

Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

Permit: # 15-391

West Union

Date Approved: 02/26/2016



Expires: 02/26/2017

Issued to: MarkWest Liberty Midstream & Resources POC: 724-574-4319

**Company Address: 218 Swisher Lane
West Union, WV 26456**

Project Address: Same

Firm: Lat/Long:

Purpose of development: Administration and Storage Bldg.

Issued by: George C Eidel, Doddridge County FPM (or designee)

Date: 02/26/2016

For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.2631, or via email at
doddridgecountyfpm@gmail.com
108 Court Street Ste 1; West Union, WV 26456

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

333 BALDWIN ROAD
PITTSBURGH, PA 15205
(412) 429-2324

PNC BANK, N.A.
Pittsburgh, PA



8-9-430

CHECK DATE 11/14/2014

PAY Fifteen Thousand Five Hundred and 00/100 Dollars

TO Doddridge County Commission

AMOUNT 15,500.00


AUTHORIZED SIGNATURE

Security features. Details on back.

⑈ 106959 ⑈ ⑆ 043000096 ⑆ 0002272405 ⑈

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

106959

Check Date: 11/14/2014

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
11142014	11/14/2014	000000247188	15,500.00			15,500.00
Doddridge County Commission			TOTAL			15,500.00
- Operating Account	43	11261				



Civil & Environmental Consultants, Inc.
333 Baldwin Road

Pittsburgh, PA 15205-1751
Phone: (412) 429-2324 · Toll Free: (800) 365-2324
Fax: (412) 429-2114

Letter of Transmittal

Date: 10/30/2015

Job No.: 110-811.5001

Attention: George C. Eidel

To:

Doddridge County Commission
118 East Court Street
West Union, WV 26456

RE:

MarkWest Sherwood Administration-Warehouse

We are sending you attached via FedEx Priority the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order Floodplain Permit Application

Copies	Date	No.	Description
1			Sherwood Administration-Warehouse Floodplain Application Form
1			Probable Construction Costs
1			C304 - Grading and Storm Sewer Plan

- For approval Approved as submitted Resubmit _ copies for approval
 For your use Approved as noted Submit _ copies for distribution
 As requested Returned for corrections Return _ prints
 For review and comment _
 For bids due Prints returned after loan to us

Remarks: Attached is a copy of the Floodplain Permit Application, a Construction Costs Spreadsheet and a copy of the Grading and Storm Sewer Plan for your review. Please do not hesitate to call me at 412-429-2324 if you have any questions.

Copy to:

-

Signed:

Richard P. Celender

DODDRIDGE COUNTY, WV
 BETH...
 2015 OCT 30 PM 2:17
 FILED

Mark West
Administration Bldg
&
Storage Bldg
15-391

DODDRIDGE COUNTY

FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. **I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.**

APPLICANT'S SIGNATURE _____



Agent for Applicant

DATE _____

October 28, 2015

SECTION 2: PROPOSED DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME: MarkWest Liberty Midstream & Resources, LLC.

ADDRESS: 218 Swisher Lane, West Union, WV 26456

TELEPHONE NUMBER: 724-574-4319

CONTRACTOR NAME: Wolfe's Excavating
ADDRESS: 70 Columbia Boulevard, Clarksburg, WV 26301
TELEPHONE # 304-842-9050
WV CONTRACTOR LICENCE # WV043545

ENGINEER'S NAME: Civil & Environmental Consultants, Inc. - Rick Celender
ADDRESS: 333 Baldwin Road, Pittsburgh, PA 15205
TELEPHONE NUMBER: 412-429-2324

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) _____

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) _____

DISTRICT: Grant

LAND BOOK DESCRIPTION: _____

DEED BOOK REFERENCE: D.B.V. 346, PG. 457

TAX MAP REFERENCE: Sheet 19, Lot 31.6

EXISTING BUILDINGS/USES OF PROPERTY: Farmland

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY N/A - Non-Residential Development

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY N/A - Non-Residential Development

To avoid delay in processing the application, please provide enough information to easily identify the project location.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>		<u>STRUCTURAL TYPE</u>	
<input checked="" type="checkbox"/>	New Structure	<input type="checkbox"/>	Residential (1 – 4 Family)
<input type="checkbox"/>	Addition	<input type="checkbox"/>	Residential (more than 4 Family)
<input type="checkbox"/>	Alteration	<input checked="" type="checkbox"/>	Non-residential (floodproofing)
<input type="checkbox"/>	Relocation	<input type="checkbox"/>	Combined Use (res. & com.)
<input type="checkbox"/>	Demolition	<input type="checkbox"/>	Replacement
<input type="checkbox"/>	Manufactured/Mobil Home		

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining Drilling Pipelining
 - Grading
 - Excavation (except for STRUCTURAL DEVELOPMENT checked above)
 - Watercourse Alteration (including dredging and channel modification)
 - Drainage Improvements (including culvert work)
 - Road, Street, or Bridge Construction
 - Subdivision (including new expansion)
 - Individual Water or Sewer System
 - Other (please specify)
-

C. STANDARD SITE PLAN OR SKETCH

1. **SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED (ENGINEERING PLANS MUST BE SIGNED AND SEALED).**
2. **IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:**
SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.
3. **SIGN AND DATE THE SKETCH.**

**ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT/
PROPOSED CONSTRUCTION PROJECT WITHIN THE FLOODPLAIN**

\$ 2,511,980.00

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

- 1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED.**

NAME: _____ N/A - Proposed impacts are within subject property. _____

ADDRESS: _____

ADDRESS: _____

NAME: _____

NAME: _____

ADDRESS: _____

ADDRESS: _____

- 1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.**

NAME: _____ N/A - Proposed impacts are within subject property. _____

ADDRESS: _____

ADDRESS: _____

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.
- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.

(E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Richard P. Celender (Agent for Landowner)

SIGNATURE:  DATE: October 28, 2015

After completing SECTION 2, APPLICANT should submit permit form and fees to Clerk of Doddridge County Court or his/her representative for review.

SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: _____

Dated: _____

Is **NOT** located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and **NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED**).

Is located in Special Flood Hazard Area.
FIRM zone designation _____
100-Year flood elevation is _____ NGVD .
Stream name _____
Profile # _____

Unavailable

The proposed development is located in a floodway.

See section 4 for additional instructions.

SIGNED _____

DATE _____

**SECTION 4: ADDITIONAL INFORMATION REQUIRED FOR DEVELOPMENT IN
SPECIAL FLOOD HAZARD AREA (To be completed by Floodplain
Administrator/Manager or his/her representative)**

The applicant must submit the documents checked below before the application can be processed.

- A plan showing the location of all existing structures, water bodies, adjacent roads and proposed development.

- Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proofing of utilities located below the first floor and details of enclosures below the first floor. Also _____

- Subdivision or other development plans (If the subdivision or development exceeds 10 lots or 2 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

- Plans showing the extent of watercourse relocation and/or landform alterations.

- Top of new fill elevation _____ Ft. NGVD.
For floodproofing structures applicant must attach certification from registered engineer or architect.

- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.

- Manufactured homes located in a Flood Hazard Area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).

- Other: _____

SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)

I have determined that the proposed activity (**type is or is not**) in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED _____ DATE _____

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may appeal.

APPEALS: Appealed to the County Commission of Doddridge County? Yes No
Hearing Date: _____
County Commission Decision - Approved Yes No

CONDITIONS: _____

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

- 1 Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is _____ FT. NGVD.
- 2 Actual (As Built) elevation of floodproofing is _____ FT. NGVD.

Note: Any work performed prior to submittal of the above information is at risk of the applicant.

SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS:

DATE: _____ **BY:** _____
DEFICIENCIES ? **Y/N**

COMMENTS _____

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).

