

BOHLER
ENGINEERING

16701 MELFORD BLVD, SUITE 310
BOWIE, MARYLAND 20715

Phone: (301) 809-4500
Fax: (301) 809-4501

DATE

FEB 2020

PROJ. NO.

MB172043

TITLE

ENVIRONMENTAL IMPACTS

PROJECT

LOCUST HILL

Impact	LOCUST HILL PHASE I	25 FT Wetland Buffer Impact (SF)		Wetland Impact (SF)		Stream Impact (SF)		Stream Impact (LF)		RTE Buffer Impact (SF)		Floodplain Impact (SF)	
ID		TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM
1	Roadway Connection to Proposed Leeland Road						1,201.93		176.13				18,579.77
2	Stormwater Outfall												723.52
3	Roadway Connection to Proposed Leeland Road						2,240.13		249.15				12,010.68
4	Stormwater Outfall												4651.36
5	Utility Connection - Sanitary Sewer					206.06		26.07				1,539.19	
6	Stormwater Outfall												2,288.24
7	Utility Connection - Recreation Trail					167.31	169.06	27.25	24.35			298.77	150.97
8	Utility Connection - Sanitary Sewer	2,615.32		530.21		744.78		31.02				2,964.36	
TOTAL		2615.32		530.21		1118.15	3611.12	84.34	449.63			4802.32	38404.54

Impact	LOCUS HILL PHASE II	25 FT Wetland Buffer Impact (SF)		Wetland Impact (SF)		Stream Impact (SF)		Stream Impact (LF)		RTE Buffer Impact (SF)		Floodplain Impact (SF)	
ID		TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM
11	Recreation Trail						361.22		39.23				1,107.94
12	Stormwater Outfall											2810.86	
13	Utility Connection - Sanitary Sewer					577.62		32.21				5,402.60	
14	Utility Connection - Sanitary Sewer					490.06		30.71				4,064.68	
15	Stormwater Outfall & Utility Connection - Sanitary Sewer											5,289.15	1,869.73
16	Utility Connection - Sanitary Sewer					304.35		30.80				7,457.37	
17	Stormwater Outfall		1,509.99		473.69								331.20
18	Stormwater Outfall		791.68		33.60								648.56
19	Stormwater Outfall		161.98										764.03
TOTAL			2463.65		507.29	1372.03	361.22	93.72	39.23			25024.66	4721.46

Impact	LEELAND ROAD FRONTAGE	25 FT Wetland Buffer Impact (SF)		Wetland Impact (SF)		Stream Impact (SF)		Stream Impact (LF)		RTE Buffer Impact (SF)		Floodplain Impact (SF)	
ID		TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM
9	Proposed Leeland Road Improvements (Locust Hill)	2,384.84	898.20	361.53	646.71		2,048.09		418.91				
10	Proposed Leeland Road Improvements (Locust Hill)	9,544.11		23,346.20			2,265.82		905.58			56,625.30	
20	Stormwater Outfall												320.00
TOTAL		11928.95	898.20	23707.73	646.71		4313.91		1324.49			56625.30	320.00

Impact	LEELAND ROAD FRONTAGE	25 FT Wetland Buffer Impact (SF)		Wetland Impact (SF)		Stream Impact (SF)		Stream Impact (LF)		RTE Buffer Impact (SF)		Floodplain Impact (SF)	
ID		TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM
10B	Proposed Leeland Road Improvements (Willowbrook)	13,108.69	4,666.91	5,421.93	139.330							22,263.85	27,247.37
TOTAL		13108.69	4666.91	5421.93	139.33							22263.85	27247.37

Impact	TOTAL SITE IMPACTS	25 FT Wetland Buffer Impact (SF)		Wetland Impact (SF)		Stream Impact (SF)		Stream Impact (LF)		RTE Buffer Impact (SF)		Floodplain Impact (SF)	
ID		TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM	TEMP	PERM
GRAND TOTAL		27652.96	8028.76	29659.87	1293.33	3258.94	8286.25	215.26	1813.35			108716.13	70693.37

JULY 2020 REVISION: REVISED GRADING TO LIMIT DISTURBANCE FOR IMPACT #10; SHEET 12 THRU 16.



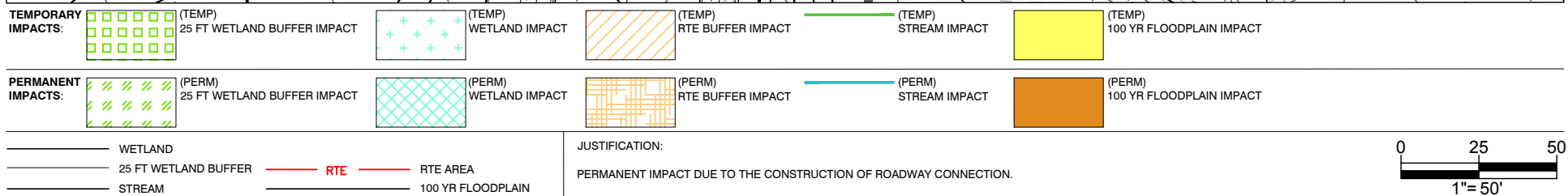
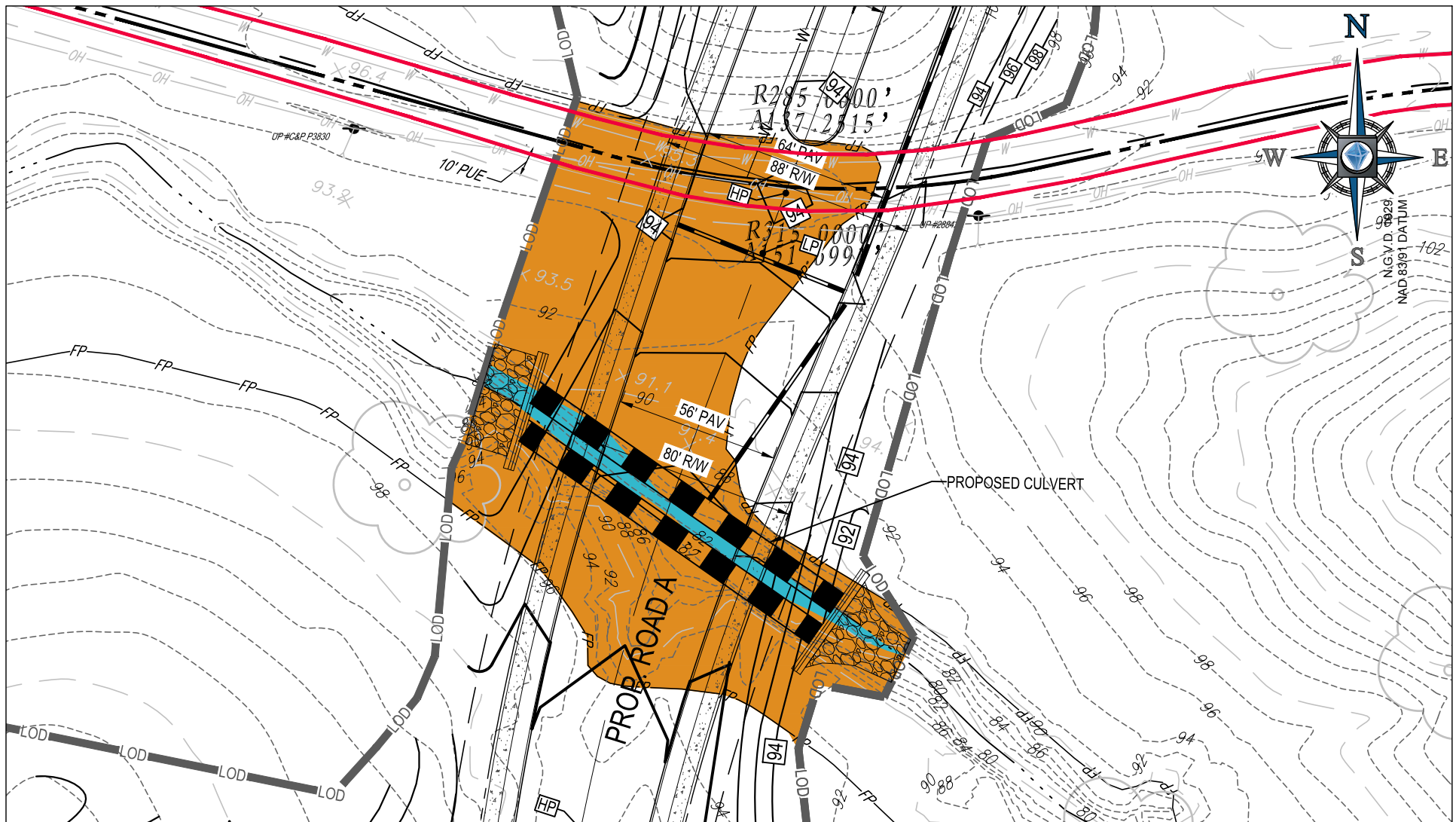
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PROJECT NO.
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EXHIBIT
ENVIRONMENTAL IMPACTS
PROJECT NAME
LOCUST HILL

IMPACT #:
IMPACT CHART
SCALE:
N/A



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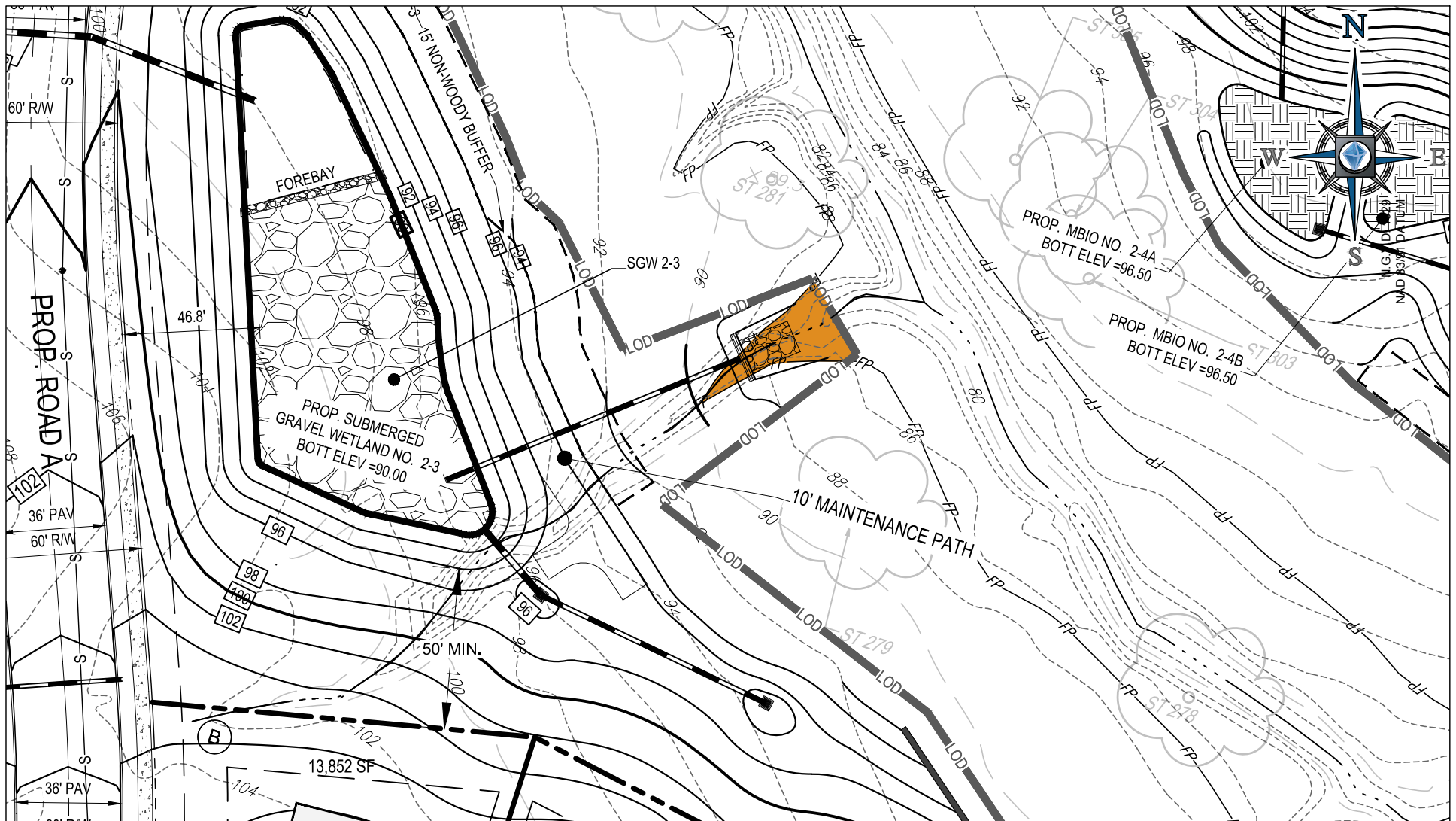
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EXHIBIT
ENVIRONMENTAL IMPACTS
PROJECT NAME
LOCUST HILL

