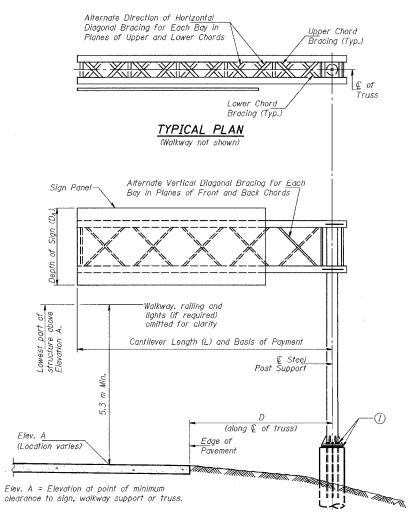


Walkway Grating, Walkway Supports, Handrail and Lighting are not included in this contract.



TYPICAL ELEVATION Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these attach temporary blank sign panels or other bracing to the structure until permanent sians are installed.

		٦	NUMBER	REVISION	DATE
DESIGNED	RJW	2004			
CHECKED	KJN	EXAMINED			
DRAWN	RJ₩	ENGINEER OF STRUCTURAL SERVICES PASSED			
CHECKED	KJN	ENGINEER OF BRIDGES AND STRUCTURES			
SC-S-1(M)	10/1/200				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Structure Number	Station	Design Truss Type	Cantilever Length (L)(m)	Elev. A	Dim. D (m)	D s (m)	Total Sign Area (sq m)
4C072I074L089.3	143+740	II-C-S	7.877	189.708	3.677	2.591	10.88

Truss Type Maximum Sian Area Maximum Length

1	Truss Type	Maximum Sign Area	Maxillialli Leligili	_
[I-C-S	15.8 m ²	7.6 m	1
[II-C-S	31.6 m ²	9.2 m]
	III-C-S	37.2 m²	12.2 m]@ Upper Chord
_				- Fe Opper Chord
+				
		1.44 kPa on		
4.6 m (Max.)	Max	kimum Sign Area	0.5 kPa	
9.4		=	0.5 %/ 0	
	l	(See Table)		
1				×
				Max.
	Mc	aximum Length (See	Table)	8
	•		111	2.5
			lil	9,
			111	
			<u>##</u> .	
				1
				Bottom of
				Base Plate
				The state of the s
			ليها	eulll -

DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

(1) After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 270 N · m. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Note: Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

TOTAL BILL OF MATERIAL CANTILEVER STEEL TRUSS

ITEM	UNIT	TOTA
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE I-C-S (0.61M x 1.37M)	m	
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE II-C-S (0.90M x 1.68M)	m	7.88
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-S (0.90M x 2.14M)	m	
OVERHEAD SIGN WALKWAY-CANTILEVER TYPE S	m	
DRILLED SHAFT CONCRETE FOUNDATIONS	m3	11.08

2 See Special Provision "Overhead Sign Structures-Special".

(3) Quantity includes median foundation. See Signing Sheet 69 of 83.

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FAI74	*	PEORIA	1360	1308	
STA.	<u> </u>	TO STA.			
F.H.W.A. REGION		ILLINOIS	PROJECT		
*(72-7)R-3		CONTRA	CT NO.	68200	

GENERAL NOTES

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

MEASUREMENTS: All dimensions are in milimeters (mm) except as noted.

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

WIND LOADING: 1.44 kPa normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 2,2 kN, concentrated live load.

ALLOWABLE UNIT STRESSES: Structural Steel -138 MPa Reinforcing Steel - 138 MPa

Class SI Concrete - 10 MPa

Allowable unit stresses due to wind load in combination with other forces, are increased 1.33.

MINIMUM CLEARANCE: Vertical Roadway Clearance = 5.3 m (All Obstructions)

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

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a Minimum yield of 241 MPa., or A500 Grade B or C with a minimum yield of 319 MPa. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness areater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 250, Gr. 345 or Gr. 345W**. Stainless steel for handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum

FASTENERS FOR STEEL TRUSSES: All bolts noted as "high strength" (HS) must satisfy the requirements of AASHTO MI64 (ASTM A325M), ASTM A449, or approved alternate, and must have matching lock nuts and washers. All bolts, u-bolts, eye bolts, lock nuts and washers not required to be high strength must satisfy the requirements of ASTM A307. All bolts, u-bolts, eye bolts, lock nuts and washers must be hot dip galvanized per AASHTO M232. All lock nuts must have nylon or steel inserts. High strength bolt and stud installation shall conform to Article 505.04(f)(2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational Capacity ("ROCAP") testing of bolts will not be required.

longitudinal Charpy V-Notch (CVN) energy of 20 J at 5° C. (Zone 2) before galvanizing.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication according to AASHTO M111.

PAINTING: All steel members shall be painted according to the Special Provision "Surface Preparation and Painting of Galvanized Steel Traffic Structures". Cost Included in "Overhead Sian Structure . . . ".

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 380 (55) with a minimum Charpy V-Notch (CVN) energy of 20 J at -12° C.

CONCRETE SURFACES: All concrete surfaces above an elevation 150 mm below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer according to the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated according to the Standard Specifications.

**If M270 Gr. 345W steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for adjugation and welding.

SIGNING SHEET 60 OF 83

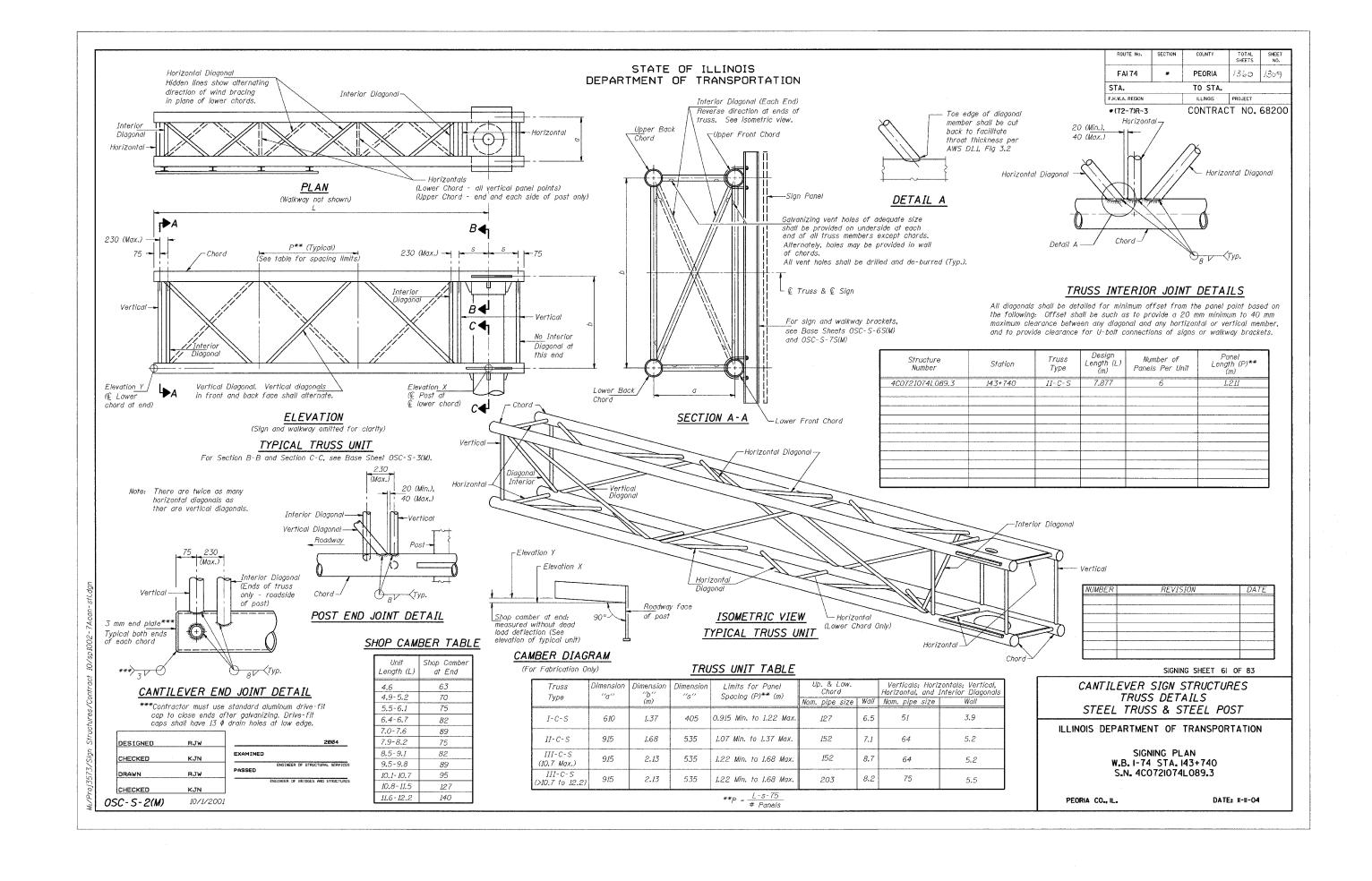
CANTILEVER SIGN STRUCTURES GENERAL PLAN & ELEVATION STEEL TRUSS & STEEL POST

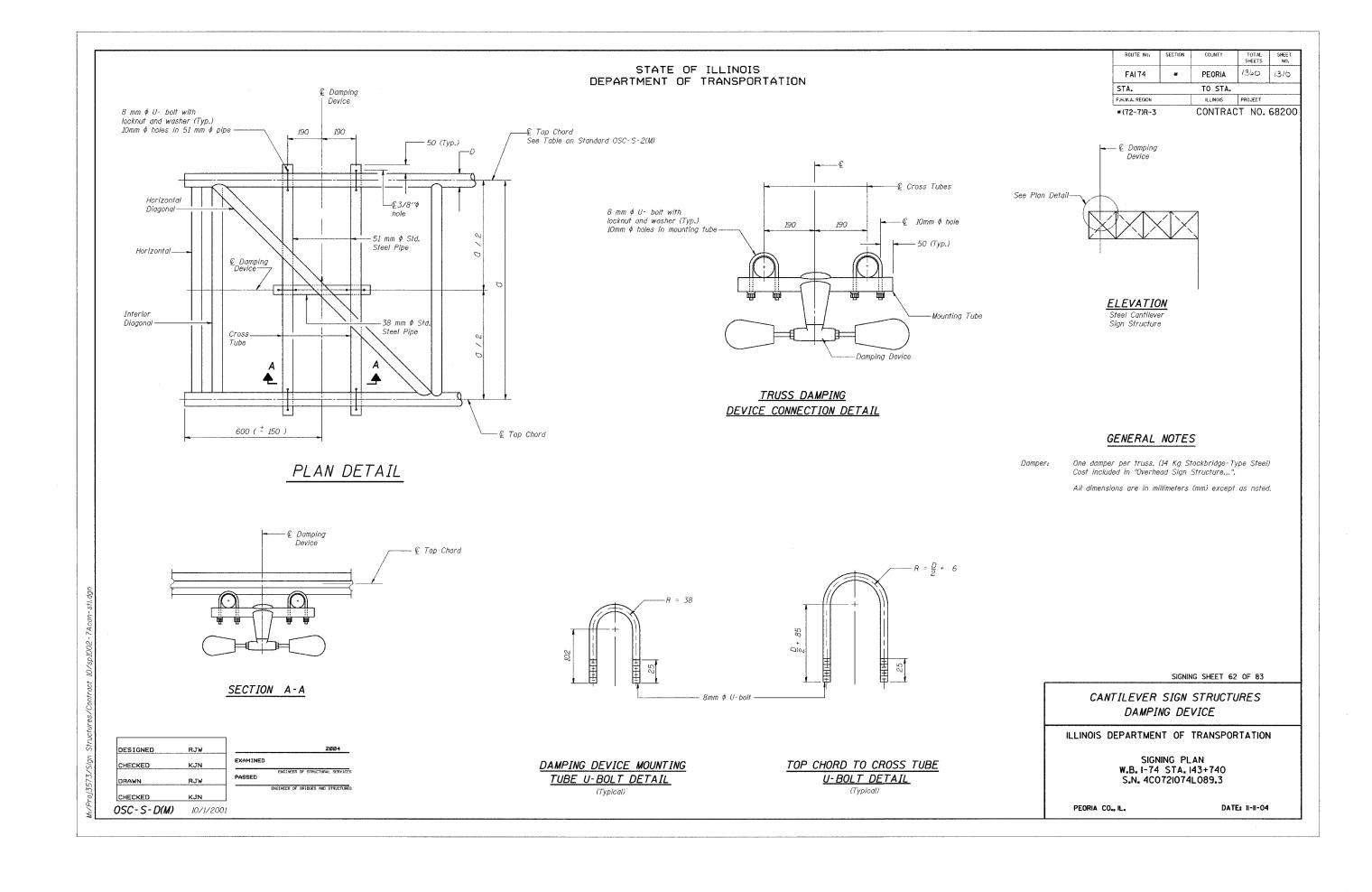
ILLINOIS DEPARTMENT OF TRANSPORTATION

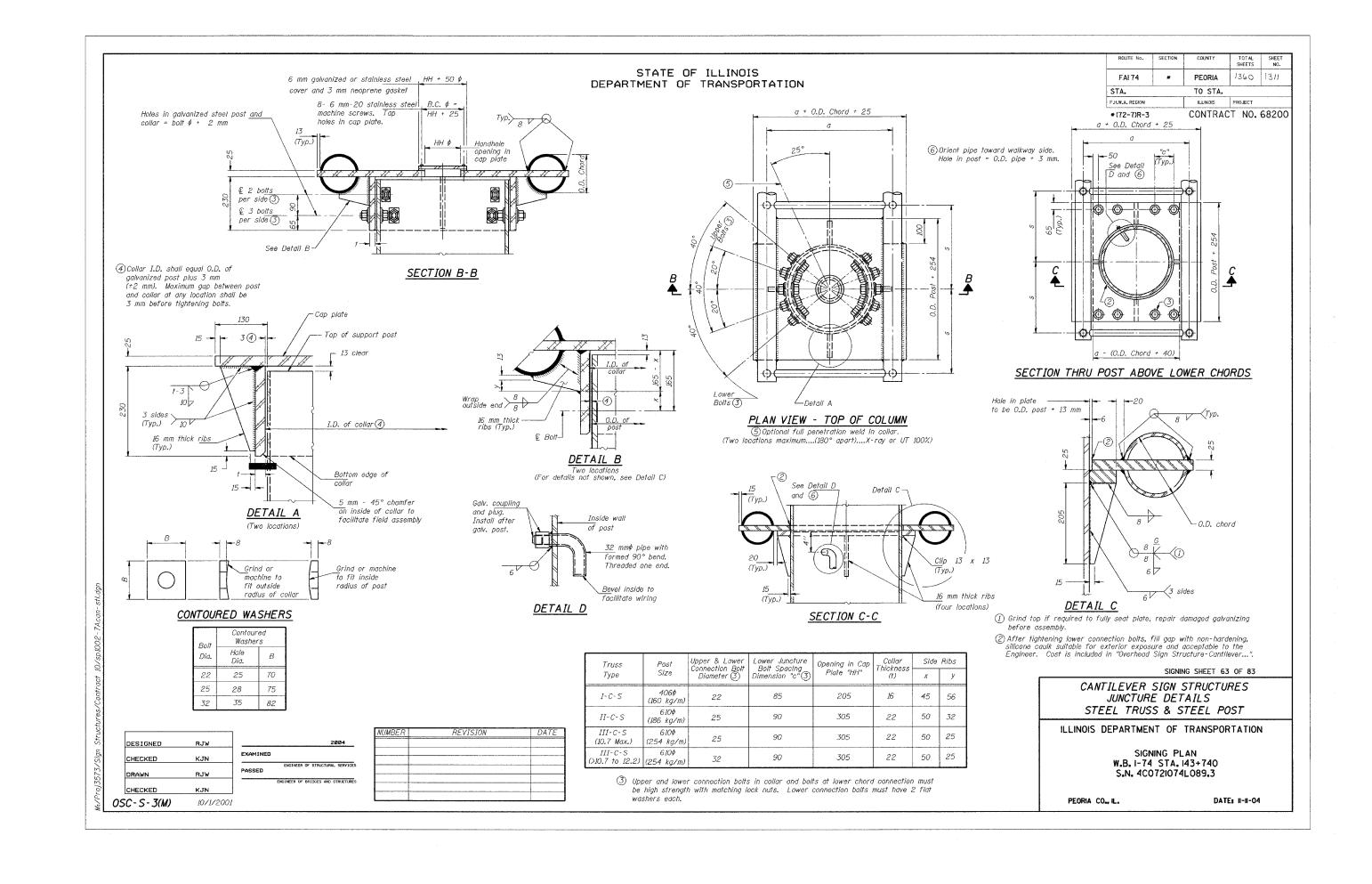
SIGNING PLAN W.B. 1-74 STA. 143+740 S.N. 4C072I074L089.3

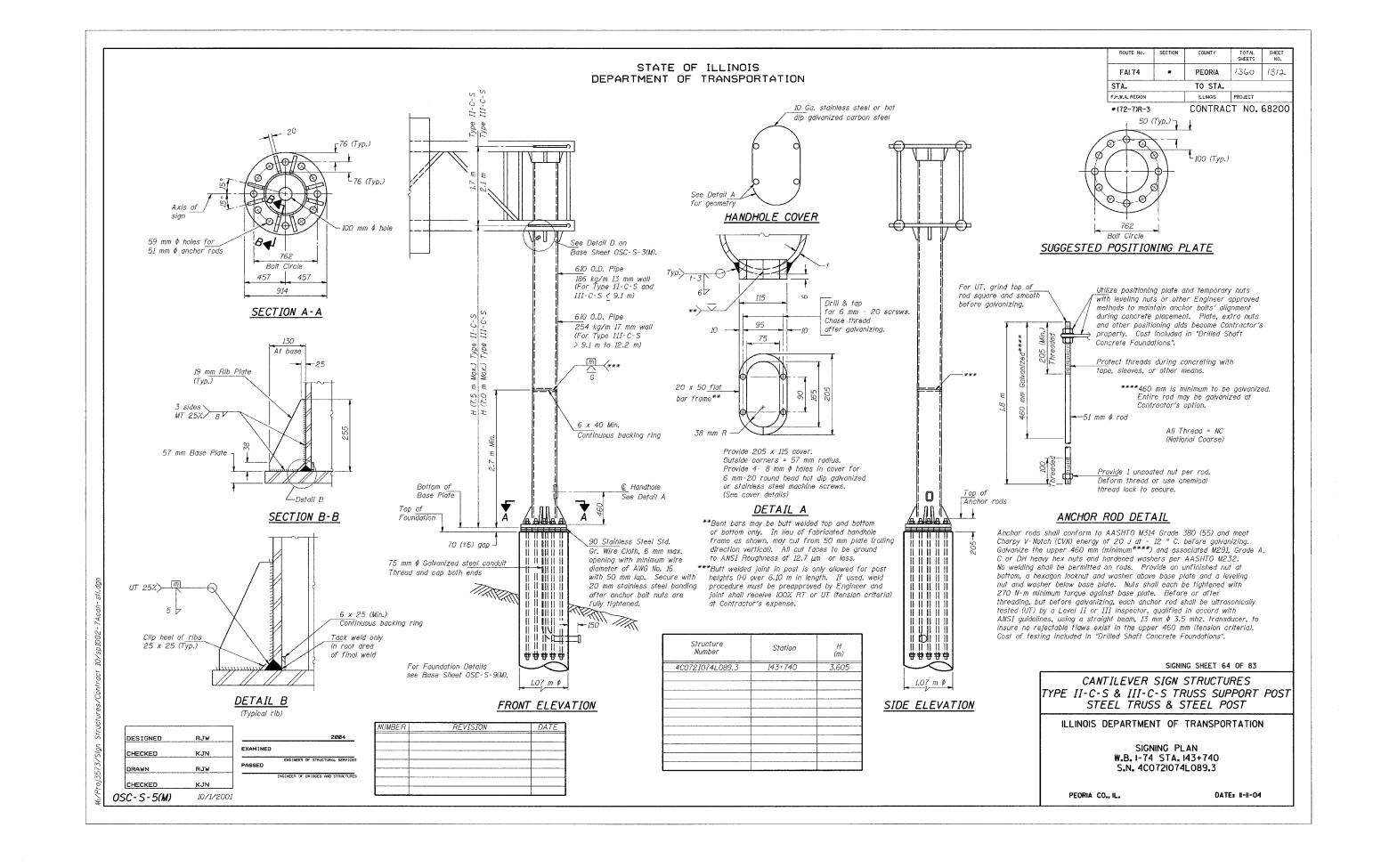
PEORIA CO., II.

