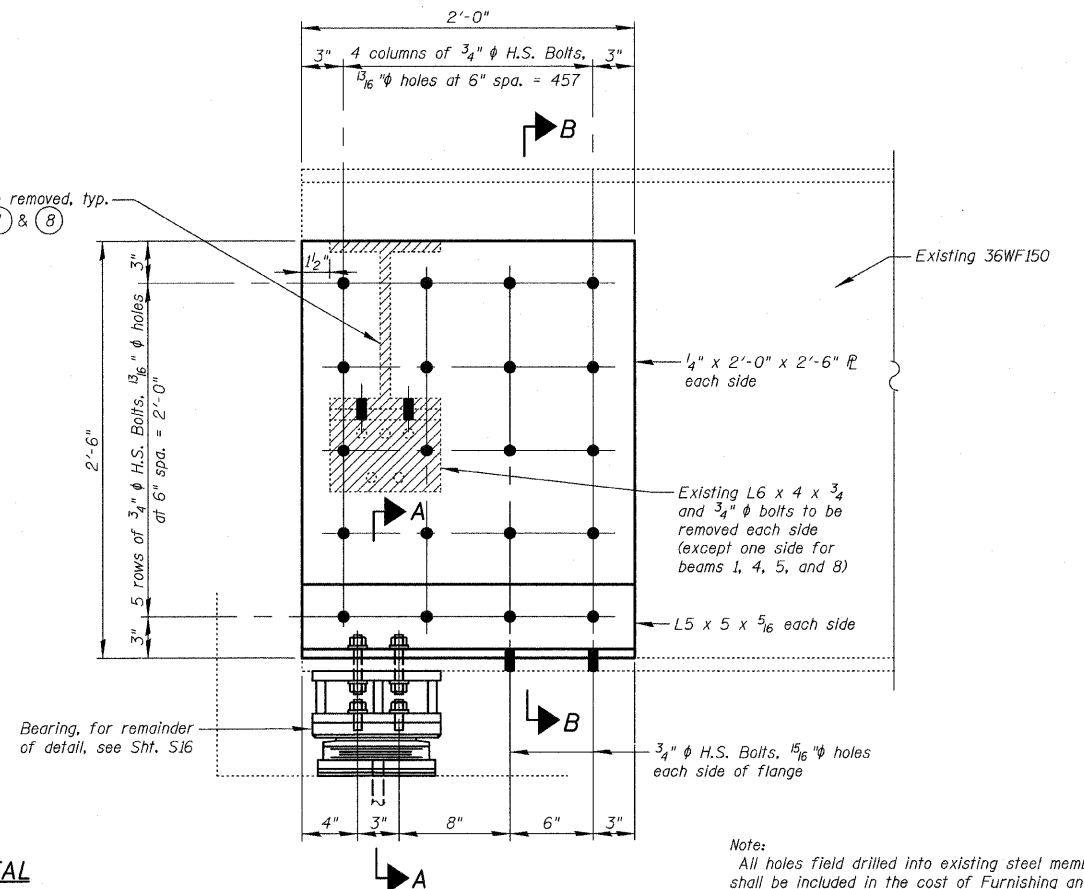
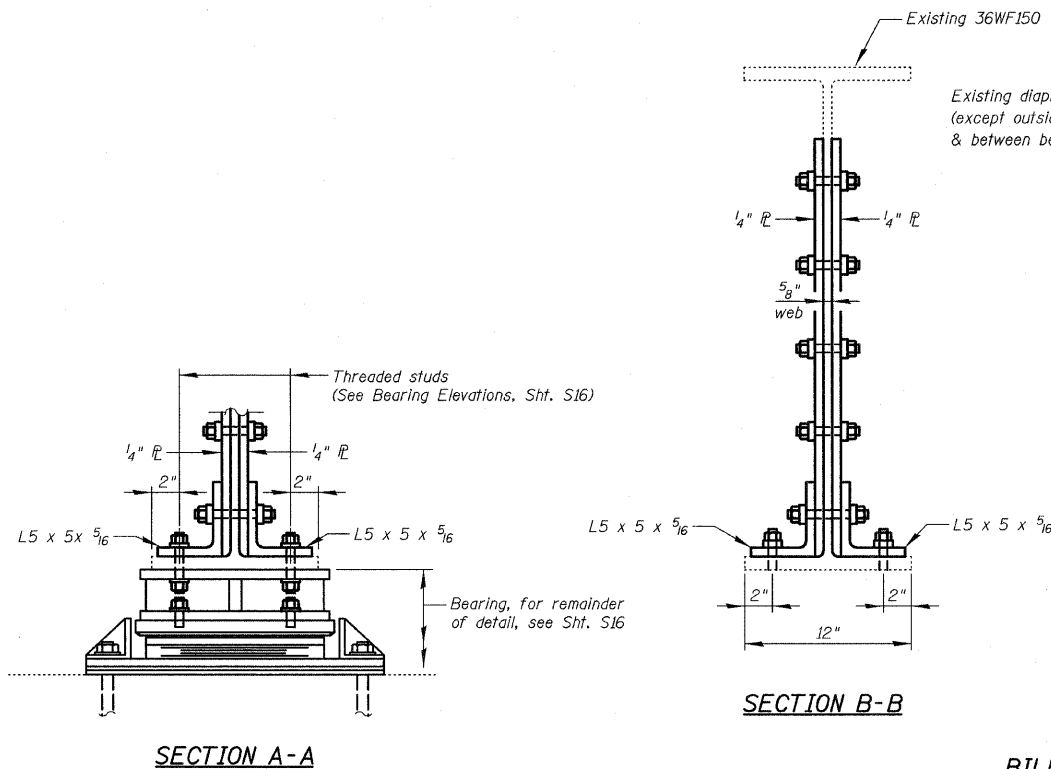
SHEET NO. S13 OF S24 SHEETS

F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 28
				CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT				



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	PLOT DATE = 12/12/2011	DRAWN - F.M.	REVISED -							
		DATE - DECEMBER 9, 2011	REVISED -			CONTRACT NO. 60P17				



BILL OF MATERIAL

Item	Unit	Quantity
Furnishing and Erecting Structural Steel	Pound	2,560

END OF BEAM REPAIR
(See Framing Plan, Sht. S14 for locations)
(16 thus)

Note:
All holes field drilled into existing steel members shall be included in the cost of Furnishing and Erecting Structural Steel.

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

Q : Un-factored non-composite dead load (kips/ft.).

M_Q : Un-factored moment due to non-composite dead load (kip-ft.).

s_Q : Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_s Q$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_L : Un-factored live load moment (kip-ft.).

M_I : Un-factored moment due to impact (kip-ft.).

M_a : Factored design moment (kip-ft.).

$L_3 [M_Q + M_s Q + \frac{1}{3} (M_L + M_I)]$

M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

f_s (Overload): Sum of stresses as computed from the moments below (ksi).

$M_Q + M_s Q + \frac{1}{3} (M_L + M_I)$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).

$L_3 [M_Q + M_s Q + \frac{1}{3} (M_L + M_I)]$

VR: Maximum + impact shear range within the composite portion of the span for stud shear connector design (kips).

INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1	0.5 Sp. 2 or 0.5 Sp. 3	Piers 1 or 3	Pier 2	0.6 Sp. 4
I_s	8,902	8,902	8,902	12,704	8,902
$I_c(n)$	23,728	23,728	-	-	23,728
$I_c(3n)$	17,307	17,307	-	-	17,307
S_s	496	496	496	687	496
$S_c(n)$	734	734	-	-	734
$S_c(3n)$	661	661	-	-	661
Q	0.882	0.882	1.343	1.343	0.882
M_Q	82.3	250.8	502.3	708.7	93.9
s_Q	0.461	0.461	-	-	0.461
$M_s Q$	53.9	160.6	-	-	60.1
M_L	294.0	480.4	273.0	333.4	305.4
M_I	86.1	118.7	68.3	82.3	88.8
$L_3 [M_Q + \frac{1}{3} M_L + \frac{1}{3} M_I]$	633.5	998.5	568.9	692.8	657.0
M_u	1,000.6	1,832.9	1,392.0	1,822.0	1,054.3
M_u	2,143.8	2,026.2	-	-	2,136.5
f_s non-comp	2.0	6.1	12.2	12.4	2.3
f_s comp	1.0	2.9	-	-	1.1
$f_s [M_Q + M_L + M_I]$	10.4	16.3	9.3	9.1	10.8
f_s (Overload)	13.4	25.3	21.5	21.5	14.2
f_s (Total)	-	-	28.0	28.0	-
VR	44.9	50.8	-	-	49.1

INTERIOR GIRDER REACTION TABLE

	Abut's.	Piers 1 & 3	Pier 2
R_Q	20.7	92.0	109.7
R_L	35.2	45.9	50.9
R_I	10.3	12.3	12.6
R_{Total}	66.2	150.2	173.2

* Compact section
** Braced non-compact and partially braced section

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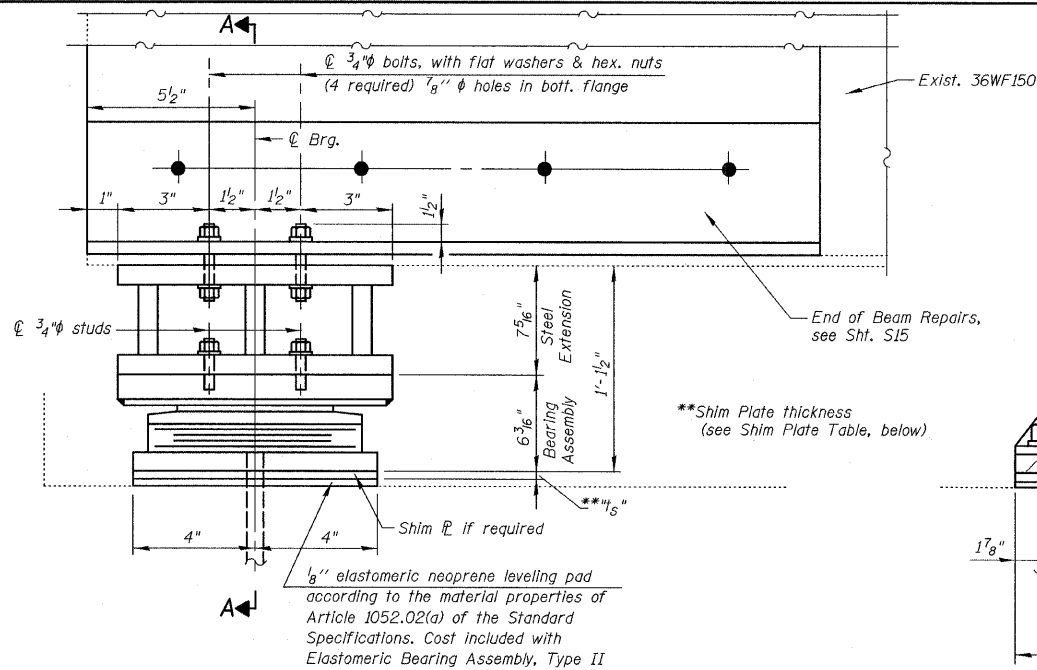
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	PLOT DATE = 12/12/2011	DRAWN - F.M.	REVISED -
		DATE - DECEMBER 9, 2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEAM END REPAIRS
STRUCTURE NO. 016-2458**

SHEET NO. S15 OF S24 SHEETS

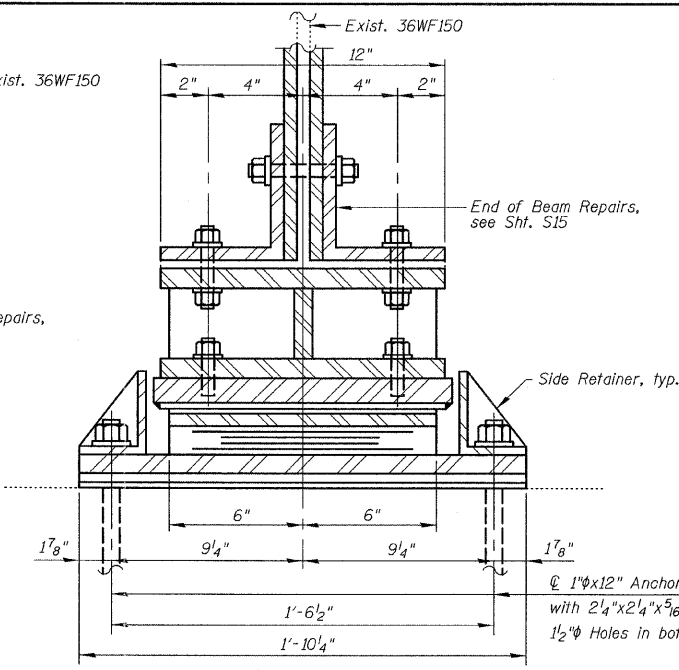
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80	1415-803HB-R	COOK	51	30
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				



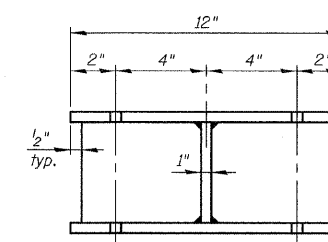
ELEVATION

PROPOSED TYPE II ELASTOMERIC EXP. BRG. WITH FABRICATED STEEL EXTENSIONS

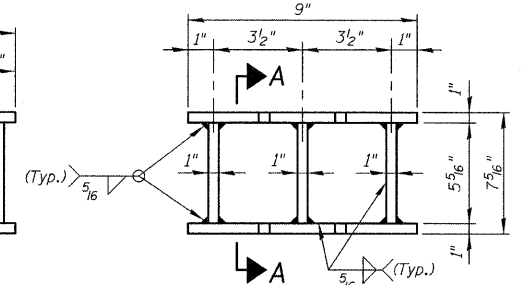
(at South & North Abutments)
(16 required)



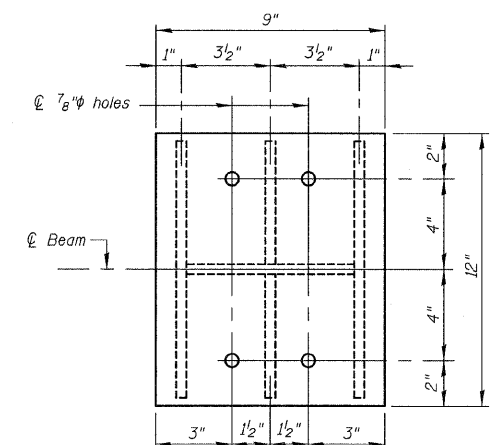
SECTION A-A



SECTION A-A



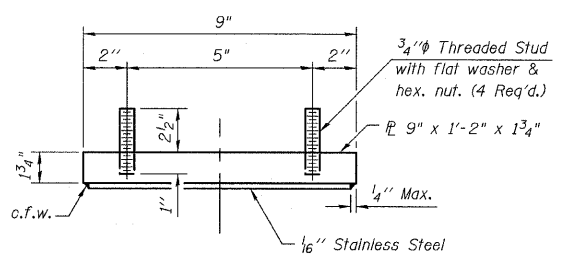
ELEVATION



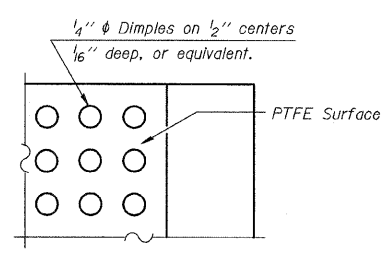
TOP & BOTTOM PLATE PLAN

STEEL EXTENSION DETAIL
(16 required)

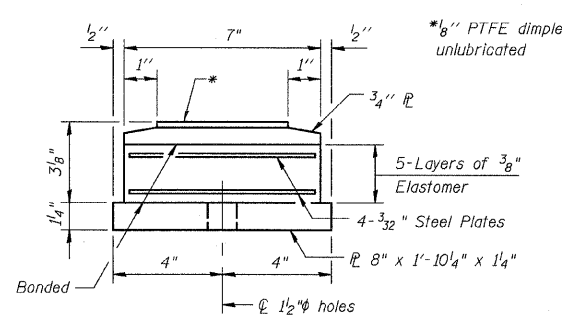
Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly, including steel extensions, shall be included in the cost of Elastomeric Bearing Assembly, Type II.
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
The Contractor shall submit plans for jacking the existing Superstructure for approval by the Engineer prior to commencing any work with the bearings. The submittal shall be prepared and sealed by a Licensed Structural Engineer in Illinois.
It shall be the Contractor's responsibility to verify all dimensions between the bottom of the bridge beams and the top of the bearing seat in the field prior to Construction or ordering of materials.
Two 1/2 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Prior to ordering any material, the Contractor shall verify, in the field, all bearing height and shim thickness dimensions.
The Contractor shall supply additional Shim Plates if required to bring devices to Grade. Cost included with Elastomeric Bearing Assembly, Type II.



