

ANGP Bid Specifications 5/23/2014 - Index

General Conditions (35 pages)

Supplemental Conditions (10 pages)

Supplemental Condition Attachments (digital)

- Vermont Department of Environmental Conservation (VTDEC) Individual Stormwater Construction Discharge (INDC) Permit Application (7/03/13)
 - --VTDEC Draft Individual (3/24/14) Construction Stormwater Discharge Permit #6949
- Response to comments to the 6/28/13 INDC permit application and supplemental application materials (9/20/13)
- VTDEC Individual Wetland Permit Application (7/10/13)
- VTDEC Individual Section 401 Water Quality Certification Application (7/10/13)
 - Draft Water Quality Certification (no date – issued with Post Bid Bulletin 4)
- VTDEC Stream Alteration/FEH Documentation (7/1/13)
- United States Army Corps of Engineers (USACE) Section 404 Individual Permit Application (7/10/13) includes USACE Rivers and Harbors Act Section 10 Permit Application
- VTrans 1111 Permit Application (4/16/13)
- Memorandum of Understanding between Vermont Gas Systems and the Vermont Agency of Natural Resources (9/13/13)
- Vermont Department of Public Service Petition for Certificate of Public Good Cover Letter (6/28/13) and J. Nelson prefiled testimony.
 - Certificate of Public Good issued by State of Vermont Public Service Board (12/23/13)
- VELCO Technical Memorandum (10/1/2012)
- Genesee & Wyoming Railroad Services, Inc. Permit Applications (Colchester and Williston)
 - Genesee & Wyoming Permit/Agreement No. 7092 (Essex)
 - Genesee & Wyoming Permit/Agreement No. 7093 (Williston)
- Local/Town Permits
 - Town of Colchester (12/19/2013)
 - Town of Essex (1/17/2014)
 - Town of Williston (12/13/2013)
 - St. George, Hinesburg, Monkton, New Haven, Middlebury (Pending)
- Additional Memorandum of Understandings
 - Town of Monkton (6/14/13)
 - Monkton Central School (6/11/13)
 - Vermont Agency of Agriculture (6/13/13)
 - Addison County Regional Planning (8/12/13)

- VELCO (6/12/13)
- Construction Line List with Conditions (11/12/13)
- Blasting Plan for Addison Natural Gas Project (June 25, 2012)

ADDENDUM (Addendum attachments are available electronically)

- Addendum 1 (10/18/2013)
- Addendum 2 (10/29/2013)
- Addendum 3 (11/13/2013)
- Addendum 4 (11/26/2013)

POST BID BULLETIN (Post Bid Bulletin attachments are available electronically)

- Post Bid Bulletin 1 (1/16/2014)
- Post Bid Bulletin 2 (1/16/2014)
- Post Bid Bulletin 3 (2/14/2014)
- Post Bid Bulletin 4 (4/1/2014)

TECHNICAL SPECIFICATIONS

DIVISION VGS – SPECIAL CONSTRUCTION (GAS PIPELINE)

VGS Operation & Maintenance Manual – Abridged Version for Transmission Construction Contractors - 2013*

Vermont Gas ANGP Project Scope of Work and Specifications

DIVISION 01 – GENERAL REQUIREMENTS

011000 Summary

012300 Alternates

012600 Contract Modification Procedures

012900 Payment Procedures

013000 Project Management and Coordination

013200 Construction Progress Documentation

013300 Submittal Procedures

014000 Quality Requirements

014200 References

015000 Temporary Facilities and Controls

015700 Maintenance and Protection of Traffic

017300 Execution

017700 Closeout Procedures

017839 Project Record Documents

DIVISION 02 – EXISTING CONDITIONS

023219 Exploratory Excavations

DIVISION 09 – FINISHES

099000 Mainline Valve Assembly Painting

DIVISION 13 – SPECIAL CONSTRUCTION

130000 VGS Paralleling High Voltage Transmission Lines

136000 Mainline Valve Piping Fabrication

DIVISION 26 – ELECTRICAL

260501 Electrical – General Installation Requirements

260521 Wire and Cable

260527 Grounding and Bonding Systems

260534 Conduits

260800 Electrical Acceptance Testing

DIVISION 27 - COMMUNICATIONS

270000 Data and Communications

DIVISION 31 – EARTHWORK

310519.13 Geotextiles for Earthwork

312000 Earth Moving

312316.26 Rock Removal

312319 Dewatering

312333 Trenching and Backfilling

312500 Erosion and Sedimentation Controls

313710 Riprap and Stone Fill

315000 Excavation Support and Protection

DIVISION 32 – EXTERIOR IMPROVEMENTS

321116 Subbase Courses

321216 Asphalt Paving

321500 Crushed Stone Surfacing PROJECT PLANS (UNDER SEPARATECOVER)-

Refer to Contract Document List Table below

*NOTE: The VGS Operating and Maintenance Manual (the Manual) is a working document and is continually updated and improved. This Manual is controlled only by VGS. The included sections are for reference and bidding purposes only. If awarded the Transmission Phase Contract, the selected Contractor is required to contact VGS for the most current release of the Manual prior to beginning construction.

