

3.975% \ominus -3.500%

PI STA 536+00.00 VC = 1000'

PI ELEV 945.15

PROPOSED PROFILE GRADE ON IA 146

PROFILE GRADE LINE (PGL) IS AT CL OF LANES.
TOP OF BRIDGE DECK AT CL ROADWAY IS 0.03' BELOW THE PROFILE GRADE TO ACCOUNT FOR PARABOLIC CROWN.

TRAFFIC ESTIMATE

2013 AADT _____ 2057 V.P.D.
20?? AADT _____ ? V.P.D.
20?? DHV _____ - V.P.H
TRUCKS _____ 12 %
TOTAL DESIGN ESAL's _____

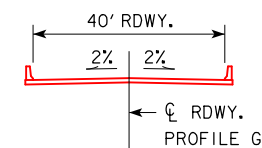
BERM SLOPE LOCATION TABLE

	SOUTH ABUTMENT			NORTH ABUTMENT		
	STATION	OFFSET	ELEV	STATION	OFFSET	ELEV
A1	535+81.35	-24.58	905.27	536+88.45	-24.58	905.05
A2	535+55.37	24.58	899.10	536+41.53	24.58	902.66
A3	535+17.67	74.87	899.05	537+22.02	-65.06	903.60
B1	534+99.00	-24.58	928.37	537+70.25	-24.58	928.79
B2	534+57.75	24.58	928.37	537+29.00	24.58	928.79
W1	534+75.78	-24.58	934.38	537+85.78	-24.58	934.41
W2	534+42.22	24.58	933.95	537+52.22	24.58	934.75

ALL POINTS REFLECT GRADING SURFACE & ARE TAKEN FROM SURVEY CL

UTILITIES LEGEND:

FO SPRINT
EI ITC/ALLIANT
TI WINDSTREAM
W POWESHIEK RURAL WATER
SAN CITY OF LE GRAND



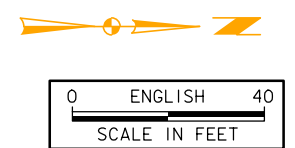
TYPICAL BRIDGE SECTION

MINIMUM VERTICAL CLEARANCE

OVERHEAD STATION=535+36.96, 20' RT.
CALCULATED OVERHEAD PGL ELEVATION=935.51
DEPTH OF SUPERSTRUCTURE=4.99
UNDERPASS STATION=535+36.96, 20' RT.
UNDERPASS ELEVATION=906.58
MINIMUM VERTICAL CLEARANCE=23.94

LOCATION

IA 146 OVER UPRR
T-83N R-17W
SECTION 13/14
LEGRAND TOWNSHIP
MARSHALL COUNTY
FHWA NO. 607300
FRA NO. 190613A, IA RR NO. 895
LATITUDE 42.003744° N
LONGITUDE 92.785126° W



PRELIMINARY

DESIGN FOR 40° SKEW LA

283'-0 X 40' PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE

76'-0 & 81'-0 END SPANS 126'-0 CENTER SPAN

SITUATION PLAN

STATION: 536+14.00 BTC BM

MARSHALL COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
DESIGN SHEET NO. 1 OF 1 FILE NO. 27772 DESIGN NO. 118

