



Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

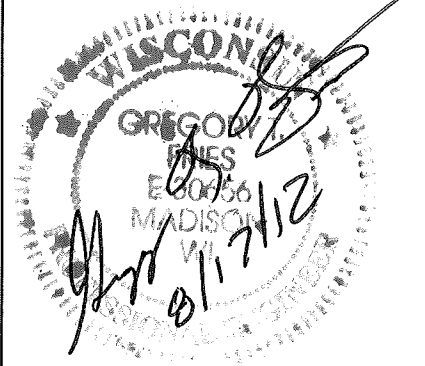
### PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED  
AUGUST 7, 2012  
BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 8/17/12  
FOR City Engineer Date

DESIGNED BY:



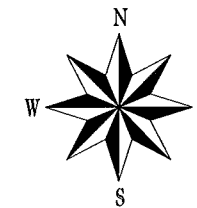
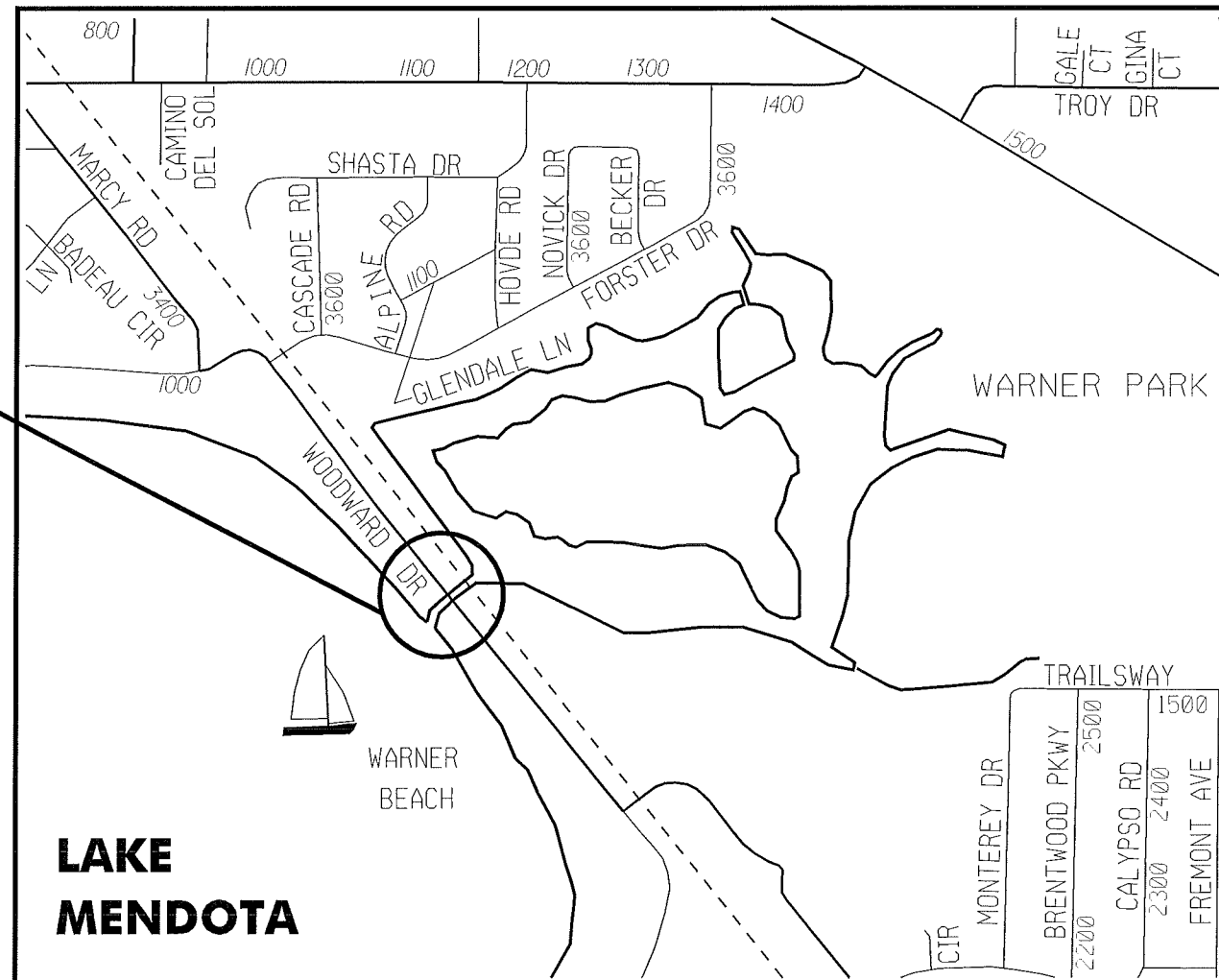
#### INDEX OF SHEETS

