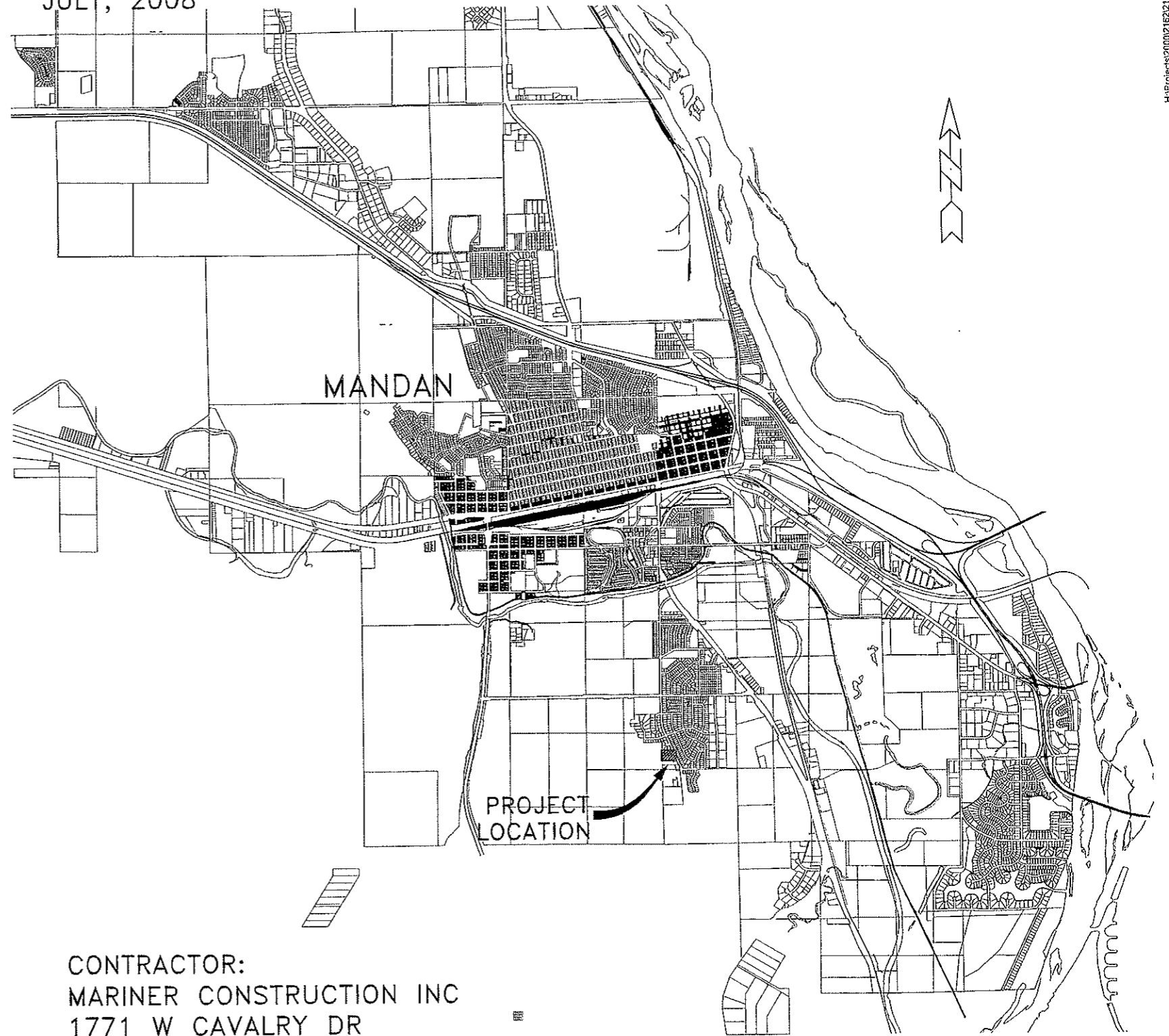


# STREET IMPROVEMENT DISTRICT NO. 151 AS-BUILT VOLK HILLS ESTATES & BENDER ADDITION MANDAN, NORTH DAKOTA

CITY PROJECT NO. 2007-23  
JULY, 2008

## INDEX OF AS-BUILT DRAWINGS

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7	CROSS SECTIONS STA. 2+60 - 4+00	
8	CROSS SECTIONS STA. 4+20	



