

SHEET 0 OF 90

PLOTTED: 03:47 PM on Friday, July 17, 2015  
 BY: Division  
 FILE: M:\2012\16121849-drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE.SET\00-Overall-vicinity\_map.dgn

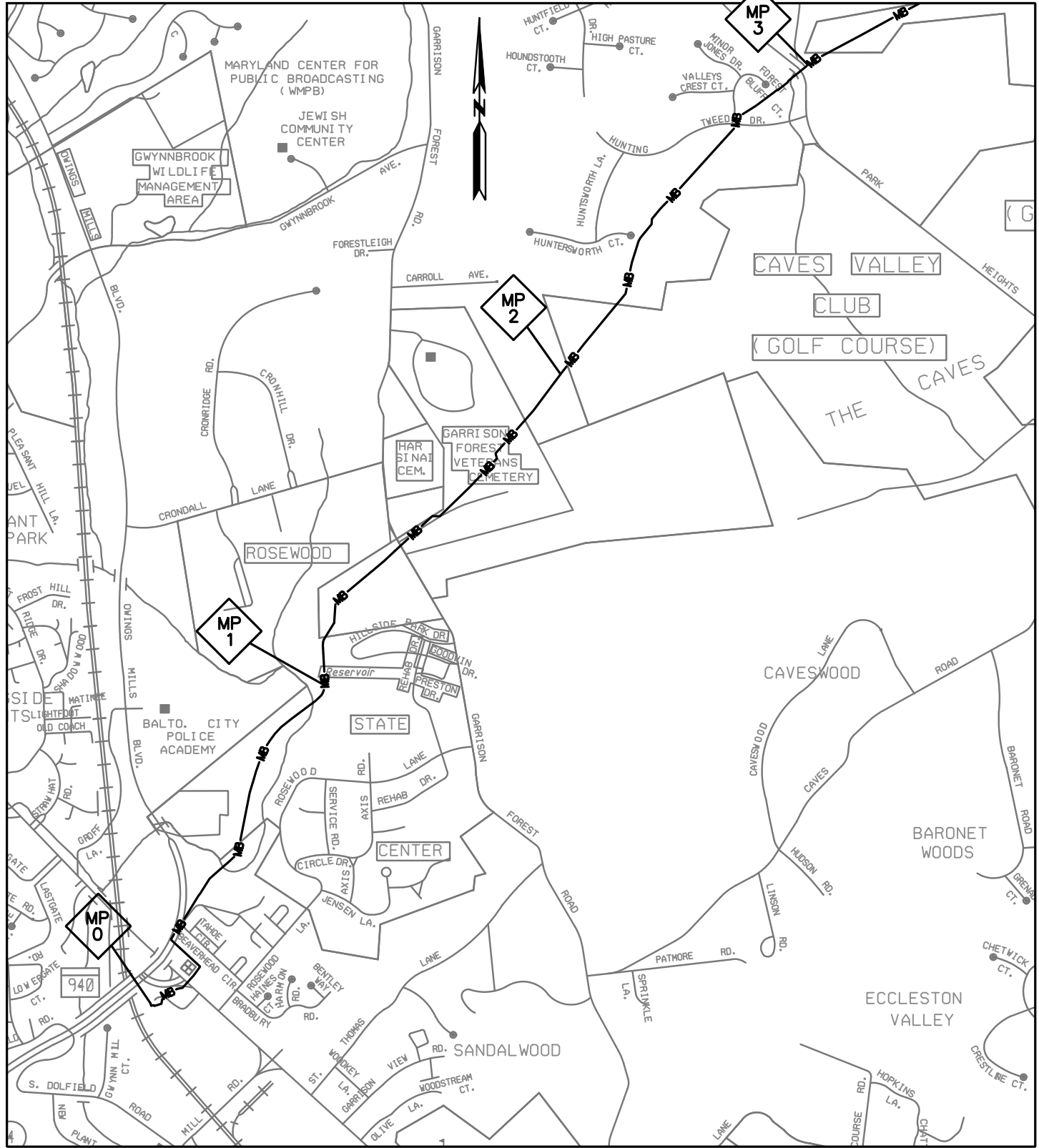


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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**OVERALL VICINITY MAP**

PLOTTED: 01:58 PM on Thursday, July 23, 2015  
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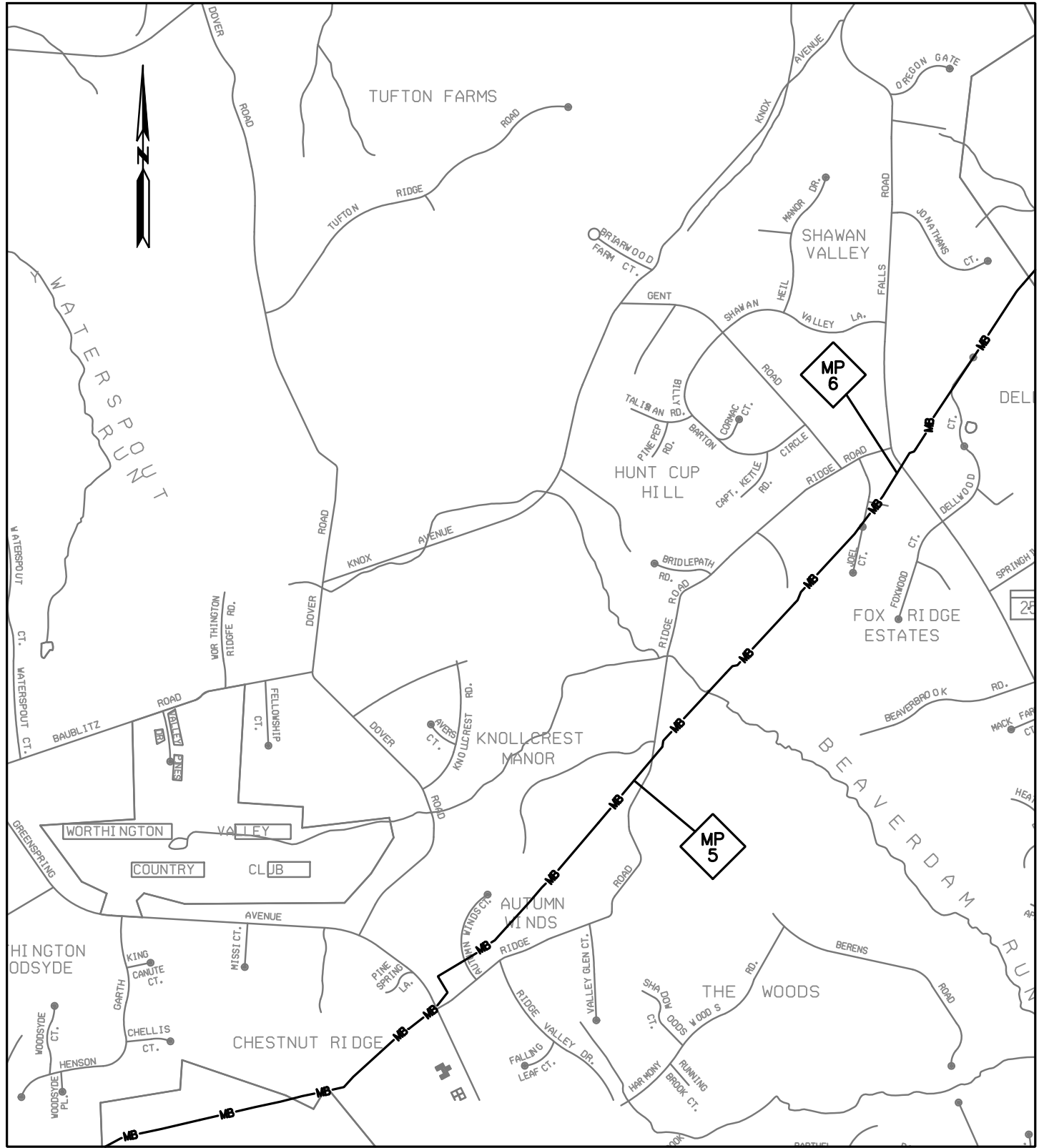
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**VICINITY MAP 1**

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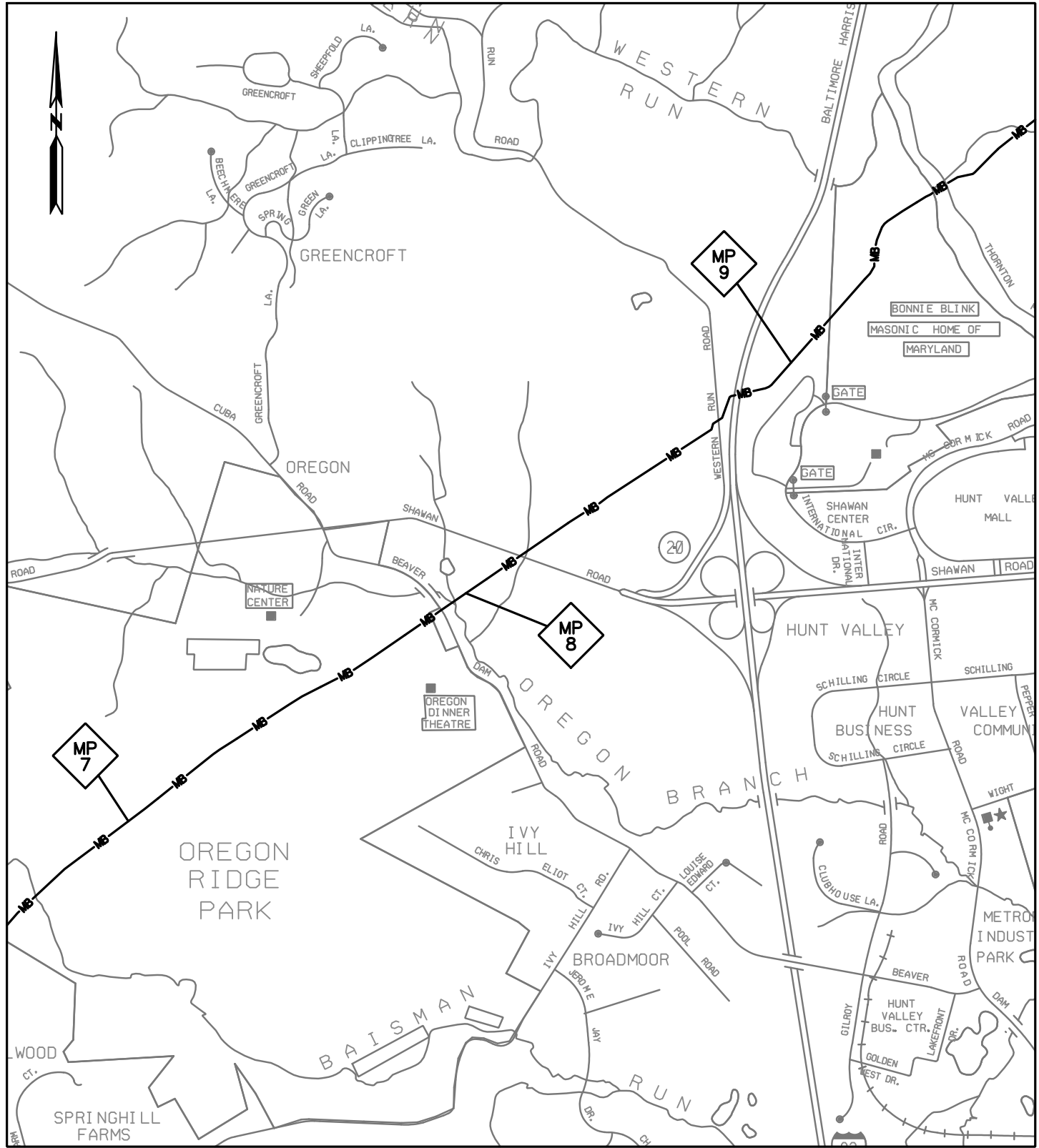
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**VICINITY MAP 2**

PLOTTED: '03:10 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\drawings\IMPACT\_PLATES\HDD\\_IMPACT\_PLATE\\_SET\_V03-Plate-LINE\_MB-vicinity\_map-3.dgn



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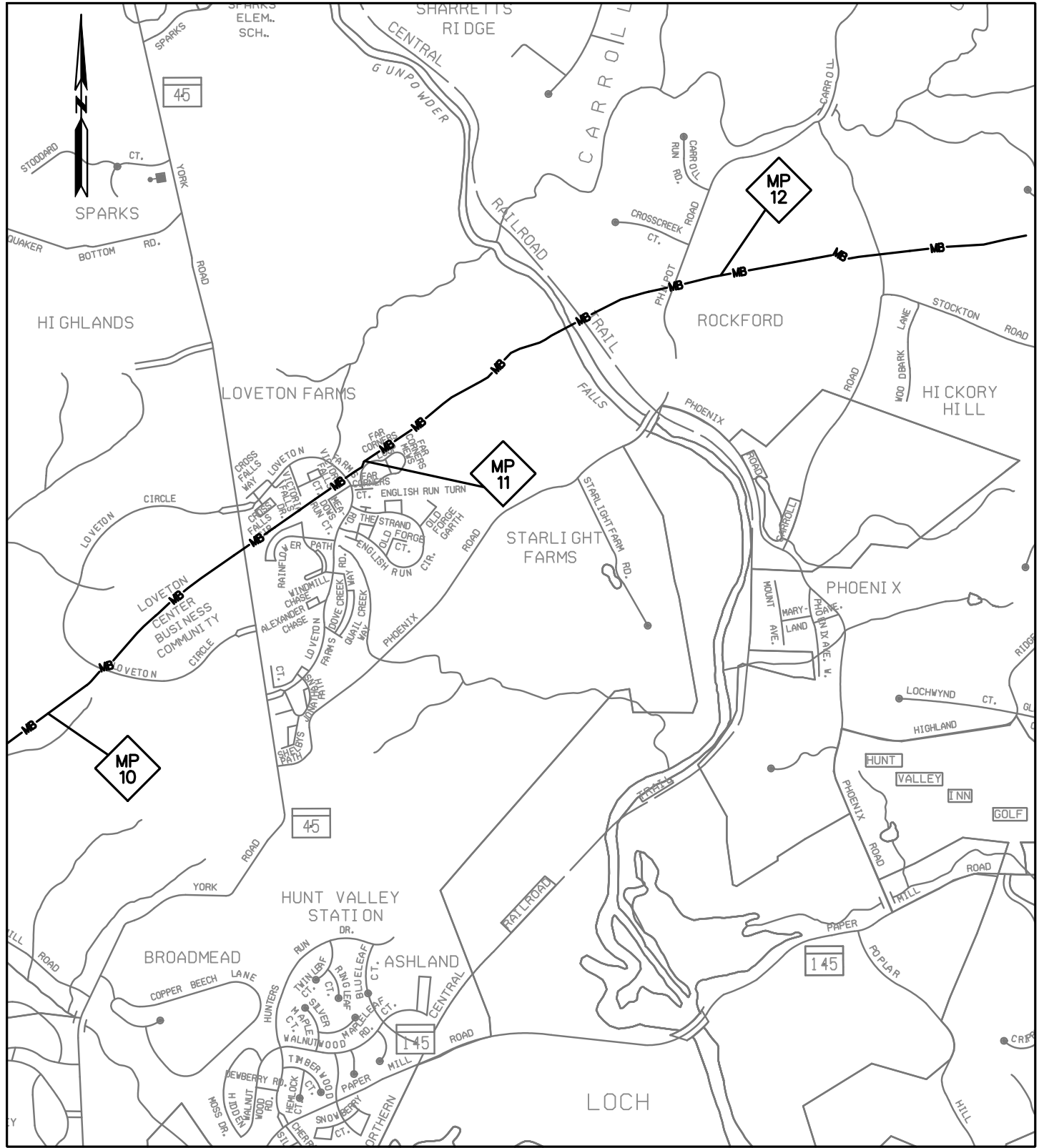
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**VICINITY MAP 3**

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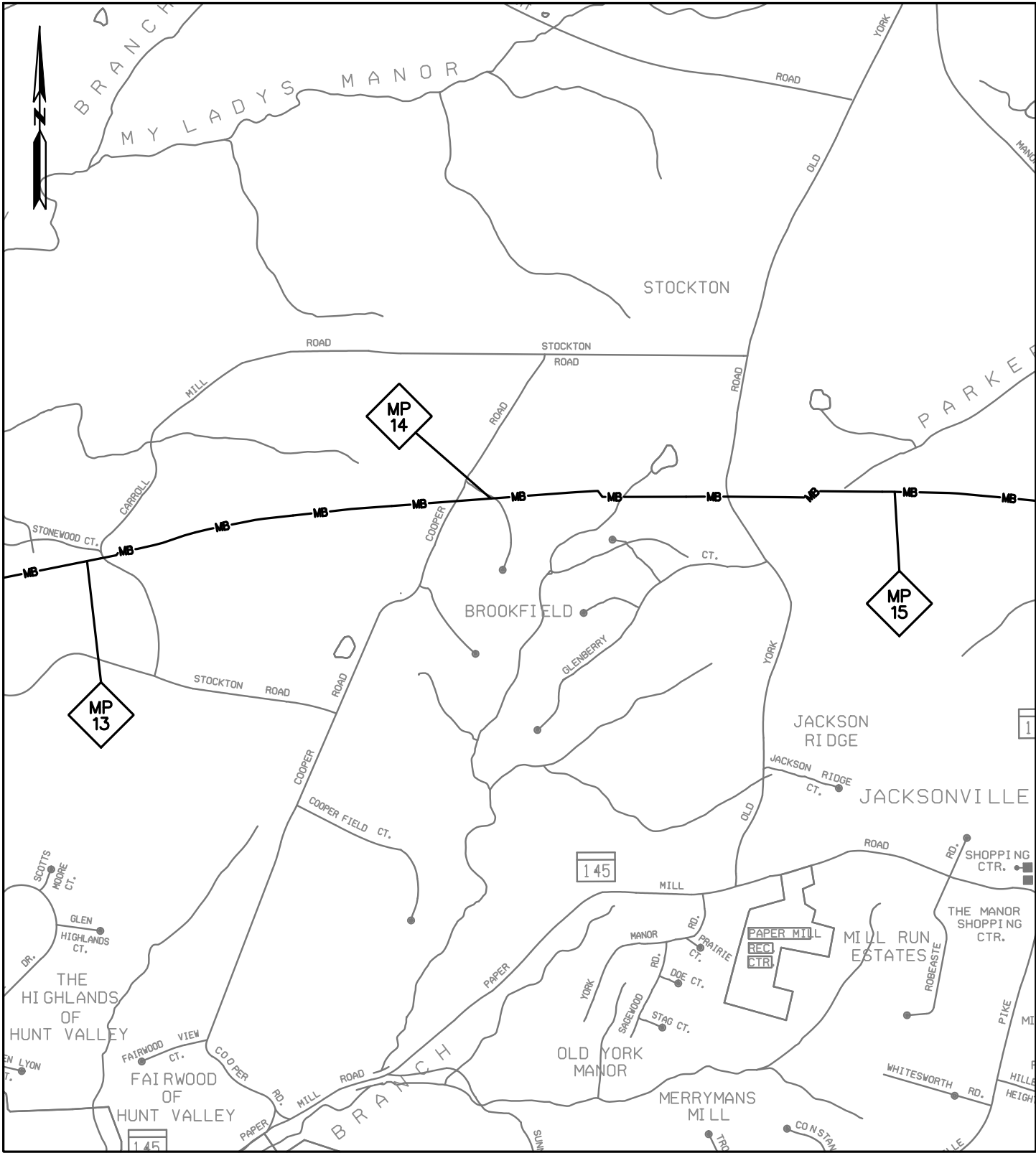
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 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**VICINITY MAP 4**

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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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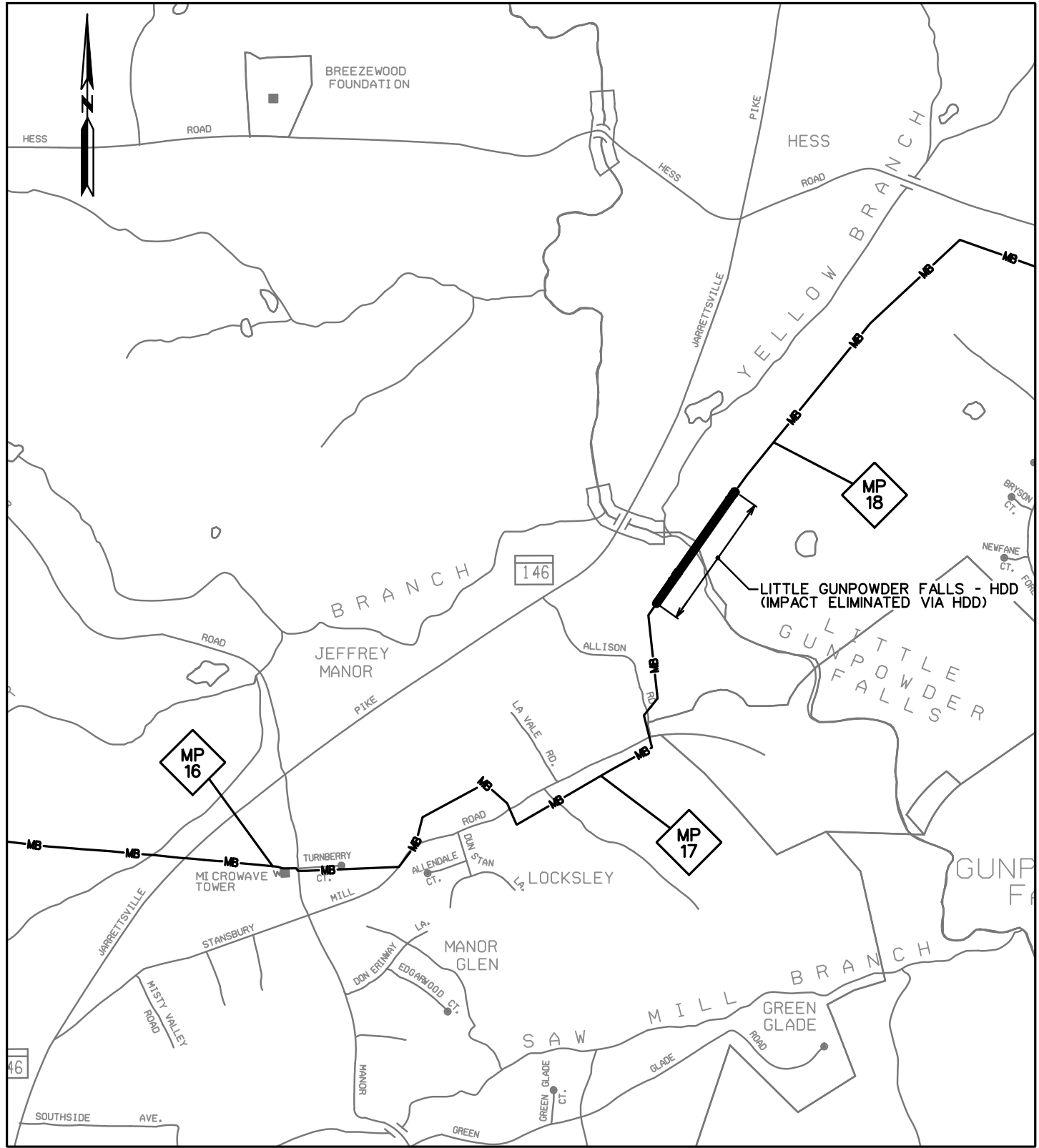


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**VICINITY MAP 5**

PLOTTED: '03:10 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: PO50 Natural Res Emp  
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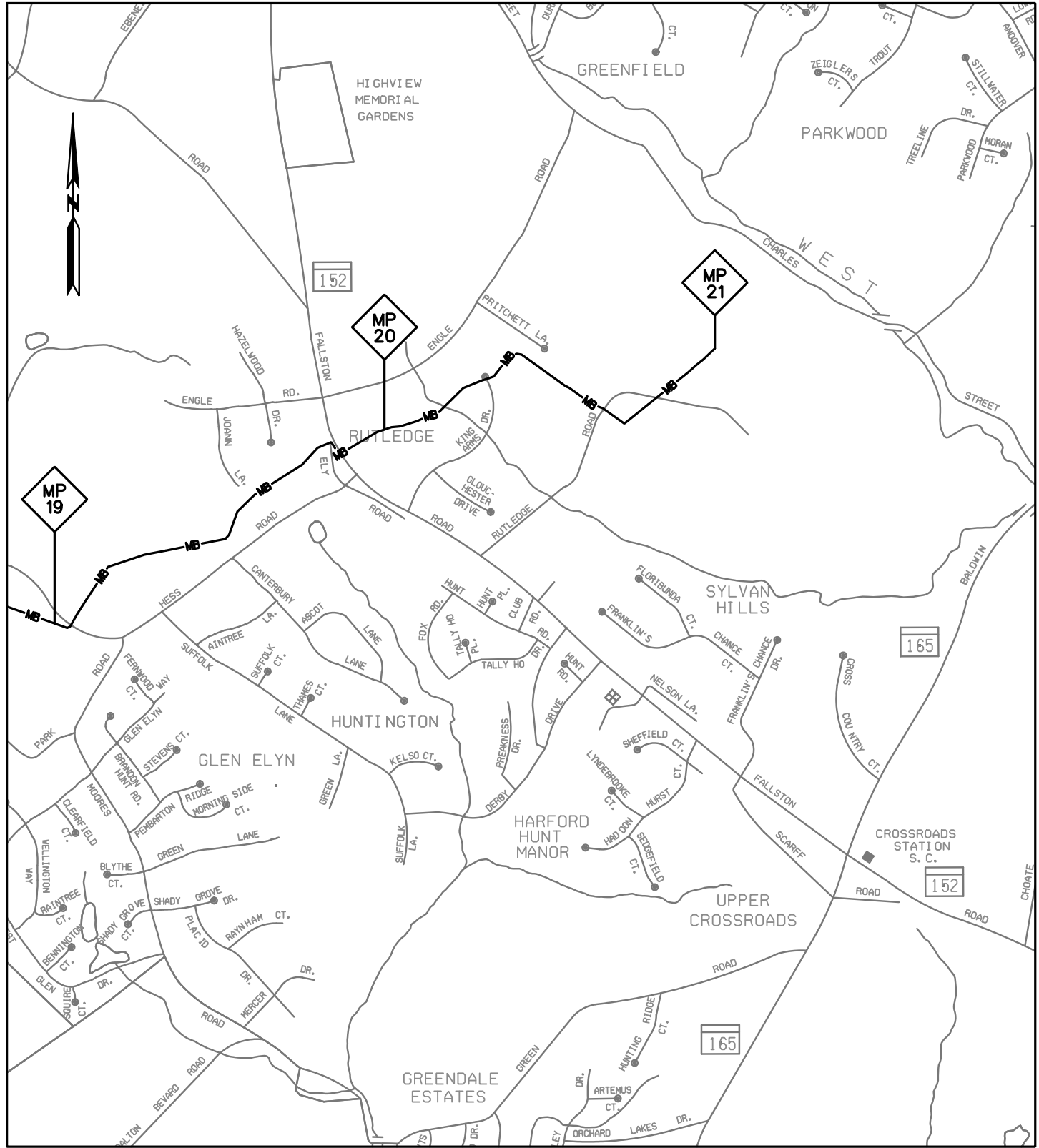
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**VICINITY MAP 6**

PLOTTED: '03:11 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: PO50 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\drawings\IMPACT\_PLATES\HDD\\_IMPACT\_PLATE\\_SET\_07-Plate-Line-MB-vicinity-map-7.dgn



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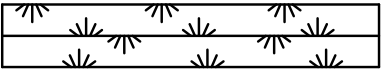
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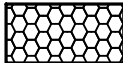
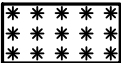

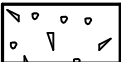
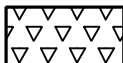

**VICINITY MAP 7**



# LEGEND

----- 600 -----	EX. CONTOUR
_____	EX. STORM DRAIN
_____ W _____	EX. WATER LINE
_____ FO _____	EX. FIBER OPTIC LINE
_____ // _____	EX. FOREIGN PIPELINE
_____ OH _____	EX. OVERHEAD ELECTRIC
_____ E _____	EX. UNDERGROUND ELECTRIC
_____ T _____	EX. UNDERGROUND TELEPHONE
_____ MA _____	EX. LINE MA GAS LINE
	EX. WOODS LINE
	EX. TREE
— X ————— X —	EX. FENCE
_____ - - - - - _____	EX. STREAM
_____ - - - - - _____	PROPERTY LINE
_____ - - - - - _____	EX. EASEMENT
— MB ————— MB —	PROPOSED LINE MB NATURAL GAS PIPELINE
_____ - - - - - _____	LINE MB PERMANENT RIGHT-OF-WAY
_____ - - - - - _____	LINE MB TEMPORARY RIGHT-OF-WAY
_____ - - - - - _____	LINE MB ADDITIONAL TEMPORARY WORKSPACE
_____ - - - - - _____	EXISTING LINE MA RIGHT-OF-WAY
• • • • •	PROPOSED ACCESS ROAD CENTERLINE
— X ————— X —	PROPOSED CONTRACTOR STAGING AREA
_____ - - - - - _____	100 YEAR FLOODPLAIN
_____ WUS _____	FIELD DELINEATED WATERS OF THE U.S.
	NON-TIDAL WETLAND BOUNDARY AND PFO / PEM / PSS BOUNDARY
_____ WB _____	25' MDE REGULATED WETLAND BUFFER
_____ LOD _____	LIMIT OF DISTURBANCE

# LEGEND FOR IMPACT TYPES

	TEMPORARY WATERS OF U.S. IMPACT		TEMPORARY NON-TIDAL PSS WETLAND IMPACT
	NON-TIDAL PFO WETLAND CONVERSION IMPACT		TEMPORARY NON-TIDAL PEM WETLAND IMPACT
	TEMPORARY NON-TIDAL PFO WETLAND IMPACT		PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
	NON-TIDAL PSS WETLAND CONVERSION IMPACT		TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT

SHEET 8 OF 90

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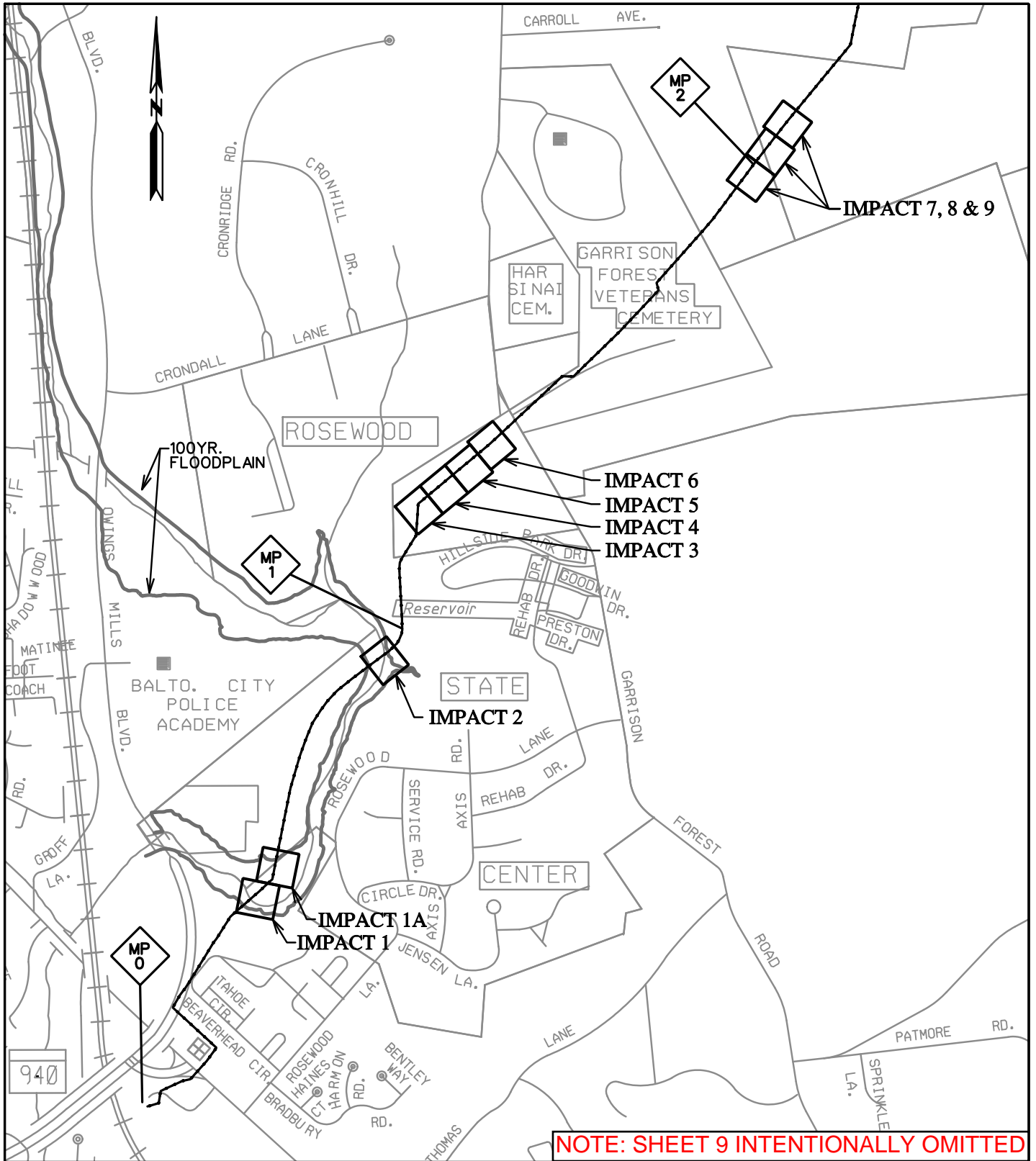


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 MDE PERMIT #12-NT-0433/ TRACKING #201261660

# LEGEND 1



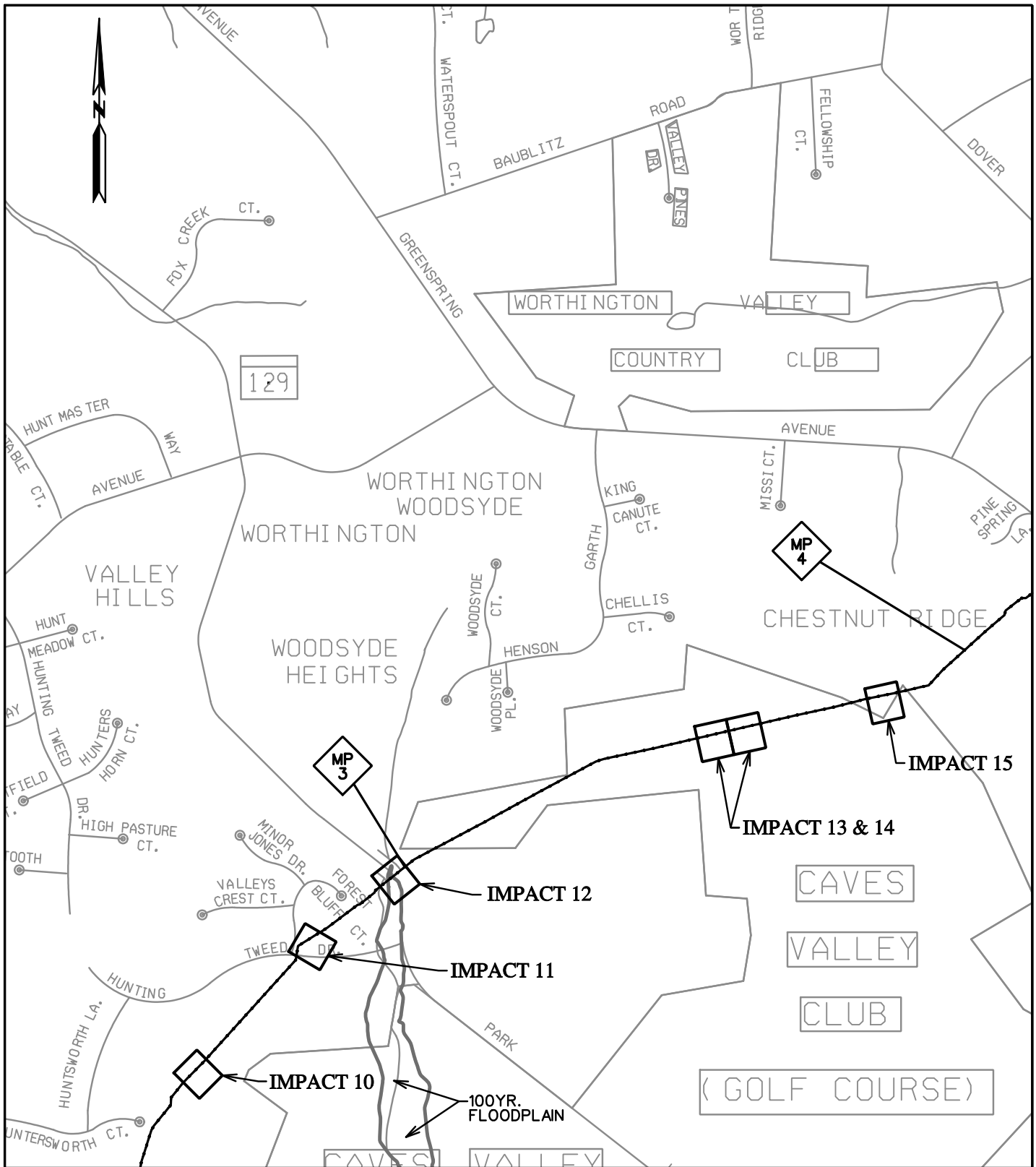
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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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**IMPACT LOCATION MAP 1**



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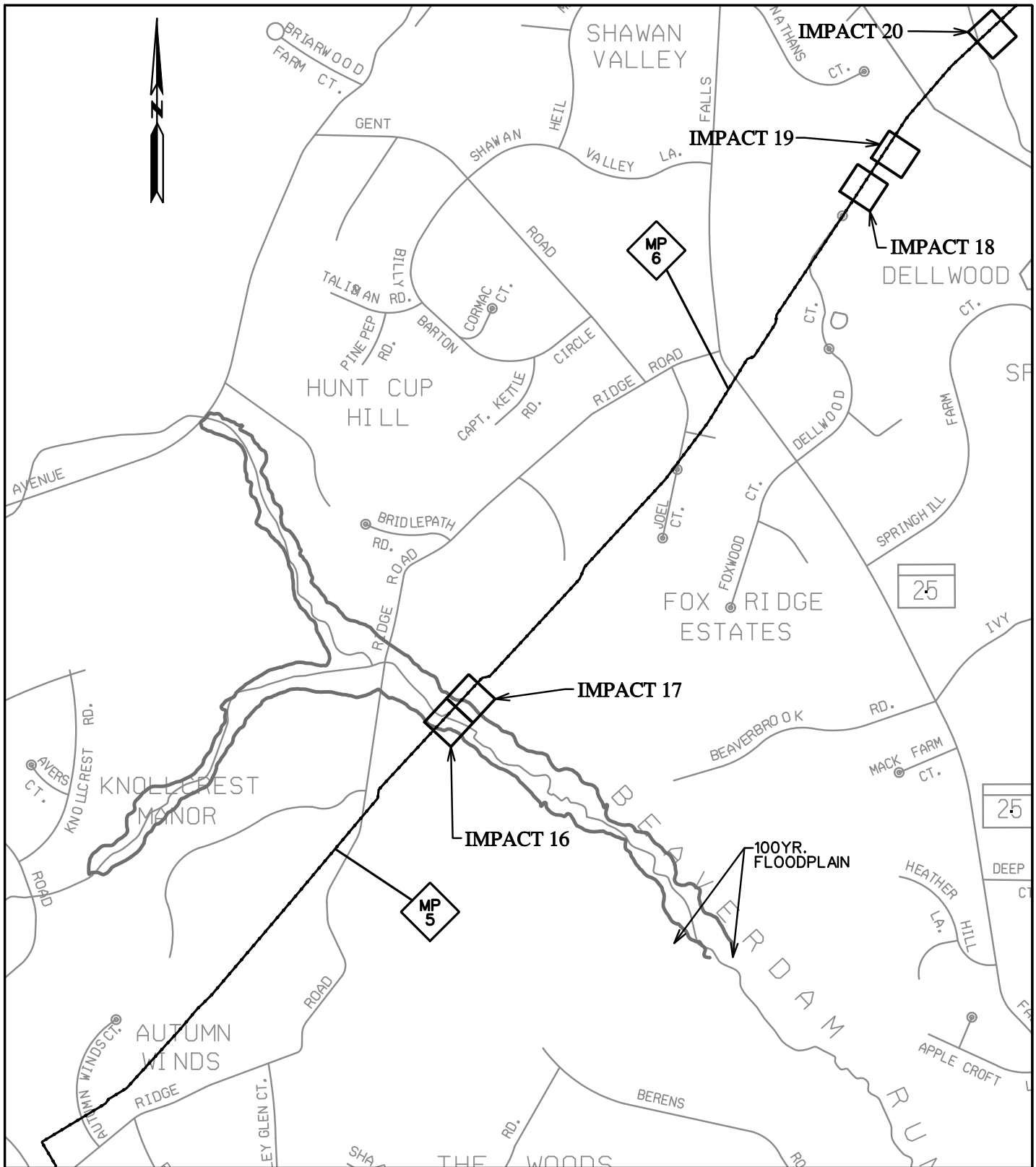
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LINE MB EXTENSION PROJECT  
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# IMPACT LOCATION MAP 2



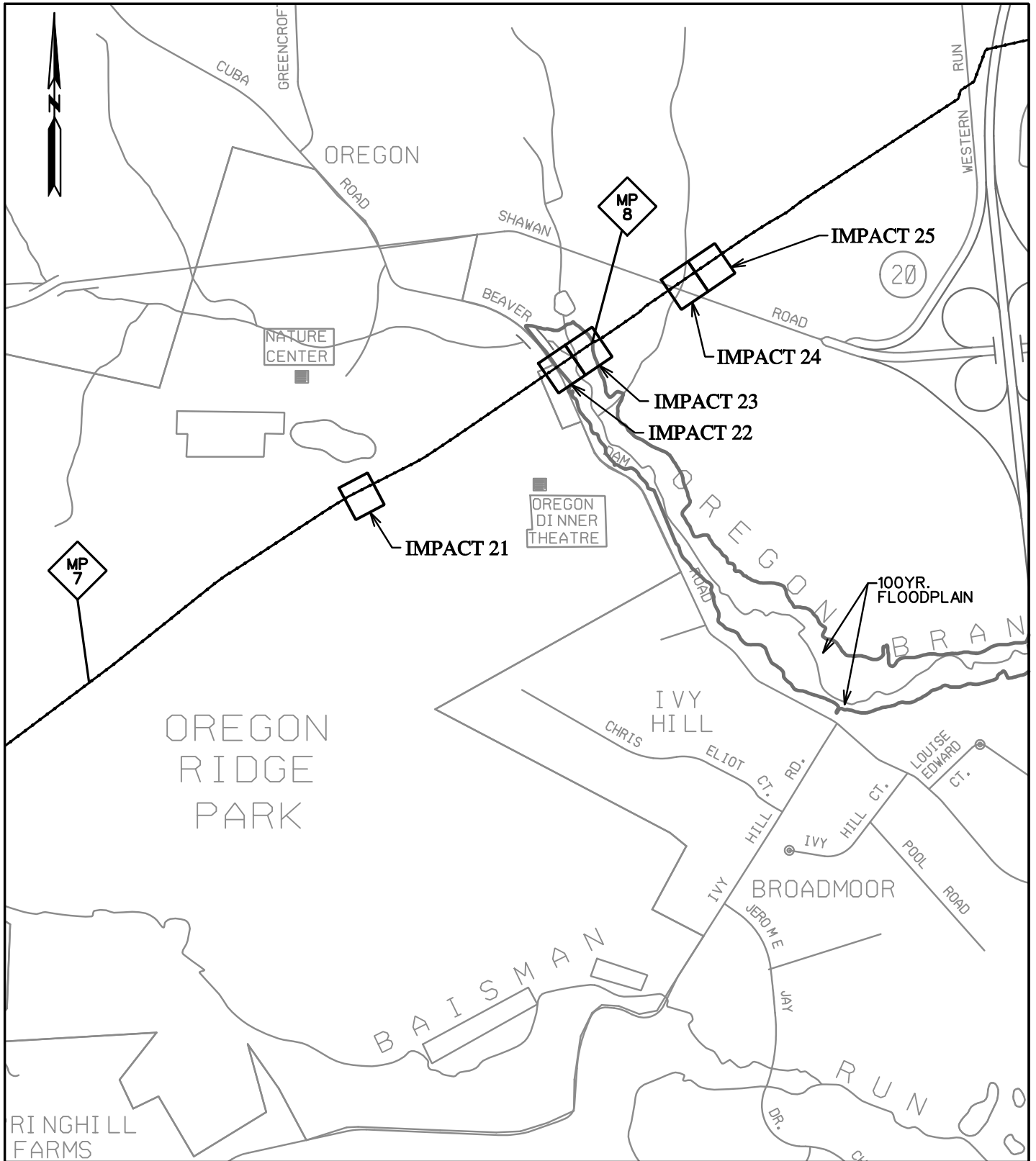
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**IMPACT LOCATION MAP 3**



SHEET 13 OF 90

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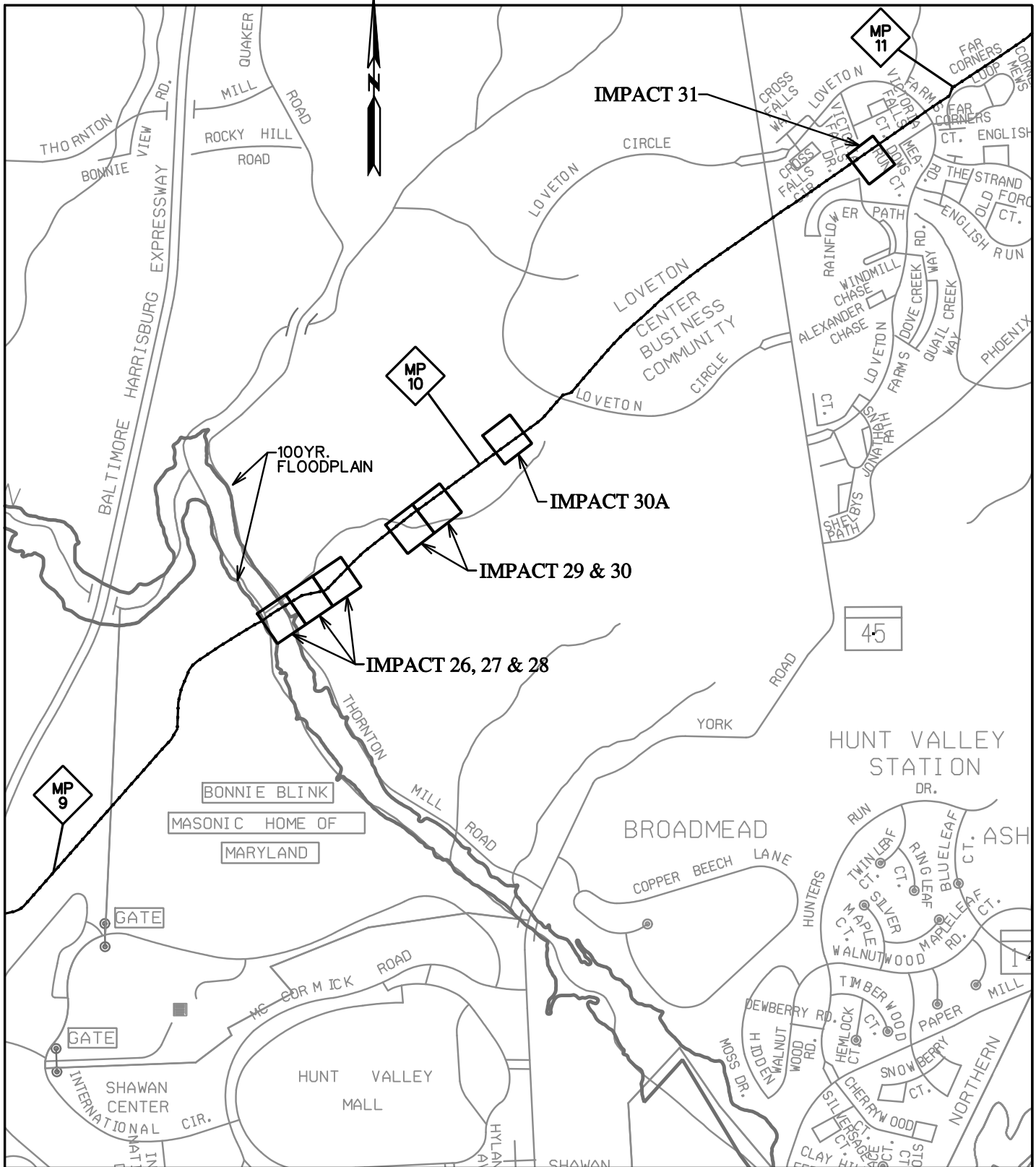
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# IMPACT LOCATION MAP 4



