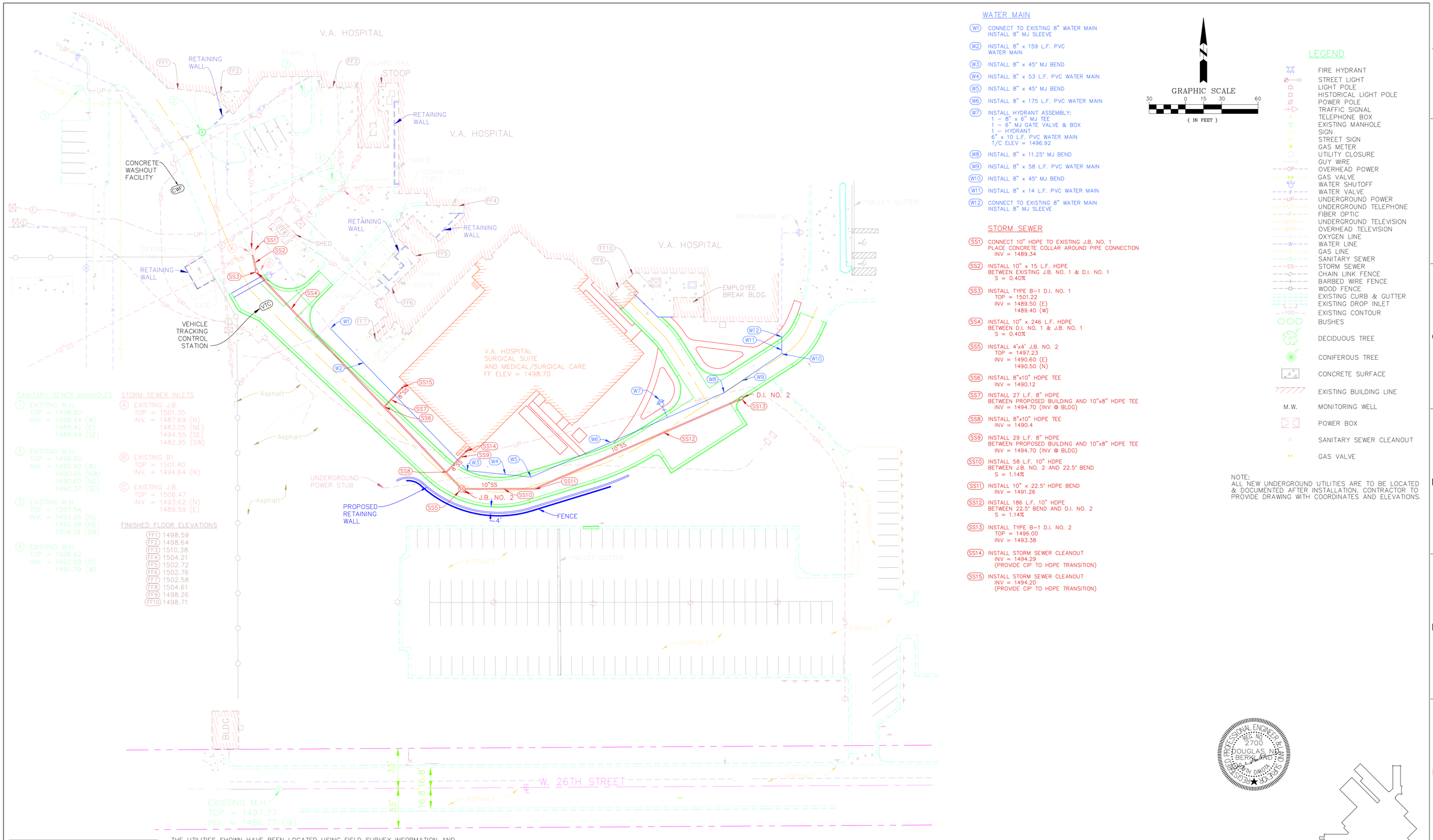

SANITARY SEWER MANHOLES

1 EXISTING M.H.
TOP = 1498.80
INV. = 1488.44 (W)
1488.42 (E)
1488.44 (SE)

2 EXISTING M.H.
TOP = 1498.60
INV. = 1490.40 (W)
1490.94 (NW)
1490.60 (NE)
1490.37 (SE)

3 EXISTING M.H.
TOP = 1507.54
INV. = 1493.06 (N)
1492.98 (NE)
1504.18 (SW)

4 EXISTING M.H.
TOP = 1506.62
INV. = 1492.99 (N)
1492.79 (W)

STORM SEWER INLETS

A EXISTING J.B.
TOP = 1501.35
INV. = 1487.69 (N)
1483.05 (NE)
1494.55 (SE)
1482.95 (SW)

B EXISTING B1
TOP = 1501.40
INV. = 1494.64 (N)

C EXISTING J.B.
TOP = 1506.47
INV. = 1493.62 (N)
1489.59 (E)

FINISHED FLOOR ELEVATIONS

FF1 1498.59
FF2 1498.64
FF3 1510.38
FF4 1504.21
FF5 1502.72
FF6 1502.76
FF7 1502.58
FF8 1504.61
FF9 1498.26
FF10 1498.71

BENCHMARK #1
TOP OF FIRE HYDRANT @ SE SIDE OF SITE NORTH SIDE OF PRIVATE DRIVE
ELEV. = 1504.81
NAVD 88 DATUM

BENCHMARK #2
TOP OF FIRE HYDRANT @ E. SIDE OF SITE WEST SIDE OF PRIVATE DRIVE
ELEV. = 1498.72
NAVD 88 DATUM

THE UTILITIES SHOWN HAVE BEEN LOCATED USING FIELD SURVEY INFORMATION AND RECORDS MADE AVAILABLE TO US BY THE CITY OF SIOUX FALLS, THE V.A. HOSPITAL AND THE RESPECTIVE UTILITY COMPANIES AT THE TIME THIS SITE PLAN WAS