

# **DELAWARE PASSENGER RAIL** **ENGINEERING STUDY**

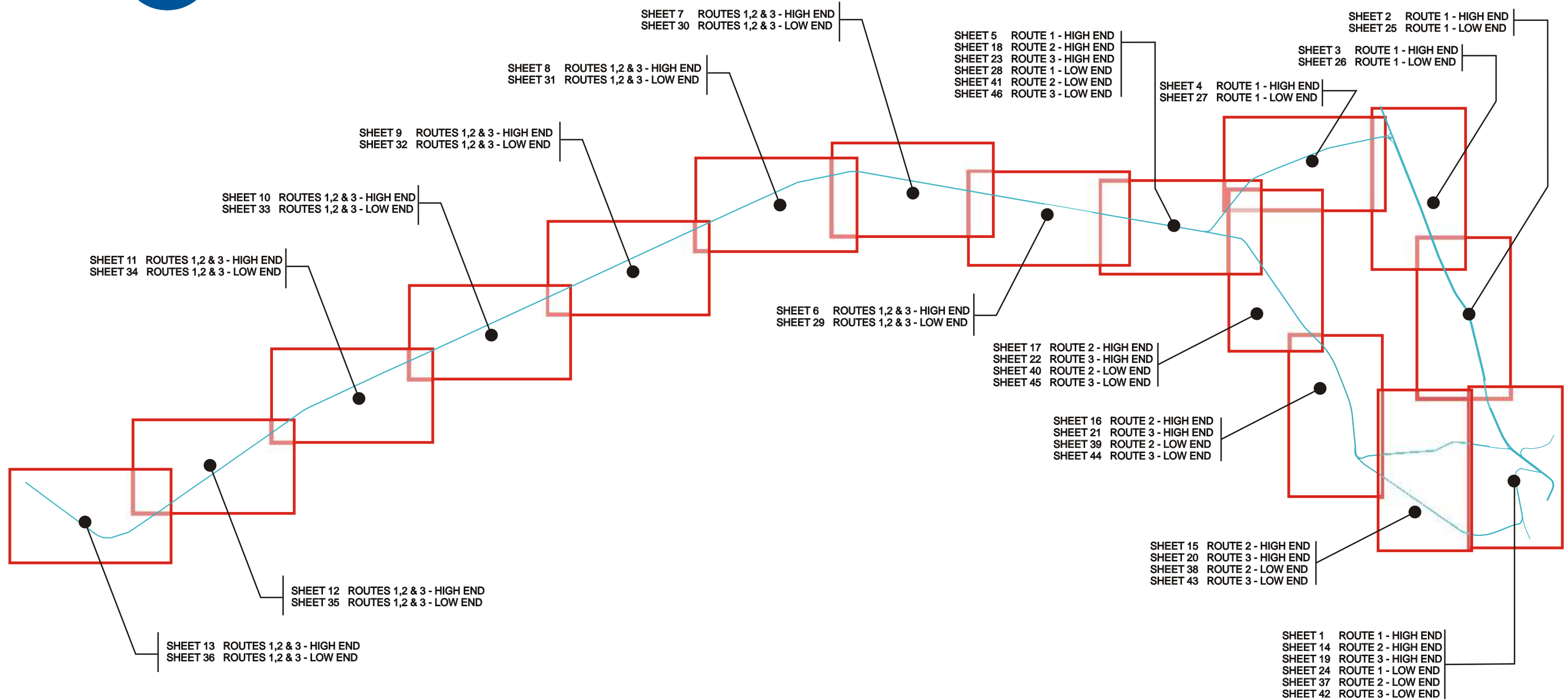


## ***PROPOSED ROUTE IMPACTS and PLAN SET***

### **LEGEND**

- ROUTE 1 - WILMINGTON TO DOVER VIA THE NEC AND NS DELMARVA SECONDARY
- ROUTE 2 - WILMINGTON TO DOVER VIA THE NEW CASTLE INDUSTRIAL R.O.W., NS NEW CASTLE SECONDARY AND DELMARVA SECONDARY
- ROUTE 3 - WILMINGTON TO DOVER VIA NS NEW CASTLE SECONDARY AND DELMARVA SECONDARY
- ROUTE 1, 2, & 3 SOUTH OF PORTER TO DOVER VIA DELMARVA SECONDARY