ADDISON NATURAL GAS PROJECT - ALIGNMENT SHEETS

DWG NO.	REV. NO.	DATE	DRAWING TITLE - GENERAL
ANGP-T-G-001	0	06/28/13	COVER SHEET
ANGP-T-G-002	0	06/28/13	INDEX SHEET
ANGP-T-G-003	3	11/13/13	LEGEND & NOTES

ANGP-T-G-004	0	06/28/13	CONST. CONFIG. DETAILS
ANGP-T-G-005	1	09/20/13	CONST. CONFIG. DETAILS
ANGP-T-G-006	1	09/20/13	CONST. CONFIG. DETAILS
ANGP-T-G-007A	4	01/31/14	ACCESS ROAD DETAILS
ANGP-T-G-007B	2	02/21/14	ACCESS ROAD DETAILS
ANGP-T-G-008	2	11/13/13	ACCESS OAD DETAILS
ANGP-T-G-009	4	02/24/14	ACCESS ROAD DETAILS
ANGP-T-G-010	1	01/31/14	ACCESS ROAD DETAILS
ANGP-T-G-011	N/A	N/A	NOT INCLUDED
ANGP-T-G-012	0	06/28/13	CONSTRUCTION DETAILS
ANGP-T-G-013	2	10/14/13	CONSTRUCTION DETAILS
ANGP-T-G-014	0	06/28/13	CONSTRUCTION DETAILS
ANGP-T-G-015	2	10/14/13	CONSTRUCTION DETAILS
ANGP-T-G-016	0	06/28/13	CONSTRUCTION DETAILS
ANGP-T-G-017	2	10/08/13	CONSTRUCTION DETAILS
ANGP-T-G-018	1	09/20/13	CONSTRUCTION DETAILS
ANGP-T-G-019	1	09/20/13	CONSTRUCTION DETAILS
ANGP-T-G-020	1	09/20/13	CONSTRUCTION DETAILS
ANGP-T-G-021	0	06/28/13	STA. & VALVE DETAILS
ANGP-T-G-022	1	11/13/13	WILLISTON PIPEYARD
ANGP-T-G-023	1	TBD	PLANK ROAD PIPEYARD
DWG NO.	REV. NO.	DATE	DRAWING TITLE - CIVIL
ANGP-T-C-001A	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-001B	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-002	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-003	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-004	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-005	2	03/26/14	ALIGNMENT SHEET
ANGP-T-C-006	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-007	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-008	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-009	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-010	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-011	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-012	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-013	2	11/13/13	ALIGNMENT SHEET
ANGP-T-C-014	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-015	2	01/31/14	ALIGNMENT SHEET
ANGP-T-C-016	2	01/31/14	ALIGNMENT SHEET
ANGP-T-C-017	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-018	1	10/08/13	ALIGNMENT SHEET

ANGP-T-C-019	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-020	2	02/03/14	ALIGNMENT SHEET
ANGP-T-C-021	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-022	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-023B	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-024	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-025	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-026	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-027	2	11/13/13	ALIGNMENT SHEET
ANGP-T-C-028	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-029	2	01/31/14	ALIGNMENT SHEET
ANGP-T-C-030	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-031	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-032	2	03/14/14	ALIGNMENT SHEET
ANGP-T-C-033	3	03/14/14	ALIGNMENT SHEET
ANGP-T-C-034	2	01/31/14	ALIGNMENT SHEET
ANGP-T-C-035	2	02/14/14	ALIGNMENT SHEET
ANGP-T-C-036	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-037	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-038	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-039	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-040	3	01/27/14	ALIGNMENT SHEET
ANGP-T-C-041	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-042	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-043	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-044	3	04/10/14	ALIGNMENT SHEET
ANGP-T-C-045	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-046	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-047	2	11/13/13	ALIGNMENT SHEET
ANGP-T-C-048	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-049	2	02/03/14	ALIGNMENT SHEET
ANGP-T-C-050	2	02/04/14	ALIGNMENT SHEET
ANGP-T-C-051	3	04/25/14	ALIGNMENT SHEET
ANGP-T-C-052	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-053	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-054	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-055	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-056	2	01/31/14	ALIGNMENT SHEET
ANGP-T-C-057	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-058	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-059	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-060	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-061A	1	10/08/13	ALIGNMENT SHEET

