

**ILLINOIS COMMERCE COMMISSION  
STIPULATED AGREEMENT  
CROSSING DATA FORM**

**GENERAL INFORMATION:** See Location Sketch

<b>RAILROAD</b>	Gateway Western Railway Company (GWR)
<b>USDOT#, MILEPOST</b>	294 553H, 40.28-AG
<b>STREET, CITY, COUNTY</b>	Sunderland Road/TR99, near Jerseyville, Jersey County
<b>JURISDICTION (RDWY)</b>	Jersey Township
<b>LOCATION</b>	Rural, Residential/Agricultural
<b>STREET SURFACE</b>	18 foot oil and ship surface in fair condition

**CROSSING DATA:** Also see Location Sketch for roadway profile and track centers

<b>TRACK</b>	<b>SURFACE TYPE</b>	<b>SURFACE WIDTH</b>	<b>SURFACE CONDITION</b>
Main	Timber and Asphalt	25 feet	Fair

**ROADWAY DATA:** See Location Sketch

<b>INTERSECTING ROADS:</b>	None
<b>TRAFFIC CONTROL</b>	None
<b>ADT &amp; SPEED</b>	376 Vehicles Per Day, Speed Limit not posted
<b>TRAFFIC TYPE</b>	Passenger, Possibly School Busses & Hazardous Materials
<b>ADVANCE WARNING</b>	Yes – East and West
<b>PAVEMENT MARKING</b>	None

**RAILROAD DATA:** See Location Sketch

<b>FREIGHT TRAFFIC</b>	12 Trains Per day @ 49 MPH, Day & Night Traffic
<b>PASSENGER TRAFFIC</b>	None
<b>SWITCH MOVEMENTS</b>	None
<b>WARNING DEVICES</b>	Reflective Crossbucks

**NOTES:**

**VISIBILITY STUDY:** See Location Sketch

<b>Train Speed</b>	49	<b>MPH</b>
<b>Roadway Speed</b>	(Assume) 55	<b>MPH</b>
<b>Required Stopping Sight Distance (SSD)</b>		
<b>Along Roadway</b>	573	<b>FEET</b>
<b>Along Tracks</b>	574	<b>FEET</b>
<b>Required Clearing Sight Distance (CSD)</b> (Along Tracks)	1,176	<b>FEET</b>

Distances calculated per American Association of State Highway and Transportation Officials (AASHTO), A Policy on Geometric Design of Highways and Streets, 1984.

<b>QUADRANT</b>	<b>CSD (FT)</b>	<b>OBSTRUCTION</b>	<b>SSD (FT)</b>	<b>OBSTRUCTION</b>
<b>NE</b>	*		*	Seasonal crops
<b>NW</b>	*		*	Brush and trees
<b>SE</b>	*		*	Seasonal crops
<b>SW</b>	*		*	Seasonal crops

\*Note: Automatic flashing light signals and gates (AFLS&G) eliminate the need to satisfy minimum Site Distance criteria.

**APPROACH GRADES:** See Location Sketch

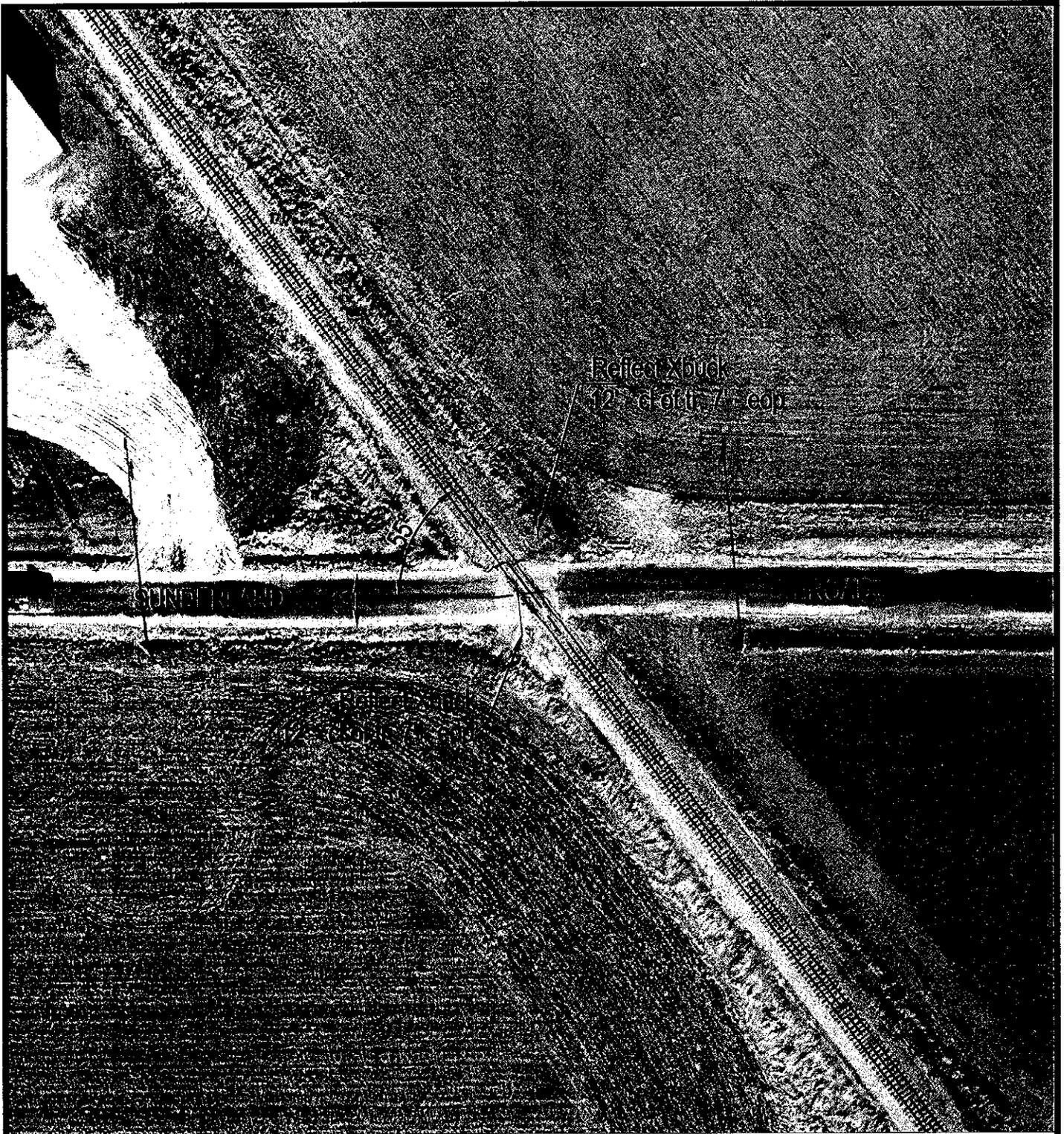
<b>DIRECTION: WEST</b>			<b>DIRECTION: EAST</b>		
<b>DISTANCE (FT)</b>	<b>ELEVATION (FT)</b>	<b>GRADE (%)</b>	<b>DISTANCE (FT)</b>	<b>ELEVATION (FT)</b>	<b>GRADE (%)</b>
0	100.0	---	0	100.0	---
25	99.7	-1.2%	25	98.7	-5.2%
50	98.5	-4.8%	50	96.2	-10.0%
100	97.2	-2.6%	100	93.2	-6.0%

Distance measured from outermost rail along the centerline of the roadway.

**COMMENTS:**

Illinois Department of Transportation will fund 100% of the warning device improvement and 90% of the surface improvements using TEA-21 monies. Jersey County will fund the remainder of the surface improvements.

The approaches do not comply with 92 Illinois Administrative Code, Part 1535.204 and will be improved at the cost of the Grade Crossing Protection Fund.