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# ***DELAWARE PASSENGER RAIL ENGINEERING STUDY***





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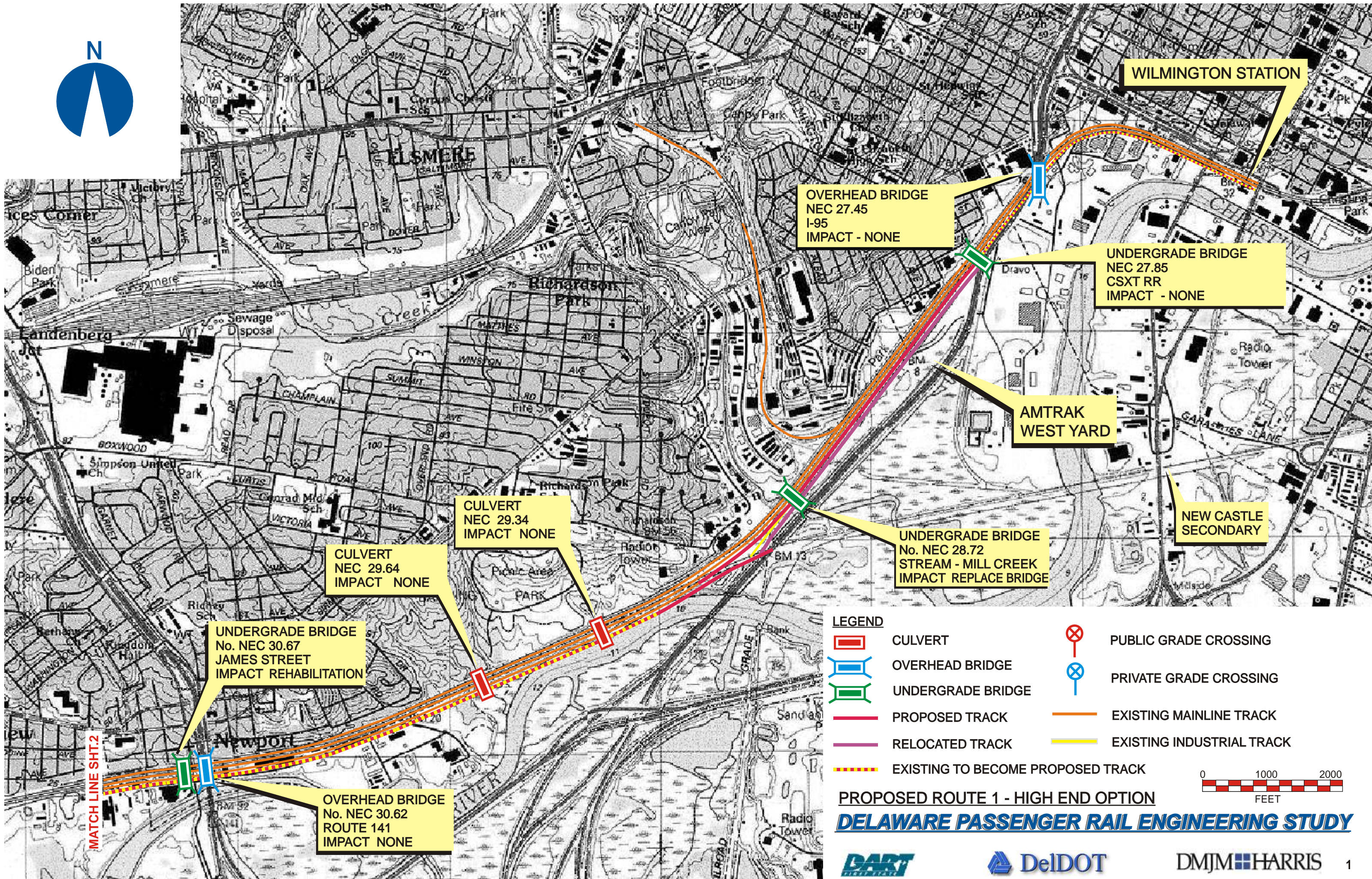
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WILMINGTON STATION

