

**U.S. Army Corps  
of Engineers**

Baltimore District

# Public Notice

In Reply to Application Numbers:

**CORPS #** CENAB-OP-RMN (NiSource/Columbia Gas Transmission/  
Line MB Extension Project) 2012-61660-M04

**MDE, Nontidal Wetlands and Waterways #** 12-NT-0433/201261660; AI 138964



**Maryland Department of  
the Environment**

PN# 13- 21

COMMENT PERIOD: April 15, 2013 through June 7, 2013

THE PURPOSE OF THIS JOINT PUBLIC NOTICE IS TO ANNOUNCE THE SCHEDULING OF TWO JOINT PUBLIC HEARINGS, AND TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT PERMITS WILL BE ISSUED. THE HEARINGS WILL BE HELD AT THE FOLLOWING TIMES AND LOCATIONS:

**TUESDAY, MAY 21, 2013**

**Fallston High School, Cafeteria**

2301 Carrs Mill Road

Fallston, MD 21047

410-638-4120

6:00 pm-7:00 pm Poster Session

7:00 pm Public Hearing

**THURSDAY, MAY 23, 2013**

**Stevenson University, Owings Mills Campus**

Rockland Center, Banquet Room

10949 Boulevard Circle

Owings Mills, MD 21117

6:00 pm-7:00 pm Poster Session

7:00 pm Public Hearing

The US Army Corps of Engineers, Baltimore District (COE) and the Maryland Department of the Environment (MDE) joint public hearing provide members of the public the opportunity to present views, opinions, and information which will be considered by the COE and MDE in evaluating the permit application. The purpose of the hearing is for the COE and MDE to receive oral or written comments that will enable them to evaluate the impacts of the proposed project on the public interest. All interested parties, including representatives of Federal, State, and local governments and private individuals and organizations, are invited to be present or to be represented. Each will be given an opportunity to express their views regarding the proposed project.

Prior to each public hearing, from 6:00 pm to 7:00 pm, a poster session will be held where the public will have an opportunity to review exhibits and ask general questions of the applicant, NiSource/Columbia Gas, and their representatives. Representatives from the COE and MDE will also be available during the poster session. Beginning at 7:00 pm, the formal public hearing will begin with agency statements, followed by public testimony. Please note that a time limit of three minutes per speaker may be set, depending on the number of speakers, to ensure that all interested parties have an opportunity to voice their views. The public hearings will be recorded and transcribed.

Anyone who is hearing impaired and/or is non-English speaking; who wishes to attend the public hearings should notify Ms. Abbie Hopkins at 410-962-6080 or in writing to her address below. All requests for an oral, sign language, or non-English language interpreter must be received by May 3, 2013. To the extent possible and feasible, an interpreter will be provided.

The COE and MDE have received and are evaluating a joint permit application as described below for Department of the Army authorization pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344) and State authorization pursuant to Title 5, Subtitle 5 (Waterway Construction) and Title 5, Subtitle 9 (Nontidal Wetlands) of the Environment Article, Annotated Code of Maryland.

**APPLICANT:** NiSource/Columbia Gas Transmission

Attn: Ms. Jennifer Franco

1700 MacCorkle Avenue, SE

Charleston, West Virginia 25314

**LOCATION:** The proposed project begins at the Owings Mills Metering and Regulating (M&R) Station south of Owings Mill Road and west of Reisterstown Road in Baltimore County, and terminates at the existing Rutledge Compressor Station off of Rutledge Road in Harford County. Waterways that are to be impacted include: the Gwynns Fall and its un-named tributaries, un-named tributaries to the North Branch of the Jones Falls, Beaver Dam Run, Baisman Run and its un-named tributaries, Oregon Branch and its un-named tributaries, Western Run and an un-named tributary, Gunpowder Falls and its un-named tributaries, un-named tributaries to Carroll Branch, Parker Branch and its un-named tributaries, un-named tributaries to Yellow Branch, and an un-named tributary to West Branch, and their adjacent wetlands. These streams are classified by the State of Maryland as Use III or IV trout waters.

**WORK:** Columbia Gas Transmission, LLC (Columbia) proposes to construct the Line MB Extension Project which extends an existing 26 inch diameter natural gas line for approximately 21.1 miles. The pipeline will have a typical construction right-of-way (ROW) width of 75 feet, with additional, but a minimal number of, temporary workspaces and staging areas where necessary. The project will involve crossing all waterways and wetlands using open trench construction methods resulting in a total of 5,238 linear feet/57,152 square feet of temporary stream impact. The project will temporarily impact 167,109 square feet of emergent nontidal wetlands, 443 square feet of scrub-shrub nontidal wetlands, 29,429 square feet of forested nontidal wetlands, 139,249 square feet of nontidal wetland buffer, and 211,671 square feet of 100-year floodplain. To reduce impacts of pipeline construction on wetlands and waterways and to minimize the requirement for new permanent right-of-way (ROW), the project is proposed to be co-located to the extent practicable for approximately 16.5 miles of the total 21.1 miles with the existing Line MA. The project also includes two 26-inch mainline valves (MLVs) along the Line MB extension to be installed parallel to the existing MLVs on Line MA, a new bi-directional pig launcher/receiver, with valves and fittings, to be installed at the Owings Mills M&R Station, and a second bi-directional pig launcher/receiver is proposed at the Rutledge Compressor Station.

There will be wetland areas within the project's permanent ROW which will require maintenance to prevent the reestablishment of woody vegetation. This conversion to emergent wetlands is considered to be a permanent wetland impact which will total 761 square feet of scrub-shrub wetlands and 35,288 square feet of forested wetlands for a total of 0.83 acres. The applicant is required to mitigate for these permanent wetland impacts. There will also be permanent impacts to 31,151 square feet of 25-foot wetland buffer.

The applicant has submitted a preliminary, conceptual mitigation plan to compensate for the proposed, unavoidable permanent impacts to approximately 0.83 acres of nontidal wetlands. All temporary impacts to wetlands and streams are to be restored upon completion of the project. The wetland mitigation proposal is to create 0.83 acre of nontidal, forested wetlands on the Peige Property located at the corner of Carroll Island Road and Luthardt Road at Middle River, Baltimore County, Maryland. Stream mitigation is not required since all proposed impacts are considered to be temporary.

All work will be completed in accordance with the enclosed plans.

**PURPOSE:** The project is to provide a backup gas supply source for critical markets to the areas north and east of Baltimore, Maryland, and reduce the risk of unscheduled service interruptions as well as allow for routine facility maintenance without interrupting customer supply.

**WRITTEN COMMENTS:** To be included in the official record, written comments and information provided by interested parties must be received by the COE and MDE by the closing date of this notice's comment period, June 7, 2013, to receive consideration. The mailing addresses for submission of written comments are:

U.S. Army Corps of Engineers  
Baltimore District  
Attn: Ms Abbie Hopkins, CENAB-OP-RMN  
P.O. Box 1715  
Baltimore, Maryland 21203-1715

Maryland Department of the Environment  
Wetlands and Waterways Program  
Attn: Ms. Cheryl Kerr  
1800 Washington Blvd., Suite 430  
Baltimore, Maryland 21230-1708

If you have any questions concerning this matter, please contact Ms. Abbie Hopkins, COE at (410) 962-6080 or by email at [abbie.hopkins@usace.army.mil](mailto:abbie.hopkins@usace.army.mil), and Ms. Cheryl Kerr, MDE at (410) 537-3911 or by email at [ckerr@mde.state.md.us](mailto:ckerr@mde.state.md.us).

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which may reasonably be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in general, the needs and welfare of the people.

The evaluation of the impact of the work described above on the public interest will include the application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act.

Comments are being solicited from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the COE and MDE to determine whether to issue, modify, condition or deny each agency's permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action. Comments are also used to determine the overall public interest of the proposed activity.

**SECTION 401 WATER QUALITY CERTIFICATION:** The applicant is required to obtain a Water Quality Certification, (WQC) in accordance with Section 401 of the Clean Water Act from MDE, the Section 401 certifying agency. Any written comments concerning the work described above which relate to the WQC must be received by the Wetlands and Waterways Program, Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. MDE has a statutory limit of one year from the date of this public notice to make its decision.

**COASTAL ZONE MANAGEMENT PROGRAM:** The applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with Maryland's federally-approved Coastal Zone Management Program (CZMP) as required by Section 307 of the Federal Coastal Zone Management Act of 1972. Public comments relating to consistency must be received by the Wetlands and Waterways Program, Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland, 21230-1708, within the comment period as specified above. By this public notice, the COE is requesting the State concurrence or objection to the applicant's consistency statement. It should be noted that the CZMP has a statutory limit of 6 months to make its consistency determination.

The applicant must obtain any other State and local permits/approvals which are required for the proposed activities.

A preliminary review of this application indicates that the proposed work will not affect Federal listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the requested permits.

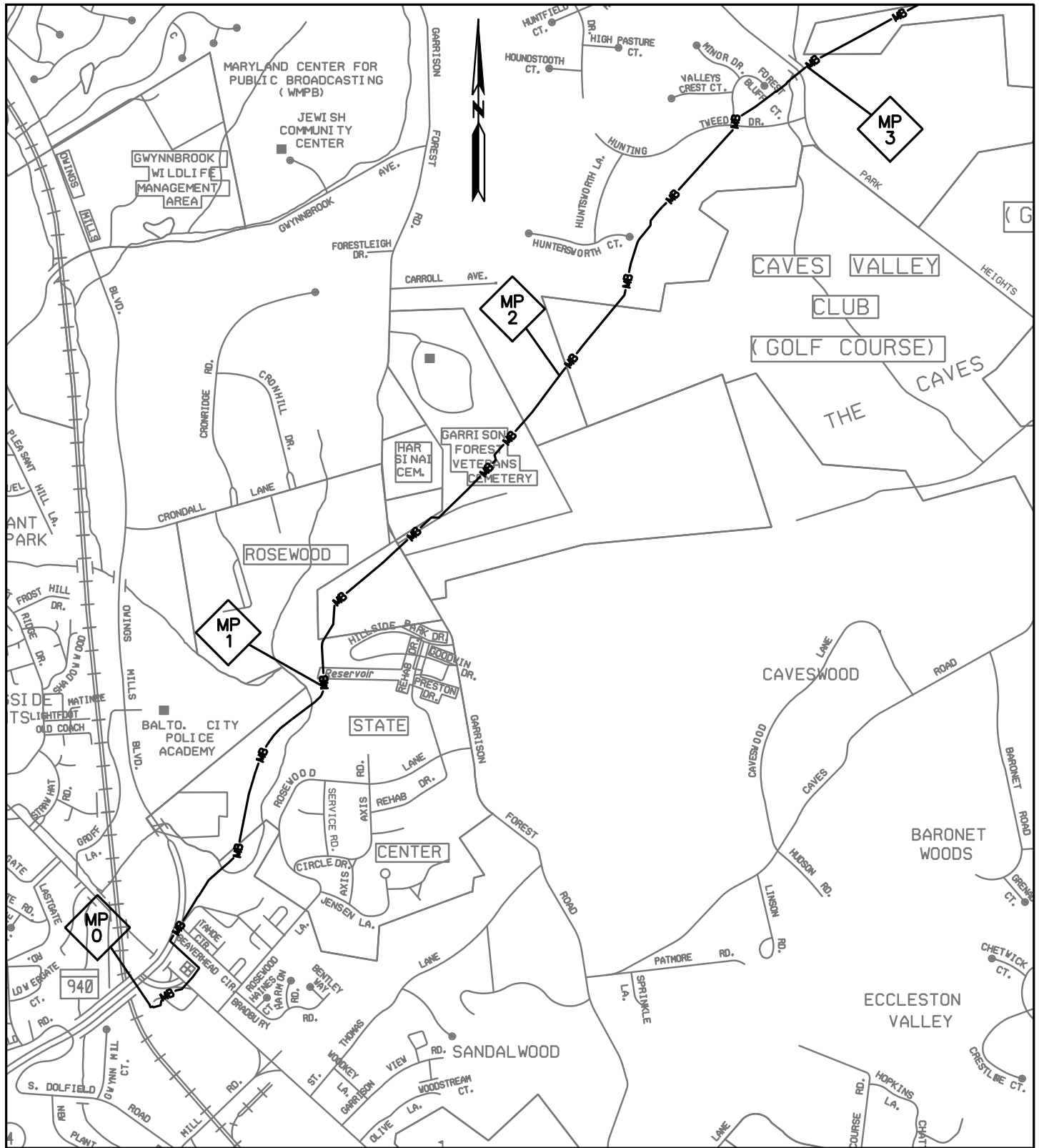
It is requested that you communicate this information concerning the proposed work to any persons known by you to be interested, but may not have not received a copy of this public notice.



Impact Plates

12-NT-0433/201261660





12-NT-0433/201261660

SHEET 1 OF 84



ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS

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

DATE:  
 NOVEMBER 2012

SCALE:  
 N. T. S.

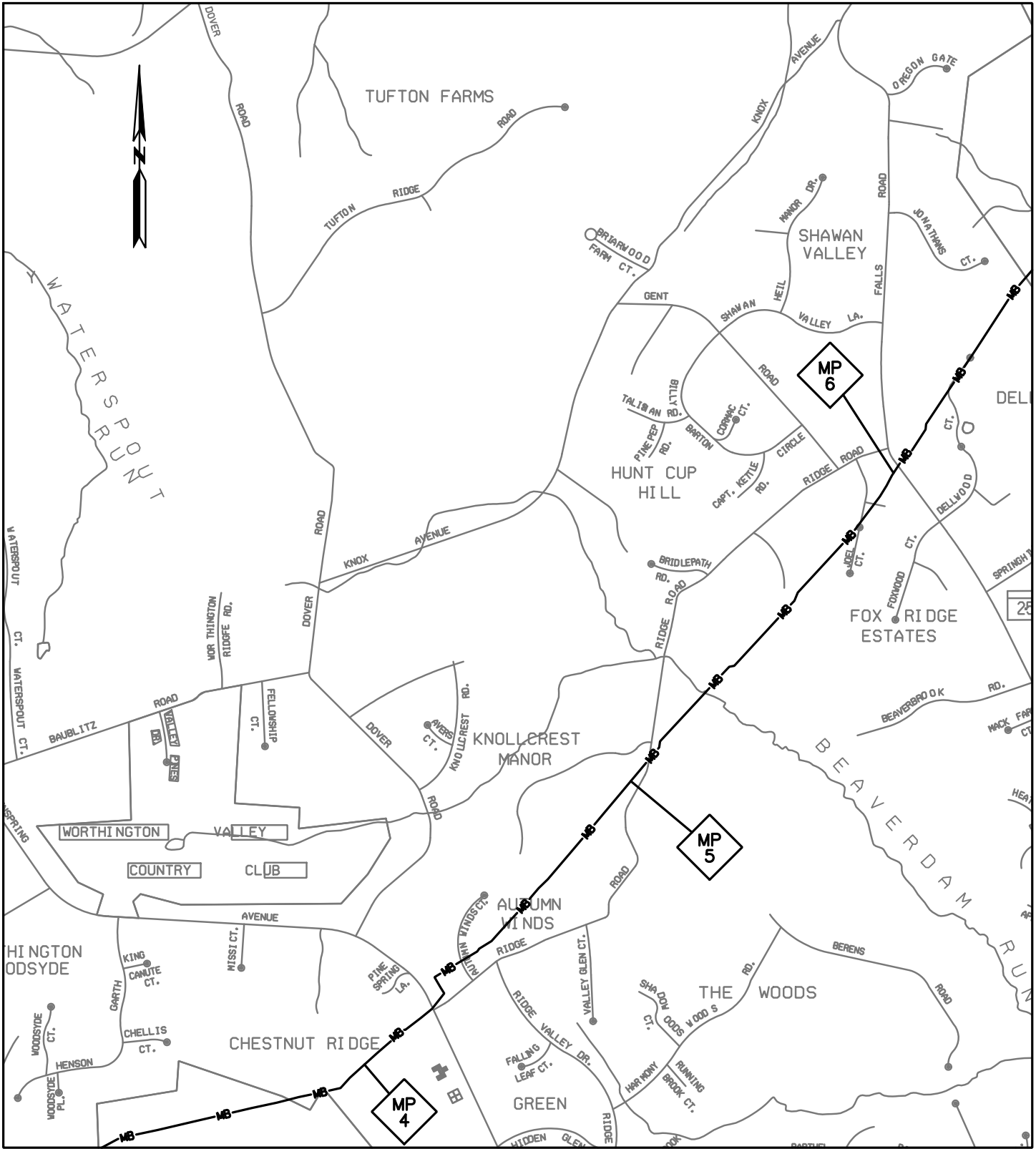
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 CSD

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

# VICINITY MAP 1

PLOTTED: 10:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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PLOTTED: '09:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
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12-NT-0433/201261660

SHEET 2 OF 84



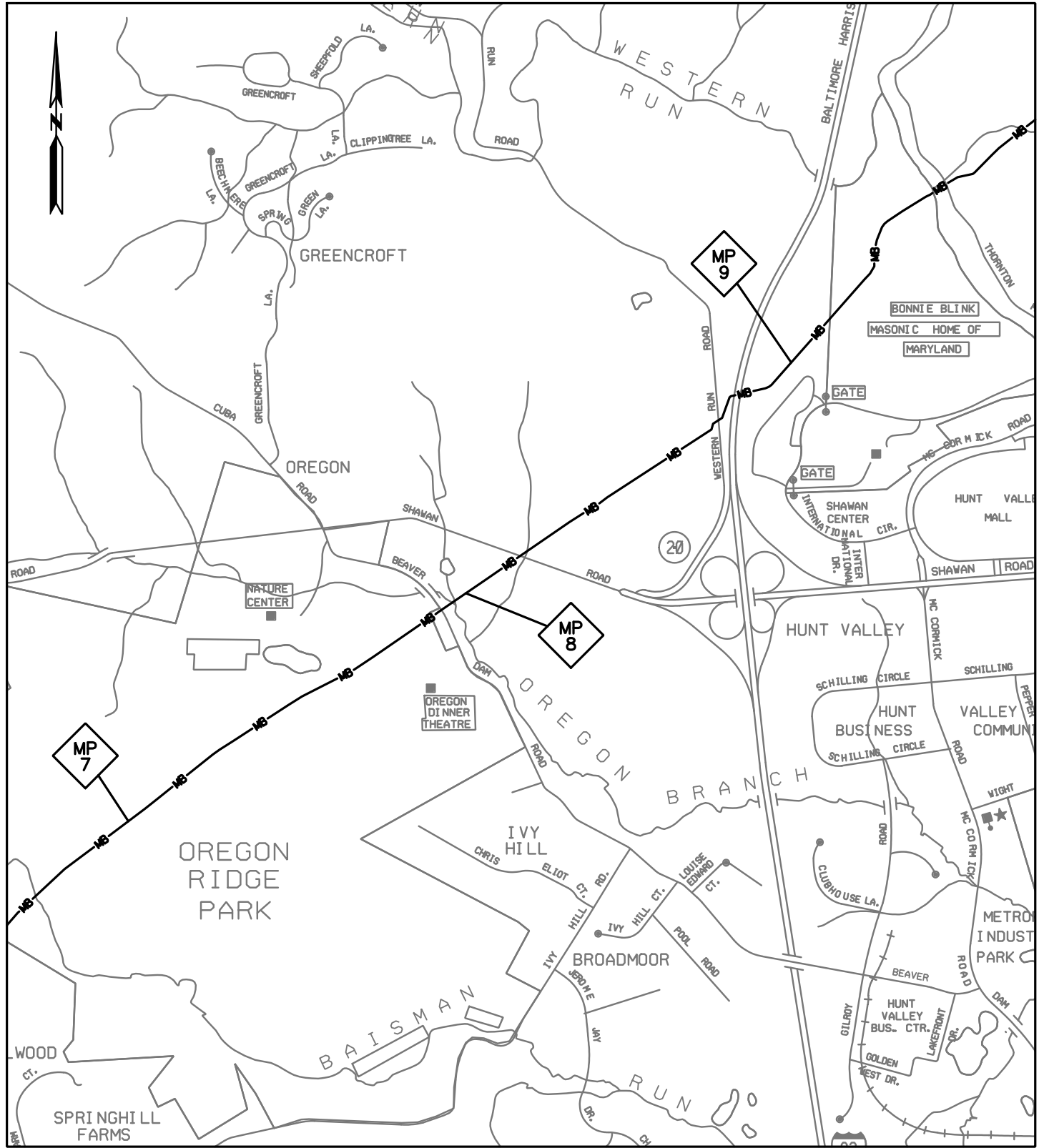
**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
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DATE:  
 NOVEMBER 2012  
 SCALE:  
 N. T. S.  
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 CSD

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

**VICINITY MAP 2**

PLOTTED: 09:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
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12-NT-0433/201261660

SHEET 3 OF 90



**ENGINEERS**  
**PLANNERS**  
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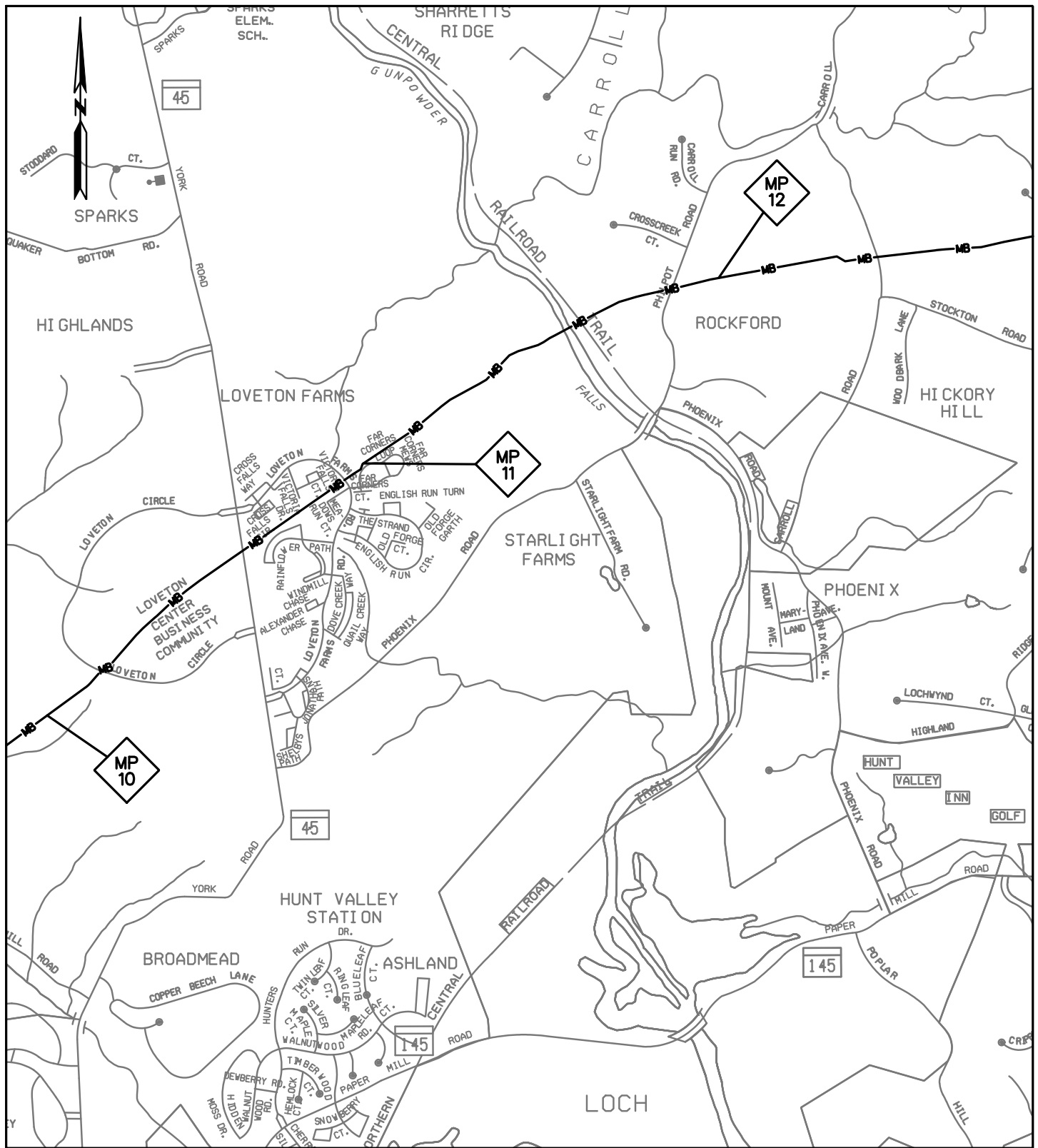
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SCALE:  
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**LINE MB EXTENSION PROJECT**  
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 CHARLESTON, WV 25314

**VICINITY MAP 3**



12-NT-0433/201261660

SHEET 4 OF 84

PLOTTED: 09:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res. Emp  
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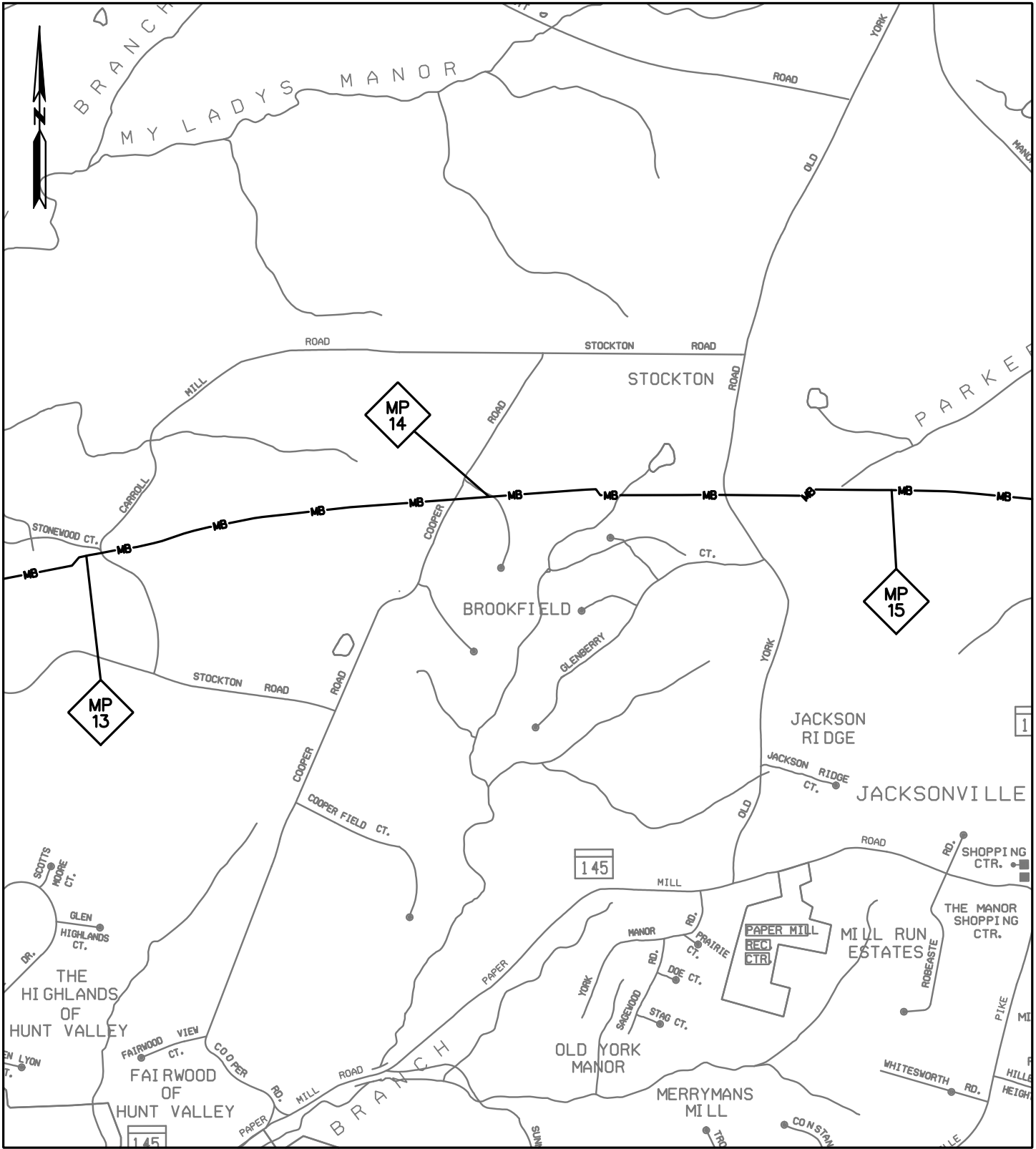
**ENGINEERS**  
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**SCIENTISTS**  
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# VICINITY MAP 4

PLOTTED: '09:56 AM on Tuesday, November 06, 2012"  
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12-NT-0433/201261660

SHEET 5 OF 84



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DATE:  
 NOVEMBER 2012

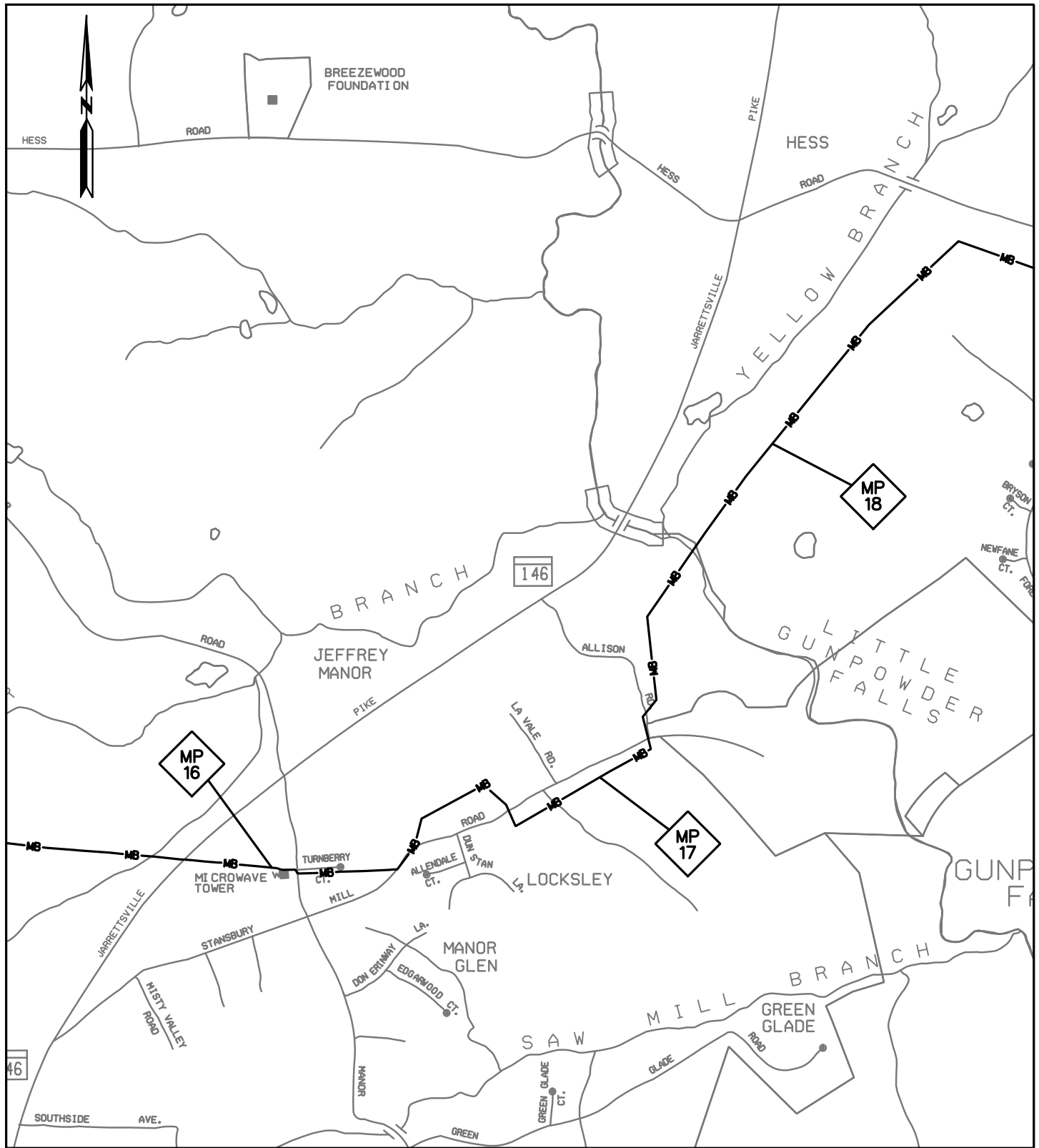
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**VICINITY MAP 5**





12-NT-0433/201261660

SHEET 6 OF 84



ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD  
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TELEPHONE: (410) 316-7800  
FAX: (410) 316-7818

DATE: REVISED  
JANUARY 2013

SCALE:  
N. T. S.

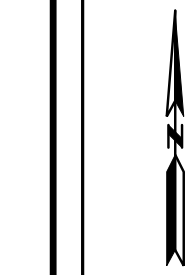
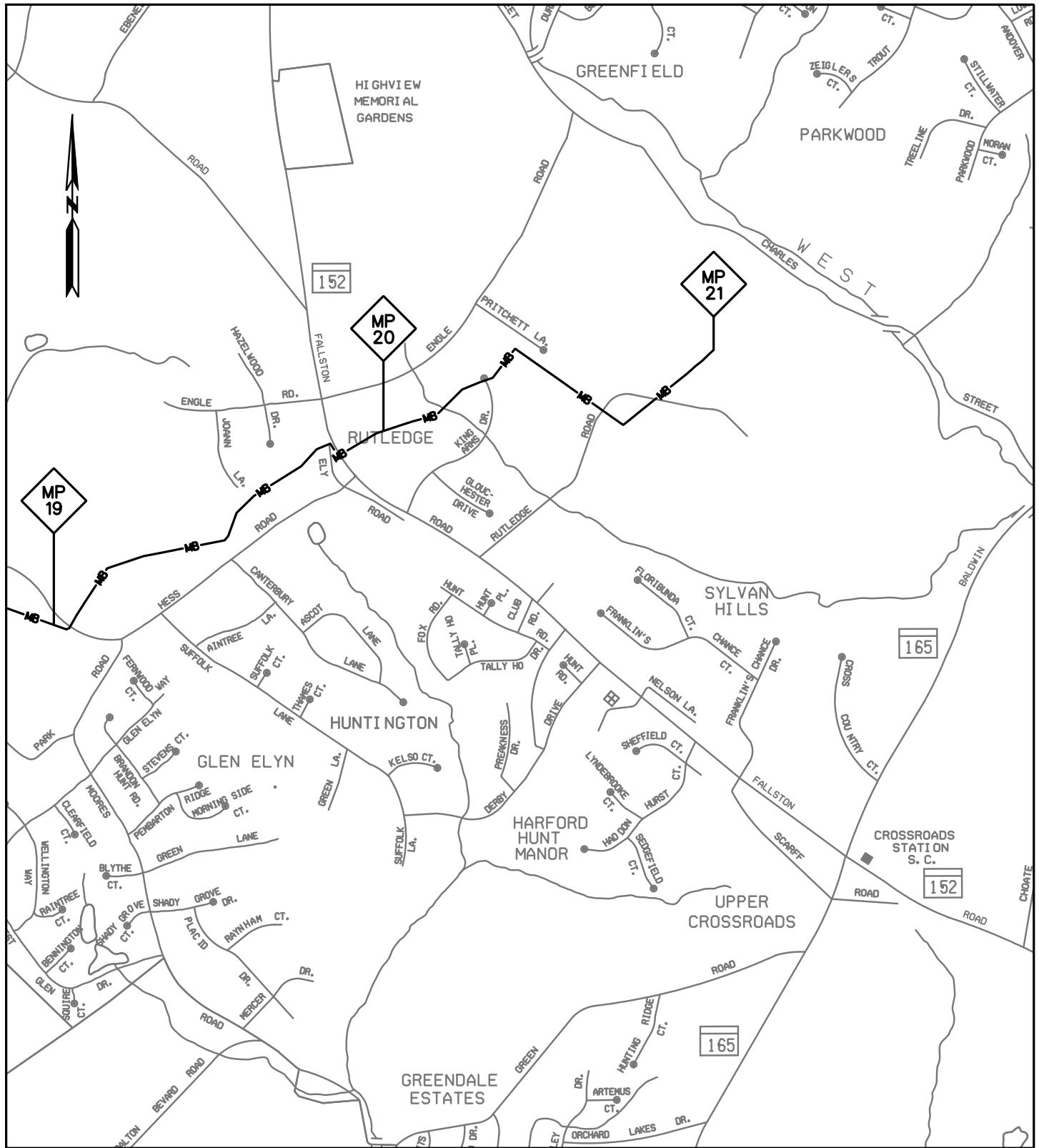
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NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
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# VICINITY MAP 6

PLOTTED: 08:53 AM on Wednesday, January 23, 2013  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\06-Plate-LINE-MB-vicinity\_map-6.dgn





12-NT-0433/201261660

SHEET 7 OF 84

PLOTTED: 09:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

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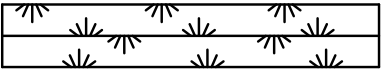
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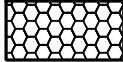
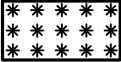

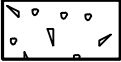


**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

# 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 84

PLOTTED: 09:56 AM on Tuesday, November 06, 2012  
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**ENGINEERS**  
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**SCIENTISTS**  
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 936 RIDGEBROOK ROAD  
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DATE:  
 NOVEMBER 2012  
 SCALE:  
 N/A  
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**LEGEND 1**  
 12-NT-0433/201261660

# LEGEND

LNMA# ###	STREAM ID's
LNMAW ###	WETLAND ID's
	MOUNTABLE BERM
	TEMPORARY ACCESS BRIDGE
	WOOD MATTING
SFCD	SILT FENCE CHECK DAM
TSOS	TEMPORARY STONE OUT STRUCTURE
	TEMPORARY EARTH DIKE
	TEMPORARY ASPHALT BERM
	SANDBAG DAM
	CLEAR WATER PIPE
FB	FILTER BAG
P	PUMP
CIP	CURB INLET PROTECTION
MIP	MEDIAN INLET PROTECTION
ROP1	ROCK OUTLET PROTECTION CLASS I
RRP	RIPRAP INFLOW PROTECTION
AGIP	AT GRADE INLET PROTECTION
	SUPER SILT FENCE
	SILT FENCE ON PAVEMENT
	SILT FENCE
	SILT FENCE DIVERSION
	INTERCEPTOR DIVERSION/SLOPE BREAKER
	PIPE SLOPE DRAIN
	STABILIZED CONSTRUCTION ENTRANCE

**NOTES:**

1. EROSION AND SEDIMENT CONTROL MEASURES ARE SUBJECT TO CHANGE AND WILL BE IMPLEMENTED IN ACCORDANCE WITH THE COUNTY APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. SILT FENCE MAY BE UPGRADED TO SUPER SILT FENCE IN ACCORDANCE WITH MARYLAND'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. SILT FENCE AND SUPER SILT FENCE PLACEMENT WILL BE INSTALLED IN ACCORDANCE WITH THE COUNTY APPROVED EROSION AND SEDIMENT CONTROL PLAN.
3. SANDBAG DAMS WILL BE INSTALLED PER MARYLAND'S STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION AND SEDIMENT CONTROL AND PLACEMENT OF SANDBAG DAM STRUCTURES WILL BE DETERMINED BASED ON FIELD CONDITIONS.
4. STREAMS WHERE THERE IS NO PERCEIVABLE FLOW AT THE TIME OF CROSSING WILL BE CROSSED USING THE OPEN-CUT CROSSING METHOD WITH NO WATER DIVERSION. A FLUME PIPE WILL BE KEPT ON SITE IF FLOW BEGINS.

