*APPROVED

MAY 03 2005

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS A BASIS FOR PREPARATION OF DETAILED PLANS
* Subject to RR Approval

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130 R-2	DUPAGE,KANE	4	1
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

Benchmark: "D" Cut in SW Corner Concrete Base of Traffic Signal Box in NW Corner IL Rte. 64 & Powis Rd. Elev. 758.46

Existing Structure: Sta. 3357+79.35
FAP 307 (IL Rte. 64) Section 130VB-2-R-L
Built in 1930. Structure No. 022-0059
(Six-span 255'-0" Bk. to Bk. of Abut., 56'-0" O. to O. Deck).

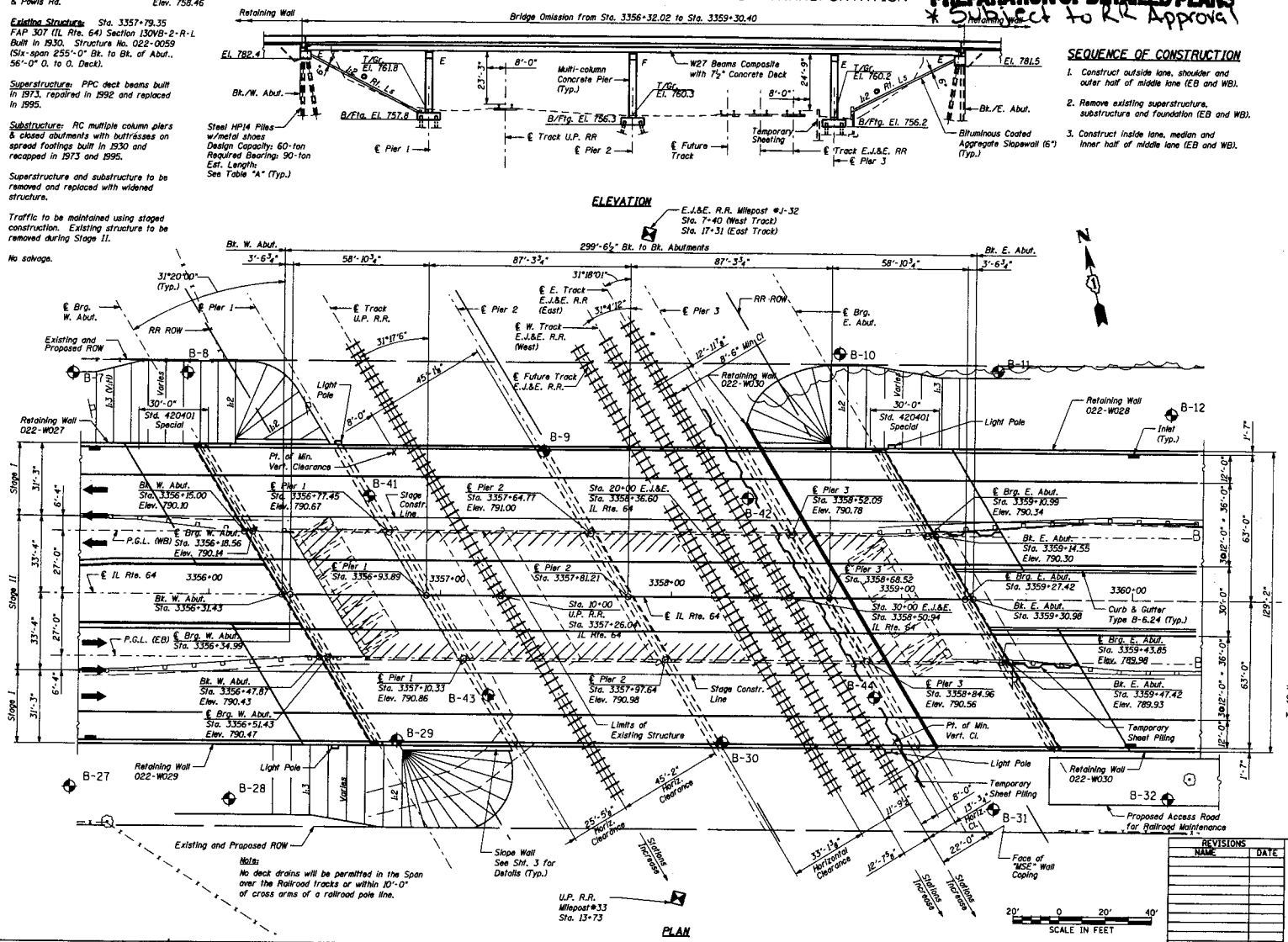
Superstructure: PPC deck beams built in 1973, repaired in 1992 and replaced in 1995.

