

- Proposed Little Muddy Pipeline
- Existing Enbridge Pipelines
- Route Maps

DRAWN	CHECKED	APPROVED	DATE	REV. NO.	DESCRIPTION
MW	MJ	MJ	10/18/11	B	REISSUED FOR ND-PSC FILING
MW	MJ	MJ	9/20/11	A	ND-PSC FILING

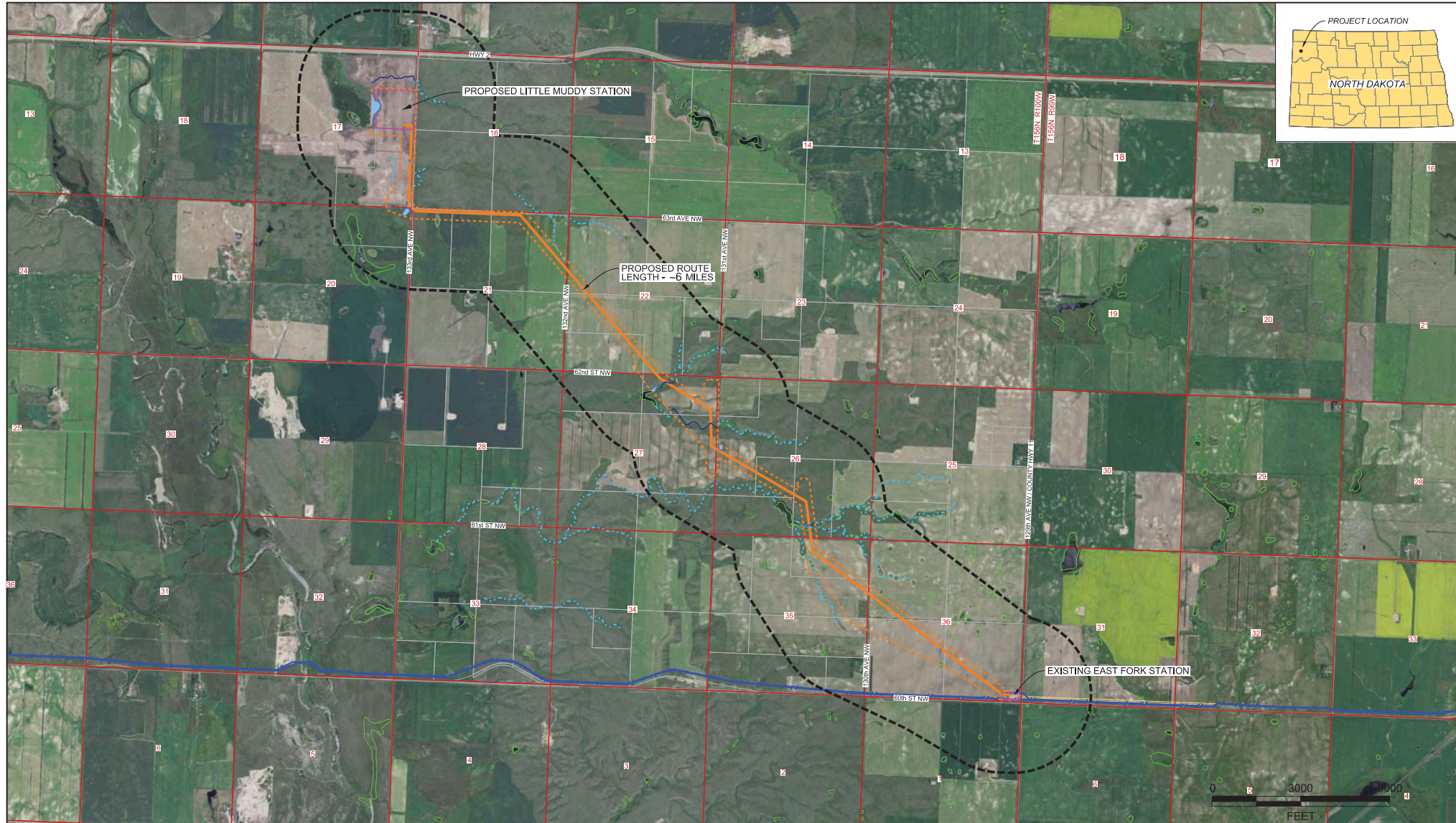
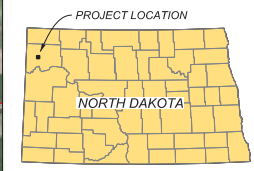
PREPARED BY:
 ROOMKEY ENGINEERING, INC.
 1000 W. 13TH AVE., SUITE 200
 FARGO, NORTH DAKOTA 58103
 701.782.5911