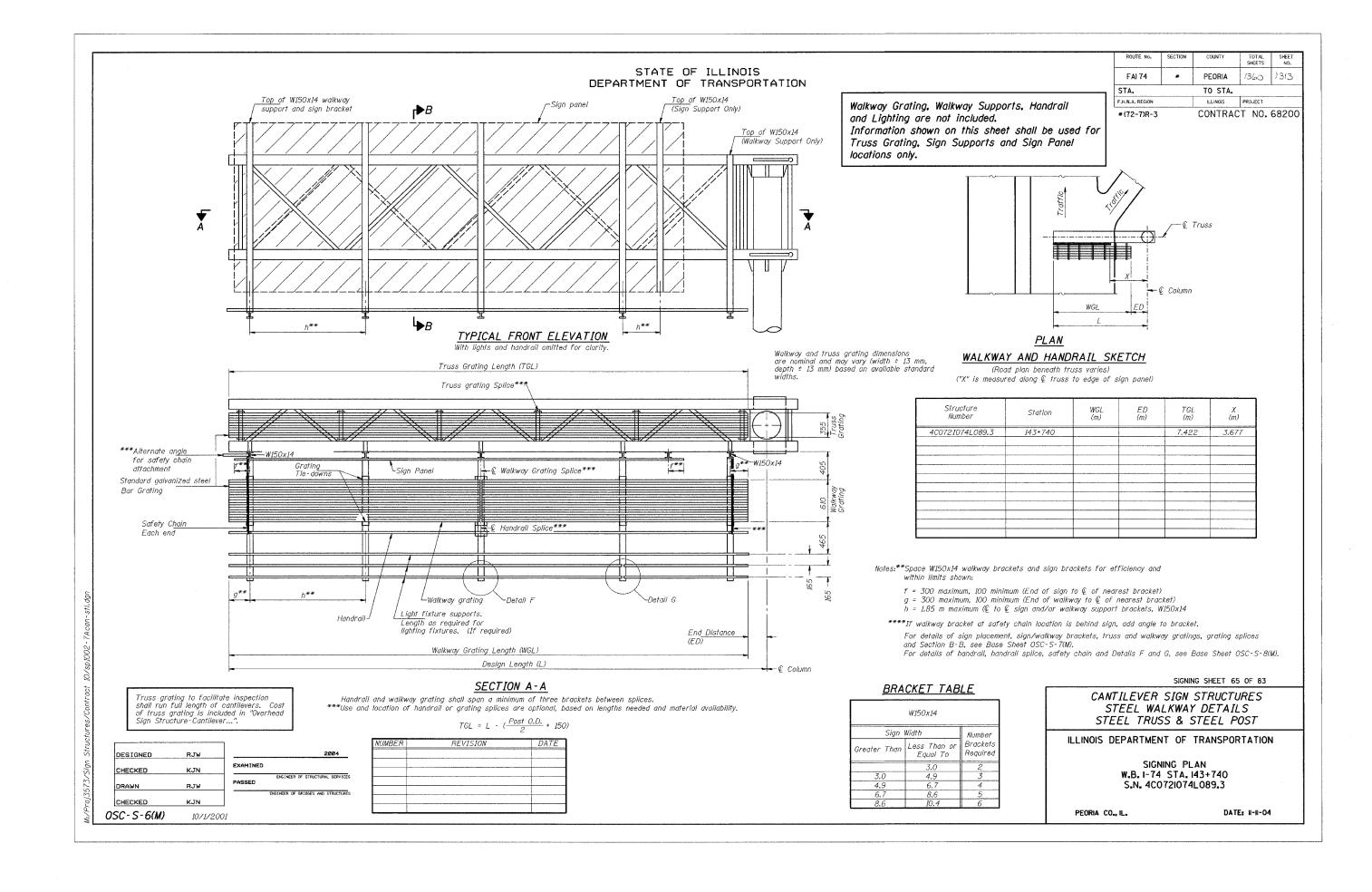
DATE: II-II-04

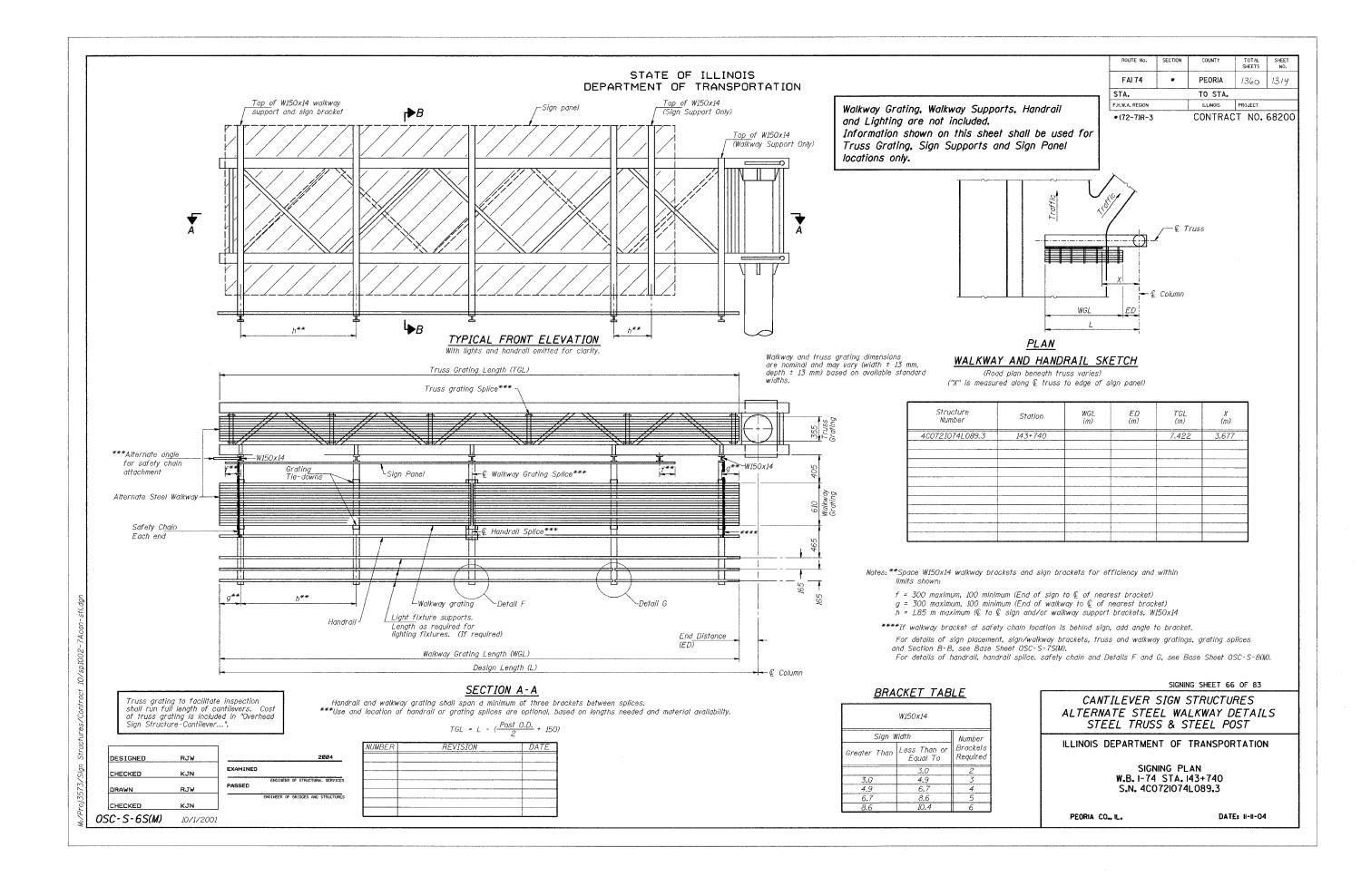


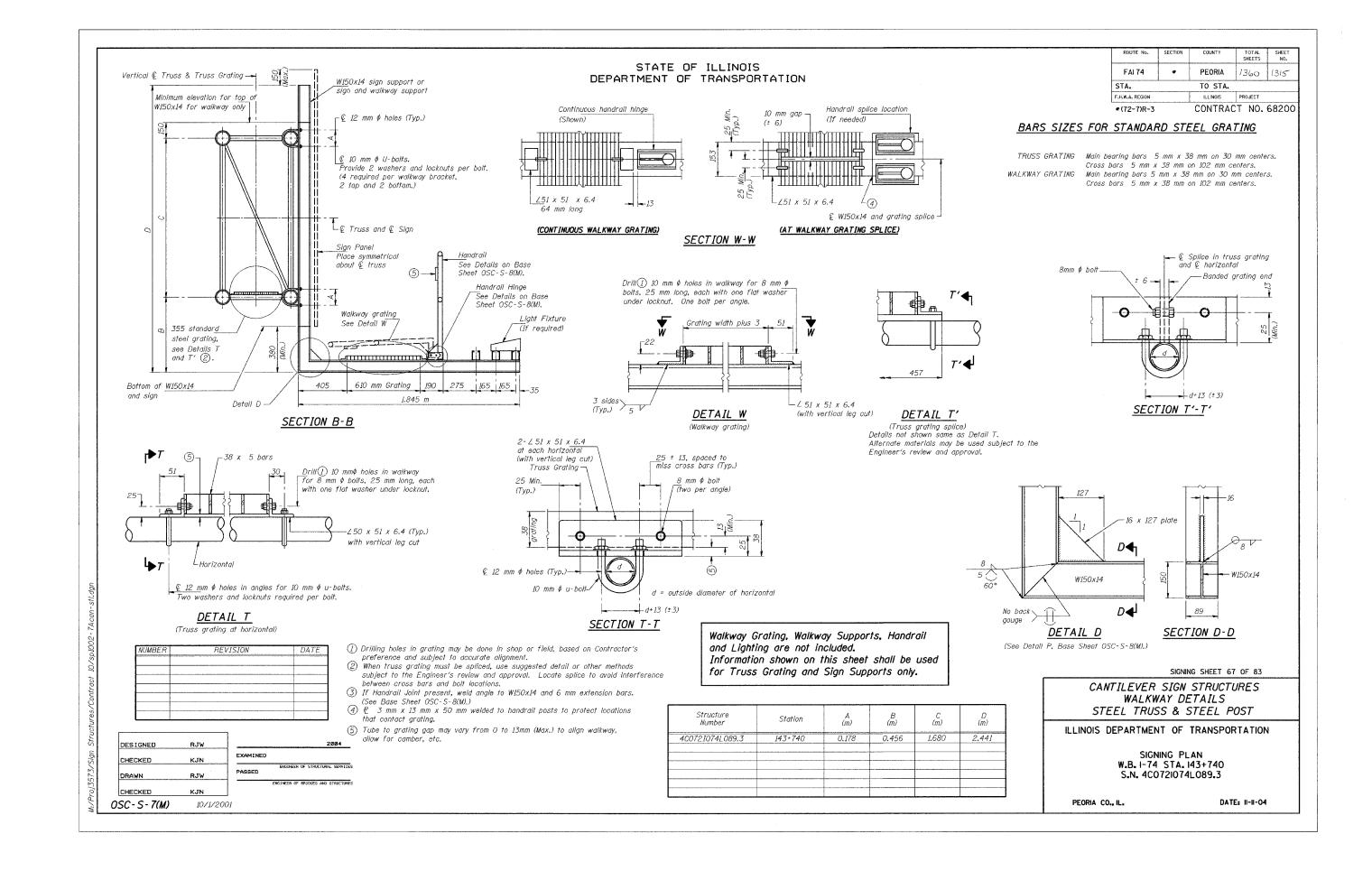


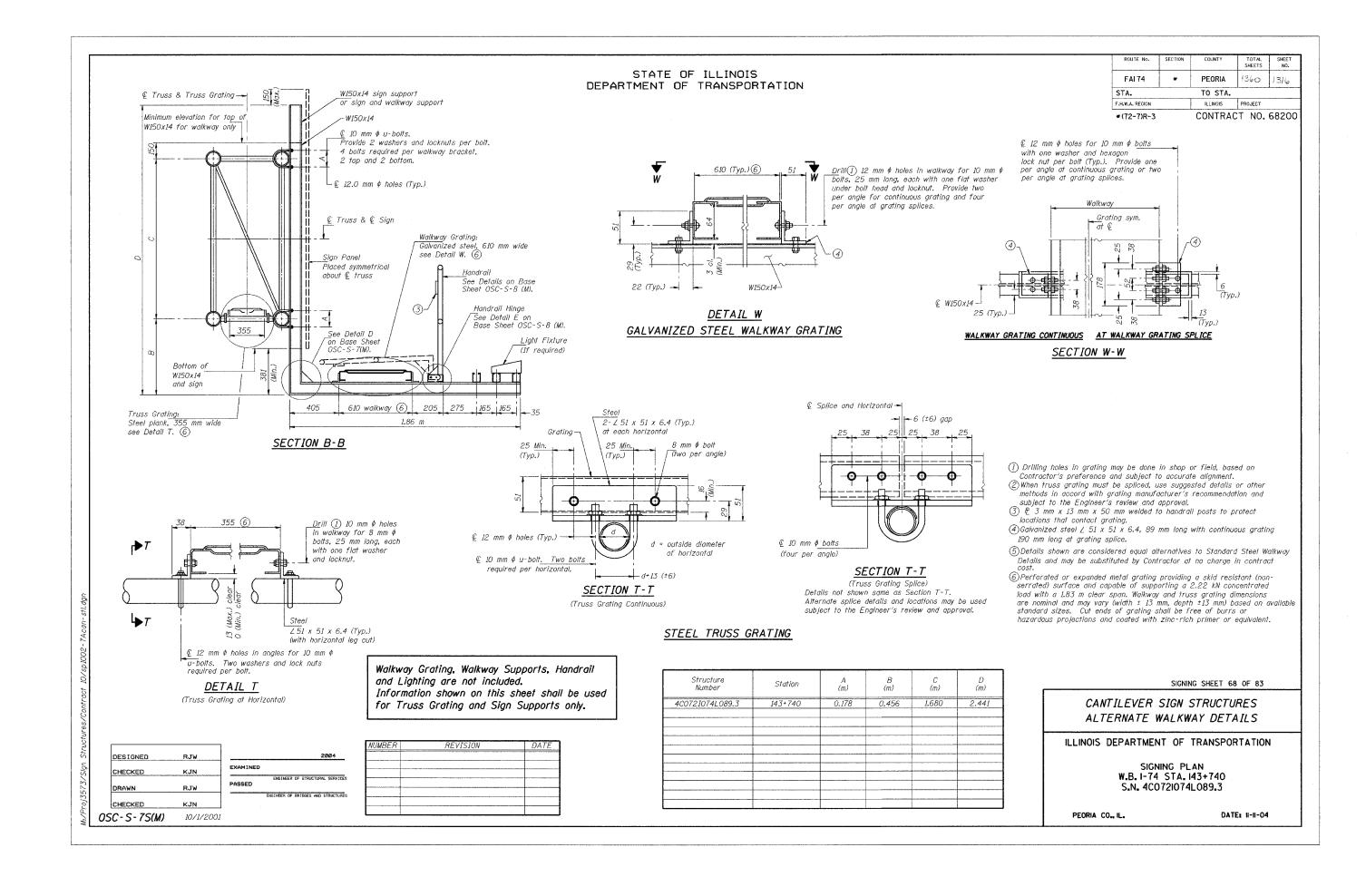


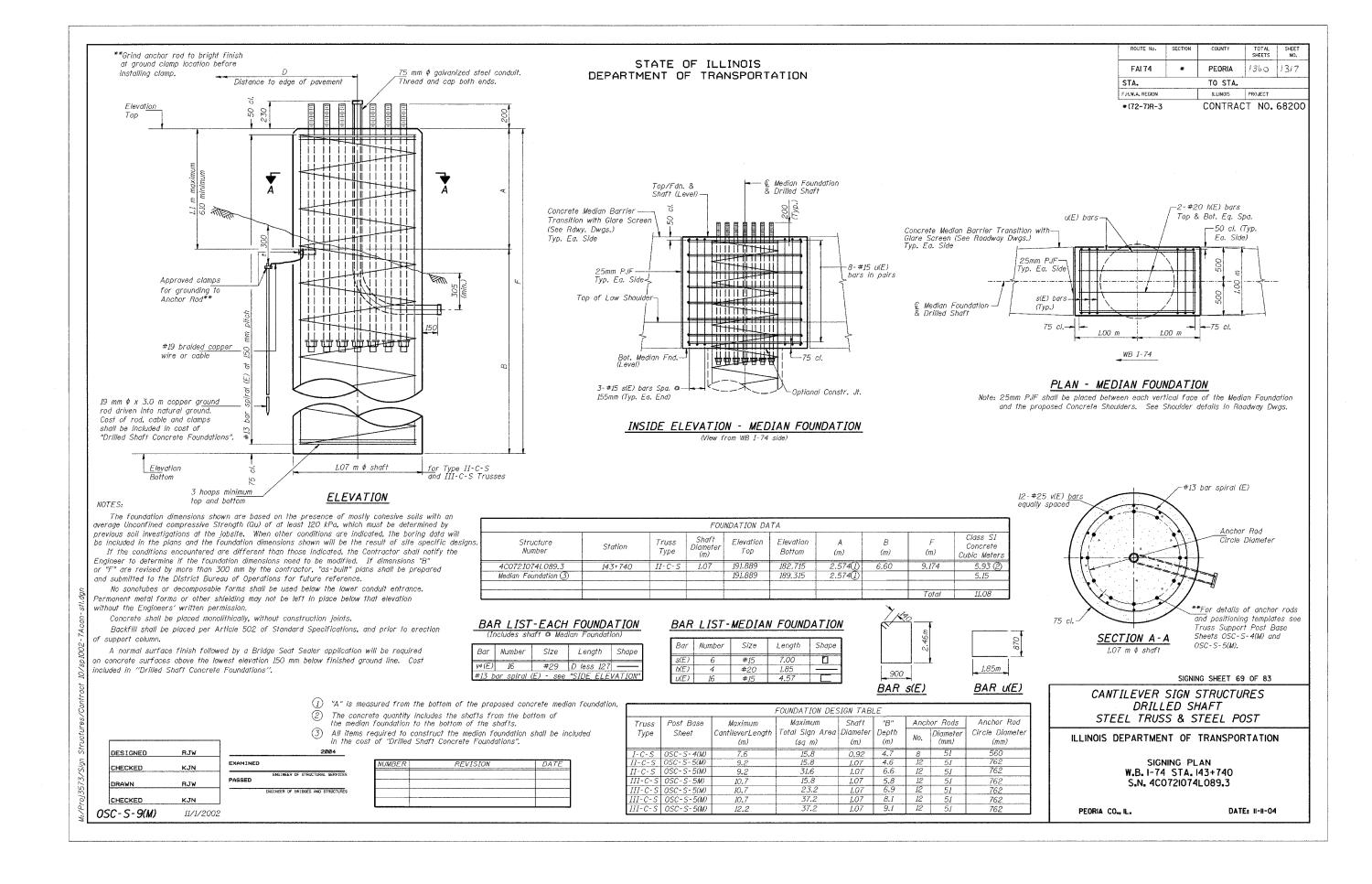




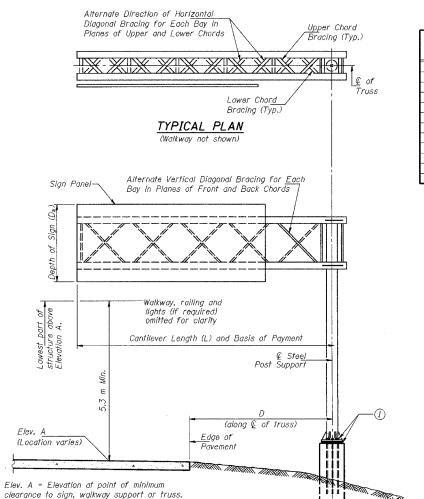








Walkway Grating, Walkway Supports, Handrail and Lighting are not included in this contract.



TYPICAL ELEVATION Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Structure Number	Station	Design Truss Type	Cantilever Length (L) (m)	Elev. A	Dim. D (m)	Ds (m)	Total Sign Area (sq m)
4C072U150R024.7	39+700	III-C-A	10.80	195.477	6.782	2.743	11.52
4C072UI50R024.9	40+105	III-C-A	11.84	194.523	7.040	2.591	12.44

Truss Type Maximum Sian Area Maximum Lenath

	Trace Type	MOXIMON SIGIT ATOU	maximam Edigin	⊣
	I-C-A	15.8 m ²	7.6 m	
	II-C-A	31.6 m ²	9.2 m	
	III-C-A	37.2 m ²	12.2 m	_
				- F& apper chora
1				•
_		1.44 kPa on		
4.6 m (Max.)	Max	aimum Sign Area	0.5 kPa	
1.6	1000	-	0.5 KPd	
, ,		(See Table)		
•				اير
				Max.
	Me	aximum Length (See 1	Table)	8
				2.0
			111	
			444	•
				T P
			l i l	Bottom of
				Base Plate
			A STATE OF THE PARTY OF THE PAR	
			زيل ا	The state of the s

DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for L.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

(1) After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 270 N \cdot m. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Note: Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

2Δ/	NOTES			CONTRAC	T NO	6020
_		F.H.W.A. REGION		ILLINOIS	PROJECT	
		STA.		TO STA.		
		FAI74	*	PEORIA	1360	13/8
					SHEETS	NO.

ROUTE No. SECTION

GENERAL NOTES

CONTRACT NO. 68200 *(72-7)R-3

COUNTY

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") MEASUREMENTS: All dimensions are in millimeters (mm) except as noted.

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

LOADING: 145 km/h WIND VELOCITY

WIND LOADING: 1.44 kPa normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 2.2 kN. concentrated live load.

ALLOWABLE UNIT STRESSES: Structural Steel -138 MPa Reinforcina Steel - 138 MPa Class ST Concrete - 10 MPa

Structural Aluminum - per AASHTO Specifications.

Allowable unit stresses due to wind load in combination with other forces, are increased 1.33

MINIMUM CLEARANCE: Vertical Roadway Clearance = 5.3 m (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 241 MPa, or A500 Grade B or C with a minimum yield of 319 MPa. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 250, Gr. 345 or Gr. 345W**. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 20 J at 4° C. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO MI64 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strenath bolt and stud installation shall conform to article 505.04(f)(2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for u-Bolts and eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts, and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each u-Bolt and eyebolt lock nut.

STEEL PIPE: DN indicates nominal diameter.

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

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 380 (55) with a minimum Charpy V-Notch (CVN) energy of 20 J at -12° C.

CONCRETE SURFACES: All concrete surfaces above an elevation 150 mm below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

**If M270 Gr. 345W steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

SIGNING SHEET 70 OF 83

> CANTILEVER SIGN STRUCTURES GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL POST

ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING PLAN

WAR MEMORIAL DR. STA. 39+700, 4C072UI5OR024.7

WAR MEMORIAL DR. STA. 40+105, 4C072UI50R024.9

PEORIA CO., IL.

DATE: II-II-04

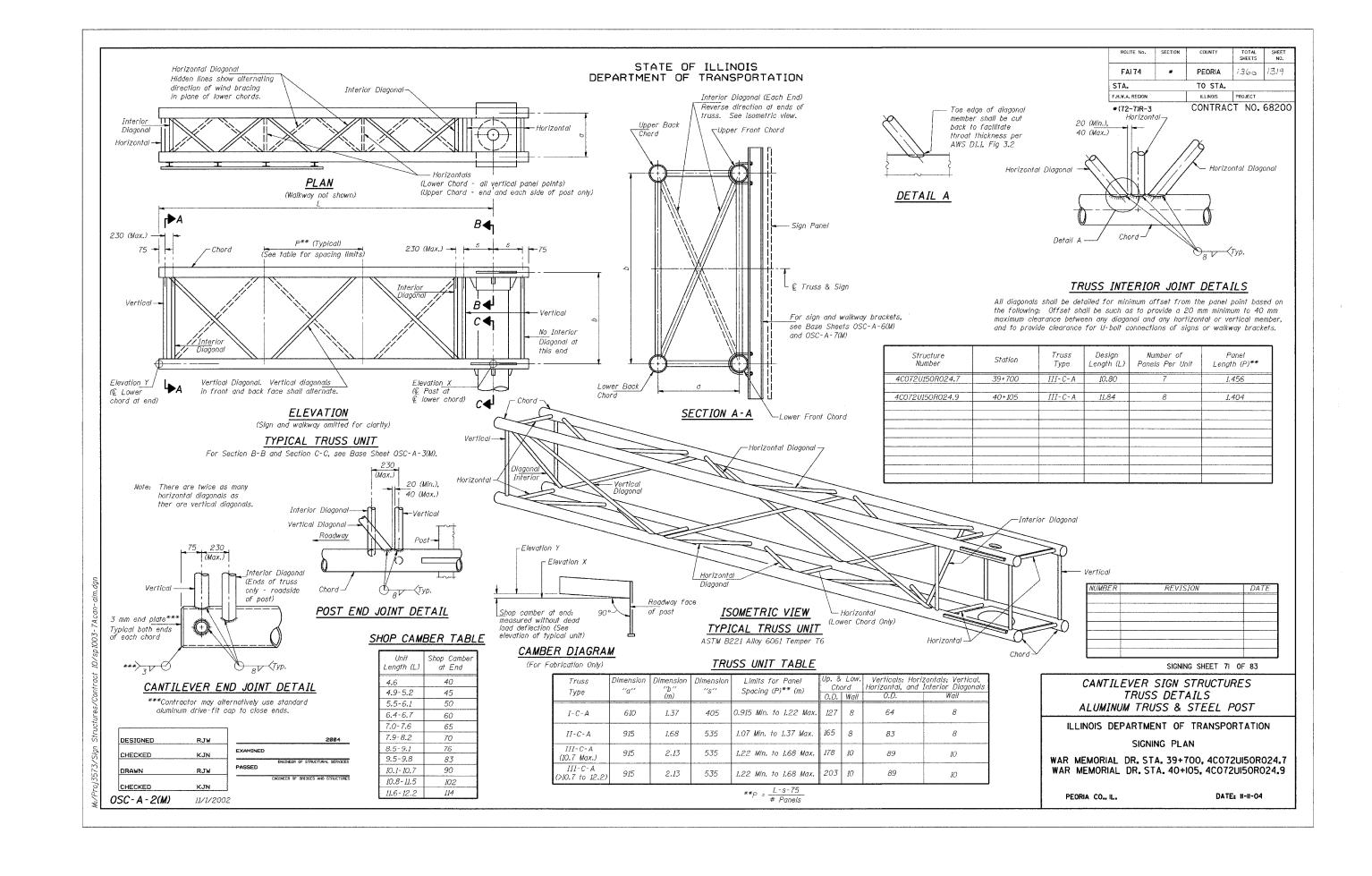
TOTAL BILL OF MATERIAL CANTILEVER ALUMINUM TRUSS

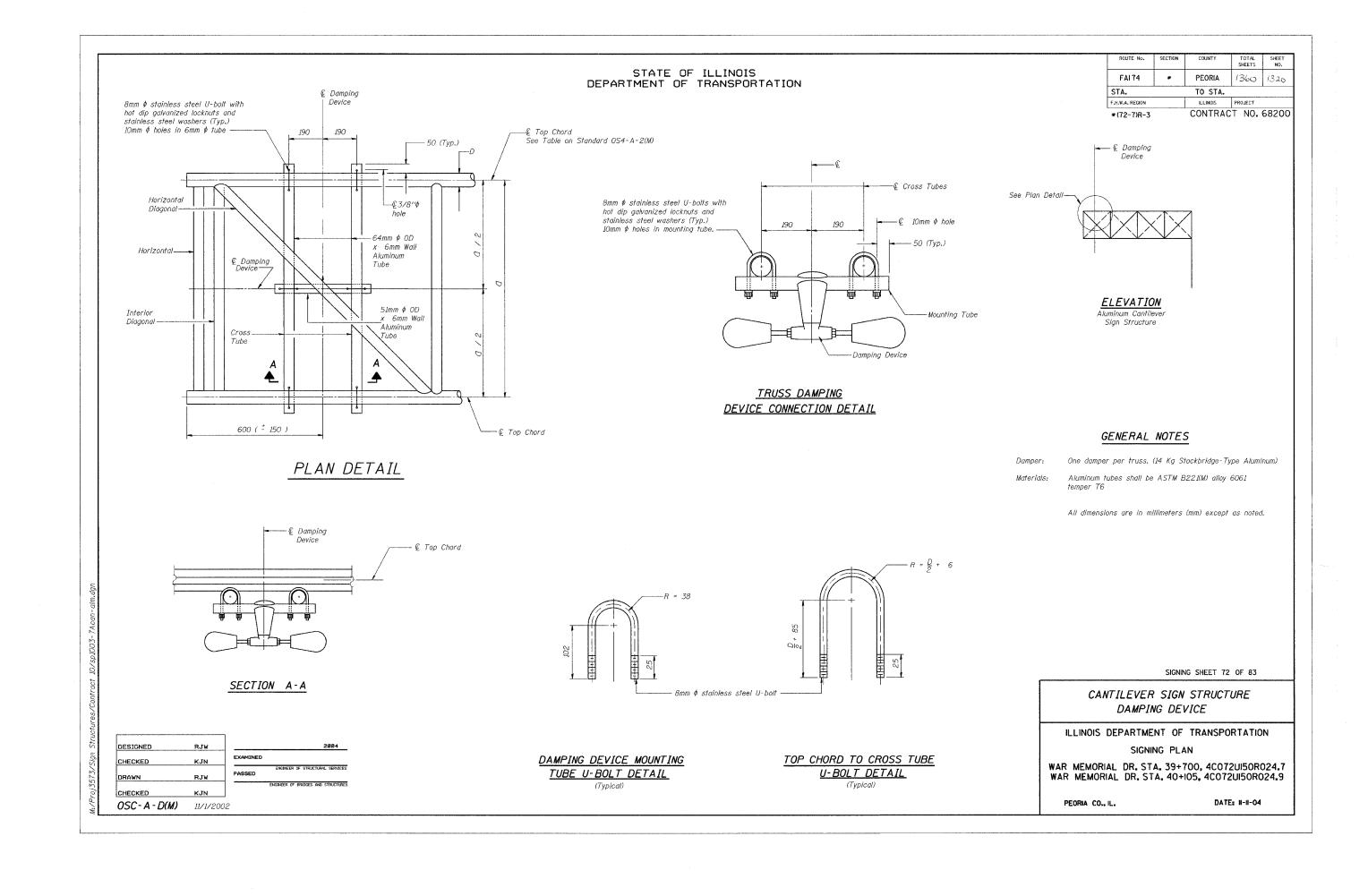
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE II-C-A M OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-A (0.90M X 2.14M) M	OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE I-C-A (0.61M X 1.37M)	m
OVERHEAD SIGN WALKWAY-CANTILEVER TYPE A m	OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-A (0.90M X 2.14M)	m
	OVERHEAD SIGN WALKWAY-CANTILEVER TYPE A	m
	DRILLED SHAFT CONCRETE FOUNDATIONS	m3

