PROJECT ENGINEER WENDA SOUTHERLAND (618)346-3159 SQUAD LEADER: BRIAN COURTWRIGHT (618)346-3192

MICROFILMED REEL NUMBER

RESIDENT ENGINEER

AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

AWARDED

STATE OF ILLINOIS

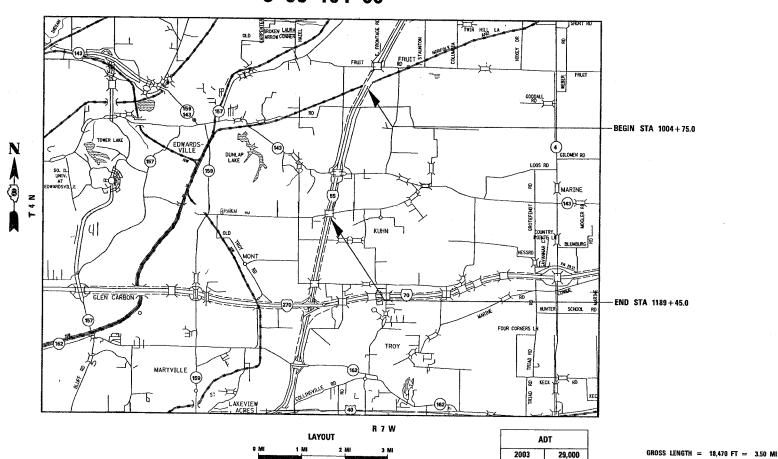
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

SECTION 60-(1,2)I-2
PROJECT
MADISON COUNTY
WIRE ROPE SAFETY FENCE
C-98-104-05

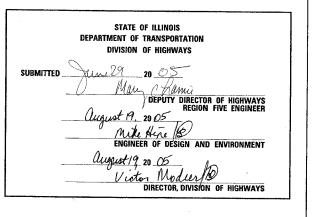
FAI ROUTE 55(I-55)



| CONTRACT NO. 76940 | F.A.I. | SECTION | COUNTY | TOTAL | SHEETS | NO. | TOTAL | SHEETS | SHEETS | NO. | TOTAL | SHEETS | SHEETS | NO. | TOTAL | SHEETS |

D-98-083-05





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

NET LENGTH = 18,470 FT = 3.50 MI

CONTRACT NO. 76940

1-800-892-0123

MADISON COUNTY

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

SECTION 60-(1,2)1-2

INDEX OF SHEETS

3 GENERAL NOTES INDEX OF SHEETS, COMMITMENTS, & STANDARDS

2 SUMMARY OF QUANTITIES

1 COVER SHEET

5-11 PLAN SHEETS 12-21 DETAILS

4 TYPICAL SECTIONS

FAI 55

I THOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

			001	/!!V! <i>/</i> ~\! \		Q
	SUMMARY OF QUANTITIES			CONS	TRUCTION TYPE	CODE
CODE NO	ITEM CONTROL OF CONTRO	UNIT	TOTAL QUANTITIES	100% STATE URBAN SFTY - 4A		
		DIATI	QUANTITIES	SFTY - 4A		
20029650	HIGH TENSION CABLE MEDIAN BARRIER SYSTEM	FOOT	18365	18365		
25000200	SEEDING, CLASS 2	ACRE	0.38	0.38		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	34	34		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	. 34	34		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	34	34		
25100115	MULCH, METHOD 2	ACRE	0.76	0.76		
48202200	BITUMINOUS SHOULDERS SUPERPAVE 4"	SQ YD	7804	7004		
67100100	MOBILIZATION	L SUM	1	1		
70100700	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1		
70100305	STANDARD 701406 TRAFFIC CONTROL AND PROTECTION STANDARD 701400	LSUM	,	,		
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SUMMARY OF QUANTITIES TOTAL GUANTITIES TOTAL GUANTITIES TOTAL GUANTITIES TOTAL GUANTITIES TOTAL GUANTITIES		CLIMATADY	OLIANITITIC			CONS	CONSTRUCTION TYPE CODE		
ODDE NO TIEM UNIT QUANTITIES		SUMMARY	UF	QUANTITIES	Y	TOTAL			
	CODE NO		ITEM		UNIT	QUANTITIES			
		THE PROPERTY OF THE PROPERTY O							
		CLAST CONTRACT CONTRA							
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GENERAL NOTES

THE LOCATIONS OF THE IMPROVEMENTS AS SHOWN IN THE PLANS ARE APPROXIMATE LOCATIONS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

- 3. ILLINOIS SATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JULLIE. (PHONE 800-892-0123) OR FOR NON-MEMBER, THE UTILITY COMPANIES DIRECTLY, AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

BOND MADISON WATER COMPANY
CENTERPOINT ENERGY
CHARTER COMMUNICATIONS, INC
CITY OF EDWARDSVILLE (SANITARY SEWER)
MARATHON ASHLAND PIPELINE, LLC (PIPELINE)
SBC (COMMUNICATIONS)
SOUTHWESTERN ELECTRIC COOPERATIVE, INC.
WILTEL COMMUNICATIONS, LLC

MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY *. NON J.U.L.I.E MEMBERS MUST BE CONTACTED INDIVIDUALLY.

- 4. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPIATE LIGHTS.
- 5. WHEN NO WORK IS BEING PERFORMED, THE FLAGGERS WILL NOT BE REQUIRED. IF FLAGGERS ARE NOT PRESENT, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED.
- FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION WILL BE APPLIED.
- 7. LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 8. STANDARD 701101 SHALL BE USED FOR SHOULDER CLOSING WITHE A SHOULDER CLOSED SIGN. THE COST IS INCLUDED IN THE COST OF TRAFFIC CONTROL.
- 9. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- 10, ALL TRAFFIC CONTROL DEVICES SHALL BE SKID MOUNTED.
- 11. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT, AND WILL BE INCLUDED INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLOURESCENT ORANGE.
- 12. THE CONTRACTOR SHALL BE AWARE THE UNIT OF MEASUREMENT FOR THE HIGH TENSION CABLE MEDIAN BARRIER SYSTEM IS FROM END OF TERMINAL TO END OF TERMINAL, REGARDLESS OF THE NUMBER OF WIRE ROPES.

COMMITMENTS:

COMMITMENTS FOR THESE PROJECTS ARE AS FOLLOWS: NONE

STANDARDS 000001-04 701101 701400 701406 701426 702001-05

> ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS, COMMITMENTS, STANDARDS AND GENERAL NOTES FAI ROUTE 55 SECTION 60-(1,2)I-2 MADISON COUNTY DRAWN BY: EKS

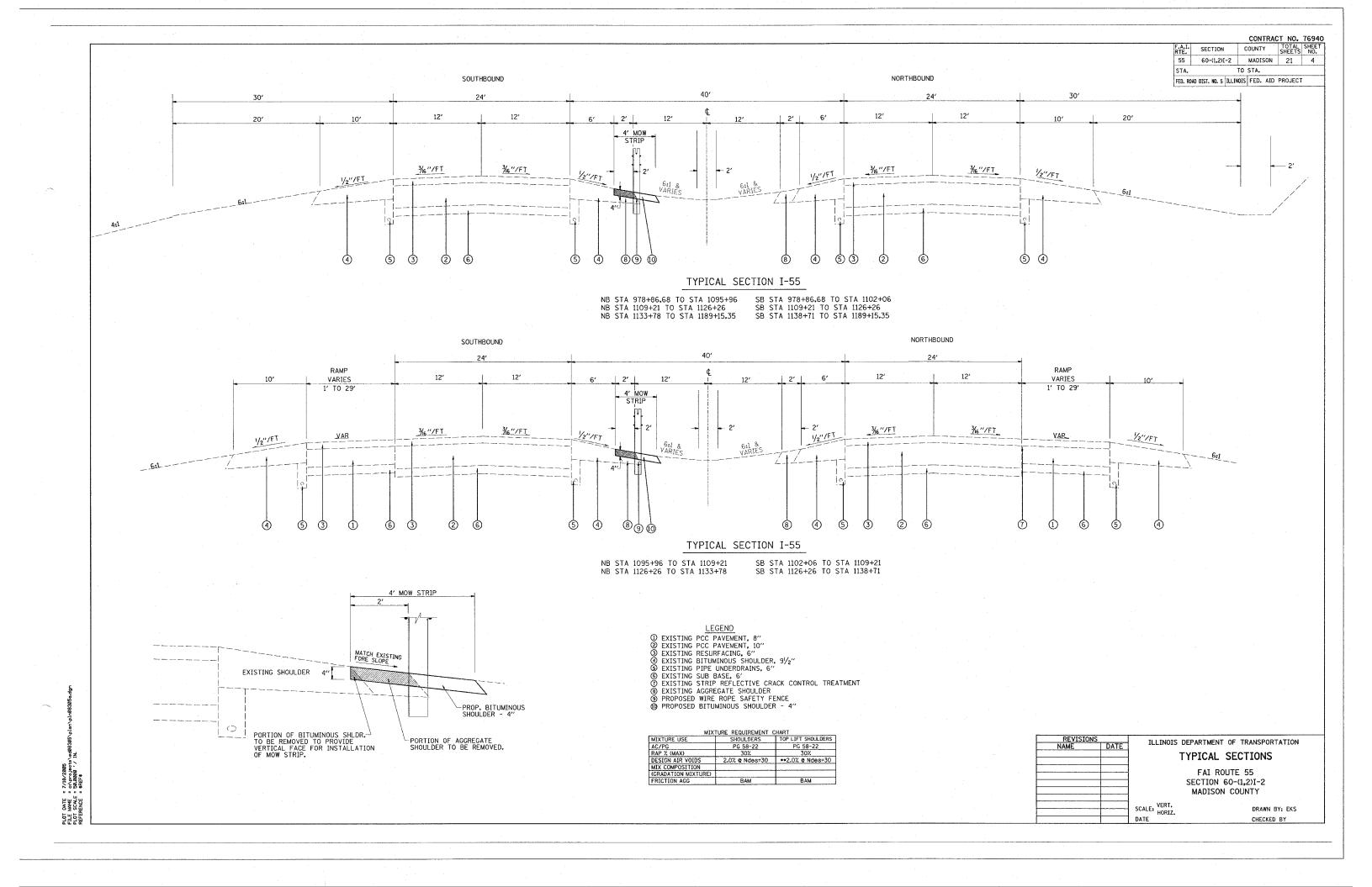
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CHECKED BY

