

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

FEBRUARY 4, 2014

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

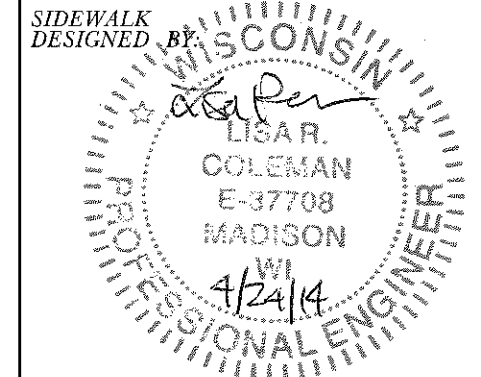
Michael R. Daley 4/25/14
 For City Engineer Date

INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SIDEWALK SECTIONS
D1	RETAINING WALL DETAILS
R1-R2	PACKERS AVE. SIDEWALK PLAN AND PROFILE
P1	CROSS SECTIONS

PACKERS AVENUE SIDEWALK AT LAKELAND COLLEGE ASSESSMENT DISTRICT - 2014

CITY PROJECT NO. 53WI730
 CONTRACT NO. 7235



RAILING DESIGNED BY:

SEE SHEET R-2

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

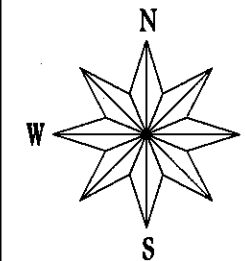
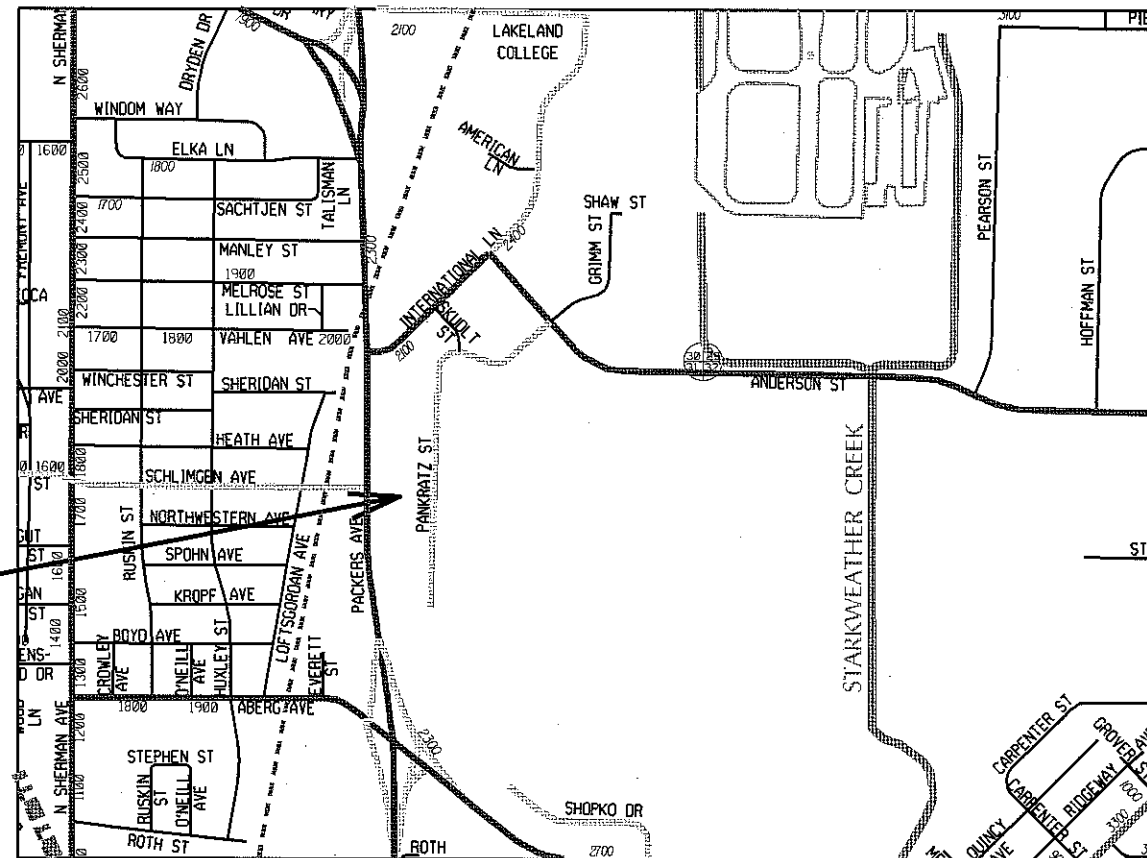
CONSTRUCTION PROJECT LOCATION

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%.

SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.



PLOT SCALE:

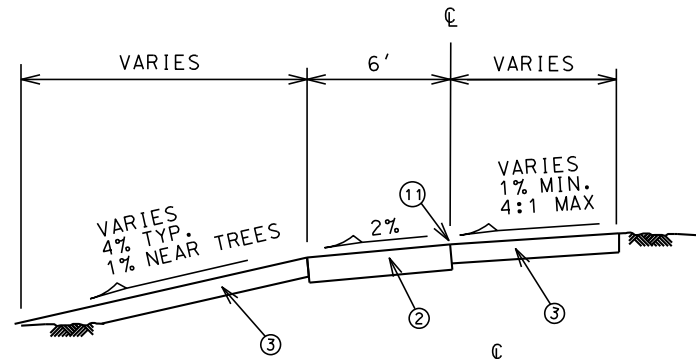
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