PLOTTED: 11/09/12 09:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
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**ENGINEERS**  
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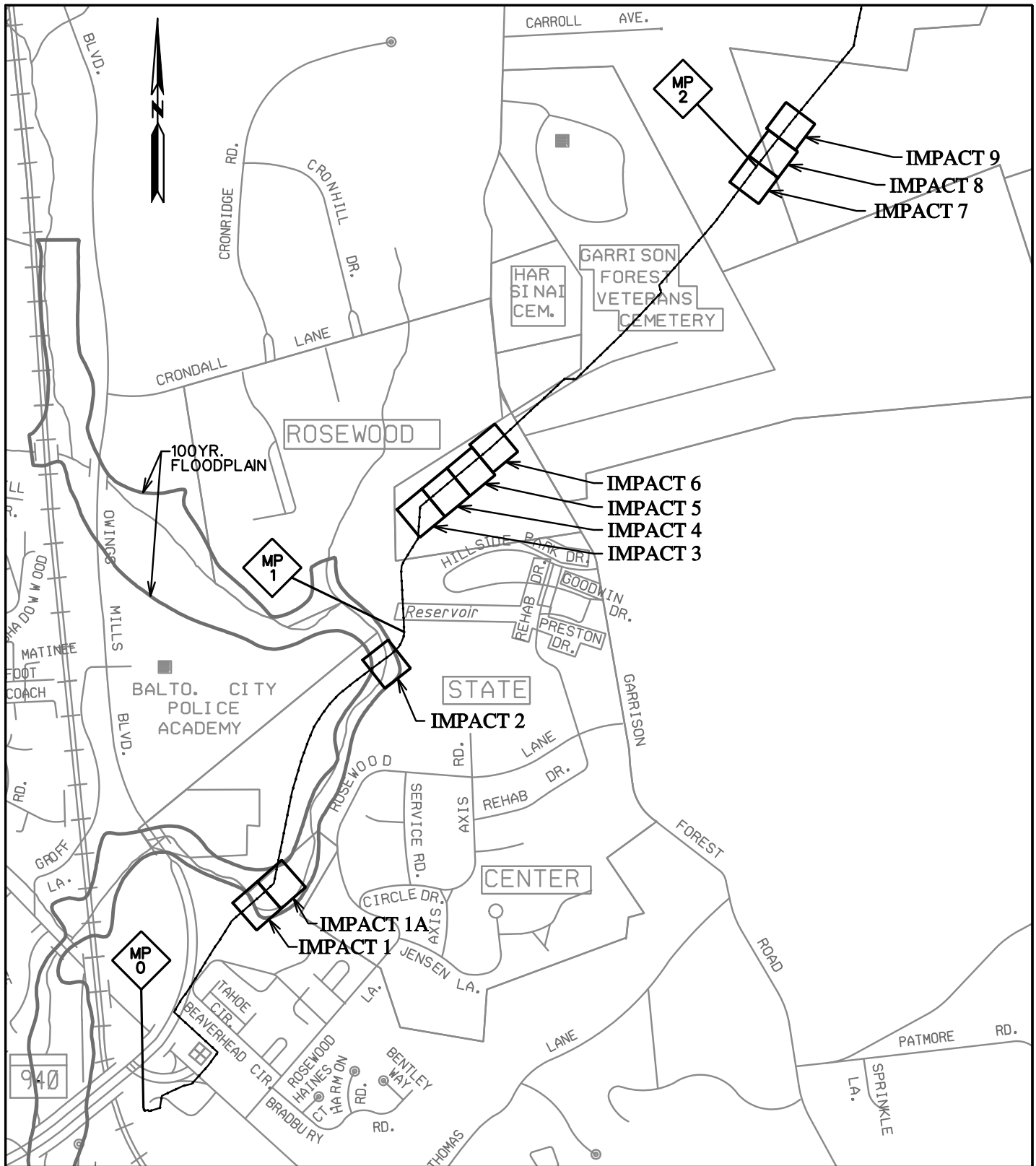
**KCI**  
 TECHNOLOGIES

936 RIDGEBROOK ROAD  
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 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE: NOVEMBER 2012
SCALE: N/A
DRAWN BY: CSD

**LINE MB EXTENSION PROJECT**  
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**LEGEND 2**  
 12-NT-0433/201261660



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SHEET 10 OF 84



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NOVEMBER 2012

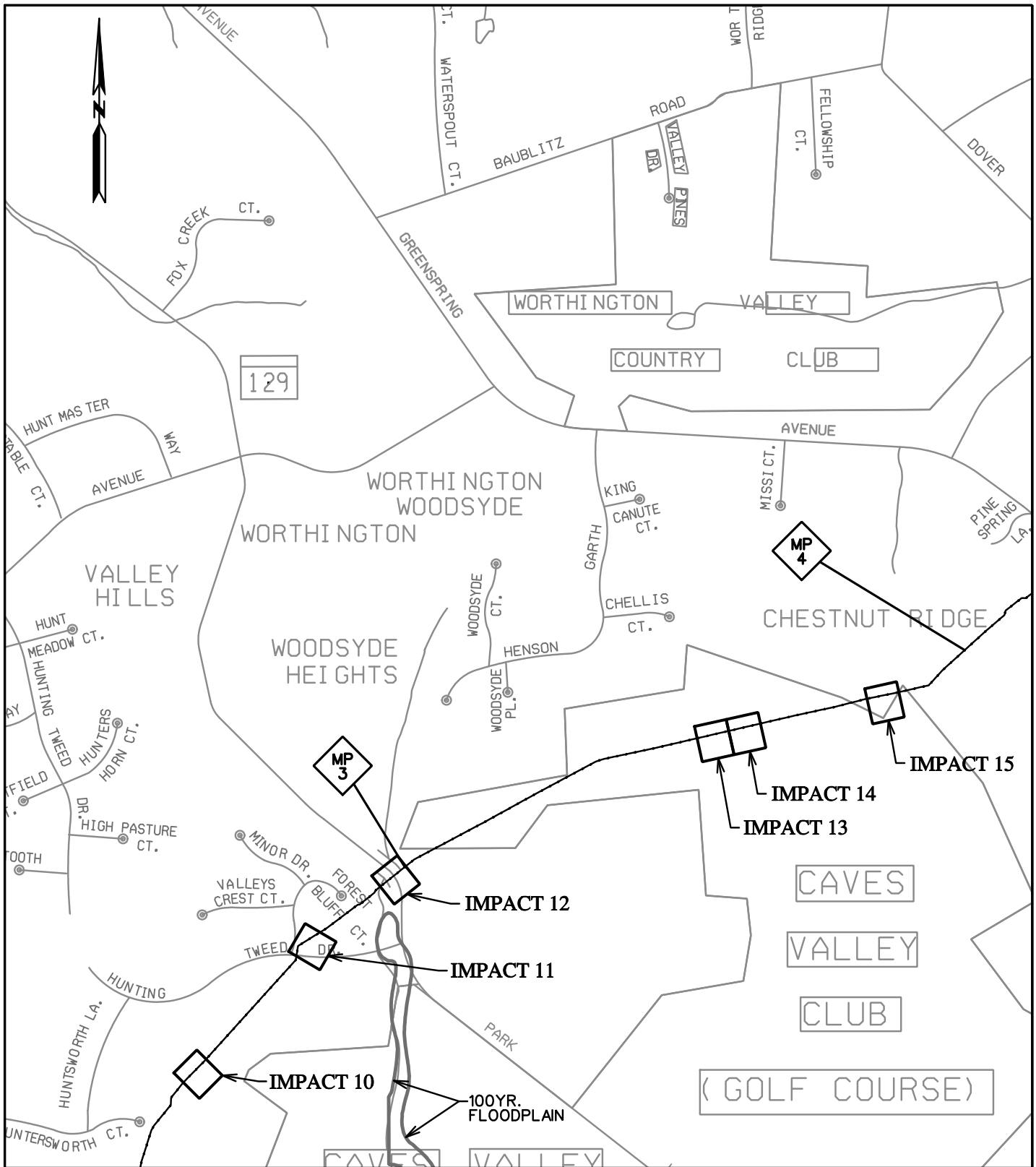
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N. T. S.

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CSD

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

# IMPACT LOCATION MAP 1

PLOTTED: 10:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\10-Plate-LINE\_MB-impact-loc\_01.dgn



12-NT-0433/201261660

SHEET 11 OF 84



ENGINEERS  
PLANNERS  
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CONSTRUCTION MANAGERS

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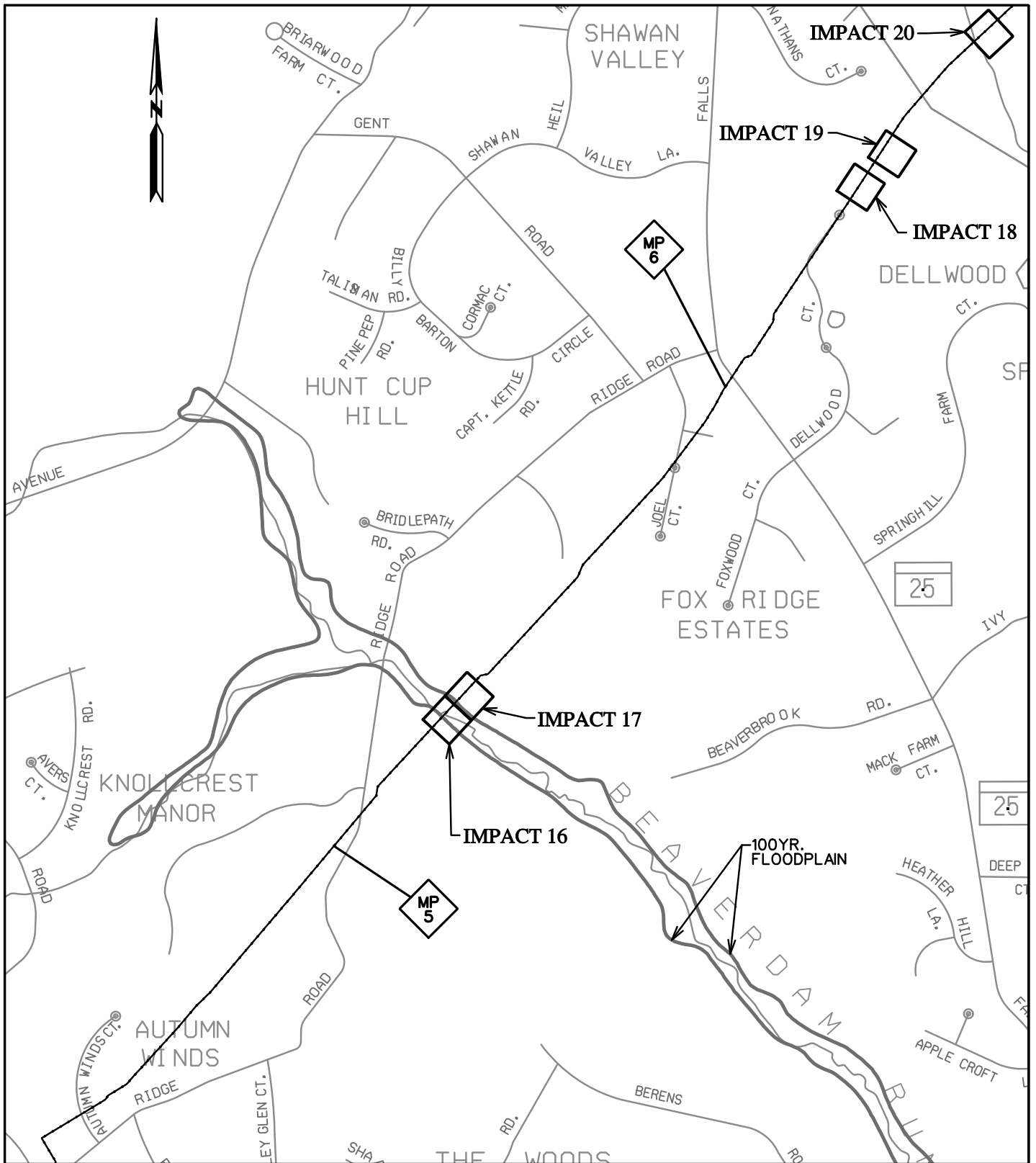
SCALE:  
N. T. S.

DRAWN BY:  
CSD

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

# IMPACT LOCATION MAP 2

PLOTTED: 09:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\11-Plate-LINE\_MB-impact-loc\_02.dgn



12-NT-0433/201261660

SHEET 12 OF 84



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SCALE:  
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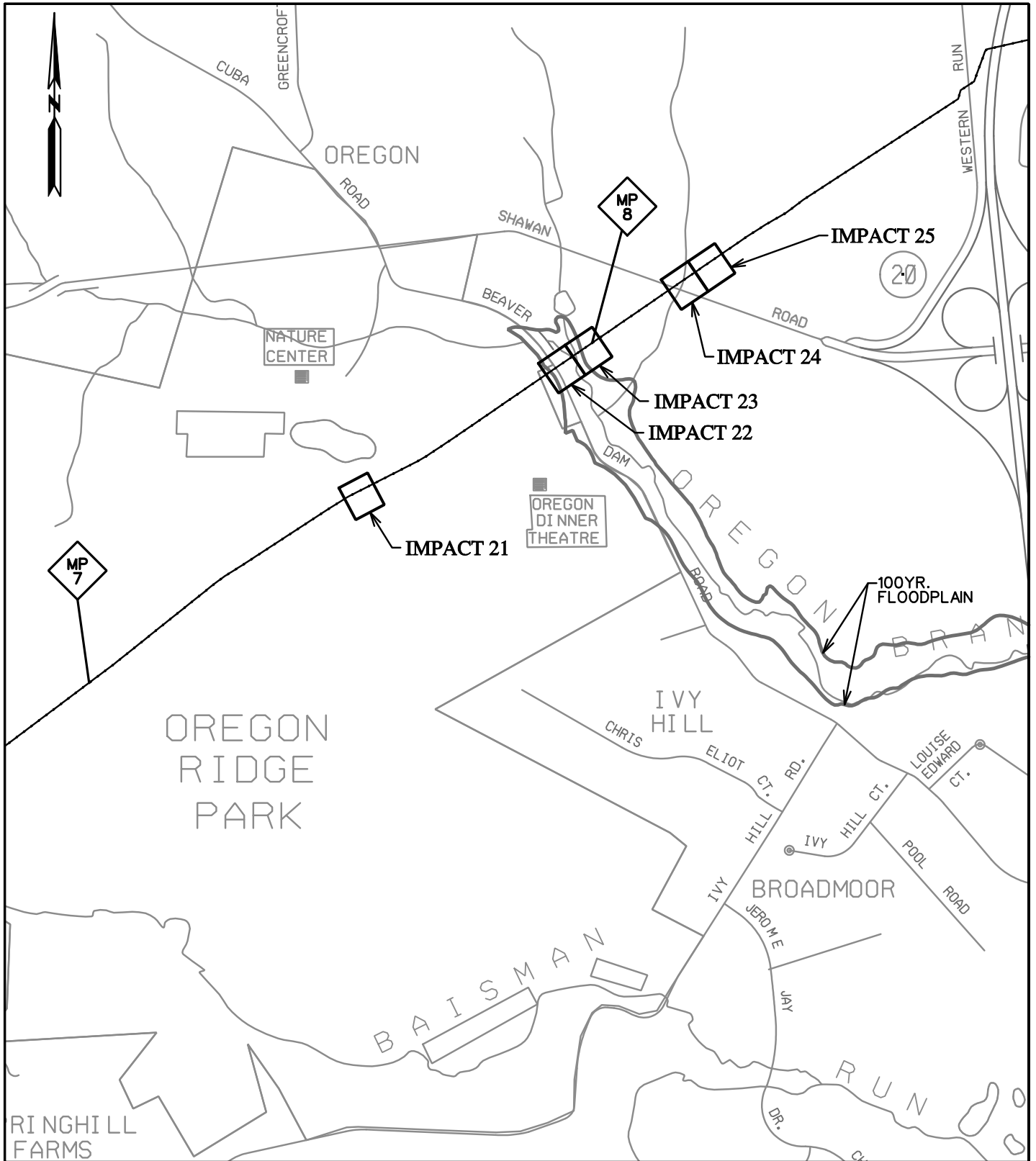
DRAWN BY:  
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# IMPACT LOCATION MAP 3

PLOTTED: 11/09/12 09:56 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\12-Plate-LINE\_MB-impact-loc\_03.dgn





12-NT-0433/201261660

SHEET 13 OF 84

PLOTTED: '09:56 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\13-Plate-LINE\_MB-impact-loc\_04.dgn



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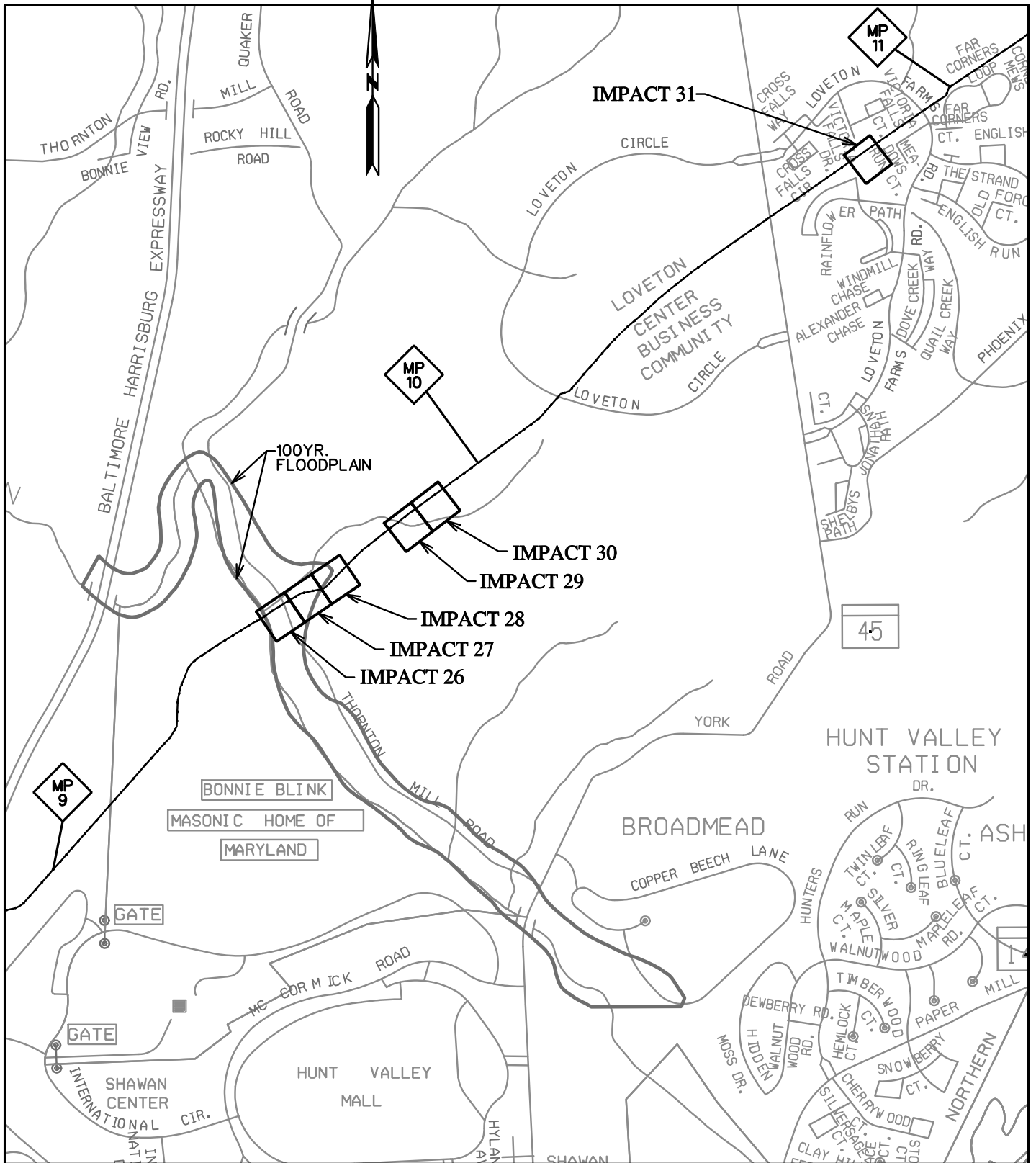
DATE:  
 NOVEMBER 2012

SCALE:  
 N.T.S.

DRAWN BY:  
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# IMPACT LOCATION MAP 4



12-NT-0433/201261660

SHEET 14 OF 84



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SCALE:  
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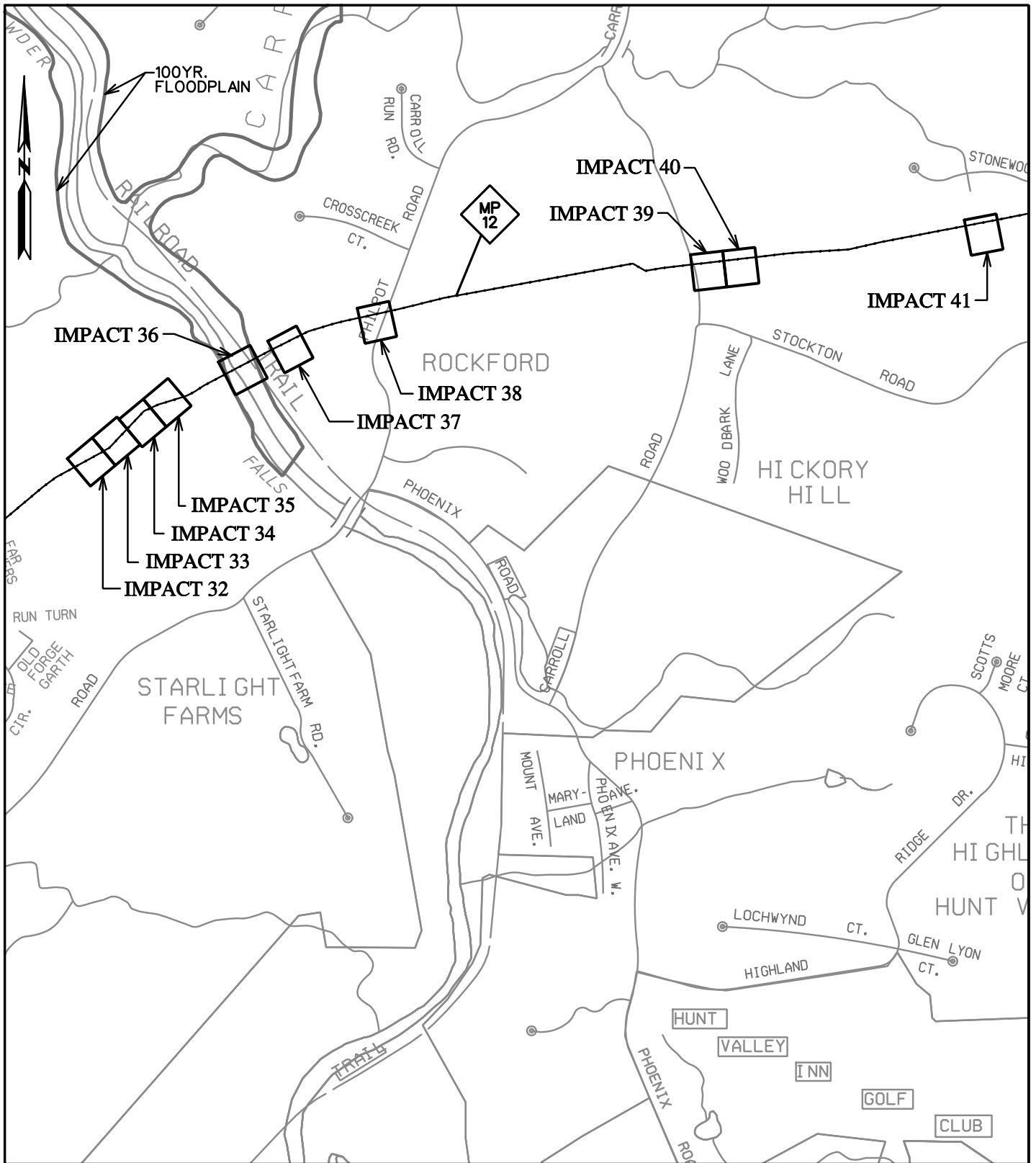
DRAWN BY:  
CSD

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# IMPACT LOCATION MAP 5

PLOTTED: 10:56 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\14-Plate-LINE\_MB-impact-loc\_05.dgn





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SHEET 15 OF 84



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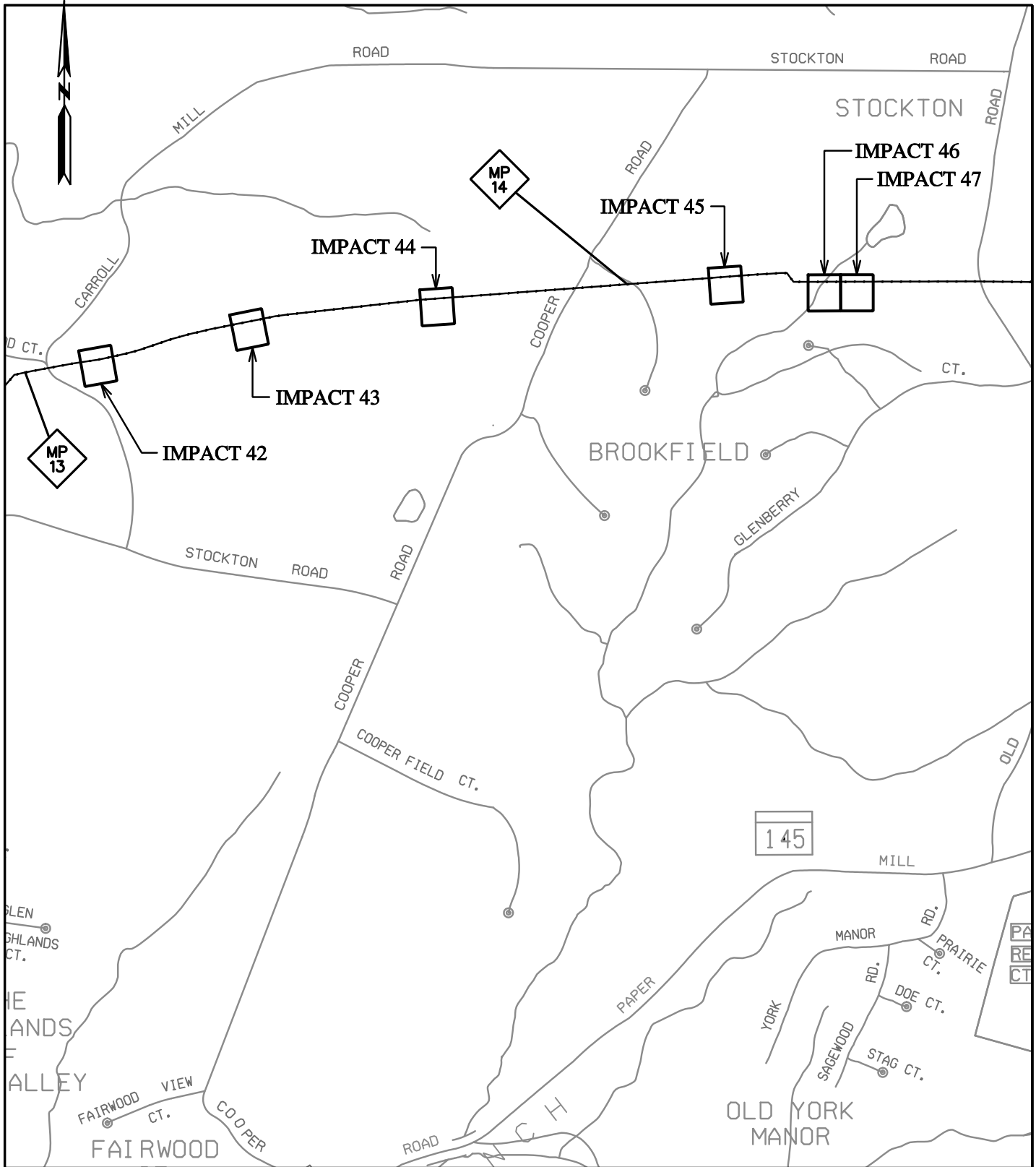
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N. T. S.

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# IMPACT LOCATION MAP 6

PLOTTED: '09:56 AM on Tuesday, November 06, 2012"  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\15-Plate-LINE\_MB-impact-loc\_06.dgn



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SHEET 16 OF 84



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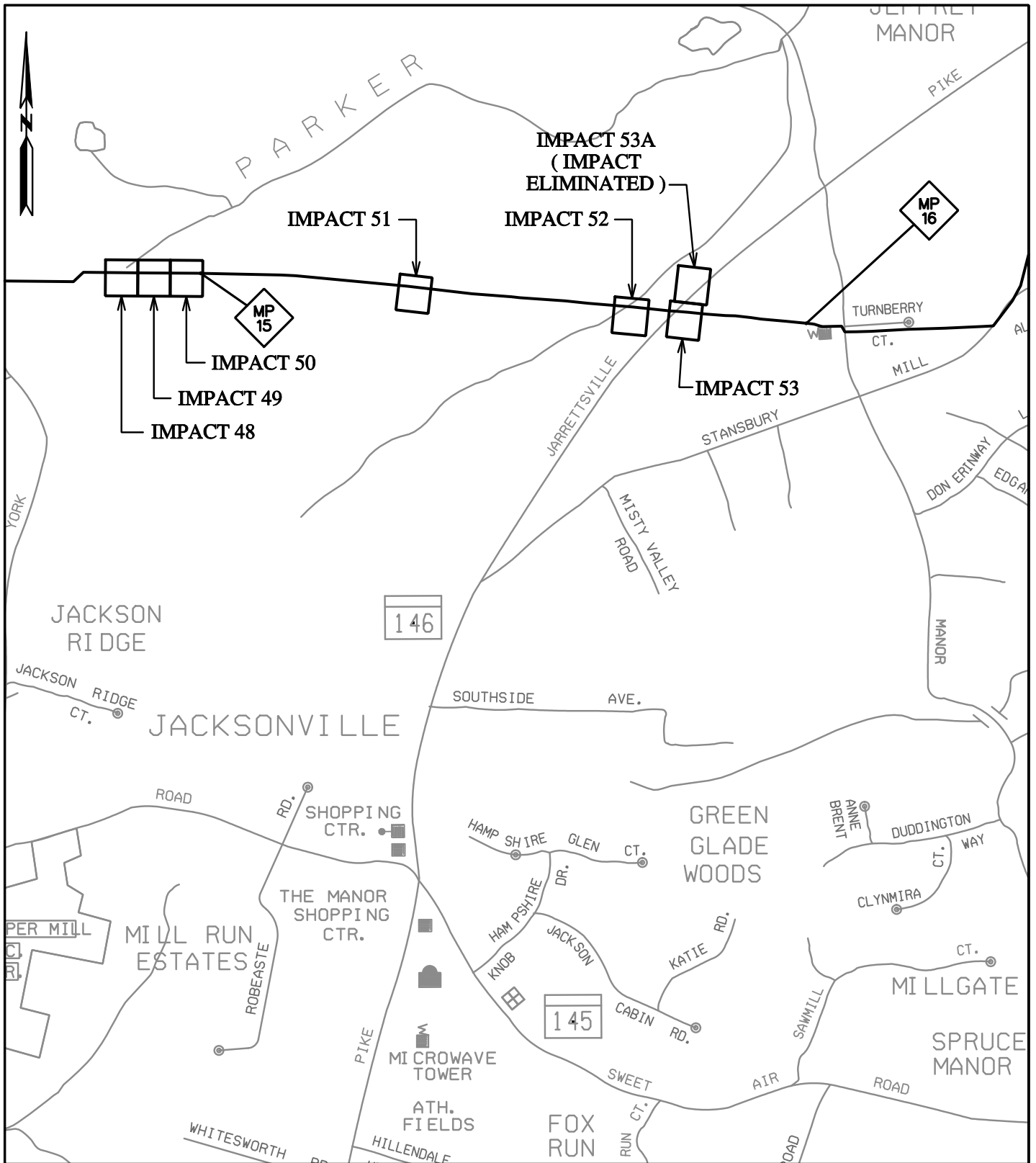
SCALE:  
N.T.S.

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**LINE MB EXTENSION PROJECT**  
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# IMPACT LOCATION MAP 7

PLOTTED: 10:56 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\16-Plate-LINE\_MB-impact-loc\_07.dgn



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SHEET 17 OF 84

PLOTTED: 08:53 AM on Wednesday, January 23, 2013  
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 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATES\17-Plate-LINE\_MB-impact-loc\_08.dgn



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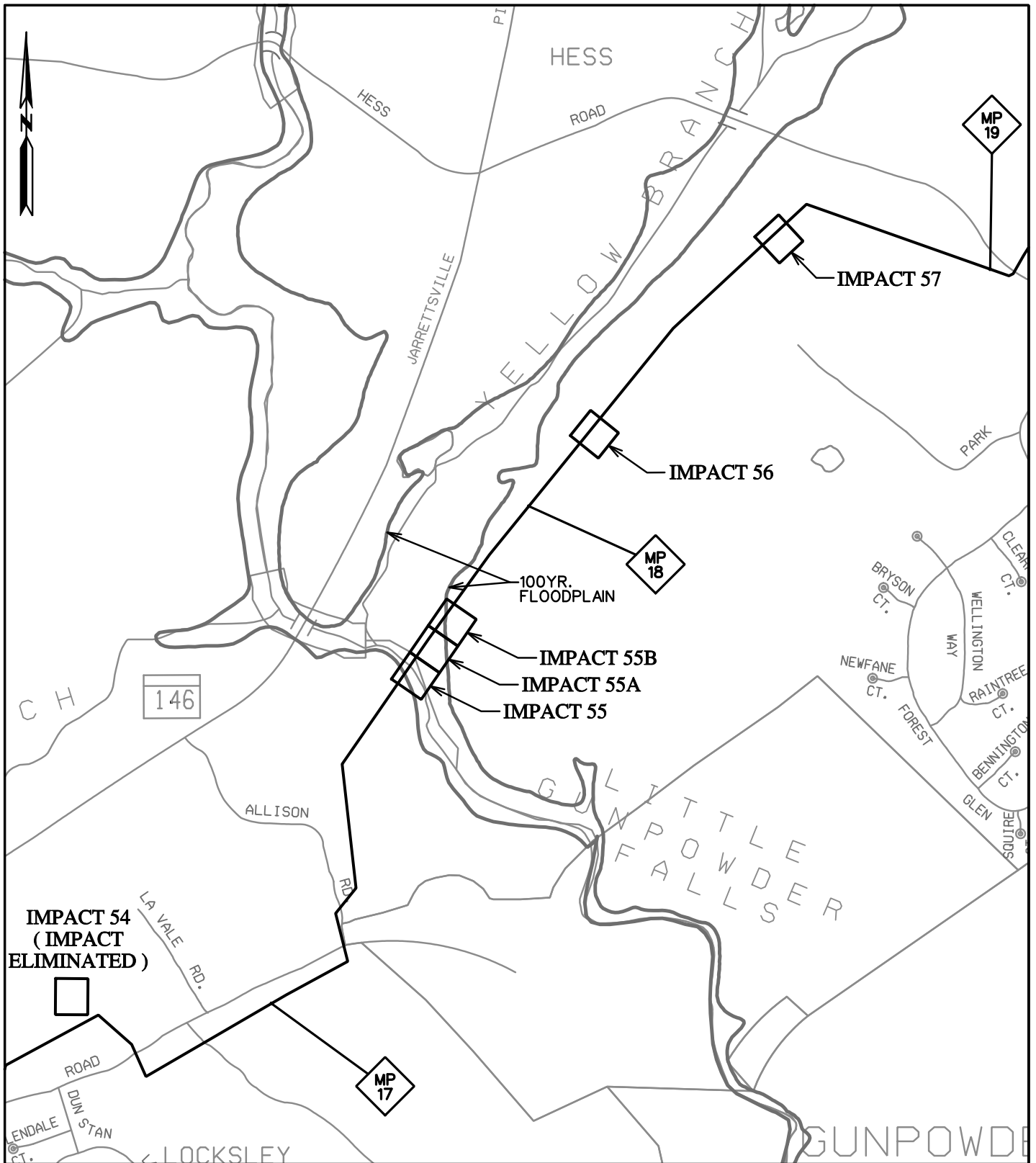
DATE: REVISED  
 JANUARY 2013

SCALE:  
 N.T.S.

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 CHARLESTON, WV 25314

# IMPACT LOCATION MAP 8



12-NT-0433/201261660

SHEET 18 OF 84

PLOTTED: 08:53 AM on Wednesday, January 23, 2013  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\18-Plate-LINE\_MB-impact-loc\_09.dgn

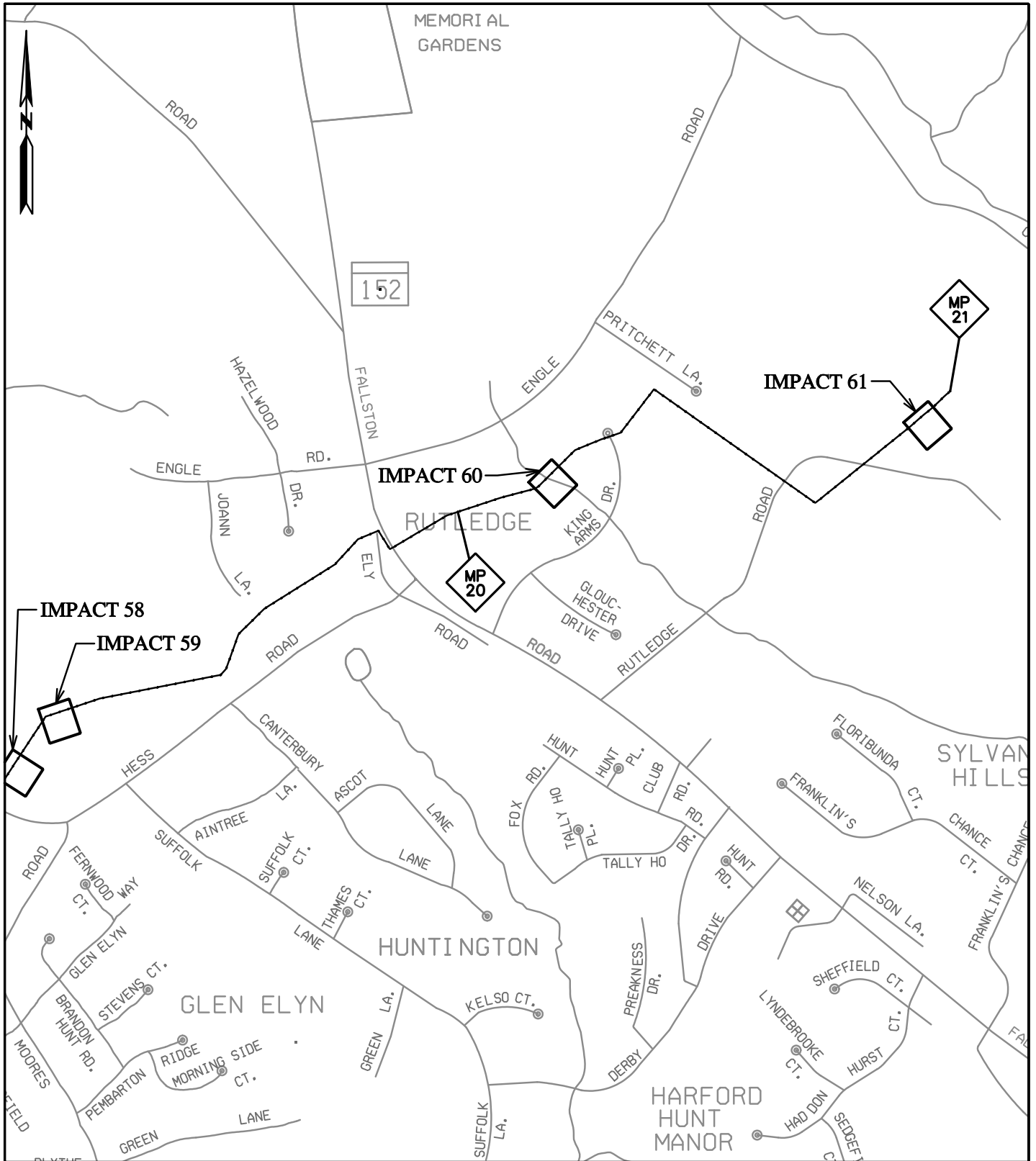


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 JANUARY 2013  
 SCALE:  
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# IMPACT LOCATION MAP 9



12-NT-0433/201261660

SHEET 19 OF 84



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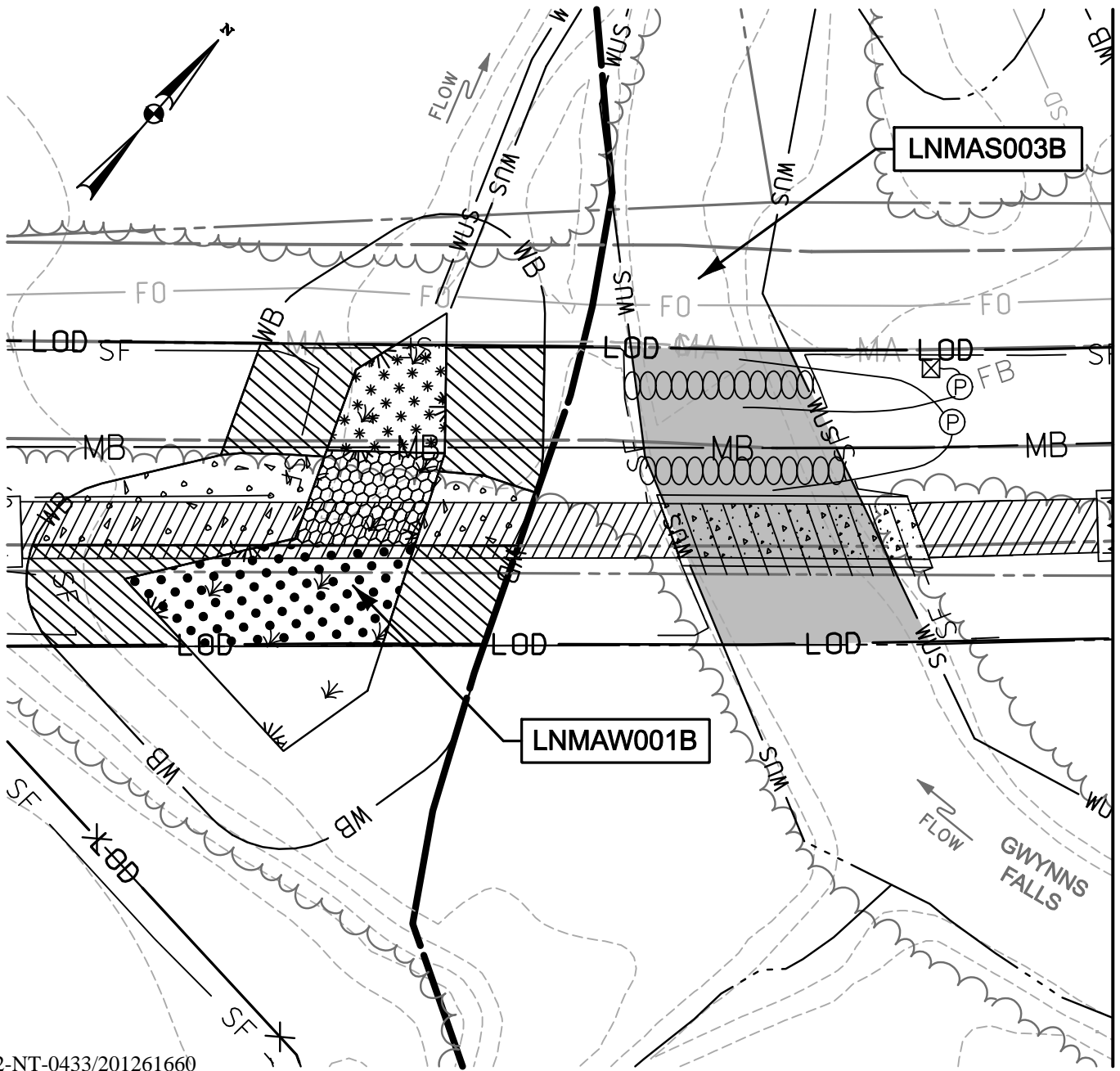
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CSD


LINE MB EXTENSION PROJECT  
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# IMPACT LOCATION MAP 10

PLOTTED: 09:56 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\19-Plate-LINE\_MB-impact-loc\_10.dgn



12-NT-0433/201261660

 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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\20-Plate-LINE\_MB-impact01.dgn



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DATE:  
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SCALE:  
 1" = 40'

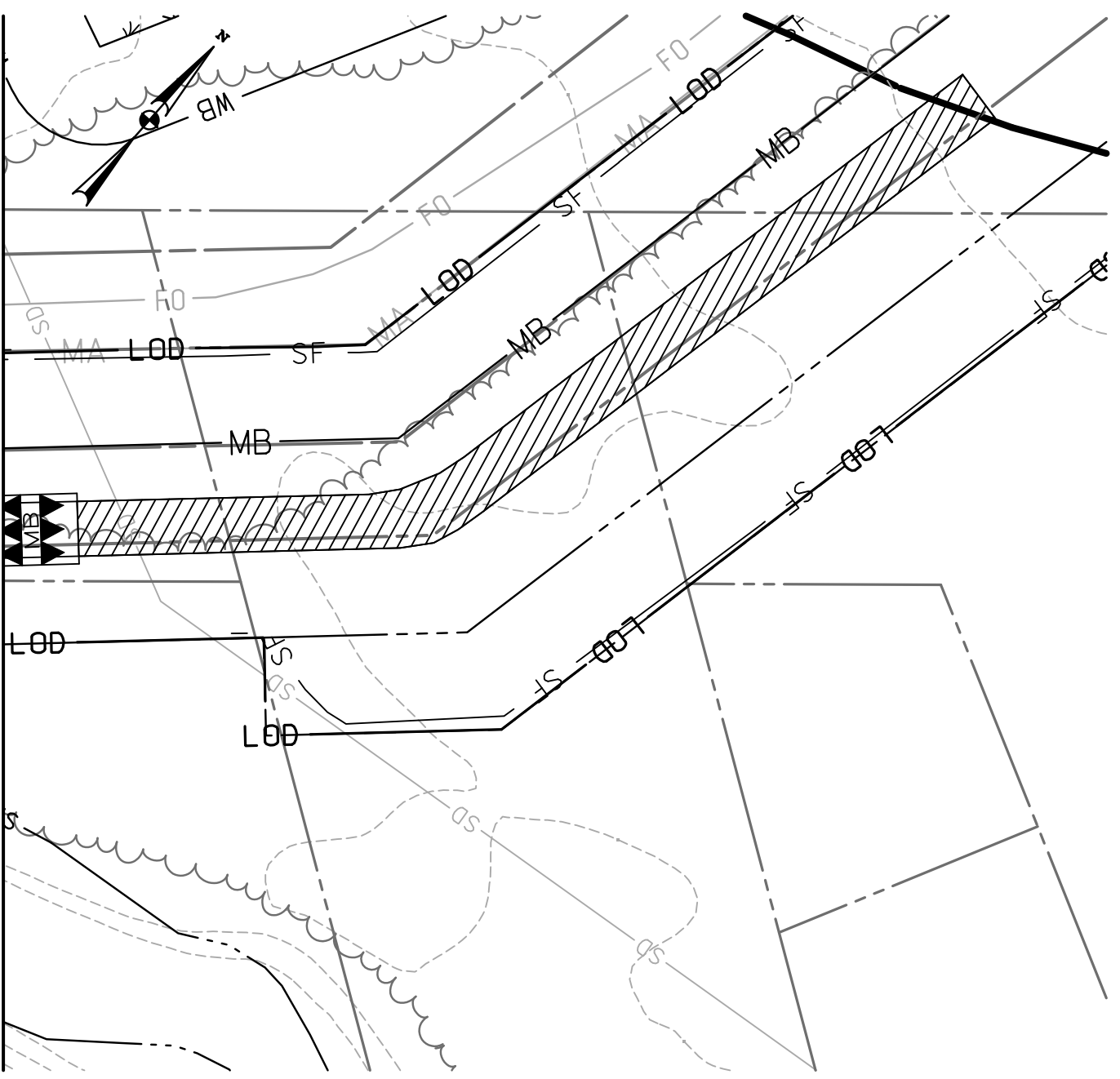
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**IMPACT 1**  
 LNMAW003B; LNMAW001B



MATCHLINE (SEE IMPACT 1)



NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.