IMPACT #:
IMPACT #1
SCALE:
1"= 50'



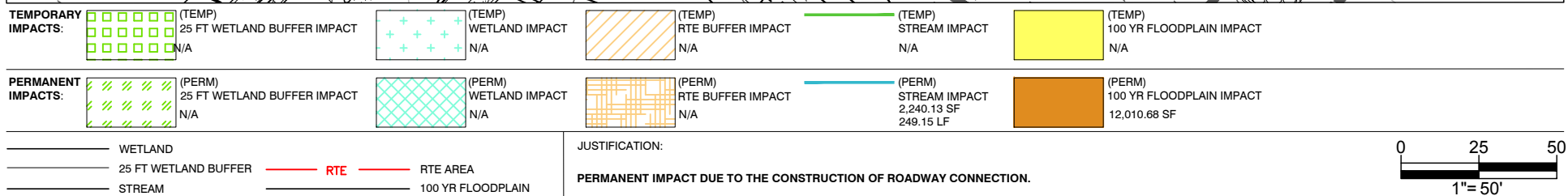
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PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) WETLAND IMPACT N/A	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT N/A	(PERM) 100 YR FLOODPLAIN IMPACT 723.52 SF

WETLAND
 25 FT WETLAND BUFFER
 RTE
 RTE AREA
 100 YR FLOODPLAIN

JUSTIFICATION:
PERMANENT IMPACT DUE TO THE CONSTRUCTION AND PERMANENT INSTALLATION OF A STORMWATER OUTFALL.

0 25 50
 1" = 50'

	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020	EXHIBIT ENVIRONMENTAL IMPACTS	IMPACT #: IMPACT #2
		PROJECT NO. MB172043	PROJECT NAME LOCUST HILL	SCALE: 1" = 50'



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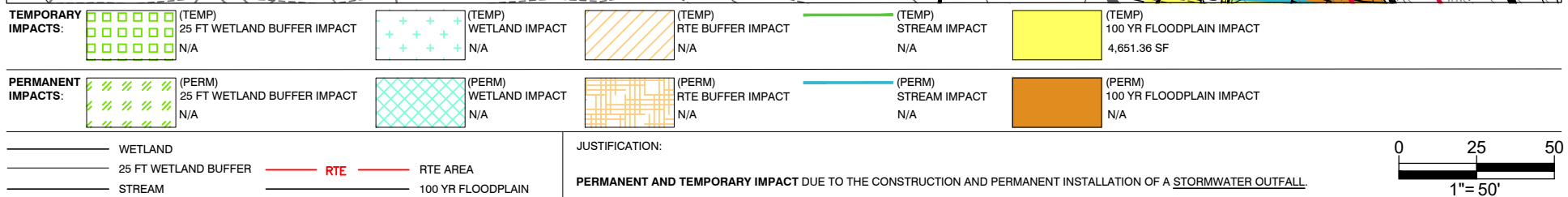
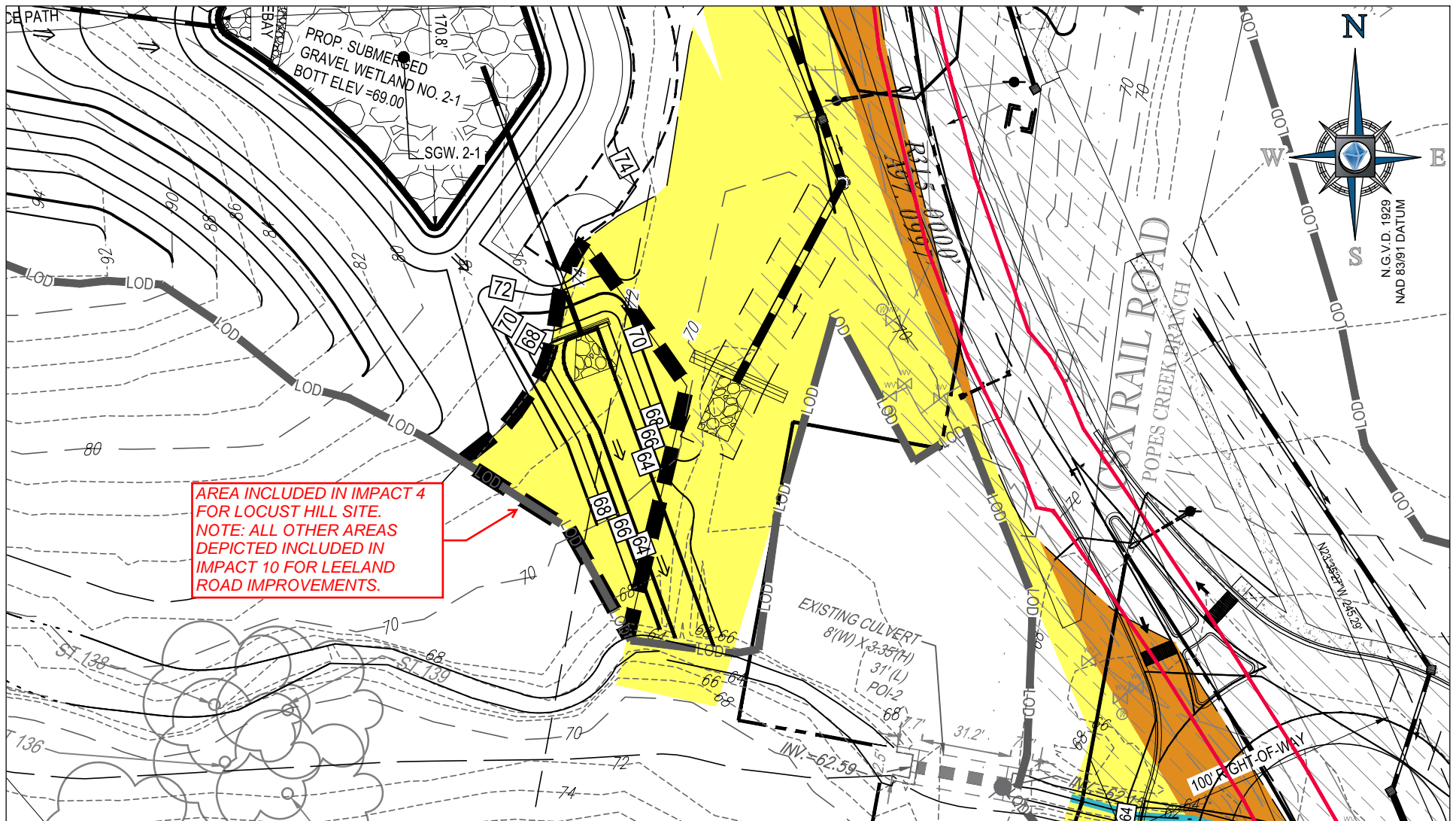
16701 MELFORD BLVD, SUITE 310
BOWIE, MARYLAND 20715

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DATE
FEB 2020
PROJECT NO.
MB172043

EXHIBIT
ENVIRONMENTAL IMPACTS
PROJECT NAME
LOCUST HILL


IMPACT #:
IMPACT #3
SCALE:
1"= 50'