ENBRIDGE PIPELINES (NORTH DAKOTA) LLC

LITTLE MUDDY STATION
 CONNECTION PROJECT
WILLIAMS COUNTY OVERVIEW
 SEC 17, 20, 21, 22, 26, 27, 35, 36 T156N, R100W

DRAWN: MWV	CHECKED: MJ
DATE: 9/20/11	SCALE: AS SHOWN

2728-M-0000



LEGEND

PROPOSED ROUTE		NWI WETLAND	
EXISTING ENBRIDGE PIPELINE		DELIMITED WETLAND	
STUDY AREA		DELIMITED WATER BODY	
ENVIRONMENTAL CORRIDOR		USGS STREAM	
SECTION LINES			
PARCELS			
STATION BOUNDS			

GENERAL NOTES

NO GENERAL NOTES ARE PRESENT IN THIS DRAWING.

REVISIONS

REV. NO.	DESCRIPTION	DWN	CHKD	DATE
A	ISSUED FOR REVIEW	MWW	MJ	8/26/11
B	UPDATED ROUTES: ADDED NWDATA	MWW	MJ	8/31/11
C	UPDATED ROUTE: REMOVED ROUTE OPTION 2	MWW	MJ	9/16/11
D	ND-49C FILING	MWW	MJ	9/20/11
E	REBISUED FOR ND-49C FILING	MWW	MJ	10/18/11
F	REBISUED FOR ND-49C FILING	MWW	MJ	10/21/11
G	REBISUED FOR ND-49C FILING	MWW	MJ	10/24/11