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FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\21-Plate-LINE\_MB-impact01-A.dgn

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NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 21 OF 84



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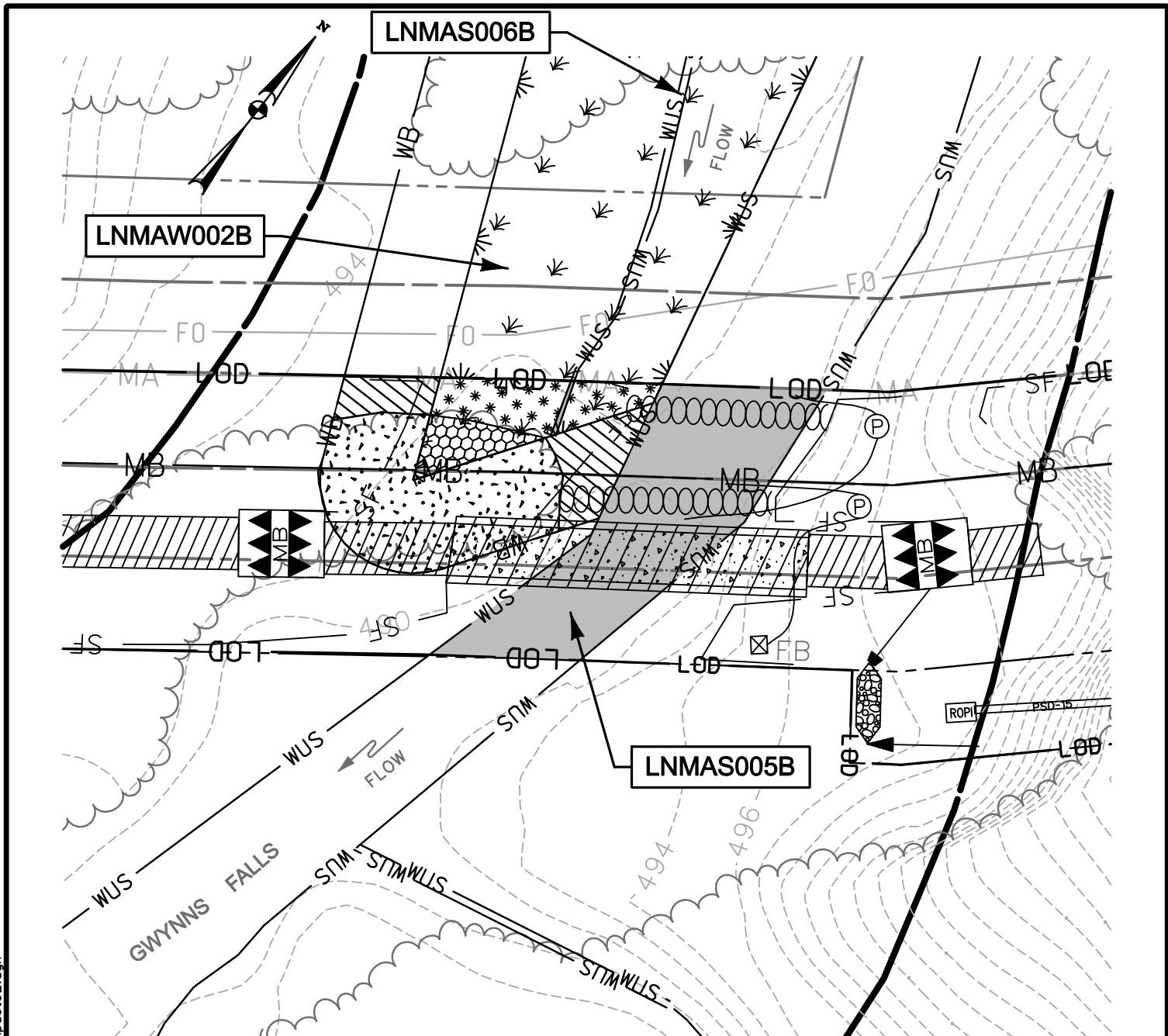
DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'


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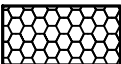
LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

**IMPACT 1A**




12-NT-0433/201261660

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

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
2 SF./ 0.00 AC.

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

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,967 SF./ 0.05 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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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DATE:  
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SCALE:  
 1" = 40'

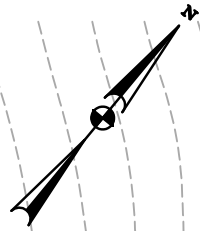
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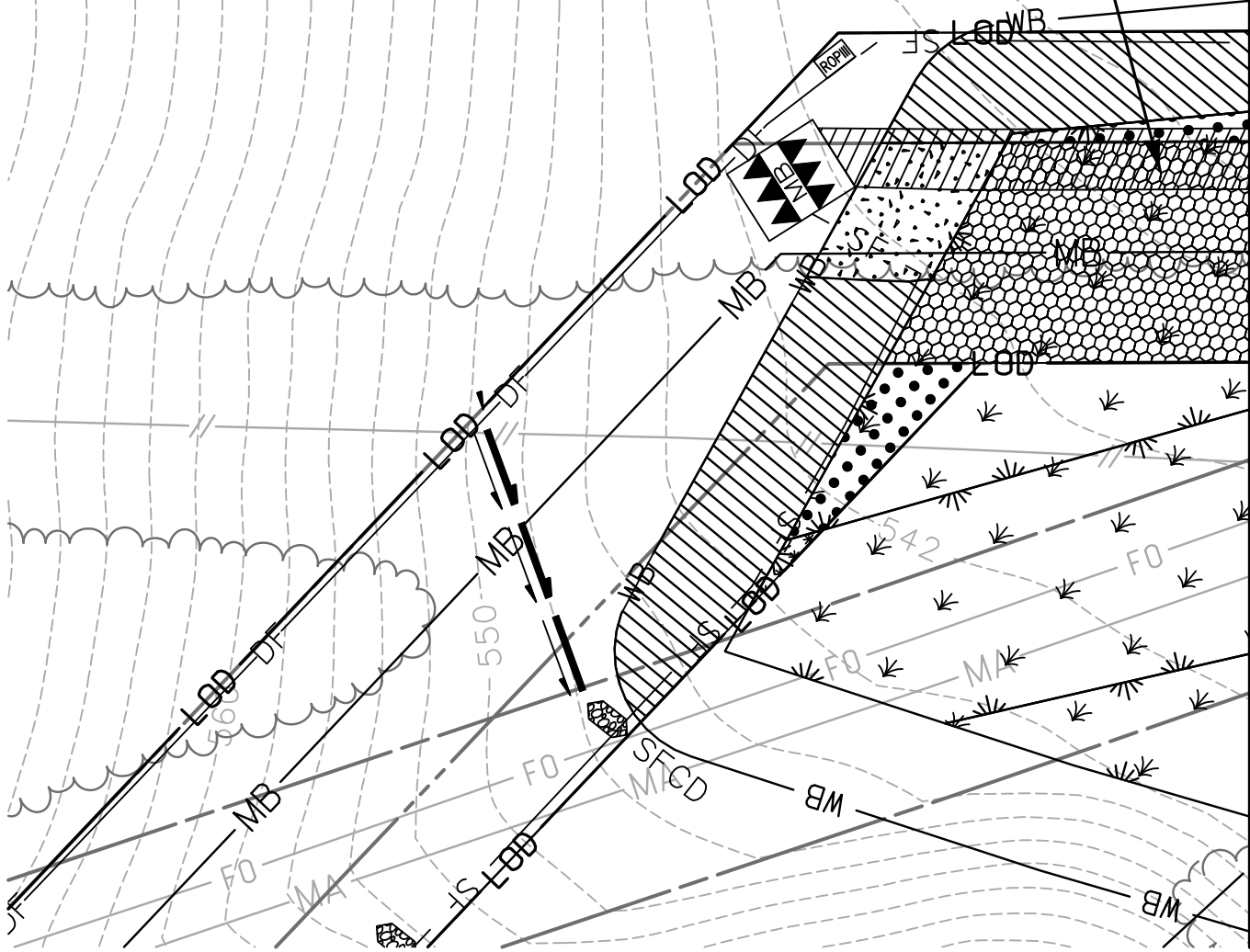
# IMPACT 2

LNMA006B; LNMA005B; LNMAW002B





LNMAW004B



MATCHLINE (SEE IMPACT 4)

12-NT-0433/201261660

 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 84

PLOTTED: 11:09:57 AM on Tuesday, November 06, 2012  
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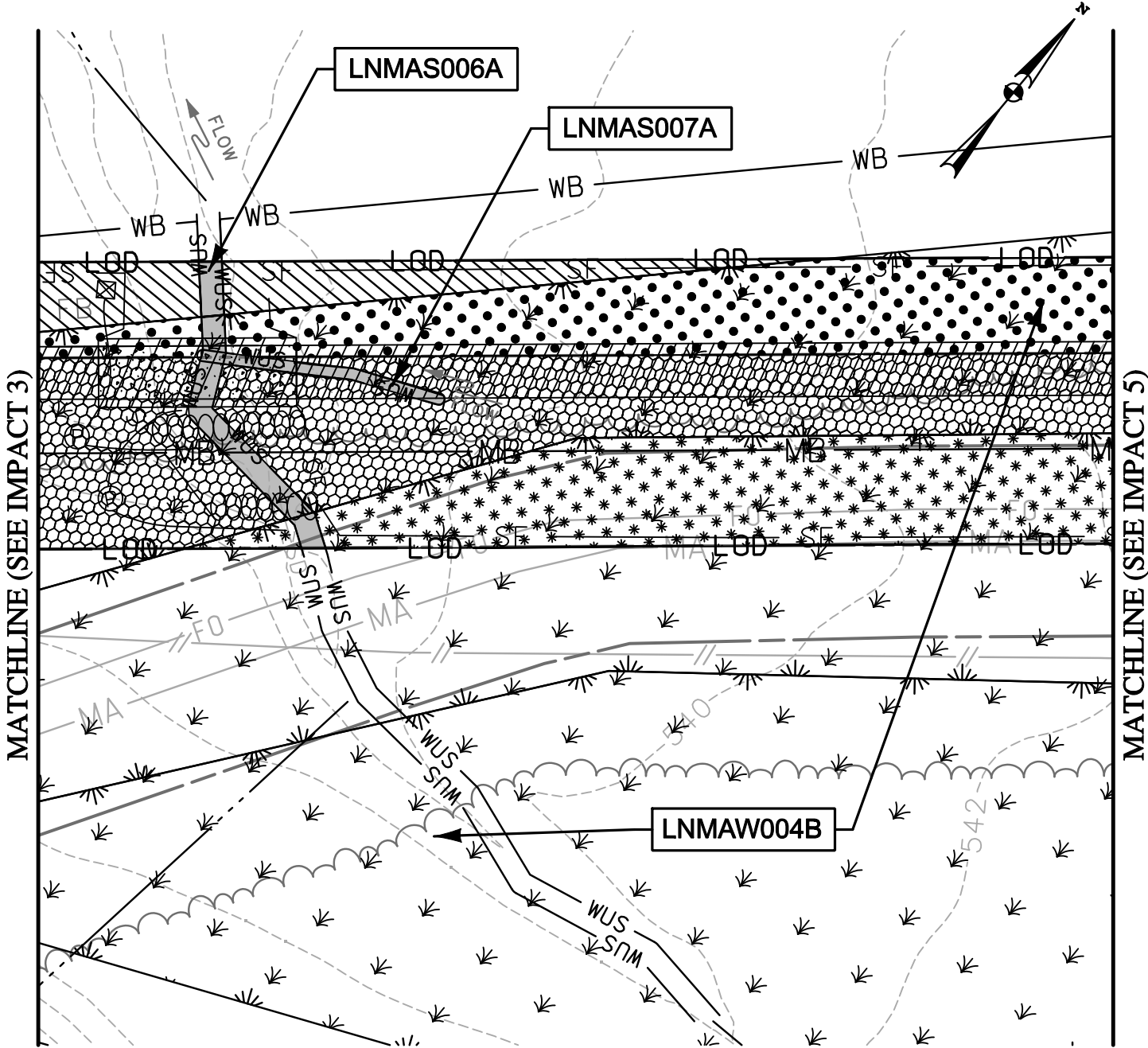
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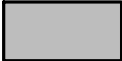
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**IMPACT 3**

LNMAW004B



12-NT-0433/201261660

 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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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SCALE:  
 1" = 40'

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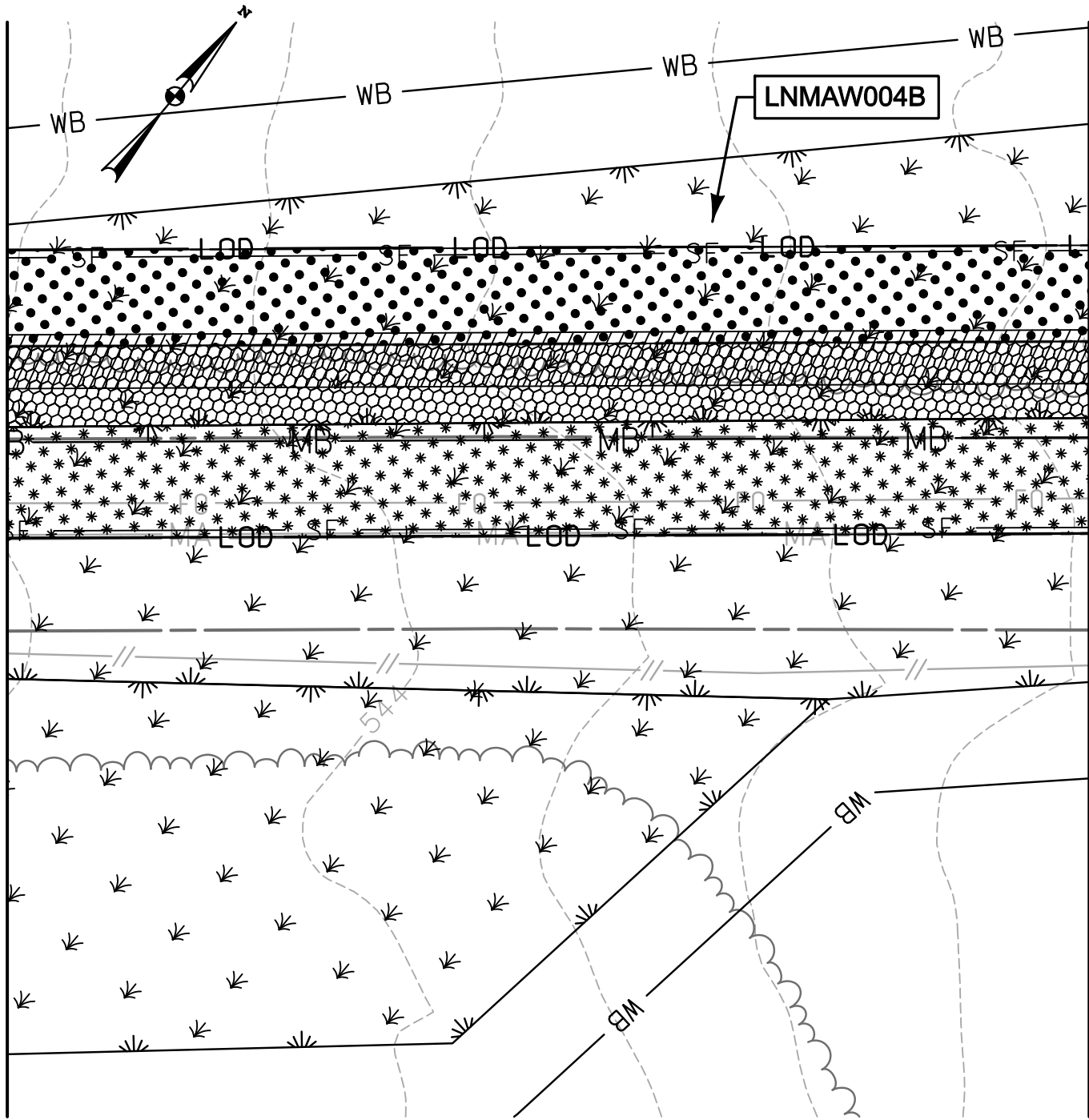
LINE MB EXTENSION PROJECT  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
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**IMPACT 4**

LNMA006A; LNMA007A; LNMAW004B

MATCHLINE (SEE IMPACT 4)

MATCHLINE (SEE IMPACT 6)



LNMAW004B

12-NT-0433/201261660


 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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
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SCALE:  
 1" = 40'

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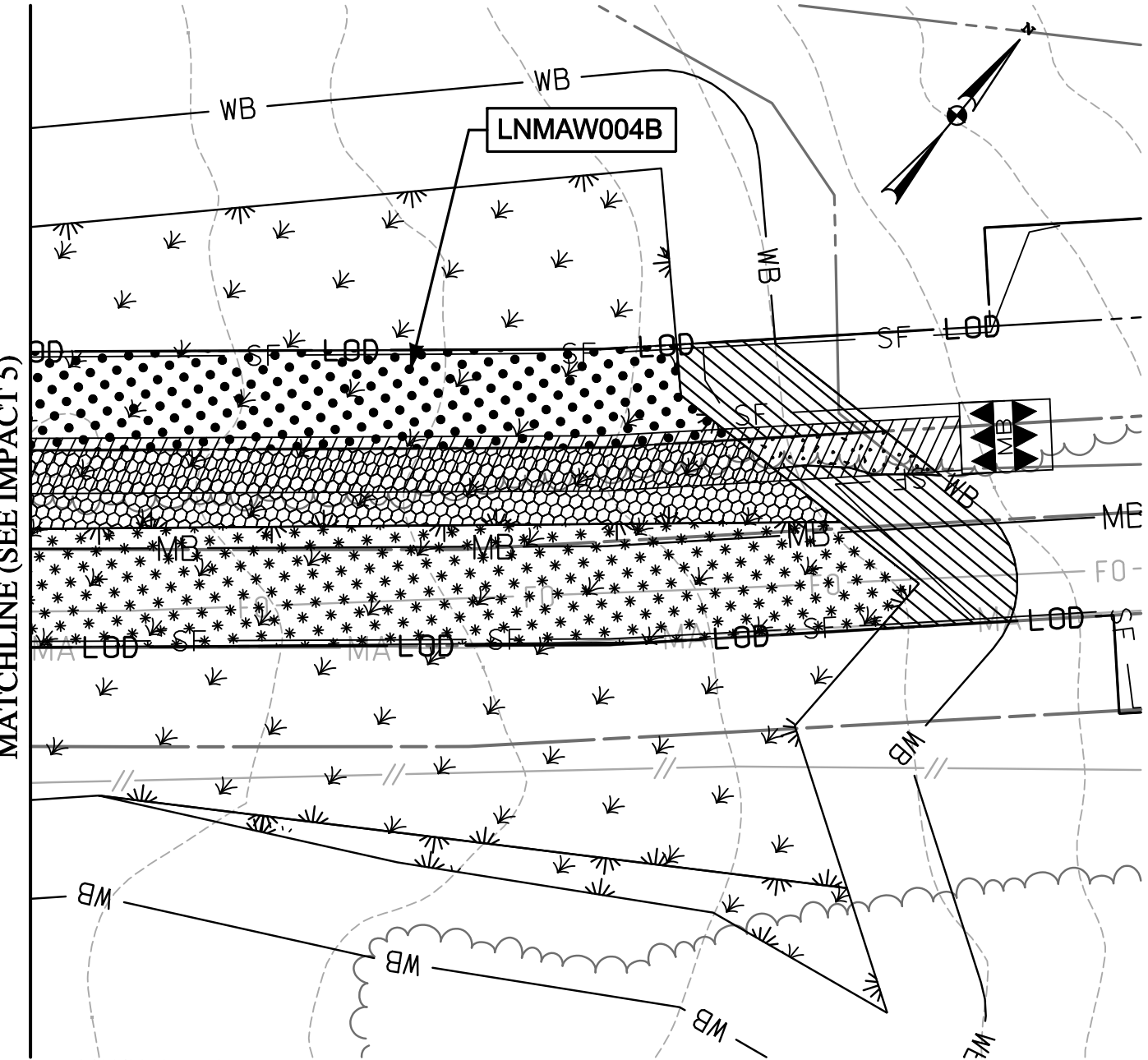
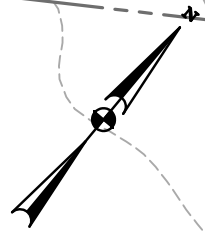
**LINE MB EXTENSION PROJECT**  
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 CHARLESTON, WV 25314

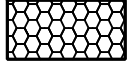

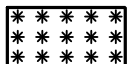
**IMPACT 5**



LNMAW004B

MATCHLINE (SEE IMPACT 5)

LNMAW004B



- 12-NT-0433/201261660
-  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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\26-Plate-LINE\_MB-impact06.dgn



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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

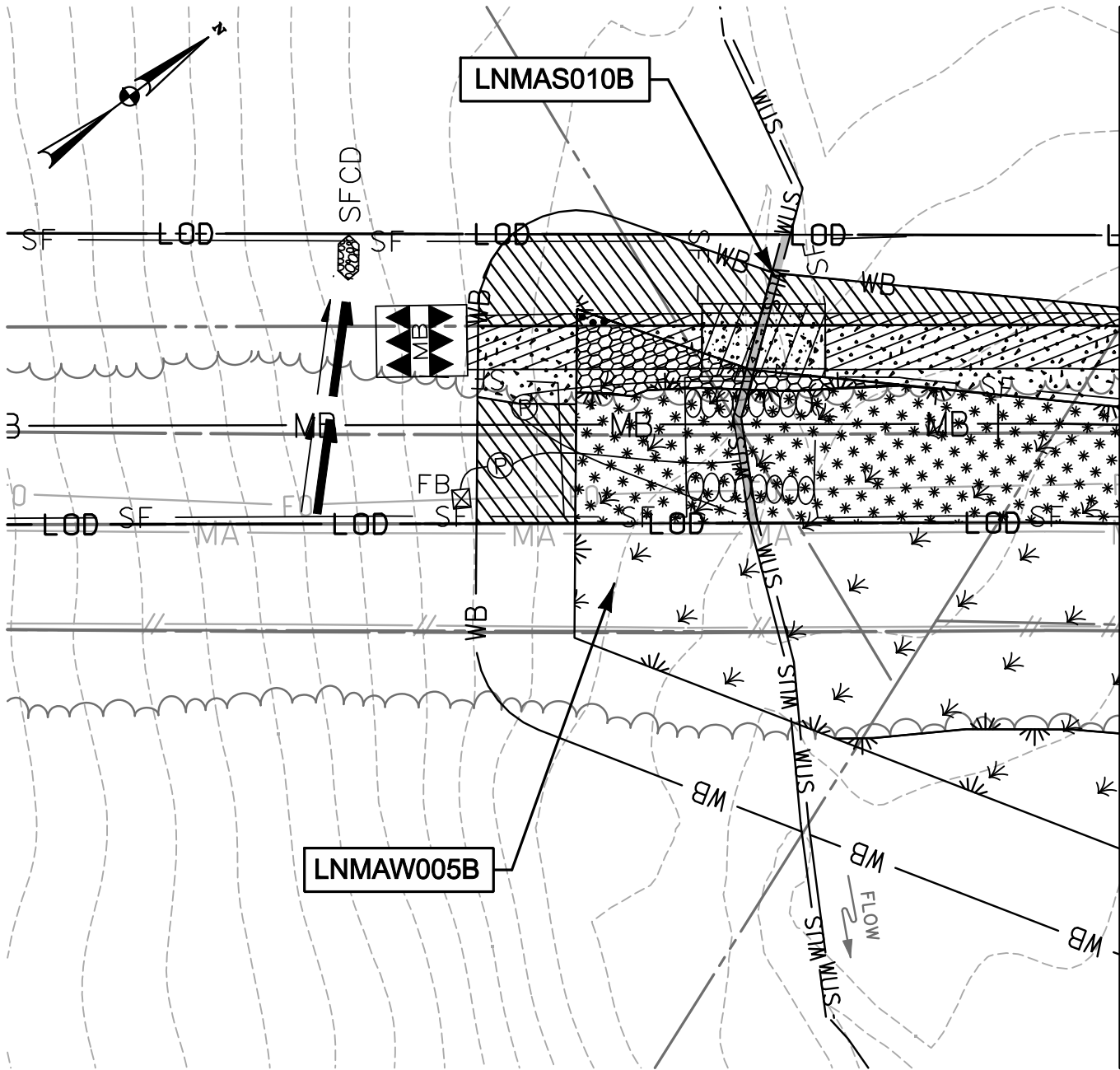
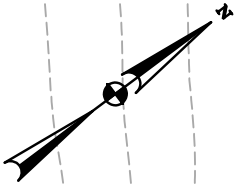
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 1700 MacCORKLE AVE, SE  
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**IMPACT 6**


LNMAW004B



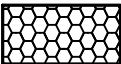


MATCHLINE (SEE IMPACT 8)

12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
150 SF./ 0.003 AC./ 75 LF.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
4,482 SF./ 0.10 AC.

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
648 SF./ 0.01 AC.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,832 SF./ 0.04 AC.

 TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
26 SF./ 0.0005 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
3,332 SF./ 0.08 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 27 OF 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
BY: Christopher Delbel Division: P050 Natural Res Emp  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\27-Plate-LINE\_MB-impact07.dgn



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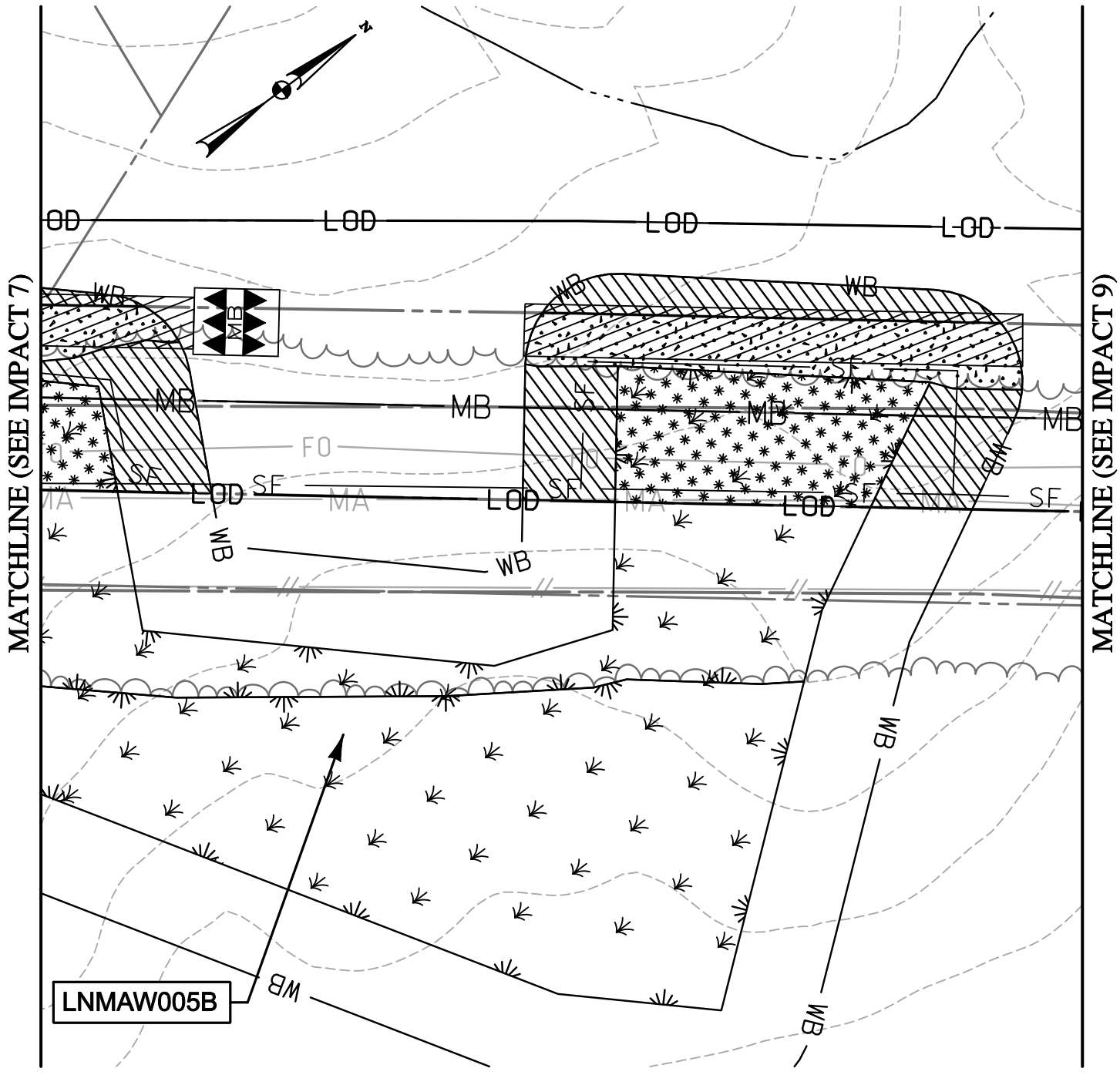
SCALE:  
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CSD

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

**IMPACT 7**  
LNMAS010B; LNMAW005B

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\28-Plate-LINE\_MB-impact08.dgn



12-NT-0433/201261660

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.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 28 OF 84

**KCI**  
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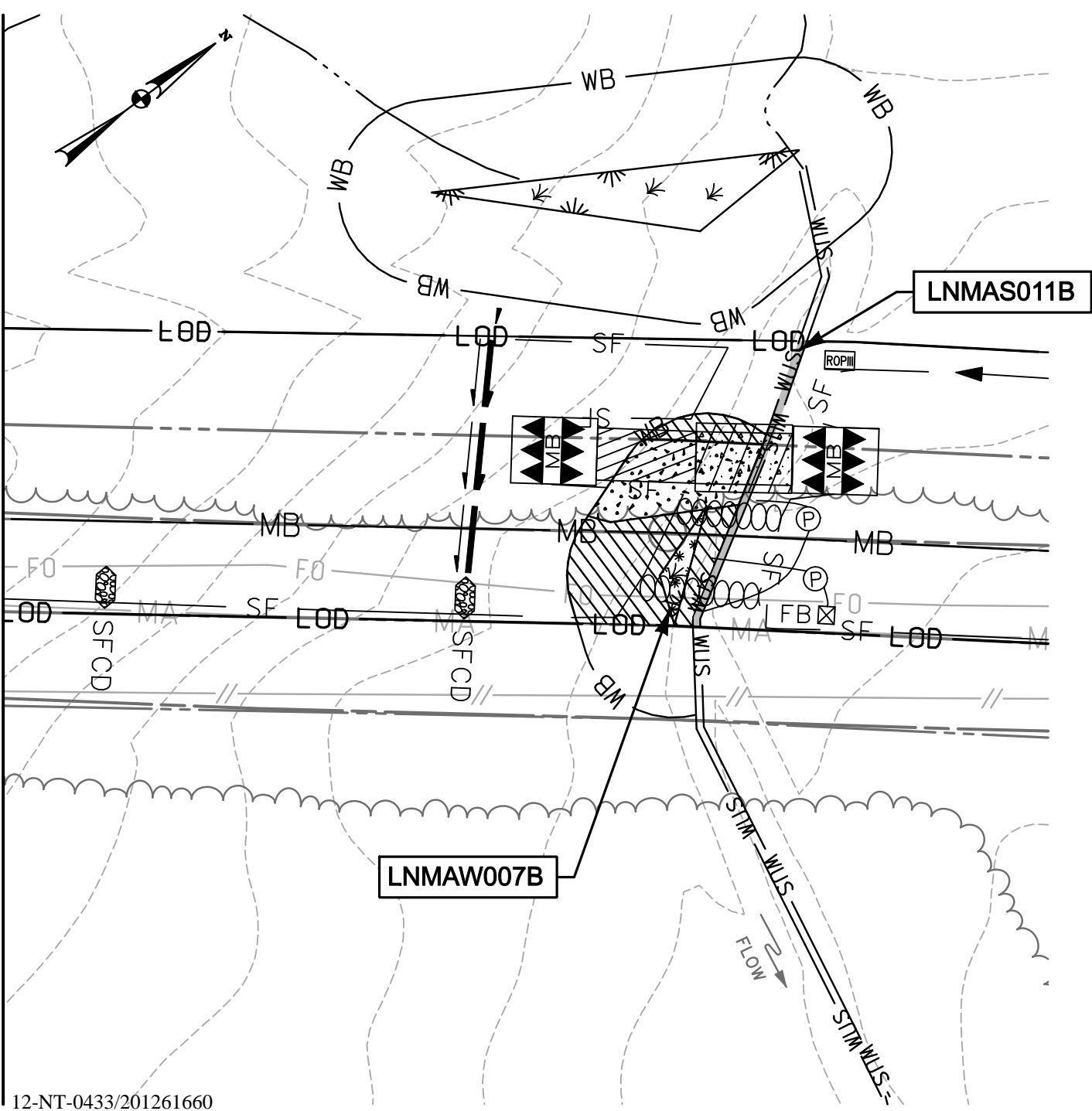
SCALE:  
 1" = 40'

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 CSD



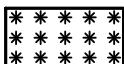

LINE MB EXTENSION PROJECT  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 8**  
 LNMAW005B

MATCHLINE (SEE IMPACT 8)



12-NT-0433/201261660

-  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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\29-Plate-LINE\_MB-impact09.dgn

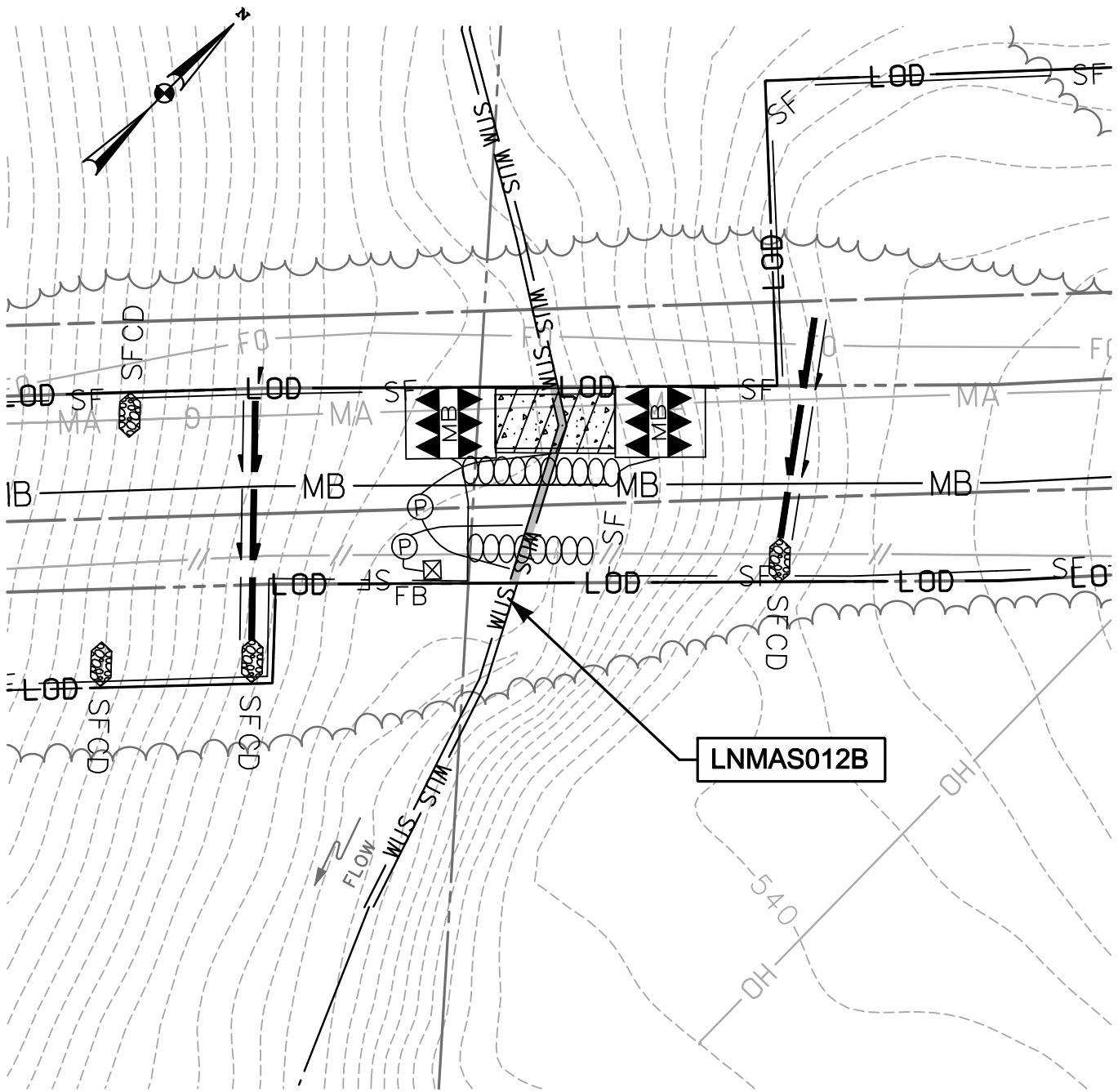


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 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSO

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

**IMPACT 9**  
 LNMAS011B; LNMAW007B



12-NT-0433/201261660

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 84



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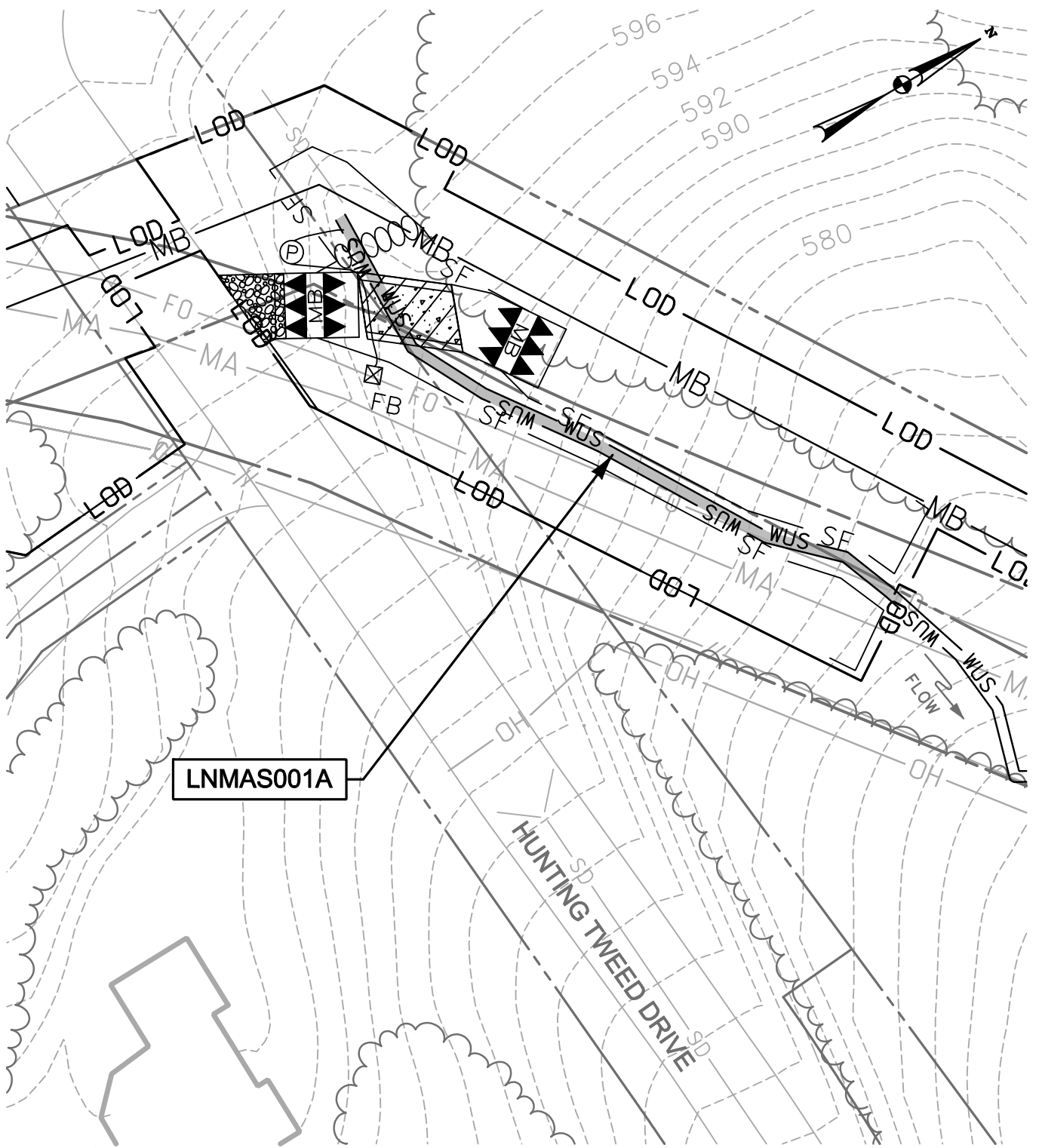
LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