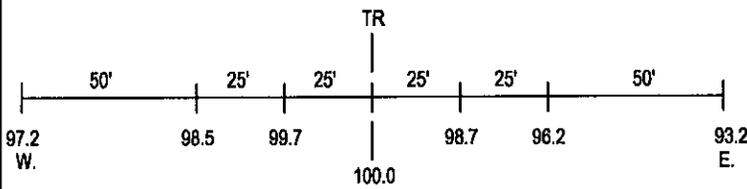


Reflect Xbuck  
12' offset

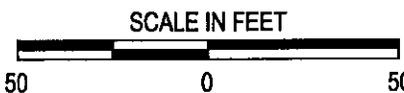
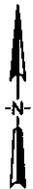
SUNDERLAND ROAD

RAILROAD

4 | JERSEY | 294553H | 294553H.DWG 03/22/00 16:22 P.M.M



ROAD PROFILE



Crossing #: 294553H  
 Location: Jersey Co., City of Jerseyville (N)  
 Lat/Long: 39°06'05" / 90°18'18"  
 Railroad: GWWR  
 Street: Sunderland Road  
 Railroad Milepost: 40.28  
 Crossing Protection: Signs



# KANSAS CITY SOUTHERN RAILWAY COMPANY

GRADE CROSSING WARNING DEVICES  
SIGNAL PROJECT EVALUATION OF COST

<b>PROJECT DESCRIPTION &amp; LOCATION</b>	<b>DATE:</b> 4/29/02
Install new flasher signals with gates and install a new 6*8' steel bungalow with constant warning time GCP# 3000D2 unit at the crossing of Gateway Western tracks with	
<b>TR 185 (Ingram Road) South of Delhi, IL, DOT # 294537Y</b>	
MP 032.40, Midcontinent Division, Godfrey Subdivision File No. SD-33-5-032.40 KCS Railway Asset #981252 RCL Project No. A1788	<b>Funding:</b> 70% I/DOT TEA-21 30% ICC GCPF

DESCRIPTION OF MATERIALS (by CONTRACTOR)	Qty	Unit Price	Total
6x8 STEEL BUNGALOW, with GCP 3000D2 Unit, and all other equipment required to control warning devices below	1 LOT	\$ 38,000	\$ 38,000
Flasher & Gate Signals, with 12" LED Lights, All aluminum gate arms, LED gate lights, signs, bells, per state specifications	1 LOT	\$ 28,500	\$ 28,500
SIGNAL MATERIAL as required for project: foundations, Underground wire & Cable, Guard Rails, Multi Shunt Boxes, Track Connectors, etc.	1 LOT	\$ 11,000	\$ 11,000
Project Material Local purchases for Fill & Rock necessary, 220 Volt AC Service Pole, Directional Boring with 4" PVC Pipe, etc.	1 LOT	\$ 9,000	\$ 9,000
Utility Relocation Overhead Power Lines running parallel to the road will need to be raised or relocated for proper clearance to the new gate arms.	1 LOT	\$ 10,000	\$ 10,000
See KCS Field Prints Dwg. No. SD-33-4-032.40A-B	<b>Material Subtotal</b>		<b>\$ 96,500</b>

LABOR & ADDITIVES, EQUIPMENT & PERSONAL EXPENSES	Qty	Unit Price	Total
KCS LABOR with additives, signal dept personnel required for supervision and field installation as directed by Signal Engineer	1 LOT	\$ 32,577	\$ 32,577
EQUIPMENT CHARGES for signal dept pickup trucks, backhoes, boom trucks with crane, and any rental equipment required	1 LOT	\$ 12,285	\$ 12,285
KCS PERSONAL EXPENSES for all signal dept. personnel	1 LOT	\$ 6,230	\$ 6,230
<b>Labor, Equipment &amp; Personal Expenses Subtotal</b>			<b>\$ 51,092</b>

CONTRACT EXPENSES			
CONTRACT ENGINEERING for technical & engineering services to provide layout design and circuit plans as directed by KCS signal dept	1 LOT	\$ 9,000	\$ 9,000
CONTRACT PROJECT MANAGEMENT for project management services as directed by KCS signal dept	1 LOT	\$ 7,064	\$ 7,064
CONTRACTOR'S LIABILITY INSURANCE		5.88%	\$ 197
CONTRACT PROJECT ADMINISTRATION FEE	1 LOT	\$ 11,276	\$ 11,276
<b>Contractor Subtotal</b>			<b>\$ 27,538</b>

<b>Total Estimated Cost to install Flasher &amp; Gate Signals at TR 185 (Ingram Road) South of Delhi, IL, DOT # 294537Y</b>	<b>\$175,130</b>
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This estimate of cost is limited to 180 days from date of issuance, KCS shall authorize its use after this time period or submit a revised estimate of cost

SA 988

EXHIBIT B-1, Page 1



EXHIBIT B-1, Page 1.6.

APPROACH LENGTHS ALLOW FOR:

TIME IN SECONDS	SB APPR.	SB APPR.	NB APPR.	NB APPR.
	TRK. 1	TRK. 1	TRK. 2	TRK. 2
	CMT / MAIN		CMT / PASS	
STANDARD MIN. TIME	25	25		
CLEARANCE TIME				
INTERCONNECT TIME				
ADJUSTMENT TIME:				
EQUIPMENT RESPONSE TIME	5	5		
MS / CMT RESPONSE TIME	5	5		
BUFFER TIME (OVERSEEN)	5	5		
TOTAL TIME	35	35		
MAX. SPEED (M.P.H.)	60	60		
APPROACH DISTANCE (FEET)	3080'	3080'		
LOCATION AT M.P.	031.81	032.99		

REVISION BLOCK  
 REV PER ON-SITE W/BRIAN BROCK & JCK 04/17/02

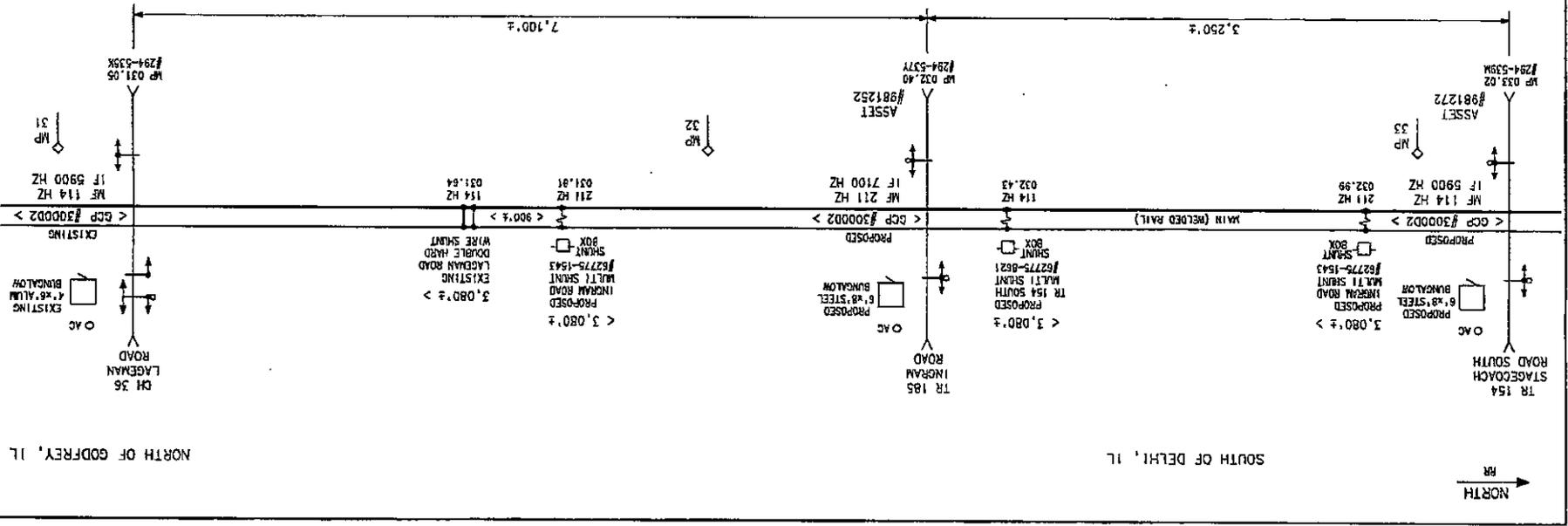
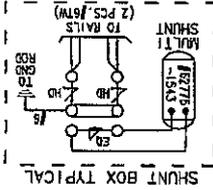
STATES IDENTIFICATION:  
 STATE PROJECT ENGINEER: MR. DEAN HUFF  
 HIGHWAY COMMISSIONER  
 R. R. #2 BOX 67H  
 JERSEYVILLE, IL 62052  
 PHONE 618-372-3178  
 JERSEYVILLE, IL 62052  
 PROJECT NO. 98-07105-01-SP  
 SECTION NO. 98-07105-01-SP  
 RRP-083(28)  
 JOB NO. C-98-030-99  
 AAR DOT NO. 294-537Y

PROPOSED FOR THE GWR TO INSTALL NEW FLASHERS AND GATES, AND A NEW 6"x8" STEEL BUNGALOW WITH GCP #300DD2 UNIT (CONSTANT WARNING TIME SIGNAL PROJECT FUNDING... IDOT (TEA-21) 70% ICC (GCPF) 30%

2 WEEKS NOTICE REQUIRED  
 JOB SITE TO BEGIN WORK

STATE PROJECT ENGINEER  
 WHEN GATES SHUT UP AT  
 SIGNAL FORGEMAN TO CALL

KANSAS CITY SOUTHERN LINES SIGNAL DEPT.  
 DMC. NO. SD-33-4-032.40B  
 LOCATION TR 185 (INGRAM ROAD) SOUTH OF DELHI, IL  
 FILE SD-33-5-032.40  
 DOT NO. 294-537Y  
 MILE POST 032.40