TO STA.

FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT

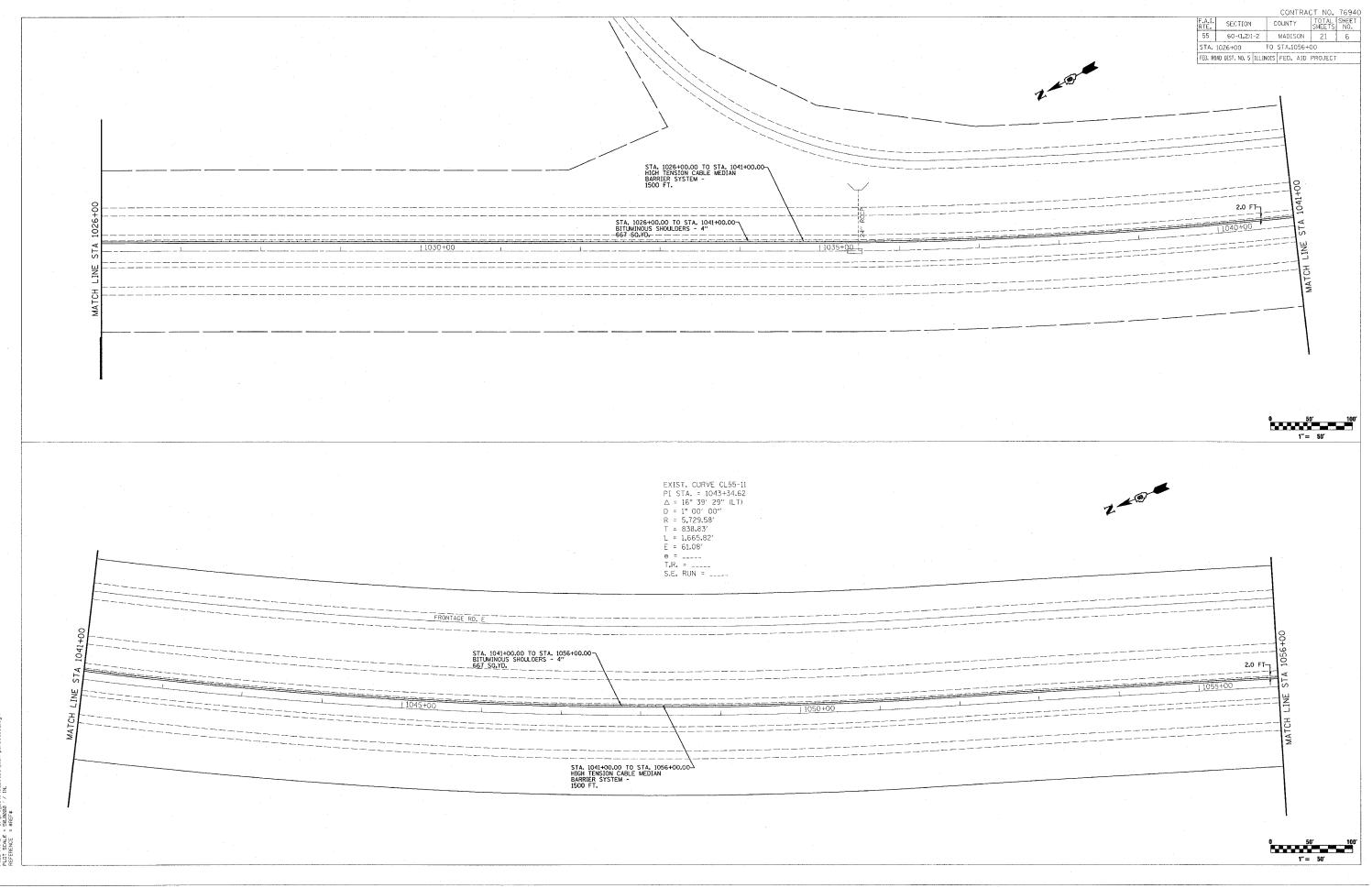
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CONTRACT NO. 76940
OUNTY TOTAL SHEET SHEETS NO.
 F.A.I. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS

 55
 60-(1,2)I-2
 MADISON
 21
 5
 TO STA,1026+00 FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT Sta. 1002+99.01 F.A.I. 55 = € OF N.Y.C. & ST. L. R.R. STA. 1004+75 TO STA. 1011+00.00 -HIGH TENSION CABLE MEDIAN BARRIER SYSTEM -625 FT. 50'-0" SEE DETAIL 5'-0" MOW 2.0 FT--HIGH TENSION CABLE MEDIAN BARRIER SYSTEM END TREATMENT (INCLUDED IN HIGH TENSION CABLE MEDIAN BARRIER SYSTEM PAY ITEM) - SEE "FARED GUARDRAIL DETAIL" NOTE
STATIONS PROVIDED FOR THE BEGINNING, END AND TRANSITION OF THE HIGH
TENSION CABLE MEDIAN BARRIER SYSTEM AND MOW STRIP ARE SOLELY FOR
THE PURPOSE OF QUANTITY ESTIMATING. THE ACTUAL BEGINNING, END AND
TRANSITION LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE 1"= 50' ENGINEER AND MANUFACTURER. STA. 1011+00.00 TO STA. 1026+00.00-HIGH TENSION CABLE MEDIAN BARRIER SYSTEM -1500 FT. STA. 1011+00.00 TO STA. 1026+00.00 -BITUMINOUS SHOULDERS - 4" 2.0 FT

= 7/18/2005 = ciprojects\edd03305\plan\pln08385a.dgr



STA, 1056-00.00 TO STA, 1071-00.00
STA, 1056-00.00

0 50' 100' 1"= 50'