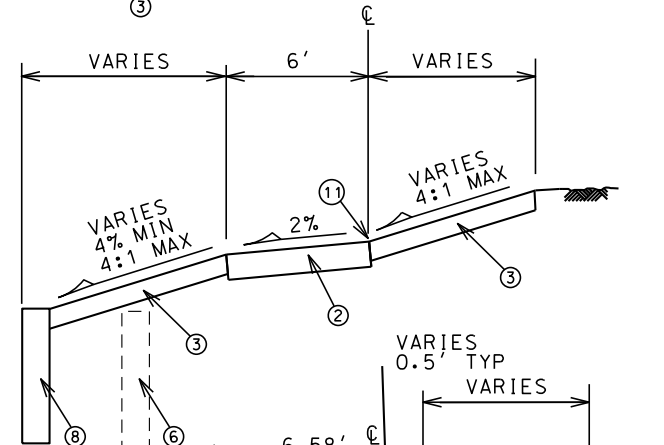
TYPICAL SIDEWALK SECTION

FROM STA 6+00 TO STA 6+81.16
NOT TO SCALE



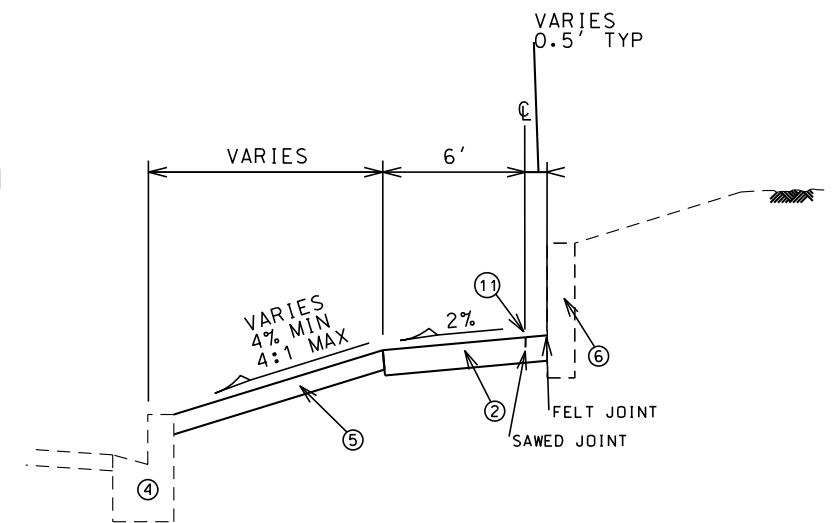
TYPICAL SIDEWALK SECTION

FROM STA 6+81.16 TO STA 7+25.03
NOT TO SCALE



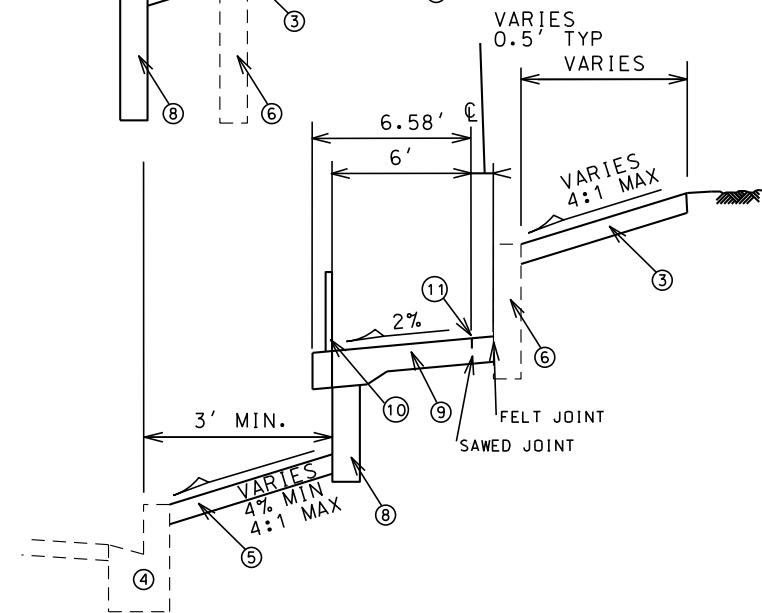
TYPICAL SIDEWALK SECTION

FROM STA 8+25 TO STA 8+39.11
NOT TO SCALE

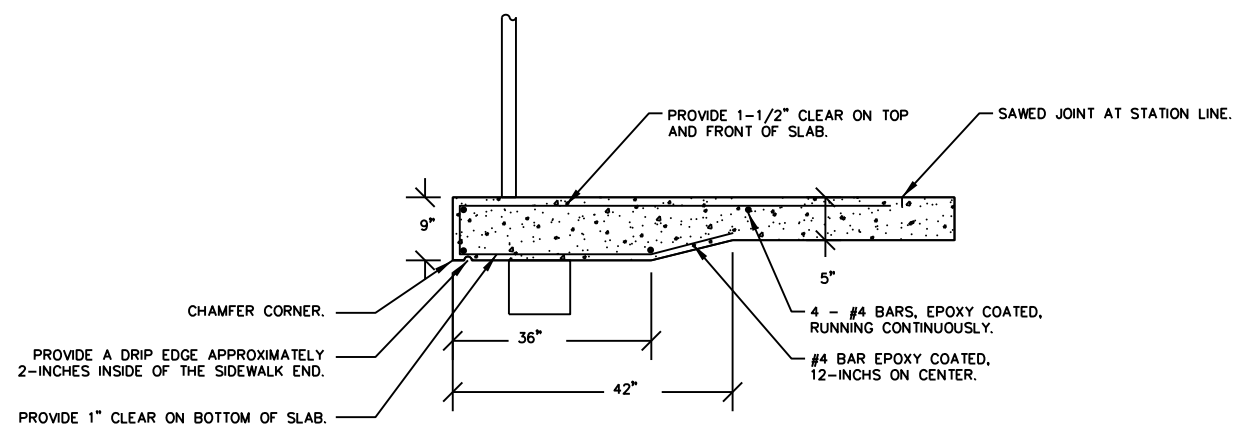
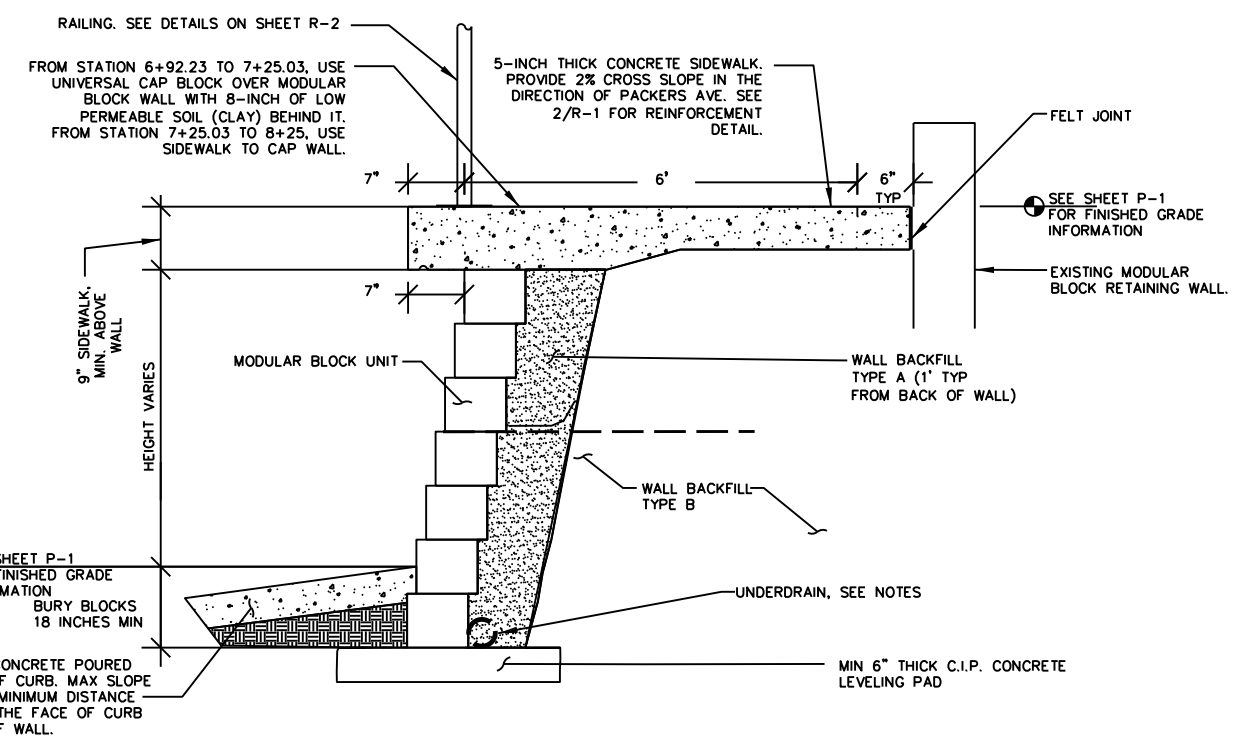
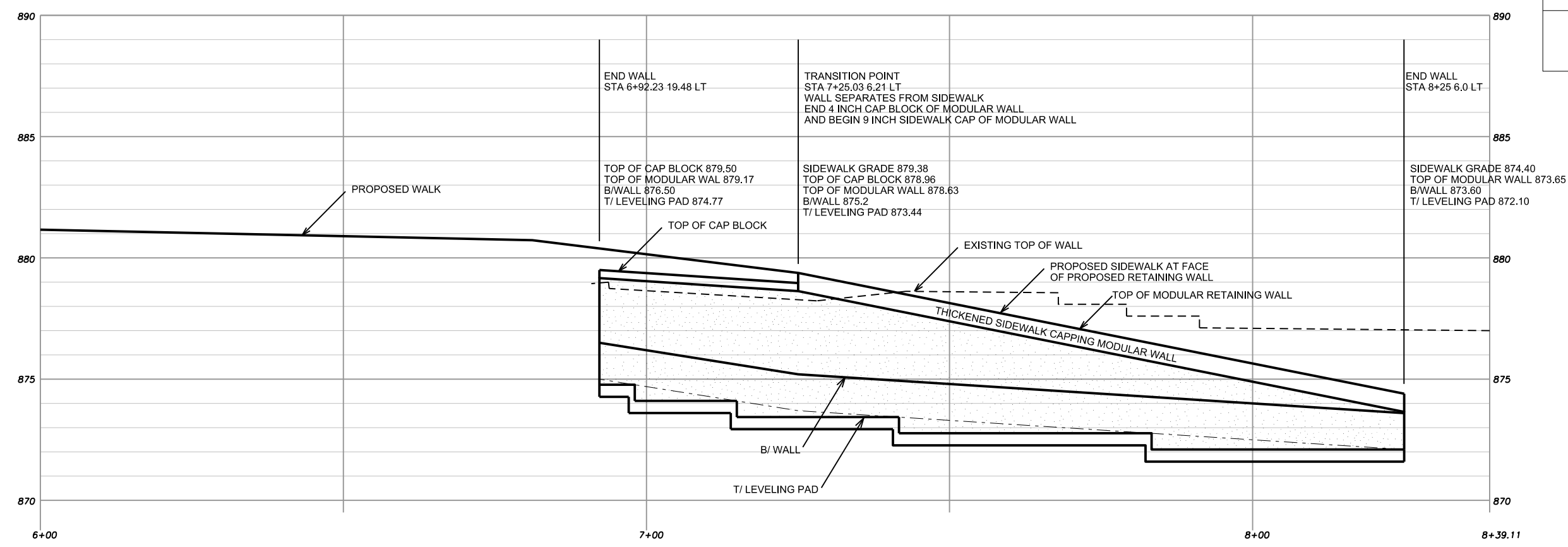


TYPICAL SIDEWALK SECTION

FROM STA 7+25.03 TO STA 8+25
NOT TO SCALE



- ① (THIS NUMBER NOT USED)
- ② 5" CONCRETE SIDEWALK (NOTE: INCLUDES 9" THICKENED EDGE AND RAILING FROM STA 7+15.03 TO 7+25.03)
- ③ 4" TOPSOIL, SEED & EROSION MATTING
- ④ EXISTING CURB & GUTTER
- ⑤ 5" CONCRETE PAVED TERRACE
- ⑥ EXISTING RETAINING WALL
- ⑦ (THIS NUMBER NOT USED)
- ⑧ NEW RETAINING WALL
- ⑨ 5" CONCRETE SIDEWALK WITH 9" THICKENED EDGE
- ⑩ RAILING
- ⑪ POINT REFERRED TO ON PROFILE



NOTES:
THICKENED 9-INCH SIDEWALK EDGE AND RAILING EXTENDS ALONG SIDEWALK ALIGNMENT SOUTH TO STA 7+15.03.