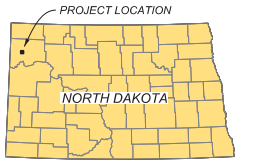
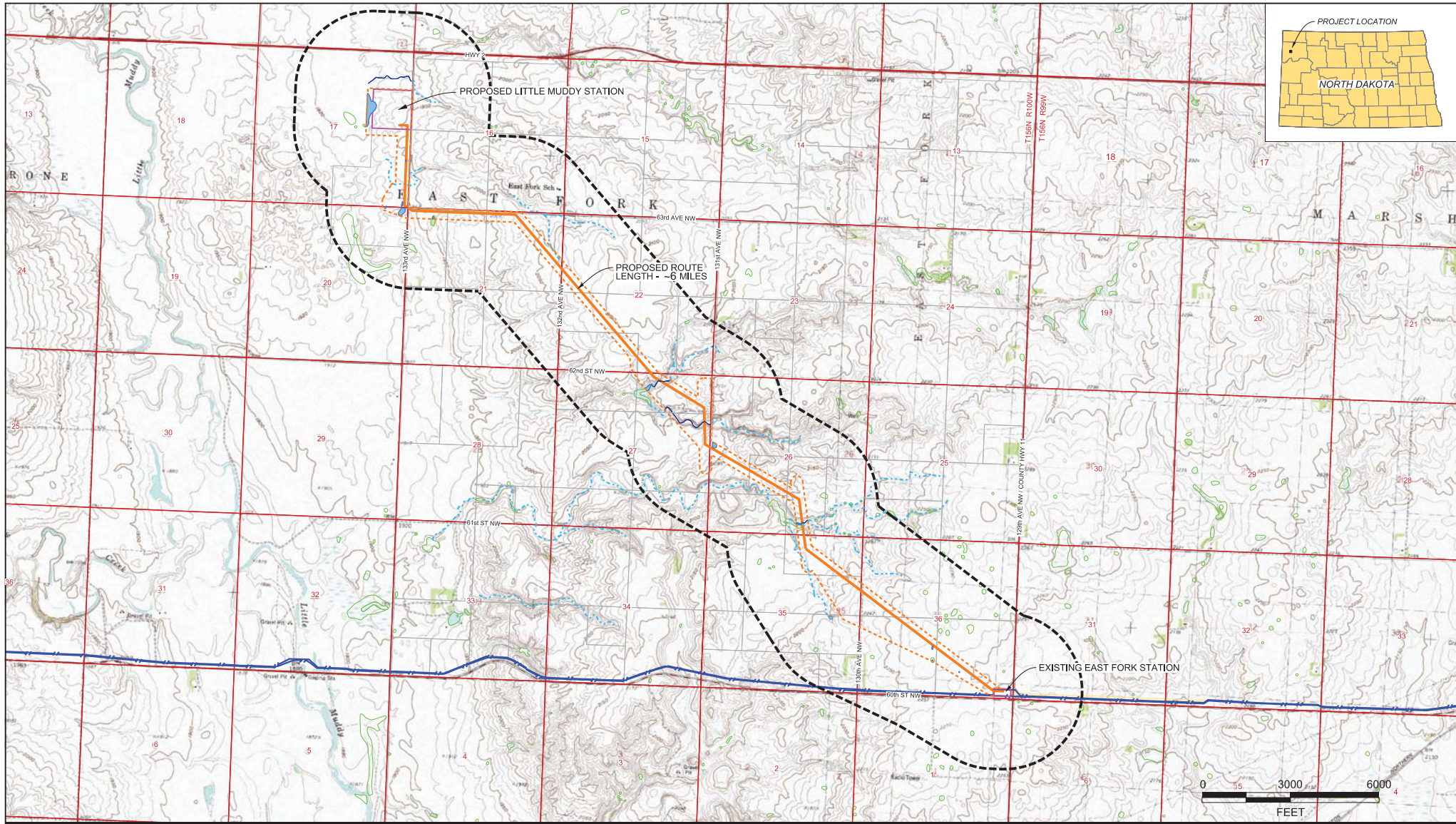
PREPARED BY:
ROONEY ENGINEERING
GENERAL, COLORADO

ENBRIDGE PIPELINES (NORTH DAKOTA) LLC

LITTLE MUDDY STATION
CONNECTION PROJECT
ROUTE OVERVIEW
AERIAL

WILLIAMS COUNTY NORTH DAKOTA

SCALE: AS SHOWN DATE: PROJECT NO. DRAWING NO.
DWN BY: MWW 8/26/11 2827-M-0001
CHKD BY: MJ 8/30/11
ENGR: MJ 8/26/11 REVISION: G



LEGEND

- PROPOSED ROUTE
- EXISTING ENBRIDGE PIPELINE
- STUDY AREA
- ENVIRONMENTAL CORRIDOR
- SECTION LINES
- PARCELS
- STATION BOUNDS

- NW WETLAND
- DELIMITED WETLAND
- DELIMITED WATER BODY
- USGS STREAM

GENERAL NOTES

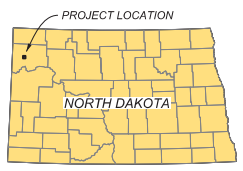
REVISIONS

REV. NO.	DESCRIPTION	DWN	CHGD	DATE
A	ISSUED FOR REVIEW	MWW	MJ	8/26/11
B	UPDATED ROUTES: ADDED NW DATA	MWW	MJ	8/31/11
C	UPDATED ROUTE: REMOVED ROUTE OPTION 2	MWW	MJ	9/16/11
D	ND-45C FILING	MWW	MJ	9/20/11
E	REBUSUED FOR ND-45C FILING	MWW	MJ	10/18/11
F	REBUSUED FOR ND-45C FILING	MWW	MJ	10/21/11
G	REBUSUED FOR ND-45C FILING	MWW	MJ	10/24/11