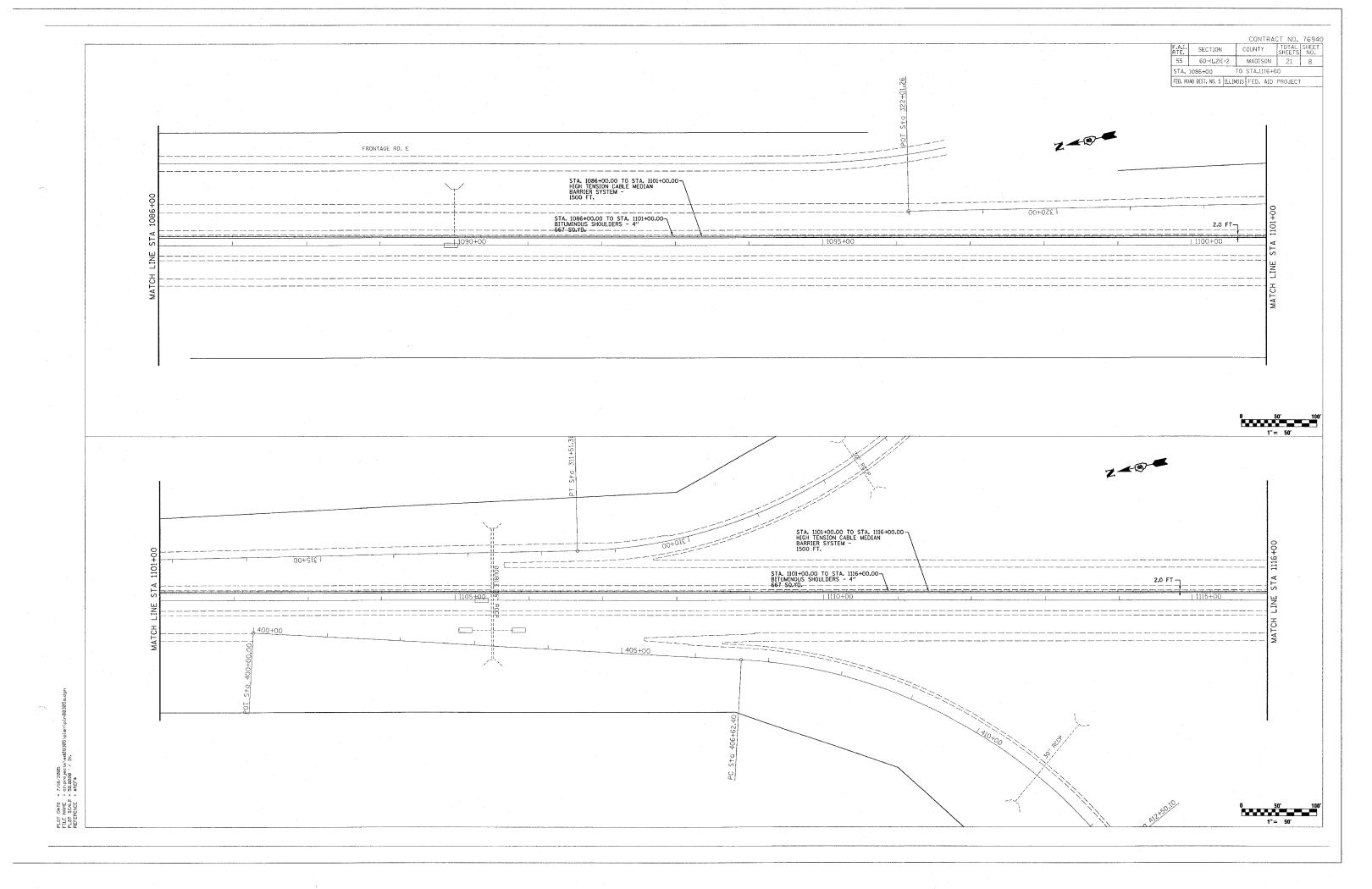
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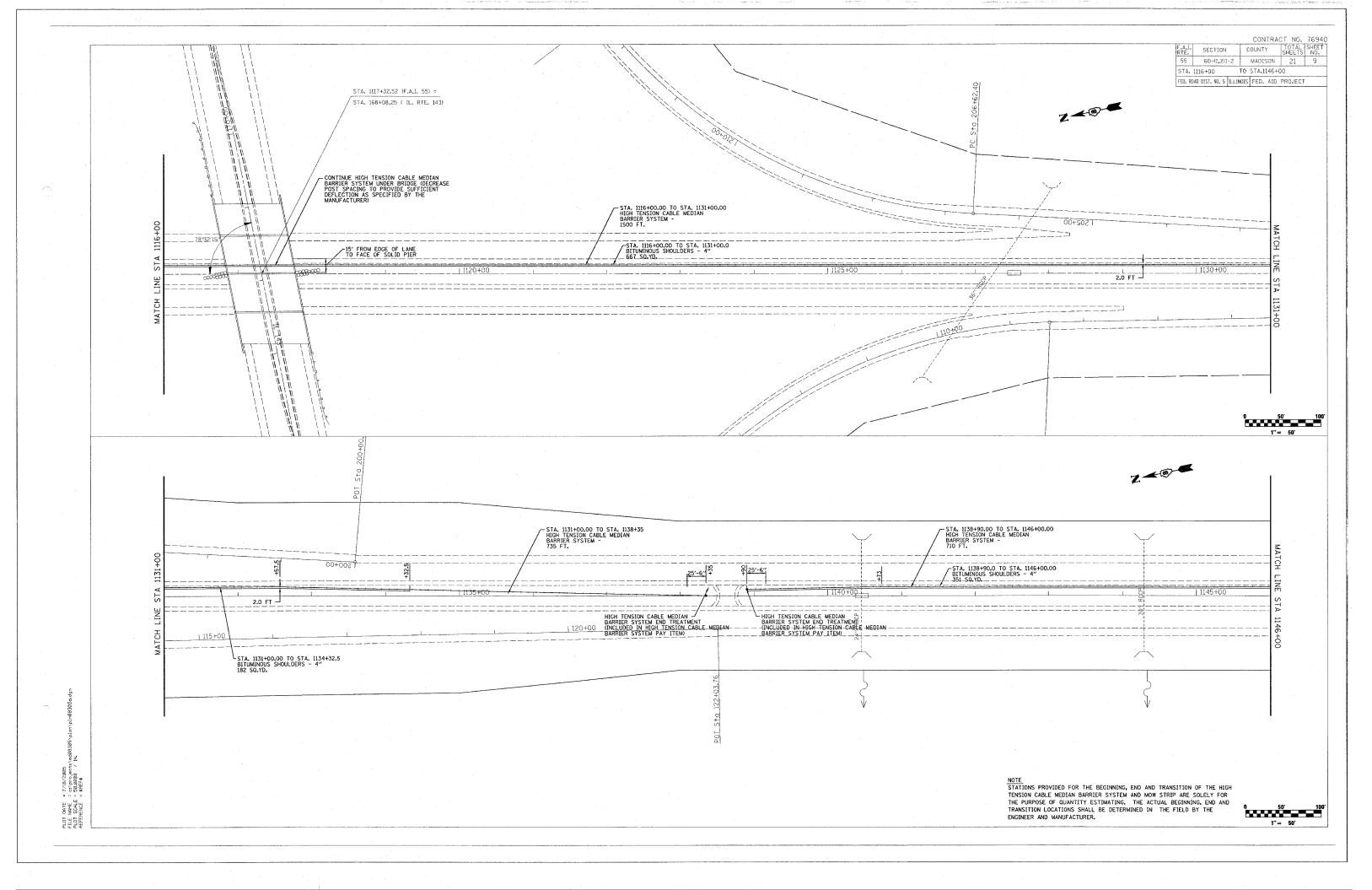
| STA_1071+00.00 TO STA_1075+75.00 | STA

NOTE
STATIONS PROVIDED FOR THE BEGINNING, END AND TRANSITION OF THE HICH
TENSION CABLE MEDIAN BARRIER SYSTEM AND MOW STRIP ARE SOLELY FOR
THE PURPOSE OF QUANTITY ESTIMATING. THE ACTUAL BEGINNING, END AND
TRANSITION LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE
ENGINEER AND MANUFACTURER.