BATTER PER WALL MANUFACTURER

PLACE EXPANSION JOINTS AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS AND AT 30' MAXIMUM SPACING ON TANGENTS

PLACE CONTRACTION JOINTS AT MAXIMUM 10' SPACING BETWEEN EXPANSION JOINTS. DO NOT RUN BAR STEEL THROUGH JOINT

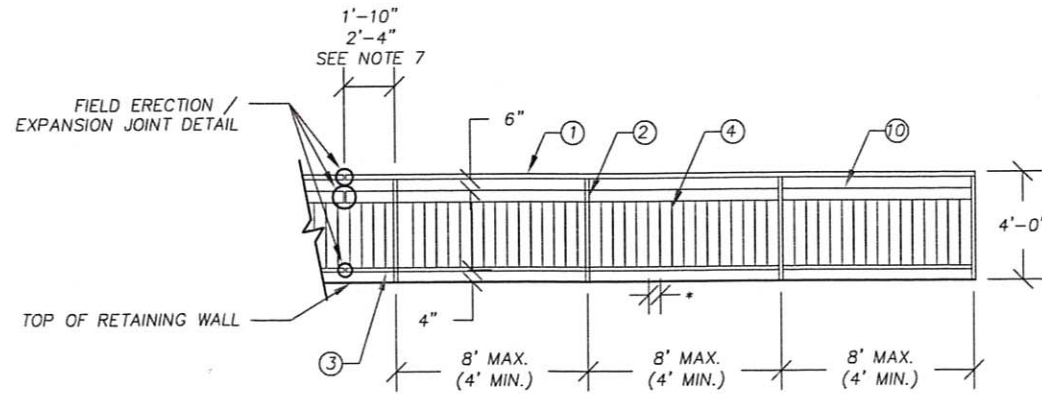
USE 8" BLOCK HEIGHT, STRAIGHT FACE, SANDSTONE COLOR

PIPE UNDERDRAIN WRAPPED 6-INCH, SLOPE 0.5% MIN. TO SUITABLE DISCHARGE

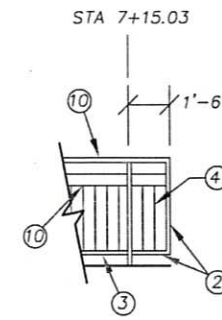
1 ENGINEERED MODULAR RETAINING WALL
R-1 N.T.S.

2 SIDEWALK REINFORCEMENT
R-1 N.T.S.

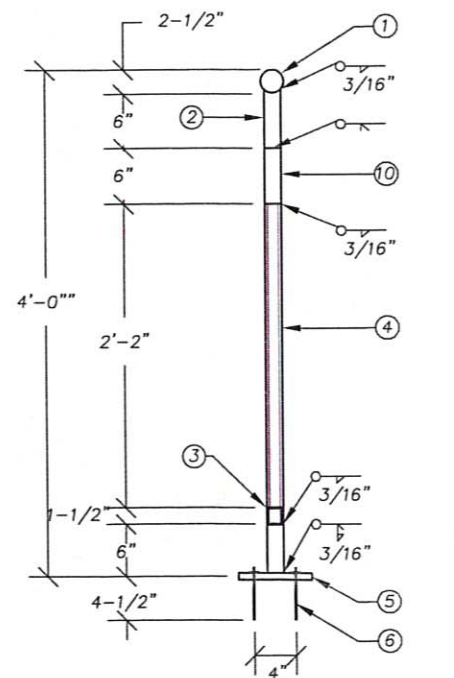
PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____
ORIGINATOR: JSD PROFESSIONAL SERVICES, INC.



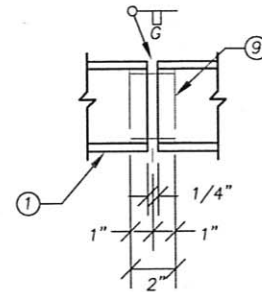
1 PIPE RAILING FOR RETAINING WALL ELEVATION
R-2