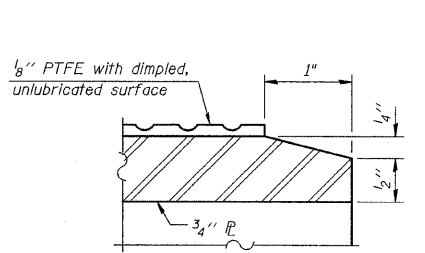
TOP BEARING ASSEMBLY



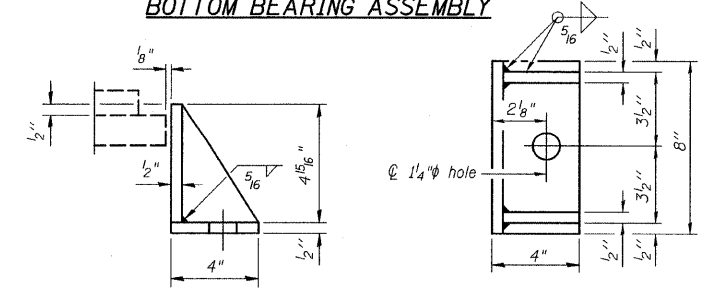
PLAN-PTFE SURFACE



BOTTOM BEARING ASSEMBLY

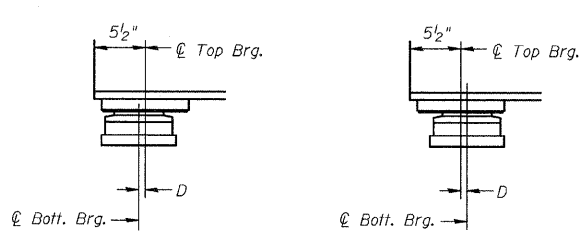


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates



SETTING ANCHOR BOLTS AT EXP. BRG.

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

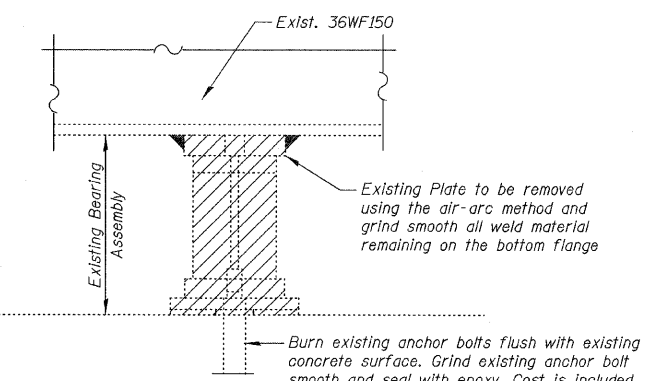
BEAM REACTION TABLE
(at South & North Abutment)

	South Abutment	North Abutment
R ₀	(k) 20.7	20.7
R ₁	(k) 35.2	35.2
R _{Imp.}	(k) 10.3	10.3
R (Total)	(k) 66.2	66.2

Minimum Jack capacity at each bearing = 50 tons

SHIM PLATE TABLE

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
South Abutment - "t ₅ "	-	3/8"	-	-	5/8"	5/8"	3/8"	-
North Abutment - "t ₅ "	-	3/8"	-	-	-	-	-	3/8"



EXISTING BEARING REMOVAL DETAIL
(16 required)

BILL OF MATERIAL

Item	Unit	Quantity
Elastomeric Bearing Assembly, Type II	Each	16
Anchor Bolts, 1"	Each	32
Jack and Remove Existing Bearings	Each	16

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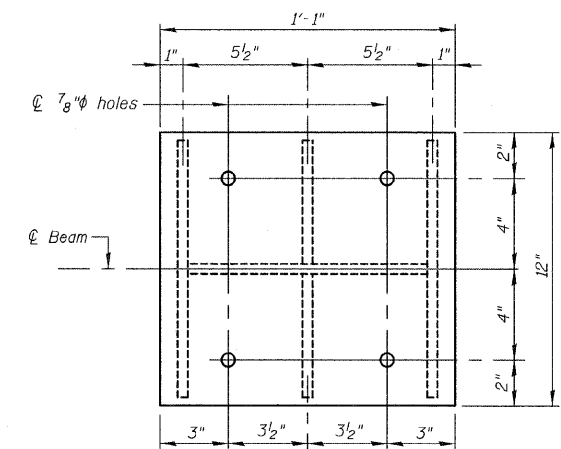
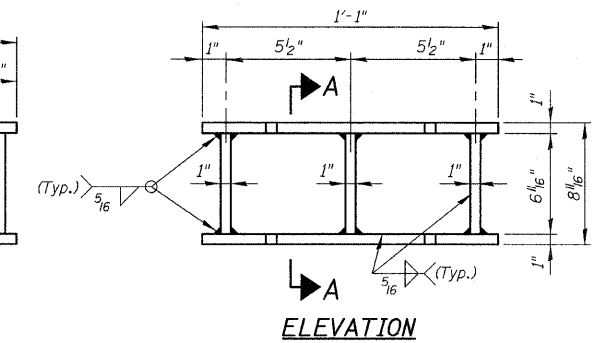
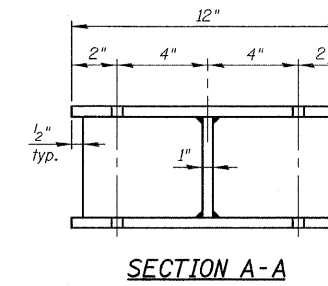
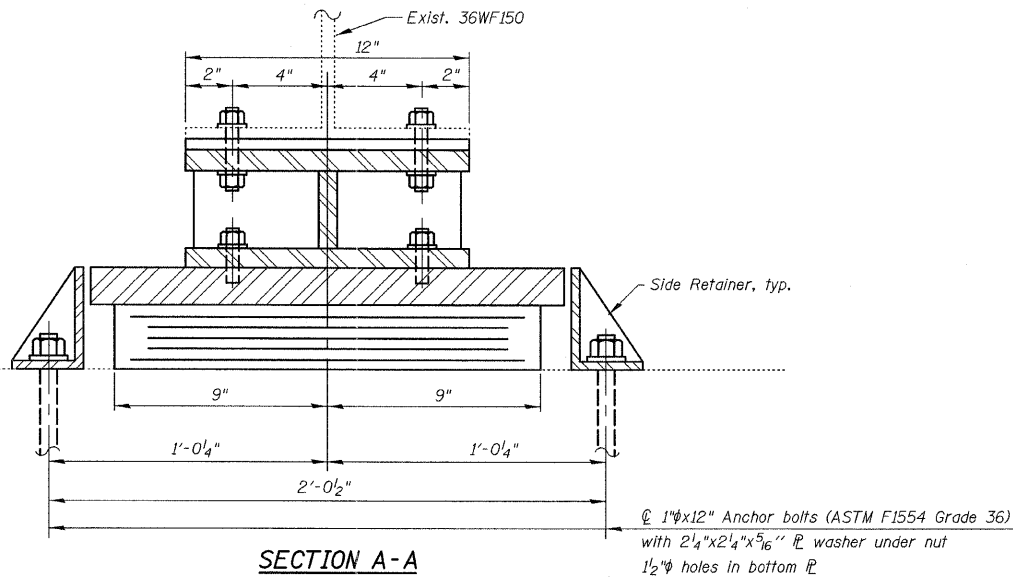
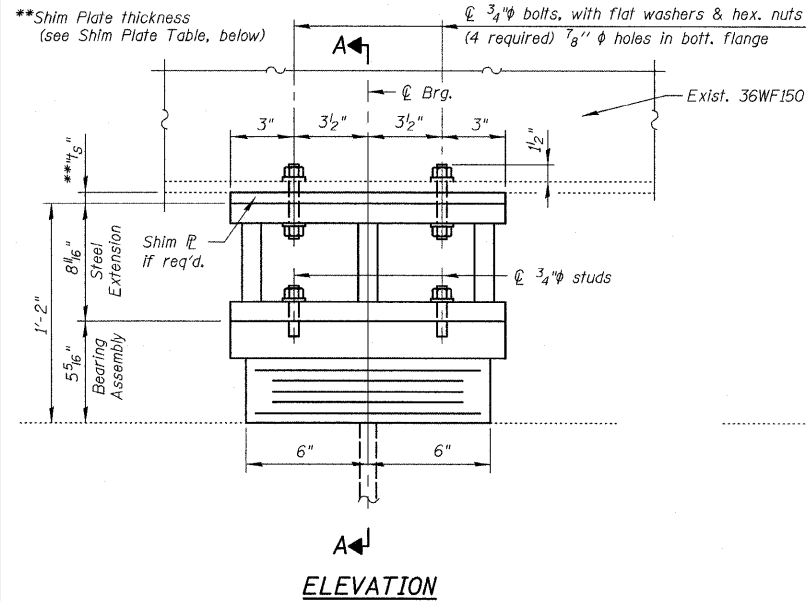
CHRISTIAN-ROGE & ASSOCIATES, INC.
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CHECKED - B.N.S.
PLOT SCALE = 50.000000' / IN.
DRAWN - F.M.
PLOT DATE = 12/10/2011
DATE - DECEMBER 9, 2011

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

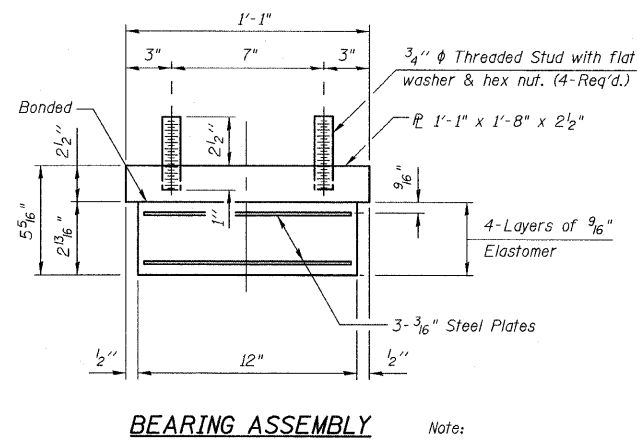
BEARING DETAILS-SOUTH & NORTH ABUTMENTS
STRUCTURE NO. 016-2458

F.A.I. SECTION COUNTY TOTAL SHEETS SHEET NO.
RTE. 80 1415-803HB-R COOK 51 31
CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT

SHEET NO. 516 OF 524 SHEETS



PROPOSED TYPE I ELASTOMERIC EXP. BRG WITH FABRICATED STEEL EXTENSIONS - AT PIERS 1 & 3
(16 required)



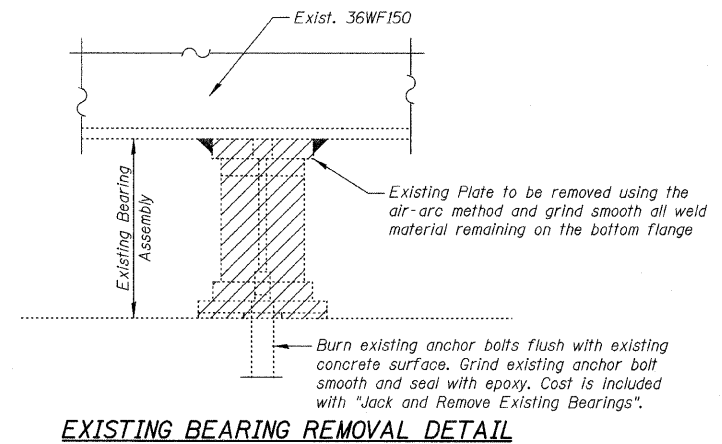
Note: Shim plates shall not be placed under Bearing Assembly.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers and other steel members required for the elastomeric bearing assembly, including steel extensions, shall be included in the cost of Elastomeric Bearing Assembly, Type I.
The Contractor shall submit plans for jacking the existing Superstructure for approval by the Engineer prior to commencing any work with the bearings. The submittal shall be prepared and sealed by a Licensed Structural Engineer in Illinois.
It shall be the Contractor's responsibility to verify all dimensions between the bottom of the bridge beams and the top of the bearing seat, in the field, prior to construction or ordering of materials.
Two $\frac{1}{8}$ In. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Prior to ordering any materials the Contractor shall verify, in the field, all bearing height and shim thickness dimensions.
The Contractor shall supply additional Shim Plates, if required, to bring devices to Grade. Cost included with Elastomeric Bearing Assembly, Type I.

BEAM REACTION TABLE
(at Piers 1 & 3)

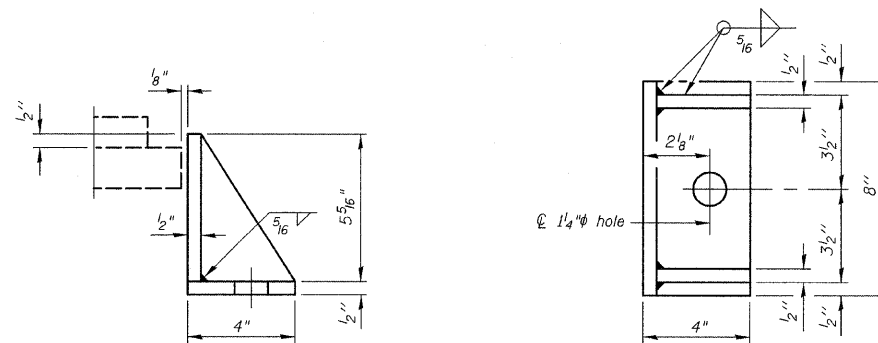
	Pier 1	Pier 3
R ϕ	(k) 92.0	92.0
R $\frac{1}{2}$	(k) 45.9	45.9
R I	(k) 12.3	12.3
R (Total)	(k) 150.2	150.2

Minimum jack capacity at each bearing = 115 tons



SHIM PLATE TABLE

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
Pier 1 - "ts"	$\frac{3}{8}$ "	$\frac{3}{4}$ "	$\frac{3}{8}$ "	1"	1"	1"	$\frac{3}{8}$ "	$\frac{3}{4}$ "
Pier 3 - "ts"	-	$\frac{3}{8}$ "	$\frac{5}{8}$ "	-	-	-	-	$\frac{3}{8}$ "



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Quantity
Elastomeric Bearing Assembly, Type I	Each	16
Anchor Bolts, 1"	Each	32
Jack and Remove Existing Bearings	Each	16

FILE NAME = I:\022005_Central_Ave\Structural\CA00 Sheets\0160P17-17-bearing_det.pers.dgn