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SHEET 14 OF 90

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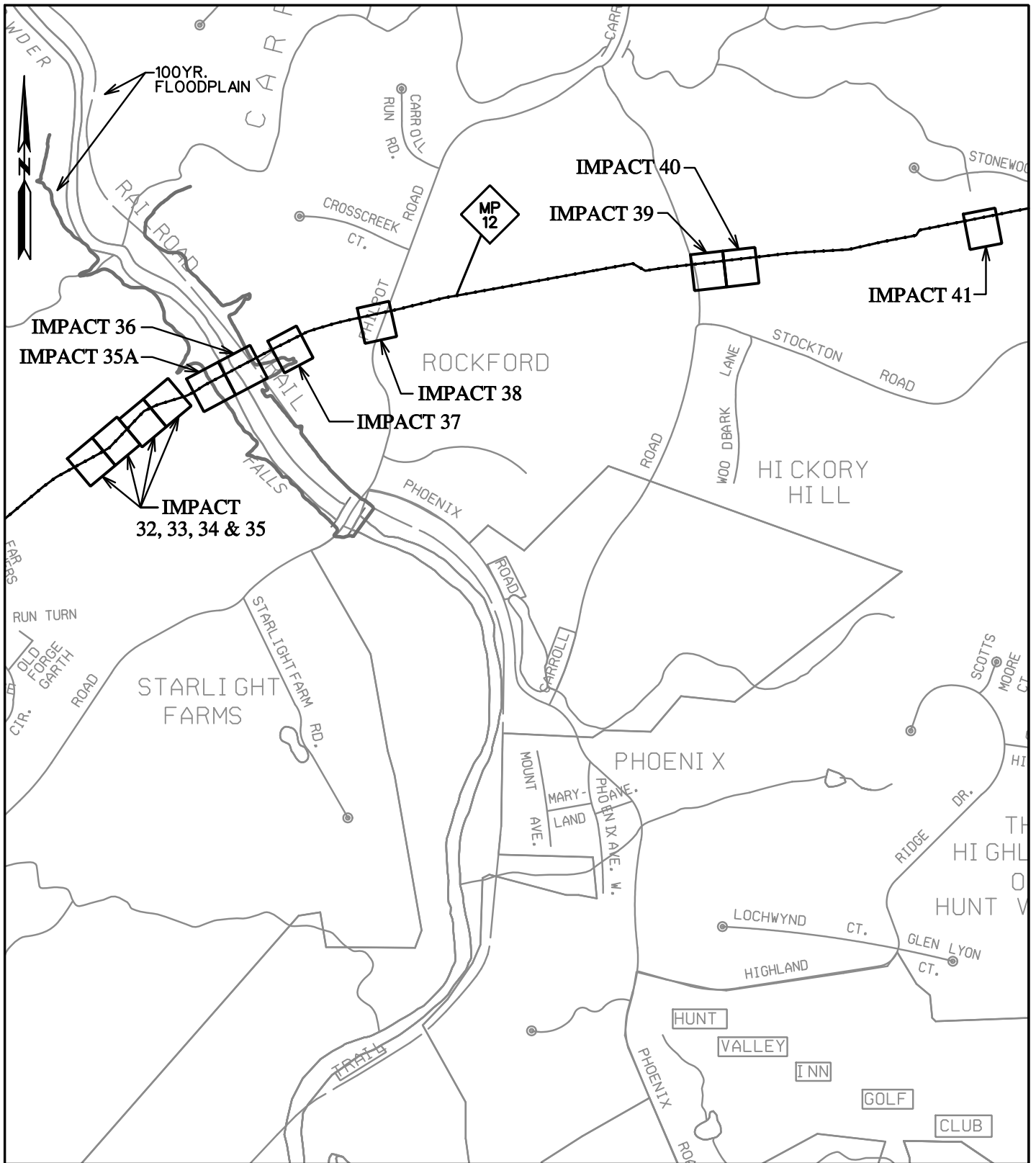
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# IMPACT LOCATION MAP 5



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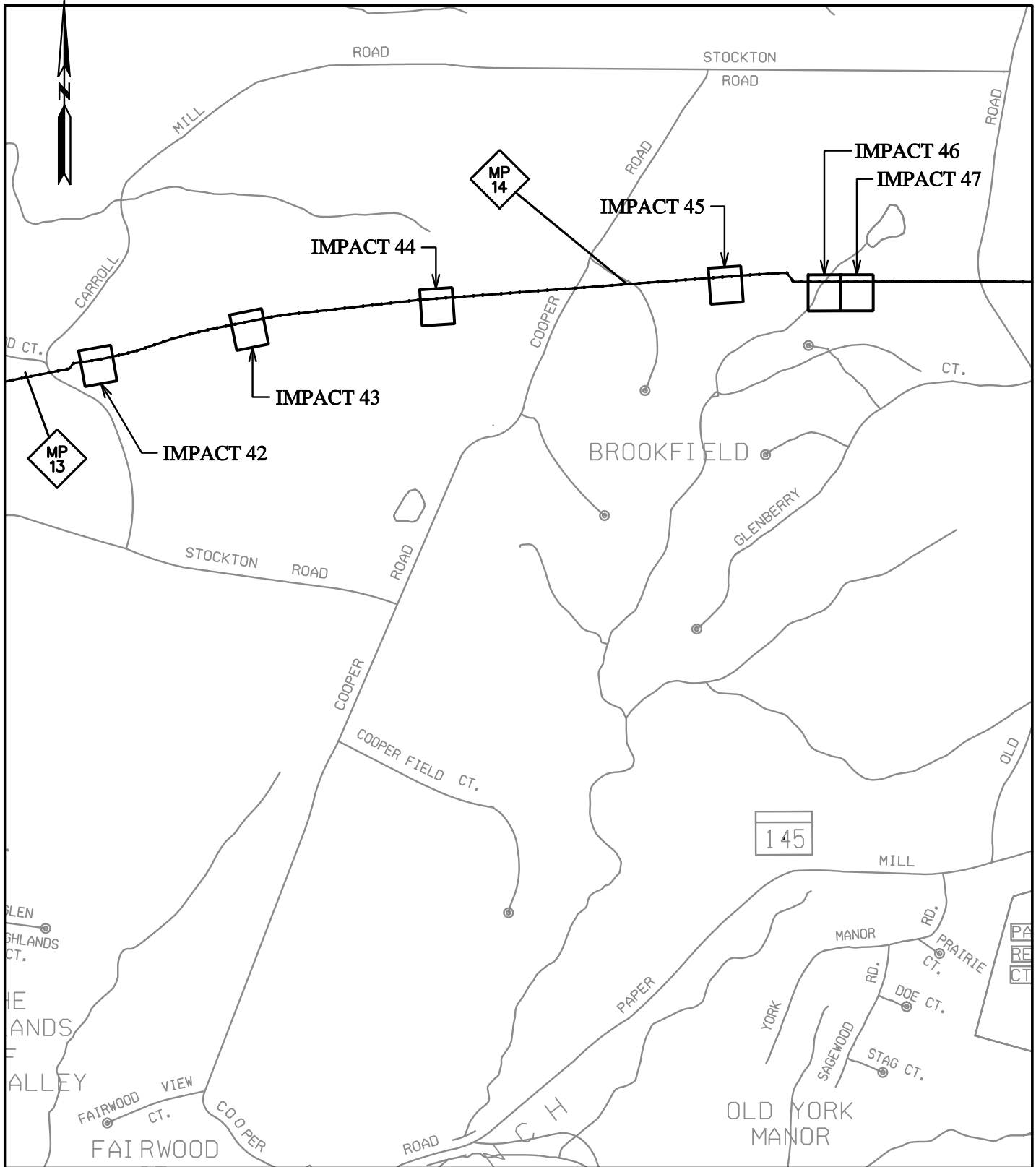
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# IMPACT LOCATION MAP 6



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 FILE: M:\2012\16121849.dwg\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\16-Plate-LINE\_MB-impact-loc\_07.dgn



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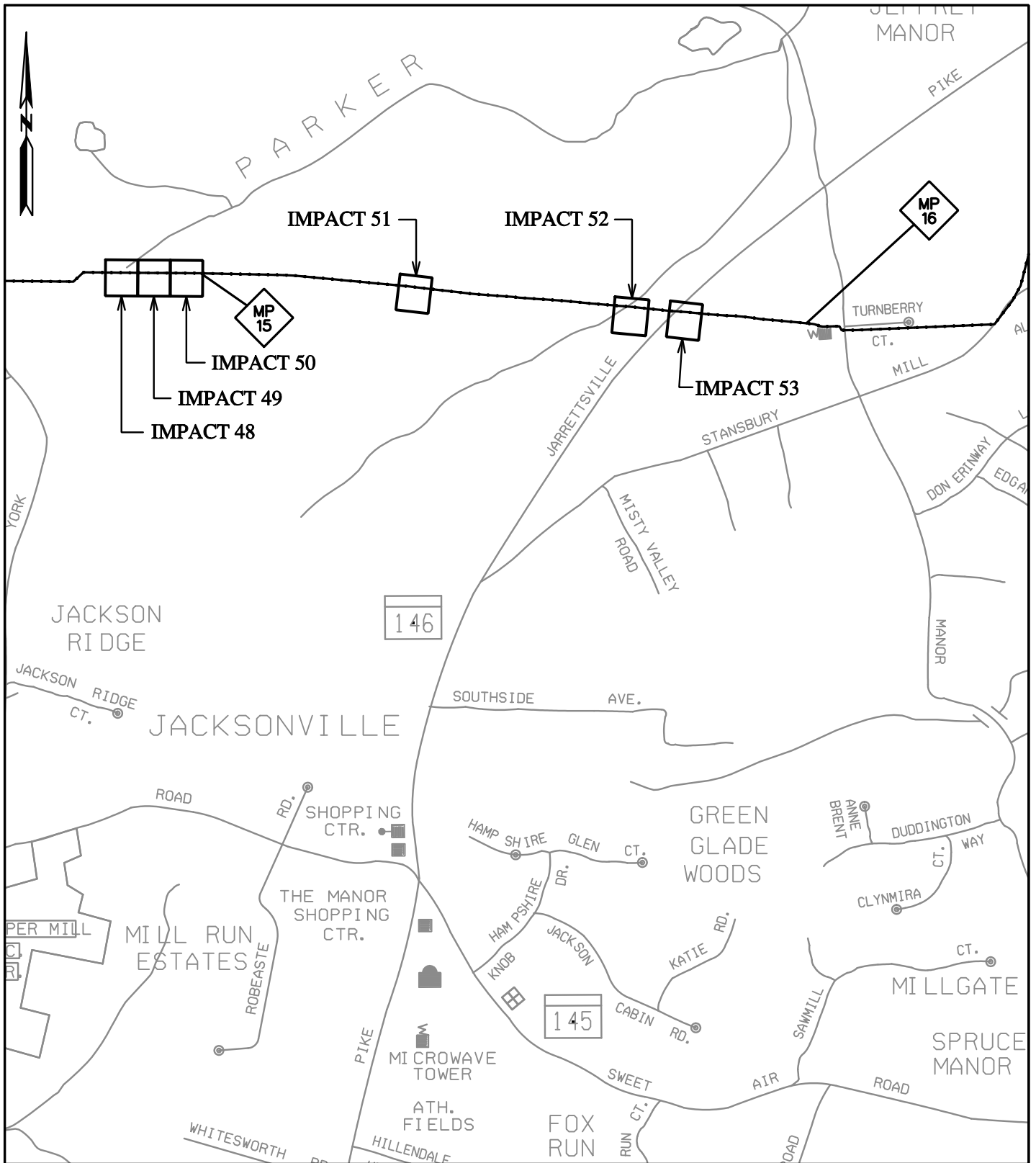
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# IMPACT LOCATION MAP 7





SHEET 17 OF 90

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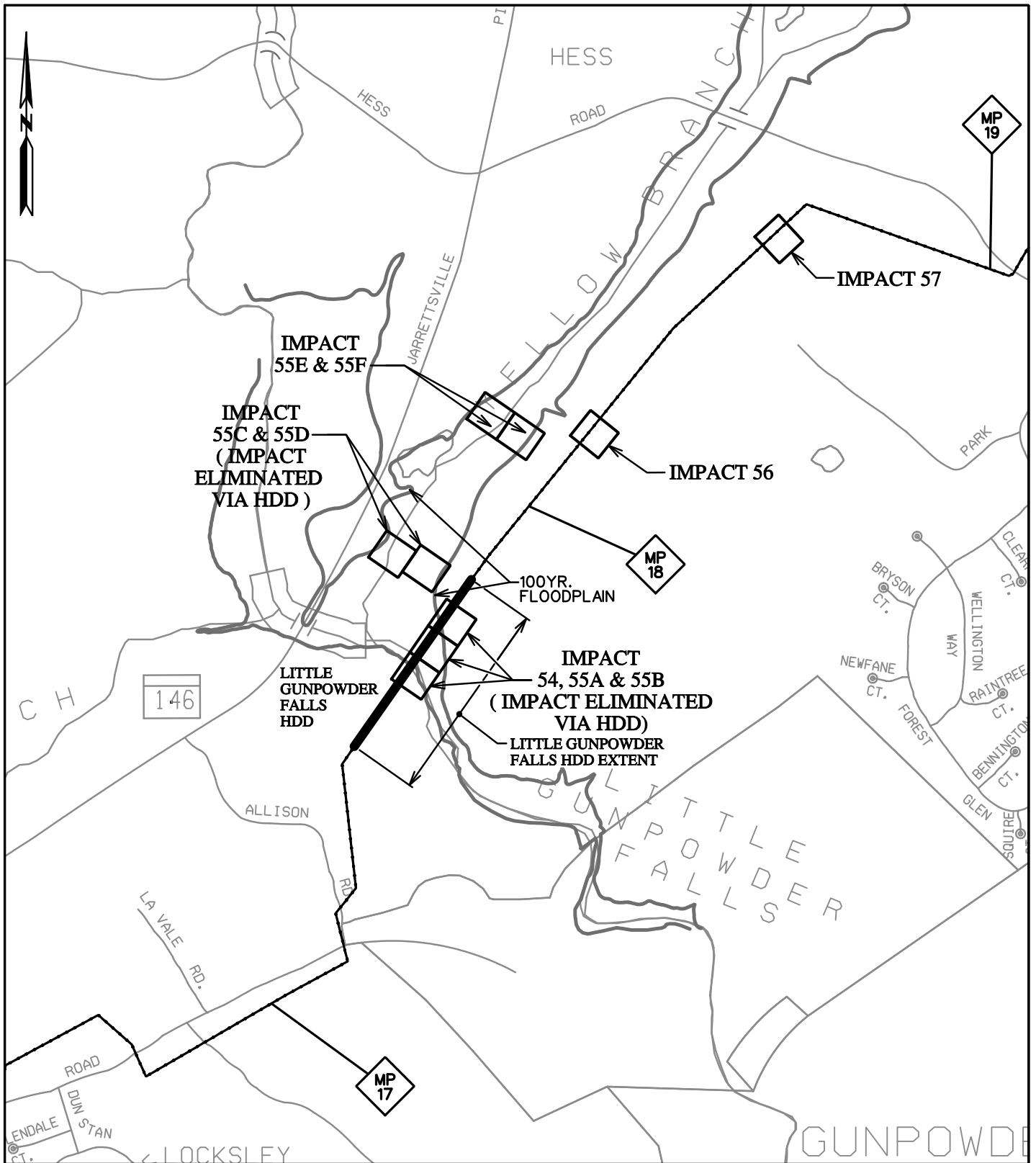
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# IMPACT LOCATION MAP 8



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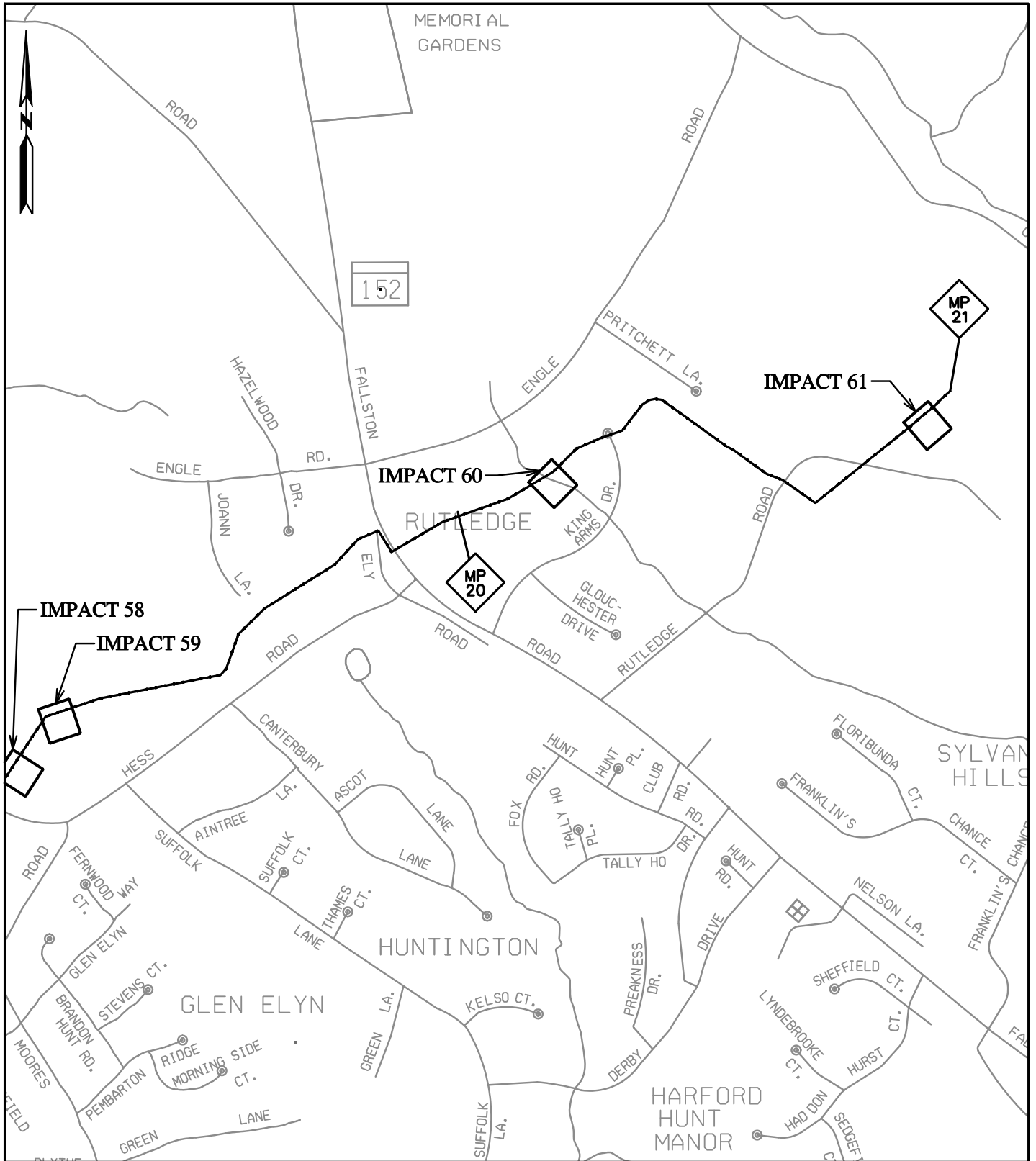
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# IMPACT LOCATION MAP 9



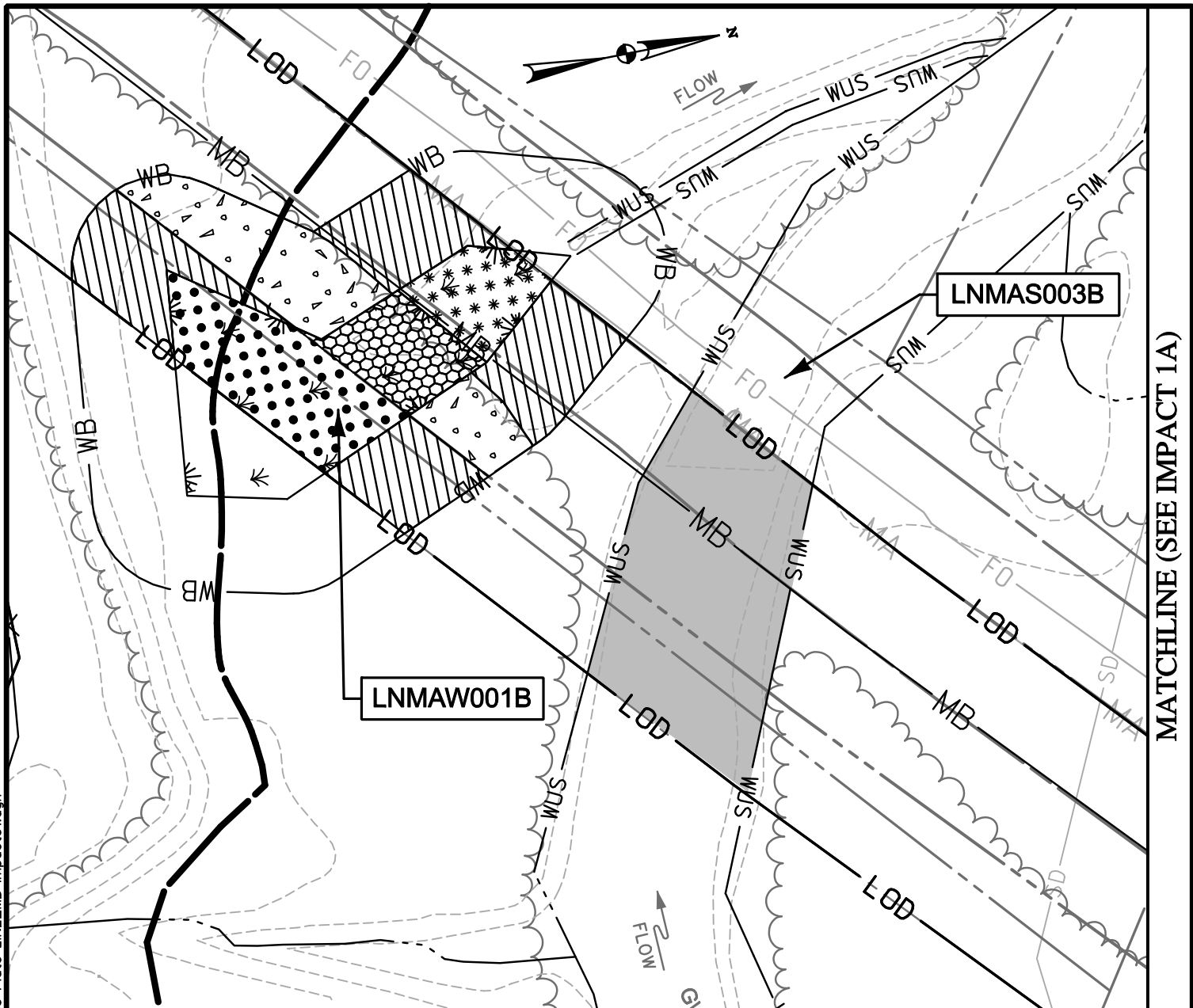
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**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT LOCATION MAP 10**



FLOODPLAIN IMPACT THIS SHEET: 22,376 SF./0.51 AC.

 TEMPORARY WATERS OF U.S. IMPACT  
3,697 SF./ 0.08 AC./ 80 LF.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
670 SF./ 0.02 AC.

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
740 SF./ 0.02 AC.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,731 SF./ 0.04 AC.

 TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
1,501 SF./ 0.03 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
3,195 SF./ 0.07 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 20 OF 90

PLOTTED: '03:11 PM on Wednesday, May 27, 2015"  
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**ENGINEERS**  
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**CONSTRUCTION MANAGERS**

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 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

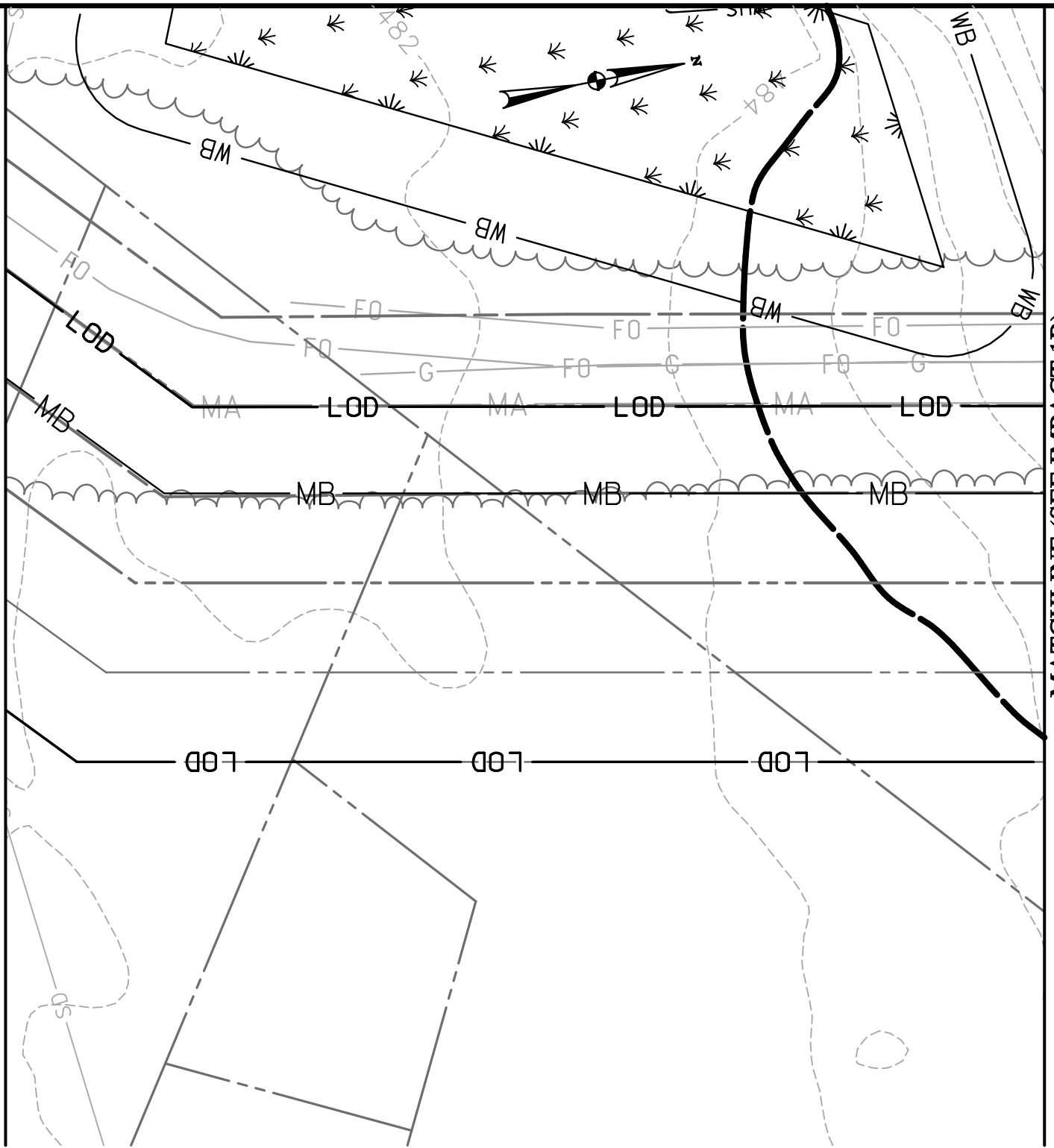
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 1**  
 LNMAW001B; LNMAW001B

MATCHLINE (SEE IMPACT 1A)

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MATCHLINE (SEE IMPACT 1)

MATCHLINE (SEE IMPACT 1B)



NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.  
FLOODPLAIN IMPACT THIS SHEET: 25,366 SF. / 0.58 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 21 OF 90



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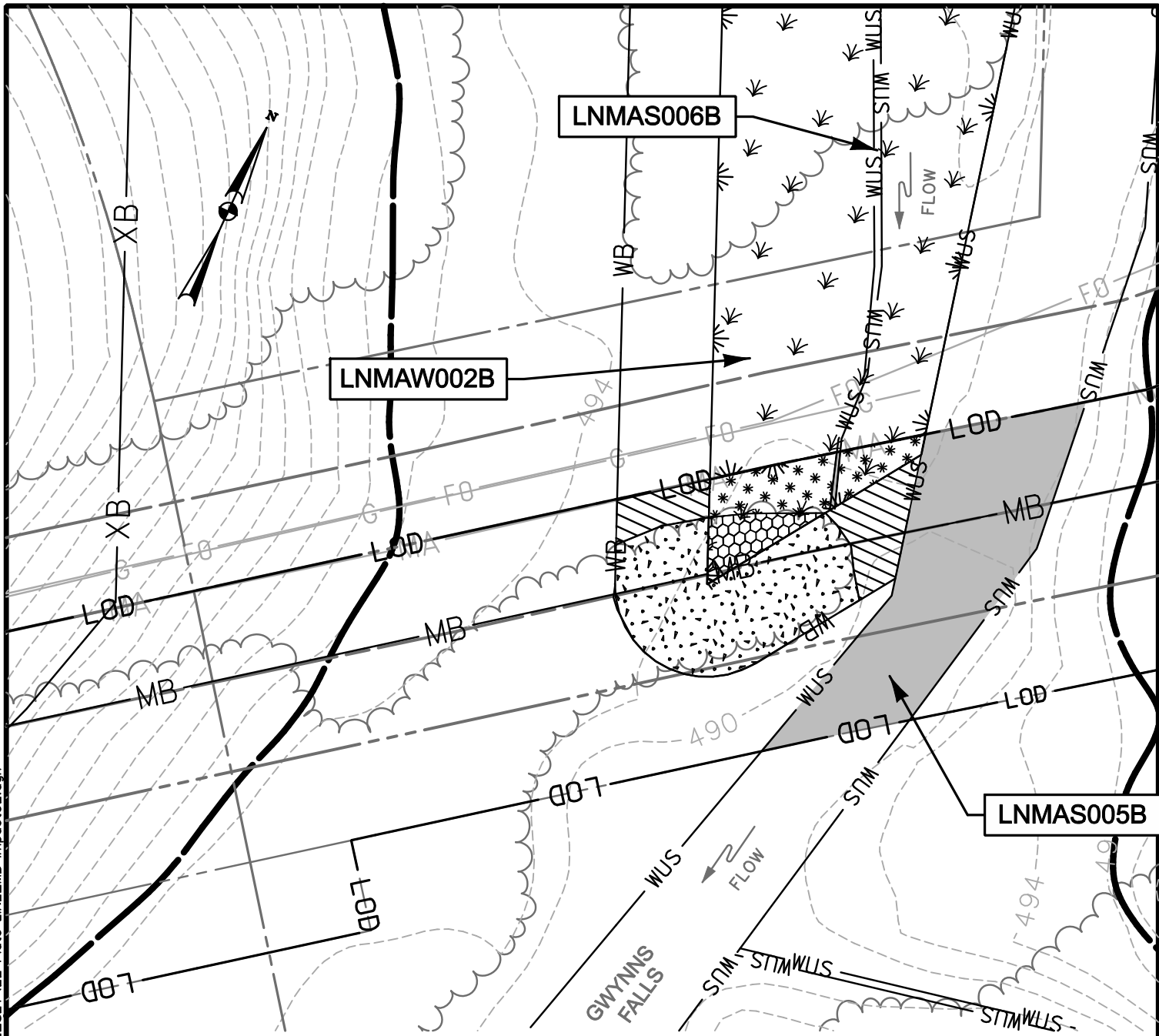
DATE: REVISED  
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SCALE:  
1" = 40'

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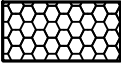
LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 1A**




 TEMPORARY WATERS OF U.S. IMPACT  
3,007 SF./ 0.07 AC./ 111 LF.

FLOODPLAIN IMPACT THIS SHEET: 19,319 SF. / 0.44 AC.

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
298 SF./ 0.007 AC.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,967 SF./ 0.05 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
661 SF./ 0.015 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
742 SF./ 0.02 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 22 OF 90

PLOTTED: 03:11 PM on Wednesday, May 27, 2015  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\\_IMPACT\_PLATE\_SET\22-Plate-LINE\_MB-IMPACT02.dgn

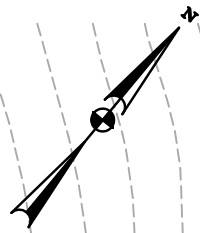


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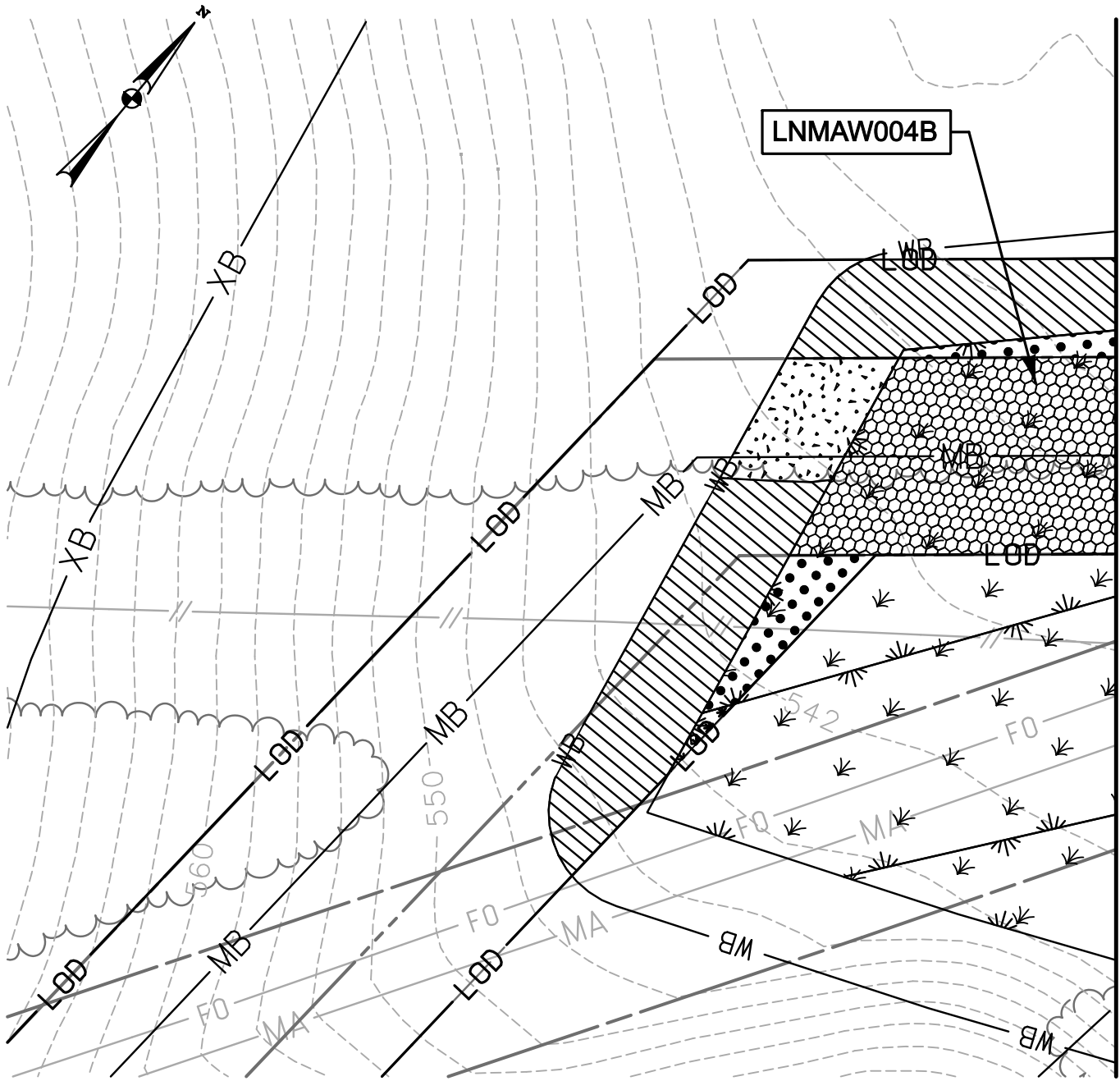
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 MAY 2015  
 SCALE:  
 1" = 40'  
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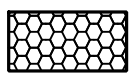
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 2**  
 LNMAW006B; LNMAW005B; LNMAW002B



LNMAW004B



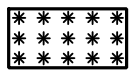
MATCHLINE (SEE IMPACT 4)



NON-TIDAL PFO  
WETLAND CONVERSION IMPACT  
3,451 SF./ 0.08 AC.



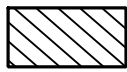
TEMPORARY NON-TIDAL  
PFO WETLAND IMPACT  
789 SF./ 0.02 AC.



TEMPORARY NON-TIDAL  
PEM WETLAND IMPACT  
53 SF./ 0.001 AC.



PERMANENT 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
779 SF./ 0.02 AC.



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
4,336 SF./ 0.10 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 23 OF 90



ENGINEERS  
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LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

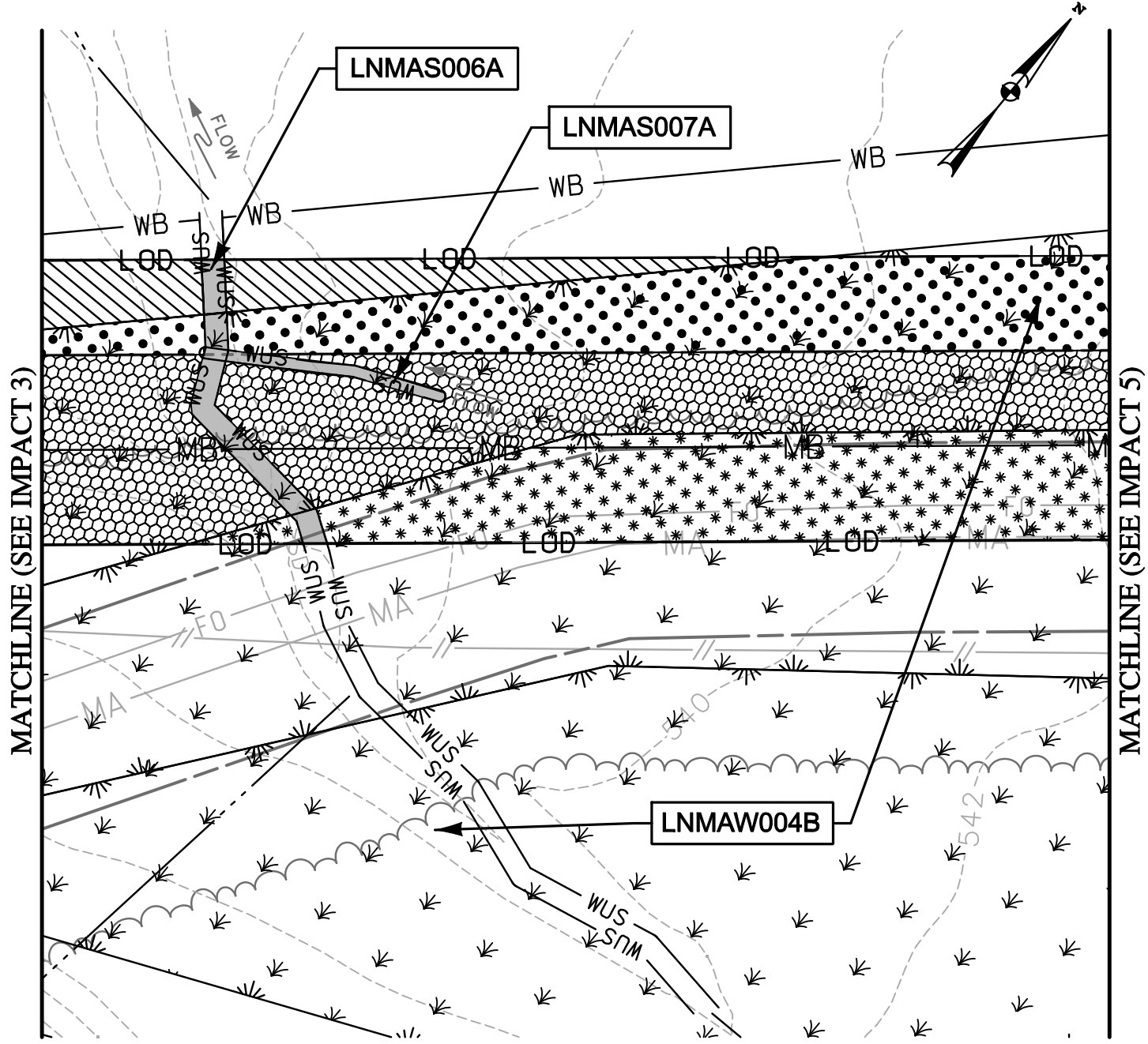
MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 3**

LNMAW004B

PLOTTED: '03:11 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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- TEMPORARY WATERS OF U.S. IMPACT  
 717 SF./ 0.02 AC./ 150 LF.
- NON-TIDAL PFO WETLAND CONVERSION IMPACT  
 8,108 SF./ 0.19 AC.
- TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
 5,091 SF./ 0.12 AC.
- TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 5,429 SF./ 0.12 AC.
- TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 1,791 SF./ 0.04 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 24 OF 90

**ENGINEERS**  
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**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

**KCI**  
 TECHNOLOGIES

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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
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 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 4**

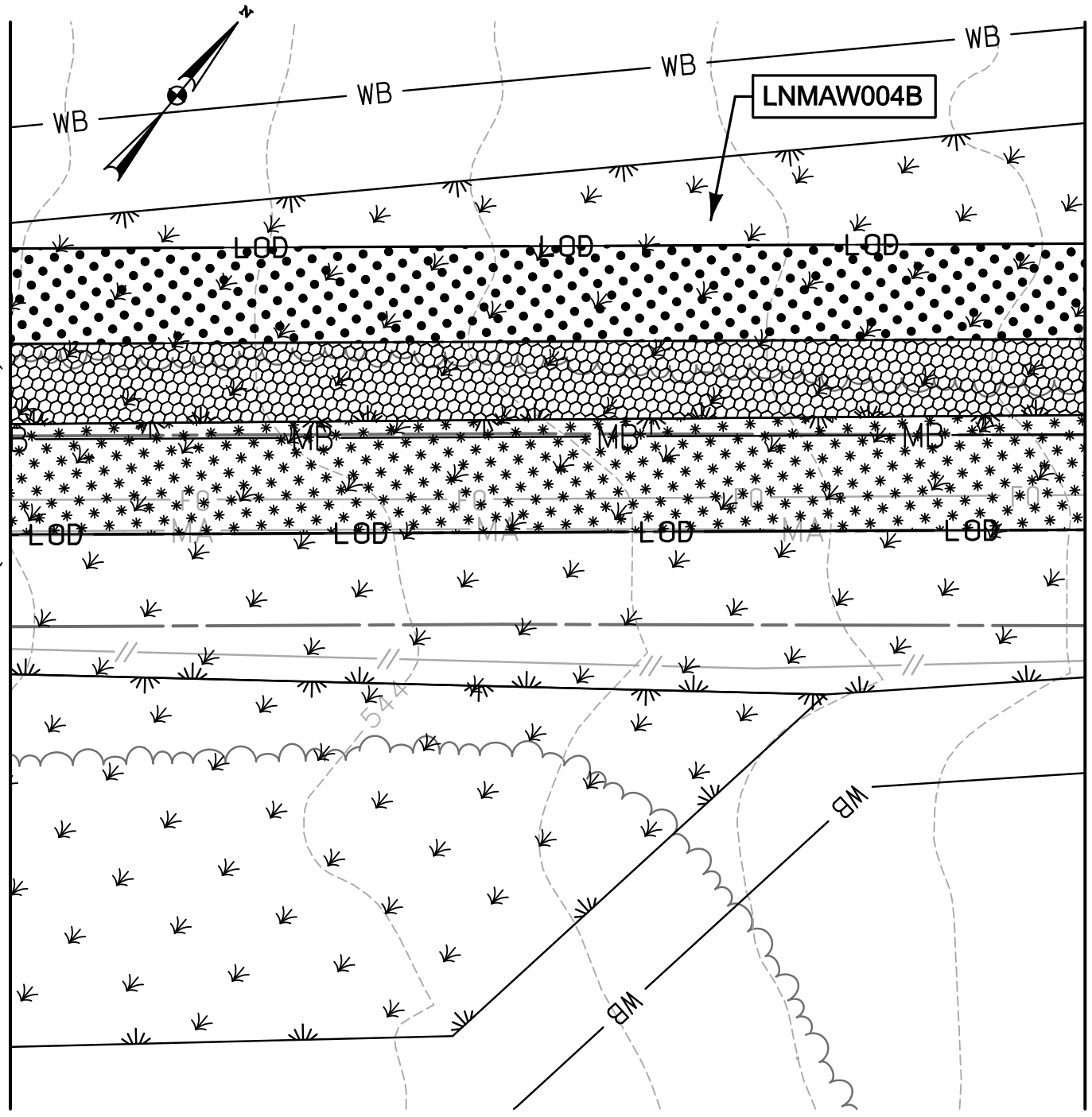
LNMA006A; LNMA007A; LNMAW004B

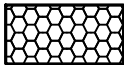


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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\25-Plate-LINE\_MB-impact05.dgn

MATCHLINE (SEE IMPACT 4)

MATCHLINE (SEE IMPACT 6)




 NON-TIDAL PFO  
 WETLAND CONVERSION IMPACT  
 5,774 SF./ 0.13 AC.


 TEMPORARY NON-TIDAL  
 PFO WETLAND IMPACT  
 7,045 SF./ 0.16 AC.


 TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 8,316 SF./ 0.19 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 25 OF 90



**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

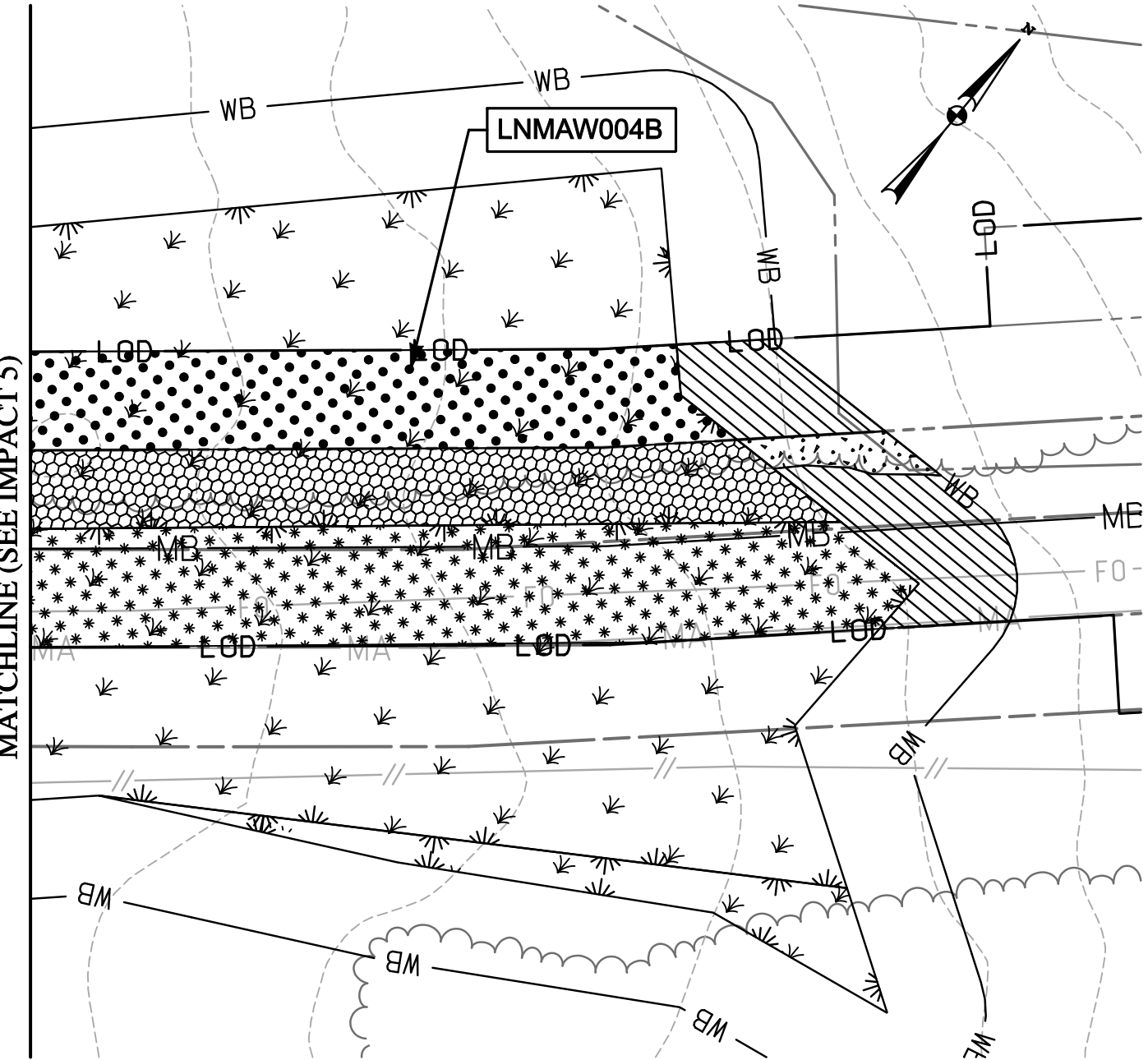
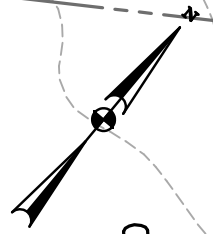
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 FAX: (410) 316-7818

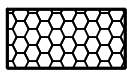

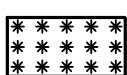
DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
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 CSD


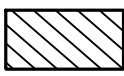
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 5**  
 LNMAW004B

MATCHLINE (SEE IMPACT 5)

LNMAW004B



-  NON-TIDAL PFO WETLAND CONVERSION IMPACT  
3,822 SF./ 0.09 AC.
-  TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
4,209 SF./ 0.10 AC.
-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
6,502 SF./ 0.15 AC.

