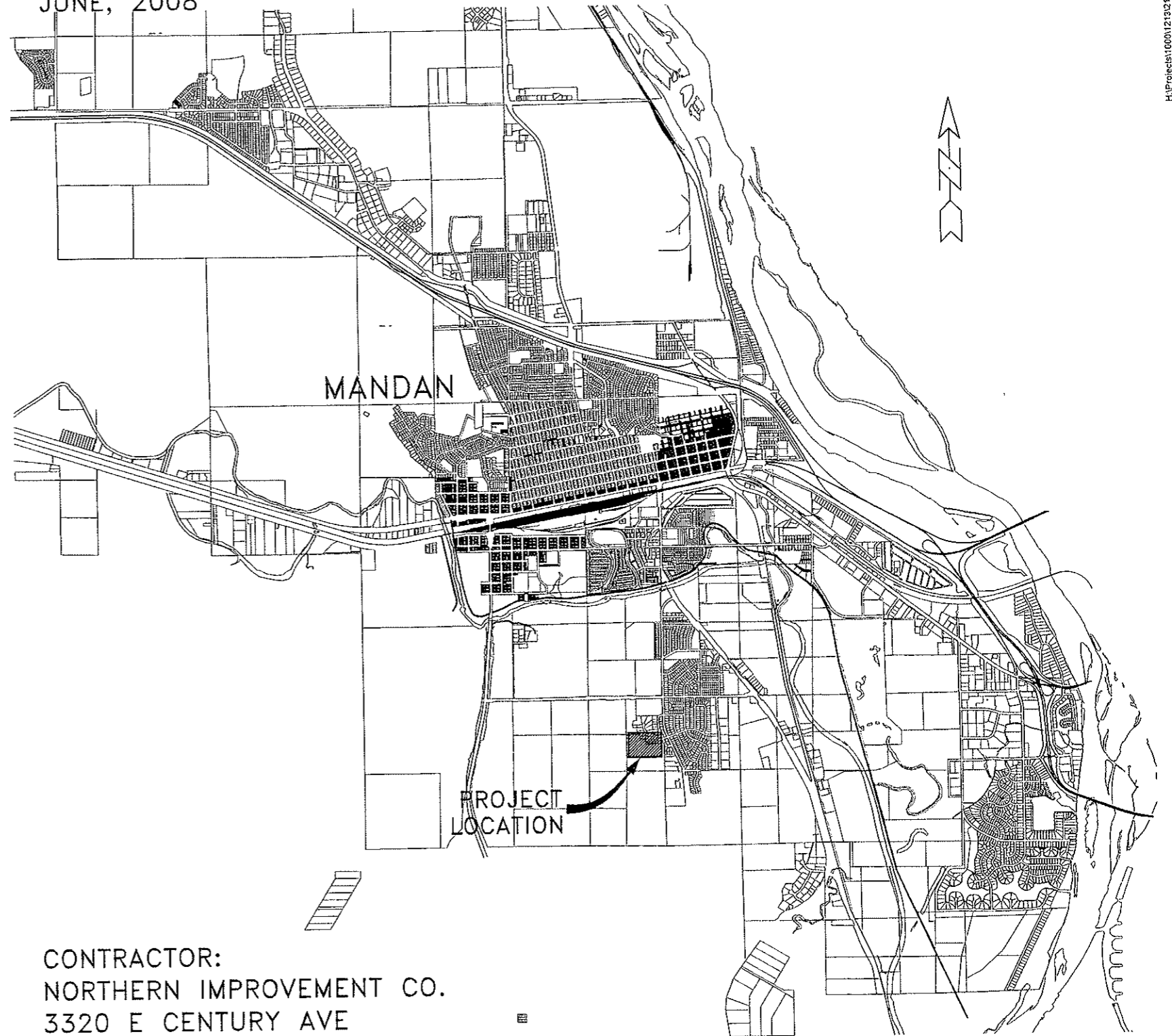


# STREET IMPROVEMENT DISTRICT NO. 138 - AREA "F" AS-BUILT LINCOLN RIDGE ESTATES 2ND ADDITION MANDAN, NORTH DAKOTA

CITY PROJECT NO. 2007-08  
JUNE, 2008

## INDEX OF ASBUILT DRAWINGS

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1	TITLE SHEET
2	PROJECT LAYOUT AREA "F"
3	WEST VIEW PLACE SE PLAN & PROFILE
4	LINCOLN COURT SE PLAN & PROFILE
5	23RD STREET SE PLAN & PROFILE
6	DETAIL SHEET
7	STREET LIGHT DETAILS
8	EROSION CONTROL DETAILS



PREPARED BY:  
TOMAN ENGINEERING

*Ronald Manchester*

DATE: \_\_\_\_\_

RONALD MANCHESTER R.P.E. 3252

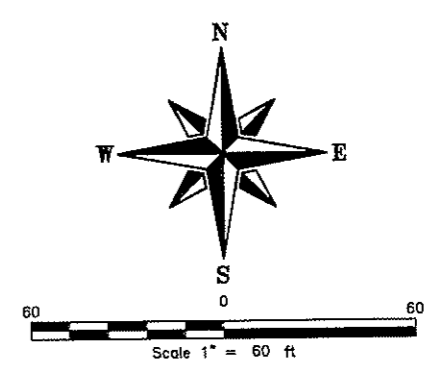
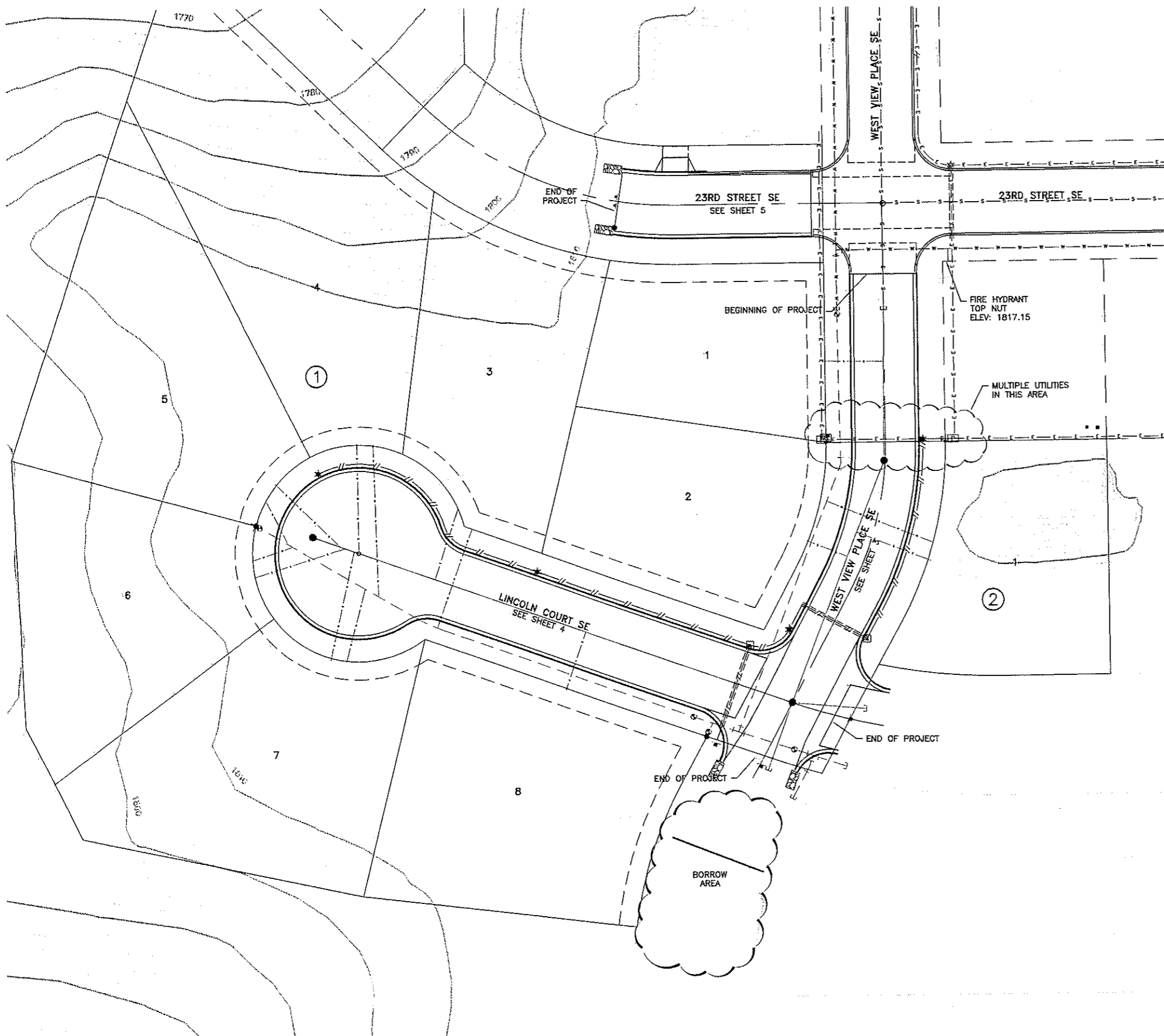


CONTRACTOR:  
NORTHERN IMPROVEMENT CO.  
3320 E CENTURY AVE  
BISMARCK, ND 58503  
(701)223-6695



TOMAN ENGINEERING COMPANY  
CONSULTING CIVIL ENGINEERS  
900 2ND ST. N.W. • MANDAN, NORTH DAKOTA 58504 • 701-663-6463

# AS-BUILT PROJECT LAYOUT - AREA "F"



- LEGEND**
- ⊙ EXISTING MANHOLE
  - EXISTING SANITARY CLEANOUT
  - EXISTING TELEPHONE PEDESTAL
  - ★ EXISTING STREET LIGHT
  - ⊕ EXISTING UTILITY POLE
  - ↑ EXISTING ANCHOR POLE
  - EXISTING ELECTRICAL BOX
  - ⊙ EXISTING TREE
  - EXISTING FIRE HYDRANT
  - EXISTING GATE VALVE
  - EXISTING SIGN
  - s — s — EXISTING SANITARY SEWERMAIN
  - w — w — EXISTING WATERMAIN
  - oh — oh — EXISTING OVERHEAD POWER LINE
  - e — e — EXISTING UNDERGROUND ELECTRIC
  - c — c — EXISTING CURB & GUTTER
  - ss — ss — EXISTING STORM SEWER
  - g — g — EXISTING GAS LINE
  - t — t — EXISTING TELEPHONE CABLE
  - EXISTING FIRE HYDRANT
  - EXISTING GATE VALVE
  - EXISTING SANITARY SEWER MANHOLE
  - ★ INSTALLED STREET SIGN
  - ★ INSTALLED STREET LIGHT
  - INSTALLED JUNCTION BOX
  - // — INSTALLED UNDERGROUND ELECTRIC
  - // — INSTALLED CURB & GUTTER
  - - - - - EXISTING WATERMAIN
  - · · · · · EXISTING WATER SERVICE
  - · · · · · EXISTING SANITARY SEWERMAIN
  - · · · · · EXISTING SANITARY SERVICE

**AVOID CUTTING UNDERGROUND UTILITY LINES IN YOUR AREA**

TWO WORKING DAYS BEFORE YOU DIG-DRILL-BLAST IN NORTH DAKOTA - CALL TOLL FREE 1-800-795-0555 UTILITIES UNDERGROUND LOCATION CENTER



H:\Projects\1000\1213\2160 Project Layout.dwg, 3/23/2009 3:16:19 PM, 1:1, PEB

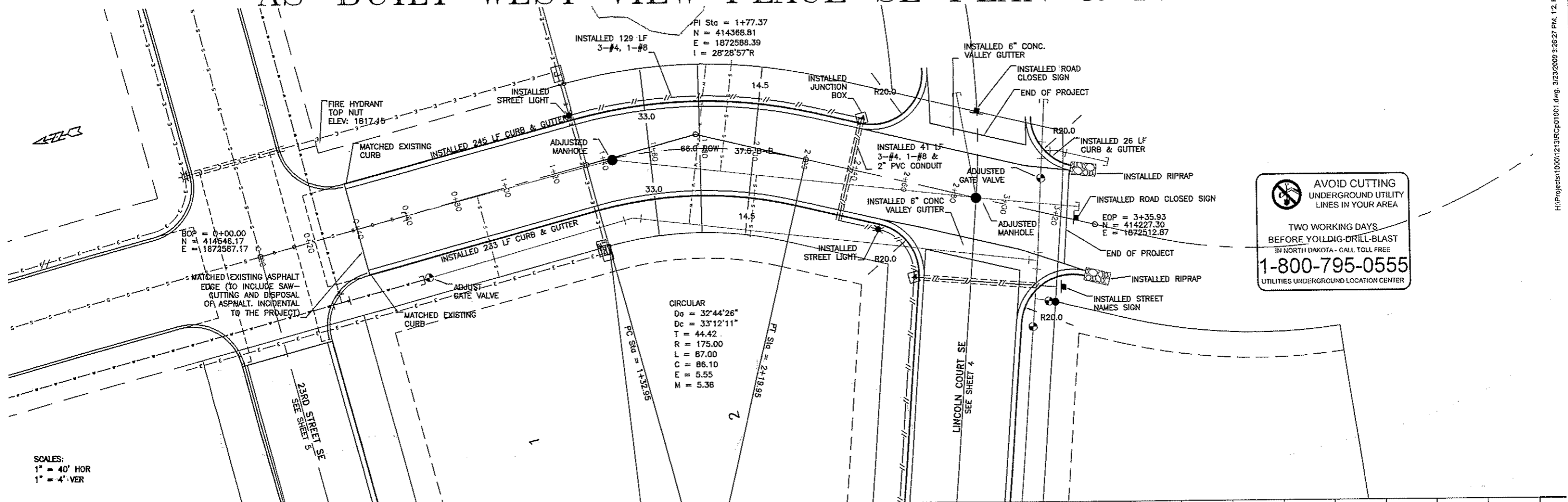
**TOMAN ENGINEERING COMPANY**  
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 501 1ST ST. N.W. • MAYOMAR, NORTH DAKOTA 58544 • (701) 685-6485

PROJECT: STREET IMP. DIST. NO. 138 - AREA "F" - AREA "F"  
 LINCOLN RIDGE ESTATES 2ND ADDITION  
 AS-BUILT PROJECT LAYOUT - AREA "F"

NO.	DATE	BY	REVISIONS

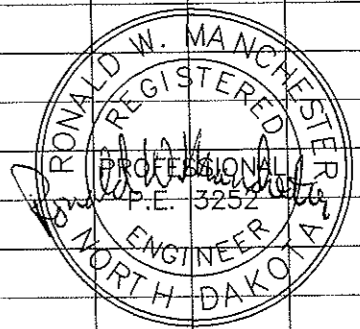
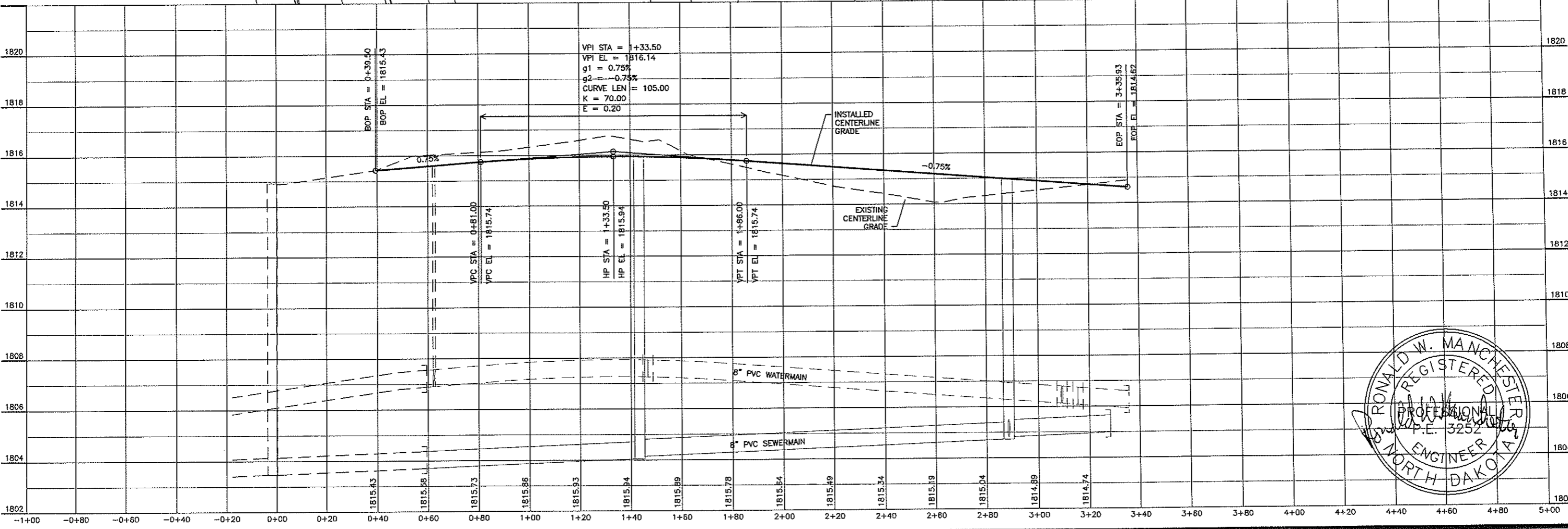
SHEET NUMBER  
**2**  
 OF 8 SHEETS