USER NAME = 100T
PLOT SCALE = 50.000000' / IN.
PLOT DATE = 12/10/2011

DESIGNED - J.C.N./B.N.S.
CHECKED - B.N.S.
DRAWN - F.M.
DATE - DECEMBER 9, 2011

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

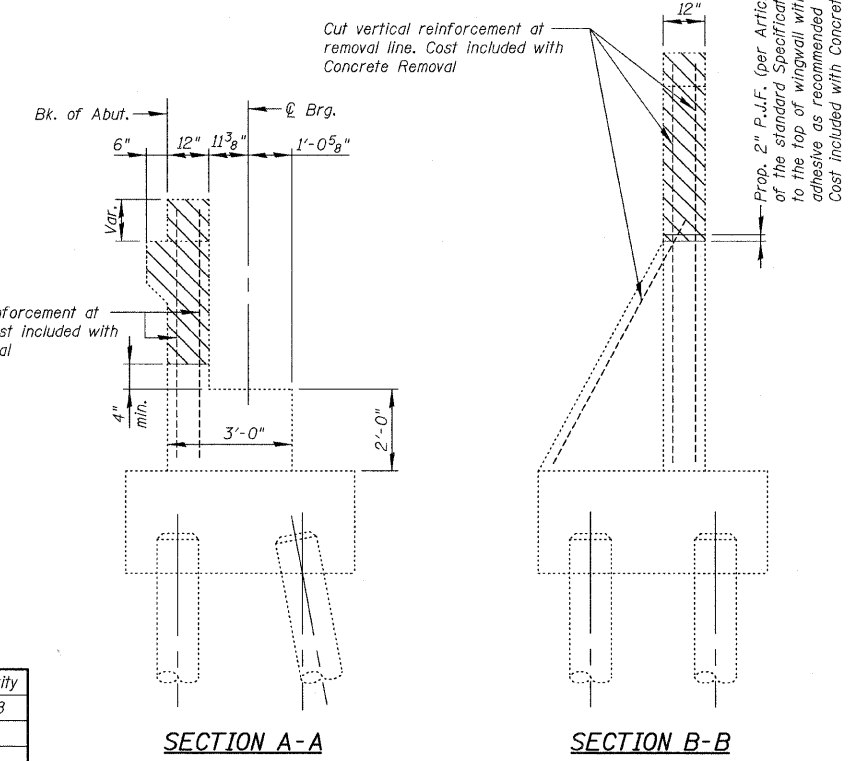
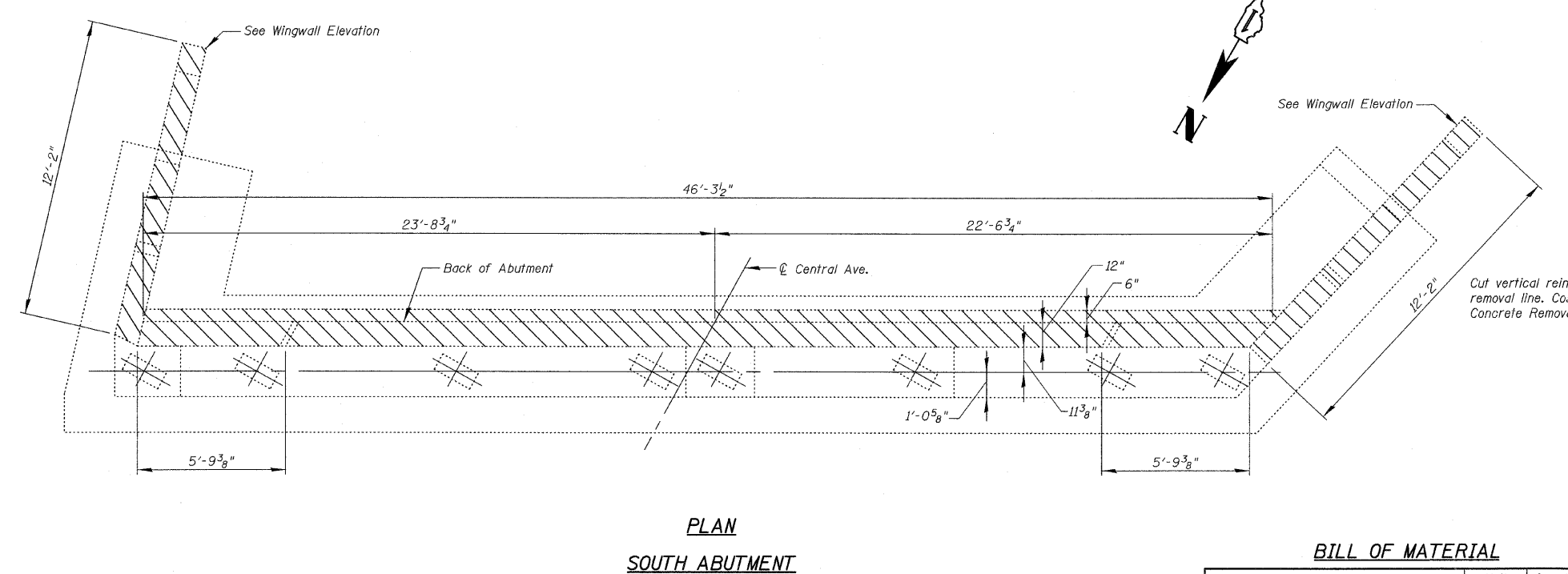
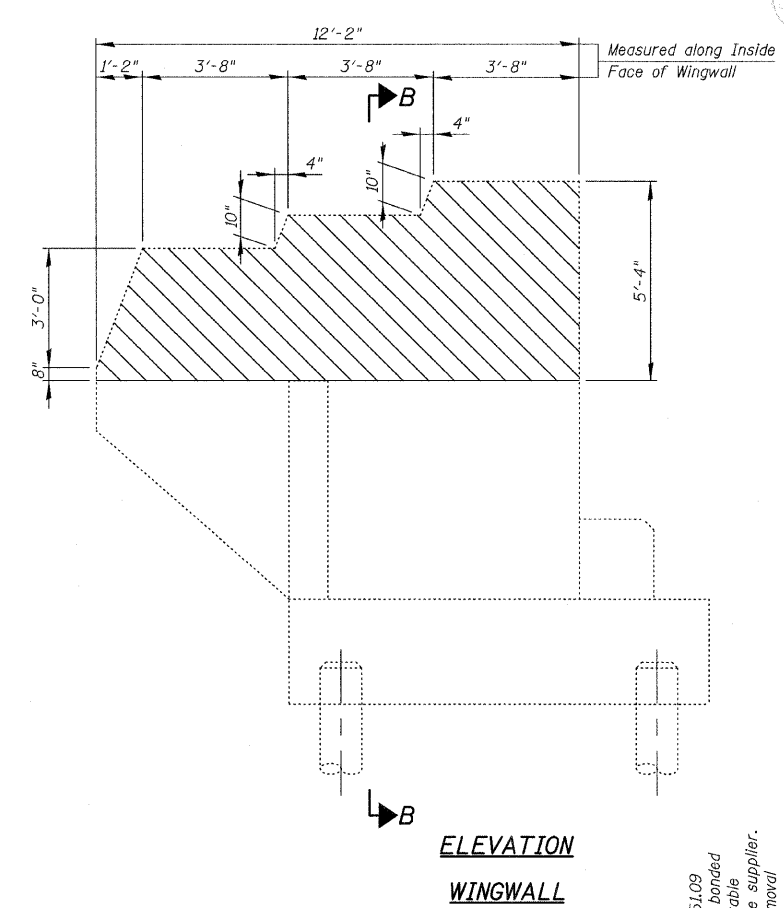
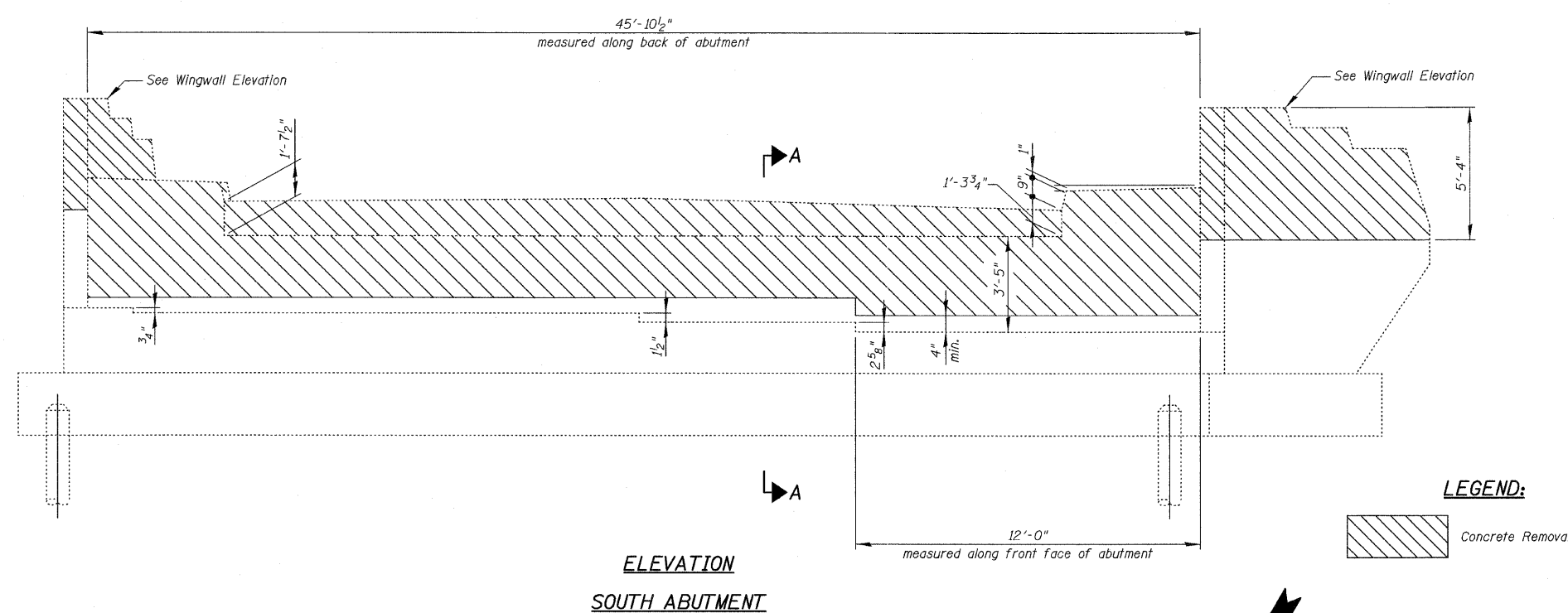
BEARING DETAILS-PIERS 1 & 3
STRUCTURE NO.016-2458

SHEET NO. S17 OF S24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	32

CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT

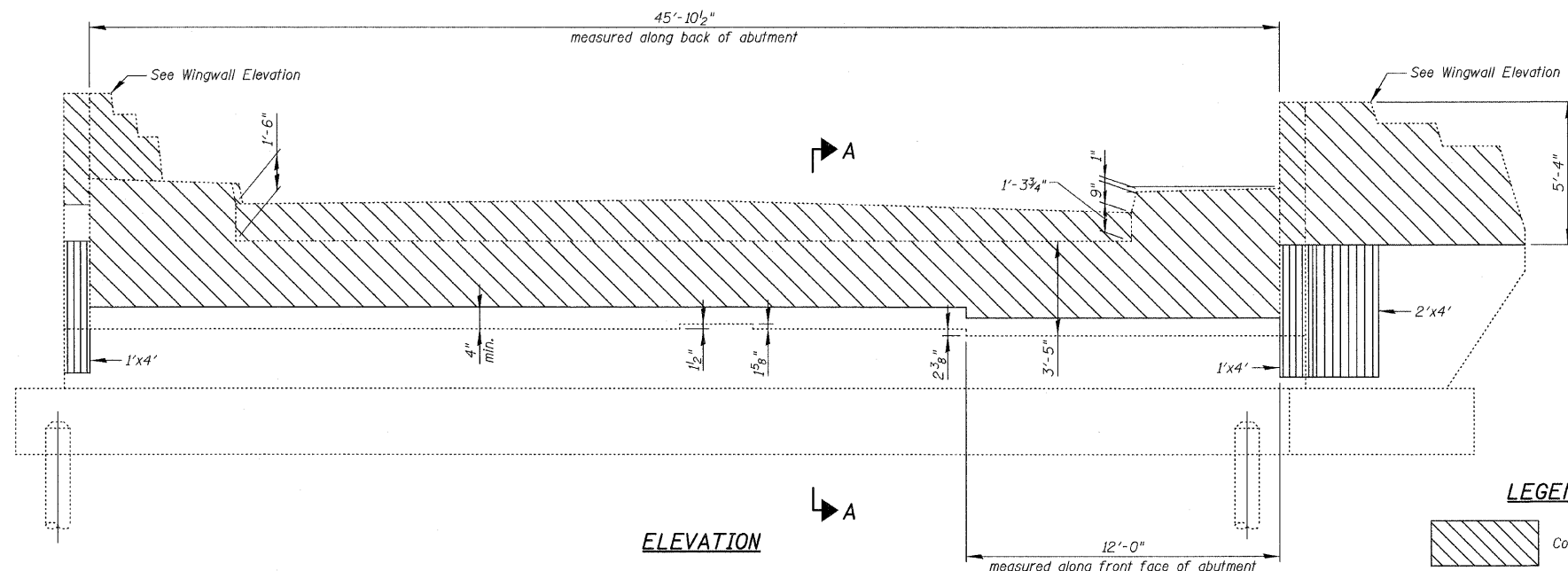
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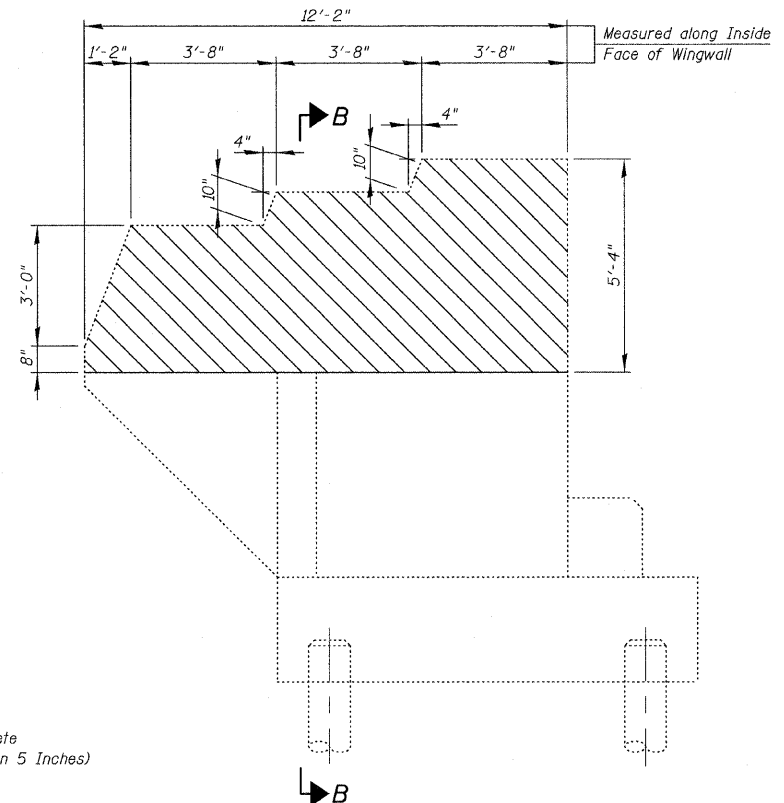
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	12.8

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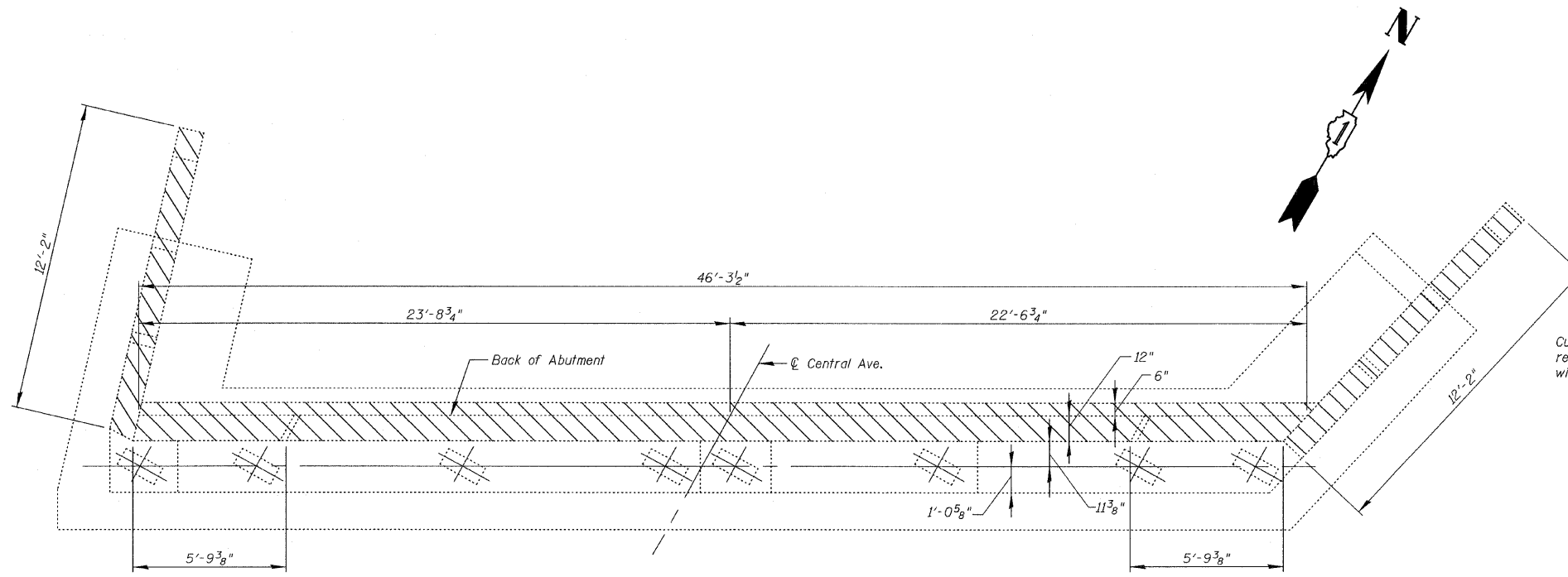