PREPARED BY:  
TOMAN ENGINEERING

*Ronald Manchester*

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

RONALD MANCHESTER R.P.E. 3252



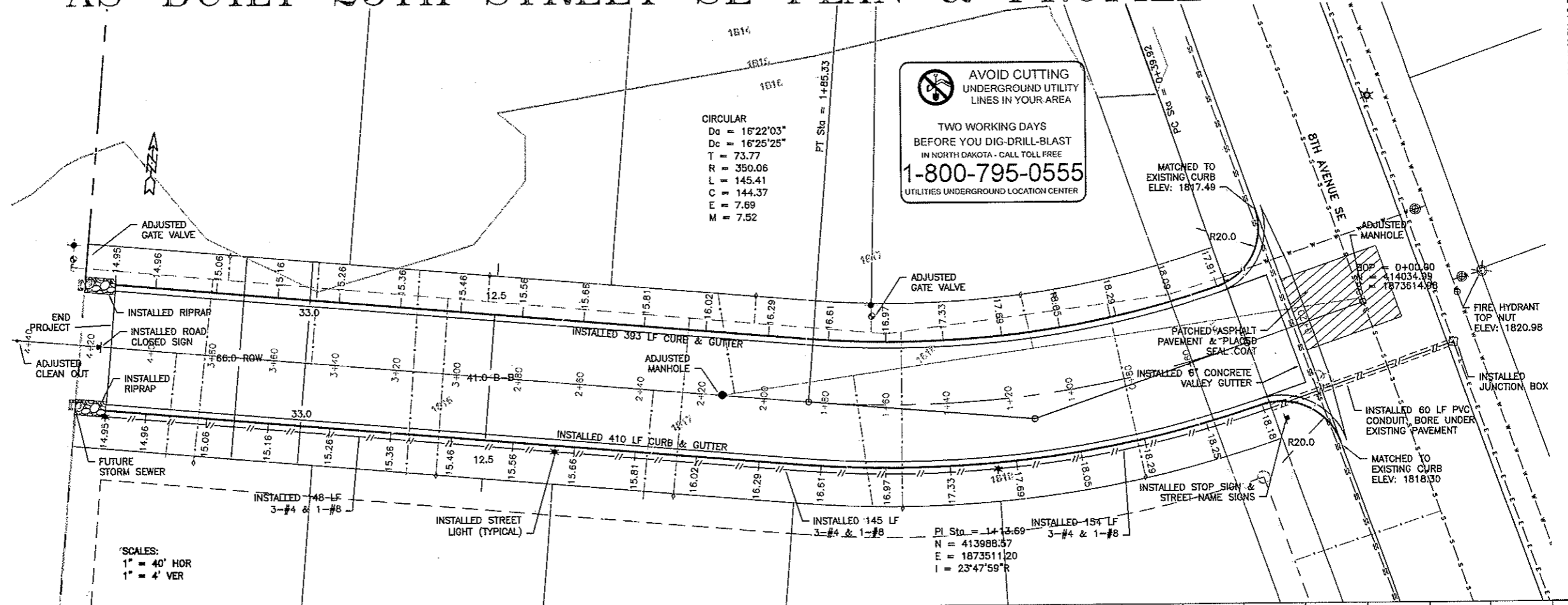
CONTRACTOR:  
MARINER CONSTRUCTION INC  
1771 W CAVALRY DR  
BISMARCK, ND 58504  
PHONE: (701)258-3925