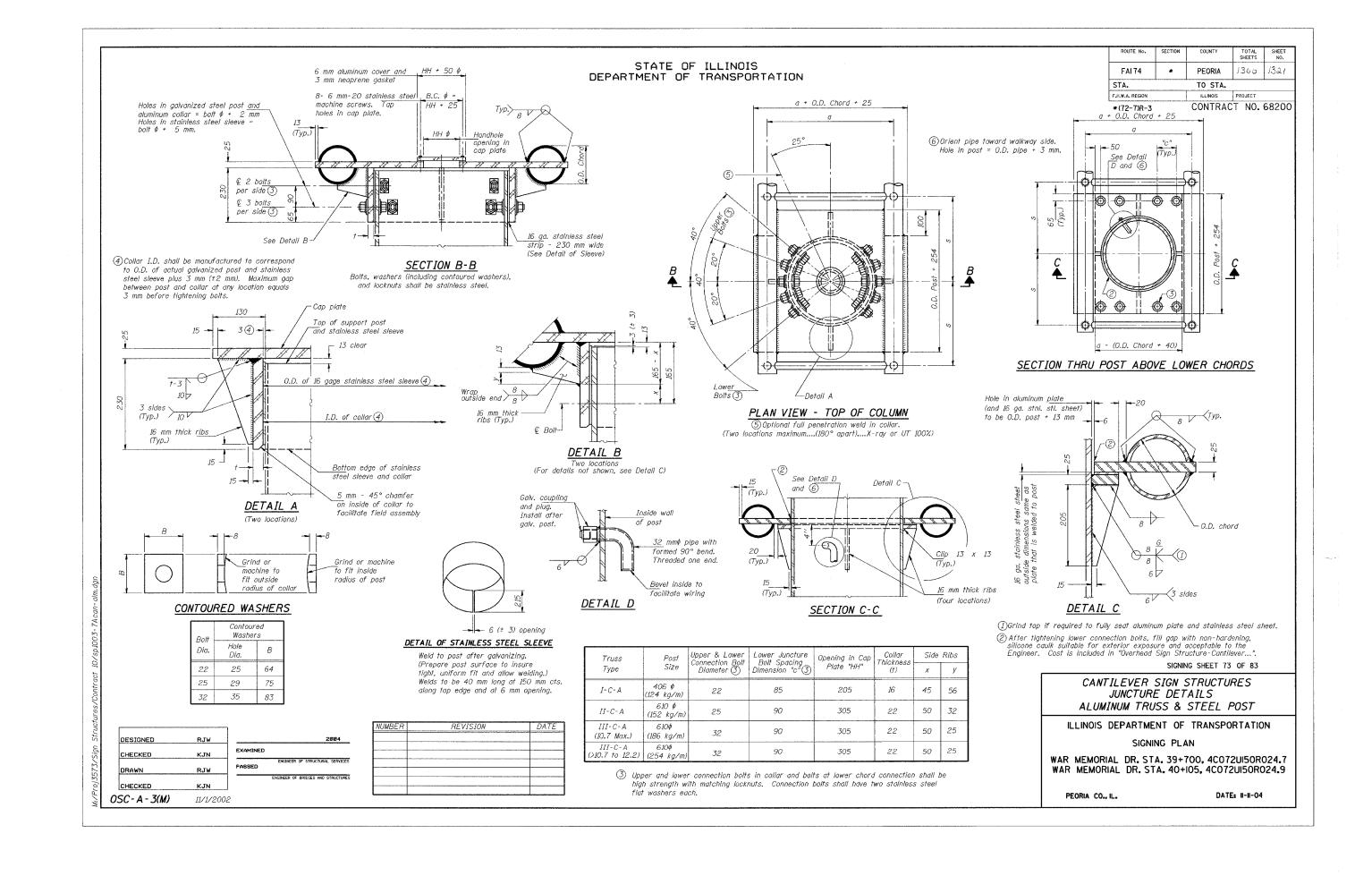
DESIGNED RJW CHECKED KJN DRAWN CHECKED KJN OSC - A - 1(M) 11/1/2002

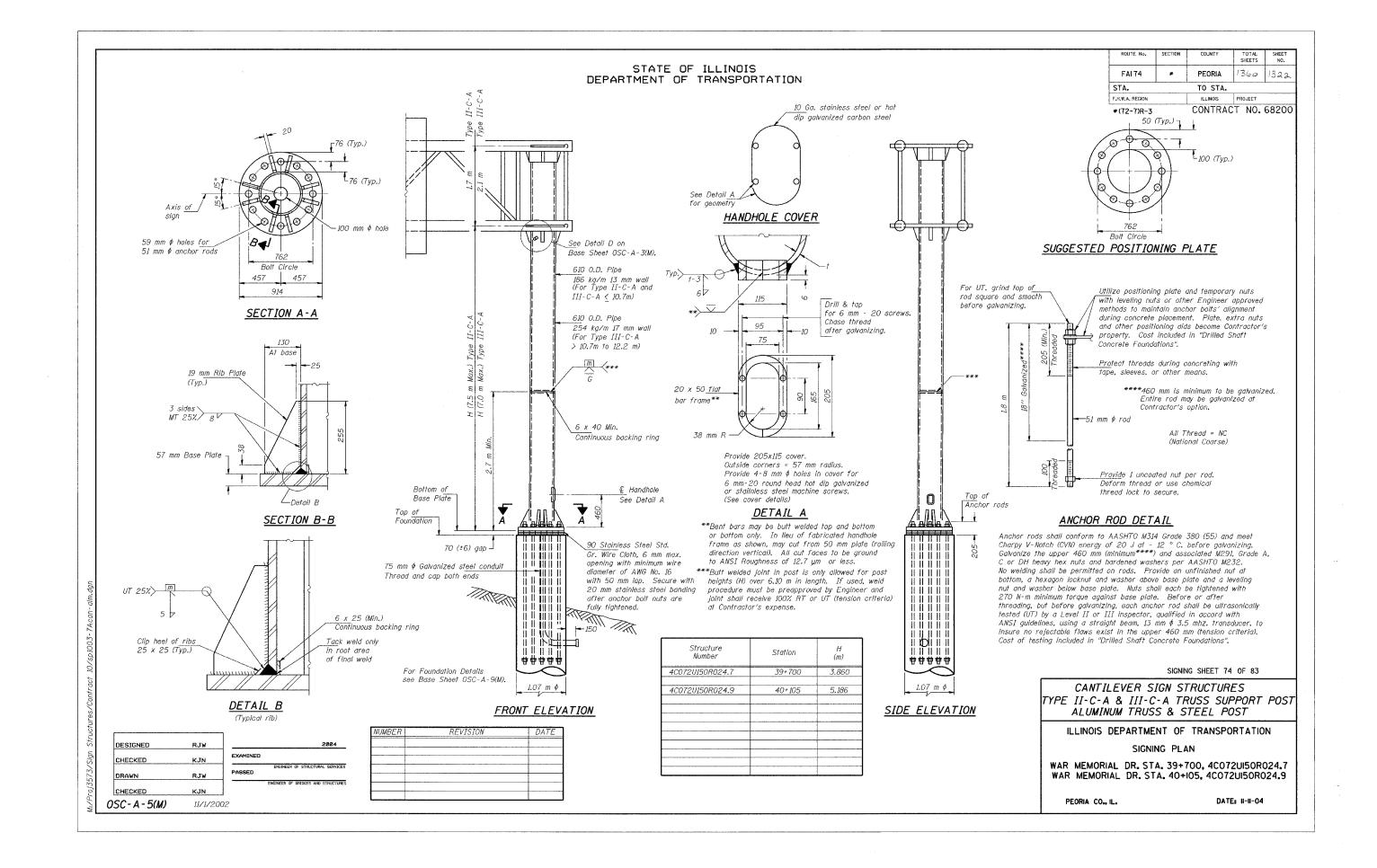
EXAMINED PASSED

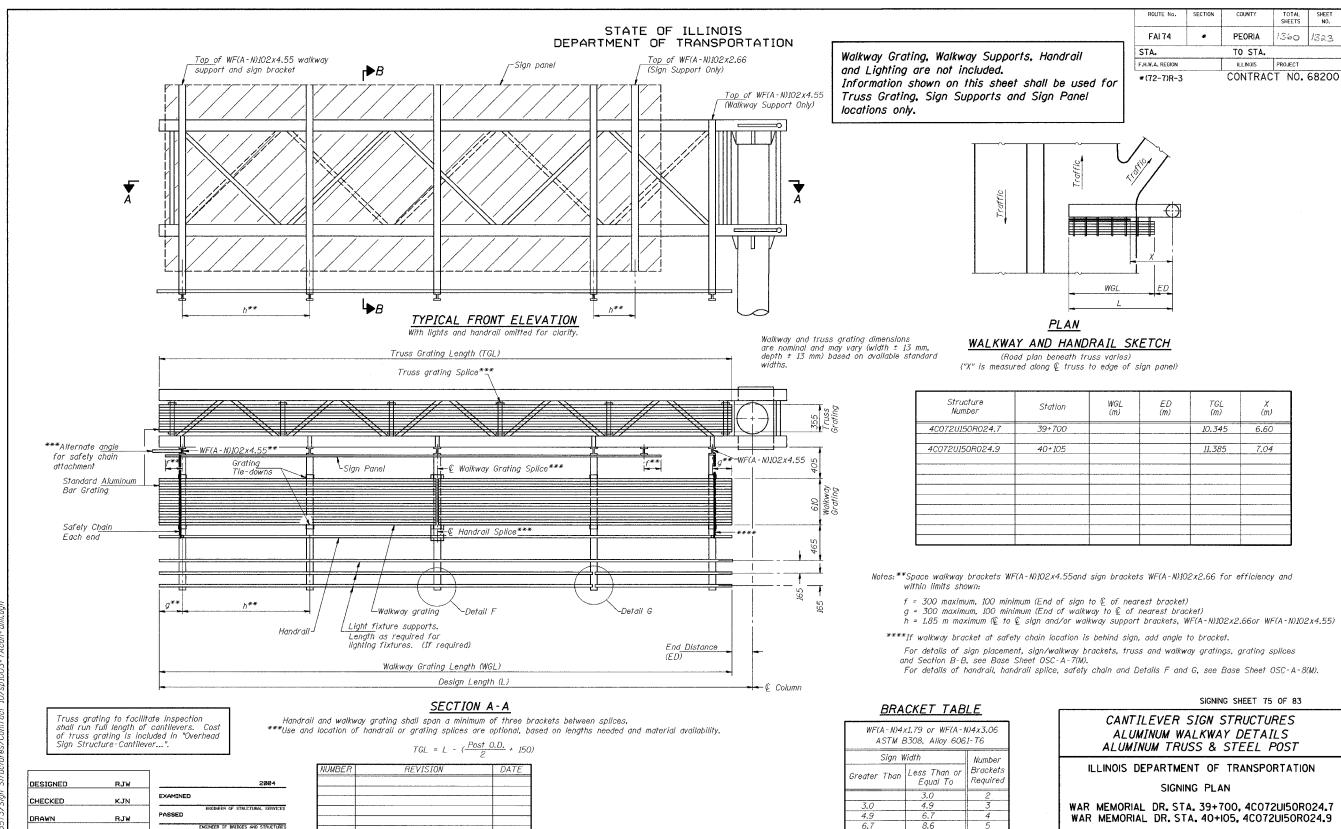
REVISION











10.4

PEORIA CO., IL.

DATE: II-II-04

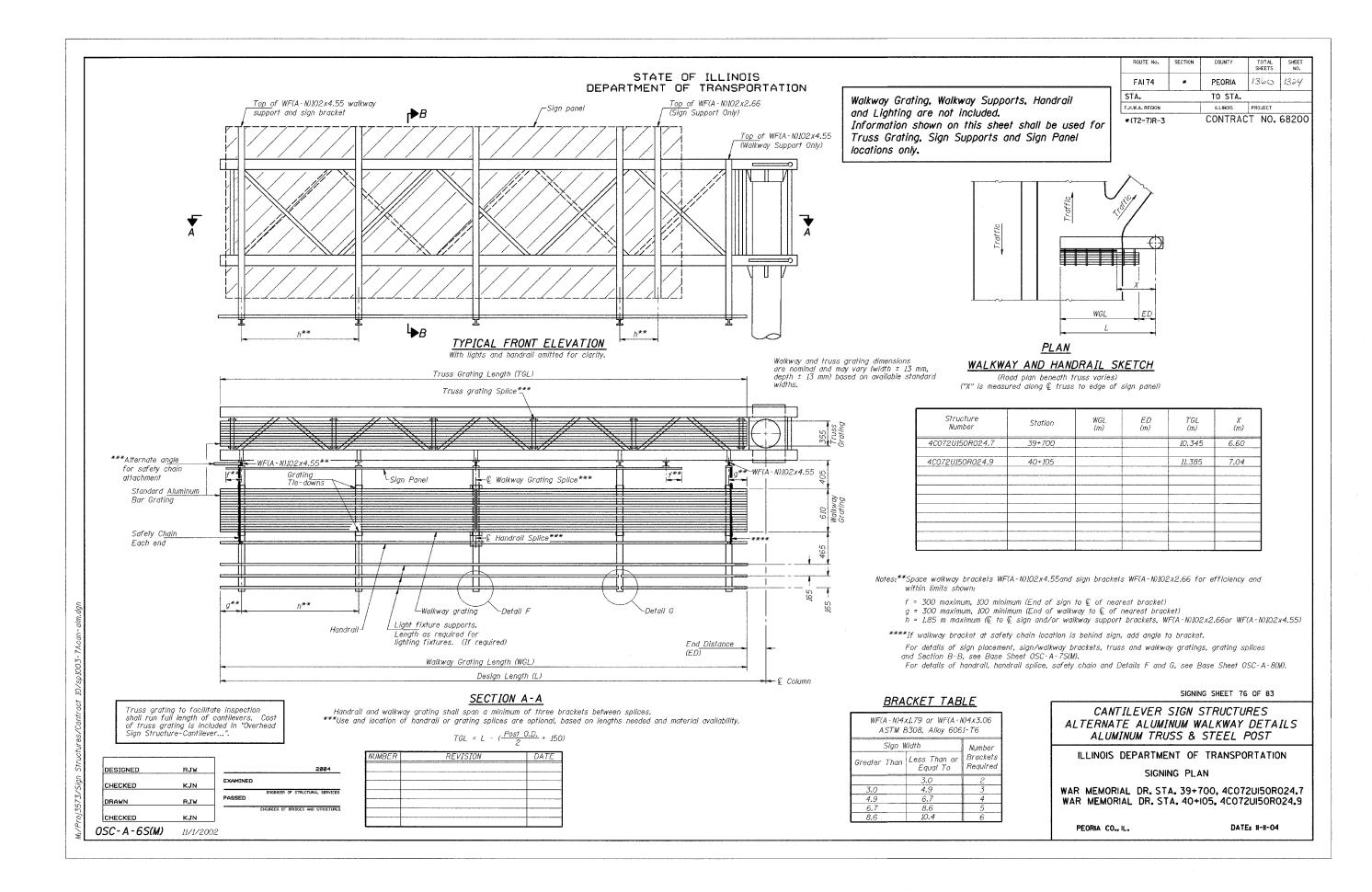
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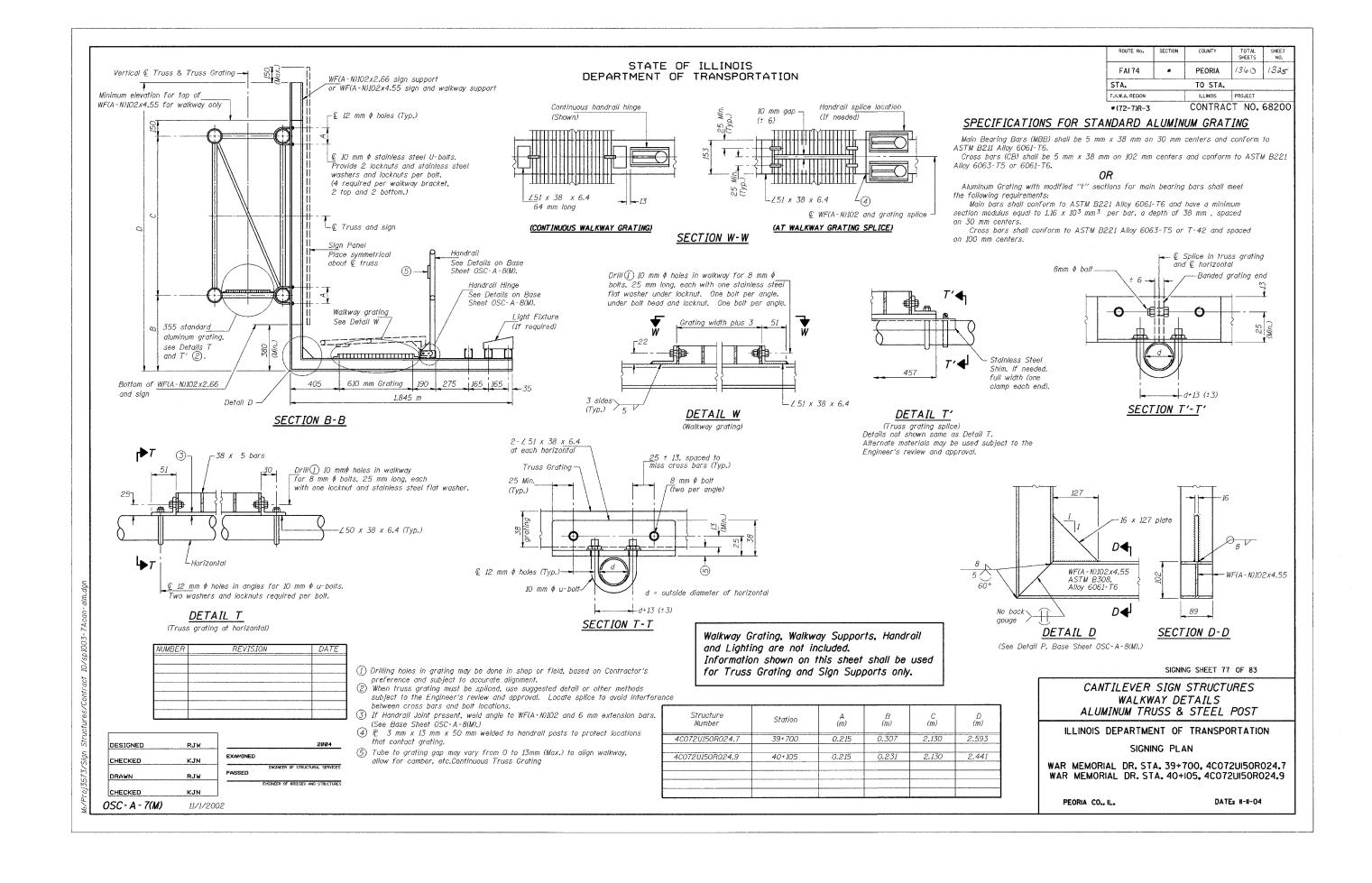
CHECKED

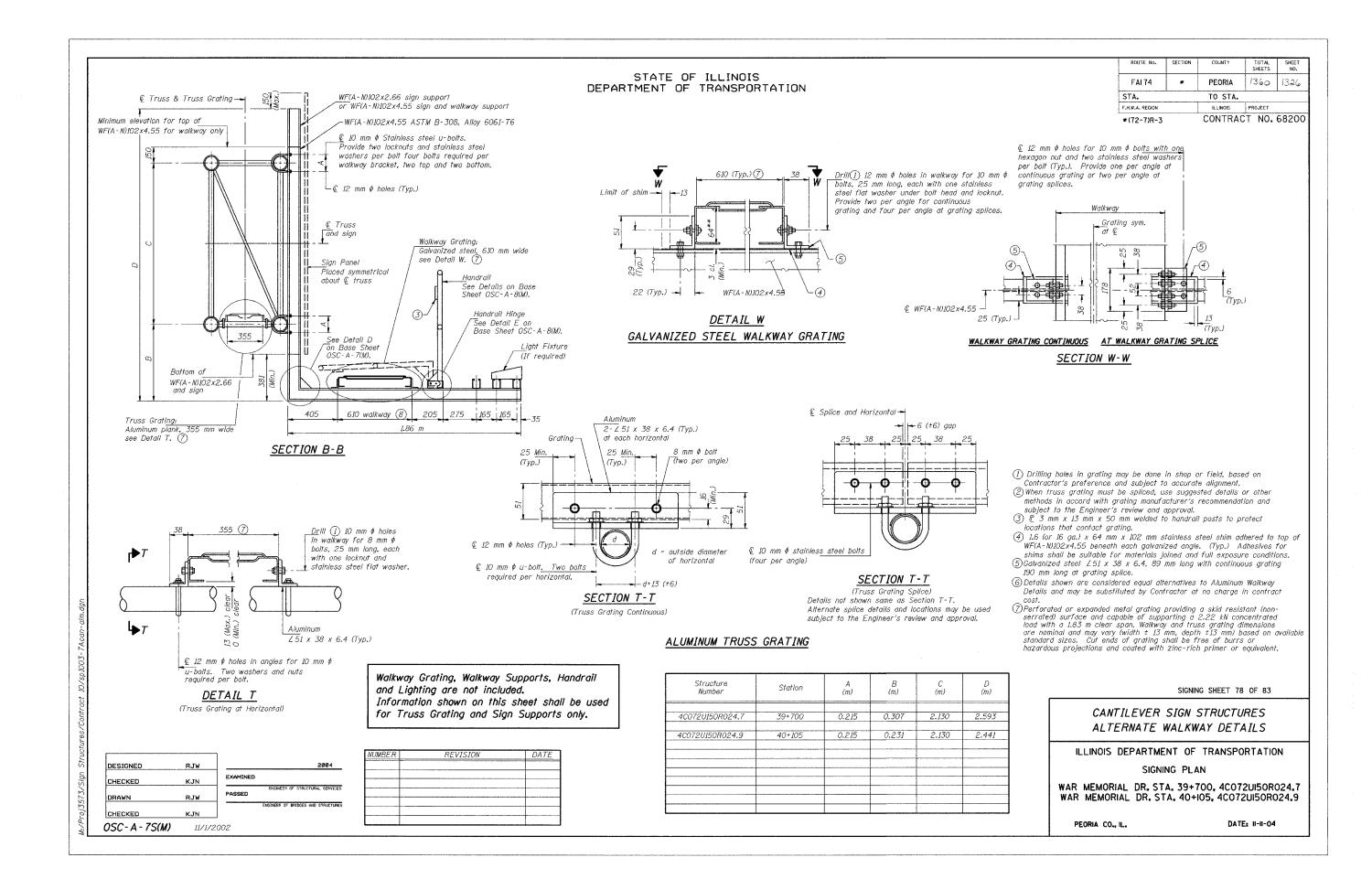
OSC-A-6(M)

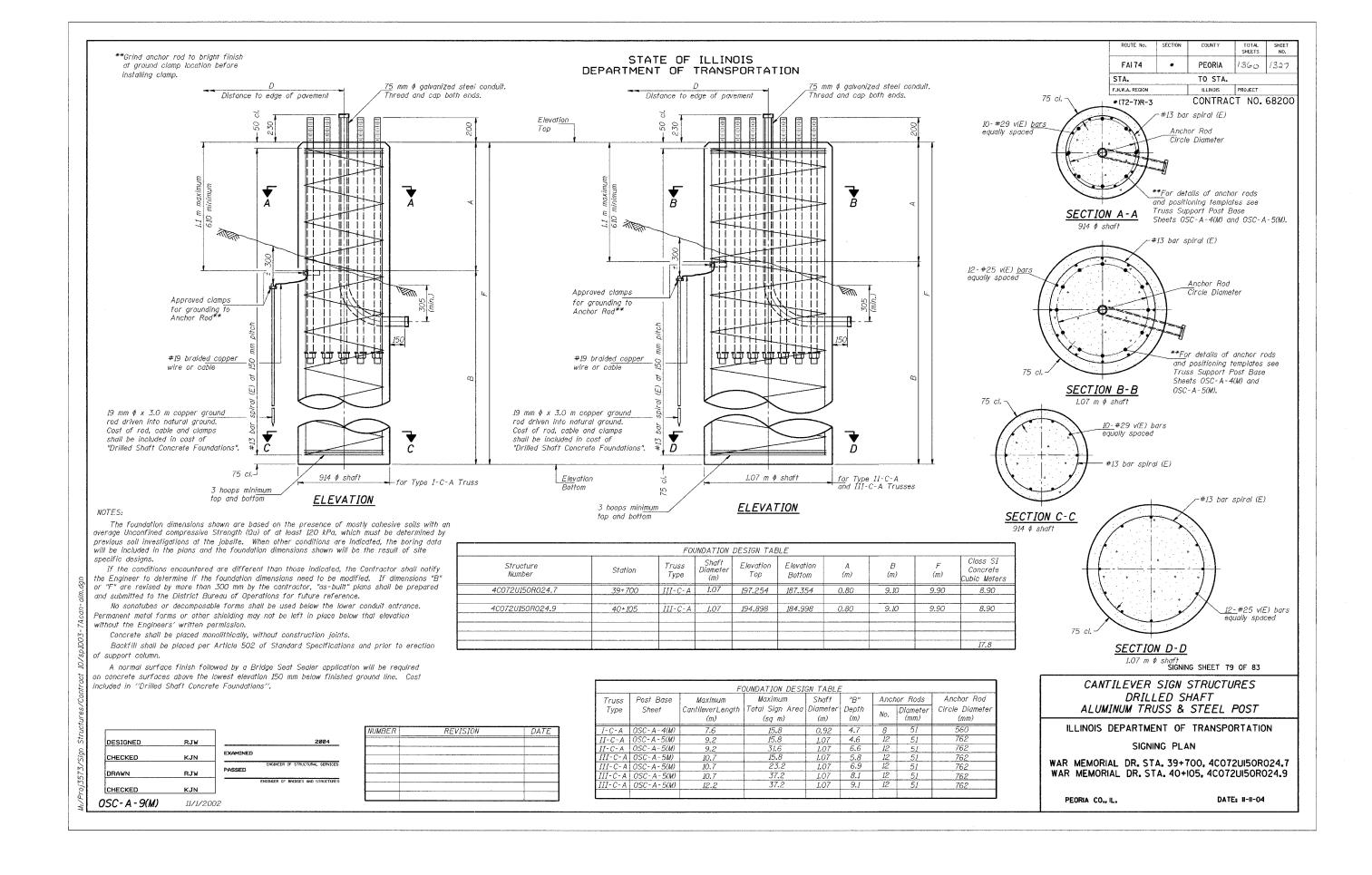
KJN

11/1/2002









STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
FAI74	*	PEORIA	1360	1328			
STA. TO STA.							
F.H.W.A. REGION		ILLINOIS	PROJECT				
*(72-7)R-3		CONTRAC	CT NO.	68200			

Division of Highways (CO) UTE FAI-74	DESCRIPTION		Overhead Sign Trues		5/30/02	of Transporta	ation 5'	OIL BORIN	G LUG	Date 5/31/02
			[1] [1] 아이를 하는 것이 되었다.		ERD16.	ROUTE FAI-74 I	DESCRIPTION	Overnead Sign Tru	iss Loc	GED BYDBR.
CTION _72-5 7 8 9-1 90-11 90-12		AND MARKET AND			THE CONSTRUCTION AS A	SECTION 72-6.7.8.9-1,80-11.90-12.1	314 LOCATION S	EC. TWP. RNG		ringi Mina nasarahka tarangsa ing kisaka na ingkangsananan
UNTY Papria & Tazewell DRILL			HSA HAMMEI	and the state of t	an employment or a	COUNTY Pegris & Tazaweli DRILLI	NG METHOD	HSA	HAMMER TYPE	AUTO
RUGT, NO.	E L C	M O I I S	Surface Water Elev. Stream Bed Elev.	_m E L	U M C O S I	STRUCT, NO.		Surface Water Elev.	m [D B U M
RING NO. \$\$\$8-06P ation 143+792 freat 36:00m L1 of W6 BL	H S Q	u T	Groundwater Elev.: First Encounter 2008 Upon Completion 182.7		Qu T	BORING NO. SSSB-06M Station 1434791 Offset 15.00m Lt of WB BL Ground Surface Fley. 128.15 n	P O S I T W S N S Qu T		183.7 m¥ 1	POSI TWS HSQuT
round Burface Elev. 185.69	22 (es) men (se	(a) (76)	After 24 Hrs. 183.7 Light Gray SILT withace of sand (continued)	m × 100 000 1	59 17	Offset 15.00m Lt of WB BL Ground Surface Elev. 188.15 n	(/150 n (m) mm) (kPa) (%	Upon Completion After 24 Hrs.		(/150 m) mm) (kPa) (%
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	90 4	14/				中華 法国际 医迷阴 震游 斯				*****

LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam Textural classification of soil in accordance with IDOT Qu, kPa Unconfined compression stre determined in accordance with Triangular Chart.