ELEVATION



**ELEVATION
WINGWALL**

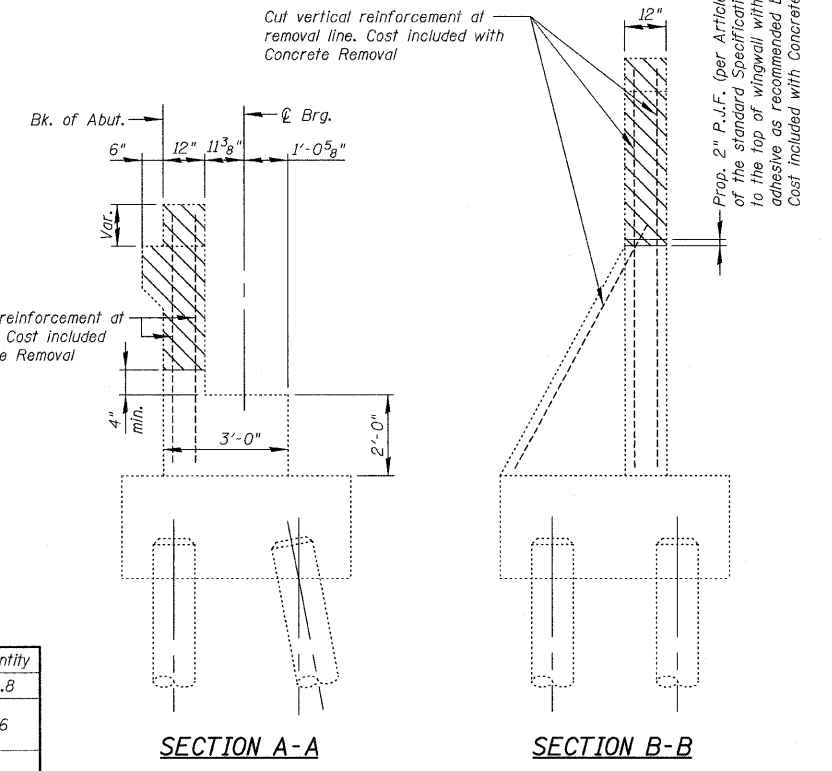
LEGEND:
 Concrete Removal
 Structural Repair of Concrete (Depth Equal to or less than 5 Inches)



**PLAN
NORTH ABUTMENT**

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	12.8
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	16



SECTION A-A

SECTION B-B



USER NAME = IDOT
 DESIGNED - J.C.N./B.N.S.
 CHECKED - B.N.S.
 DRAWN - F.M.
 DATE - DECEMBER 9, 2011

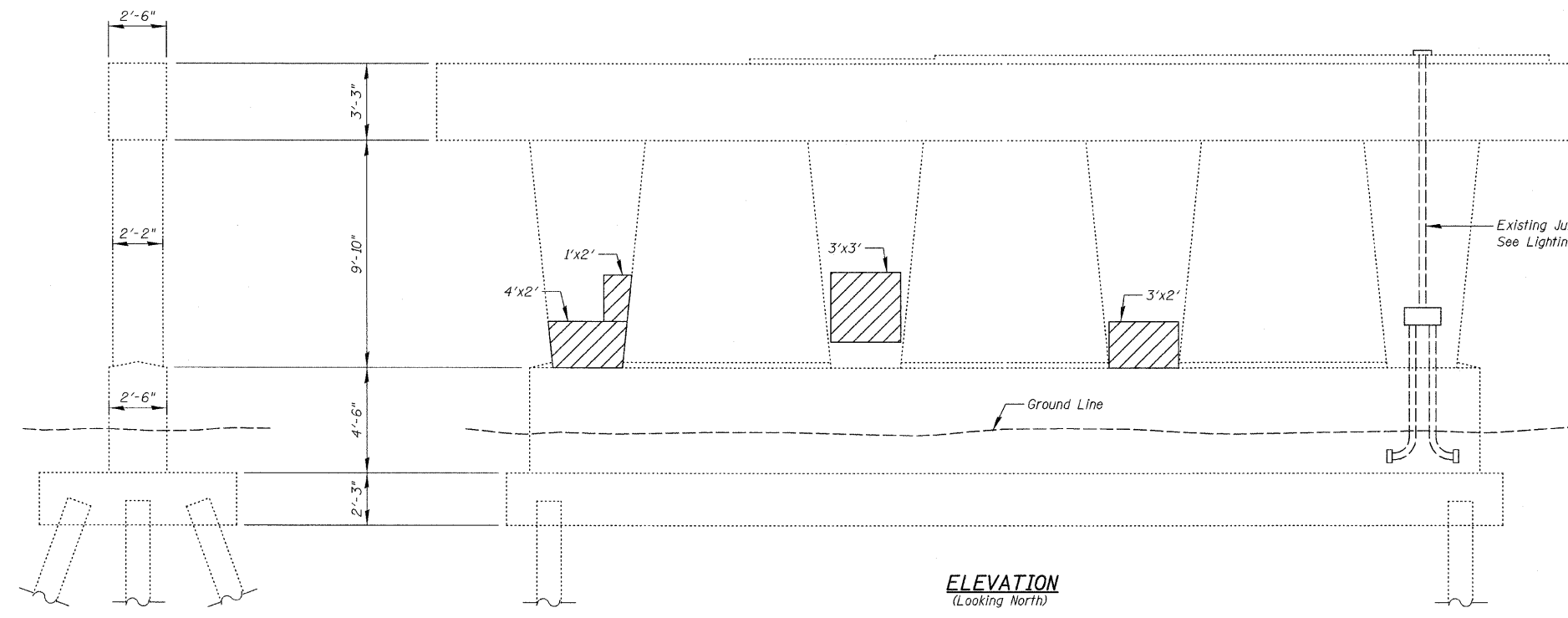
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE REMOVAL & REPAIR DETAILS FOR NORTH ABUTMENT
STRUCTURE NO. 016-2458**

SHEET NO. S19 OF S24 SHEETS

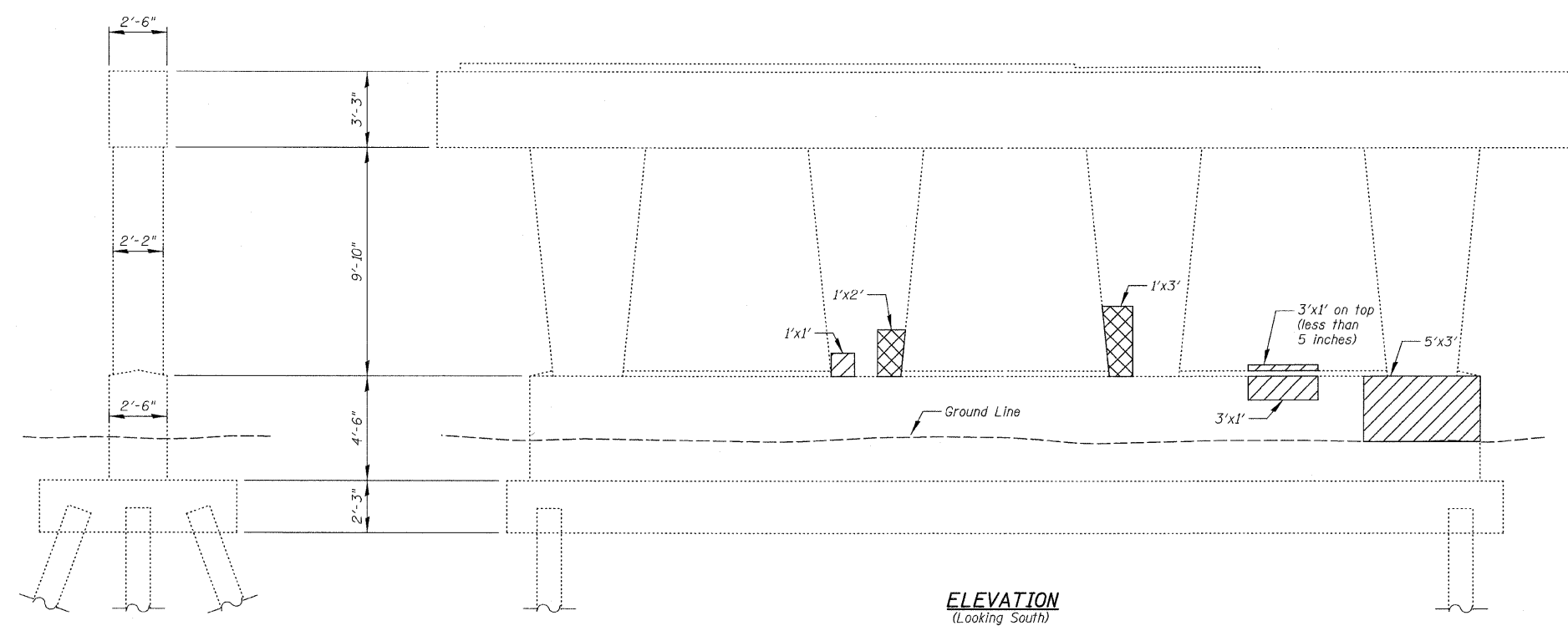
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	34
CONTRACT NO. 60P17			ILLINOIS FED. AID PROJECT	



ELEVATION
(Looking North)

LEGEND:

- Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)
- Structural Repair of Concrete
(Depth Greater than 5 Inches)



ELEVATION
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	47
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	5

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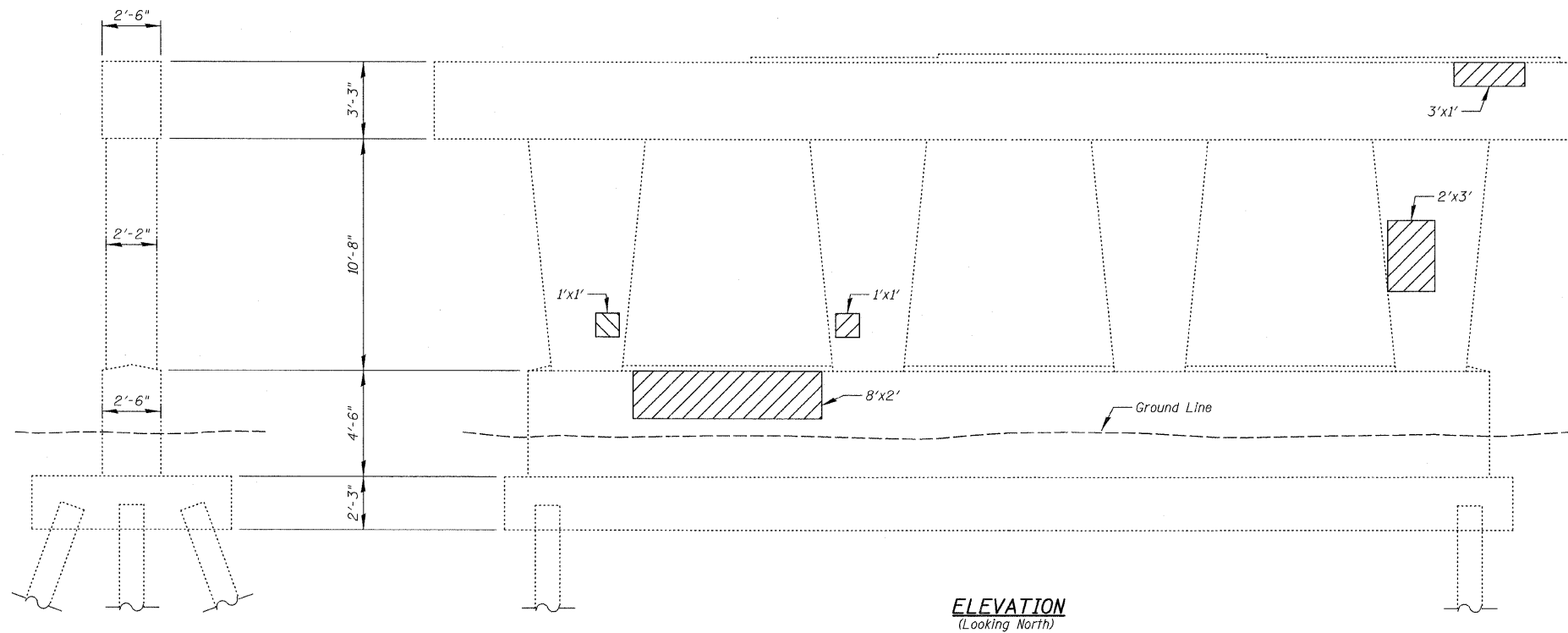


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	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

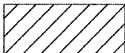
PIER 1 REPAIRS
STRUCTURE NO. 016-2458
SHEET NO. S20 OF S24 SHEETS

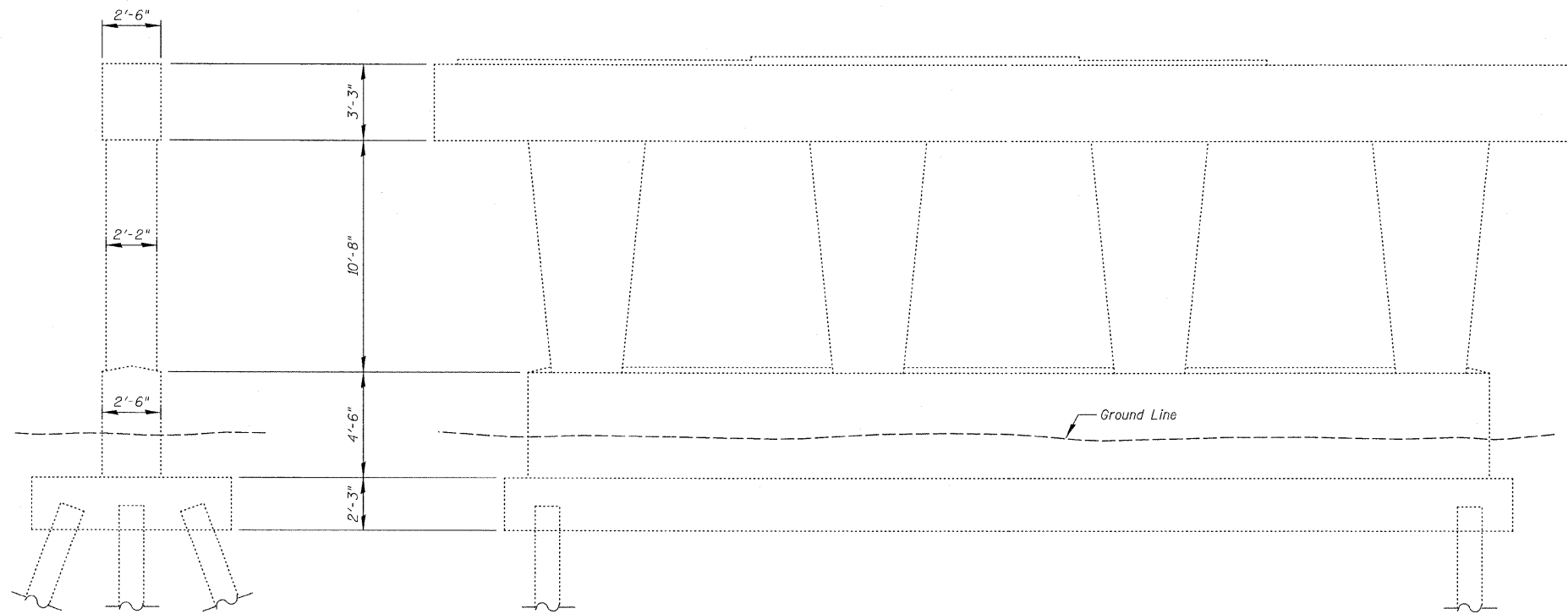
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	35
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking North)

LEGEND:

 Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)



ELEVATION
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	27

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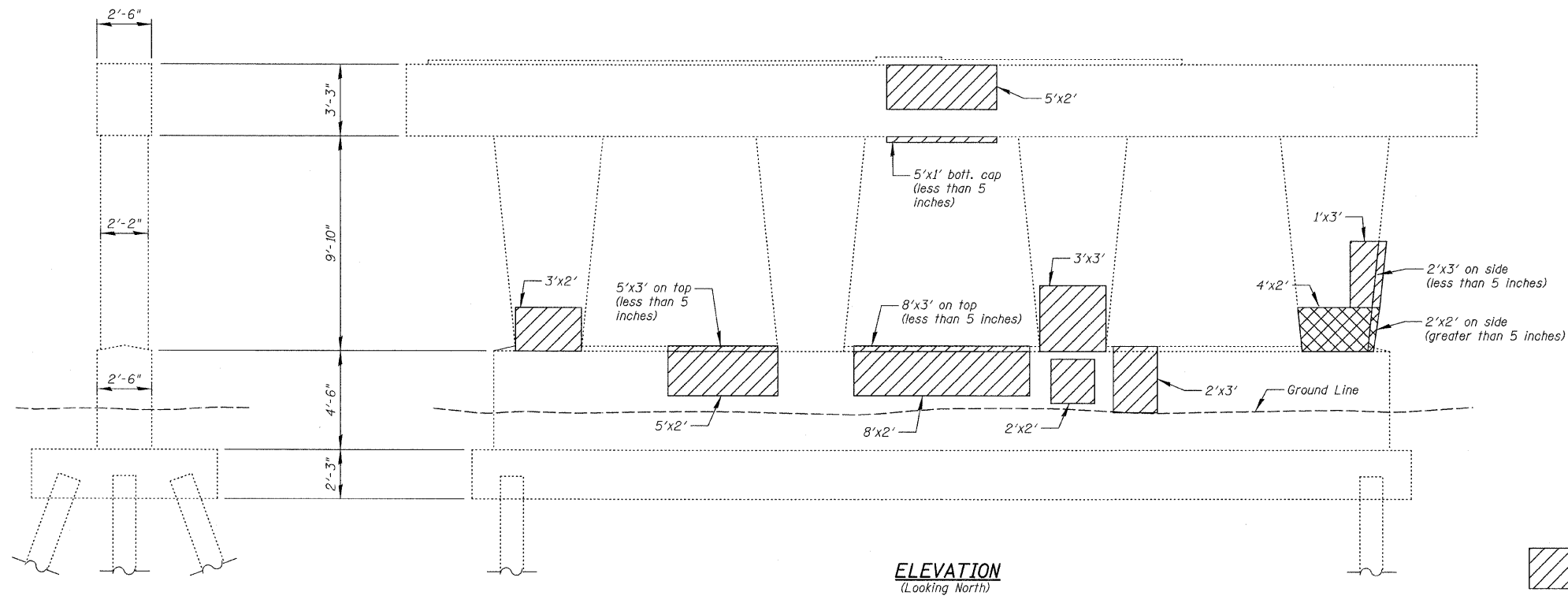
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PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 REPAIRS
STRUCTURE NO. 016-2458