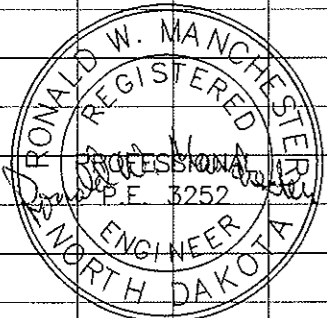
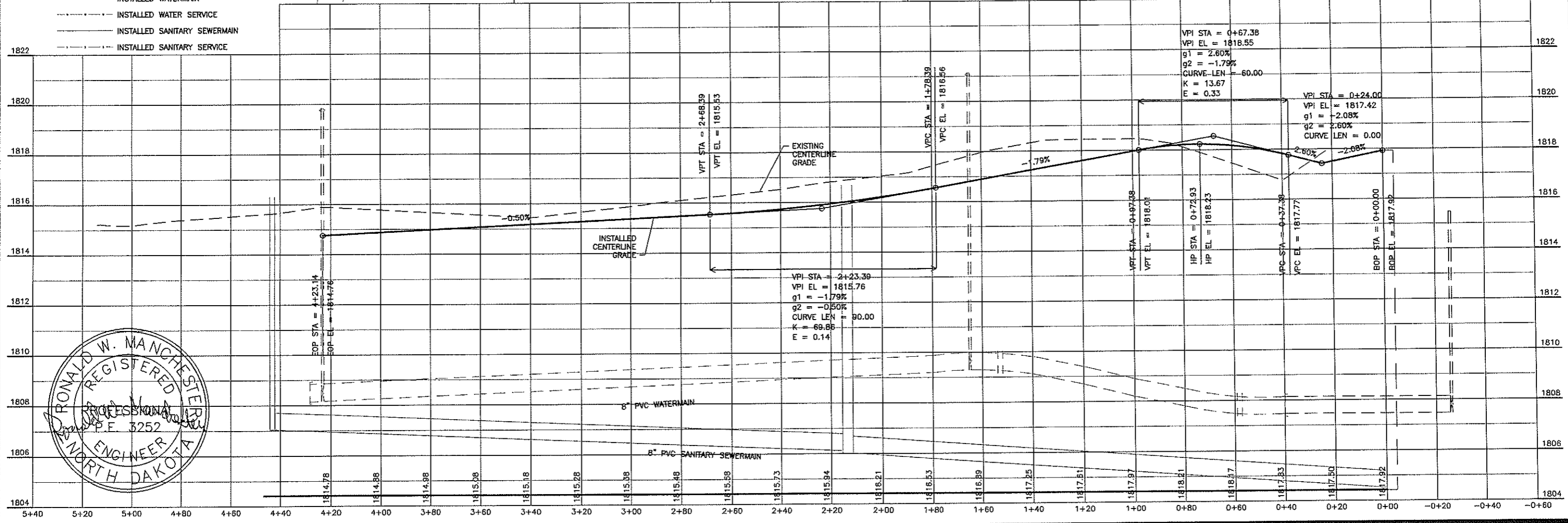
TOMAN ENGINEERING COMPANY  
CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS  
501 1ST ST. N.W. • MANDAN, NORTH DAKOTA 58554 • 701-663-8463

# AS-BUILT 25TH STREET SE PLAN & PROFILE

- 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
  - EXISTING SANITARY SEWERMAIN
  - EXISTING WATERMAIN
  - EXISTING OVERHEAD POWER LINE
  - EXISTING UNDERGROUND ELECTRIC
  - EXISTING CURB & GUTTER
  - EXISTING STORM SEWER
  - EXISTING GAS LINE
  - EXISTING TELEPHONE CABLE
  - EXISTING UNDERGROUND ELECTRIC
  - INSTALLED FIRE HYDRANT
  - INSTALLED GATE VALVE
  - INSTALLED STREET SIGN
  - INSTALLED STREET LIGHT
  - INSTALLED JUNCTION BOX
  - INSTALLED UNDERGROUND ELECTRIC
  - INSTALLED CURB & GUTTER
  - INSTALLED WATERMAIN
  - INSTALLED WATER SERVICE
  - INSTALLED SANITARY SEWERMAIN
  - INSTALLED SANITARY SERVICE



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



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 901 15th St. N.W. • WANDU, NORTH DAKOTA 58554 • (701) 663-6483

**PROJECT:** STREET IMP. DISTRICT NO. 151  
 VOLK HILLS ESTATES & BENDER ADDITION  
 AS-BUILT 25TH STREET SE PLAN & PROFILE