ANGP-T-C-061B	2	02/04/14	ALIGNMENT SHEET
ANGP-T-C-062	2	02/04/14	ALIGNMENT SHEET
ANGP-T-C-063	2	02/04/14	ALIGNMENT SHEET
ANGP-T-C-064	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-065	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-066	2	04/10/14	ALIGNMENT SHEET
ANGP-T-C-067	2	11/13/13	ALIGNMENT SHEET
ANGP-T-C-068	2	11/13/13	ALIGNMENT SHEET
ANGP-T-C-069	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-070	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-071	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-072	2	04/10/14	ALIGNMENT SHEET
ANGP-T-C-073	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-074	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-075	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-076	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-077	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-078	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-079	2	05/08/14	ALIGNMENT SHEET
ANGP-T-C-080	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-081	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-082A	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-082B	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-083A	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-083B	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-084A	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-084B	1	10/08/13	ALIGNMENT SHEET
ANGP-T-C-085	1	10/08/13	ALIGNMENT SHEET

ADDISON NATURAL GAS PROJECT - EPSC SHEETS

DWG NO.	REV. NO.	DATE	DRAWING TITLE - GENERAL
ANGP-T-G-001	1	09/20/13	COVER SHEET
ANGP-T-G-002	1	09/20/13	INDEX SHEET
ANGP-T-G-003	3	11/13/13	LEGEND & NOTES
ANGP-T-G-004	0	06/28/13	CONST. CONFIG. DETAILS
ANGP-T-G-005	1	09/20/13	CONST. CONFIG. DETAILS

ANGP-T-G-006	1	09/20/13	CONST. CONFIG. DETAILS
ANGP-T-G-007A	4	01/31/14	ACCESS ROAD DETAILS
ANGP-T-G-007B	2	02/21/14	ACCESS ROAD DETAILS
ANGP-T-G-008	2	11/13/13	ACCESS ROAD DETAILS
ANGP-T-G-009	4	02/24/14	ACCESS ROAD DETAILS
ANGP-T-G-010	1	01/31/14	ACCESS ROAD DETAILS
ANGP-T-G-011	2	10/14/13	EPSC NOTES
ANGP-T-G-012	0	06/28/13	CONSTRUCTION DETAILS
ANGP-T-G-013	2	10/14/13	CONSTRUCTION DETAILS
ANGP-T-G-014	0	06/28/13	CONSTRUCTION DETAILS
ANGP-T-G-015	2	10/14/13	CONSTRUCTION DETAILS
ANGP-T-G-016	0	06/28/13	CONSTRUCTION DETAILS
ANGP-T-G-017	2	10/08/13	CONSTRUCTION DETAILS
ANGP-T-G-018	1	09/20/13	CONSTRUCTION DETAILS
ANGP-T-G-019	1	09/20/13	CONSTRUCTION DETAILS
ANGP-T-G-020	1	09/20/13	CONSTRUCTION DETAILS
ANGP-T-G-021	0	06/28/13	STA. & VALVE DETAILS
ANGP-T-G-022	1	11/13/13	WILLISTON PIPEYARD
ANGP-T-G-023	1	TBD	PLANK ROAD PIPEYARD
DWG NO.	REV. NO.	DATE	DRAWING TITLE - EPSC
ANGP-EPSC-001A	1	09/20/13	EPSC PLAN
ANGP-EPSC-001B	1	09/20/13	EPSC PLAN
ANGP-EPSC-002	1	09/20/13	EPSC PLAN
ANGP-EPSC-003	1	09/20/13	EPSC PLAN
ANGP-EPSC-004	1	09/20/13	EPSC PLAN
ANGP-EPSC-005	1	03/26/14	EPSC PLAN
ANGP-EPSC-006	0	06/28/13	EPSC PLAN
ANGP-EPSC-007	0	06/28/13	EPSC PLAN
ANGP-EPSC-008	0	06/28/13	EPSC PLAN
ANGP-EPSC-009	0	06/28/13	EPSC PLAN
ANGP-EPSC-010	0	06/28/13	EPSC PLAN