BEING PREPARED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE EXACT LOCATION OF UNDERGROUND UTILITIES MUST BE VERIFIED BY THE CITY OF SIOUX FALLS OR PRIVATE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION BY CALLING THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER AT 1-800-781-7474.

WATER MAIN

W1 CONNECT TO EXISTING 8" WATER MAIN
INSTALL 8" MJ SLEEVE

W2 INSTALL 8" x 159 L.F. PVC WATER MAIN

W3 INSTALL 8" x 45° MJ BEND

W4 INSTALL 8" x 53 L.F. PVC WATER MAIN

W5 INSTALL 8" x 45° MJ BEND

W6 INSTALL 8" x 175 L.F. PVC WATER MAIN

W7 INSTALL HYDRANT ASSEMBLY:
1 - 8" x 6" MJ TEE
1 - 6" MJ GATE VALVE & BOX
1 - HYDRANT
6" x 10 L.F. PVC WATER MAIN
T/C ELEV = 1496.92

W8 INSTALL 8" x 11.25° MJ BEND

W9 INSTALL 8" x 58 L.F. PVC WATER MAIN

W10 INSTALL 8" x 45° MJ BEND

W11 INSTALL 8" x 14 L.F. PVC WATER MAIN

W12 CONNECT TO EXISTING 8" WATER MAIN
INSTALL 8" MJ SLEEVE

STORM SEWER

SS1 CONNECT 10" HDPE TO EXISTING J.B. NO. 1
PLACE CONCRETE COLLAR AROUND PIPE CONNECTION
INV = 1489.34

SS2 INSTALL 10" x 15 L.F. HDPE
BETWEEN EXISTING J.B. NO. 1 & D.I. NO. 1
S = 0.40%

SS3 INSTALL TYPE B-1 D.I. NO. 1
TOP = 1501.22
INV = 1489.50 (E)
1489.40 (W)