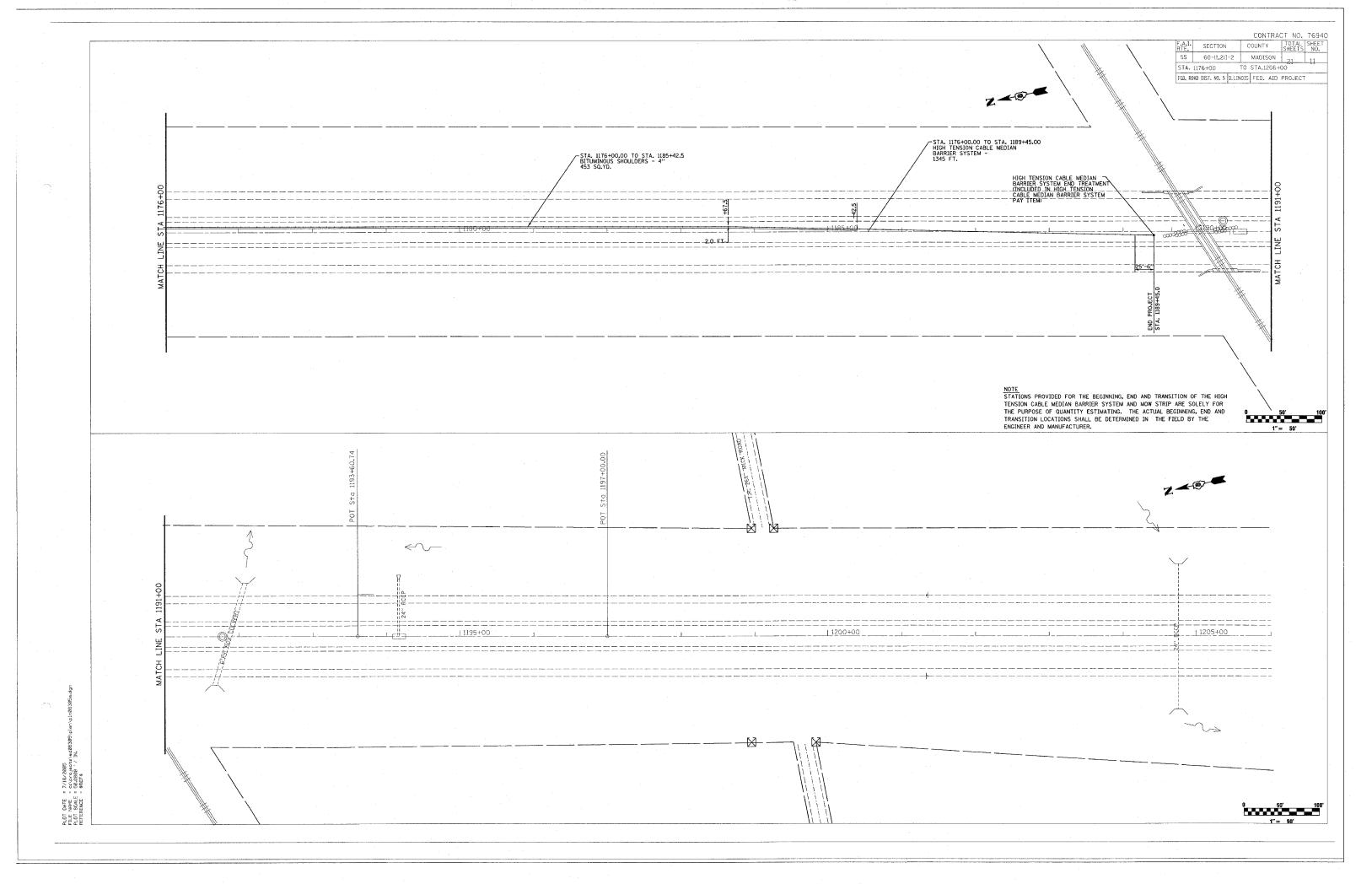


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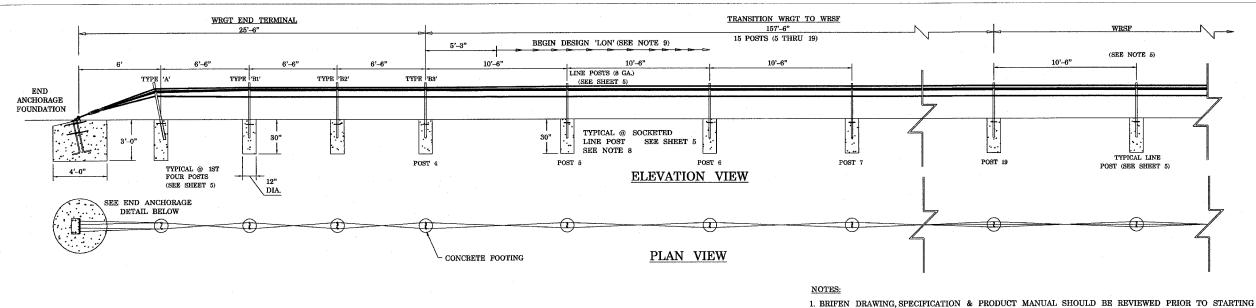
| CONTRACT NO. 76940 |
| F.A.I. | SECTION | COUNTY | SHEETS | NO. |
| 55 | 60-(1,2)I-2 | MADISON | 21 | 10 | STA, 1116+00 TO STA,1146+00 FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT -STA. 1146+00.00 TO STA. 1161+00.00 HIGH TENSION CABLE MEDIAN BARRIER SYSTEM -1500 FT. -STA. 1146+00.00 TO STA. 1161+00.00 BITUMINOUS SHOULDERS - 4" 667 SQ.YD. STA. 1166+35.82 F.A.I. - CONTINUE HIGH TENSION CABLE MEDIAN BARRIER SYSTEM UNDER BRIDGE (DECREASE POST SPACING TO PROVIDE SUFFICIENT DEFLECTION AS SPECIFIED BY THE MANUFACTURER) FSTA. 1161+00.00 TO STA. 1176+00.00 HIGH TENSION CABLE MEDIAN BARRIER SYSTEM -1500 FT. STA. 1161+00.00 TO STA. 1176+00.00 BITUMINOUS SHOULDERS - 4" 667_S0.YD. 18.5' FROM EDGE OF LANE TO FACE OF SOLID PIER



CONTRACT NO. 76940

F.A.I. SECTION COUNTY TOTAL SHEET NO. 55 60-(1,2)I-2 MADISON 21 12 NOTES: 1. 2'-0" HIGH TENSION CABLE MEDIAN BARRIER SYSTEM OFFSET FROM SHOULDER UNLESS OTHERWISE NOTED
2. ASSUMED VEHICLE DEPARTURE ANGLE IS 25°
3. REFER TO DETAILS FOR POST SPACING
4. PROVIDE REFLECTORS AT EVERY FIFTH POST (50' SPACING ±, AMBER) STA. FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT TRAVEL WAY 25'-6" END TERMINAL -7'-6"
MOW STRIP 577'-6" HIGH TENSION CABLE MEDIAN BARRIER SYSTEM TRANSITION TRAVEL WAY 175′-0″ 2'-0" WRSF OFFSET FROM SHOUDLER SHOULDER 4'-0" MOW STRIP 157'-6" HIGH TENSION CABLE MEDIAN BARRIER SYSTEM TRANSITION 7'-6" MOW STRIP € MEDIAN – - 25'-6" END TERMINAL SHOULDER TRAVEL WAY TRAVEL WAY SHOULDER AT TRAFFIC CROSSOVERS SHOULDER TRAVEL WAY 25'-6" END TERMINAL 577'-6" HIGH TENSION CABLE MEDIAN BARRIER SYSTEM TRANSITION TRAVEL WAY 175'-0" SHOULDER 4'-0" MOW STRIP 7'-6" MOW STRIP € MEDIAN --SHOULDER TRAVEL WAY TRAVEL WAY SHOULDER ILLINOIS DEPARTMENT OF TRANSPORTATION MEDIAN CROSSOVER DETAILS FAI ROUTE 55 SECTION 60-(1,2)I-2 MADISON COUNTY AT END OF PROJECT N.T.S. SCALE: VERT. DRAWN BY: EKS CHECKED BY

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ANCHOR FRAME (SEE BELOW) - TENSILE ROD *HDPE OR NYLON SQUARE WASHER SQ. STEEL WASHER - TAIL ROPE NUTS & COMBINATION MECHANICAL WASHERS *HIGH DENSITY POLYETHLENE (HDPE) TAIL ROPES POST 'A 44444444444444 ANCHORAGE CONNECTION HOLE FOR 1/4" KEEPER ROD (INSERT AFTER ROPES INSTALLED) ANCHOR FRAME 26" (INCREASES TO 28-3/8" EXCLUDER @ 'LON' POSTS) GRADE SURROUNDING AREA TO DRAIN. **ELEVATION VIEW** REINFORCING RING (BY OTHERS) 3'-0" 3'-0" (MIN) \oplus (MIN) WRGT SOCKET \bigoplus (DIFFERS FROM LINE POST SOCKETS) REINFORCING 4 , \oplus \oplus \oplus \oplus \oplus \oplus (MIN) (MIN) 11-1/2"

WRGT END ANCHORAGE DETAIL
USED WITH 3-ROPE OR 4-ROPE TL-3 & TL-4 SYSTEMS

PLAN VIEW
ANCHORAGE CONNECTION DETAILS

- BRIFEN DRAWING, SPECIFICATION & PRODUCT MANUAL SHOULD BE REVIEWED PRIOR TO STARTING AN INSTALLATION. FOR ASSISTANCE OR ADDITIONAL INFORMATION CALL 1-866-427-4336 TOLL FREE.
- 2. WIRE ROPE SAFETY FENCE (WRSF) IS RECOMMENDED FOR INSTALLATIONS ON SLOPES OF 6:1 OR FLATTER.