Unconfined compression stre determined in accordance with IDOT specification.

DESIGNED RJW 2894

CHECKED KJN EXAMINED

DRAWN RJW PASSED ENGINEER OF STRUCTURAL SERVICES

CHECKED KJN

DIGNEER OF BRIDGES AND STRUCTURES

BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

u, kPa Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock. SIGNING SHEET 80 OF 83

SIGN STRUCTURES SOIL BORING LOGS

ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING PLAN

W.B. I-74 STA. 143+798, S.N. 4S0721074L089.3

PEORIA CO., IL.

DATE: H-H-04

roj3573/Sign Structures/Contract 10/sp1004-7Aborin

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI74	*	PEORIA	/360	1329
STA.		TO STA.	,	
F.H.W.A. REGION		ILLINGIS	PROJECT	
*(72-7)R-3		CONTRAC	T NO.	68200

of Transportation of Highwaye (DOT)			DIL BORING LOG	(Sy) Illinois Depa	rtment				Paç	s 1	of
E <u>FAI-74</u> DES	CRIPTION		Overhead Sign Truss LOGGED BY DLR	1 \ \\ \ \ \ \ Of Transport	ation	S	OIL BORIN	G LOG			
ION 72-6.7.8.9-1.90-11.90-12.13.14	LOCATION	SEC	C. TWP. RNG.	Division of Highways 1007						o <u>5</u>	
TY Peoria & Tazewell DRILLING	METHOD		HSA HAMMER TYPE AUTO	그 그 이 경기가 되고 얼마나 하다 된 것이라요?			Overnead Sign Tru		JGGED B	Y	DPS_
on MAINLINE STATIONING	pau ELC Pos	M O	Surface Water Elev.	SECTION 72-67-8-9-1-90-11-90-12- COUNTY <u>Pecris & Tazawer</u> DRILL		ION _		HAMMER TYPE		YUTQ.	
NG NO. <u>SSSE-071.</u> on <u>144+150</u> or 19.00m Lt of WB BI	T W H S Qu (/150	S T	Groundwater Elev.; T W S First Encounter 162.3 m ¥ H S Qu T Upon Completion 182.3 m V U359	STRUCT, NO. Station	PO	V P C C	Surface Water Elev. Stresm Bed Blev.	m m	5 E L	o s	*
nd Surfaca Elev. 183.88 m (mple Taken	n) mm) (kPa	(%)	After 24 Hrs.	BORING NO. SSSB-06R	T W H S (750	Qu S	Upon Completion	177.3 m ₹ 173.5 m ¥	T W H 3	Qu J	S
183.20 ANDY LOAM 182.97	2 2	12.	Gray Fine SILTY SAND 177.11 2	Ground Surface Elev. 180.78 No Sample Taken	m (m) mm) t	(Pa) (1	Gray CLAY ECAM Till continued)	nci laken ini L	(m) mm 5	7 (8 PA) 7 7 5 4 	1031
-ine Coarse SAND siit	<u> </u>	7	6 17 10	Brown CLAY LOAM TILL	20 - 4 7 12	116 1 S			4	316	
	2 1.5 7	18	7.5 2 2 20	Brown & Gray CCAY LOAM TILL	54 3	>				8	
181,88.	2 376	4.5	cley @ 25.5' (7.77m) End of Boring	aum allary sup r submitted.	48 6	420 1 S			25 3 6	335 S	
181.45 Medium SAND	7 8	18		Brown: & Gray, SANDY CLAY LOAM	78 - 2 2 2	71 1	3		1		1,000
183.92 - Coarse SAND 18 gravel] 30 7	14	-7	w/ gravels		S.			- E	173 S	
	- 11				30 3 4	134 1 S	4		\$ 0 \$ 0 0	125	
	2 - 13 - 15	12			¥ 2		End of Boring	17; 46		3	Jennen
179.50		-			7	$-\frac{1}{1}$	5		=		
Action SAND		26	49.5		2 -1.5 5	493 1 E			10.6		1
	8	26									
	- 8				A Report of Consult	216 1 P	3			The same of the sa	
	- 5			Grav CLAY LOAM YILL 17.8	97					i	1

LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam Textural classification of soil in accordance with IDOT Qu, kPa Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

 DESIGNED
 RJW
 2884

 CHECKED
 KJN
 EXAMINED

 DRAWN
 RJW
 PASSED

 CHECKED
 KJN

BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

oist, % Natur

Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock. SIGNING SHEET 8I OF 83

SIGN STRUCTURES SOIL BORING LOGS

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING PLAN

W.B. 1-74 STA. 144+154, S.N. 4S0721074L089.4 W.B. 1-74 STA. 144+540, S.N. 4S0721074L089.7

PEORIA CO., IL.

DATE: 11-11-04

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	PEORIA	1360	088Y
STA.		TO STA.	···	
F.H.W.A. REGION		ILLINOIS	PROJECT	
*(72-7)R-3		CONTRAC	T NO.	68200

Illinois Department of Transportation SOIL BORING LOG	Illinois Department of Transportation SOIL BORING LOG	Illinois Department of Transportation SOIL BORING LOG
ROUTE FAI-74 DESCRIPTION Overhead Sign Truss LOGGED BY DBR	Data 5/3/0/2	ROUTE FAI-74 DESCRIPTION Chemead Sign Truss LOGGED BY DBR I
SECTION 72-6.7.8.9-1.90-11.90-12.18.14 LOCATION SEC. TWP. RNG.	SECTION 72-6,7-8.9-1.90-11.90-12.13.14 LOCATION SEC., TWP. RNO.	SECTION 72-67.8.9-1.90-11.90-12.13.14 LOCATION SEC. TWP, RNG.
COUNTY PEDIS & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO	COUNTY Pools & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO	COUNTY Paoila & Tazaweii DRILLING METHOD HSA HAMMER TYPE AUTO
STRUCT.NO	STRUCT. NO. D B U M Surface Water Elev. m D B U M	STRUCT. NO
Brown SANDY CLAY LOAM 3 3 45 8 3 3 19 11 19 11 19	Brown CLAY LOAM 2 2 - 4 - 7 434 13 5 6 - 10 B	Brown CLAY LOAM 4 4 4 5 13 5 237 14 5 B 8 B
Brown Fine SAND	Gray CLAY LOAM 2 3 3 7 3 55 13 6 B 70 B	Gray CLAY LOAM 2 - 4 - 75 7 335 13 - 9 B
7	Brown 7 Gray CLAY LOAM 7 7 7 7 7 7 7 7 7	- 2 - 5 395 13 - 5 376 13 - 6 B - 10 B
Brown SANDY GRAVEL 7 178.57 6 12	Gray CLAY LOAM 192.17 3 513 13 513 13 513 13 513 13 513 13 514 515 51 515 51 515 51 515 51 515 51 515 51 51	7
Recidish Brown CLAY LOAM HEL	5 13 237 13 9 B B S 15 12 10 10 10 10 10 10 10 10 10 10 10 10 10	4 267 14 6 B
## 10 ## ## 15 ## ## ## ## ## ## ## ## ## ## ## ## ##	39 B 3 217 13 3 217 13 9 17	3 - 5 - 217 14 - 7 - 8
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)	The Unconfined Compressive Strength (UCS) Fallure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)	The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Buige, S-Shear, P-Penetrometer)
The SPT (Nivalue) is the sum of the last two blow values in each sampling zone (AASHTC T295) BBS, from 137 (Rev. 8-99)	The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T20) BBS, from 137 (Rev. 8-99)	The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam Textural classification of soil in accordance with IDOT Qu, kPa Unconfined compression strengt determined in accordance with specification.

 DESIGNED
 RJW
 2004

 CHECKED
 KJN
 EXAMINED

 DRAWN
 RJW
 PASSED

 CHECKED
 KJN

Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

, kPa Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

SIGNING SHEET 82 OF 83

SIGN STRUCTURES SOIL BORING LOGS

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING PLAN

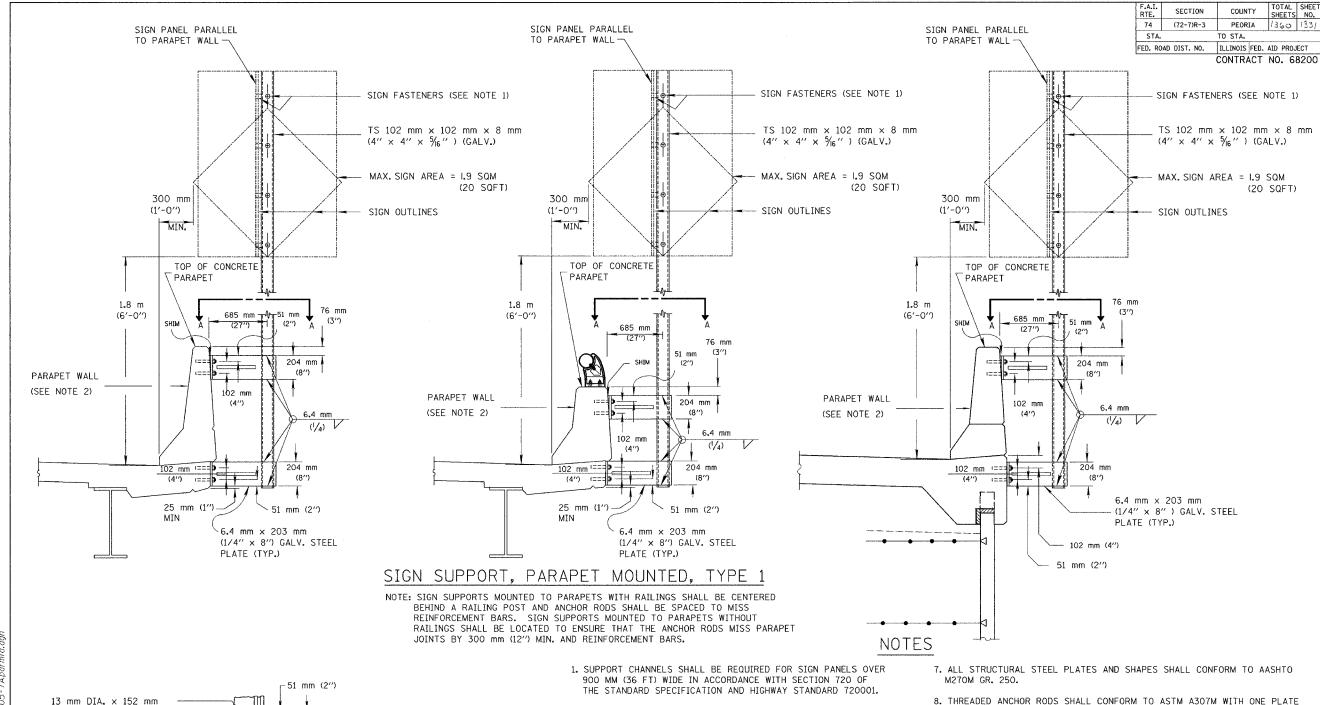
W.B. I-74 STA. I43+740, S.N. 4C072I074L089.3 WAR MEMORIAL DR. STA. 39+700, 4C072UI5OR024.7 WAR MEMORIAL DR. STA. 40+I05, 4C072UI5OR024.9

PEORIA CO., IL.

DATE: II-II-04

AZ FLOJSSI SZSIGIL STRUCTURESZ CONTRACT 107 SPIDU 4 - FABOLTING. A

4:/Proj3573/Sign Structures/Contract 10/



13 mm DIA. × 152 mm
(1/2" DIA. × 6") GALV. STEEL
ANCHOR ROD (TYP.)
(SEE NOTE 8)

1.067 m
(3'-6")

1.02 mm (4")
(1/4)

1.02 mm × 51 mm × 610 mm
(4" × 2" × 2'-0") GALV. STEEL
PLATE CENTERED VERT. &
HORIZ. ACROSS 6.4 mm × 203 mm
(1/4" × 8") PLATE

SECTION A-A

- 2. PARAPET AND RAIL SHAPE MAY VARY.
- 3. 3 MM FABRIC BEARING PAD TO BE PLACED BETWEEN THE GALV. STEEL PLATE AND THE PARAPET.
- 4. SHIM AS REQUIRED TO PLUMB TO ACCOUNT FOR THE SLOPE ON THE BACK OF PARAPET.
- 5. THE CONTRACTOR SHALL FIELD MEASURE THE PARAPET BEFORE FABRICATING SIGN SUPPORT AT EACH LOCATION.
- 6. ALL WELDS TO BE CONTINUOUS UNLESS OTHERWISE SHOWN. ALL WELDING TO BE DONE IN ACCORDANCE WITH CURRENT AWS D1.1 AND D1.2 STRUCTURAL WELDING CODES (STEEL) AND THE STANDARD SPECIFICATIONS.
- 3. THREADED ANCHOR RODS SHALL CONFORM TO ASTM A307M WITH ONE PLATE WASHER AND LOCKNUT AND BE HOT DIP GALVANIZED PER AASHTO M232. THEY SHALL BE EITHER CAST INTO THE CONCRETE OR EPOXY GROUTED IN ACCORDANCE WITH SECTION 584 OF THE STANDARD SPECIFICATIONS.
- ALL STEEL PLATES AND SHAPES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111. PAINTING IS NOT PERMITTED.
- 10. SIGN FACING DIRECTION SHALL BE AS SHOWN ON SIGNING PLANS.

SIGNING SHEET 83 OF 83

REVISIONS		
NAME D	ATE ILLINOIS DE	PEPARTMENT OF TRANSPORTATION
SIGN FACING DIR 9/	12/03 I-74 PRO	OJECT STANDARD 733002-I74
	SIGN SU	IPPORT, PARAPET MOUNTED, TYPE 1
		DRAWN BY
	DATE 1/31/03	CHECKED BY

:/Proj3573/Sign Structures/Contract 10/sp1005-7Apar

SHEET NUMBER	TITLE
1-2 3 4 5	INDEX OF SHEETS, COMMITMENTS, GENERAL NOTES, AND UTILITY/AGENCY CONTACTS BILL OF MATERIALS LEGEND SYSTEM COMPONENT LOCATION MAP
6-9	MICROWAVE DETECTOR SUBSYSTEM
6 7 8 9	MDS-174-02 (STA 143+215) MICROWAVE DETECTOR STATION SITE LAYOUT MICROWAVE DETECTOR MOUNTING DETAILS MICROWAVE DETECTOR STATION INSTALLATION DETAILS NONINTRUSIVE DETECTOR POLE FOUNDATION DETAIL
10-11	FIBER OPTIC COMMUNICATIONS SUBSYSTEM
10 11	FIBER OPTIC COMMUNICATIONS SYSTEM LAYOUT, I-74 FROM DRIES LANE TO STA 144+250 CONDUIT DETAIL
12-13	MISCELLANEOUS DETAILS
12 13	EQUIPMENT CABINET DETAILS ITS COMPONENT IDENTIFICATION PLAQUE

STANDARD NUMBER	TITLE
701101	OFF-ROAD OPERATIONS, MULTILANE, LESS THAN 4.5 M (15')
701100	AWAY, FOR SPEEDS >= 45 MPH
701106	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 M (15') AWAY, FOR SPEEDS >= 45 MPH
701400	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY (1-1-05)
701406	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > OR = 45 MPH
701411	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > OR = 45 MPH
701601	LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NON TRAVERSIBLE MEDIAN, FOR SPEEDS < 45 MPH (REV. 1-1-00)
702001	TRAFFIC CONTROL DEVICES
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001	CONCRETE HANDHOLES

UTILITY/AGENCY CONTACTS

MR. DAN URBANIAK I-74 COORDINATOR CENTRAL ILLINOIS LIGHT COMPANY 300 LIBERTY STREET PEORIA, IL 61602 (309) 693-4731

MR. CARL ATTEBERRY MCLEOD USA 102 EAST SHAFER STREET FORSYTH, IL 62535 (217) 876-7194

MS. PAM MONK AMERITECH TELEPHONE COMPANY ENGINEERING DEPARTMENT, 2ND FLOOR 2315 NORTH KNOXVILLE AVENUE PEORIA, IL 61604 (309) 686-3324

MR. CARL DONAHUE AT&T COMMUNICATIONS 866 ROCK CREEK ROAD PLANO, IL 60545 (630) 552-4677

MS. JUDITH S. LAKE WILLIAMS COMMUNICATION ONE TECHNOLOGY CENTER P.O. BOX 22064 TC-11A TULSA, OK 74121-2064 (915) 547-9919

MR. ERICK ENRIQUEZ CENTRAL ILLINOIS LIGHT COMPANY GAS 300 LIBERTY STREET PEORIA, IL 61602 (309) 693-4882

MR. KEVIN HILLEN MANAGER ILLINOIS-AMERICAN WATER COMPANY 123 S.W. WASHINGTON PEORIA, IL 61602 (309) 671-3720

MR. THOMAS MEYER
DIRECTOR OF ENGINEERING
GREATER PEORIA SANITARY DISTRICT
2322 SOUTH DARST STREET
PEORIA, IL 61607
(309) 637-3511

MR. DAVE MARSHALL
DIRECTOR OF OPERATIONS AND MAINTENANCE
CITY OF PEORIA
3505 NORTH DRIES LANE
PEORIA, IL 61604
(309) 494-8887

MR. RICK JEREMIAH DIRECTOR OF PUBLIC WORKS CITY OF EAST PEORIA 2232 E. WASHINGTON STREET EAST PEORIA, IL 61611 (309) 698-4716

MR. JAMES BRUCE VONBRETHORST INSIGHT COMMUNICATIONS 3517 NORTH DRIES LANE PEORIA, IL 61604 (309) 686-2677

MR. PAUL WRZESZCZ SPRINT OUTSIDE PLANT ENGINEERING 5600 NORTH RIVER ROAD, SUITE 500 ROSEMONT, IL 60018 (800) 896-3025

MR. DAVID TUTTLE
MANAGER
CITY OF PEORIA EMERGENCY COMMUNICATIONS CENTER
542 SW ADAMS STREET
PEORIA, IL 61612-1552
(309) 494-8035

MR. DENNIS REINHART
DEPUTY CHIEF
EAST PEORIA PUBLIC SAFETY BUILDING
201 WEST WASHINGTON STREET
EAST PEORIA, IL 61611
(309) 698-4614

MR. RANDY LANINGA
ITS COORDINATOR
ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 4
401 MAIN STREET
PEORIA, IL 61602-1111
(309) 671-4477

MR. MICHAEL HOOVER PROJECT MANAGER MASTEC 3705 SW ADAMS STREET PEORIA, IL 61605 (309) 494-9561 F.A.I. SECTION COUNTY SHEET NO.

74 (72-7)R-3 PEORTA /360 /352

STA. TO STA.

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

ITS SHEET 1 OF 13

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ITS PLAN

INDEX OF SHEETS, STANDARDS,
COMMITMENTS, GENERAL NOTES,
AND UTILITY/AGENCY CONTACTS

SCALE
DRAWN BY MJL
DATE 11/02/04 CHECKED BY GFR

PROJECT SPECIFIC GENERAL NOTES

THE DEPARTMENT CONTACT PERSON FOR THIS CONTRACT IS RANDY LANINGA, IDOT DISTRICT 4 ITS COORDINATOR, 309-671-4477. THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE DEPARTMENT AND THE INVOLVED PARTIES AS DIRECTED BY THE DEPARTMENT.

THE ENGINEERING DESIGN IN THESE PLANS IS BASED UPON FIELD INVESTIGATIONS OF CURRENT CONDITIONS, REVIEW OF EXISTING ASBUILT DOCUMENTATION, AND INFORMATION OBTAINED FROM PRELIMINARY DESIGN DOCUMENTS FOR THE RECONSTRUCTION PROJECTS. DUE TO THE CHANGING NATURE OF THESE ITEMS, THE ACTUAL CONDITIONS MAY BE DIFFERENT THAN THOSE DEPICTED. THE CONTRACTOR SHALL VERIFY THE EXISTING FIELD CONDITIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND CORRELATE THESE CONDITIONS WITH THE PROPOSED CONSTRUCTION ACTIVITIES OF THIS AND OTHER CONTRACTS. THE CONTRACTOR SHALL IDENTIFY TO THE ENGINEER ANY SIGNIFICANT DIFFERENCES BETWEEN THESE PLANS AND THE EXISTING FIELD CONDITIONS OR PROPOSED CONSTRUCTION THAT COULD IMPACT HIS EFFORTS PRIOR TO BEGINNING WORK. CORRECTIVE ACTIONS FOR PROBLEMS ENCOUNTERED AFTER THE CONTRACTOR HAS BEGUN WORK WILL BE INCLUDED IN THE TASK UNLESS PREVIOUSLY IDENTIFIED TO THE ENGINEER.

THE CONTRACTOR SHALL BE REQUIRED TO PAY ANY UTILITY FEES FOR ELECTRICAL SERVICE INCLUDING SET-UP DELIVERY COSTS NECESSARY TO EXTEND THE UTILITY POWER TO THE ITS EQUIPMENT LOCATIONS IN ACCORDANCE WITH ARTICLE 109.05 OF THE STANDARD SPECIFICATIONS.

ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (NEC).

THE CONTRACTOR SHALL BE AWARE THAT TEST SOIL BORINGS WERE NOT MADE AT ALL LOCATIONS WHERE INTELLIGENT TRANSPORTATION SYSTEM (ITS) ELEMENTS OR RELATED EQUIPMENT ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE SITE CONDITIONS AT THESE FIELD LOCATIONS BEFORE SUBMITTING BID PROPOSALS.

ALL PROPOSED ITS WORK SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT IN CONSULTATION WITH THE DESIGN ENGINEER AND THE EQUIPMENT INTEGRATOR. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CONSTRUCTION METHODOLOGIES, AND PRODUCT MANUFACTURER SPECIFICATIONS BEFORE PROCURING AND INSTALLING ANY ITS EQUIPMENT AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT OWNERS' MANUALS AND USERS' MANUALS WITH DELIVERY OF ANY ITS EQUIPMENT AS PART OF THIS CONTRACT.

WHENEVER CONDUITS (INCLUDING SPARES) ARE INSTALLED FOR FIBER OPTIC OR ELECTRICAL POWER CABLE, A NYLON PULL ROPE WITH DETECTABLE METALLIC CONDUCTOR SHALL BE INSTALLED WITH THE CONDUIT. ALL PULL ROPE-RELATED COSTS ARE TO BE INCLUDED IN THE BID PRICE FOR CONDUIT.