-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
191 SF./ 0.004 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
2,360 SF./ 0.05 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 26 OF 90

PLOTTED: 03:12 PM on Wednesday, May 27, 2015  
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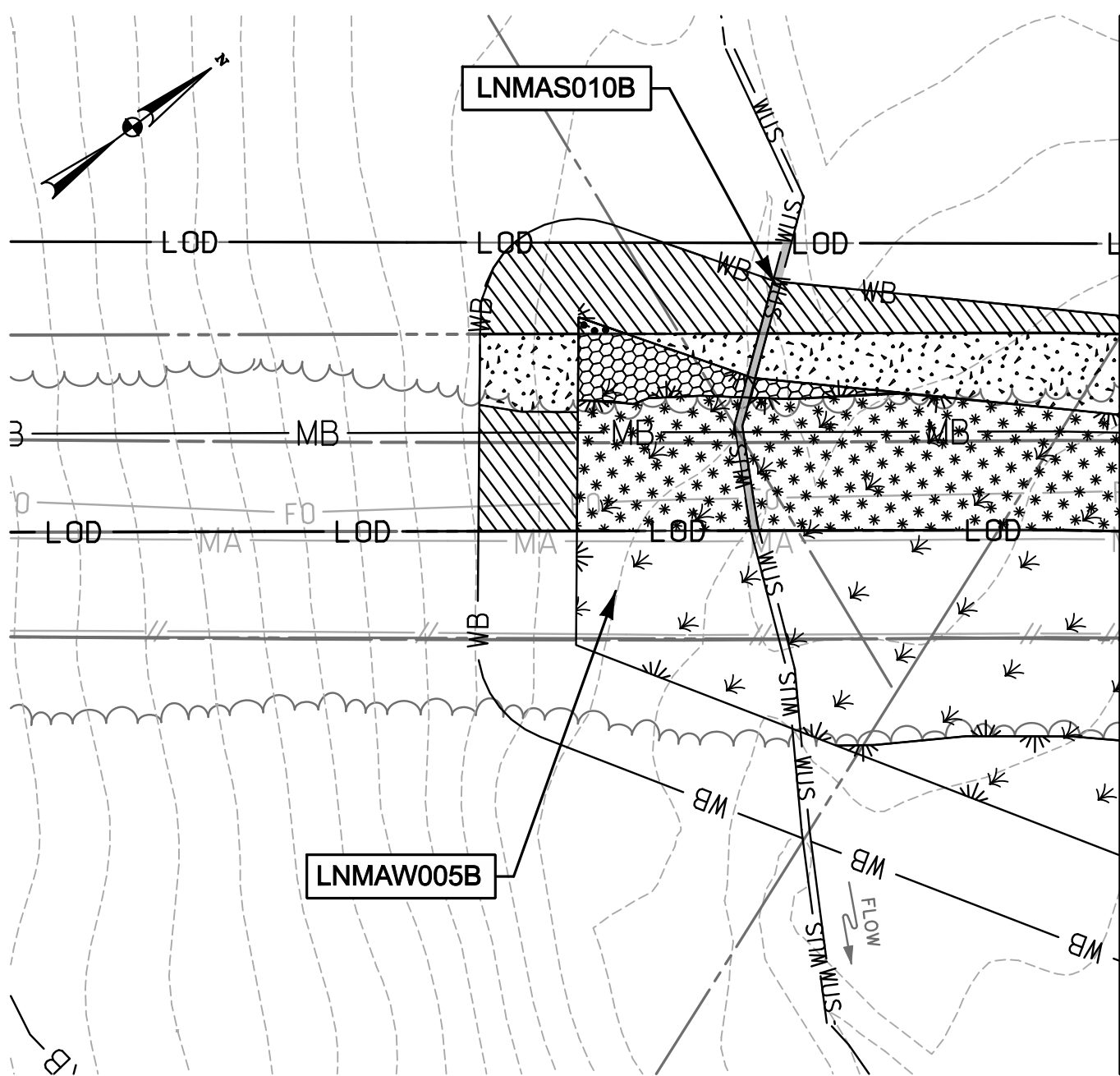


**ENGINEERS**  
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**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
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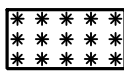
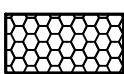



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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 6**  
 LNMAW004B

PLOTTED: '03:12 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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MATCHLINE (SEE IMPACT 8)

- |   |   |   |  |
|---|---|---|--|
|  | TEMPORARY WATERS OF U.S. IMPACT<br>150 SF./ 0.003 AC./ 75 LF. |  | TEMPORARY NON-TIDAL PEM WETLAND IMPACT<br>4,482 SF./ 0.10 AC.        |
|  | NON-TIDAL PFO WETLAND CONVERSION IMPACT<br>648 SF./ 0.01 AC.  |  | PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT<br>1,832 SF./ 0.04 AC. |
|  | TEMPORARY NON-TIDAL PFO WETLAND IMPACT<br>26 SF./ 0.0005 AC.  |  | TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT<br>3,332 SF./ 0.08 AC. |

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 27 OF 90



**ENGINEERS**  
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 SPARKS, MARYLAND 21152  
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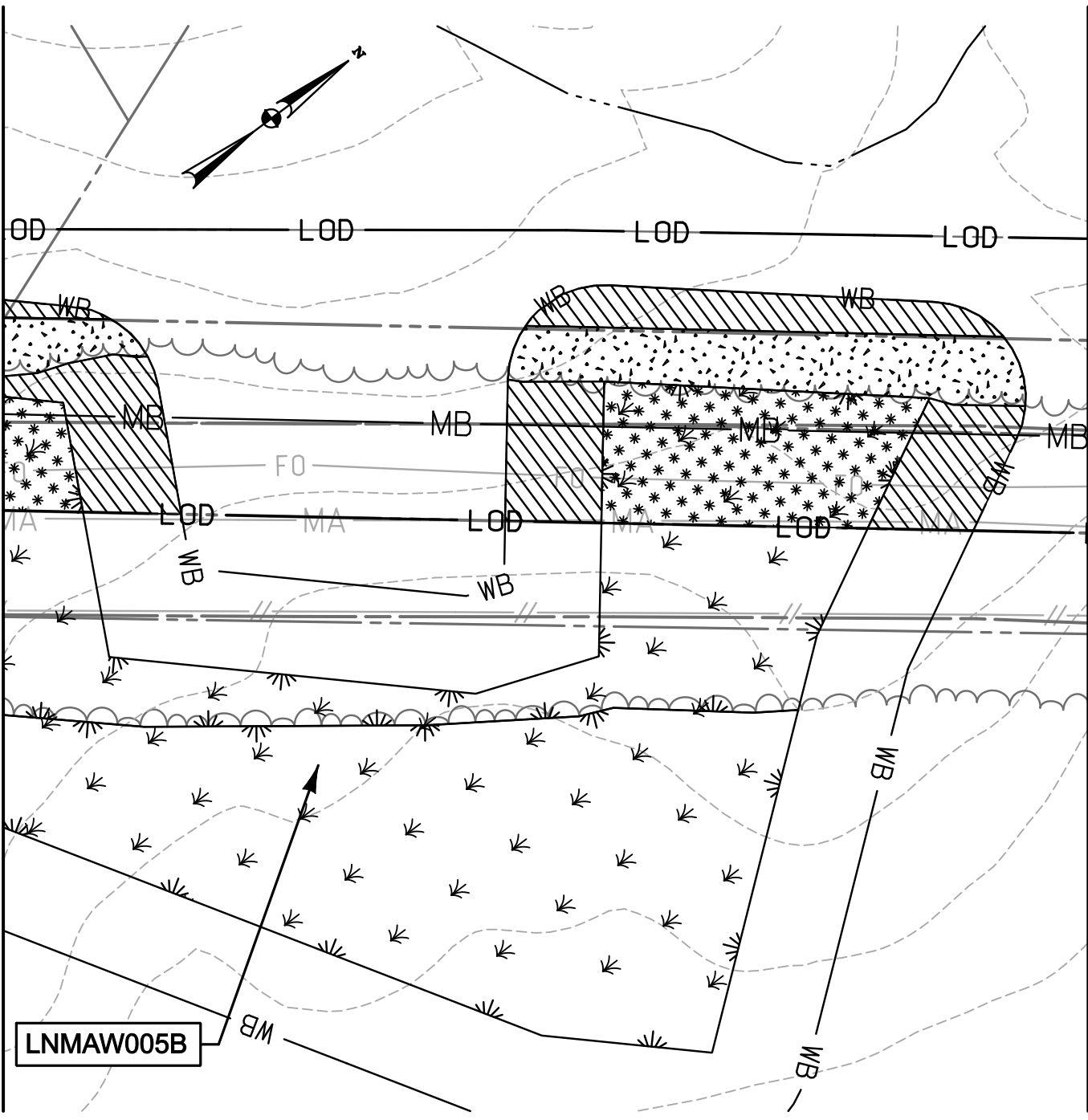
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 SCALE:  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 7**  
 LNMA010B; LNMAW005B

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MATCHLINE (SEE IMPACT 7)

MATCHLINE (SEE IMPACT 9)



\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 3,254 SF./ 0.07 AC.

\*\*\*\*\*

PERMANENT 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 1,939 SF./ 0.04 AC.

//////

TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 4,611 SF./ 0.11 AC.

SHEET 28 OF 90



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 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015

SCALE:  
 1" = 40'

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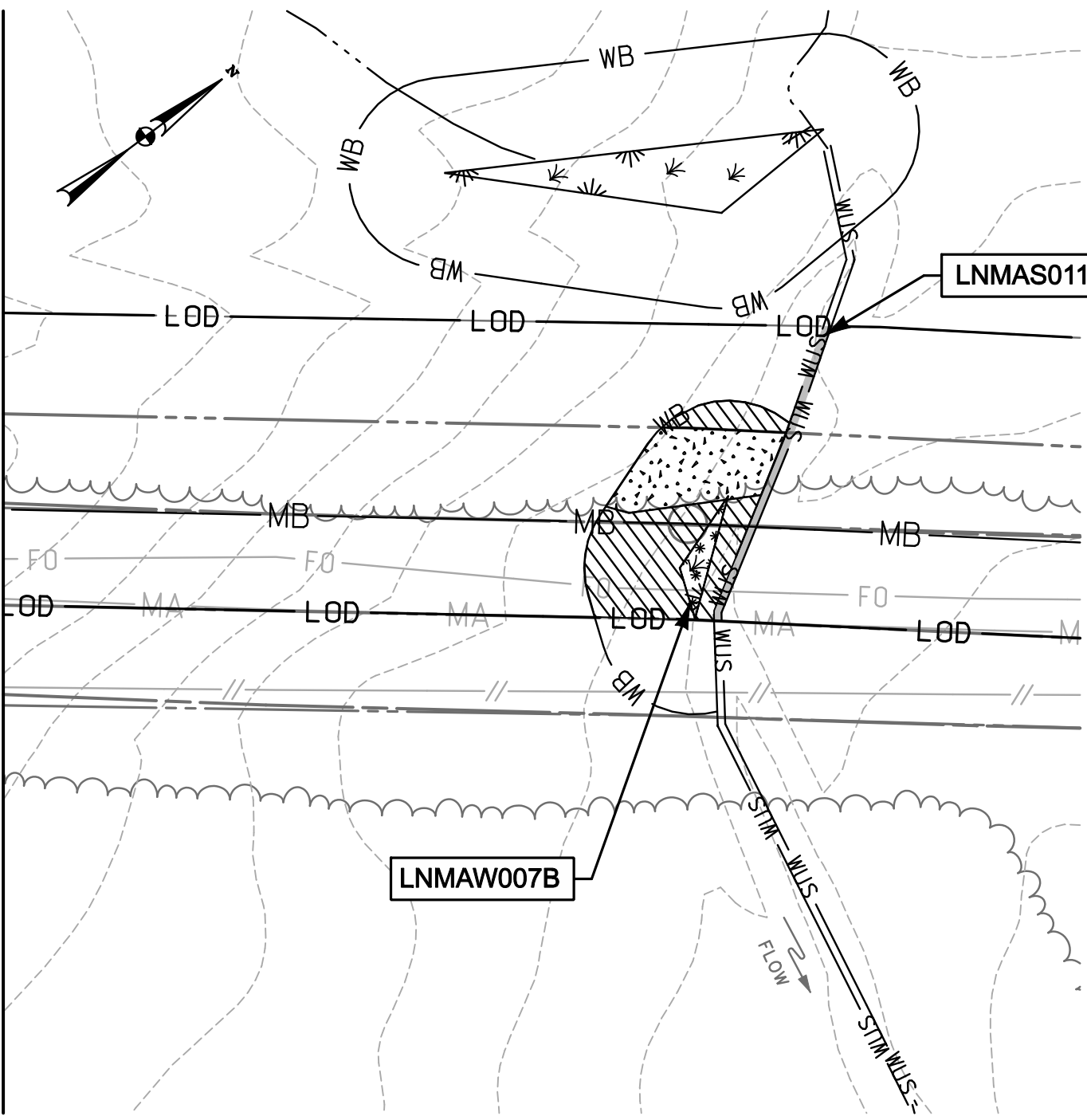
LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660


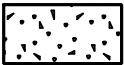
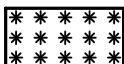

**IMPACT 8**

LNMAW005B

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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\29-Plate-LINE\_MB-impact09.dgn

MATCHLINE (SEE IMPACT 8)



-  TEMPORARY WATERS OF U.S. IMPACT  
165 SF./ 0.004 AC./ 83 LF.
-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
720 SF./ 0.02 AC.
-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
121 SF./ 0.003 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,184 SF./ 0.03 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 29 OF 90



*ENGINEERS  
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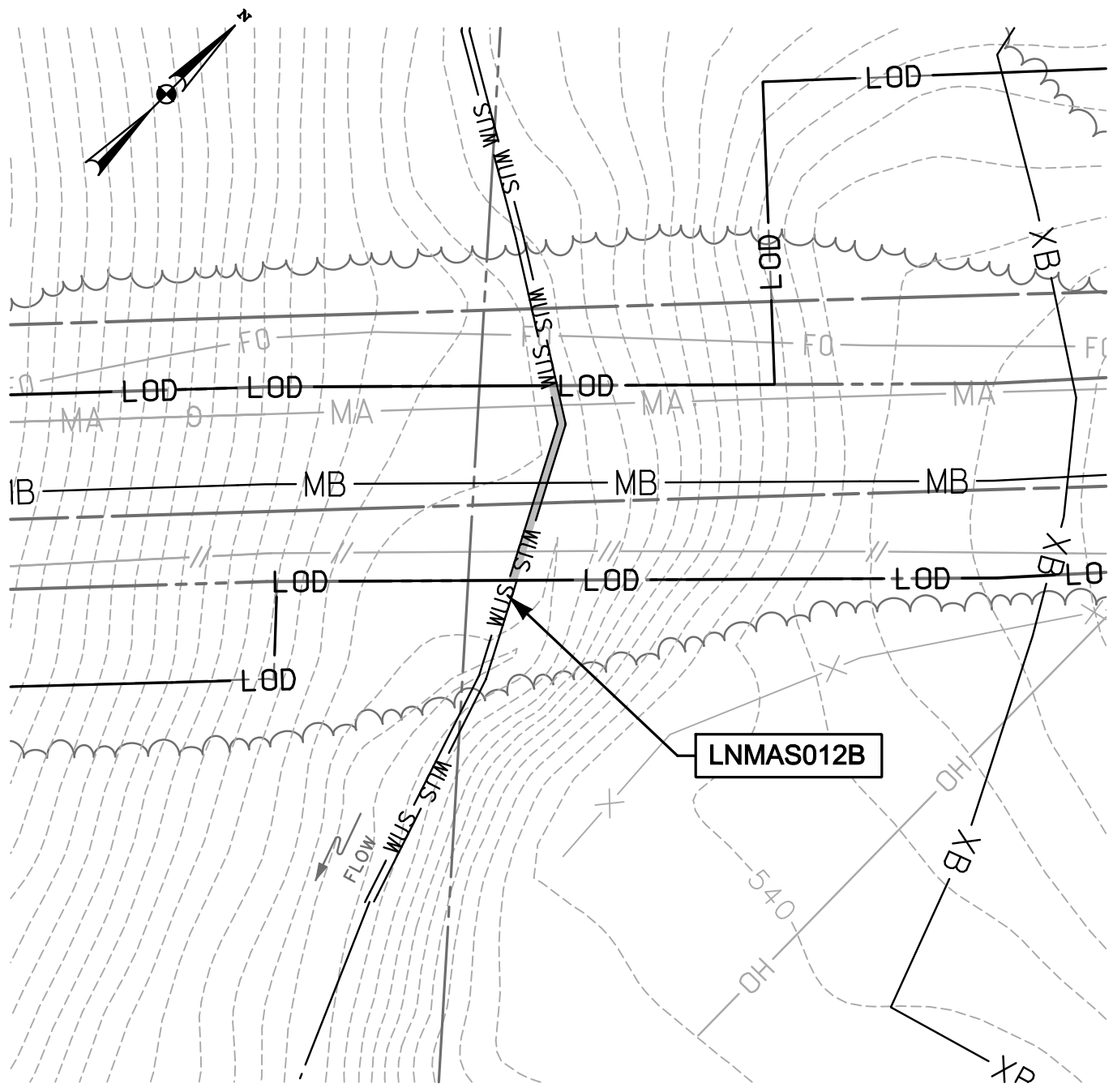
DATE: REVISED  
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SCALE:  
 1" = 40'

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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 9**  
 LNMAW011B; LNMAW007B




 TEMPORARY WATERS  
 OF U.S. IMPACT  
 104 SF./ 0.002 AC./ 52 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 30 OF 90

PLOTTED: '03:12 PM on Wednesday, May 27, 2015"  
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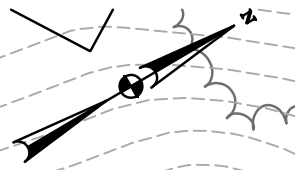
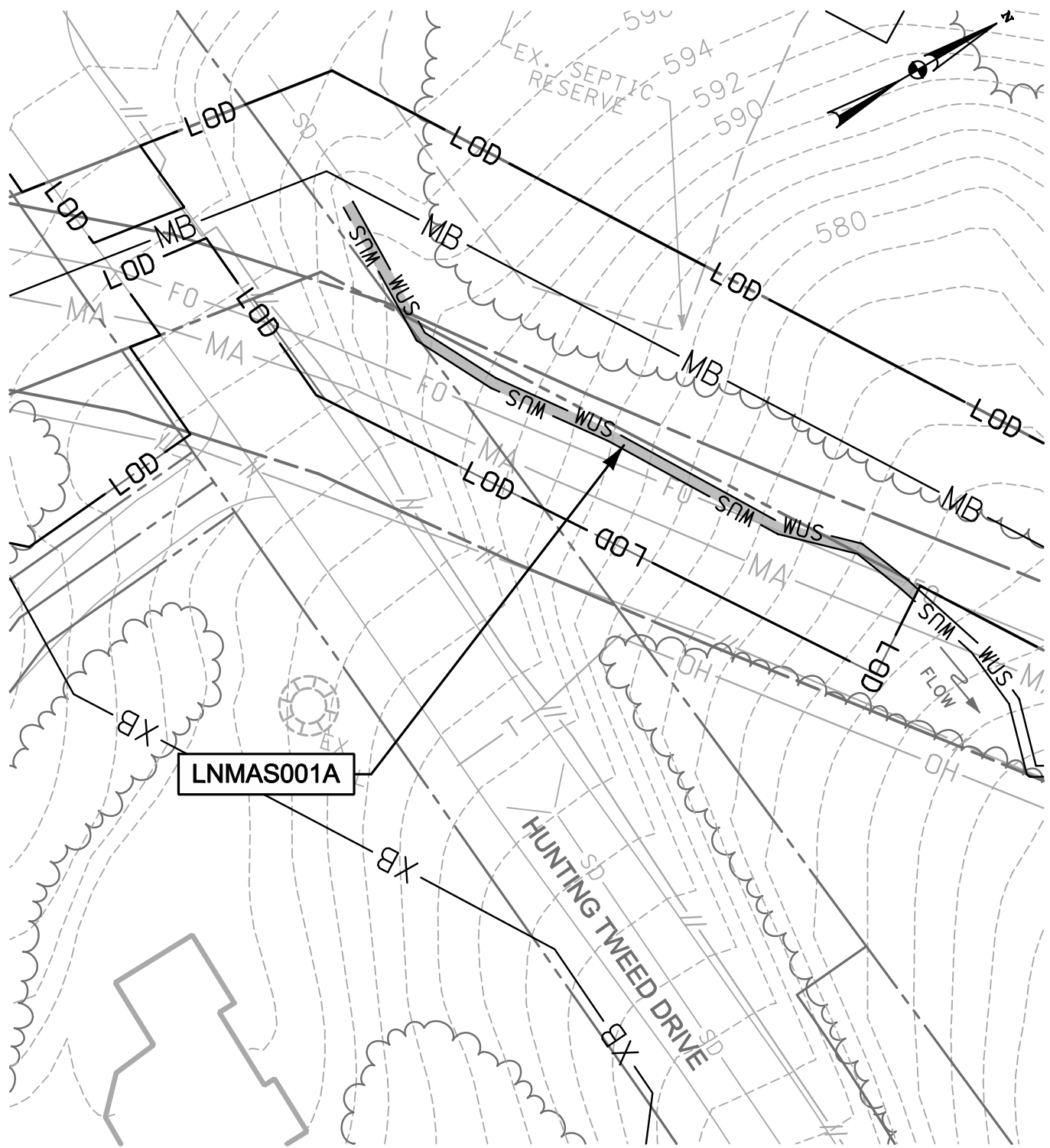


**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
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 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 10**  
 LNMA012B



**LNMAS001A**

HUNTING TWEED DRIVE

LEX. SEPTIC RESERVE

TEMPORARY WATERS OF U.S. IMPACT  
586 SF./ 0.01 AC./ 194 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 31 OF 90

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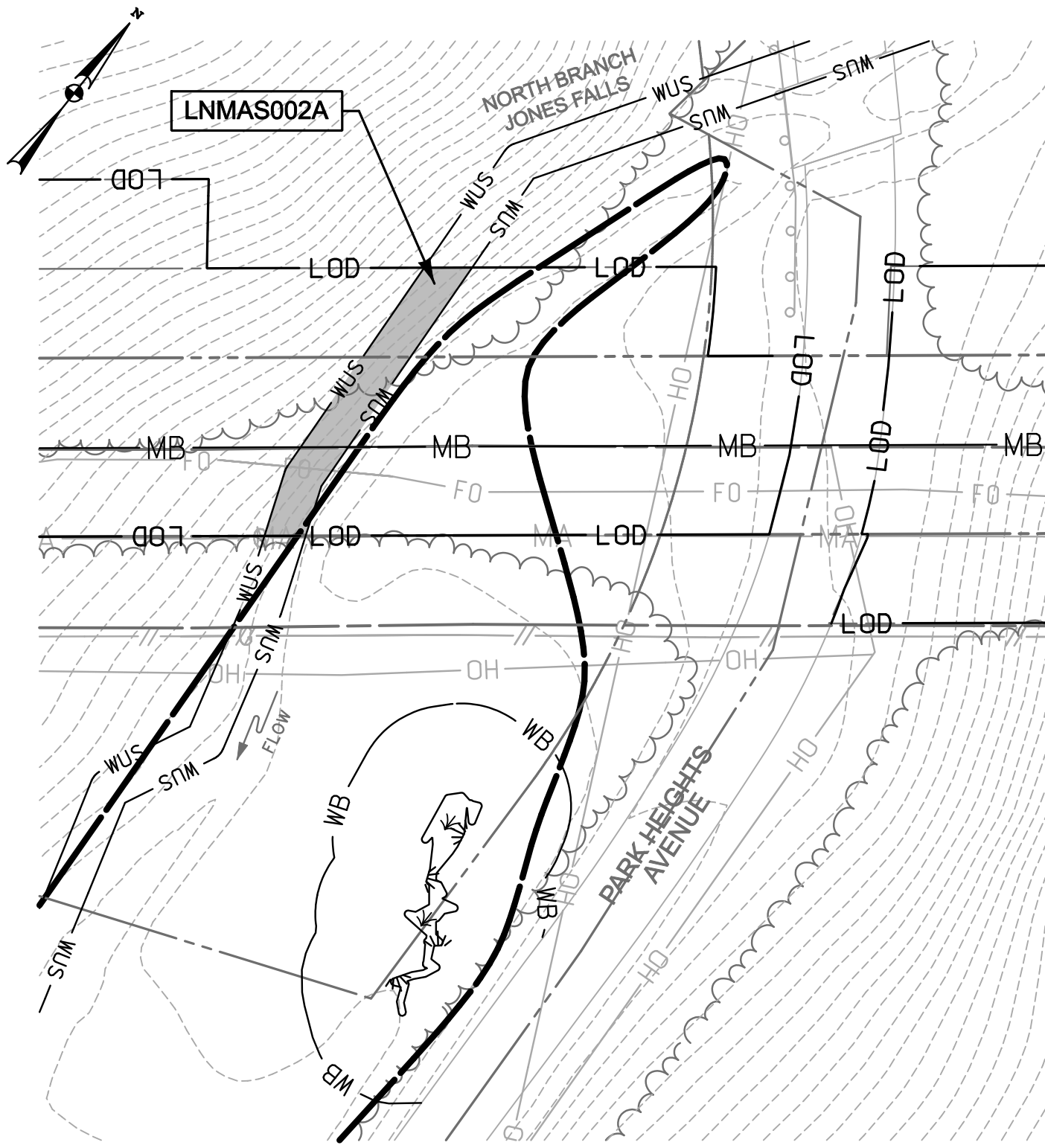



**ENGINEERS**  
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DATE: REVISED  
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 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 11**  
 LNMAS001A

PLOTTED: '03:12 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849-drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\_32-Plate-LINE\_MB-impact12.dgn



 TEMPORARY WATERS OF U.S. IMPACT  
 974 SF. / 0.02 AC. / 89 LF.

FLOODPLAIN IMPACT THIS SHEET: 3,155 SF. / 0.072 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 32 OF 90

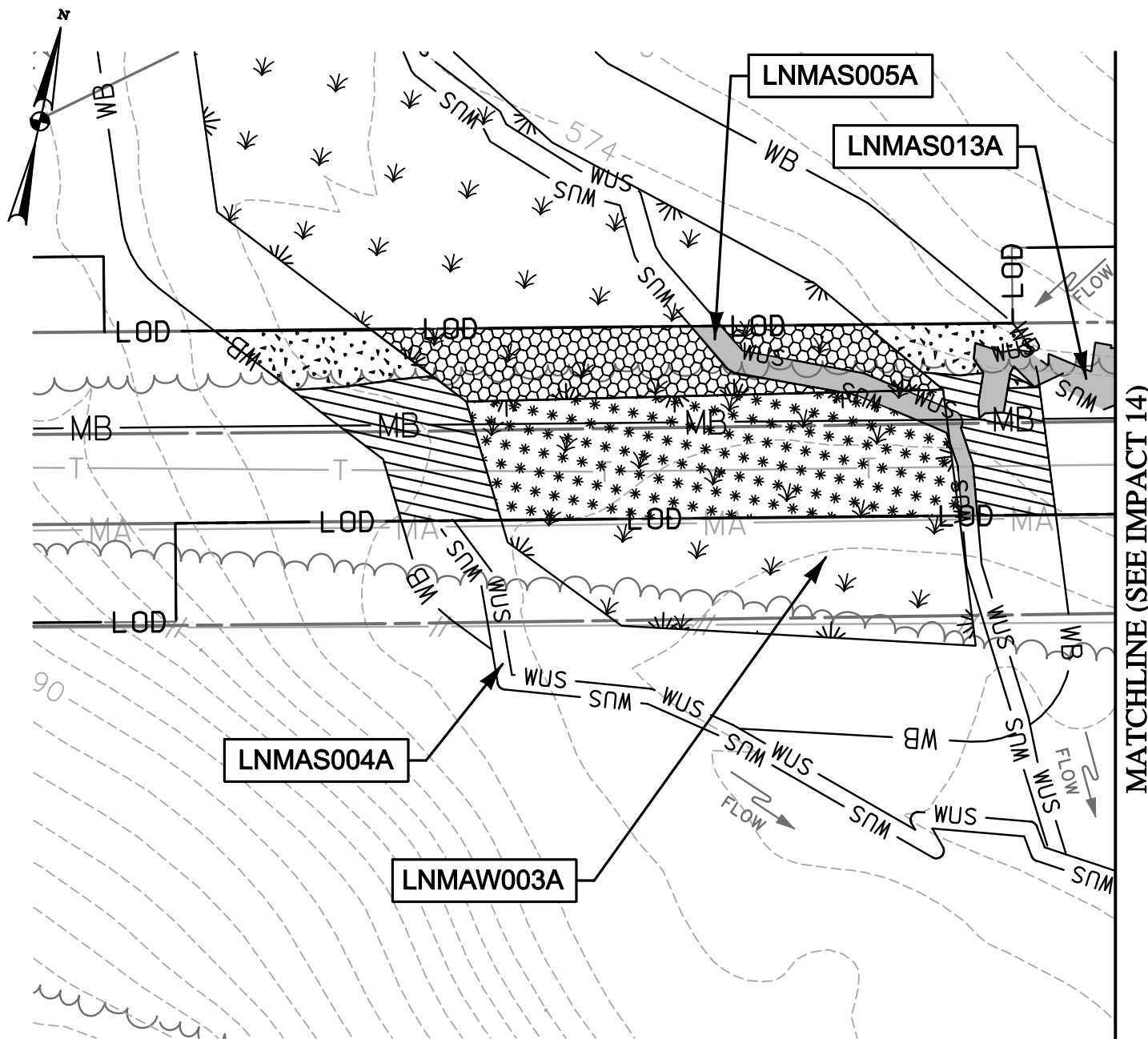


**ENGINEERS**  
**PLANNERS**  
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 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 12**  
 LNMAS002A





MATCHLINE (SEE IMPACT 14)

- TEMPORARY WATERS OF U.S. IMPACT  
892 SF./ 0.02 AC./ 140 LF.
- NON-TIDAL PFO WETLAND CONVERSION IMPACT  
2,014 SF./ 0.05 AC.
- TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
1 SF./ 0.00002 AC.

- TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
3,767 SF./ 0.09 AC.
- PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
733 SF./ 0.02 AC.
- TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
2,068 SF./ 0.05 AC.

**NOTE: IMPACTS AVOIDED IF HDD IMPLEMENTED.**

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 33 OF 90

PLOTTED: '03:12 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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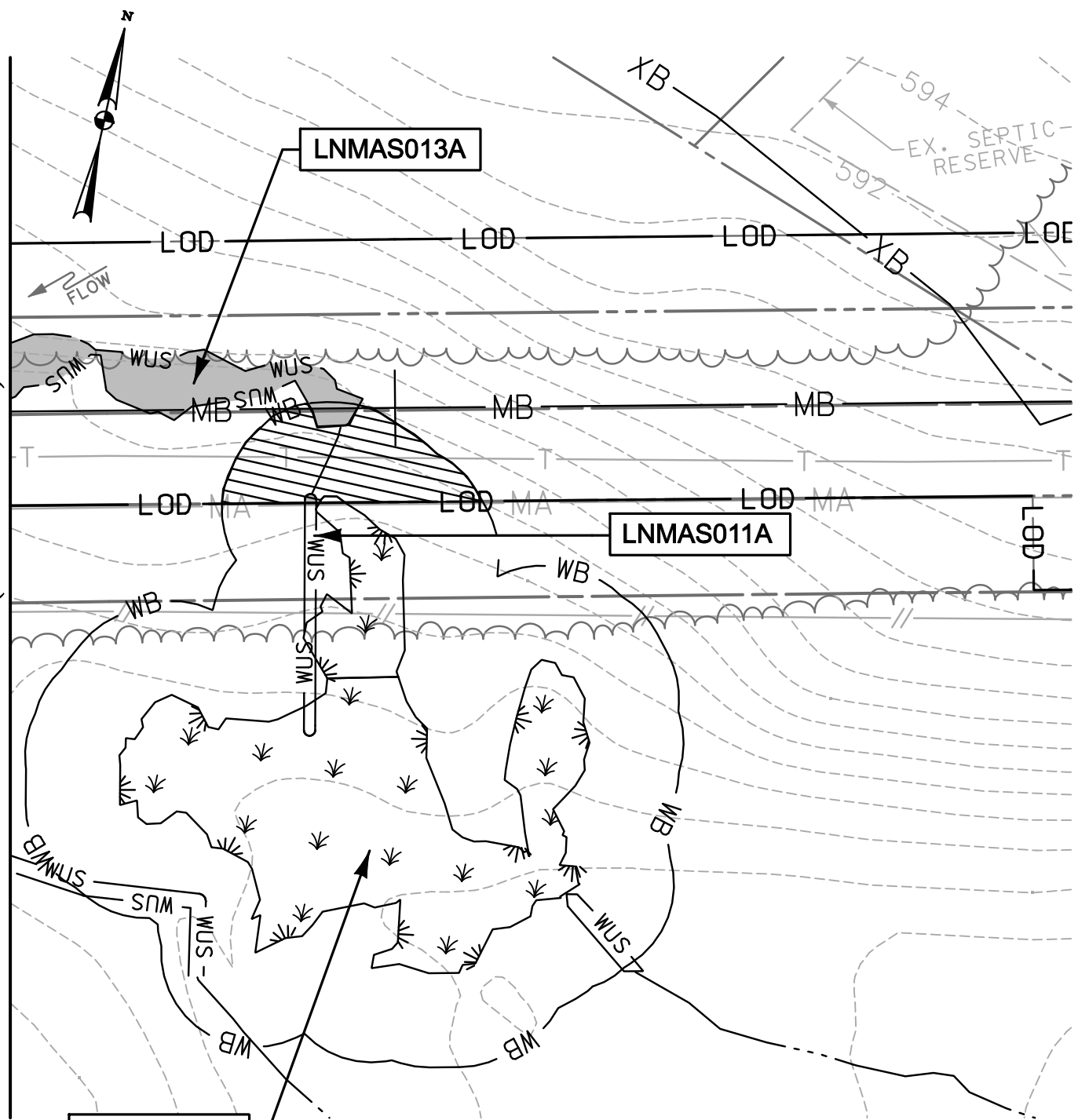
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

## IMPACT 13

LNMAW003A; LNMA004A; LNMA013A; LNMA005A

PLOTTED: '03:12 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE.SET\_34--Plate-LINE\_MB-impact14\_OPENCUT.dgn

MATCHLINE (SEE IMPACT 13)



TEMPORARY WATERS OF U.S. IMPACT  
 1,004 SF./ 0.02 AC./ 96 LF.

TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 1,232 SF./ 0.03 AC.

TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 9 SF./ 0.0002 AC.

**NOTE: IMPACTS AVOIDED IF HDD IMPLEMENTED.**

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 34 OF 90

**KCI**  
 TECHNOLOGIES

*ENGINEERS  
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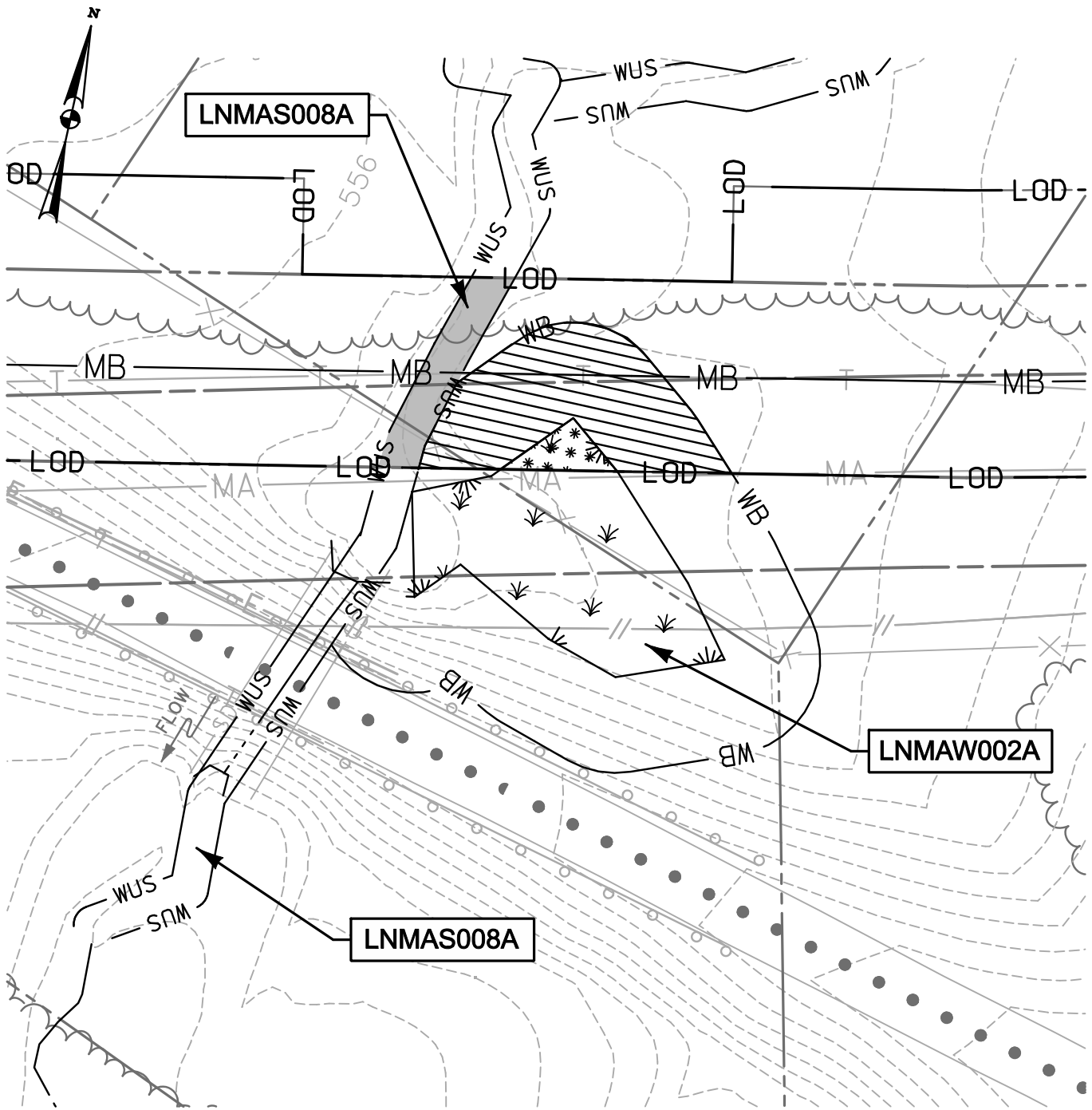
DATE: REVISED  
 MAY 2015


SCALE:  
 1" = 40'

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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 14**  
 LNMAW004A; LNMA011A; LNMA013A



 TEMPORARY WATERS OF U.S. IMPACT  
 555 SF./ 0.02 AC./ 55 LF.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 1,955 SF./ 0.04 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 208 SF./ 0.005 AC.

**NOTE: IMPACTS AVOIDED IF HDD IMPLEMENTED.**

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 35 OF 90

PLOTTED: '03:12 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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 FAX: (410) 316-7818

DATE: REVISED  
MAY 2015

SCALE:  
1" = 40'

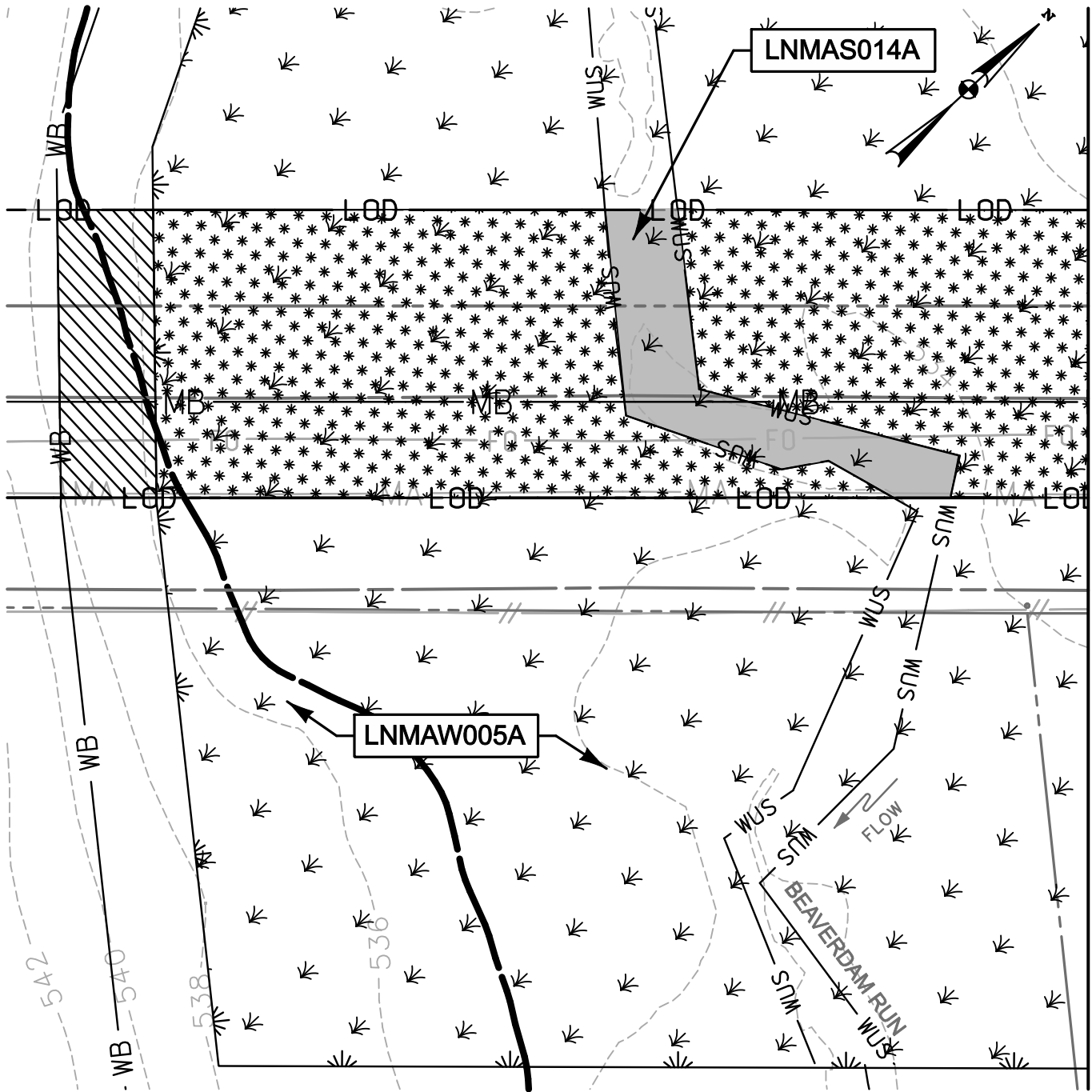
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CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314


MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 15**

LNMAW002A; LNMA008A



MATCHLINE (SEE IMPACT 17)

 TEMPORARY WATERS OF U.S. IMPACT  
2,010 SF. / 0.05 AC. / 128 LF.

FLOODPLAIN IMPACT THIS SHEET: 18,612 SF. / 0.43 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
16,226 SF. / 0.37 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,875 SF. / 0.04 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 36 OF 90

PLOTTED: 03:13 PM on Wednesday, May 27, 2015  
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FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\IMPACT\_PLATE\_SET\36-Plate-Line\_MB-impact16.dgn



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SPARKS, MARYLAND 21152  
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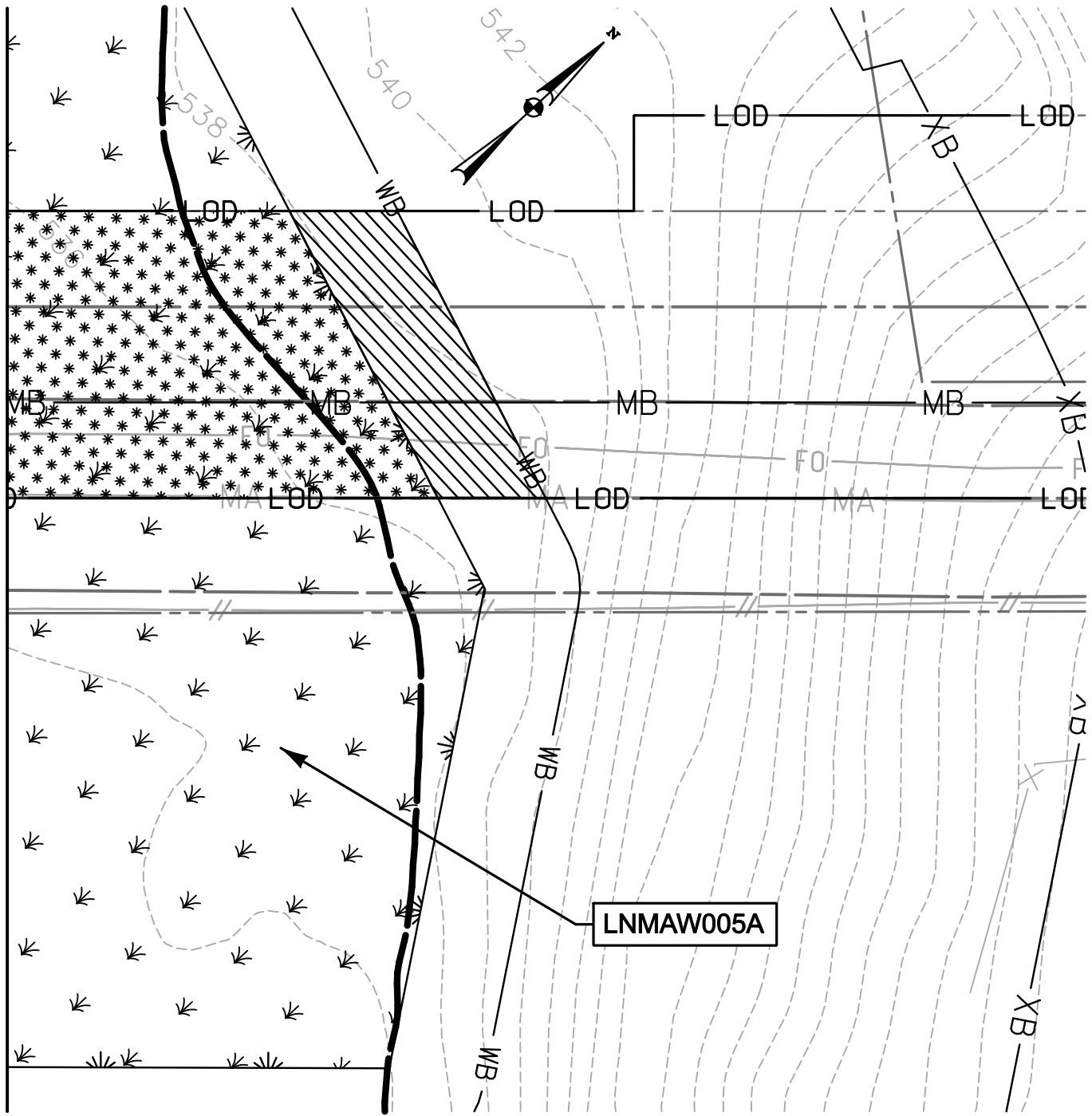
SCALE:  
1" = 40'

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CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 16**  
LNMAW005A; LNMAW014A

MATCHLINE (SEE IMPACT 16)



FLOODPLAIN IMPACT THIS SHEET: 5,171 SF. / 0.12 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 6,984 SF./ 0.16 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 2,111 SF./ 0.05 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 37 OF 90



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SCALE:  
1" = 40'

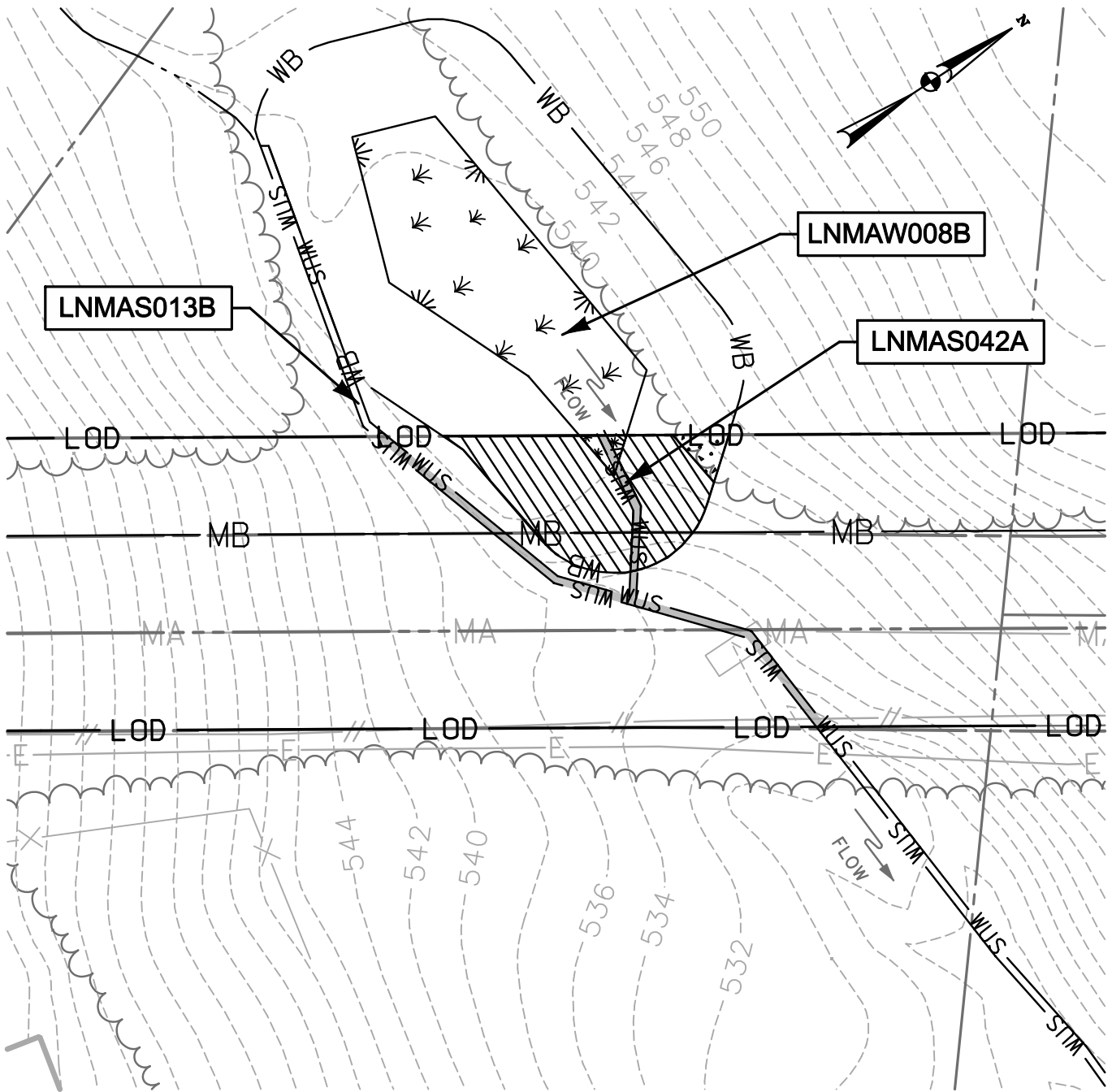
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CSD


LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

IMPACT 17

LNMAW005A

PLOTTED: '03:13 PM on Wednesday, May 27, 2015"  
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 TEMPORARY WATERS OF U.S. IMPACT  
 370 SF./ 0.008 AC./ 184 LF.


 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 45 SF./ 0.001 AC.