ANGP-EPSC-011	0	06/28/13	EPSC PLAN
ANGP-EPSC-012	0	06/28/13	EPSC PLAN
ANGP-EPSC-013	0	06/28/13	EPSC PLAN
ANGP-EPSC-014	1	09/20/13	EPSC PLAN
ANGP-EPSC-015	2	01/31/14	EPSC PLAN
ANGP-EPSC-016	2	01/31/14	EPSC PLAN
ANGP-EPSC-017	1	09/20/13	EPSC PLAN
ANGP-EPSC-018	1	09/20/13	EPSC PLAN
ANGP-EPSC-019	1	09/20/13	EPSC PLAN
ANGP-EPSC-020	2	02/04/14	EPSC PLAN
ANGP-EPSC-021	1	09/20/13	EPSC PLAN
ANGP-EPSC-022	0	06/28/13	EPSC PLAN
ANGP-EPSC-023B	2	10/08/13	EPSC PLAN
ANGP-EPSC-024	1	09/20/13	EPSC PLAN
NGP-EPSC-025	1	09/20/13	EPSC PLAN
ANGP-EPSC-026	1	09/20/13	EPSC PLAN
ANGP-EPSC-027	2	11/13/13	EPSC PLAN
ANGP-EPSC-028	0	06/28/13	EPSC PLAN
ANGP-EPSC-029	2	01/31/14	EPSC PLAN
ANGP-EPSC-030	0	06/28/13	EPSC PLAN
ANGP-EPSC-031	0	06/28/13	EPSC PLAN
ANGP-EPSC-032	1	03/14/14	EPSC PLAN
ANGP-EPSC-033	3	03/14/14	EPSC PLAN

ANGP-EPSC-034	2	01/31/14	EPSC PLAN
ANGP-EPSC-035	2	02/14/14	EPSC PLAN
ANGP-EPSC-036	1	09/20/13	EPSC PLAN
ANGP-EPSC-037	0	06/28/13	EPSC PLAN
ANGP-EPSC-038	1	09/20/13	EPSC PLAN
ANGP-EPSC-039	1	09/20/13	EPSC PLAN
ANGP-EPSC-040	2	02/04/14	EPSC PLAN
ANGP-EPSC-041	0	06/28/13	EPSC PLAN
ANGP-EPSC-042	0	06/28/13	EPSC PLAN
ANGP-EPSC-043	1	09/20/13	EPSC PLAN
ANGP-EPSC-044	2	04/10/14	EPSC PLAN
ANGP-EPSC-045	0	06/28/13	EPSC PLAN
ANGP-EPSC-046	2	10/08/13	EPSC PLAN
ANGP-EPSC-047	3	11/13/13	EPSC PLAN
ANGP-EPSC-048	1	09/20/13	EPSC PLAN
ANGP-EPSC-049	2	02/04/14	EPSC PLAN
ANGP-EPSC-050	2	02/04/14	EPSC PLAN
ANGP-EPSC-051	3	04/25/14	EPSC PLAN
ANGP-EPSC-052	0	06/28/13	EPSC PLAN
ANGP-EPSC-053	0	06/28/13	EPSC PLAN
ANGP-EPSC-054	0	06/28/13	EPSC PLAN
ANGP-EPSC-055	0	06/28/13	EPSC PLAN
ANGP-EPSC-056	2	01/31/14	EPSC PLAN

ANGP-EPSC-057	1	09/20/13	EPSC PLAN
ANGP-EPSC-058	1	09/20/13	EPSC PLAN
ANGP-EPSC-059	1	09/20/13	EPSC PLAN
ANGP-EPSC-060	0	06/28/13	EPSC PLAN
ANGP-EPSC-061A	1	09/20/13	EPSC PLAN
ANGP-EPSC-061B	1	02/04/14	EPSC PLAN
ANGP-EPSC-062	1	02/04/14	EPSC PLAN
ANGP-EPSC-063	1	02/14/14	EPSC PLAN
ANGP-EPSC-064	0	06/28/13	EPSC PLAN
ANGP-EPSC-065	1	09/20/13	EPSC PLAN
ANGP-EPSC-066	2	04/10/14	EPSC PLAN
ANGP-EPSC-067	1	09/20/13	EPSC PLAN
ANGP-EPSC-068	1	09/20/13	EPSC PLAN
ANGP-EPSC-069	0	06/28/13	EPSC PLAN
ANGP-EPSC-070	0	06/28/13	EPSC PLAN
ANGP-EPSC-071	0	06/28/13	EPSC PLAN
ANGP-EPSC-072	1	04/10/14	EPSC PLAN
ANGP-EPSC-073	0	06/28/13	EPSC PLAN
ANGP-EPSC-074	0	06/28/13	EPSC PLAN
ANGP-EPSC-075	0	06/28/13	EPSC PLAN
ANGP-EPSC-076	0	06/28/13	EPSC PLAN
ANGP-EPSC-077	0	06/28/13	EPSC PLAN
ANGP-EPSC-078	0	06/28/13	EPSC PLAN