NO.	DATE	BY	REVISIONS
1	08/07	AM	DATE
2			
3			


**SHEET NUMBER**  
 2  
 OF 8 SHEETS

# AS-BUILT DETAIL SHEET

## NO SCALE

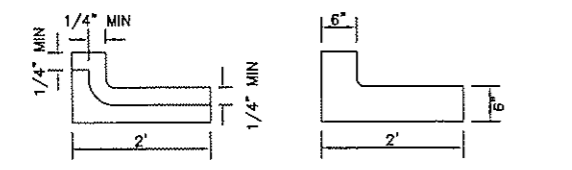
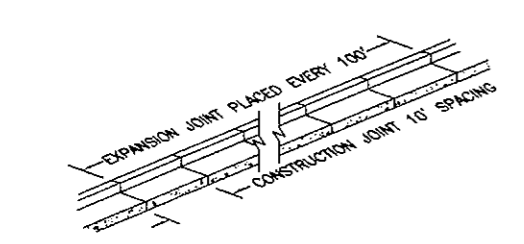

**AVOID CUTTING UNDERGROUND UTILITY LINES IN YOUR AREA**  
 TWO WORKING DAYS BEFORE YOU DIG-DRILL-BLAST IN NORTH DAKOTA - CALL TOLL FREE  
**1-800-795-0555**  
 UTILITIES UNDERGROUND LOCATION CENTER

H:\Projects\300002162\162 Details.dwg, 3/23/2009 2:41:39 PM, 1:2, PEB

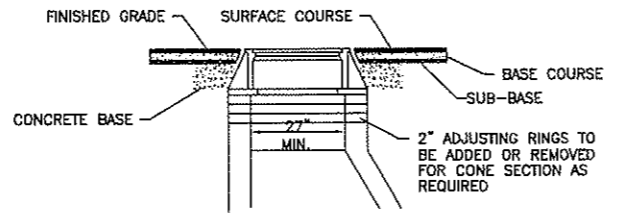
**TOMAN ENGINEERING COMPANY**  
 CONSULTING CIVIL ENGINEERS  
 507 1ST ST. N.W. \* MADISON, NORTH DAKOTA 58554 \* (701) 665-9465  


PROJECT: STREET IMPROVEMENT DIST. NO. 151  
 VOLK HILLS ESTATES & BENDER ADDITION  
 AS-BUILT DETAIL SHEET

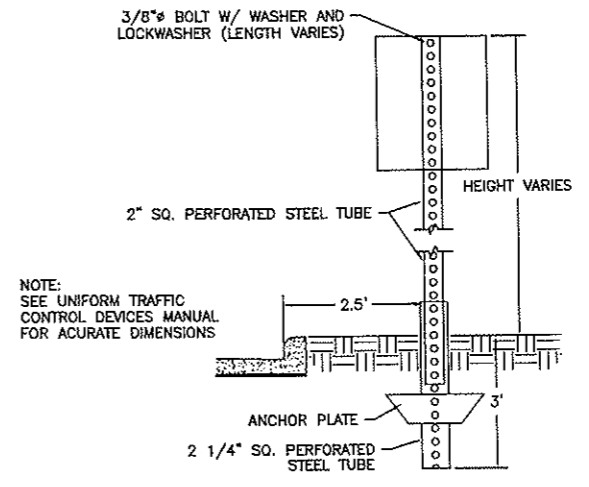
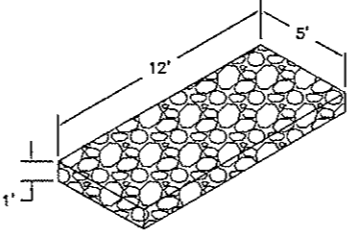
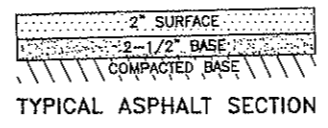
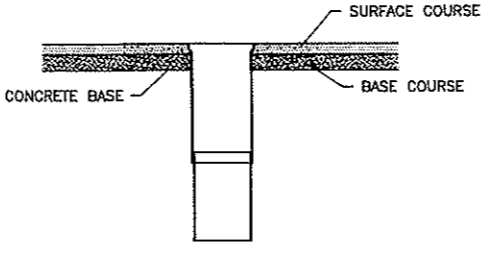
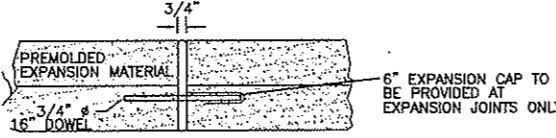
TITLE: STREET IMPROVEMENT DIST. NO. 151	REV. NO. 2162
NO. REVISIONS	DATE
BY	DATE
BY	DATE
BY	DATE