IMPACT 10

LNMAS012B

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LNMAS001A

12-NT-0433/201261660

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 84

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849.drawings\IMPACT\_PLATES\31-Plate-LINE\_MB-impact11.dgn

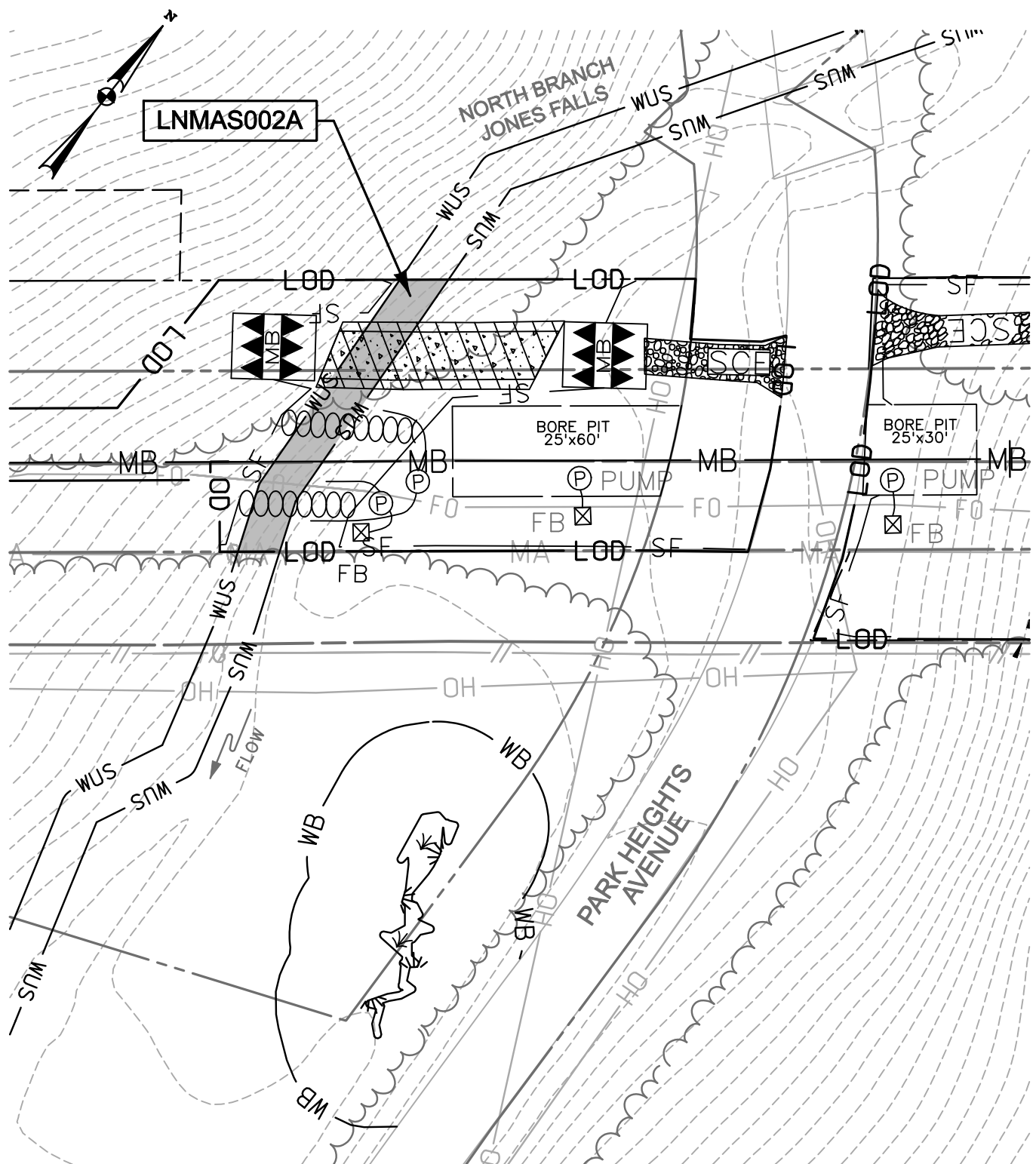


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**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
  
**IMPACT 11**  
 LNMAS001A

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\32-Plate-LINE\_MB-impact12.dgn



12-NT-0433/201261660

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

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 32 OF 84



**KCI**  
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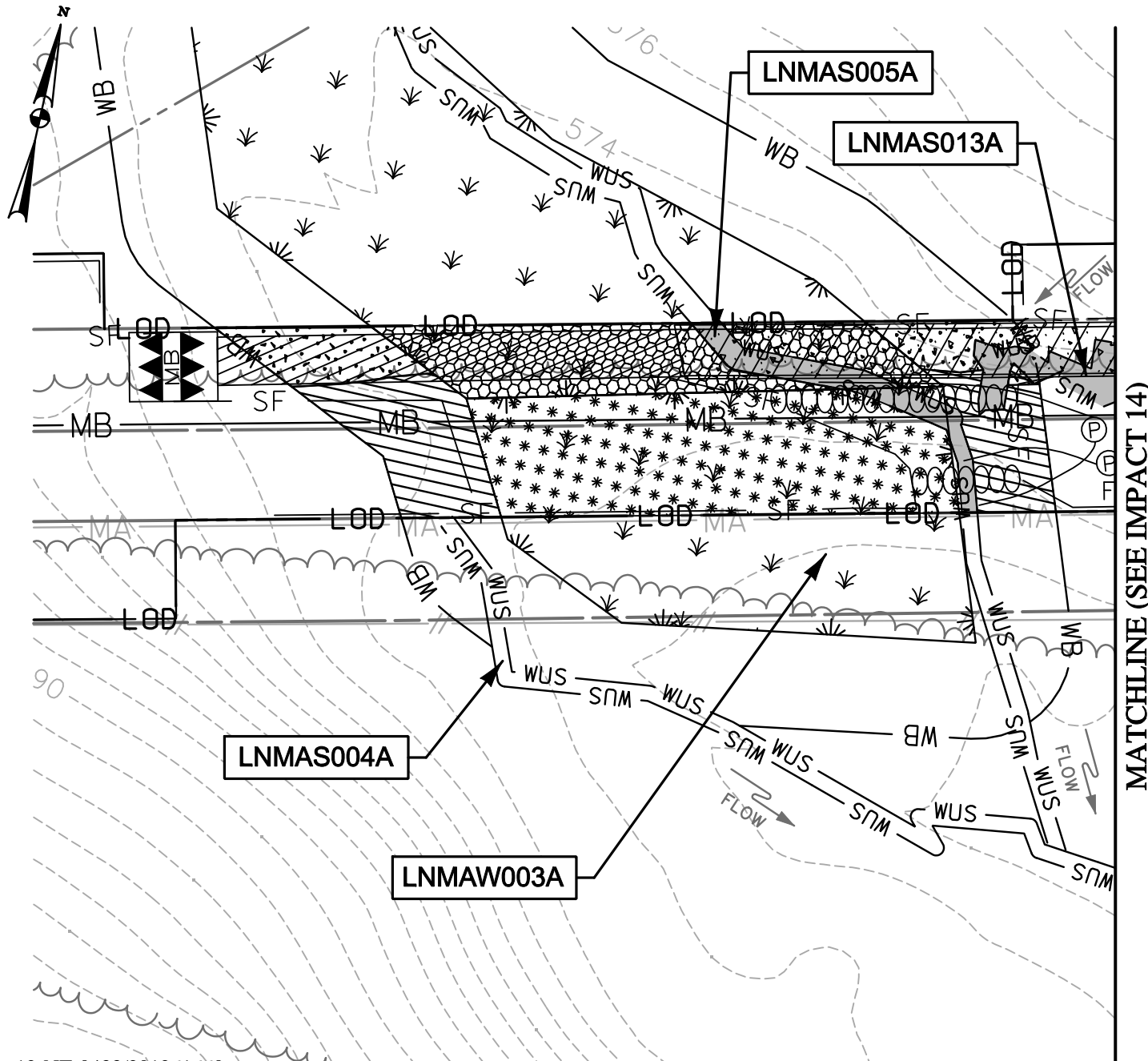
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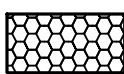

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 CSD

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


**IMPACT 12**  
 LNMA002A



12-NT-0433/201261660

-  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: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 33 OF 84

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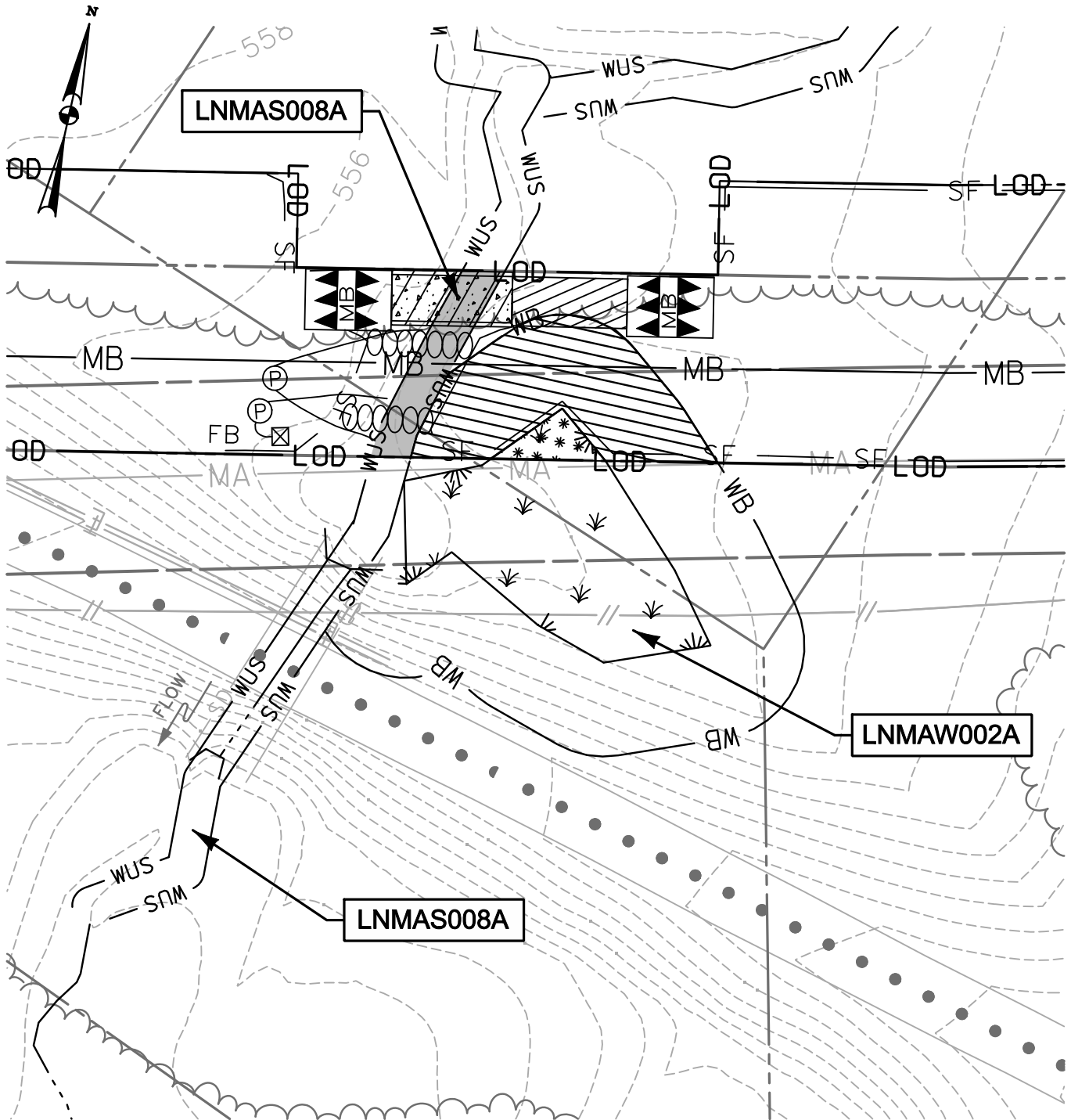
**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

IMPACT 13


LNMAW003A; LNMA004A; LNMA013A; LNMA005A







12-NT-0433/201261660

 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: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 35 OF 84



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SCALE:  
1" = 40'

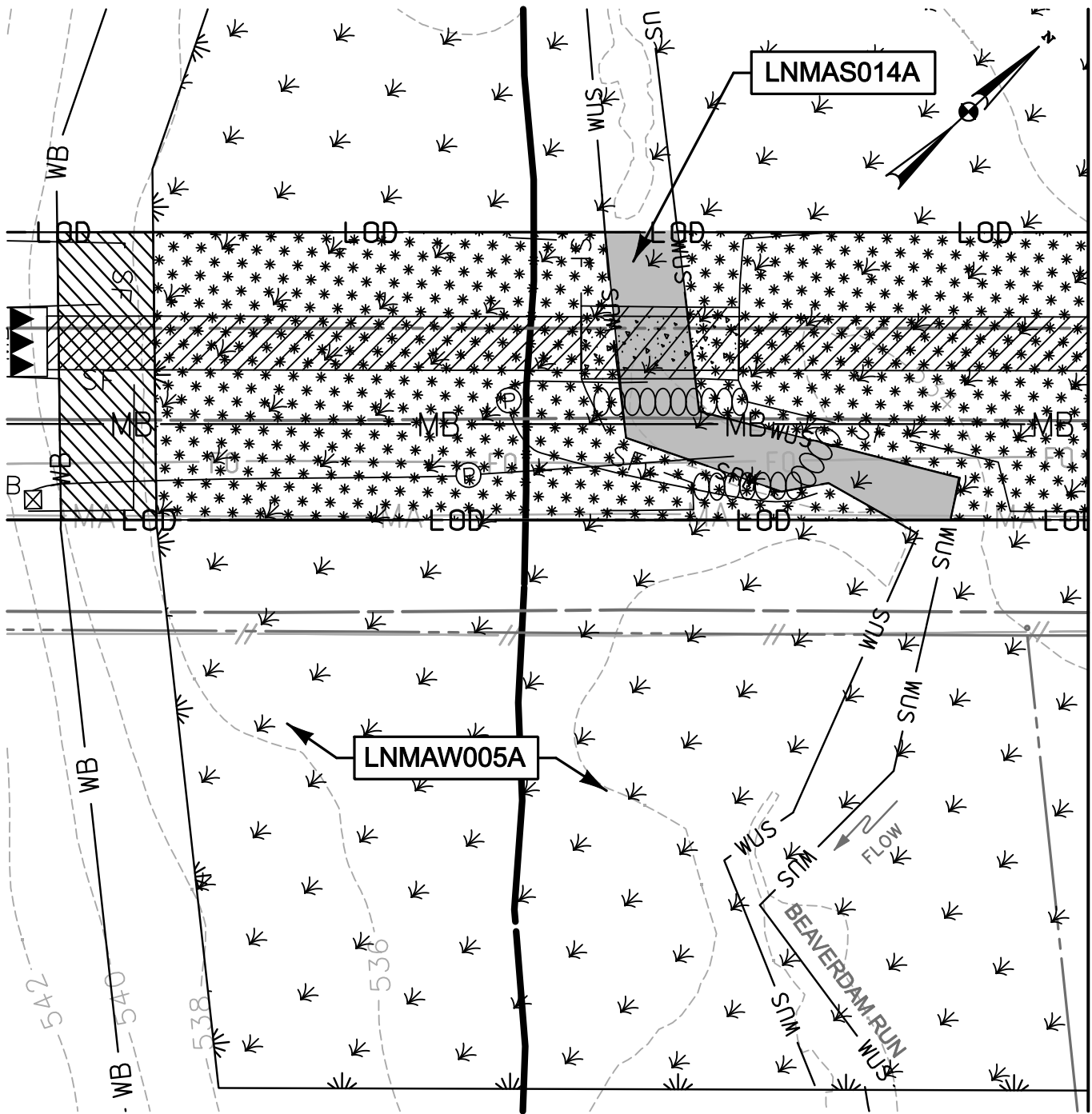
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NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314


**IMPACT 15**

LNMAW002A; LNMA008A

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 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\35-Plate-LINE\_MB-impact15.dgn



12-NT-0433/201261660

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

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

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

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 36 OF 84



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**IMPACT 16**

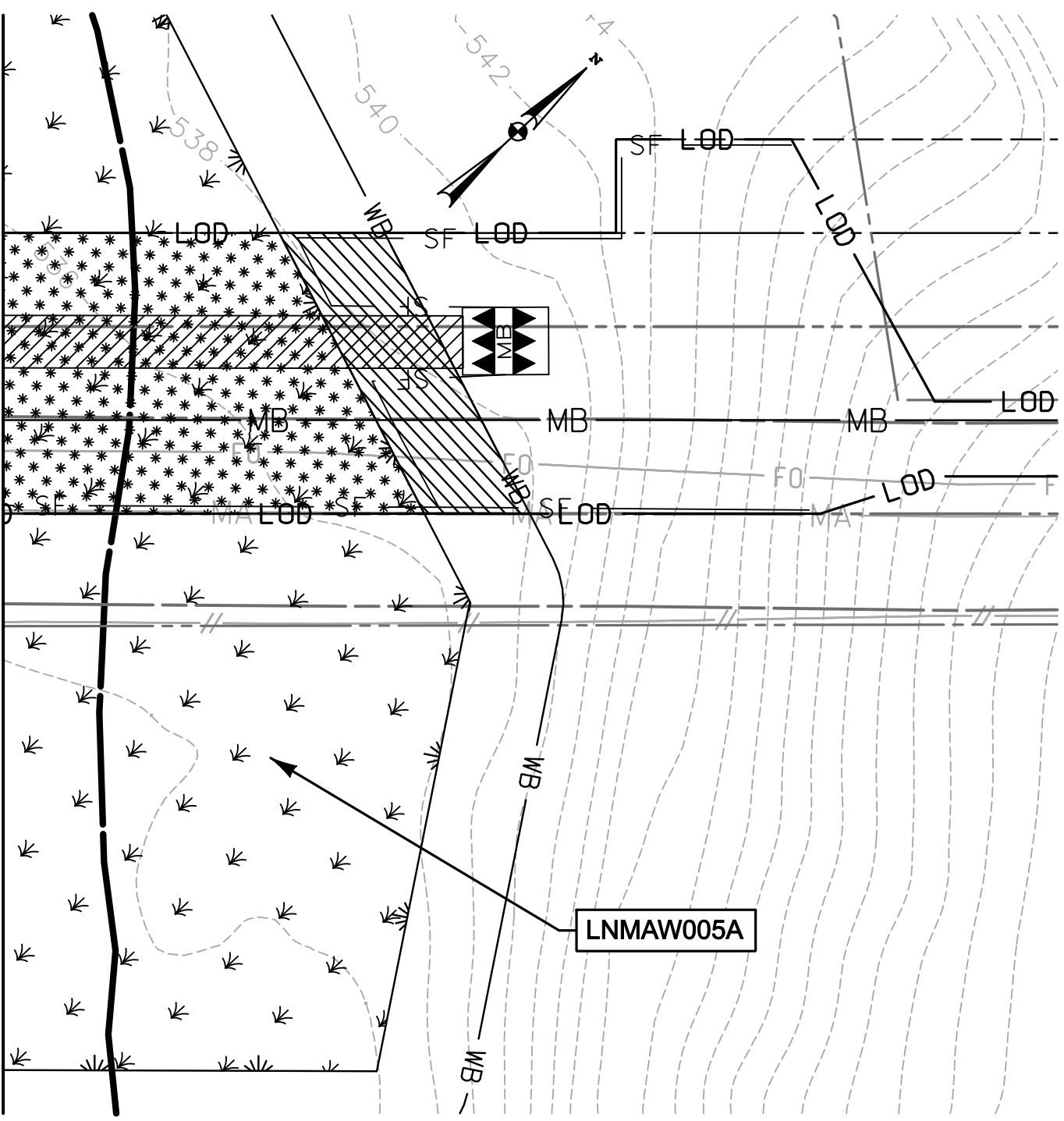
LNMAW005A; LNMAW014A

PLOTTED: 11/09/12 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\36-Plate-LINE\_MB-impact16.dgn



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 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\37-Plate-LINE\_MB-impact17.dgn

MATCHLINE (SEE IMPACT 16)



12-NT-0433/201261660

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 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.

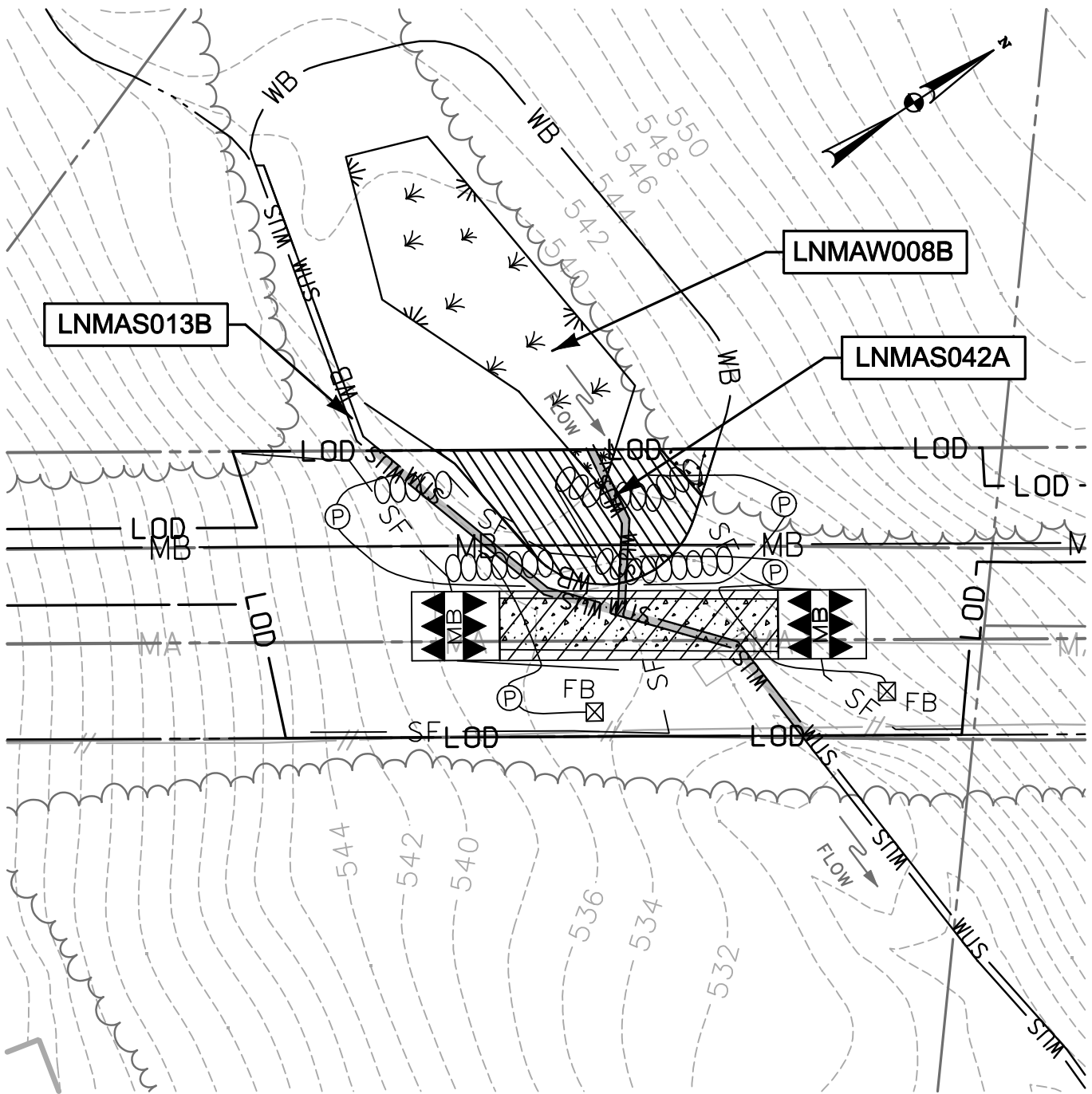
SHEET 37 OF 84




**KCI**  
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**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
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**IMPACT 17**  
 LNMAW005A



12-NT-0433/201261660

 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 84



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SCALE:  
1" = 40'

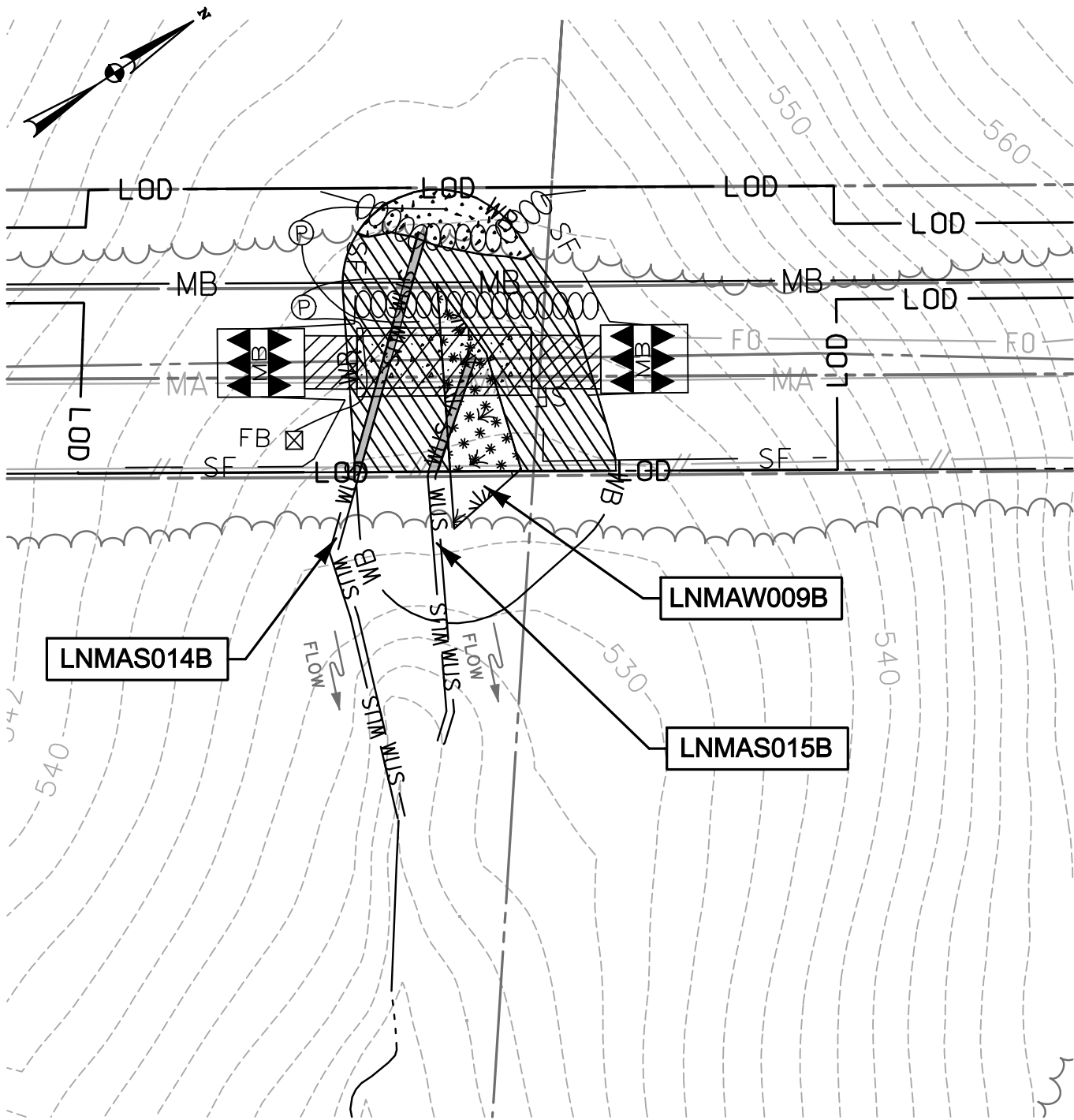
DRAWN BY:  
CSD

LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
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**IMPACT 18**


LNMAW008B; LNMAW008A; LNMAW008B

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12-NT-0433/201261660

 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 84



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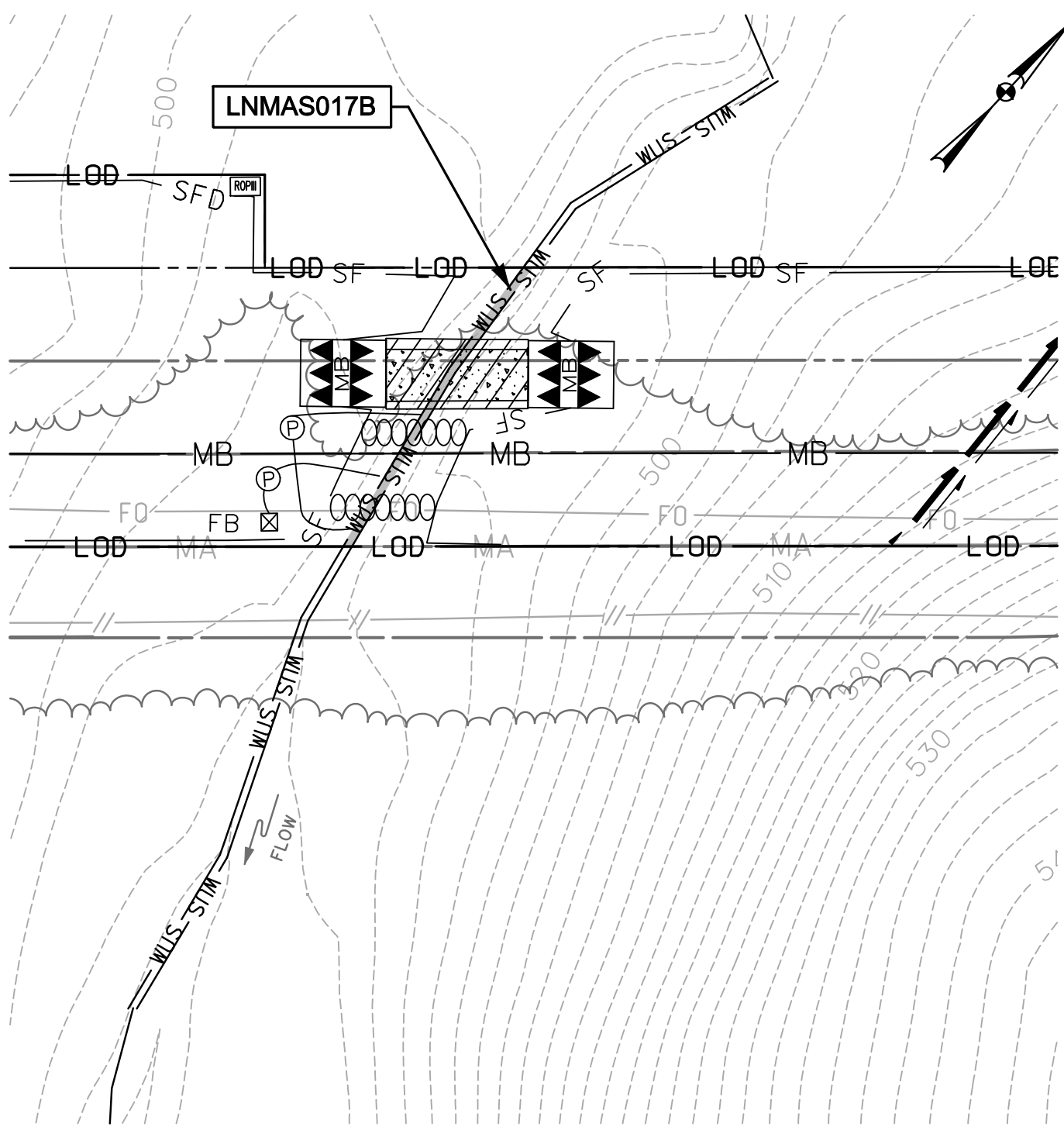
SCALE:  
1" = 40'

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NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
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**IMPACT 19**

LNMAW009B; LNMAW014B; LNMAW015B



12-NT-0433/201261660


 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 84



**ENGINEERS**  
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SCALE:  
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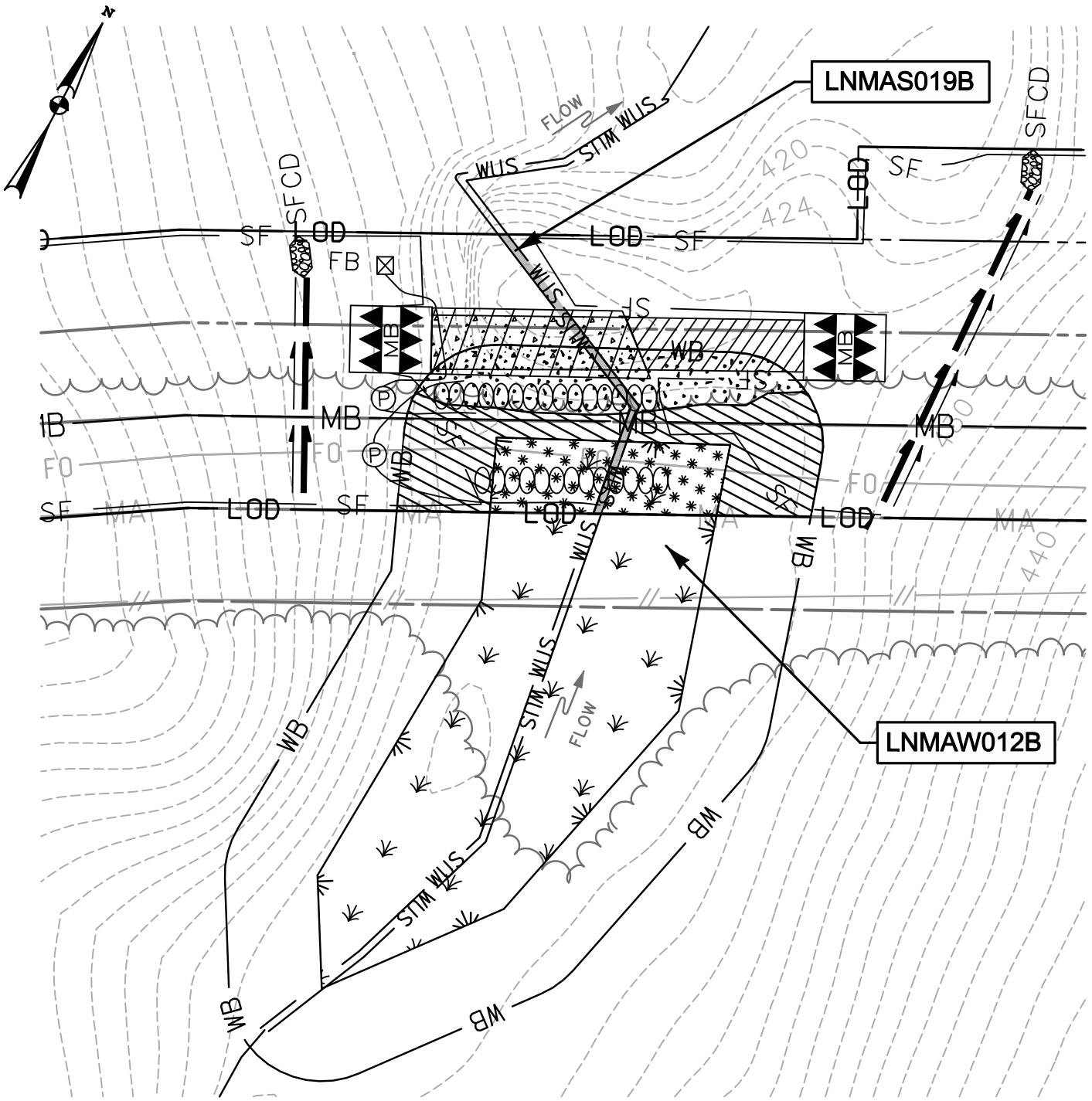
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**IMPACT 20**

LNMA S017B

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12-NT-0433/201261660

 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 84



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SCALE:  
1" = 40'

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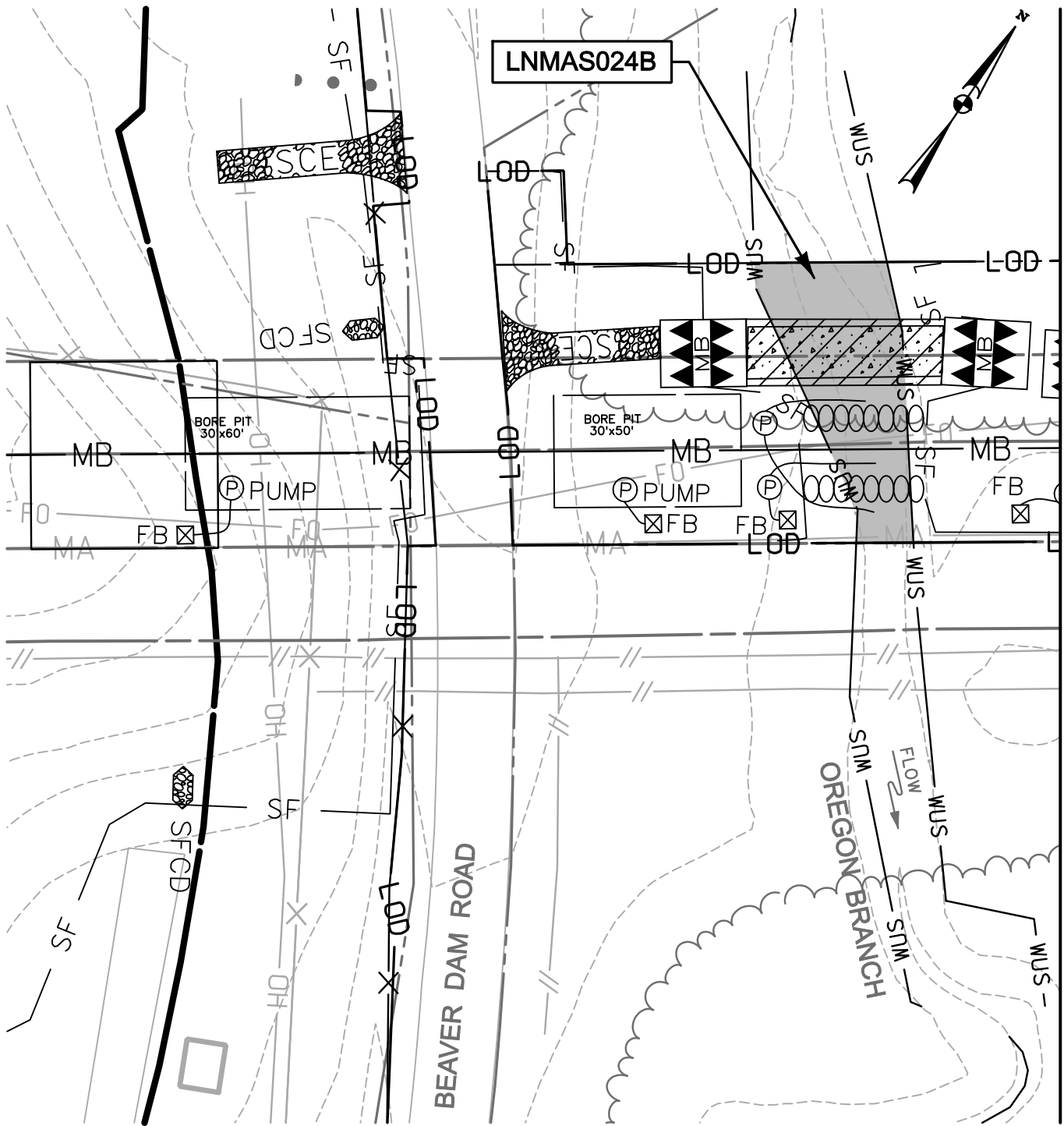
LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
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**IMPACT 21**

LNMAW012B; LNMA019B

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
 BY: Christopher Delbel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\41-Plate-LINE\_MB-impact21.dgn





MATCHLINE (SEE IMPACT 23)

12-NT-0433/201261660

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 84



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SCALE:  
 1" = 40'

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**LINE MB EXTENSION PROJECT**  
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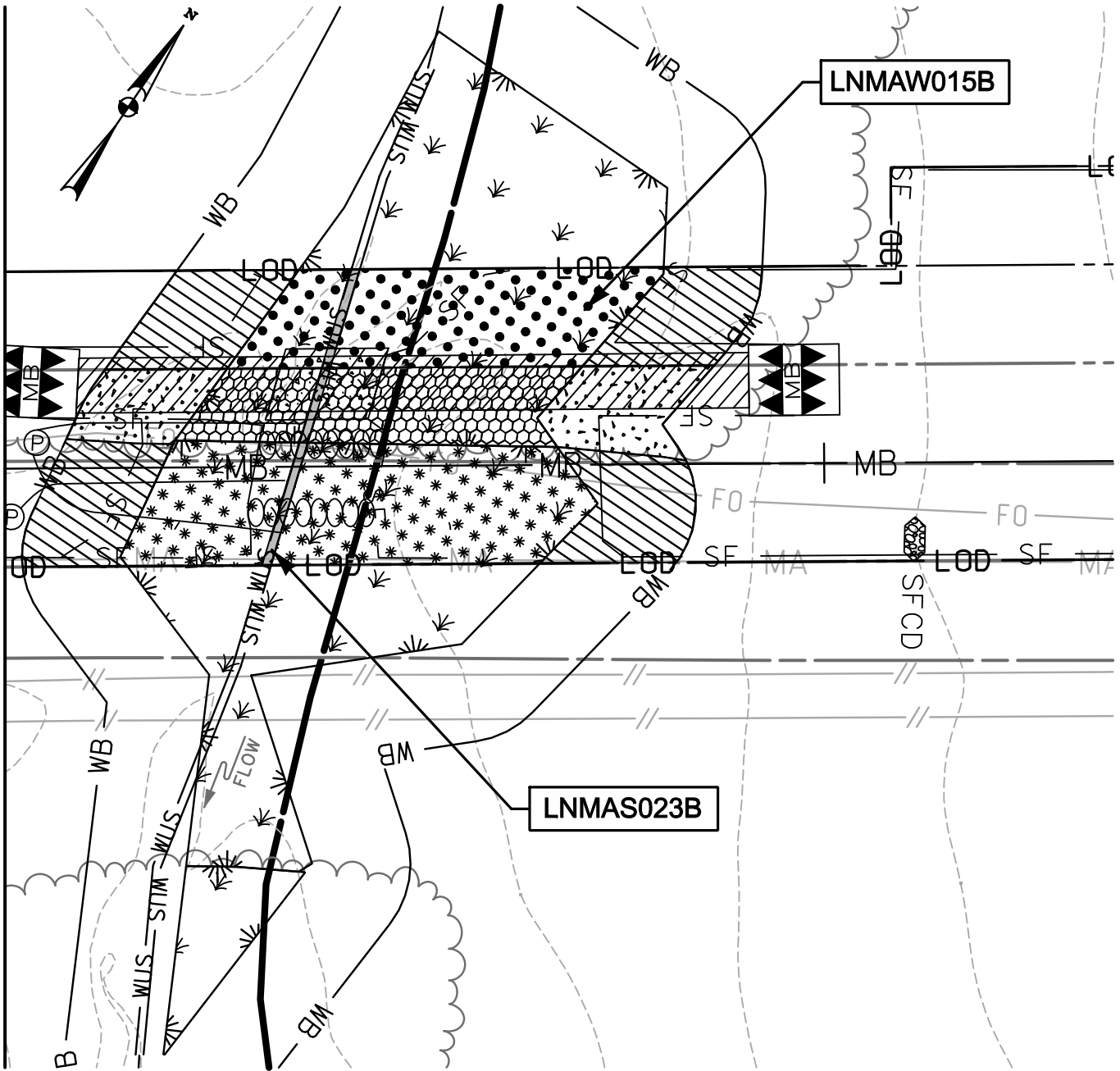
**IMPACT 22**

LNMA024B


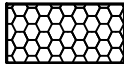

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\42-Plate-LINE\_MB-impact22.dgn

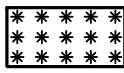




MATCHLINE (SEE IMPACT 22)



12-NT-0433/201261660

-  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 84



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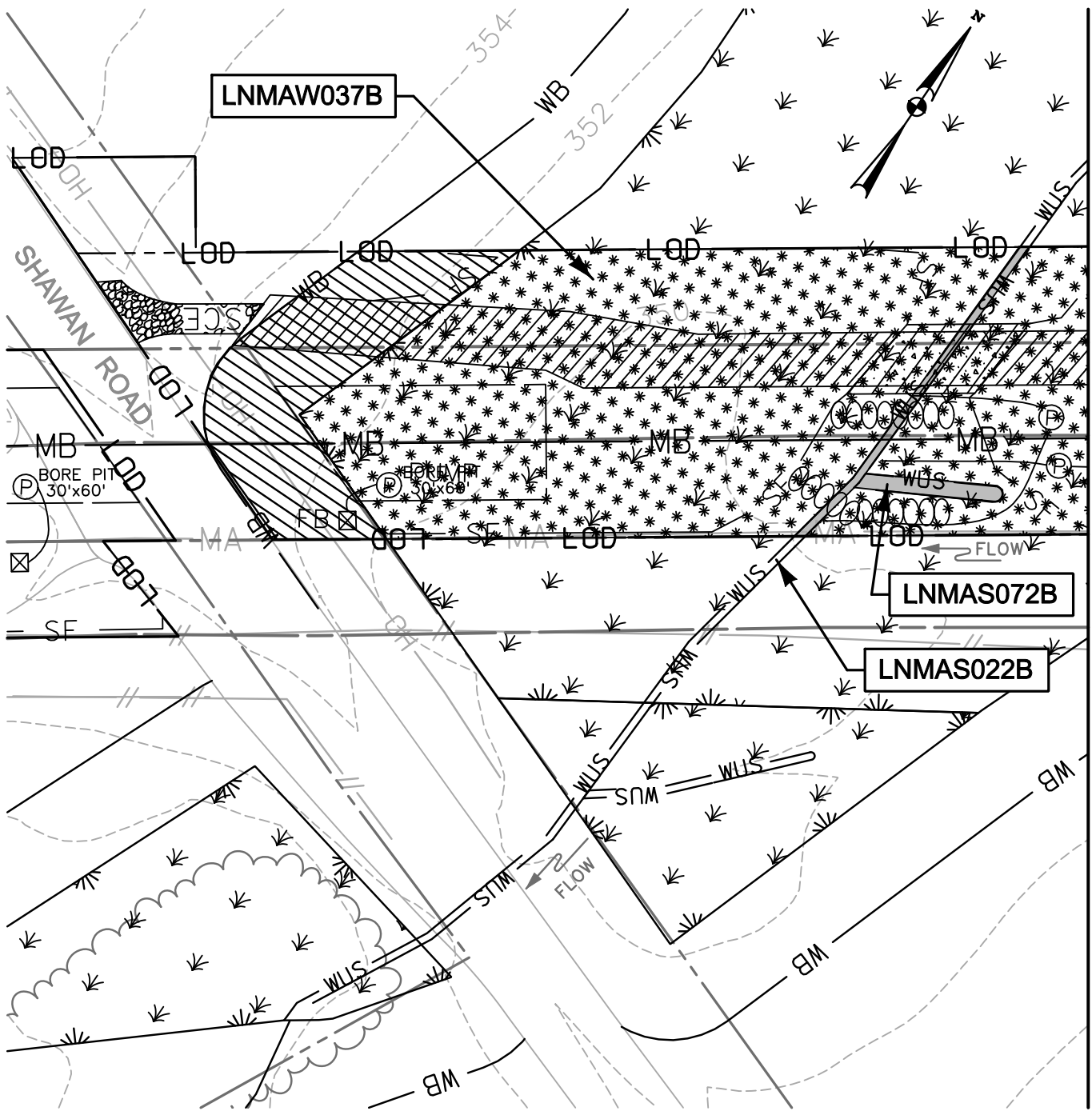
SCALE:  
1" = 40'

DRAWN BY:  
CSD

LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
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**IMPACT 23**  
LNMAW015B; LNMAW023B

PLOTTED: 09:57 AM on Tuesday, November 06, 2012  
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 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\4.3-Plate-LINE\_MB-impact23.dgn



MATCHLINE (SEE IMPACT 25)

12-NT-0433/201261660


 TEMPORARY WATERS OF U.S. IMPACT  
 339 SF./ 0.008 AC./ 132 LF.