ANGP-EPSC-079	1	05/08/14	EPSC PLAN
ANGP-EPSC-080	0	06/28/13	EPSC PLAN
ANGP-EPSC-081	0	06/28/13	EPSC PLAN
ANGP-EPSC-082A	1	09/20/13	EPSC PLAN
ANGP-EPSC-082B	1	09/20/13	EPSC PLAN
ANGP-EPSC-083A	1	09/20/13	EPSC PLAN
ANGP-EPSC-083B	1	09/20/13	EPSC PLAN
ANGP-EPSC-084A	1	09/20/13	EPSC PLAN
ANGP-EPSC-084B	1	09/20/13	EPSC PLAN
ANGP-EPSC-085	0	06/28/13	EPSC PLAN

COLCHESTER LAUNCHER AND TIE-IN SITE –
ISSUED FOR CONSTRUCTION - DRAWING SET REVISION 1

DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - MECHANICAL
15-713-G-400	1	09/24/13	COVER SHEET
15-713-G-401	1	09/24/13	P&ID LEGEND
15-713-G-402	1	09/24/13	P&ID
15-713-M-400	1	09/24/13	PIPING PLAN VIEW
15-713-M-401	1	09/24/13	PIPING SECTION VIEWS
15-713-M-402	1	09/24/13	PIPING SECTION VIEWS
15-713-M-403	1	09/24/13	BILL OF MATERIAL
DWG NO.	REV. NO.	DATE	DRAWING TITLE - CIVIL
15-713-C-400	A	06/14/13	GENERAL NOTES AND LEGEND
15-713-C-401	A	06/14/13	GENERAL ARRANGEMENT PLAN
15-713-C-402	A	06/14/13	SITE DETAILS
15-713-C-403	A	06/14/13	SITE DETAILS
DWG NO.	REV. NO.	DATE	DRAWING TITLE - ELECTRICAL
15-713-E-401	1	09/24/13	AREA CLASSIFICATION PLAN
15-713-E-402	0	09/24/13	CONDUIT LAYOUT PLAN
15-713-E-403	0	-	GROUNDING PLAN (PENDING)
15-713-E-404	0	09/24/13	GROUNDING DETAILS
15-713-E-405	0	09/24/13	SPARK GAP & FB107 PANEL DETAILS
15-713-E-406	0	09/24/13	RTU POWER DISTRIBUTION

15-713-E-407	0	09/24/13	FLOBOSS 107 EXPANSION CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-408	0	09/24/13	FLOBOSS 107 BASE CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-409	0	09/24/13	I/O LIST
15-713-E-410	0	09/24/13	AC/DC CONDUIT SCHEDULE
15-713-E-411	0	09/24/13	SINGLE PHASE PANEL LAYOUT
15-713-E-412	0	09/24/13	I&E EQUIPMENT LIST & DC DISTRIBUTION
15-713-E-413	0	09/24/13	INCOMING SERVICE DETAILS
15-713-E-414	0	09/24/13	BARRIER & ENCLOSURE DETAILS
15-713-E-415	0	-	CATHODIC PROTECTION PLAN (PENDING)
15-713-E-416	0	-	CATHODIC PROTECTION DETAILS (PENDING)

MAINLINE VALVE TYPICAL –
ISSUED FOR BID - DRAWING SET REVISION B

DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - MECHANICAL
15-713-G-500	B	09/25/13	COVER SHEET
15-713-G-501	B	09/25/13	P&ID LEGEND
15-713-G-502	B	09/25/13	P&ID
15-713-M-500	B	09/25/13	MLV PLAN VIEW, PIPING SECTION VIEW, BILL OF MATERIAL
DWG NO.	REV. NO.	DATE	DRAWING TITLE - CIVIL
15-713-C-500	A	06/14/13	GENERAL NOTES AND LEGEND
15-713-C-501	A	06/14/13	GENERAL ARRANGEMENT PLAN AND SECTION, MLV 1
15-713-C-502	A	06/14/13	GENERAL ARRANGEMENT PLAN AND SECTION, MLV 2
15-713-C-503	A	06/14/13	GENERAL ARRANGEMENT PLAN AND SECTION, MLV 3
15-713-C-504	A	06/26/13	GENERAL ARRANGEMENT PLAN AND SECTION, MLV 4
15-713-C-505	A	06/14/13	GENERAL ARRANGEMENT PLAN AND SECTION, MLV 6
15-713-C-506	A	06/14/13	SITE DETAILS
15-713-C-507	A	06/14/13	SITE DETAILS
DWG NO.	REV. NO.	DATE	DRAWING TITLE - ELECTRICAL
15-713-E-500	B	09/25/13	MLV AREA CLASSIFICATION PLAN
15-713-E-502	B	09/25/13	MLV CONDUIT LAYOUT PLAN