 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 1,589 SF./ 0.04 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 38 OF 90

PLOTTED: '03:13 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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DATE: REVISED  
MAY 2015

SCALE:  
1" = 40'

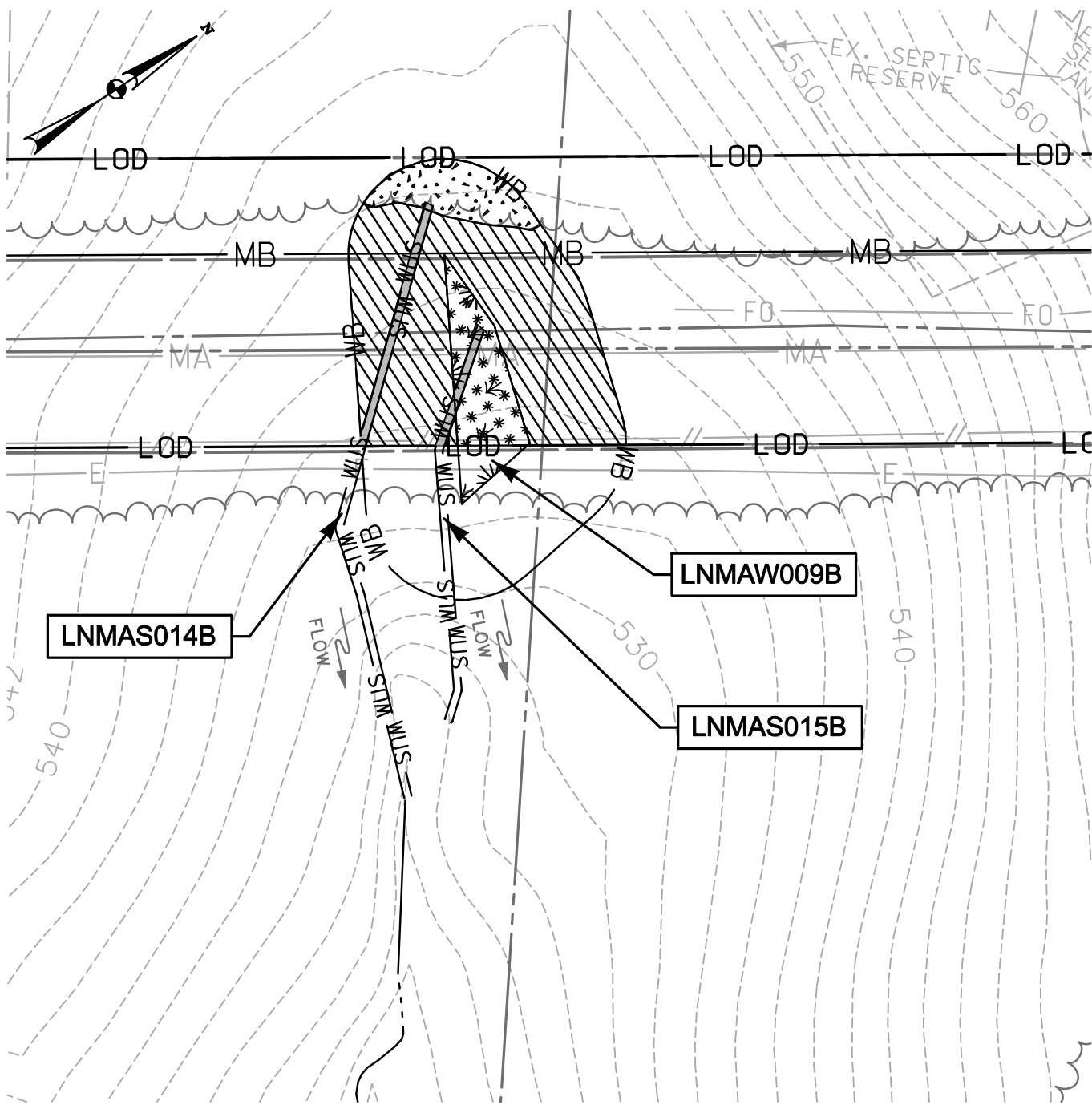
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 18**

LNMAW008B; LNMAW013B; LNMAW042A



 TEMPORARY WATERS OF U.S. IMPACT  
200 SF./ 0.005 AC./ 98 LF.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
512 SF./ 0.01 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
541 SF./ 0.01 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
2,931 SF./ 0.07 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 39 OF 90

PLOTTED: '03:13 PM on Wednesday, May 27, 2015"  
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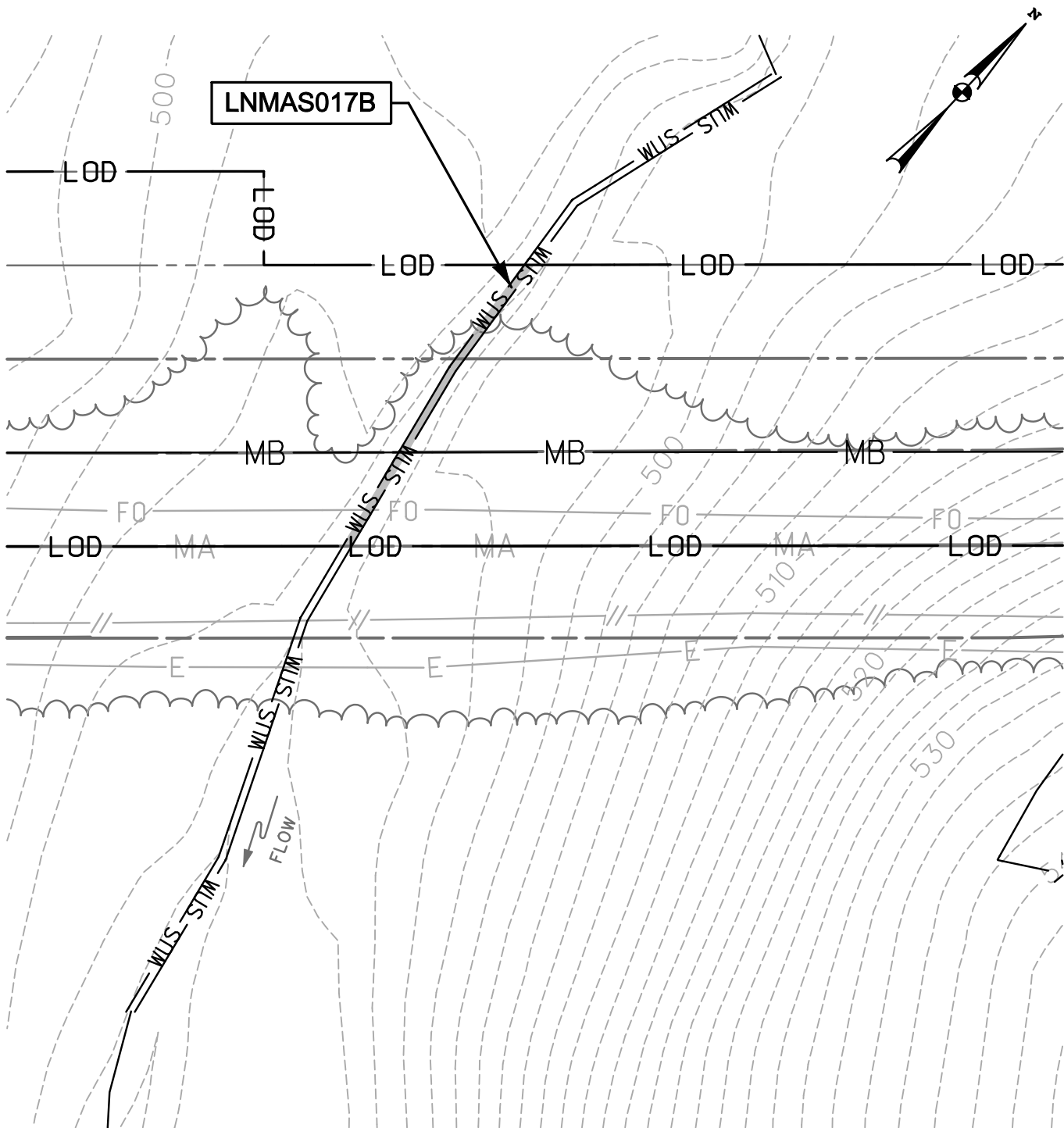
SCALE:  
1" = 40'


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CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
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**IMPACT 19**

LNMAW009B; LNMAW014B; LNMAW015B




 TEMPORARY WATERS  
 OF U.S. IMPACT  
 179 SF./ 0.004 AC./ 90 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 40 OF 90

PLOTTED: '03:13 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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MAY 2015

SCALE:  
1" = 40'

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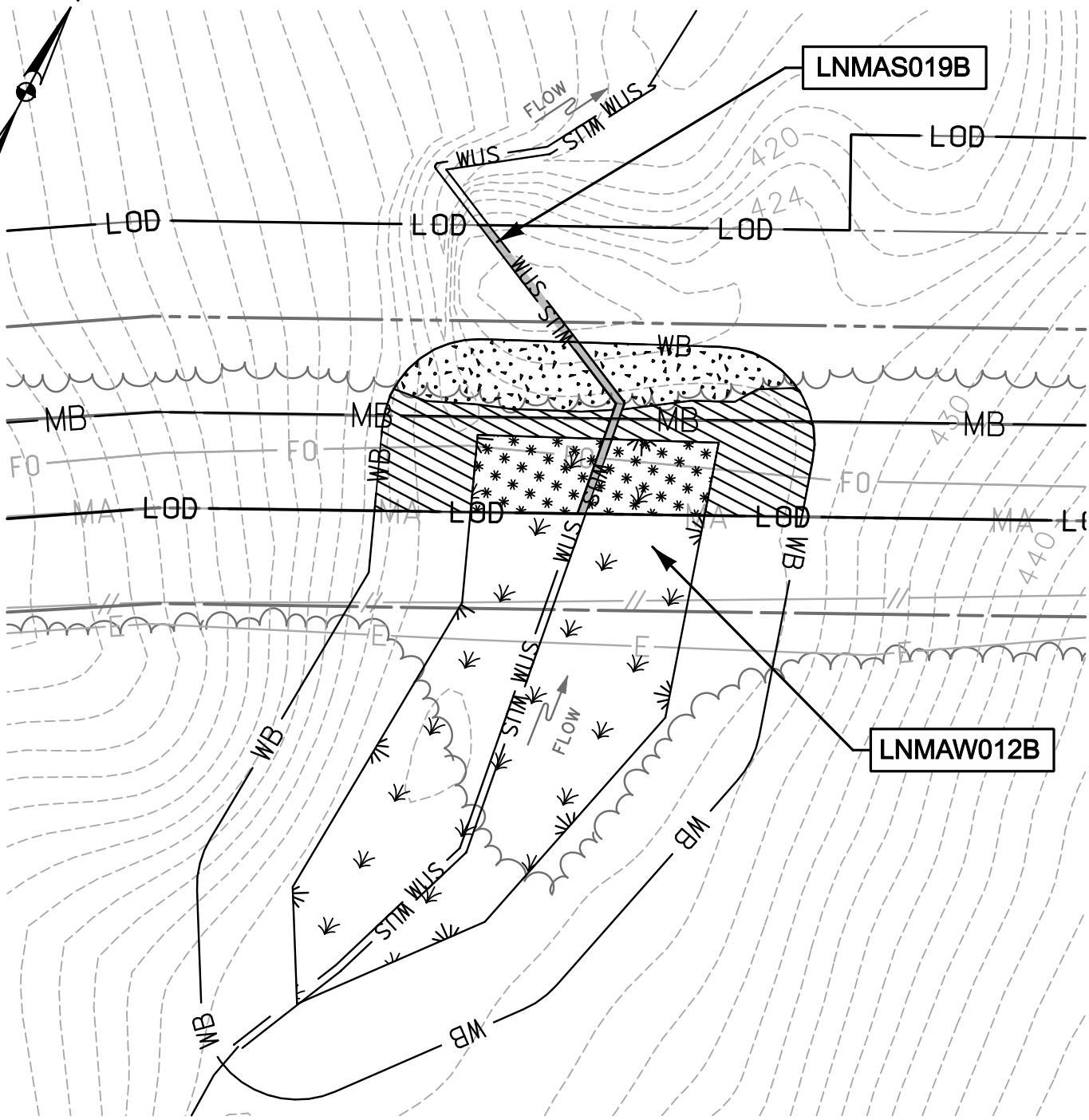
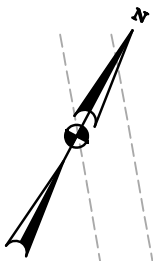
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314


MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 20**

LNMAS017B






 TEMPORARY WATERS OF U.S. IMPACT  
 178 SF./ 0.004 AC./ 89 LF.


 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
 1,462 SF./ 0.03 AC.


 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 1,179 SF./ 0.03 AC.


 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 2,024 SF./ 0.05 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 41 OF 90

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MAY 2015

SCALE:  
1" = 40'

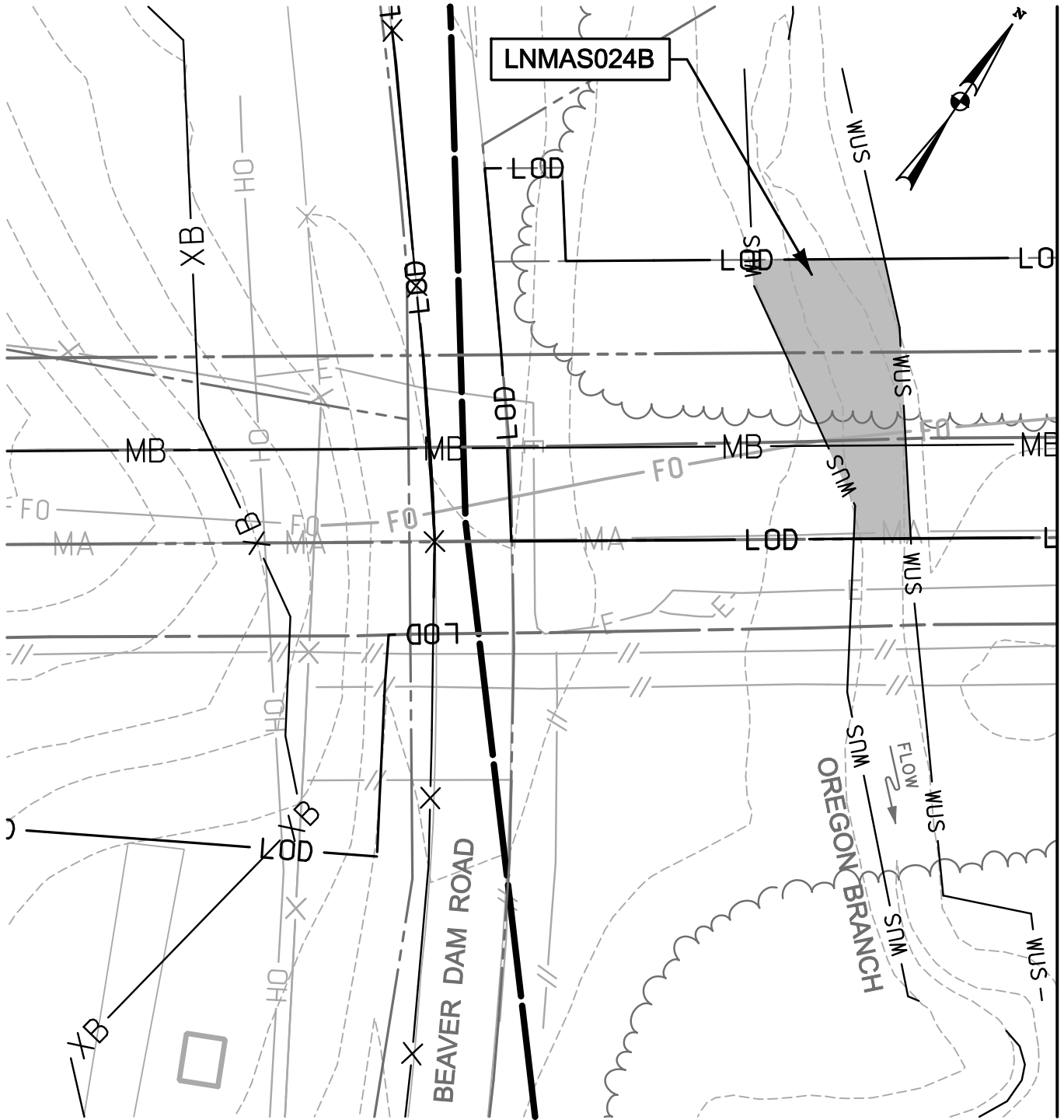
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 21**

LNMAW012B; LNMA019B



FLOODPLAIN IMPACT THIS SHEET: 11,685 SF. / 0.27 AC.

TEMPORARY WATERS OF U.S. IMPACT  
1,935 SF. / 0.04 AC. / 77 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 42 OF 90

PLOTTED: '03:13 PM on Wednesday, May 27, 2015"  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE.SET\42-Plate-LINE\_MB-impact22.dgn

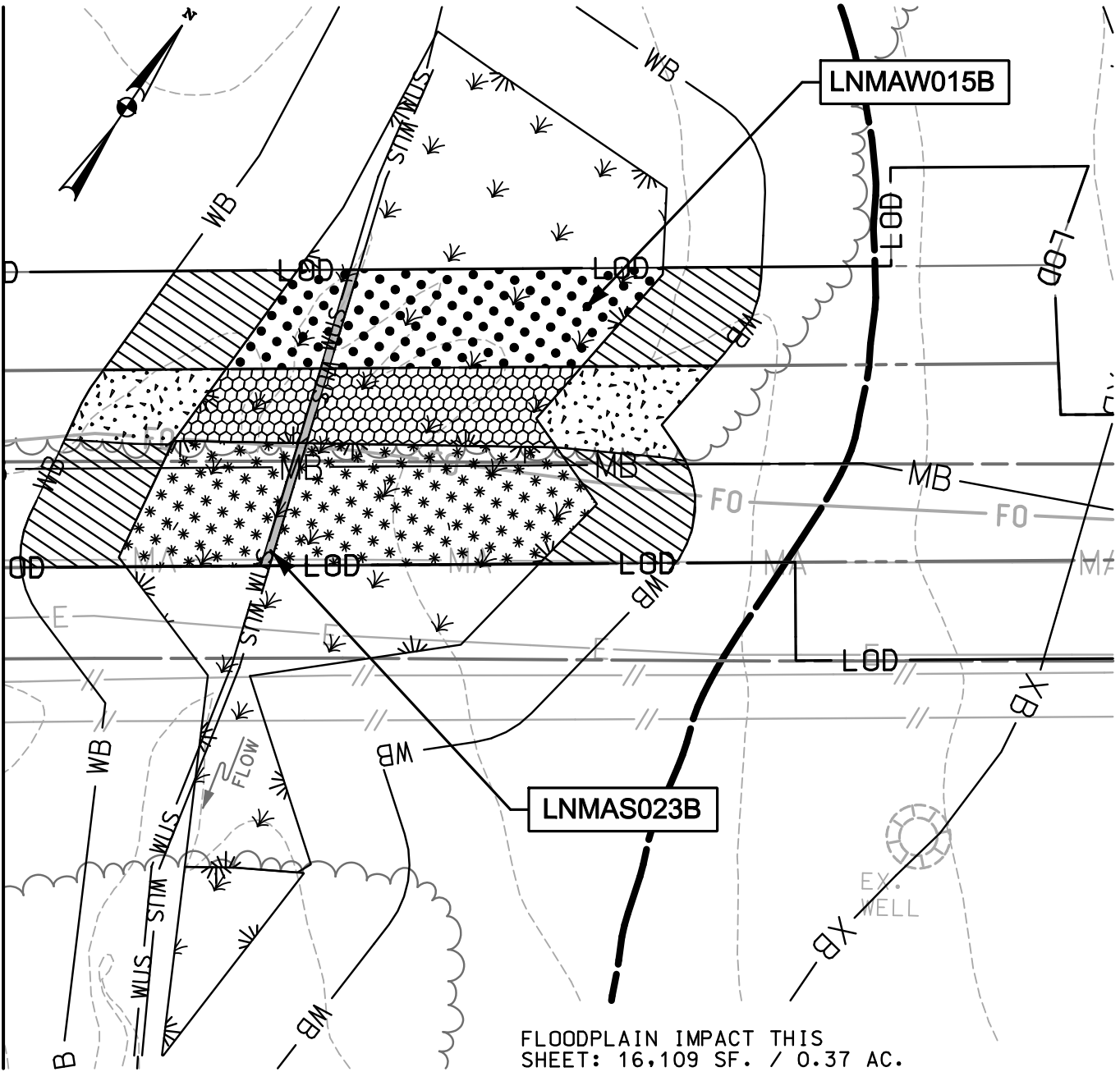


**ENGINEERS**  
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**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
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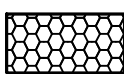

DATE: REVISED  
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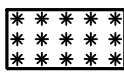


**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 22**  
 LNMAS024B

MATCHLINE (SEE IMPACT 22)



FLOODPLAIN IMPACT THIS SHEET: 16,109 SF. / 0.37 AC.

-  TEMPORARY WATERS OF U.S. IMPACT  
157 SF. / 0.004 AC. / 78 LF.
-  NON-TIDAL PFO WETLAND CONVERSION IMPACT  
1,704 SF. / 0.04 AC.
-  TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
2,253 SF. / 0.05 AC.

-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
3,276 SF. / 0.08 AC.
-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
966 SF. / 0.02 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
3,535 SF. / 0.08 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 43 OF 90

PLOTTED: 03:13 PM on Wednesday, May 27, 2015  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\\_IMPACT\_PLATE\\_SET\4.3-Plate-LINE\\_MB-impact23.dgn

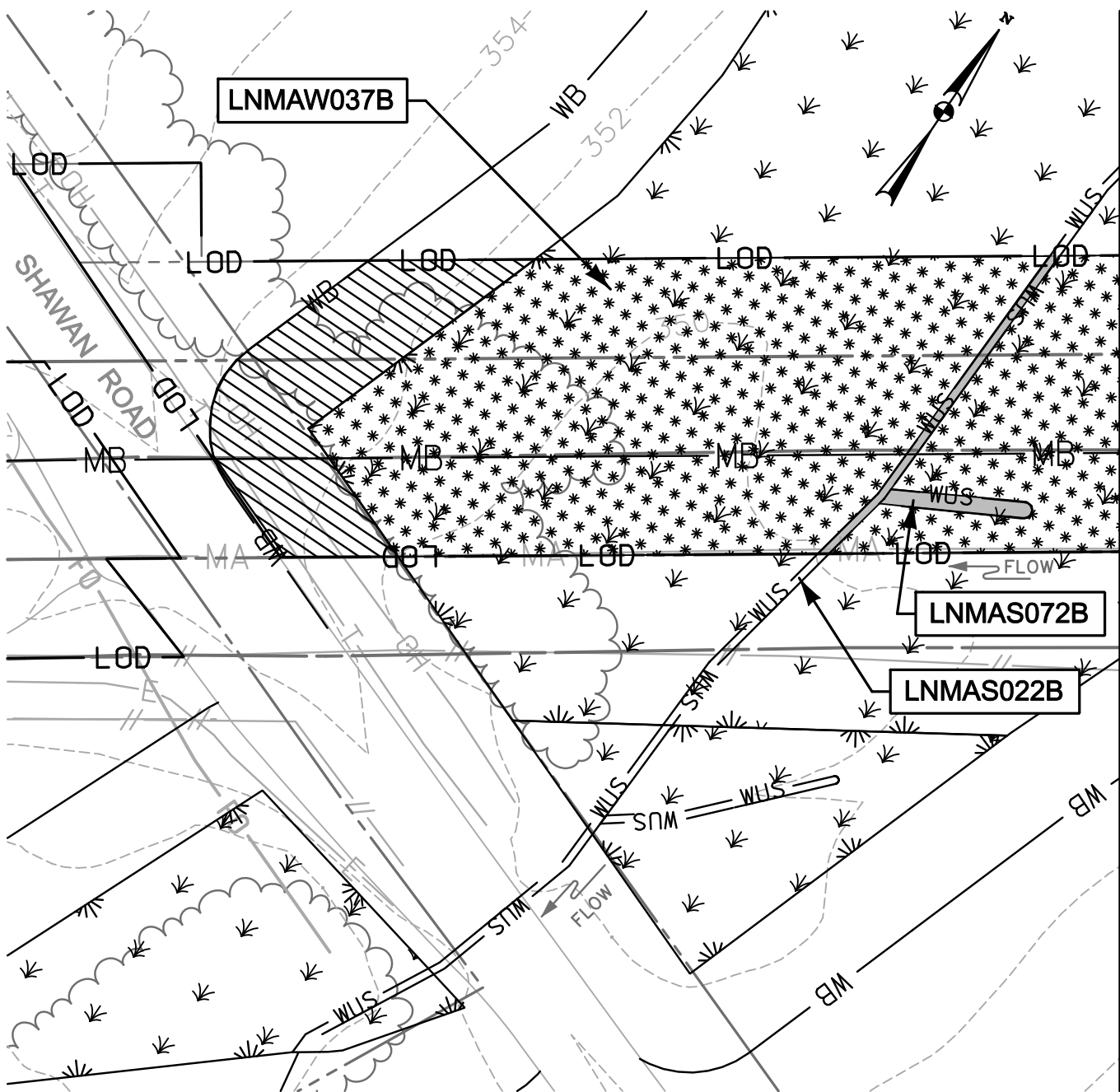


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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 23**  
 LNMAW015B; LNMAW023B



MATCHLINE (SEE IMPACT 25)

- TEMPORARY WATERS OF U.S. IMPACT  
 339 SF./ 0.008 AC./ 132 LF.
- TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 13,479 SF./ 0.31 AC.
- TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 2,623 SF./ 0.06 AC.

**NOTE:**  
 CLEARING, AND EROSION CONTROL DEVICE AND ACCESS BRIDGE INSTALLATION OCCURRED IN THESE RESOURCES PRIOR TO RECEIPT OF THE APRIL 30, 2015 COURT ORDER. NO FURTHER ACTIVITY HAS OCCURRED IN THESE RESOURCES.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 44 OF 90

PLOTTED: '03:13 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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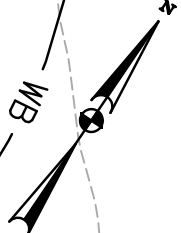
DATE: REVISED  
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SCALE:  
1" = 40'

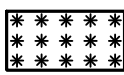
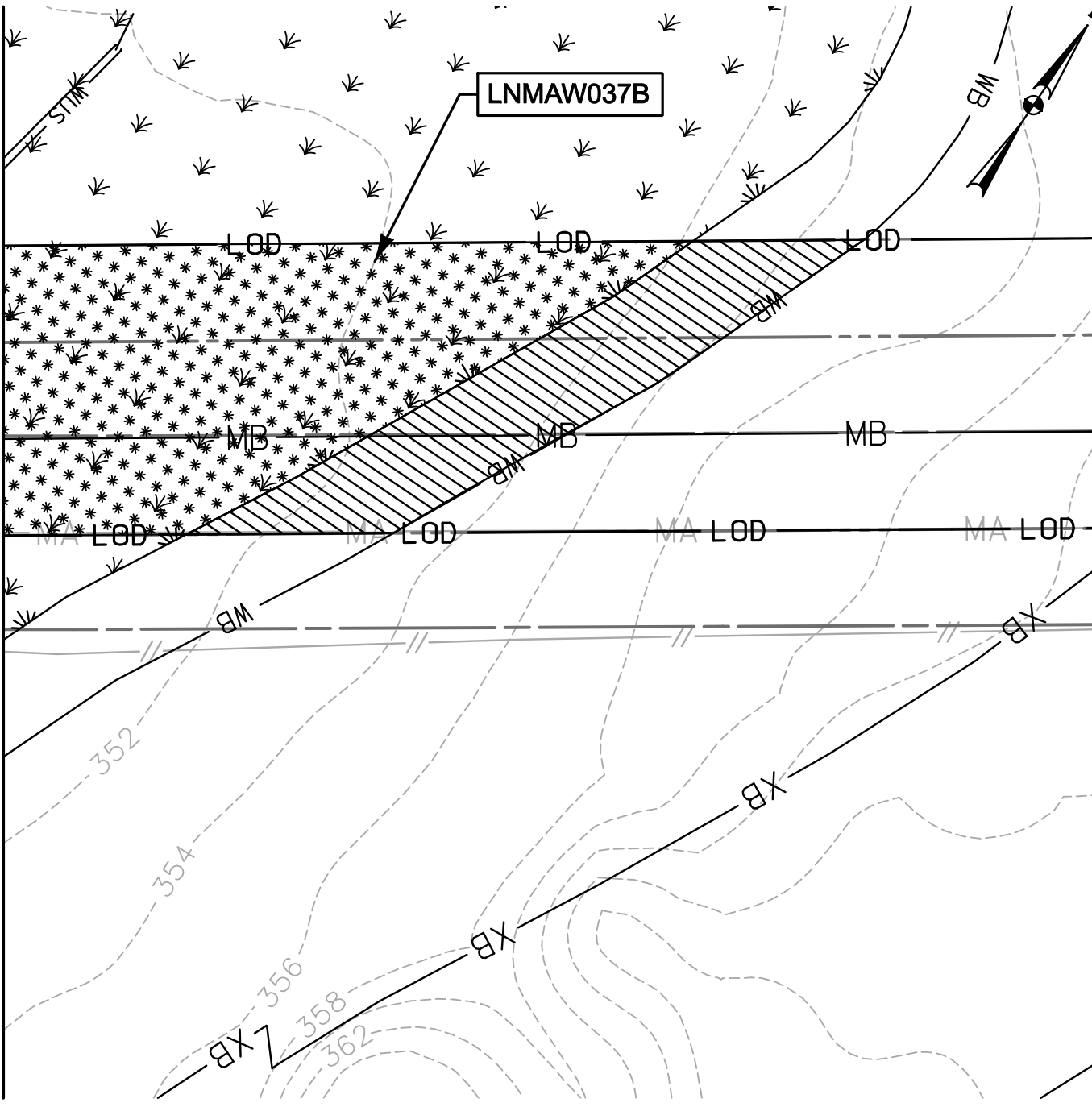
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CSD

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**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 24**  
 LNMAW037B; LNMAW022B; LNMAW072B

LNMAW037B



MATCHLINE (SEE IMPACT 24)



TEMPORARY NON-TIDAL  
PEM WETLAND IMPACT  
8,680 SF./ 0.20 AC.



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
3,679 SF./ 0.08 AC.

NOTE:  
CLEARING, AND EROSION CONTROL DEVICE AND  
ACCESS BRIDGE INSTALLATION OCCURRED IN  
THESE RESOURCES PRIOR TO RECEIPT OF THE  
APRIL 30, 2015 COURT ORDER. NO FURTHER  
ACTIVITY HAS OCCURRED IN THESE RESOURCES.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 45 OF 90

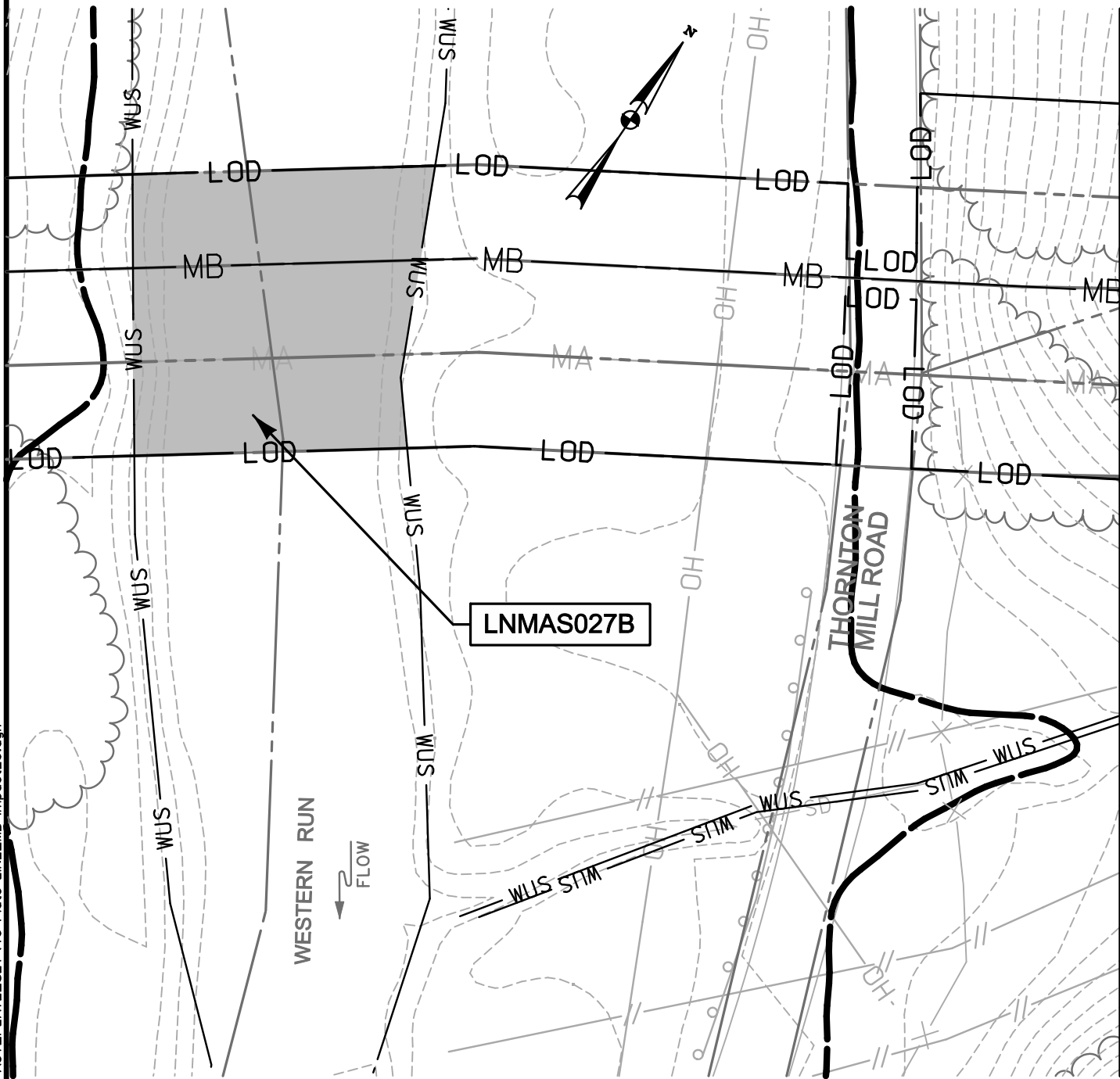


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LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 25**  
LNMAW037B

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FILE: M:\2012\16121849-drawings\IMPACT\_PLATE.SET\45-Plate-LINE\_MB-impact25.dgn



MATCHLINE (SEE IMPACT 27)

FLOODPLAIN IMPACT THIS SHEET: 15,273 SF. 0.35 AC.

TEMPORARY WATERS OF U.S. IMPACT  
 5,620 SF. / 0.13 AC. / 75 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 46 OF 90

PLOTTED: "12:42 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\46-Plate-Line\_MB-impact26.dgn

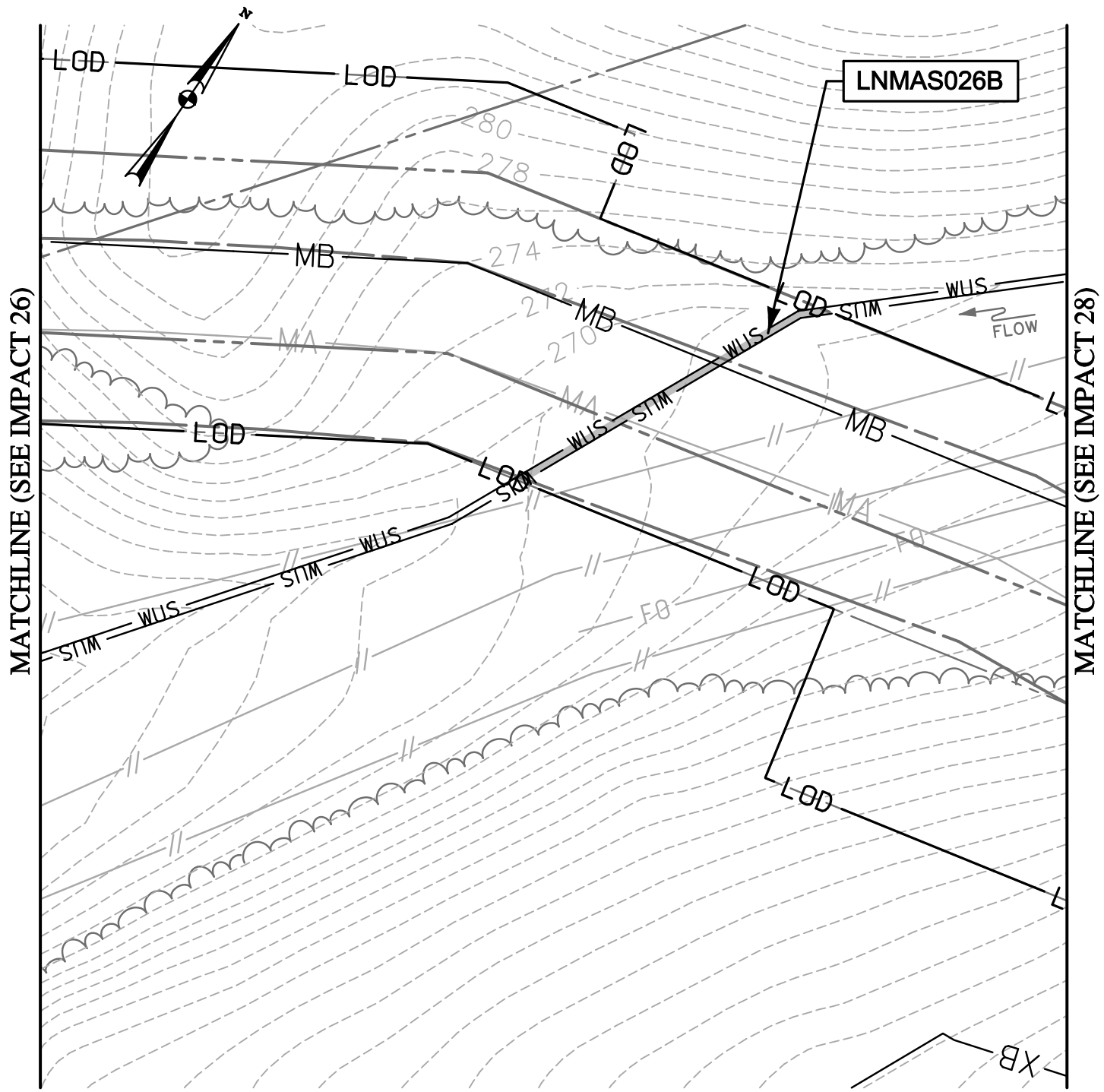


**ENGINEERS**  
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**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 26**  
 LNMAS027B

PLOTTED: "12:42 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\47-Plate-LINE\_MB-impact27.dgn



TEMPORARY WATERS  
 OF U.S. IMPACT  
 197 SF./ 0.005 AC./ 97 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 47 OF 90



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SCALE:  
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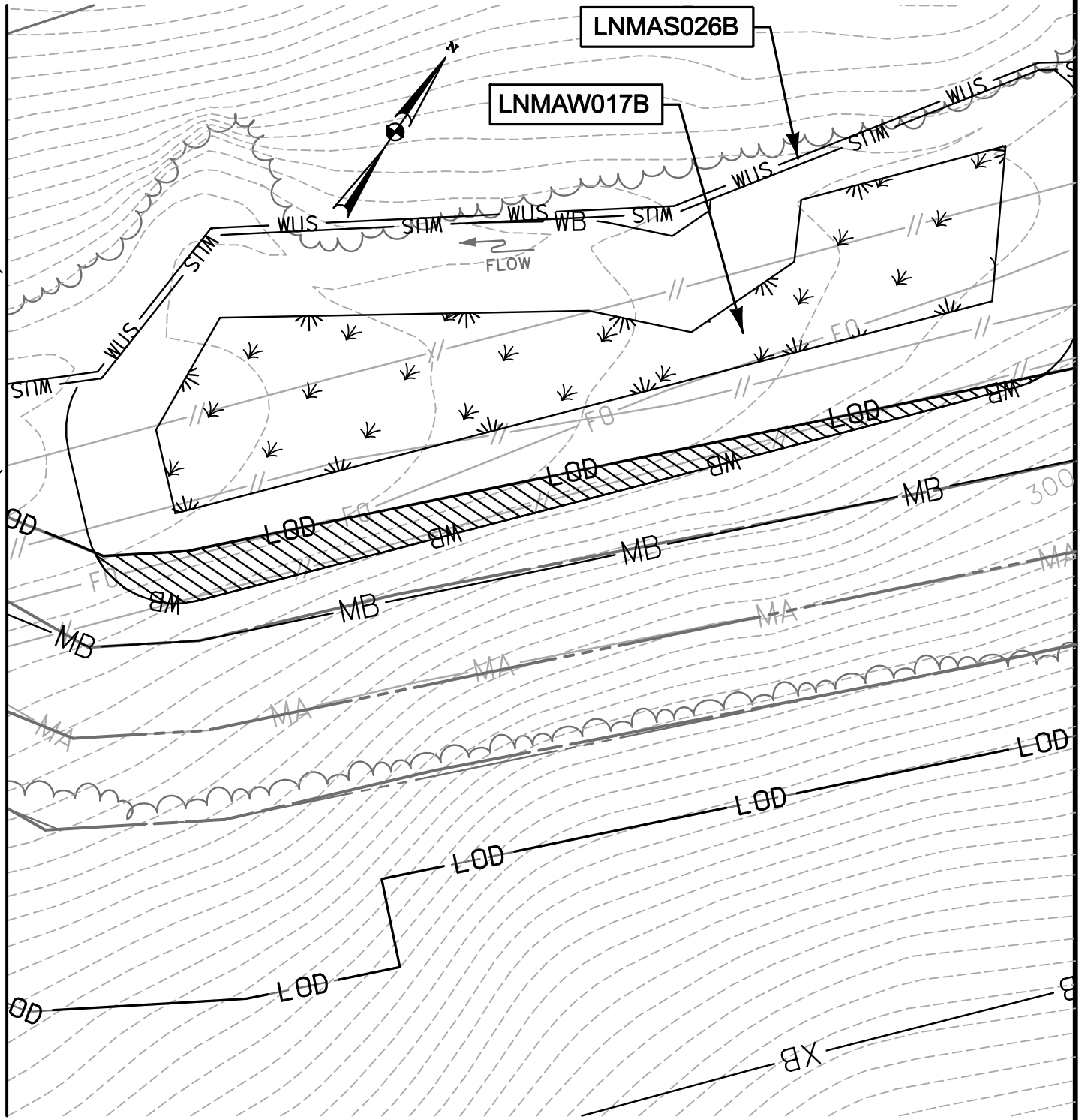
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LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 27**  
 LNMAS026B

PLOTTED: "12:42 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849-drawings\IMPACT\_PLATE.SET\48-Plate-LINE\_MB-impact28.dgn

MATCHLINE (SEE IMPACT 27)




 TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 2,188 SF./ 0.05 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 48 OF 90



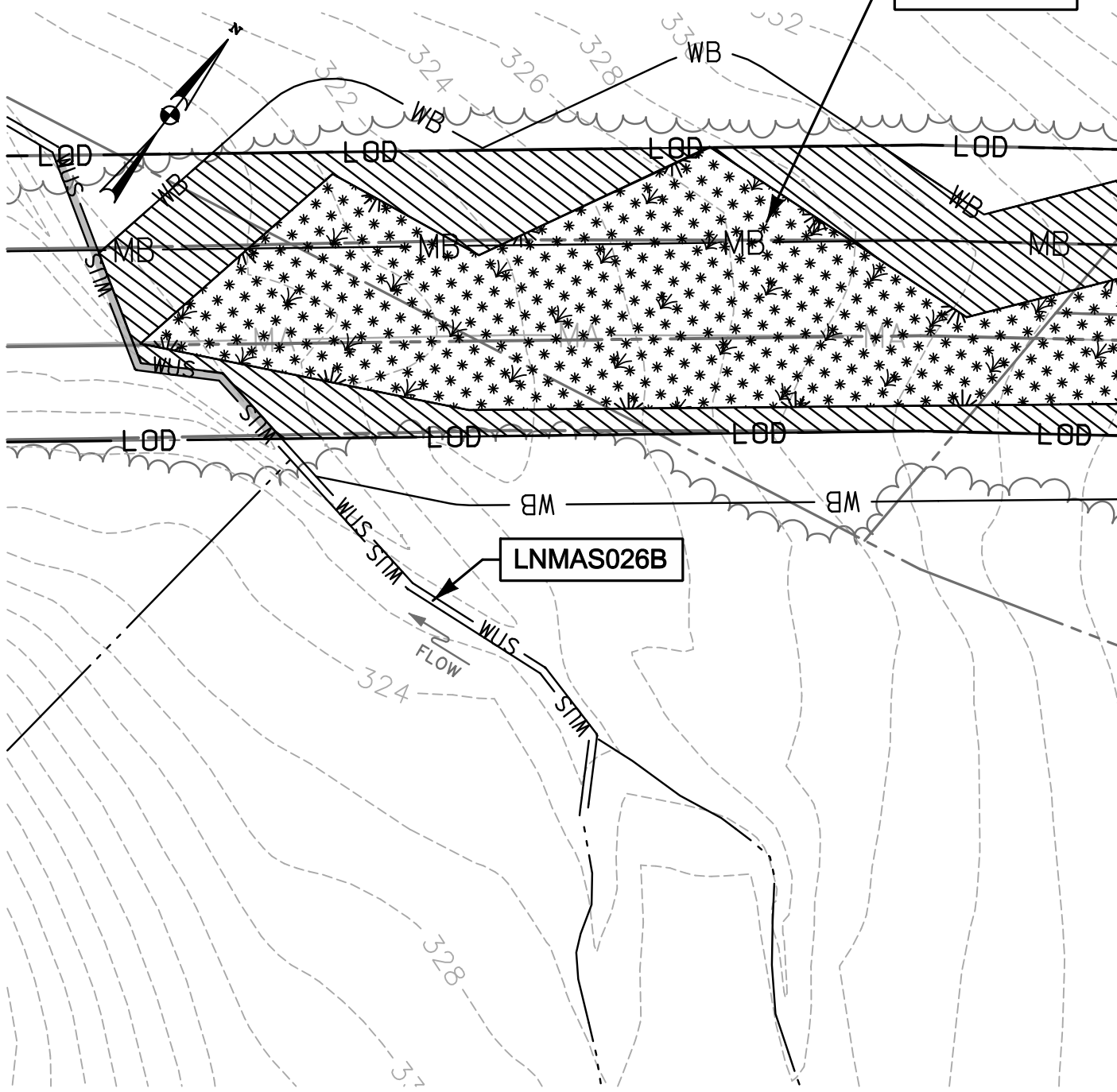
**KCI**  
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 SCALE:  
 1" = 40'  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 28**  
 LNMAW026B; LNMAW017B




LNMAW016B



MATCHLINE (SEE IMPACT 30)

LNMAW026B


 TEMPORARY WATERS OF U.S. IMPACT  
 203 SF./ 0.005 AC./ 103 LF.


 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 7,355 SF./ 0.17 AC.


 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 10,718 SF./ 0.25 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 49 OF 90

PLOTTED: 11:42 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATESET\49-Plate-LINE\_MB-impact29.dgn



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MAY 2015

SCALE:  
1" = 40'

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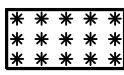
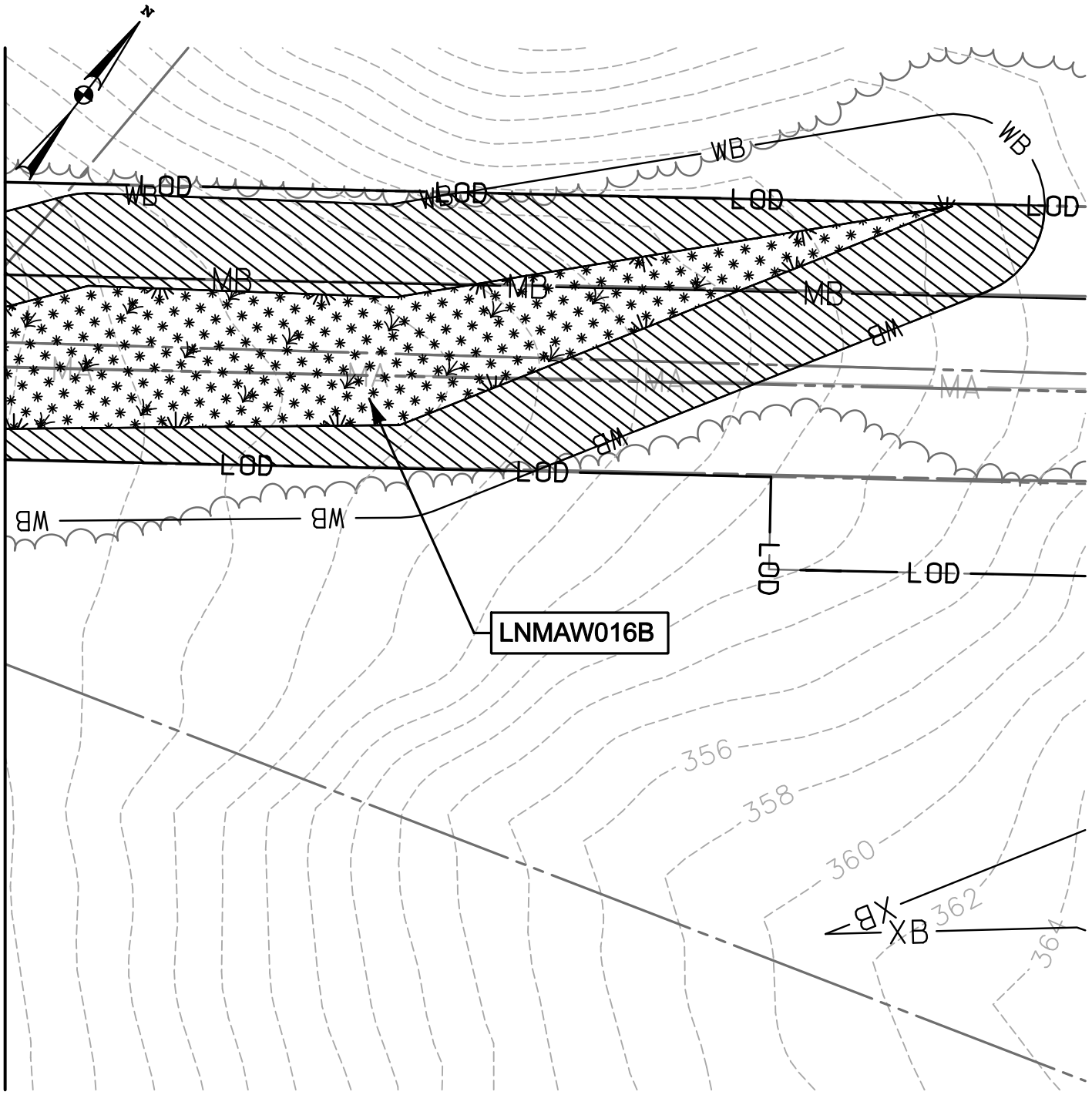
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 29**

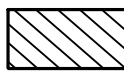
LNMAW016B; LNMAW026B

PLOTTED: "12:42 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\50-Plate-LINE\_MB-impact30.dgn

MATCHLINE (SEE IMPACT 29)



TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 6,477 SF./ 0.15 AC.



TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 10,163 SF./ 0.23 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

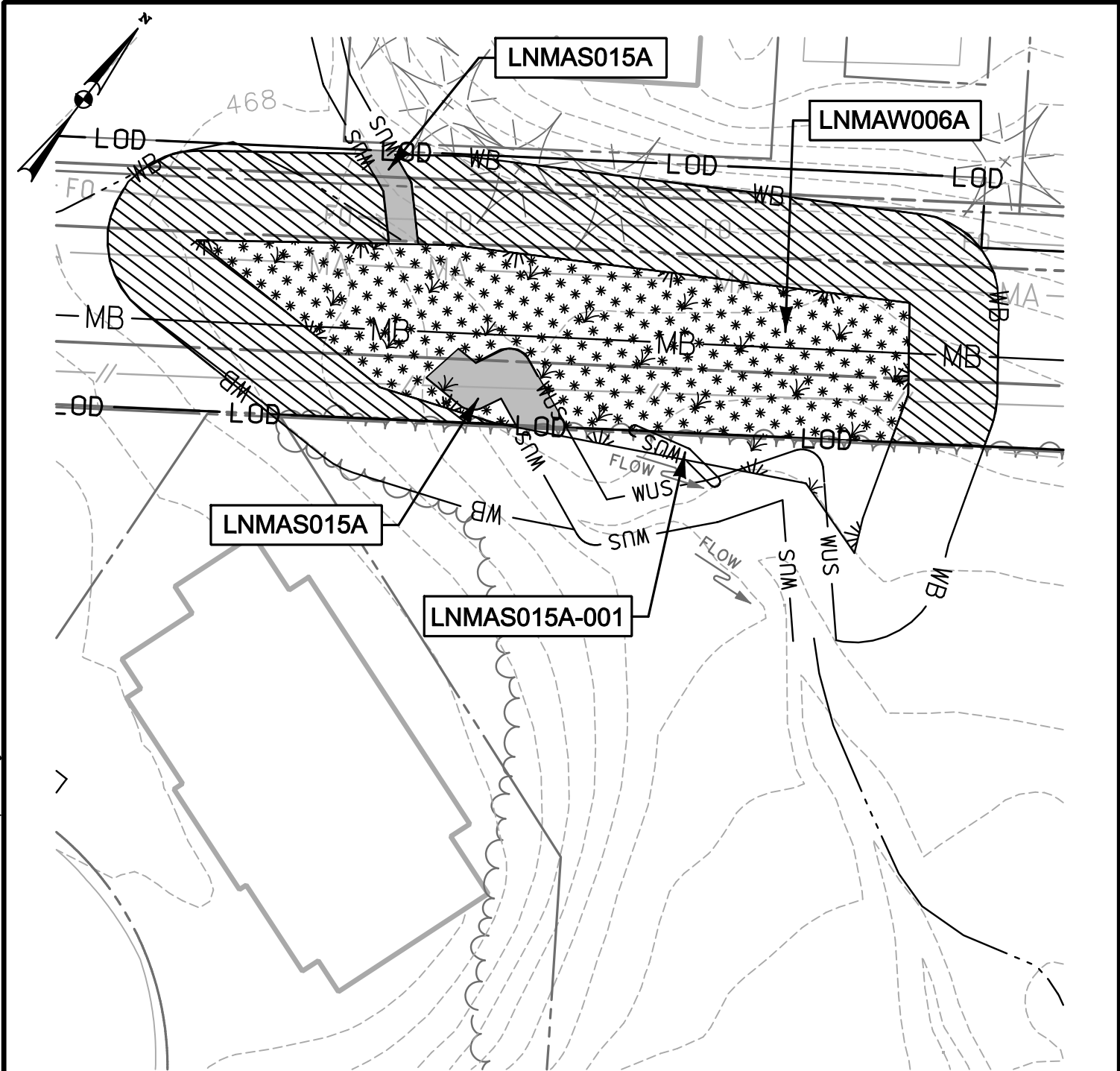
SHEET 50 OF 90




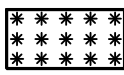
**ENGINEERS**  
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**CONSTRUCTION MANAGERS**  
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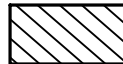
DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 30**  
 LNMAW016B



 TEMPORARY WATERS OF U.S. IMPACT  
 793 SF./ 0.02 AC./ 41 LF.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 6,940 SF./ 0.16 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 8,748 SF./ 0.20 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 51 OF 90

PLOTTED: 11:42 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\51-Plate-LINE\_MB-impact31.dgn



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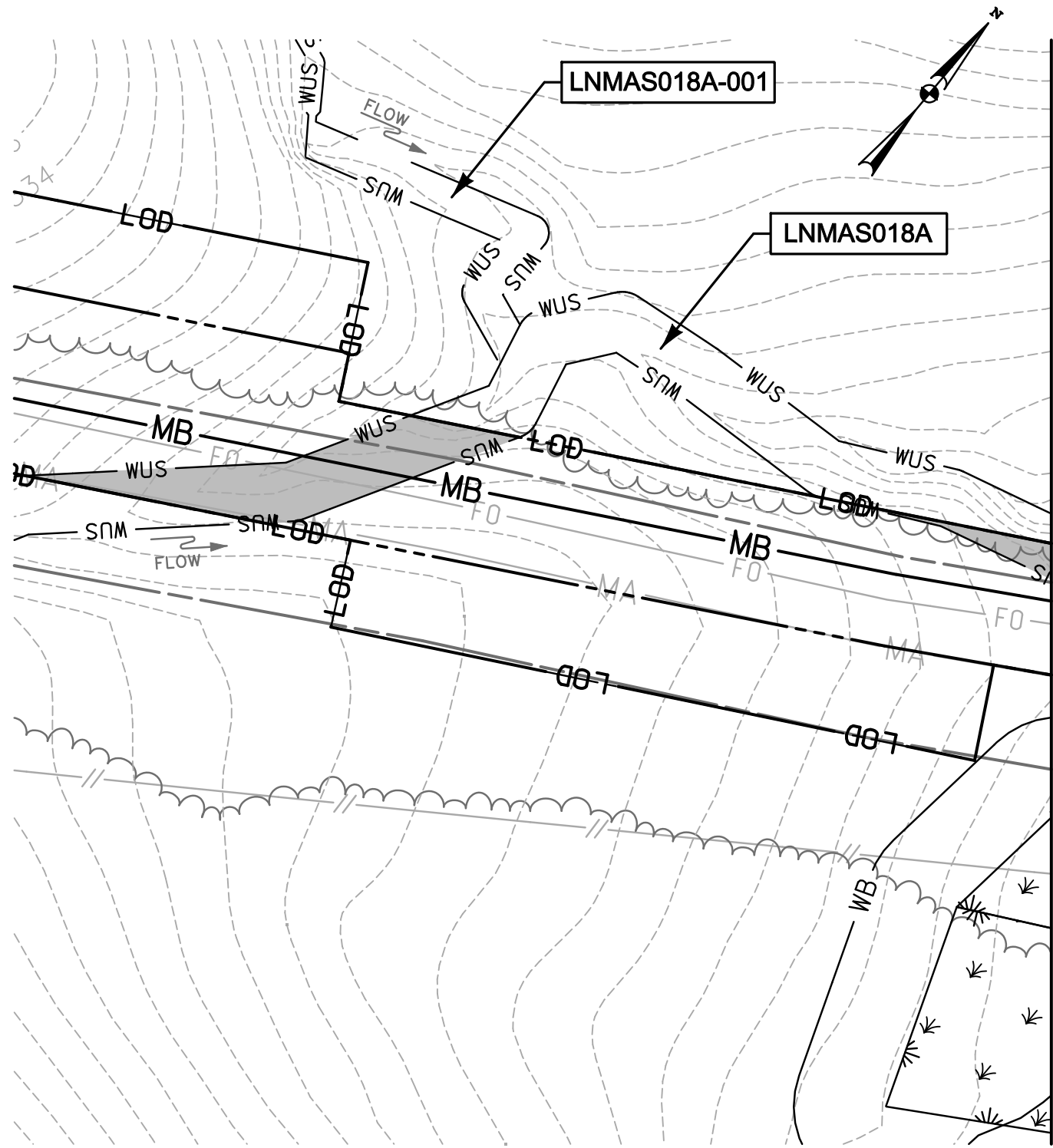
DATE: REVISED  
 MAY 2015

SCALE:  
 1" = 40'


DRAWN BY:  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 31**  
 LNMA015A; LNMAW006A; LNMA015A-001

PLOTTED: 02:43 PM on Friday, July 17, 2015  
BY: Division  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\52-Plate-LINE\_MB-impact32\_OPEN.CUT.dgn



MATCHLINE (SEE IMPACT 33)


 TEMPORARY WATERS  
 OF U.S. IMPACT  
 1,645 SF./ 0.04 AC./ 115 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 52 OF 90



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 FAX: (410) 316-7818

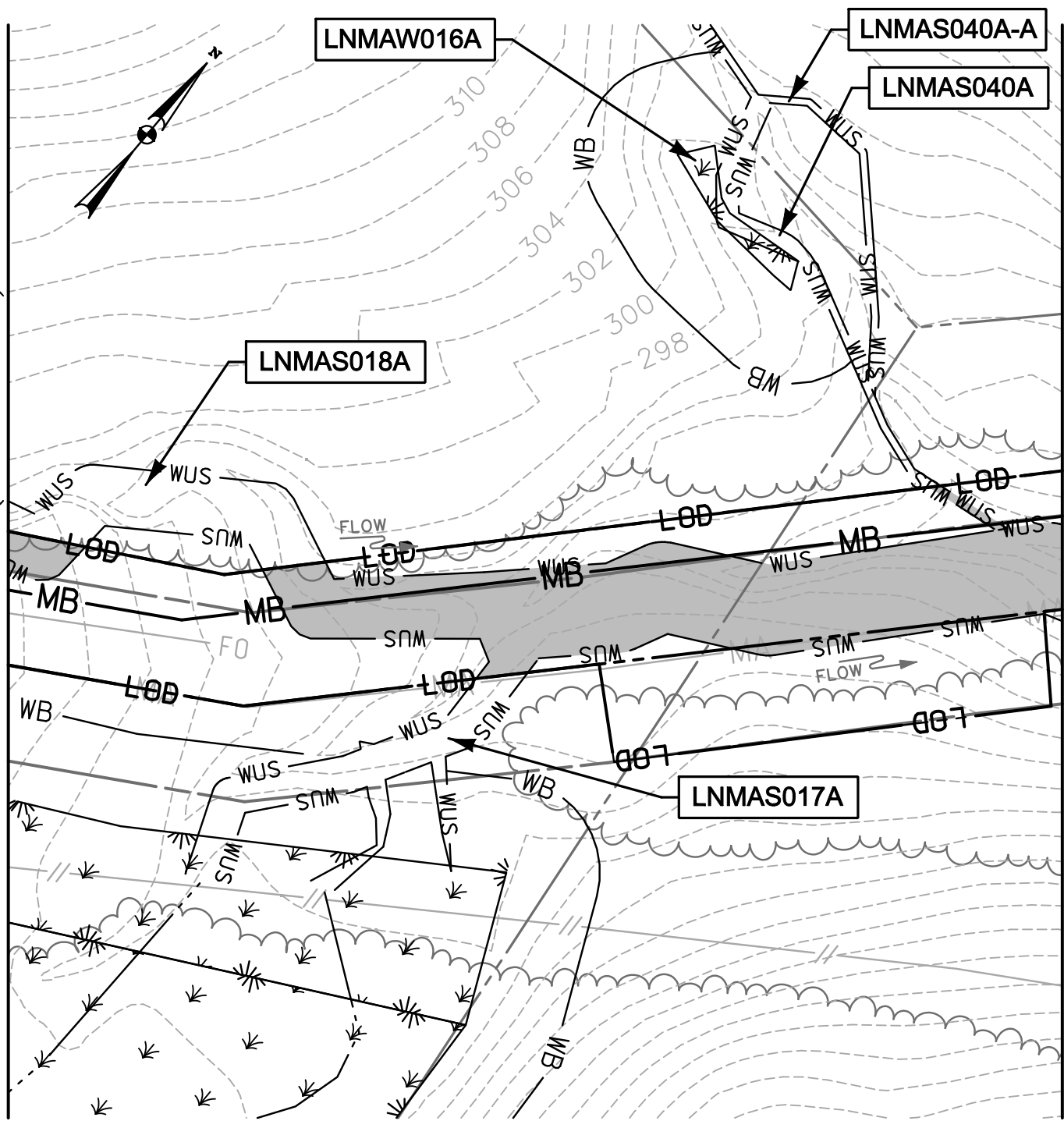
DATE: REVISED  
 JULY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
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LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 32**  
 LNMAS018A-001; LNMAS018A

PLOTTED: 02:43 PM on Friday, July 17, 2015  
 BY: Division  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\53-Plate-Line\_MB-impact33\_OPEN.CUT.dgn

MATCHLINE (SEE IMPACT 32)

MATCHLINE (SEE IMPACT 34)



TEMPORARY WATERS OF U.S. IMPACT  
 4,988 SF. / 0.11 AC. / 245 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 53 OF 90



**ENGINEERS**  
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DATE: REVISED  
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SCALE:  
 1" = 40'

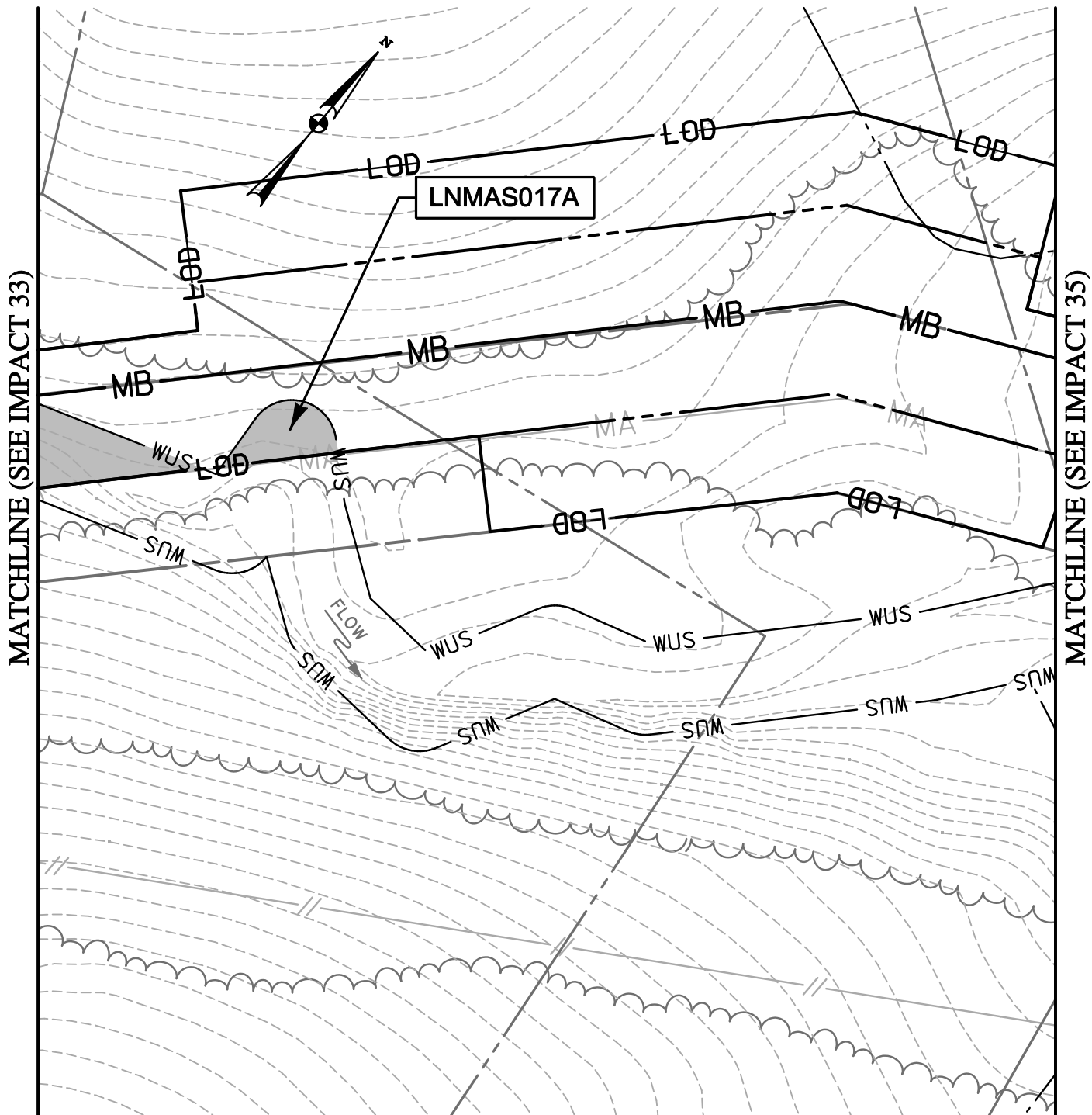
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 33**

LNMAW016A; LNMAW017A; LNMAW018A; LNMAW040A; LNMAW040A-A

PLOTTED: 02:44 PM on Friday, July 17, 2015  
 BY: Division  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\54-Plate-LINE\_MB-impact34\_OPEN.CUT.dgn




 TEMPORARY WATERS  
 OF U.S. IMPACT  
 870 SF./ 0.02 AC./ 66 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 54 OF 90

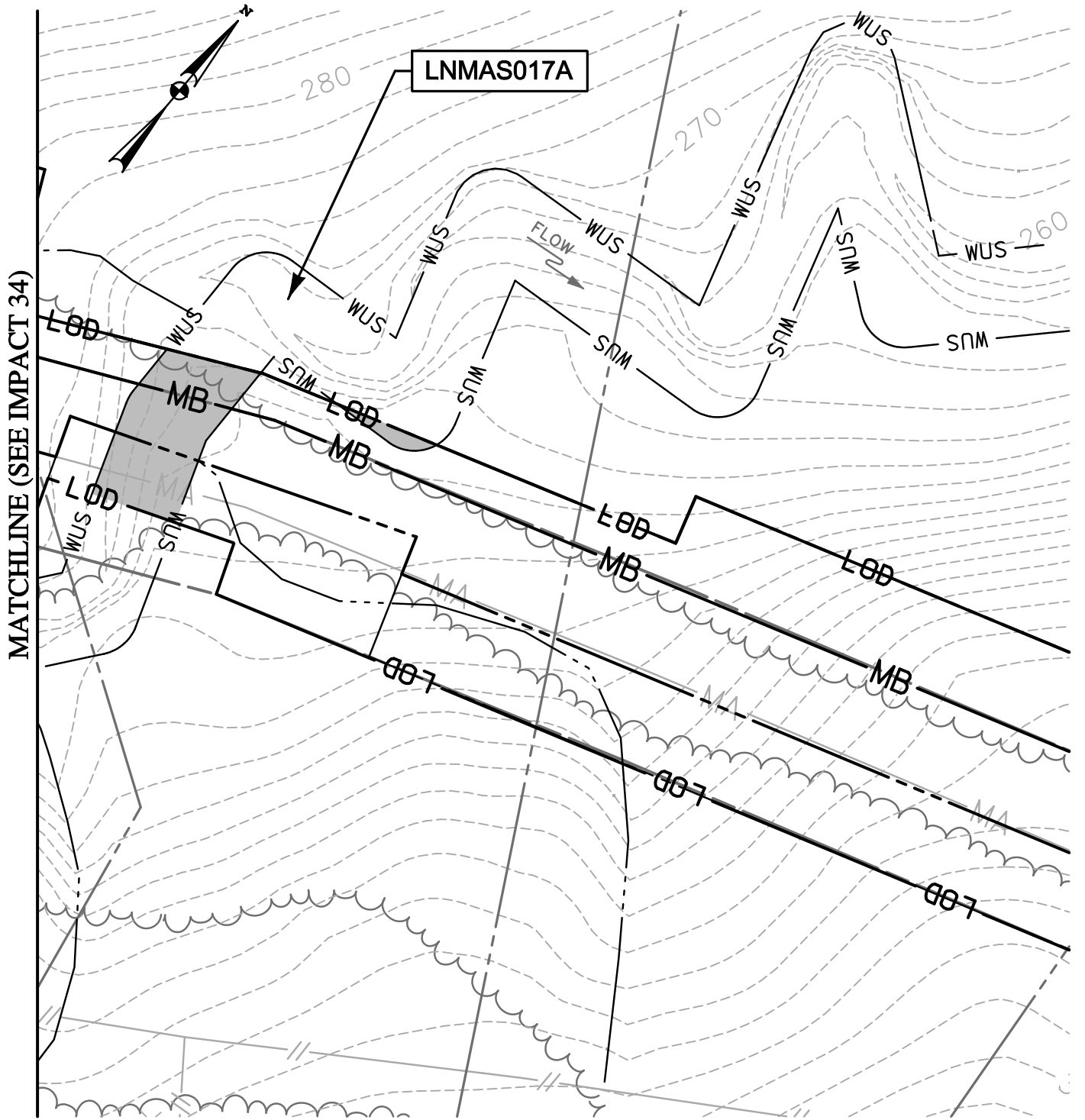



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DATE: REVISED  
 JULY 2015  
 SCALE:  
 1" = 40'  
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LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 34**  
 LNMAS017A

PLOTTED: 02:45 PM on Friday, July 17, 2015  
 BY: Division:  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\55-Plate-LINE\_MB-impact35\_OPEN.CUT.dgn




 TEMPORARY WATERS  
 OF U.S. IMPACT  
 1,193 SF./ 0.03 AC./ 76 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 55 OF 90



ENGINEERS  
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 FAX: (410) 316-7818

DATE: REVISED  
 JULY 2015

SCALE:  
 1" = 40'

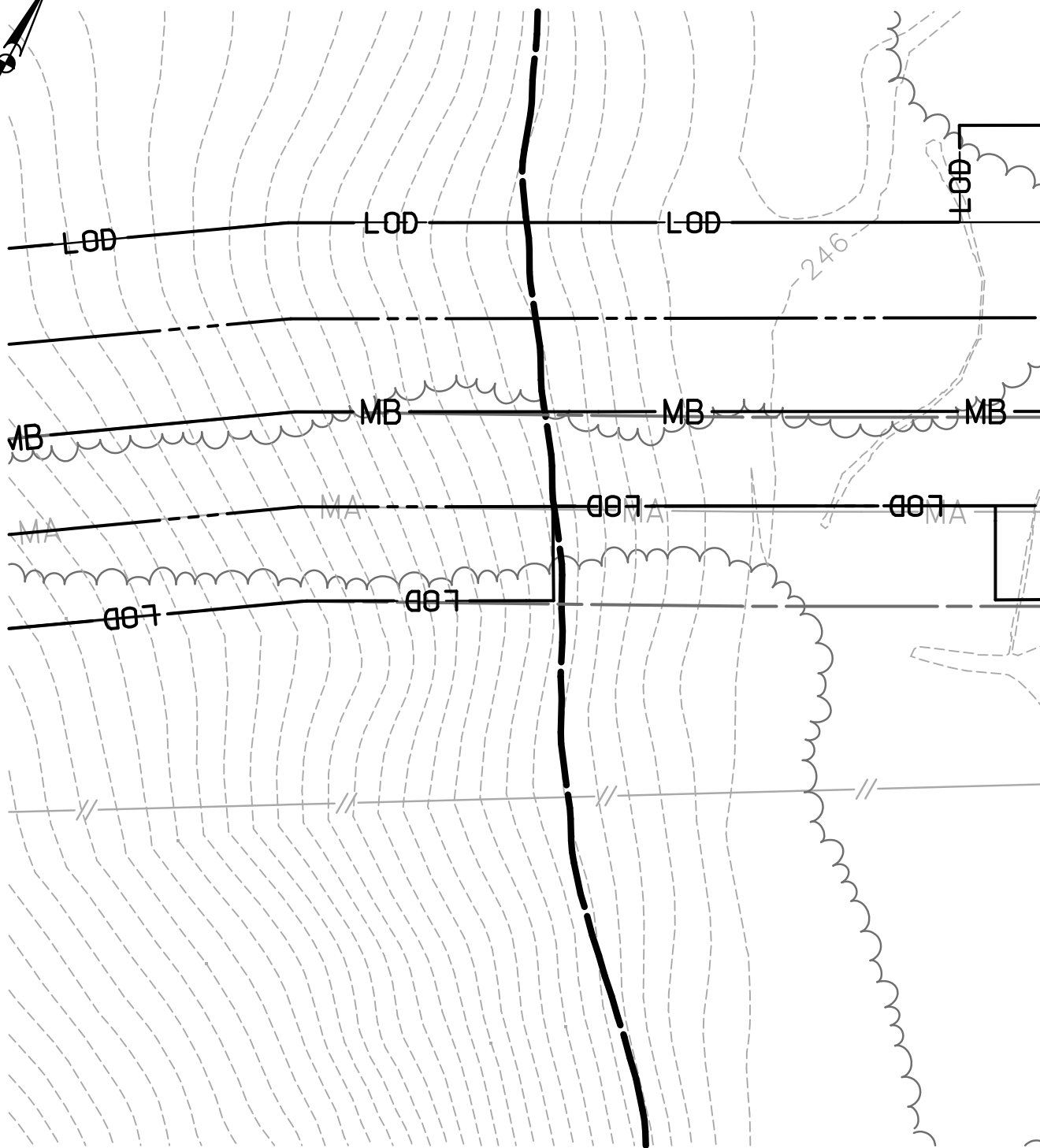
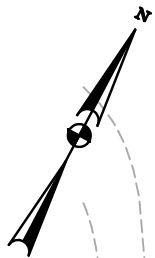
DRAWN BY:  
 CSD

LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 35**

LNMAS017A



MATCHLINE (SEE IMPACT 36)

NOTE: FLOODPLAIN IMPACTS ONLY THIS SHEET.  
 FLOODPLAIN IMPACT THIS SHEET: 10,868 SF. / 0.25 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 55A OF 90



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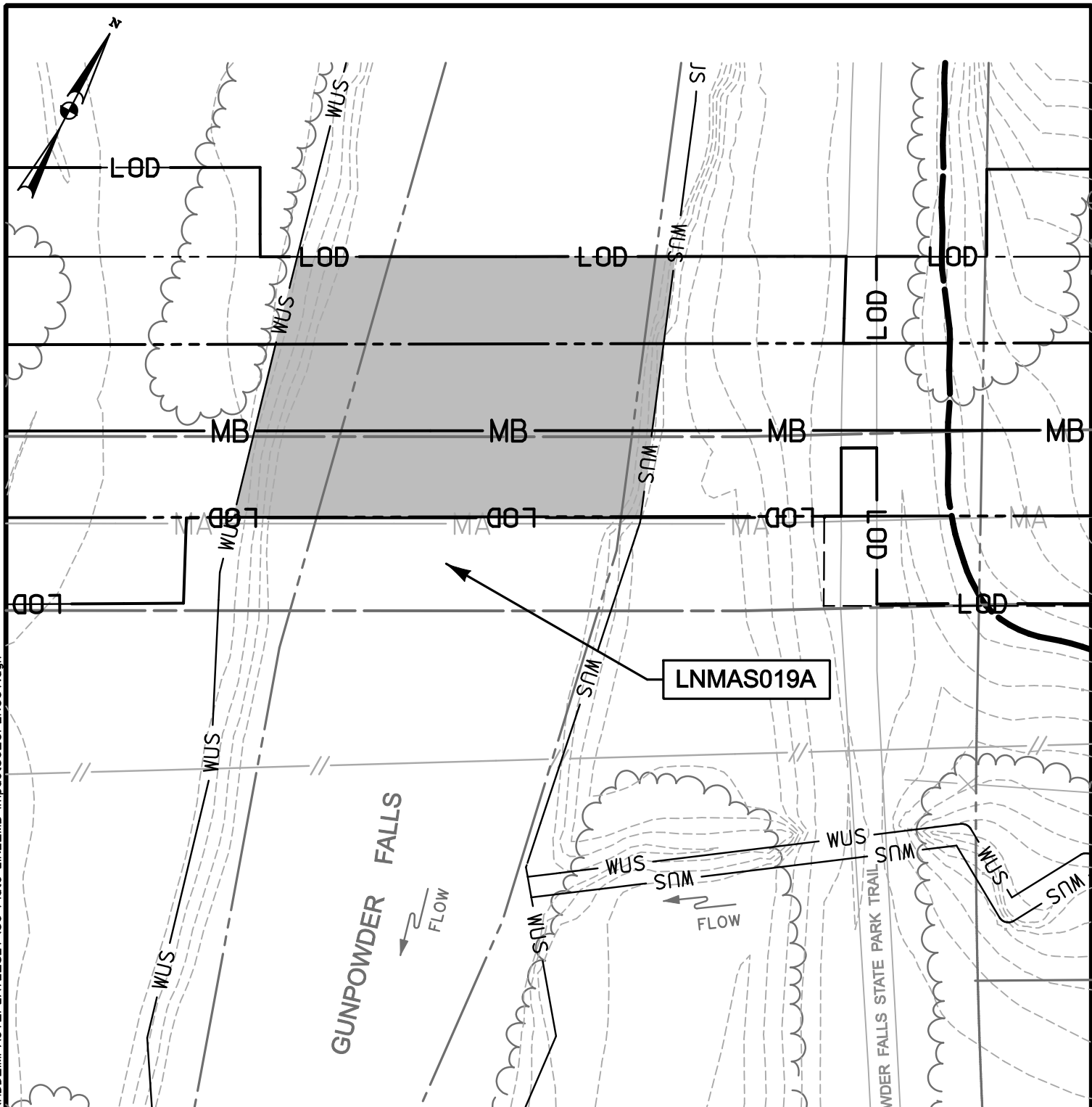
SCALE:  
 1" = 40'


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 CSD

LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
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**IMPACT 35A**

PLOTTED: 02:45 PM on Friday, July 17, 2015  
 BY: Division:  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATESET\56-Plate-LINE\_MB-impact35A\_OPENCUT.dgn






 TEMPORARY WATERS  
 OF U.S. IMPACT  
 8,467 SF. / 0.19 AC. / 76 LF.

FLOODPLAIN IMPACT THIS SHEET:  
 23,612 SF. / 0.54 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 56 OF 90

PLOTTED: 02:46 PM on Friday, July 17, 2015  
 BY: Division:  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\_56-Plate-LINE\_MB-impact36\_OPEN.CUT.dgn



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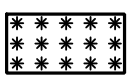
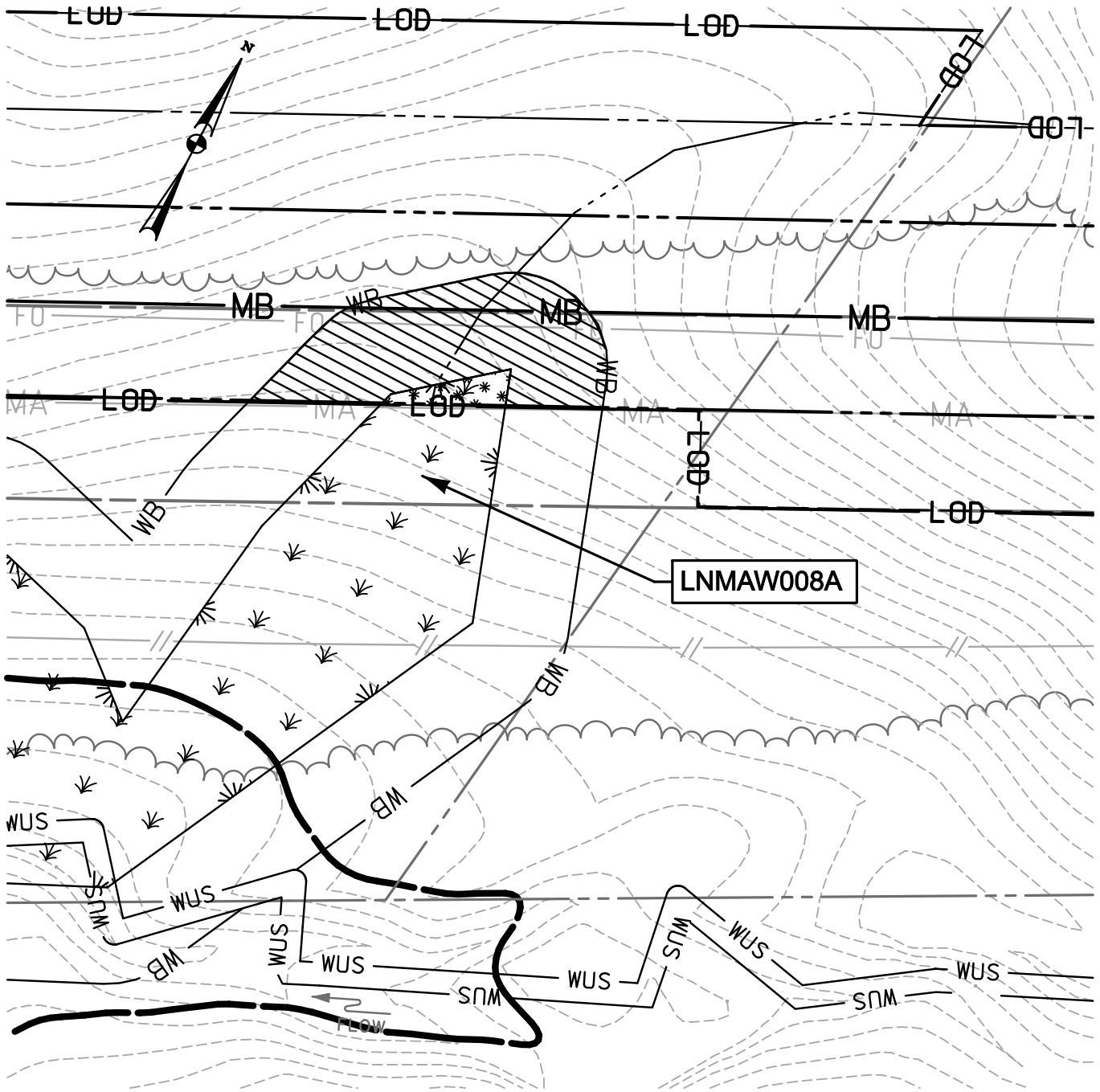
SCALE:  
1" = 40'

DRAWN BY:  
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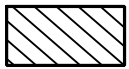
LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 36**

LNMA019A



TEMPORARY NON-TIDAL  
PEM WETLAND IMPACT  
193 SF./ 0.004 AC.



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
2,177 SF./ 0.05 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 57 OF 90



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DATE: REVISED  
JULY 2015

SCALE:  
1" = 40'

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CSD

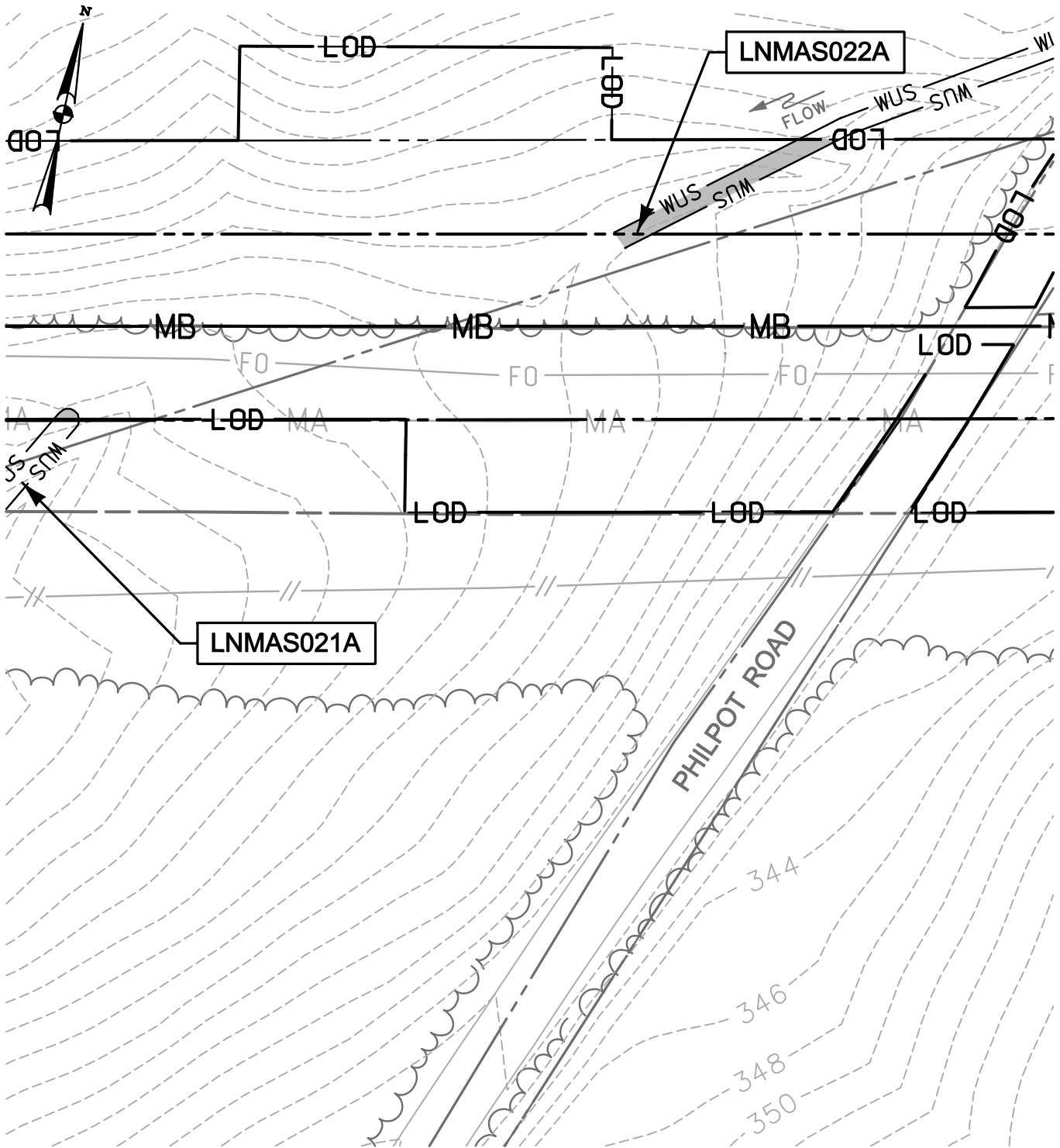
LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 37**

LNMAW008A

PLOTTED: 02:46 PM on Friday, July 17, 2015  
 BY: Division  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE.SET\57-Plate-Line\_MB-impact37\_OPEN.CUT.dgn



NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 58 OF 90



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SCALE:  
1" = 40'

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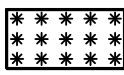
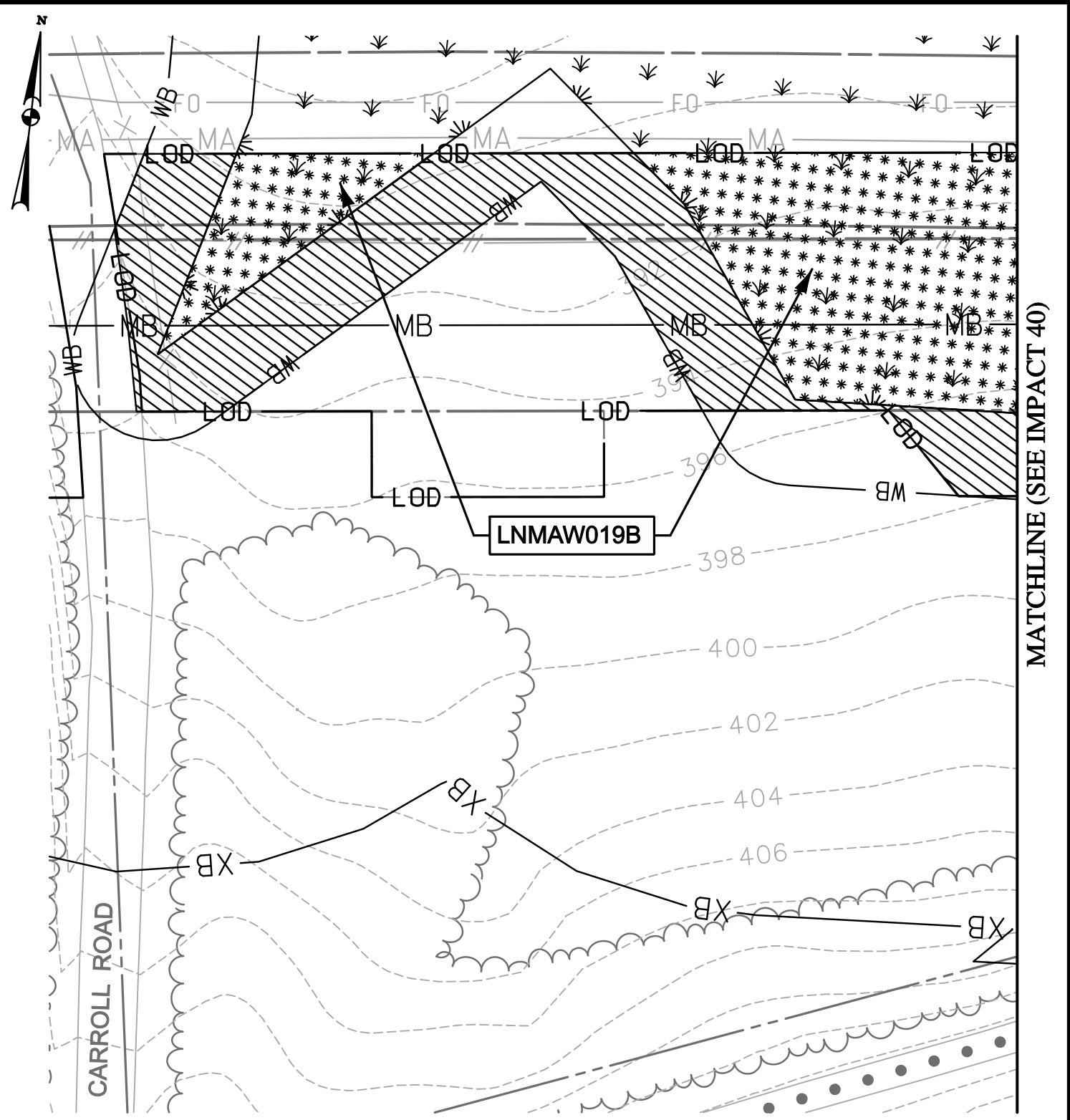
LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 38**

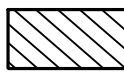
LNMAS021A; LNMAS022A

PLOTTED: 02:47 PM on Friday, July 17, 2015  
 BY: Division:  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATE\_SET\58-Plate-LINE\_MB-impact38\_OPEN.CUT.dgn

PLOTTED: 11:24:42 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\59-Plate-LINE\_MB-impact39.dgn



TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 7,955 SF./ 0.18 AC.



TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 7,312 SF./ 0.17 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 59 OF 90



**ENGINEERS**  
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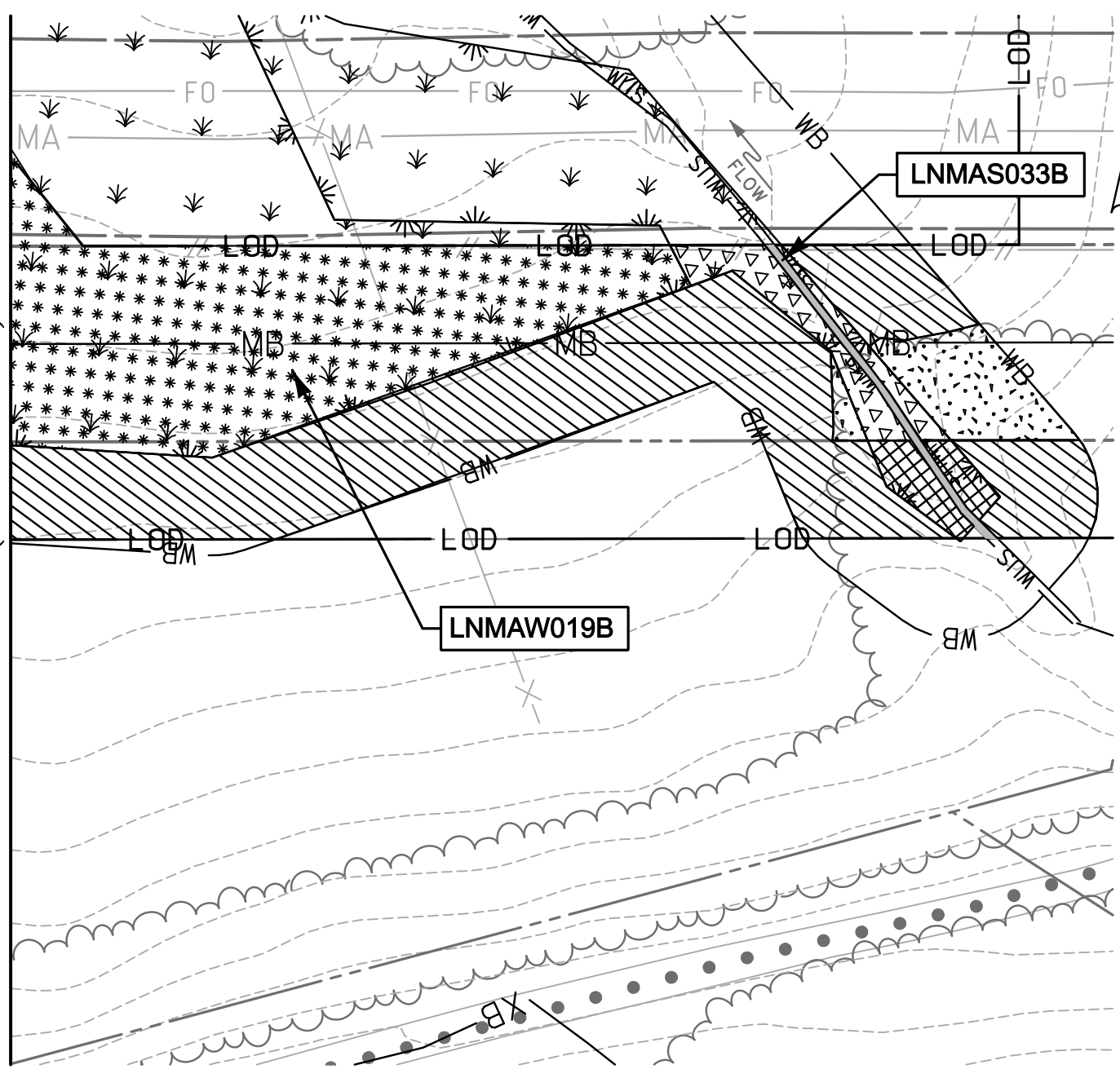
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 39**  
 LNMAW019B



MATCHLINE (SEE IMPACT 39)



- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li> TEMPORARY WATERS OF U.S. IMPACT<br/>188 SF./ 0.004 AC./ 94 LF.</li> <li> NON-TIDAL PSS WETLAND CONVERSION IMPACT<br/>761 SF./ 0.02 AC.</li> <li> TEMPORARY NON-TIDAL PSS WETLAND IMPACT<br/>443 SF./ 0.01 AC.</li> </ul> | <ul style="list-style-type: none"> <li> TEMPORARY NON-TIDAL PEM WETLAND IMPACT<br/>6,884 SF./ 0.16 AC.</li> <li> PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT<br/>822 SF./ 0.02 AC.</li> <li> TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT<br/>7,858 SF./ 0.18 AC.</li> </ul> |
|--|---|

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 60 OF 90

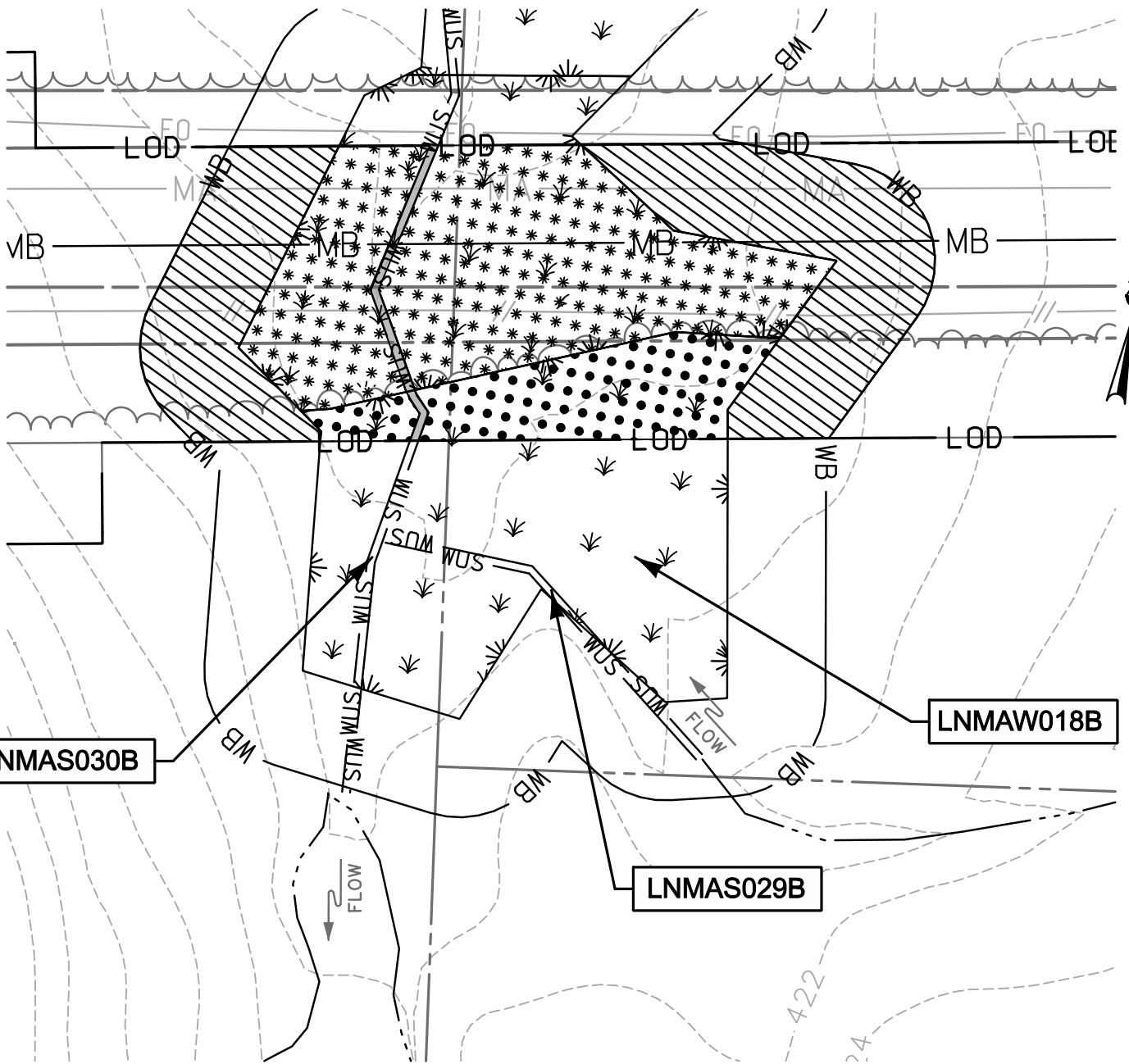
PLOTTED: '12:42 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\\_IMPACT\_PLATE\\_SET\_60-Plate-LINE\_MB-impact40.dgn


**ENGINEERS**  
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 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 40**  
 LNMAW033B; LNMAW019B




 TEMPORARY WATERS OF U.S. IMPACT  
 166 SF./ 0.004 AC./ 81 LF.


 TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
 2,043 SF./ 0.05 AC.


 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 6,209 SF./ 0.14 AC.


 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 5,304 SF./ 0.12 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 61 OF 90

PLOTTED: 11:24:42 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\IMPACT\_PLATE\_SET\61-Plate-LINE\_MB-impact41.dgn



ENGINEERS  
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 CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD  
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DATE: REVISED  
MAY 2015

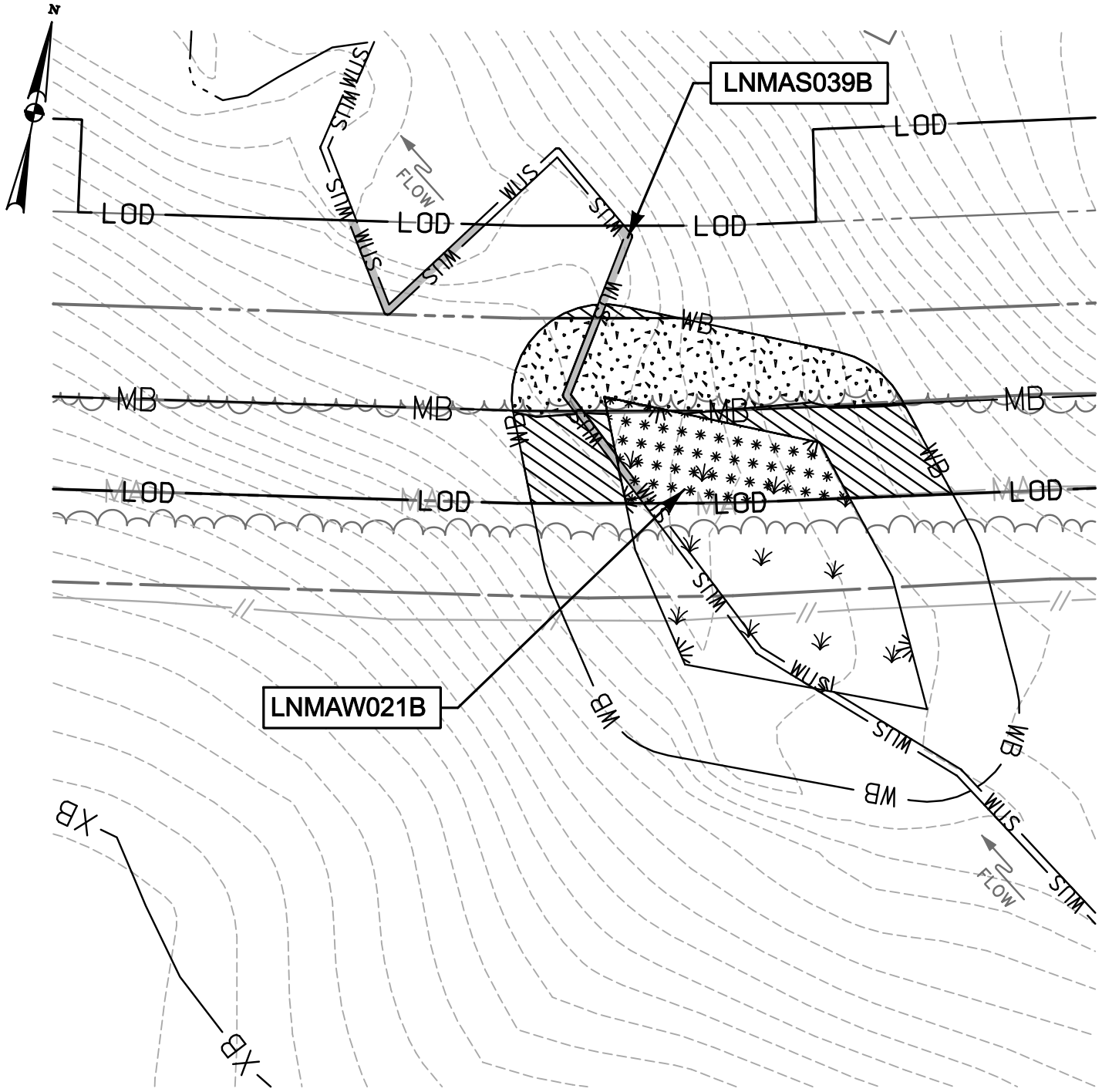
SCALE:  
1" = 40'


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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 41**

LNMA030B; LNMA029B; LNMAW018B



 TEMPORARY WATERS OF U.S. IMPACT  
293 SF./ 0.007 AC./ 147 LF.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
2,089 SF./ 0.05 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
1,253 SF./ 0.03 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,440 SF./ 0.03 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 62 OF 90

PLOTTED: "12:42 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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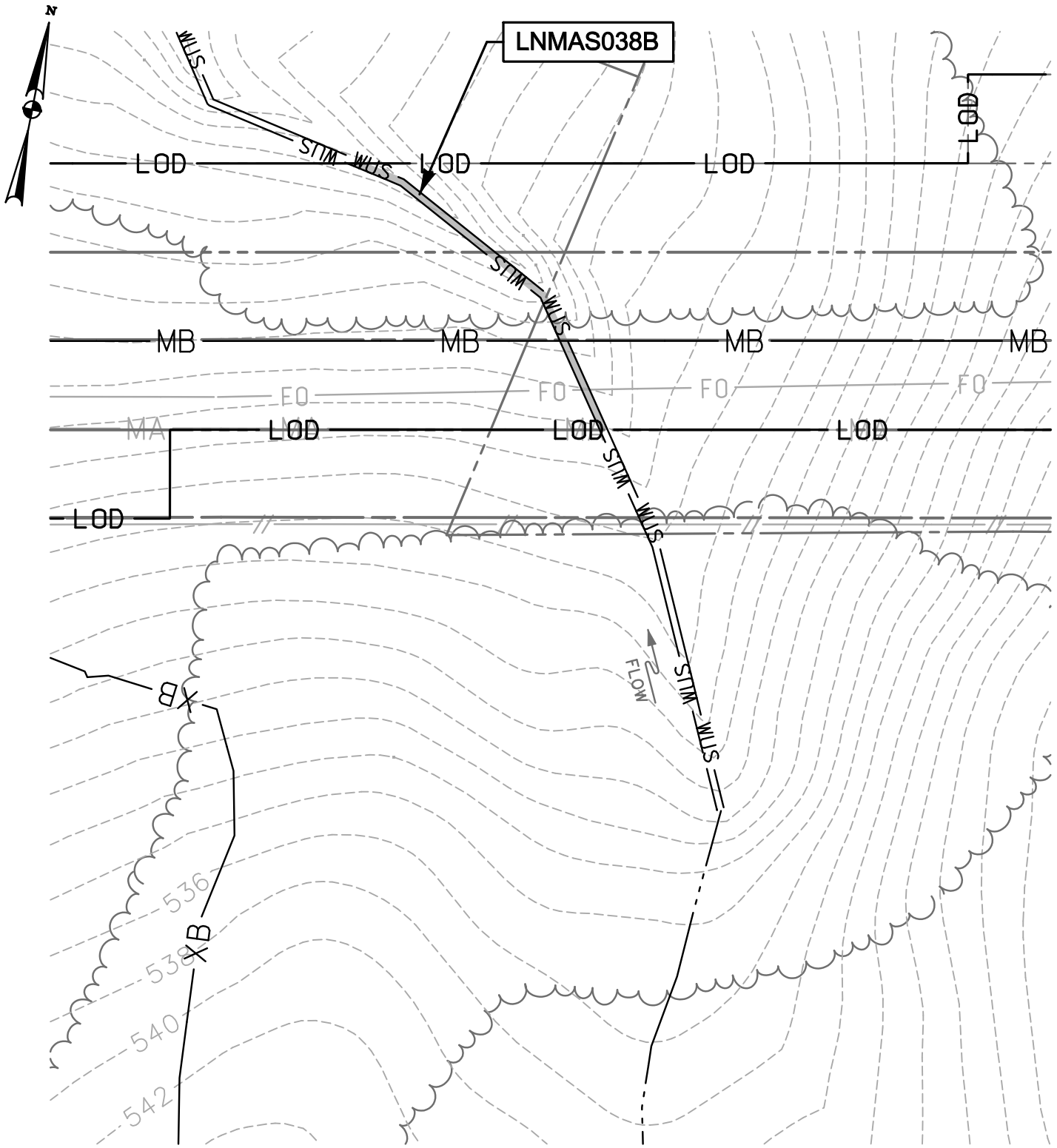
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**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**


**KCI**  
 TECHNOLOGIES

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 SCALE:  
 1" = 40'  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 42**  
 LNMA039B; LNMAW021B




 TEMPORARY WATERS  
 OF U.S. IMPACT  
 213 SF./ 0.005 AC./ 106 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 63 OF 90

PLOTTED: 11:24:42 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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SCALE:  
1" = 40'

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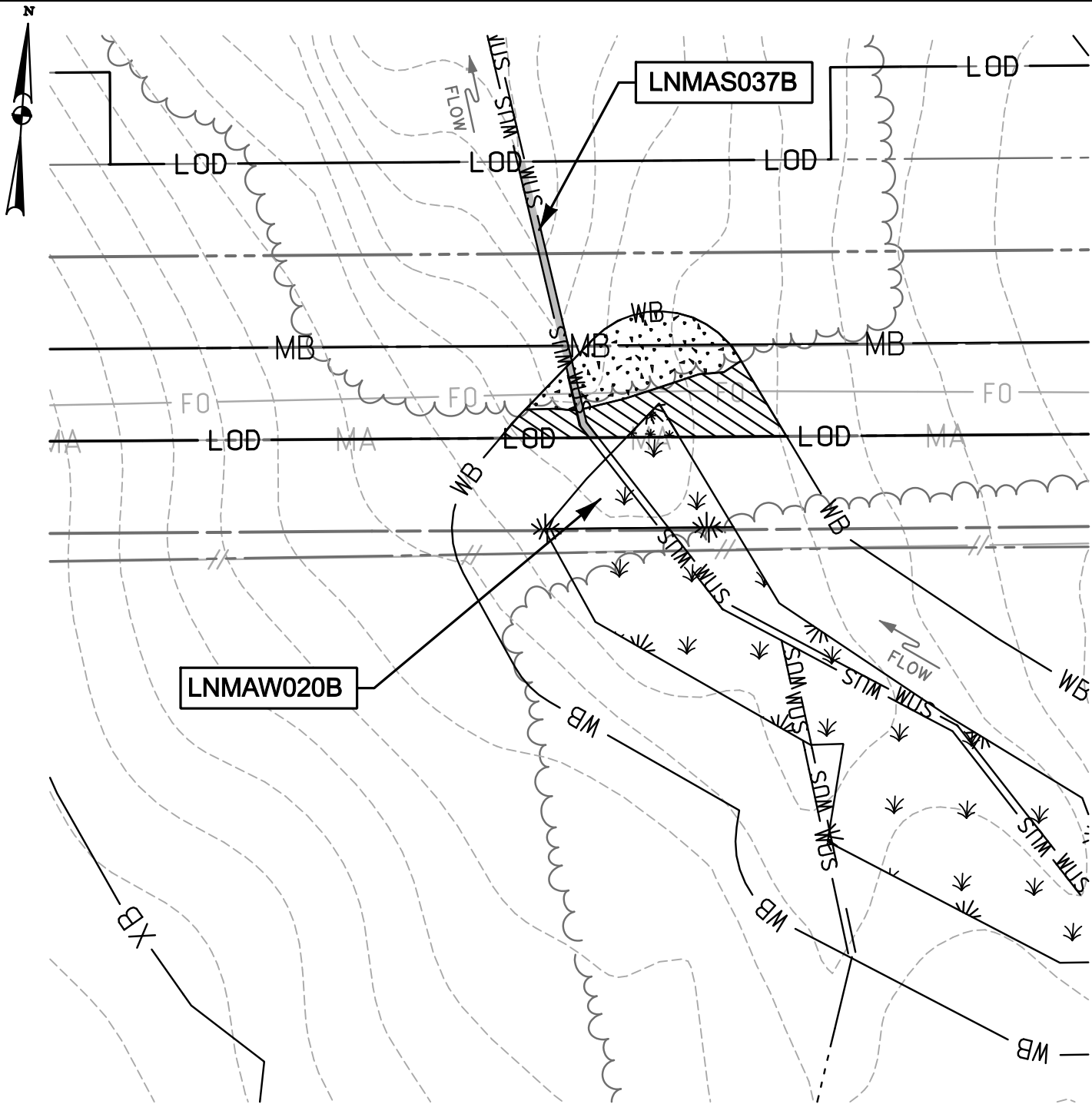
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314


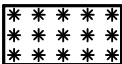
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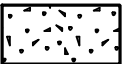

**IMPACT 43**

LNMAS038B





-  TEMPORARY WATERS OF U.S. IMPACT  
156 SF./ 0.004 AC./ 78 LF.
-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
65 SF./ 0.001 AC.

-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
823 SF./ 0.02 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
779 SF./ 0.02 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 64 OF 90

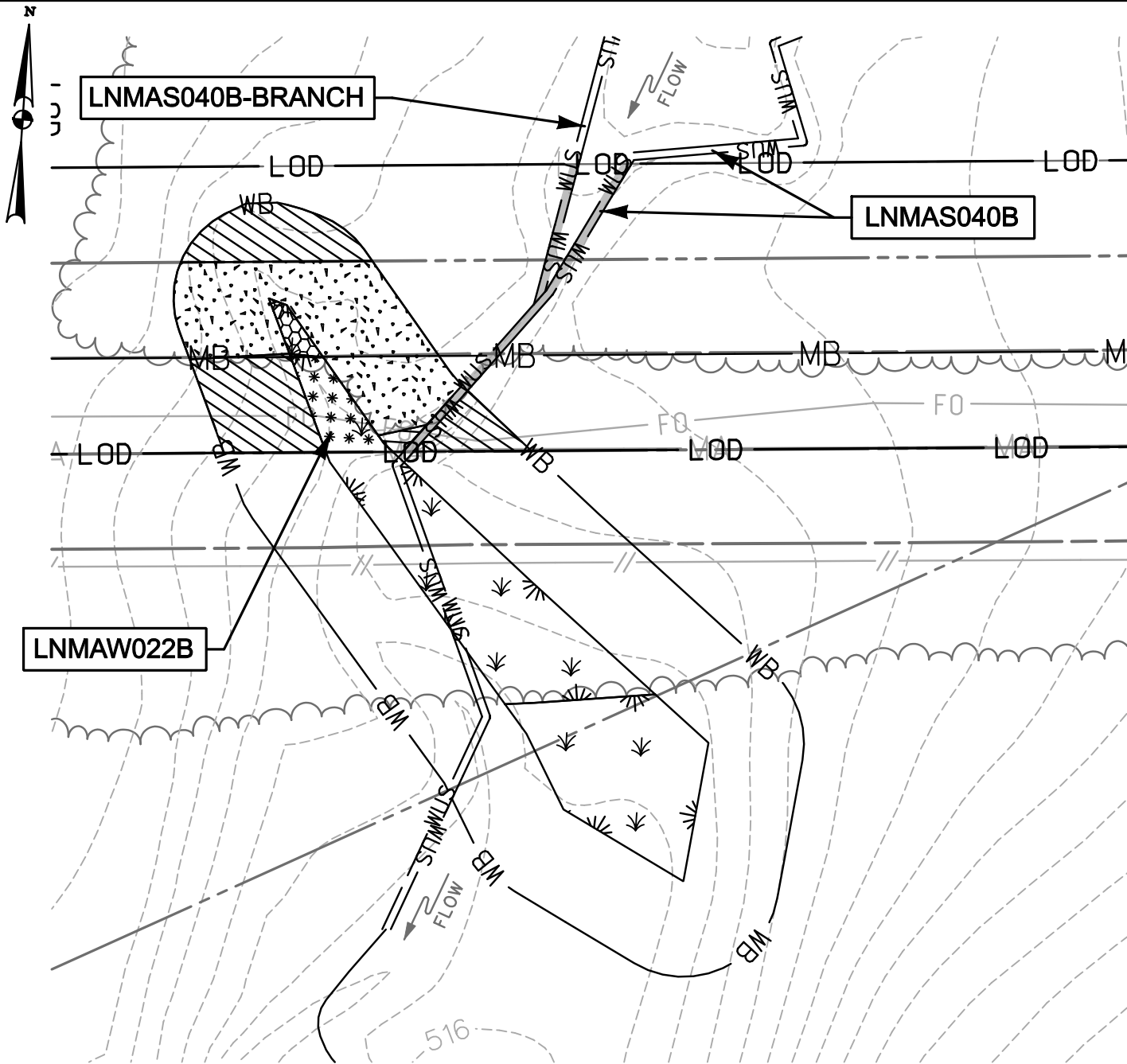
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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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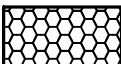
**ENGINEERS**  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 44**  
 LNMA037B; LNMAW020B



 TEMPORARY WATERS OF U.S. IMPACT  
263 SF./ 0.006 AC./ 132 LF.

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
85 SF./ 0.002 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
318 SF./ 0.007 AC.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,899 SF./ 0.04 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,493 SF./ 0.03 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 65 OF 90

PLOTTED: 11:24:43 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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MAY 2015

SCALE:  
1" = 40'

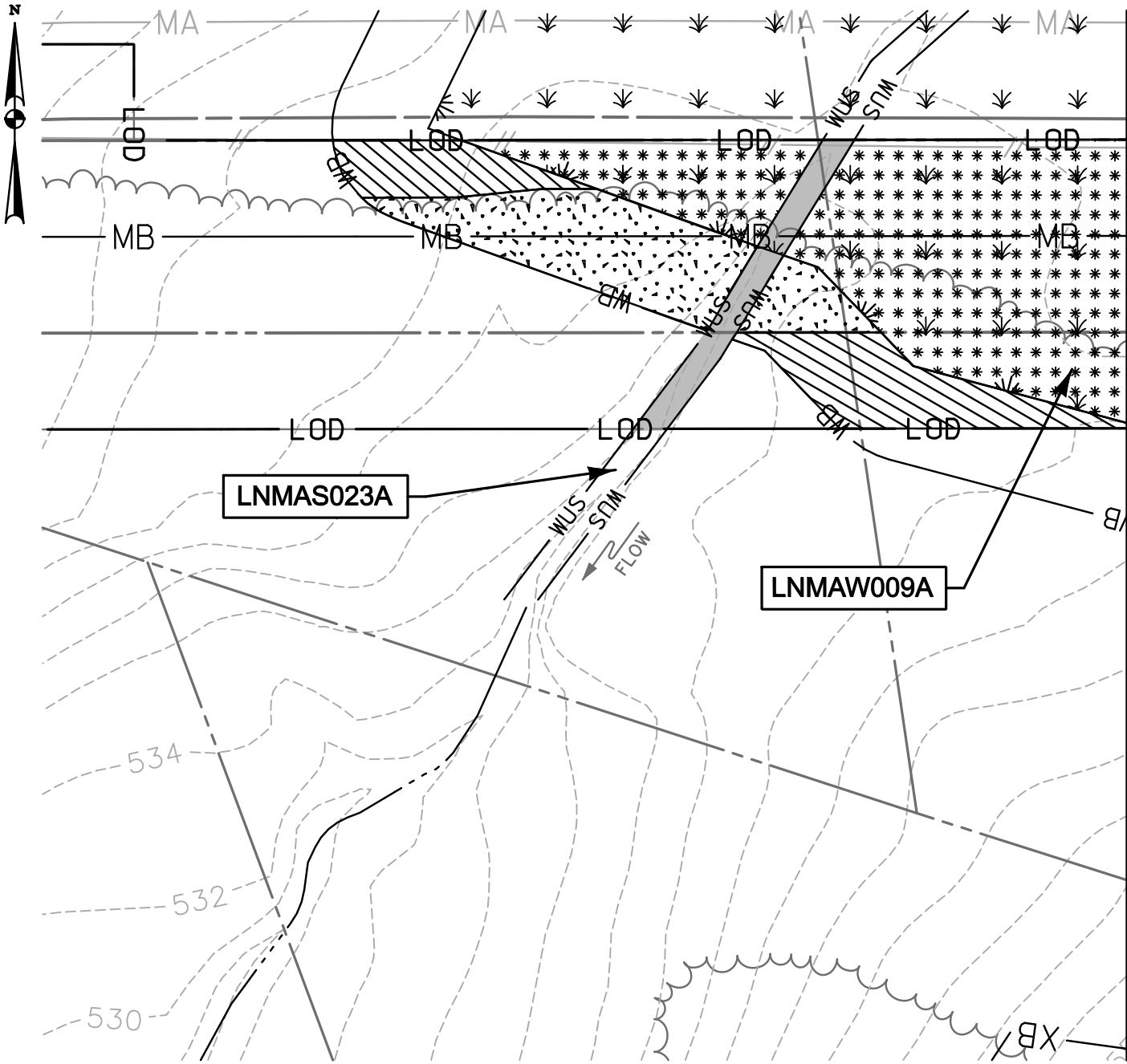
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LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 45**

LNMAW040B; LNMAW040B-BRANCH; LNMAW022B



MATCHLINE (SEE IMPACT 47)

- TEMPORARY WATERS OF U.S. IMPACT  
628 SF./ 0.01 AC./ 90 LF.
- PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
2,194 SF./ 0.05 AC.
- TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
6,123 SF./ 0.14 AC.
- TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,975 SF./ 0.05 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 66 OF 90

PLOTTED: 11:24:43 PM on Wednesday, May 27, 2015  
BY: Christopher Deibel/Division: P050 Natural Res Emp  
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DATE: REVISED  
MAY 2015

SCALE:  
1" = 40'

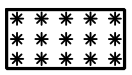
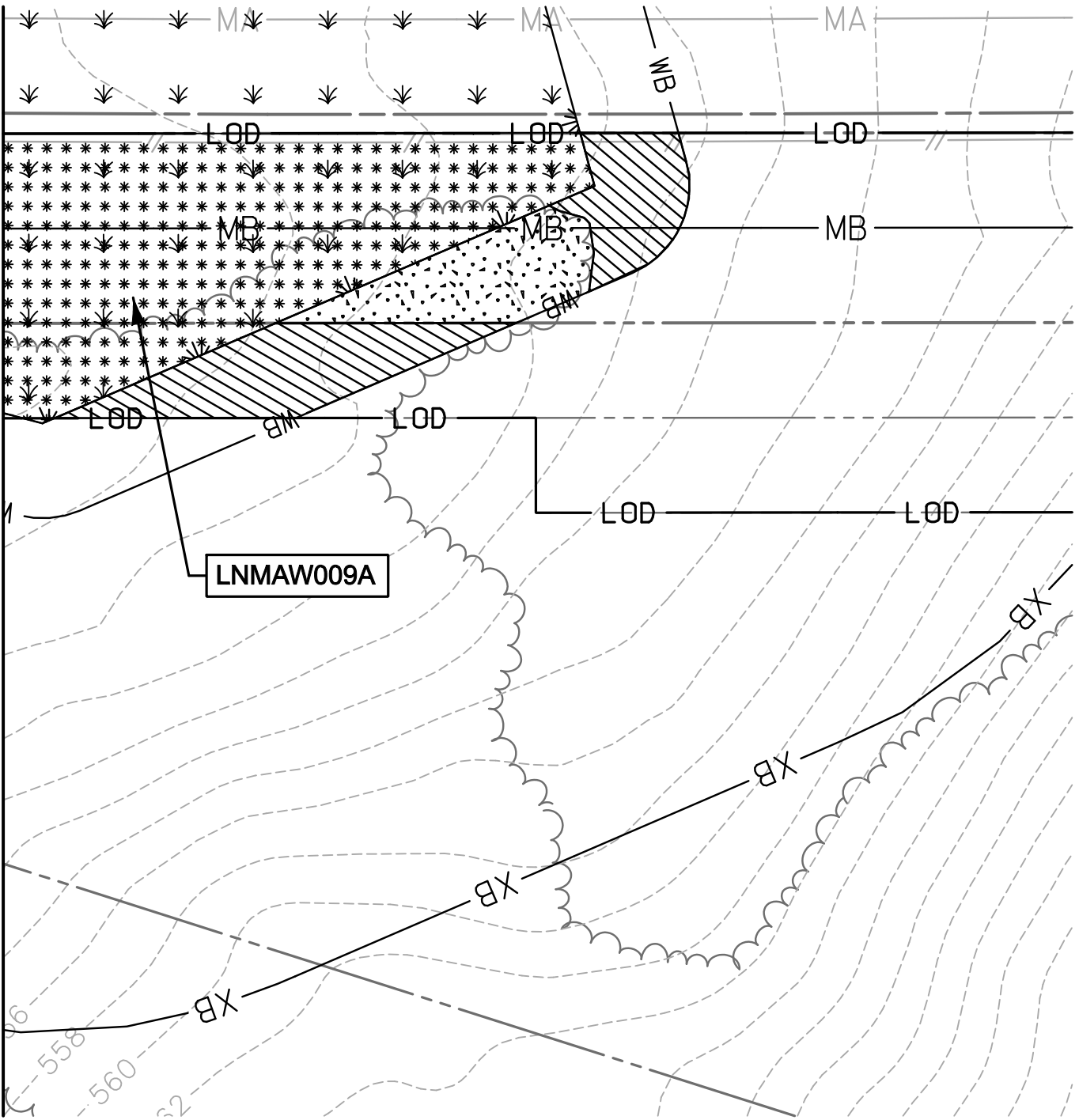
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 46**  
LNMA023A; LNMAW009A



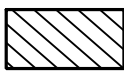
MATCHLINE (SEE IMPACT 46)



TEMPORARY NON-TIDAL  
PEM WETLAND IMPACT  
7,308 SF./ 0.17 AC.



PERMANENT 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
1,259 SF./ 0.03 AC.



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
2,612 SF./ 0.06 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 67 OF 90

PLOTTED: 11:24:3 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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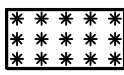
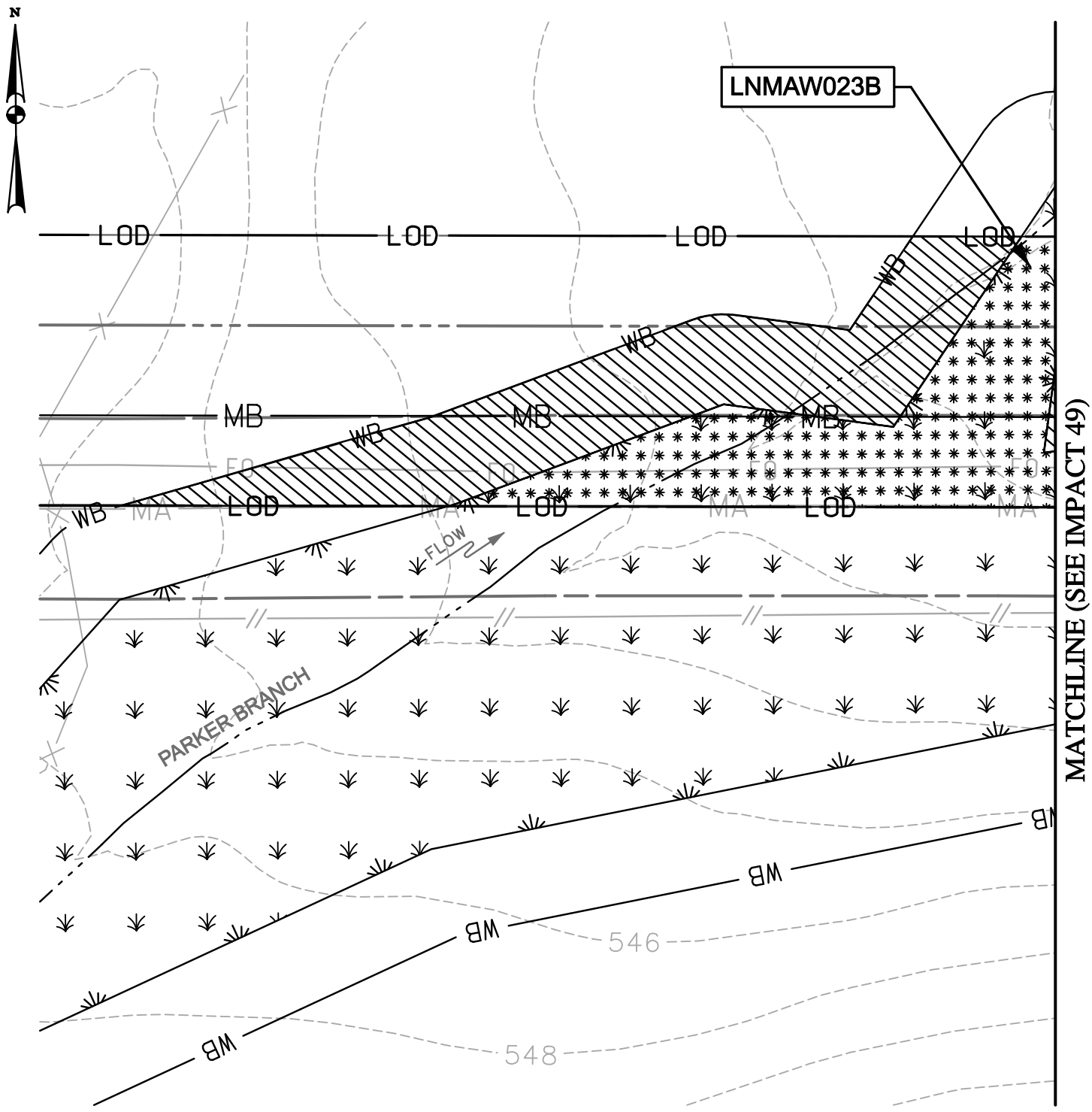


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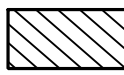
DATE: REVISED  
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 SCALE:  
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 47**  
 LNMAW009A

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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\68-Plate-LINE\_MB-impact48.dgn



TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 4,662 SF./ 0.11 AC.



TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 5,470 SF./ 0.13 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 68 OF 90

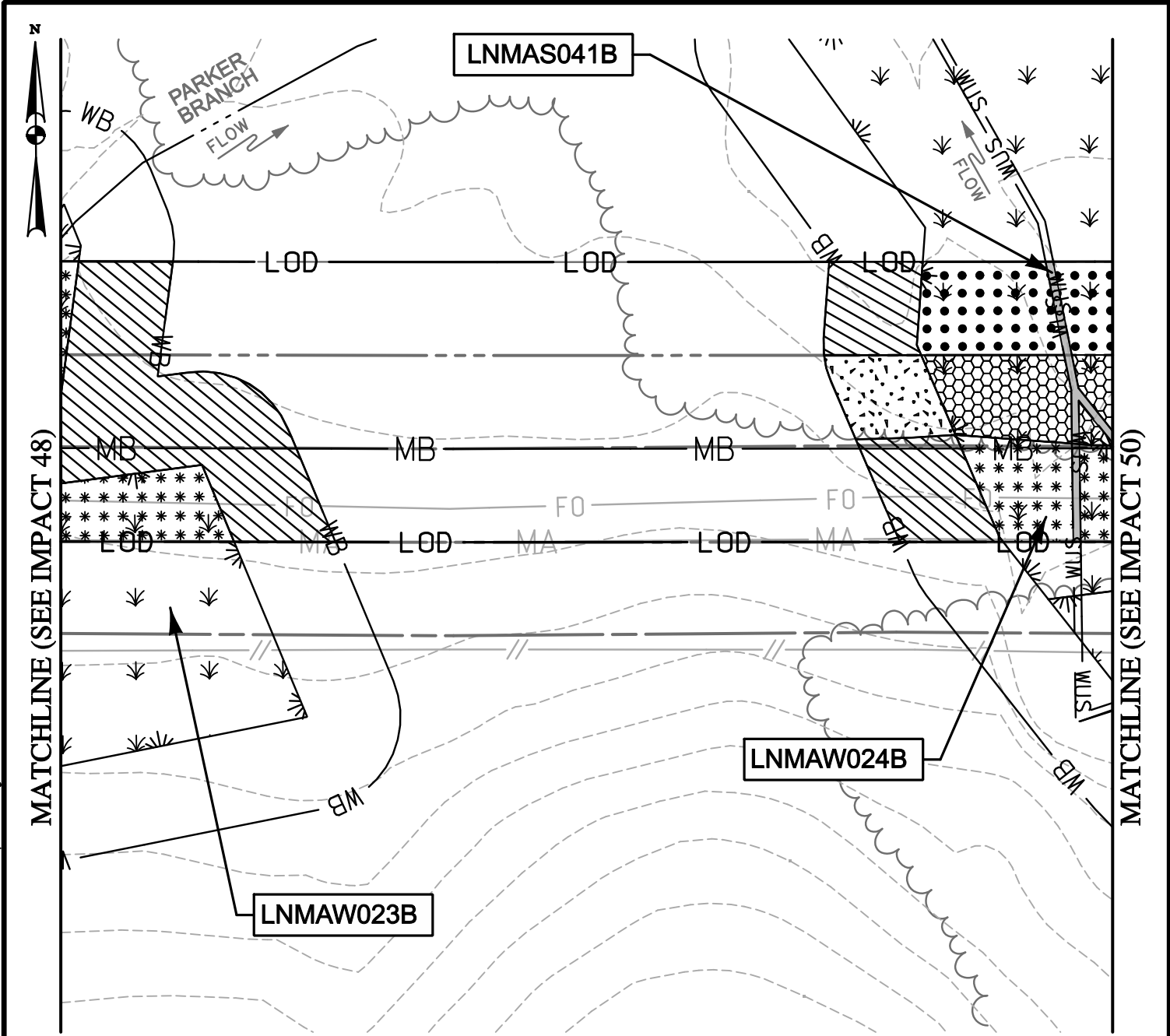



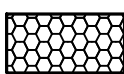

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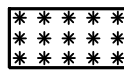


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LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 48**  
 LNMAW023B

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 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATESET\69-Plate-Line\_MB-impact49.dgn



-  TEMPORARY WATERS OF U.S. IMPACT  
 181 SF./ 0.004 AC./ 92 LF.
-  NON-TIDAL PFO WETLAND CONVERSION IMPACT  
 985 SF./ 0.02 AC.
-  TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
 1,240 SF./ 0.03 AC.

-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 1,768 SF./ 0.04 AC.
-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
 550 SF./ 0.01 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 4,264 SF./ 0.10 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 69 OF 90



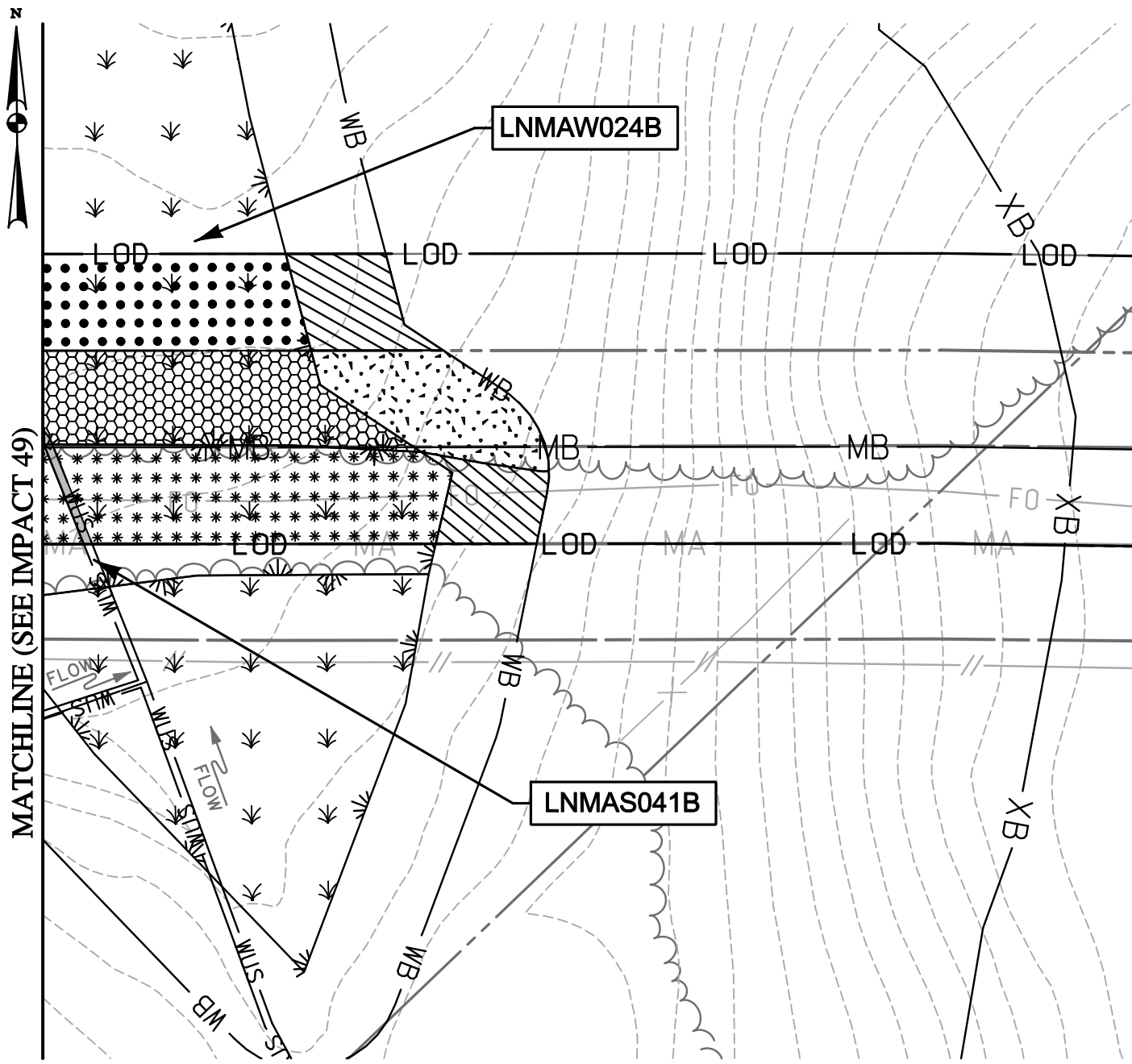
**ENGINEERS**  
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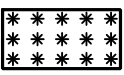
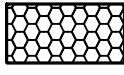
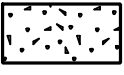

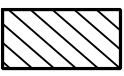
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**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 49**  
 LNMAW041B; LNMAW023B; LNMAW024B


PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Delibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATESET\70-Plate-LINE\_MB-impact50.dgn

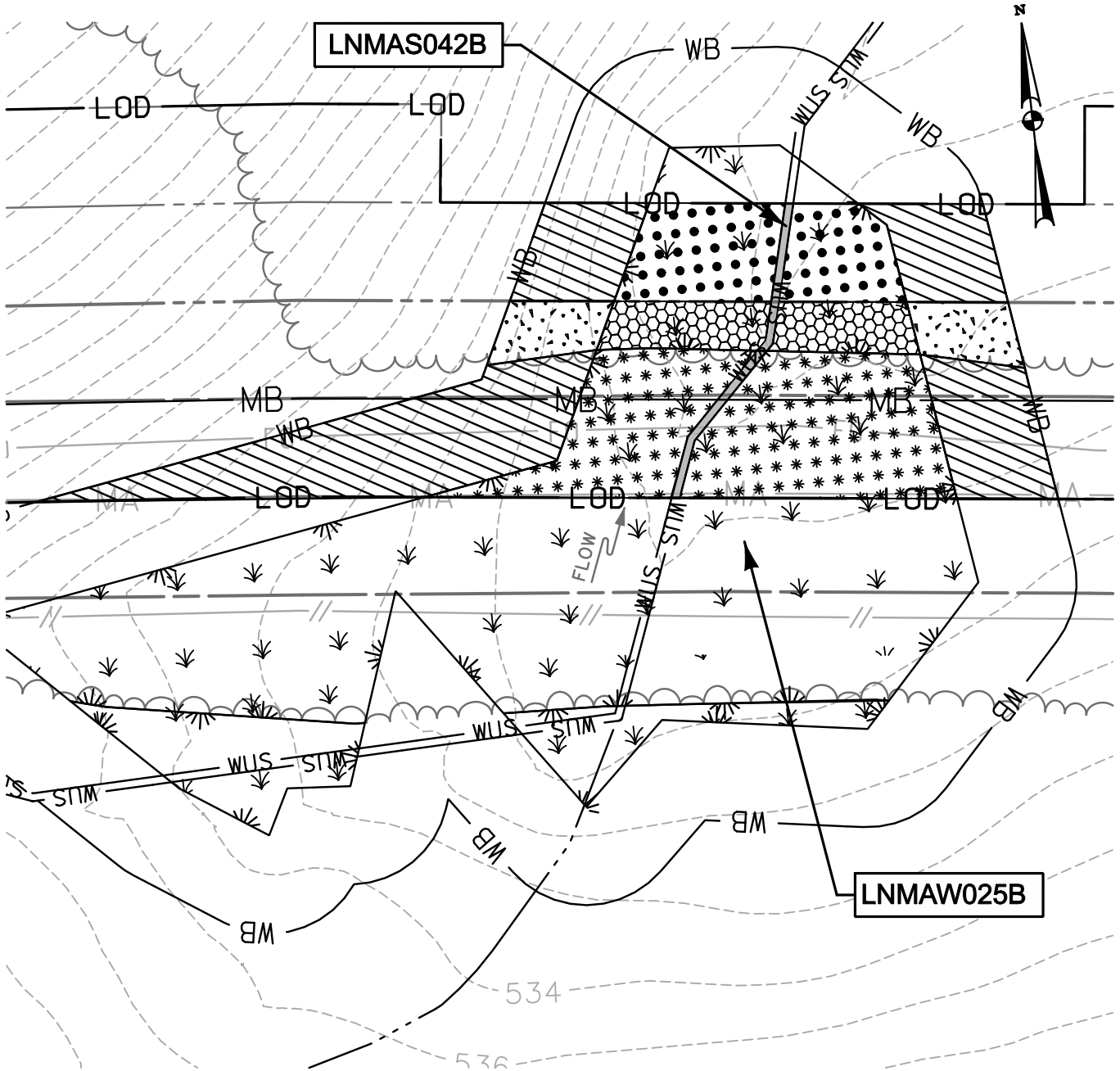



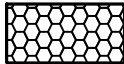

MATCHLINE (SEE IMPACT 49)




- |   |  |   |  |
|---|--|---|--|
|  | TEMPORARY WATERS OF U.S. IMPACT<br>61 SF./ 0.001 AC./ 30 LF.   |  | TEMPORARY NON-TIDAL PEM WETLAND IMPACT<br>2,552 SF./ 0.06 AC.        |
|  | NON-TIDAL PFO WETLAND CONVERSION IMPACT<br>1,944 SF./ 0.04 AC. |  | PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT<br>1,088 SF./ 0.02 AC. |
|  | TEMPORARY NON-TIDAL PFO WETLAND IMPACT<br>1,652 SF./ 0.04 AC.  |  | TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT<br>1,269 SF./ 0.03 AC. |

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS. SHEET 70 OF 90

 <p><b>KCI</b> TECHNOLOGIES</p>	<p>ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS</p>	<p>DATE: REVISED MAY 2015</p>	<p><b>LINE MB EXTENSION PROJECT</b>  <b>COLUMBIA GAS TRANSMISSION, LLC</b>          1700 MacCORKLE AVE, SE          CHARLESTON, WV 25314          MDE PERMIT #12-NT-0433/ TRACKING #201261660</p> <p><b>IMPACT 50</b>          LNMAS041B; LNMAW024B</p>	
	<p>936 RIDGEBROOK ROAD          SPARKS, MARYLAND 21152          TELEPHONE: (410) 316-7800          FAX: (410) 316-7818</p>	<p>SCALE: 1" = 40'</p>		<p>DRAWN BY: CSD</p>
	<p>936 RIDGEBROOK ROAD          SPARKS, MARYLAND 21152          TELEPHONE: (410) 316-7800          FAX: (410) 316-7818</p>	<p>DRAWN BY: CSD</p>		<p>DRAWN BY: CSD</p>



-  TEMPORARY WATERS OF U.S. IMPACT  
166 SF./ 0.004 AC./ 83 LF.
-  NON-TIDAL PFO WETLAND CONVERSION IMPACT  
955 SF./ 0.02 AC.
-  TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
1,602 SF./ 0.04 AC.

-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
3,562 SF./ 0.08 AC.
-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
769 SF./ 0.02 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
4,535 SF./ 0.10 AC.