SHEET NO. S21 OF S24 SHEETS

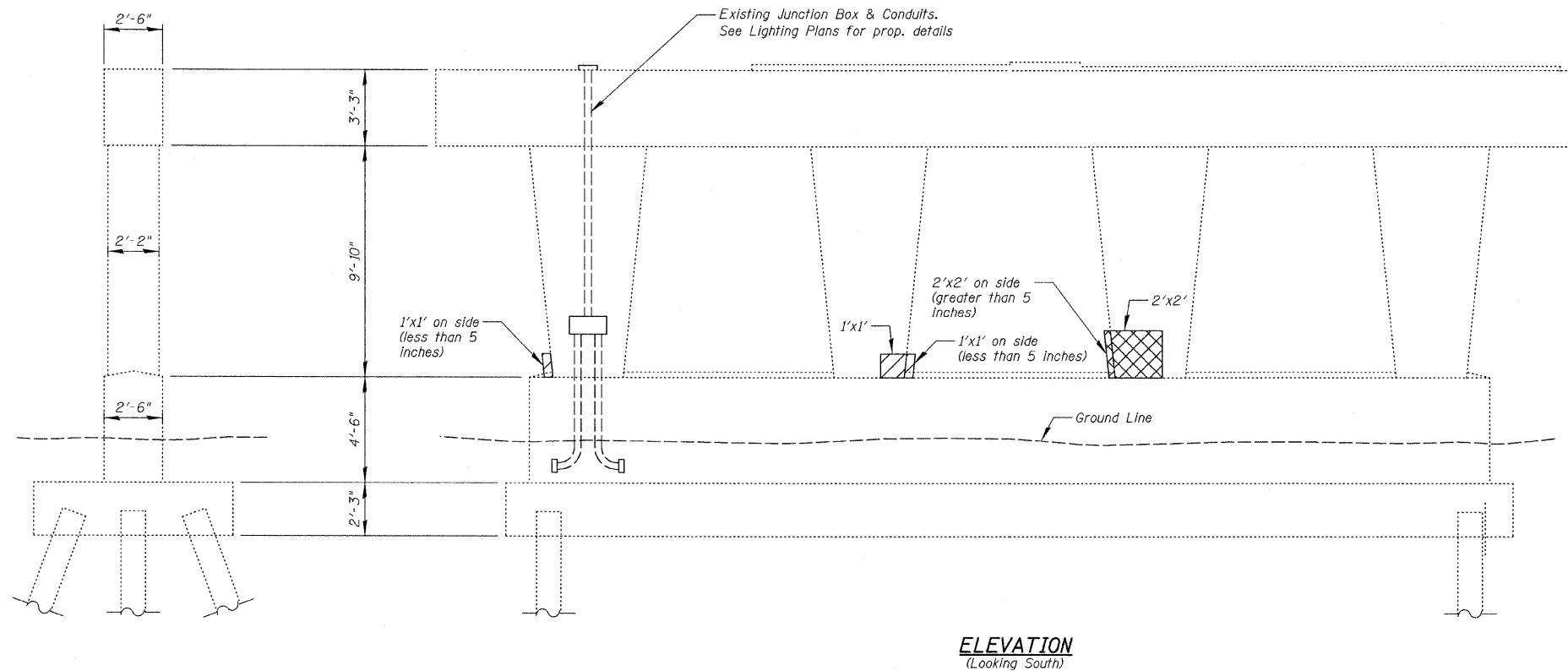
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	36
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking North)

LEGEND:

-  Structural Repair of Concrete
(Depth Equal to or less than 5 Inches)
-  Structural Repair of Concrete
(Depth Greater than 5 Inches)



ELEVATION
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or less than 5 Inches)	Sq. Ft.	117
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	20

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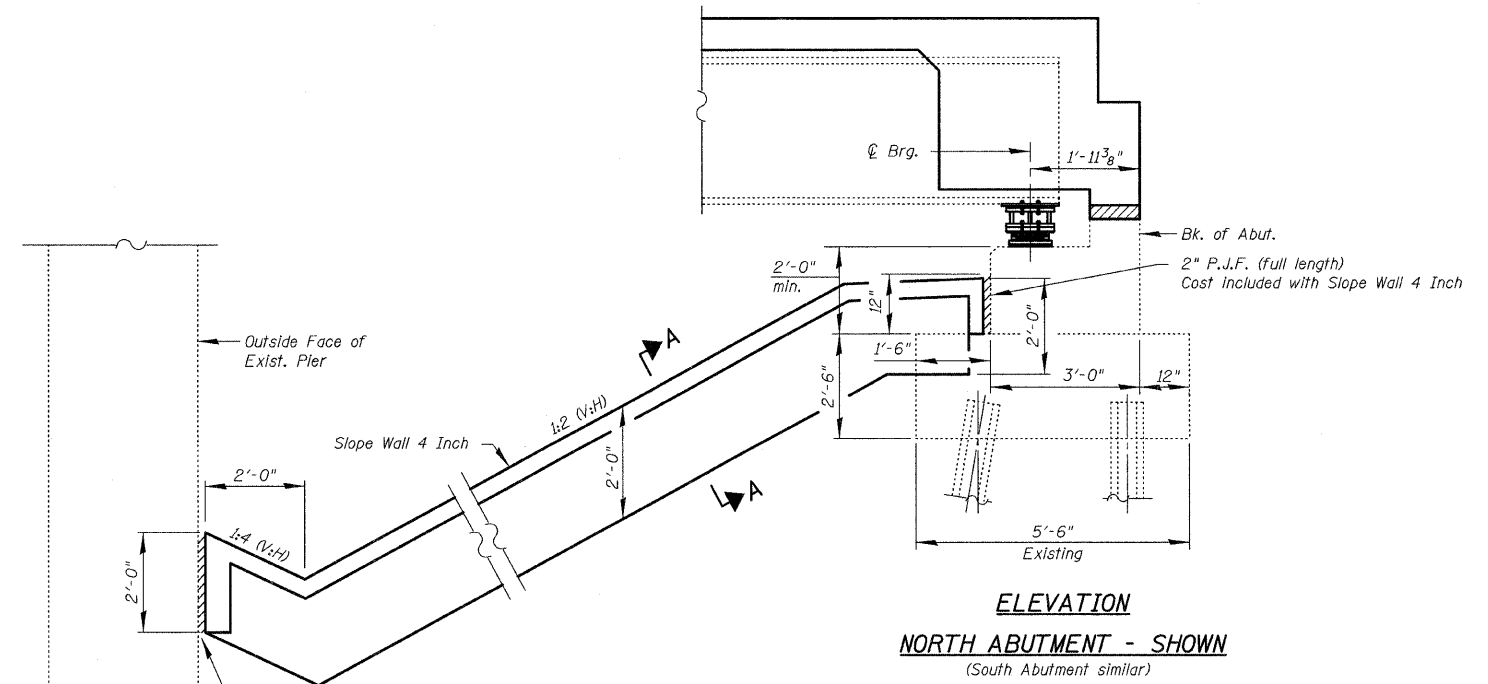
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PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 REPAIRS
STRUCTURE NO. 016-2458

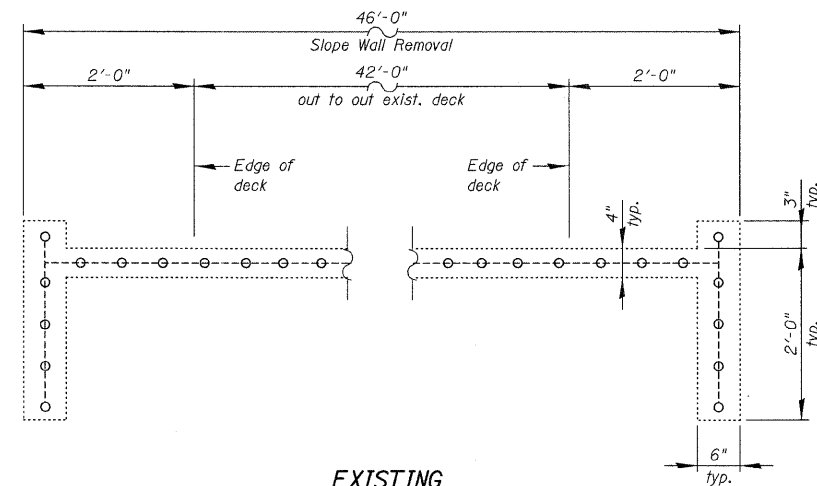
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F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 37
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				

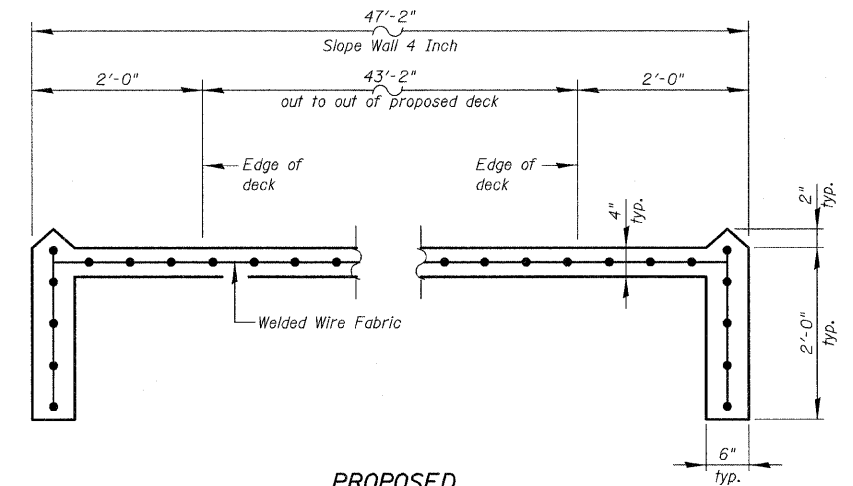


ELEVATION
NORTH ABUTMENT - SHOWN
 (South Abutment similar)

Note:
 Slope Wall shall be reinforced with
 Welded Wire Fabric, 6 in. x 6 in. - W4.0 x W4.0,
 weighing 58 lbs. per 100 Sq. Ft.



EXISTING
SECTION A-A



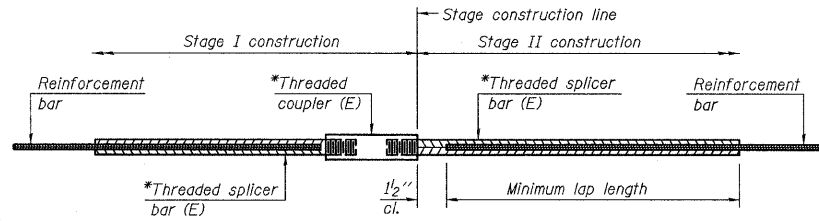
PROPOSED
SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Slope Wall Removal	Sq. Yd.	516
Slope Wall 4 Inch	Sq. Yd.	530

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<p>CHRISTIAN-ROGE & ASSOCIATES, INC.</p>	USER NAME = 100T	DESIGNED - J.C.N./B.N.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE WALL REMOVAL & REPLACEMENT STRUCTURE NO. 016-2458	F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 38	
	PLOT SCALE = 50.0000000' / IN.	DRAWN - F.M.	REVISED -			SHEET NO. S23 OF S24 SHEETS					
	PLOT DATE = 12/10/2011	DATE - DECEMBER 9, 2011	REVISED -			ILLINOIS FED. AID PROJECT					
							CONTRACT NO. 60P17				



STANDARD BAR SPLICER ASSEMBLY

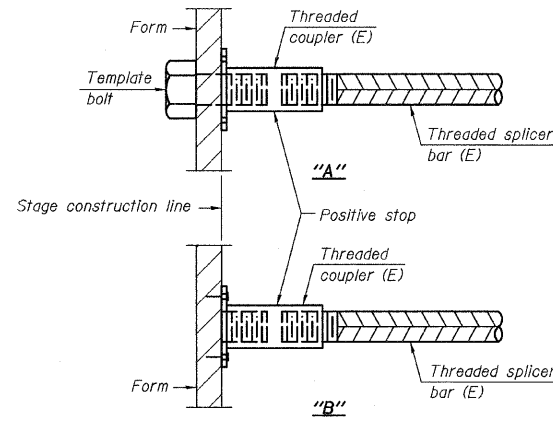
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

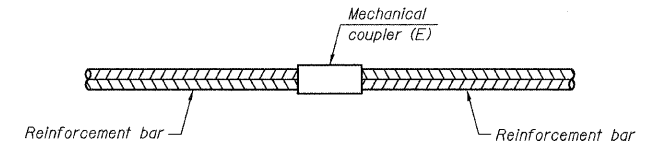
*Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



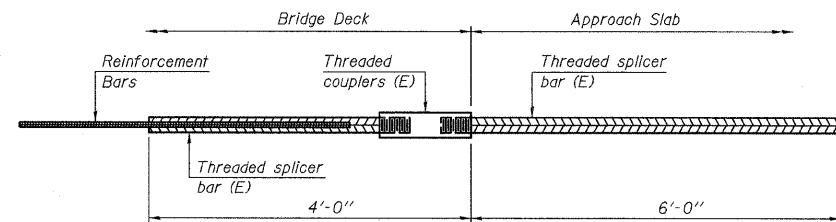
INSTALLATION AND SETTING METHODS

"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.



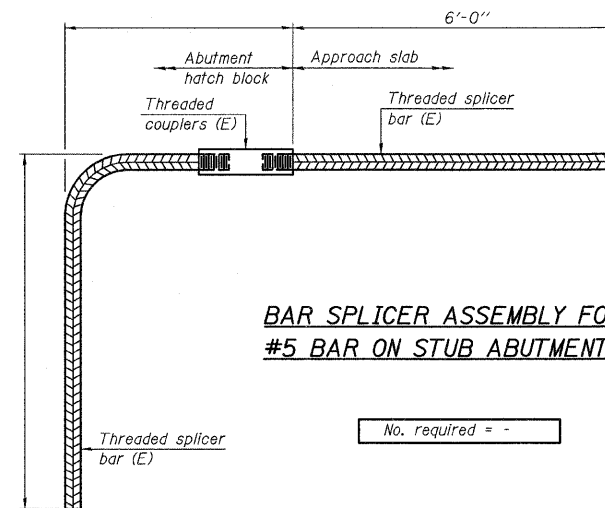
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 92