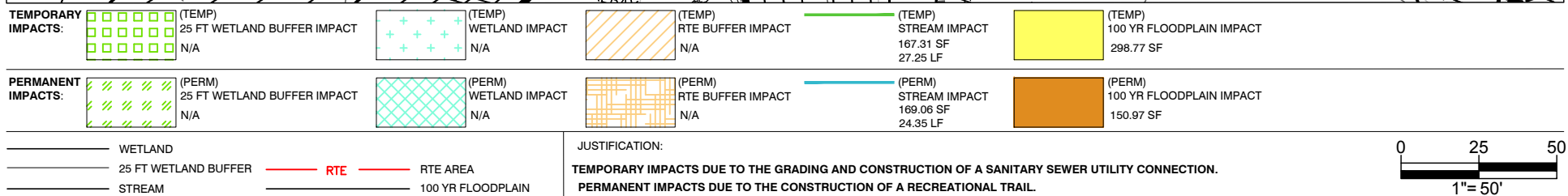




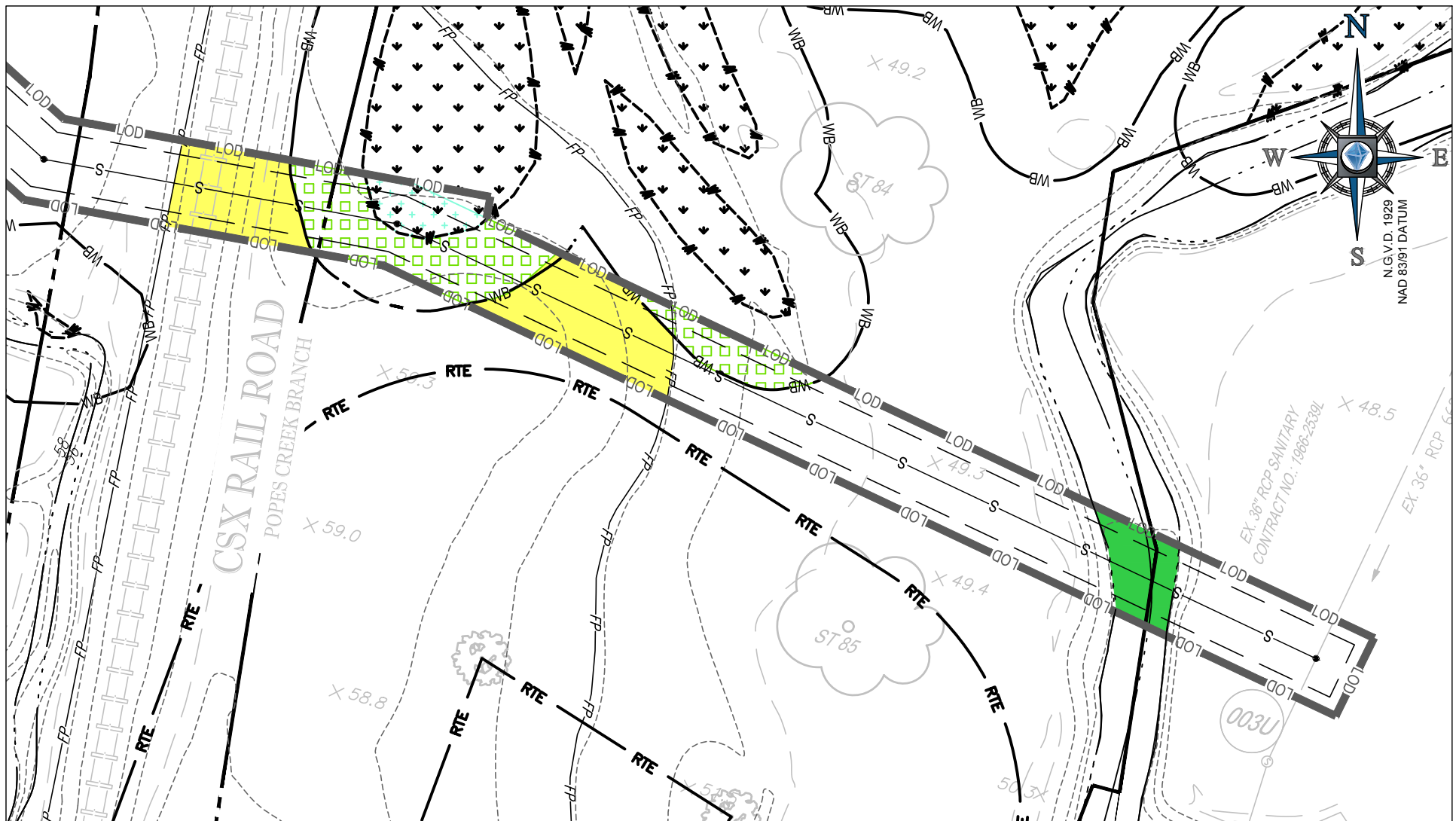
TEMPORARY IMPACTS:  (TEMP) 25 FT WETLAND BUFFER IMPACT N/A	 (TEMP) WETLAND IMPACT N/A	 (TEMP) RTE BUFFER IMPACT N/A	 (TEMP) STREAM IMPACT 206.06 SF 26.07 LF	 (TEMP) 100 YR FLOODPLAIN IMPACT 1,539.19 SF
PERMANENT IMPACTS:  (PERM) 25 FT WETLAND BUFFER IMPACT N/A	 (PERM) WETLAND IMPACT N/A	 (PERM) RTE BUFFER IMPACT N/A	 (PERM) STREAM IMPACT N/A	 (PERM) 100 YR FLOODPLAIN IMPACT N/A

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: TEMPORARY IMPACTS DUE TO THE GRADING AND CONSTRUCTION OF A SANITARY SEWER UTILITY CONNECTION.	0 25 50 1"= 50'
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 BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB172043	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME LOCUST HILL	IMPACT #: IMPACT #5 SCALE: 1"= 50'
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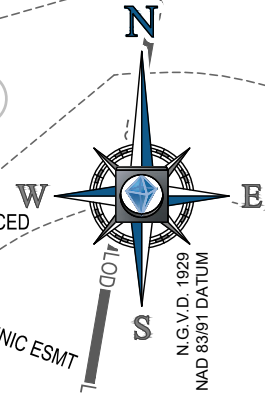
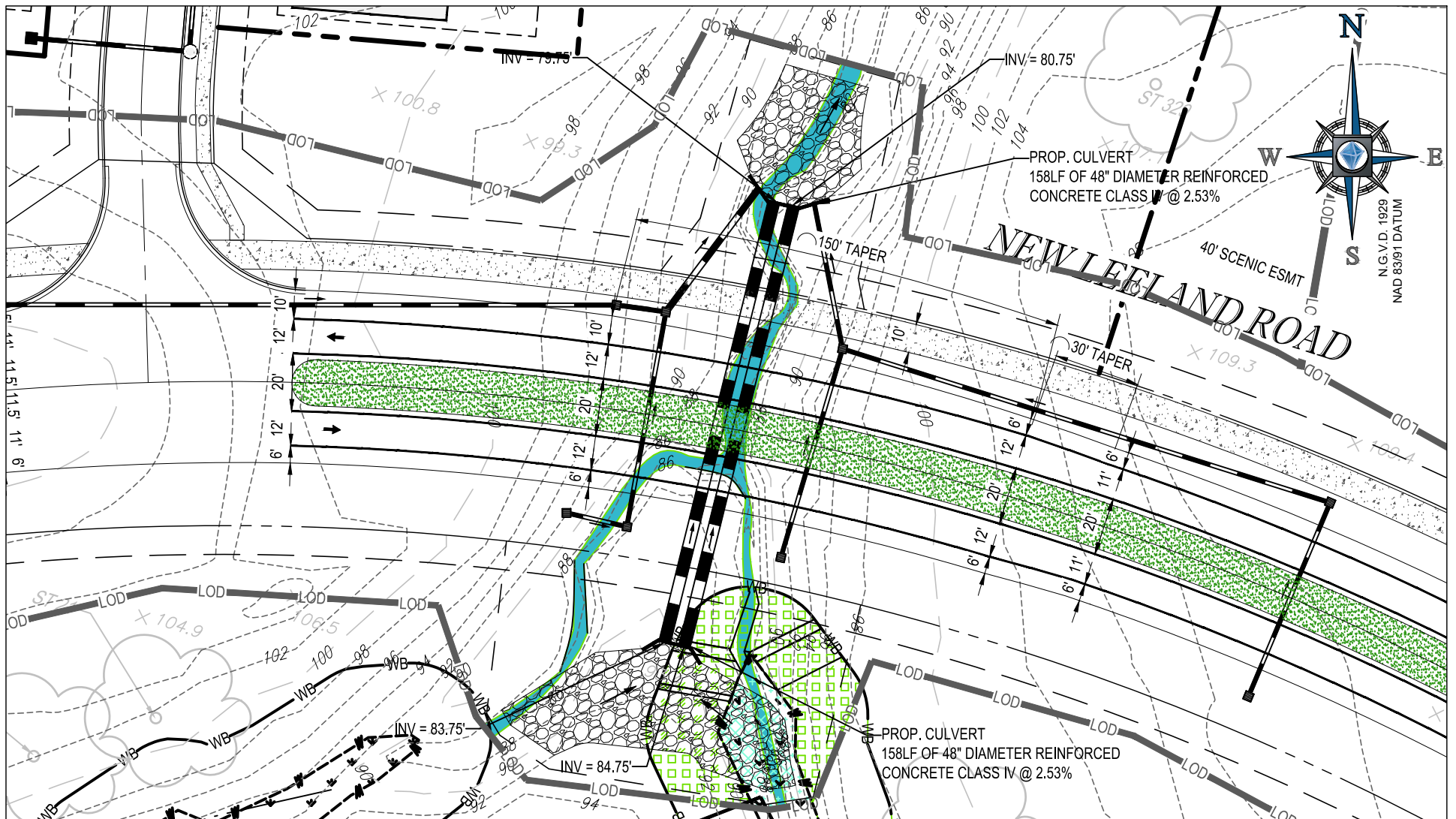
BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020	EXHIBIT ENVIRONMENTAL IMPACTS	IMPACT #: IMPACT #7
		PROJECT NO. MB172043	PROJECT NAME LOCUST HILL	SCALE: 1"=50'



TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 2,615.32 SF	(TEMP) WETLAND IMPACT 530.21 SF	(TEMP) RTE BUFFER IMPACT N/A	(TEMP) STREAM IMPACT 744.78 SF 31.02 LF	(TEMP) 100 YR FLOODPLAIN IMPACT 2,964.36 SF
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) WETLAND IMPACT N/A	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT N/A	(PERM) 100 YR FLOODPLAIN IMPACT N/A

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: TEMPORARY IMPACTS DUE TO THE GRADING AND CONSTRUCTION OF A SANITARY SEWER UTILITY CONNECTION.	0 25 50 1"= 50'
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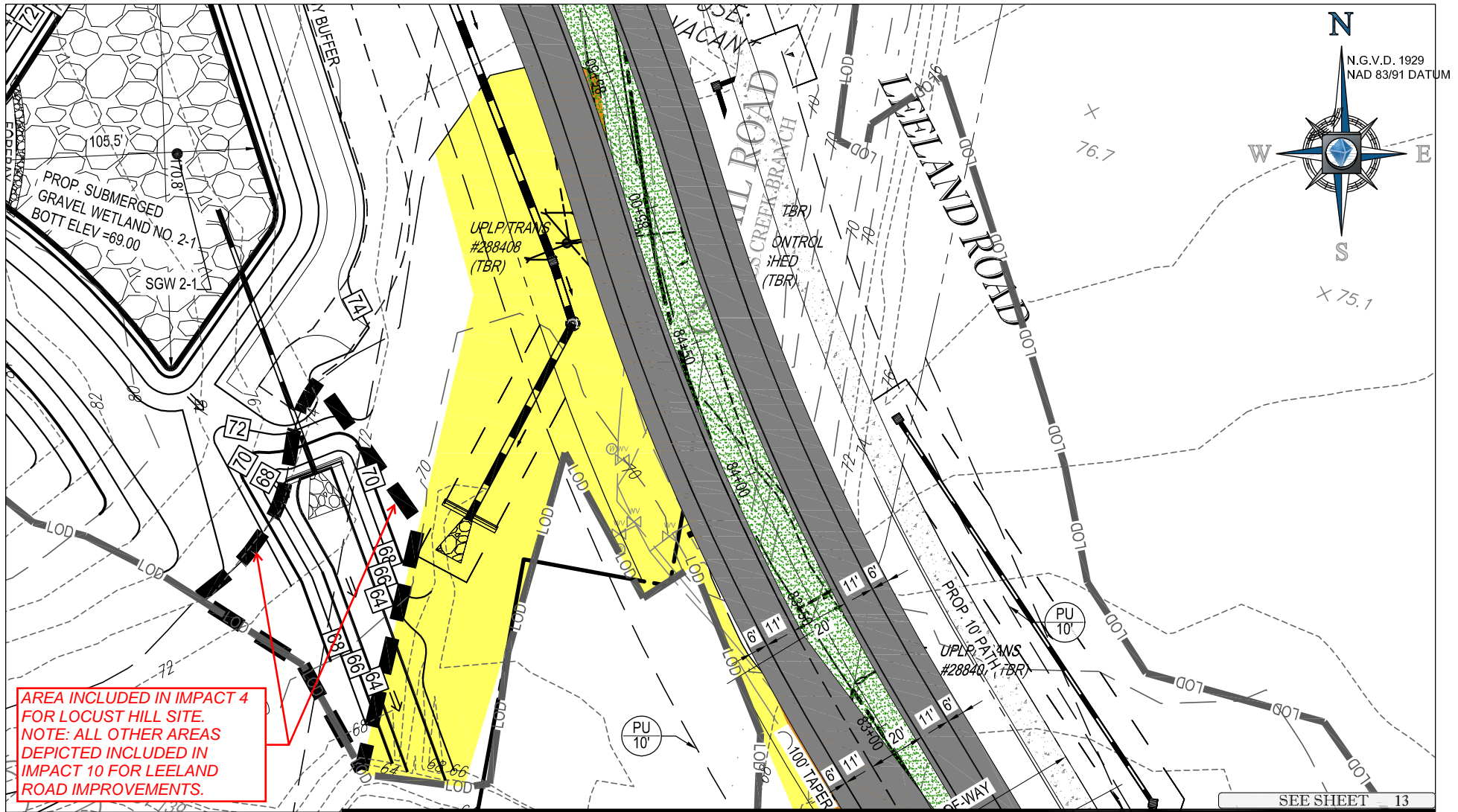
TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 2,384.84 SF (TEMP) WETLAND IMPACT 361.53 SF (TEMP) RTE BUFFER IMPACT N/A (TEMP) STREAM IMPACT N/A (TEMP) 100 YR FLOODPLAIN IMPACT N/A							
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT 898.20 SF (PERM) WETLAND IMPACT 646.71 SF (PERM) RTE BUFFER IMPACT N/A (PERM) STREAM IMPACT 2,048.09 SF 418.91 LF (PERM) 100 YR FLOODPLAIN IMPACT N/A							

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN
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JUSTIFICATION:
PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.