 THE AREA SHOULD BE RELATIVELY SMOOTH, WITHOUT EDGE DROP-OFFS, ABRUPT SLOPE CHANGED, HOLES,
 DEBRIS, ETC. THAT COULD PREVENT A VEHICLE FROM IMPACTING THE WRSF WITH ALL WHEELS ON THE GROUND
 AND SUSPENSION NORMAL SOME FILLING ANDOOR GRADING AND COMPACTION MAY BE NECESSARY. THE ROPES
 MUST BE PLACED AT DESIGN HEIGHT ABOVE GROUND LINE. TOLERANCE IS * 1".
- 3. WRSF MAY BE INSTALLED ON EITHER SIDE OF THE ROADWAY. THE RADIUS EDGE OF POSTS SHALL BE ON THE APPROACH SIDE OF TRAFFIC. WEAKENING CUT (RELIEF NOTCH) AT GROUND LINE ON POST A & B TO BE PLACED TOWARD THE END ANCHOR. ALSO SEE SHEET 5.
- 4. ALL POSTS ARE SET IN SOCKETS UNLESS OTHERWISE SPECIFIED.
- 5. LINE POST SPACING AT 10'-6" SHOWN; MAY BE DECREASED IF NECESSARY. ADEQUATE CLEARANCE TO RIGID OBSTACLES SUCH AS BRIDGE PIERS, SIGN SUPPORTS, POWER POLES TREES, ETC. IS CRITICAL. SEE PRODUCT MANUAL OR CONTACT MANUFACTURER.
- 6. WRGT END TERMINAL IS NCHRP 350 APPROVED AND MAY BE LOCATED WITHIN THE HORIZONTAL CLEAR ZONE. END TERMINAL FLARE RATE MAY NOT EXCEED 25:1; 50:1 OR LESS IS PREFERRED. USED FOR BOTH TL-3 & TL-4 SYSTEMS. NO MAXIMUM LIMIT TO LENGTH BETWEEN END TERMINAL.
- 7. WRGT END TERMINAL IS SUPPLIED AS A PACKAGE UNLESS SPECIFIED OTHERWISE. INCLUDES ANCHOR FRAME, REINFORCING CAGE, CONNECTION HARDWARE, COMBINATION MECHANICAL FITTING, POSTS TYPE A AND B, WRGT SOCKETS, PEGS, EXCLUDERS, AND TAIL ROPES.
- 8. THE 15 TRANSITION LINE POSTS ADJACENT TO WRGT END TERMINAL DO NOT HAVE TOP ROPE SLOT.
 ALL THE ROPES WEAVE ON EITHER SIDE OF THE POSTS UNTIL THE FIRST LINE POST WITH A SLOT (POST 20).
 SEE SHEET 5.
- 9. DESIGN LENGTH OF NEED 'LON' BEGINS 5'-3" FROM POST 4 (TYPE B3).
- 10. CONCRETE (BY OTHERS) TO BE 3,500 PSI MINIMUM. EXPOSED SURFACES TO BE HAND TROWELED. FOUNDATION DEPTH (TYPICALLY 30" DEPTH) FOR USE IN FIRM SOIL OR WHEN INSTALLED SURROUNDED BY 4" MIN SURFACING.

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CONTRACT NO. 76940

COUNTY

MADISON

TO STA,1026+00

FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT

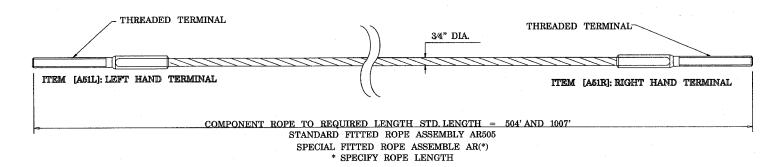
60-(1,2)1-2

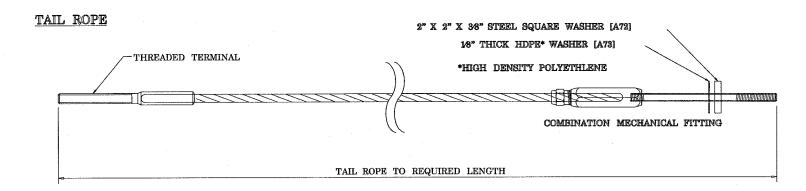
STA, 996+00

R	evisions			GENERAL LAYOUT	
No.	Date	Ву		END TERMINAL (NCHRP-3	50) AND TRANSIT
1.	5.26.05	MW	<u> </u>	D B	
2.	6.21.05	MW	Date 5.17.05	Drawn By Manita Workman	Scale None

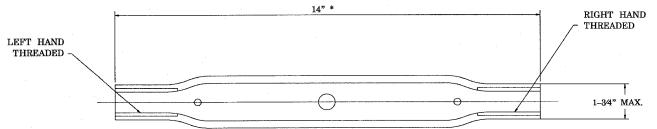
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COMPONENT ROPE





RIGGING SCREW [A52] (TURNBUCKLE)



FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT

STA, 996+00

NOTES:

- 1. BRIFEN WIRE ROPE TO BE 3/4" (19mm) PRE-STRETCHED 3 X 7 CONSTRUCTION.
- 2. MINIMUM BREAKING LOAD OF FITTED ROPES SHALL BE 36,800 POUNDS (16.7 TONNE F METRIC).
- 3. COMBINATION MECHANICAL FITTING SHALL DEVELOP MINIMUM BREAKING LOAD AS NOTE 2.
- 4. RIGGING SCREWS SHALL NOT BE LOCATED BETWEEN END ANCHORAGE AND TYPE POST 'A'.
- 5. WIRE ROPES ARE TO BE TENSIONED AFTER INSTALLATION, PER TENSION CHART BELOW, AND RE-CHECKED AFTER 2-3 WEEKS.

TENSION CHART									
	BIENT RATURE	ROPE TENSION							
C	F	KN	LBS						
43	110	6.5	1410						
38	100	9.4	2110						
35	95	11.25	2531						
30	86	14.00	3150						
25	. 77	16.75	3769						
20	68	19.50	4387						
15	59	22.25	5006						
10	50	25.00	5625						
5	41	27.75	6244						
0	32	30.50	6863						
-5	23	33.25	7481						
-10	14	36.00	8100						
-18	0	40.40	9100						

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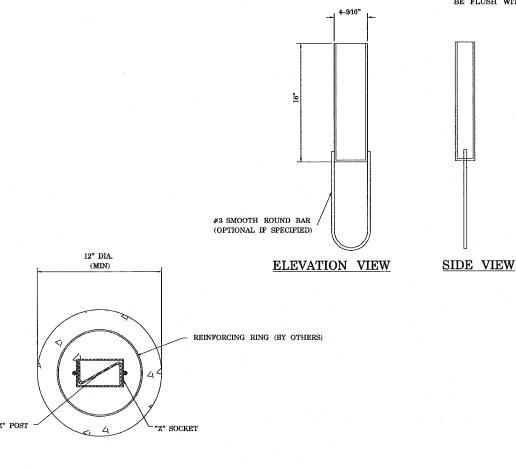
	BF	31	FEI	N*US	Ainc.
R	evisions	3			
No.	Date	By	WIRE	e rope and fitt	INGS
1.	5.26.05	MW		77 77	
2.	6.21.05	MW	Date 5.17.05	Drawn By Aaron Wells	Scale
3.	6.28.05	MW		1200000	None
4.					Sheet No.
5.			Dwg. No.	WRSF-05-202a	2 of 9

ILE NAME = ciyprojects\ed@83@5\plan\pln@83@ LOT SCALE = 56.0000 / IN. EFERENCE = \$REF\$

NOTES:

LINE POST

- 1. BRIFEN DRAWINGS, SPECIFICATIONS AND PRODUCT MANUAL SHOULD BE REVIEWED PRIOR TO STARTING AN INSTALLATION. FOR ASSISTANCE OR ADDITIONAL INFORMATION CALL 1-866-427-4336 TOLL FREE.
- 2. WIRE ROPE SAFETY FENCE (WRSF) IS RECOMMENDED FOR INSTALLATIONS ON SLOPES OF 6:1 OR FLATTER. THE AREA SHOULD BE RELATIVELY SMOOTH, WITHOUT EDGE DROP-OFF, ABRUPT SLOPE CHANGES, HOLES, DEBRIS, ETC. THAT COULD PREVENT A VEHICLE FROM IMPACTING THE WRSF WITH ALL WHEELS ON THE GROUND AND SUSPENSION NORMAL SOME FILLING ANDOR GRADING AND COMPACTION MAY BE NECESSARY. THE ROPES MUST BE PLACED AT DESIGN HEIGHT ABOVE GROUND LINE. TOLERANCE IS * 1".
- 3. WRSF MAY BE INSTALLED ON EITHER SIDE OF THE ROAD WAY. THE RADIUS EDGE OF POSTS SHALL BE ON THE APPROACH SIDE OF TRAFFIC ALSO SEE SHEET 5.
- 4. POSTS SHALL BE SOCKETED DESIGN, UNLESS OTHERWISE SPECIFIED; SPACING MAY BE DECREASED TO AVOID OBSTACLES. ADEQUATE CLEARANCE TO RIGID OBSTACLES SUCH AS BRIDGE PIERS, SIGN SUPPORTS, POWER POLES, AND TREES, IS CRITICAL. SEE PRODUCT MANUAL OR CONTACT MANUFACTURER.
- 5. CONCRETE (BY OTHERS) TO BE 3,500 PSI MINIMUM. EXPOSED SURFACES TO BE HAND TROWELED. FOUNDATION (TYPICALLY 30" DEPTH) FOR USE IN FIRM SOIL OR WHEN INSTALLED SURROUNDED BY 4" MIN. SURFACING.
- 6. PRISMATIC REFLECTIVE SHEETING (ADHESIVE BACK) WHEN SPECIFIED SHALL BE FIELD APPLIED. SPECIFY COLOR, POST INTERVAL AND SINGLE OR DOUBLE SIDED.
- 7. EXCLUDER TO BE PUSHED DOWN TIGHT AGAINST TOP OF SOCKET SOCKET SHALL BE FLUSH WITH THE TOP OF THE FOUNDATION.