LITTLE MUDDY STATION CONNECTION PROJECT ROUTE OVERVIEW

 WILLIAMS COUNTY TOPO NORTH DAKOTA

SCALE: AS SHOWN	DATE: 8/26/11	PROJECT NO: 2827-M-0001
DWN BY: MWW	DATE: 8/26/11	DRWING NO: 2827-M-0001
CHGD BY: MJ	DATE: 8/26/11	REVISION: G
ENGR: MJ	DATE: 8/26/11	REVISION: G



LEGEND

PROPOSED ROUTE		NWI WETLAND	
EXISTING ENBRIDGE PIPELINE		DELINEATED WETLAND	
STUDY AREA		DELINEATED WATER BODY	
ENVIRONMENTAL CORRIDOR		USGS STREAM	
SECTION LINES			
PARCELS			
STATION BOUNDS			

GENERAL NOTES

1. ALL DISTANCES ARE IN FEET UNLESS OTHERWISE NOTED.

2. THE PROPOSED ROUTE IS SHOWN AS AN ORANGE DASHED LINE.

3. THE PROPOSED STATION IS SHOWN AS A PINK SQUARE.

4. THE STUDY AREA IS BOUND BY A DASHED BLACK LINE.

5. THE ENVIRONMENTAL CORRIDOR IS BOUND BY DOTTED ORANGE LINES.

6. THE PROPOSED ROUTE BEGINS AT STATION 0+00 AND ENDS AT STATION 140+00.

7. THE PROPOSED STATION IS LOCATED BETWEEN SECTIONS 16 AND 17, TOWNSHIP 157N, RANGE 100W.

8. THE PROPOSED ROUTE CROSSES 133RD AVE NW AND 132ND AVE NW.

9. THE PROPOSED ROUTE IS 400 FEET WIDE.

10. THE PROPOSED ROUTE IS 80 FEET WIDE AT STATION 80+00.

11. THE PROPOSED ROUTE IS 100 FEET WIDE AT STATION 100+00.

12. THE PROPOSED ROUTE IS 120 FEET WIDE AT STATION 120+00.

13. THE PROPOSED ROUTE IS 140 FEET WIDE AT STATION 140+00.

14. THE PROPOSED ROUTE IS 20 FEET WIDE AT STATION 20+00.

15. THE PROPOSED ROUTE IS 87.5 FEET WIDE AT STATION 87.5+00.

16. THE PROPOSED ROUTE IS 158.1 FEET WIDE AT STATION 158.1+00.

17. THE PROPOSED ROUTE IS 150 FEET WIDE AT STATION 150+00.

18. THE PROPOSED ROUTE IS 160 FEET WIDE AT STATION 160+00.

19. THE PROPOSED ROUTE IS 170 FEET WIDE AT STATION 170+00.

20. THE PROPOSED ROUTE IS 180 FEET WIDE AT STATION 180+00.

21. THE PROPOSED ROUTE IS 190 FEET WIDE AT STATION 190+00.

22. THE PROPOSED ROUTE IS 200 FEET WIDE AT STATION 200+00.

REVISIONS

REV. NO.	DESCRIPTION	DWN	CHKD	DATE
A	ISSUED FOR REVIEW	MWW	MJ	9/1/11
B	UPDATED ROUTES	MWW	MJ	9/6/11
C	UPDATED ROUTES & ENVIRONMENTAL CORR.	MWW	MJ	9/15/11
D	ND-45C FILING	MWW	MJ	9/26/11
E	REBUILT FOR ND-45C FILING	MWW	MJ	10/18/11
F	REBUILT FOR ND-45C FILING	MWW	MJ	10/21/11
G	REBUILT FOR ND-45C FILING	MWW	MJ	10/24/11

ENBRIDGE PIPELINES (NORTH DAKOTA) LLC

LITTLE MUDDY STATION CONNECTION PROJECT AERIAL ROUTE MAP

WILLIAMS COUNTY NORTH DAKOTA

SHEET 1

SCALE: AS SHOWN DATE PROJECT NO. DRAWING NO.