SHEET NO.	1	TITLE
SHEET NO.	D-1	DETAIL
SHEET NO.	U-1	UTILITY PLAN AND PROFILE

## WARNER LAGOON OUTLET CULVERT REPAIR

CITY PROJECT NO. 53W1065  
CONTRACT NO. 6942

**PROJECT  
LOCATION**



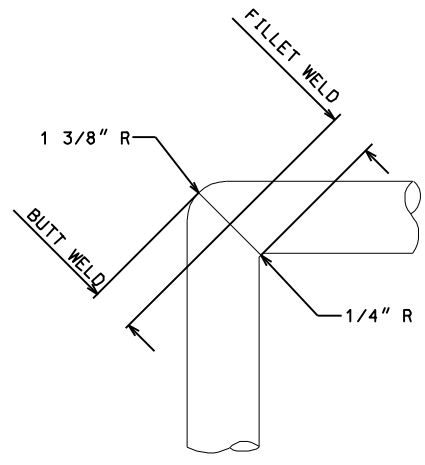
PLOT SCALE:

PLOT NAME:

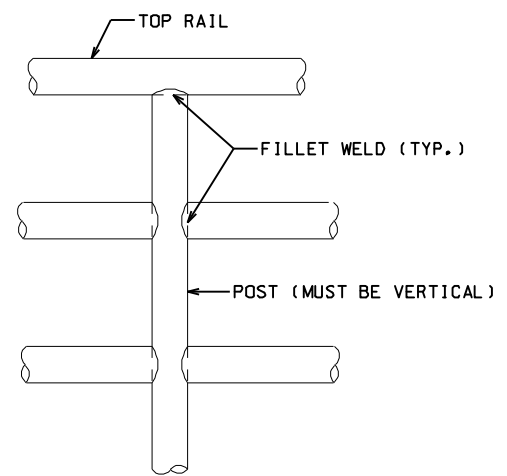
REV. DATE:

ORIGINATOR:

RAILING STATIONING  
 BEGIN RAILING S+0 12+01 L+ 17.25'  
 END RAILING S+0 12+03 R+ 16.75'



DETAIL A



DETAIL B

GENERAL NOTES - RAILING

ALL MATERIALS USED IN THE FABRICATION OF PIPE RAILING SHALL CONFORM TO SECTION 513 OF THE STANDARD SPECIFICATIONS.

SLIDING EXPANSION JOINT IN RAIL SEGMENT SHALL BE USED ONLY WHEN AND WHERE APPROVED BY THE ENGINEER.

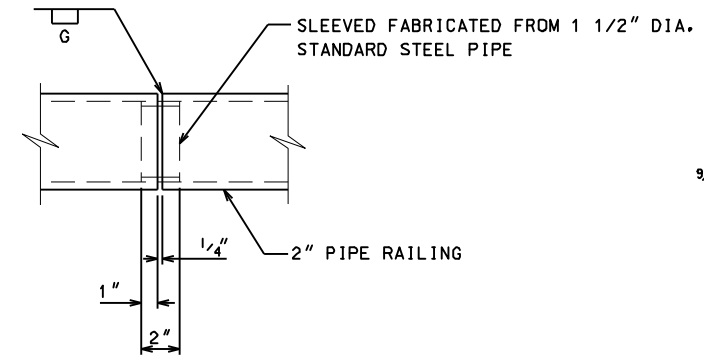
ALL MATERIAL EXCEPT ANCHORAGE BOLTS SHALL BE PAINTED WITH A THREE-COAT ZINC RICH EPOXY SYSTEM. PRIOR TO PAINTING, ALL STEEL RAILING POST AND STEEL TUBING SHALL BE GIVEN A NO. 10 NEAR WHITE BLAST CLEANING BY S.S.P.C. SPECIFICATIONS