# KANSAS CITY SOUTHERN RAILWAY COMPANY

## GRADE CROSSING WARNING DEVICES SIGNAL PROJECT EVALUATION OF COST

<b>PROJECT DESCRIPTION &amp; LOCATION</b>		<b>DATE: 4/29/02</b>
Install new flasher signals with gates and install a new 6"x8' steel bungalow with constant warning time GCP# 3000D2 unit at the crossing of Gateway Western tracks with		
<b>TR 154 (Stagecoach Rd. South) South of Delhi, IL, DOT # 294539M</b>		
MP 033.02, Midcontinent Division, Godfrey Subdivision File No. SD-33-5-033.02 KCS Railway Asset #981272 RCL Project No. A1789	<b>Funding:</b>	70% I/DOT TEA-21 30% ICC GCPF
	<b>State Project No.:</b>	
	<b>F.A.P. No.:</b>	

DESCRIPTION OF MATERIALS (by CONTRACTOR)	Qty	Unit Price	Total
6x8 STEEL BUNGALOW, with GCP 3000D2 Unit, and all other equipment required to control warning devices below	1 LOT	\$ 38,000	\$ 38,000
Flasher & Gate Signals, with 12" LED Lights, All aluminum gate arms, LED gate lights, signs, bells, per state specifications	1 LOT	\$ 28,500	\$ 28,500
SIGNAL MATERIAL as required for project: foundations, Underground wire & Cable, Guard Rails, Multi Shunt Boxes, Track Connectors, etc.	1 LOT	\$ 11,000	\$ 11,000
Project Material Local purchases for Fill & Rock necessary, 220 Volt AC Service Pole, Directional Boring with 4" PVC Pipe, etc.	1 LOT	\$ 9,000	\$ 9,000
Utility Relocation Fire Hydrant is in exact spot where signal in SE Quad Should be located, may need to relocate or vary signal location.	1 LOT	\$ 10,000	\$ 10,000
See KCS Field Prints Dwg. No. SD-33-4-033.02A-B		<b>Material Subtotal</b>	<b>\$ 96,500</b>

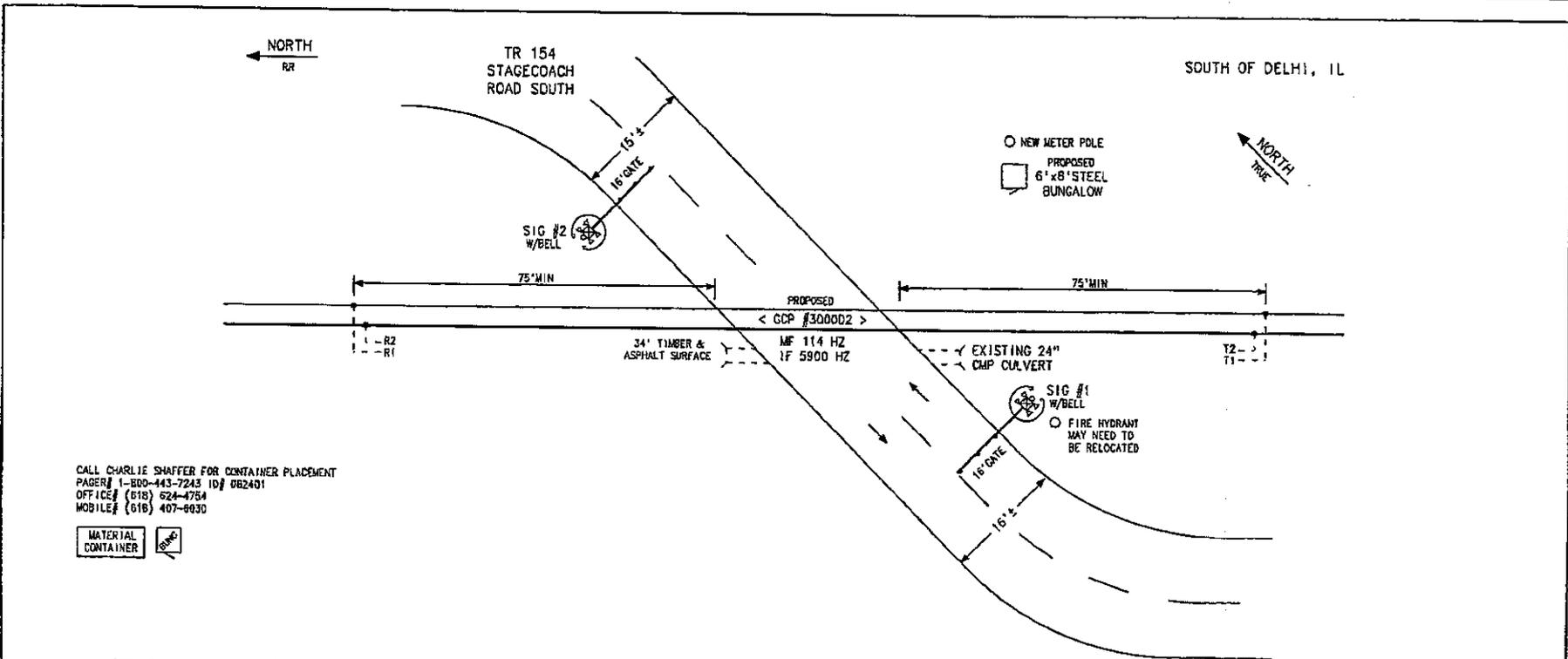
LABOR & ADDITIVES, EQUIPMENT & PERSONAL EXPENSES	Qty	Unit Price	Total
KCS LABOR with additives, signal dept personnel required for supervision and field installation as directed by Signal Engineer	1 LOT	\$ 32,577	\$ 32,577
EQUIPMENT CHARGES for signal dept pickup trucks, backhoes, boom trucks with crane, and any rental equipment required	1 LOT	\$ 12,285	\$ 12,285
KCS PERSONAL EXPENSES for all signal dept. personnel	1 LOT	\$ 6,230	\$ 6,230
		<b>Labor, Equipment &amp; Personal Expenses Subtotal</b>	<b>\$ 51,092</b>

CONTRACT EXPENSES			
CONTRACT ENGINEERING for technical & engineering services to provide layout design and circuit plans as directed by KCS signal dept	1 LOT	\$ 9,000	\$ 9,000
CONTRACT PROJECT MANAGEMENT for project management services as directed by KCS signal dept	1 LOT	\$ 7,064	\$ 7,064
CONTRACTOR'S LIABILITY INSURANCE		5.88%	\$ 197
CONTRACT PROJECT ADMINISTRATION FEE	1 LOT	\$ 11,276	\$ 11,276
		<b>Contractor Subtotal</b>	<b>\$ 27,538</b>

<b>Total Estimated Cost to install Flasher &amp; Gate Signals at</b>	<b>\$175,130</b>
<b>TR 154 (Stagecoach Rd. South) South of Delhi, IL, DOT # 294539M</b>	

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EXHIBIT B-2, Page 1a.



CALL CHARLIE SHAFFER FOR CONTAINER PLACEMENT  
 PAGER# 1-800-443-7243 ID# 082401  
 OFFICE# (618) 624-4754  
 MOBILE# (618) 407-9030

MATERIAL CONTAINER

**TR 154 (STAGECOACH ROAD SOUTH) NOTES:**

- 1.) PROPOSED TO INSTALL THE FOLLOWING AS PART OF THIS STATE PROJECT:
  - 2 EA. FLASHER & GATE SIGNALS WITH 12" LED LIGHTS
  - 1 EA. 6'x8' STEEL BUNGALOW WITH A CONSTANT WARNING TIME TRAIN DETECTION DEVICE
  - 2 EA. SHUNT BOX ASSEMBLIES WITH MULTI SHUNTS
  - 2 EA. 2/3RD CIRC. GUARD RAILS
  - 1 EA. 220 VAC METER POLE
- 2.) 4" PVC CONDUIT FOR SIGNAL CABLING UNDER ROADWAY WILL BE INSTALLED BY DIRECTIONAL BORING METHOD
- 3.) APPROX TONS OF FILL MATERIAL REQUIRED FOR BUNGALOW & SIGNALS
- 4.) SMALL FIRE HYDRANT APPROXIMATELY WHERE SIG #1 IS TO BE PLACED. IT MAY NEED TO BE RELOCATED.
- 5.) ANY UTILITIES THAT INTERFERE WITH PROPER SIGNAL PLACEMENT WILL BE RELOCATED AT PROJECT EXPENSE
- 6.) ANY POWER LINES IN AREA WILL NEED TO BE AT LEAST 10' FROM TIP OF GATE ARM IN RAISED POSITION (VERTICAL)
- 7.) ANY DRAINAGE WORK REQUIRED FOR THE PROPER SIGNAL OR BUNGALOW PLACEMENT WILL BE AT PROJECT EXPENSE
- 8.) ALL PROPOSED DIMENSIONS ARE PLUS OR MINUS AT THE DISCRETION OF THE KCS SIGNAL SUPERVISOR AND/OR THE KCS PROJECT ENGINEER, IF WITHIN THE STATE GUIDELINES