DWN BY: MW 9/1/11 2827-M-0011

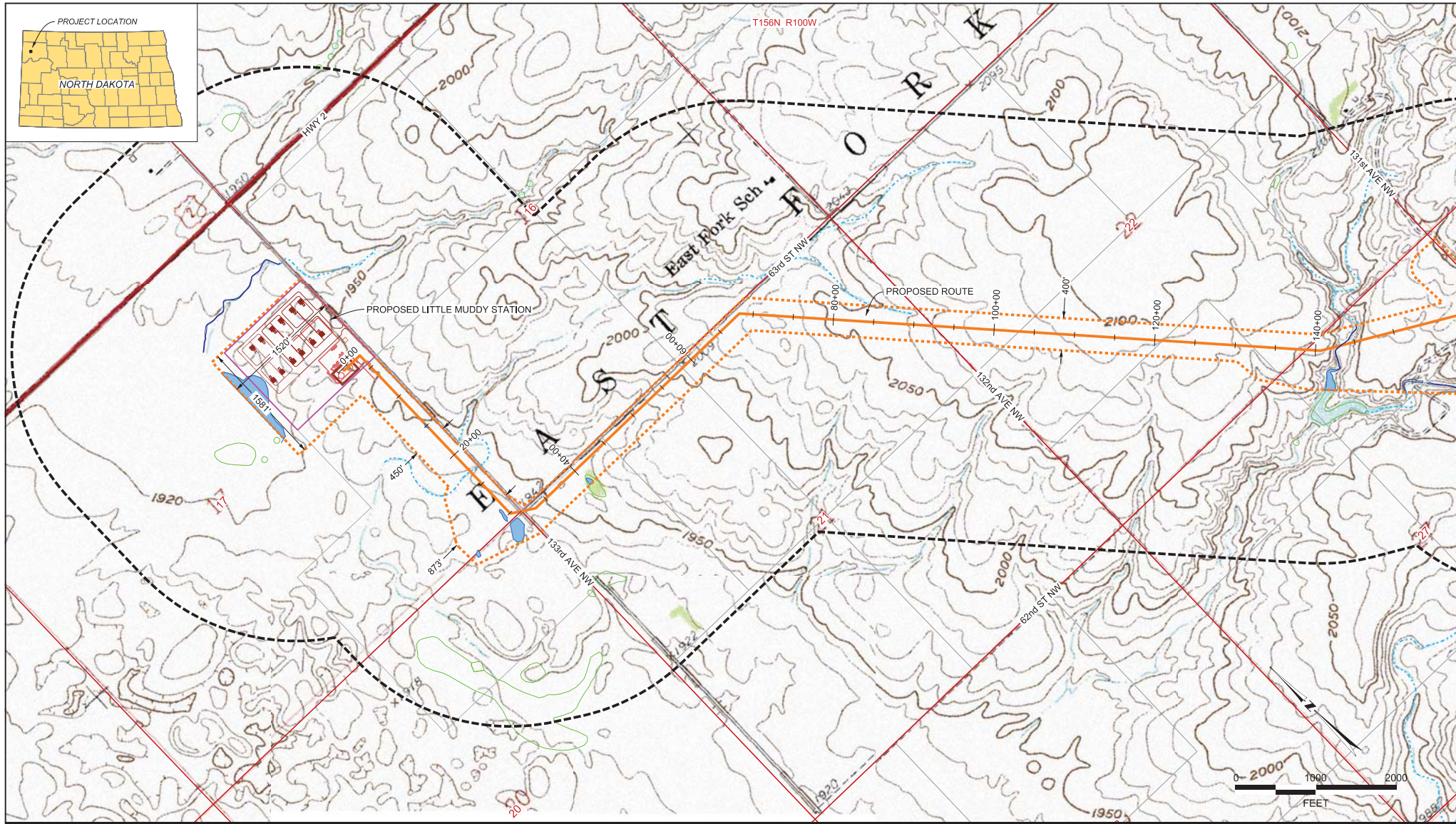
CHKD BY: MJ 9/11/11

ENGR: MJ 9/11/11

REVISOR: G

REVISIONS: G





LEGEND

- PROPOSED ROUTE
- EXISTING ENBRIDGE PIPELINE
- STUDY AREA
- ENVIRONMENTAL CORRIDOR
- SECTION LINES
- PARCELS
- STATION BOUNDS

- NW1 WETLAND
- DELIMITED WETLAND
- DELIMITED WATER BODY
- USGS STREAM

GENERAL NOTES

Area containing general notes and other project information.

REVISIONS

REV. NO.	DESCRIPTION	DWN	CHKD	DATE