Certificate of Compliance issued: **DATE:** _____ **BY:** _____

**CERTIFICATE OF COMPLIANCE
FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA
(OWNER MUST RETAIN)**

PERMIT NUMBER: _____

PERMIT DATE: _____

PURPOSE –

CONSTRUCTION LOCATION: _____

OWNER'S ADDRESS: _____

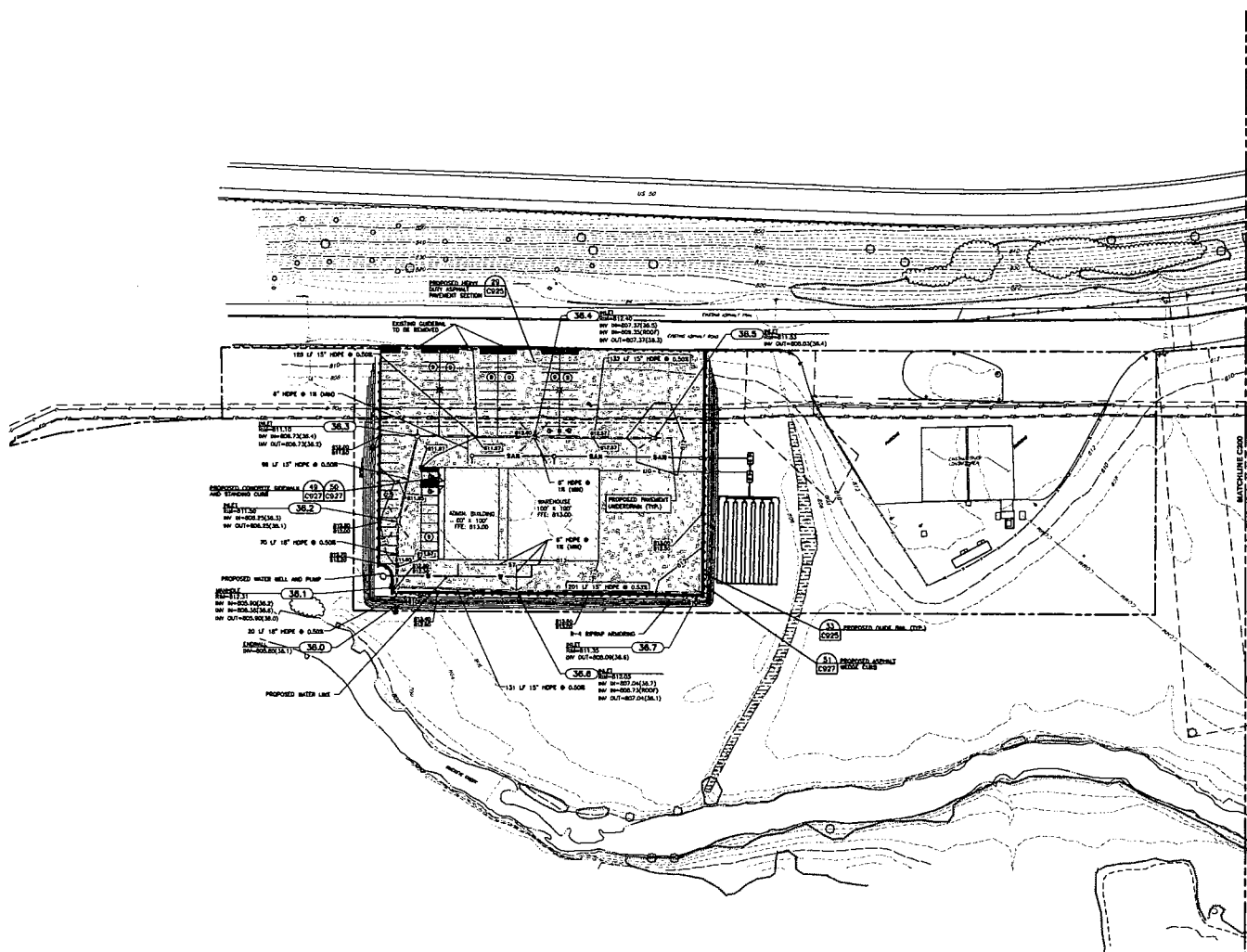
**THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN
ADMINISTRATOR/MANAGER OR HIS/HER AGENT.**

**COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE
FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF
DODDRIDGE COUNTY ON MAY 21, 2013.**

SIGNED _____ **DATE** _____

Sherwood Master Plan - Doddridge County, WV
 Opinion of Probable Construction Costs - Construction in the Floodplain
 Project #: 110-811.5001
 November 2014

Item	Units	Quantity	Unit Cost	Total Cost
Earth Work	CY	20000	\$ 3.00	\$ 60,000.00
Erosion Control Blanket	SY	1080	\$ 2.00	\$ 2,160.00
Silt Fence	LF	850	\$ 3.00	\$ 2,550.00
Concrete Sidewalk	SY	130	\$ 112.00	\$ 14,560.00
Concrete Curb	LF	1100	\$ 90.00	\$ 99,000.00
Bituminous Asphalt Paving	SY	8850	\$ 35.00	\$ 309,750.00
Admin. Building and Warehouse	Lump Sum	-	-	\$ 2,511,980.00
Total	-	-	-	\$ 3,000,000.00



LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING WATER CONTOUR
	EXISTING STORMWATER CONTOUR
	EXISTING ROCK OF CONCRETE
	EXISTING FENCE BOUNDARY
	EXISTING UNIMPROVED DRIVEWAY
	EXISTING FENCE
	EXISTING GUTTER
	EXISTING GAS LINE
	EXISTING FIBER OPTIC LINE
	EXISTING CABLE LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STORM SEWER LINE
	EXISTING UTILITY POLE W/ CROSS ARM
	EXISTING GAS VALVE/WATER
	EXISTING STORM WATER/RETENTION BASIN
	EXISTING TREE/LINE
	PROPOSED TREE/LINE
	EXISTING WELL
	EXISTING STREAM
	EXISTING WETLAND
	PROPOSED ASPHALT WEDGE CURB
	PROPOSED DRIVEWAY
	PROPOSED CONCRETE SIDEWALK
	PROPOSED SANITARY
	PROPOSED WATERLINE
	PROPOSED LIGHT POLE
	PROPOSED ROCK CONTOUR
	PROPOSED STORMWATER CONTOUR
	PROPOSED CATCH ELEVATION
	PROPOSED GUTTERLINE
	PROPOSED ROOF DRAIN
	PROPOSED STORM SEWER
	PROPOSED STORM MANHOLE
	PROPOSED INLET
	PROPOSED DIURNAL

REVISION RECORD

NO.	DATE	DESCRIPTION
1	11/17/2014	ISSUED FOR PERMIT
2	11/17/2014	ISSUED FOR PERMIT
3	11/17/2014	ISSUED FOR PERMIT
4	11/17/2014	ISSUED FOR PERMIT
5	11/17/2014	ISSUED FOR PERMIT
6	11/17/2014	ISSUED FOR PERMIT
7	11/17/2014	ISSUED FOR PERMIT
8	11/17/2014	ISSUED FOR PERMIT
9	11/17/2014	ISSUED FOR PERMIT
10	11/17/2014	ISSUED FOR PERMIT

CEC
Civil & Environmental Consultants, Inc.
 333 Balfour Road - Pittsburgh, PA 15202
 412-424-0020
 www.cecinc.com

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC
SHERWOOD GAS PROCESSING PLANTS & FACILITIES
 DODDRIDGE COUNTY, WEST VIRGINIA

GRADING AND STORM SEWER PLAN

DATE: 11/17/2014
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 PROJECT NO: [Number]

SCALE IN FEET
 1" = 20'