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TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 9,544.11 SF	(TEMP) WETLAND IMPACT 23,346.20 SF	(TEMP) RTE BUFFER IMPACT N/A	(TEMP) STREAM IMPACT N/A	(TEMP) 100 YR FLOODPLAIN IMPACT 56,625.30 SF	(TEMP) VEGETATED UPLAND FOREST
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) WETLAND IMPACT N/A	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT 2,265.82 SF 905.58 LF	(PERM) 100 YR FLOODPLAIN IMPACT 27,519.10 SF	(PERM) VEGETATED UPLAND FOREST

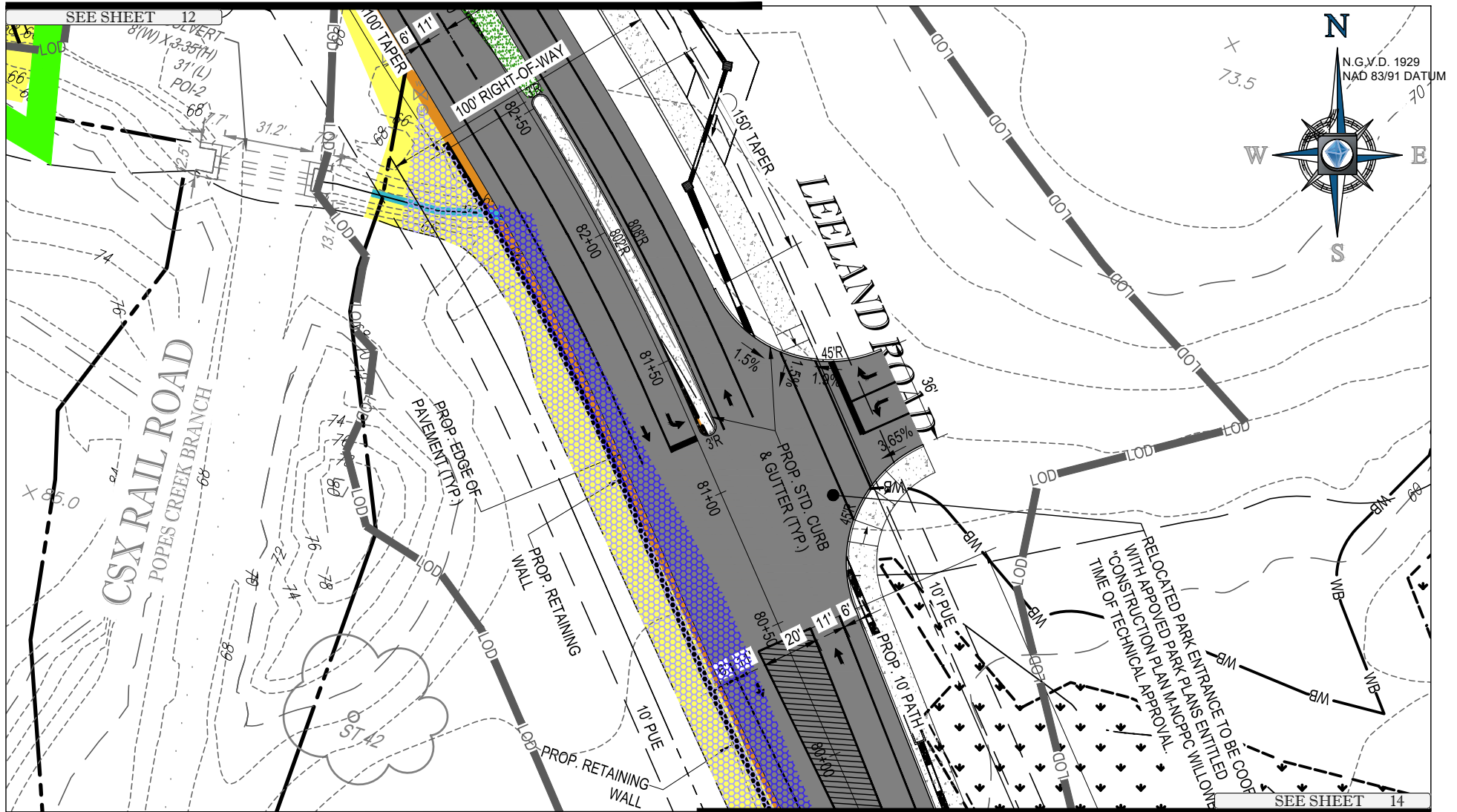
WETLAND
 25 FT WETLAND BUFFER
 RTE
 RTE AREA
 STREAM
 100 YR FLOODPLAIN

JUSTIFICATION:

PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.
JULY 2020 REVISION: REVISED GRADING TO LIMIT DISTURBANCE
NOTE: ALL STREAM IMPACT IS TO BE OFFSET WITH COMPENSATORY MITIGATION BY STREAM REALIGNMENT AND IMPROVEMENT.

0 25 50
1"=50'

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TEMPORARY IMPACTS:	(TEMP) 25 FT WETLAND BUFFER IMPACT 9,544.11 SF	(TEMP) WETLAND IMPACT 23,346.20 SF	(TEMP) RTE BUFFER IMPACT N/A	(TEMP) STREAM IMPACT N/A	(TEMP) 100 YR FLOODPLAIN IMPACT 56,625.30 SF	(TEMP) VEGETATED UPLAND FOREST 3,722.70 SF
PERMANENT IMPACTS:	(PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) WETLAND IMPACT N/A	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT 2,265.82 SF 905.58 LF	(PERM) 100 YR FLOODPLAIN IMPACT 27,519.10 SF	(PERM) VEGETATED UPLAND FOREST 3,081.20 SF

WETLAND
25 FT WETLAND BUFFER
STREAM

RTE
RTE AREA
100 YR FLOODPLAIN

JUSTIFICATION:

PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.
JULY 2020 REVISION: REVISED GRADING TO LIMIT DISTURBANCE
NOTE: ALL STREAM IMPACT IS TO BE OFFSET WITH COMPENSATORY MITIGATION BY STREAM REALIGNMENT AND IMPROVEMENT.

0 25 50
1" = 50'



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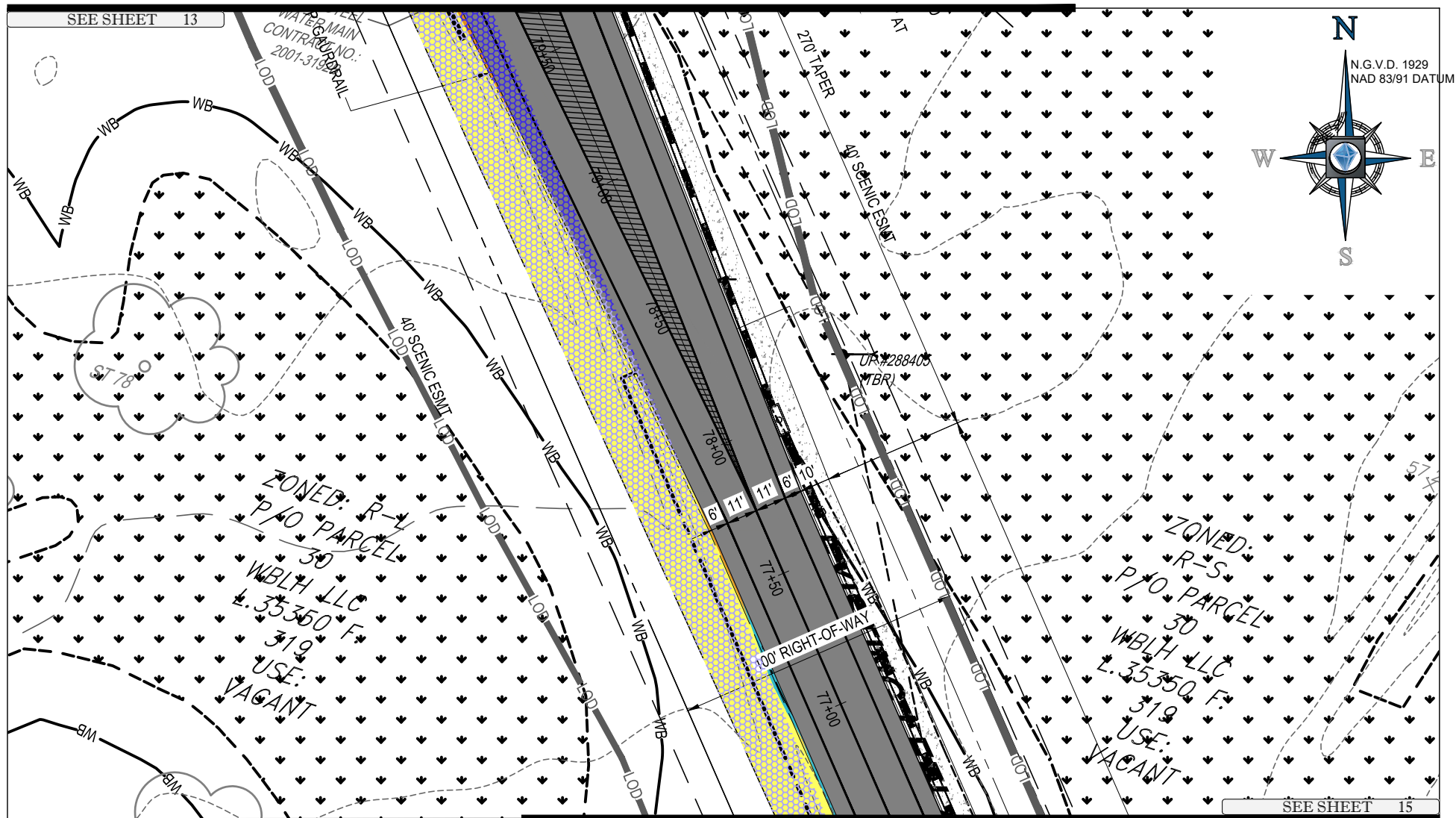
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EXHIBIT
ENVIRONMENTAL IMPACTS
PROJECT NAME
LOCUST HILL

IMPACT #:
IMPACT #10
SCALE:
1" = 50'



TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 9,544.11 SF	(TEMP) WETLAND IMPACT 23,346.20 SF	(TEMP) RTE BUFFER IMPACT N/A	(TEMP) STREAM IMPACT N/A	(TEMP) 100 YR FLOODPLAIN IMPACT 56,625.30 SF	(TEMP) VEGETATED UPLAND FOREST 6,072.30 SF
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) WETLAND IMPACT N/A	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT 2,265.82 SF 905.58 LF	(PERM) 100 YR FLOODPLAIN IMPACT 27,519.10 SF	(PERM) VEGETATED UPLAND FOREST 903.60 SF

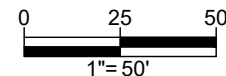
WETLAND
 25 FT WETLAND BUFFER
 RTE
 RTE AREA
 STREAM
 100 YR FLOODPLAIN

JUSTIFICATION:

PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.