EXACT FIELD LOCATIONS OF ITS EQUIPMENT SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE CARE NOT TO INSTALL ITS EQUIPMENT IN DRAINAGE AREAS.

STRUCTURAL SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE FOLLOWING DESIGN CONSULTANT:

EDWARDS AND KELCEY ATTN: MATT LETOURNEAU ONE NORTH FRANKLIN SUITE 500 CHICAGO, IL 60606

A CONCURRENT COPY OF THE SHOP DRAWINGS (STAMPED FOR INFORMATION ONLY AND NOT FOR CONSTRUCTION) SUBMITTAL SHALL BE SENT FOR INFORMATIONAL PURPOSES TO IDOT'S PROJECT IMPLEMENTATION ENGINEER AT:

401 NORTH MAIN STREET PEORIA, IL 61602

PROJECT SPECIFIC GENERAL NOTES

THE DEPARTMENT HAS SELECTED MASTEC AS THE EQUIPMENT INTEGRATOR UNDER A SEPARATE CONTRACT FOR THE ITS WORK INVOLVED IN THE I-74 RECONSTRUCTION PROJECT. THE CONTRACTOR SHALL COOPERATE WITH AND SUPPORT THE EQUIPMENT INTEGRATOR WHO SHALL BE RESPONSIBLE FOR RELOCATING AND REPROGRAMMING (WHERE APPLICABLE) THE TEMPORARY CRASH INVESTIGATION SITE SIGNS AND MOTORIST CALL BOXES, CCTV SURVEILLANCE CAMERAS, PORTABLE TRAFFIC MANAGEMENT SYSTEMS, NONINTRUSIVE DETECTOR STATIONS, AND ALL OF THEIR ASSOCIATED COMMUNICATIONS EQUIPMENT INSTALLATIONS WHENEVER A NEW TRAFFIC PATTERN IS INSTITUTED OR NEW CONSTRUCTION STAGE IS ADVANCED, IN ORDER TO BE ABLE TO USE THEM AS PART OF THE ITS SYSTEM THROUGHOUT THE DURATION OF THE CONTRACT.

NO WORK SHALL BE CONDUCTED BY THE CONTRACTOR ON ANY EXISTING STREET LIGHTING AND TRAFFIC SIGNAL CONDUIT, POLES, OR CONTROLLER CABINETS UNDER JURSIDICTION OF THE DEPARTMENT OR THE CITIES OF PEORIA AND EAST PEORIA WITHOUT FIRST NOTIFYING THE DEPARTMENT 72 HOURS BEFORE COMMENCING WORK. ALL STREET LIGHTING/TRAFFIC SIGNAL COORDINATION-RELATED WORK SHALL BE COORDINATED BY THE CONTRACTOR WITH THE DEPARTMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE THAT POWER AND COMMUNICATION CABLES WITHIN EXISTING STREET LIGHTING AND TRAFFIC SIGNAL CONDUITS, POLES, AND CONTROLLER CABINETS ARE NOT DAMAGED AS A RESULT OF DRILLING OR INSTALLING THE ITS SUBSYSTEMS IN ACCORDANCE WITH ALL REQUIREMENTS OF THE AFFECTED AGENCY AS WELL AS THE NEC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL FOR THE INSTALLATION OF ITS RELATED EQUIPMENT WITH OTHER CONTRACTS AND WORK IN THE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN VEHICULAR AND TRAFFIC PATTERNS AS REQUIRED BY THE CONTRACT PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY THE MUTCD AND ALL RULES AND REGULATIONS OF THE DEPARTMENT. THE CONTRACT MOT PLANS FOR CONSTRUCTION OF THE ITEMS IN THIS CONTRACT ARE INCLUDED FOR GENERAL ILLUSTRATION PURPOSES ONLY. THE CONTRACTOR WILL BE REQUIRED TO INSTALL ADDITIONAL SIGNS AND APPURTENANCES TO MAINTAIN SAFE CONDITIONS IN THE WORK ZONE AT ALL TIMES AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY GROUND AREAS DISTURBED DURING THE INSTALLATION OF ITS FIELD DEVICES SHALL BE REGRADED AND SEEDED TO THE SATISFACTION OF THE ENGINEER. COST FOR THIS WORK IS TO BE INCLUDED IN THE COST OF THE ASSOCIATED ITS EQUIPMENT ITEMS.

F.A.I. RTE.	SECTION	COUN	ΙΤΥ	TOTAL SHEETS	
74	(72-7)R-3	PEOR	IΑ	1360	1333
STA.		TO STA.			
FED. ROA	D DIST. NO.	ILLINOIS	FED.	AID PROJ	ECT

ITS SHEET 2 OF 13

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	REVISIONS	ILLINOIS DEPARTMENT	OF TRANSPORTATION
	NAME DA	E ITS P	
		- INDEX OF CHEET	S, STANDARDS,
		INDEX OF SHEET	S, STANDARDS, 13
Edwards		COMMITMENTS, G AND UTILITY/AGI SCALE DATE 11/02/04	ENCY CONTACTS
AND Kelceu		SCALE	DRAWN BY MJL
<u></u>		DATE 11/02/04	CHECKED BY GFR

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-7)R-3	PEORIA	/360	1334
STA.		TO STA.		
FED. RC	AD DIST. NO.	ILLINOIS FED.	AID PROJ	ECT

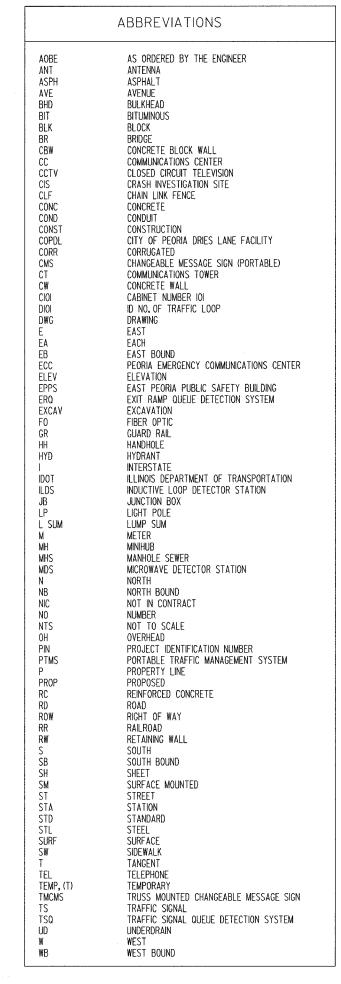
ITS BILL OF MATERIALS

		TOTAL	SCHEDU QUANT	
DESCRIPTION	UNIT	TOTAL	MDS-I74-02	FO LINK
SERVICE INSTALLATION, TYPE B	EACH	1	1	
HEAVY-DUTY HANDHOLE	EACH	3	2	1
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	204.0	56.0	148.0
CONDUIT PUSHED, 50MM DIA., PVC	METER	178.0	100.0	78.0
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	120.5	46.5	74.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	METER	109.0	109.0	
CONCRETE FOUNDATION, TYPE E 600MM DIAMETER	METER	2.5	2.5	
NONINTRUSIVE DETECTOR POLE 9.1 METER .	EACH	1	1	
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	109.0	109.0	
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1	1	

FOR INFORMATION ONLY

ITS SHEET 3 OF 13

	REVISIONS	5	THINOIS DEPARTMEN	IT OF TRANSPORTATION
	NAME	DATE		PLAN
				1 2/31
			BILL OF	MATERIALS
			0122 01	
Edwards				
AND Kelcey			SCALE	DRAWN BY MJL
Neiceg			DATE 11/02/04	CHECKED BY GFR



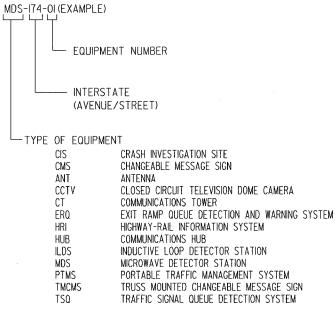
1 50	END	
FEATURE	SYMBOL-PROPOSED	SYMBOL-EXIS
TEATONE		31MDOL LAIS
CHANGEABLE MESSAGE SIGN (PORTABLE)	SIGNS CMS	ECMS
STATIC SIGN WITH BEACON FLASHERS	•HRI•	HRI
	HRI	HRI
STATIC SIGN WITHOUT BEACON FLASHERS	TMCMS	TMCM
TRUSS MOUNTED CHANGEABLE MESSAGE SIGN	THOMS	
CRASH INVESTIGATION SITE STATIC SIGN CRASH INVESTIGATION SITE PERMANENT		8
CRASH INVESTIGATION SITE TEMPORARY		
CRASH INVESTIGATION SITE CALL BOX	<u></u>	<u> </u>
PORTABLE TRAFFIC MANAGEMENT SYSTEM	<u> </u>	\ \ \
	CTORS	
MICROWAVE DETECTOR PERMANENT	7013	ПСХО
INDICATES NO COV		COVERAGE
MICROWAVE DETECTOR TEMPORARY	X O O O	COVENADE X O
INDUCTIVE LOOP DETECTOR		
DETECTOR LOOP		
TRAFFIC SIGNAL QUEUE DETECTION SYSTEM	X	
EXIT RAMP QUEUE DETECTION SYSTEM		
CAM CCTV DOME CAMERA	ERA	
COMMUN	NICATIONS	
MICROWAVE	_	
MICROWAVE SPREAD SPECTRUM	Pr##	EH+
	P ₁ +++	Et##
SPREAD SPECTRUM	P ₁ +++	E/##
SPREAD SPECTRUM COMMUNICATIONS TOWER	Pr##	
SPREAD SPECTRUM COMMUNICATIONS TOWER COMMUNICATION HUB	Pr##	
SPREAD SPECTRUM COMMUNICATIONS TOWER COMMUNICATION HUB EQUIPMENT CABINET FIBER OPTIC CABLE IN CONDUIT		
SPREAD SPECTRUM COMMUNICATIONS TOWER COMMUNICATION HUB EQUIPMENT CABINET FIBER OPTIC CABLE IN CONDUIT	▲ ■ ■ ■ ■ ■	
SPREAD SPECTRUM COMMUNICATIONS TOWER COMMUNICATION HUB EQUIPMENT CABINET FIBER OPTIC CABLE IN CONDUIT SURVEY	ING DATA	
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LEGEND				
FEATURE	SYMBOL-PROPOSED	SYMBOL-EXISTING		

	UTILITY FACILITIES			
UTILITY POLE / WOOD POLE	▼	\otimes		
CAMERA POLE AND FOUNDATION	•	[0]		
FIRE HYDRANT		Ø		
FIBER OPTIC CABLE	F0	FO		
UNDERGROUND ELECTRIC CABLE	—— Е ——	Е		
UNDERGROUND TELEPHONE CABLE	т ——	—— т——		
BURIED CABLE				
TS UNDGND CABLE				
TS GALV. STEEL CONDUIT				
WATER PIPE UNDGND				
GAS				
SANITARY SEWER		njum de nd mojon de ndem jum de ndem jum de ndem jon e		
TS HANDHOLE				
UTIL MANHOLE	•	0		
LIGHT POLE	X	¤		
TSC SERVICE INSTALL	+	Ċ		
JUNCTION BOX	0			
FIRE		—— F——		
COMMUNICATION VAULT				
SOLAR EQUIPMENT	III	III		

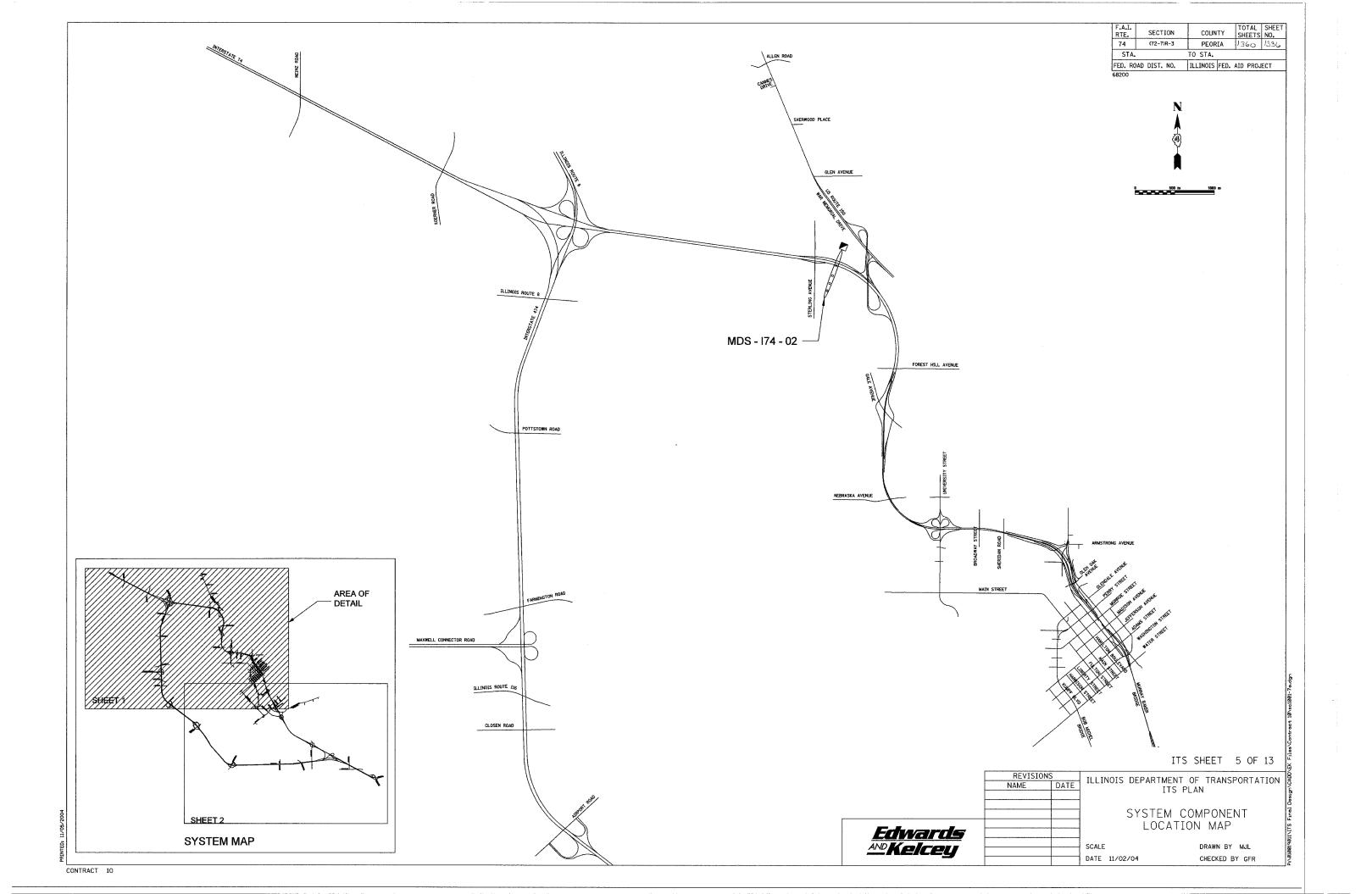
F.A.I. RTE. COUNTY TOTAL SHEET NO. SECTION (72~7)R-3 PEORIA 1360 1335 74 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

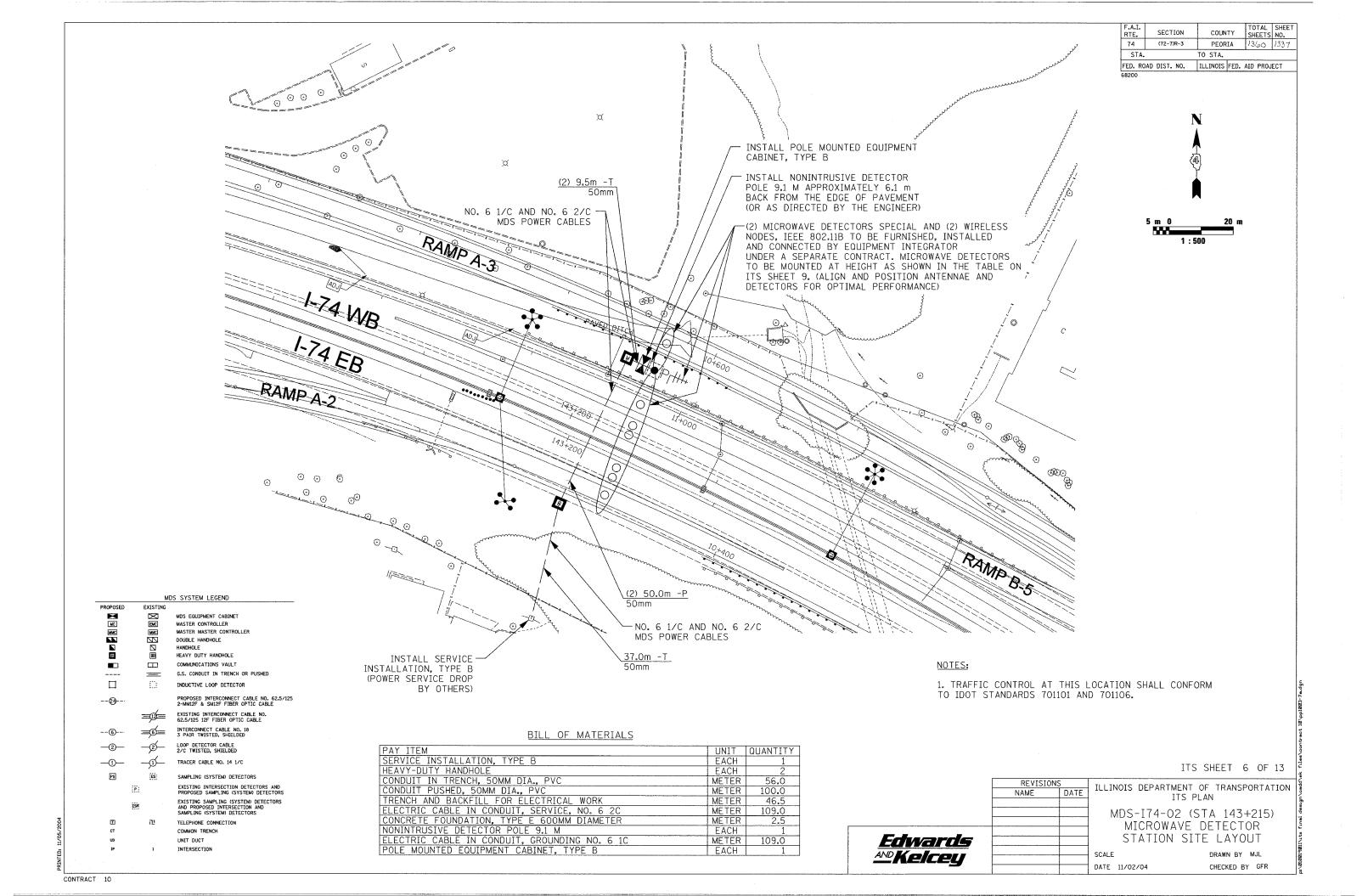
LOCATION IDENTIFICATION NUMBERS:

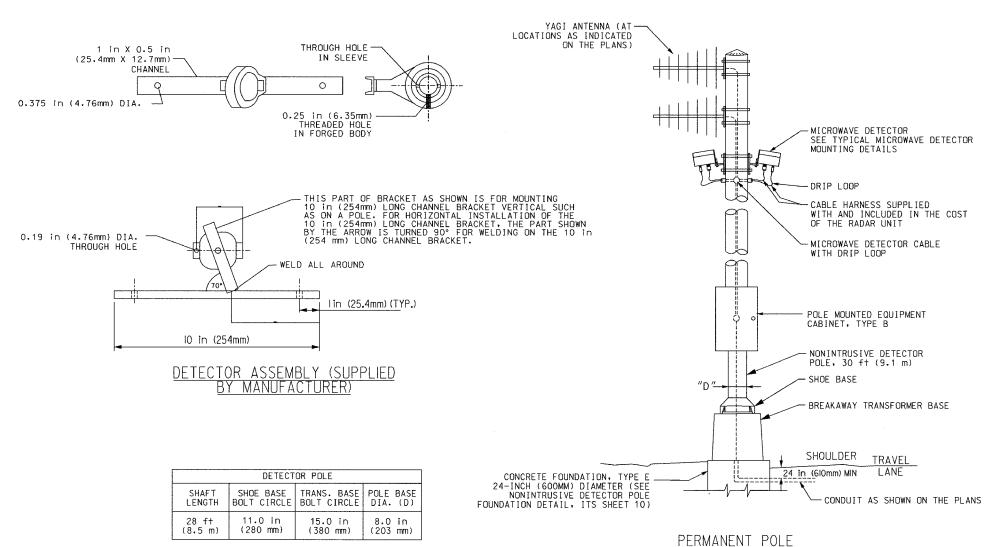


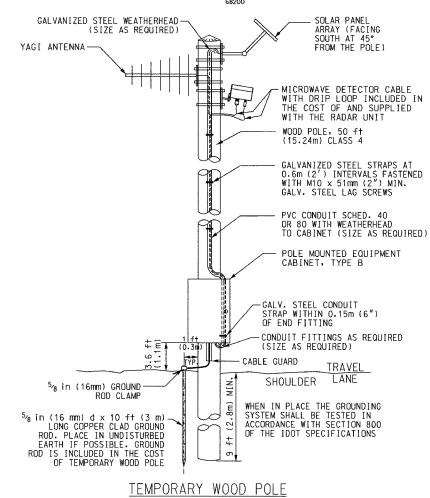
ITS SHEET 4 OF 13

						10
	REVISIONS		TILINOTS F	DEPARTMENT OF	TDANCOODT	ATION
	NAME	DATE	ILLINOIS L	ITS PLA		ATION
				II3 FLA	IN .	
			LEGEND			
			LEGEND			
Edwards						
			CONF		DDAWN DV TH	
<u> AND Kelce</u> y			SCALE		DRAWN BY TM	
			DATE 11/02/0	04	CHECKED BY MJL	









F.A.I. RTE.

74

STA.

SECTION

(72-7)R-3

SHEETS NO.

/360 /338

PEORIA

TO STA.

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

MICROWAVE DETECTOR POLE MOUNTING DETAIL

SEE MICROWAVE DETECTOR INSTALLATION DETAILS TABLE FOR POLE OFFSET AND MOUNTING HEIGHT (ITS SHEET 9)

NOTES:

- 1. ALL CABLES TO BE INSTALLED WITHIN CONDUIT AS NOTED.
- 2. CABLE/CONDUITS SHALL NOT ENTER TOPS OF ENCLOSURES. CABINETS OR PULL/JUNCTION BOXES.
- 3. CABLE HARNESS FROM POLE MOUNTED EQUIPMENT IS SUPPLIED WITH ITS ASSOCIATED EQUIPMENT. ALL STAINLESS STEEL STRAPS FOR FASTENING CABLES BRACKETS, ETC. ARE PAID FOR AS PART OF ITS ASSOCIATED EQUIPMENT. PROVIDE DRIP LOOP AT EACH CABLE TERMINATOR.
- 4. YAGI ANTENNA AND SOLAR PANEL ARRAY SHALL BE MOUNTED AS HIGH AS POSSIBLE ON THE POLE.
- YAGI ANTENNA SHALL BE AIMED AT NEAREST MICROWAVE COMMUNICATIONS LINK FOR OPTIMUM PERFORMANCE PROVIDED LINE OF SIGHT EXISTS AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

ITS SHEET 7 OF 13

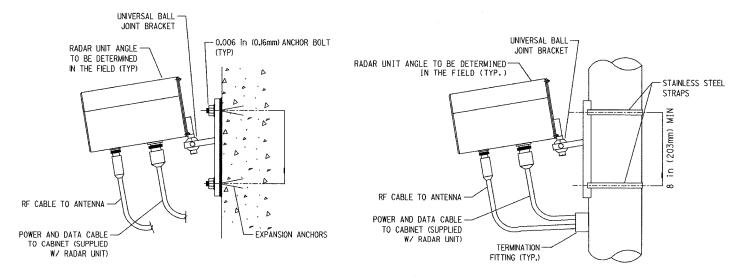
REVISIONS
NAME DATE

MICROWAVE DETECTOR

MOUNTING DETAIL

SCALE
DRAWN BY TM
DATE 11/02/04

CHECKED BY MJL



MOUNTED TO CONCRETE WALL

MOUNTED TO VERTICAL POLE

MICROWAVE DETECTOR MOUNTING DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-7)R-3	PEORIA	1360	1339
STA.		TO STA.		
FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJ	ECT
68200			****	

TABLE 1 - MICROWAVE DETECTOR LOCATIONS FOR I-74 PEORIA ITS

DETECTOR STATION	DETECTOR ID	LOCATION	DETECTOR TYPE	DETECTOR COVERAGE	COMMENTS	No OF LANES	SETBACK*	HEIGHT*
21+550	(T)MDS-1474-01	I-474 & PINECREST	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4	50' (15 m)	25' (8 m)
144+220	(T)MDS-174-01	WAR MEMORIAL DRIVE INTERCHANGE (EAST SIDE)	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	5	20' (6 m)	17' (5 m)
10+800	MDS-1474-01	I-474 & US 24 (ADAMS STREET)	PERMANENT	MAINLINE	COMBINATION RTMS/CCTV POLE	4	20' (6 m)	17' (5 m)
151+600/152+400	(T)MDS-174-02	RIVERFRONT DRIVE - MAIN STREET (EP)	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4/6	20' (6 m)	17' (5 m)
155+200	(T)MDS-174-03	WASHINGTON STREET- PINECREST DRIVE	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	4	20' (6 m)	17' (5 m)
144+750	MDS-174-03	FOREST HILL AVENUE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
146+450	MDS-174-04	NEBRASKA AVENUE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
148+825	(T)MDS-174-04	ARMSTRONG AVENUE	TEMPORARY	MAINLINE	TEMPORARY WOOD POLE	6	20' (6 m)	17' (5 m)
152+725	MDS-174-OIA	MAIN STREET (EP) INTERCHANGE (SOUTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)
143+215	MDS-174-02	STERLING AVENUE - WAR MEMORIAL DRIVE	PERMANENT	MAINLINE	PERMANENT POLE, 2 DETECTORS	6,1	20' (6 m)	17' (5 m)
152+725	MDS-I74-OIB	MAIN STREET (EP) INTERCHANGE (NORTH SIDE)	PERMANENT	MAINLINE	PERMANENT POLE	6	20' (6 m)	17' (5 m)

^{*} SEE MICROWAVE DETECTOR STATION INSTALLATION DETAILS (TABLE 2)

TABLE 2 - MICROWAVE DETECTOR INSTALLATION DETAILS

HORIZONTAL	MOU	NTING HEIGHT FT	(M)
OFFSET FT (M)	MINIMUM	MAXIMUM	RECOMMENDED
10.0 (3.0)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)
15.0 (4.6)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)
20.0 (6.1)	17.0 (5.2)	20.0 (6.1)	17.0 (5.2)
25.0 (7.6)	17.0 (5.2)	25.0 (7.6)	20.0 (6.1)
30.0 (9.1)	23.0 (7.0)	25.0 (7.6)	23.0 (7.0)
35.0 (10.7)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)
40.0 (12.2)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)
45.0 (13.7)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)
50.0 (15.2)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)

DIMENSIONS REFERENCED FROM THE EDGE OF PAVEMENT.