LINE POST



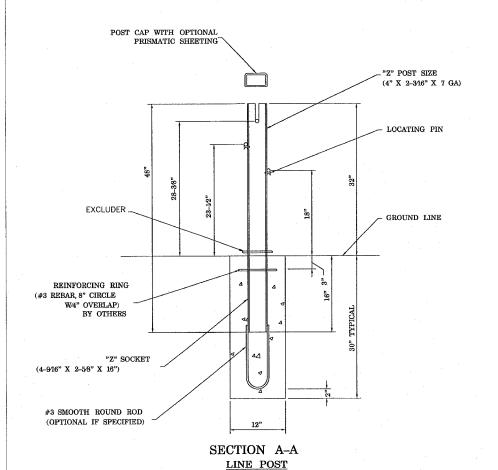
TL-3 (3-ROPES)

LINE POST

LINE POST

TYPICAL ELEVATION

(SEE DETAIL BELOW)



LINE POST

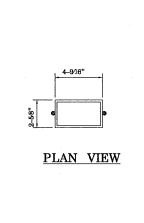
LINE POST

LINE POST

WITH "Z" SOCKET

CONCRETE SOCKETED FOUNDATION

(DRIVEN STEEL SOCKET OPTIONAL)



'Z' SOCKET DETAIL

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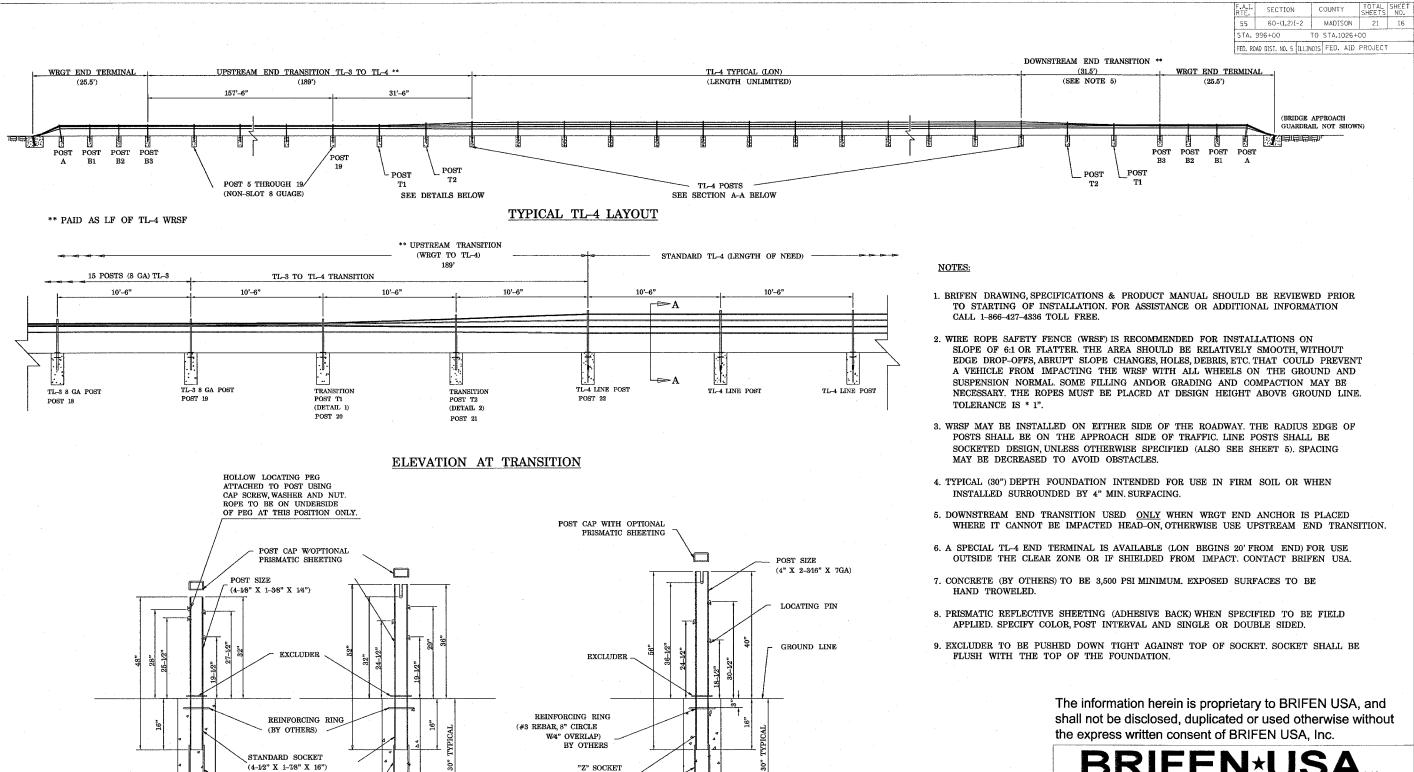
BRIFEN*USA INC.

R	evisions	\$]	TL-3 WRSF DETAIL	4		
No.	Date	Ву	(3-ROPES @ 10'-6" POST SPACING)				
1.	5.26.05	MW	Doto	Duoren Per	Scale		
2.	6.21.05	MW	5.17.05	Date Drawn By 5.17.05 Manita Workman			
3.	6.28.05	MW					
4.			(INCLUDING	(INCLUDING TRANSITION TO WRGT)			
5.			Dwg. No.	3 of 9			

OF SCALE = 50. Sprojects/ed08305\plan\pln88305a.dgn LT SCALE = 50.0000 // IN. FFRENCE = \$PEF\$ CONNECTS TO

AT WRGT END TERMINAL _

TRANSITION



NOTE THIS POST MUST BE DIRECTLY CONCRETED IN OR PINNED INTO A SOCKET TO RESIST

T1-TRANSITION POST (NON-SLOTTED)

CONCRETE SOCKETED FOUNDATION

(4-1/8" X 1-3/8" X 1/4")

DETAIL 1

DETAIL 2 T2-TRANSITION (SLOTTED) POST (4-1/8" X 1-3/8" X 1/4")

#3 SMOOTH ROUND BAR

(OPTIONAL IF SPECIFIED)

CONCRETE SOCKETED FOUNDATION

TL-4 LINE POST DETAIL (4" X 2-316 X 7 GA.)
CONCRETE SOCKETED FOUNDATION

12"

"Z" SOCKET

#3 SMOOTH ROUND BAR

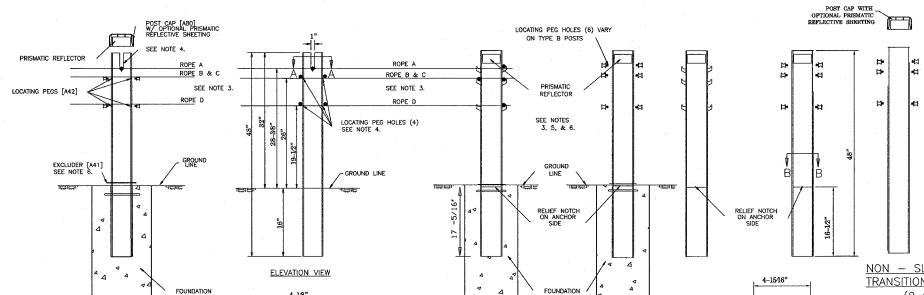
(OPTIONAL IF SPECIFIED)

SECTION A-A

BRIFFN*IISA

CONTRACT NO. 76940

R	evisions	3	T	L-4 WRSF DETAIL	LS
No.	Date	Ву	(4-ROPES	S INCLUDES TRANSITIO	ON TO TL-3)
1.	5.26.05	MW	D. /	D D	
2.	6.07.05	MW	Date 5.17.05	Drawn By	Scale
3.	6.21.05	MW	0.17.00	Manita Workman	None
4.	6.28.05	MW			Sheet No.
5.			Dwg. No.	WRSF-05-204a	4 of 9

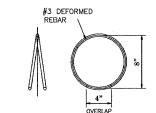


POST TYPE 'A'

NOTES:

- 1. RADIUS EDGE OF POSTS SHALL BE ON THE APPROACH SIDE OF TRAFFIC.
- 2. ROPES B, C, AND D INTERWEAVE BETWEEN ALL POSTS. SEE NOTE 3.
- 3. THE 15 TRANSITION LINE POSTS ADJACENT TO WRGT END TERMINAL DO NOT HAVE TOP ROPE SLOTS. THE TOP ROPE WEAVES ON EITHER SIDE OF POSTS UNTIL THE FIRST LINE POST WITH A SLOT.
- 4. POSTS PEG HOLES ARE PRE-DRILLED SO THAT ROPES MAY BE PLACED ON EITHER SIDE OF POST DEPENDING ON ROPE WEAVE PATTERN.
- 5. PRISMATIC REFLECTIVE SHEETING (ADHESIVE BACK) WHEN SPECIFIED SHALL BE FIELD APPLIED. SPECIFY COLOR, POST INTERVAL AND SINGLE OR DOUBLE SIDED. SEE SHEET 6 FOR CAP DETAILS.
- 6. EXCLUDER TO BE PUSHED DOWN TIGHT AGAINST TOP OF SOCKET. SOCKET SHOULD BE FLUSH WITH THE TOP OF THE FOUNDATION.
- 7. CONCRETE (BY OTHERS) TO BE 3,500 PSI MINIMUM. EXPOSED SURFACES TO BE HAND TROWELED.
- 8. WRGT END ANCHOR TERMINAL POSTS (TYPE A & B) TO BE PLACED WITH WEAKENING CUT (RELIEF NOTCH) TOWARD END ANCHOR.