**BUNGALOW LOCATION:**

- 50'-0" FROM THE EDGE OF PAVED ROAD, MEASURED ALONG THE NEAR RAIL FROM NEAREST SIDE OF BUNGALOW TO EDGE OF THE PAVED ROAD
- 25'-0" FROM THE NEAR RAIL, MEASURED PERPENDICULAR TO RAIL FROM NEAREST SIDE OF BUNGALOW TO THE NEAREST EDGE OF RAIL

**CONDUIT LOCATION:**

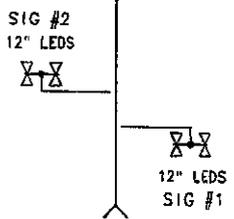
- FROM NEAR RAIL/NORTH QUAD MEASURED PERPENDICULAR TO RAIL
- FROM EDGE OF ROAD/NORTH QUAD MEASURED PERPENDICULAR TO ROAD IN DEPTH / NORTH QUAD
- FROM NEAR RAIL/SOUTH QUAD MEASURED PERPENDICULAR TO RAIL
- FROM EDGE OF ROAD/SOUTH QUAD MEASURED PERPENDICULAR TO ROAD IN DEPTH / SOUTH QUAD

**SIG #1 LOCATION: (MAY VARY FROM STANDARD)**

- FROM THE EDGE OF PAVED ROAD, MEASURED PERPENDICULAR TO ROAD FROM CENTER OF SIGNAL POLE TO THE EDGE OF PAVED ROAD
- FROM THE NEAR RAIL AT BASE, MEASURED PERPENDICULAR TO RAIL FROM CENTER OF SIGNAL POLE TO THE NEAREST EDGE OF RAIL

**SIG #2 LOCATION:**

- 8'-3" FROM THE EDGE OF PAVED ROAD, MEASURED PERPENDICULAR TO RAIL FROM CENTER OF SIGNAL POLE TO THE EDGE OF PAVED ROAD
- 15'-0" FROM THE NEAR RAIL AT BASE, MEASURED PERPENDICULAR TO RAIL FROM CENTER OF SIGNAL POLE TO THE NEAREST EDGE OF RAIL



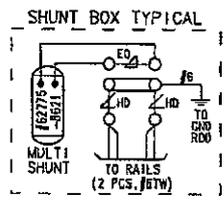
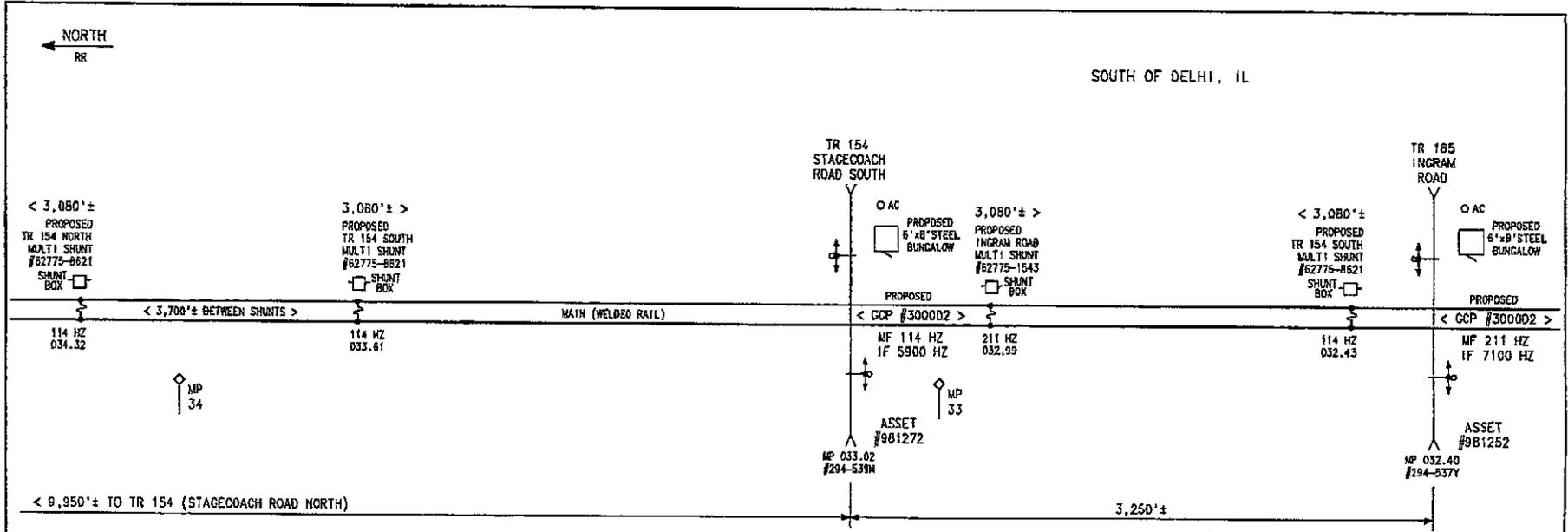
KANSAS CITY SOUTHERN LINES SIGNAL DEPT.  
 DWG. NO. SD-33-4-033.02A  
 LOCATION TR 154 (STAGECOACH ROAD SOUTH) SOUTH OF DELHI, IL

REVISION BLOCK	REV PER ON-SITE W/BRIAN BROCK & JCK 04/17/02
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ORANGE=OUT  
 BLUE = IN  
 GREEN=NOTE  
 ASSET #981272

FILE SD-33-5-033.02  
 DDT NO. 294-539M  
 MILE POST 033.02

EXHIBIT B-2, Page 1.b



APPROACH LENGTHS ALLOW FOR:

TIME IN SECONDS	CWT / MAIN		CWT / PASS	
	NB. APPR. TRK. 1	SB. APPR. TRK. 1	NB. APPR. TRK. 2	SB. APPR. TRK. 2
STANDARD MIN. TIME	25	25		
CLEARANCE TIME				
INTERCONNECT TIME				
MINIMUM WARNING TIME	20	20		
ADJUSTMENT TIME:				
EQUIPMENT RESPONSE TIME				
GATES				
MS / CWT RESPONSE TIME	5	5		
BUFFER TIME (OVERSPEED)	5	5		
TOTAL TIME	35	35		
MAX. SPEED (M.P.H.)	60	60		
APPROACH DISTANCE (FEET)	3080'	3080'		
LOCATION AT M.P.	032.43	033.61		

PROPOSED FOR THE GWR TO INSTALL NEW FLASHERS AND GATES, AND A NEW 6'x8' STEEL BUNGALOW WITH GCP #3000D2 UNIT (CONSTANT WARNING TIME) SIGNAL PROJECT FUNDING... IDOT (TEA-21) 70% ICC (GCPF) 30%

STATES IDENTIFICATION... STATE PROJECT ENGINEER:  
 PIASA TOWNSHIP \_\_\_\_\_  
 JERSEY COUNTY \_\_\_\_\_  
 SECTION NO. \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_  
 JOB NO. \_\_\_\_\_  
 AAR DOT NO. 294-539M 2 WEEKS NOTICE REQUIRED

SIGNAL FORDMAN TO CALL STATE PROJECT ENGINEER WHEN GANG SHOWS UP AT JOB SITE TO BEGIN WORK

KANSAS CITY SOUTHERN LINES SIGNAL DEPT.

DWG. NO. SD-33-4-033.02B

LOCATION TR 154 (STAGECOACH ROAD SOUTH) SOUTH OF DELHI, IL

FILE SD-33-5-033.02  
 DOT NO. 294-539M  
 MILE POST 033.02

REVISION BLOCK	REV PER ON-SITE W/BRIAN BROCK & JCK D4/17/02
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# KANSAS CITY SOUTHERN RAILWAY COMPANY

GRADE CROSSING WARNING DEVICES  
SIGNAL PROJECT EVALUATION OF COST

<b>PROJECT DESCRIPTION &amp; LOCATION</b>		<b>DATE: 4/29/02</b>
Install new flasher signals with gates and install a new 6"x8' steel bungalow with constant warning time GCP# 3000D2 unit at the crossing of Gateway Western tracks with		
<b>TR 154 (Stagecoach Rd. North) South of Delhi, IL, DOT # 294541N</b>		
MP 034.91, Midcontinent Division, Godfrey Subdivision File No. SD-33-5-034.91 KCS Railway Asset #981273 RCL Project No. A1790	<b>Funding:</b> 70% I/DOT TEA-21 30% ICC GCPF	<b>State Project No.:</b> <b>F.A.P. No.:</b>