A	ISSUED FOR REVIEW	MWW	MJ	9/1/11
B	UPDATED ROUTES	MWW	MJ	9/6/11
C	UPDATED ROUTES & ENVIRONMENTAL CORR.	MWW	MJ	9/15/11
D	ND-45C FILING	MWW	MJ	9/26/11
E	REBUSIED FOR ND-45C FILING	MWW	MJ	10/10/11
F	REBUSIED FOR ND-45C FILING	MWW	MJ	10/21/11
G	REBUSIED FOR ND-45C FILING	MWW	MJ	10/24/11

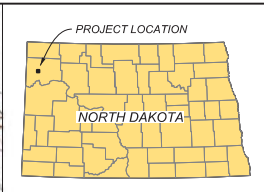
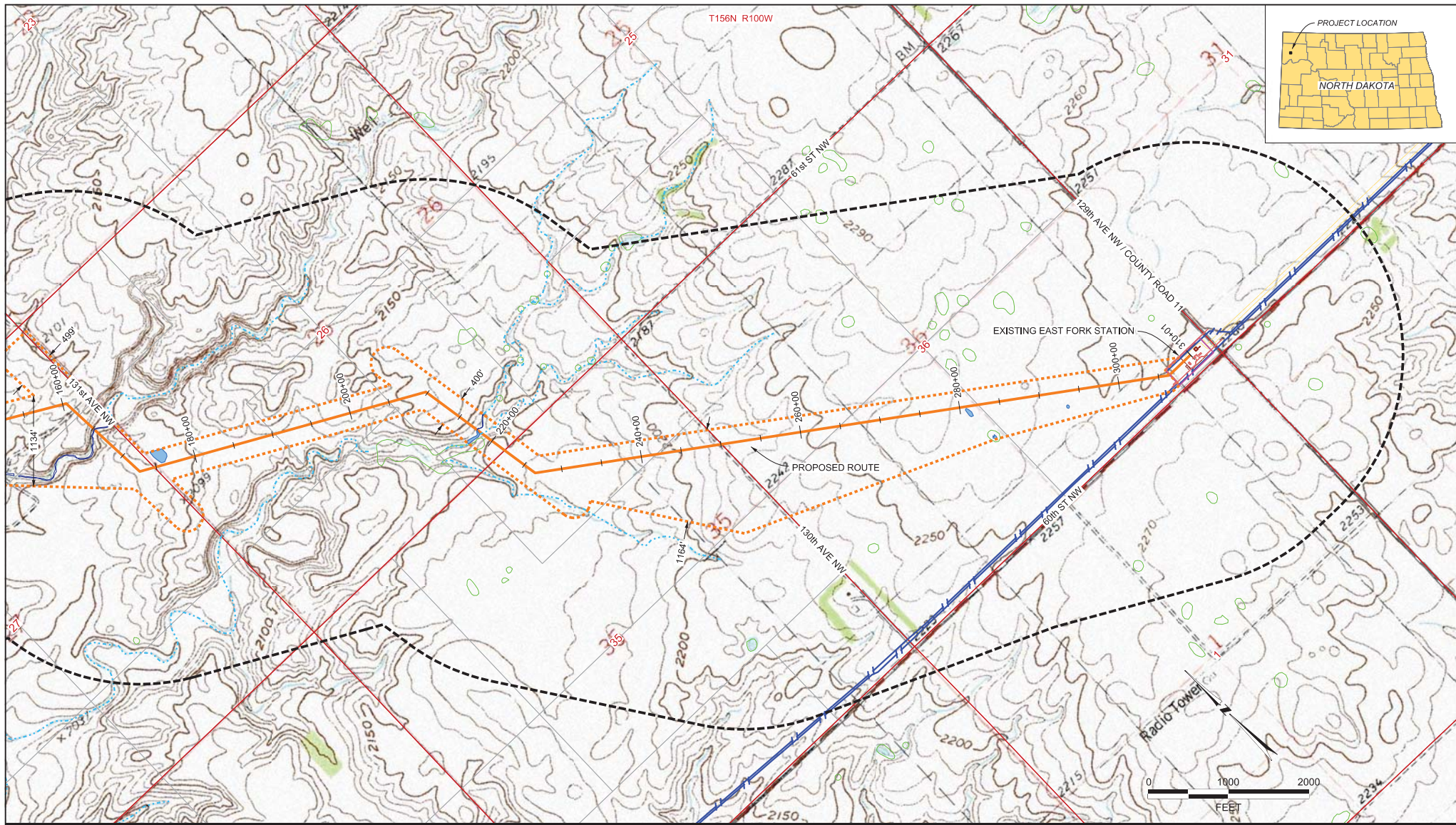
PREPARED BY
ROONEY ENGINEERING
GENERAL CONTRACTORS
CENTENNIAL, COLORADO