15-713-E-503	A	-	MLV GROUNDING PLAN (PENDING)
15-713-E-504	A	06/28/13	GROUNDING DETAILS
15-713-E-505	A	06/28/13	SPARK GAP & FB107 PANEL DETAILS
15-713-E-506	A	06/28/13	RTU POWER DISTRIBUTION
15-713-E-507	A	06/28/13	FLOBOSS 107 EXPANSION CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-508	A	06/28/13	FLOBOSS 107 EXPANSION CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-509	A	06/28/13	I/O LIST
15-713-E-510	B	07/04/13	AC/DC CONDUIT SCHEDULE
15-713-E-511	A	06/28/13	SINGLE PHASE PANEL LAYOUT
15-713-E-512	A	06/28/13	I&E EQUIPMENT LIST & DC DISTRIBUTION
15-713-E-513	A	06/28/13	INCOMING SERVICE DETAILS
15-713-E-514	A	06/28/13	BARRIER & ENCLOSURE DETAILS
15-713-E-515	A	-	CATHODIC PROTECTION PLAN (PENDING)
15-713-E-516	A	-	CATHODIC PROTECTION DETAILS(PENDING)

WILLISTON METER & REGULATION STATION – ISSUED
FOR CONSTRUCTION – DRAWING SET REVISION 3

DWG NO.	REV. NO.	DATE	DRAWING TITLE - MECHANICAL
15-713-G-100	3	09/25/13	COVER SHEET
15-713-G-102	1	09/25/13	P&ID LEGEND
15-713-G-103	1	09/25/13	P&ID
15-713-M-100	2	09/25/13	PIPING PLAN VIEW
15-713-M-101	1	09/25/13	PIPING SECTION VIEWS
15-713-M-102	1	09/25/13	PIPING SECTION VIEWS
15-713-M-103	1	09/25/13	PIPING SECTION VIEWS
15-713-M-104	1	09/25/13	MECHANICAL DETAILS
15-713-M-105	2	09/25/13	BILL OF MATERIAL (SHEET 1 OF 2)
15-713-M-105	2	09/25/13	BILL OF MATERIAL (SHEET 1 OF 2)
15-713-M-106	1	09/25/13	METER AND REGULATOR BUILDING
15-713-M-107	1	09/25/13	DAC BUILDING
DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - CIVIL
15-713-G-101	0	03/05/13	GENERAL NOTES AND LEGEND
15-713-C-100	0	-	GENERAL ARRANGEMENT PLAN
15-713-C-101	0	-	SITE DETAILS
15-713-C-102	0	03/05/13	SITE DETAILS
S-001	-	-	STRUCTURAL NOTES
S-101	-	-	PRECAST BUILDING FOUNDATIONS

DWG NO.	REV. NO.	DATE	DRAWING TITLE - ELECTRICAL
15-713-E-101	2	09/25/13	AREA CLASSIFICATION PLAN
15-713-E-102	1	04/10/13	CONDUIT LAYOUT PLAN
15-713-E-103	0	-	GROUNDING PLAN (PENDING)
15-713-E-104	0	04/01/13	GROUNDING DETAILS
15-713-E-105	0	04/01/13	SPARK GAP & FB107 PANEL DETAILS
15-713-E-106	0	04/01/13	RTU POWER DISTRIBUTION
15-713-E-107	0	04/01/13	FLOBOSS 107 EXPANSION CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-108	0	04/01/13	FLOBOSS 107 BASE CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-109	0	04/01/13	I/O LIST
15-713-E-110	0	04/01/13	AC/DC CONDUIT SCHEDULE
15-713-E-111	0	04/01/13	SINGLE PHASE PANEL LAYOUT
15-713-E-112	0	04/01/13	I&E EQUIPMENT LIST & DC DISTRIBUTION
15-713-E-113	0	04/01/13	INCOMING SERVICE DETAILS
15-713-E-114	0	04/01/13	BARRIER & ENCLOSURE DETAILS
15-713-E-115	0	-	CATHODIC PROTECTION PLAN (PENDING)
15-713-E-116	0	-	CATHODIC PROTECTION DETAILS(PENDING)