JULY 2020 REVISION: REVISED GRADING TO LIMIT DISTURBANCE

NOTE: ALL STREAM IMPACT IS TO BE OFFSET WITH COMPENSATORY MITIGATION BY STREAM REALIGNMENT AND IMPROVEMENT.



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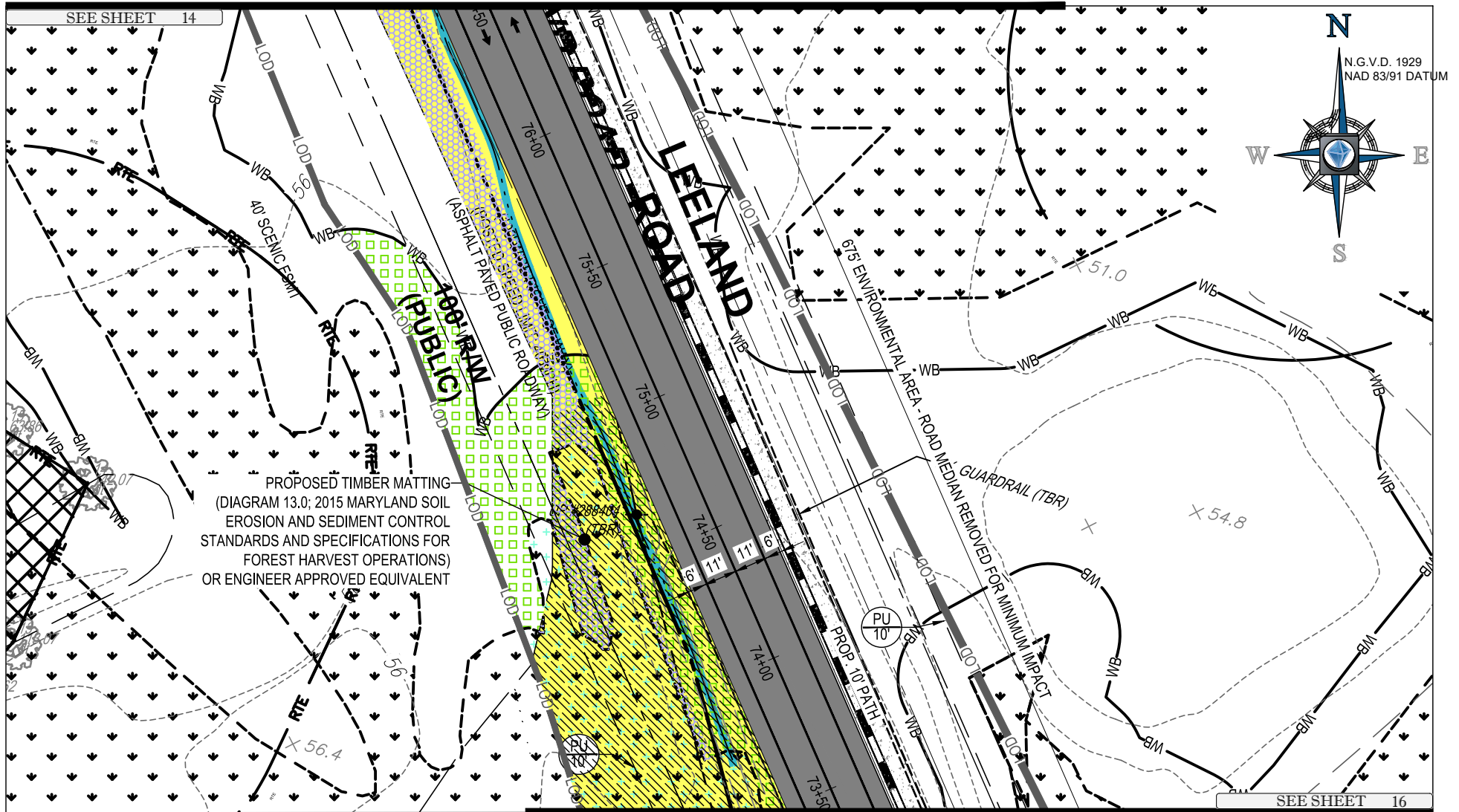
PROJECT NO.
MB172043

EXHIBIT
ENVIRONMENTAL IMPACTS

PROJECT NAME
LOCUST HILL

IMPACT #:
IMPACT #10

SCALE:
1" = 50'



TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 9,544.11 SF	(TEMP) WETLAND IMPACT 23,346.20 SF	(TEMP) RTE BUFFER IMPACT N/A	(TEMP) STREAM IMPACT N/A	(TEMP) 100 YR FLOODPLAIN IMPACT 56,625.30 SF	(TEMP) VEGETATED UPLAND FOREST 2,867.50 SF
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT N/A	(PERM) WETLAND IMPACT N/A	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT 2,265.82 SF 905.58 LF	(PERM) 100 YR FLOODPLAIN IMPACT 27,519.10 SF	(PERM) VEGETATED UPLAND FOREST 0.00 SF

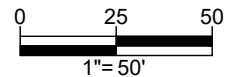
WETLAND
 25 FT WETLAND BUFFER
 STREAM
 RTE
 RTE AREA
 100 YR FLOODPLAIN

JUSTIFICATION:

PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.

JULY 2020 REVISION: REVISED GRADING TO LIMIT DISTURBANCE

NOTE: ALL STREAM IMPACT IS TO BE OFFSET WITH COMPENSATORY MITIGATION BY STREAM REALIGNMENT AND IMPROVEMENT.



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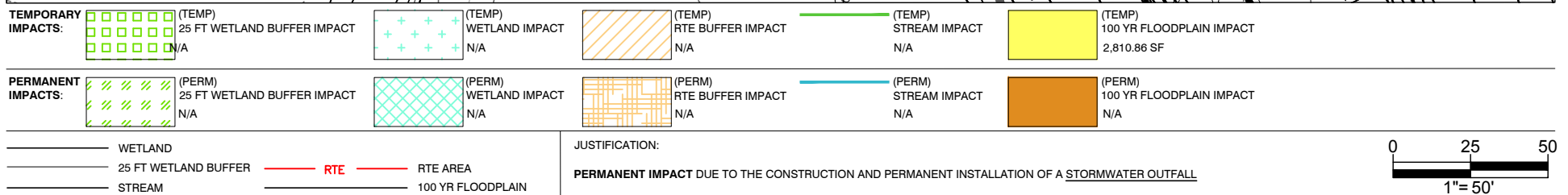
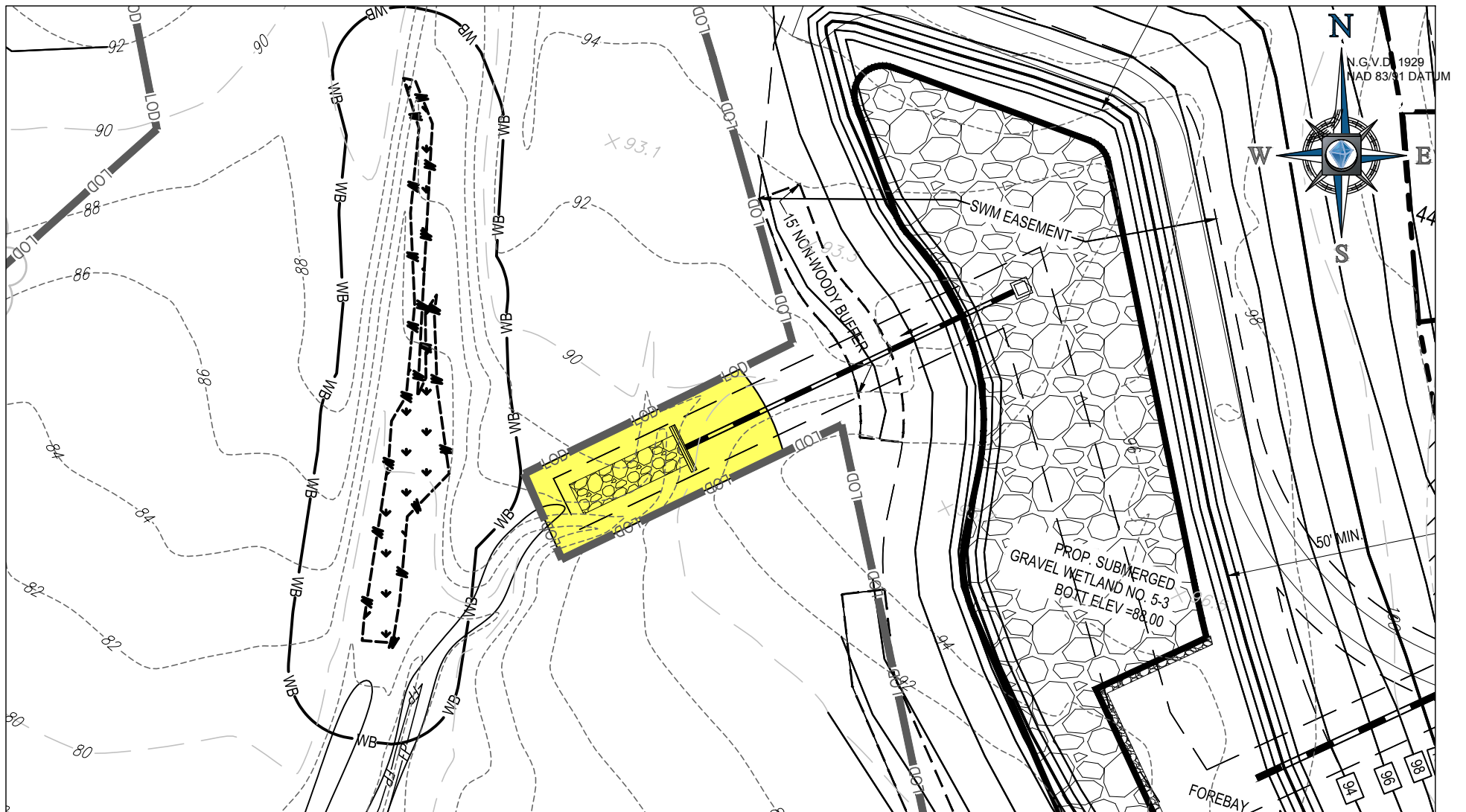
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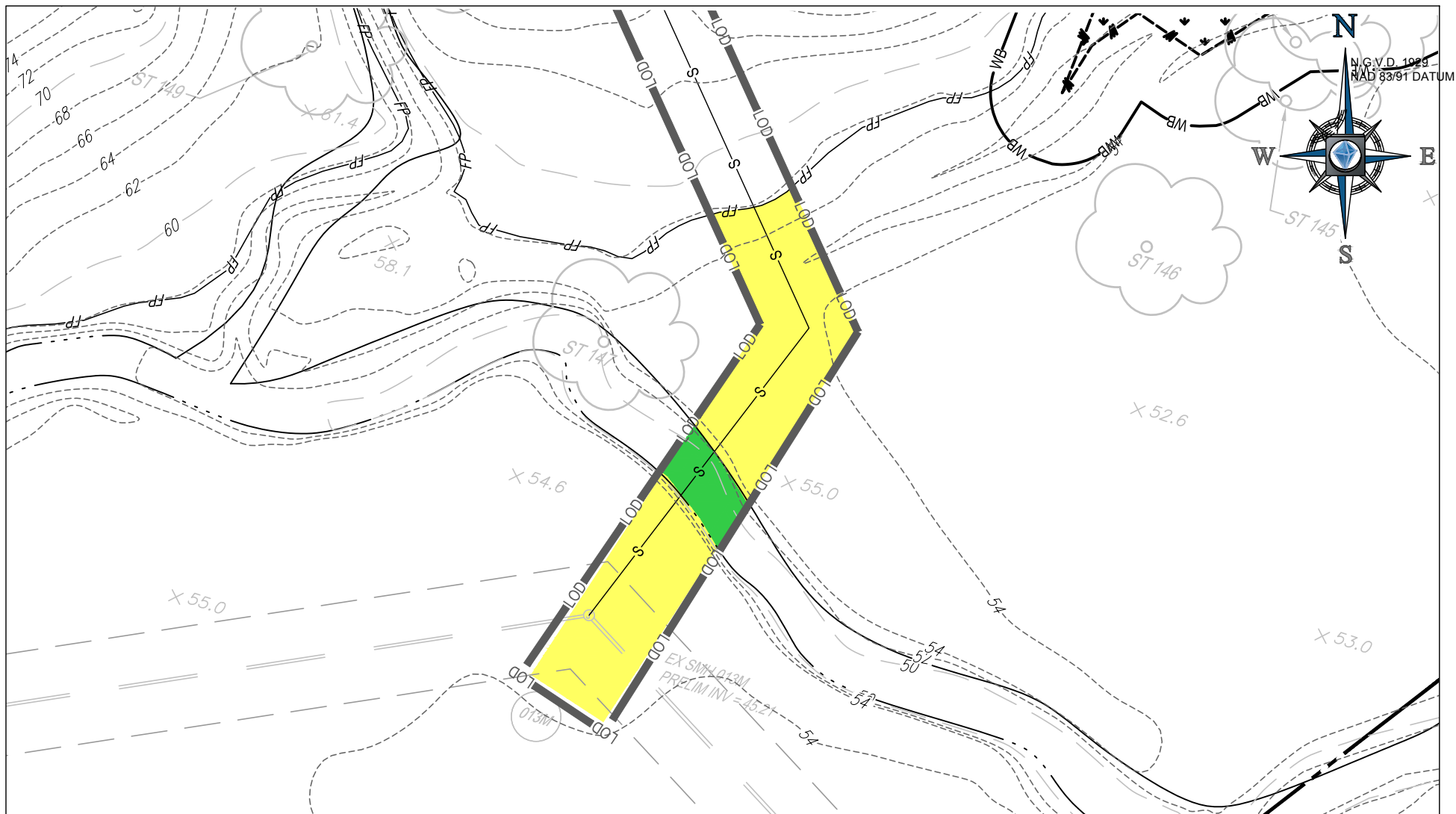
EXHIBIT
ENVIRONMENTAL IMPACTS
PROJECT NAME
LOCUST HILL