Substructure: RC multiple column piers & closed abutments with buttresses on spread footings built in 1930 and recapped in 1973 and 1995.

Superstructure and substructure to be removed and replaced with widened structure.

Traffic to be maintained using staged construction. Existing structure to be removed during Stage II.

No salvage.



Note:
No deck drains will be permitted in the Span over the Railroad tracks or within 10'-0" of cross arms of a railroad pole line.

SEQUENCE OF CONSTRUCTION

1. Construct outside lane, shoulder and outer half of middle lane (EB and WB).
2. Remove existing superstructure, substructure and foundation (EB and WB).
3. Construct inside lane, median and inner half of middle lane (EB and WB).

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

LOADING HS20-44

Allow 50 psf for future wearing surface.

SEISMIC DATA

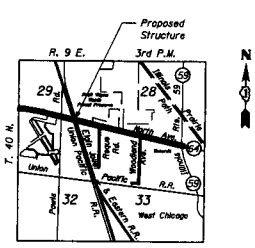
Seismic Performance Category (SPC) = A
Acceleration Coefficient (A) = 0.037g
site Coefficient (S) = 1.0

HIGHWAY CLASSIFICATION:

Class: Principal Arterial
DHV (2020): 1990
ADT (2000): 30,700
ADT (2020): 45,000
ADTT (2000): 3,684
ADTT (2020): 5,400
Design Speed: 50 mph

TABLE "A" Pile Est. Length	
W. Abut.	62
Pier 1	45
Pier 2	45
Pier 3	45
E. Abut.	75

Piles shall be pre-driven and sleeved through MSE wall area.



LOCATION SKETCH
Not to Scale

REVISIONS	
NAME	DATE

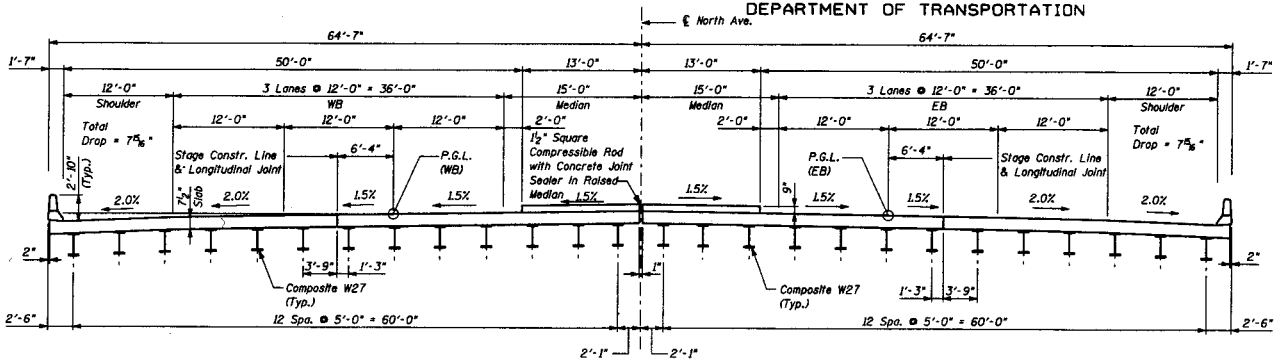
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)

OVER E.J.&E. AND U.P. R.R.
GENERAL PLAN AND ELEVATION
FAP 307 SECTION 130 R-2
DUPAGE COUNTY
STA. 3357+81.21
STRUCTURE NUMBER 022-0190

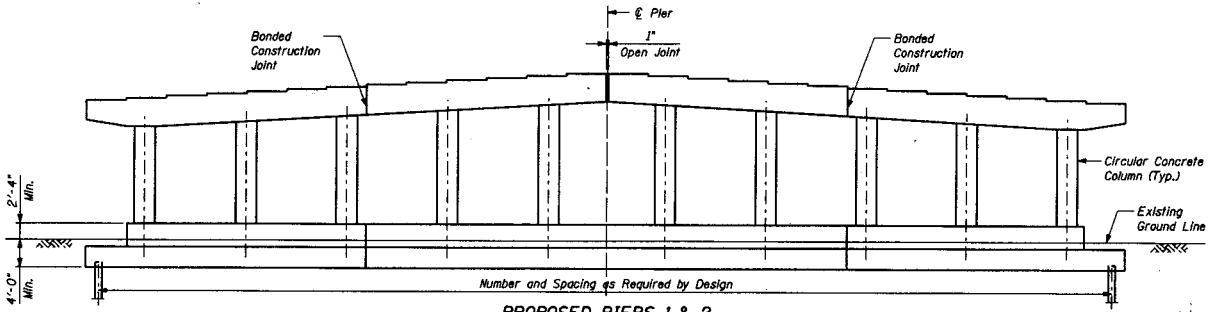
SCALE: None DRAWN BY: CHD
DATE: MAY 28, 2004 CHECKED BY: MJP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