STANDARD STALLS PROVIDED
 ACCESSIBLE STALLS PROVIDED: 0
 TOTAL PRIVATE STALLS PROVIDED: 0

REVISION RECORD

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC

CEC

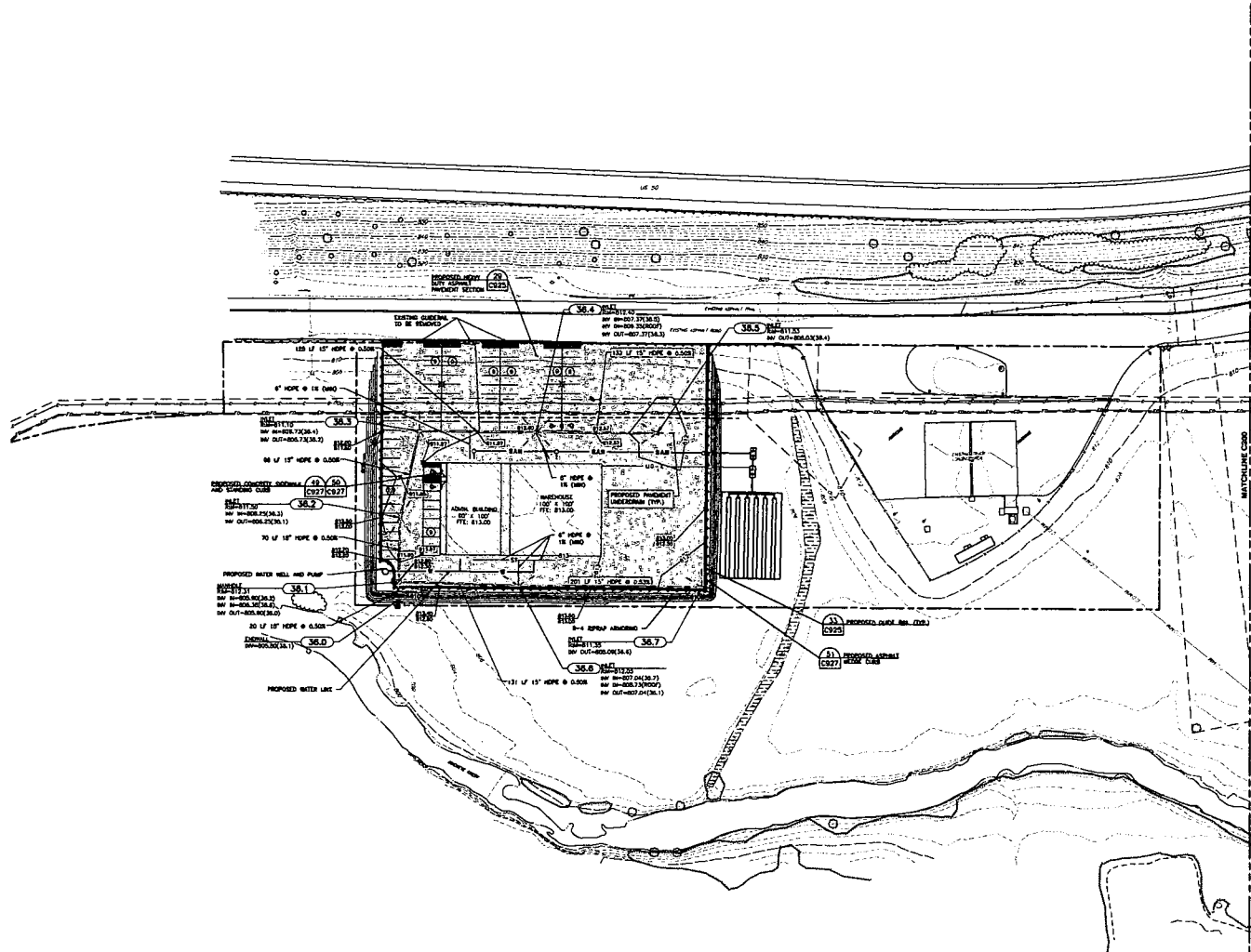
C304

- REFERENCE**
1. TOPOGRAPHIC SURVEY PROVIDED BY HOB-EAST MAPPING ON 8/20/2014 AND 8/12/2014.
 2. STREAM AND WETLAND DELINEATED BY CEC & ENVIRONMENTAL CONSULTANTS, INC.
 3. PLANT LISTING PROVIDED BY STREAMS AS AN ATTACHED FILE FILED 7/10-811.600 - C:\1_2014\stream\mfrs_plantlist.docx, DATED 1/7/2014.
 4. EXISTING UTILITIES LOCATED BY CEC AND CHAPMAN CORPORATION.





NORTH



LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING WATER CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING EDGE OF CONCRETE
	EXISTING PAVED BOUNDARY
	EXISTING LIMITED BOUNDARY
	EXISTING FENCE
	EXISTING ALUMINUM
	EXISTING GAS LINE
	EXISTING FIBER OPTIC LINE
	EXISTING CABLE LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STORM SEWER LINE
	EXISTING UTILITY POLE W/ GUY WIRE
	EXISTING SIDEWALK
	EXISTING STORM WATER/CATCHMENT BASIN
	EXISTING TREE LINE
	PROPOSED TREE LINE
	EXISTING WELL
	EXISTING STREAM
	EXISTING WETLAND
	PROPOSED ASPHALT HEDGE CURB
	PROPOSED ASPHALT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED MANHOLE
	PROPOSED WATERLINE
	PROPOSED LIGHT POLE
	PROPOSED METER CONTROL
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED GUTTERLINE
	PROPOSED ROOF DRAIN
	PROPOSED STORM SEWER
	PROPOSED STORM MANHOLE
	PROPOSED INLET
	PROPOSED CATCHALL

REVISION RECORD

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

CEE
 Civil & Environmental Consultants, Inc.
 233 Belvidere Road - Pittsburgh, PA 15205
 412-232-2222 • 412-232-2224
 www.ceeinc.com

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC
 SHERWOOD GAS PROCESSING PLANTS 6 & 7
 DODDRIDGE COUNTY, WEST VIRGINIA

GRADING AND STORM SEWER PLAN

DATE	NO.
11/18/2014	1
12/15/2014	2
1/14/2015	3
2/11/2015	4
3/10/2015	5
4/7/2015	6
5/5/2015	7
6/2/2015	8
7/1/2015	9
8/1/2015	10
9/1/2015	11
10/1/2015	12
11/1/2015	13
12/1/2015	14
1/1/2016	15
2/1/2016	16
3/1/2016	17
4/1/2016	18
5/1/2016	19
6/1/2016	20
7/1/2016	21
8/1/2016	22
9/1/2016	23
10/1/2016	24
11/1/2016	25
12/1/2016	26
1/1/2017	27
2/1/2017	28
3/1/2017	29
4/1/2017	30
5/1/2017	31
6/1/2017	32
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9/1/2017	35
10/1/2017	36
11/1/2017	37
12/1/2017	38
1/1/2018	39
2/1/2018	40
3/1/2018	41
4/1/2018	42
5/1/2018	43
6/1/2018	44
7/1/2018	45
8/1/2018	46
9/1/2018	47
10/1/2018	48
11/1/2018	49
12/1/2018	50
1/1/2019	51
2/1/2019	52
3/1/2019	53
4/1/2019	54
5/1/2019	55
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2/1/2022	88
3/1/2022	89
4/1/2022	90
5/1/2022	91
6/1/2022	92
7/1/2022	93
8/1/2022	94
9/1/2022	95
10/1/2022	96
11/1/2022	97
12/1/2022	98
1/1/2023	99
2/1/2023	100

- REFERENCE**
1. TOPOGRAPHIC SURVEY PROVIDED BY MOB-EAST SHIPPING ON 8/29/2014 AND 1/17/2014.
 2. STREAM AND WETLANDS DELINEATED BY C&E & ENVIRONMENTAL CONSULTANTS, INC.
 3. PLANT LAYOUT PROVIDED BY EXTERNA AS AN AUTOCAD FILE Titled "110-611-0004 - CIVIL_LAYOUT_GENERAL_INSTRUMENTARY", DATED 1/7/2014.
 4. EXISTING UTILITIES LOCATED BY C&E AND CHAMBER CORPORATION.

ENCLOSURE SHEETS PROVIDED
 ACCESSORY SHEETS PROVIDED
 TOTAL SHEETS PROVIDED

SCALE IN FEET

MARKET TICKET NUMBER 11000074

THE SURVEYOR HAS FILED THIS SURVEY WITH THE WEST VIRGINIA DEPARTMENT OF REVENUE

WEST VIRGINIA DEPARTMENT OF REVENUE

1859

STATE OF WEST VIRGINIA

C304

Buckeye Creek
 Existing vs. Proposed HEC-RAS Models
 100-Year Water Surface Elevations Summary
 Sherwood Gas Processing Plant - Doddridge County, WV
 Project: 110-811.5001

PREPARED BY: TGJ
 DATE: 11/7/2014
 CHECKED: *ARG*
 DATE: *07-Mar-2014*

ID	River Station	100-Year Peak Flow (cfs)	Water Surface Elevations Existing	Water Surface Elevations Proposed	Water Surface Elevations Existing vs. Proposed
A	35+04.54	5150	813.96	814.26	0.30
B	34+54.54	5150	813.52	813.90	0.38
C	34+04.54	5150	813.11	813.60	0.49
D	33+54.54	5150	813.17	813.71	0.54
E	33+04.54	5150	813.04	813.63	0.59
F	32+54.54	5150	813.13	813.72	0.59
G	32+04.54	5150	813.09	813.70	0.61
H	31+54.54	5150	813.08	813.73	0.65
I	31+04.54	5150	813.07	813.73	0.66
J	30+54.54	5150	813.07	813.72	0.65
K	30+04.54	5150	813.08	813.74	0.66
L	29+54.54	5150	813.10	813.71	0.61
M	29+04.54	5150	813.13	813.71	0.58
N	28+54.58	5150	813.13	813.71	0.58
O	28+04.54	5150	813.14	813.70	0.56
P	27+54.54	5150	813.11	813.68	0.57
Q	27+04.54	5150	812.97	813.61	0.64
R	26+61.29	5150	811.37	813.57	2.20
		Existing Bridge			
S	26+03.43	5150	811.11	813.43	2.32
T	25+54.54	5150	811.27	813.44	2.17
U	24+94.62	5150	-	811.79	N/A
		New Bridge			
V	24+17.85	5150	-	811.04	N/A
W	23+54.53	5150	811.43	811.66	0.23
X	23+06.38	5150	811.42	811.67	0.25
Y	22+54.54	5150	811.43	811.66	0.23
Z	22+04.54	5150	811.46	811.65	0.19
AA	21+54.54	5150	811.46	811.66	0.20
BB	21+05.74	5150	811.45	811.57	0.12
CC	19+03.41	5150	811.44	811.49	0.05
DD	18+04.00	5150	-	811.48	N/A
EE	16+04.54	5150	811.35	811.49	0.14
FF	14+19.72	5150	811.29	811.44	0.15
GG	12+34.05	5150	811.28	811.43	0.15
HH	11+02.70	5150	811.25	811.40	0.15
II	9+72.12	5150	811.18	811.34	0.16
JJ	8+10.82	5150	811.13	811.26	0.13
KK	6+04.54	5150	811.11	811.15	0.04
LL	433.99	5150	811.10	811.13	0.03
MM	289.71	5150	811.09	811.10	0.01
NN	109.26	5150	811.03	810.95	-0.08
OO	0	5150	811.00	811.00	0.00