IMPACT #:
IMPACT #10
SCALE:
1"=50'





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			PROJECT NO. MB172043	PROJECT NAME LOCUST HILL	SCALE: 1" = 50'



TEMPORARY IMPACTS:  (TEMP) 25 FT WETLAND BUFFER IMPACT N/A	 (TEMP) WETLAND IMPACT N/A	 (TEMP) RTE BUFFER IMPACT N/A	 (TEMP) STREAM IMPACT 577.62 SF 32.26 LF	 (TEMP) 100 YR FLOODPLAIN IMPACT 5,402.60 SF
PERMANENT IMPACTS:  (PERM) 25 FT WETLAND BUFFER IMPACT N/A	 (PERM) WETLAND IMPACT N/A	 (PERM) RTE BUFFER IMPACT N/A	 (PERM) STREAM IMPACT N/A	 (PERM) 100 YR FLOODPLAIN IMPACT N/A

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: TEMPORARY IMPACTS DUE TO THE GRADING AND CONSTRUCTION OF A SANITARY SEWER UTILITY CONNECTION.	0 25 50 1"= 50' IMPACT #: IMPACT #13 SCALE: 1"= 50'
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ENVIRONMENTAL IMPACTS
PROJECT NAME
LOCUST HILL

IMPACT #:
IMPACT #13
SCALE:
1"= 50'



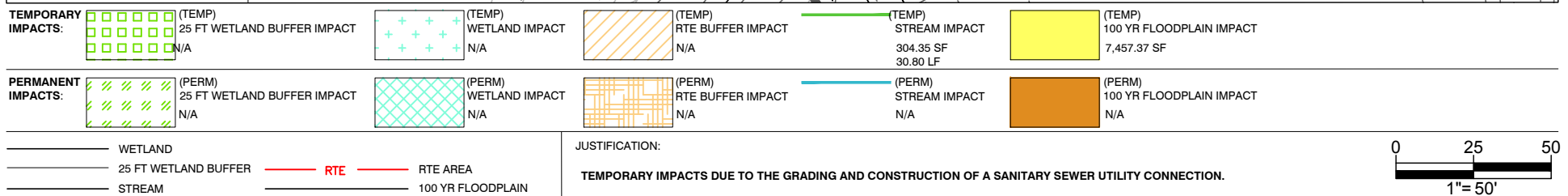
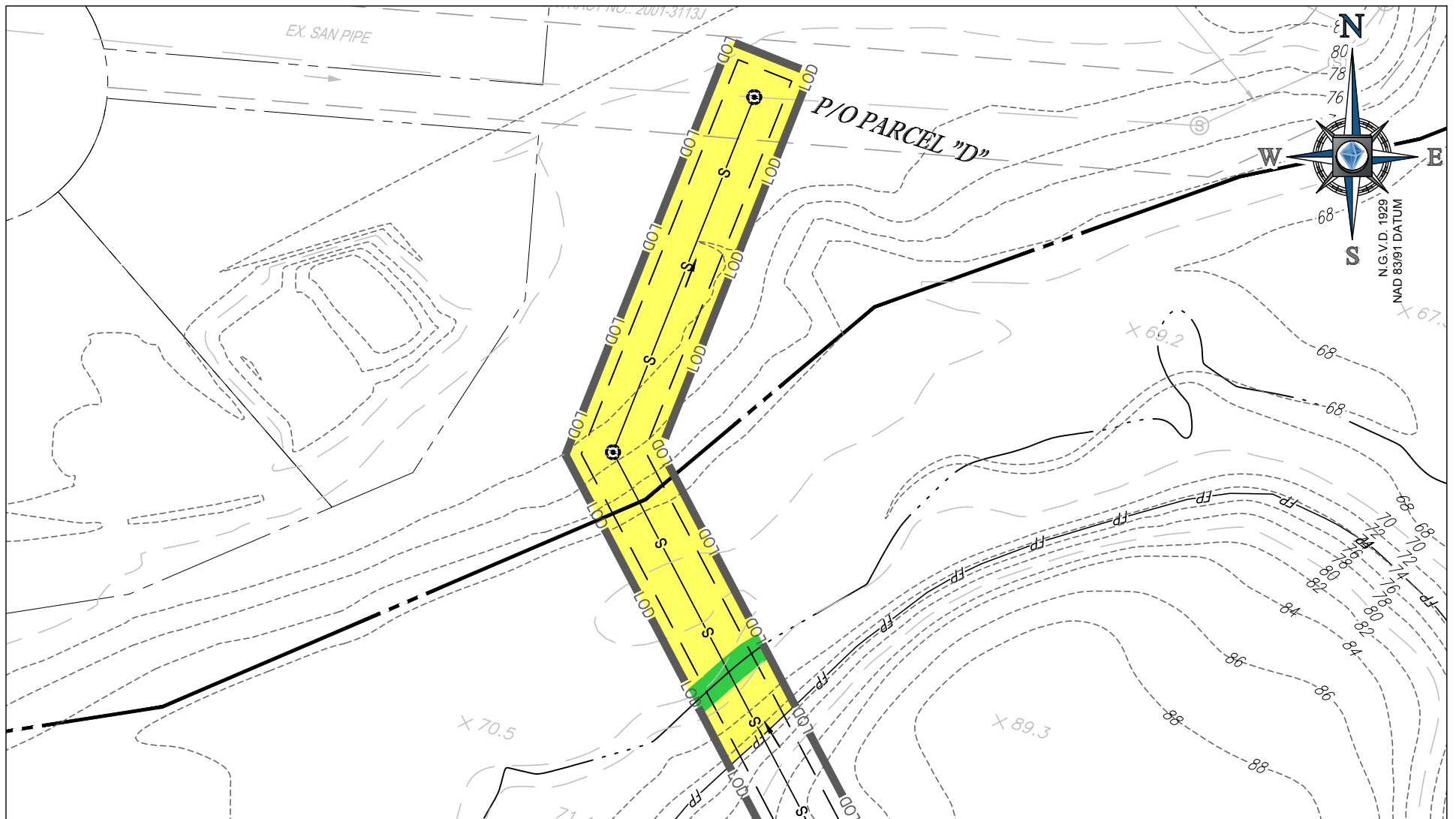
TEMPORARY IMPACTS:  (TEMP) 25 FT WETLAND BUFFER IMPACT  N/A	 (TEMP) 25 FT WETLAND BUFFER IMPACT  N/A	 (TEMP) WETLAND IMPACT  N/A	 (TEMP) RTE BUFFER IMPACT  N/A	 (TEMP) STREAM IMPACT 490.06 SF 30.71 LF	 (TEMP) 100 YR FLOODPLAIN IMPACT 4,064.68 SF
PERMANENT IMPACTS:  (PERM) 25 FT WETLAND BUFFER IMPACT  N/A	 (PERM) 25 FT WETLAND BUFFER IMPACT  N/A	 (PERM) WETLAND IMPACT  N/A	 (PERM) RTE BUFFER IMPACT  N/A	 (PERM) STREAM IMPACT N/A	 (PERM) 100 YR FLOODPLAIN IMPACT N/A