NOTE: CONSTRUCTION JOINT 10' SPACING  
 NOTE: 3/4" FELT EXPANSION JOINT PLACED EVERY 100'



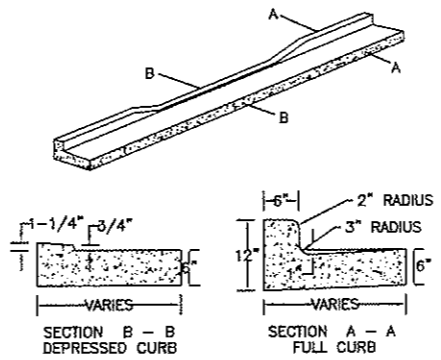
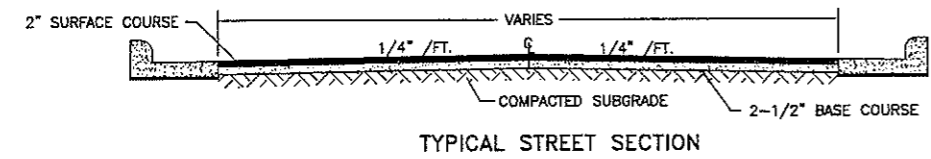
NOTE: EXPANSION CAPS TO BE OF 30 GA. STEEL ONE-HALF DOWEL TO BE COATED WITH HEAVY GREASE TO BE PLACED EVERY 100', AND AT ALL CURVE P.C. & P.T.'S