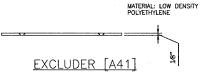
<u>NON — SLOTTED</u> TRANSITION LINE POST (8 GA) RIGHT HAND POST



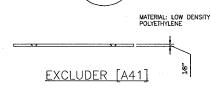
POST ORIENTATION LEFT HAND POST [A11L] RIGHT HAND POST [A11R]



SIDE VIEW PLAN VIEW REINFORCING RING DETAIL (BY OTHERS)







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Re	evision	S	SUCKE	TED POST DETAIL	1 9	
٥.	Date	Ву	(TL-3, 4 - ROPE SHOWN)			
	5.26.05	MW	Data	Drawn Ry	Coolo	
	6.21.05	MW		•	Scale	
5.	6.28.05	MW	0.17.00	Marilea Workingly	None	
					Sheet No.	
5.			Dwg. No. WF	RSF-05-205a	5 of 9	
)		Date . 5.26.05 . 6.21.05 . 6.28.05	. 5.26.05 MW . 6.21.05 MW . 6.28.05 MW	Date By (TL- 5.26.05 MW Date 6.21.05 MW 5.17.05	Revisions Date By 5.26.05 MW 6.21.05 MW 6.28.05 MW	



REINFORCING

SOCKET [A40]

SEE NOTE 7.

CONCRETE

ELEVATION VIEW

(MIN)

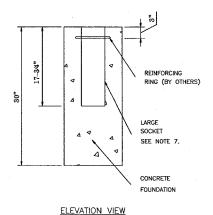
PLAN VIEW LINE POST FOUNDATION

REINFORCING RING

(BY OTHERS)

FOUNDATION

RING (BY OTHERS)



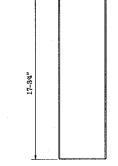
WRGT TERMINAL POSTS ASSEMBLY

POST TYPE 'B'

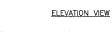
POST #2 THRU 4

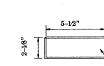
REINFORCING RING

(BY OTHERS)



POSTS TYPE A & B DETAILS





STEEL OR POLYETHYLENE BOTTOM END CLOSURE

WRGT LARGE SOCKET

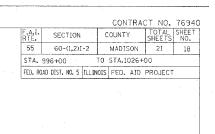
PLAN VIEW WRGT TERMINAL POST FOUNDATION

LINE POST SOCKET [A40]

ELEVATION VIEW

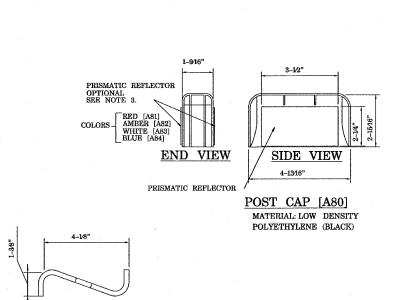
PLAN VIEW

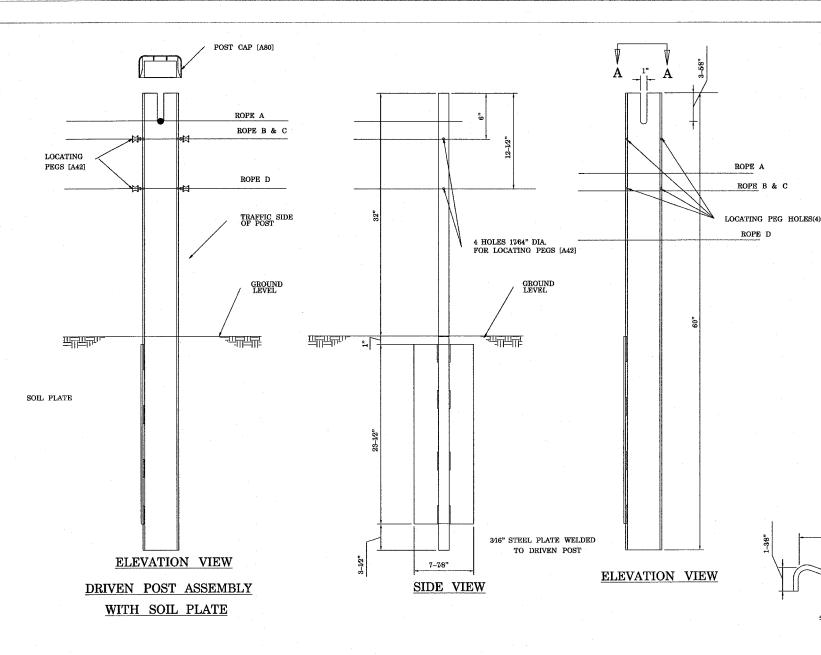
BOTTOM END CLOSURE





- 1. RADIUS EDGE OF POSTS SHALL BE ON THE APPROACH SIDE OF TRAFFIC.
- 2. THREE LOCATING PEGS PER POST ARE REQUIRED FOR 4-ROPES & TWO FOR 3-ROPES.
- 3. PRISMATIC REFLECTIVE SHEETING (ADHESIVE BACK)
 WHEN SPECIFIED SHALL BE FIELD APPLIED SPECIFY
 COLOR, POST INTERVAL AND SINGLE OR DOUBLE SIDED.
- 4. ROPES B, C, AND D INTERWEAVE BETWEEN POSTS (4-ROPES).





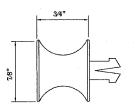
LEFT HAND POST OF RIGHT HAND POST

"L" & "R" POST ORIENTATION

LEFT HAND POST [A21L] RIGHT HAND POST [A21R]

PLAN VIEW

DRIVEN LINE POST [A21L]
("L" POST SHOWN)



<u>A-A</u>

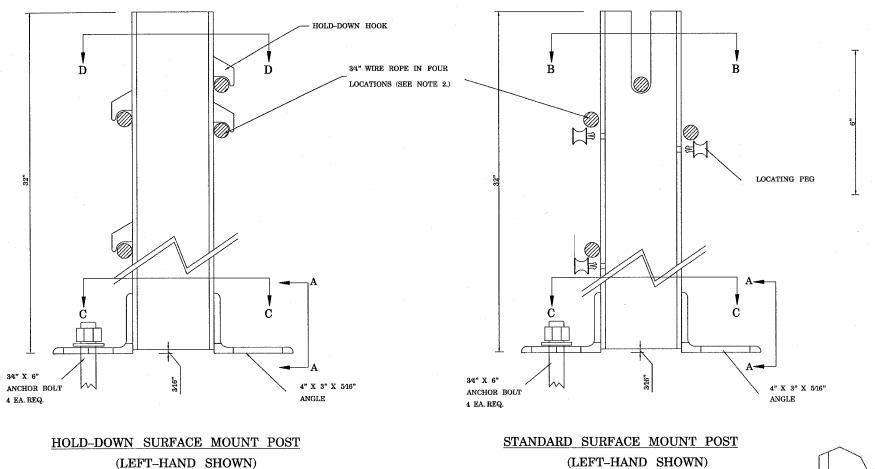
LOCATING PEG [A42]

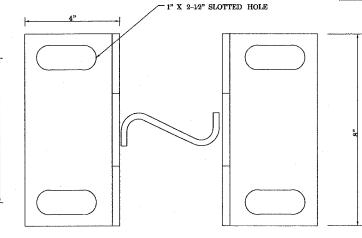
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BRIFEN*USA INC. Revisions DRIVEN LINE POST DETAIL

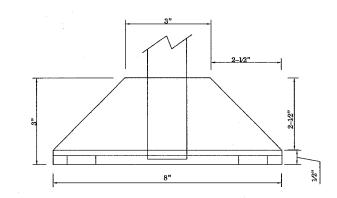
Revisions			DRIVEN	LINE POST	DETAIL		
No.	Date	Ву	DRIVEN LINE POST DETAIL (TL-3, 4-ROPES SHOWN)				
1.	5.26.05	MW	Date	Drawn By	Scale		
2.	6,21.05	MW	5.17.05	Manita Workman	None		
3.	6.28.05	MW			Sheet No.		
4.					Sheet No.		
5.			Dwg. No.	WRSF-05-206a	6 of 9		

PLOT DATE = 7/18/2005 PLOT SCALE = ciprojects/ad08335/plan/pln08 PLOT SCALE = 50.0009 / IN. REFERENCE = \$REFS