 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 2,623 SF./ 0.06 AC.


 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
 13,479 SF./ 0.31 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 44 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATES\4-4-Plate-LINE\_MB-Impact24.dgn



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SCALE:  
 1" = 40'

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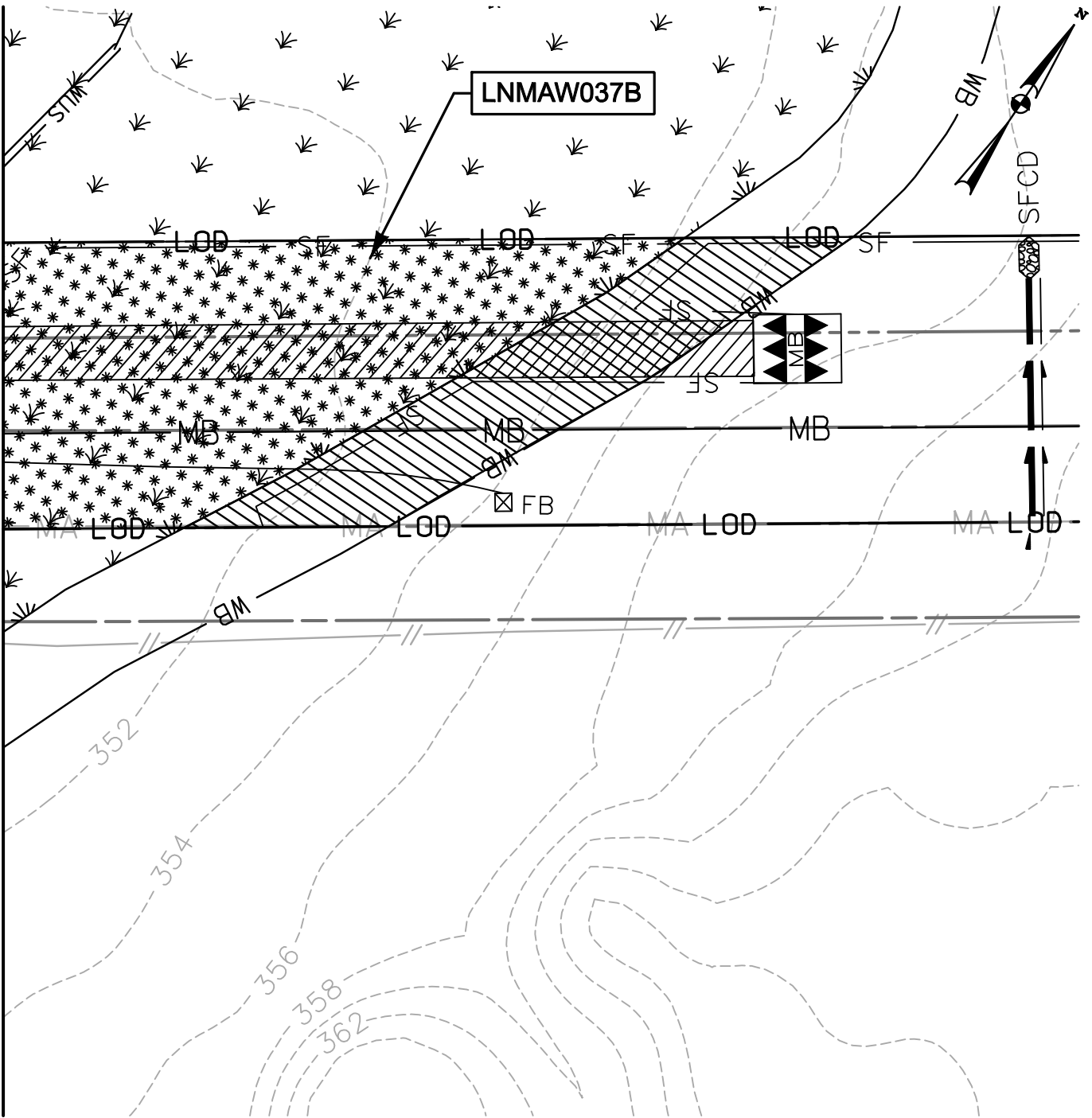
**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 24**

LNMAW037B; LNMAW022B; LNMAW072B

MATCHLINE (SEE IMPACT 24)

LNMAW037B



12-NT-0433/201261660


 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: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 45 OF 84



ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS

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

DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

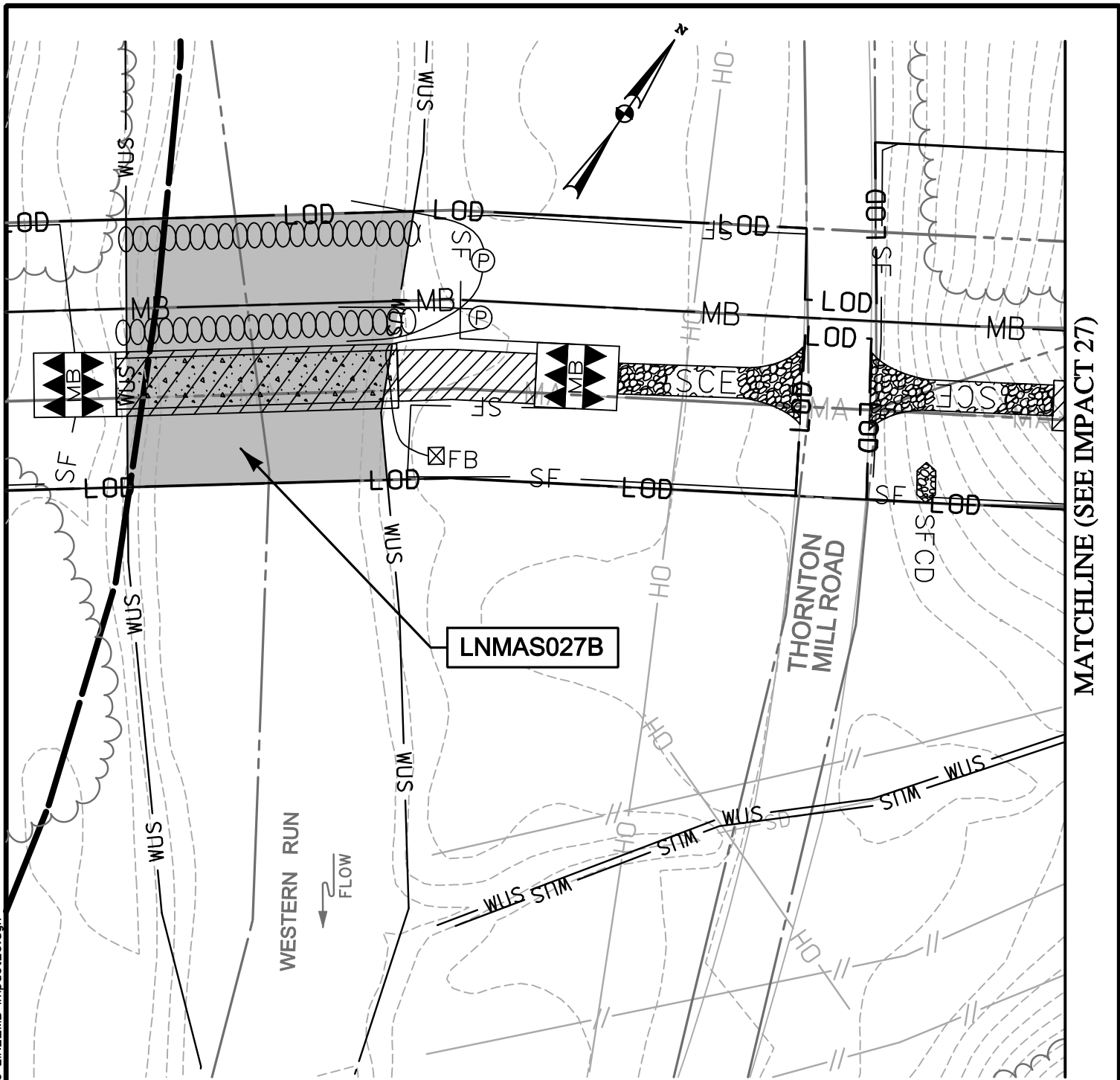
DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
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**IMPACT 25**

LNMAW037B

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Delbel/Division: P050 Natural Res. Emp  
 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATES\45-Plate-LINE\_MB-impact25.dgn



12-NT-0433/201261660


 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 84

PLOTTED: 10:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\46-Plate-LINE\_MB-impact26.dgn



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 936 RIDGEBROOK ROAD  
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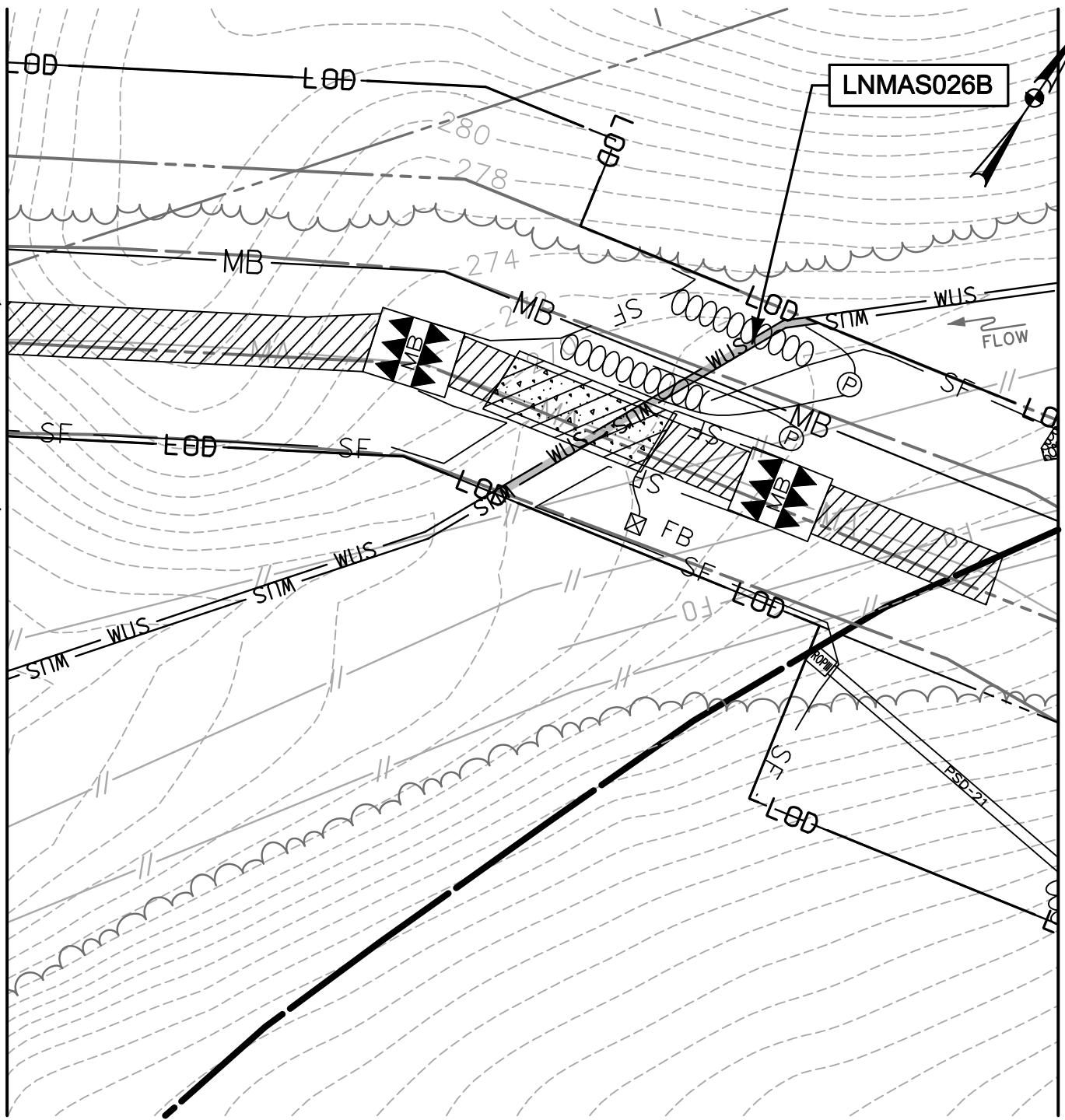
DATE:  
 NOVEMBER 2012  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
  
**IMPACT 26**  
 LNMAS027B




MATCHLINE (SEE IMPACT 26)

MATCHLINE (SEE IMPACT 28)



12-NT-0433/201261660


 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 84



ENGINEERS  
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 CONSTRUCTION MANAGERS

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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

DRAWN BY:  
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**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

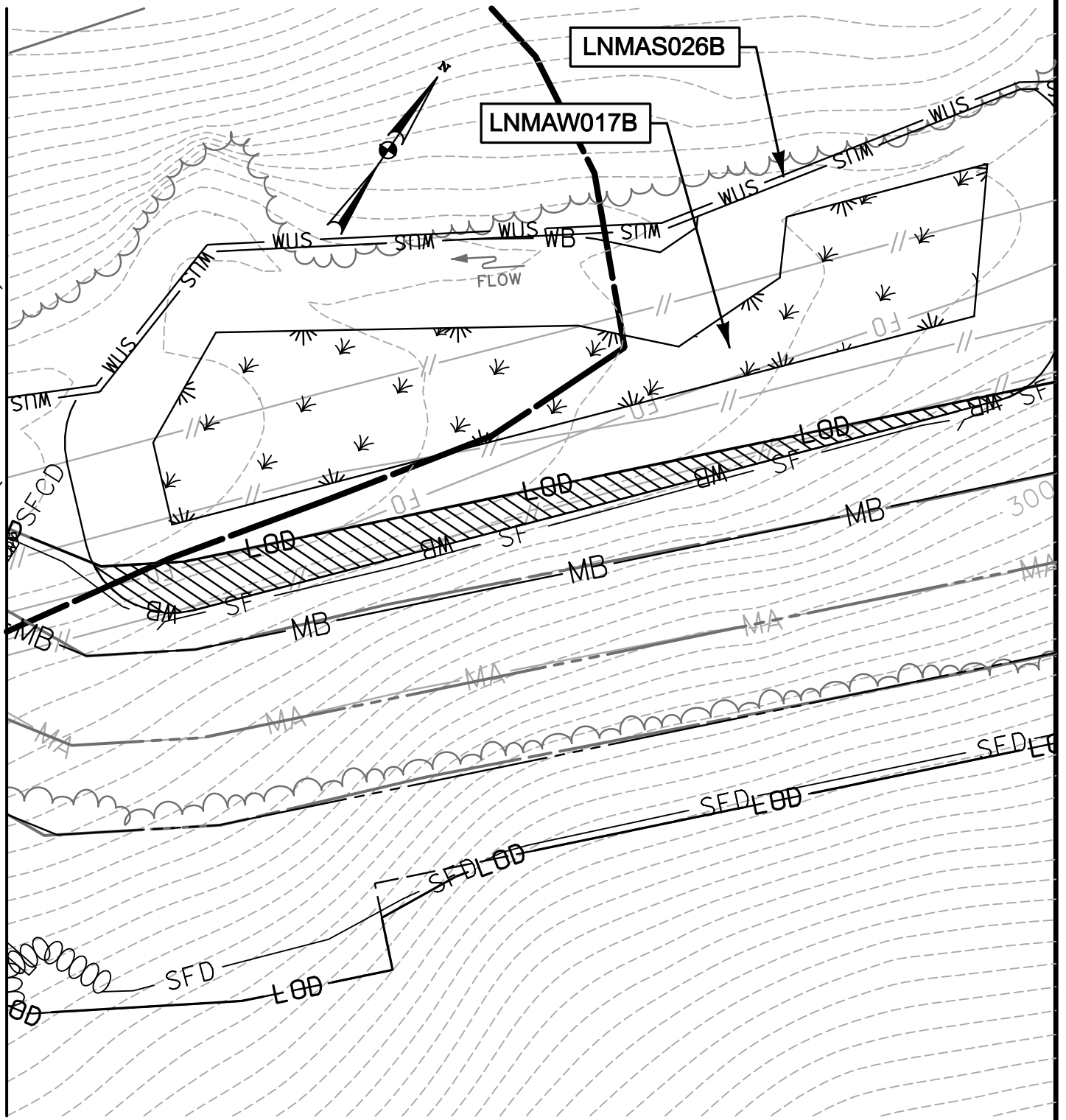
**IMPACT 27**

LNMA026B

PLOTTED: 10:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\47-Plate-LINE\_MB-impact27.dgn

PLOTTED: '09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\48-Plate-LINE\_MB-impact28.dgn

MATCHLINE (SEE IMPACT 27)



12-NT-0433/201261660


 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 84



ENGINEERS  
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DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

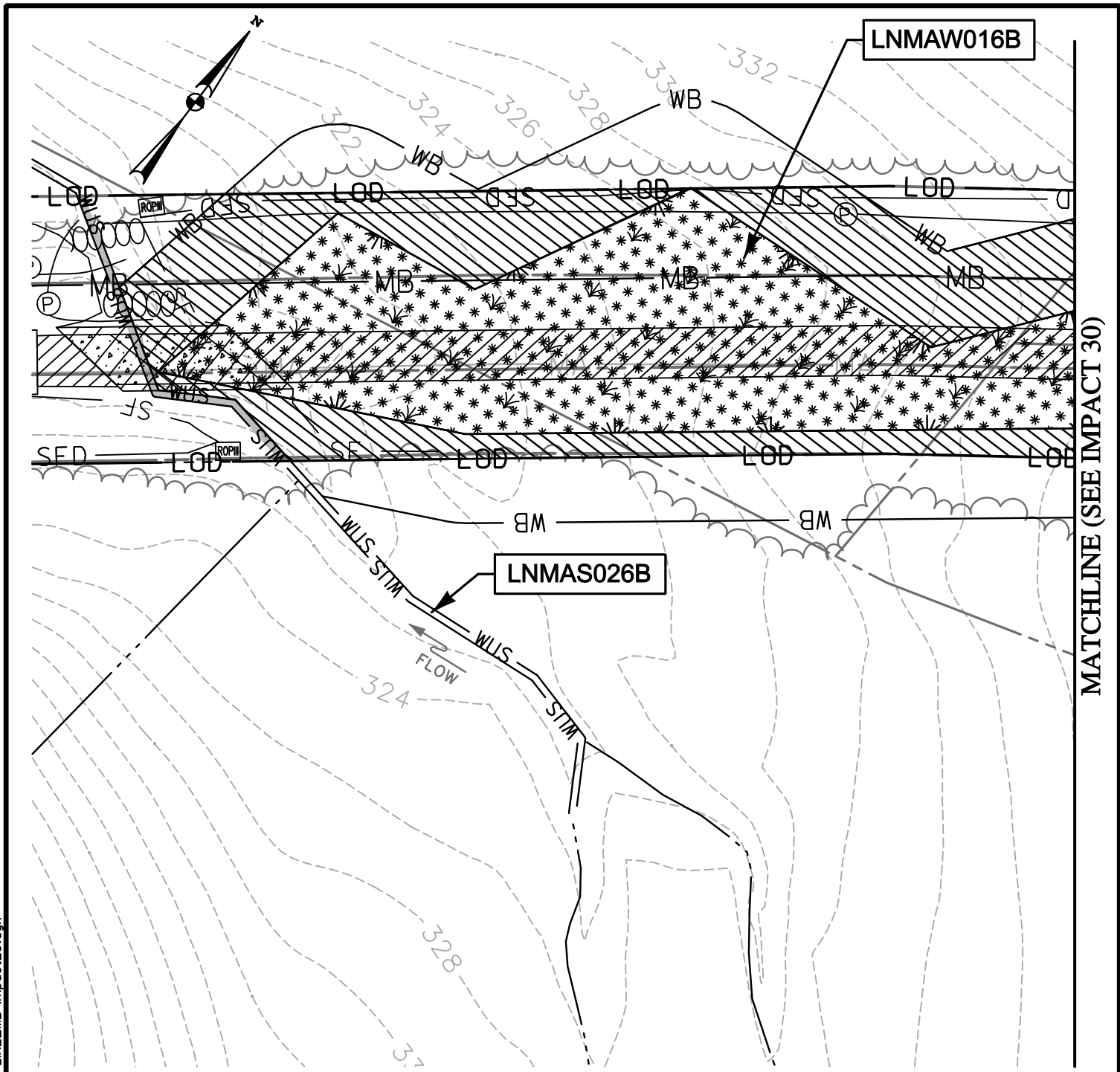
DRAWN BY:  
 CSD

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


**IMPACT 28**

LNMA026B; LNMAW017B





12-NT-0433/201261660

 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 84

PLOTTED: '09:58 AM on Tuesday, November 06, 2012"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\49-Plate-LINE\_MB-impact29.dgn



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

DATE:  
 NOVEMBER 2012

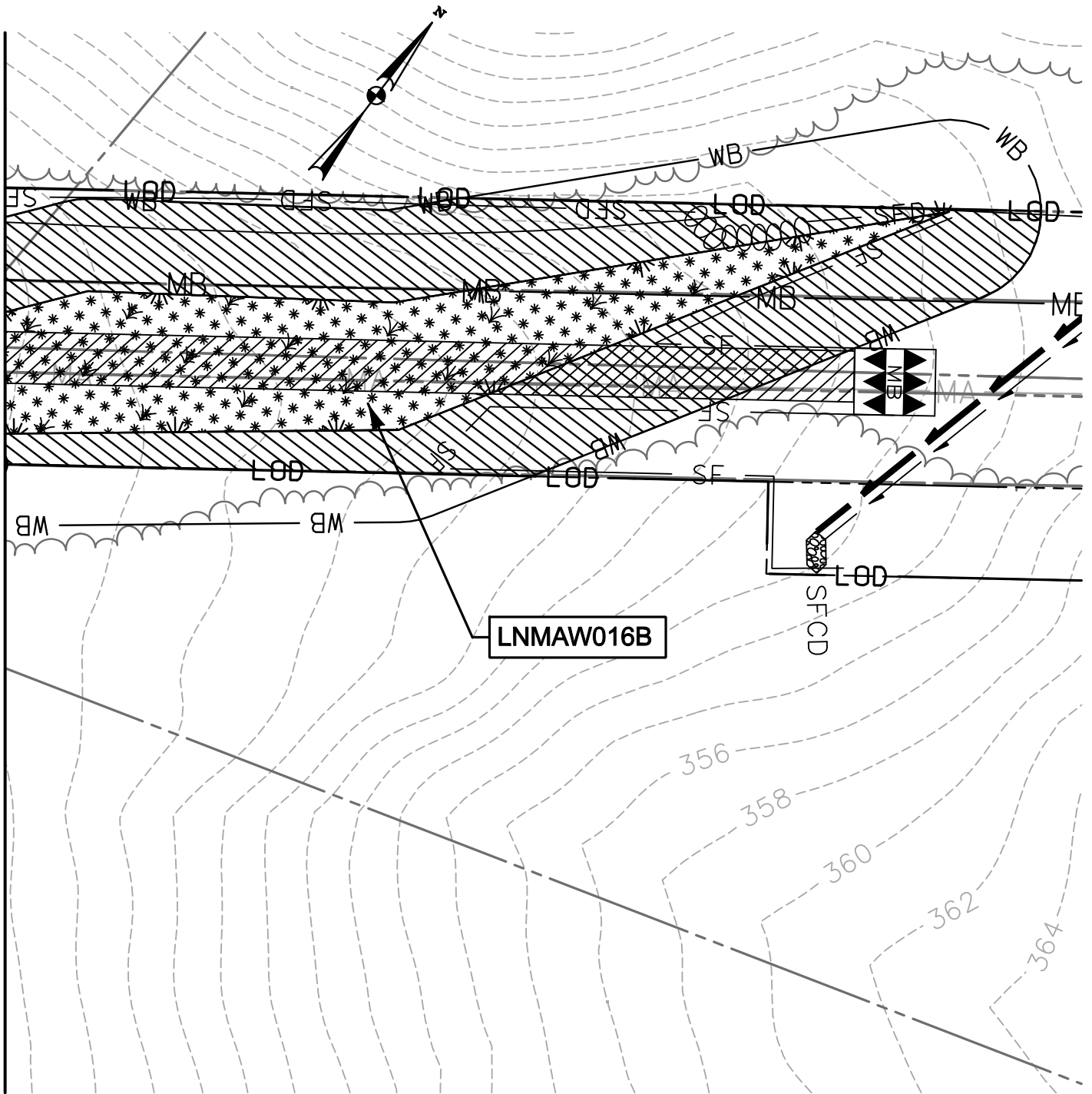
SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

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

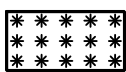
**IMPACT 29**  
 LNMAW016B; LNMAW026B

MATCHLINE (SEE IMPACT 29)



LNMAW016B

12-NT-0433/201261660



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 84

PLOTTED: 11/09/12 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\50-Plate-LINE\_MB-impact30.dgn



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DATE:  
NOVEMBER 2012

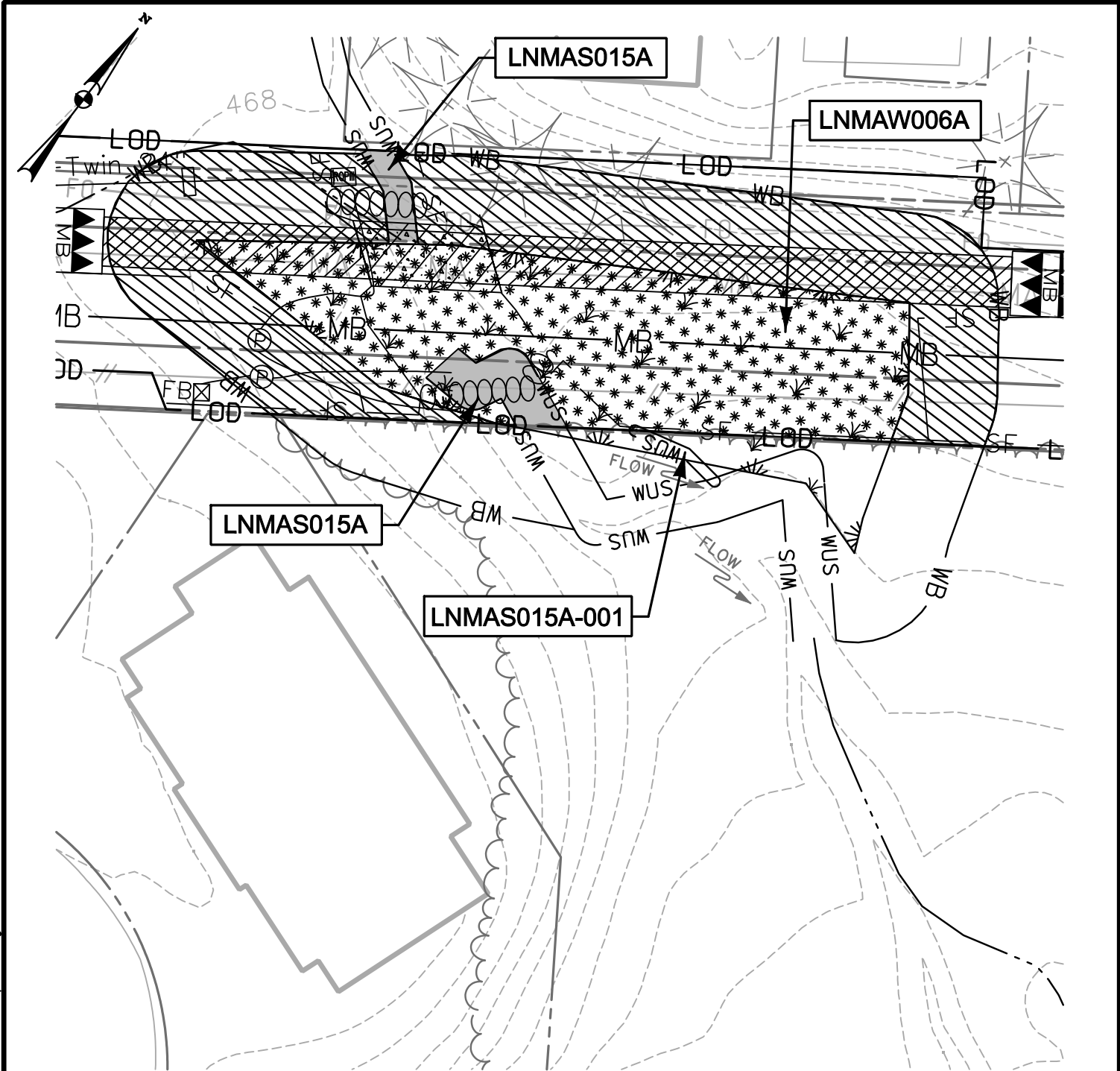
SCALE:  
1" = 40'

DRAWN BY:  
CSD


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

IMPACT 30

LNMAW016B



12-NT-0433/201261660

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

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

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

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 51 OF 84



ENGINEERS  
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TELEPHONE: (410) 316-7800  
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DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'

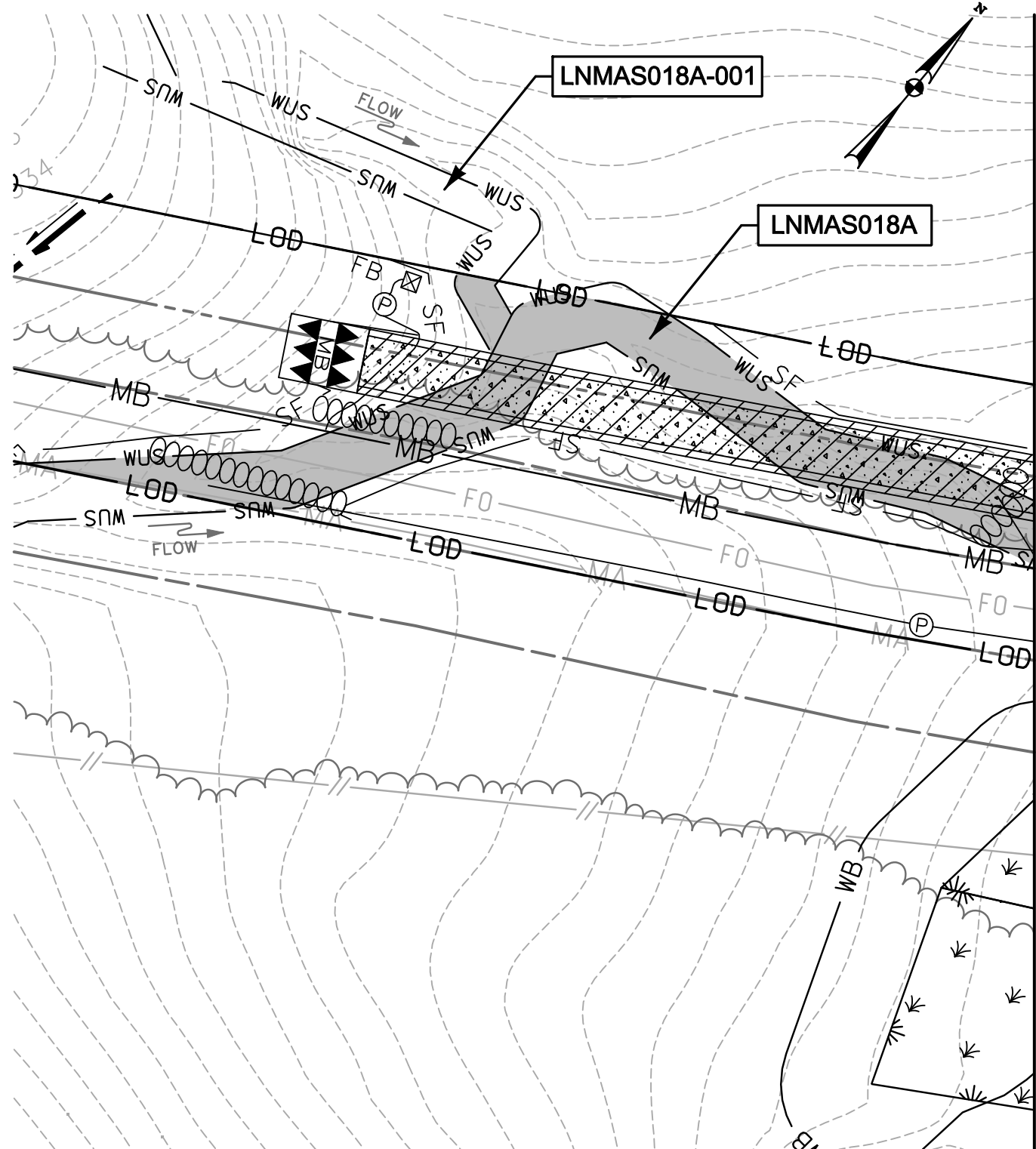
DRAWN BY:  
CSD

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

**IMPACT 31**

LNMA015A; LNMAW006A; LNMA015A-001

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\51-Plate-LINE\_MB-impact31.dgn



MATCHLINE (SEE IMPACT 33)

12-NT-0433/201261660

TEMPORARY WATERS  
 OF U.S. IMPACT  
 4,374 SF./ 0.10 AC./ 285 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 52 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\52-Plate-LINE\_MB-impact32.dgn

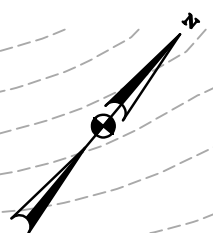


**ENGINEERS**  
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**SCIENTISTS**  
**CONSTRUCTION MANAGERS**  
 936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

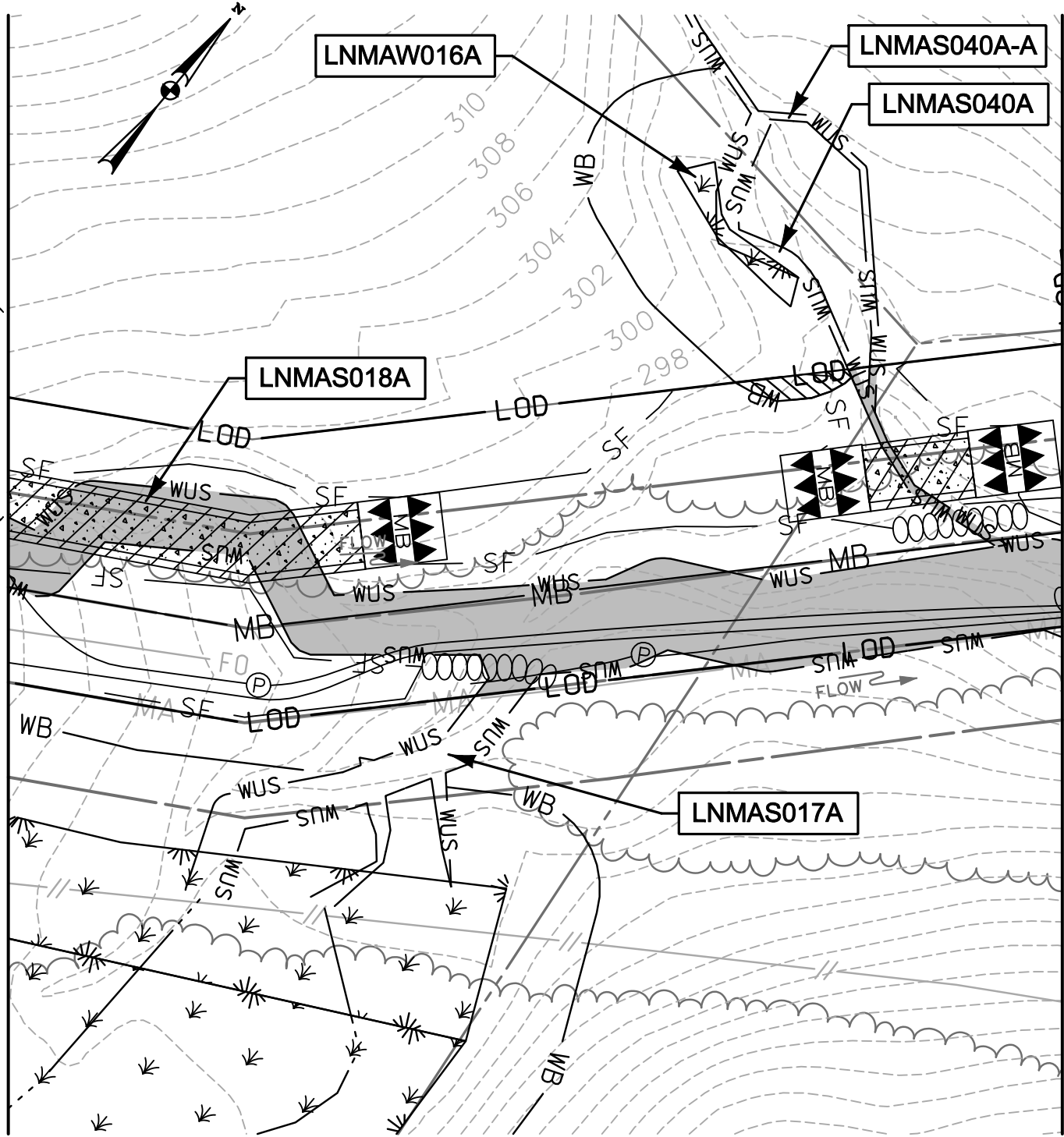
**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
  
**IMPACT 32**  
 LNMAS018A-001; LNMAS018A





MATCHLINE (SEE IMPACT 32)

MATCHLINE (SEE IMPACT 34)



12-NT-0433/201261660

TEMPORARY WATERS OF U.S. IMPACT  
 6,394 SF./ 0.15 AC./ 379 LF.

TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 152 SF./ 0.003 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 53 OF 84

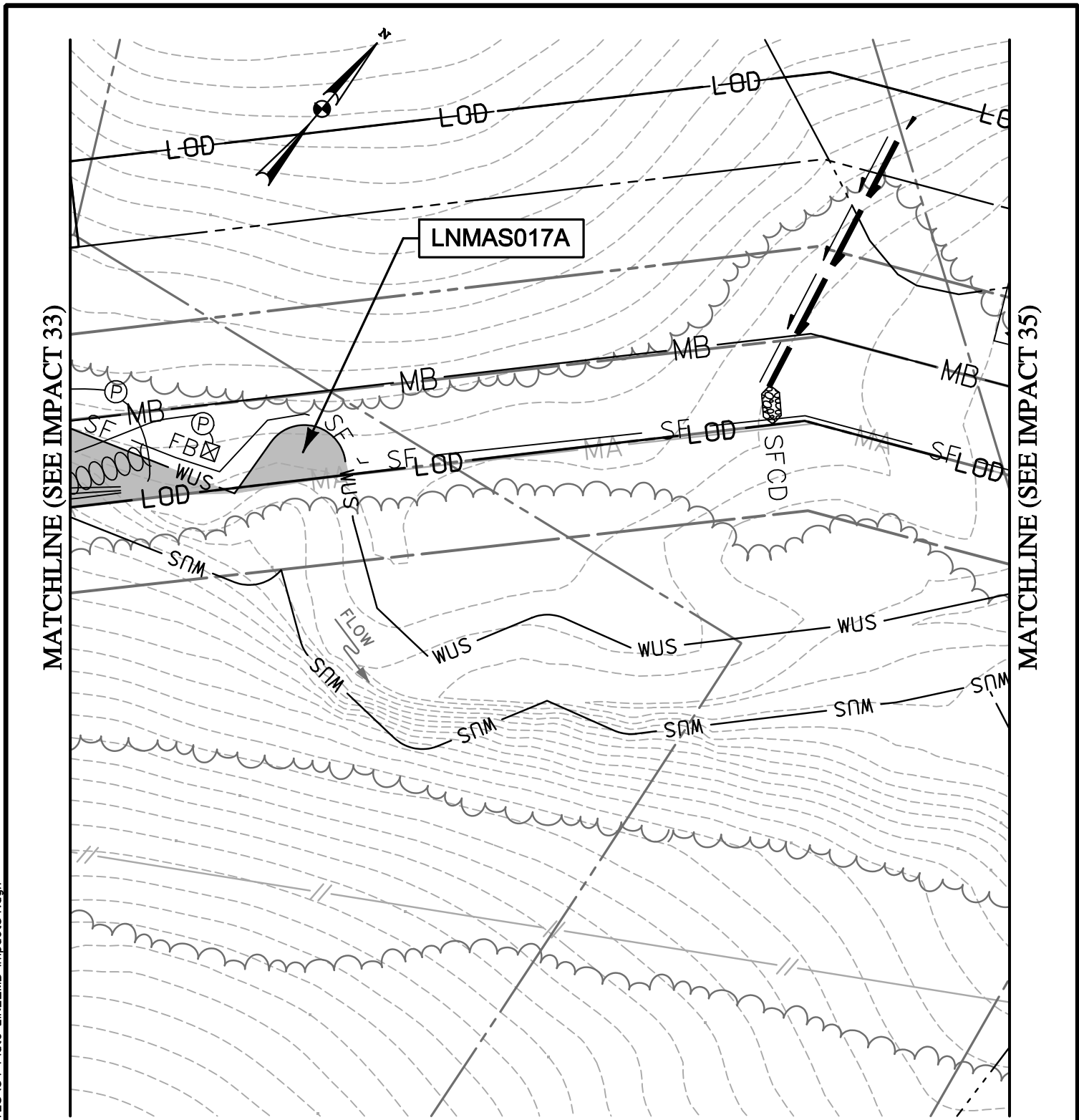
**ENGINEERS**  
**PLANNERS**  
**SCIENTISTS**  
**CONSTRUCTION MANAGERS**

936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
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DATE: REVISED  
 JANUARY 2013  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314  
**IMPACT 33**  
 LNMAW016A; LNMAW017A; LNMAW018A; LNMAW040A; LNMAW040A-A

PLOTTED: 09:32 AM on Wednesday, January 30, 2013  
 BY: Christopher Deibel Division: P050 P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg Drawings\IMPACT\_PLATES\53-Plate-LINE\_MB-impact33.dgn



12-NT-0433/201261660

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 84



ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

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

DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'

DRAWN BY:  
CSD

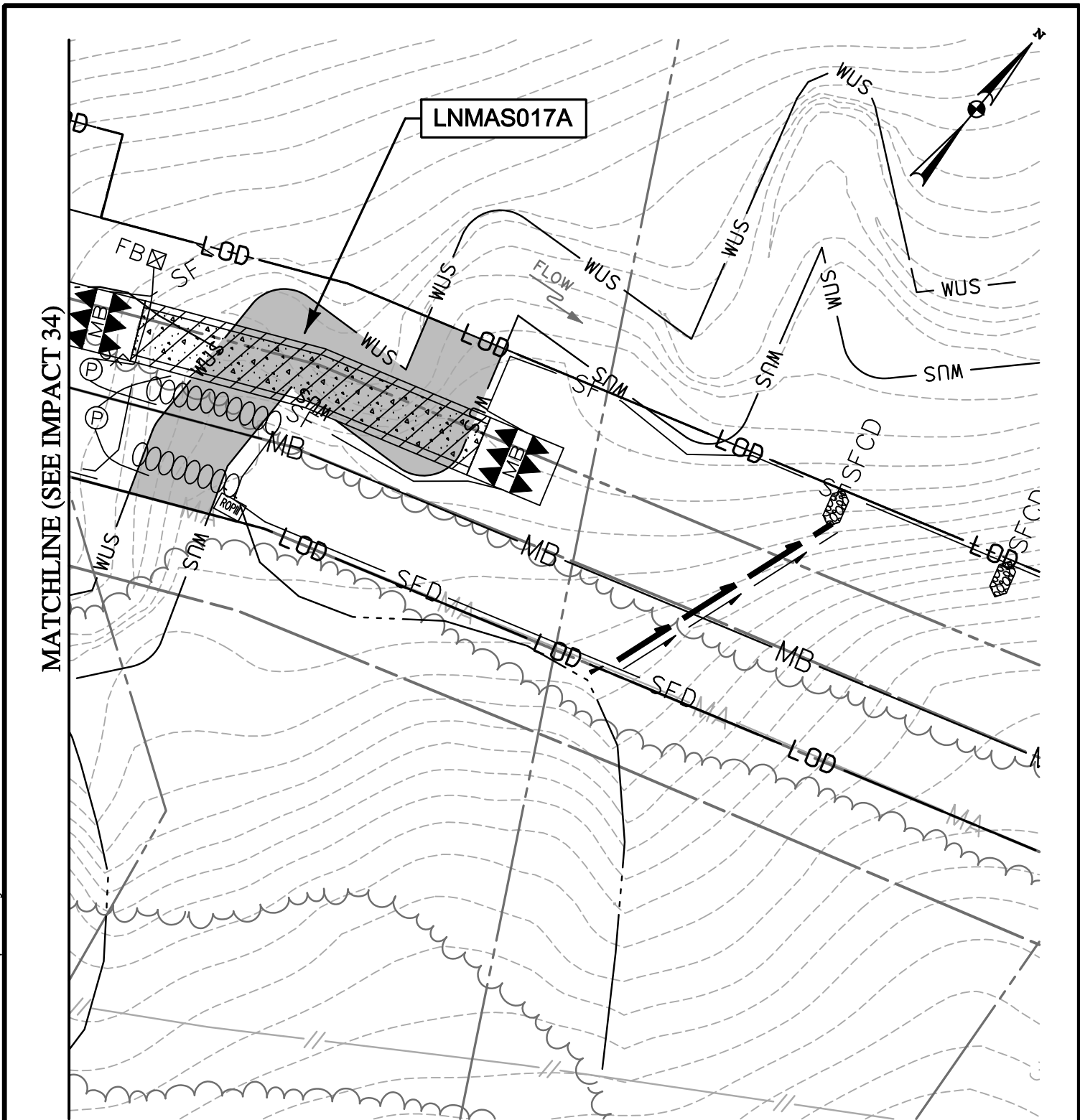
LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

IMPACT 34


LNMA017A

PLOTTED: 11/09/12 09:58 AM on Tuesday, November 06, 2012  
BY: Christopher Deibel Division: P050 Natural Res Emp  
FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\54-Plate-LINE\_MB-impact34.dgn





12-NT-0433/201261660


 TEMPORARY WATERS  
 OF U.S. IMPACT  
 3,934 SF./ 0.08 AC./ 138 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 55 OF 84



ENGINEERS  
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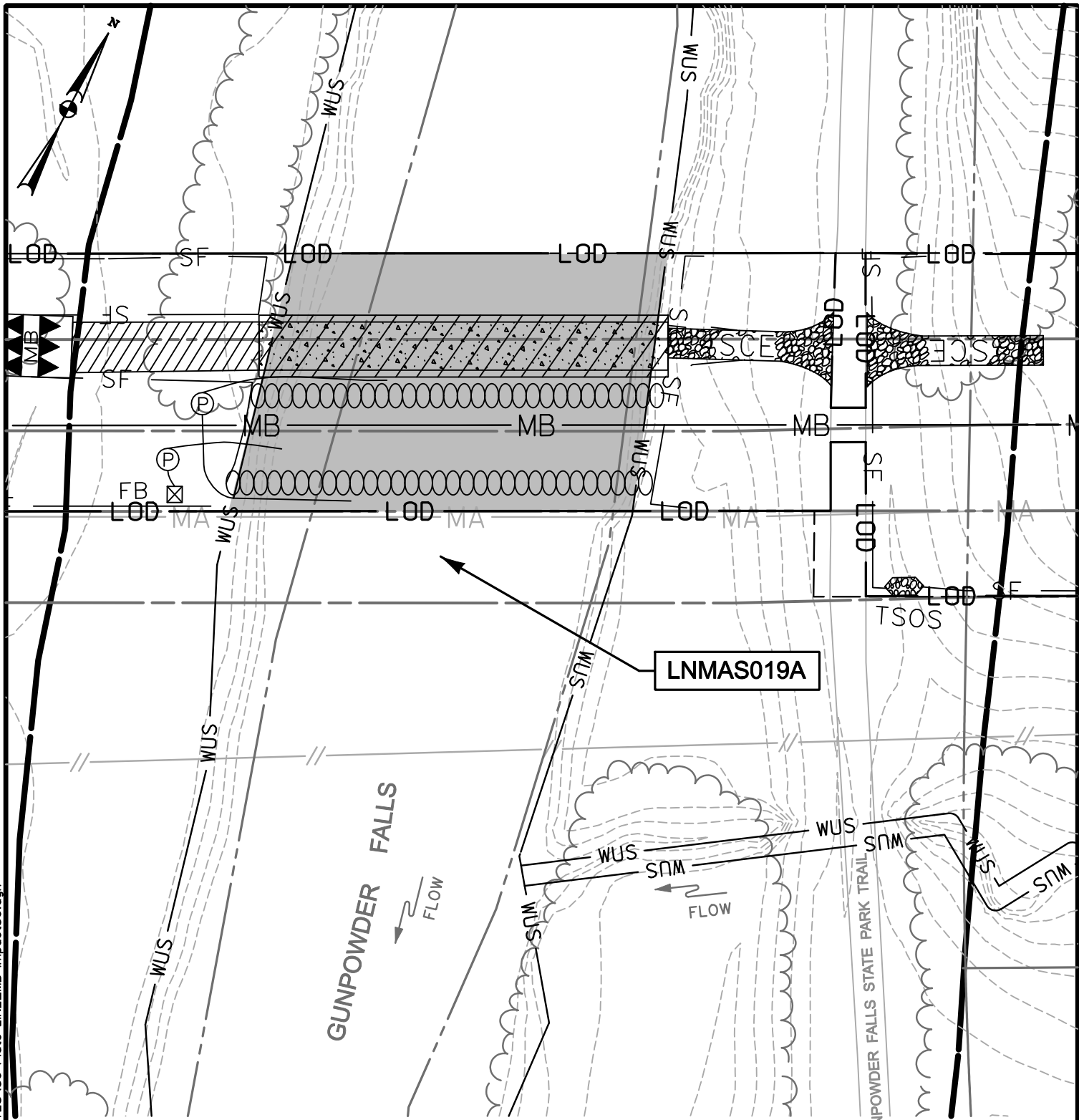
SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

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

**IMPACT 35**

LNMAS017A



12-NT-0433/201261660

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

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 56 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Delbel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\56-Plate-LINE\_MB-impact36.dgn



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 FAX: (410) 316-7818

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NOVEMBER 2012

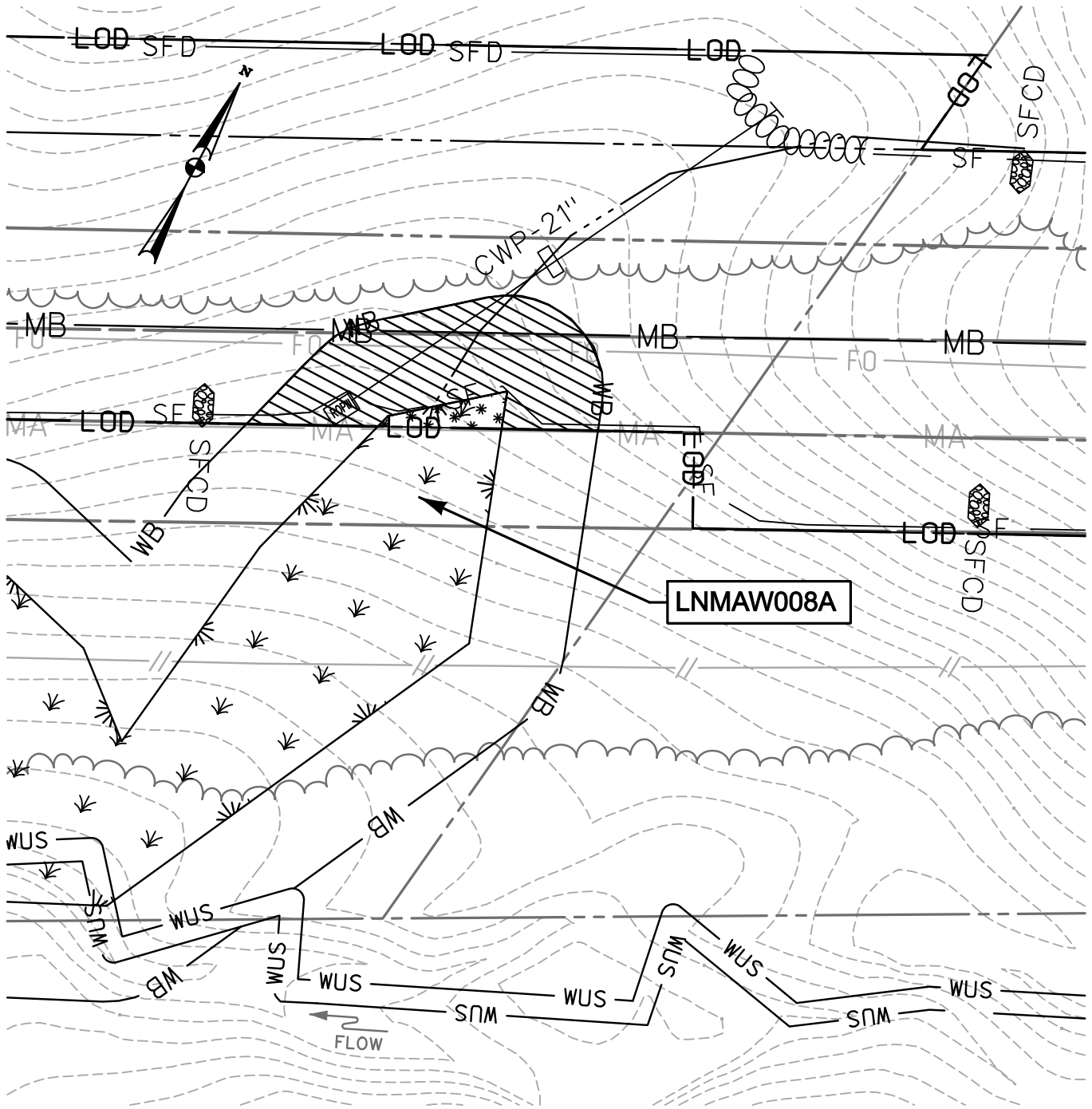
SCALE:  
1" = 40'

DRAWN BY:  
CSD

LINE MB EXTENSION PROJECT  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
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**IMPACT 36**

LNMA019A



12-NT-0433/201261660

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

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 84

PLOTTED: '09:58 AM on Tuesday, November 06, 2012"  
 BY: Christopher Delbel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\57-Plate-LINE\_MB-impac37.dgn



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**CONSTRUCTION MANAGERS**

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

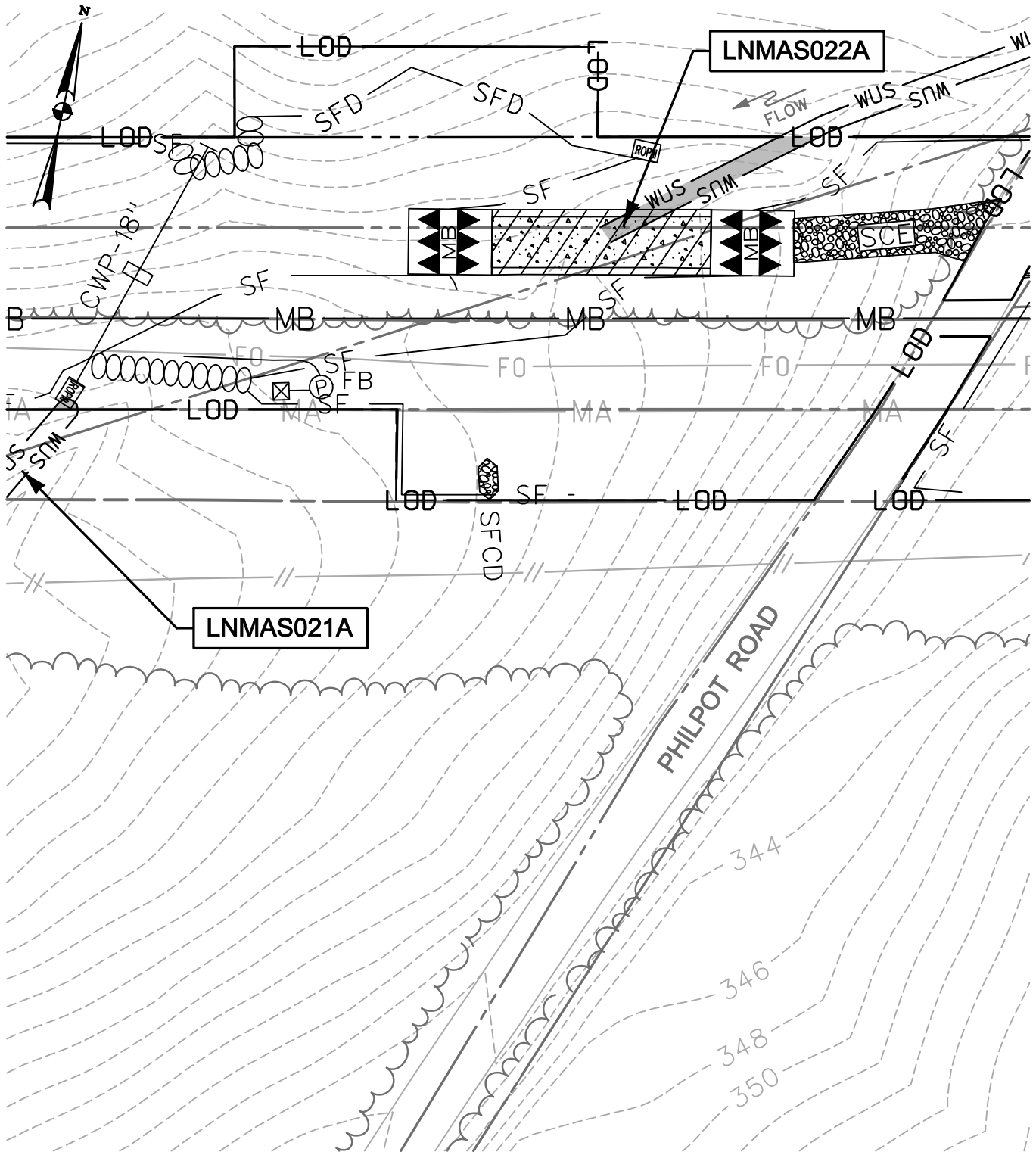
DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'


DRAWN BY:  
 CSD

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

**IMPACT 37**  
 LNMAW008A



12-NT-0433/201261660


 TEMPORARY WATERS  
 OF U.S. IMPACT  
 322 SF./ 0.007 AC./ 60 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 58 OF 84



ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS

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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

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 CSD

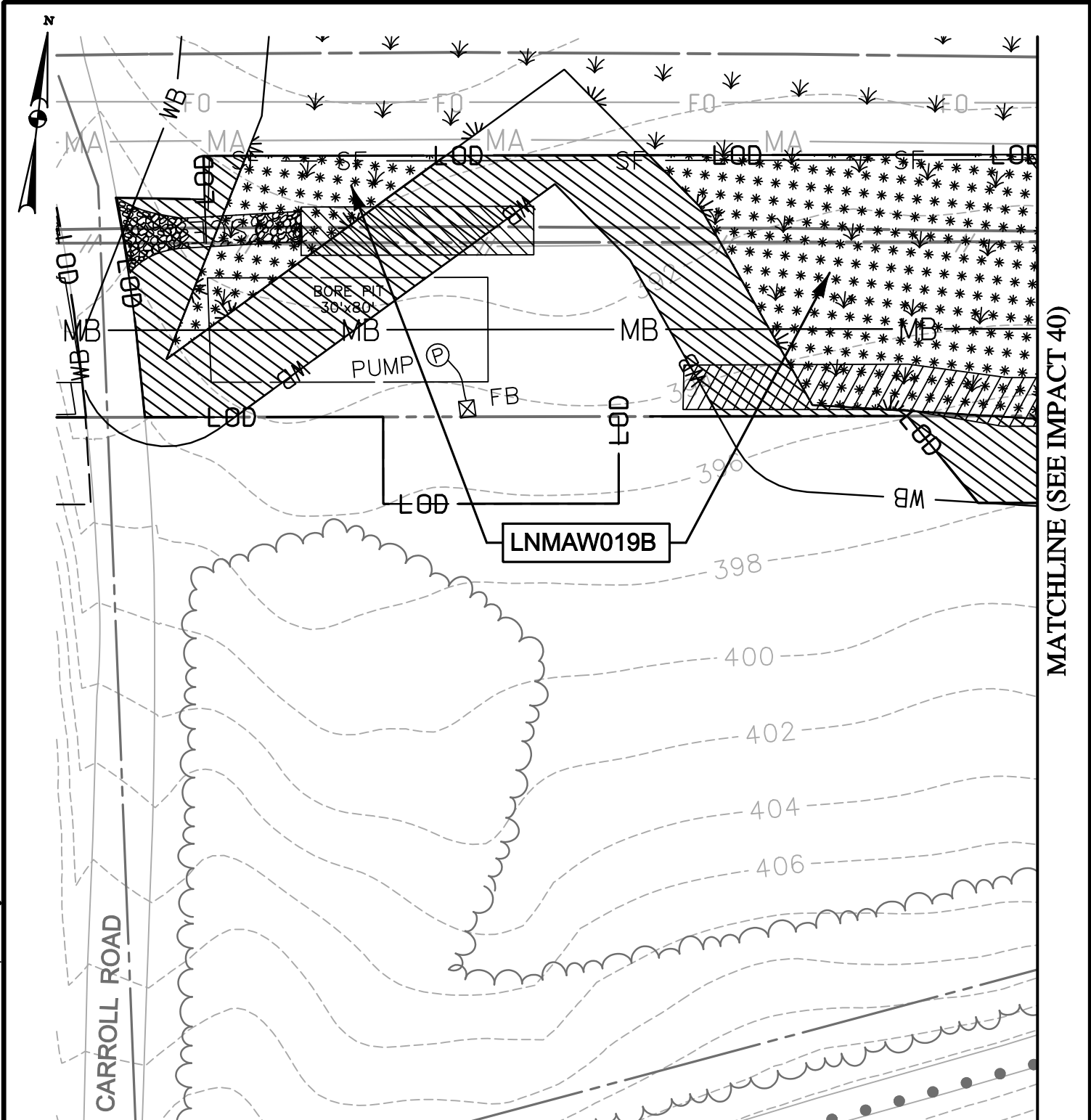
**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 38**

LNMA021A; LNMA022A

PLOTTED: '09:58 AM on Tuesday, November 06, 2012"  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\58-Plate-LINE\_MB-impact38.dgn





12-NT-0433/201261660

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

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

TEMPORARY 25' NON-TIDAL  
 WETLAND BUFFER IMPACT  
 7,422 SF./ 0.17 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 59 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\59-Plate-LINE\_MB-impact39.dgn



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

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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

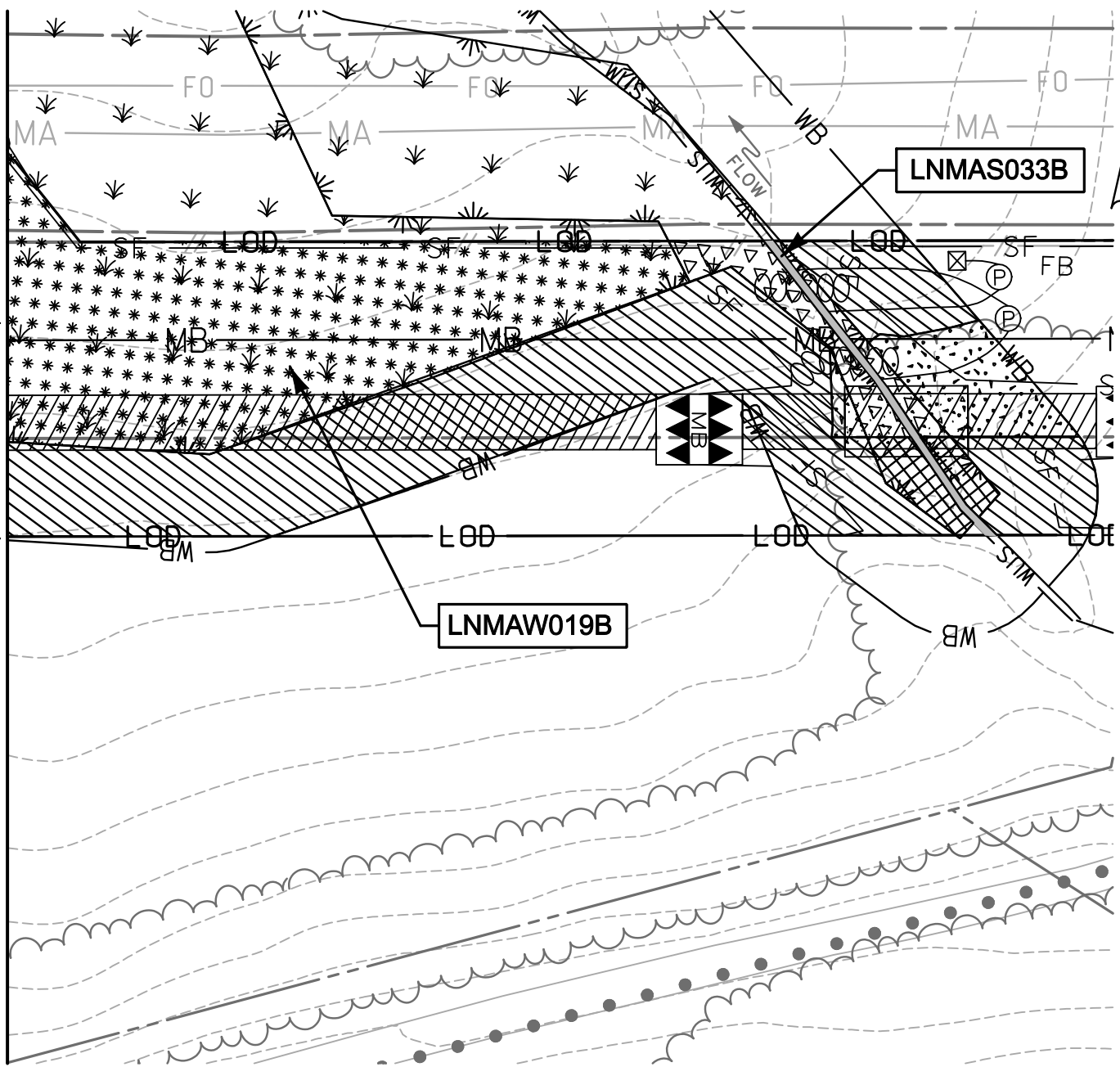
**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 39**  
 LNMAW019B


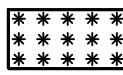
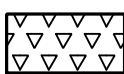

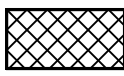
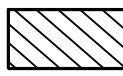




MATCHLINE (SEE IMPACT 39)



12-NT-0433/201261660

-  TEMPORARY WATERS OF U.S. IMPACT  
188 SF./ 0.004 AC./ 94 LF.
-  TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
6,884 SF./ 0.16 AC.
-  NON-TIDAL PSS WETLAND CONVERSION IMPACT  
761 SF./ 0.02 AC.
-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
822 SF./ 0.02 AC.
-  TEMPORARY NON-TIDAL PSS WETLAND IMPACT  
443 SF./ 0.01 AC.
-  TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
7,858 SF./ 0.18 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 60 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
BY: Christopher Deibel/Division: P050 Natural Res Emp  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\60-Plate-LINE\_MB-impact40.dgn



ENGINEERS  
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SCIENTISTS  
CONSTRUCTION MANAGERS

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FAX: (410) 316-7818

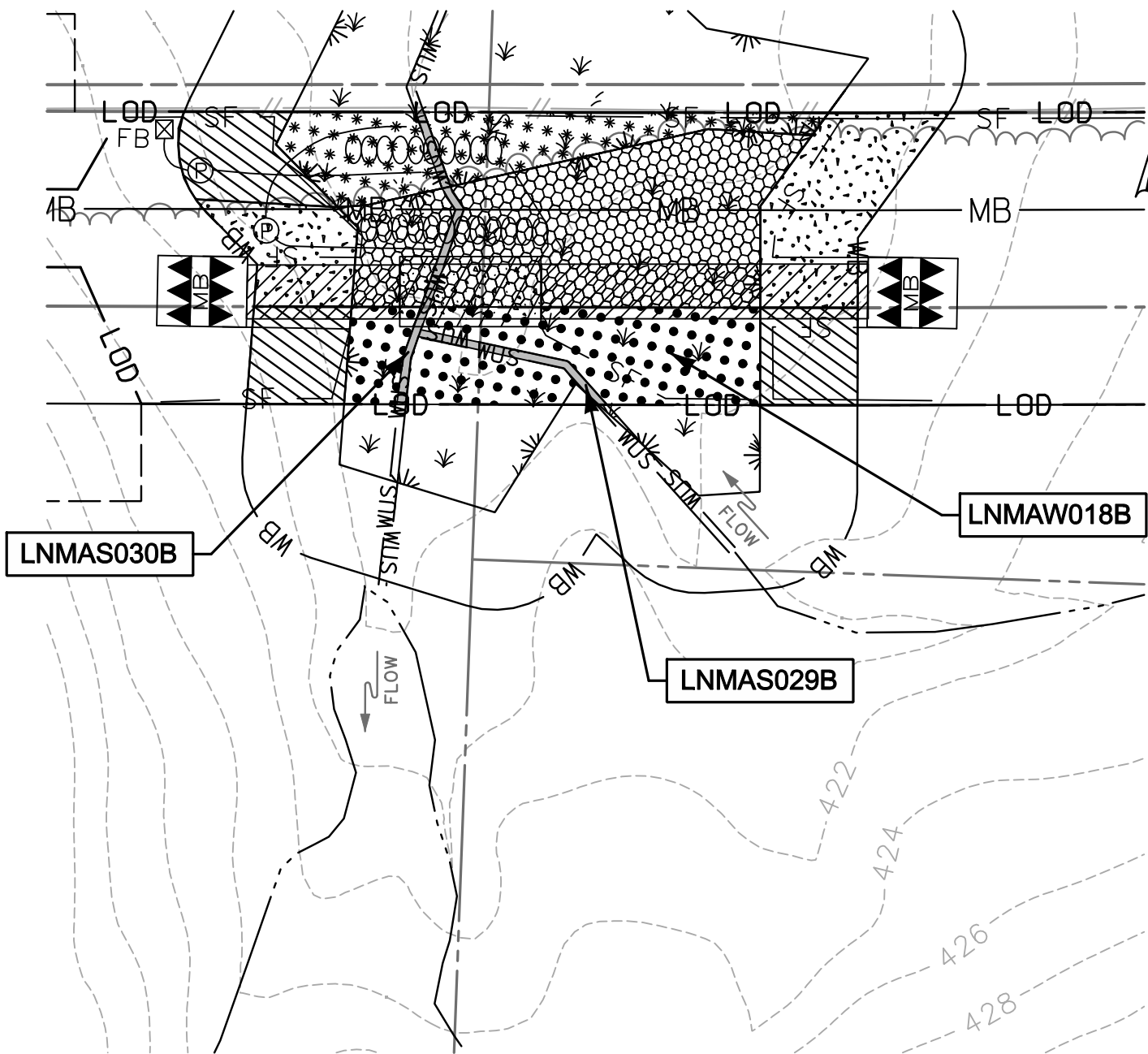
DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'


DRAWN BY:  
CSD

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

**IMPACT 40**  
LNMAW033B; LNMAW019B



12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
263 SF./ 0.006 AC./ 133 LF.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
1,761 SF./ 0.04 AC.

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
3,906 SF./ 0.09 AC.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
2,268 SF./ 0.05 AC.

 TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
2,466 SF./ 0.06 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,888 SF./ 0.04 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 61 OF 84



ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

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

DATE:  
NOVEMBER 2012

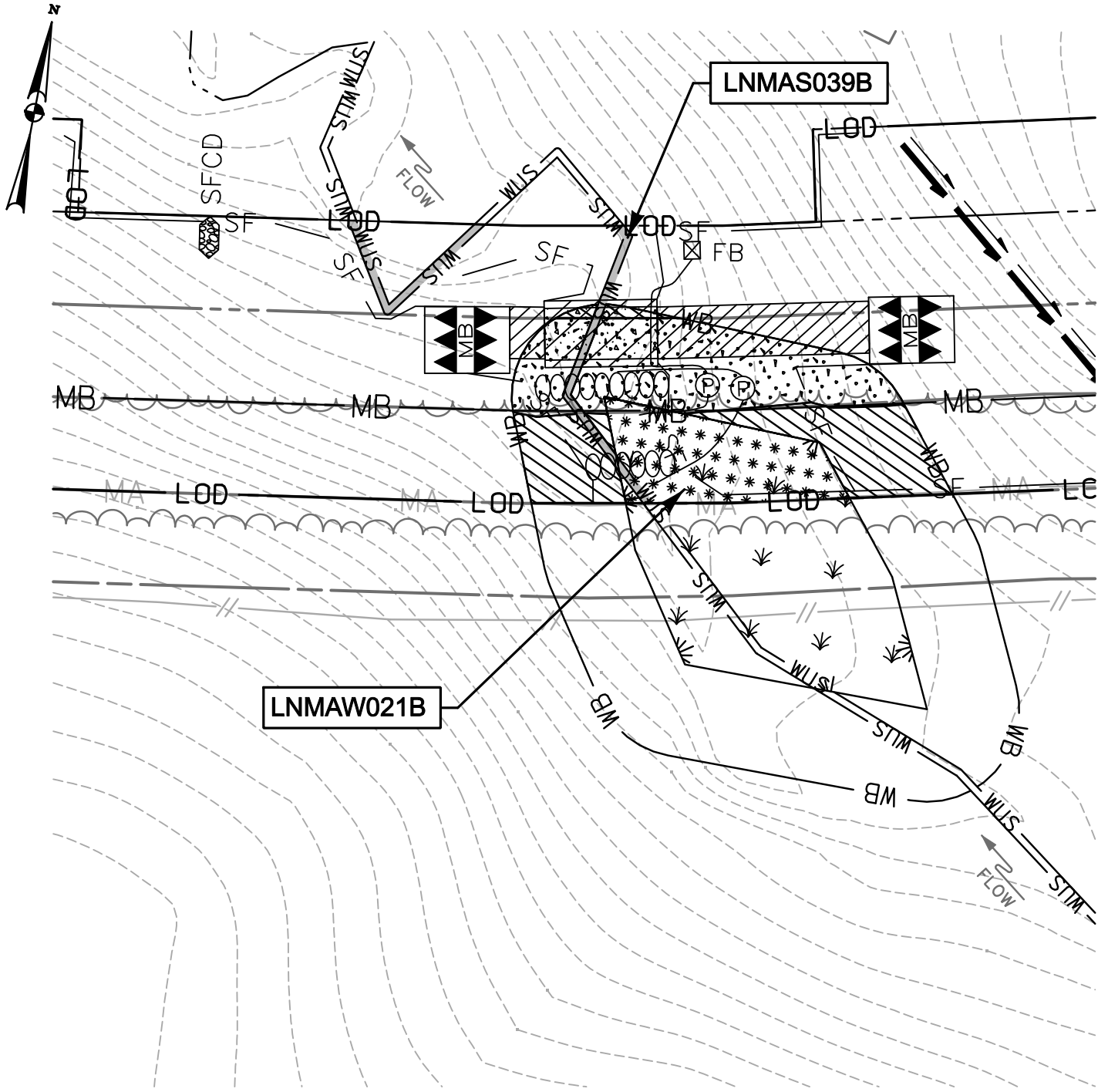
SCALE:  
1" = 40'

DRAWN BY:  
CSD


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

**IMPACT 41**

LNMA030B; LNMA029B; LNMAW018B



12-NT-0433/201261660

 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 84

PLOTTED: '09:58 AM on Tuesday, November 06, 2012"  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\62-Plate-LINE\_MB-impact42.dgn



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

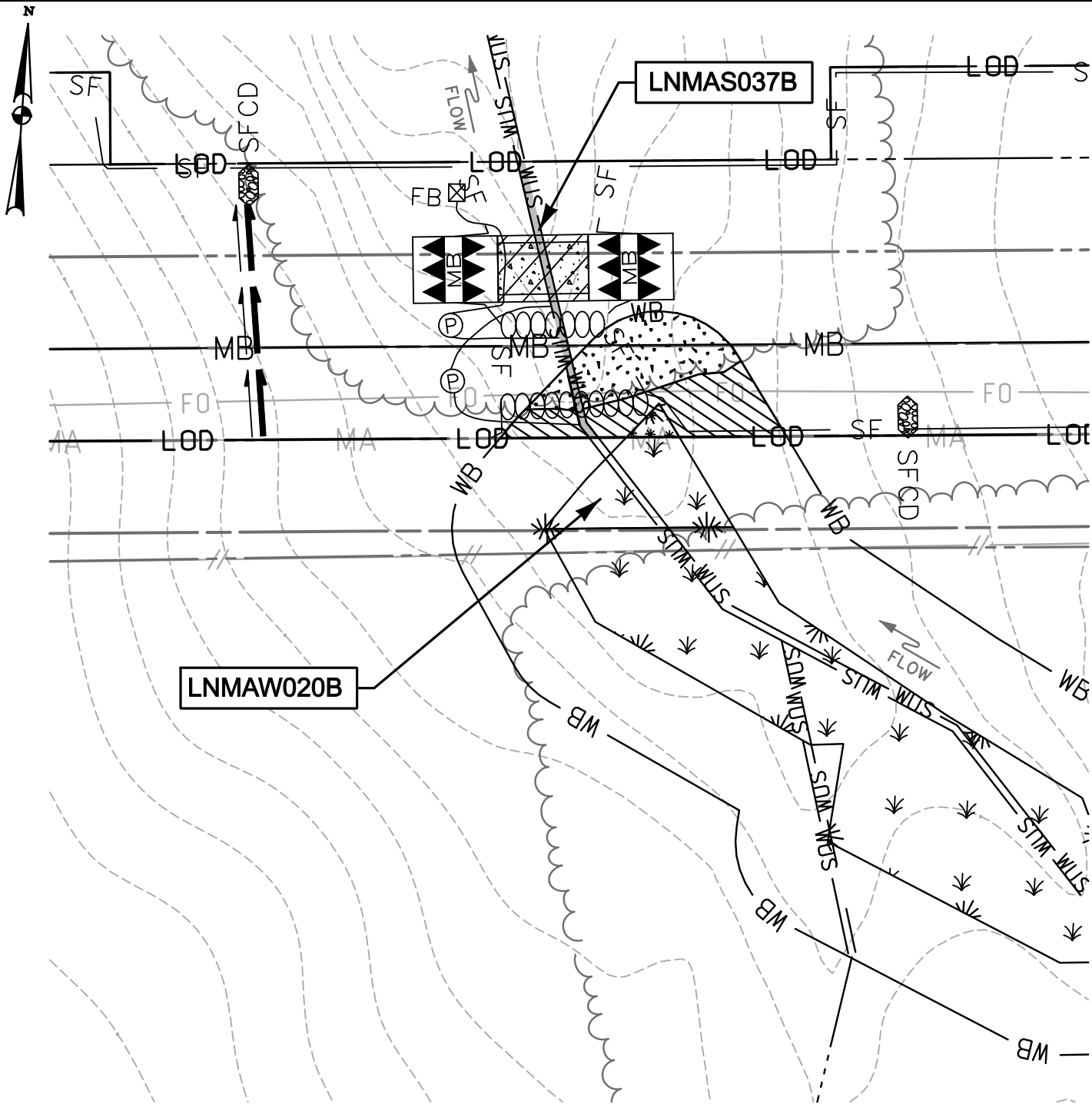
936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD


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

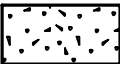
**IMPACT 42**  
 LNMA039B; LNMAW021B






12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
156 SF./ 0.004 AC./ 78 LF.