NOTES:

- 1. DETECTOR UNIT TO BE AIMED AT CENTER OF DETECTION ZONE. WHEN TWO DETECTORS ARE USED IN TANDEM AT A GIVEN LOCATION, WHEN TWO DETECTORS ARE USED IN TANDEM AT A GIVEN LOCATION,
 DETECTION ZONE SHALL INCLUDE ALL TRAVEL LANES IN A SINGLE
 DIRECTION NEAREST EACH DETECTOR. WHEN A SINGLE DETECTOR
 IS USED AT A GIVEN LOCATION, THE DETECTOR ZONE SHALL INCLUDE
 ALL TRAVEL LANES IN BOTH DIRECTIONS. FINAL SETUP AND CALIBRATION
 TO BE PERFORMED BY MANUFACTURER'S FIELD REPRESENTATIVE
 IN CONJUNCTION WITH THE EQUIPMENT INTEGRATOR.
- 2. DETECTOR UNIT MAY BE MOUNTED ON A TEMPORARY WOOD OR PROPOSED STEEL POLE AS INDICATED ON THE PLANS. POLE SHALL BE INSTALLED OUTSIDE OF THE CLEAR ZONE OR SHALL BE PROTECTED FROM TRAFFIC.

ITS SHEET 8 OF 13

REVISIONS NAME DATE Edwards AND Kelcey

ILLINOIS DEPARTMENT OF TRANSPORTATION

MICROWAVE DETECTOR INSTALLATION DETAIL

ITS PLAN

SCALE DRAWN BY MJL DATE 11/02/04 CHECKED BY GFR

TYPICAL MICROWAVE DETECTOR INSTALLATION CROSS SECTION VIEW

E,P.

-SEE NOTE 1

DETECTION ZONE

HORIZONTAL OFFSET (SEE TABLE 1)

SEE MICROWAVE DETCTOR
MOUNTING DETAILS (ITS SHEET 8)

45° ELEVATION BEAM-WIDTH

E.S.

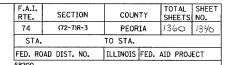
-SEE NOTE 2

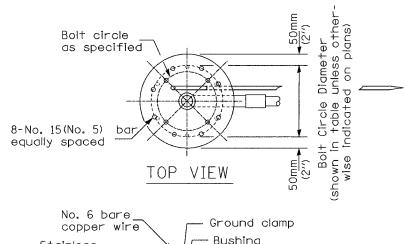
DISTANCE "X" (SEE TABLE 1)

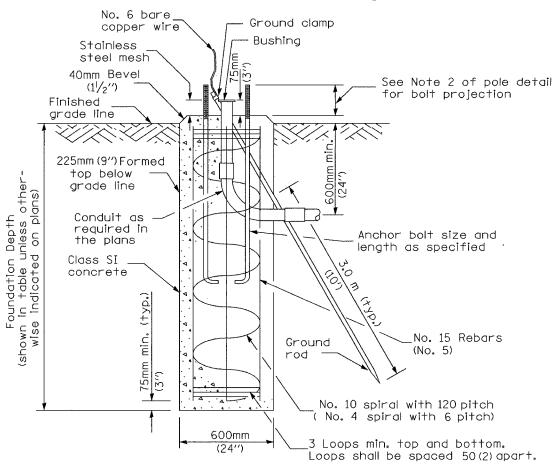
 $\widehat{\mathbf{1}}$ TABLE

DISTANCE

CONTRACT 10







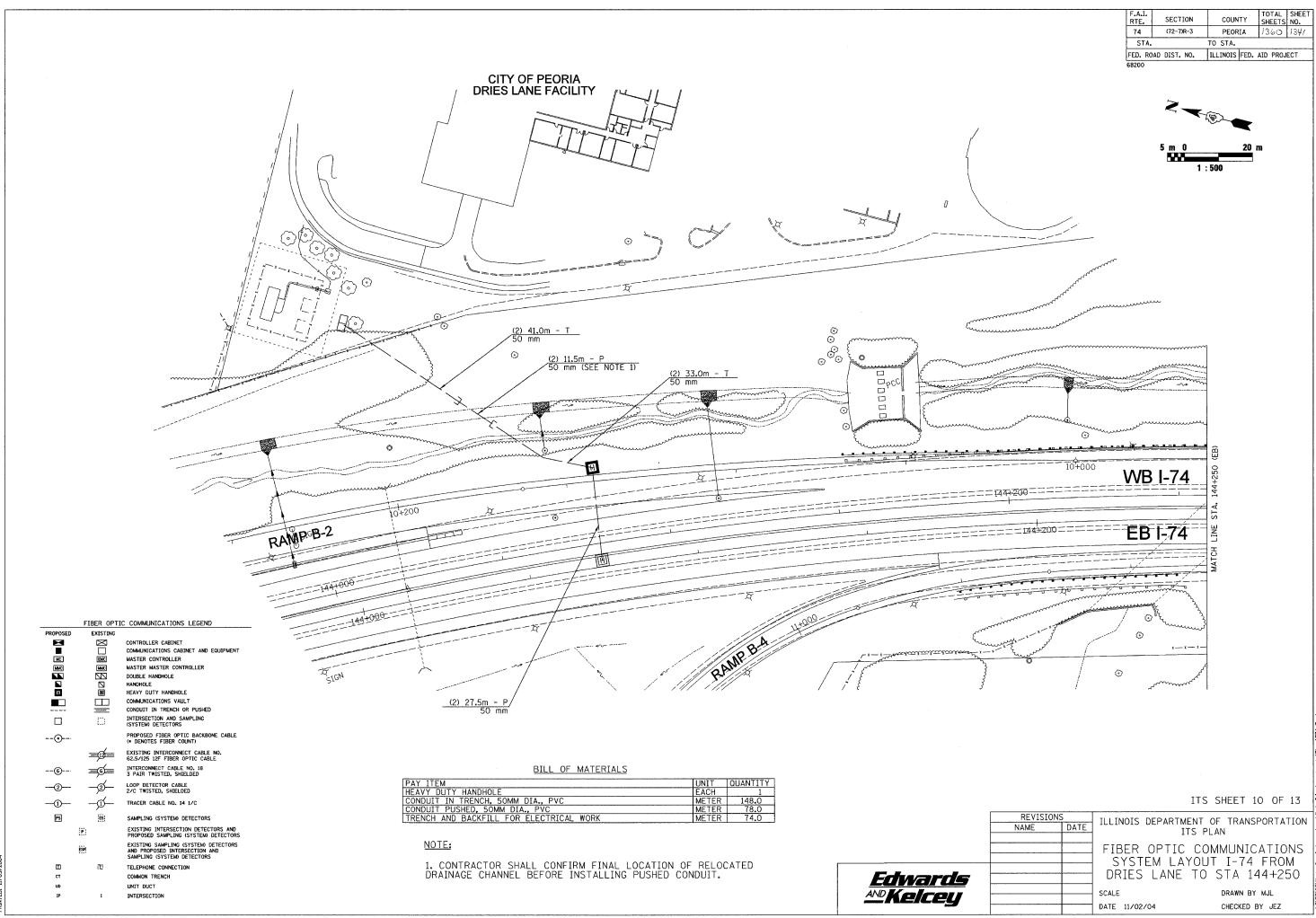
Pole Height	Bolt Circle Diameter	Foundation depth
9.1m (30')	380mm (15 _* 0'')	2.5m (8'-0'')

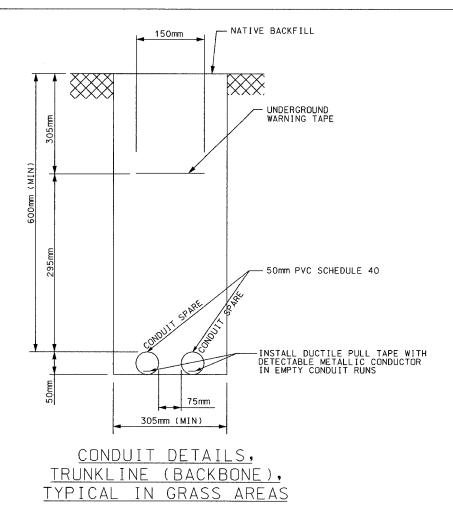
Notes:

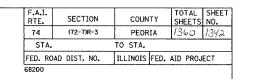
- 1. The Engineer shall determine the class of soil during excavation. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- 2. The anchor bolts and raceways shall be properly secured in place.
- 3. Concrete shall be class "SI" Concrete and the foundation must be cured for ten (10) days before the pole is erected.
- 4. The cable trench shall be backfilled and firmly compacted before the pole is erected.
- 5. For sloping grades, the foundation design depth shall be increased by the corresponding cross slope shaft depth increase factor given by:
 - A. Cohesive soil cross slope shaft increase factor 0.009 x (slope angle) + 1.0
 - B. Granular soil cross slope shaft increase factor 0.00005 x (slope angle) + 1.0
- 6. Install grounding system in accordance with Section 807 of the IDOT Standard Specifications.

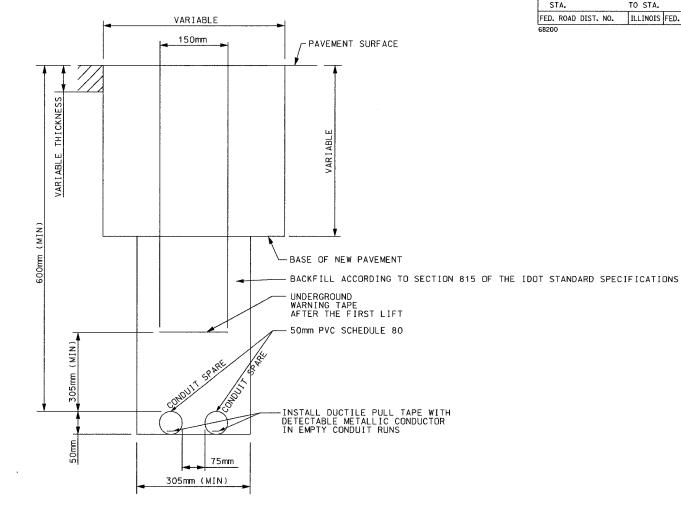
ITS SHEET 9 OF 13

	REVISIONS	ŝ	TILIMOTS DEDARTM	IENT OF TRANSPORTATION
	NAME	DATE		TS PLAN
			NONINTRUS	SIVE DETECTOR
Edwards .			FOUNDA	POLE TION DETAIL
•Kelcey			SCALE	DRAWN BY CADD
			DATE 11/02/04	CHECKED BY MJL









CONDUIT DETAILS,
IN RECONSTRUCTED CONCRETE
OR BITUMINOUS SHOULDER,
TRAVELED WAY OR RAMP AREA

NOTES:

- PVC CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 810 OF THE IDOT STANDARD SPECIFICATIONS.
- TRENCH AND BACKFILL SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 815 OF THE IDOT STANDARD SPECIFICATIONS.
- WARNING TAPE SHALL BE ORANGE, 0.1mm FLEXIBLE POLYETHYLENE FILM WICH SHALL BE RESISTANT TO ACIDS, BASES, HYDROCARINS, AND WATER.
- TRENCH BOTTOM SHALL BE PREPARED TO ELIMINATE LUMPS. RIDGES, JAGGED EDGES, AND HOLLOWS UTILIZING BEDDING MATERIALS AS DIRECTED BY THE ENGINEER.

CAUTION CAUTION CAUTION

BURIED FIBER OPTIC CABLE BELOW

WARNING TAPE DETAIL

(BLACK LETTERS ON ORANGE BACKGROUND)

ITS SHEET 11 OF 13

REVISIONS
NAME DATE

CONDUIT DETAIL

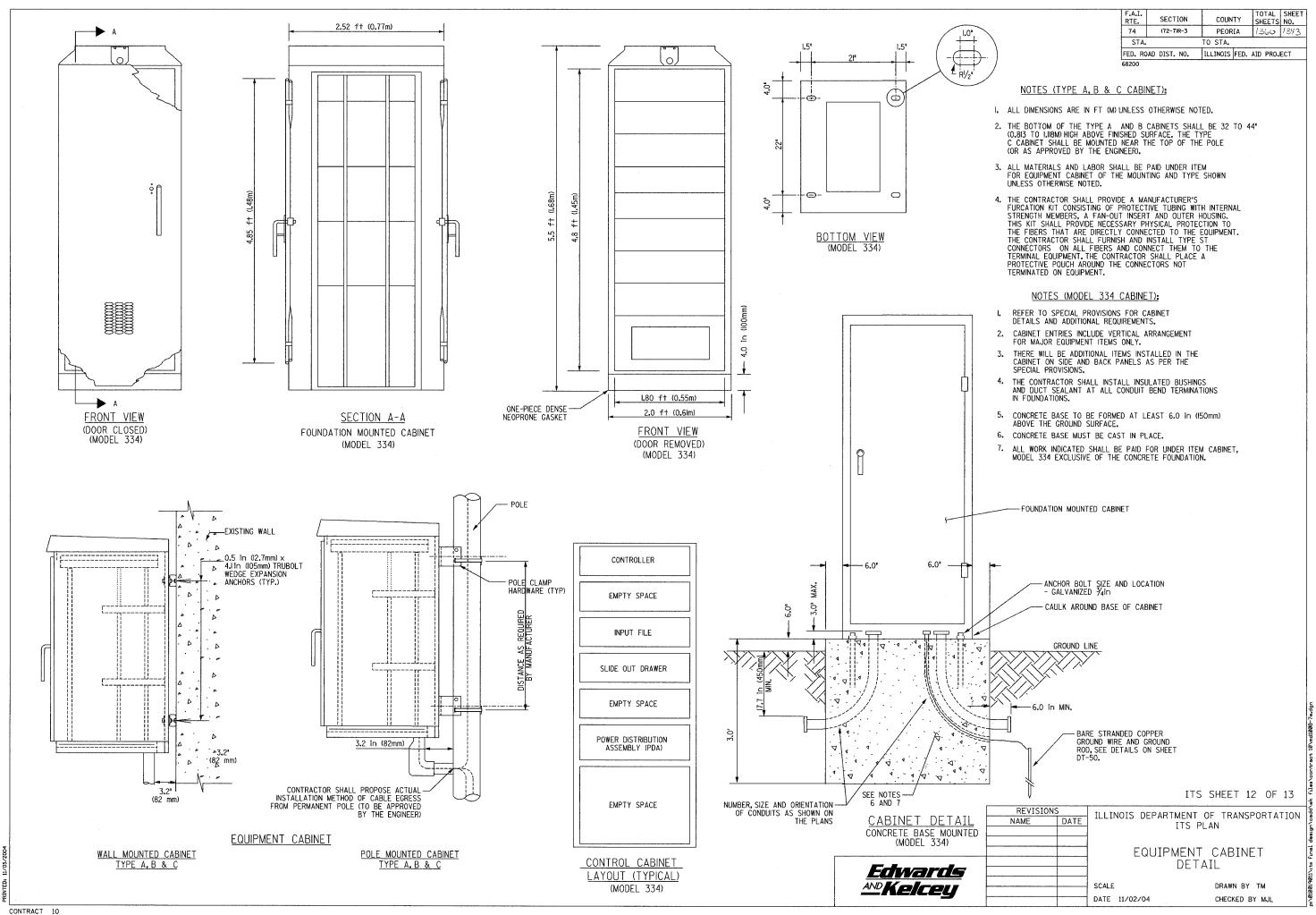
SCALE DRAWN BY SD

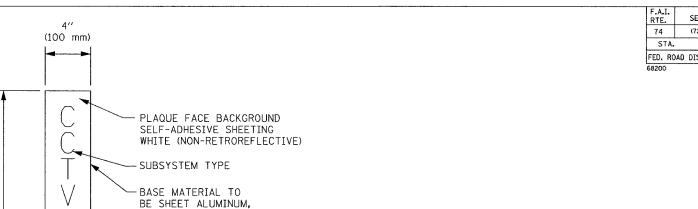
Edvards AND Kelcey

SCALE
DATE 11/02/04

DRAWN BY SD CHECKED BY JEZ

£ ____





 $\frac{1}{8}$ " (3 mm) THICKNESS

VINYL CUTOUTS (TYP.)

SUBSYSTEM NUMBER

- ROUTE

IDENTIFICATION PLAQUE DETAIL

1/2" (13 mm) WIDE SELF-ADHESIVE

SPACING BETWEEN LETTERS

(IF QUANTITY OF NUMERALS OR LETTERS IS LESS THAN SHOWN, LEAVE SPACE AT RIGHT SIDE OF PLAQUE)

AND NUMBERS TO BE $\frac{1}{2}$ " (13 mm)

F.A.I. RTE. SECTION COUNTY SHEETS NO.

74 (72-7)R-3 PEORIA (340 1344

STA. TO STA.

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

LEGEND

SUBSYSTEM TYPE

CIS - CRASH INVESTIGATION SITE
CCTV - CLOSED CIRCUIT TELEVISION

CMS - CHANGEABLE MESSAGE SIGN

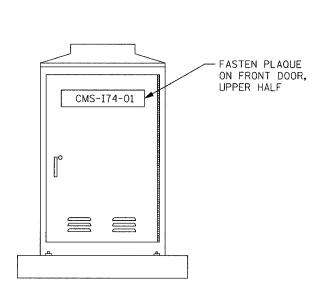
HUB - COMMUNICATIONS HUB

ILDS - INDUCTIVE LOOP DETECTOR STATION

MDS - MICROWAVE DETECTOR STATION

NOTES:

- 1. IDENTIFICATION PLAQUES TO FOLLOW SECTION 1069.02 OF THE IDOT STANDARD SPECIFICATIONS.
- 2. SUBSYSTEM NUMBERING SCHEME TO BE DETERMINED BY THE DEPARTMENT IN CONSULTATION WITH THE EQUIPMENT INTEGRATOR AND DESIGN ENGINEER BEFORE IDENTIFICATION PLAQUES ARE PROCURED AND INSTALLED BY THE CONTRACTOR.
- 3. FOR POLE-MOUNTED CABINETS, IDENTIFICATION PLAQUES SHALL ONLY BE INSTALLED ON THE POLES.



22" (560 mm)

CONTROL CABINET

IDENTIFICATION PLAQUE DETAIL

ROUTE SUBSYSTEM

NUMBER

PLAQUE FACE BACKGROUND SELF-ADHESIVE SHEETING WHITE (NON-RETROREFLECTIVE)

SPACING BETWEEN LETTERS

(IF QUANTITY OF NUMERALS

OR LETTERS IS LESS THAN

SHOWN, LEAVE SPACE AT

RIGHT SIDE OF PLAQUE)

AND NUMBERS TO BE 1/2" (13 mm)

SUBSYSTEM

TYPE

LETTERS AND NUMBERS 2"

(50 mm) SERIES "D" SELF

BASE MATERIAL TO

BE SHEET ALUMINUM, 1/8" (3 mm) THICKNESS

ADHESIVE VINYL CUTOUTS

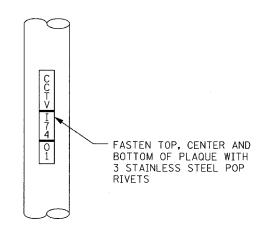
4¹/₂" (115 mm)

CONTROL CABINET

IDENTIFICATION PLAQUE

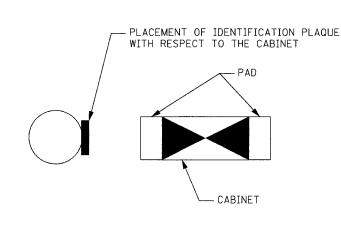
REQUIREMENTS AND PLACEMENT

(TYPICAL ALL CONTROL CABINETS)



POLE MOUNT
IDENTIFICATION PLAQUE
REQUIREMENTS AND PLACEMENT

(TYPICAL ALL CAMERA POLES)



ITS SHEET 13 OF 13

Edwards
AND Kelcey
St.

REVISIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION
ITS PLAN
ITS COMPONENT

ITS COMPONENT
IDENTIFICATION
PLAQUE DETAILS

SCALE DATE 11/02/04 DRAWN BY CADD CHECKED BY MJL

CONTRACT 60

INDEX OF SHEETS

- 1345 1. COVER SHEET
- 346 2. LISTING OF STANDARDS
- 347 3. BILL OF MATERIALS
- 1348- 4.-5. TYPICAL SECTIONS
- 6.-7. SCHEDULE OF QUANTITIES
- 352 8. MAINTENANCE OF TRAFFIC
- 1322 O. MAINTENANTOL OF TH
- 1353 9.-11. ROADWAY PLANS
- 1356 12. BUTT JOINT (SPECIAL) DETAIL
- 1357 13.–16. DISTRICT CADD STANDARDS

DESIGN DESIGNATION

FAI ROUTE 74 - 7625 (25) INTERSTATE 38.28

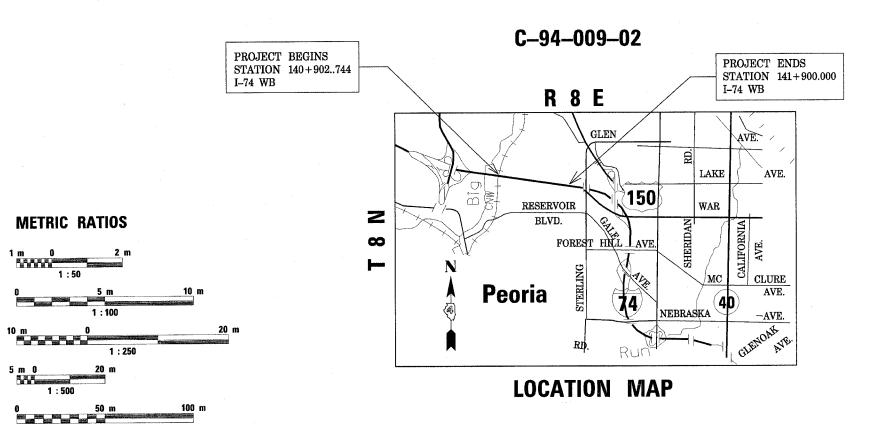
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 74 (I-74) SECTION (72-7)R-3 PROJECT PEORIA COUNTY



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.

MET LENGTH OF IM

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

CONTRACT NO. 68200

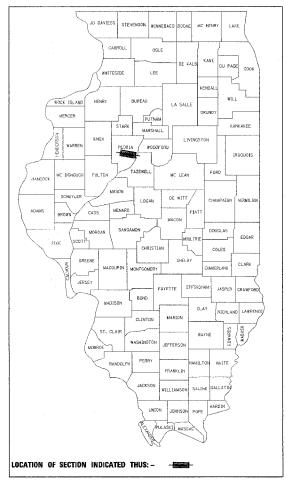
CATALOG NO. 031087-17D

GROSS LENGTH OF IMPROVEMENT: 1.000 km (0.621 MILES)
NET LENGTH OF IMPROVEMENT: 1.000 km (0.621 MILES)

F.A.I. SECTION COUNTY TOTAL SHEET NO.