WETLAND
 25 FT WETLAND BUFFER
 STREAM
 RTE
 RTE AREA
 100 YR FLOODPLAIN

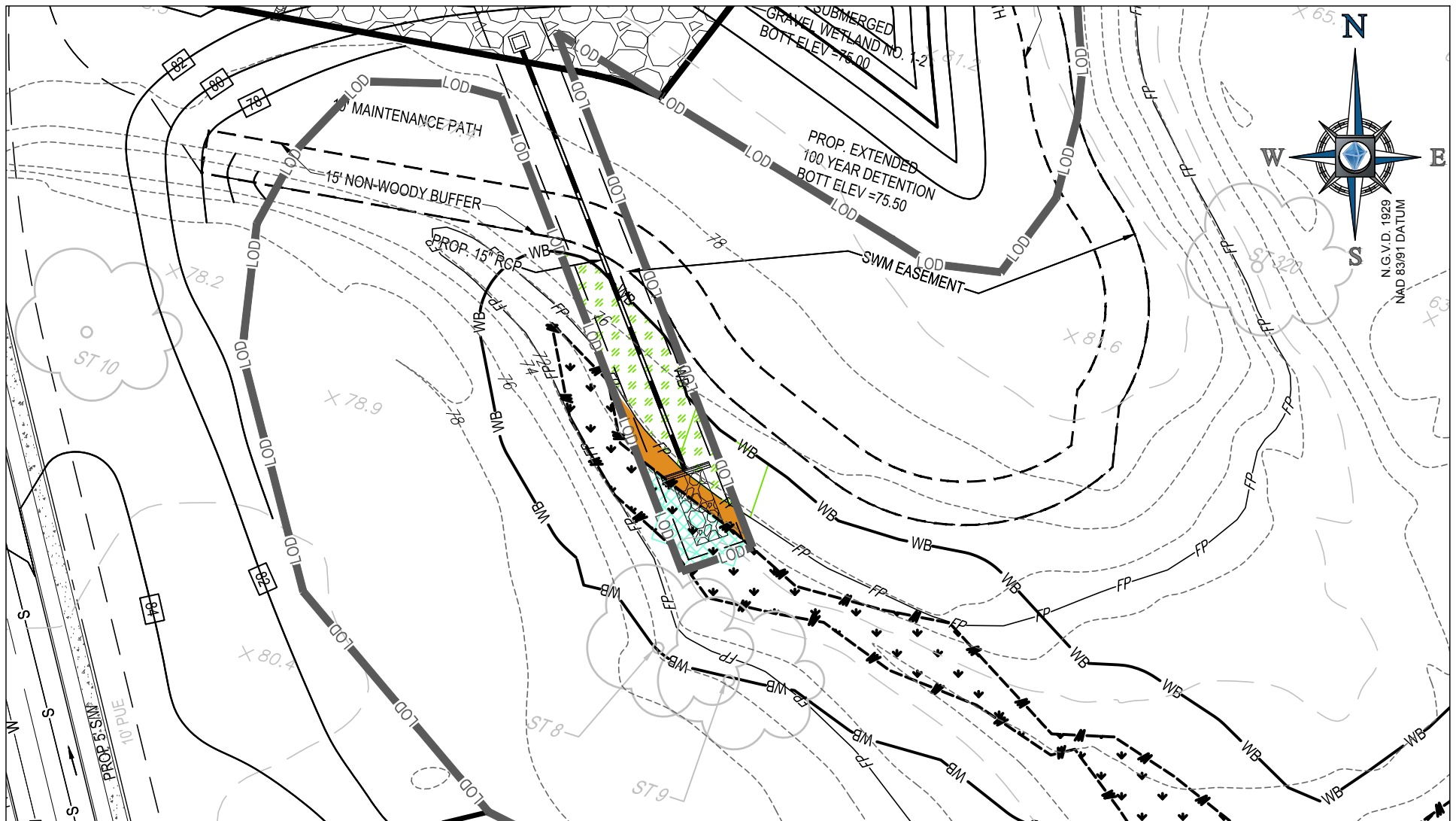
JUSTIFICATION:
 TEMPORARY IMPACTS DUE TO THE GRADING AND CONSTRUCTION OF A SANITARY SEWER UTILITY CONNECTION.

0 25 50
 1" = 50'

 BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB172043	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME LOCUST HILL	IMPACT #: IMPACT #14 SCALE: 1" = 50'
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	BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020	EXHIBIT ENVIRONMENTAL IMPACTS	IMPACT #: IMPACT #16
			PROJECT NO. MB172043	PROJECT NAME LOCUST HILL	SCALE: 1"= 50'





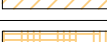





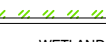



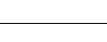



TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT N/A (TEMP) WETLAND IMPACT N/A (TEMP) RTE BUFFER IMPACT N/A (TEMP) STREAM IMPACT N/A (TEMP) 100 YR FLOODPLAIN IMPACT N/A							
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT 1,509.99 SF (PERM) WETLAND IMPACT 473.69 SF (PERM) RTE BUFFER IMPACT N/A (PERM) STREAM IMPACT N/A (PERM) 100 YR FLOODPLAIN IMPACT 331.20 SF							


WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: PERMANENT IMPACT DUE TO THE CONSTRUCTION AND PERMANENT INSTALLATION OF A STORMWATER OUTFALL.	0 25 50 1"= 50'
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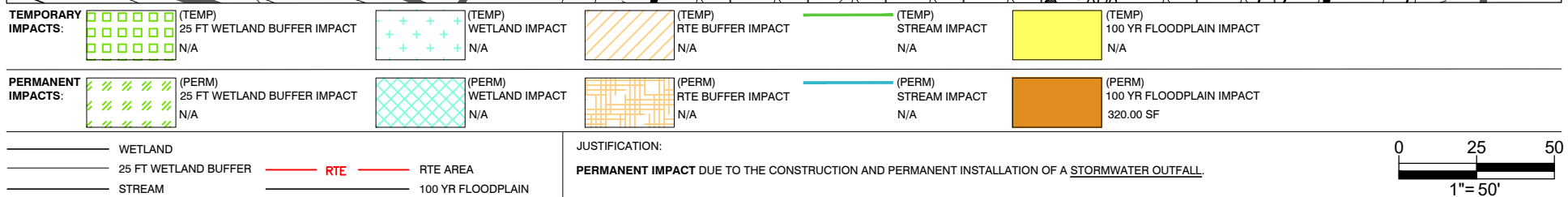
BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB172043	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME LOCUST HILL	IMPACT #: IMPACT #17 SCALE: 1"= 50'
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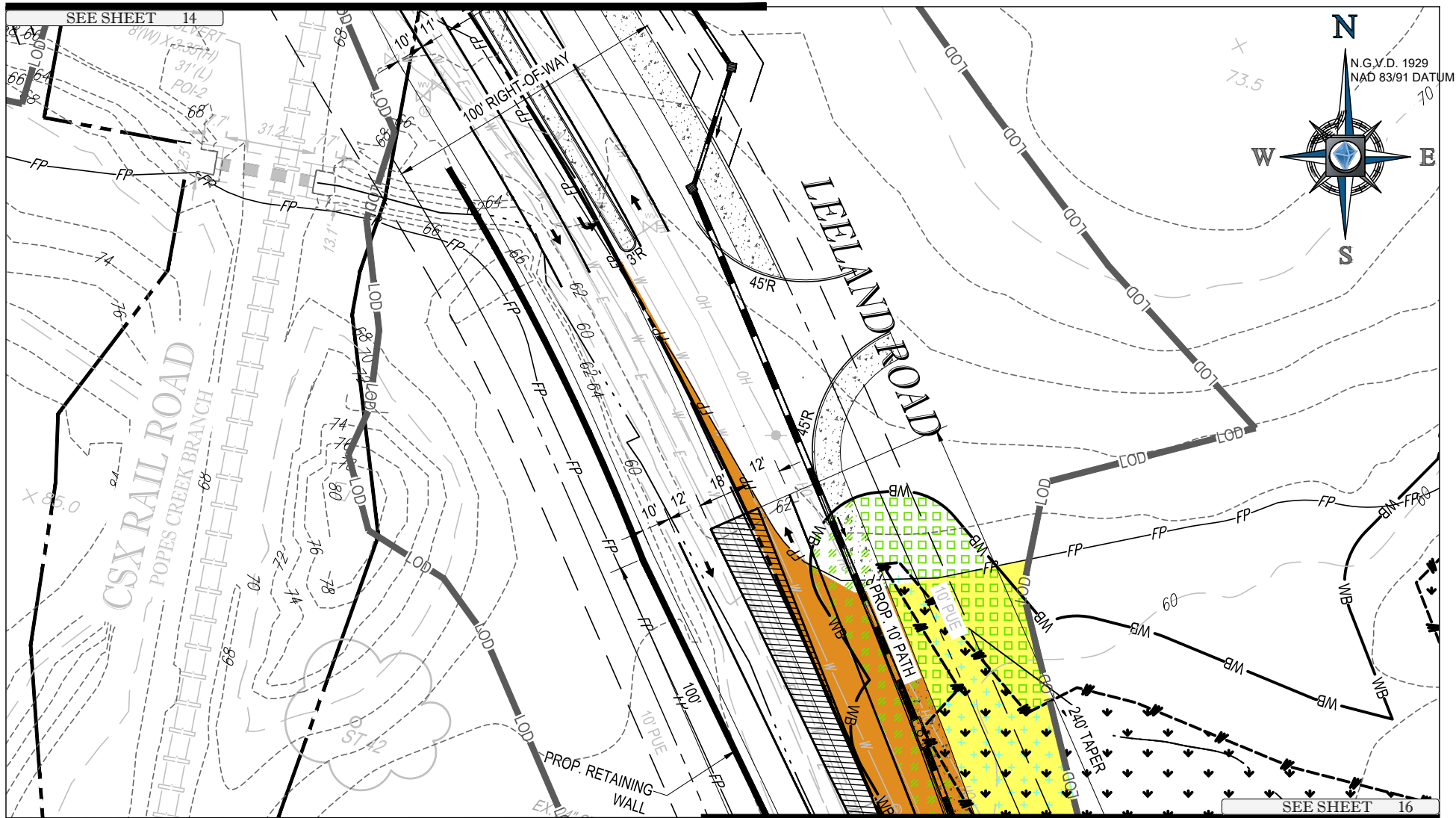
TEMPORARY IMPACTS:  (TEMP) 25 FT WETLAND BUFFER IMPACT  N/A	 (TEMP) WETLAND IMPACT  N/A	 (TEMP) RTE BUFFER IMPACT  N/A	 (TEMP) STREAM IMPACT  N/A	 (TEMP) 100 YR FLOODPLAIN IMPACT  N/A
PERMANENT IMPACTS:  (PERM) 25 FT WETLAND BUFFER IMPACT  791.68 SF	 (PERM) WETLAND IMPACT  33.60 SF	 (PERM) RTE BUFFER IMPACT  N/A	 (PERM) STREAM IMPACT  N/A	 (PERM) 100 YR FLOODPLAIN IMPACT  648.56 SF