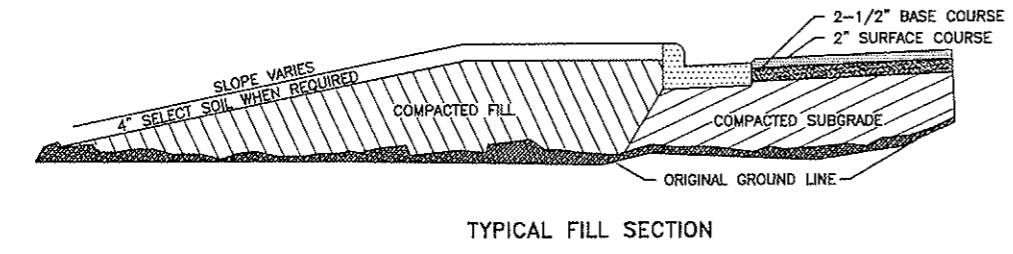
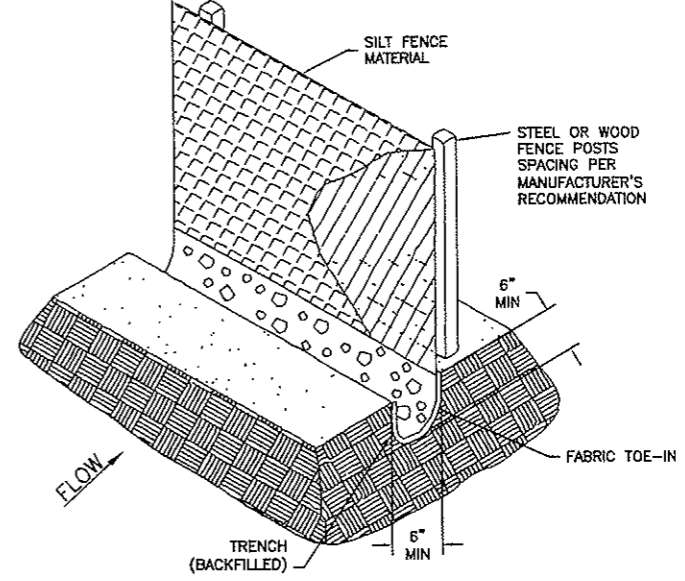
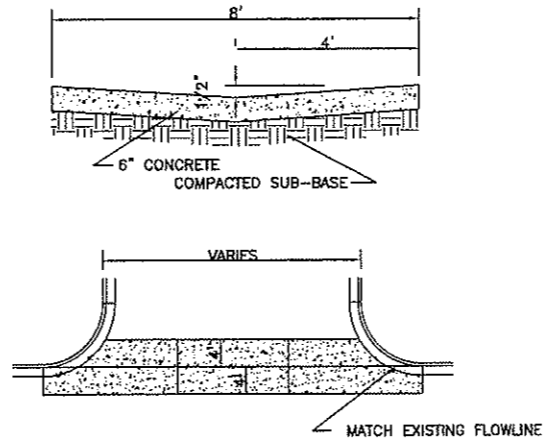
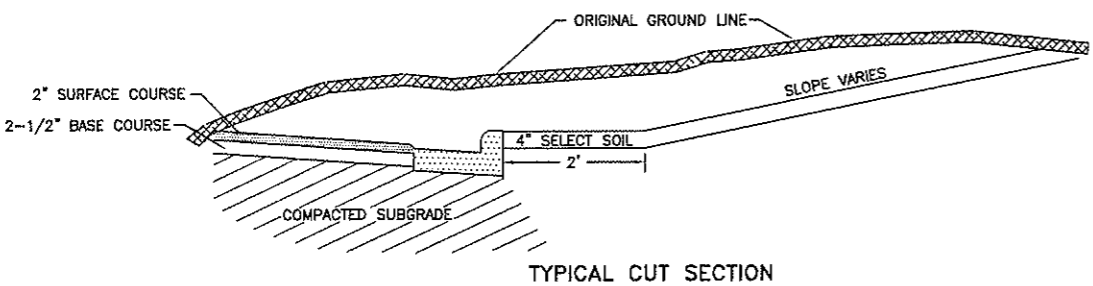
NOTE: SEE UNIFORM TRAFFIC CONTROL DEVICES MANUAL FOR ACCURATE DIMENSIONS

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

SIGN	MUTCD CODE
STOP SIGN	R1-1, 30"x30"
STREET NAME SIGN	D3-1 (8" SIGN, 6" CAPITAL LETTERS) STREET NAME: 8TH AVENUE SE 25TH STREET SE
ROAD CLOSED SIGN	R11-2, 48"x30"