Sherwood Master Plan - Doddridge County, WV
 Opinion of Probable Construction Costs - Construction in the Floodplain
 Project #: 110-811.5001
 November 2014

Item	Units	Quantity	Unit Cost	Total Cost
Earth Work	CY	20000	\$ 3.00	\$ 60,000.00
Erosion Control Blanket	SY	1080	\$ 2.00	\$ 2,160.00
Silt Fence	LF	850	\$ 3.00	\$ 2,550.00
Concrete Sidewalk	SY	130	\$ 112.00	\$ 14,560.00
Concrete Curb	LF	1100	\$ 90.00	\$ 99,000.00
Bituminous Asphalt Paving	SY	8850	\$ 35.00	\$ 309,750.00
Admin. Building and Warehouse	Lump Sum	-	-	\$ 2,511,980.00
Total	-	-	-	\$ 3,000,000.00

Certificate of Occupancy

DODDRIDGE COUNTY

OFFICE OF EMERGENCY MANAGEMENT AND FLOODPLAIN MANAGEMENT

108 Court Street, Suite 1, West Union, WV 26456
304-873-1343

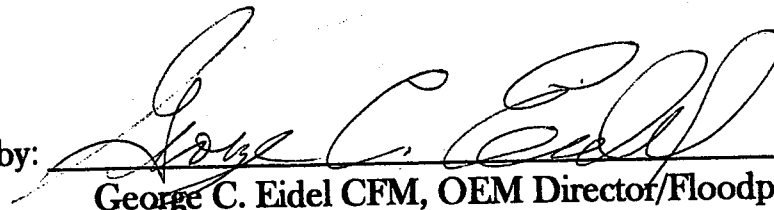
Floodplain Permit: #15-391
Certificate Number: #17-001

Owner: Mark West Liberty Midstream & Resources, LLC

Date: April 1, 2017

Site Location: 218 Swisher Lane, West Union, WV 26456

Issued by:


George C. Eidel CFM, OEM Director/Floodplain Manager

Date:

4/1/2017

DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY
PROPERTY INFORMATION FORM

O.M.B. NO. 1660-0015
 Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this data collection is estimated to average 1.63 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and submitting the form. This collection is required to obtain or retain benefits. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0015). **NOTE: Do not send your completed form to this address.**

This form may be completed by the property owner, property owner's agent, licensed land surveyor, or registered professional engineer to support a request for a Letter of Map Amendment (LOMA), Conditional Letter of Map Amendment (CLOMA), Letter of Map Revision Based on Fill (LOMR-F), or Conditional Letter of Map Revision Based on Fill (CLOMR-F) for existing or proposed, single or multiple lots/structures. In order to process your request, all information on this form must be completed *in its entirety*, unless stated as optional. **Incomplete submissions will result in processing delays.** Please check the item below that describes your request:

<input type="checkbox"/> LOMA	A letter from DHS-FEMA stating that an existing structure or parcel of land that has not been elevated by fill (natural grade) would not be inundated by the base flood.
<input type="checkbox"/> CLOMA	A letter from DHS-FEMA stating that a proposed structure that is not to be elevated by fill (natural grade) would not be inundated by the base flood if built as proposed.
<input checked="" type="checkbox"/> LOMR-F	A letter from DHS-FEMA stating that an existing structure or parcel of land that has been elevated by fill would not be inundated by the base flood.
<input type="checkbox"/> CLOMR-F	A letter from DHS-FEMA stating that a parcel of land or proposed structure that will be elevated by fill would not be inundated by the base flood if fill is placed on the parcel as proposed or the structure is built as proposed.

Fill is defined as material from any source (including the subject property) placed that raises the ground to or above the Base Flood Elevation (BFE). The common construction practice of removing unsuitable existing material (topsoil) and backfilling with select structural material is not considered the placement of fill if the practice does not alter the existing (natural grade) elevation, which is at or above the BFE. **Fill that is placed before the date of the first National Flood Insurance Program (NFIP) map showing the area in a Special Flood Hazard Area (SFHA) is considered natural grade.**

Has fill been placed on your property to raise ground that was previously below the BFE? Yes No If yes, when was fill placed? 01/15/2016
mm/dd/yyyy

Will fill be placed on your property to raise ground that is below the BFE? Yes* No If yes, when will fill be placed? mm/dd/yyyy

* If yes, Endangered Species Act (ESA) compliance must be documented to FEMA prior to issuance of the CLOMR-F determination (please refer page 4 to the MT-1 instructions).

1. Street Address of the Property (if request is for multiple structures or units, please attach additional sheet referencing each address and enter street names below):

218 Swisher Lane, West Union, WV 26456

2. Legal description of Property (Lot, Block, Subdivision or abbreviated description from the Deed):

5.758 acre Tract being Tax Parcel 19-31.6 for Doddridge County, WV, also listed as Tract Two of Deed Book Volume 346, page 457

3. Are you requesting that a flood zone determination be completed for (check one):

- Structures on the property? What are the dates of construction? _____ (MM/YYYY)
- A portion of land within the bounds of the property? (A certified metes and bounds description and map of the area to be removed, certified by a licensed land surveyor or registered professional engineer, are required. For the preferred format of metes and bounds descriptions, please refer to the MT-1 Form 1 Instructions.)
- The entire legally recorded property?

4. Is this request for a (check one):

- Single structure
- Single lot
- Multiple structures (How many structures are involved in your request? List the number: _____)
- Multiple lots (How many lots are involved in your request? List the number: _____)

In addition to this form (MT-1 Form 1), please complete the checklist below. ALL requests must include one copy of the following:

- Copy of the effective FIRM panel on which the structure and/or property location has been accurately plotted (property inadvertently located in the NFIP regulatory floodway will require Section B of MT-1 Form 3)
- Copy of the Subdivision Plat Map for the property (with recordation data and stamp of the Recorder's Office)
OR
- Copy of the Property Deed (with recordation data and stamp of the Recorder's Office), *accompanied by* a tax assessor's map or other certified map showing the surveyed location of the property relative to local streets and watercourses. The map should include at least one street intersection that is shown on the FIRM panel.
- Form 2 – Elevation Form. If the request is to remove the structure, and an Elevation Certificate has already been completed for this property, it may be submitted in lieu of Form 2. If the request is to remove the entire legally recorded property, or a portion thereof, the lowest lot elevation must be provided on Form 2.
- Please include a map scale and North arrow on all maps submitted.

For LOMR-Fs and CLOMR-Fs, the following must be submitted in addition to the items listed above:

- Form 3 – Community Acknowledgment Form

For CLOMR-Fs, the following must be submitted in addition to the items listed above:

- Documented ESA compliance, which may include a copy of an Incidental Take Permit, an Incidental Take Statement, a "not likely to adversely affect" determination from the National Marine Fisheries Service (NMFS) or the U.S. Fish and Wildlife Service (USFWS), or an official letter from NMFS or USFWS concurring that the project has "No Effect" on proposed or listed species or designated critical habitat. Please refer to the MT-1 instructions for additional information.

Please do *not* submit original documents. Please retain a copy of all submitted documents for your records.

DHS-FEMA encourages the submission of all required data in a digital format (e.g. scanned documents and images on Compact Disc [CD]). Digital submissions help to further DHS-FEMA's Digital Vision and also may facilitate the processing of your request.