THE COLOR OF THE FINISH TOP COAT SHALL BE BLACK

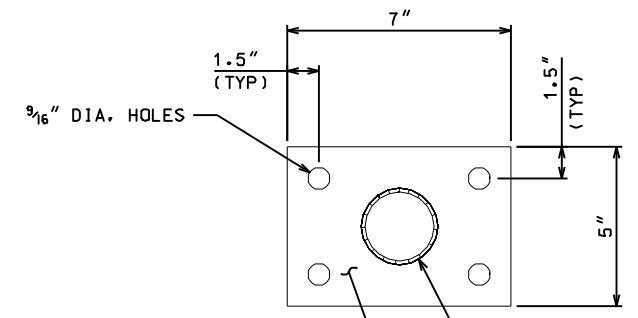
VERTICAL MEMBERS SHALL BE PLUMB.  
 HORIZONTAL MEMBERS SHALL PARALLEL GRADE.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

CONCRETE MASONRY ANCHORS, GROUT, SHIMS, FOOTINGS, AND PAINTING SHALL BE INCLUDED IN THE BID ITEM "RAILING."

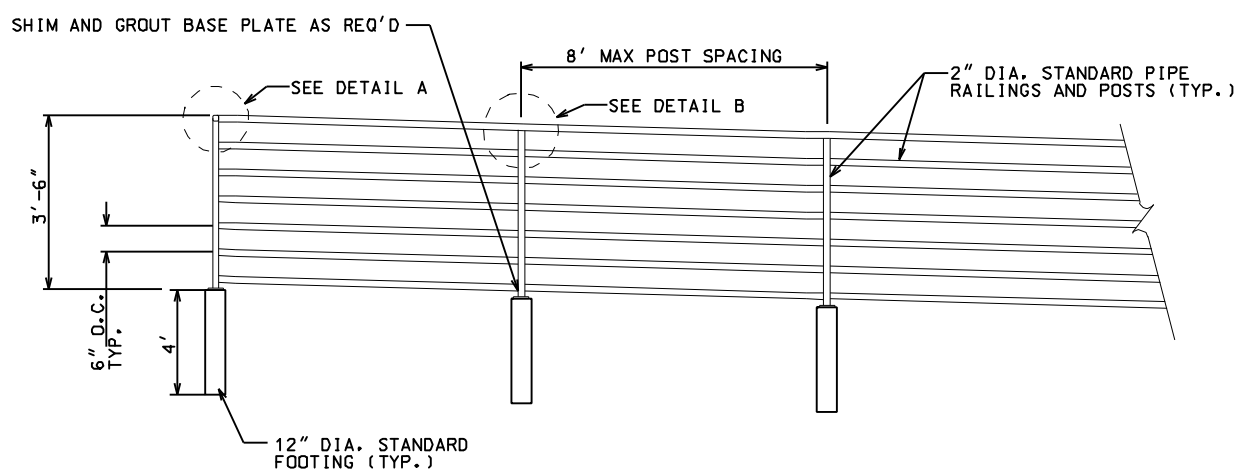


SHOP RAIL SPLICE DETAIL

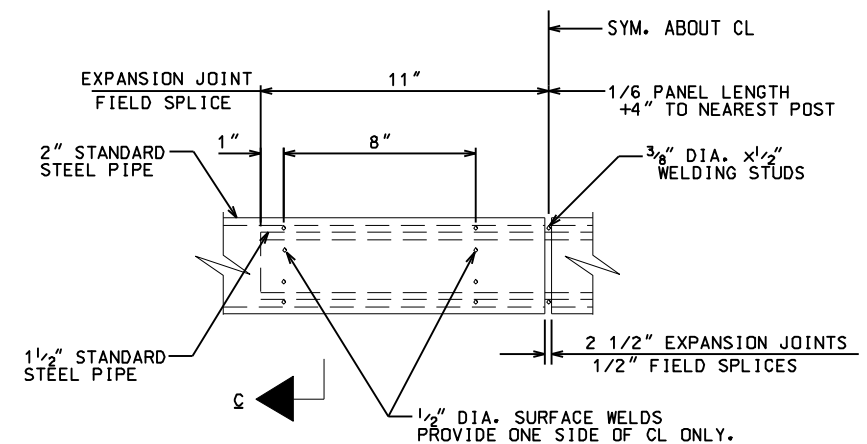


BASE PLATE 1/2" x 5" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 3/16" HOLES FOR 1/2" DIA HEX BOLTS NO. 6. WELD TO RAIL POST AS SHOWN. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