PLANK ROAD METER AND REGULATION STATION –
ISSUED FOR CONSTRUCTION - DRAWING SET REVISION 2

DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - MECHANICAL
15-713-G-200	2	09/24/13	COVER SHEET
15-713-G-202	0	04/01/13	P&ID LEGEND
15-713-G-203	1	09/24/13	P&ID
15-713-M-200	1	09/24/13	PIPING PLAN VIEW
15-713-M-201	1	09/24/13	PIPING SECTION VIEWS
15-713-M-202	1	09/24/13	PIPING SECTION VIEWS
15-713-M-203	1	09/24/13	PIPING SECTION VIEWS
15-713-M-204	1	09/24/13	PIPING SECTION VIEWS
15-713-M-205	0	04/01/13	MECHANICAL DETAILS
15-713-M-206	1	09/24/13	BILL OF MATERIAL (SH. 1 OF 2)
15-713-M-206	1	09/24/13	BILL OF MATERIAL (SH. 1 OF 2)
15-713-M-207	0	04/01/13	METER AND REGULATOR BUILDING
15-713-M-208	0	04/01/13	DAC BUILDING
DWG NO.	REV. NO.	DATE	DRAWING TITLE - CIVIL
15-713-G-201	0	05/03/13	GENERAL NOTES AND LEGEND

15-713-C-200	0	-	GENERAL ARRANGEMENT PLAN
15-713-C-201	0	-	SITE DETAILS
15-713-C-202	0	05/03/13	SITE DETAILS
S-001	-	-	STRUCTURAL NOTES
S-101	-	-	PRECAST BUILDING FOUNDATIONS
DWG NO.	REV. NO.	DATE	DRAWING TITLE - ELECTRICAL
15-713-E-201	1	09/24/13	AREA CLASSIFICATION PLAN
15-713-E-202	1	09/24/13	CONDUIT LAYOUT PLAN
15-713-E-203	0	-	GROUNDING PLAN (PENDING)
15-713-E-204	0	04/01/13	GROUNDING DETAILS
15-713-E-205	0	04/01/13	SPARK GAP & FB107 PANEL DETAILS
15-713-E-206	0	04/01/13	RTU POWER DISTRIBUTION
15-713-E-207	0	04/01/13	FLOBOSS 107 BASE CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-208	0	04/01/13	FLOBOSS 107 EXPANSION CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-209	0	04/01/13	I/O LIST
15-713-E-210	1	07/04/13	AC/DC CONDUIT SCHEDULE
15-713-E-211	0	04/01/13	SINGLE PHASE PANEL LAYOUT
15-713-E-212	0	04/01/13	I&E EQUIPMENT LIST & DC DISTRIBUTION
15-713-E-213	0	04/01/13	INCOMING SERVICE DETAILS
15-713-E-214	0	04/01/13	BARRIER & ENCLOSURE DETAILS
15-713-E-215	0	-	CATHODIC PROTECTION PLAN (PENDING)
15-713-E-216	0	-	CATHODIC PROTECTION DETAILS(PENDING)

MIDDLEBURY METER AND REGULATION STATION – ISSUED FOR CONSTRUCTION

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DRAWING SET REVISION 2

DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - MECHANICAL
15-713-G-300	2	09/24/13	COVER SHEET
15-713-G-302	1	09/24/13	P&ID LEGEND
15-713-G-303	1	09/24/13	P&ID
15-713-M-301	1	09/24/13	PIPING GENERAL ARRANGEMENT
15-713-M-302	1	09/24/13	PIPING SECTION VIEWS
15-713-M-303	1	09/24/13	PIPING SECTION VIEWS
15-713-M-304	1	09/24/13	PIPING SECTION VIEWS
15-713-M-305	1	09/24/13	MAINLINE VALVE ELEVATION
15-713-M-306	1	09/24/13	MECHANICAL DETAILS
15-713-M-307	1	09/24/13	BILL OF MATERIAL (SHT. 1 OF 2)