68200

D-94-009-02



QC/QA BITUMINOUS

BITUMINOUS SUPERPAVE

PLAN SET #4

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

F.A.I. SECTION COUNTY SHEETS NO. 74 (72-7)R-3 PEORIA /360 /346 FED. ROAD DIST. NO. 4 | ILLINOIS | FED. AID PROJECT

68200

442101 CLASS B PATCHES

630001 STEEL PLATE BEAM GUARDRAIL

630301 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TREATMENTS

635006 REFLECTOR AND TERMINAL MARKER PLACEMENT

701101 OFF ROAD OPERATIONS, MULTILANE LESS THAN 4.5 m AWAYFOR SPEEDS >= 45 MPH

701400 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY

701401 LANE CLOSURE FREEWAY/EXPRESSWAY

701406 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY

701426 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS >= 45 MPH

702001 TRAFFIC CONTROL DEVICES

780001 TYPICAL PAVEMENT MARKINGS

781001 TYPICAL APPLICATIONS OF RAISED REFLECTIVE PAVEMENT MARKERS

DISTRICT CADD STANDARDS

406101 - D4 BUTT JOINTS

440001 - D4 BITUMINOUS SURFACE REMOVAL (COLD MILLING)

836002 - D4 DETAIL FOR TRAFFIC COUNTERS USING TERMINAL FACILITY

I-74 PROJECT STANDARDS

642001 - I-74 I-74 SHOULDER RUMBLE STRIPS

GENERAL NOTES

SEE MASTER GENERAL NOTES FOR APPLICABLE GENERAL NOTES FOR THIS PLAN SET

REVISI NAME	ONS DATE	ILLINOIS DEPARTMENT OF TRANSPORT	ATION
		STANDARDS	
		GENERAL NOTES	
		DRAWN BY CEM	
		DRAWN BY CEM DATE 08/10/04 CHECKED BY CEM	

								0% FED STATE			RBAN / IM				FED S% CITY		90% F 10% C	
DILL OF MATERIALS FOR DLAN SET #4					T		1	1	1	CONSTRU	CTION TYPE COE	E	TRAFFIC		TRAFFIC		TRAFFIC	
BILL OF MATERIALS FOR PLAN SET #4 FOR INFORMATION ONLY			ROADWAY	ROADWAY	BRIDGE	BRIDGE (2)	BRIDGE (3)	BRIDGE (4)	MINOR STRUCTURES (5)	OVERHEAD SIGNS	LIGHTING	ITS	SIGNAL INTERCONNECT (6)	TRAFFIC SIGNALS (6)	SIGNAL INTERCONNECT (7)	TRAFFIC SIGNALS (7)	SIGNAL INTERCONNECT (8)	TRAF SIGN (8
DDE NO. PAY ITEM 00167 TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	UNIT	TOTAL QUANTITY 2	1000-2A 2	J000-2A	X271-2A	X281-2A	X781-2A	X028-2A	Y007	Y002-1C	Y030-1E	Y035	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031
00100 RAISED REFLECTIVE PAVEMENT MARKERS	EACH	82	82									-						
201000 TERMINAL MARKER DIRECT APPLIED	EACH	2	2															
00200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	82	82															
001000 TERMINAL FACILITY	EACH	1	1															
60200 BITUMINOUS MATERIALS (PRIME COAT)	MTON	8.7	8.7	-														
60300 AGGREGATE (PRIME COAT)	MTON	47	47														1	
160980 BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SO.M	417	417															
050990 TEMPORARY RAMP	SQ.M	47	47															+
00040 BITUMINOUS SURFACE REMOVAL 40 MM	SQ.M	13,970	13,970															
26245 CLASS B PATCHES TYPE II 350 MM	SQ.M	601	6Ø1												-			
29400 SAW CUTS	METER	1283	1283															
312000 AGGREGATE SHOULDERS, TYPE B	MTON		516															
	MTON	516 1212	1212															
20000 BITUMINOUS SHOULDERS			23									-						
20030 GUARDRAIL REMOVAL	METER	23			-													
330610 REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL	METER	556	556															
030100 SHORT TERM PAVEMENT MARKING	METER	987	987									_						
30220 TEMPORARY PAVEMENT MARKING - LINE 100 MM	METER	3995	3995															
30240 TEMPORARY PAVEMENT MARKING - LINE 150 MM	METER	500	500															1. 1
31000 WORK ZONE PAVEMENT MARKING REMOVAL	S0.M	30	30											,				
902010 POLYUREA PAVEMENT MARKING TYPE 1 - LINE 100 MM	METER	3995	3995															
02015 POLYUREA PAVEMENT MARKING TYPE 1 - LINE 150 MM	METER	500	500															
00240 CONDUIT IN TRENCH, 30 MM DIA., PVC	METER	39	39															
50205 TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	METER	10	10															
31510 ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 18 3 PAIR	METER	45	45															
50200 TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	33	33															
60400 DETECTOR LOOP, SPECIAL	METER	46	46											AND				
32083 GUARDRAIL AGGRECATE EROSION CONTROL	MTON	111	111															
06066 POLYMERIZED BIT CONC SURFACE COURSE, SUPERPAVE, MIX E, N90, 38MM	MTON	1328	1328															1
106248 POLYMERIZED BIT CONC BINDER COURSE, SUPERPAVE, IL 19.0, N90, 57MM	MTON	1992	1992															
17205 DOWEL BARS 38 MM	EACH	1740	1740															_
001603 BITUMINOUS SURFACE REMOVAL - BUTT JOINT (SPECIAL)	SQ.M	611	611														-	#
00554 PARTIAL DEPTH PATCHING (SPECIAL)	S0.M	211	211								-							
					_		1								 			

REVISIONS	
NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
	- BILL OF MATERIALS
	FAI ROUTE 74 (I-74)
	DRAWN BY CEM

CHECKED BY CEM

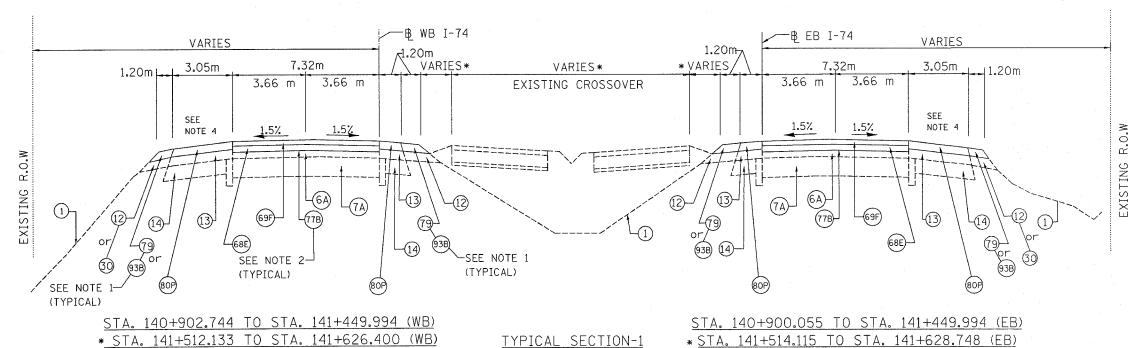
DATE 9/29/04

[•] SPECIALTY ITEMS
+ FUND CODE SFTY-3N
++ FUND CODE Y080
+++ FUND CODE SFTY-3C

\$\triangle\$ NON PARTICIPATING

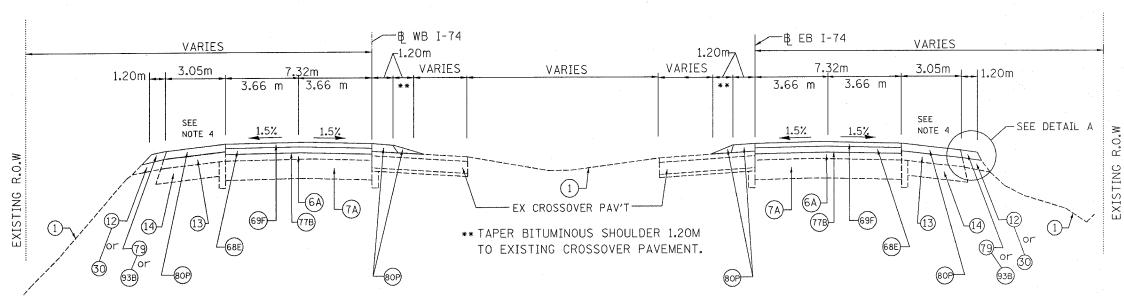
⁽¹⁾ RAMP A-3 OVER RAMP B-5, SN 072-0172 (2) RAMPS B-3 & B-5 OVER US 150 & RAMP B-6, SN 072-0190 (3) RAMPS B-1 & B-4 OVER RAMPS A-3, B-3 & I-74, SN 072-0183 (4) SN 072-2005, 072-2030 & 072-2032 (5) SN 072-8618 & SN 072-8619

⁽⁶⁾ WAR MEMORIAL DRIVE / STERLING / GLEN (7) WAR MEMORIAL DRIVE / SCENIC DRIVE (8) SCENIC DRIVE / MALL ENTRANCE



TYPICAL SECTION-1

FAI ROUTE 74 (I-74)



STA. 141+626.400 TO STA. 141+693.400 (WB)

STA. 141+449.994 TO STA. 141+512.133 (WB)

TYPICAL SECTION-2 FAI ROUTE 74 (I-74) STA. 141+449.994 TO STA. 141+514.115 (EB) STA. 141+628.748 TO STA. 141+693.403 (EB)

* STA. 141+514.115 TO STA. 141+628.748 (EB)

STA. 141+693.403 TO STA. 141+900.000 (EB)

NOTES

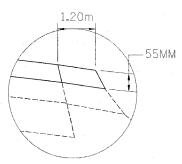
- 1. USE GUARDRAIL AGGREGATE EROSION CONTROL AT THE FOLLOWING STATIONS:
- EB STATION 141+262.435 RT TO STATION 141+423.000 RT EB STATION 141+593.770 RT TO STATION 141+635.150 RT
- WB STATION 140+902.744 LT TO STATION 141+029.760 LT WB STATION 140+902.744 RT TO STATION 140+928.500 RT
- WB STATION 141+500.000 LT TO STATION 141+746.575 LT
- 2. BITUMINOUS SURFACE REMOVAL SHALL INCLUDE REMOVAL OF EXISTING AREA CRACK CONTROL AT THE BASE OF THE EXISTING SURFACE COURSE
- 3. PARTIAL DEPTH PATCHING (SPECIAL) WILL BE REQUIRED ON THE EASTBOUND I-74 OUTSIDE SHOULDER PRIOR TO BITUMINOUS OVERLAY. SEE SCHEDULE OF QUANTITIES FOR APPROXIMATE LOCATIONS AND QUANTITIES.
- 4. MATCH EXISTING BITUMINOUS AND AGGREGATE SHOULDER SLOPES ON INSIDE AND OUTSIDE SHOULDERS UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECT	ION	COUN	ΤΥ	TOTAL SHEETS	SHEET NO.
74	(72:3	08:3	eeqe	BIA	1360	1348
STATO STA						
EED DO	TOTAL OVE	N/O A	DEFINATE	EED	ATI) PDA	ECT

68200

LEGEND:

- (1) EX GROUND
- (6A) EX BITUMINOUS RESURFACING
- (7A) EX PCC PAVEMENT, 250
- (12) EX AGGREGATE SHOULDER
- (13) EX BITUMINOUS SHOULDER
- (14) EX PCC SHOULDER
- (30) EX GUARDRAIL AGGREGATE EROSION CONTROL
- (68E) PR POLYMERIZED BIT CONCRETE BINDER CSE, SUPERPAVE 57MM
- (69F) PR POLYMERIZED BIT CONCRETE SURFACE CSE, SUPERPAVE 38MM
- (77B) PR BITUMINOUS SURFACE REMOVAL, 40MM
- PR AGGREGATE SHOULDERS, TY B
- PR BITUMINOUS SHOULDERS
- 93B) PR GUARDRAIL AGGREGATE EROSION CONTROL



DETAIL A TYPICAL FOR AGGREGATE SHOULDER OR GUARDRAIL AGGREGATE EROSION CONTROL

CHECKED BY CEM

REVISION	IS	
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
		T-74 RESURFACING
		TYPICAL SECTIONS
		DRAWN BY CEM

STA. 141+693.400 TO STA. 141+900.000 (WB)

TYPICAL SECTION-3 FAI ROUTE 74 (I-74)

NOTES

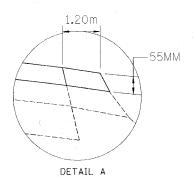
- 1. USE GUARDRAIL AGGREGATE EROSION CONTROL AT THE FOLLOWING STATIONS:
- EB STATION 141+262.435 RT TO STATION 141+423.000 RT EB STATION 141+593.770 RT TO STATION 141+635.150 RT
- WB STATION 140+902.744 LT TO STATION 141+029.760 LT
- WB STATION 140+902.744 RT TO STATION 140+928.500 RT
- WB STATION 141+500.000 LT TO STATION 141+746.575 LT
- 2. BITUMINOUS SURFACE REMOVAL SHALL INCLUDE REMOVAL OF EXISTING AREA CRACK CONTROL AT THE BASE OF THE EXISTING SURFACE COURSE
- 3. PARTIAL DEPTH PATCHING (SPECIAL) WILL BE REQUIRED ON THE EASTBOUND I-74 OUTSIDE SHOULDER PRIOR TO BITUMINOUS OVERLAY. SEE SCHEDULE OF QUANTITIES FOR APPROXIMATE LOCATIONS AND QUANTITIES.
- 4. MATCH EXISTING BITUMINOUS AND AGGREGATE SHOULDER SLOPES ON INSIDE AND OUTSIDE SHOULDERS UNLESS NOTED OTHERWISE

The same	F.A.I. RTE.	SECTION	COUN	ΤΥ	TOTAL SHEETS	SHEET NO.		
i	_74_	(72:7)8:3_	LEEQE	RIA	1360	1349		
	STA TO STA.							
	FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT							

68200

LEGEND:

- (1) EX GROUND
- (6A) EX BITUMINOUS RESURFACING
- (7A) EX PCC PAVEMENT, 250
- (12) EX AGGREGATE SHOULDER
- (13) EX BITUMINOUS SHOULDER
- (14) EX PCC SHOULDER
- (30) EX GUARDRAIL AGGREGATE EROSION CONTROL
- (68E) PR POLYMERIZED BIT CONCRETE BINDER CSE, SUPERPAVE 57MM
- PR POLYMERIZED BIT CONCRETE SURFACE CSE, SUPERPAVE 38MM
- 77B) PR BITUMINOUS SURFACE REMOVAL, 40MM
- PR AGGREGATE SHOULDERS, TY B
- PR BITUMINOUS SHOULDERS
- (93B) PR GUARDRAIL AGGREGATE EROSION CONTROL



TYPICAL FOR AGGREGATE SHOULDER OR GUARDRAIL AGGREGATE EROSION CONTROL

REVISIONS	
NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
*	
	I-74 RESURFACING
	TYPICAL SECTIONS
	DRAWN BY CEM
	DATE 6/18/04 CHECKED BY CEM

68200

		TA	ABULATI	ON OF RE	ESURFACIN	G QUANTI	TIES					
LOCATION	TOTAL ROADWAY	LENGTH	AREA	BITUMINOU SURFACE REMOVAL	BITUMINOUS MATERIALS PRIME	AGGREGATE MATERIALS PRIME	BIT CONC BINDER CSE SUPERPAVE	BIT CONC SURF CSE SUPERPAVE	BITUM SHOUI		SHOU	REGATE JLDERS PE B
	WIDTH			40MM	COAT	COAT	57MM	38MM	INSIDE	OUTSIDE	INSIDE	OUTSIDE
	М	М	SQ M	SQ M	M TON	M TON	M TON	M TON	M TON	M TON	M TON	M TON
EASTBOUND I-74												
STA. 140 + 900.055 TO 141 + 449.994	7.32	549.94	4025.55	3893.79	2.35	12.72	548.40	365.60	89.90	228.50	93.54	66.22
STA. 141 + 449.994 TO 141 + 514.115	7.32	64.12	469.37	469.37	0.29	1.64	63.94	42.63	15.72	26.64	0.00	10.90
STA. 141 + 514.115 TO 141 + 628.748	7.32	114.63	839.09	839.09	0.49	2.66	114.31	76.21	18.74	47.62	19.50	12.46
STA. 141 + 628.748 TO 141 + 693.403	7.32	64.66	473.27	473.27	0.29	1.65	64.47	42.98	15.85	26.86	0.00	11.00
STA. 141 + 693.403 TO 141 + 900.000	7.32	206.60	1512.29	1319.04	0.89	4.78	206.62	137.35	33.77	85.84	35.14	35.14
·												
					:							
WESTBOUND I-74												
STA. 140 + 902.744 TO 141 + 449.994	7.32	547.25	4005.87	3874.11	2.34	12.66	545.72	363.81	89.46	227.38	85.42	68.83
STA. 141 + 449.994 TO 141 + 512.133	7.32	62.14	454.86	454.86	0.28	1.59	61.97	41.31	15.24	25.82	0.00	0.00
STA. 141 + 512.133 TO 141 + 626.400	7.32	114.27	836.43	836.43	0.49	2.64	113.95	75.96	18.68	47.48	18.72	0.00
STA. 141 + 626.400 TO 141 + 693.400	7.32	67.00	490.44	490.44	0.28	1.55	66.81	44.54	16.43	27.84	0.00	0.00
STA. 141 + 693.400 TO 141 + 900.000	7.32	206.60	1512.31	1319.06	0.95	5.43	206.02	137.35	67.55	85.84	33.84	25.13
GRAND TOTAL				13,970	8.7	47	1,992	1,328	381	830	286	230

** Guardrail Aggregate Erosion Control will be used at locations of existing guardrail and proposed Traffic Barrier Terminal, Type 1 Special (Tangent). See Guardrail Aggregate Erosion Control Schedule for locations.

PRIME COAT CONVERSION FACTORS		
	BIT PR COAT	AGG PR COAT
SURFACE TYPE	(L/M2)	(KG/M²)
COLD MILLED SURFACES	0.5	2
EXISTING PAVEMENT	0.2	2
NEW BITUMINOUS COURSES	0.1	1
1L = 0.00095 METRIC TON		
BITUMINOUS & AGGREGATE CONVERSION	FACTORS	
SURFACE TYPE		
BIT. SURF. COURSES	2.39 kg / mm²m	
ALL OTHER BITUMINOUS	2.39 kg / mm²m	
AGGREGATE SHOULDERS	2.43 m ton / m ³	

REVISION	IS	
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
		SCHEDULE OF QUANTITIES
		RESURFACING QUANTITIES
		DRAWN BY CEM

CHECKED BY CEM

DATE 08/05/04

BITUMINOUS SURFACE REMO	VAL - B	UTT JOINT	
Location		SQ. M	
Eastbound I-74			
140+900.055 to 140+918.055		208.3	
Westbound I-74			
140+902.744 to 141+920.744	208.3		
TOTAL		416.6	
	SAY	417	

BIT SURFACE REMOVAL-BUTT JOINT	(SPECIAL)
Location	SQ. M
Eastbound I-74	
141+873.600 TO 141+900.000	305 . 5
Westbound I-74	
141+873.600 TO 141+900.000	305.5
TOTAL	611

TEMPORARY RAMPS		
Location		SQ. M
Eastbound I-74		
140+900.055 to 140+901.655		11.7
141+898.400 to 141+900.000		11.7
Westbound I-74		
140+902.744 to 141+904.344		11.7
141+898.400 +o 141+900.000		11.7
TOTAL		46.8
	SAY	47

r			
PARTIAL DEPTH PATCHING (SPECIAL)	
Location	L(M)	W(M)	Each
Eastbound I-74		0S Shldr	
140+957.000 +o 140+960.000	3	1.2	3.6
141+053.000 +o 141+057.500	4.5	1.2	5.4
141+060.500 to 141+063.500	3	1.2	3.6
141+083.000 to 141+089.000	6	0.6	3.6
141+175.000 to 141+190.250	15.3	0.6	9.2
141+413.500 to 141+416.500	3	1.2	3.6
141+427.500 to 141+436.500	9	0.6	5.4
141+478.250 to 141+493.200	15	3	45
141+463.000 to 141+472.000	9	1.2	10.8
141+575.000 +o 141+580.000	5	1.2	6
141+583.500 to 141+618.550	35.1	1.2	42.1
141+683.000 to 141+689.000	6	1.8	10.8
141+742.250 to 141+787.95	45.7	0.6	27.4
141+777.500 to 141+783.500	6	1.2	7.2
141+821.500 +o 141+867.300	45.8	0.6	27.5
TOTAL			211.2
		SAY	211

REMOVE AND RE-ERECT STEEL PLATE BEAM GUARI	DRAIL
Location	Meter
Eastbound I-74	
141+280.635 RT to 141+422.456 RT	142
141+611.970 RT to 141+634.892 RT	23
Westbound I-74	
140+902.744 LT to 141+011.560 LT	109
140+902.744 RT to 140+952.768 RT	54
141+500.000 LT +o 141+728.375 LT	228
TOTAL	556

TRAFFIC BARRIER TERMINAL. TY 1	SPL (Tangent)
Location	Each
Eastbound I-74	
141+265.435 to 141+280.635 RT	1
Westbound I-74	
141+011.560 to 141+026.760 LT	1
TOTAL	2

TERMINAL MARKER DIRECT APPLIED	
Location	Each
Eastbound I-74	
141+265.435	1
Westbound I-74 141+026.760	1
TOTAL	2

GUARDRAIL REMOVAL		
Location		Meter
Eastbound I-74		
141+269.235 to 141+280.635 RT	-	11.4
Westbound I-74		
141+011.560 to 141+022.960 LT		11.4
TOTAL		22.8
	SAY	23

CLASS B PATCH TYPE II, 350MM					SAW CUTS	DOWEL BARS	
	No. Of	L(M)	W(M)	Total	Total	38MM	
Location	Patches			SQ.M	Meter	Each	
Eastbound I-74							
140+900.055 to 141+900.000	34	1.83	3.66	227.73	497.76	680	
140+900.055 to 141+900.000	2	2.44	3.66	17.86	31.72	40	
Westbound I-74							
140+902.744 to 141+900.000	49	1.83	3.66	328.19	717.36	980	
140+902.744 to 141+900.000	2	3.65	3.66	26.72	36.56	40	
TOTAL				600.50	1283.4	1740	
		SAY		601	1283	1740	

GUARDRAIL AGGREGATE ERC	SION CO	NTROL
Location		M Ton
Eastbound I-74		
141+262.435 to 141+423.000	27.3	
141+593.770 +o 141+635.150	7.1	
Westbound I-74		
140+902.744 to 141+029.760	21.6	
140+902.744 to 140+928.500	4.4	
141+449.994 to 141+746.575	LT	50.5
TOTAL		110.9
	SAY	111

RAISED REFLECTIVE PAVEMENT MAR	KERS
Location	Each
Eastbound I-74	
140+900.055 +o 141+900.000	41
Westbound I-74	
140+902.744 +o 141+900.000	41
TOTAL	82

RAISED REFLECTIVE PAVEMENT MARKER REMO	DVAL
Location	Each
Eastbound I-74	
140+900.055 +o 141+900.000	41
Westbound I-74	
140+902.744 +o 141+900.000	41
TOTAL	82

WORK ZONE PAVEMENT MARI	KING REM	MOVAL	
Location	L (M)	W (M)	SQ. M
Eastbound I-74			
140+900.055 +o 141+900.000	142	0.1	14.2
Westbound I-74			ĺ
140+902.744 to 141+900.000	1 51	0.1	15.1
TOTAL			29.3
		SAY	30

	RTE.	SECTION	COUNTY	SHEETS	
88200	_74_	(72:T)B:3_	PEORIA	1360	1351
00200	STA.		TO STA		
	FED. RO	AD DIST. NO. 4	ILLINOIS FED.	AID PROJ	ECT

SHORT TERM PAVEME	NT MARK	(ING			
Location	Ski	Dash (m)	Diagonals (M)	Meter
Eastbound I-74					
140+900.055 to 141+9	00.000	403.2		82	485.2
Westbound I-74					-
140 + 902.744 to 141+9	00.000	403.2		. 99	502.2
TOTAL					987.2
				SAY	987

*Assume 4 applications total for skip dash
Assume 2 applications for diagonals on outside shoulders both EB and WB
Assume inside shoulder on WB pavement from sta. 141+693.400 to
sta. 141+900.000 require 2 applications of diagonals

NT MARI	KING QUA	NTITIES	
	Line	100 mm	ine 150 mm
	Yellow	White	Skip Dash
900.000	999.9	999.9	250
900.000	997.3	997.3	250
	1997.2	1997.2	500
SAY	3	995	500
	900.000	Line Yellow 900.000 999.9 900.000 997.3	900.000 999.9 999.9 900.000 997.3 997.3 1997.2 1997.2

POLYUREA PAVEME	NT MARKI	ING QUAN	TITIES	
Location		Line	100 mm	ine 150 mm
		Yellow	White	Skip Dash
Eastbound I-74 140+900.055 to 141	+900.000	999.9	999.9	250
Westbound I-74 140+902.744 to 141	+900.000	997.3	997.3	250
TOTALS		1997.2	1997.2	500
	SAY	. 3	995	500

NOTE: SEE DETAIL FOR TRAFFIC COUNTERS USING TERMINAL FACILITY FOR SCHEDULE OF PAY ITEMS FOR TRAFFIC COUNTER LOOPS

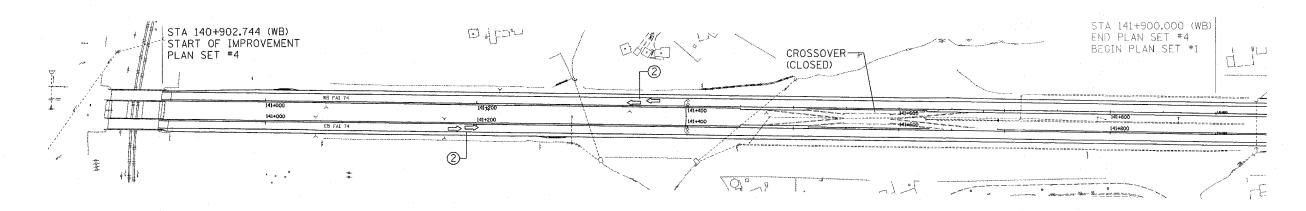
REVISIONS
NAME DATE

SCHEDULE OF QUANTITIES

DRAWN BY CEM
DATE 08/06/04 CHECKED BY CEM

-projects-i74wb-schedwest.dgn

F.A.I. RTE.	SECTION	COUN	TY:	TOTAL SHEETS	SHEET, NO.
74	(72:7)8:3_	PEG8	IA	1360	1352
STA		TO STA.			
FED. RO	DAD DIST. NO. 4	ILLINOIS	FED.	AID PROJ	ECT



STAGE 3-4 CONSTRUCTION

1. BITUMINOUS SURFACE REMOVAL OF EB, WB MAINLINE ROADWAY, PAVEMENT PATCHING, BITUMINOUS OVERLAY OF MAINLINE PAVEMENT AND SHOULDERS, AGGREGATE SHOULDERS TY B, RAISED REFLECTIVE PAVEMENT MARKERS, POLYUREA PAVEMENT MARKING, GUARDRAIL ADJUSTMENT.