Incomplete submissions will result in processing delays. For additional information regarding this form, including where to obtain the supporting documents listed above, please refer to the MT-1 Form Instructions located at http://www.fema.gov/plan/prevent/fhm/dl_mt-1.shtm.

Processing Fee (see instructions for appropriate mailing address; or visit http://www.fema.gov/fhm/firm_fees.shtm for the most current fee schedule)

Revised fee schedules are published periodically, but no more than once annually, as noted in the **Federal Register**. Please note: single/multiple lot(s)/structure(s) LOMAs are fee exempt. The current review and processing fees are listed below:

Check the fee that applies to your request:

- \$325 (single lot/structure LOMR-F following a CLOMR-F)
- \$425 (single lot/structure LOMR-F)
- \$500 (single lot/structure CLOMA or CLOMR-F)
- \$700 (multiple lot/structure LOMR-F following a CLOMR-F, or multiple lot/structure CLOMA)
- \$800 (multiple lot/structure LOMR-F or CLOMR-F)

Please submit the Payment Information Form for remittance of applicable fees. Please make your check or money order payable to:
National Flood Insurance Program.

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Applicant's Name (required): Richard Lowry

Company (if applicable): MarkWest Liberty Midstream & Resources, L.L.C.

Mailing Address (required):

Daytime Telephone No. (required):

4600 Barry Ct., Suite 500 Canonsburg, PA 15317

E-Mail Address (optional): By checking here you may receive correspondence electronically at the email address provided):

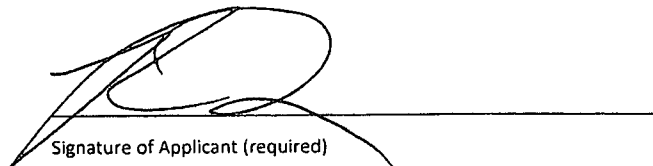
Fax No. (optional):

Richard.Lowry@markwest.com

Date (required)

4/17/17

Signature of Applicant (required)



PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this data collection is estimated to average 1.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and submitting the form. This collection is required to obtain or retain benefits. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0015). **NOTE: Do not send your completed form to this address.**

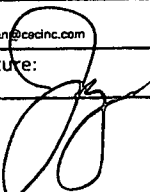
This form must be completed for requests and must be completed and signed by a registered professional engineer or licensed land surveyor. A DHS - FEMA National Flood Insurance Program (NFIP) Elevation Certificate may be submitted in lieu of this form for single structure requests.

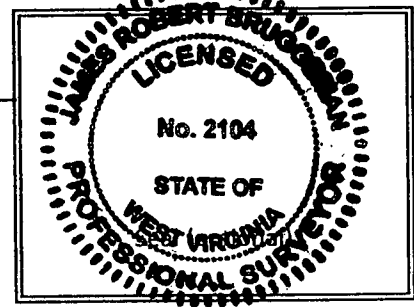
For requests to remove a structure on natural grade OR on engineered fill from the Special Flood Hazard Area (SFHA), submit the lowest adjacent grade (the lowest ground touching the structure), **including an attached deck or garage**. For requests to remove an entire parcel of land from the SFHA, provide the lowest lot elevation; or, if the request involves an area described by metes and bounds, provide the lowest elevation within the metes and bounds description. All measurements are to be rounded to nearest tenth of a foot. In order to process your request, all information on this form must be completed **in its entirety**. Incomplete submissions will result in processing delays.

- NFIP Community Number: 540024 Property Name or Address: 218 Swisher Lane, West Union, 26456
- Are the elevations listed below based on existing or proposed conditions? (Check one)
- For the existing or proposed structures listed below, what are the types of construction? (check all that apply)
 crawl space slab on grade basement/enclosure other (explain)
- Has DHS - FEMA identified this area as subject to land subsidence or uplift? (see instructions) Yes No
 If yes, what is the date of the current re-leveling? / (month/year)
- What is the elevation datum? NGVD 29 NAVD 88 Other (explain)
 If any of the elevations listed below were computed using a datum different than the datum used for the effective Flood Insurance Rate Map (FIRM) (e.g., NGVD 29 or NAVD 88), what was the conversion factor?
 Local Elevation +/- ft. = FIRM Datum
- Please provide the Latitude and Longitude of the most upstream edge of the **structure** (in decimal degrees to the nearest fifth decimal place):
 Indicate Datum: WGS84 NAD83 NAD27 Lat. 39.27970 Long. 80.69221
 Please provide the Latitude and Longitude of the most upstream edge of the **property** (in decimal degrees to the nearest fifth decimal place):
 Indicate Datum: WGS84 NAD83 NAD27 Lat. 39.27977 Long. 80.69253

Address	Lot Number	Block Number	Lowest Lot Elevation*	Lowest Adjacent Grade To Structure	Base Flood Elevation	BFE Source
218 Swisher Lane, West Union, WV 26456	31.6	19	811.2	812.50	811.15	HEC-RAS

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name: James R. Bruggeman	License No.: 2104	Expiration Date: 09/30/2017
Company Name: Civil & Environmental Consultants, Inc.	Telephone No.: 412-429-2324	
Email: jbruggeman@cecinc.com	Fax No.: 412-429-2115	
Signature: 	Date: 4/18/2017	



* For requests involving a portion of property, include the lowest ground elevation within the metes and bounds description.
 Please note: If the Lowest Adjacent Grade to Structure is the only elevation provided, a determination will be issued for the structure only.

DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY
COMMUNITY ACKNOWLEDGMENT FORM

O.M.B. NO. 1660-0015
 Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this data collection is estimated to average 1.38 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and submitting the form. This collection is required to obtain or retain benefits. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0015). NOTE: Do not send your completed form to this address.

This form must be completed for requests involving the existing or proposed placement of fill (complete Section A) **OR** to provide acknowledgment of this request to remove a property from the SFHA which was previously located within the regulatory floodway (complete Section B).

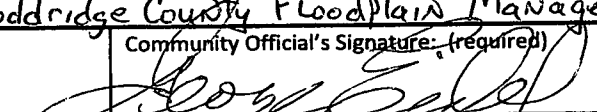
This form must be completed and signed by the official responsible for floodplain management in the community. The six digit NFIP community number and the subject property address must appear in the spaces provided below. Incomplete submissions will result in processing delays. Please refer to the MT-1 instructions for additional information about this form.

Community Number: 540024 Property Name or Address: 218 Swisher Lane, West Union, WV 26456

A. REQUESTS INVOLVING THE PLACEMENT OF FILL

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision Based on Fill (LOMR-F) or Conditional LOMR-F request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no fill be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a Conditional LOMR-F, will be obtained. For Conditional LOMR-F requests, the applicant has or will document Endangered Species Act (ESA) compliance to FEMA prior to issuance of the Conditional LOMR-F determination. For LOMR-F requests, I acknowledge that compliance with Sections 9 and 10 of the ESA has been achieved independently of FEMA's process. Section 9 of the ESA prohibits anyone from "taking" or harming an endangered species. If an action might harm an endangered species, a permit is required from U.S. Fish and Wildlife Service or National Marine Fisheries Service under Section 10 of the ESA. For actions authorized, funded, or being carried out by Federal or State agencies, documentation from the agency showing its compliance with Section 7(a)(2) of the ESA will be submitted. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by DHS-FEMA, all analyses and documentation used to make this determination. For LOMR-F requests, we understand that this request is being forwarded to DHS-FEMA for a possible map revision.

Community Comments:

Community Official's Name and Title: <i>(Please Print or Type)</i> George Eidel Doddridge County Floodplain Manager	Telephone No.: 304-873-1343
Community Name: Doddridge County, WV	Community Official's Signature: <i>(required)</i> 
	Date: 4/19/2017

B. PROPERTY LOCATED WITHIN THE REGULATORY FLOODWAY

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this request for a LOMA. We understand that this request is being forwarded to DHS-FEMA to determine if this property has been inadvertently included in the regulatory floodway. We acknowledge that no fill on this property has been or will be placed within the designated regulatory floodway. We find that the completed or proposed project meets or is designed to meet all of the community floodplain management requirements.

Community Comments:

Community Official's Name and Title: <i>(Please Print or Type)</i>	Telephone No.:
Community Name:	Community Official's Signature <i>(required)</i> :
	Date:

**FEDERAL EMERGENCY MANAGEMENT AGENCY
PAYMENT INFORMATION FORM**

Community Name: Doddridge County, WV

Project Identifier: 218 Swisher Lane, West Union, WV 26456

THIS FORM MUST BE MAILED, ALONG WITH THE APPROPRIATE FEE, TO THE ADDRESS BELOW OR FAXED TO THE FAX NUMBER BELOW.