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = -

NOTES

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1 7-1-10



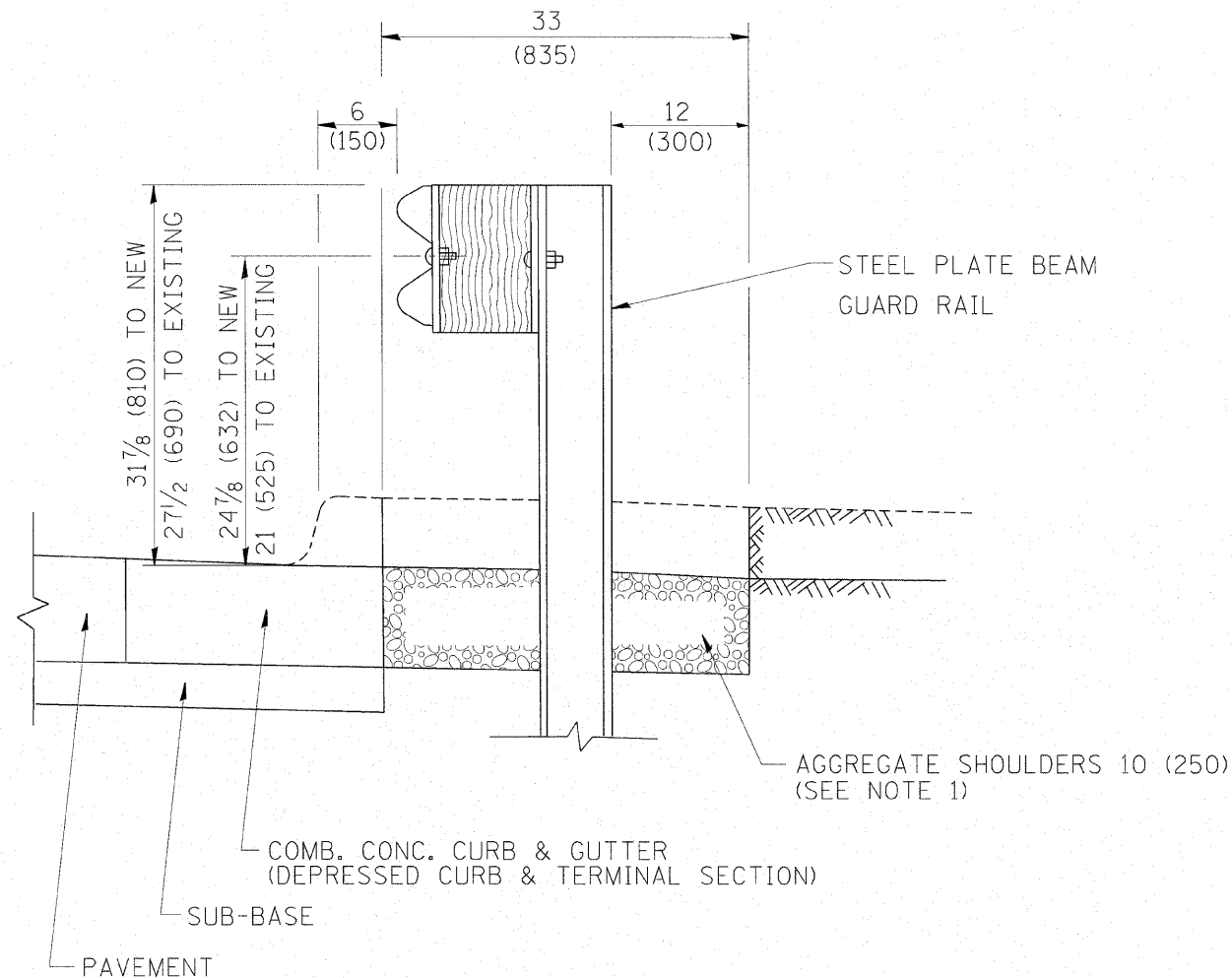
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PLOT DATE = 12/10/2011	DRAWN - F.M.	REVISED -
	DATE - DECEMBER 9, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-2458

SHEET NO. S24 OF S24 SHEETS

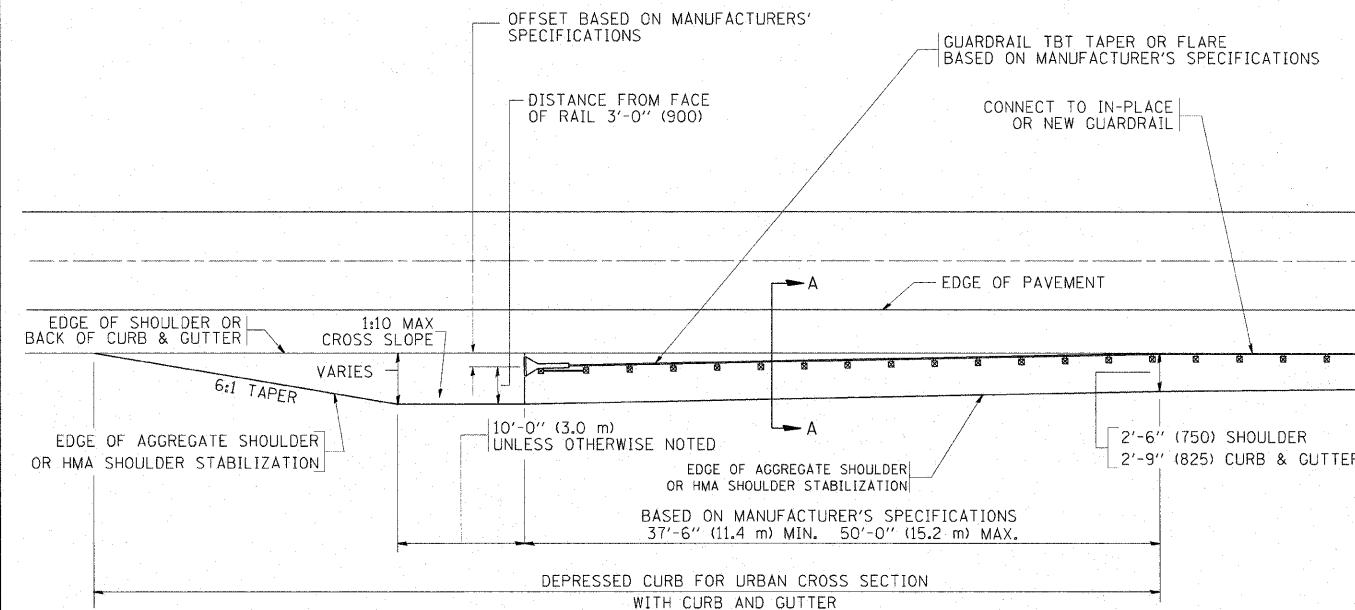
F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 39
				CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

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



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

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

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

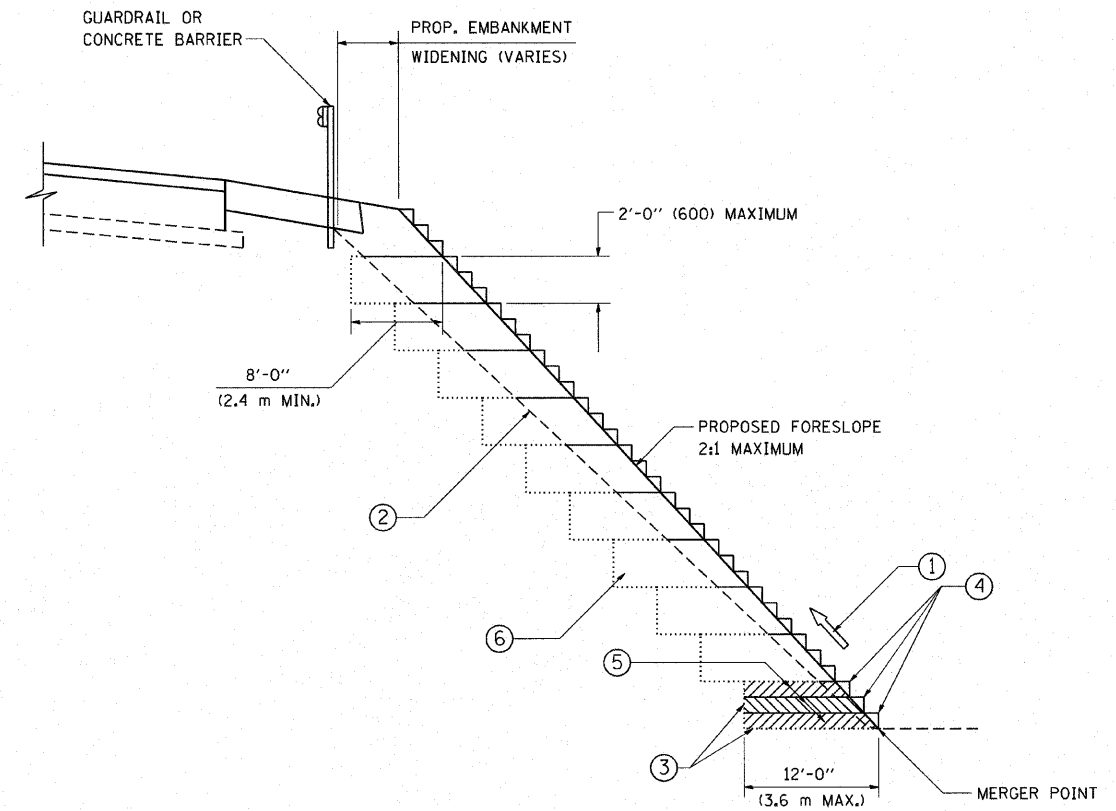
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	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	40
BD600-10 (BD 34)			CONTRACT NO. 60P17	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



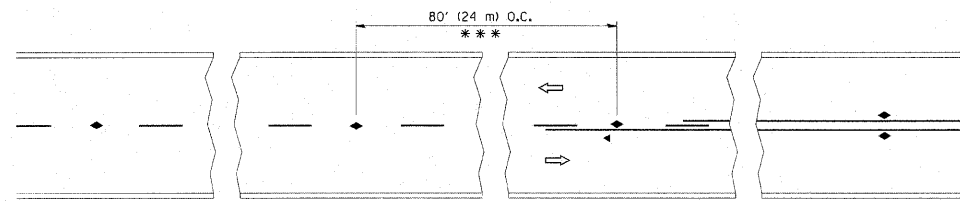
**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

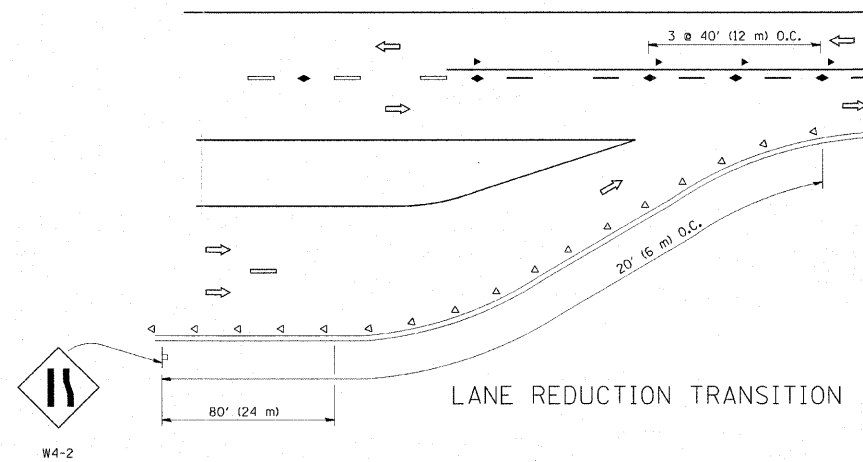
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

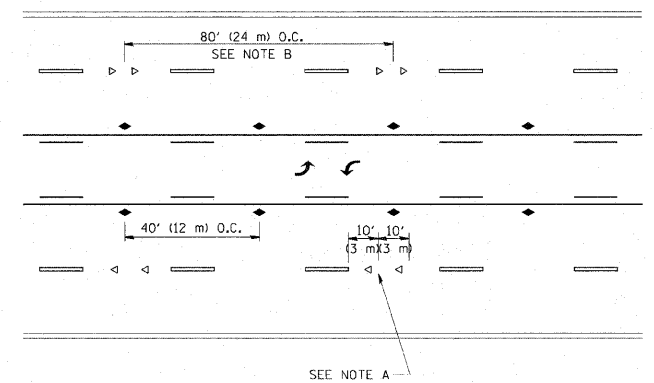
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	PLOT SCALE = 50.0000 ' / IN.	DRAWN - CADD	REVISED -		80	1415-803HB-R	COOK	51	41			
PLOT DATE = 1/4/2008	CHECKED - S.E.B.	REVISED -	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD-51 CONTRACT NO. 60P17				
	DATE - 06-16-04	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									



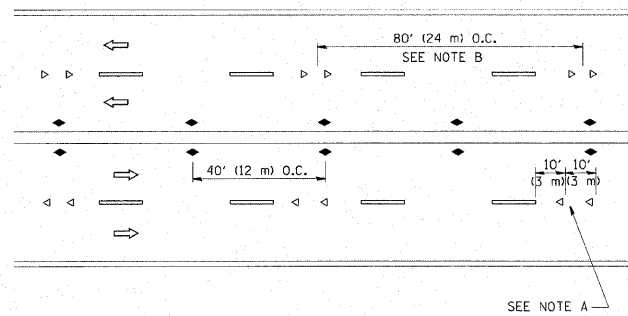
TWO-LANE/TWO-WAY



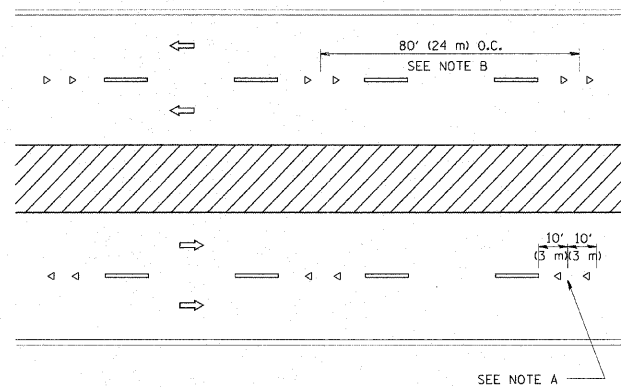
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

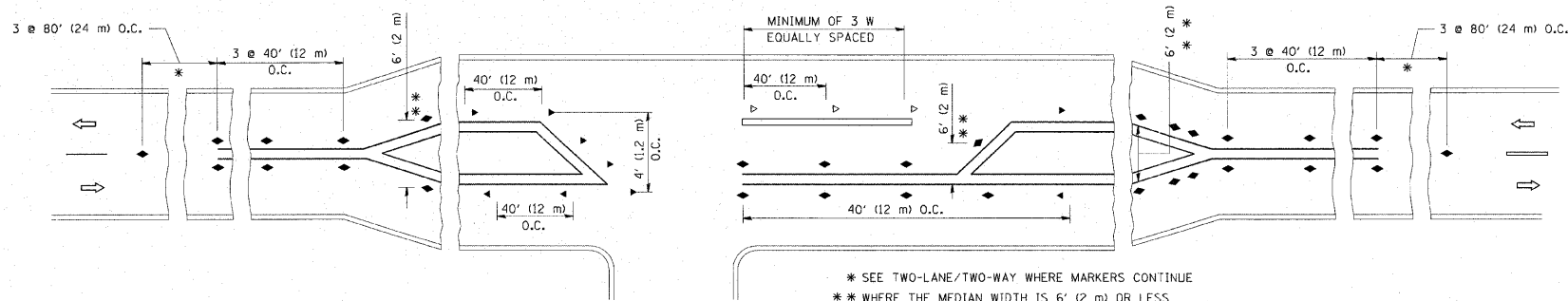
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

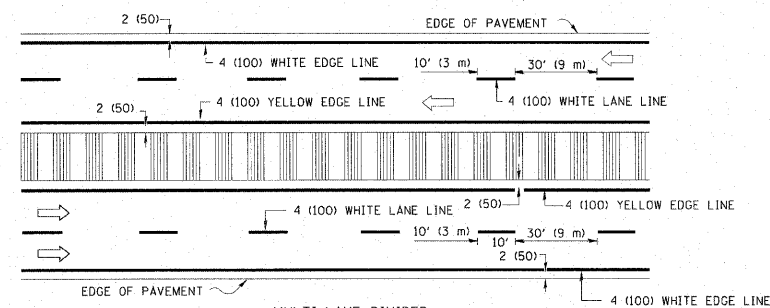
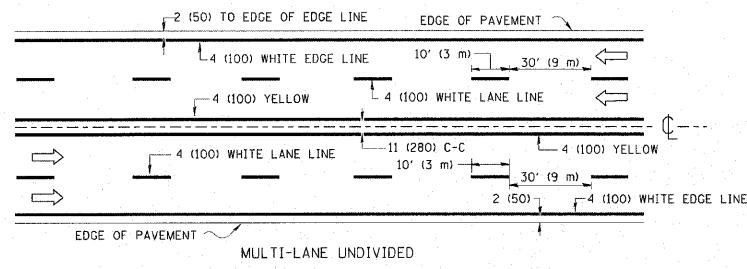
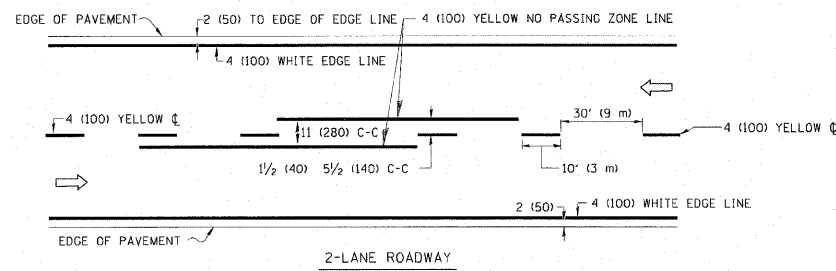
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
cd:\pw_work\lowdot\drivakosgn\20108315\td	ldgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50,000 / 1 IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