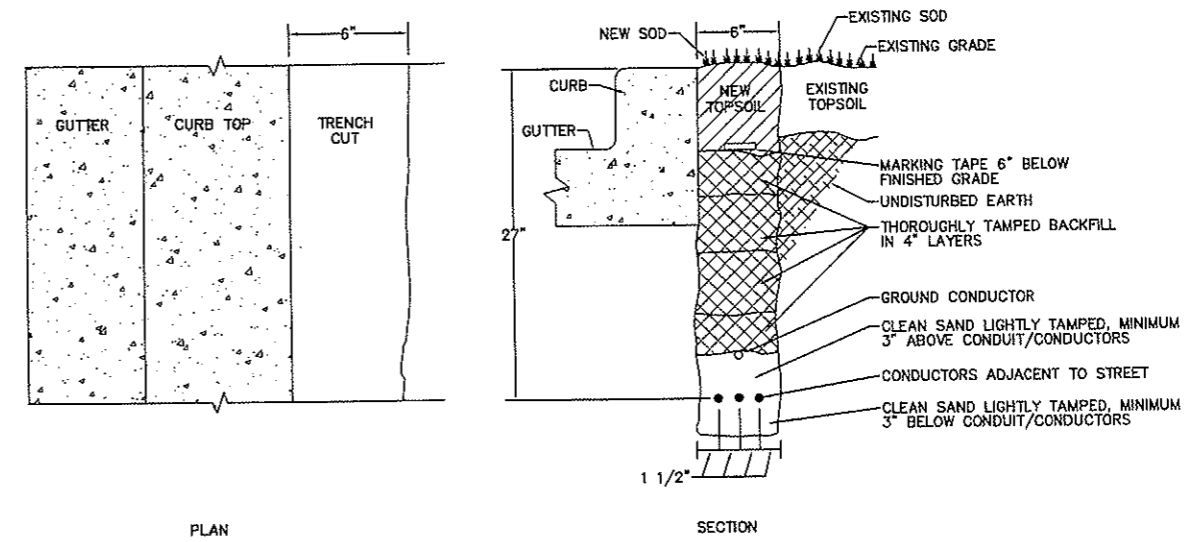
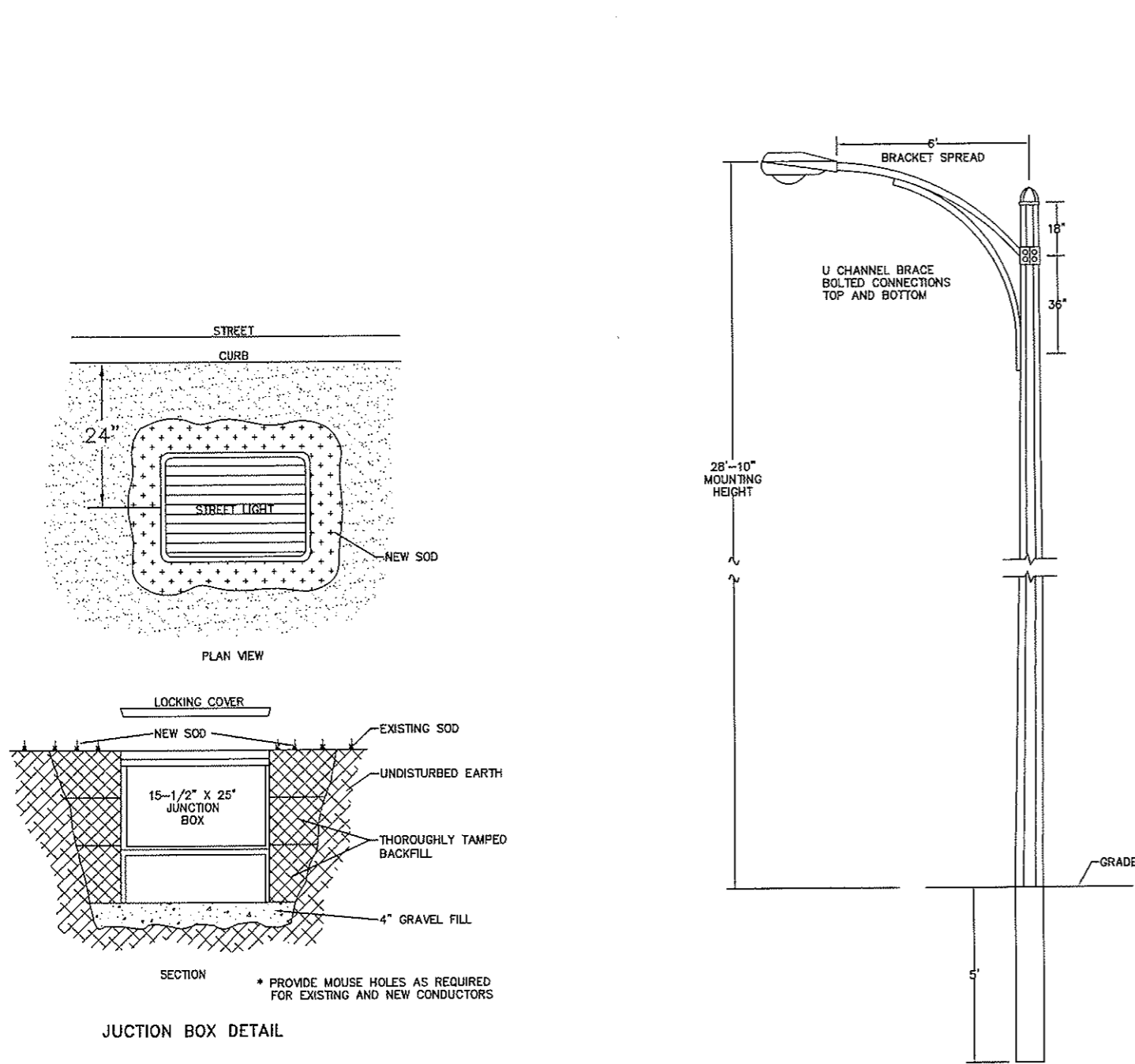