Please make check or money order payable to the National Flood Insurance Program.

Type of Request:

- MT-1 application }
 MT-2 application }

LOMC Clearinghouse
 847 South Pickett Street
 Alexandria, VA 22304-4605
 Attn.: LOMC Manager

- EDR application }

FEMA Project Library
 847 South Pickett Street
 Alexandria, VA 22304-4605
 FAX (703) 212-4090

Request No. (if known): _____ Check No.: _____ Amount: \$325.00

- INITIAL FEE* FINAL FEE FEE BALANCE** MASTER CARD VISA CHECK MONEY ORDER

*Note: Check only for EDR and/or Alluvial Fan requests (as appropriate).

**Note: Check only if submitting a corrected fee for an ongoing request.

COMPLETE THIS SECTION ONLY IF PAYING BY CREDIT CARD

CARD NUMBER

EXP. DATE

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Month		Year				

_____ Date _____ Signature

NAME (AS IT APPEARS ON CARD): _____
 (please print or type)

ADDRESS: _____
 (for your credit card receipt-please print or type)

DAYTIME PHONE: _____

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
A1. Building Owner's Name MarkWest Liberty Midstream & Resources, LLC		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane		Company NAIC Number:
City West Union	State West Virginia	ZIP Code 26456
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Doddridge County-Sheet 19, Lot 31.6 (Liberty Parcel)		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Administration-Offices</u>		
A5. Latitude/Longitude: Lat. <u>39-16-46</u> Long. <u>-80-41-30</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983		
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>1A</u>		
A8. For a building with a crawlspace or enclosure(s):		
a) Square footage of crawlspace or enclosure(s) _____ sq ft		
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____		
c) Total net area of flood openings in A8.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		
A9. For a building with an attached garage:		
a) Square footage of attached garage _____ sq ft		
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____		
c) Total net area of flood openings in A9.b _____ sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number Town of West Union 540025			B2. County Name Doddridge County		B3. State West Virginia
B4. Map/Panel Number 54017C0140	B5. Suffix C	B6. FIRM Index Date 03-18-1991	B7. FIRM Panel Effective/ Revised Date 10-04-2011	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 811.15
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input checked="" type="checkbox"/> Other/Source: <u>HEC-RAS</u>					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane			Policy Number:
City West Union	State West Virginia	ZIP Code 26456	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: See Opus Solution Vertical Datum: NAVD 88

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- | | | | |
|---|---------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>813.47</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>N/A</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>N/A</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>N/A</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>813.00</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>812.50</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>813.40</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>N/A</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name James R. Bruggeman	License Number No. 2104		
Title Project Manager			
Company Name Civil & Environmental Consultants, Inc.			
Address 333 Baldwin Road			
City Pittsburgh	State Pennsylvania		ZIP Code 15205
Signature 	Date 04-05-2017	Telephone (412) 429-2324	Ext. 1155
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.			
Comments (including type of equipment and location, per C2(e), if applicable) The equipment servicing the building is located on the north side of the building.			

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane			Policy Number:
City West Union	State West Virginia	ZIP Code 26456	Company NAIC Number

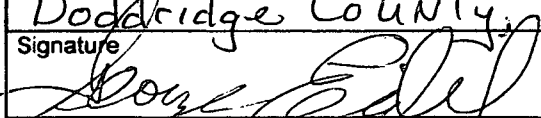
SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number <u>15-391</u>	G5. Date Permit Issued <u>2/26/2016</u>	G6. Date Certificate of Compliance/Occupancy Issued <u>April 1, 2017 #17-001</u>
------------------------------------	--	---

- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: 813.47 feet meters Datum NAVD88
- G9. BFE or (in Zone AO) depth of flooding at the building site: 811.15 feet meters Datum NAVD88
- G10. Community's design flood elevation: 811 feet meters Datum NAVD88

Local Official's Name <u>George Eidel</u>	Title <u>Floodplain Manager</u>
Community Name <u>Doddridge County, WV</u>	Telephone <u>304-873-1343</u>
Signature 	Date <u>4/19/2017</u>

Comments (including type of equipment and location, per C2(e), if applicable)

Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008
Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane			Policy Number:
City West Union	State West Virginia	ZIP Code 26456	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One

Photo One Caption Front of Building-West (taken 03/30/2017)

Clear Photo One



Photo Two

Photo Two Caption Side of building-North (taken 03/30/2017)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008
Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 218 Swisher Lane			Policy Number:
City West Union	State West Virginia	ZIP Code 26456	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Photo Three

Photo Three

Photo Three Caption

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

Clear Photo Four

From: opus
To: Baker, Evan;
Subject: OPUS solution : log0621r.tps 000309346
Date: Monday, August 29, 2011 2:18:31 PM

FILE: log0621r.tps 000309346

NGS OPUS SOLUTION REPORT

=====

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: <http://www.ngs.noaa.gov/OPUS/about.html#accuracy>

USER: ebaker@cecinc.com
RINEX FILE: log0172r.11o

DATE: August 29, 2011
TIME: 18:18:09 UTC

SOFTWARE: page5 1108.09 master10.pl 060711 START: 2011/06/21
17:34:00
EPHEMERIS: igs16412.eph [precise] STOP: 2011/06/21 21:45:00
NAV FILE: brdc1720.11n OBS USED: 8826 / 9000 : 98%
ANT NAME: TPSGR3 NONE # FIXED AMB: 43 / 46 : 93%
ARP HEIGHT: 2.0 OVERALL RMS: 0.015(m)

REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00
(EPOCH:2011.4707)

X:	800339.546(m)	0.049(m)	800338.785(m)	0.049(m)
Y:	-4879235.170(m)	0.038(m)	-4879233.744(m)	0.038(m)
Z:	4015884.593(m)	0.042(m)	4015884.475(m)	0.042(m)

LAT:	39 16 19.33778	0.038(m)	39 16 19.36623	0.038(m)
E LON:	279 18 54.92433	0.048(m)	279 18 54.90263	0.048(m)
W LON:	80 41 5.07567	0.048(m)	80 41 5.09737	0.048(m)
EL HGT:	224.430(m)	0.045(m)	223.171(m)	0.045(m)
ORTHO HGT:	257.429(m)	0.077(m)	[NAVD88 (Computed using GEOID09)]	

	UTM COORDINATES	STATE PLANE COORDINATES
	UTM (Zone 17)	SPC (4701 WV N)
Northing (Y) [meters]	4347013.026	86383.267
Easting (X) [meters]	527193.821	497771.191
Convergence [degrees]	0.19955974	-0.75559723

Point Scale	0.99960911	0.99995971
Combined Factor	0.99957391	0.99992450

US NATIONAL GRID DESIGNATOR: 17SND2719347013(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL3933 51632.2	LS08 LOYOLA LS08 CORS ARP	N385849.217	W0801311.035	
DM5974 35370.3	WVBR BRIDGEPORT CORS ARP	N391828.884	W0801638.619	
DK8257 45072.7	WVS6 SAINT MARY'S CORS ARP	N392545.905	W0811000.259	

NEAREST NGS PUBLISHED CONTROL POINT

JX0256	X 80	N391646.3	W0804040.9	1014.9
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This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

U.S. Department of Homeland Security
500 C Street, SW
Washington, DC 20472 - _____

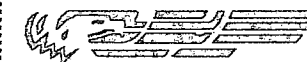
MT-RA-EM (Baker) 0302



FEMA



U.S. POSTAGE >>> PITNEY BOWES



ZIP 22304 \$ 000.48⁵
02 1W
0001399943 - - - - -

FEMA E-29



Federal Emergency Management Agency

Washington, D.C. 20472

February 19, 2016

THE HONORABLE GREGORY ROBINSON
PRESIDENT, DODDRIDGE COUNTY
COMMISSION
118 EAST COURT STREET
WEST UNION, WV 26456

CASE NO.: 16-03-0352C
COMMUNITY: DODDRIDGE COUNTY, WEST
VIRGINIA
(UNINCORPORATED AREAS)
COMMUNITY NO.: 540024

DEAR MR. ROBINSON:

This is in reference to a request that the Federal Emergency Management Agency (FEMA) determine if the property described in the enclosed document is located within an identified Special Flood Hazard Area, the area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood), on the effective National Flood Insurance Program (NFIP) map. Using the information submitted and the effective NFIP map, our determination is shown on the attached Conditional Letter of Map Revision based on Fill (CLOMR-F) Comment Document. This comment document provides additional information regarding the effective NFIP map, the legal description of the property and our comments regarding this proposed project.

Additional documents are enclosed which provide information regarding the subject property and CLOMR-Fs. Please see the List of Enclosures below to determine which documents are enclosed. Other attachments specific to this request may be included as referenced in the Determination/Comment document. If you have any questions about this letter or any of the enclosures, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605.

Sincerely,

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

LIST OF ENCLOSURES:

CLOMR-F COMMENT DOCUMENT

cc: Mr. Rick Lowry

FILED
2016 FEB 25 PM 1:43
RETHA FOSGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV



Federal Emergency Management Agency

Washington, D.C. 20472


CONDITIONAL LETTER OF MAP REVISION BASED ON FILL COMMENT DOCUMENT

ATTACHMENT 1 (ADDITIONAL CONSIDERATIONS)

LEGAL PROPERTY DESCRIPTION (CONTINUED)

BEGINNING FOR REFERENCE at an iron pipe set at the northwest corner of property of now or formerly Billy D. Carroll, as recorded in Deed Book Volume 140, Page 190, said point also being at the northeast corner of property of now or formerly Markwest Liberty Midstream & Resources, L.L.C. as recorded Deed Book Volume 346, Page 457, tract one, said point also being on the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, as recorded in Deed book Volume 216, Page 166, variable width; thence along the northerly line of land of now or formerly Markwest Liberty Midstream & Resources, L.L.C. and along the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, variable width, the following six (6) courses and distances, viz: thence South 77°19'37" West, 743.13' to an iron pipe set; thence South 55°33'48" West, 40.27' to an iron pipe set; thence South 59°34'48" West, 111.00' to an iron pipe set; thence South 65°43'48" West, 111.00' to an iron pipe set; thence South 67°29'54" West, 34.97' to an iron pipe set; thence North 20°36'12" West, 77.00' to an iron pipe set, said point being on the northerly line of land of now or formerly Dennis H. Powell, as recorded in Deed Book Volume 200, Page 532; thence continuing along the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, variable width, and the northerly line of land of now or formerly Dennis H. Powell the following twelve (12) courses and distances, viz: thence South 72°53'48" West, 52.00' to an iron pipe set; thence South 77°41'48" West, 103.00' to an iron pipe set; thence South 81°59'48" West, 103.00' to an iron pipe set; thence South 86°58'48" West, 103.00' to an iron pipe set; thence North 84°41'12" West, 103.00' to an iron pipe set; thence North 81°03'12" West, 103.00' to an iron pipe set; thence North 74°31'12" West, 103.00' to an iron pipe set; thence North 69°06'12" West, 103.00' to an iron pipe set; thence North 62°17'12" West, 103.00' to an iron pipe set; thence North 57°06'12" West, 103.00' to an iron pipe set; thence North 52°46'12" West, 103.00' to an iron pipe set; thence North 48°29'12" West, 2.54' to an iron pipe set northeast corner of land of now or formerly Markwest Liberty Midstream & Resources, L.L.C., thence along the northerly line of land now or formerly Markwest Liberty Midstream & Resources, L.L.C. and along the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, variable width, North 48°29'12" West, 488.90' to a calculated point; thence through land of now or formerly Markwest Liberty Midstream & Resources, L.L.C., South 41°39'35" West, 12.17' to a calculated point on the existing northerly line of Zone AE, 100 Year Floodplain, as designated by DHS-FEMA, being the TRUE PLACE OF BEGINNING; thence through the land of now or formerly Markwest Liberty Midstream & Resources, L.L.C. and along the revised northerly line of Zone AE, 100 Year Floodplain the following seven (7) courses and distances, viz: South 41°39'35" West, 164.97' to a calculated point; thence South 43°07'01" West, 94.05' to a calculated point; thence North 49°40'08" West, 137.77' to a calculated point; thence North 46°56'15" West, 70.86' to a calculated point; thence North 49°12'34" West, 86.02' to a calculated point; thence North 46°09'20" West, 72.46' to a calculated point; thence North 41°19'27" East, 123.80' to a calculated point; thence North 43°30'49" East, 49.92' to a calculated point; thence North 41°00'07" East, 91.32' to a calculated point on the existing northerly line of Zone AE, 100 Year Floodplain, as designated by DHS-FEMA; thence along the existing northerly line of Zone AE, 100 Year Floodplain, as designated by DHS-FEMA the following seven (7) courses and distances, viz: South 51°56'50" East, 51.09' to a

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605.


 Luis Rodriguez, P.E., Chief
 Engineering Management Branch
 Federal Insurance and Mitigation Administration



Federal Emergency Management Agency

Washington, D.C. 20472

CONDITIONAL LETTER OF MAP REVISION BASED ON FILL COMMENT DOCUMENT

ATTACHMENT 1 (ADDITIONAL CONSIDERATIONS)

calculated point; thence South 46°20'08" East, 139.37' to a calculated point; thence South 49°13'18" East, 71.32' to a calculated point; thence South 45°27'13" East, 108.09' to a calculated point at the TRUE PLACE OF BEGINNING

FILL RECOMMENDATION (This Additional Consideration applies to the preceding 1 Property.)

The minimum NFIP criteria for removal of the subject area based on fill have been met for this request and the community in which the property is located has certified that the area and any subsequent structure(s) built on the filled area are reasonably safe from flooding. FEMA's Technical Bulletin 10-01 provides guidance for the construction of buildings on land elevated above the base flood elevation through the placement of fill. A copy of Technical Bulletin 10-01 can be obtained by calling the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or from our web site at <http://www.fema.gov/mit/tb1001.pdf>. Although the minimum NFIP standards no longer apply to this area, some communities may have floodplain management regulations that are more restrictive and may continue to enforce some or all of their requirements in areas outside the Special Flood Hazard Area.

PORTIONS OF THE PROPERTY REMAIN IN THE SFHA (This Additional Consideration applies to the preceding 1 Property.)

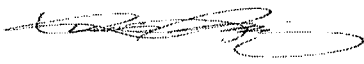
Portions of this property, but not the subject of the Determination/Comment document, may remain in the Special Flood Hazard Area. Therefore, any future construction or substantial improvement on the property remains subject to Federal, State/Commonwealth, and local regulations for floodplain management.

CONDITIONAL LOMR-F DETERMINATION (This Additional Consideration applies to the preceding 1 Property.)

Comments regarding this conditional request are based on the flood data presently available. Our final determination will be made upon receipt of this Comment Document, certified as-built elevations and/or certified as-built survey. Since this request is for a Conditional Letter of Map Revision based on Fill, we will also require the applicable processing fee, and the "Community Acknowledgement" form. Please note that additional items may be required before a final as-built determination is issued.

This letter does not relieve Federal agencies of the need to comply with Executive Order 11988 on Floodplain Management in carrying out their responsibilities and providing Federally undertaken, financed, or assisted construction and improvements, or in their regulating or licensing activities.

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the FEMA Map Assistance Center toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605.


Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

Doddridge County Floodplain Permit Application (New)

Permits applications received November 4, 2015 through November 16, 2015

Announced November 17, 2015

Permit Application # 15-391

MarkWest Liberty Midstream & Resources, LLC.

Administration Bldg.

Location: Swisher Lane

Received: 10/30/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Administration and Storage Bldg.

Permit Application # 15-392

EQM Gathering OPCO, LLC

EQT MOSA So 28 Pipeline Project

Location: Meathouse Fork 39.262229, -80.727094

Received: 10/30/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Well Line

Permit Application # 15-393

Antero Resources

Meek 2 Access Road

Location: Sherwood-Greenbrier Rd

Received: 11/09/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Access Road

Permit Application # 15-394 – NOT IN FLOODPLAIN

Antero Resources

Sandstrom Facility Frame Site

Location: On The West Side of Old County Rt. 36 (Gum Run Rd)

Received: 11/09/15

Announced: 11/17/15

Publication Date: Week of 11/16/15

20-Day Comment Period Window (from Commission Meeting) 12/07/2015

90-Day Approval Window (from date of receipt) N/A

Project Description: Water Treatment Facility

The Doddridge Independent

The Doddridge Independent PUBLISHER'S CERTIFICATE

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County, West Virginia, do hereby certify that:

Permit Application # 15-391

Please take notice that on the 30th day of October, 2015

Mark West Liberty Midstream & Resources, LLC.

filed an application for a Floodplain Permit to develop land located at or about:

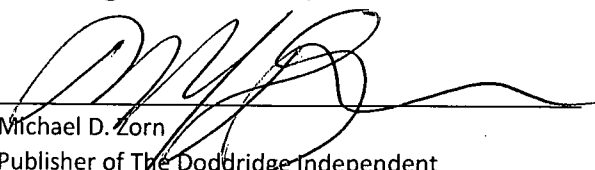
**Administration Bldg.
Location: Swisher Lane**

was published in The Doddridge Independent
2 times commencing on Friday, November 20, 2015 and
Ending on Friday, November 27, 2015 at the request of:

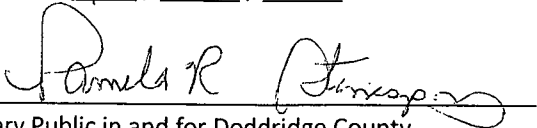
**George Eidel, Doddridge County Floodplain
Manager & Doddridge County Commission**

Given under my hand this Friday, November 27, 2015

The publisher's fee for said publication is:
\$ 25.27 1st Run/\$ 18.95 Subsequent Runs
This Legal Ad Total: \$ 44.22


Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on
this date: 11/30/15


Notary Public in and for Doddridge County
My Commission expires on

The 17th day of May 2019

Public Notice • Legal Notice

Doddridge County
Permit Application # 15-391

Please take notice that on the 30th day of October, 2015
Mark West Liberty Midstream & Resources, LLC
filed an application for a Floodplain Permit to develop land located at or about:

**Administration Bldg.
Location: Swisher Lane**

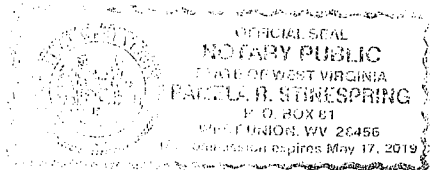
Received: 10/30/15
Announced: 11/17/15

Publication Date: Week of 11/16/15
20-Day Comment Period Window (from Commission Meeting) 11/20/2015
90-Day Approval Window (from date of receipt) N/A

Project Description: Administration and Storage Bldg.
The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. As this project is outside the FEMA identified floodplain of Doddridge County, Doddridge County Floodplain Management has no regulatory authority. Any interested persons who desire to comment shall present the same in writing by November 30, 2015, delivered to:

Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
George Eidel, Doddridge County Flood Plain Manager

11/20-11/27





LEGEND	
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING EDGE OF CONCRETE
	EXISTING PAVED ROADWAY
	EXISTING UNPAVED DRIVEWAY
	EXISTING FENCE
	EXISTING GUIDERAIL
	EXISTING GAS LINE
	EXISTING FIBER OPTIC LINE
	EXISTING CABLE LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING STORM SEWER LINE
	EXISTING UTILITY POLE W/ GUY WIRE
	EXISTING GAS VALVE/METER
	EXISTING STORM INLET/CATCH BASIN
	EXISTING TREELINE
	PROPOSED TREELINE
	EXISTING WELL
	EXISTING STREAM
	EXISTING WETLAND
	PROPOSED ASPHALT WEDGE CURB
	PROPOSED ASPHALT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED SANITARY
	PROPOSED WATERLINE
	PROPOSED LIGHT POLE
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED GUIDERAIL
	PROPOSED ROOF DRAIN
	PROPOSED STORM SEWER
	PROPOSED STORM MANHOLE
	PROPOSED INLET
	PROPOSED ENDWALL

REVISION RECORD

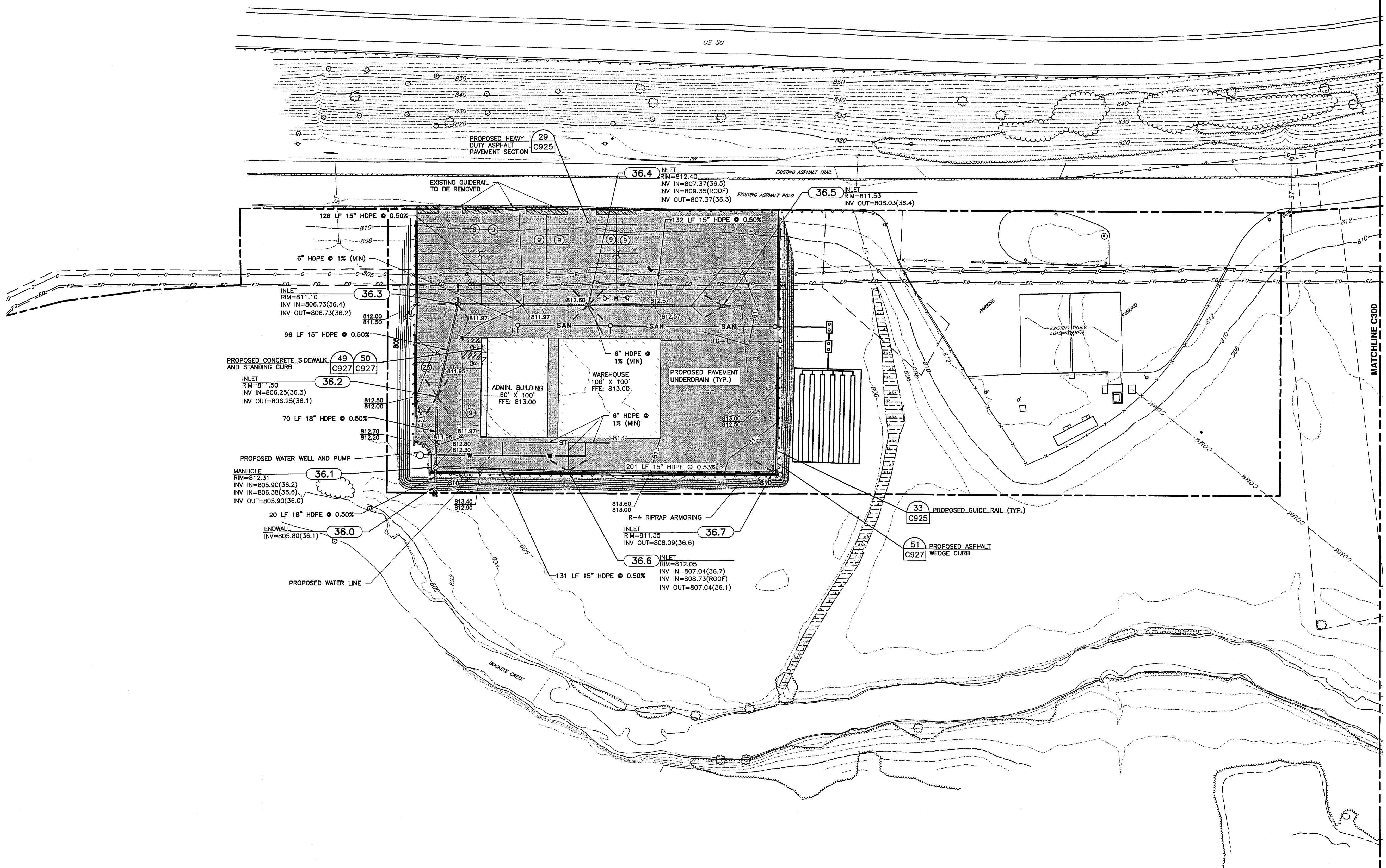
NO.	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
 333 Baldwin Road - Pittsburgh, PA 15205
 412-429-2324 - 800-365-2324
 www.cecinc.com

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC
SHERWOOD GAS PROCESSING PLANTS 6 & 7
 DODDRIDGE COUNTY, WEST VIRGINIA

GRADING AND STORM SEWER PLAN

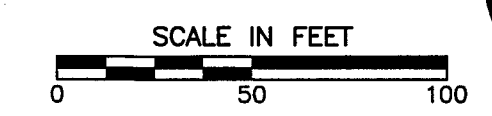
DRAWING NO.: **C304**



PARKING DATA

STANDARD STALLS PROVIDED	86
ACCESSIBLE STALLS PROVIDED	4
TOTAL PARKING STALLS PROVIDED	90

- REFERENCE**
- TOPOGRAPHIC SURVEY PROVIDED BY NOR-EAST MAPPING ON 9/20/2014 AND 9/12/2014.
 - STREAM AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 - PLANT LAYOUT PROVIDED BY EXTERIAN AS AN AUTOCAD FILE TITLED "110-811.4004 - CP14_WWEXTERIANOVERLAY_XREFGROUND.dwg", DATED 1/7/2014.
 - EXISTING UTILITIES LOCATED BY CEC AND CHAPMAN CORPORATION.



M.U.W.V. TICKET NUMBER: 112080274
 * HAND SIGNATURE ON FILE

P:\2011\110-811-4004\DWG\Task 2008.dwg, R:\2011\110-811-4004-001-026.dwg, C:\Users\jcham\Documents\110-811-4004-001-026.dwg, 12/22/2015 - 10:49:20 AM