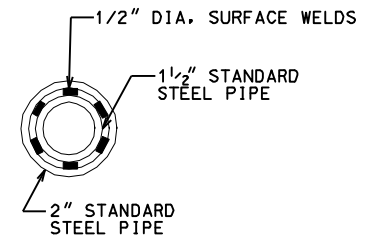
RAIL BASE PLATE DETAIL



PIPE RAIL DETAIL



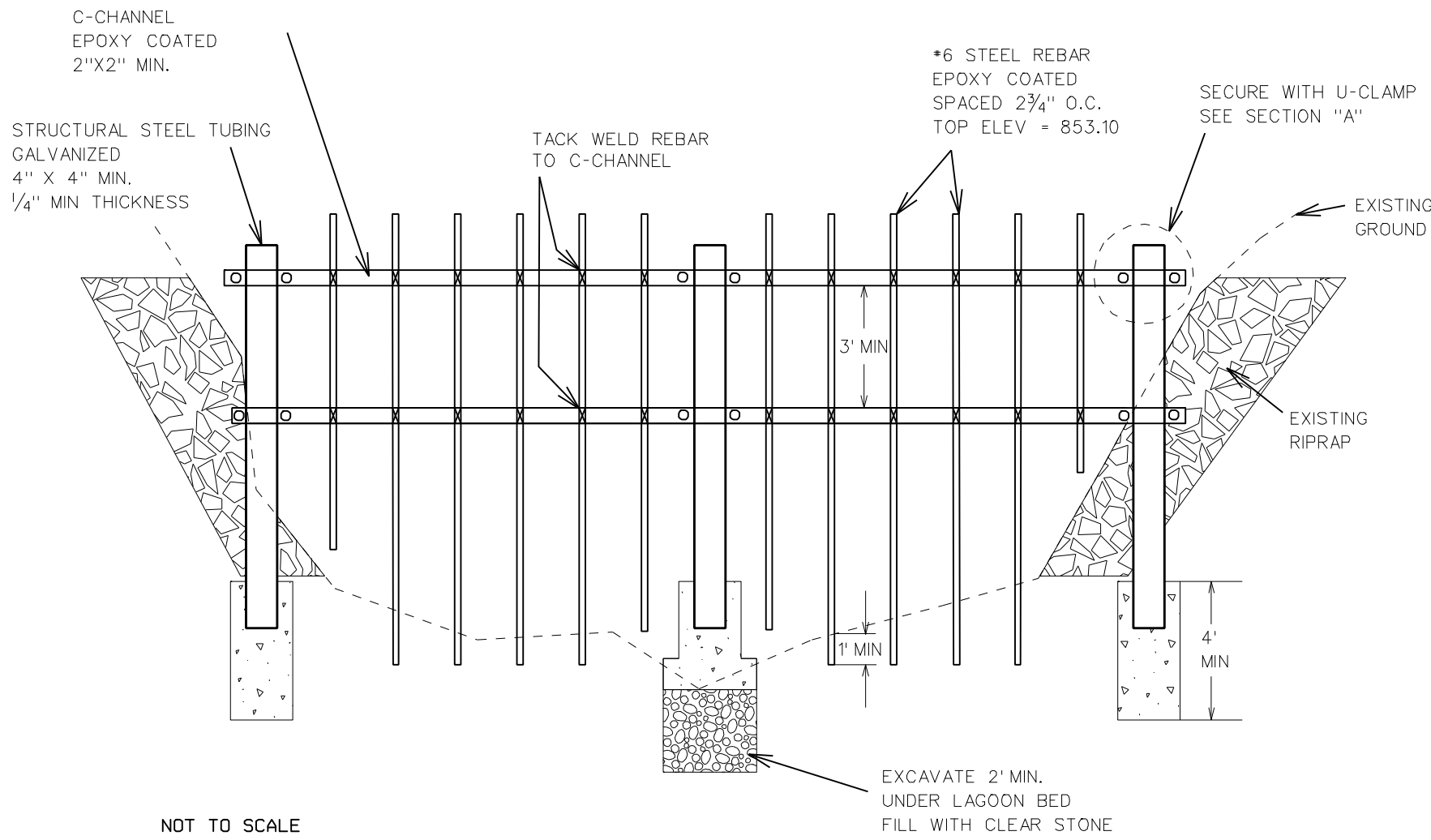
EXPANSION JOINT AND FIELD SPLICE JOINT DETAIL