STAGE 3-4 MAINTENANCE OF TRAFFIC

ALL LANES ON EB WB I-74 ARE OPEN TO TRAFFIC ALONG THIS SECTION, INTERMITTENT LANE AND SHOULDER CLOSINGS ARE REQUIRED TO COMPLETE THE CONSTRUCTION. SEE WORKING RESTRICTIONS SPECIAL PROVISION FOR LANE AND SHOULDER CLOSING RESTRICTIONS.

- 1. MAINTENANCE OF TRAFFIC FOR CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE APPLICABLE IDOT HIGHWAY STANDARDS 701101, 701400, 701401, 701406, 701426, AND 702001. ALL TRAFFIC CONTROL ITEMS WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS). SEE SPECIAL PROVISION.
- 2. FOR TEMPORARY INFORMATIONAL SIGNING DURING CONSTRUCTION SEE THE CONCEPTUAL TEMPORARY SIGNING PLAN FOR STAGE 3-4 IN PLAN SET #1

REVISIONS		
NAME DATI	ILLINOIS DEPARTME	ENT OF TRANSPORTATION
	→ MAINTENANC	E OF TRAFFIC
	FAI R	OUTE 74
	SCHE	EMATIC
	STA	GE 3-4
		DRAWN BY CEM
	DATE 08/03/04	CHECKED BY CEM .

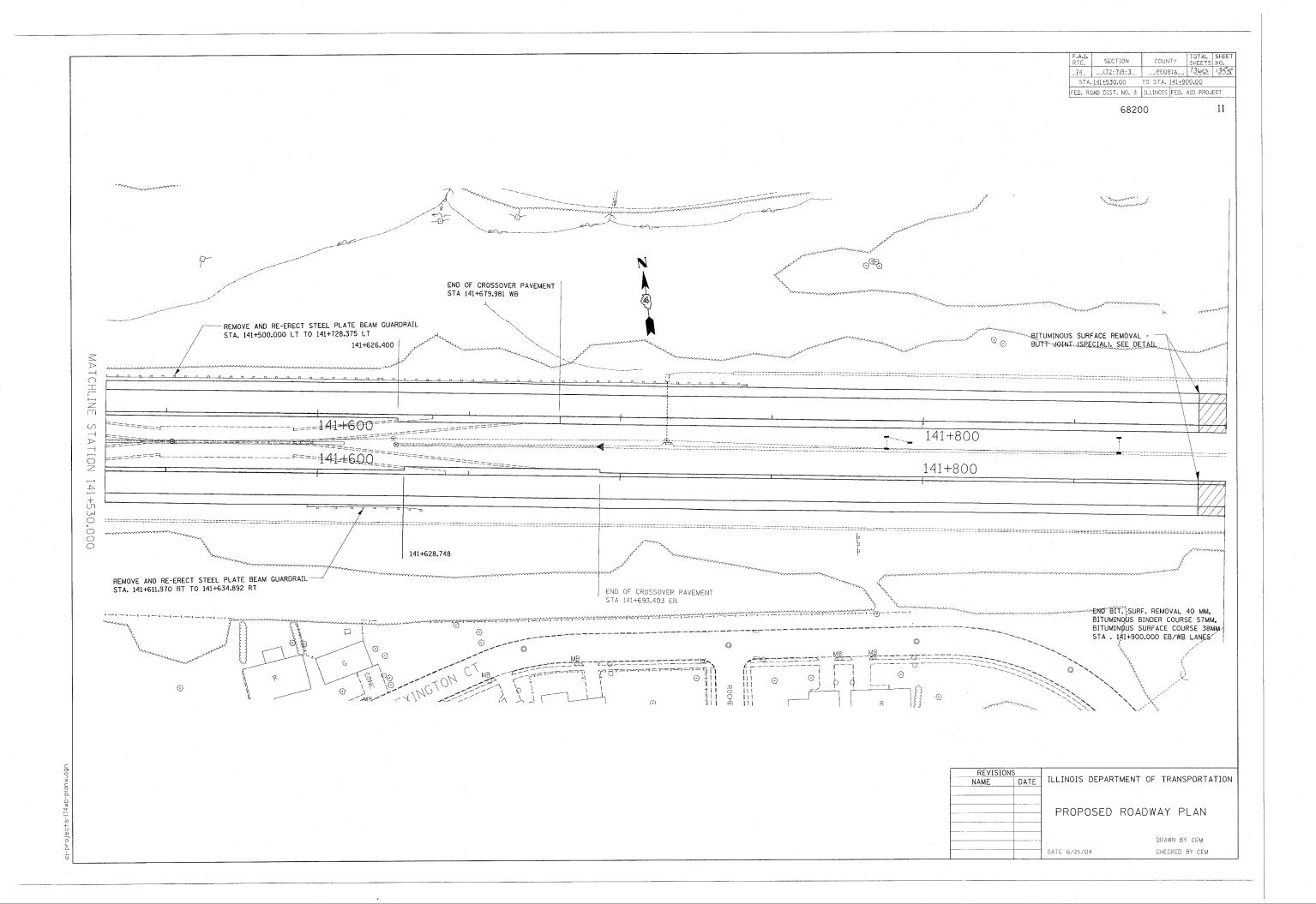
STA. 140±900.05 TO STA. 141±175.00 FED. ROAD DIST. NO. 4 | ILLINOIS FED. AID PROJECT 68200 BEGIN BIT. SURF. REMOVAL 40 MM, BITUMINOUS BINDER COURSE 57MM, BITUMINOUS SURFACE COURSE 38MM STA . 140+900.055 EB LANES STA. 140+902.744 WB LANES REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL STA. 140+902.744 RT TO 140+952.768 RT REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL STA. 140+902.744 LT TO 141+011.560 LT BITUMINOUS SURFACE REMOVAL BUTT JOINT GUARDRAIL REMOVAL
STA. 141+011.560 TO 141+022.960
TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)
STA. 141+011.560 TO 141+026.760 3 WB FAI 74 141+000 STATION 141+000 EB FAI 74 - $-\!\!\!\Box\!\!-\!\!\!\!$ REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY PLAN DRAWN BY CEM DATE 6/21/04 CHECKED BY CEM

SECTION STA.141±175.00 TO STA.141±530,00

FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT 68200 10 TRAFFIC COUNTER DETECTOR LOOPS

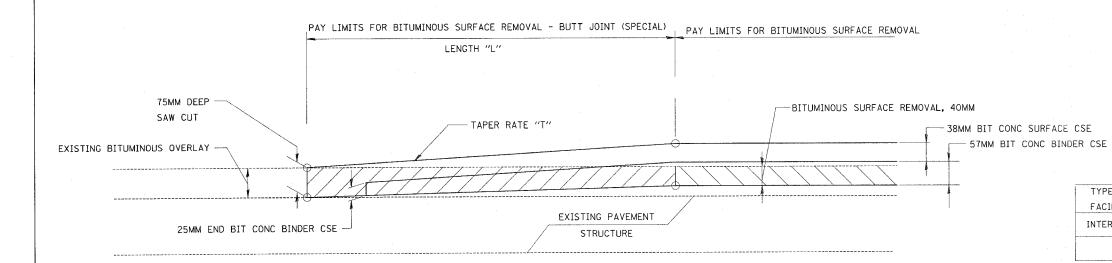
STA. 141+400 EB/WB

SEE DETAIL FOR TRAFFIC COUNTERS USING
TERMINAL FACILITY FOR PAY JEM LISTING AND DETAILS START OF CROSSOVER PAVEMENT STA 141+449.994 (EB & WB) Transfer to the state of the st 141+512.133 141+200 STATION 141+400 STATION 141+200 141+400 141+175.000 STA. 141+265.435 TO 141+280.635
TRAFFIC BARRIER TERMINAL TYPE 1. SPECIAL (TANGENT)
STA. 141+265.435 TO 141+280.635 141+514.115 REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL STA. 141+280.635 RT TO 141+422.456 RT REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY PLAN DRAWN BY CEM DATE 6/21/04 CHECKED BY CEM



F.A.Į. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72:7)B:3_	BEORIA	1360	1356
STA.		TO STA		
FED. RO	DAD DIST. NO. 4	ILLINOIS FED.	AID PROJ	ECT

12



ĺ	TYPE OF	TAPER RATE	LENGTH "L"
	FACILITY	′′T′′ V:H	METERS
	INTERSTATE	1:480	26.4

BITUMINOUS TAPER/BUTT JOINT DETAIL

GENERAL NOTES

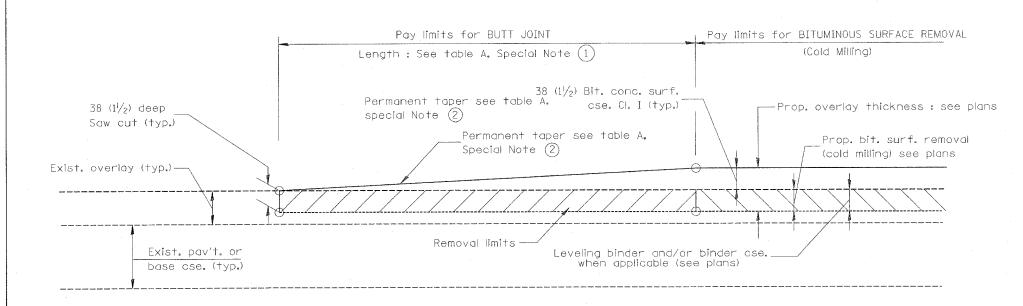
- 1. The work shall be done in accordance with Article 406.18 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.03.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.06.

REVISIONS		THE INDIS DEPARTM	MENT OF TRANSPORTATION
NAME.	DATE	LECTION DEL AICH	MILLIAN ON THAT ON THE PARTY OF
		BITUMINOUS	SURFACE REMOVAL
	<u> </u>	- BUTT .	JOINT (SPECIAL)
			DETAIL
			DRAWN BY CEM
	<u> </u>	DATE 6/22/04	CHECKED BY CEM

10100+0-174wh-c-174wh-0

68200

13



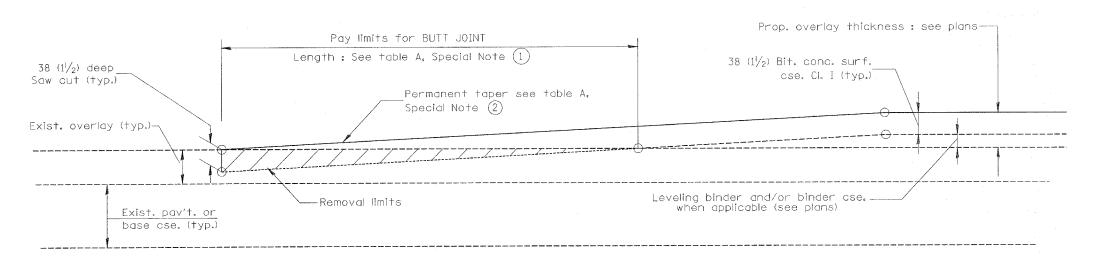
CASE 1: WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)

TABLE A (LENGTHS AND TAPER RATES)

ELEMENT	MAINLINE INTERSTATES &	ALL
	4-LANE EXPRESSWAYS	OTHERS
LENGTH OF	18.0 m(60′)	9.0 m(30')
BUTT JOINT		
PERMANENT	1:480	1:240
TAPER RATE	•	
TEMPORARY RAMP	1:80	1:40
TAPER RATE .		
TEMPORARY	3.0 m(10')	1.5 m(5')
RAMP LENGTH		1
	LENGTH OF BUTT JOINT PERMANENT TAPER RATE TEMPORARY RAMP TAPER RATE TEMPORARY	4-LANE EXPRESSWAYS LENGTH OF 18.0 m(60') BUTT JOINT PERMANENT 1:480 TAPER RATE TEMPORARY RAMP 1:80 TAPER RATE TEMPORARY 3.0 m(10')

GENERAL NOTES

- 1. The work shall be done in accordance with Article 406.18 and the Special Provision for Butt Joints.
- 2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.03 and the Special Provisions for Butt Joints.
- 3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.06.



CASE 2 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

DATE REVISIONS BY T.P. REVISION BOX T.P. REVISION BOX 4-1-97 CORRECTION TO DEPTH J.A. CADI SCAL

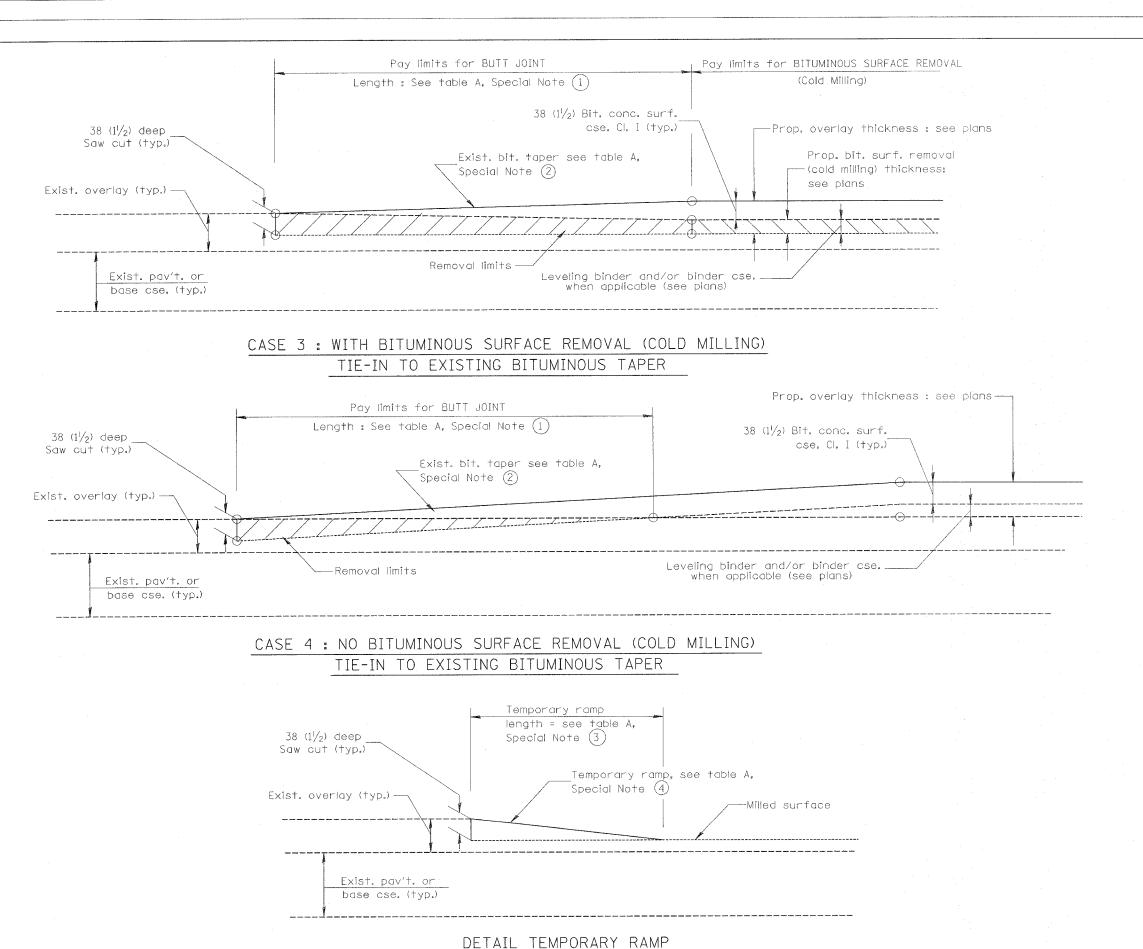
BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 1 OF 2

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

406101-D4 (1)

-projects-i74wb-stertyps.dgn



68200

14

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 2 OF 2 SCALE: NOT DRAWN TO SCALE

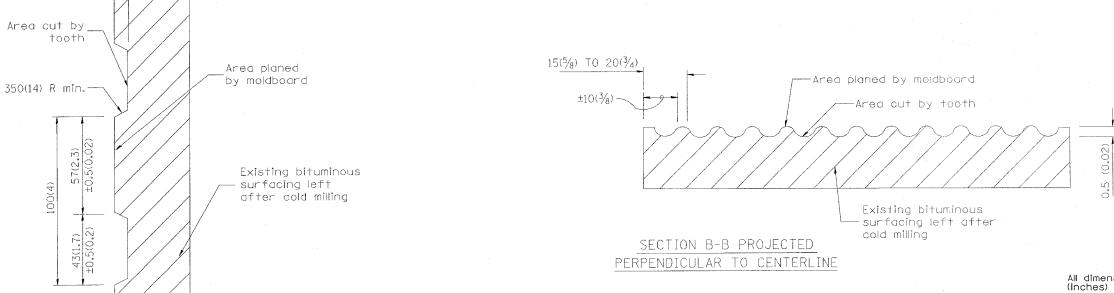
406101-D4 (2)

COUNTY TOTAL SHEET SHEETS NO. PEOBIA /360 1359 F.A.I. SECTION COUNTY TO STA. FED, ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

68200

General notes:

- 1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
- 2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



Area between tooth - marks planed by moldboard

Direction

|parallel to

±20°

±0.5(0.02)_

SECTION A-A

centerline

—Tooth mark

PLAN

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

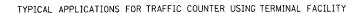
ILLINOIS DEPARTMENT OF TRANSPORTATION

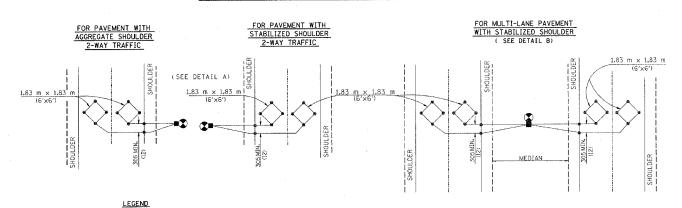
DISTRICT CADD STANDARD
 DATE
 REVISIONS
 BY

 1- 1-97
 RENUM. C-104.01, NEW REVISION BOX
 T. P.

 4-20-98
 REMOVED MILLING DETAIL FROM STD.
 J.
 BITUMINOUS SURFACE REMOVAL (COLD MILLING)

> CADD STD NO. 440001-D4 SCALE: NOT DRAWN TO SCALE. DRAWN BY CADD





- 102 x 102 (4 X 4) TREATED WOOD POST
- TERMINAL FACILITY
- INDICATES 38 (11/2) HOLE DRILLED AT DETECTOR LOOP CORNER

JUNCTION BOX DETAIL

STATION 141+400

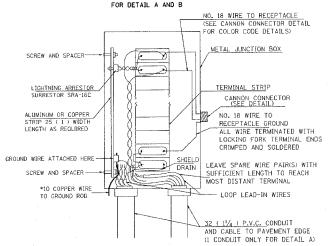
*600 MM MINIMUM DEPTH

SCHEDULE OF QUANTITIES					
I TEM	QUANTITY	UNIT			
DETECTOR LOOP, SPECIAL	46_	METER			
CONDUIT IN TRENCH, 30 mm DIA., PVC	39_	METER			
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 3 PAIR	45_	METER			
TRENCH AND BACKFILL FOR ELECTICAL WORK	33_	METER			
TRENCH AND BACKFILL FOR ELECTICAL WORK (SPECIAL)	10_	METER			
TERMINAL FACILITY	1	EACH			
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 6 PAIR		METER			

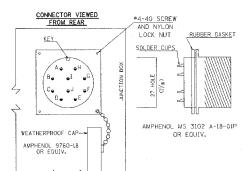
GENERAL NOTES

- 1. EACH DETECTOR LOOP USED SHALL BE WIRED INDEPENDENTLY TO THE TERMINAL.
- 2. DIAMOND SHAPED LOOPS SHALL BE CENTERED IN THE PAVEMENT LANES.
- 3. EACH 1.83 M X 1.83 M (6' X 6') DETECTOR LOOP SHALL HAVE A MINIMUM OF 4 OR 5 TURNS OF CABLE OR AS DIRECTED BY THE ENGINEER. 4. DETECTOR LOOPS MAY BE LOCATED AS DIAMONDS IN THE PAYEMENT AS
- DIRECTED BY THE ENGINEER. ALL LOOPS SHALL BE ORIENTED THE SAME DIRECTION.
- 5. THE RESIDENT ENGINEER AND OR CONTRACTOR SHALL NOTIFY THE TRAFFIC STUDIES TECHNICIAN IN PROGRAM DEVELOPMENT AT LEAST ONE WEEK PRIOR TO THE INSTALLATION TO DETERMINE EXACT LOCATION. CONTACT RON HEGWOOD PH # 309-693-5165

CANNON CONNECTOR DETAIL



ALL WIRE TERMINATED WITH LOCKING FORK TERMINAL ENDS CANNON CRIMPED AND SOLDERED CONNECTOR ∆BLACK WIRING DIAGRAM TWIST PAIRS TOGETHER WIRES SOLDERED TO CANNON CONNECTOR THEN COVERED CONNECT TO TERMINAL STRIP. WIRE CONNECTOR ONLY FOR GREEN WITH HEAT SHRINK TUBING XBLACK NUMBER OF LOOPS THAT WILL BE USED. (i.e. FOR A 2 BLUE LOOP LOCATION WIRE ONLY V BLACK LOOP 1 AND LOOP 2) CROUND WIRE INSTALLED
AT ALL LOCATIONS
NOT CONNECTED GREEN

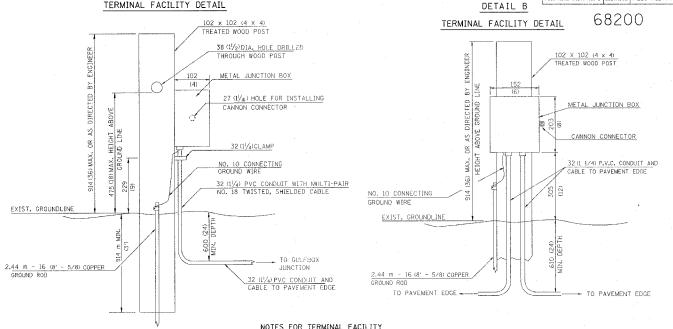


NOTES FOR JUNCTION BOX

- 1. ONE LIGHTNING ARRESTOR FOR EACH LOOP.
- NUMBER OF TERMINALS ON TERMINAL STRIP TO BE DETERMINED BY NUMBER OF LOOPS. TERMINAL STRIP SHALL BE CINCH BARRIER TYPE 140 OR EQUIVALENT.
- 3. JUNCTION BOX SHALL BE WEATHER PROOF WITH SIZE DETERMINED BY NUMBER OF COMPONENTS. JUNCTION BOX SHALL BE A MINIMUM 102X152X203 (4X6X8) METAL HOFFMAN BOX WITH KEY ENTRY OR EQUIVALENT.
- 4. TERMINAL WITH MORE THAN 4 LOOPS WILL REQUIRE THE USE OF 2 CANNON CONNECTORS WITH LOOPS GROUPED BY DIRECTION OR AS DIRECTED BY THE ENGINEER.
- 5. THE COST OF INSTALLING THE TERMINAL FACILITY INCLUDES ALL VERTICAL WIRING, BOXES, CONNECTORS, VERTICAL CONDUIT, POST, GROUND ROD, SURRESTORS, AND LABOR, AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR TERMINAL FACILITY.
- 6. THE METAL MOISTURE-PROOF MOUNTING BOX SHALL BE HINGED AND HAVE A KEYED ENTRY

DETAIL A

TERMINAL FACILITY DETAIL



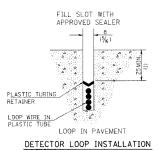
NOTES FOR TERMINAL FACILITY.

- GROUND ROD SHALL BE CONNECTED TO THE JUNCTION BOX WITH NO.10 AWG COPPER WIRE AS SHOWN IN THE JUNCTION BOX DETAIL.
 POST FOR TERMINAL FACILITY SHALL BE A MINIMUM DISTANCE.
- OF____FROM EDGE OF____.

DRILL HOLE THROUGH PAVEMENT INSERT CONDUIT AND FILL WITH APPROVED SEALER STABILIZED SHOULDER (WHEN APPLICABLE) EXIST. CRADE 32 (1/4) PVC CONDUIT WITH A MINIMUM SLOPE OF 6 PER 305 (1/4 PER 12) TO JUNCTION BOX



DETECTOR LOOP LEAD-IN DETAIL



PAVEMENT JOINT PAVEMENT JOINT

SECTION

(72-7)R-3

LOCATION(S)

COUNTY

TO STA.

FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

__EEGRIA__ 1360 1360

16

SAND .

NOTE: LOOP WIRE MUST FOLLOW SAW CUT TO BOTTOM, FORMING SLACK SECTION AT JOINT.

DETECTOR LOOP DETAIL AT PAVEMENT JOINT OR PAVEMENT CRACK

> All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIAL DETAIL SHEET DETAIL FOR TRAFFIC COUNTERS USING TERMINAL FACILITY CADD STD. NO. 836002-D4 DRAWN BY CADD

DATE : AUGUST 19, 1992

SCALE: NOT DRAWN TO SCALE

CHECKED BY R. TAYLOR