- NOTES:
- SILT FENCE FABRIC SHALL BE ONE OF THE FOLLOWING:  
 A. BURLAP: AASHTO M182  
 B. POLYPROPYLENE FABRIC: ASTM D4397  
 C. NYLON NETTING REINFORCED FABRIC  
 D. PREMANUFACTURED SILT FENCE MEETING EQUAL PROPERTIES OF ABOVE.
  - SILT FENCE FABRIC SHALL HAVE A MINIMUM BURSTING STRENGTH 150 PSI
  - SILT FENCE FABRIC SHALL HAVE EDGES TREATED TO PREVENT UNRAVELING.
  - 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.
  - INSTALL THE POSTS ON SLIGHT ANGLE TOWARDS THE ANTICIPATED RUNOFF SURFACE.

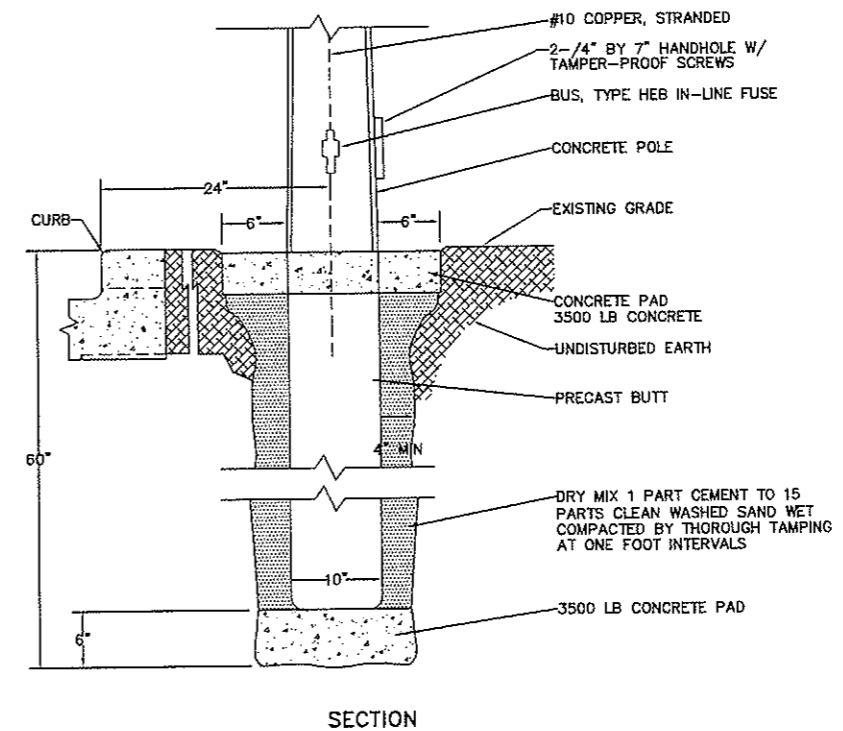


# AS-BUILT STREET LIGHT DETAILS

NO SCALE



UNDERGROUND CABLE INSTALLATION



TYPE B & B1 BASE DETAIL

AVOID CUTTING UNDERGROUND UTILITY LINES IN YOUR AREA

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501 1ST ST. N.W. • BISMARCK, NORTH DAKOTA 58504 • (701) 663-6483

PROJECT: STREET IMP. DISTRICT NO. 151  
VOLK HILLS ESTATES & BENDER ADDITION  
AS-BUILT STREET LIGHT DETAILS

NO.	DATE	BY	REVISIONS

SHEET NUMBER  
4  
OF 8 SHEETS