SHEET 71 OF 90

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**ENGINEERS  
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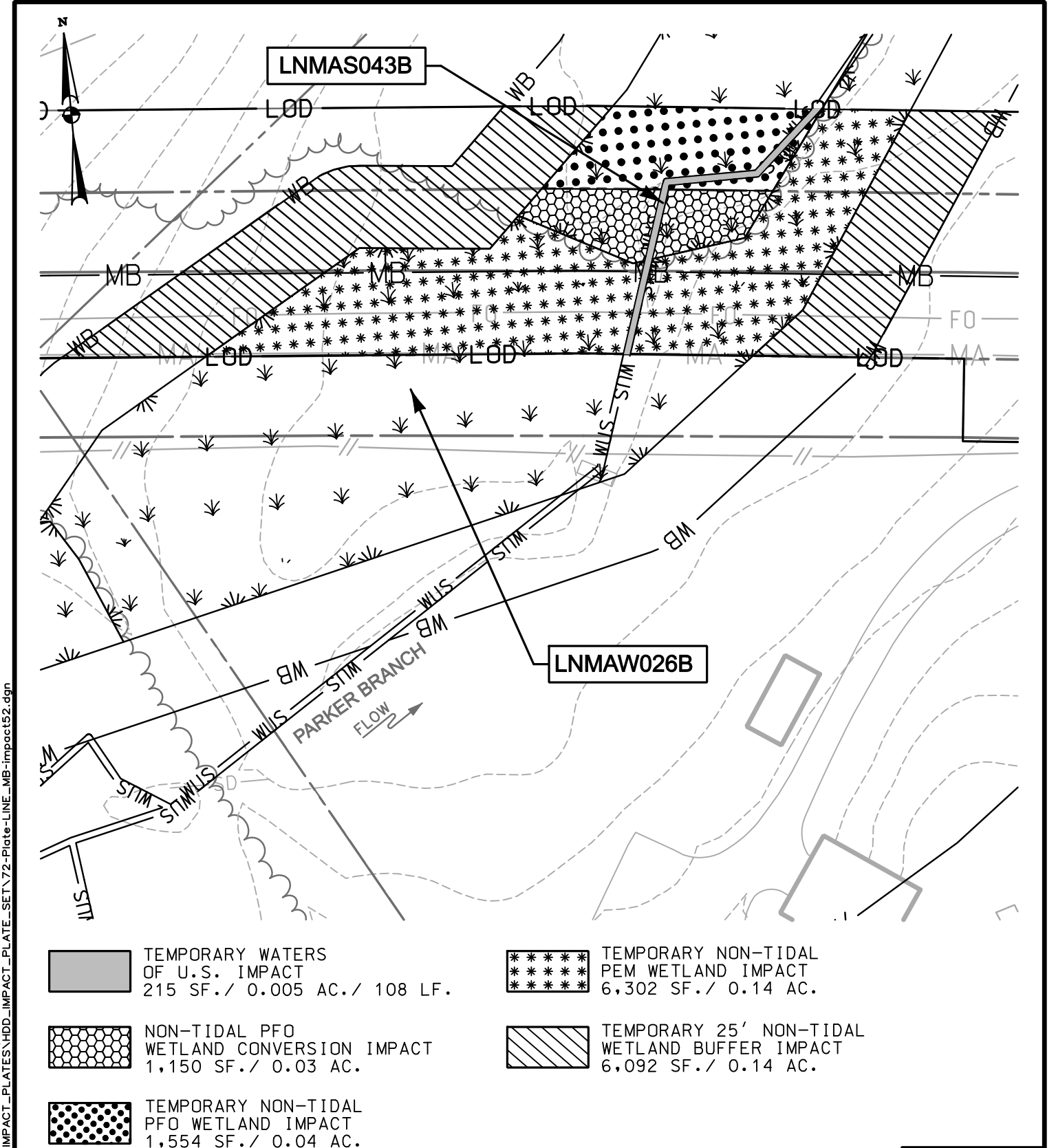
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SCALE:  
1" = 40'

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CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 51**  
 LNMAW042B; LNMAW025B





- TEMPORARY WATERS OF U.S. IMPACT  
215 SF./ 0.005 AC./ 108 LF.
- NON-TIDAL PFO WETLAND CONVERSION IMPACT  
1,150 SF./ 0.03 AC.
- TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
1,554 SF./ 0.04 AC.
- TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
6,302 SF./ 0.14 AC.
- TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
6,092 SF./ 0.14 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 72 OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
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 FILE: M:\2012\16121849-drawings\IMPACT\_PLATES\HDD\IMPACT\_PLATE\_SET\72-Plate-LINE\_MB-impact52.dgn

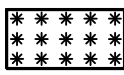
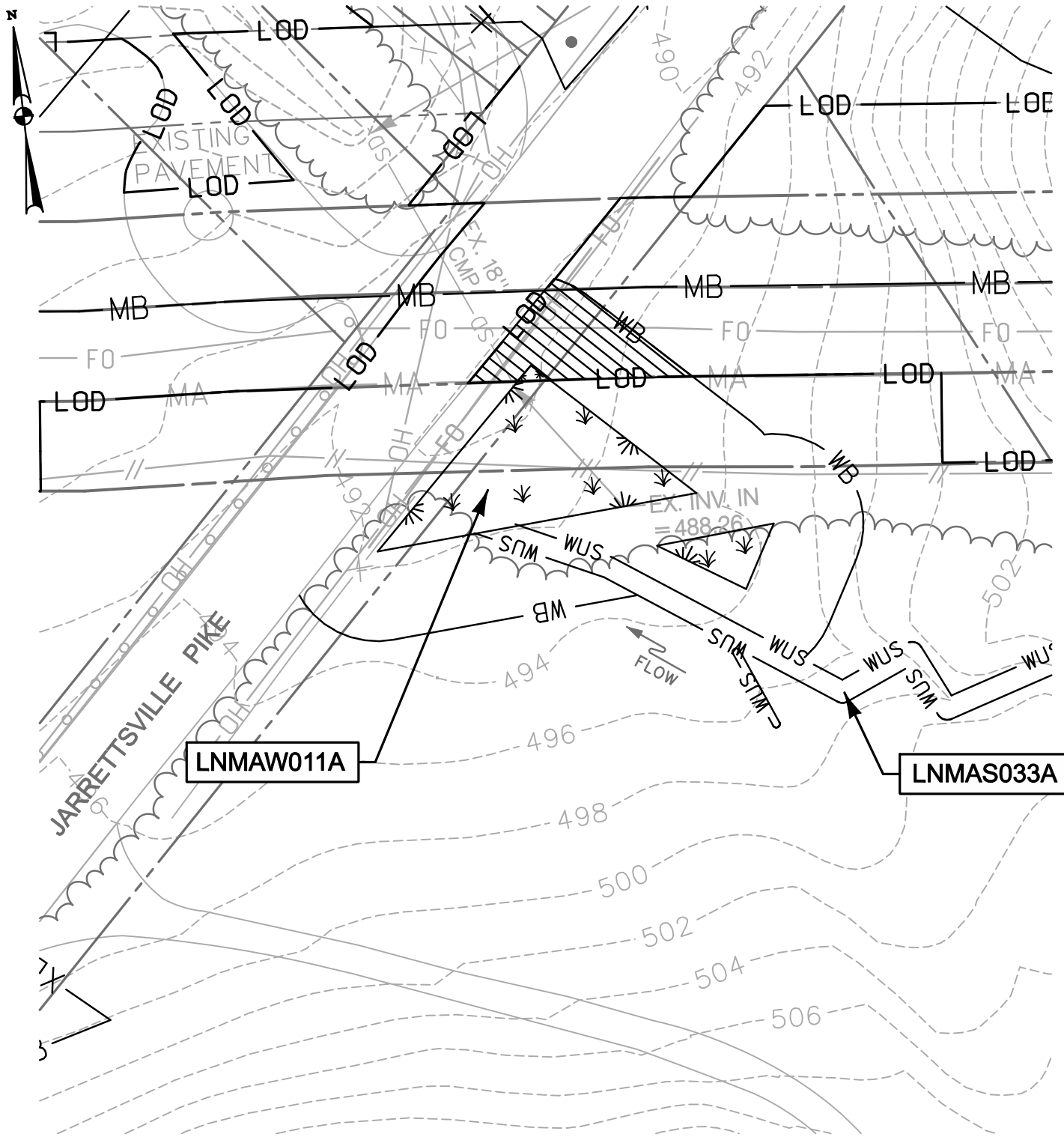


**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
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 FAX: (410) 316-7818

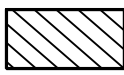
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 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 52**  
 LNMA043B; LNMAW026B

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849-drawings\IMPACT\_PLATE.SET\73-Plate-LINE\_MB-impact53.dgn



TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 20 SF./ 0.0005 AC.



TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 868 SF./ 0.02 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 73 OF 90



ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015

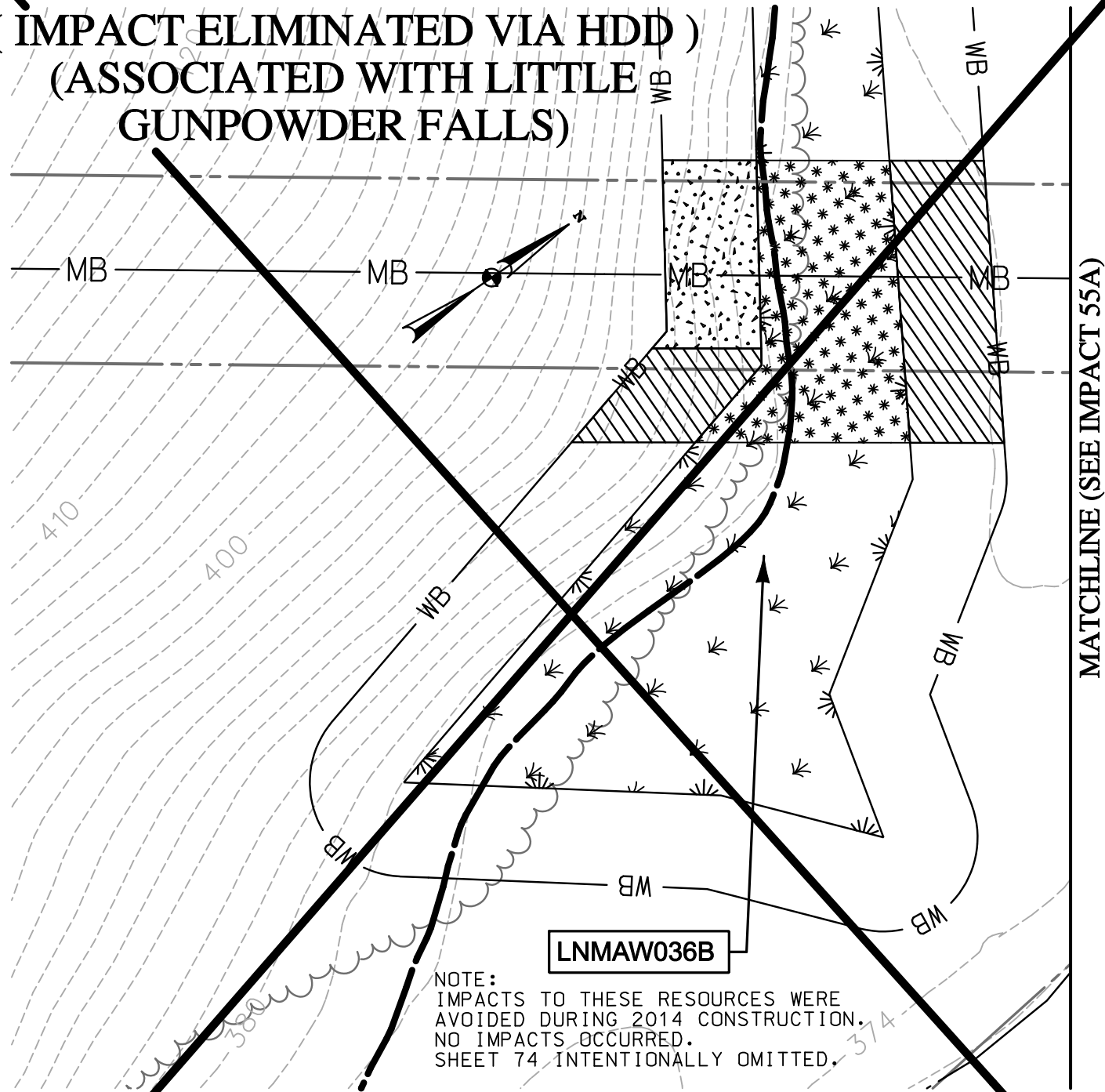
SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660

**IMPACT 53**  
 LNMAW011A; LNMAAS033A

# IMPACT 54 - HDD (IMPACT ELIMINATED VIA HDD) (ASSOCIATED WITH LITTLE GUNPOWDER FALLS)



LNMAW036B

NOTE:  
IMPACTS TO THESE RESOURCES WERE  
AVOIDED DURING 2014 CONSTRUCTION.  
NO IMPACTS OCCURRED.  
SHEET 74 INTENTIONALLY OMITTED.



TEMPORARY NON-TIDAL  
PEM WETLAND IMPACT  
2,974 SF./ 0.07 AC.



PERMANENT 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
1,453 SF./ 0.03 AC.



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
2,500 SF./ 0.06 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 75 OF 90

PLOTTED: 02:05 PM on Thursday, July 23, 2015  
BY: Division  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\76-Plate-Line\_MB-impact54.dgn



ENGINEERS  
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CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD  
SPARKS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

DATE: REVISED  
JULY 2015

SCALE:  
1" = 40'

DRAWN BY:  
CSD

LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

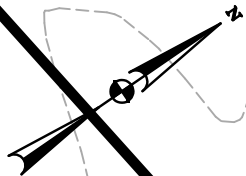
MDE PERMIT #12-NT-0433/ TRACKING #201261660

IMPACT 54 - HDD

LNMAW036B

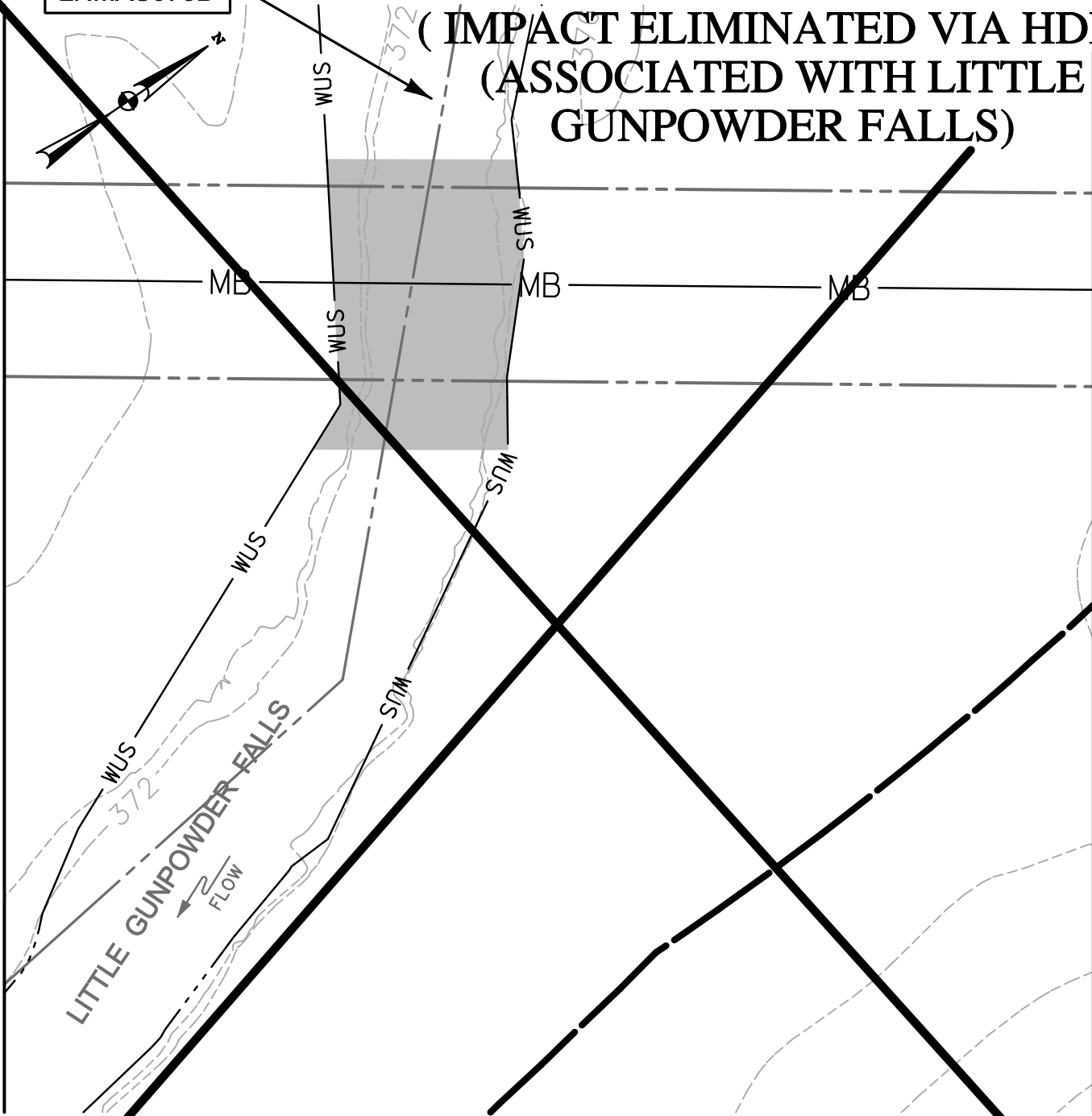
# IMPACT 55A - HDD ( IMPACT ELIMINATED VIA HDD ) ( ASSOCIATED WITH LITTLE GUNPOWDER FALLS )

LNMAS075B



MATCHLINE (SEE IMPACT 55)

MATCHLINE (SEE IMPACT 55B)



LITTLE GUNPOWDER FALLS  
FLOW

NOTE:  
IMPACTS TO THESE RESOURCES WERE  
AVOIDED DURING 2014 CONSTRUCTION.  
NO IMPACTS OCCURRED.  
SHEET 76 INTENTIONALLY OMITTED.

TEMPORARY WATERS  
OF U.S. IMPACT  
3,547 SF./ 0.08 AC./ 77 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 77 OF 90

PLOTTED: 02:05 PM on Thursday, July 23, 2015  
BY: Division  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\77-Plate-LINE\_MB-impact55-A.dgn

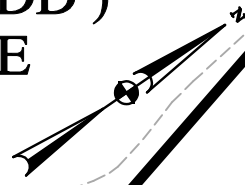


ENGINEERS  
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SPARKS, MARYLAND 21152  
TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

DATE: REVISED  
JULY 2015  
SCALE:  
1" = 40'  
DRAWN BY:  
CSD

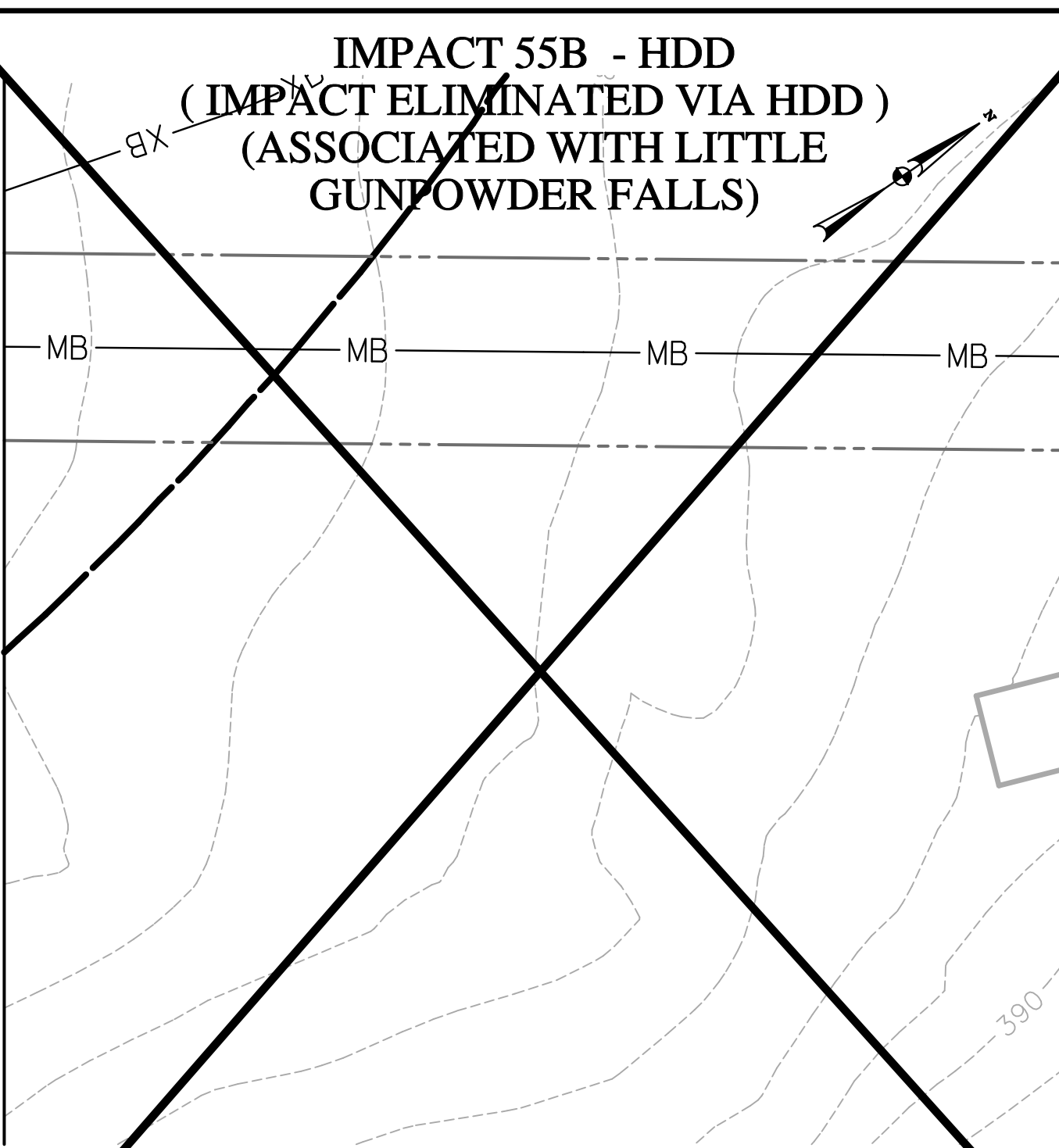
LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 55A - HDD**  
LNMAS075B

# IMPACT 55B - HDD ( IMPACT ELIMINATED VIA HDD ) ( ASSOCIATED WITH LITTLE GUNPOWDER FALLS )



MATCHLINE (SEE IMPACT 55A)

MB MB MB MB



NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.

NOTE:  
IMPACTS TO THESE RESOURCES WERE  
AVOIDED DURING 2014 CONSTRUCTION.  
NO IMPACTS OCCURRED.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 78 OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
BY: Christopher Deibel\Division: P050 Natural Res Emp  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\78-Plate-LINE\_MB-impact55-B.dgn



*ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS*

936 RIDGEBROOK ROAD  
SPARKS, MARYLAND 21152  
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FAX: (410) 316-7818

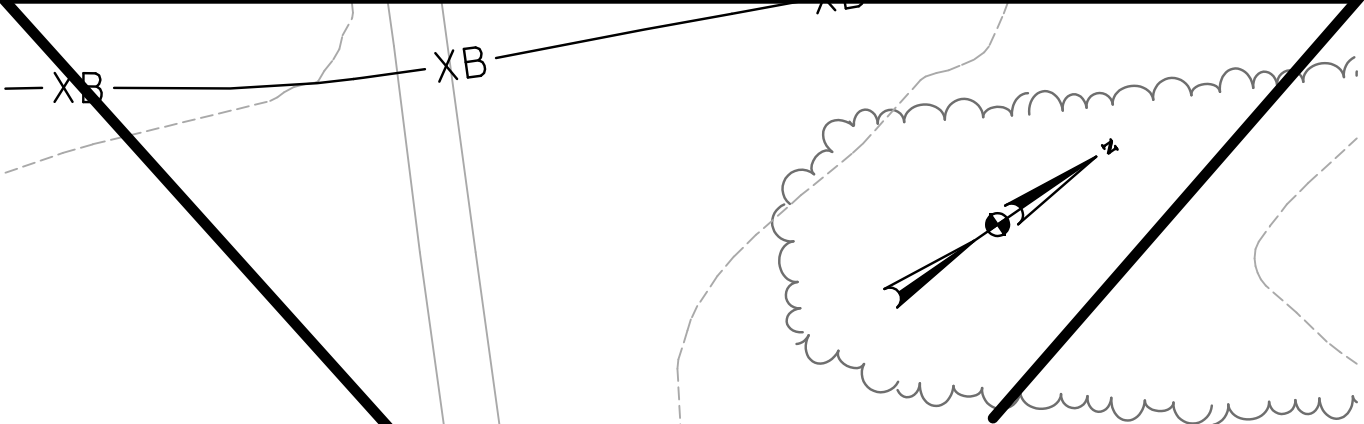
DATE: REVISED  
MAY 2015

SCALE:  
1" = 40'

DRAWN BY:  
CSD

**LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660  
IMPACT 55B - HDD**

MATCHLINE (SEE IMPACT 55D)



**IMPACT 55C - HDD  
( IMPACT ELIMINATED VIA HDD )  
( ASSOCIATED WITH LITTLE  
GUNPOWDER FALLS )**

NOTE:  
IMPACTS TO THESE RESOURCES WERE  
AVOIDED DURING 2014 CONSTRUCTION.  
NO IMPACTS OCCURRED.

NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.  
FLOODPLAIN IMPACT THIS SHEET: 7,408 SF. / 0.17 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 78A OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
BY: Christopher Deibel/Division: P050 Natural Res Emp  
FILE: M:\2012\16121849.drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\78A-Plate-LINE\_MB-impact55-C.dgn

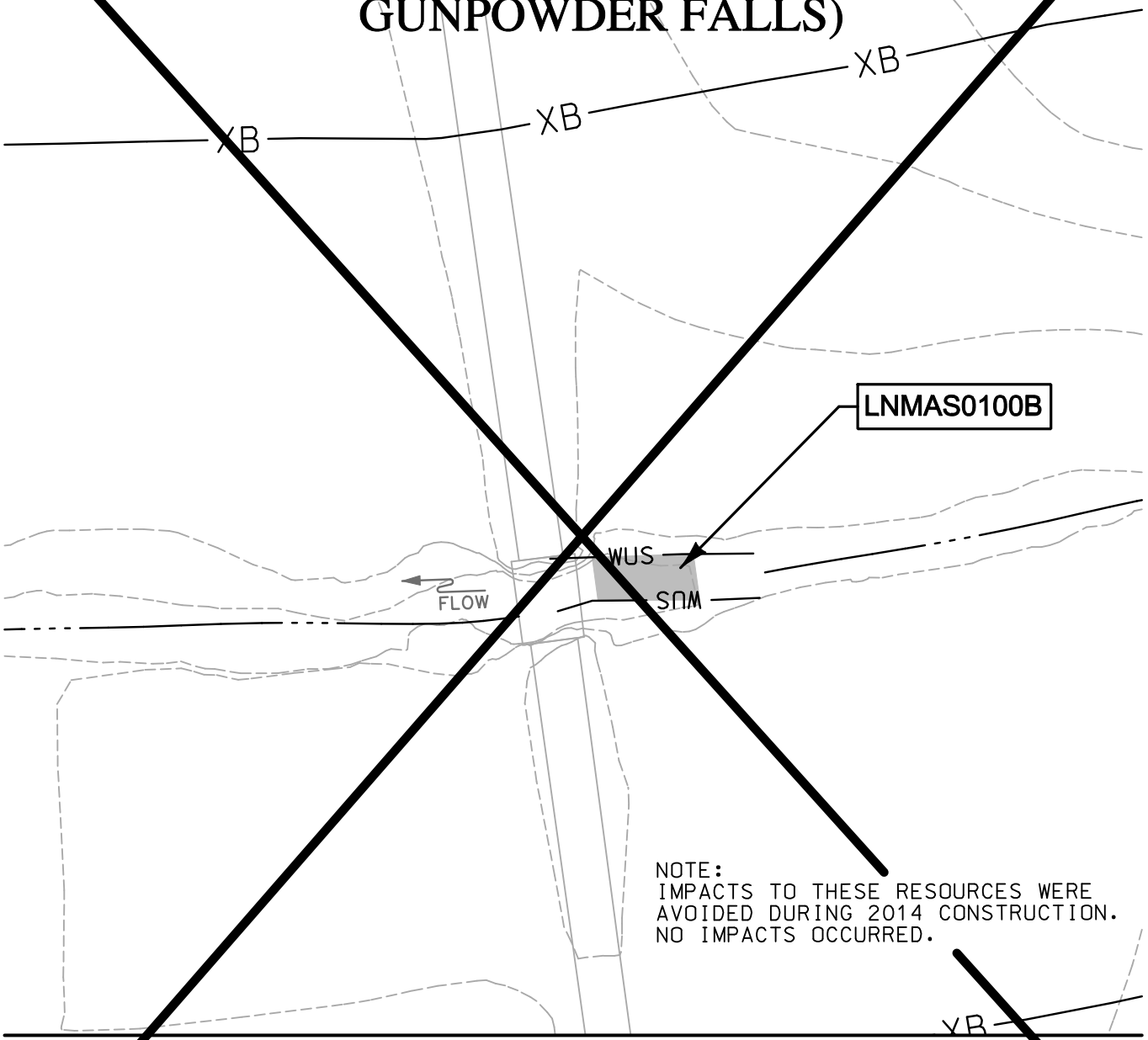


*ENGINEERS  
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SCIENTISTS  
CONSTRUCTION MANAGERS*  
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TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

DATE: REVISED  
MAY 2015  
SCALE:  
1" = 40'  
DRAWN BY:  
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**LINE MB EXTENSION PROJECT  
COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314  
MDE PERMIT #12-NT-0433/ TRACKING #201261660  
IMPACT 55C - HDD**

# IMPACT 55D - HDD ( IMPACT ELIMINATED VIA HDD ) ( ASSOCIATED WITH LITTLE GUNPOWDER FALLS )



NOTE:  
IMPACTS TO THESE RESOURCES WERE  
AVOIDED DURING 2014 CONSTRUCTION.  
NO IMPACTS OCCURRED.

MATCHLINE (SEE IMPACT 55C)

TEMPORARY WATERS  
OF U.S. IMPACT  
280 SF. / 0.006 AC. / 25 LF.

FLOODPLAIN IMPACT THIS  
SHEET: 7,210 SF. / 0.17 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 78B OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\78B-Plate-LINE\_MB-impact55-D.dgn

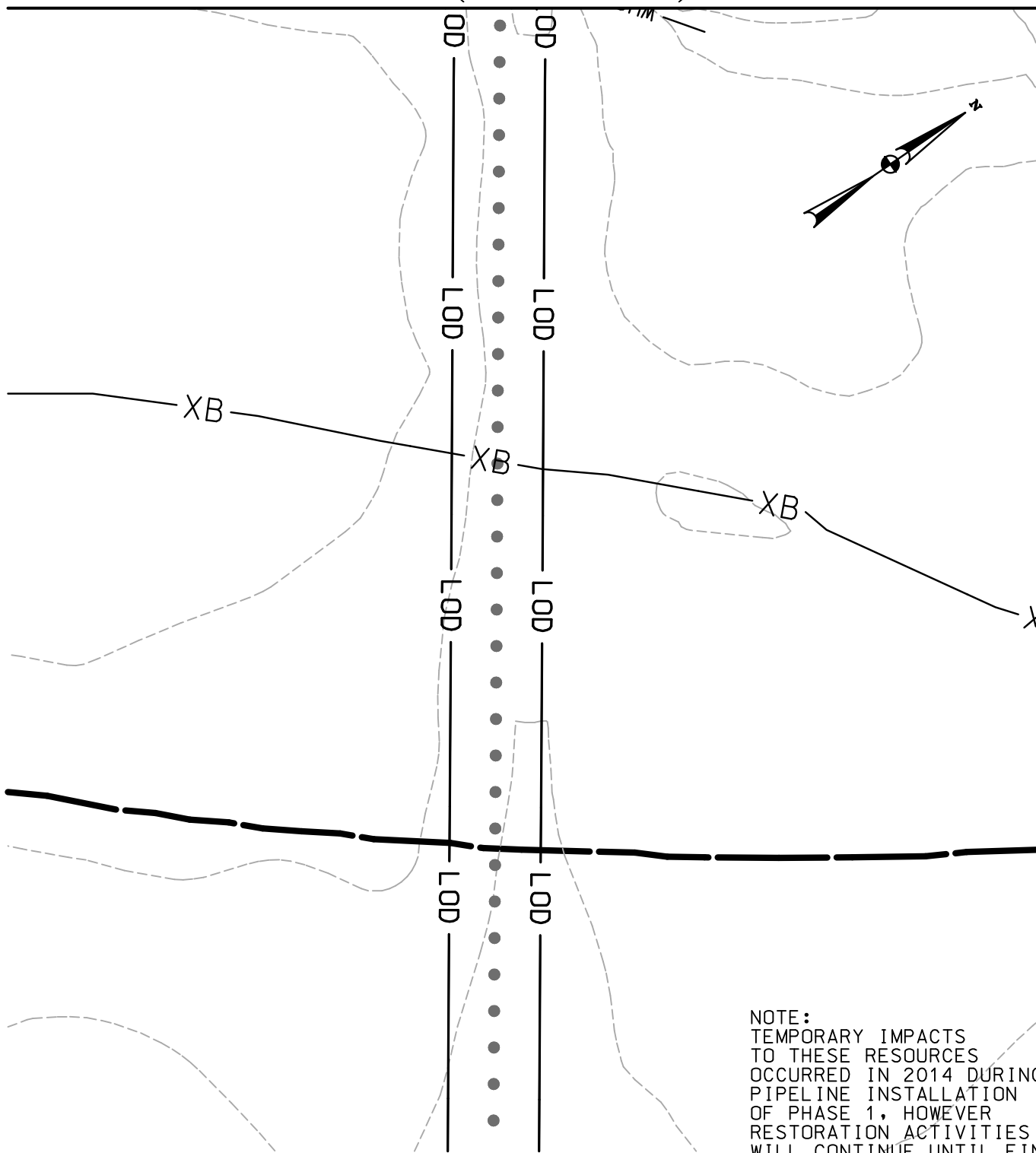


**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 55D - HDD**

MATCHLINE (SEE IMPACT 55F)



NOTE:  
 TEMPORARY IMPACTS  
 TO THESE RESOURCES  
 OCCURRED IN 2014 DURING  
 PIPELINE INSTALLATION  
 OF PHASE 1, HOWEVER  
 RESTORATION ACTIVITIES  
 WILL CONTINUE UNTIL FINAL  
 RESTORATION IS ACHIEVED.

NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.  
 FLOODPLAIN IMPACT THIS SHEET: 5,736 SF. / 0.13 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 78C OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\78C-Plate-LINE\_MB-impact55-E.dgn



ENGINEERS  
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 SCIENTISTS  
 CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
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 FAX: (410) 316-7818

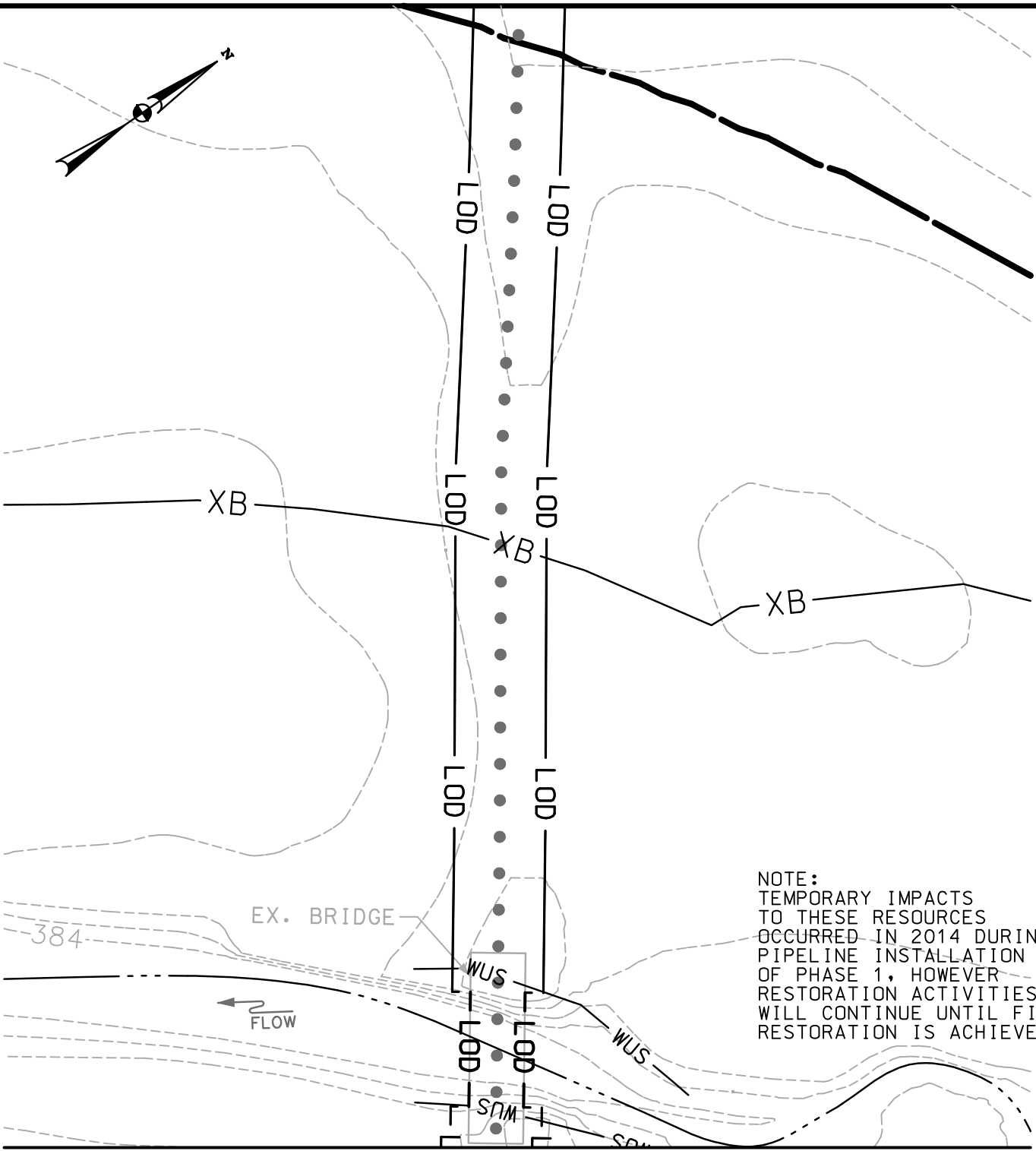
DATE: REVISED  
 MAY 2015

SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

LINE MB EXTENSION PROJECT  
 COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 55E**





NOTE:  
 TEMPORARY IMPACTS  
 TO THESE RESOURCES  
 OCCURRED IN 2014 DURING  
 PIPELINE INSTALLATION  
 OF PHASE 1, HOWEVER  
 RESTORATION ACTIVITIES  
 WILL CONTINUE UNTIL FINAL  
 RESTORATION IS ACHIEVED.

MATCHLINE (SEE IMPACT 55E)

NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.  
 FLOODPLAIN IMPACT THIS SHEET: 7,272 SF. / 0.17 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 780 OF 90

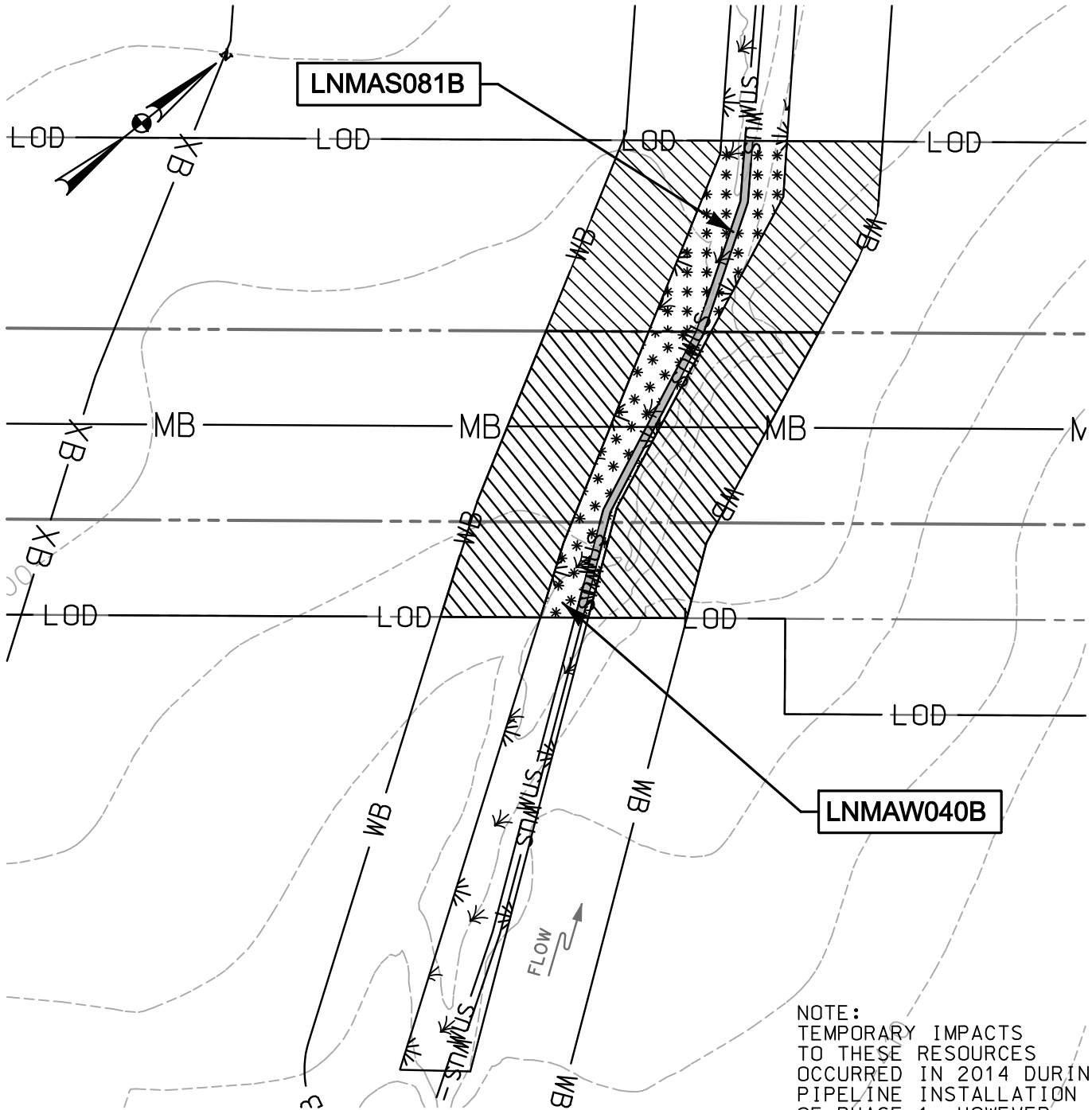
PLOTTED: 11:24:43 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.drawing\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\780D-Plate-LINE\_MB-impact55-F.dgn



**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818


DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 55F**



**LNMAW040B**

**LNMAW081B**

 TEMPORARY WATERS OF U.S. IMPACT  
269 SF./ 0.006 AC. / 134 LF.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
1,617 SF./ 0.04 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
6,761 SF./ 0.16 AC.

NOTE:  
TEMPORARY IMPACTS TO THESE RESOURCES OCCURRED IN 2014 DURING PIPELINE INSTALLATION OF PHASE 1, HOWEVER RESTORATION ACTIVITIES WILL CONTINUE UNTIL FINAL RESTORATION IS ACHIEVED.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 79 OF 90

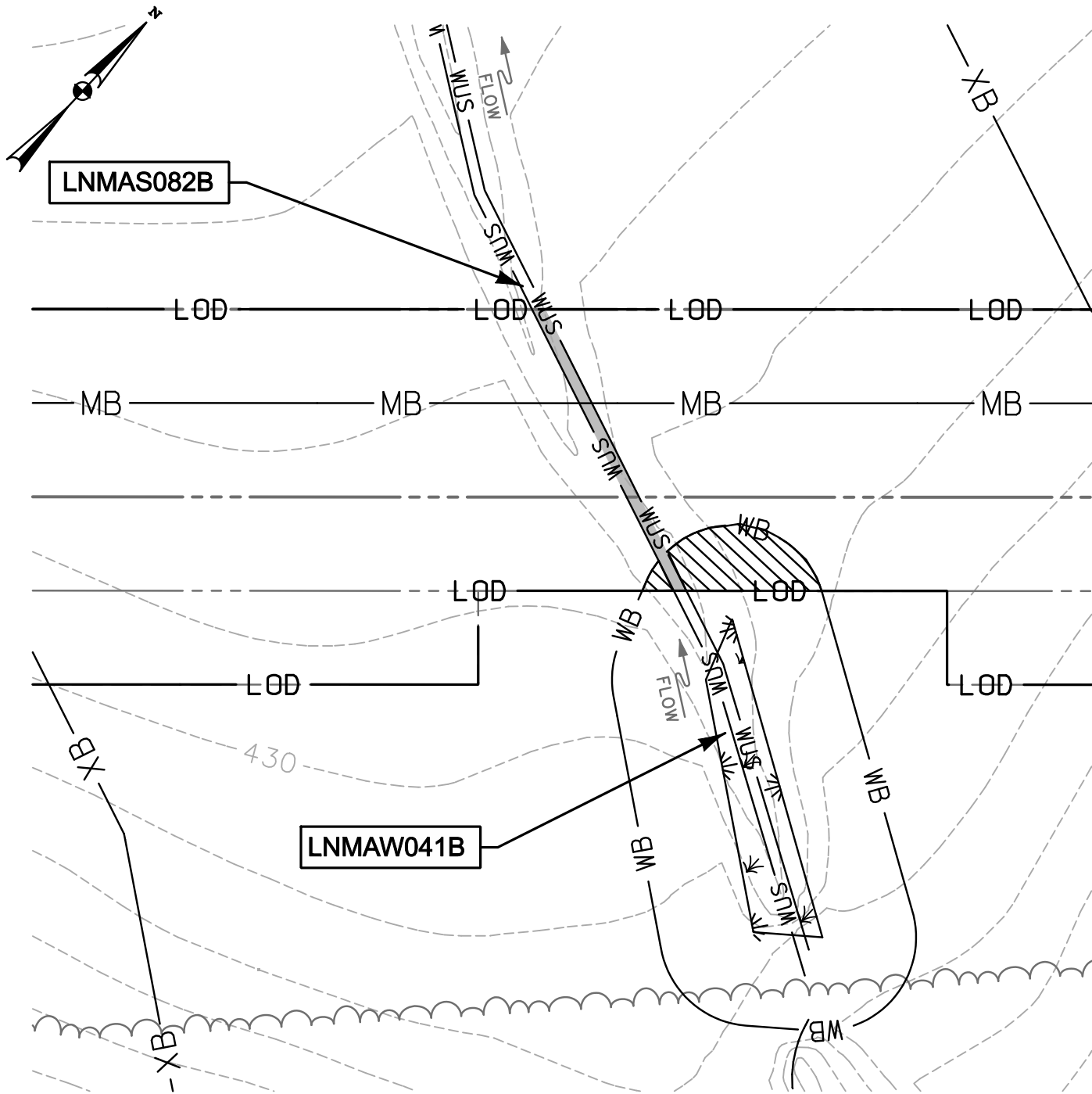
PLOTTED: '12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\\_IMPACT\_PLATE\\_SET\79-Plate-LINE\\_MB-HC\\_Impact56.dgn




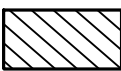
**KCI TECHNOLOGIES**  
 ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
MAY 2015  
 SCALE:  
1" = 40'  
 DRAWN BY:  
CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 56**  
 LNMAW081B; LNMAW040B



NOTE:  
 TEMPORARY IMPACTS  
 TO THESE RESOURCES  
 OCCURRED IN 2014 DURING  
 PIPELINE INSTALLATION  
 OF PHASE 1, HOWEVER  
 RESTORATION ACTIVITIES  
 WILL CONTINUE UNTIL FINAL  
 RESTORATION IS ACHIEVED.

-  TEMPORARY WATERS  
 OF U.S. IMPACT  
 252 SF./ 0.006 AC./ 84 LF.
-  TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 581 SF./ 0.01 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 80 OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\80-Plate-LINE\_MB-HC\_impact57.dgn



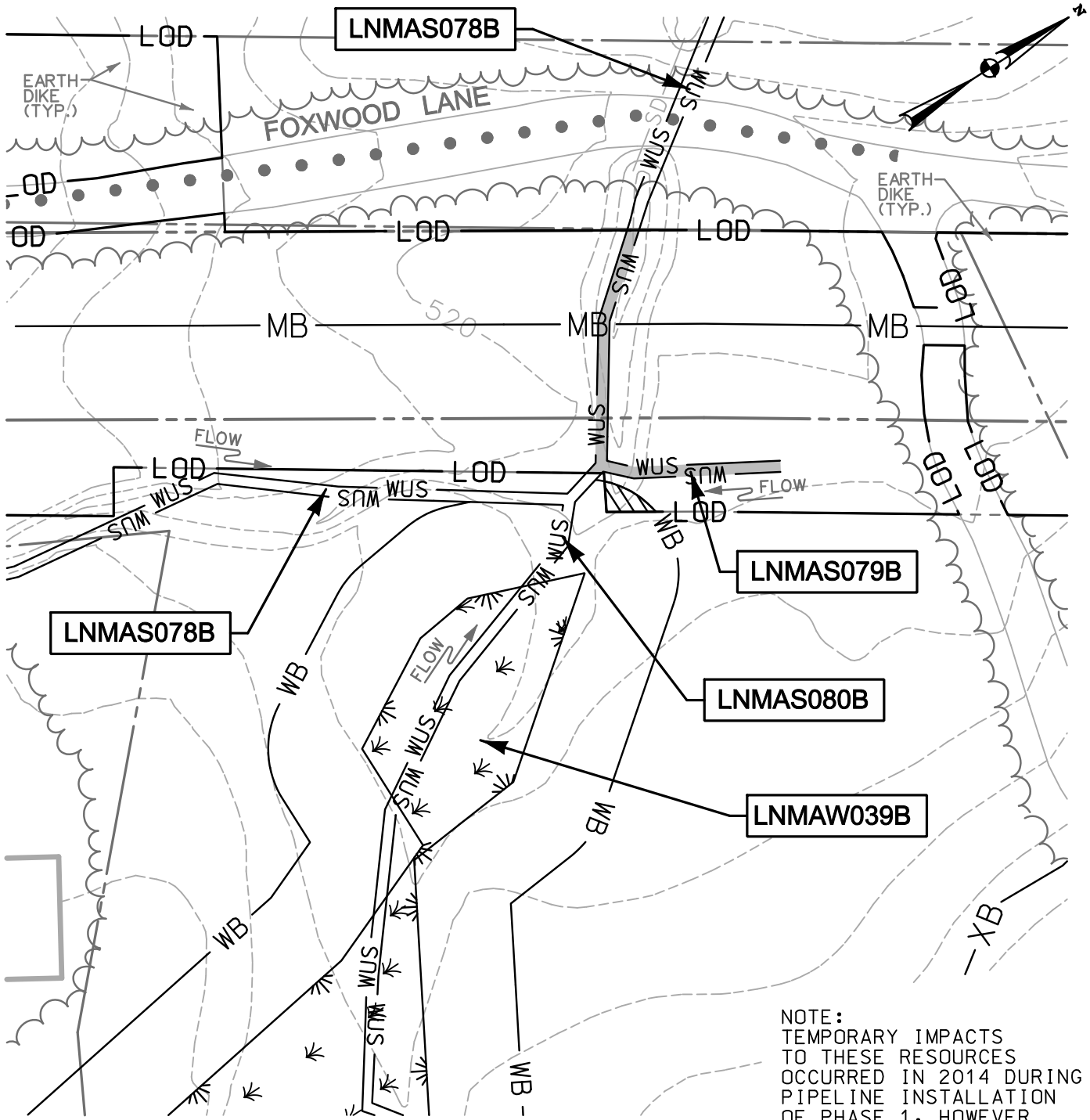
**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015


SCALE:  
 1" = 40'


DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 57**  
 LNMAW082B; LNMAW041B



NOTE:  
 TEMPORARY IMPACTS  
 TO THESE RESOURCES  
 OCCURRED IN 2014 DURING  
 PIPELINE INSTALLATION  
 OF PHASE 1, HOWEVER  
 RESTORATION ACTIVITIES  
 WILL CONTINUE UNTIL FINAL  
 RESTORATION IS ACHIEVED.

 TEMPORARY WATERS  
 OF U.S. IMPACT  
 339 SF./ 0.008 AC./ 113 LF.

 TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 67 SF./ 0.002 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 81 OF 90

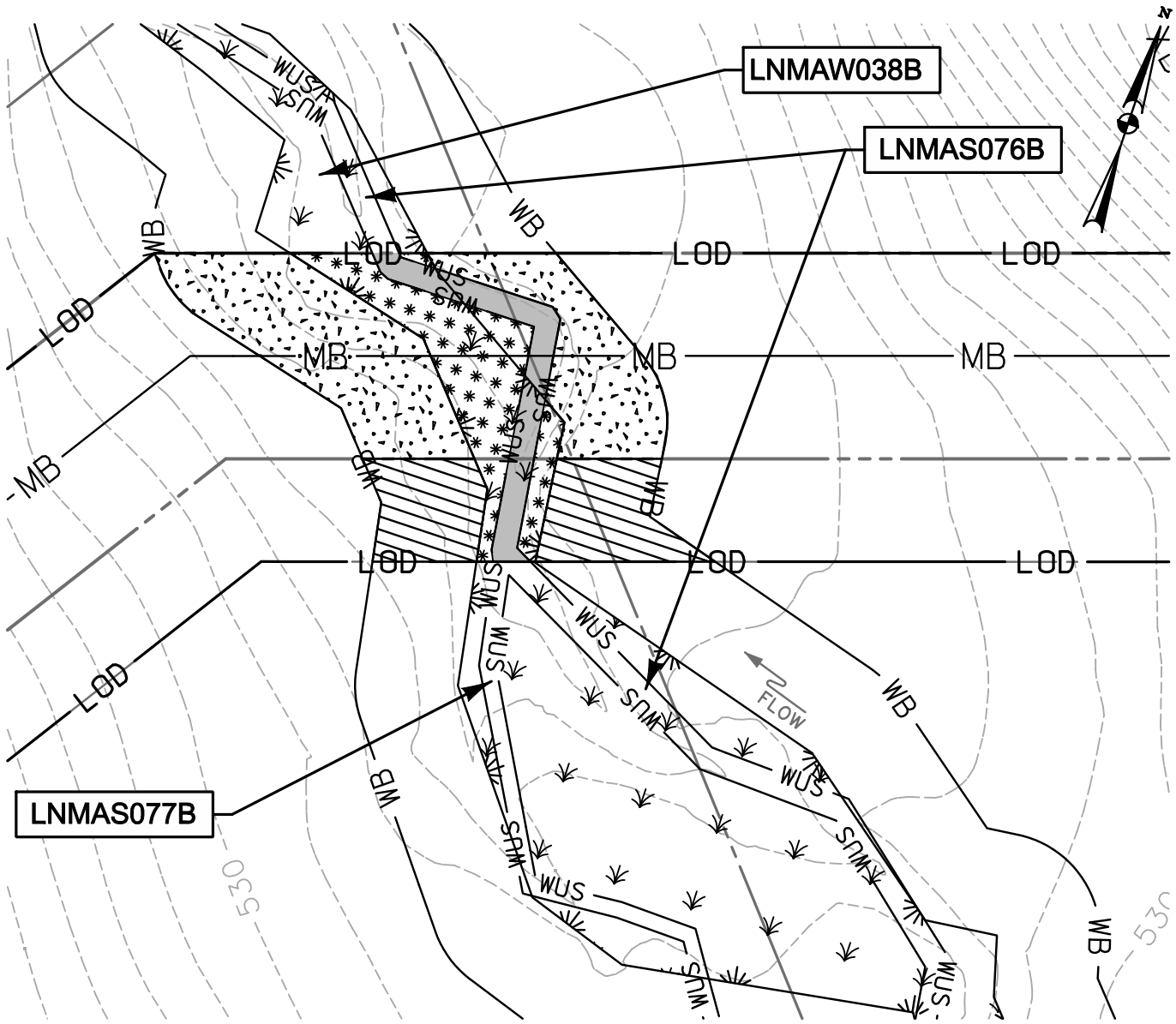
PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATESET\81-Plate-Line\_MB-HC\_impact58.dgn




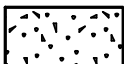
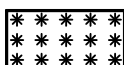

**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
 MAY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 58**  
 LNMA078B; LNMA079B; LNMAW039B



NOTE:  
 TEMPORARY IMPACTS  
 TO THESE RESOURCES  
 OCCURRED IN 2014 DURING  
 PIPELINE INSTALLATION  
 OF PHASE 1, HOWEVER  
 RESTORATION ACTIVITIES  
 WILL CONTINUE UNTIL FINAL  
 RESTORATION IS ACHIEVED.

- |   |  |   |   |
|---|--|---|---|
|  | TEMPORARY WATERS<br>OF U.S. IMPACT<br>627 SF./ 0.01 AC./ 105 LF. |  | PERMANENT 25' NON-TIDAL<br>WETLAND BUFFER IMPACT<br>3,105 SF./ 0.07 AC. |
|  | TEMPORARY NON-TIDAL<br>PEM WETLAND IMPACT<br>1,169 SF./ 0.03 AC. |  | TEMPORARY 25' NON-TIDAL<br>WETLAND BUFFER IMPACT<br>1,388 SF./ 0.03 AC. |

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 82 OF 90

PLOTTED: 11:24:43 PM on Wednesday, May 27, 2015  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\82-Plate-Line\_MB-HC\_impact59.dgn



**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

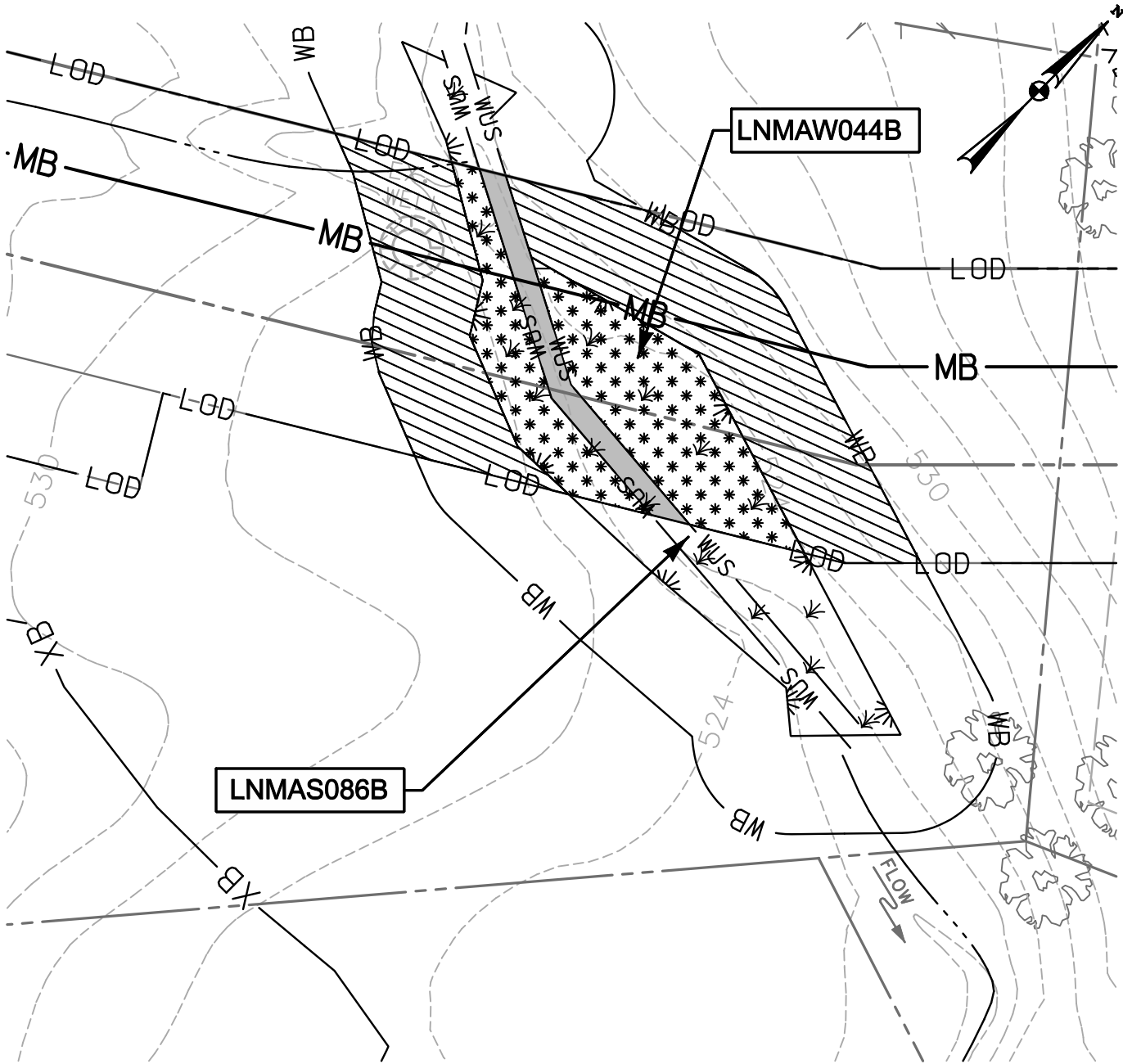
936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: REVISED  
MAY 2015


SCALE:  
1" = 40'

DRAWN BY:  
CSD

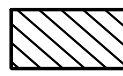
**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 59**  
 LNMAW076B; LNMAW038B



NOTE:  
 TEMPORARY IMPACTS  
 TO THESE RESOURCES  
 OCCURRED IN 2014 DURING  
 PIPELINE INSTALLATION  
 OF PHASE 1, HOWEVER  
 RESTORATION ACTIVITIES  
 WILL CONTINUE UNTIL FINAL  
 RESTORATION IS ACHIEVED.

 TEMPORARY WATERS  
 OF U.S. IMPACT  
 595 SF./ 0.01 AC./ 100 LF.

 TEMPORARY NON-TIDAL  
 PEM WETLAND IMPACT  
 2,986 SF./ 0.07 AC.

 TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 5,369 SF./ 0.12 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 83 OF 90

PLOTTED: "12:43 PM on Wednesday, May 27, 2015"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATESET\83-Plate-LINE\_MB-HC\_impact60.dgn



**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

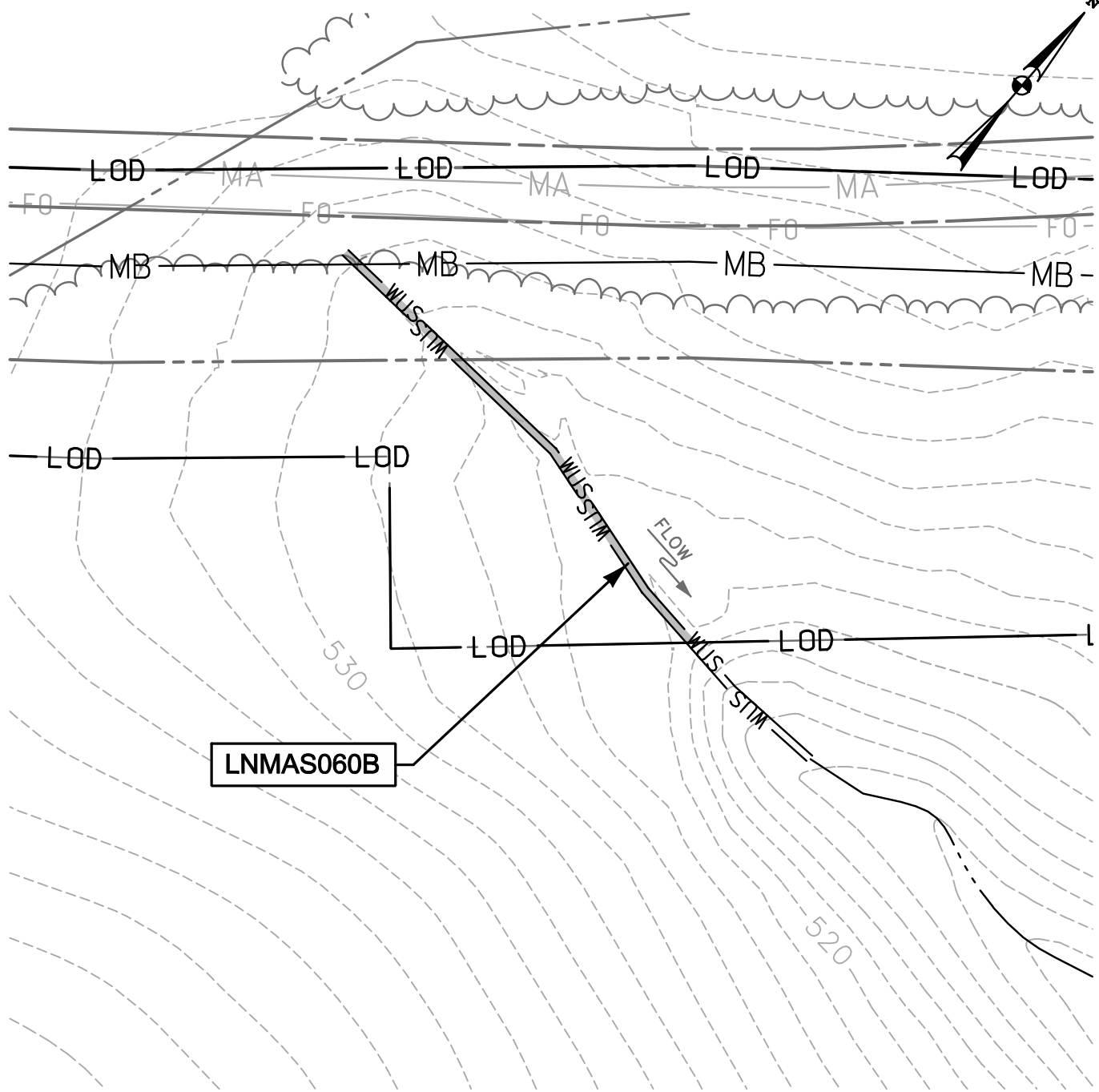
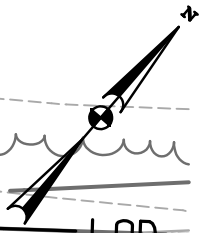
DATE: REVISED  
 MAY 2015

SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660


**IMPACT 60**  
 LNMA086B; LNMAW044B



**LNMA060B**

NOTE:  
SHEETS 85-90 INTENTIONALLY OMITTED.

NOTE:  
TEMPORARY IMPACTS TO THESE RESOURCES OCCURRED IN 2014 DURING PIPELINE INSTALLATION OF PHASE 1, HOWEVER RESTORATION ACTIVITIES WILL CONTINUE UNTIL FINAL RESTORATION IS ACHIEVED.

 TEMPORARY WATERS OF U.S. IMPACT  
274 SF./ 0.007 AC./ 136 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 84 OF 90

PLOTTED: '02:05 PM on Thursday, July 23, 2015'  
 BY: Division:  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\HDD\_IMPACT\_PLATE\_SET\84-Plate-LINE\_MB-HC\_impact61.dgn



**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
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DATE: REVISED  
 JULY 2015  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
 MDE PERMIT #12-NT-0433/ TRACKING #201261660  
**IMPACT 61**  
 LNMA060B

Table 2-1 (July 31, 2015)

Wetlands Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project  
 Columbia Gas Transmission, LLC  
 Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>8</sup>	Wetland Site ID	Associated Waterbody Crossing	Crossing Methodology	Phase	HGM Code <sup>1</sup>	Waters Type <sup>2,3</sup>	Approx. Milepost	Impact Plate Number	MOSF Sheet Number	USGS Quad Name	Watershed Name	Cowardin Classification	Latitude/ Longitude Approximate Center Point	Total Wetland Impact Area <sup>6, 7, 9</sup> (sq. ft.)	Wetland Buffer Impact Area <sup>12</sup> (sq. ft.)	Permanent Loss of Wetlands <sup>9</sup> (sq. ft. and ac.)	Temporary Wetland Impacts <sup>9,13</sup> (sq. ft.)	Temporary Wetland Impacts <sup>9,13</sup> (ac.)	Permanent Wetland Conversion Impacts <sup>4, 5, 14</sup> (sq. ft.)	Permanent Wetland Conversion Impacts <sup>4, 5, 9, 14</sup> (ac.)
Baltimore	1	LNMAW001B	No Associated Waterbodies	O-C	3	RIVERINE	RPWWD	0.5	1	1	Reisterstown	Gwynns Falls	PEM	39.4218/-76.7762	670	4,926	0	670	0.02	NA	NA
													PFO	39.4217/-76.7761	2,241		0	1501	0.03	740	0.02
Baltimore	3	LNMAW002B	LNMA005B and LNMA006B	O-C	3	RIVERINE	RPWWD	0.9	2	2	Reisterstown	Gwynns Falls	PEM	39.4276/-76.7721	661	2,709	0	661	0.015	NA	NA
													PFO	39.4278/-76.7722	298		0	0	0	298	0.007
Baltimore	4	LNMAW004B	LNMA006A and LNMA007A	O-C	3	RIVERINE	RPWWD	1.2	3, 4, 5, 6	3	Reisterstown	Gwynns Falls	PEM	39.4320/-76.7695	20,300	9,457	0	20300	0.47	NA	NA
													PFO	39.4325/-76.7685	38,289		0	17134	0.39	21,155	0.49
Baltimore	5, 6	LNMAW005B	LNMA010B	O-C	3	RIVERINE	RPWWD	2	7, 8	5	Reisterstown	Jones Falls	PEM	39.4397/-76.7600	7,736	11,714	0	7736	0.17	NA	NA
													PFO	39.4398/-76.7601	674		0	26	0.0006	648	0.01
Baltimore	7	LNMAW007B	LNMA011B	O-C	3	RIVERINE	RPWWD	2.1	9	6	Reisterstown	Jones Falls	PEM	39.4404/-76.7595	121	1,904	0	121	0.003	NA	NA
Baltimore	11	LNMAW003A	LNMA004A, LNMA005A, and LNMA0013A	O-C	3	RIVERINE	RPWWD	3.6	13	10	Cockeysville	Jones Falls	PEM	39.4534/-76.7396	3,767	2,801	0	3766.50	0.09	NA	NA
													PFO	39.4535/-76.7399	2,015		0	1	0.00002	2,014	0.05
Baltimore	12	LNMAW004A	LNMA011A	O-C	3	RIVERINE	RPWWD	3.6	14	10	Cockeysville	Jones Falls	PEM	39.4534/-76.7389	9	1,232	0	8.6	0.0002	NA	NA
Baltimore	13	LNMAW002A	LNMA008A	O-C	3	RIVERINE	RPWWD	3.8	15	11	Cockeysville	Jones Falls	PEM	39.4542/-76.7345	208	1,955	0	208	0.005	NA	NA
Baltimore	14	LNMAW005A	LNMA014A	O-C	3	RIVERINE	RPWWD	5.3	16, 17	12	Cockeysville	Loch Raven Reservoir	PEM	39.4686/-76.7162	23,210	3,986	0	23210	0.53	NA	NA
Baltimore	16	LNMAW008B	LNMA013B and LNMA042A	O-C	3	RIVERINE	RPWWD	6.4	18	13	Cockeysville	Loch Raven Reservoir	PEM	39.4812/-76.7038	45	1,589	0	45	0.001	NA	NA
Baltimore	17	LNMAW009B	LNMA015B and LNMA014B	O-C	3	RIVERINE	RPWWD	6.5	19	14	Cockeysville	Loch Raven Reservoir	PEM	39.4819/-76.7027	541	3,443	0	541	0.01	NA	NA
Baltimore	19	LNMAW012B	LNMA019B	O-C	3	RIVERINE	RPWWD	7.5	21	16	Cockeysville	Loch Raven Reservoir	PEM	39.4916/-76.6873	1,179	3,486	0	1179	0.03	NA	NA
Baltimore	21	LNMAW015B	LNMA023B	O-C	2B	RIVERINE	RPWWD	8	23	17	Cockeysville	Loch Raven Reservoir	PEM	39.4950/-76.6805	3,276	4,501	0	3276	0.08	NA	NA
													PFO	39.4952/-76.6806	3,957		0	2253	0.05	1,704	0.04
Baltimore	22	LNMAW037B	LNMA022B and LNMA072B	O-C	2A	RIVERINE	RPWWD	8.2	24, 25	18	Cockeysville	Loch Raven Reservoir	PEM	39.497/-76.677	22,159	6,302	0	22159	0.51	NA	NA
													PSS	39.497/-76.677	0		0	0.00	0	0	
Baltimore	24	LNMAW017B	LNMA026B	O-C	2B	RIVERINE	RPWWN	9.7	28	20	Hereford	Loch Raven Reservoir	PEM	39.5105/-76.6567	0	2,188	0	0	0.00	NA	NA
Baltimore	25	LNMAW016B	LNMA026B	O-C	2B	RIVERINE	RPWWD	9.9	29, 30	21	Hereford	Loch Raven Reservoir	PEM	39.5119/-76.6542	17,195	17,518	0	17195	0.40	NA	NA
Baltimore	26	LNMAW006A	LNMA015A and LNMA015A-001	O-C	2C	RIVERINE	RPWWD	10.8	31	22	Hereford	Loch Raven Reservoir	PEM	39.5204/-76.6402	6,940	8,748	0	6940	0.16	NA	NA
Baltimore	27	LNMAW016A <sup>11</sup>	LNMA040A, LNMA040A-A, LNMA017A, LNMA018A, and LNMA018A-001	O-C	2C	RIVERINE	RPWWD	11.4	33	24	Hereford	Loch Raven Reservoir	PFO	39.5254/-76.6318	0.0	0	0	0	0	0	0.00
Baltimore	29	LNMAW008A	LNMA021A	O-C	2C	RIVERINE	RPWWD	11.7	37	NA	Hereford	Loch Raven Reservoir	PEM	39.5271/-76.6266	193	2,177	0	193	0.004	NA	NA
Baltimore	31	LNMAW019B	LNMA033B	O-C	2B	RIVERINE	RPWWD	12.4	39, 40	28	Phoenix	Loch Raven Reservoir	PEM	39.5295/-76.6132	14,839	15,992	0	14839	0.34	NA	NA
													PSS	39.5295/-76.6125	1,204		0	443	0.01	761	0.02
Baltimore	33	LNMAW018B	LNMA029B and LNMA030B	O-C	2B	RIVERINE	RPWWD	12.9	41	29	Phoenix	Loch Raven Reservoir	PEM	39.5303/-76.6051	6,209	5,304	0	6209	0.14	NA	NA
													PFO	39.5302/-76.6050	2,043		0	2043	0.05	NA	NA



Table 2-1 (July 31, 2015)

Wetlands Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>8</sup>	Wetland Site ID	Associated Waterbody Crossing	Crossing Methodology	Phase	HGM Code <sup>1</sup>	Waters Type <sup>2,3</sup>	Approx. Milepost	Impact Plate Number	MOSF Sheet Number	USGS Quad Name	Watershed Name	Cowardin Classification	Latitude/ Longitude Approximate Center Point	Total Wetland Impact Area <sup>5, 7, 9</sup> (sq. ft.)	Wetland Buffer Impact Area <sup>12</sup> (sq. ft.)	Permanent Loss of Wetlands <sup>9</sup> (sq. ft. and ac.)	Temporary Wetland Impacts <sup>9,13</sup> (sq. ft.)	Temporary Wetland Impacts <sup>9,13</sup> (ac.)	Permanent Wetland Conversion Impacts <sup>4, 5, 14</sup> (sq. ft.)	Permanent Wetland Conversion Impacts <sup>4, 5, 9, 14</sup> (ac.)
Baltimore	34	LNMAW021B	LNMA039B	O-C	2B	RIVERINE	RPWWD	13.1	42	30	Phoenix	Loch Raven Reservoir	PEM	39.5310/-76.6006	1,253	3,529	0	1253	0.03	NA	NA
Baltimore	36	LNMAW020B	LNMA037B	O-C	2B	RIVERINE	RPWWD	13.7	44	32	Phoenix	Loch Raven Reservoir	PEM PFO	39.5322/-76.5900	65 0	1,602	0 0	65 0	0.001 0.00	NA 0	NA 0
Baltimore	37	LNMAW022B	LNMA040B, and LNMA040B-BRANCH	O-C	2B	RIVERINE	RPWWD	14.2	45	33	Phoenix	Loch Raven Reservoir	PEM PFO	39.5328/-76.5815	318 85	3,392	0	318	0.007	NA	85 0.002
Baltimore	38	LNMAW009A	LNMA023A	O-C	2B	RIVERINE	RPWWD	14.4	46, 47	34	Phoenix	Loch Raven Reservoir	PEM	39.5330/-76.5779	13,431	8,040	0	13431	0.31	NA	NA
Baltimore	39	LNMAW023B	No Associated Waterbodies	O-C	2B	RIVERINE	RPWWD	14.9	48, 49	35	Phoenix	Little Gunpowder Falls	PEM	39.5328/-76.5685	5,520	8,298	0	5520	0.13	NA	NA
Baltimore	40	LNMAW024B	LNMA041B	O-C	2B	RIVERINE	RPWWD	15	49, 50	36	Phoenix	Little Gunpowder Falls	PEM PFO	39.5330/-76.5669	3,462 5,821	4,343	0	3462 2892	0.08 0.07	NA 2,929	NA 0.07
Baltimore	41	LNMAW025B	LNMA042B	O-C	2B	RIVERINE	RPWWD	15.4	51	37	Phoenix	Little Gunpowder Falls	PEM PFO	39.5325/-76.5594 39.5327/-76.5592	3,562 2,557	5,304	0	3562 1602	0.08 0.04	NA 955	NA 0.02
Baltimore	42	LNMAW026B	LNMA043B	O-C	2B	RIVERINE	RPWWD	15.7	52	38	Phoenix	Little Gunpowder Falls	PEM PFO	39.5320/-76.5529 39.5323/-76.5525	6,302 2,704	6,092	0	6302 1554	0.14 0.04	NA 1,150	NA 0.03
Baltimore	43	LNMAW011A	No Associated Waterbodies	O-C	2B	RIVERINE	RPWWD	15.8	53	NA	Phoenix	Little Gunpowder Falls	PEM	39.5319/-76.5511	20	868	0	20	0.0005	NA	NA
Harford	46	LNMAW036B	No Associated Waterbodies	HDD	1	RIVERINE	RPWWN	17.6	54	NA	Phoenix	Little Gunpowder Falls	PEM	39.543/-76.528	<b>Impact Eliminated via HDD</b>						
Harford	48	LNMAW040B <sup>10</sup>	LNMA081B	O-C	1	RIVERINE	RPWWD	18.1	56	40	Phoenix	Little Gunpowder Falls	PEM	39.549/-76.522	1,617	6,761	0	1,617	0.04	NA	NA
Harford	49	LNMAW041B	LNMA082B	O-C	1	RIVERINE	RPWWD	18.6	57	41	Phoenix	Little Gunpowder Falls	PEM	39.5530/-76.5163	0	581	0	0	0.00	NA	NA
Harford	50	LNMAW039B	LNMA078B, LNMA079B, and LNMA080B	O-C	1	RIVERINE	RPWWD	19.1	58	42	Phoenix	Little Gunpowder Falls	PFO	39.5526/-76.5081	0	67	0	0	0.00	0	0
Harford	51	LNMAW038B	LNMA076B, and LNMA077B	O-C	1	RIVERINE	RPWWD	19.2	59	43	Phoenix	Little Gunpowder Falls	PEM	39.554/-76.507	1,169	4,493	0	1,169	0.03	NA	NA
Harford	52	LNMAW044B <sup>10</sup>	LNMA086B	O-C	1	RIVERINE	RPWWD	20.2	60	44	Jarrettsville	Upper Winters Run	PEM	39.560/-76.492	2,986	5,369	0	2,986	0.07	NA	NA
<b>Total MDE Impacts (HDD Implemented at Little Gunpowder Falls-Completed)</b>															<b>230,850</b>	<b>170,671</b>	<b>0</b>	<b>198,411</b>	<b>4.55</b>	<b>32,439</b>	<b>0.75</b>

LEGEND:

HDD = Horizontal Directional Drill      NA = Not Applicable      PEM = Palustrine Emergent      PSS = Palustrine Scrub-Shrub      UNT= Unnamed Tributary  
HGM = Hydrogeomorphic      O-C = Open Cut      PFO = Palustrine Forested      TNW = Transnavigable Waterway

NOTES:

<sup>1</sup>DEPRESS = Depressional (water source is return flow from groundwater and interflow, dominant hydrodynamics is vertical); RIVERINE = Riverine (overbank flow from a channel, and hydrodynamics which are predominantly unidirectional and horizontal)

<sup>2</sup>RPWWD = wetlands directly abutting relatively permanent waters (RPWs) that flow directly or indirectly into TNWs; RPWWN = wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs; ISOLATE = isolated (interstate or intrastate) waters, including isolated wetlands.

<sup>3</sup>Maryland Wetland of State Special Concern as defined by the Code of Maryland Regulations (COMAR) Title 26, Subtitle 23, Chapter 06, Sections 01 & 02. None were identified in review area.

<sup>4</sup>Permanent conversion impacts are not considered permanent loss as additional fill material will not be placed in wetlands and existing contours will be replaced. However, there will be functionality loss due to permanent conversion of PFO and PSS wetlands to PEM in the new permanent ROW.

<sup>5</sup>The Project consists of installing a pipeline that will require new permanent ROW. No permanent fill impacts are anticipated to wetland sites as a result of the Project; therefore, no net loss of wetland area is anticipated. However, the new proposed permanent ROW will require conversion of PFO and PSS wetlands to PEM wetlands. These wetland conversion impacts are permanent and correspond to a 50' width along the centerline.

Table 2-1 (July 31, 2015)

Wetlands Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>8</sup>	Wetland Site ID	Associated Waterbody Crossing	Crossing Methodology	Phase	HGM Code <sup>1</sup>	Waters Type <sup>2,3</sup>	Approx. Milepost	Impact Plate Number	MOSF Sheet Number	USGS Quad Name	Watershed Name	Cowardin Classification	Latitude/ Longitude Approximate Center Point	Total Wetland Impact Area <sup>6, 7, 9</sup> (sq. ft.)	Wetland Buffer Impact Area <sup>12</sup> (sq. ft.)	Permanent Loss of Wetlands <sup>9</sup> (sq. ft. and ac.)	Temporary Wetland Impacts <sup>9,13</sup> (sq. ft.)	Temporary Wetland Impacts <sup>9,13</sup> (ac.)	Permanent Wetland Conversion Impacts <sup>4, 5, 14</sup> (sq. ft.)	Permanent Wetland Conversion Impacts <sup>4, 5, 9, 14</sup> (ac.)
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<sup>6</sup> The main objective of any wetland crossing is to construct the pipeline and restore the original contour of the wetland. A maximum 75-foot-wide Construction Work Area may be used through wetlands. Vegetation will be cut off just above ground level, leaving existing root systems in place, and will then be removed from the wetland for disposal. Grading in wetlands will consist of the minimum necessary for safe and efficient equipment operation. The pulling of tree stumps and grading activities will be limited to areas directly over the trenchline.

<sup>7</sup> These impact areas include both permanent and temporary impacts.

<sup>8</sup> Crossing numbers were assigned to jurisdictional wetlands and streams that are hydrologically connected. Therefore crossing numbers located in Tables 2-1 and 2-2 are the same for some wetlands and streams, and may correspond to multiple features. Features were assigned crossing numbers if they are located within the proposed workspace corridor.

<sup>9</sup> Per the pre-application meeting, the Maryland Department of Environment (MDE) and the United States Army Corps of Engineers (USACE) requested that total impacts include the sum of temporary impacts, permanent loss, and permanent conversion impacts. The agencies further indicated that permanent loss would be zero as there will be no additional fill placed within wetlands.

<sup>10</sup> Wetland and wetland buffer impacts modified in Permit Modification A (August 1, 2014).

<sup>11</sup> Impacts have been reduced since the June 1, 2015 public notice as a result of additional avoidance and minimization measures.

<sup>12</sup> Wetland Buffer Impact Area includes both permanent and temporary impacts (27,430 sq. ft. / 0.63 ac. permanent and 143,241 sq. ft. / 3.29 ac. temporary).

<sup>13</sup> Total temporary impacts include 168,962 sq. ft. (3.88 ac.) of PEM impacts, 443 sq. ft. (0.01 ac.) of PSS impacts and 29,006 sq. ft. (0.67 ac.) of PFO impacts.

<sup>14</sup> Total permanent impacts include 761 sq. ft. (0.02 ac.) of PSS conversion impacts and 31,678 sq. ft. (0.73 ac.) of PFO conversion impacts.

Table 2-2 (July 31, 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>7</sup>	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification <sup>1</sup>	Waters Type <sup>2</sup>	MOSF and Profile Drawing Sheet Number	OHWB Width <sup>3</sup> (linear ft.)	TOB Width (linear ft.) <sup>3</sup>	Temporary Stream Impact Length Within CWA <sup>5,6</sup> (linear ft.)	Temporary Stream Area Impact <sup>4,5,6</sup> (sq. ft.)	Temporary Floodplain Area Impact <sup>8</sup> (sq. ft.)	Temporary Floodplain Impact <sup>8</sup> (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
Baltimore	2	LNMA003B	No Associated Wetlands	O-C	3	P	0.5	1, 1A	39.4221/-76.7763	Reisterstown	Gwynns Falls	III	RPW	1	50	49	80	3697	47,742	733	0
Baltimore	3	LNMA005B	LNMAW002B	O-C	3	P	0.9	2	76.7717	Reisterstown	Gwynns Falls	III	RPW	2	25	41	95	2990	19,319	318	0
Baltimore	3	LNMA006B	LNMAW002B	O-C	3	E	0.9	2	39.4231/-76.7752	Reisterstown	UNT To Gwynns Falls	III	NRPW	2	5	NA	16	17	NA	NA	0
Baltimore	4	LNMA006A	LNMAW004B	O-C	3	P	1.2	4	39.4545/-76.7346	Reisterstown	UNT To Gwynns Falls	III	RPW	3	10	8	87	521	NA	NA	0
Baltimore	4	LNMA007A	LNMAW004B	O-C	3	I	1.2	4	39.4545/-76.7346	Reisterstown	UNT To Gwynns Falls	III	RPW	3	2	NA	63	196	NA	NA	0
Baltimore	5	LNMA010B	LNMAW005B	O-C	3	P	2	7	39.4532/-76.7386	Reisterstown	UNT North North Branch Jones Falls	III	RPW	5	3	2	75	150	NA	NA	0
Baltimore	7	LNMA011B	LNMAW007B	O-C	3	P	2.1	9	39.4535/-76.7390	Reisterstown	UNT To North Branch Jones Falls	III	RPW	6	4	2	83	165	NA	NA	0
Baltimore	8	LNMA012B	No Associated Wetlands	O-C	3	P	2.5	10	39.4687/-76.7167	Reisterstown	UNT North Branch Jones Falls	III	RPW	7	5	2	52	104	NA	NA	0
Baltimore	9	LNMA001A	No Associated Wetlands	O-C	3	E	2.8	11	39.4175/-76.7799	Reisterstown	UNT To North Branch Jones Falls	III	NRPW	8	3	NA	194	586	NA	NA	0
Baltimore	10	LNMA002A	No Associated Wetlands	O-C	3	P	2.9	12	39.4174/-76.7797	Cockeysville	North Branch Jones Falls	III	RPW	9	10	13	89	974	3,155	65	0
Baltimore	11	LNMA004A	LNMAW003A	O-C	3	P	3.5	13	39.4534/-76.7394	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	4	NA	0.30	1	NA	NA	0
Baltimore	11	LNMA005A	LNMAW003A	O-C	3	P	3.5	13	39.4316/-76.7704	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	3	12	94	525	NA	NA	0
Baltimore	11	LNMA013A	LNMAW003A	O-C	3	P	3.5	13, 14	39.4819/-76.7028	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	2	24.2	143	1364	NA	NA	0
Baltimore	12	LNMA011A	LNMAW004A	O-C	3	P	3.6	14	39.4455/-76.7559	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	2	NA	1	6	NA	NA	0
Baltimore	13	LNMA008A	LNMAW002A	O-C	3	P	3.8	15	39.4228/-76.7758	Cockeysville	UNT To North Branch Jones Falls	III	RPW	11	12	11.1	55	555	NA	NA	0
Baltimore	14	LNMA014A	LNMAW005A	O-C	3	P	5.3	16, 17	39.4818/-76.7026	Cockeysville	Beaverdam Run	III-P	RPW	12	13	32	128	2010	23,783	460	0
Baltimore	16	LNMA013B	LNMAW008B	O-C	3	I	6.4	18	39.5204/-76.6399	Cockeysville	UNT To Baisman Run	III-P	RPW	13	5	3	140	279	NA	NA	0
Baltimore	16	LNMA042A	LNMAW008B	O-C	3	P	6.4	18	39.5347/-76.5161	Cockeysville	UNT To Baisman Run	III-P	RPW	13	1	2	44	91	NA	NA	0
Baltimore	17	LNMA014B	LNMAW009B	O-C	3	P	6.4	19	39.5219/-76.6381	Cockeysville	UNT To Baisman Run	III-P	RPW	14	1	2	66	133	NA	NA	0
Baltimore	17	LNMA015B	LNMAW009B	O-C	3	I	6.4	19	39.5251/-76.6317	Cockeysville	UNT To Baisman Run	III-P	RPW	14	1	NA	32	67	NA	NA	0
Baltimore	18	LNMA017B	No Associated Wetlands	O-C	3	P	6.7	20	39.4932/-76.6837	Cockeysville	Baisman Run	III-P	RPW	15	4	2	90	179	NA	NA	0
Baltimore	19	LNMA019B	LNMAW012B	O-C	3	P	7.6	21	39.5329/-76.5782	Cockeysville	UNT To Oregon Pool	III-P	RPW	16	2	2	89	178	NA	NA	0
Baltimore	20	LNMA024B	No Associated Wetlands	O-C	2B	P	7.9	22, 23	39.5348/-76.5747	Cockeysville	Oregon Branch	III-P	RPW	17	6	21	77	1935	27,794	537	0

Table 2-2 (July 31, 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>7</sup>	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification <sup>1</sup>	Waters Type <sup>2</sup>	MOSF and Profile Drawing Sheet Number	OHHM Width <sup>3</sup> (linear ft.)	TOB Width (linear ft.) <sup>3</sup>	Temporary Stream Impact Length Within CWA <sup>5,6</sup> (linear ft.)	Temporary Stream Area Impact <sup>4,5,6</sup> (sq. ft.)	Temporary Floodplain Area Impact <sup>8</sup> (sq. ft.)	Temporary Floodplain Impact <sup>8</sup> (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
Baltimore	21	LNMA023B	LNMAW015B	O-C	2B	P	7.9	23	39.5352/-76.5758	Cockeysville	UNT To Oregon Branch	III-P	RPW	17	3	2	78	157	NA	NA	0
Baltimore	22	LNMA022B	LNMAW037B	O-C	2B	I	8.2	24	39.5116/-76.6546	Cockeysville	UNT To Oregon Branch	III-P	RPW	18	5	3	95	192	NA	NA	0
Baltimore	22	LNMA072B	LNMAW037B	O-C	2B	I	8.2	24	39.4221/-76.7763	Cockeysville	UNT To Oregon Branch	III-P	RPW	18	2	NA	37	147	NA	NA	0
Baltimore	23	LNMA027B	No Associated Wetlands	O-C	2B	P	9.6	26	39.5299/-76.6109	Hereford	Western Run	III-P	RPW	19	76	77	75	5620	15,273	296	0
Baltimore	24, 25	LNMA026B	LNMAW017B, LNMAW016B	O-C	2B	P	9.7	27, 29	39.5299/-76.6108	Hereford	UNT To Western Run	III-P	RPW	20, 21	5	5	200	400	NA	NA	0
Baltimore	26	LNMA015A and LNMA015A-001	LNMAW006A	O-C	2C	P	10.8	31	39.4829/-76.7021	Hereford	UNT To Gunpowder Falls	III-P	RPW	22	10	NA	41	793	NA	NA	0
Baltimore	27	LNMA018A and LNMA018A-001 <sup>14</sup>	LNMAW016A	O-C	2C	P	11.2	32, 33	39.5266/-76.6276	Hereford	UNT To Gunpowder Falls	III-P	RPW	23,25	2	94.2	199	2930	NA	NA	0
Baltimore	27	LNMA017A <sup>14</sup>	LNMAW016A	O-C	2C	P	11.4	33, 34, 35	39.4918/-76.6875	Hereford	UNT To Gunpowder Falls	III-P	RPW	23,24,25	3	105.1	282	5724	NA	NA	0
Baltimore	27	LNMA040A and LNMA040A-A <sup>14</sup>	LNMAW016A	O-C	2C	P	11.4	33	39.5321/-76.5264	Hereford	UNT To Gunpowder Falls	III-P	RPW	24	2	3.2	21	42	NA	NA	0
Baltimore	28	LNMA019A	No Associated Wetlands	O-C	2C	P	11.7	35A, 36	39.4964/-76.6773	Hereford	Gunpowder Falls	III-P	RPW	26	114	114.3	76	8467	34,480	575	0
Baltimore	29	LNMA021A	LNMAW008A	O-C	2C	P	11.7	38	39.4778/-76.7048	Hereford	UNT To Gunpowder Falls	III-P	RPW	27	2	NA	60	322	NA	NA	0
Baltimore	31	LNMA033B	LNMAW019B	O-C	2B	P	12.5	40	39.5276/-76.4999	Phoenix	UNT To Carroll Branch	III-P	RPW	28	1	3	94	188	NA	NA	0
Baltimore	32	LNMA026A	No Associated Wetlands	NA <sup>9</sup>	2B	P	12.5	NA	39.5321/-76.5488	Phoenix	UNT To Carroll Branch	III-P	RPW	NA	3	4	NA	NA	NA	NA	0
Baltimore	33	LNMA030B	LNMAW018B	O-C	2B	P	12.8	41	39.5284/-76.6198	Phoenix	UNT To Carroll Branch	III-P	RPW	29	6	2	81	166	NA	NA	0
Baltimore	34	LNMA039B	LNMAW021B	O-C	2B	P	13.1	42	39.5320/-76.5265	Phoenix	UNT To Carroll Branch	III-P	RPW	30	3	3	147	293	NA	NA	0
Baltimore	35	LNMA038B	No Associated Wetlands	O-C	2B	P	13.3	43	39.5316/-76.5533	Phoenix	UNT To Carroll Branch	III-P	RPW	31	4	2	106	213	NA	NA	0
Baltimore	36	LNMA037B	LNMAW020B	O-C	2B	P	13.7	44	39.5326/-76.5593	Phoenix	UNT To Carroll Branch	III-P	RPW	32	3	2	78	156	NA	NA	0
Baltimore	37	LNMA040B	LNMAW022B	O-C	2B	P	14.2	45	39.5340/-76.5191	Phoenix	UNT To Greene Branch	III-P	RPW	33	4	3	96	190	NA	NA	0

Table 2-2 (July 31, 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project  
Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>7</sup>	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification <sup>1</sup>	Waters Type <sup>2</sup>	MOSF and Profile Drawing Sheet Number	OHWM Width <sup>3</sup> (linear ft.)	TOB Width (linear ft.) <sup>3</sup>	Temporary Stream Impact Length Within CWA <sup>5,6</sup> (linear ft.)	Temporary Stream Area Impact <sup>4,5,6</sup> (sq. ft.)	Temporary Floodplain Area Impact <sup>8</sup> (sq. ft.)	Temporary Floodplain Impact <sup>8</sup> (cu. yd.)	Additional Fill within Floodplain (cu. yd.)	
Baltimore	37	LNMA040B-BRANCH	LNMAW022B	O-C	2B	P	14.2	45	39.5340/-76.5185	Phoenix	UNT To Greene Branch	III-P	RPW	33	6	NA	36	73	NA	NA	0	
Baltimore	38	LNMA023A	LNMAW009A	O-C	2B	P	14.3	46	39.5347/-76.5761	Phoenix	UNT To Greene Branch	III-P	RPW	34	2	8	90	628	NA	NA	0	
Baltimore	40	LNMA041B	LNMAW024B	O-C	2B	P	14.9	49, 50	39.5342/-76.5181	Phoenix	Parker Branch	III	RPW	36	4	4	122	242	NA	NA	0	
Baltimore	41	LNMA042B	LNMAW025B	O-C	2B	P	15.3	51	39.5350/-76.5155	Phoenix	UNT To Parker Branch	III	RPW	37	3	3	83	166	NA	NA	0	
Baltimore	42	LNMA043B	LNMAW026B	O-C	2B	P	15.7	52	39.5313/-76.5329	Phoenix	UNT To Parker Branch	III	RPW	38	10	2	108	215	NA	NA	0	
Harford	47	LNMA075B	No Associated Wetlands	HDD	1	P	17.7	55A	39.5434/-76.5275	Phoenix	Little Gunpowder Falls	III	RPW	39				<b>Impact Eliminated via HDD</b>				
Harford	54	LNMA0100B <sup>10, 11, 12</sup>	No Associated Wetlands	NA	1	P	17.8	55E, 55F	39.546/-76.528	Phoenix	Yellow Branch	III	RPW	NA	NA	NA	NA	0	13,008	0	0	
Harford	48	LNMA081B <sup>13</sup>	LNMAW040B	O-C	1	I	18.1	56	39.5485/-76.5223	Phoenix	UNT To Yellow Branch	III	RPW	40	1	2	134	269	NA	NA	0	
Harford	49	LNMA082B	LNMAW041B	O-C	1	I	18.6	57	39.5532/-76.5167	Phoenix	UNT To Yellow Branch	III	RPW	41	1	3	84	252	NA	NA	0	
Harford	50	LNMA078B	LNMAW039B	O-C	1	P	19.1	58	39.5532/-76.5087	Phoenix	UNT To Yellow Branch	III	RPW	42	4	3	66	199	NA	NA	0	
Harford	50	LNMA079B	LNMAW039B	O-C	1	E	19.1	58	39.5531/-76.5084	Phoenix	UNT To Yellow Branch	III	NRPW	42	1	NA	47	140	NA	NA	0	
Harford	51	LNMA076B	LNMAW038B	O-C	1	P	19.2	59	39.5544/-76.5073	Phoenix	UNT To Yellow Branch	III	RPW	43	3	6	105	627	NA	NA	0	
Harford	52	LNMA086B <sup>13</sup>	LNMAW044B	O-C	1	P	20.2	60	39.5599/-76.4921	Jarrettsville	UNT to West Branch Winters Run	IV-P	RPW	44	12	6	100	595	NA	NA	0	
Harford	53	LNMA060B	No Associated Wetlands	O-C	1	E	21	61	39.5006/-76.6704	Jarrettsville	UNT To West Branch Winters Run	IV-P	NRPW	45	5	3	136	274	NA	NA	0	
<b>Total Impacts<sup>15</sup></b>																	<b>4,668</b>	<b>46,403</b>	<b>184,554</b>	<b>2,985</b>	<b>0</b>	
<b>Total MDE Impacts (HDD Implemented at Little Gunpowder Falls-Completed)<sup>16</sup></b>																	<b>4,275</b>	<b>45,386</b>	<b>184,554</b>	<b>2,985</b>	<b>0</b>	

LEGEND:

AR = Access Road      HDD = Horizontal Directional Drill      O-C = Open Cut      P = Perennial; I = Intermittent; E = Ephemeral      TOB = Top-of-Bank      UNT = Unnamed Tributary  
CWA = Construction Work Area      MP = Milepost      OHWM = Ordinary High Water Mark      TC = temporary bridge for access road

NOTES:

Streams identified within the Line MB Extension Project survey corridor are not designated as Tier II or Tier III streams by the Code of Maryland Regulations (COMAR) Sections 26.08.02.04-1. As outlined in the COMAR, all waterbodies not listed as Tier II or Tier III waters are Tier I. As such, all waterbodies identified within the Line MB Extension Project Survey Corridor are Tier I streams. However, the proposed Project will cross Tier II watersheds. Columbia will utilize enhanced BMPs as required for construction activities in Tier II watersheds. Examples of enhanced BMPs include accelerated stabilization, enhanced scheduling (e.g., reviewing the weather forecast to avoid work during times of high sediment transport risk), enhanced inspections, and using super silt fence in place of silt fence. Enhanced BMPs have been incorporated into the Project's site-specific Maintenance of Stream Flow (MOSF) drawings which are included.

<sup>1</sup>Designated Water Uses as defined by Code of Maryland Regulations (COMAR) Sections 26.08.02.02, 26.08.02.02-1, and 26.08.02.08. Waterbodies within the Line MB Extension Project survey corridor have been identified as Use III (nontidal cold water), Use III-P (nontidal cold water and public water supply), or Use IV-P (recreational trout waters and public water supply).

<sup>2</sup>TNW = traditional navigable waters; RPW = relatively permanent waters that flow directly or indirectly into TNWs; NRPW = non-RPWs that flow directly or indirectly into TNWs; ISOLATE = isolated (interstate or intrastate) waters, including isolated wetlands

Table 2-2 (July 31, 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number <sup>7</sup>	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification <sup>1</sup>	Waters Type <sup>2</sup>	MOSF and Profile Drawing Sheet Number	OHWM Width <sup>3</sup> (linear ft.)	TOB Width (linear ft.) <sup>3</sup>	Temporary Stream Impact Length Within CWA <sup>5,6</sup> (linear ft.)	Temporary Stream Area Impact <sup>4,5,6</sup> (sq. ft.)	Temporary Floodplain Area Impact <sup>8</sup> (sq. ft.)	Temporary Floodplain Impact <sup>8</sup> (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
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<sup>3</sup>This width may actually vary within the CWA.

<sup>4</sup>Calculated based on the jurisdictionally-based OHWM.

<sup>5</sup>Direct impacts to streams will be limited to the trenching activities associated with installation of the pipeline and to the placement of temporary bridge associated with equipment crossings of the stream during construction. Streambank contours will be restored post-construction, and no permanent impacts to the stream crossings are anticipated.

<sup>6</sup>All stream impacts are temporary.

<sup>7</sup>Crossing numbers were assigned to jurisdictional wetlands and streams that are hydrologically connected. Therefore crossing numbers located in Tables 2-1 and 2-2 are the same for some wetlands and streams, and may correspond to multiple features. Features were assigned crossing numbers if they are located within the proposed workspace corridor.

<sup>8</sup>Floodplain impacts were calculated within the Federal Emergency Management Agency (FEMA) 100-year floodplain.

<sup>9</sup>This stream is located within an access road corridor and will not be impacted by the project as it flows under an existing paved roadway.

<sup>10</sup>There will be no excavation within this floodplain as impacts are due to an access road.

<sup>11</sup>Stream impact eliminated by removal of AR-1790 as included in Permit Modification A (August 1, 2014).

<sup>12</sup>Floodplain impacts associated with AR-1810 modified in Permit Modification A (August 1, 2014).

<sup>13</sup>Stream impacts modified in Permit Modification A (August 1, 2014).

<sup>14</sup>Impacts have been reduced since the June 1, 2015 public notice as a result of additional avoidance and minimization measures.

<sup>15</sup>Total Impacts includes all impacts regulated by the Maryland Department of Environment (MDE) and/or the United States Army Corps of Engineers (USACE).

<sup>16</sup>Total MDE Impacts include only impacts regulated by the Maryland Department of Environment (MDE). Ephemeral channels are not regulated by MDE and ephemeral impacts have been removed.