SECTION C

PLOT SCALE: PLOT NAME: REV. DATE:

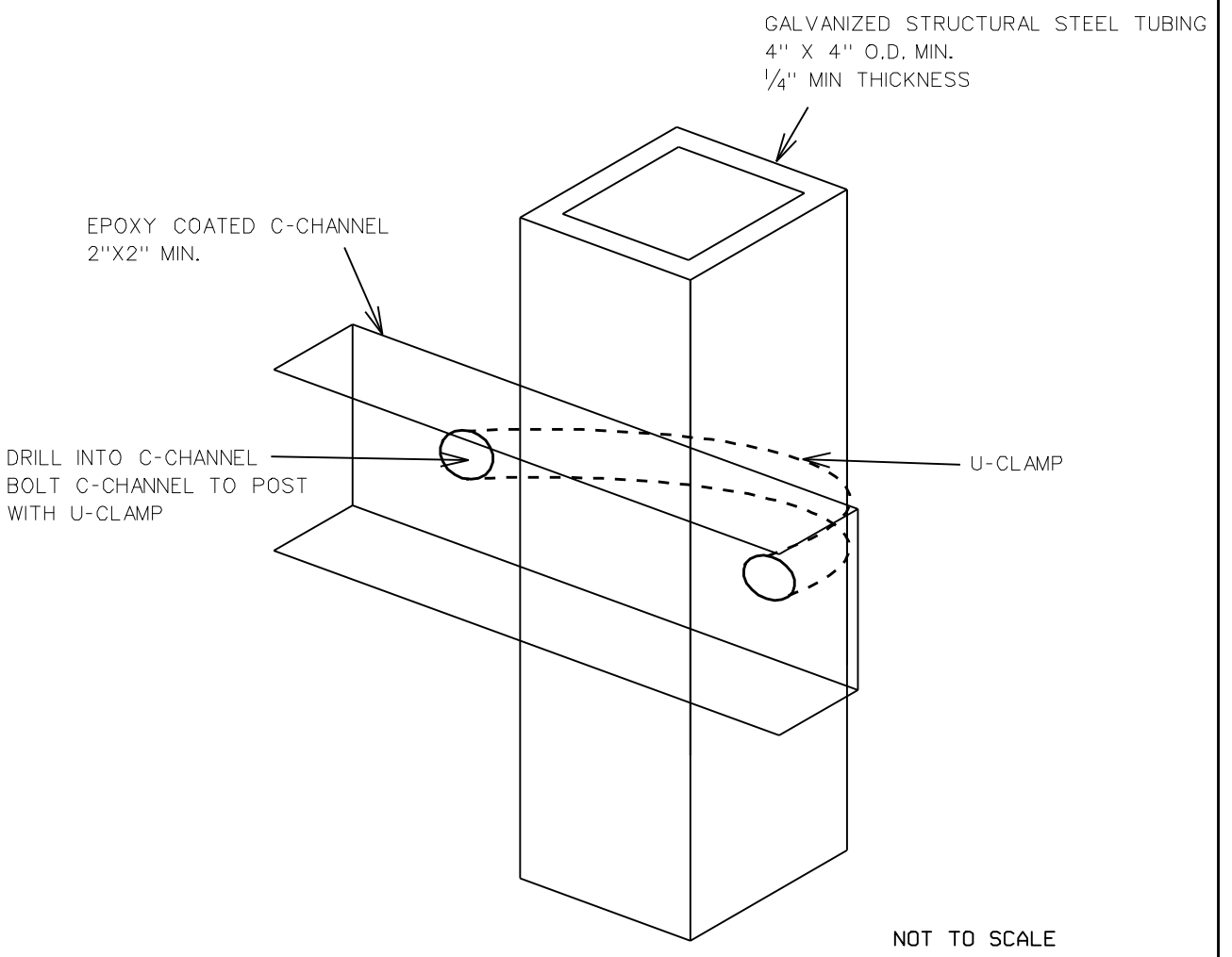
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CARP BARRIER DETAIL

