

TIME : \$@TIME@\$  
 PLOTTED : \$\$\$@DATE@\$\$\$  
 PATH & FILENAME: \$\$\$@PATHFILENAME@\$\$\$  
 FILENAME: \$\$\$@FILENAME@\$\$\$

**DESIGNER NOTE**  
 (REMOVE PRIOR TO PLOTTING FINAL PLAN):  
 USE ON ALL PRECAST BOX CULVERT PROJECTS.  
 INSERT APPROPRIATE VALUES FOR ESTIMATED MIN.  
 AND MAX. FILL DEPTHS, ALSO SHOW (A) AND (B) IN THE  
 BOX CULVERT ELEVATION VIEW TO DEPICT THE MIN.  
 AND MAX. FILL HEIGHTS WITHIN THE ROADWAY, INCLUDING  
 SHOULDERS.

**DESIGNER NOTE**  
 (REMOVE PRIOR TO PLOTTING FINAL PLAN):  
 USE ON ALL PRECAST CONCRETE BOX CULVERT PROJECTS  
 WHERE THE BOX CULVERT HAS BEEN ASSIGNED A BRIDGE  
 NUMBER. FOR STANDARD DESIGNS, INSERT 1.3 RATING  
 FACTOR. FOR NON-STANDARD DESIGNS, INSERT CALCULATED  
 RATING FACTOR.

**DESIGN DATA**  
 DESIGNED IN ACCORDANCE WITH 2014 AASHTO LRFD  
 BRIDGE DESIGN SPECIFICATIONS.

HL-93 LIVE LOAD  
 BARREL INSIDE WIDTH =  
 BARREL INSIDE HEIGHT =  
 BARREL LENGTH =  
 EST. MIN. FILL DEPTH (A) =  
 EST. MAX. FILL DEPTH (B) =  
 SKEW ANGLE =

DESIGN SPEED =  
 CURRENT ADT (YEAR) =  
 PROJECTED ADT (YEAR) =

HL-93 LRFR  
 BRIDGE OPERATING RATING FACTOR RF = \_ \_

**LIST OF SHEETS**

NO.	DESCRIPTION
1	GENERAL PLAN AND ELEVATION
2	PRECAST CONCRETE BARREL DETAILS

**DESIGNER NOTE**  
 (REMOVE PRIOR TO PLOTTING FINAL PLAN):  
 USE ONLINE LOCAL SYSTEM BRIDGE NUMBER REQUEST FROM  
[WWW.DOT.STATE.MN.US/BRIDGE/NEW-BRIDGE-NUMBER-REQUEST-LOCAL.HTML](http://WWW.DOT.STATE.MN.US/BRIDGE/NEW-BRIDGE-NUMBER-REQUEST-LOCAL.HTML)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY  
 ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM  
 A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE  
 LAWS OF THE STATE OF MINNESOTA.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 LICENSED PROFESSIONAL ENGINEER

NAME: \_\_\_\_\_ LIC NO. \_\_\_\_\_

**CONSTRUCTION NOTES:**

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF  
 TRANSPORTATION "STANDARD SPECIFICATIONS FOR  
 CONSTRUCTION" SHALL GOVERN.

ALL EXPOSED CONCRETE EDGES SHALL BE FORMED WITH  
 A 1/2" OR 3/4" CHAMFER UNLESS OTHERWISE NOTED.

CONSTRUCTION SHALL BE IN ACCORDANCE WITH  
 SPEC. 2411 AND 2412, EXCEPT AS NOTED.

REFER TO REMAINDER OF GRADING PLAN FOR  
 SUPERSTRUCTURE EXCAVATION AND BACKFILL.  
 SPEC. 2451.

THE BAR SIZES SHOWN IN THIS PLAN ARE IN U.S. CUSTOMARY  
 DESIGNATIONS.

REFER TO TITLE SHEET FOR THE SUBSURFACE UTILITY  
 INFORMATION.

**BRIDGE NO. \_\_\_\_**

LOCATION: \_\_\_\_

MAIN \_\_\_\_ x \_\_\_\_ MNDOT STD. PRECAST  
 CONCRETE CULVERT

IDENTIFICATION NO. 513

**GENERAL PLAN AND ELEVATION**

SEC. \_ T \_ N R \_ W  
 \_\_\_\_ TOWNSHIP \_\_\_\_ COUNTY

DES:	DR:
CHK:	CHK: