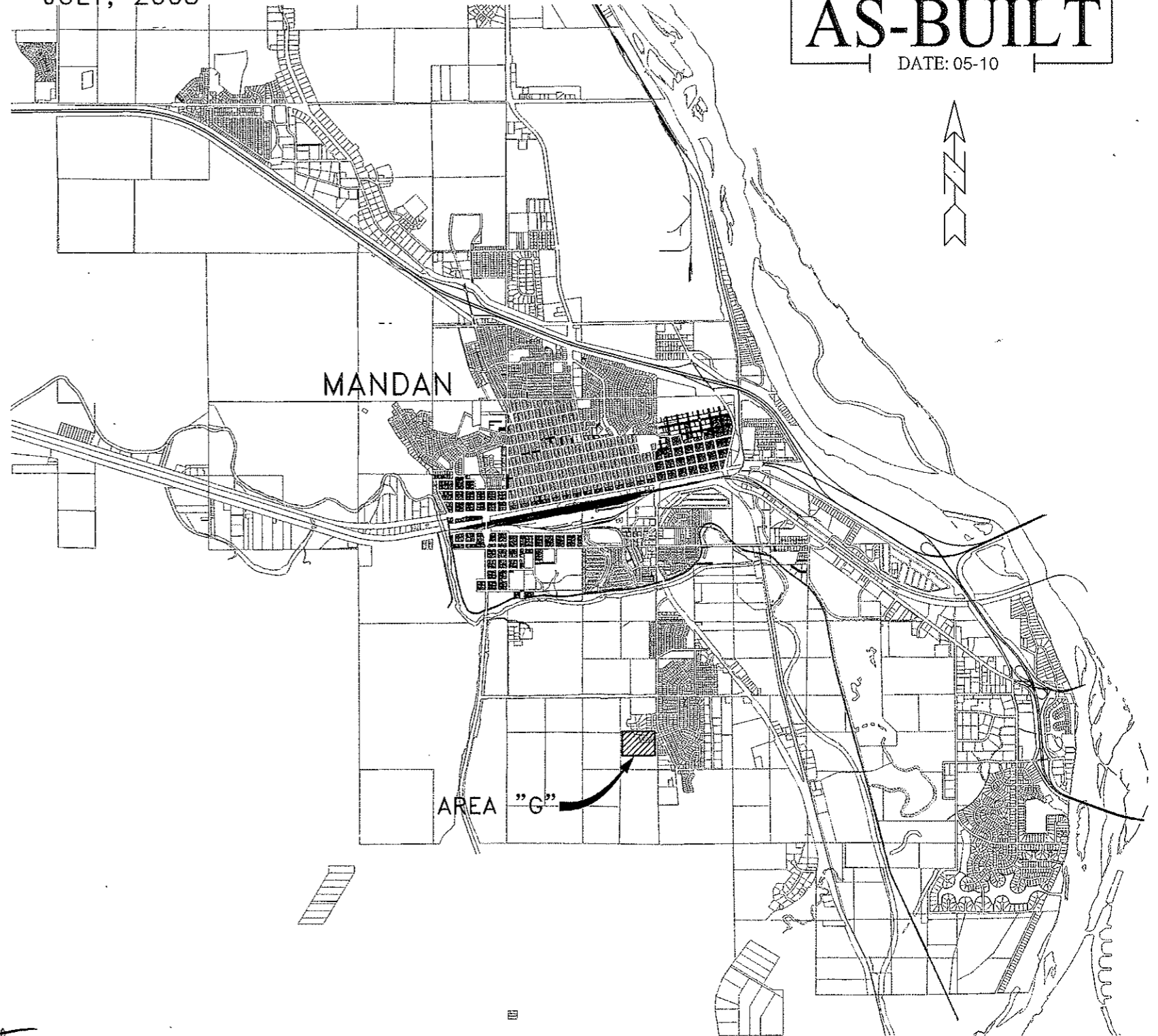


# STREET IMPROVEMENT DISTRICT NO. 138 - AREA "G" LINCOLN RIDGE ESTATES 3RD & 4TH ADDITION ASBUILT MANDAN, NORTH DAKOTA

CITY PROJECT NO. 2008-15  
 JULY, 2008

**AS-BUILT**  
 DATE: 05-10



## INDEX OF ASBUILT DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2	PROJECT LAYOUT
3	25TH STREET SE PLAN & PROFILE
4	LINCOLN COURT SE PLAN & PROFILE
5	STORM SEWER PLAN & PROFILE
6	STREET LIGHT DETAILS
7	DETAIL SHEET
8	EROSION CONTROL DETAILS

PREPARED BY:  
 TOMAN ENGINEERING

*Ronald Manchester*

DATE: 12/6/2010

RONALD MANCHESTER R.P.E. 3252

CONTRACTOR:

MARINER CONSTRUCTION INC.

1771 W. CAVALRY DR.

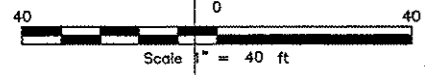
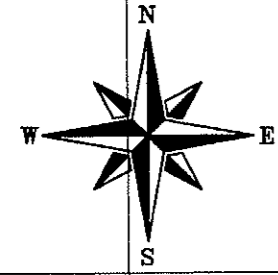
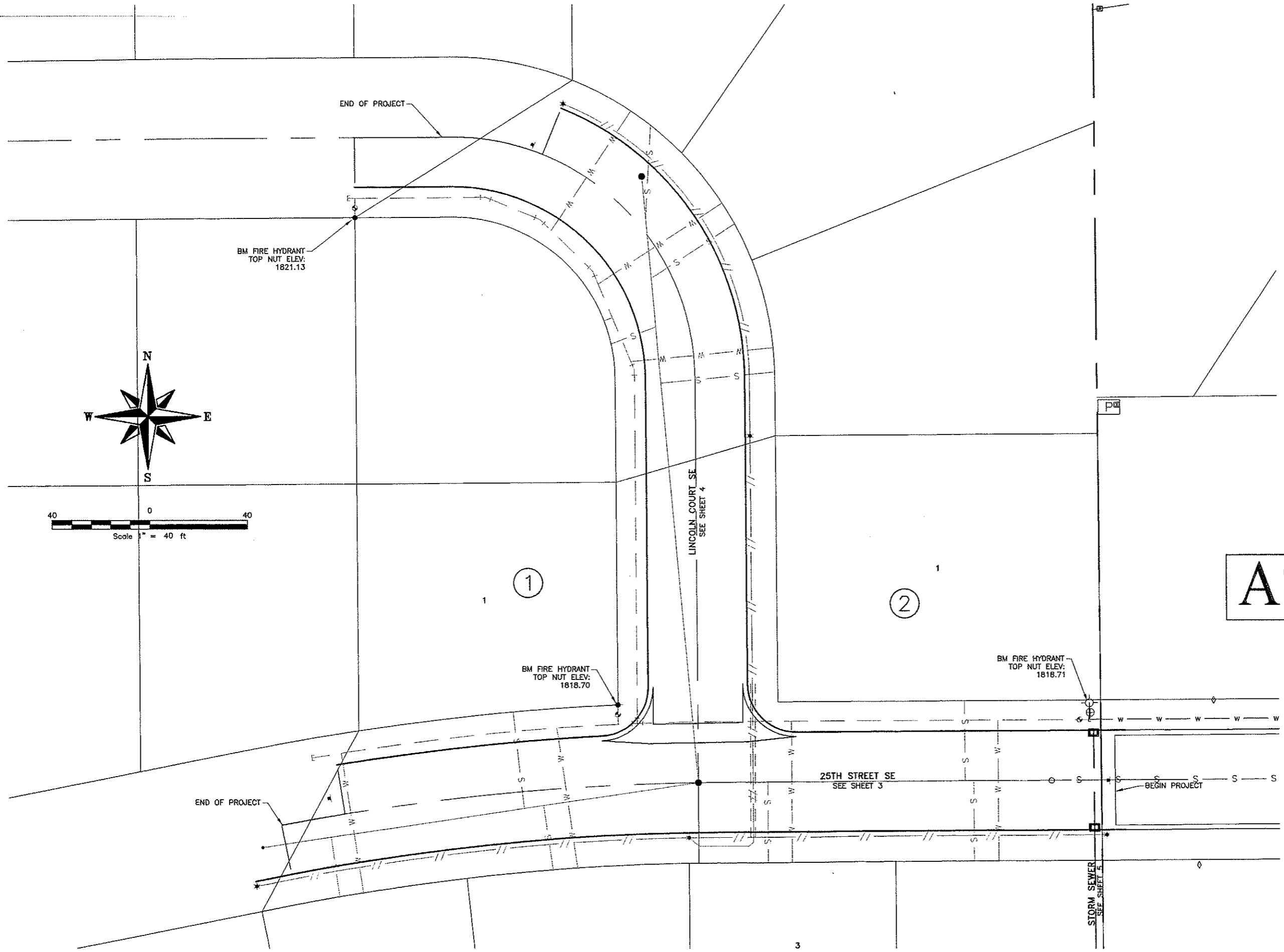
BISMARCK, NORTH DAKOTA

PHONE: 1-701-258-8987



TOMAN ENGINEERING COMPANY  
 CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS  
 501 1ST ST. N.W. • MANDAN, NORTH DAKOTA 58554 • 701-883-8483

# PROJECT LAYOUT



- 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 — EXISTING SANITARY SEWERMAIN
  - W — EXISTING WATERMAIN
  - — — EXISTING OVERHEAD POWER LINE
  - E — EXISTING UNDERGROUND ELECTRIC
  - — — EXISTING CURB & GUTTER
  - — — EXISTING STORM SEWER
  - G — EXISTING GAS LINE
  - T — EXISTING TELEPHONE CABLE
  - ⊕ INSTALLED FIRE HYDRANT
  - ⊕ INSTALLED GATE VALVE
  - INSTALLED SANITARY SEWER MANHOLE
  - ☆ INSTALLED STREET SIGN
  - ☆ INSTALLED STREET LIGHT
  - — — INSTALLED UNDERGROUND ELECTRIC
  - — — INSTALLED CURB & GUTTER
  - — — INSTALLED WATERMAIN
  - W — INSTALLED WATER SERVICE
  - — — INSTALLED SANITARY SEWERMAIN
  - S — INSTALLED SANITARY SERVICE

AS-BUILT

DATE: 05-11-10

**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



TOMAN ENGINEERING COMPANY  
CONSULTING CIVIL ENGINEERS  
501 1ST ST. N.W. • WANDAK, NORTH DAKOTA 58554 • (701) 865-4465

PROJECT: STREET IMP. DIST. NO. 138 - AREA "G" LINCOLN RIDGE ESTATES 3RD & 4TH ADDITION LINCOLN COURT SE PROJECT LAYOUT

TITLE: STREET IMPROVEMENT DIST. NO. 138 - AREA "G"	DATE: 05/11/10	BY: RWS	CHECKED: RWS	DATE: 05/11/10	DATE: 05/11/10
REVISIONS	DATE	BY	REASON	DATE	DATE
1	05/08	AM	ISSUE FOR PERMIT	05/08	
2	05/10	MS	AS-BUILT	05/10	

SHEET NUMBER

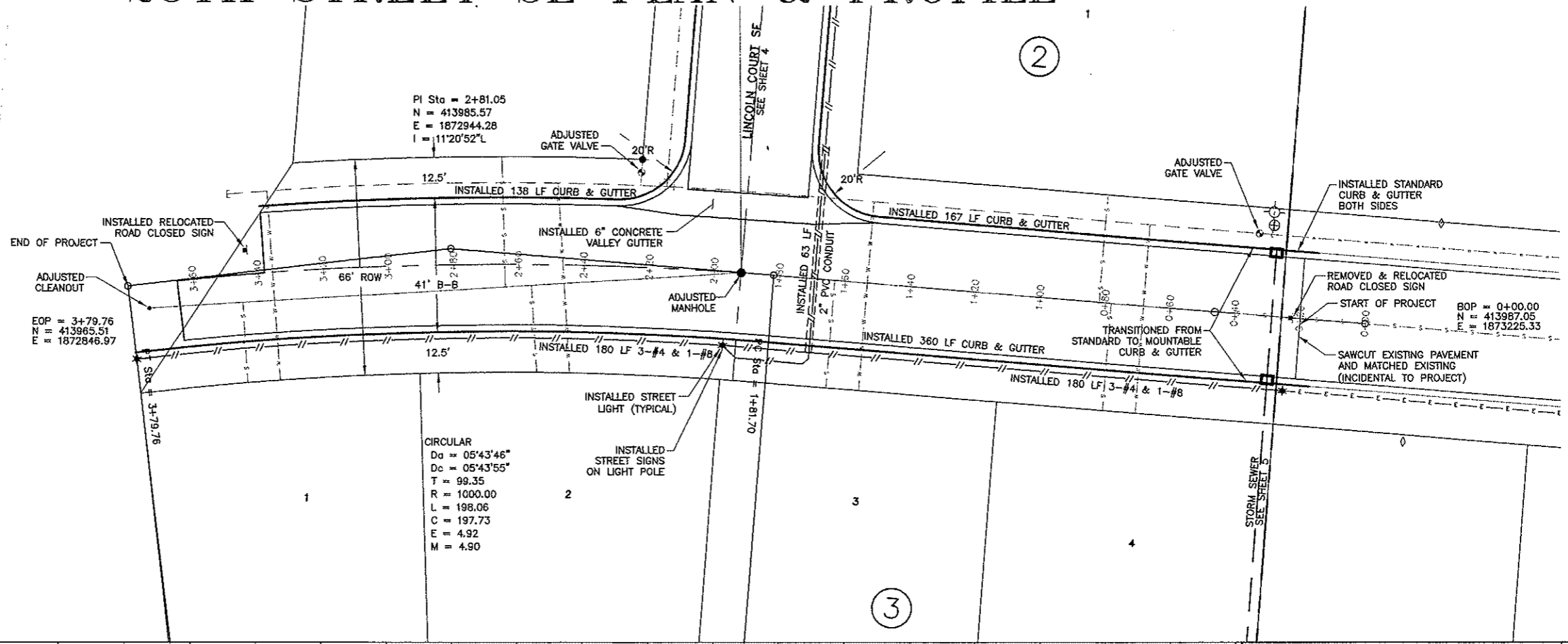
2

OF 8 SHEETS

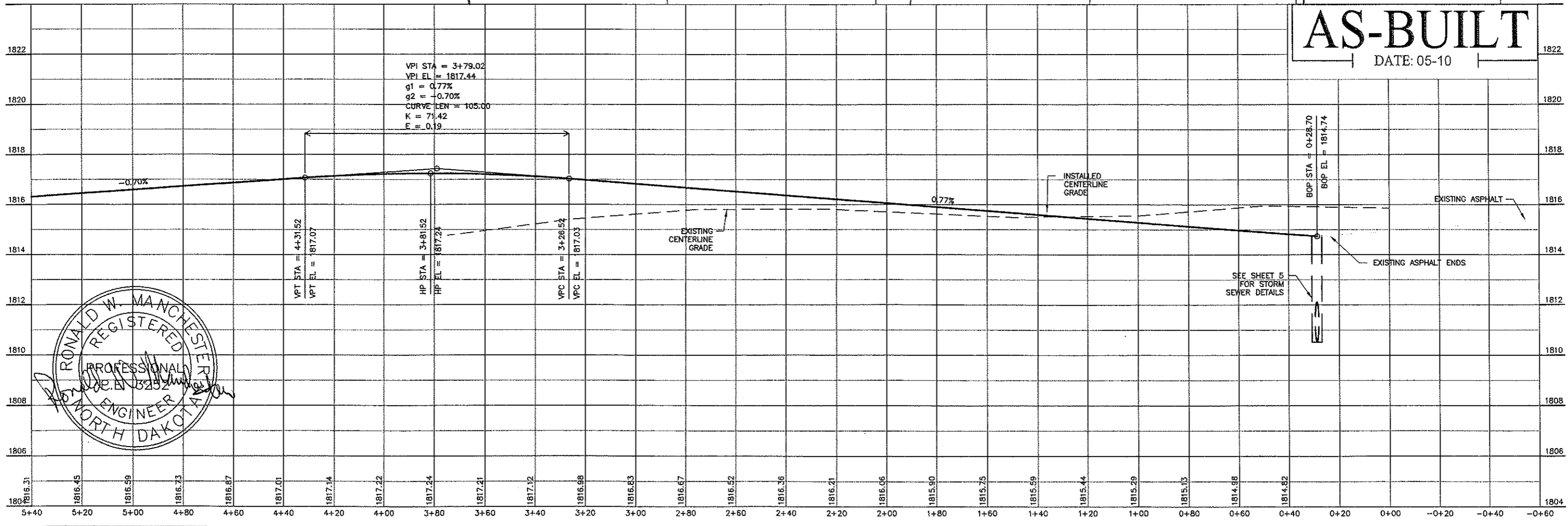
# 25TH STREET SE PLAN & PROFILE

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

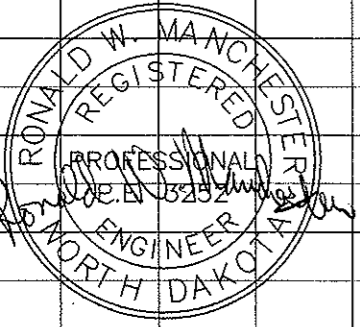
TWO WORKING DAYS BEFORE YOU DIG-DRILL-BLAST IN NORTH DAKOTA - CALL TOLL FREE **1-800-795-0555** UTILITIES UNDERGROUND LOCATION CENTER



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



**AS-BUILT**  
 DATE: 05-10



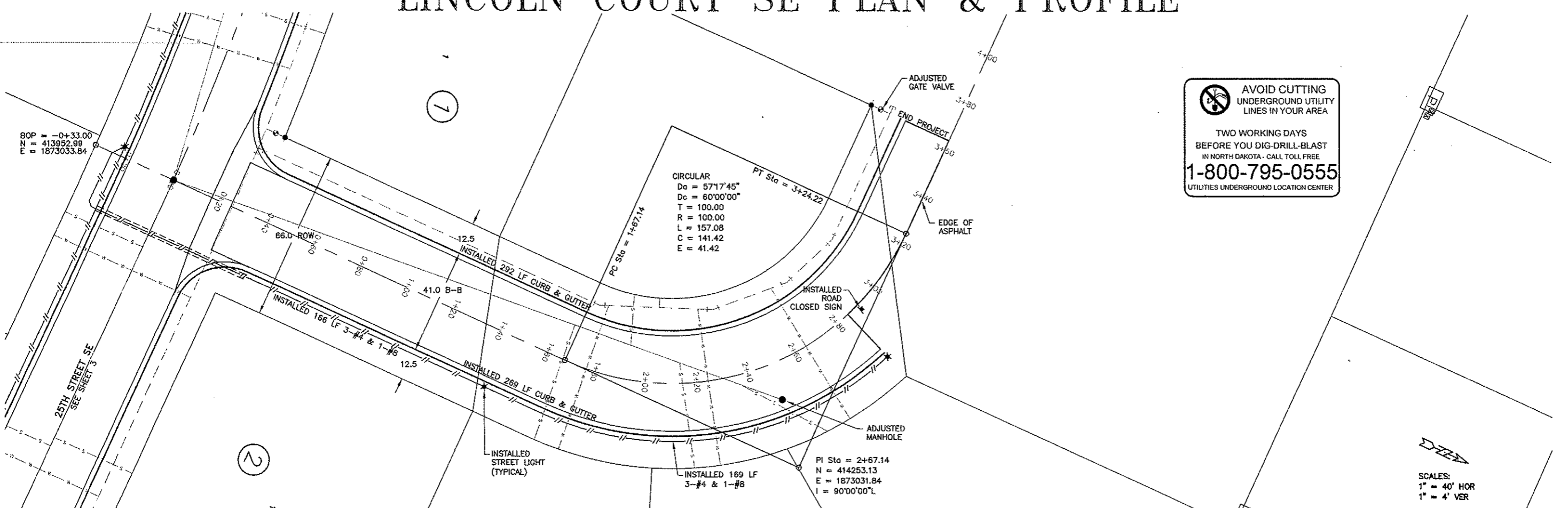
**TOMAN ENGINEERING COMPANY**  
 CONSULTING CIVIL ENGINEERS  
 801 1ST ST. N.W. • WABSA, NORTH DAKOTA 58564 • (701) 665-4465

PROJECT: STREET IMPROVEMENT DIST. NO. 138 - AREA "G"  
 STREET RIDGE ESTATES 3RD & 4TH ADDITION  
 LINCOLN COURT SE  
 25TH STREET SE PLAN & PROFILE

NO.	REVISIONS	BY	DATE	REVISED BY	DATE
1	EXTEND LINCOLN COURT SE	AM	8/08	AM	8/07
2	AS-BUILT	MS	5/10	MS	5/10

SHEET NUMBER **3**  
 OF 8 SHEETS

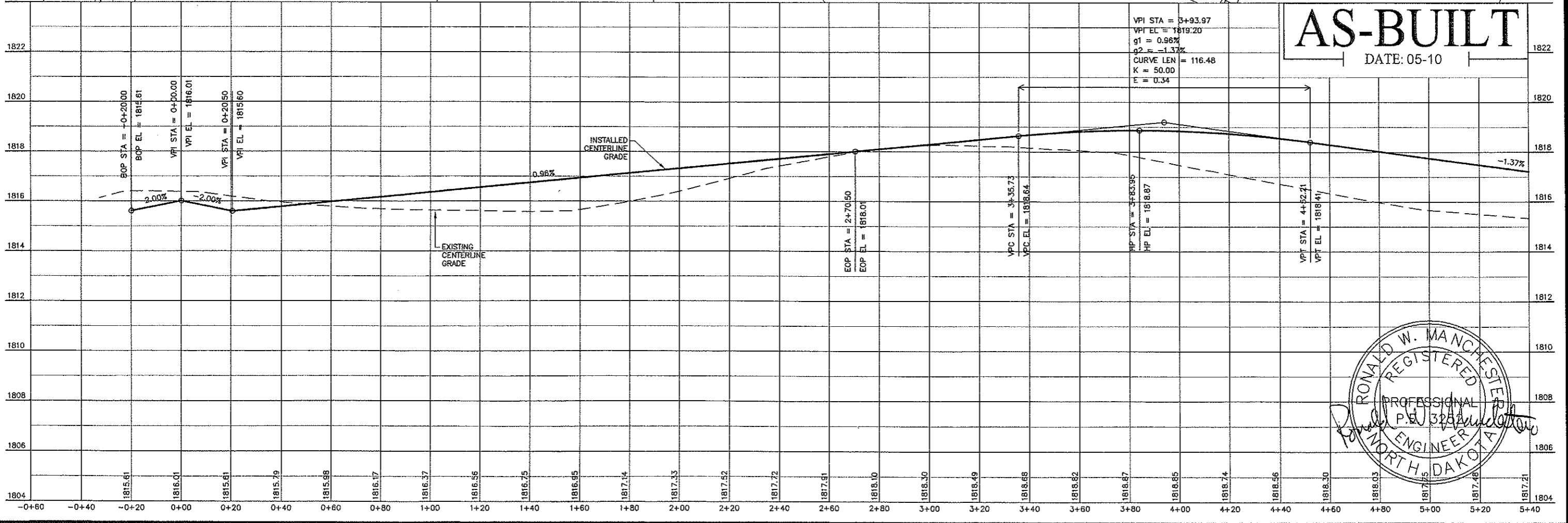
# LINCOLN COURT SE PLAN & PROFILE



**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

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



**AS-BUILT**  
DATE: 05-10

TOMAN ENGINEERING COMPANY  
CONSULTING CIVIL ENGINEERS  
501 1ST ST. N.W. • BANDA, NORTH DAKOTA 58547 (701) 685-6483

PROJECT: STREET IMPROVEMENT DIST. NO. 138 - AREA "G"  
STREET IMP. DISTRICT NO. 138 - AREA "G"  
LINCOLN RIDGE ESTATES 3RD & 4TH ADDITION  
LINCOLN COURT SE PLAN & PROFILE

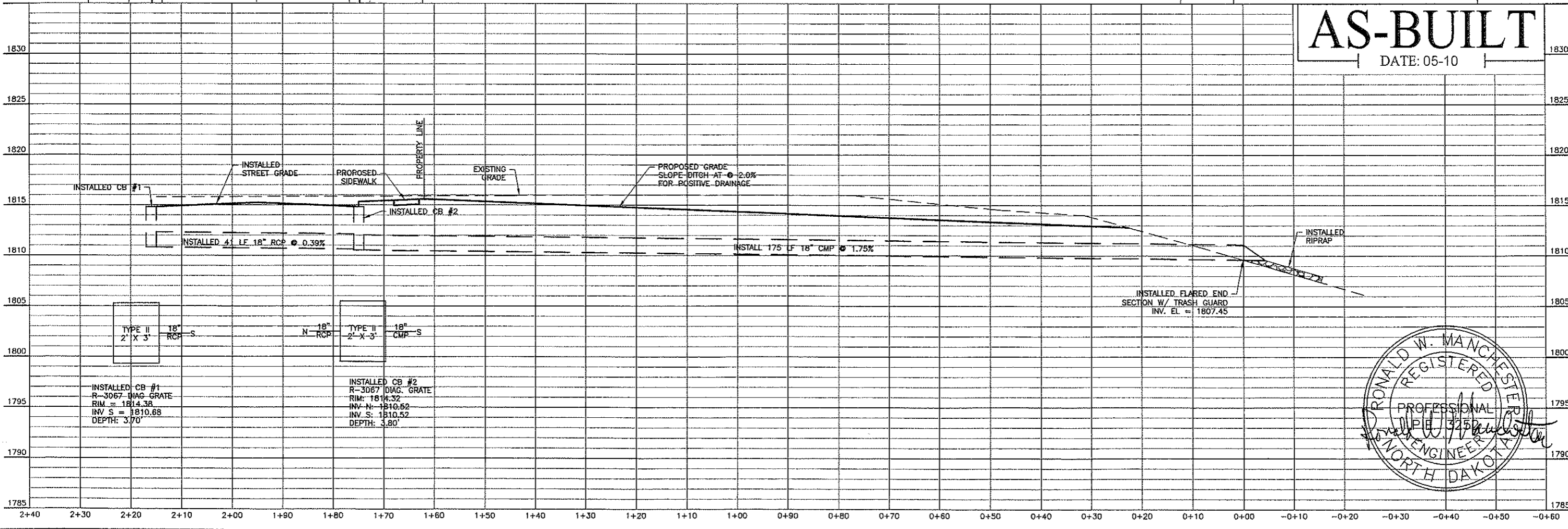
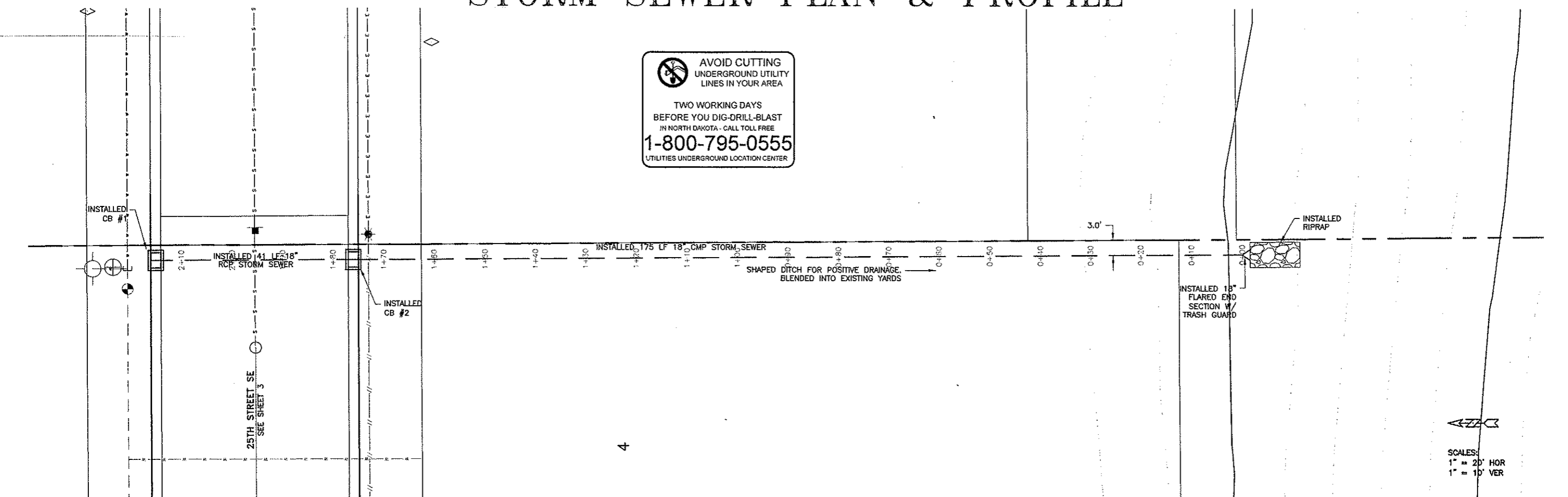
NO.	DATE	BY	REVISIONS
1	AM 8/08	AM	EXTEND LINCOLN COURT SE
2	MS 5/10	MS	AS-BUILTS

SHEET NUMBER  
**4**  
OF 8 SHEETS

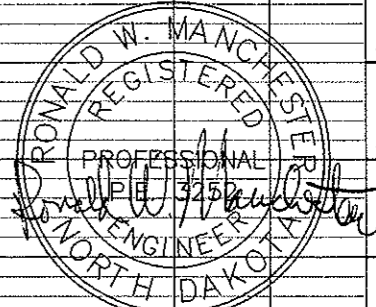
# STORM SEWER PLAN & PROFILE

**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



**AS-BUILT**  
DATE: 05-10



**TOMAN ENGINEERING COMPANY**  
CONSULTING CIVIL ENGINEERS  
901 1ST ST. N.W. • WARD, NORTH DAKOTA 58544 • (701) 883-4483

**PROJECT:** STREET IMPROVEMENT DIST. NO. 138 - AREA "G"  
STREET IMP. DISTRICT NO. 138 - AREA "G"  
LINCOLN RIDGE ESTATES 3RD & 4TH ADDITION  
STORM SEWER PLAN & PROFILE

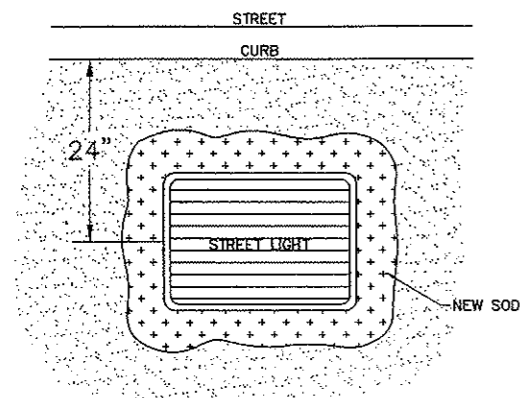
NO.	DATE	BY	CHKD	APP'D	DATE
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2	15/10	MS	MS	MS	15/10

**REVISIONS:**  
EXTEND LINCOLN COURT SE  
ASBUILT

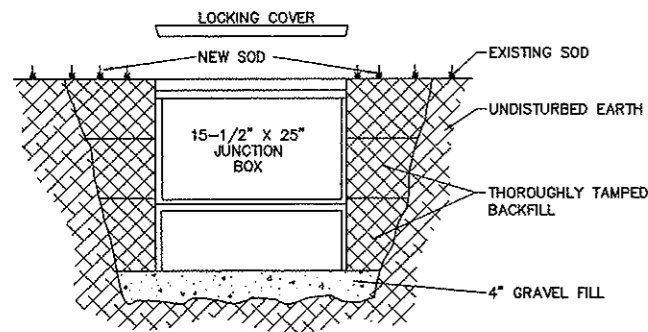
**SHEET NUMBER**  
5  
OF 8 SHEETS

# STREET LIGHT DETAILS

NO SCALE

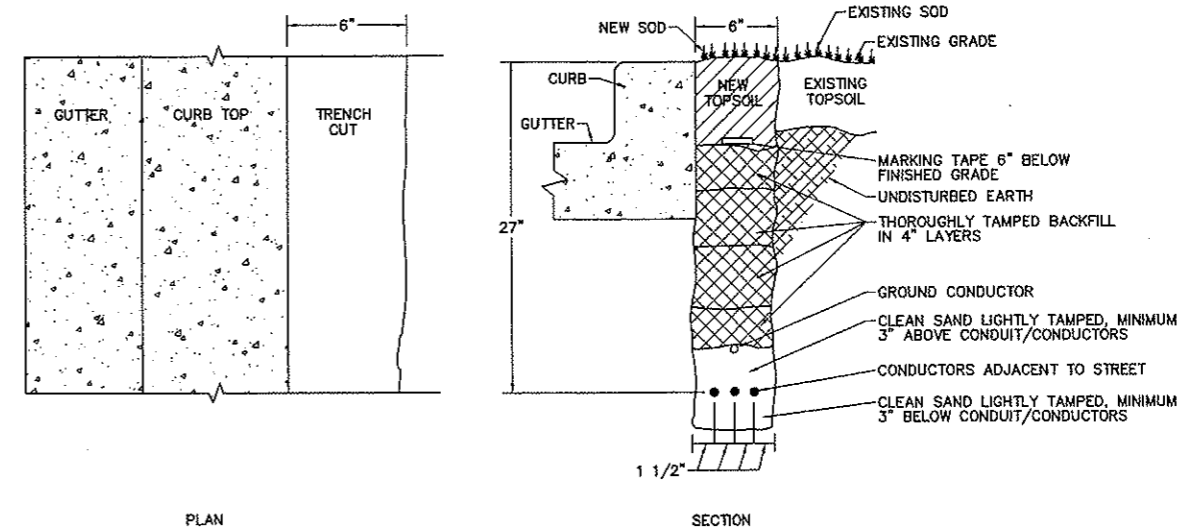
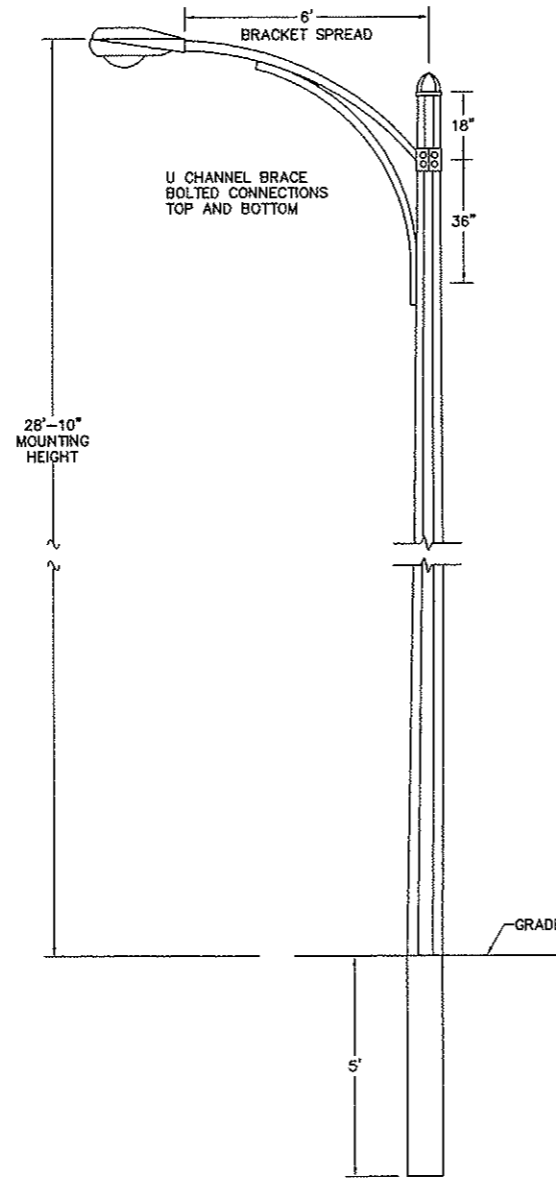


PLAN VIEW



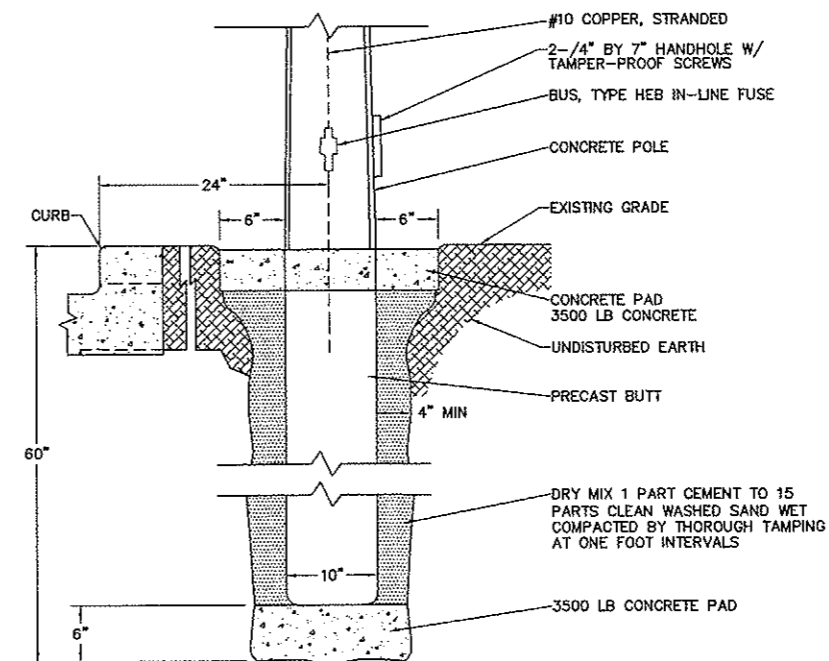
SECTION  
\* PROVIDE MOUSE HOLES AS REQUIRED FOR EXISTING AND NEW CONDUCTORS

JUNCTION BOX DETAIL



UNDERGROUND CABLE INSTALLATION

**AS-BUILT**  
DATE: 05-10



SECTION

TYPE B & B1 BASE DETAIL

 **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:\P\projects\100012212165-A\_AS-BUILT-Sub-St. Light Detail.dwg, 5/11/2010 3:22:46 PM, 1:2

**TOMAN ENGINEERING COMPANY**  
CONSULTING CIVIL ENGINEERS  
501 1ST ST. N.E. • MINNAPOLIS, NORTH DAKOTA 58541 (701) 663-6463

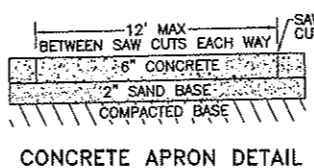
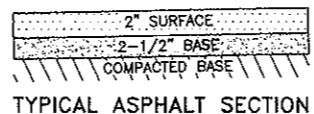
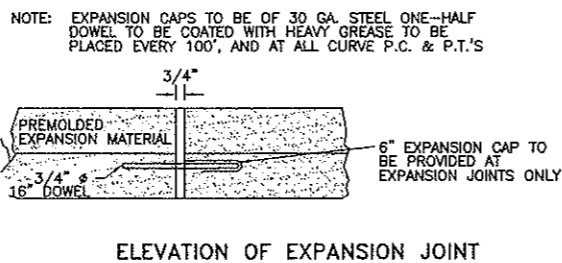
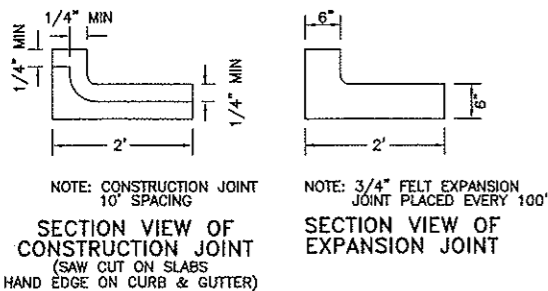
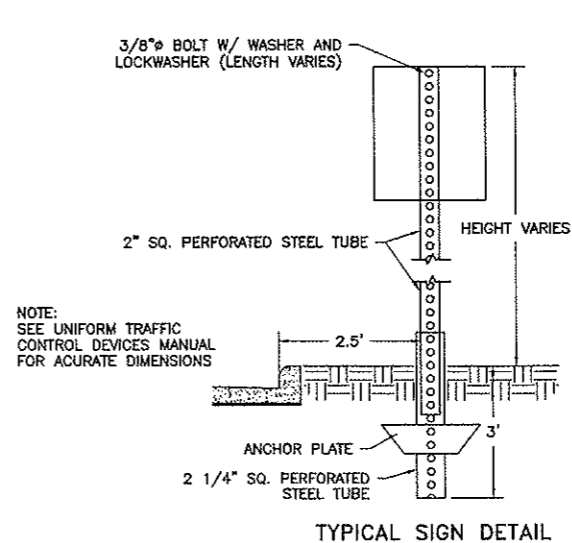
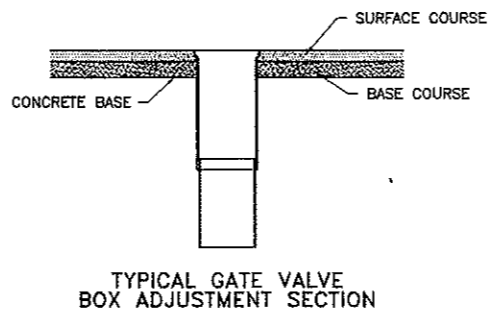
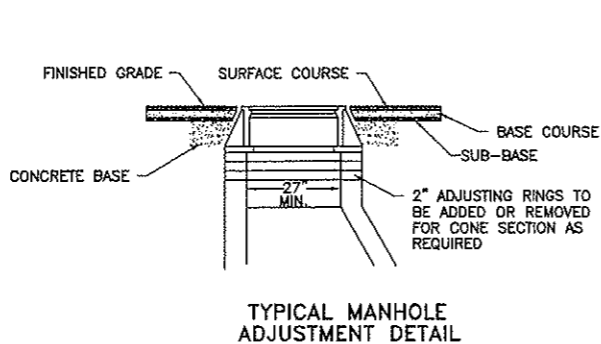
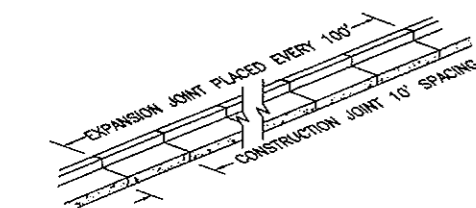
PROJECT:  
STREET IMP. DIST. NO. 138 - AREA "C"  
LINCOLN RIDGE ESTATES 3RD & 4TH ADDITION  
STREET LIGHT DETAILS

NO.	REVISIONS	DATE	BY	DATE	BY	DATE	BY
1	EXTEND LINCOLN COURT SE	AM	B/OB	AM	B/OB	AM	B/OB
2	AS-BUILTS	MS	5/10	MS	5/10	MS	5/10

SHEET NUMBER  
**6**  
OF 8 SHEETS

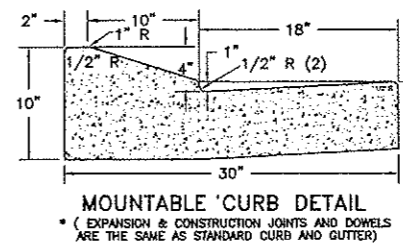
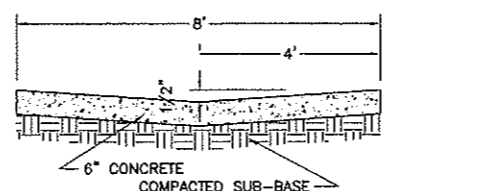
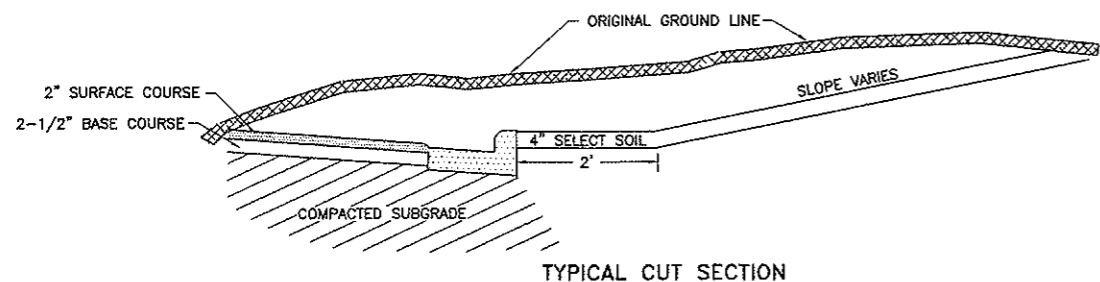
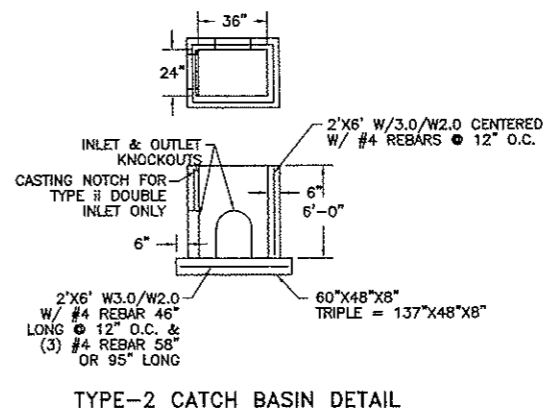
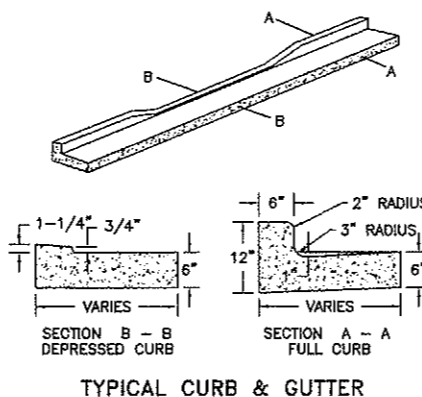
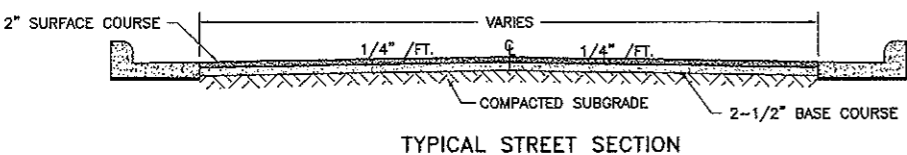
# DETAIL SHEET

## NO SCALE

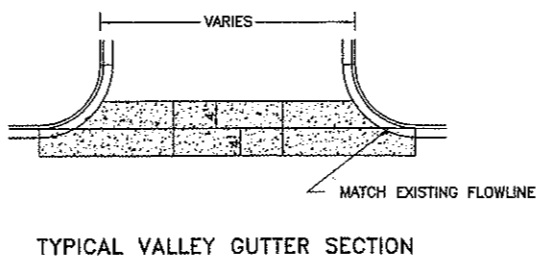
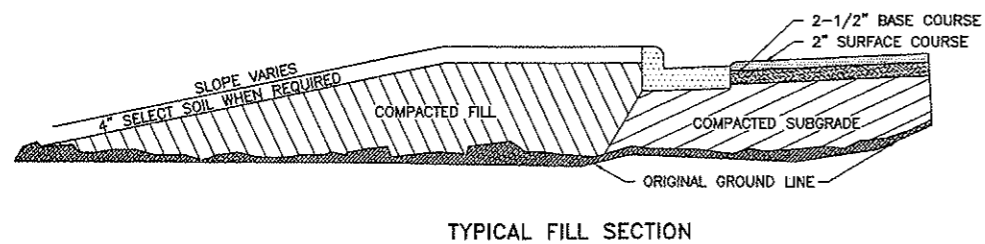


MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

SIGN	MUTCD CODE
STREET NAME SIGN	D3-1 (8" SIGN, 6" CAPITAL LETTERS)
ROAD CLOSED SIGN	R11-2, 48"x30"



**AS-BUILT**  
DATE: 05-10



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

RONALD W. MANCHESTER  
REGISTERED PROFESSIONAL ENGINEER  
NORTH DAKOTA

H:\Projects\100012212165-A\_ASB07-Asb-Detail.dwg, 5/12/2010 2:14:45 PM, 1:2

TOMAN ENGINEERING COMPANY  
CONSULTING CIVIL ENGINEERS  
901 1ST ST. N.E. • MADISON, NORTH DAKOTA 58554 • (701) 663-4483

PROJECT: STREET IMP. DIST. NO. 138 - AREA "G" STREET ESTATES 3RD & 4TH ADDITION LINCOLN RIDGE DETAIL SHEET

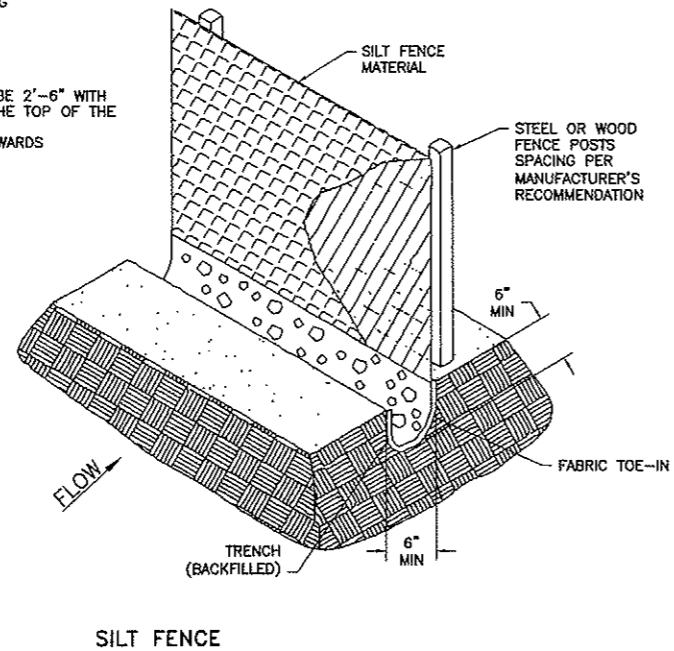
TITLE: STREET IMPROVEMENT DIST. NO. 138 - AREA "G"	DATE: 05-10	BY: MS	CHECKED: MS	APPROVED: [Signature]
NO. 1	DATE: 8/08	BY: AM	CHECKED: MS	APPROVED: [Signature]
NO. 2	DATE: 5/10	BY: MS	CHECKED: MS	APPROVED: [Signature]

SHEET NUMBER 7 OF 8 SHEETS

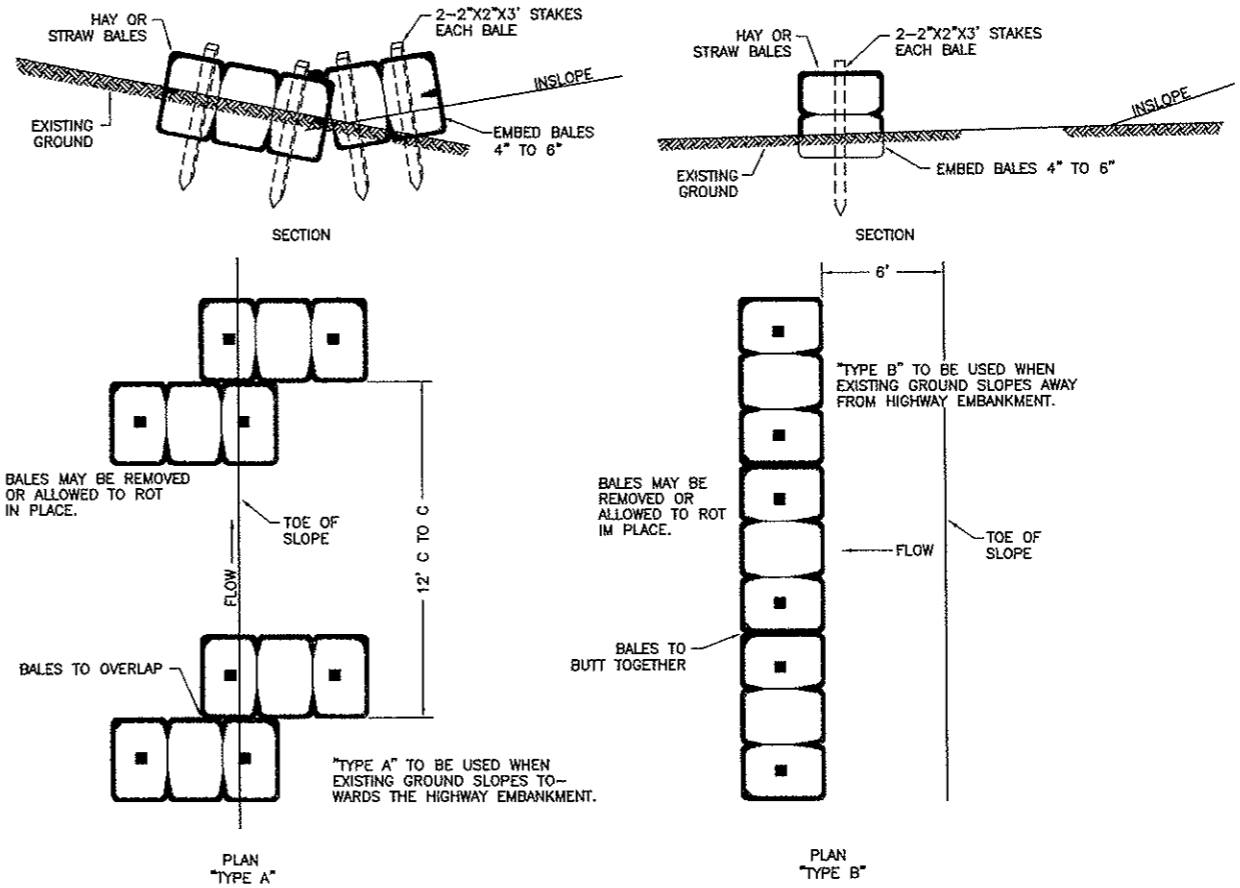
# EROSION CONTROL DETAILS

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

**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

**AS-BUILT**  
 DATE: 05-10



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**TOMAN ENGINEERING COMPANY**  
 CONSULTING CIVIL ENGINEERS  
 938 2ND ST. N.W. • MINNAPOLIS, NORTH DAKOTA 58604 • (701) 683-4465

PROJECT: STREET IMP. DIST. NO. 138 - AREA "G"  
 LINCOLN RIDGE ESTATES 3RD & 4TH ADDITION  
 EROSION CONTROL DETAILS

TITLE: STREET IMPROVEMENT DIST. NO. 138 - AREA "G"		DATE	BY
NO.	REVISIONS	DATE	BY
1	EXTEND LINCOLN COURT SE	8/08	AM
2	ASBUILTS	8/10	MS

SHEET NUMBER  
8  
 OF 8 SHEETS