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

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
65 SF./ 0.001 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 84



ENGINEERS  
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SCIENTISTS  
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FAX: (410) 316-7818

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NOVEMBER 2012

SCALE:  
1" = 40'

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CSD

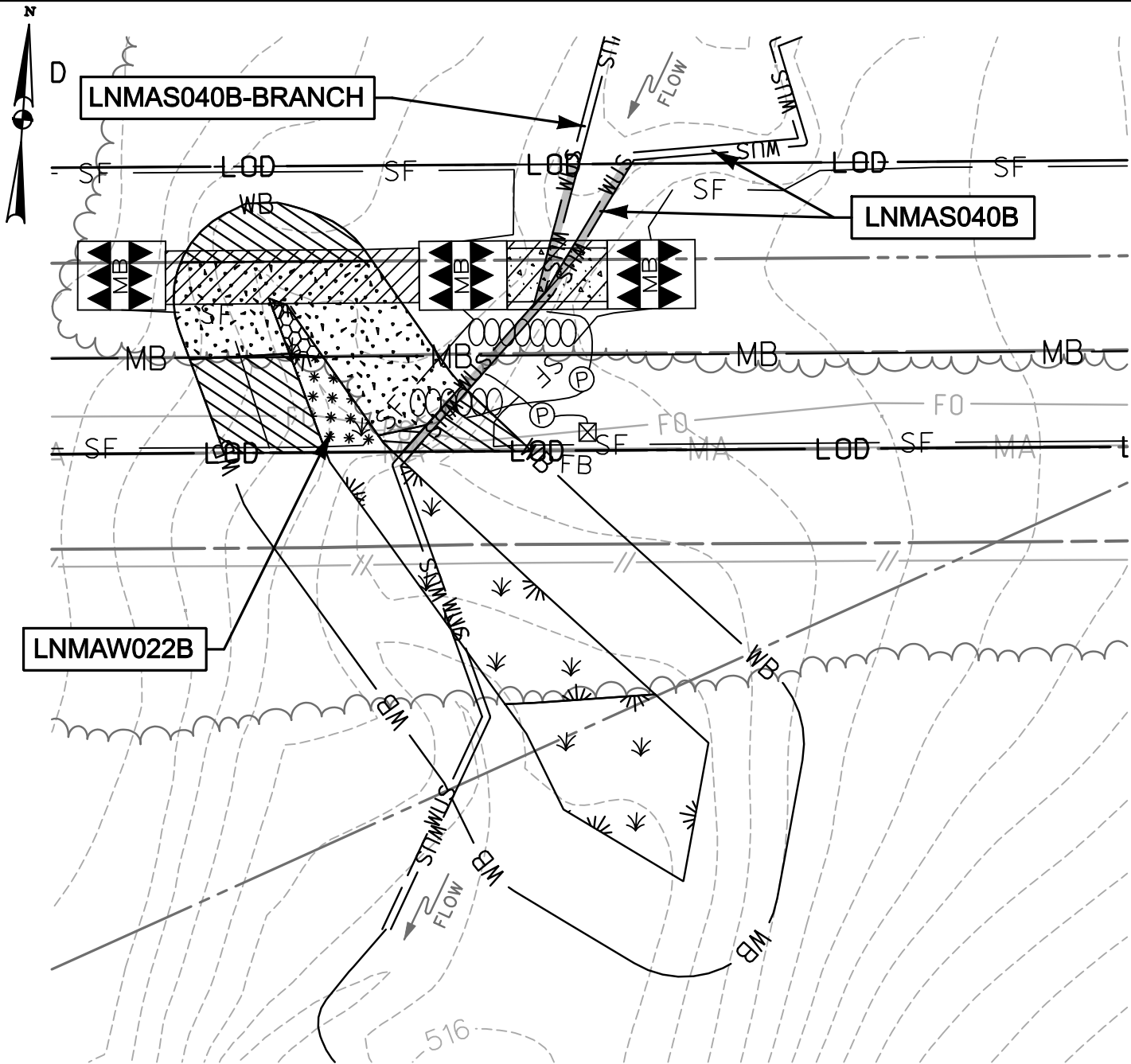
LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

**IMPACT 44**


LNMA037B; LNMAW020B

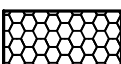
PLOTTED: 10:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\64-Plate-LINE\_MB-impact44.dgn





12-NT-0433/201261660

 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 84



ENGINEERS  
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CONSTRUCTION MANAGERS

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FAX: (410) 316-7818

DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'

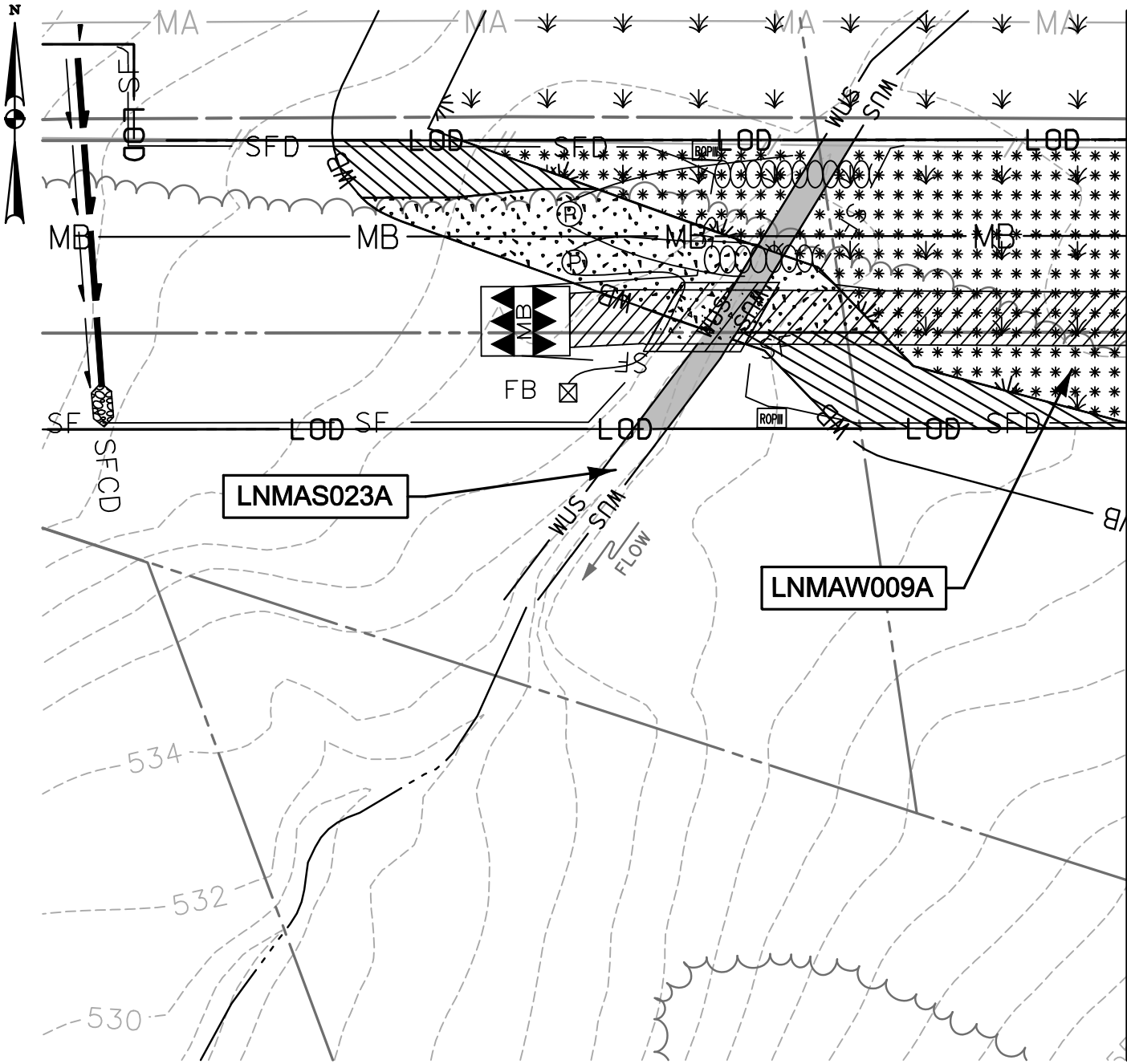
DRAWN BY:  
CSD

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

**IMPACT 45**

LNMA040B; LNMA040B-BRANCH; LNMAW022B

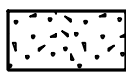
PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\Drawings\IMPACT\_PLATES\65-Plate-LINE\_MB-impact45.dgn



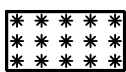
12-NT-0433/201261660



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 84



ENGINEERS  
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FAX: (410) 316-7818

DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'

DRAWN BY:  
CSD

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

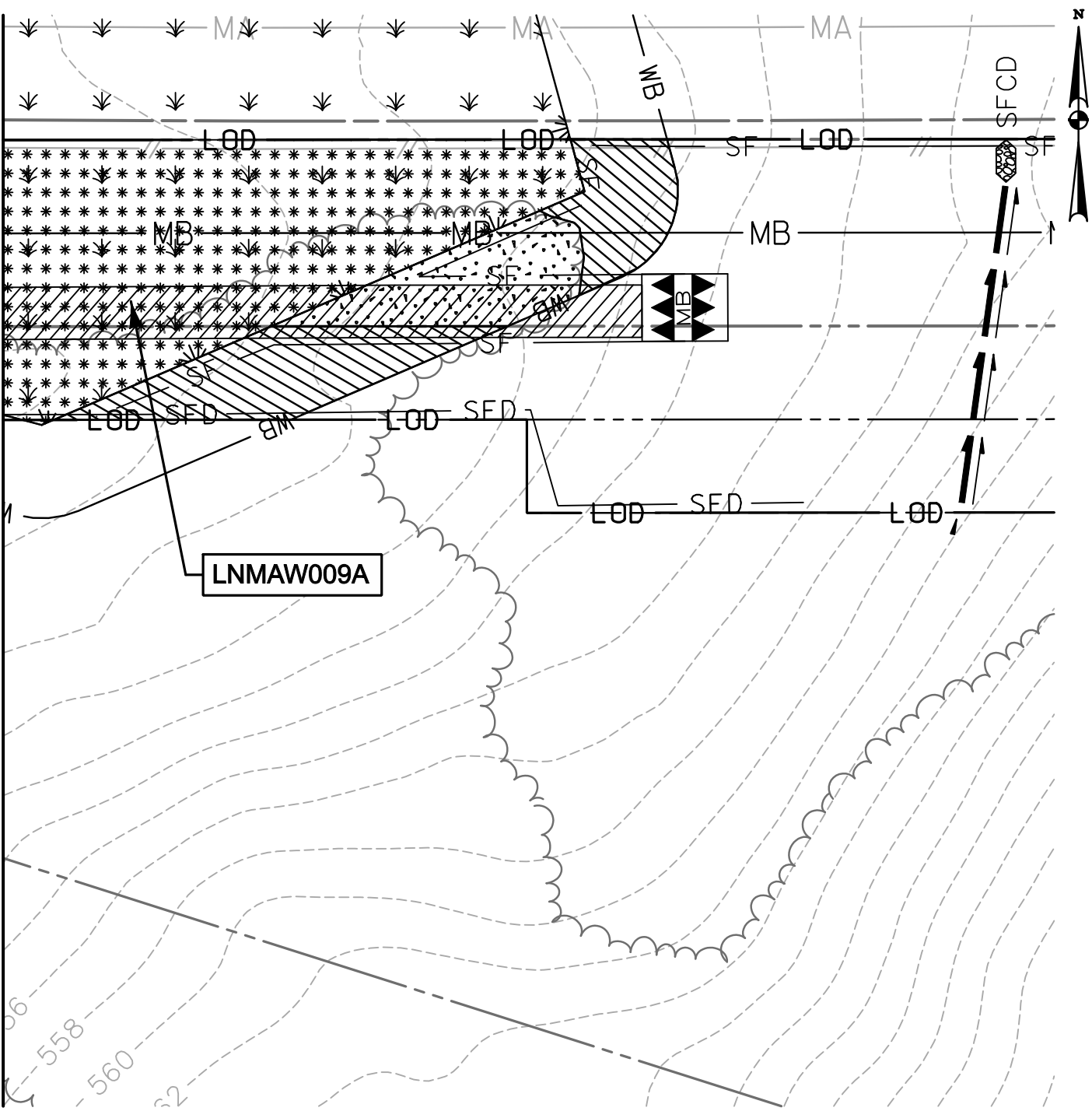
**IMPACT 46**

LNMA023A; LNMAW009A

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\66-Plate-LINE\_MB-impact46.dgn

PLOTTED: '09:58 AM on Tuesday, November 06, 2012"  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\67-Plate-LINE\_MB-impact47.dgn

MATCHLINE (SEE IMPACT 46)



12-NT-0433/201261660

\*\*\*\*\* 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 84

**ENGINEERS  
 PLANNERS  
 SCIENTISTS  
 CONSTRUCTION MANAGERS**

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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

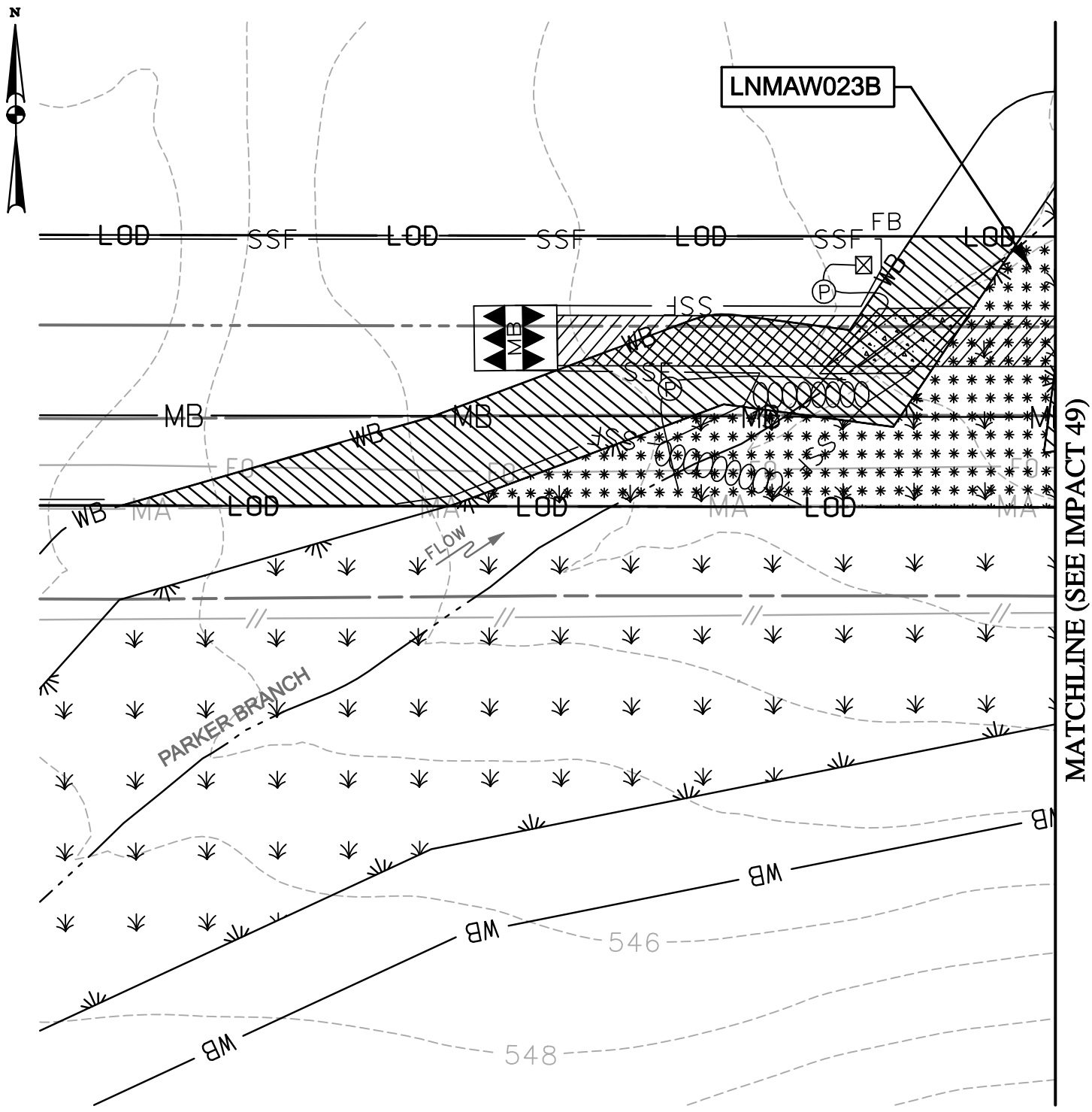
SCALE:  
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DRAWN BY:  
 CSD

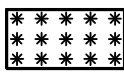
**LINE MB EXTENSION PROJECT**  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 47**  
 LNMAW009A

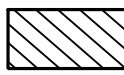
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 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\68-Plate-LINE\_MB-impact48.dgn



12-NT-0433/201261660



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 84



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

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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

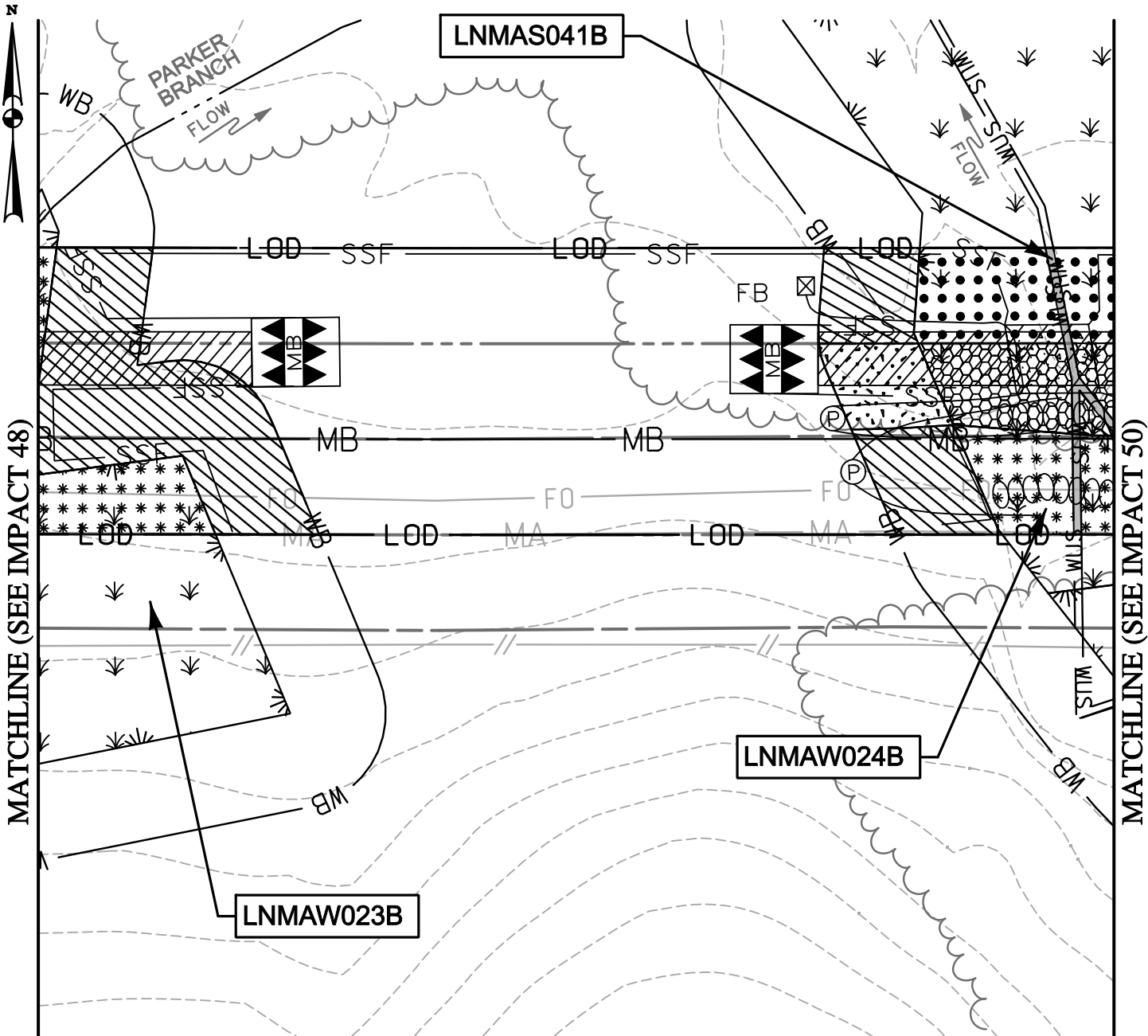
SCALE:  
 1" = 40'

DRAWN BY:  
 CSD


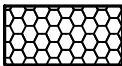

**LINE MB EXTENSION PROJECT**  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 48**

LNMAW023B



12-NT-0433/201261660

-  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 84

PLOTTED: 11/09/12 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\69-Plate-LINE\_MB-impact49.dgn



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

DATE:  
NOVEMBER 2012

SCALE:  
1" = 40'

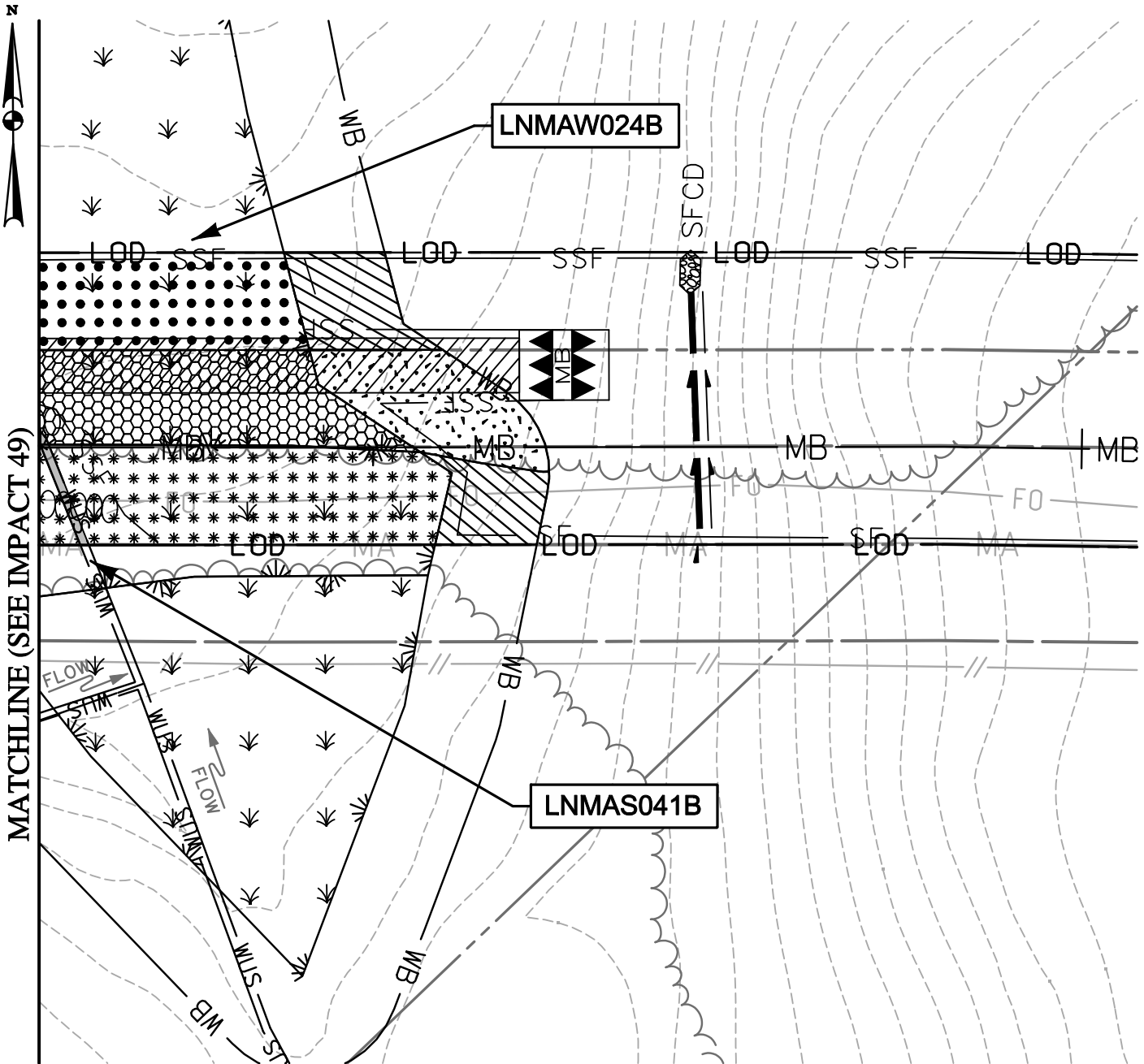
DRAWN BY:  
CSD

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


**IMPACT 49**

LNMAW041B; LNMAW023B; LNMAW024B





12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
61 SF./ 0.001 AC./ 30 LF.

 NON-TIDAL PFO WETLAND CONVERSION IMPACT  
1,944 SF./ 0.04 AC.

 TEMPORARY NON-TIDAL PFO WETLAND IMPACT  
1,652 SF./ 0.04 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
2,552 SF./ 0.06 AC.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,088 SF./ 0.02 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,269 SF./ 0.03 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 70 OF 84



ENGINEERS  
PLANNERS  
SCIENTISTS  
CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD  
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FAX: (410) 316-7818

DATE:  
NOVEMBER 2012

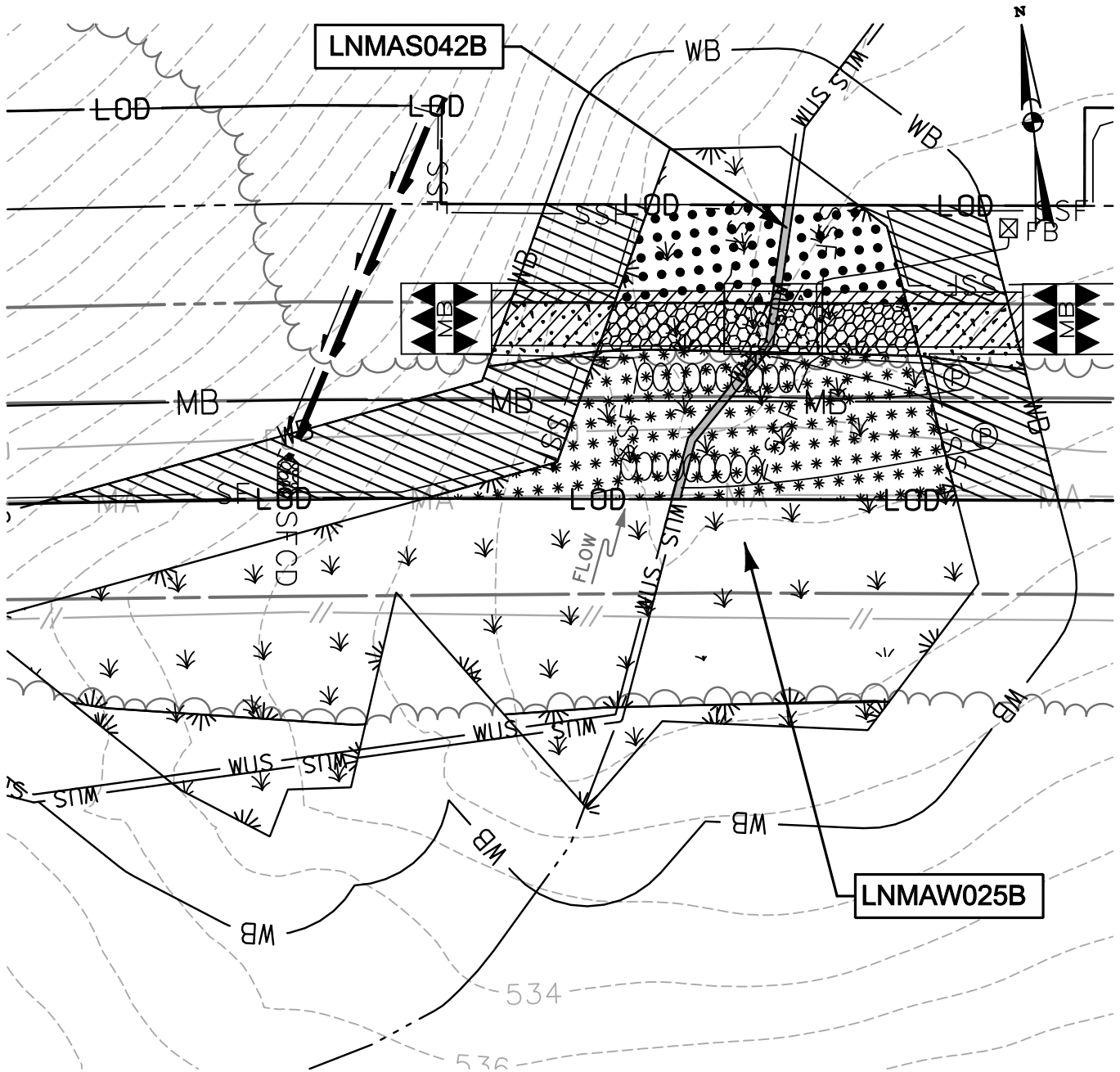
SCALE:  
1" = 40'

DRAWN BY:  
CSD


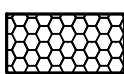

LINE MB EXTENSION PROJECT  
NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
1700 MacCORKLE AVE, SE  
CHARLESTON, WV 25314

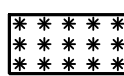


**IMPACT 50**  
LNMAS041B; LNMAW024B

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
BY: Christopher Deibel Division: P050 Natural Res Emp  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\70-Plate-Line\_MB-impact50.dgn



12-NT-0433/201261660

-  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 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.drw\drawings\IMPACT\_PLATES\71-Plate-LINE\_MB-impact51.dgn



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

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 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

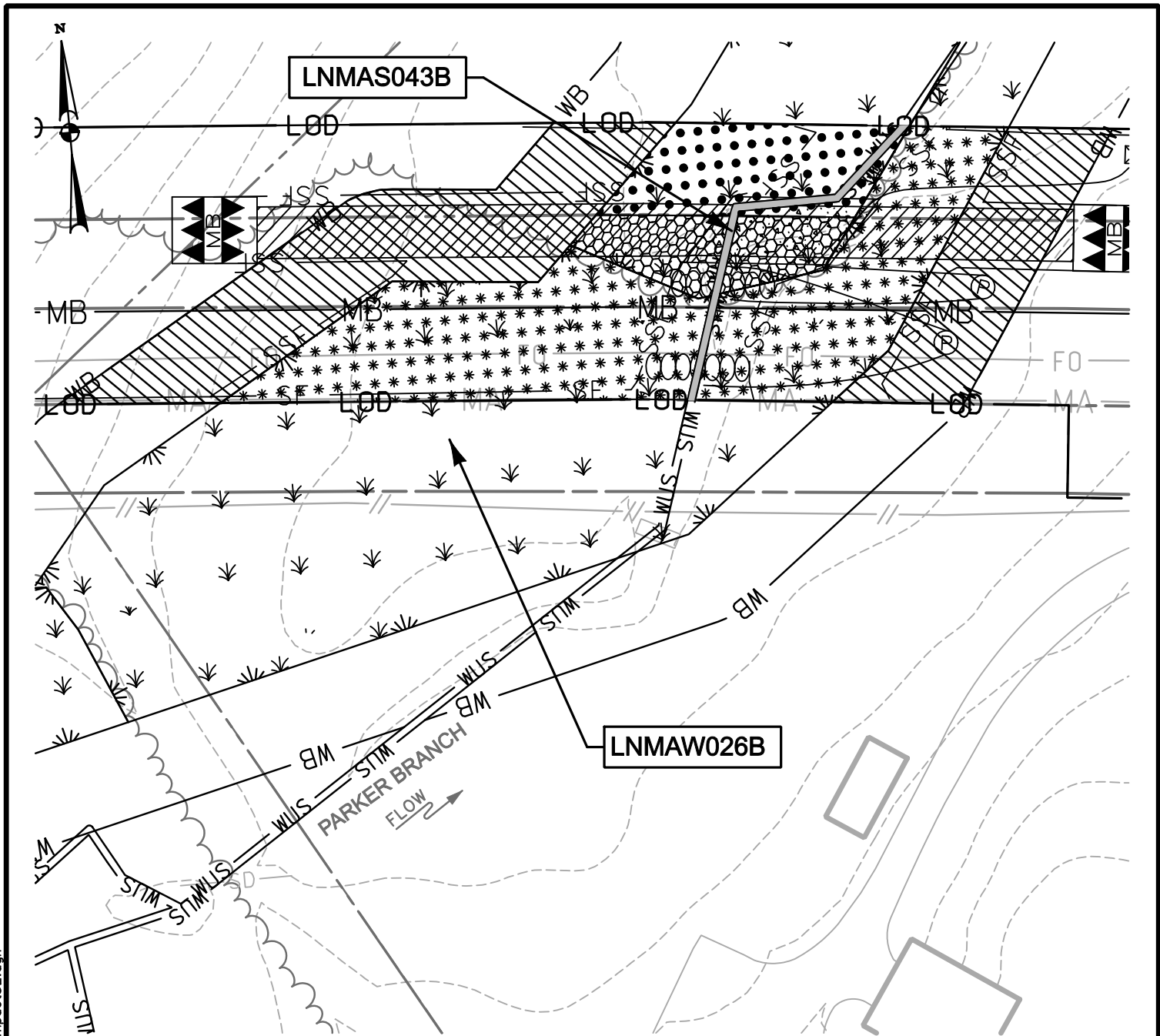
SCALE:  
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DRAWN BY:  
 CSD


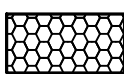

**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

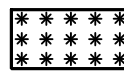
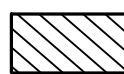
**IMPACT 51**

LNMAW025B; LNMAW025B



12-NT-0433/201261660

-  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 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\72-Plate-LINE\_MB-impact52.dgn



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

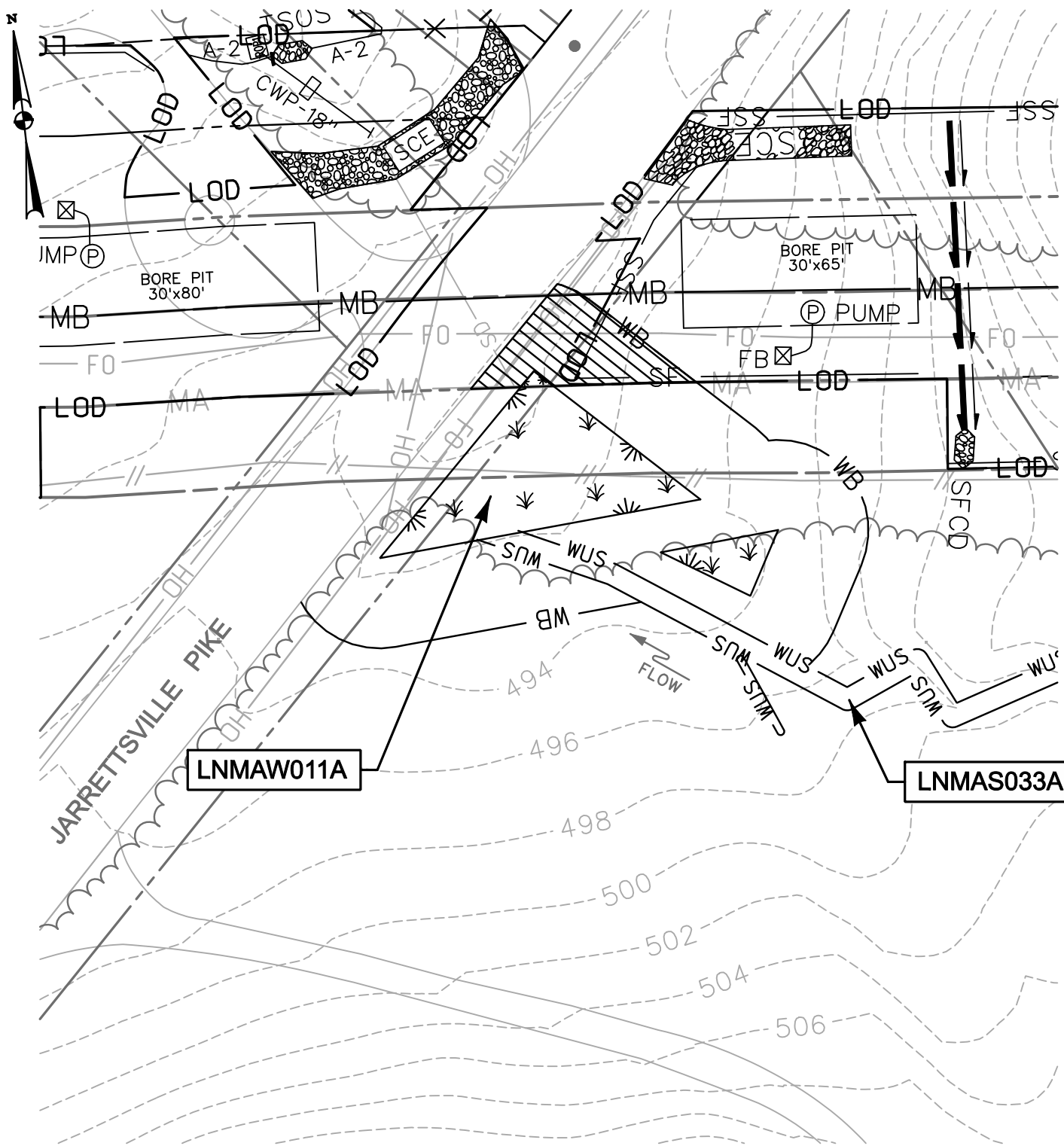
936 RIDGEBROOK ROAD  
 SPARKS, MARYLAND 21152  
 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

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

**IMPACT 52**

LNMA043B; LNMAW026B



12-NT-0433/201261660

\*\*\*\*\* 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 84

PLOTTED: 08:25 AM on Wednesday, November 07, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\IMPACT\_PLATES\73-Plate-LINE\_MB-impact53.dgn



ENGINEERS  
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 SCIENTISTS  
 CONSTRUCTION MANAGERS

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 FAX: (410) 316-7818

DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'

DRAWN BY:  
 CSD

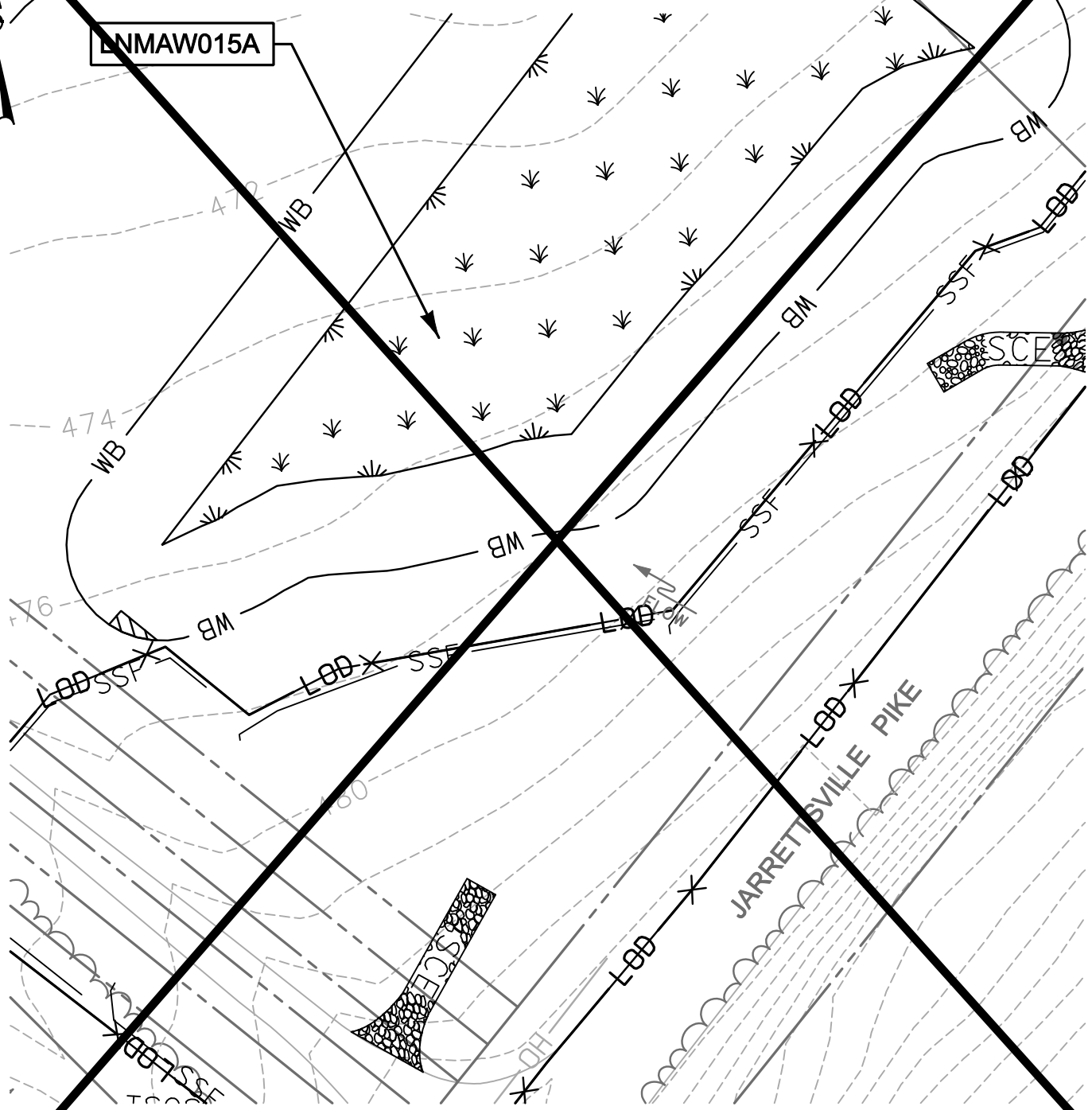
LINE MB EXTENSION PROJECT  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
 1700 MacCORKLE AVE, SE  
 CHARLESTON, WV 25314

**IMPACT 53**  
 LNMAW011A; LNMAAS033A



# IMPACT 53A ( IMPACT ELIMINATED )

LNMAW015A



12-NT-0433/201261660



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
38 SF. / 0.0009 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 74 OF 84

PLOTTED: 08:53 AM on Wednesday, January 23, 2013  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg drawings\IMPACT\_PLATES\74-Plate-LINE\_MB-impact53A.dgn



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

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 TELEPHONE: (410) 316-7800  
 FAX: (410) 316-7818

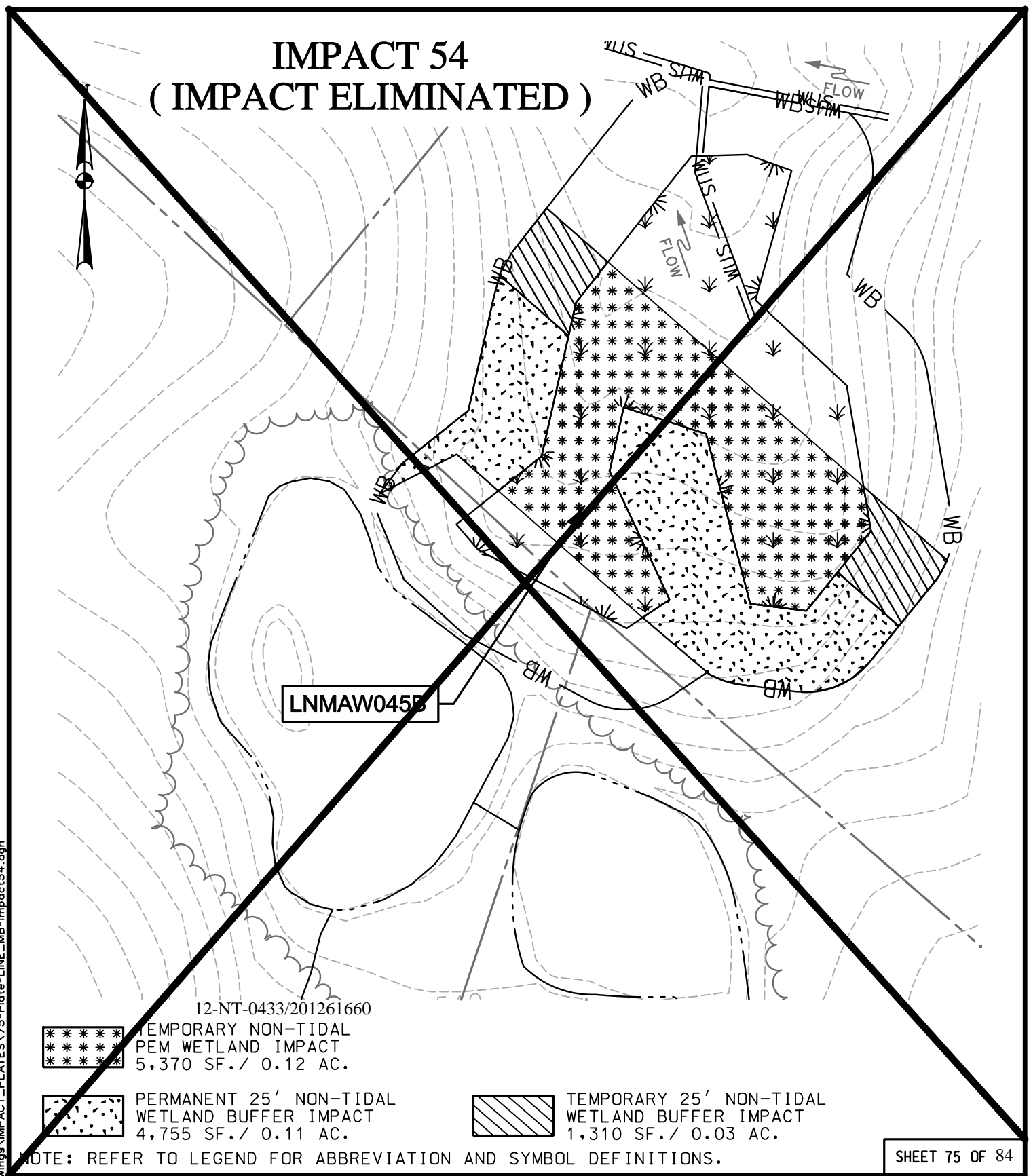
DATE: REVISED  
 JANUARY 2013  
 SCALE:  
 1" = 40'  
 DRAWN BY:  
 CSD

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

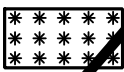
**IMPACT 53A**  
 LNMAW015A



# IMPACT 54 (IMPACT ELIMINATED)



12-NT-0433/201261660



TEMPORARY NON-TIDAL  
PEM WETLAND IMPACT  
5,370 SF./ 0.12 AC.