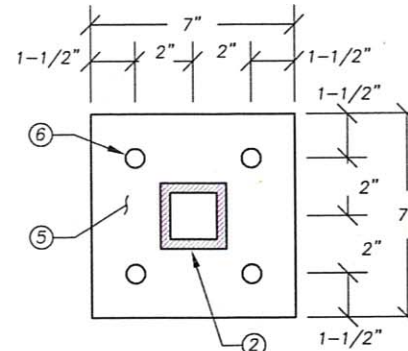
2 END SECTION
R-2



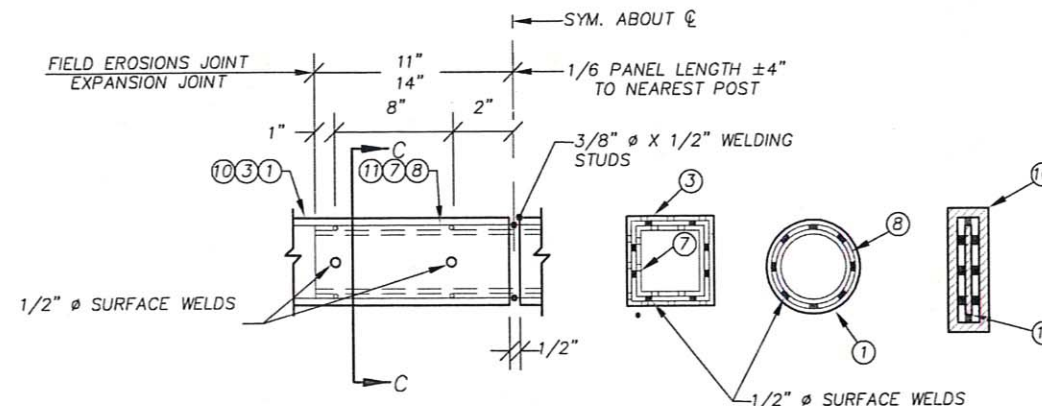
3 SECTION THRU RAILING
R-2



4 SHOP RAIL SPLICE DETAIL
R-2
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



5 RAILING BASE PLATE
R-2



FIELD ERECTION JOINT DETAIL

SECTION C-C

* MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE

6 RAILING STEEL DETAIL
R-2
SEE RETAINING WALL FOR LOCATIONS ON WALLS

LEGEND

- ① 2-1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE WDOT STANDARD SPECIFICATIONS.
- ② TS 2"x2"x0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON THE BASE PLATE.
- ③ TS 1-1/2" X 1-1/2" X 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- ④ TS 1" X 1" X 0.125" SOLID STEEL CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- ⑤ BASE PLATE 1/2" X 7" X 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 9/16" HOLES FOR HEX BOLTS NO.6. WELD TO NO. 2 AS SHOWN.
- ⑥ CONCRETE MASONRY ANCHORS, TYPE S. 5/8". PULLOUT STRENGTH SHALL BE 3.6 KIPS.
- ⑦ SQUARE SLEEVE FABRICATED FROM 1/2" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A33 1 X 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE 3/8" DIA. X 1/2" WELDING STUDS ON TOP AND BOTTOMS SURFACES AT CENTERLINE.
- ⑧ 1-1/2" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS X 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE 3/8" DIA. X 1/2" WELDING STUDS ON TOP AND BOTTOMS SURFACES AT CENTERLINE.
- ⑨ 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE WDOT STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".
- ⑩ TS 6" X 2" X 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.
- ⑪ 1" X 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 X 2'-4" LONG AT EXPANSION JOINTS OR 1'X10" LONG AT FIELD JOINTS. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 10. PROVIDE 3/8" DIA. X 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

- BID ITEM SHALL BE "RAILING STEEL" WHICH INCLUDES ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.
- RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
- POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- ALL MATERIALS EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.
- PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.
- VERTICAL MEMBERS SHALL BE PLUMB.
- HORIZONTAL MEMBERS SHALL PARALLEL GRADE.

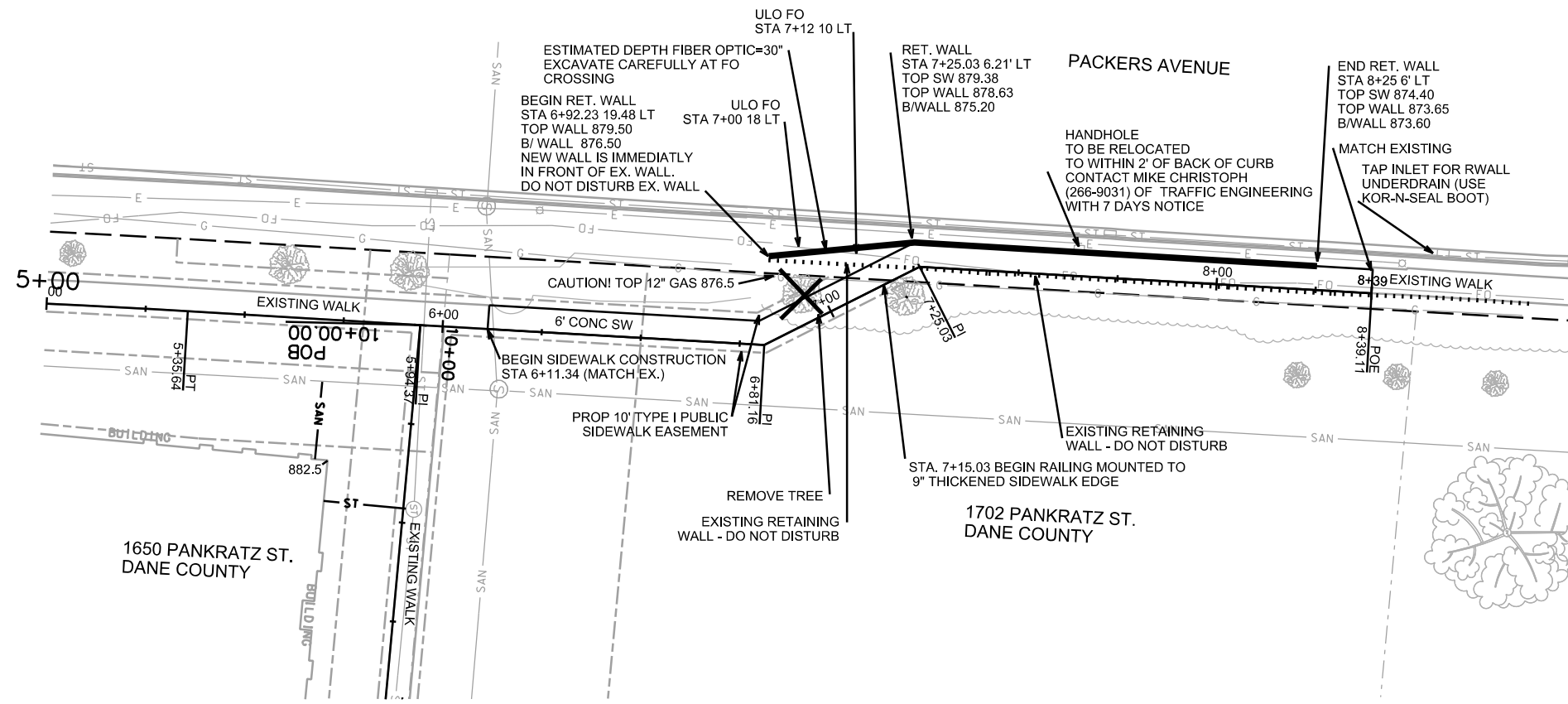
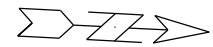
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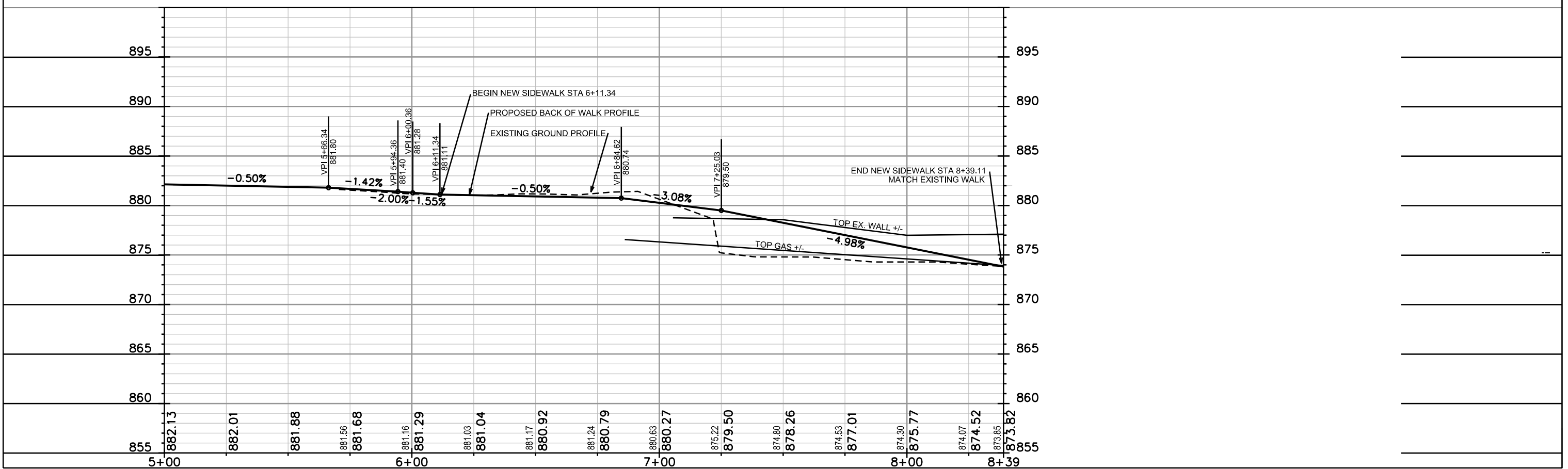
PLAN AND PROFILE
SIDEWALK
PACKERS AVENUE CITY OF MADISON