SECTION C-C



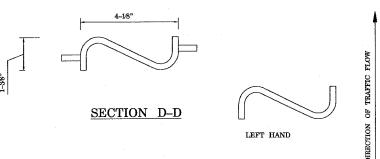
SECTION A-A

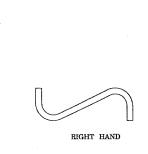
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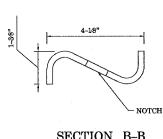
BRIFEN*USA_{INC.}

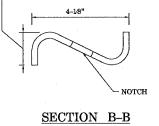
Revisions		STIDENCE MOTING DOCAS						
No.	Date	By	1	SURFACE MOUNT POSTS (4-ROPES, TL-3)				
1.	5.26.05	MW	Date	Drawn By	Scale			
2.	6.21.05	MW	5.17.05	Manita Workman				
3.	6.28.05	MW			None Sheet No.			
4.					Sneet No.			
5.			Dwg. No.	WRSF-05-207a	7 OF 9			

(LEFT-HAND SHOWN)







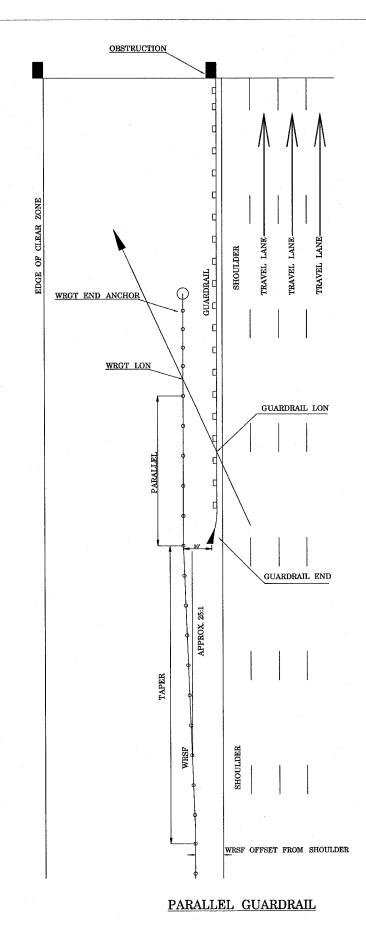


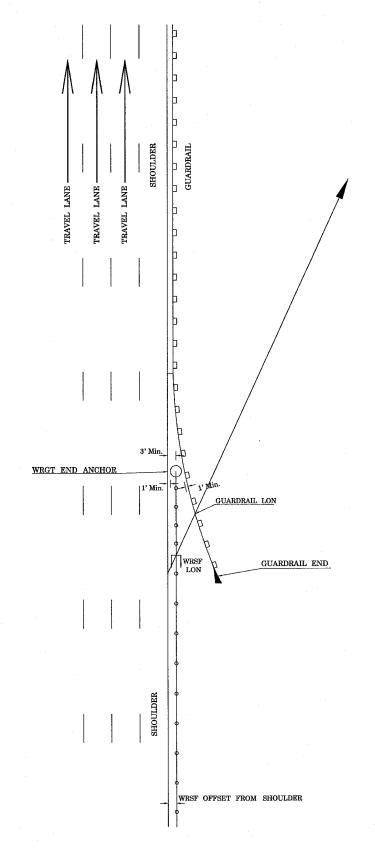
HOLD-DOWN HOOK

POST ORIENTATION

NOTES:

- 1. ARCHOR BOLTS SHALL BE B7, GALVANIZED ALL-THREAD, SET INTO SURFACE WITH AN APPROVED EPOXY PER MANUFACTURER'S RECOMMENDATIONS. EACH BOLT TO HAVE ONE ASTM-194 GALVANIZED HS HEX NUT AND ONE GALVANIZED HARD ROUND FLAT ASTM-F436 WASHER.
- 2. ROPE HEIGHTS PER BRIFEN USA DRAWING NO. 3, 4, OR 5 (TL-3 OR TL-4).
- 3. DETAILS SHOWN ARE FOR 4-ROPES TL-3 SYSTEM. SIMILAR DESIGN USED FOR 3-ROPES TL-3 AND FOR TL-4 SYSTEMS (ROPE HEIGHTS & POST SIZE VARY).



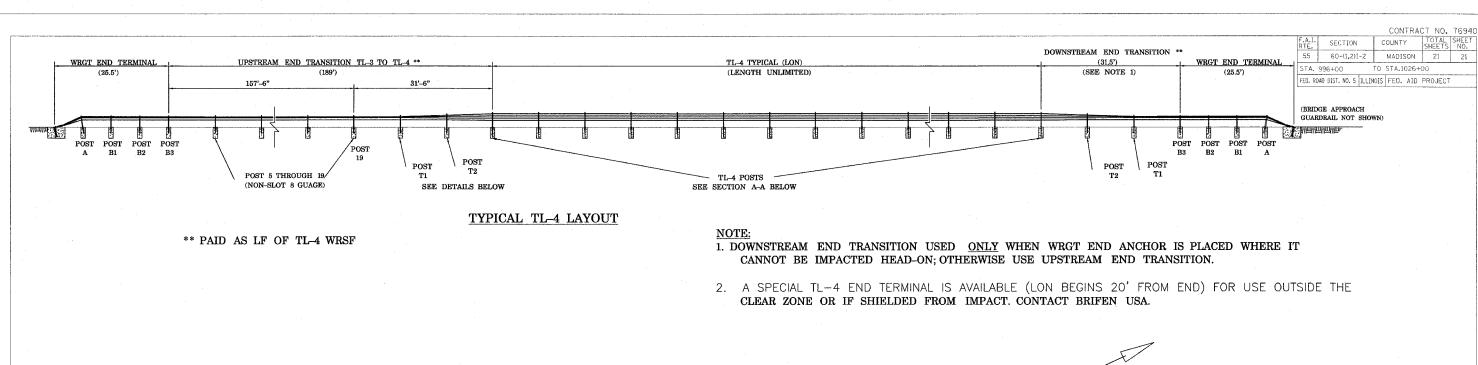


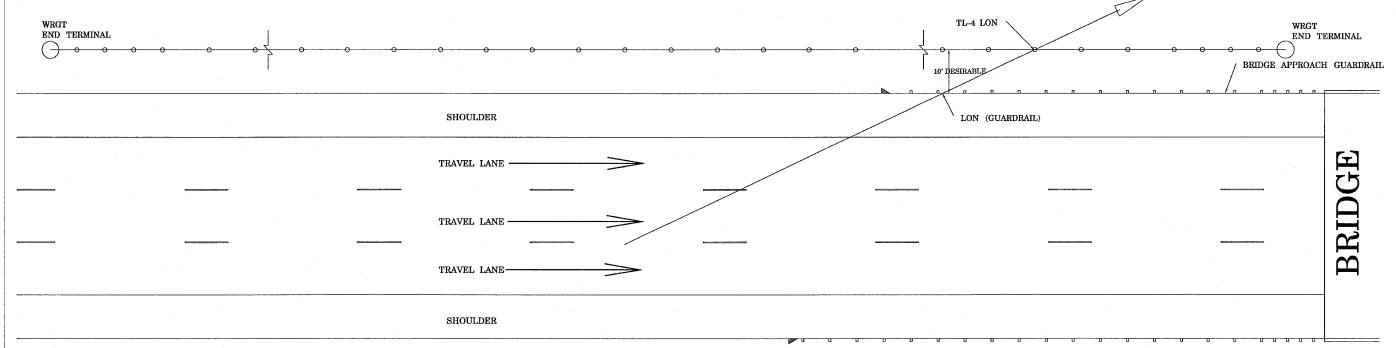
FLARED GUARDRAIL

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\mathbf{R}	evisions	3	RECOM	IMENDED WRSF I	NTERFACE			
No.	Date	By	WITH GUARDRAIL					
1.	5.26.05	MW	D-4-	Duo Dr.	G1-			
2.	6.21.05	MW	Date 5.17.05	Drawn By Manita Workman	Scale			
3.	6.28.05	MW			None			
4.					Sheet No.			
5.			Dwg. No.	WRSF-50-208a	8 of 9			





PLAN

TL-4 WRSF @ BRIDGE APPROACHES, ETC (DOWNSTREAM WRGT END ANCHOR SHIELDED) The information herein is proprietary to BRIFEN USA, and shall not be disclosed, duplicated or used otherwise without the express written consent of BRIFEN USA, Inc.

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R	evisions	8	TI_4 WR	SF AT BRIDGE A	PPROACHES			
No.	Date	Ву		(PARALLEL GUARDRAIL)				
1.	5.26.05	MW	D-4-	D	0 1			
2.	6.21.05	MW	Date 5.17.05	Drawn By Manita Workman	Scale			
3.	6.28.05	MW			None			
4.					Sheet No.			
5.			Dwg. No.	WRSF-05-209a	9 of 9			