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: PERMANENT IMPACT DUE TO THE CONSTRUCTION AND PERMANENT INSTALLATION OF A STORMWATER OUTFALL.	0 25 50 1"= 50'
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 BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB172043	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME LOCUST HILL	IMPACT #: IMPACT #18 SCALE: 1"= 50'
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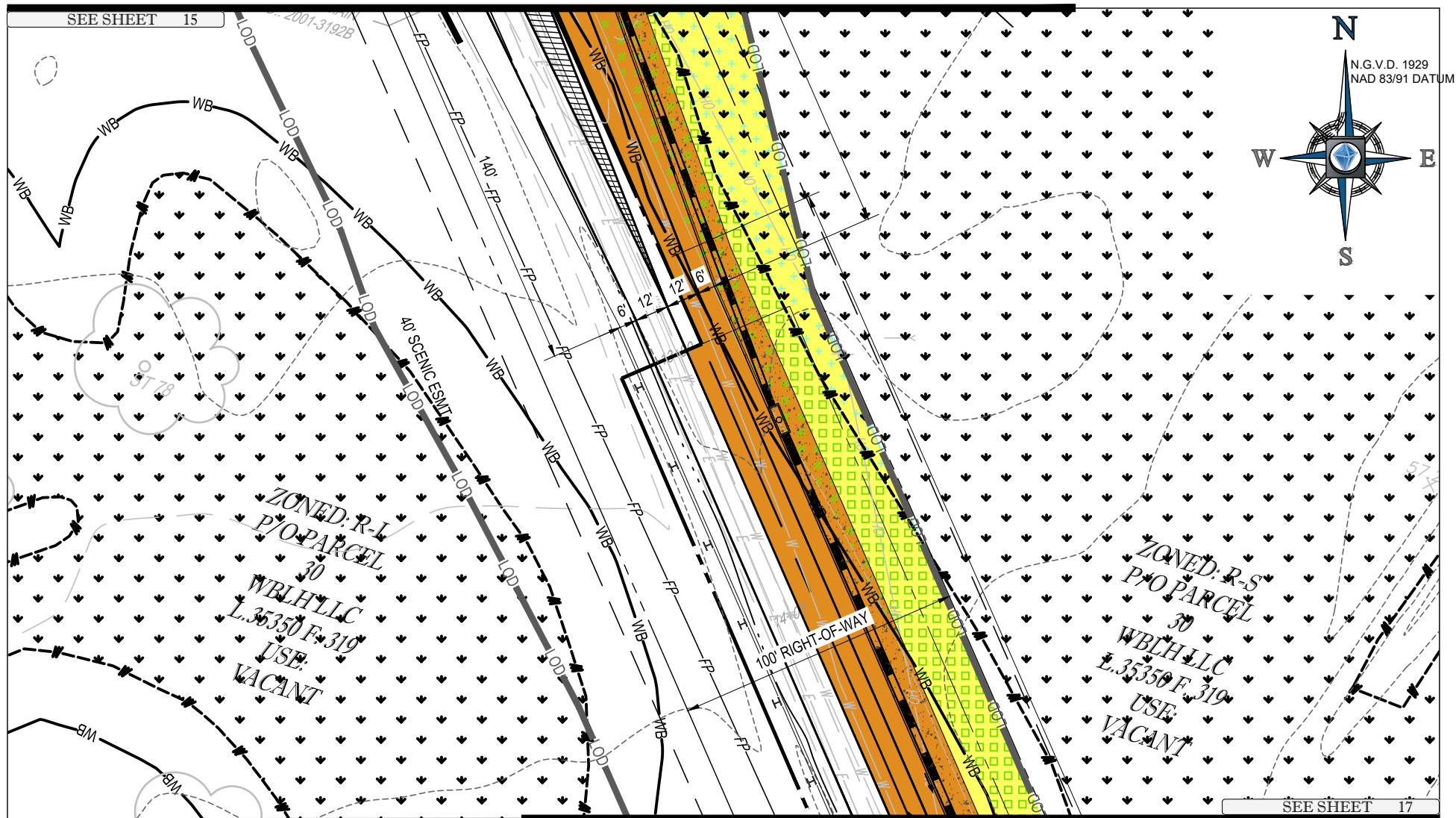
	BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020	EXHIBIT ENVIRONMENTAL IMPACTS	IMPACT #: IMPACT #20
			PROJECT NO. MB172043	PROJECT NAME LOCUST HILL	SCALE: 1"=50'



TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF	(TEMP) 25 FT WETLAND BUFFER IMPACT 3108.69 SF
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.	0 25 50 1"= 50'
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	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB162141	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME WILLOWBROOK	IMPACT #: IMPACT #10B SCALE: 1"= 50'
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TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 3,108.69 SF	(TEMP) WETLAND IMPACT 5,421.93 SF	(TEMP) RTE BUFFER IMPACT N/A	(TEMP) STREAM IMPACT N/A	(TEMP) 100 YR FLOODPLAIN IMPACT 22,263.85 SF
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	(PERM) WETLAND IMPACT 139.30 SF	(PERM) RTE BUFFER IMPACT N/A	(PERM) STREAM IMPACT N/A	(PERM) 100 YR FLOODPLAIN IMPACT 27,247.37 SF

WETLAND

25 FT WETLAND BUFFER

STREAM

RTE

RTE AREA

100 YR FLOODPLAIN

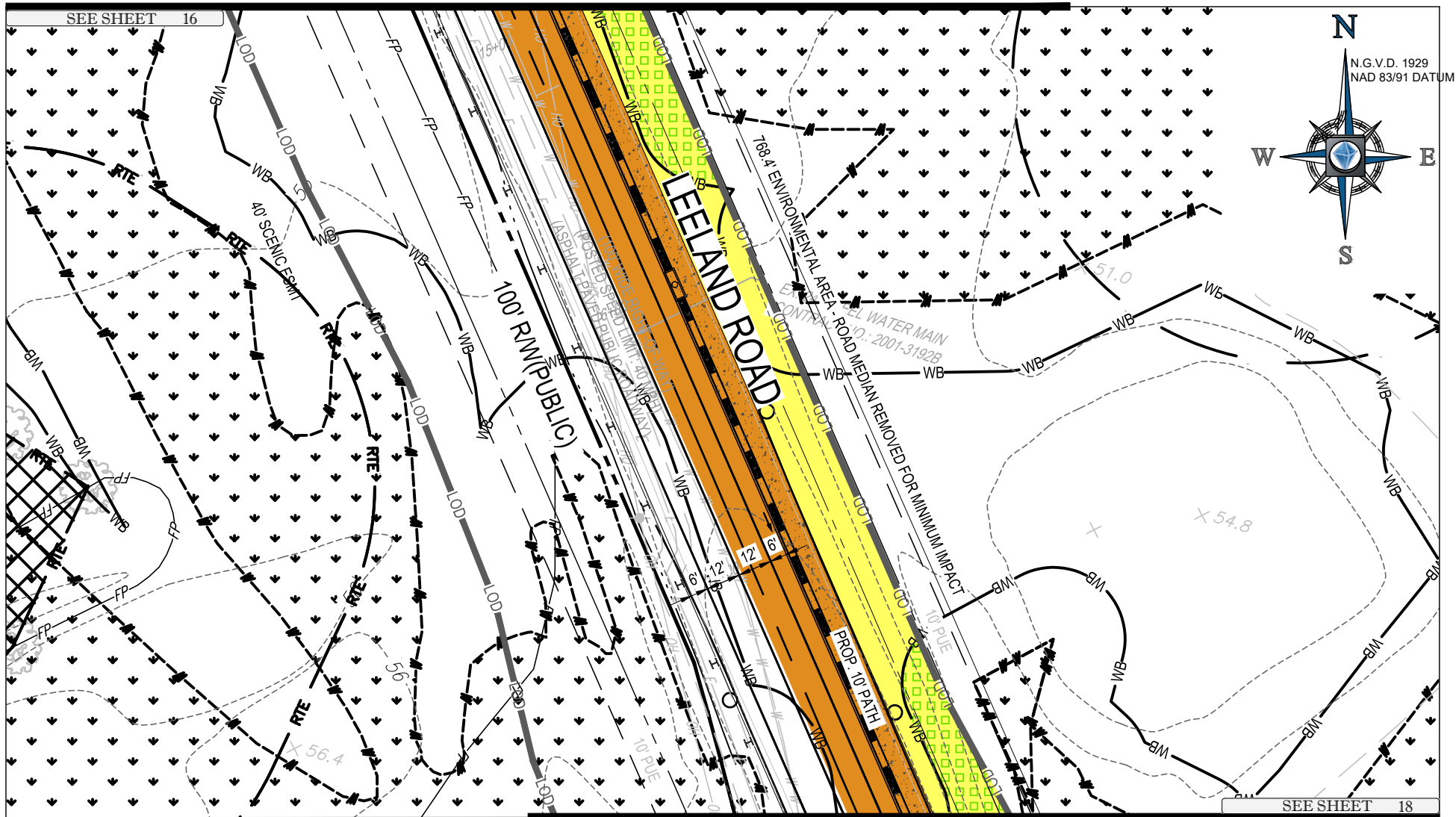
JUSTIFICATION:



PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.

0 25 50


1"=50'

BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB162141	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME WILLOWBROOK	IMPACT #: IMPACT #10B SCALE: 1"=50'



TEMPORARY IMPACTS:  (TEMP) 25 FT WETLAND BUFFER IMPACT 3,108.69 SF	 (TEMP) WETLAND IMPACT 5,421.93 SF	 (TEMP) RTE BUFFER IMPACT N/A	 (TEMP) STREAM IMPACT N/A	 (TEMP) 100 YR FLOODPLAIN IMPACT 22,263.85 SF
PERMANENT IMPACTS:  (PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF	 (PERM) WETLAND IMPACT 139.30 SF	 (PERM) RTE BUFFER IMPACT N/A	 (PERM) STREAM IMPACT N/A	 (PERM) 100 YR FLOODPLAIN IMPACT 27,247.37 SF

WETLAND 25 FT WETLAND BUFFER STREAM	RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.	0 25 50 1"=50'
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 BOHLER ENGINEERING	16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB162141	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME WILLOWBROOK	IMPACT #: IMPACT #10B SCALE: 1"=50'
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TEMPORARY IMPACTS: (TEMP) 25 FT WETLAND BUFFER IMPACT 3,108.69 SF (TEMP) WETLAND IMPACT 5,421.93 SF (TEMP) RTE BUFFER IMPACT N/A (TEMP) STREAM IMPACT N/A (TEMP) 100 YR FLOODPLAIN IMPACT 22,263.85 SF
PERMANENT IMPACTS: (PERM) 25 FT WETLAND BUFFER IMPACT 4,666.91 SF (PERM) WETLAND IMPACT 139.30 SF (PERM) RTE BUFFER IMPACT N/A (PERM) STREAM IMPACT N/A (PERM) 100 YR FLOODPLAIN IMPACT 27,247.37 SF

WETLAND 25 FT WETLAND BUFFER STREAM RTE RTE AREA 100 YR FLOODPLAIN	JUSTIFICATION: PERMANENT IMPACT DUE TO THE CONSTRUCTION OF ROADWAY CONNECTION.	0 25 50 1"= 50'
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	BOHLER ENGINEERING 16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500 Fax: (301) 809-4501	DATE FEB 2020 PROJECT NO. MB162141	EXHIBIT ENVIRONMENTAL IMPACTS PROJECT NAME WILLOWBROOK	IMPACT #: IMPACT #10B SCALE: 1"= 50'
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