NOTE: RAILING SHALL BE INSTALLED AT THE WEST EDGE OF THE SIDEWALK, FROM STA. 7+15 TO 8+25. SEE SHEET R- FOR RAILING DETAILS.

EROSION CONTROL NOTES:

1. INSTALL SILT SOCK BEHIND THE CURB ALONG THE LENGTH OF THE WORK AREA.
2. INSTALL INLET PROTECTION IN THE 4 CURB STORM INLETS NEAREST THE WORK AREA.
3. ALL DISTURBED AREAS TO BE RESTORED WITH TOPSOIL, SEED AND EROSION MAT.
4. USE POLYMER STABILIZATION IF DIRECTED BY CONSTRUCTION ENGINEER.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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PLOT NAME: _____

REV. DATE: _____

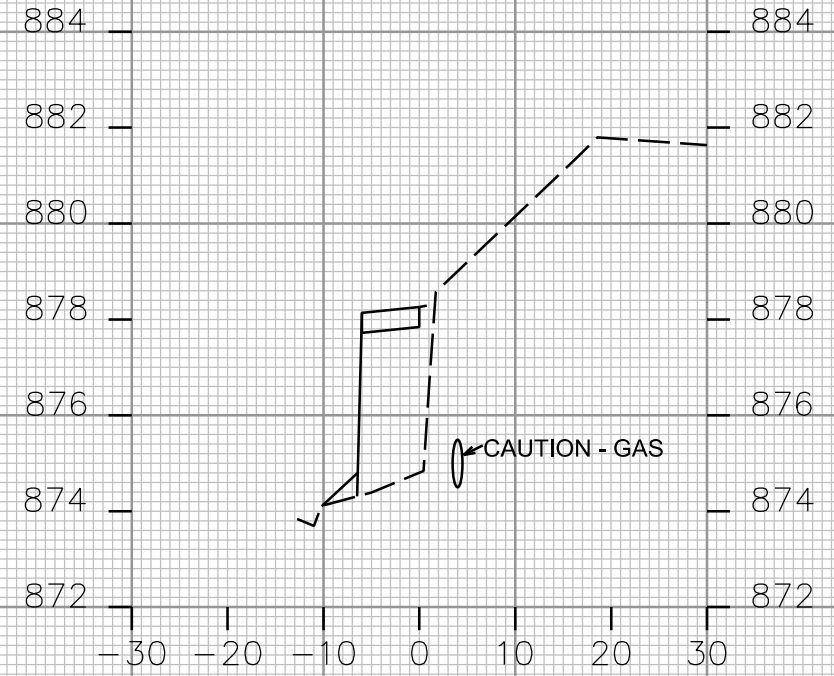
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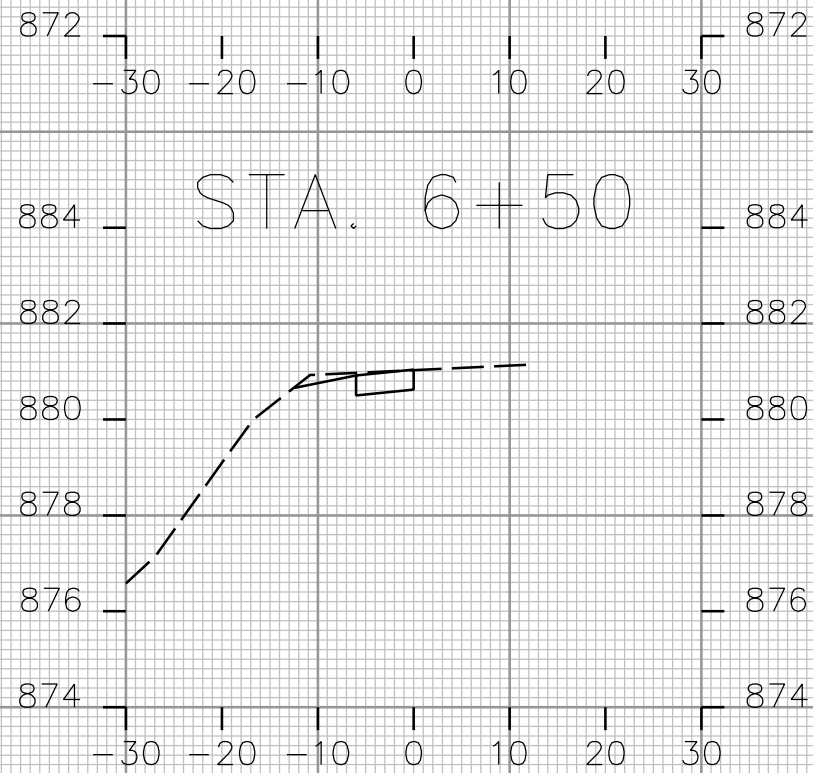
STA. 6+50