DESCRIPTION OF MATERIALS (by CONTRACTOR)	Qty	Unit Price	Total
6x8 STEEL BUNGALOW, with GCP 3000D2 Unit, and all other equipment required to control warning devices below	1 LOT	\$ 48,000	\$ 48,000
Flasher & Gate Signals, with 12" LED Lights, All aluminum gate arms, LED gate lights, signs, bells, per state specifications	1 LOT	\$ 28,500	\$ 28,500
SIGNAL MATERIAL as required for project: foundations, Underground wire & Cable, Guard Rails, Multi Shunt Boxes, Track Connectors, etc.	1 LOT	\$ 12,000	\$ 12,000
FAS 748 (McClusky Road) DOT #294542V, New Uni-Dirc GCP unit, SSR-Data Radio, PSO receiver & relay, for DAX output to TR 154.	1 LOT	\$ 36,000	\$ 36,000
Project Material Local purchases for Fill & Rock necessary, 220 Volt AC Service Pole, Directional Boring with 4" PVC Pipe, etc.	1 LOT	\$ 10,500	\$ 10,500
See KCS Field Prints Dwg. No. SD-33-4-034.91A-B	<b>Material Subtotal</b>		<b>\$ 135,000</b>

LABOR & ADDITIVES, EQUIPMENT & PERSONAL EXPENSES	Qty	Unit Price	Total
KCS LABOR with additives, signal dept personnel required for supervision and field installation as directed by Signal Engineer	1 LOT	\$ 40,349	\$ 40,349
EQUIPMENT CHARGES for signal dept pickup trucks, backhoes, boom trucks with crane, and any rental equipment required	1 LOT	\$ 15,285	\$ 15,285
KCS PERSONAL EXPENSES for all signal dept. personnel	1 LOT	\$ 7,730	\$ 7,730
<b>Labor, Equipment &amp; Personal Expenses Subtotal</b>			<b>\$ 63,364</b>

CONTRACT EXPENSES			
CONTRACT ENGINEERING for technical & engineering services to provide layout design and circuit plans as directed by KCS signal dept	1 LOT	\$ 11,250	\$ 11,250
CONTRACT PROJECT MANAGEMENT for project management services as directed by KCS signal dept	1 LOT	\$ 7,064	\$ 7,064
CONTRACTOR'S LIABILITY INSURANCE		5.88%	\$ 197
CONTRACT PROJECT ADMINISTRATION FEE	1 LOT	\$ 15,351	\$ 15,351
<b>Contractor Subtotal</b>			<b>\$ 33,863</b>

<b>Total Estimated Cost to install Flasher &amp; Gate Signals at TR 154 (Stagecoach Rd. North) South of Delhi, IL, DOT # 294541N</b>	<b>\$232,227</b>
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This estimate of cost is limited to 180 days from date of issuance, KCS shall authorize it's use after this time period or submit a revised estimate of cost

## DESCRIPTION OF THE PROPOSED GCP TRAIN DETECTION SYSTEM SOUTH OF DELHI, IL

THIS PROPOSED STATE CROSSING PROJECT LOCATION REQUIRES INSTALLATION OF FLASHER SIGNALS WITH GATES AND CONSTANT WARNING TIME TRAIN DETECTION DEVICE. THERE IS AN EXISTING TRAIN CONTROL SIGNAL 2,000'± NORTH OF TR 154 WITH INSULATED JOINTS IN THE APPROACH CIRCUIT. THIS SIGNAL IS JUST NORTH OF THE EXISTING FAS 748 (McCLUSKY ROAD) FLASHER SIGNALS.

THE MOST RELIABLE APPLICATION DESIGN IS TO USE A DAXING GCP FROM THE REMOTE LOCATION TO THE CONTROLLED CROSSING. THEREFORE, WE PROPOSED TO INSTALL A UNI-DIRECTIONAL GCP IN THE EXISTING FAS 748 BUNGALOW AROUND THE TRAIN CONTROL SIGNAL INSULATED JOINTS. THIS GCP UNIT WOULD COMMUNICATE A DAX OUTPUT TO TR 154 VIA A SSR-DATA RADIO LINK IN ORDER TO GET ENOUGH APPROACH LENGTH FOR SOUTHBOUND TRAINS ONLY.

**TR 154 (STAGECOACH ROAD NORTH)      MP 034.91      DOT #294-541N**

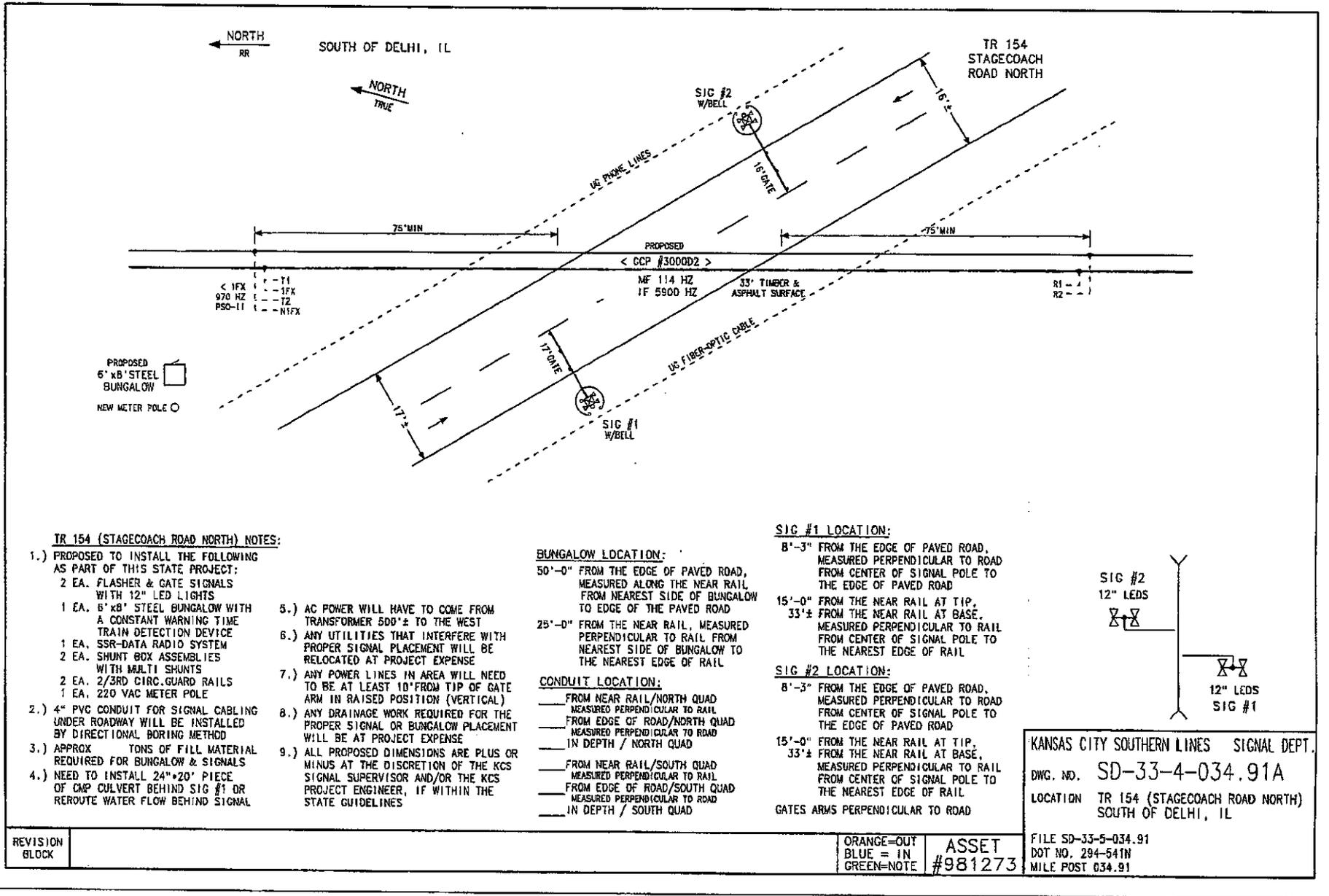
- a.) INSTALL A NEW 6'x 8' STEEL BUNGALOW WITH A CONSTANT WARNING TIME GCP UNIT AND A SSR-DATA RADIO SYSTEM TO COMMUNICATE WITH THE FAS 748 CROSSING TO THE NORTH.
- b.) INSTALL TWO NEW FLASHER SIGNALS WITH GATES.
- c.) SEE KCSR LAYOUT PLANS DWG NO SD-33-4-034.91A-B

**FAS 748 (McCLUSKY ROAD)                      MP 035.28      DOT #294-542V**

- a.) THE FOLLOWING NEW EQUIPMENT TO BE WIRED INTO THE EXISTING BUNGALOW AT FAS 748 McCLUSKY ROAD.
- b.) INSTALL A NEW CONSTANT WARNING TIME GCP UNIT WITH A UNI-DIRECTIONAL APPLICATION AROUND THE TRAIN CONTROL SIGNAL INSULATED JOINTS. WITH A SSR-DATA RADIO SYSTEM TO COMMUNICATE A DAX OUTPUT TO THE TR 154 CROSSING SOUTH OF THIS LOCATION.
- c.) SEE KCSR LAYOUT PLANS DWG NO SD-33-4-035.28A-B