ENBRIDGE PIPELINES (NORTH DAKOTA) LLC

**LITTLE MUDDY STATION
CONNECTION PROJECT
TOPO ROUTE MAP**

WILLIAMS COUNTY SHEET 1 NORTH DAKOTA

SCALE:	AS SHOWN	DATE	PROJECT NO.	DRAWING NO.
DWN BY:	MWW	9/1/11	2827-M-0013	
CHKD BY:	MJ	9/11/11		
ENGR:	MJ	9/11/11	REVISION:	G



LEGEND

- PROPOSED ROUTE
- EXISTING ENBRIDGE PIPELINE
- STUDY AREA
- ENVIRONMENTAL CORRIDOR
- SECTION LINES
- PARCELS
- STATION BOUNDS

- NWI WETLAND
- DELINEATED WETLAND
- DELINEATED WATER BODY
- USGS STREAM

GENERAL NOTES

Area reserved for general notes and other project information.

REVISIONS

REV. NO.	DESCRIPTION	DWN	CHKD	DATE
A	ISSUED FOR REVIEW	MWW	MJ	9/7/11
B	UPDATED ROUTES	MWW	MJ	9/6/11
C	UPDATED ROUTES: REMOVED ROUTE OPTION 2	MWW	MJ	9/15/11
D	ND-45C FLING	MWW	MJ	9/26/11
E	REBUSIED FOR ND-45C FLING	MWW	MJ	10/18/11
F	REBUSIED FOR ND-45C FLING	MWW	MJ	10/20/11
G	REBUSIED FOR ND-45C FLING	MWW	MJ	10/24/11

PREPARED BY
ROONEY ENGINEERING
CENTENNIAL, COLORADO

ENBRIDGE PIPELINES (NORTH DAKOTA) LLC

LITTLE MUDDY STATION
CONNECTION PROJECT
TOPO ROUTE MAP

WILLIAMS COUNTY NORTH DAKOTA
SHEET 2

SCALE:	AS SHOWN	DATE:		PROJECT NO.:		DRAWING NO.:	
DWN BY:	MWW	DATE:	9/7/11			2827-M-0014	
CHKD BY:	MJ	DATE:	9/11/11				
ENGR:	MJ	DATE:	9/11/11				