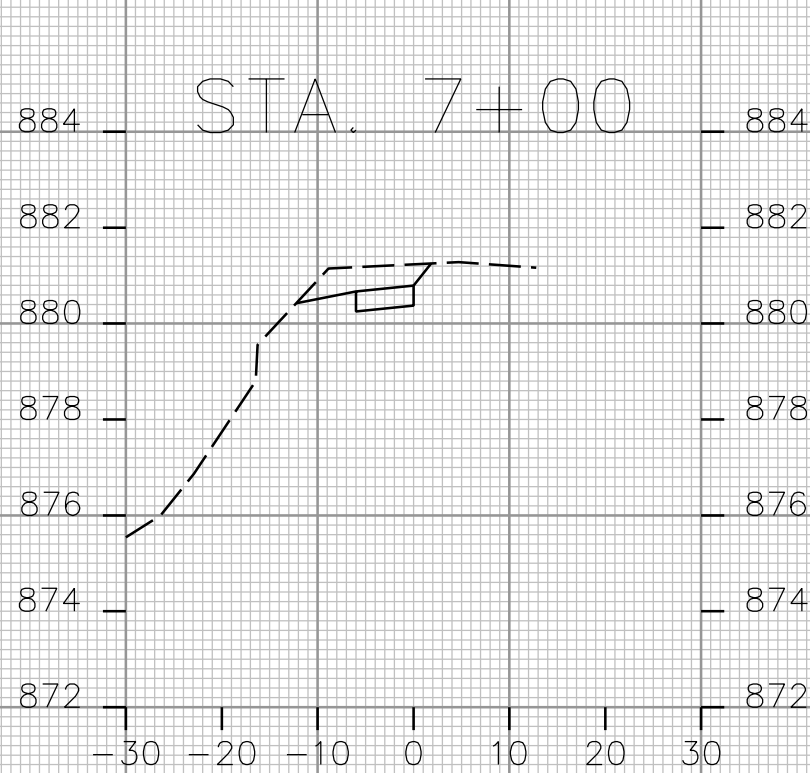
STA. 7+00



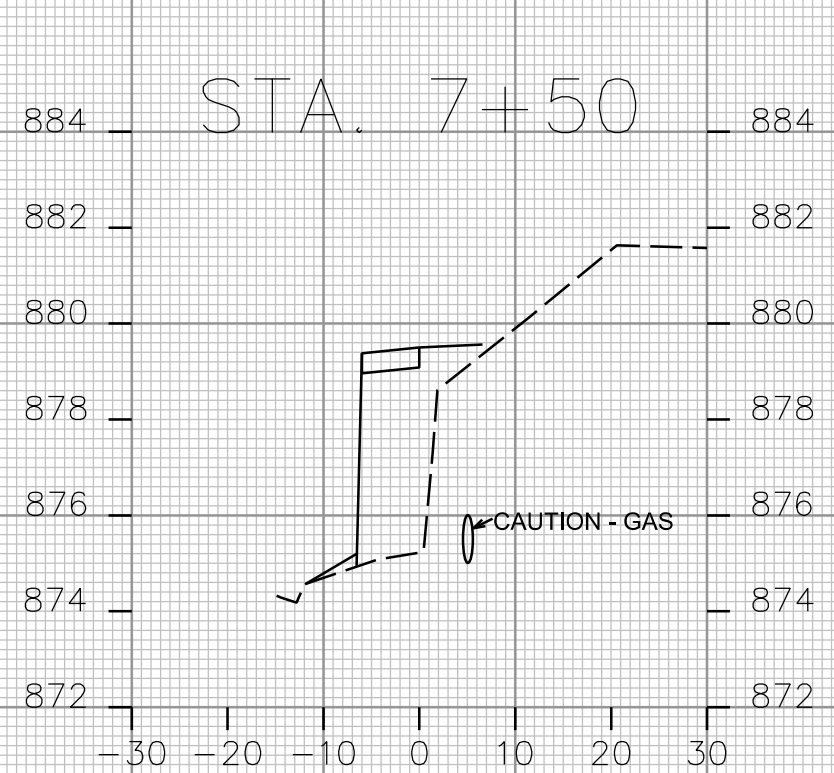
STA. 7+50



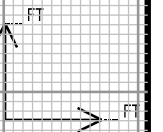
STA. 6+25



STA. 6+75



STA. 7+25

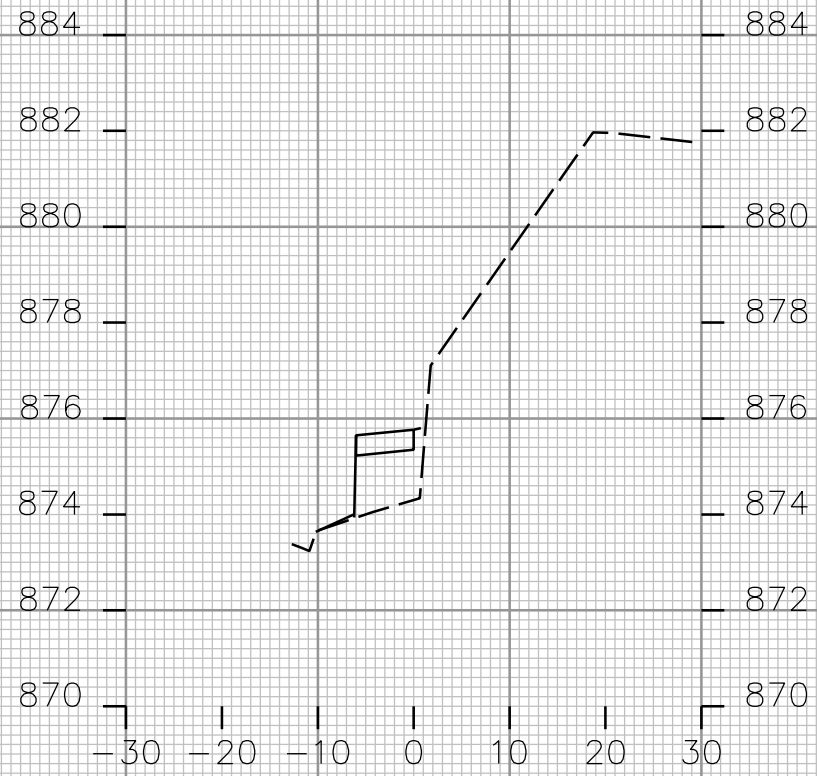


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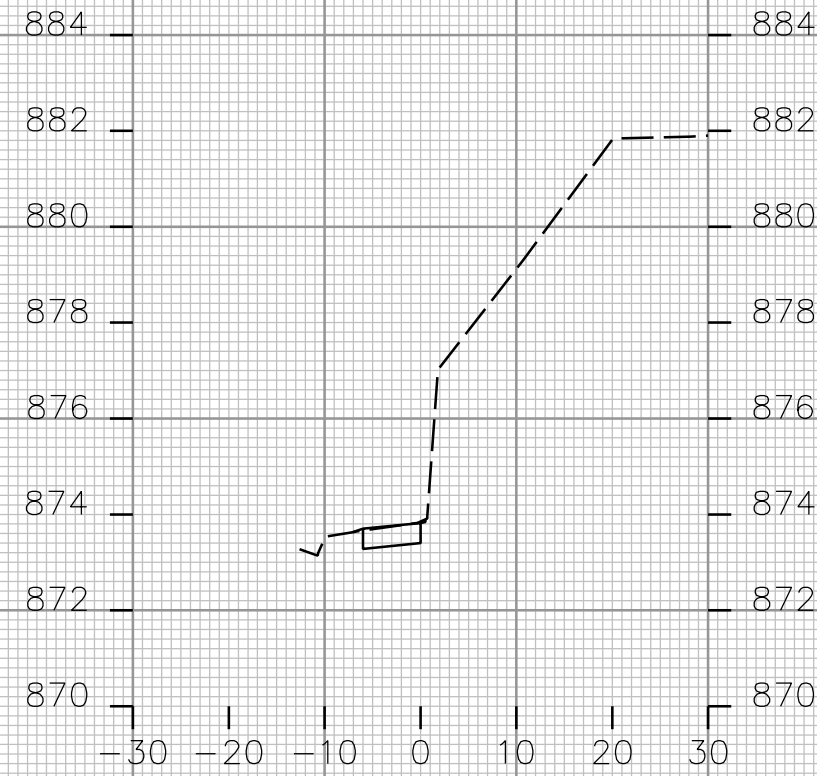
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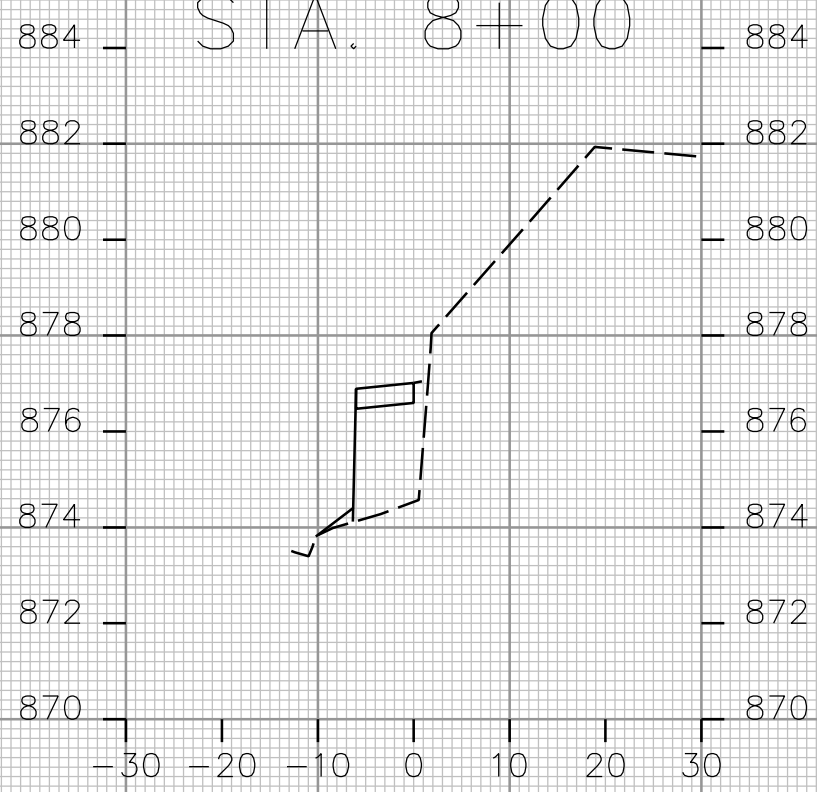
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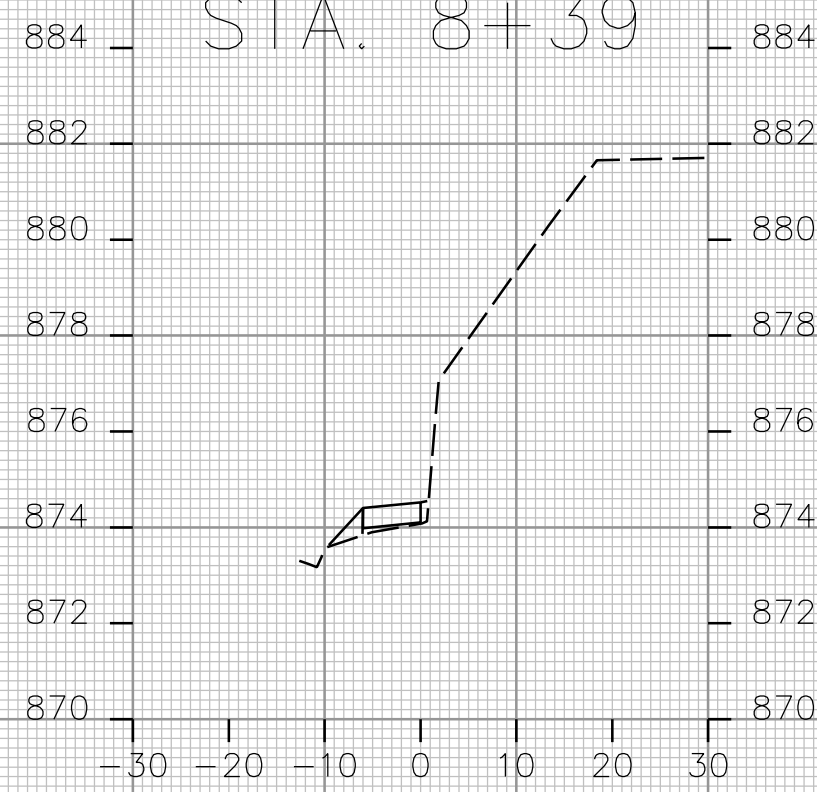
STA. 8+00



STA. 8+39



STA. 7+75



STA. 8+25