KCSR SIGNAL DEPT  
APRIL 19, 2002

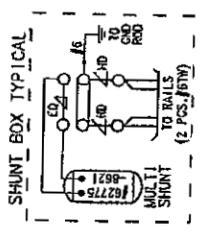
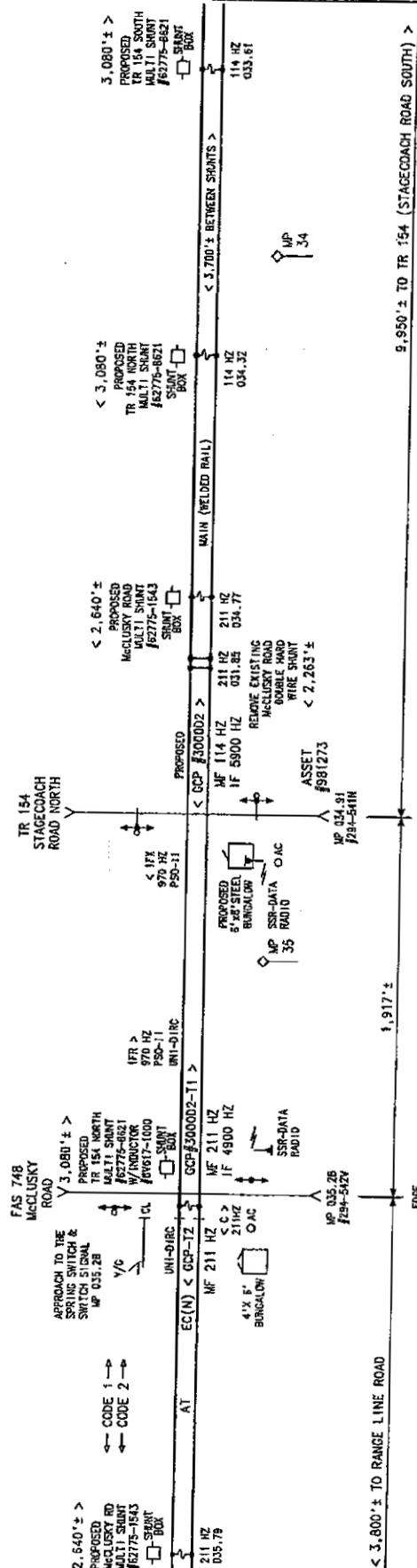
*EXHIBIT B-3, Page 1.2*



NORTH  
RR

DELHI, IL

SOUTH OF DELHI, IL



APPROACH LENGTHS ALLOW FOR:

TIME IN SECONDS	SWT / MAIN	SWT / PASS
FORWARD WIR. TIME	TR. 1	TRK. 2
CL. CLEARANCE TIME	TR. 1	TRK. 2
INTERRUPT TIME	TR. 1	TRK. 2
MINIMUM WARNING TIME	20	20
ADJUSTMENT TIME	5	5
COMPONENT RESPONSE TIME	5	5
GATES	5	5
MS / SWT RESPONSE TIME	5	5
MS / SWT RESPONSE TIME	5	5
BUFFER TIME (OVERSPEED)	5	5
TOTAL TIME	35	35
MAX. SPEED (M.P.H.)	60	60
APPROACH DISTANCE (FEET)	3000'	3000'
LOCATION AT M.P.	034.32	035.50

PROPOSED FOR THE GWRR TO INSTALL NEW FLASHERS AND GATES, AND A NEW 6'x8' STEEL BUNGALOW WITH GCP #3000D2 UNIT (CONSTANT WARNING TIME) SIGNAL PROJECT FUNDING... IDOT (TEA-21) 70% ICC (CCPF) 30%

STATES IDENTIFICATION... STATE PROJECT ENGINEER:  
PIASA TOWNSHIP  
JERSEY COUNTY  
SECTION NO. \_\_\_\_\_  
PROJECT NO. \_\_\_\_\_  
JOB NO. \_\_\_\_\_  
AAR DOT NO. 294-541N

SIGNAL FUNDING TO CALL STATE PROJECT ENGINEER WHEN GATE SPONS UP AT JOB SITE TO BEGIN WORK

2 WEEKS NOTICE REQUIRED

REVISION BLOCK

KANSAS CITY SOUTHERN LINES SIGNAL DEPT.  
DWG. NO. SD-33-4-034.91B  
LOCATION TR 154 (STAGECOACH ROAD NORTH) SOUTH OF DELHI, IL  
FILE SD-33-5-034.91  
DOT NO. 294-541N  
MILE POST 034.91





# KANSAS CITY SOUTHERN RAILWAY COMPANY

GRADE CROSSING WARNING DEVICES  
SIGNAL PROJECT EVALUATION OF COST

<b>PROJECT DESCRIPTION &amp; LOCATION</b>		<b>DATE: 4/29/02</b>
Install new flasher signals with gates and install a new 6'x8' steel bungalow with constant warning time GCP# 3000D2 unit at the crossing of Gateway Western tracks with		
<b>TR 99 (Sunderland Rd.) South of Jerseyville, IL, DOT # 294553H</b>		
MP 040.28, Midcontinent Division, Godfrey Subdivision File No. SD-33-5-040.28 KCS Railway Asset #981274 RCL Project No. A1791	<b>Funding:</b> 70% I/DOT TEA-21 30% ICC GCPF	<b>Surface:</b> 90% I/DOT TEA-21 10% Jersey County

DESCRIPTION OF MATERIALS (by CONTRACTOR)	Qty	Unit Price	Total
6x8 STEEL BUNGALOW, with GCP 3000D2 Unit, and all other equipment required to control warning devices below	1 LOT	\$ 38,000	\$ 38,000
Flasher & Gate Signals, with 12" LED Lights, All aluminum gate arms, LED gate lights, signs, bells, per state specifications	1 LOT	\$ 28,500	\$ 28,500
SIGNAL MATERIAL as required for project: foundations, Underground wire & Cable, Guard Rails, Multi Shunt Boxes, Track Connectors, etc.	1 LOT	\$ 11,000	\$ 11,000
Project Material Local purchases for Fill & Rock necessary, 220 Volt AC Service Pole, Directional Boring with 4" PVC Pipe, etc.	1 LOT	\$ 12,000	\$ 12,000
Utility Relocation Overhead Power Lines running parallel to the road will need to be raised or relocated for proper clearance to the new gate arms.	1 LOT	\$ 10,000	\$ 10,000
See KCS Field Prints Dwg. No. SD-33-4--040.28A-B	<b>Material Subtotal</b>		<b>\$ 99,500</b>

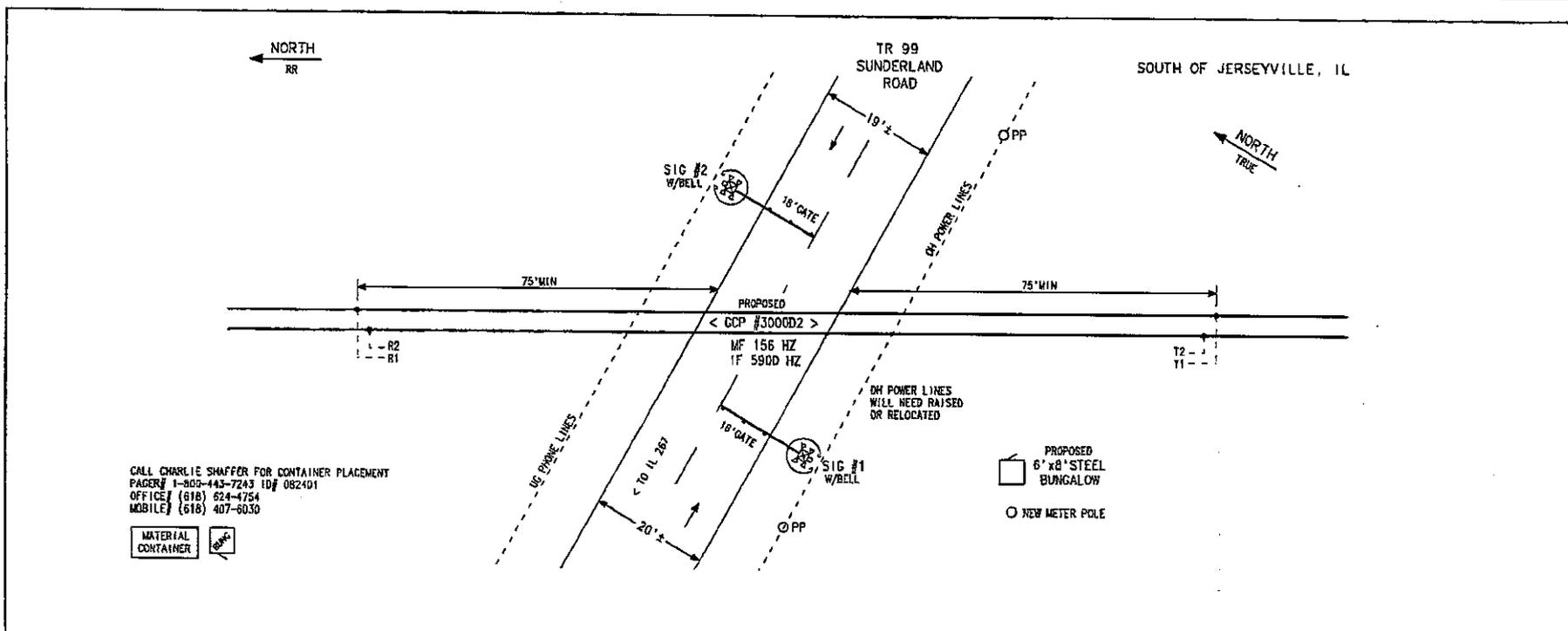
LABOR & ADDITIVES, EQUIPMENT & PERSONAL EXPENSES	Qty	Unit Price	Total
KCS LABOR with additives, signal dept personnel required for supervision and field installation as directed by Signal Engineer	1 LOT	\$ 32,577	\$ 32,577
EQUIPMENT CHARGES for signal dept pickup trucks, backhoes, boom trucks with crane, and any rental equipment required	1 LOT	\$ 12,285	\$ 12,285
KCS PERSONAL EXPENSES for all signal dept. personnel	1 LOT	\$ 6,230	\$ 6,230
<b>Labor, Equipment &amp; Personal Expenses Subtotal</b>			<b>\$ 51,092</b>