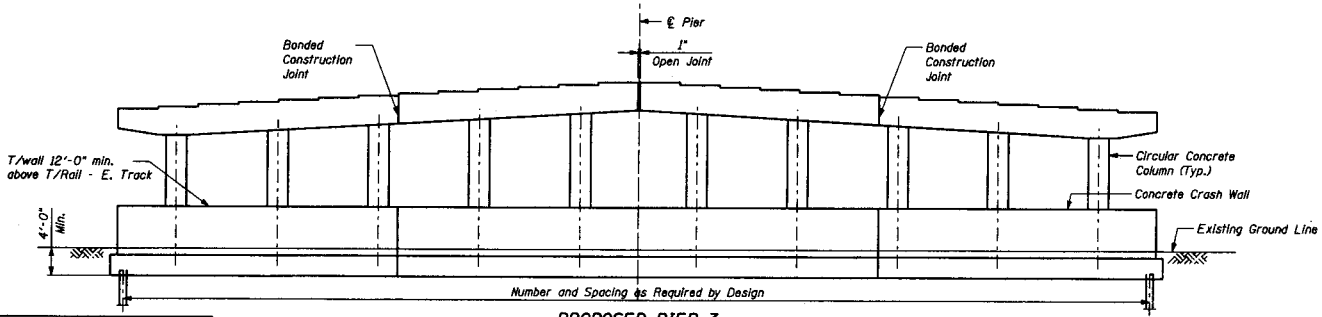
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130 R-2	DUPAGE	4	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



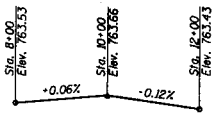
TYPICAL PROPOSED CROSS-SECTION
(Looking East)



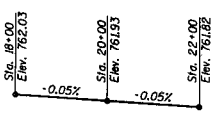
PROPOSED PIERS 1 & 2



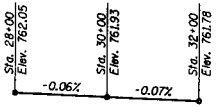
PROPOSED PIER 3



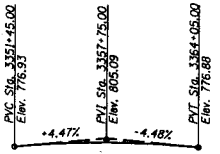
PROFILE GRADE - U.P. TRACK



PROFILE GRADE - E.J.&E. WEST TRACK



PROFILE GRADE - E.J.&E. EAST TRACK



PROFILE GRADE - IL RTE. 64
LVC = 1260'

REVISIONS	
NAME	DATE

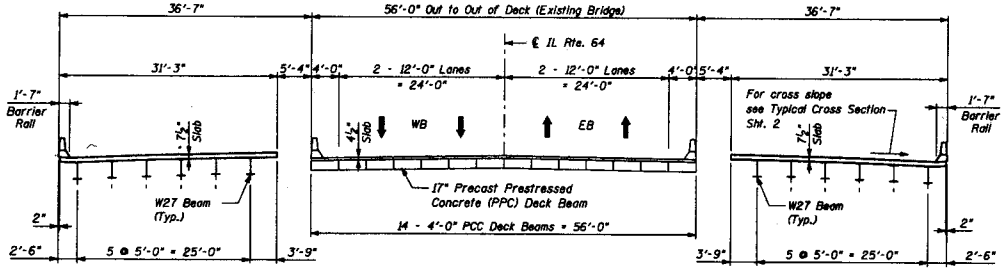
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)

OVER E.J.&E. AND U.P. R.R.
SUBSTRUCTURE DETAILS
FAP 307 SECTION 130 R-2
DUPAGE COUNTY
STA. 3357+81.21
STRUCTURE NUMBER 022-0190

SCALE: None
DATE: MAY 28, 2004
DRAWN BY: CND
CHECKED BY: MJP

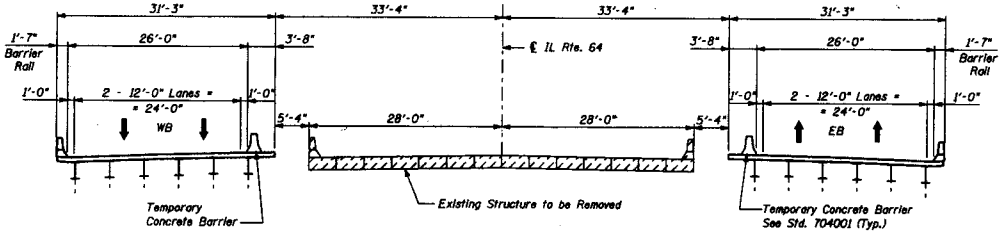
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130 R-2	DUPAGE	4	3
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