15-713-M-307	1	09/24/13	BILL OF MATERIAL (SHT. 2 OF 2)
15-713-M-308	0	04/01/13	METER AND REGULATOR BUILDING
15-713-M-309	0	04/01/13	DAC BUILDING
DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - CIVIL
15-713-G-301	0	-	GENERAL NOTES AND LEGEND
15-713-C-300	0	-	GENERAL ARRANGEMENT PLAN
15-713-C-301	0	-	SITE DETAILS
15-713-C-302	0	-	SITE DETAILS
S-001	-	-	STRUCTURAL NOTES
S-101	-	-	PRECAST BUILDING FOUNDATIONS
DWG NO. REV.	REV. NO.	DATE	DRAWING TITLE - ELECTRICAL
15-713-E-301	1	09/24/13	AREA CLASSIFICATION PLAN
15-713-E-302	1	09/20/13	CONDUIT LAYOUT PLAN
15-713-E-303	0	-	GROUNDING PLAN (PENDING)
15-713-E-304	0	04/01/13	GROUNDING DETAILS
15-713-E-305	0	04/01/13	SPARK GAP & FB107 PANEL DETAILS
15-713-E-306	0	04/01/13	RTU POWER DISTRIBUTION
15-713-E-307	0	04/01/13	FLOBOSS 107 BASE CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-308	0	04/01/13	FLOBOSS 107 EXPANSION CHASSIS CONTROL SYSTEM SCHEMATIC
15-713-E-309	0	04/01/13	I/O LIST
15-713-E-310	0	04/01/13	AC/DC CONDUIT SCHEDULE
15-713-E-311	0	04/01/13	SINGLE PHASE PANEL LAYOUT
15-713-E-312	0	04/01/13	I&E EQUIPMENT LIST & DC DISTRIBUTION
15-713-E-313	0	04/01/13	INCOMING SERVICE DETAILS
15-713-E-314	0	04/01/13	BARRIER & ENCLOSURE DETAILS
15-713-E-315	0	-	CATHODIC PROTECTION PLAN (PENDING)
15-713-E-316	0	-	CATHODIC PROTECTION DETAILS(PENDING)

ARK ENGINEERING – AC MITIGATION SYSTEM DRAWINGS,
PROJECT NO. 12-E-144-AC REVISION 2

DWG NO.	SHEETS	REV. NO.	DATE	DRAWING TITLE
12144-101	1	2	09/30/13	COVER SHEET
12144-205	1	2	09/30/13	GROUNDING PLAN - WILLISTON M & R
12144-206	1	2	09/30/13	GROUNDING PLAN - MLV-2
12144-207	1	2	09/30/13	GROUNDING PLAN - MLV-3

12144-208	1	2	09/30/13	GROUNDING PLAN - MLV-4
12144-209	1	2	09/30/13	GROUNDING PLAN - MLV-5/PLANK ROAD M&R
12144-210	1	2	09/30/13	GROUNDING PLAN - MLV-6
12144-211	1	2	09/30/13	GROUNDING PLAN – COLCHESTER LAUNCHER
12144-212	1	2	09/30/13	GROUNDING PLAN - MIDDLEBURY M & R
12144-305	1	2	09/30/13	GROUND LOOP SPLICE CONNECTION DETAILS
12144-306	1	2	09/30/13	CABLE TO PIPELINE CONNECTION DETAILS
12144-307	1	2	09/30/13	SOLID STATE DECOUPLER (SSD) INSTALLATION DETAILS
12144-308	1	2	09/30/13	FENCE & GATE CLAMP CONNECTION DETAILS
12144-309	1	2	09/30/13	GROUND ROD INSTALLATION DETAILS - DRILL PROCEDURE
12144-401	2	2	09/30/13	MATERIALS LIST

ARK ENGINEERING – CATHODIC PROTECTION SYSTEM
DESIGN DRAWINGS, PROJECT NO. 12-E-145-CP REVISION 0

DWG NO.	SHEETS	REV. NO.	DATE	DRAWING TITLE
12145-101	1	0	10/04/13	COVER SHEET
12145-203	1	0	10/04/13	CATHODIC PROTECTION – COLCHESTER LAUNCHER SITE
12145-204	1	0	10/04/13	CATHODIC PROTECTION – WILLISTON M & R STATION
12145-205	1	0	10/04/13	CATHODIC PROTECTION - PLANK ROAD M & R STATION
12145-206	1	0	10/04/13	CATHODIC PROTECTION – MIDDLEBURY M & R STATION
12145-304	1	0	10/04/13	CABLE TO PIPELINE CONNECTION DETAILS
12145-305	1	0	09/30/13	EXOTHERMIC WELD CONNECTIONS
12145-306	1	0	10/04/13	TEST STATION I - 4 MAGNESIUM ANODE INSTALLATION
12145-307	1	0	10/04/13	TEST STATION II - 2 MAGNESIUM ANODE INSTALLATION
12145-308	1	0	10/04/13	SOLID STATE DECOUPLER (SSD) INSTALLATION DETAILS
12145-401	1	0	10/04/13	MATERIALS LIST