NOTES

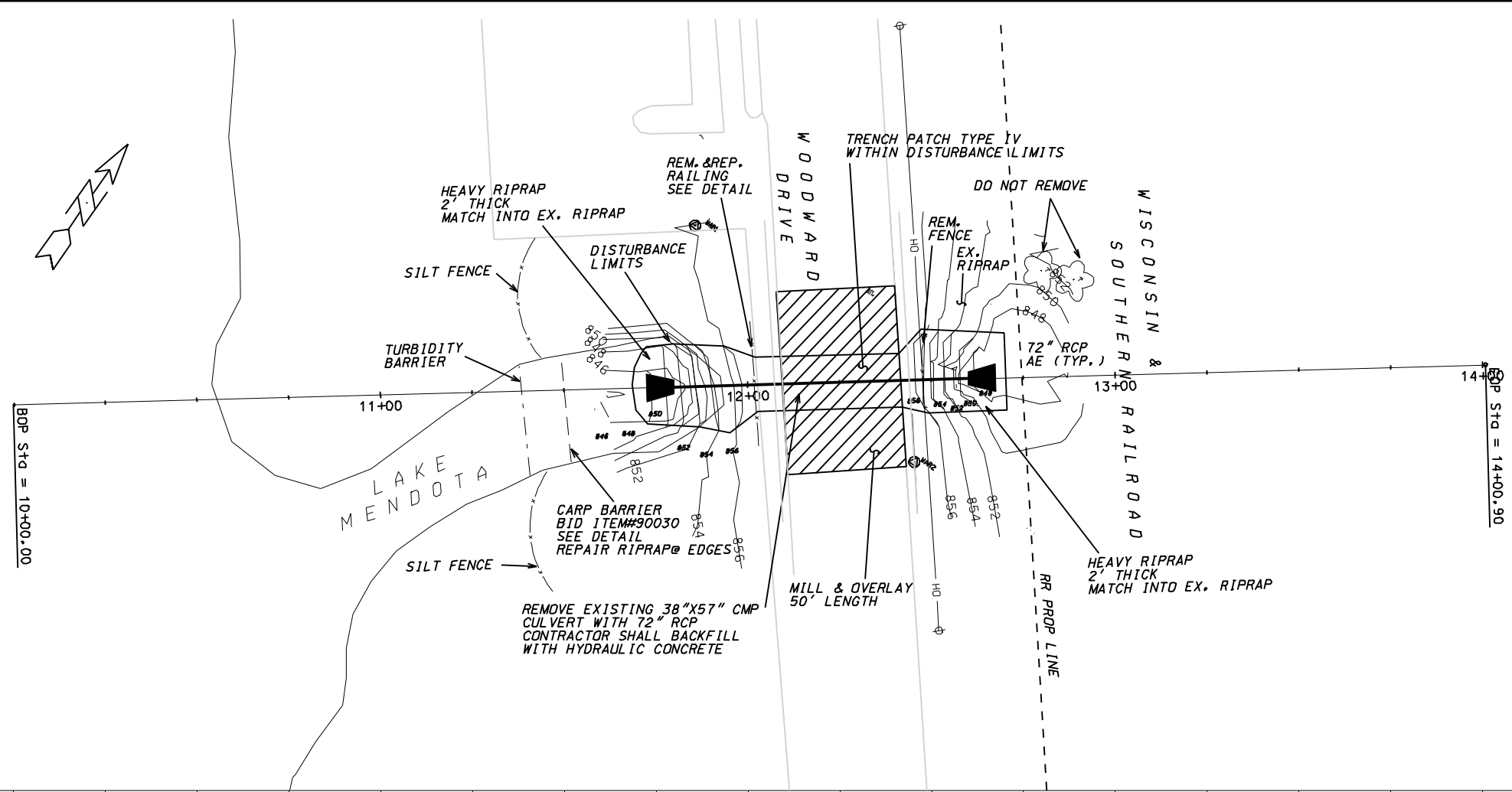
1. CARP BARRIER SHALL INCLUDE 2 STEEL TUBING MEMBERS AT EITHER END OF THE LAGOON AND 1 IN THE MIDDLE
2. STEEL TUBING INSTALLED ON FOOTINGS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVED OR CORED HOLE BY FILLING ANNULAR SPACE WITH CONCRETE.
3. CONCRETE FOOTINGS SHALL BE INSTALLED A MINIMUM OF 4 FEET BELOW THE BED SURFACE
4. VERTICAL REBAR LOCATED NEAR THE FOOTING PAD OF THE CENTER TUBING MEMBER SHALL BE CUT AWAY AND NOT ALLOW MORE THAN 2" OF SPACING BETWEEN THE REBAR AND THE FOOTING PAD.
5. CONCRETE FOOTING PAD SHALL BE A MINIMUM OF 2' X 2' AND 8" THICK.
6. STEEL REBAR SHALL BE DRIVEN INTO THE LAGOON BED A MINIMUM OF 1', WHEN APPLICABLE
7. REBAR AND C-CHANNEL SHALL BE PAINTED WITH A THREE-COAT ZINC RICH EPOXY SYSTEM. PRIOR TO PAINTING, REBAR AND C-CHANNEL SHALL BE GIVEN A NO. 10 NEAR WHITE BLAST CLEANING BY S.S.P.C. SPECIFICATIONS
8. VERTICAL MEMBERS SHALL BE PLUMB HORIZONTAL MEMBERS SHALL BE LEVEL