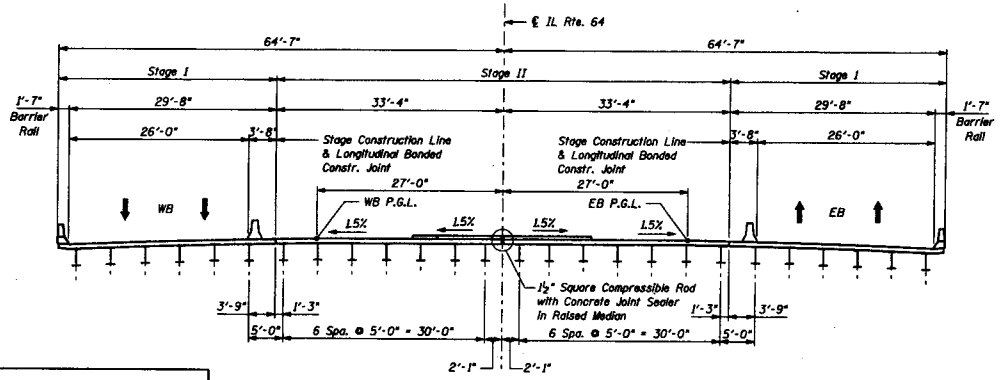


PROPOSED SECTION — EXISTING SECTION — PROPOSED SECTION

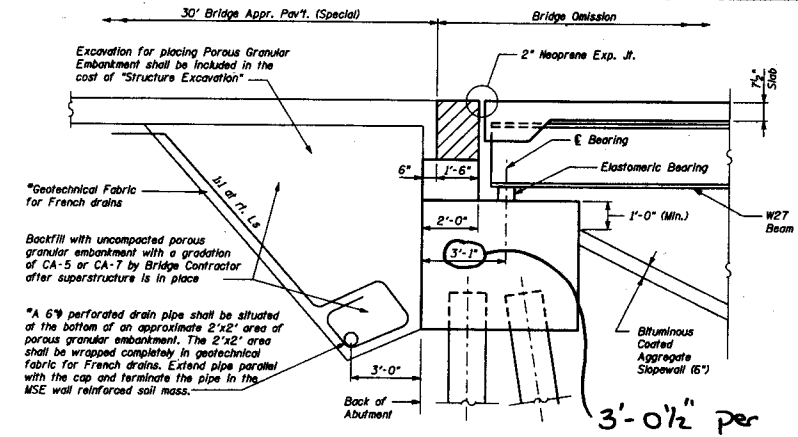
STAGE I CONSTRUCTION
(Looking East)



STAGE II - REMOVAL
(Looking East)

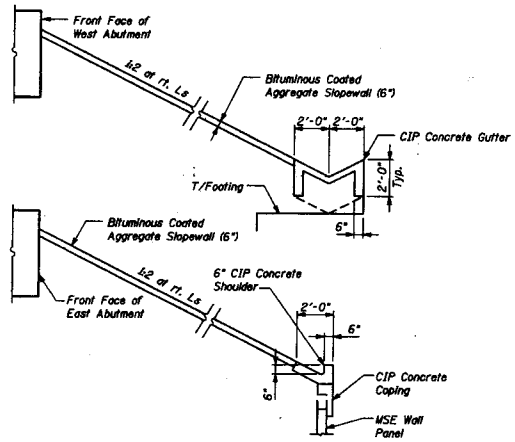


STAGE II - CONSTRUCTION
(Looking East)



* Included in the cost of "Porous Granular Embankment"

SECTION THRU ABUTMENT
Dimensions shown at rt. Ls



TYPICAL SECTIONS THRU SLOPEWALL

REVISIONS NAME	DATE

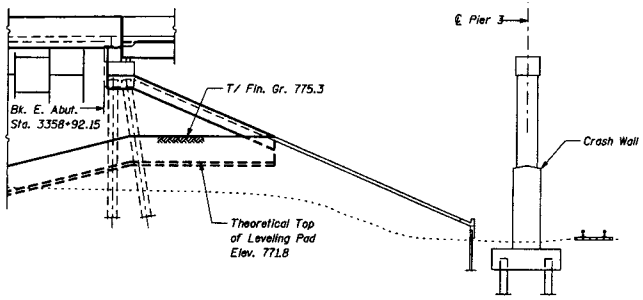
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)

OVER E.J.&E. AND U.P. R.R.
CONSTRUCTION STAGING AND DETAILS
FAP 307 SECTION 130 R-2
DUPAGE COUNTY
STA. 3357+81.21
STRUCTURE NUMBER 022-0190

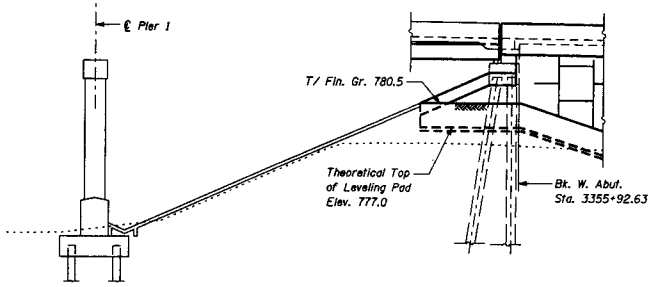
SCALE: None — DRAWN BY: CHB
DATE: MAY 28, 2004 — CHECKED BY: MJP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

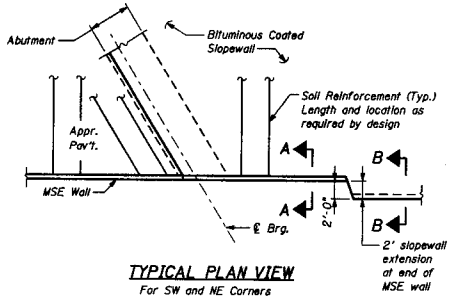
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130 R-2	DUPAGE	4	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



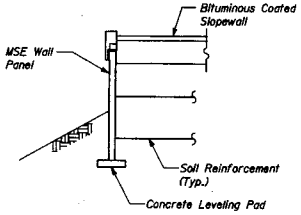
NE CORNER
ELEVATION
Str. 022-W028
(Looking South)



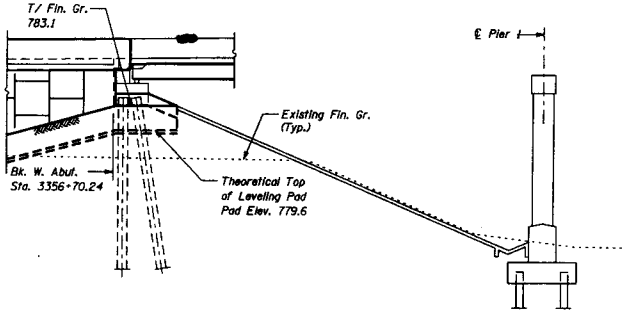
NW CORNER
ELEVATION
Str. 022-W027
(Looking South)



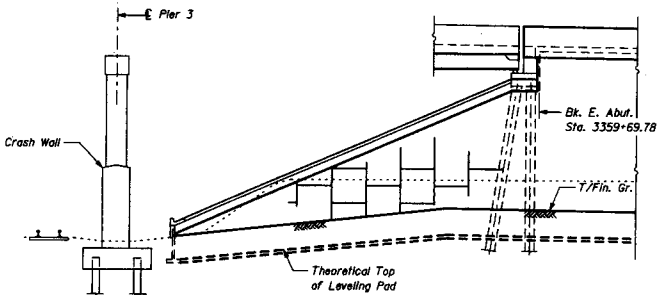
TYPICAL PLAN VIEW
For SW and NE Corners
SE and NW Corners Similar



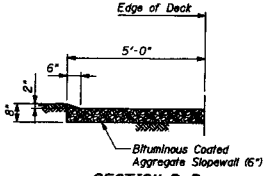
SECTION A-A



SW CORNER
ELEVATION
Str. 022-W029
(Looking North)



SE CORNER
ELEVATION
Str. 022-W030
(Looking North)



SECTION B-B

Note: Back of Abutment Stations are measured to an offset = 63'-9" (the assumed back face of the MSE wall panels)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)

OVER C.,L&E. AND U.P. R.R.
RETAINING WALLS
FAP 307 SECTION 130 R-2
DUPAGE COUNTY
STA. 3357+81.21
STRUCTURE NUMBER 022-0190

SCALE: None DRAWN BY: CHD
DATE: MAY 28, 2004 CHECKED BY: MJP