# AS-BUILT WEST VIEW PLACE SE PLAN & PROFILE



SCALES:  
 1" = 40' HOR  
 1" = 4' VER

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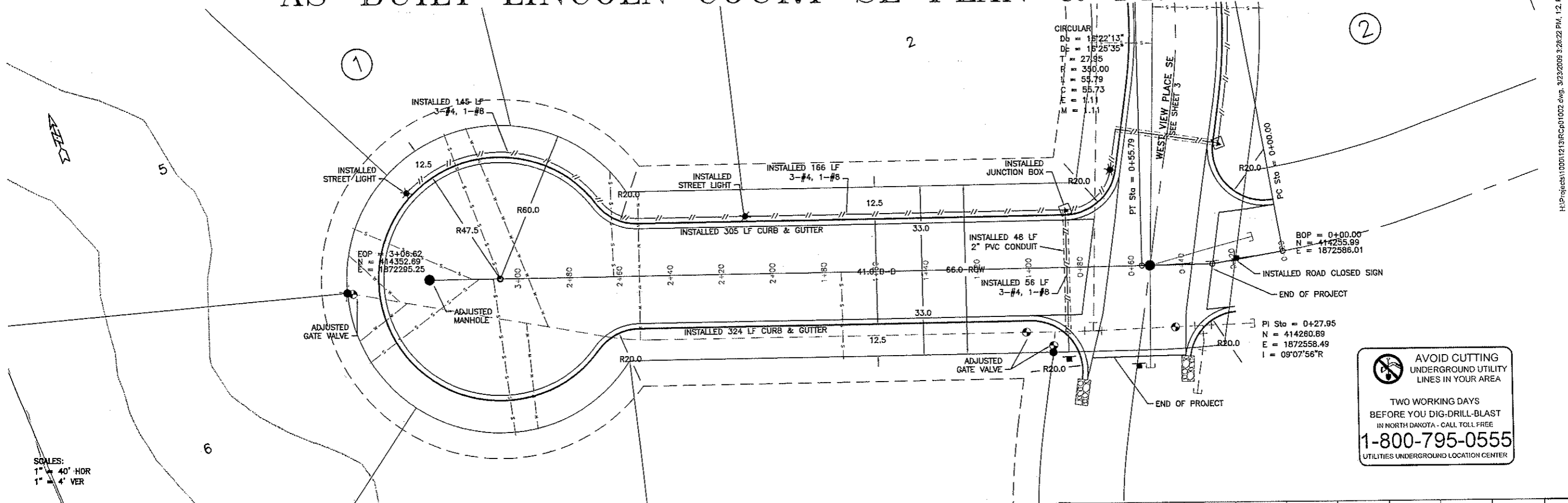
PROJECT: STREET IMPROVEMENT DIST. NO. 138 - AREA "F"  
 LINCORN RIDGE ESTATES 2ND ADDITION  
 AS-BUILT WEST VIEW PLACE SE PLAN & PROFILE

NO.	DATE	BY	REVISIONS

SHEET NUMBER **3** OF 8 SHEETS

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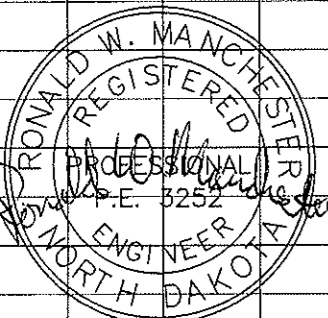
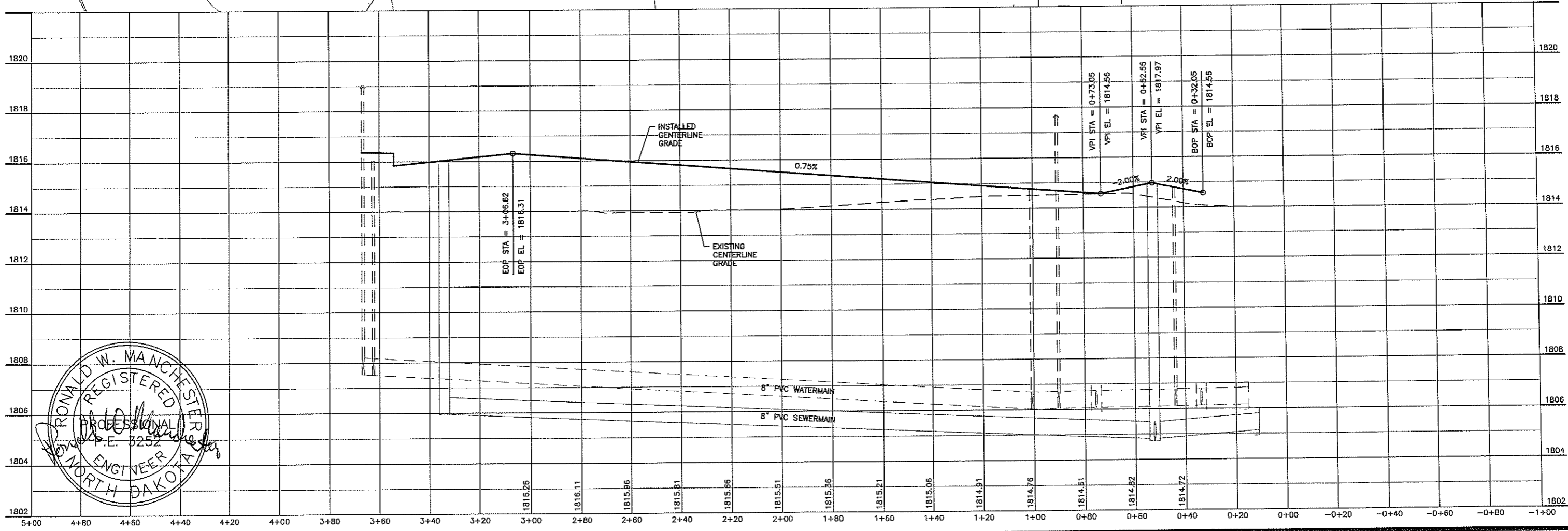
# AS-BUILT LINCOLN COURT SE PLAN & PROFILE



SCALES:  
 1" = 40' HOR  
 1" = 4' VER

**AVOID CUTTING UNDERGROUND UTILITY LINES IN YOUR AREA**

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PROJECT: STREET IMP. DIST. NO. 138 - AREA "F"  
 LINCOLN RIDGE ESTATES 2ND ADDITION  
 AS-BUILT LINCOLN COURT SE PLAN & PROFILE

NO.	BY	DATE	REVISIONS

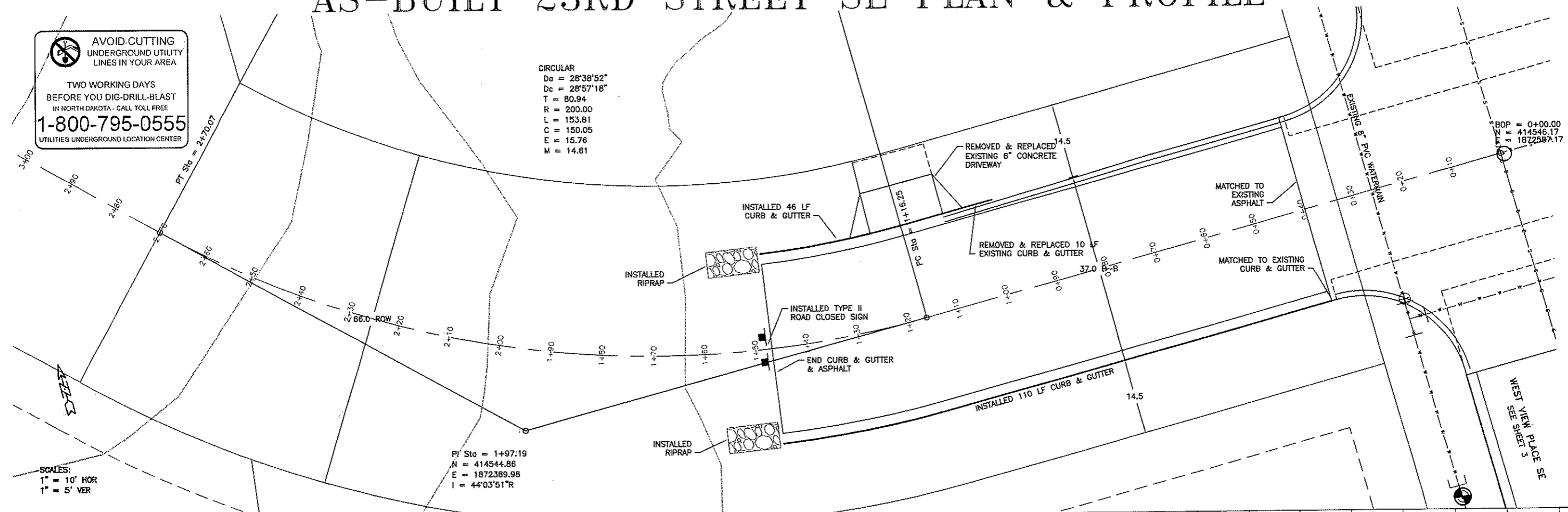
SHEET NUMBER **4**  
 OF 8 SHEETS

# AS-BUILT 23RD STREET SE PLAN & PROFILE

**AVOID CUTTING UNDERGROUND UTILITY LINES IN YOUR AREA**

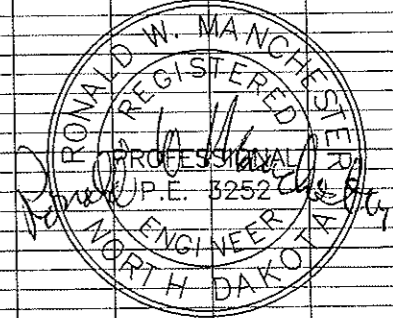
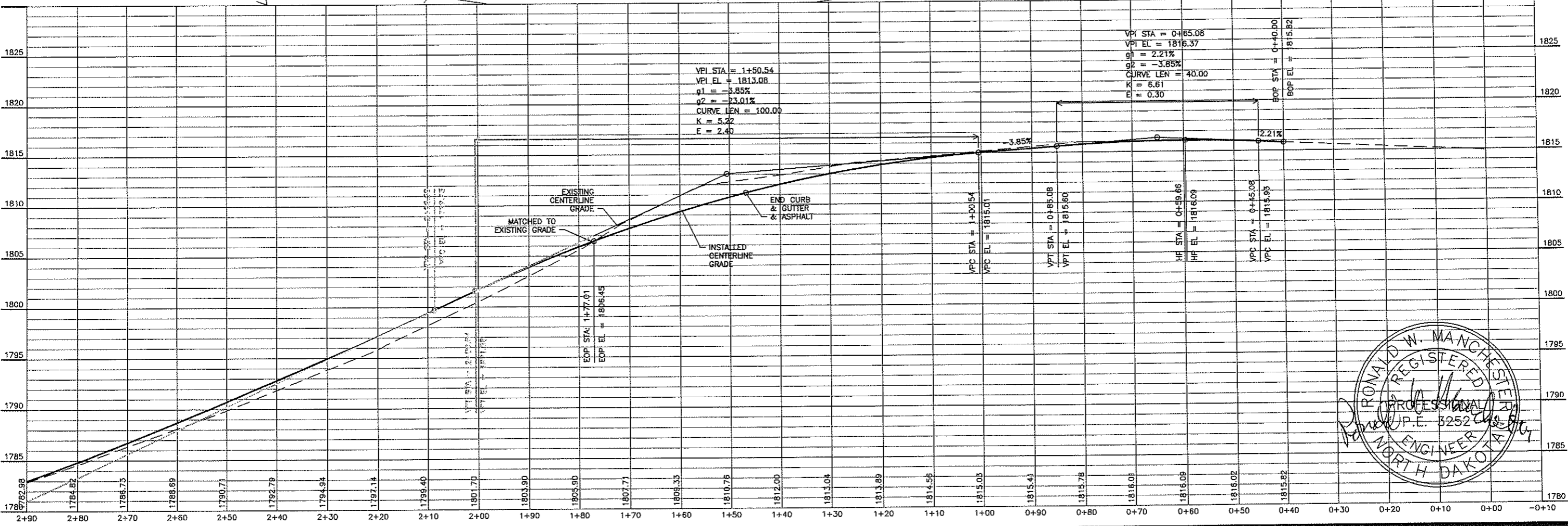
TWO WORKING DAYS BEFORE YOU DIG-DRILL-BLAST IN NORTH DAKOTA - CALL TOLL FREE **1-800-795-0555** UTILITIES UNDERGROUND LOCATION CENTER

**CIRCULAR**  
 $D_c = 28^{\circ}38'52"$   
 $D_c = 28^{\circ}57'18"$   
 $T = 80.94$   
 $R = 200.00$   
 $L = 153.81$   
 $C = 150.05$   
 $E = 15.76$   
 $M = 14.81$



PI' Sta = 1+97.19  
 $N = 414544.86$   
 $E = 1872389.98$   
 $I = 44^{\circ}03'51''R$

**SCALES:**  
 1" = 10' HOR  
 1" = 5' VER



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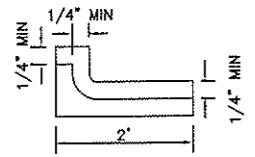
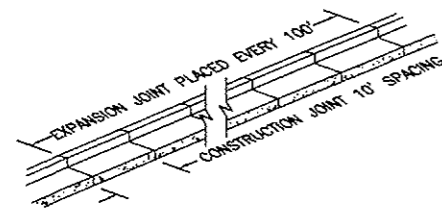
PROJECT: STREET IMP. DIST. NO. 138 - AREA "F"  
 LINCOLN RIDGE ESTATES 2ND ADDITION  
 AS-BUILT 23RD STREET SE PLAN & PROFILE

NO.	DATE	BY	REVISIONS

SHEET NUMBER  
5  
 OF 8 SHEETS

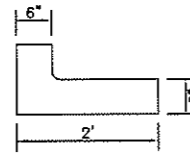
# AS-BUILT DETAIL SHEET

## NO SCALE



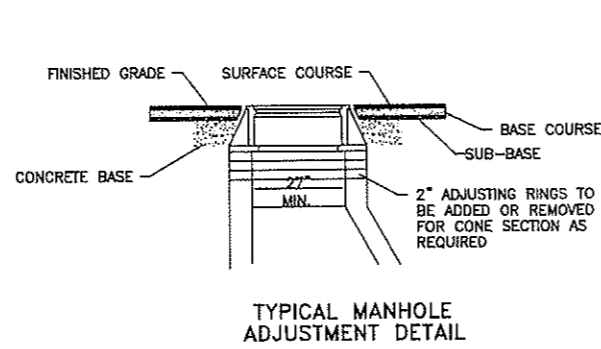
NOTE: CONSTRUCTION JOINT 10' SPACING

SECTION VIEW OF CONSTRUCTION JOINT (SAW CUT ON SLABS HAND EDGE ON CURB & GUTTER)

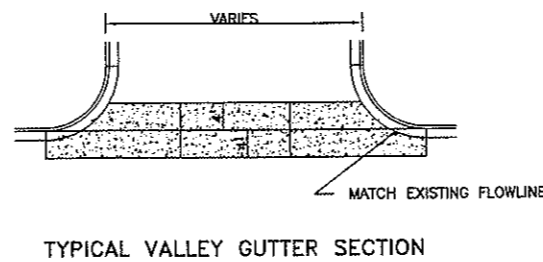
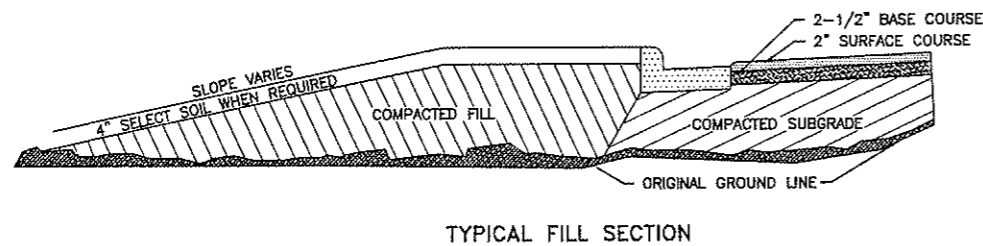
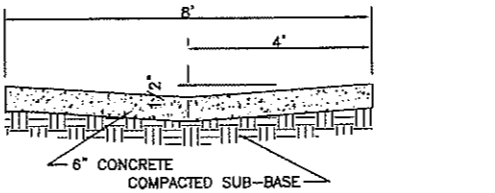
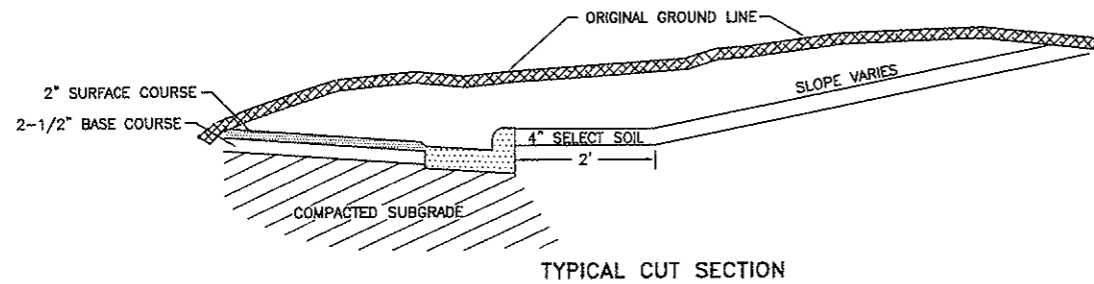
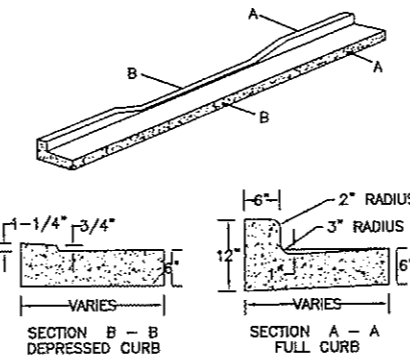
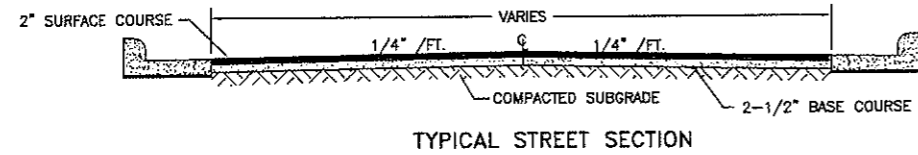
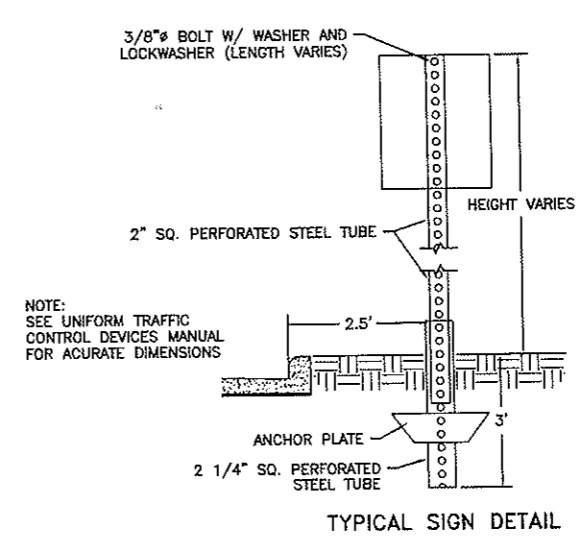
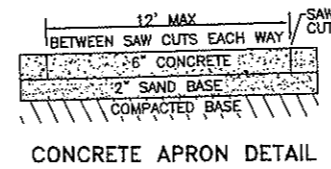
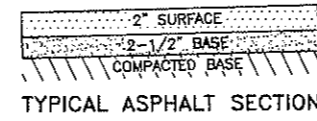
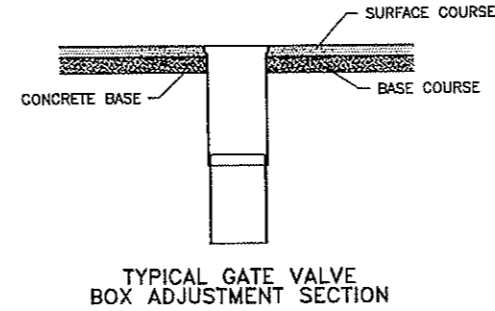
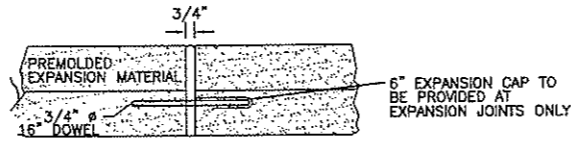


NOTE: 3/4" FELT EXPANSION JOINT PLACED EVERY 100'

SECTION VIEW OF EXPANSION JOINT



NOTE: EXPANSION CAPS TO BE OF 30 GA. STEEL ONE-HALF DOWEL TO BE COATED WITH HEAVY GREASE TO BE PLACED EVERY 100', AND AT ALL CURVE P.C. & P.T.'S



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PROJECT: STREET IMP. DIST. NO. 139 - AREA "F" LINCOLN RIDGE ESTATES 2ND ADDITION AS-BUILT DETAIL SHEET

NO.	DATE	BY	REVISIONS

SHEET NUMBER  
**6**  
OF 8 SHEETS

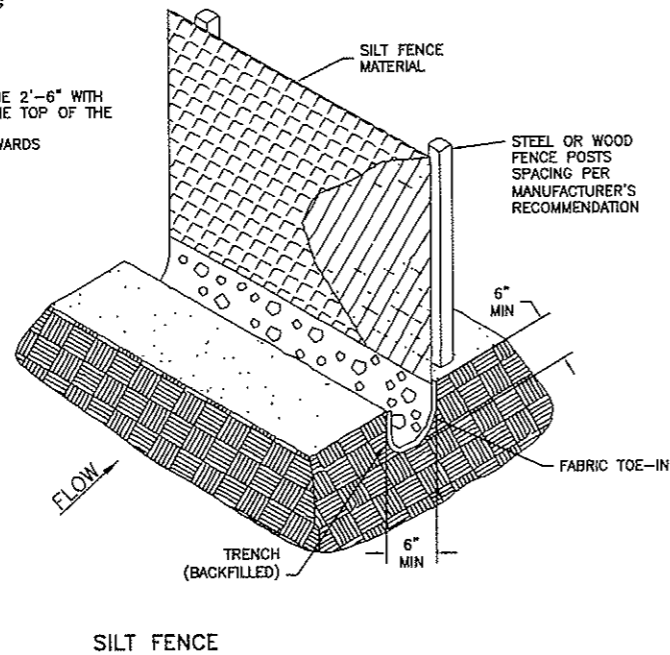
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# AS-BUILT EROSION CONTROL DETAILS

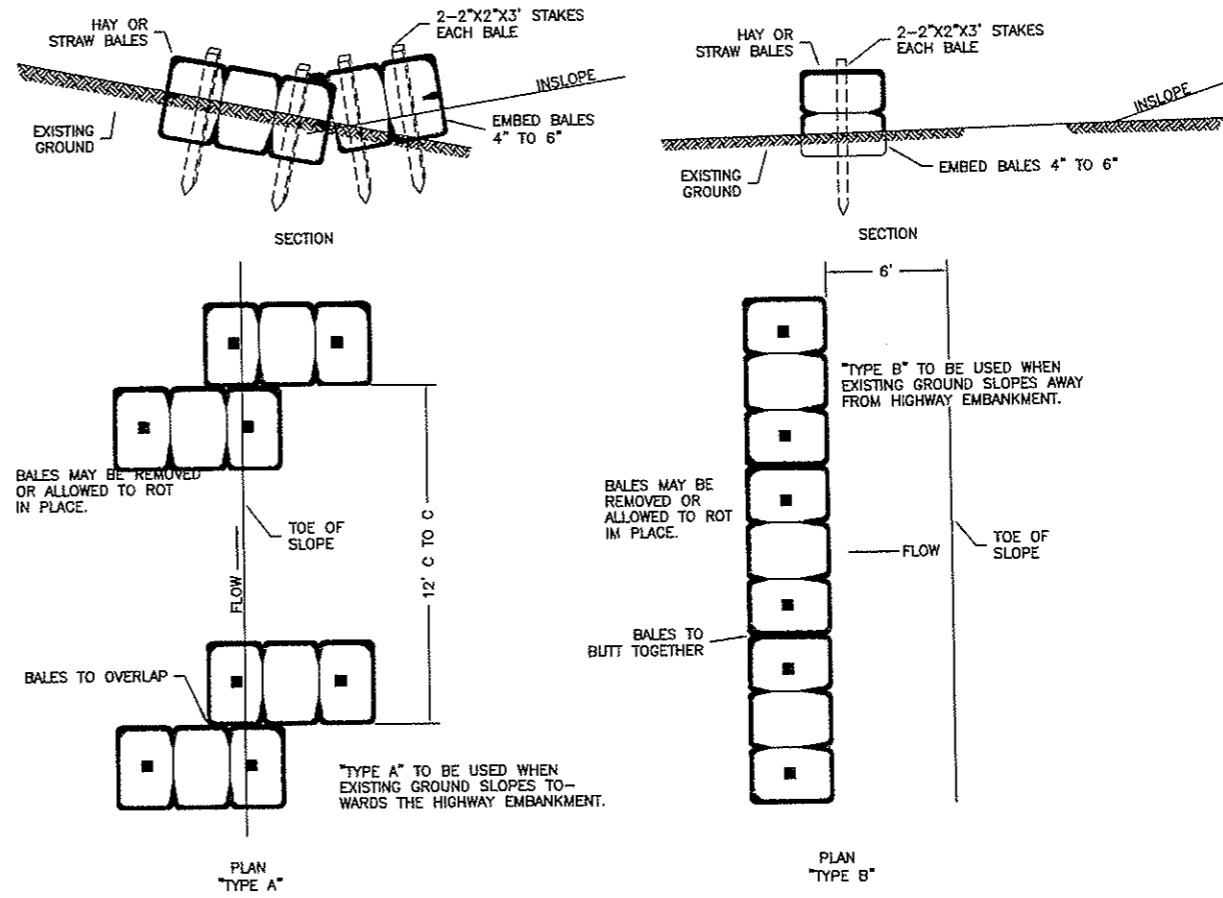
NO SCALE

**NOTES:**

1. SILT FENCE FABRIC SHALL BE ONE OF THE FOLLOWING
  - A. BURLAP; AASHTO M182
  - B. POLYPROPYLENE FABRIC; ASTM D4397
  - C. NYLON NETTING REINFORCED FABRIC
  - D. PREMANUFACTURED SILT FENCE MEETING EQUAL PROPERTIES OF ABOVE.
2. SILT FENCE FABRIC SHALL HAVE A MINIMUM BURSTING STRENGTH 150 PSI
3. SILT FENCE FABRIC SHALL HAVE EDGES TREATED TO PREVENT UNRAVELING.
4. MINIMUM HEIGHT OF THE SILT FENCE TO BE 2'-6" WITH A MINIMUM OF 6" CLEARANCE BETWEEN THE TOP OF THE SILT FENCE AND THE TOP OF THE POSTS.
5. INSTALL THE POSTS ON SLIGHT ANGLE TOWARDS THE ANTICIPATED RUNOFF SURFACE.



SILT FENCE



BALED HAY OR STRAW EROSION CHECKS


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**1-800-795-0555**  
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PROJECT: STREET IMP. DIST. NO. 138 - AREA "F" LINCOLN RIDGE ESTATES 2ND ADDITION AS-BUILT EROSION CONTROL DETAILS

NO.	DATE	BY	REVISIONS

TITLE: STREET IMPROVEMENT DIST. NO. 138 - AREA "F"

CITY: GRAND FORTY

DRAWN BY: AM

CHECKED BY:

DATE: 03/07

SHEET NUMBER
8
OF 8 SHEETS