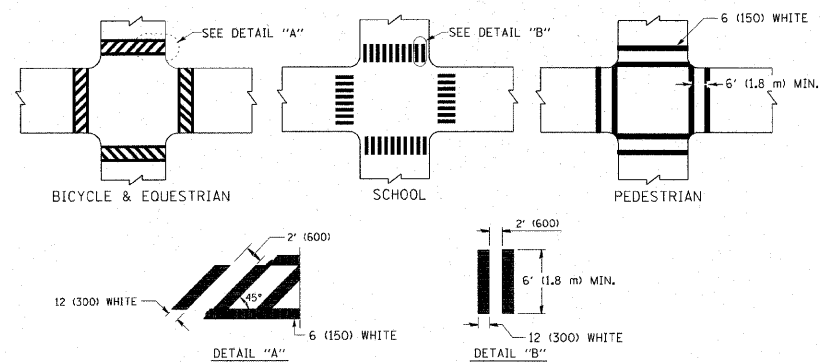
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	42
TC-11		CONTRACT NO. 60P17		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

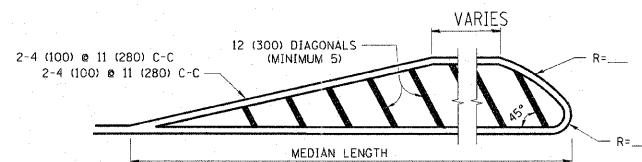
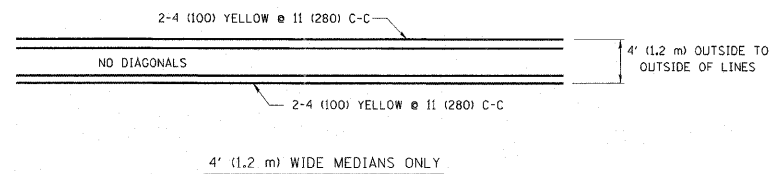


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



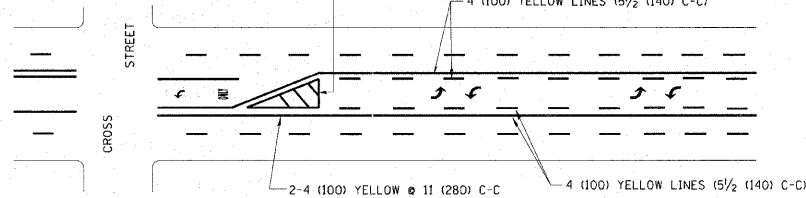
TYPICAL CROSSWALK MARKING



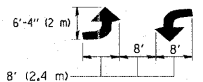
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

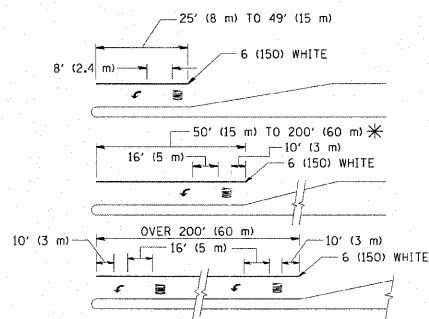


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

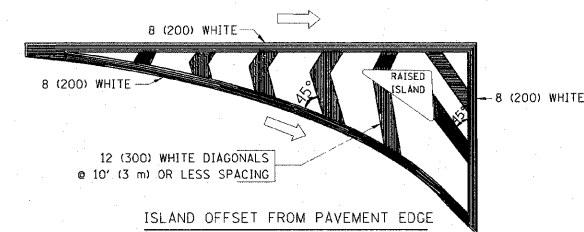


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

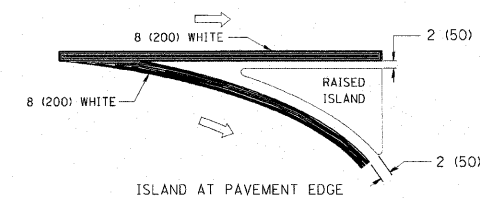
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

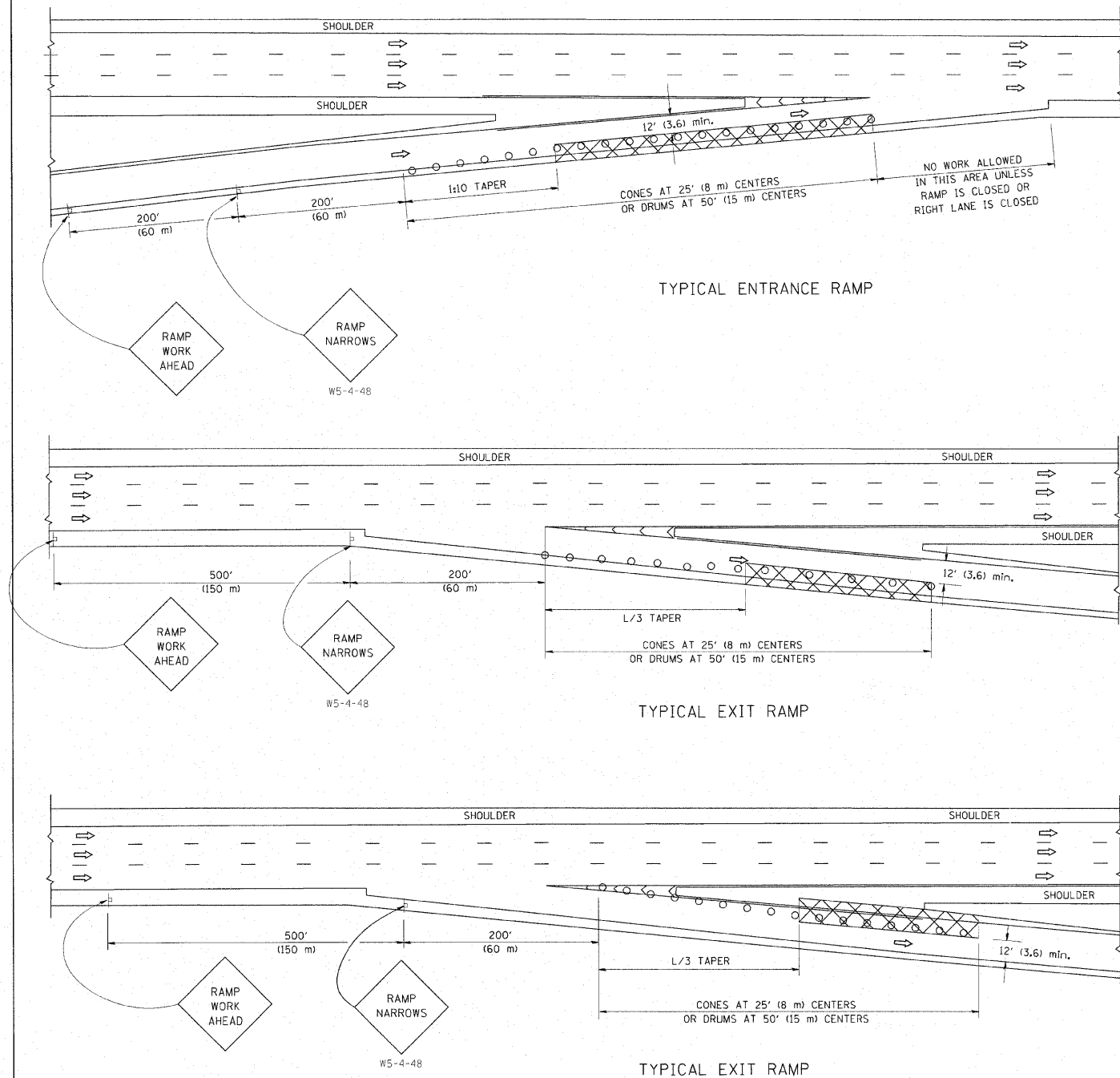
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T, RAMMACHER 10-27-94
es:\pw\work\pav\drivakosgn\0108315\tp	3.dgn	DRAWN -	REVISED -C, JUICIUS 09-09-09
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		80	1415-803HB-R	COOK	51	43
SCALE: NONE		TC-13		CONTRACT NO. 60P17		
SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		STA. TO STA.		

PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

TYPICAL EXIT RAMP

TYPICAL EXIT RAMP

SYMBOLS

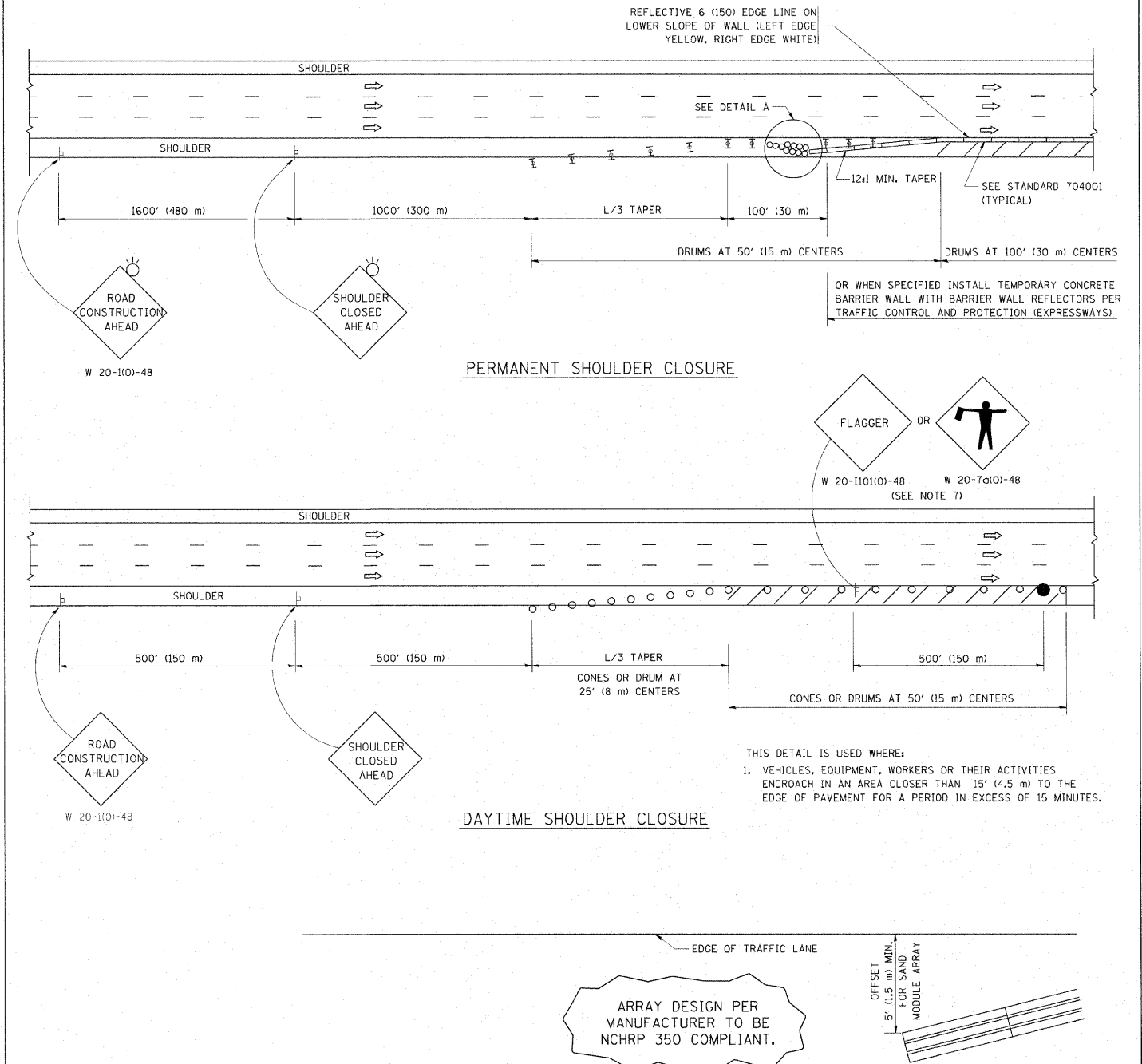
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

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

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE

DAYTIME SHOULDER CLOSURE

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

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

W 20-1101-48

W 20-101-48

W 20-1101101-48 OR W 20-70101-48
(SEE NOTE 7)

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

FILE NAME = W:\diststd\22x34\1017.dgn	USER NAME = leyso	DESIGNED - DRAWN - D.W.S.	REVISED - 04-03 REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A.I. RTE. 80	SECTION 1415-803HB-R	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 44
PLOT SCALE = 50.0000' / IN.	PLOT DATE = 1/26/2010	CHECKED - DATE - 11-96	REVISED - S.P.B. 01-07 REVISED - S.P.B. 12-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-17		CONTRACT NO. 60P17		
							FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT			

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

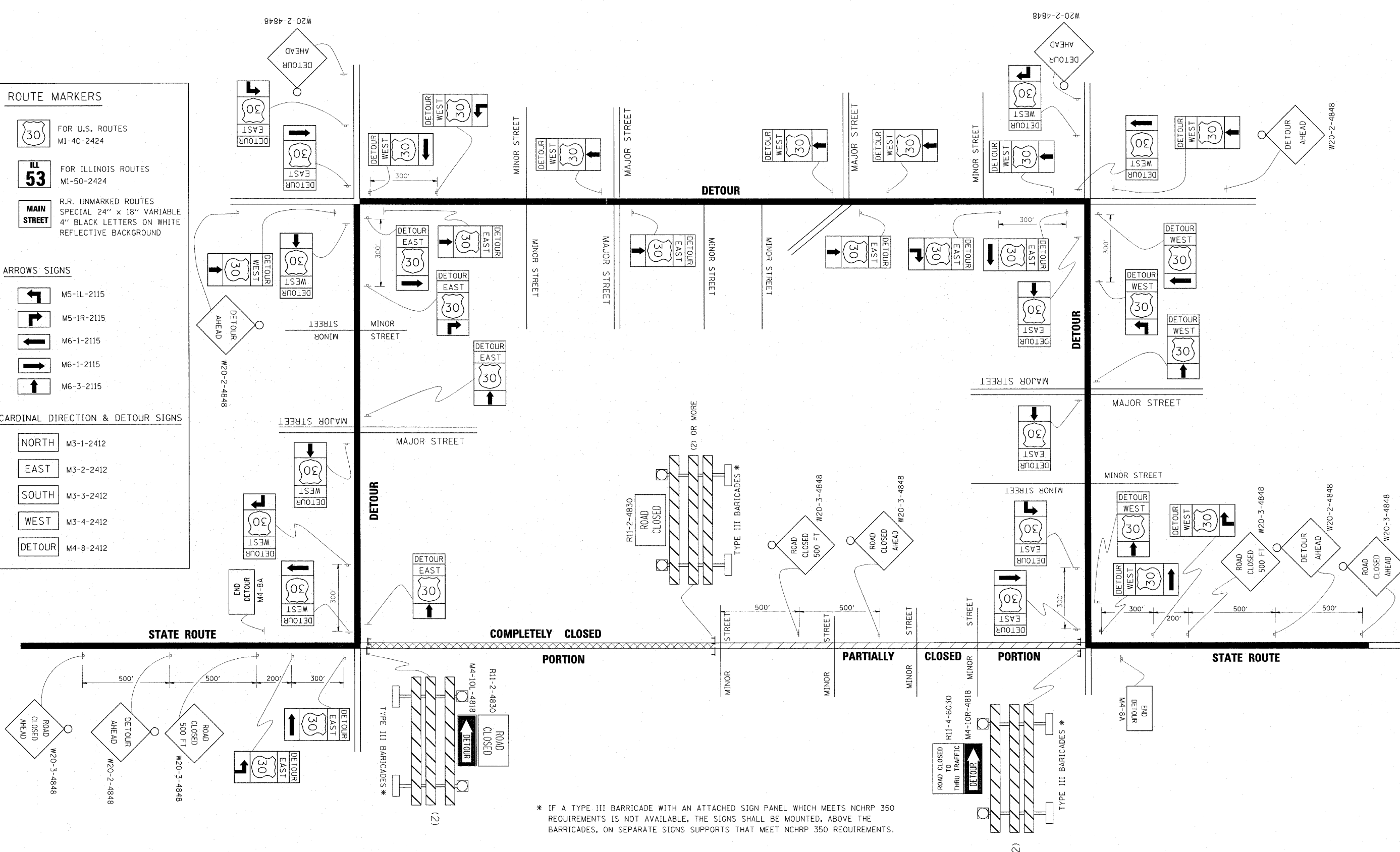
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