SS4 INSTALL 10" x 246 L.F. HDPE
BETWEEN D.I. NO. 1 & J.B. NO. 1
S = 0.40%

SS5 INSTALL 4'x4' J.B. NO. 2
TOP = 1497.23
INV = 1490.60 (E)
1490.50 (N)

SS6 INSTALL 8"x10" HDPE TEE
INV = 1490.12

SS7 INSTALL 27 L.F. 8" HDPE
BETWEEN PROPOSED BUILDING AND 10"x8" HDPE TEE
INV = 1494.70 (INV @ BLDG)

SS8 INSTALL 8"x10" HDPE TEE
INV = 1490.4

SS9 INSTALL 29 L.F. 8" HDPE
BETWEEN PROPOSED BUILDING AND 10"x8" HDPE TEE
INV = 1494.70 (INV @ BLDG)

SS10 INSTALL 58 L.F. 10" HDPE
BETWEEN J.B. NO. 2 AND 22.5° BEND
S = 1.14%

SS11 INSTALL 10" x 22.5° HDPE BEND
INV = 1491.26

SS12 INSTALL 186 L.F. 10" HDPE
BETWEEN 22.5° BEND AND D.I. NO. 2
S = 1.14%

SS13 INSTALL TYPE B-1 D.I. NO. 2
TOP = 1496.00
INV = 1493.38

SS14 INSTALL STORM SEWER CLEANOUT
INV = 1494.29
(PROVIDE CIP TO HDPE TRANSITION)

SS15 INSTALL STORM SEWER CLEANOUT
INV = 1494.20
(PROVIDE CIP TO HDPE TRANSITION)

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)

LEGEND

FIRE HYDRANT
STREET LIGHT
LIGHT POLE
HISTORICAL LIGHT POLE
POWER POLE
TRAFFIC SIGNAL
TELEPHONE BOX
EXISTING MANHOLE
SIGN
STREET SIGN
GAS METER
UTILITY CLOSURE
GUY WIRE
OVERHEAD POWER
GAS VALVE
WATER SHUTOFF
WATER VALVE
UNDERGROUND POWER
UNDERGROUND TELEPHONE
FIBER OPTIC
UNDERGROUND TELEVISION
OVERHEAD TELEVISION
OXYGEN LINE
WATER LINE
GAS LINE
SANITARY SEWER
STORM SEWER
CHAIN LINK FENCE
BARBED WIRE FENCE
WOOD FENCE
EXISTING CURB & GUTTER
EXISTING DROP INLET
EXISTING CONTOUR
BUSHES
DECIDUOUS TREE
CONIFEROUS TREE
CONCRETE SURFACE
EXISTING BUILDING LINE
M.W. MONITORING WELL
POWER BOX
SANITARY SEWER CLEANOUT
GAS VALVE

NOTE:
ALL NEW UNDERGROUND UTILITIES ARE TO BE LOCATED & DOCUMENTED AFTER INSTALLATION. CONTRACTOR TO PROVIDE DRAWING WITH COORDINATES AND ELEVATIONS.

PROFESSIONAL ENGINEER REG. NO. 2700 DOUGLAS N. BERKLAND JR. NORTH DAKOTA

TRUE NORTH
PROJECT NORTH

100% FINAL
FULLY SPRINKLERED

Revision Schedule

Revision Number	Revision Date

CONSULTANTS:

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ARCHITECT/ENGINEERS/COST ESTIMATORS:

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Kansas City, MO 64108
816 561 4443

Ellerbe Becket, Inc.
Ellerbe Becket Architects and Engineers, Inc.
Ellerbe Becket Architects and Engineers
2009

Drawing Title: **UTILITY PLAN**
Approved: Project Director

Project Title: **RECONSTRUCT ROAD**
Location: **SIOUX FALLS, SD**
Date: **10/26/12**
Checked: **DNB**
Drawn: **JNH**

Project Number: **438-13-102**
Building Number:
Drawing Number:
Dwg. **7** of **17**

Construction & Facilities Management CFM
Department of Veterans Affairs