PERMANENT 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
4,755 SF./ 0.11 AC.



TEMPORARY 25' NON-TIDAL  
WETLAND BUFFER IMPACT  
1,310 SF./ 0.03 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 75 OF 84

PLOTTED: 08:53 AM on Wednesday, January 23, 2013  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849.dwg\drawings\IMPACT\_PLATES\75-Plate-LINE\_MB-impact54.dgn



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DATE: REVISED  
JANUARY 2013

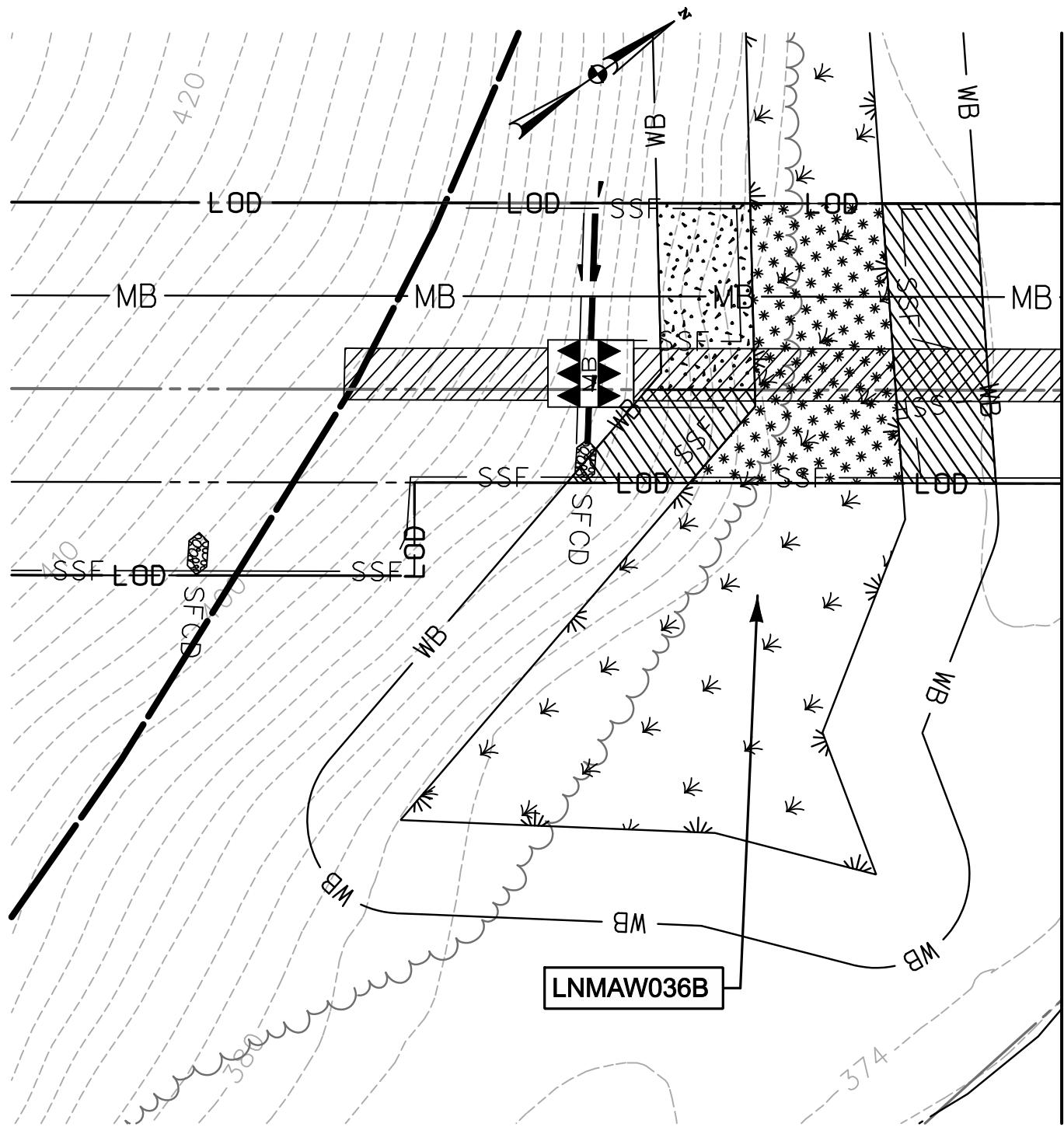
SCALE:  
1" = 40'

DRAWN BY:  
CSD

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

## IMPACT 54

LNMAW045B



12-NT-0433/201261660

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

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 76 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\76-Plate-LINE\_MB-impact55.dgn



**KCI**  
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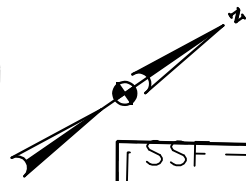
SCALE:  
 1" = 40'

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 CSD

LINE MB EXTENSION PROJECT  
 NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC  
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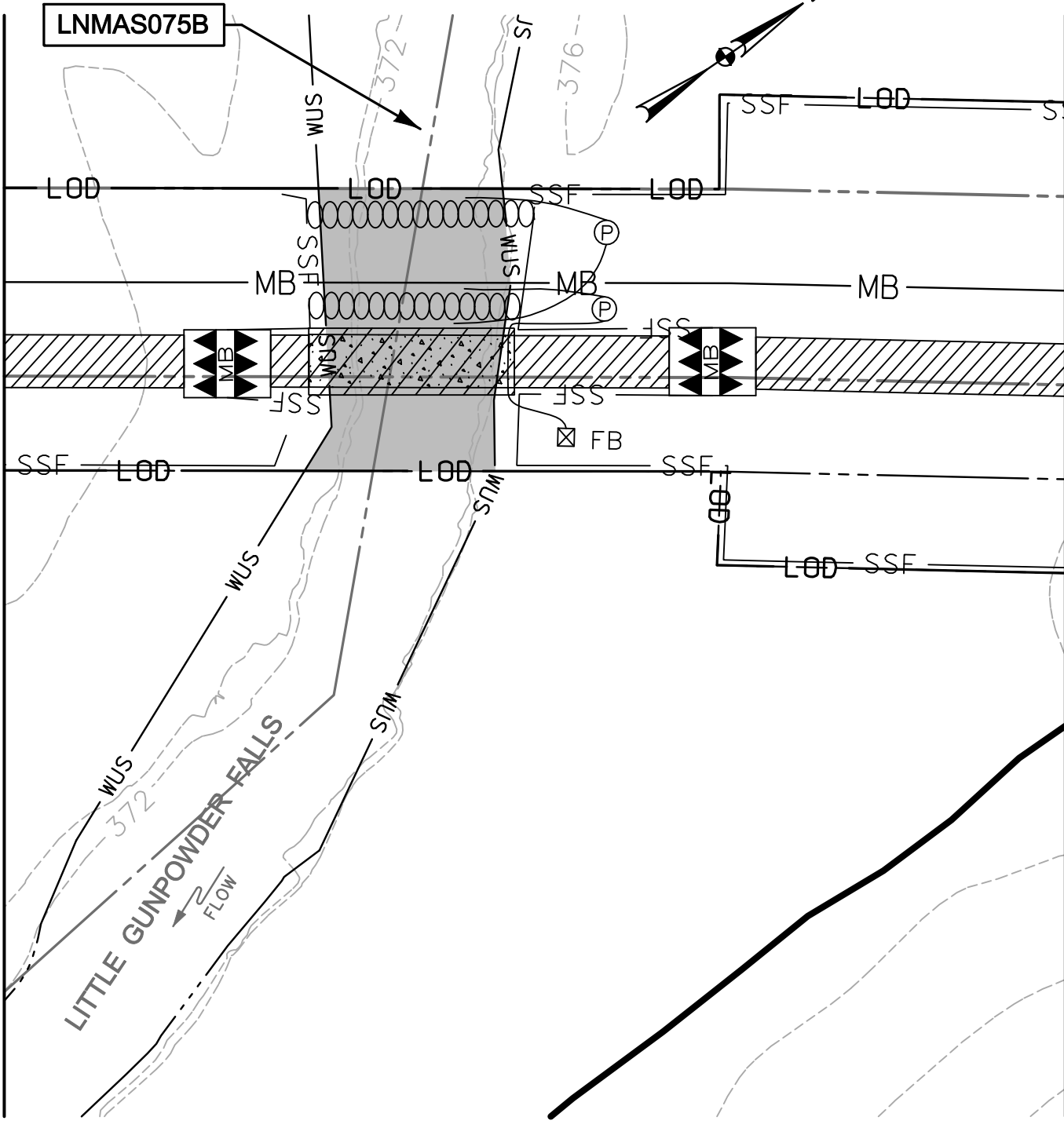
**IMPACT 55**  
 LNMAW036B

LNMAS075B



MATCHLINE (SEE IMPACT 55)

MATCHLINE (SEE IMPACT 55B)



12-NT-0433/201261660



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 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
BY: Christopher Deibel Division: P050 Natural Res Emp  
FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\77-Plate-LINE\_MB-impact55-A.dgn



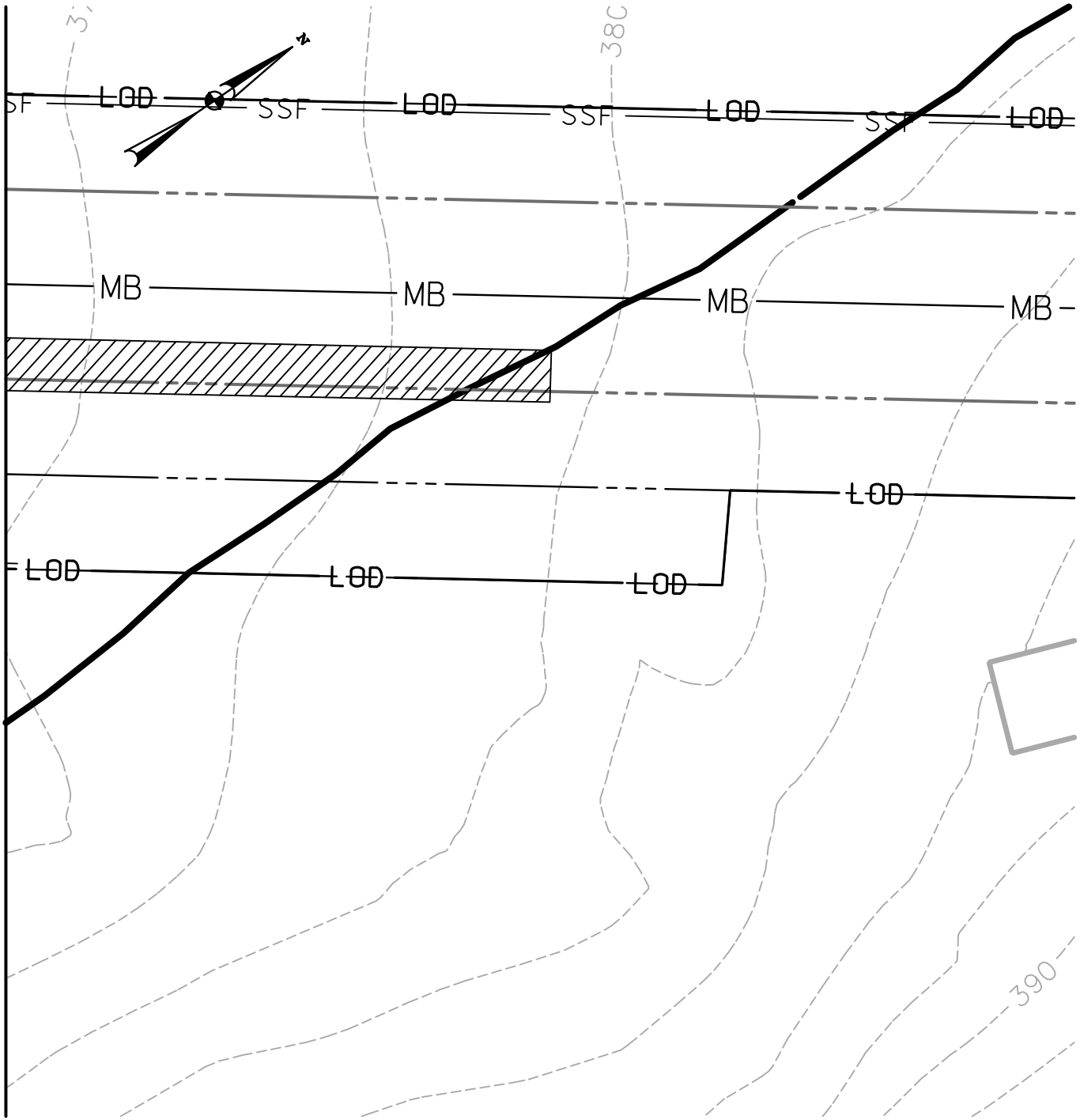
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IMPACT 55A  
LNMAS075B

MATCHLINE (SEE IMPACT 55A)



NOTE: FLOODPLAIN IMPACTS ONLY ON THIS SHEET.

12-NT-0433/201261660

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 78 OF 84



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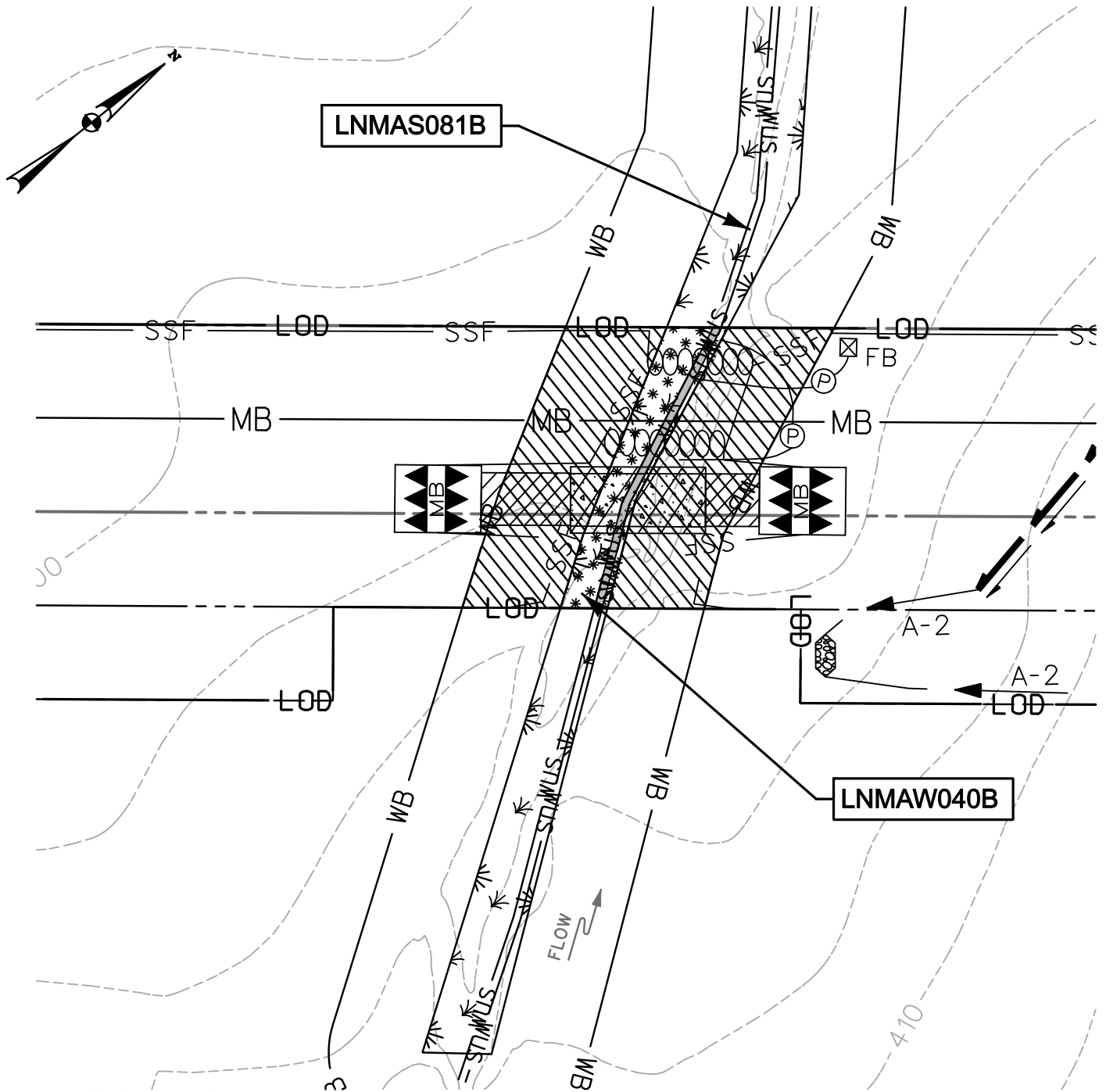
SCALE:  
 1" = 40'

DRAWN BY:  
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IMPACT 55B

PLOTTED: 11/09/12 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
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12-NT-0433/201261660


 TEMPORARY WATERS OF U.S. IMPACT  
 164 SF./ 0.004 AC./ 82 LF.


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


 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 4,060 SF./ 0.09 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 79 OF 84

PLOTTED: 09:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\79-Plate-LINE\_MB-HC\_impact56.dgn



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SCALE:  
 1" = 40'

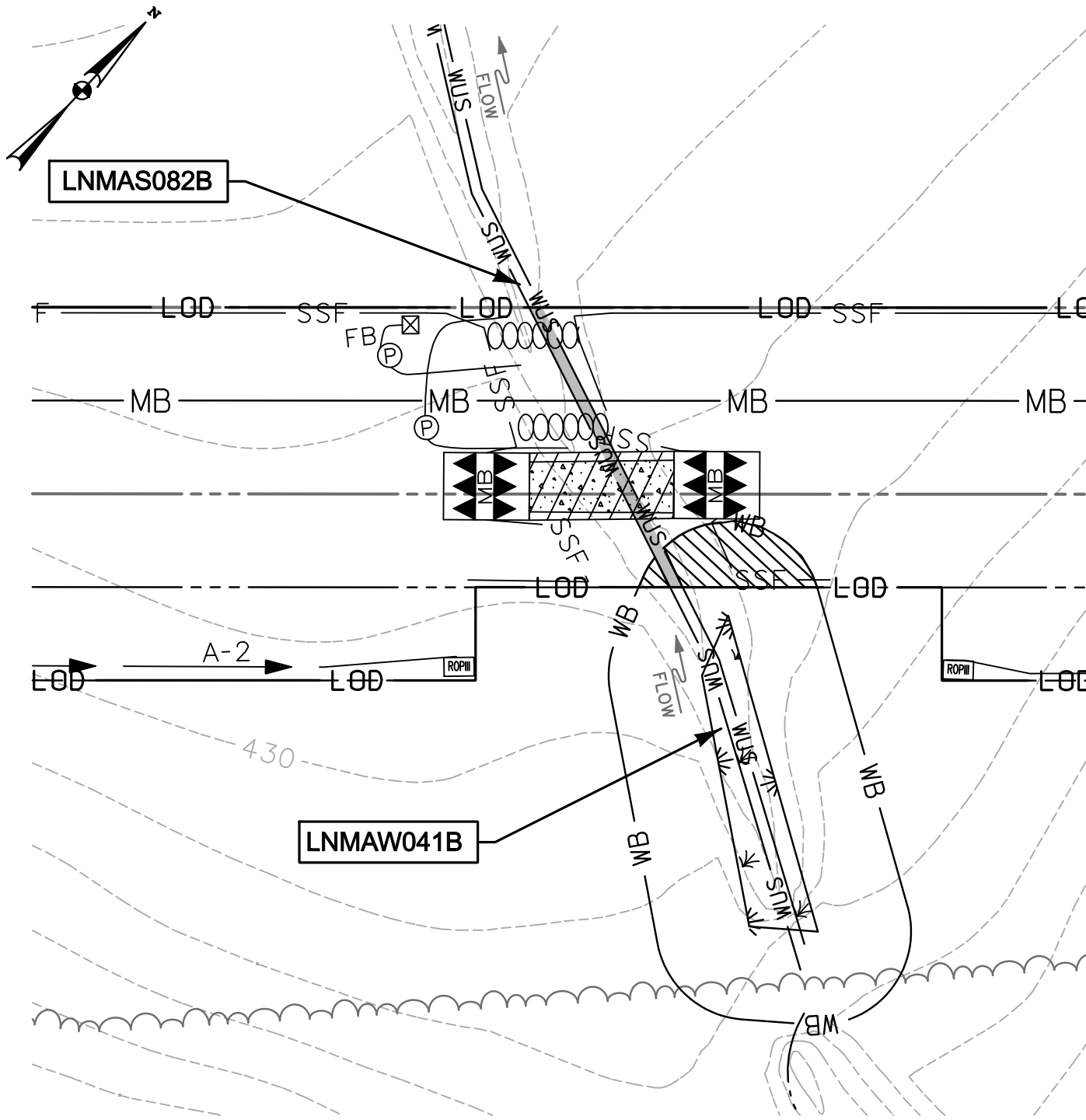
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 CSD

**LINE MB EXTENSION PROJECT**  
**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
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**IMPACT 56**


LNMAS081B; LNMAW040B





12-NT-0433/201261660

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
 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 84

PLOTTED: '09:58 AM on Tuesday, November 06, 2012"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\80-Plate-LINE\_MB-HC\_impact57.dgn

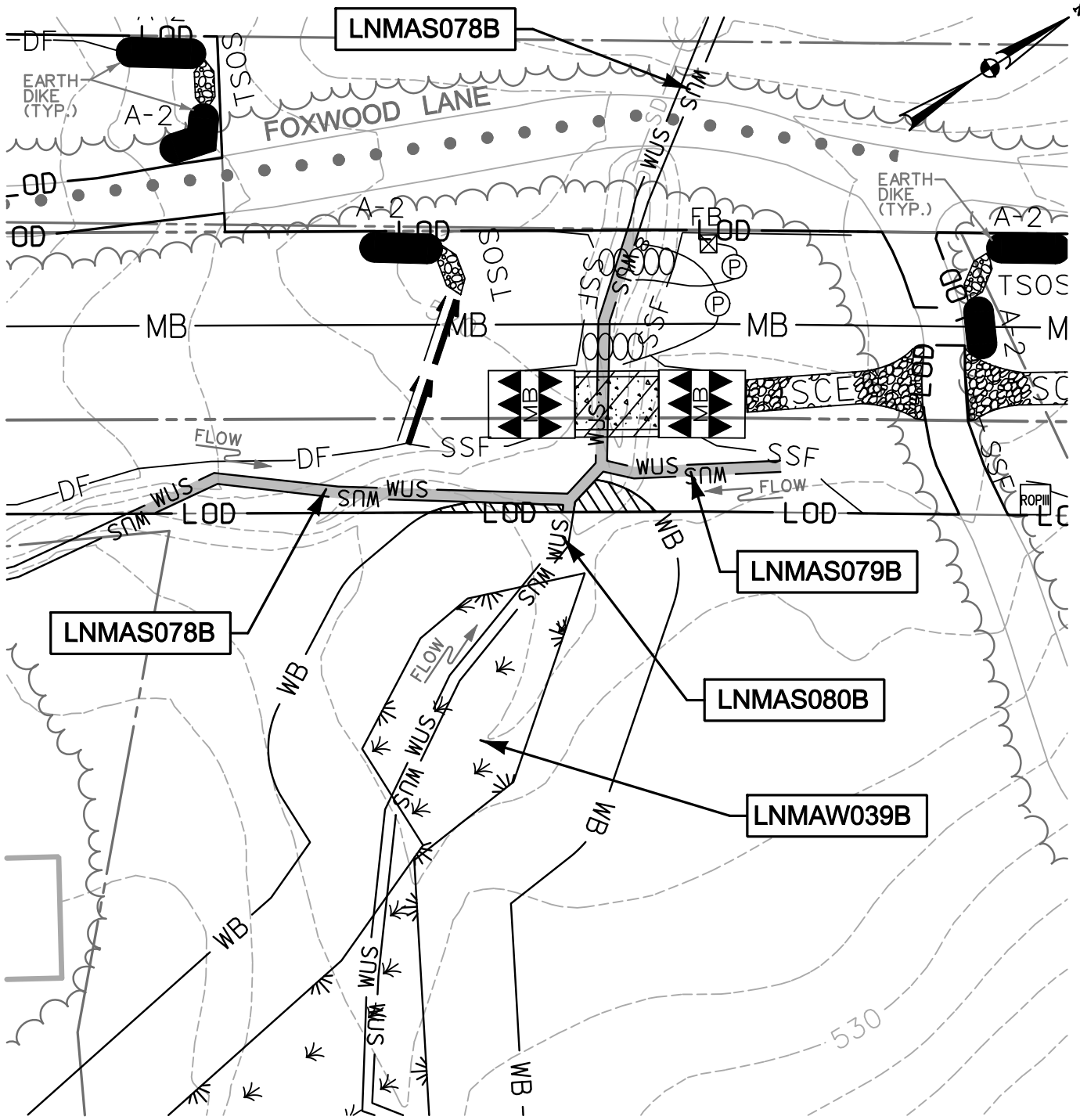


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 SCALE:  
 1" = 40'  
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**NiSOURCE / COLUMBIA GAS TRANSMISSION, LLC**  
 1700 MacCORKLE AVE, SE  
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**IMPACT 57**  
 LNMAW041B; LNMAW082B



12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
728 SF. / 0.02 AC. / 245 LF.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
196 SF. / 0.004 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 81 OF 84



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SCALE:  
1" = 40'

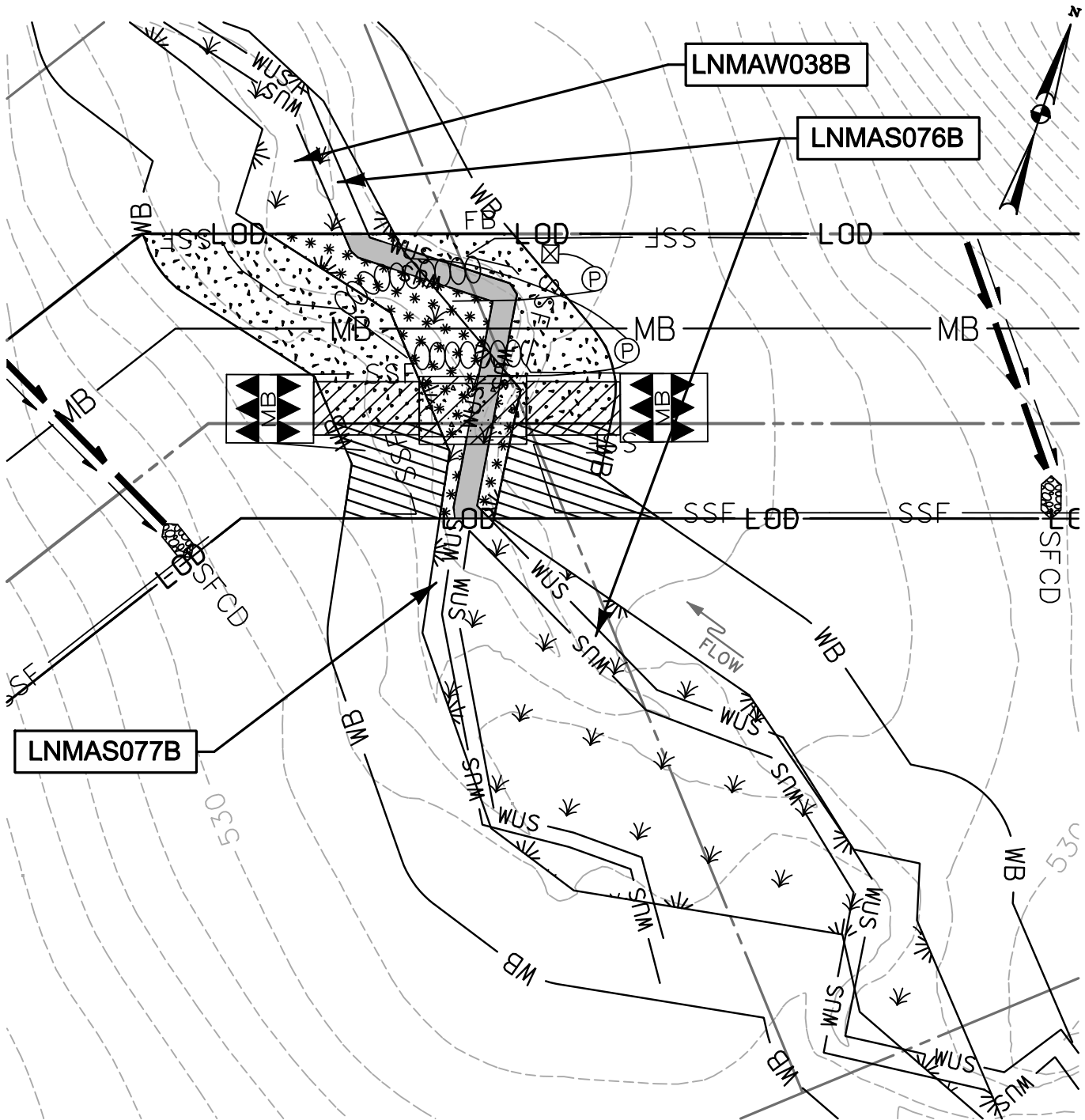
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**IMPACT 58**

LNMA078B; LNMA079B; LNMA080B; LNMAW039B

PLOTTED: 09:36 AM on Wednesday, January 30, 2013  
 BY: Christopher Deibel/Division: P050 P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\81-Plate-LINE\_MB-HC\_impact58.dgn



12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
627 SF./ 0.01 AC./ 105 LF.

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT  
3,105 SF./ 0.07 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
1,169 SF./ 0.03 AC.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
1,388 SF./ 0.03 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 82 OF 84

PLOTTED: 10:58 AM on Tuesday, November 06, 2012  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\B2-Plate-LINE\_MB-HC\_impact59.dgn



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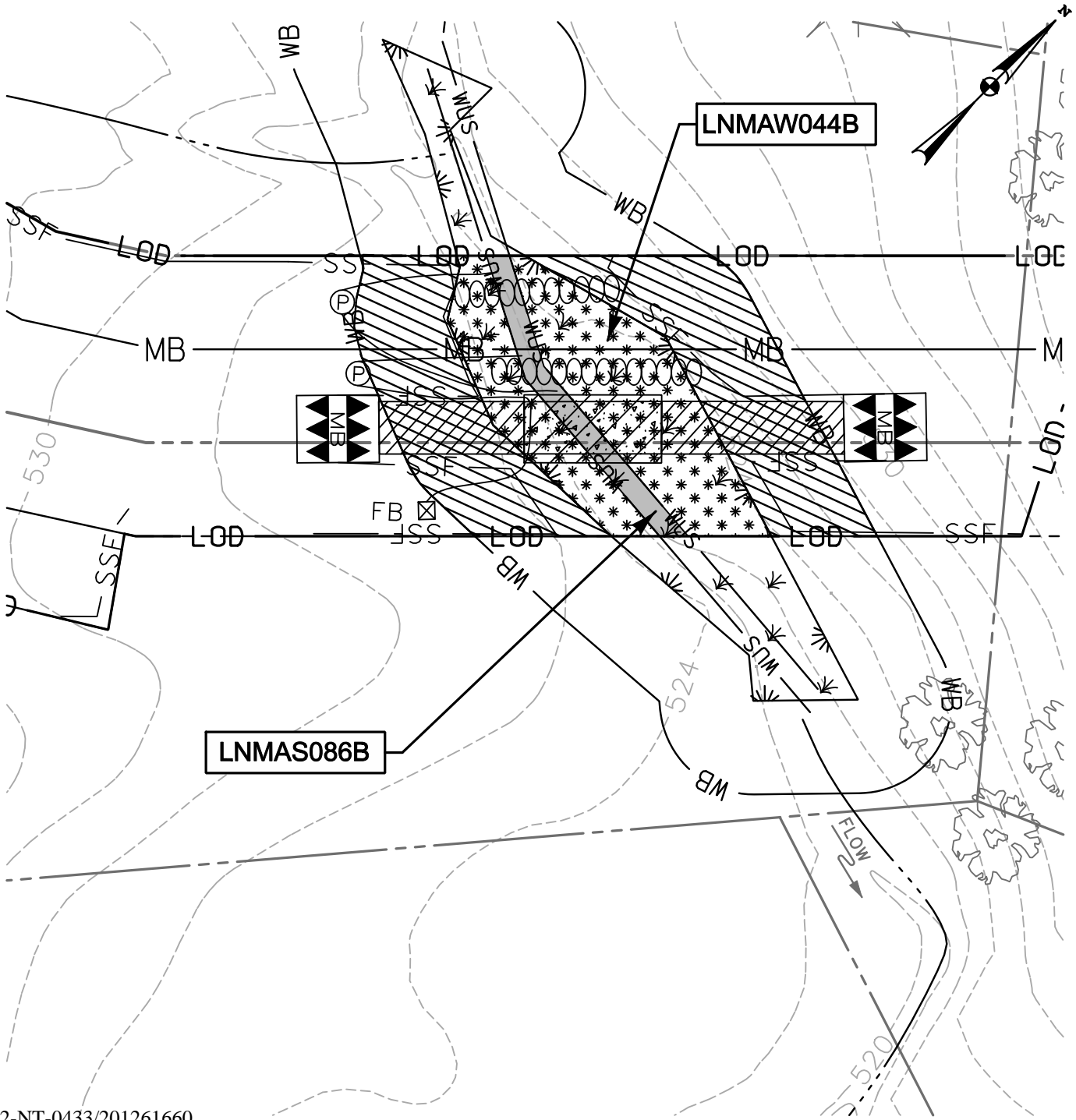
DATE:  
 NOVEMBER 2012

SCALE:  
 1" = 40'


DRAWN BY:  
 CSD

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**IMPACT 59**  
 LNMAW076B; LNMAW038B; LNMAW077B



12-NT-0433/201261660

 TEMPORARY WATERS OF U.S. IMPACT  
541 SF./ 0.01 AC./ 91 LF.

 TEMPORARY 25' NON-TIDAL WETLAND BUFFER IMPACT  
4,607 SF./ 0.11 AC.

 TEMPORARY NON-TIDAL PEM WETLAND IMPACT  
3,140 SF./ 0.07 AC.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 83 OF 84

PLOTTED: "11:10 AM on Wednesday, November 07, 2012"  
 BY: Christopher Deibel/Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\83-Plate-LINE\_MB-HC\_impact60.dgn

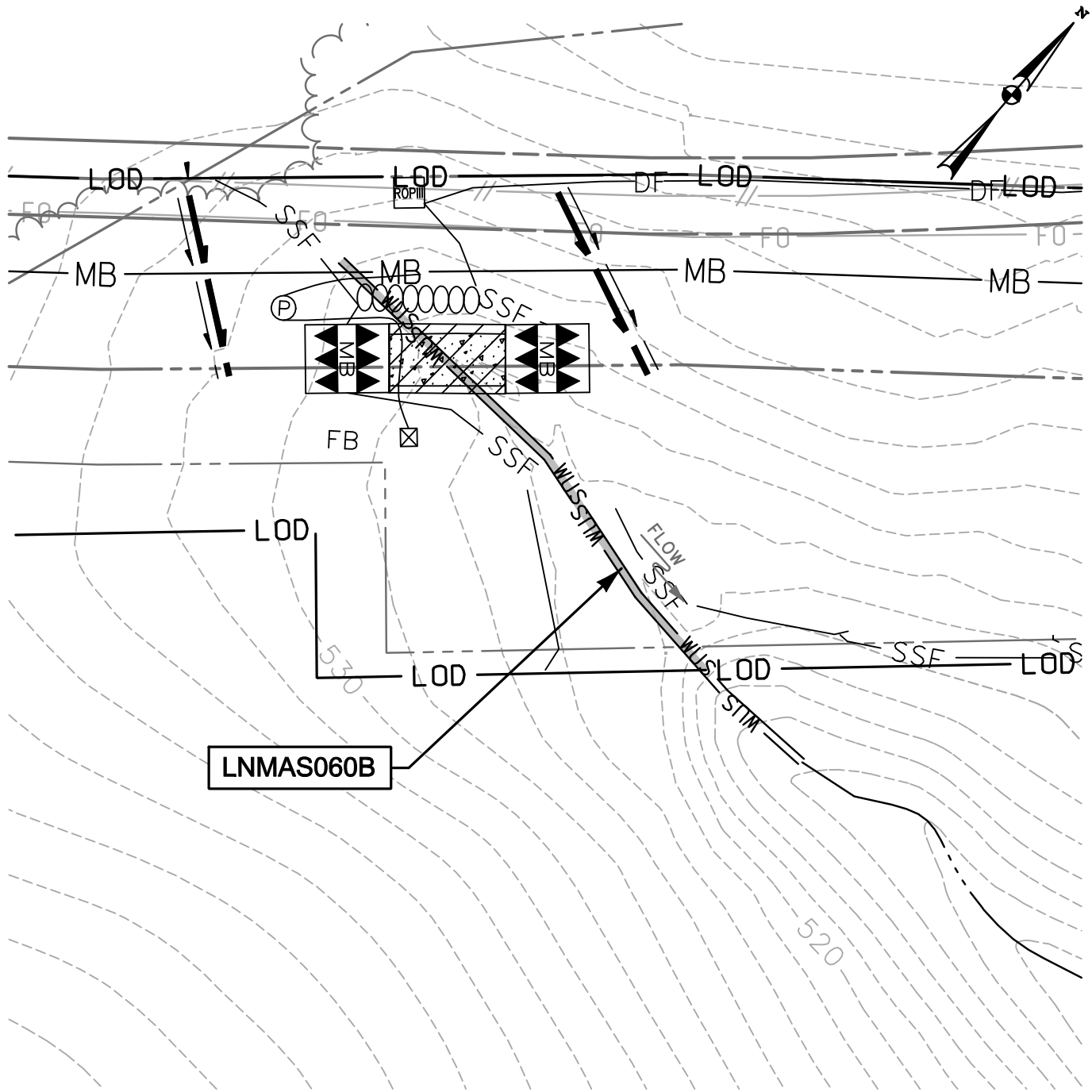


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DATE:  
 NOVEMBER 2012  
 SCALE:  
 1" = 40'  
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**IMPACT 60**  
 LNMAW086B; LNMAW044B



**LNMA060B**

12-NT-0433/201261660


 TEMPORARY WATERS  
 OF U.S. IMPACT  
 294 SF. / 0.007 AC. / 145 LF.

NOTE: REFER TO LEGEND FOR ABBREVIATION AND SYMBOL DEFINITIONS.

SHEET 84 OF 84



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SCALE:  
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**IMPACT 61**

LNMA060B

PLOTTED: 08:53 AM on Wednesday, January 23, 2013  
 BY: Christopher Deibel Division: P050 Natural Res Emp  
 FILE: M:\2012\16121849\drawings\IMPACT\_PLATES\84-Plate-LINE\_MB-HC\_impact61.dgn