CONTRACT EXPENSES			
CONTRACT ENGINEERING for technical & engineering services to provide layout design and circuit plans as directed by KCS signal dept	1 LOT	\$ 9,000	\$ 9,000
CONTRACT PROJECT MANAGEMENT for project management services as directed by KCS signal dept	1 LOT	\$ 7,064	\$ 7,064
CONTRACTOR'S LIABILITY INSURANCE		5.88%	\$ 197
CONTRACT PROJECT ADMINISTRATION FEE	1 LOT	\$ 11,576	\$ 11,576
<b>Contractor Subtotal</b>			<b>\$ 27,838</b>

<b>Total Estimated Cost to install Flasher &amp; Gate Signals at TR 99 (Sunderland Rd.) South of Jerseyville, IL, DOT # 294553H</b>	<b>\$178,430</b>
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This estimate of cost is limited to 180 days from date of issuance, KCS shall authorize it's use after this time period or submit a revised estimate of cost

EXHIBIT B-4, Page 1.3



CALL CHARLIE SHAFFER FOR CONTAINER PLACEMENT  
 PAGER# 1-800-443-7243 ID# 082401  
 OFFICE# (618) 624-4754  
 MOBILE# (618) 407-6030

MATERIAL CONTAINER

PROPOSED 6'x8' STEEL BUNGALOW  
 ○ NEW METER POLE

**TR 99 (SUNDERLAND ROAD) NOTES:**

- 1.) PROPOSED TO INSTALL THE FOLLOWING AS PART OF THIS STATE PROJECT:
  - 2 EA. FLASHER & GATE SIGNALS WITH 12" LED LIGHTS
  - 1 EA. 6'x8' STEEL BUNGALOW WITH A CONSTANT WARNING TIME TRAIN DETECTION DEVICE
  - 2 EA. SHUNT BOX ASSEMBLIES WITH MULTI SHUNTS
  - 2 EA. 2/3RD CIRC. GUARD RAILS
  - 1 EA. 220 VAC METER POLE
- 2.) 4" PVC CONDUIT FOR SIGNAL CABLING UNDER ROADWAY WILL BE INSTALLED BY DIRECTIONAL BORING METHOD
- 3.) APPROX 10 TONS OF FILL MATERIAL REQUIRED FOR BUNGALOW & SIGNALS
- 4.) NEED TO INSTALL 24"x20" PIECE OF COP CULVERT BEHIND SIG #1 OR REDROUTE WATER FLOW BEHIND SIGNAL
- 5.) MAY NEED TO INSTALL 24"x20" PIECE OF COP CULVERT IN SW QUAD. SO THAT YOU CAN MAKE A DRIVEWAY TO BUNGALOW
- 6.) ANY UTILITIES THAT INTERFERE WITH PROPER SIGNAL PLACEMENT WILL BE RELOCATED AT PROJECT EXPENSE
- 7.) ANY POWER LINES IN AREA WILL NEED TO BE AT LEAST 10' FROM TIP OF GATE ARM IN RAISED POSITION (VERTICAL)
- 8.) ANY DRAINAGE WORK REQUIRED FOR THE PROPER SIGNAL OR BUNGALOW PLACEMENT WILL BE AT PROJECT EXPENSE
- 9.) ALL PROPOSED DIMENSIONS ARE PLUS OR MINUS AT THE DISCRETION OF THE KCS SIGNAL SUPERVISOR AND/OR THE KCS PROJECT ENGINEER, IF WITHIN THE STATE GUIDELINES

**BUNGALOW LOCATION:**

- 50'-0" FROM THE EDGE OF PAVED ROAD, MEASURED ALONG THE NEAR RAIL FROM NEAREST SIDE OF BUNGALOW TO EDGE OF THE PAVED ROAD
- 25'-0" FROM THE NEAR RAIL, MEASURED PERPENDICULAR TO RAIL FROM NEAREST SIDE OF BUNGALOW TO THE NEAREST EDGE OF RAIL

**CONDUIT LOCATION:**

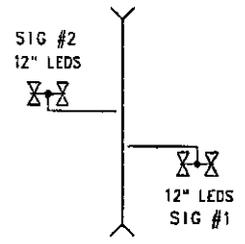
- FROM NEAR RAIL/NORTH QUAD — MEASURED PERPENDICULAR TO RAIL
- FROM EDGE OF ROAD/NORTH QUAD — MEASURED PERPENDICULAR TO ROAD (IN DEPTH / NORTH QUAD)
- FROM NEAR RAIL/SOUTH QUAD — MEASURED PERPENDICULAR TO RAIL
- FROM EDGE OF ROAD/SOUTH QUAD — MEASURED PERPENDICULAR TO ROAD (IN DEPTH / SOUTH QUAD)

**SIG #1 LOCATION:**

- 8'-3" FROM THE EDGE OF PAVED ROAD, MEASURED PERPENDICULAR TO ROAD FROM CENTER OF SIGNAL POLE TO THE EDGE OF PAVED ROAD
- 15'-0" FROM THE NEAR RAIL AT TIP, 25'± FROM THE NEAR RAIL AT BASE, MEASURED PERPENDICULAR TO RAIL FROM CENTER OF SIGNAL POLE TO THE NEAREST EDGE OF RAIL

**SIG #2 LOCATION:**

- 8'-3" FROM THE EDGE OF PAVED ROAD, MEASURED PERPENDICULAR TO ROAD FROM CENTER OF SIGNAL POLE TO THE EDGE OF PAVED ROAD
  - 15'-0" FROM THE NEAR RAIL AT TIP, 25'± FROM THE NEAR RAIL AT BASE, MEASURED PERPENDICULAR TO RAIL FROM CENTER OF SIGNAL POLE TO THE NEAREST EDGE OF RAIL
- GATES ARMS PERPENDICULAR TO ROAD

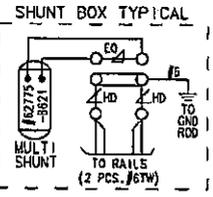
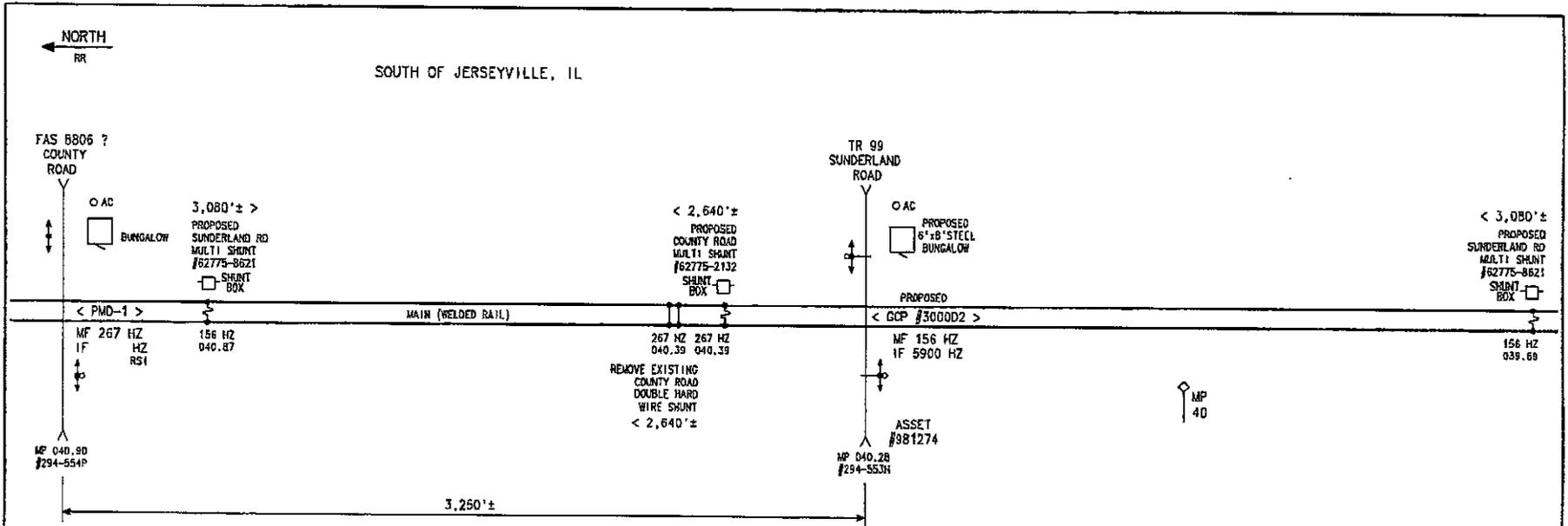