SECTION A

PLOT SCALE: \_\_\_\_\_  
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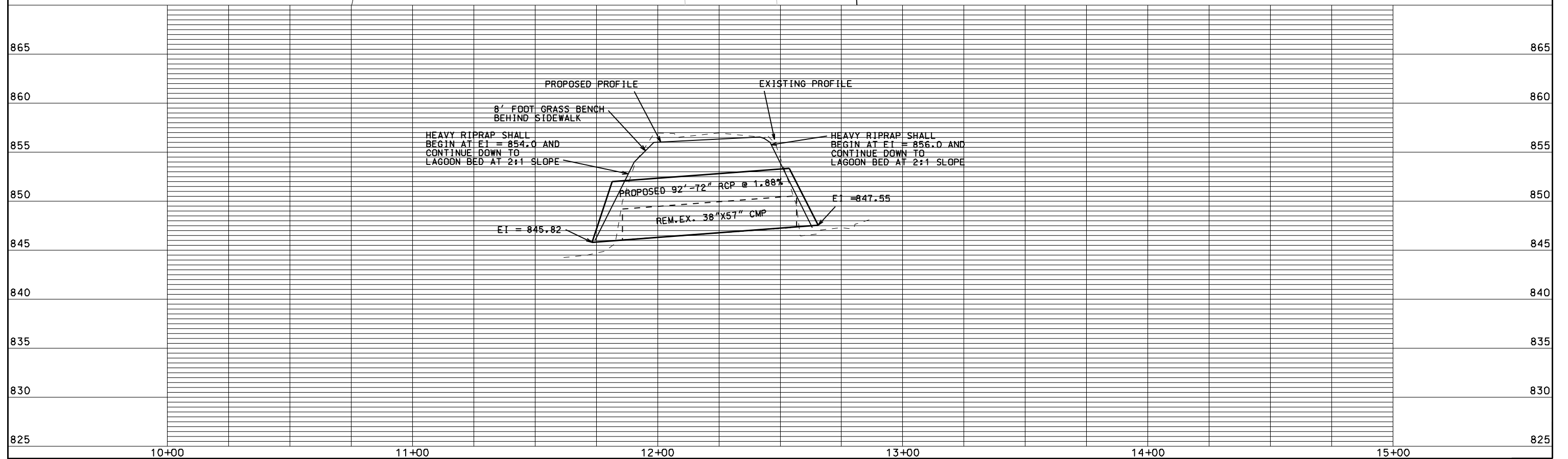
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- NOTES:**
1. DO NOT DISTURB ON RAILROAD PROPERTY
  2. BRUSH CLEARING ON NORTHEAST SIDE OF WOODWARD DRIVE INCIDENTAL TO MOBILIZATION
  3. REMOVE AND REPLACE CURB AND GUTTER AS DETERMINED BY THE CONSTRUCTION ENGINEER
  4. RESTORE DISTURBED AREAS WITH POLYMER, EROSION MAT, AND SEED
  5. REMOVE TEMP CONSTRUCTION FENCE ON NORTHEAST SIDE INCIDENTAL TO MOBILIZATION (DIFFERENT THAN REMOVAL OF CHAIN LINK FENCE IN SAME LOCATION)
  6. REMOVE AND REPLACE SIDEWALK ON SOUTHWEST SIDE (5 SQUARES MAX)
  7. REMOVE AND REPLACE RAILING ON SOUTHWEST SIDE SEE DETAIL AND BID ITEM # 90000
  8. CONTRACTOR MAY REUSE EXISTING RIPRAP

PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_



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