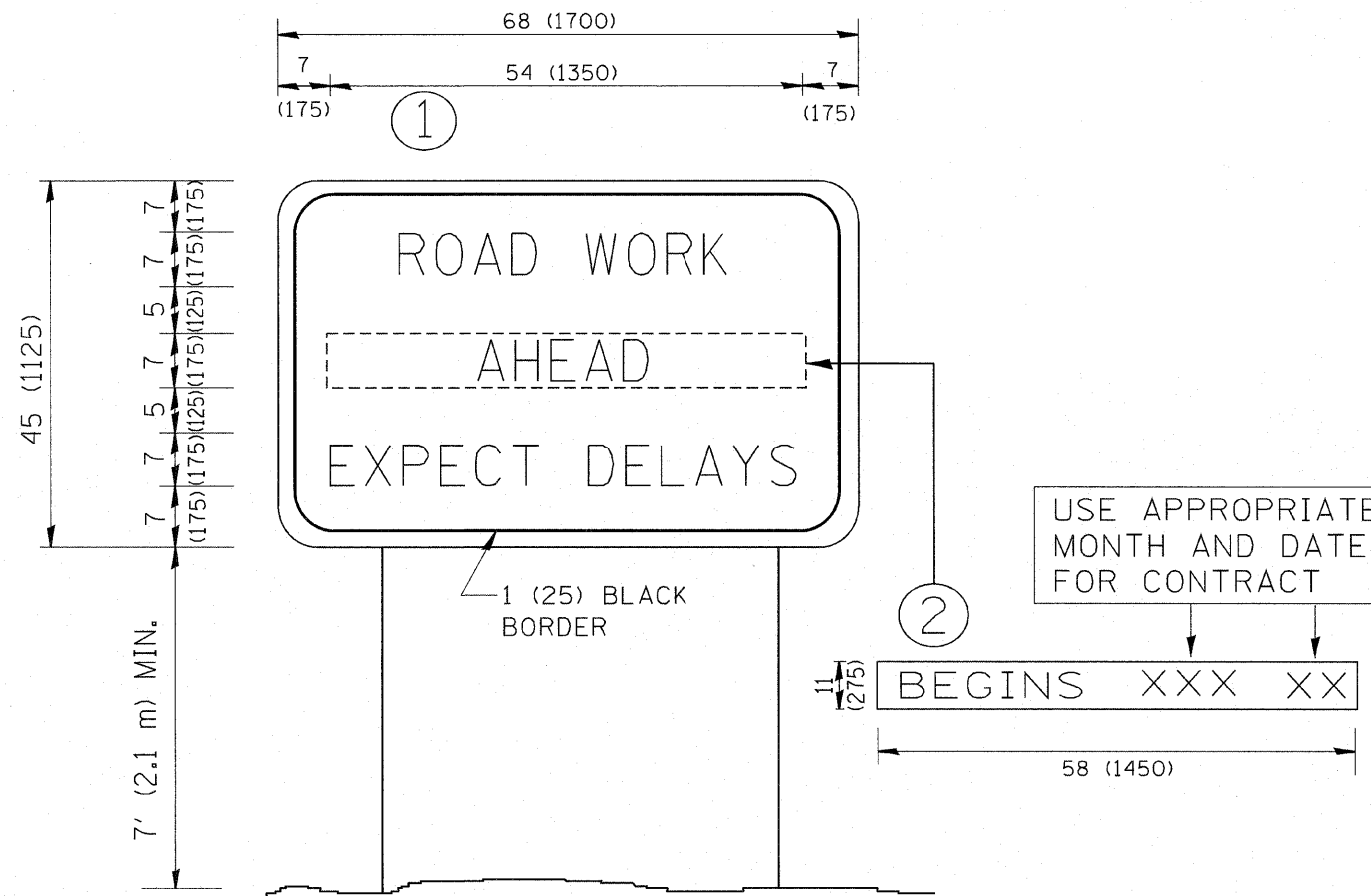
WEST M3-4-2412

DETOUR M4-8-2412



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

FILE NAME =	USER NAME = d-rivakosgn	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\p\work\k\PWIDOT\DRIVAKOSGN\d1188315\221.dgn		DRAWN -	REVISED - R. BORO 09-14-09		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	80	1415-803HB-R	COOK	51	45
		CHECKED -	REVISED -					TO STA.		TC-21			
		DATE	REVISED -							CONTRACT NO. 60P17			
					FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT								



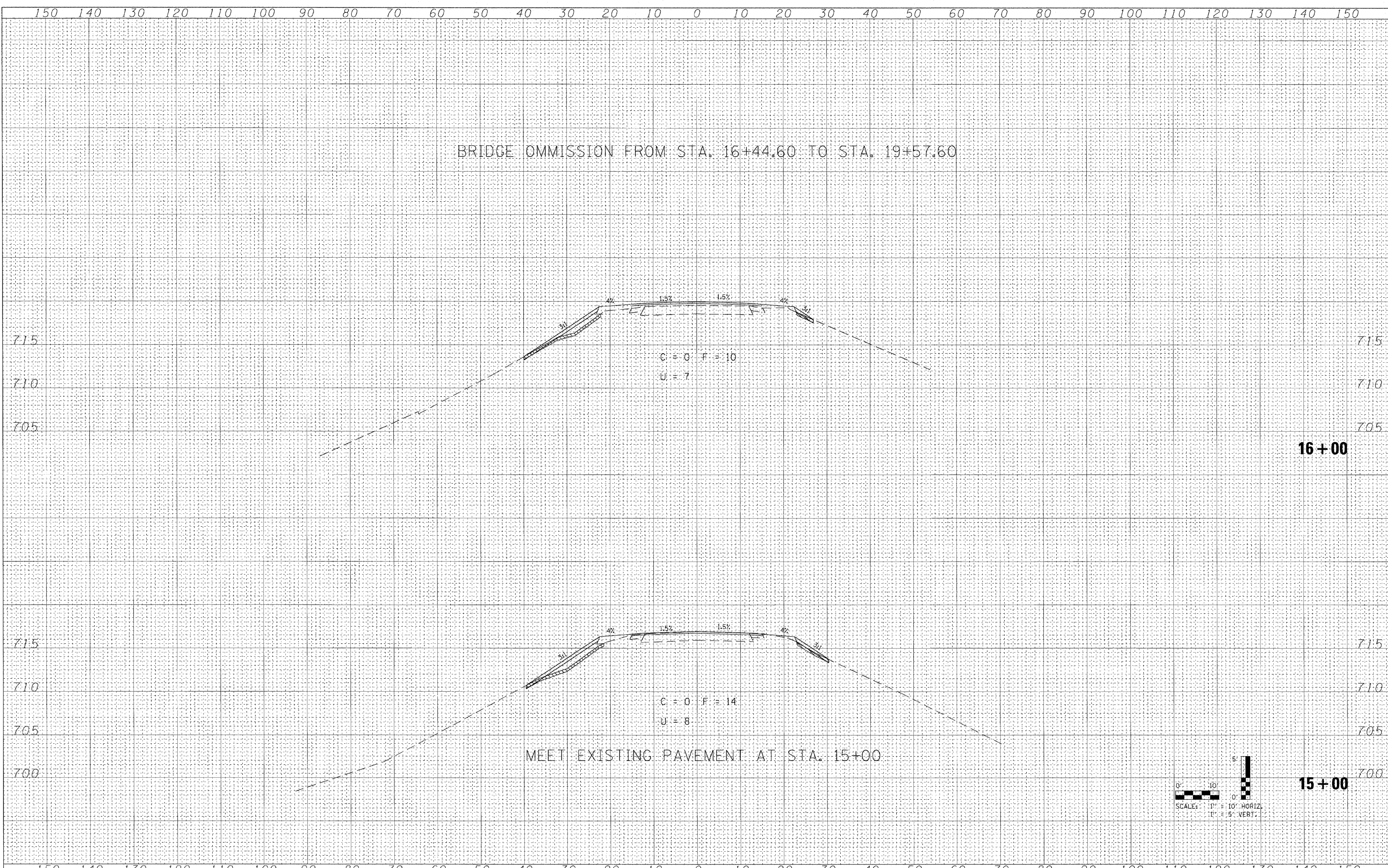
NOTES:

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 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = goglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	80	1415-803HB-R	COOK	51	46
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		TC-22		CONTRACT NO. 60P17		
		DATE -	REVISED - C. JUCIUS 01-31-07									

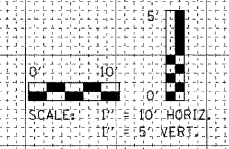
BRIDGE OMISSION FROM STA. 16+44.60 TO STA. 19+57.60



C = 0 F = 10
U = 7

C = 0 F = 14
U = 8

MEET EXISTING PAVEMENT AT STA. 15+00



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	

FILE NAME =	USER NAME = IDOT
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PLOT SCALE = 10.0000' / IN.	
PLOT DATE = 11/17/2011	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

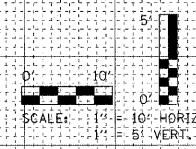
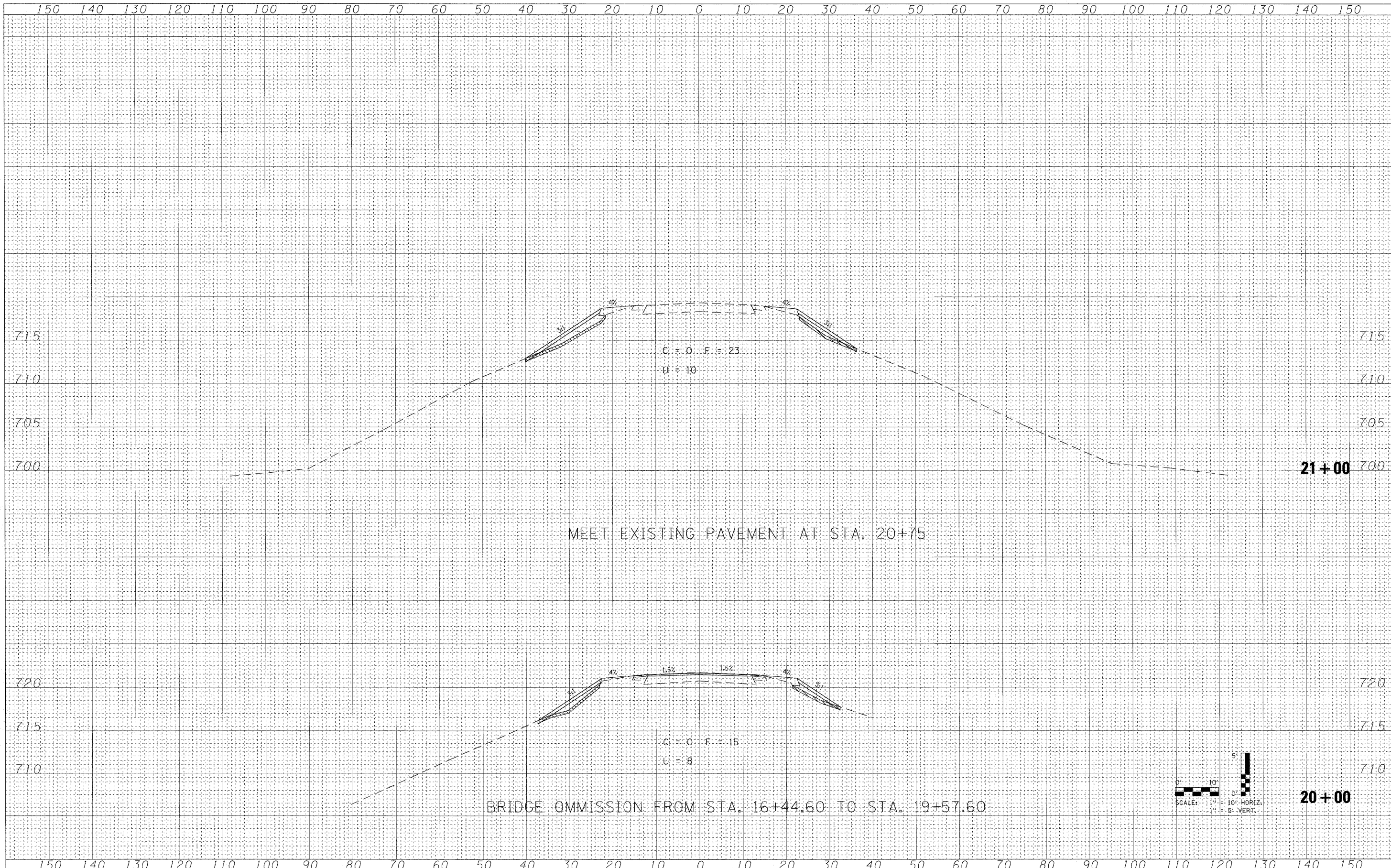
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS CENTRAL AVENUE				
SCALE:	SHEET NO.	OF	SHEETS	STA. 15+00 TO STA. 16+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	48
				CONTRACT NO. 60P17
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

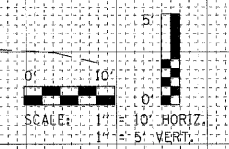
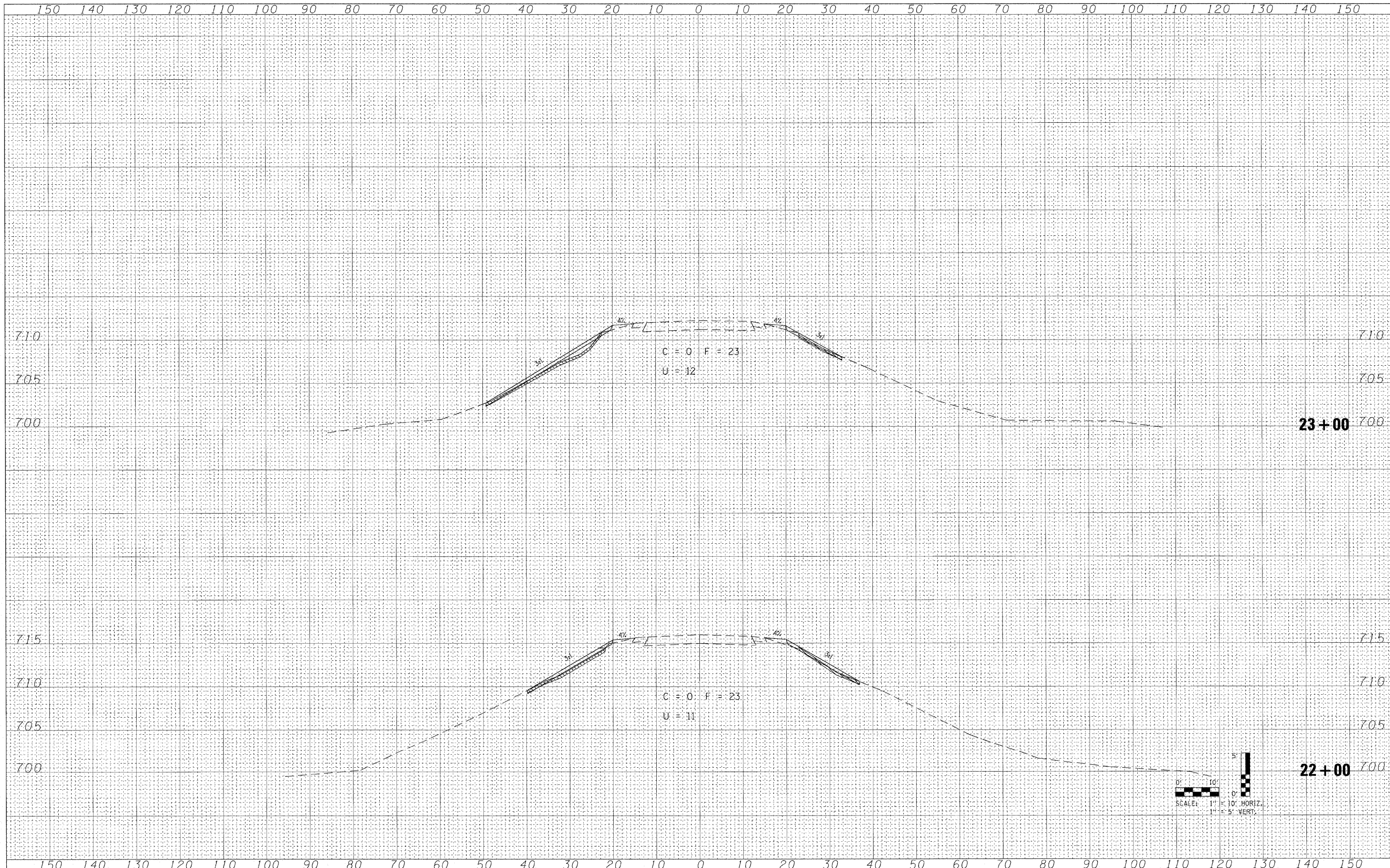
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = 1001	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CENTRAL AVENUE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
:\102909.Centr\ave\CADD Sheets\DI60P17-sht-xsec.dgn		DRAWN -	REVISED -		80	1415-803HD-R	COOK	51	49			
PLOT SCALE = 10,0000 ' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 20+00 TO STA. 21+00			CONTRACT NO. 60P17				
PLOT DATE = 11/17/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

DATE	
BY	
SHRVED	
SURVEY	
NOTE BOOK	
NO.	
TEMP. DATE	
AREAS CHECKED	
AREAS CHECKED	

DATE	
BY	
SHRVED	
SURVEY	
NOTE BOOK	
NO.	
TEMP. DATE	
AREAS CHECKED	
AREAS CHECKED	



FILE NAME =	USER NAME = IDOT	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CENTRAL AVENUE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I:\102909_Central.Ave\CADD Sheets\0160P17-sh1.dgn		DRAWN -	REVISED -		80	1415-803HB-R	COOK	51	50				
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PLOT DATE = 11/17/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