KANSAS CITY SOUTHERN LINES SIGNAL DEPT.  
 DWG. NO. SD-33-4-040.28A  
 LOCATION TR 99 (SUNDERLAND ROAD) SOUTH OF JERSEYVILLE, IL  
 FILE SD-33-5-040.28  
 DGT NO. 294-553H  
 MILE POST 040.28

REVISION BLOCK	REV PER ON-SITE W/BRIAN BROCK & JCK 04/17/02
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ORANGE=OUT  
 BLUE = IN  
 GREEN=NOTE  
 ASSET #981274

EXHIBIT B-4, Page 1.6.



APPROACH LENGTHS ALLOW FOR:

TIME IN SECONDS	CMT / MAIN		CMT / PASS	
	NB. APPR. TRK. 1	SB. APPR. TRK. 1	NB. APPR. TRK. 2	SB. APPR. TRK. 2
STANDARD MIN. TIME CLEARANCE TIME INTERCONNECT TIME	25	25		
MINIMUM WARNING TIME	20	20		
ADJUSTMENT TIME: EQUIPMENT RESPONSE TIME GATES				
MS / CMT RESPONSE TIME	5	5		
BUFFER TIME (OVERSPEED)	5	5		
TOTAL TIME	35	35		
MAX. SPEED (M.P.H.)	60	60		
APPROACH DISTANCE (FEET)	3080'	3080'		
LOCATION AT M.P.	D39.69	040.87		

PROPOSED FOR THE GWRR TO INSTALL NEW FLASHERS AND GATES, AND A NEW 6'x8' STEEL BUNGALOW WITH GCP #3000D2 UNIT (CONSTANT WARNING TIME) SIGNAL PROJECT FUNDING... IDOT (TEA-21) 70% ICC (GCPF) 30%

STATES IDENTIFICATION... STATE PROJECT ENGINEER:  
 PIASA TOWNSHIP \_\_\_\_\_  
 JERSEY COUNTY \_\_\_\_\_  
 SECTION NO. \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_  
 JOB NO. \_\_\_\_\_  
 AAR DOT NO. 294-553H 2 WEEKS NOTICE REQUIRED

SIGNAL FOREMAN TO CALL STATE PROJECT ENGINEER WHEN GANG SHOWS UP AT JOB SITE TO BEGIN WORK

KANSAS CITY SOUTHERN LINES SIGNAL DEPT.  
 DWG. NO. SD-33-4-040.28B  
 LOCATION TR 99 (SUNDERLAND ROAD) SOUTH OF JERSEYVILLE, IL  
 FILE SD-33-5-040.28  
 DOT NO. 294-553H  
 MILE POST 040.28

REVISION BLOCK  
 REV PER ON-SITE W/BRIAN BROCK & JCK 04/17/02

# GRADE CROSSING SURFACE PRELIMINARY ESTIMATE OF COST

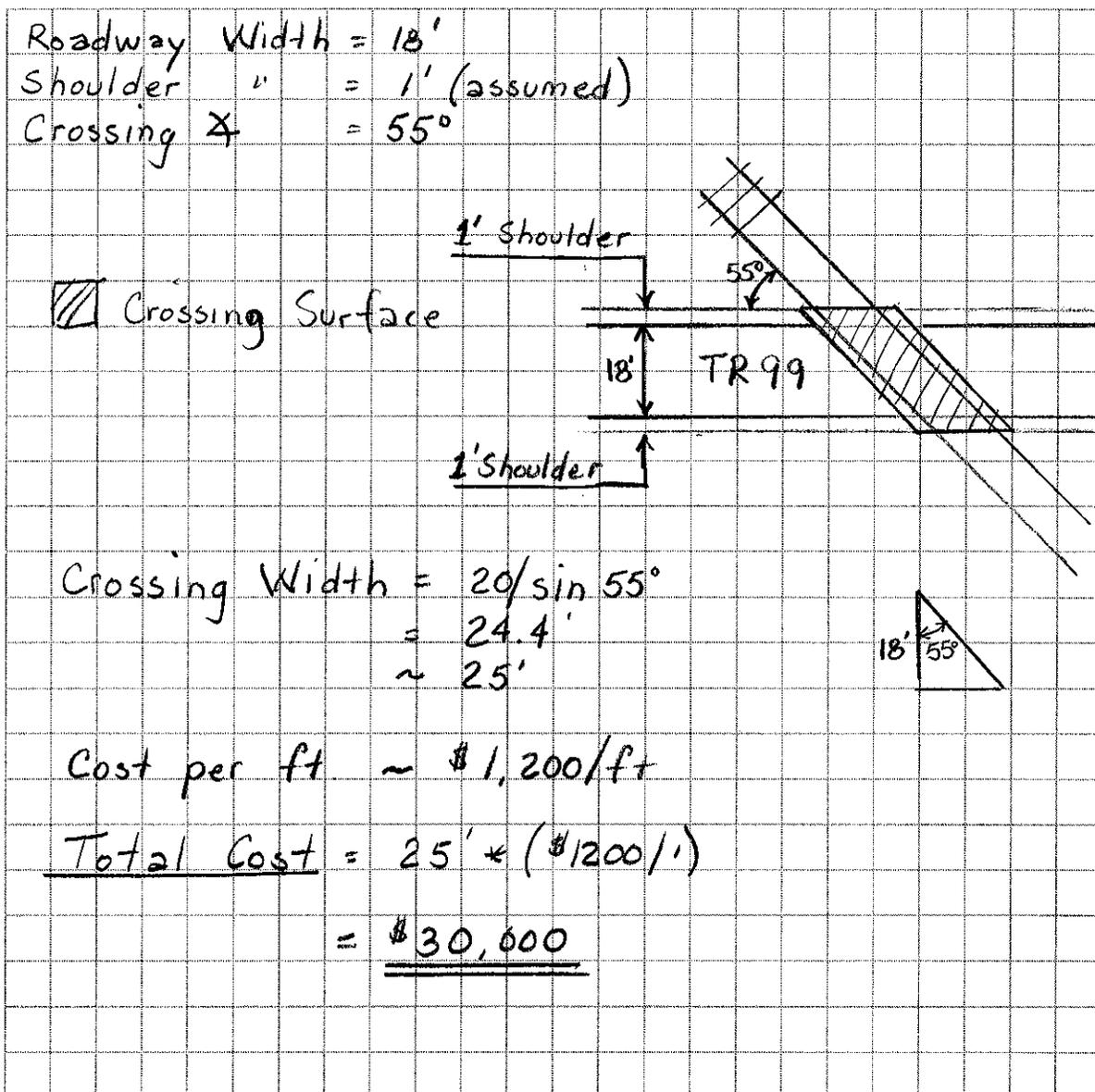


DATE: February 26, 2002

STAFF: Joe Von De Bur

## PROJECT LOCATION:

DOT # 294 553H, Milepost 40.28-AG, Sunderland Road/TR99, near Jerseyville,  
Jersey Township, Jersey County, Illinois



ILLINOIS COMMERCE COMMISSION  
STIPULATED AGREEMENT NO. 988

Date March 21, 2002

The Jersey County Board  
(Board or Council of County)

meeting on March 12, 2002, Resolved to authorize Jim Hill County Eng  
(Name, Office)

to act as its designated agent in the processing of this Stipulated Agreement and that **JERSEY COUNTY** is financially willing and able to bear the cost for the proposed improvements as may be assigned to it according to Section 5 of this Agreement.

ILLINOIS COMMERCE COMMISSION  
STIPULATED AGREEMENT NO. 988

Date March 29-07

The Leon Schetter supervisor  
(Board or Council of Township)

meeting on 29th March Resolved to authorize Jim Hill County  
(Name, Office) Engineer

to act as its designated agent in the processing of this Stipulated Agreement and that **PIASA TOWNSHIP** is financially willing and able to bear the cost for the proposed improvements as may be assigned to it according to Section 5 of this Agreement.