OVERHEAD BRIDGE  
NEC 27.45  
I-95  
IMPACT - NONE

UNDERGRADE BRIDGE  
NEC 27.85  
CSXT RR  
IMPACT - NONE

AMTRAK  
WEST YARD

NEW CASTLE  
SECONDARY

CULVERT  
NEC 29.34  
IMPACT NONE

CULVERT  
NEC 29.64  
IMPACT NONE

UNDERGRADE BRIDGE  
No. NEC 30.67  
JAMES STREET  
IMPACT REHABILITATION

OVERHEAD BRIDGE  
No. NEC 30.62  
ROUTE 141  
IMPACT NONE

LEGEND

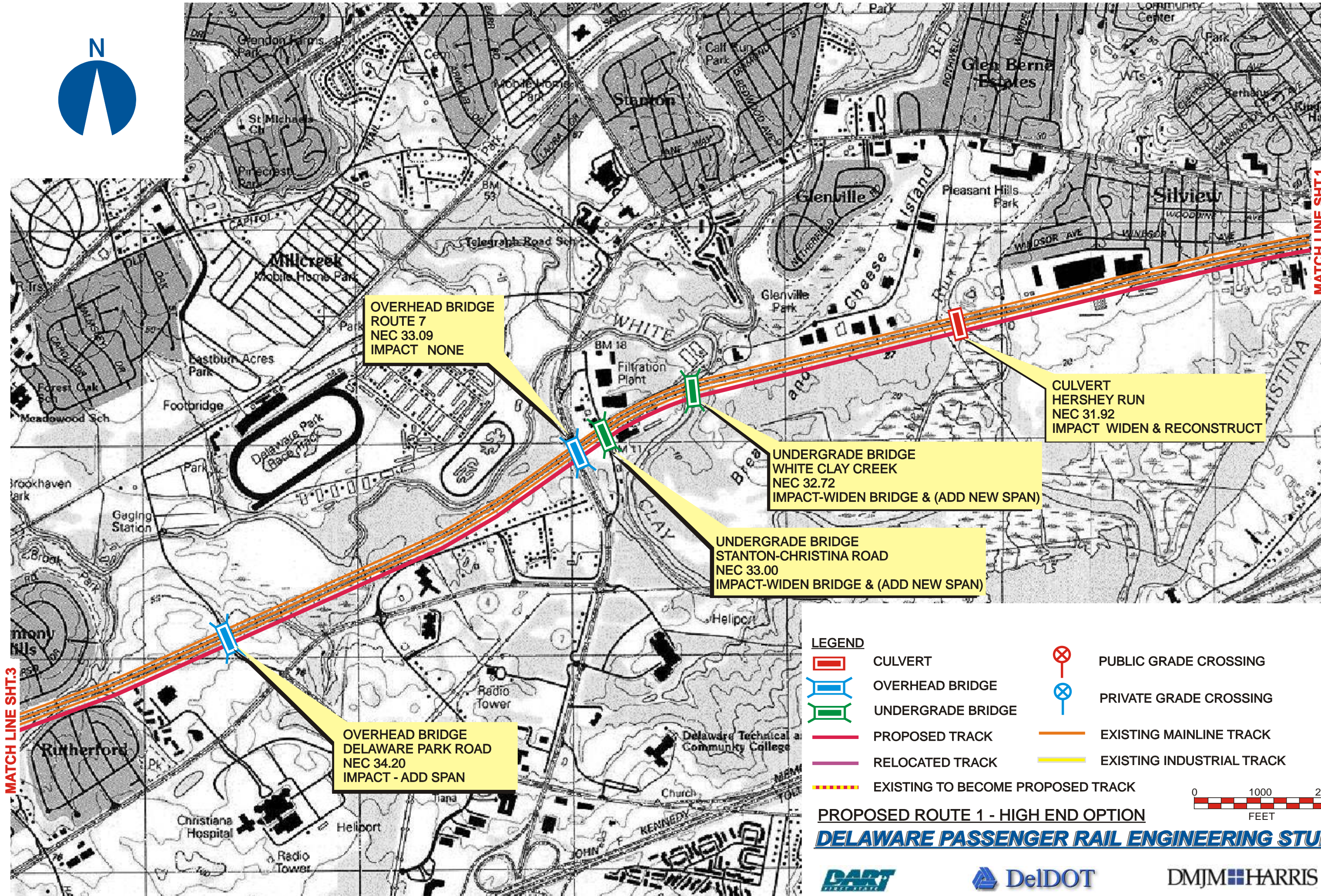
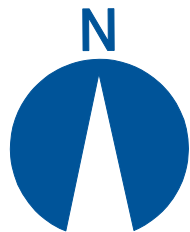
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|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 1 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







**LEGEND**

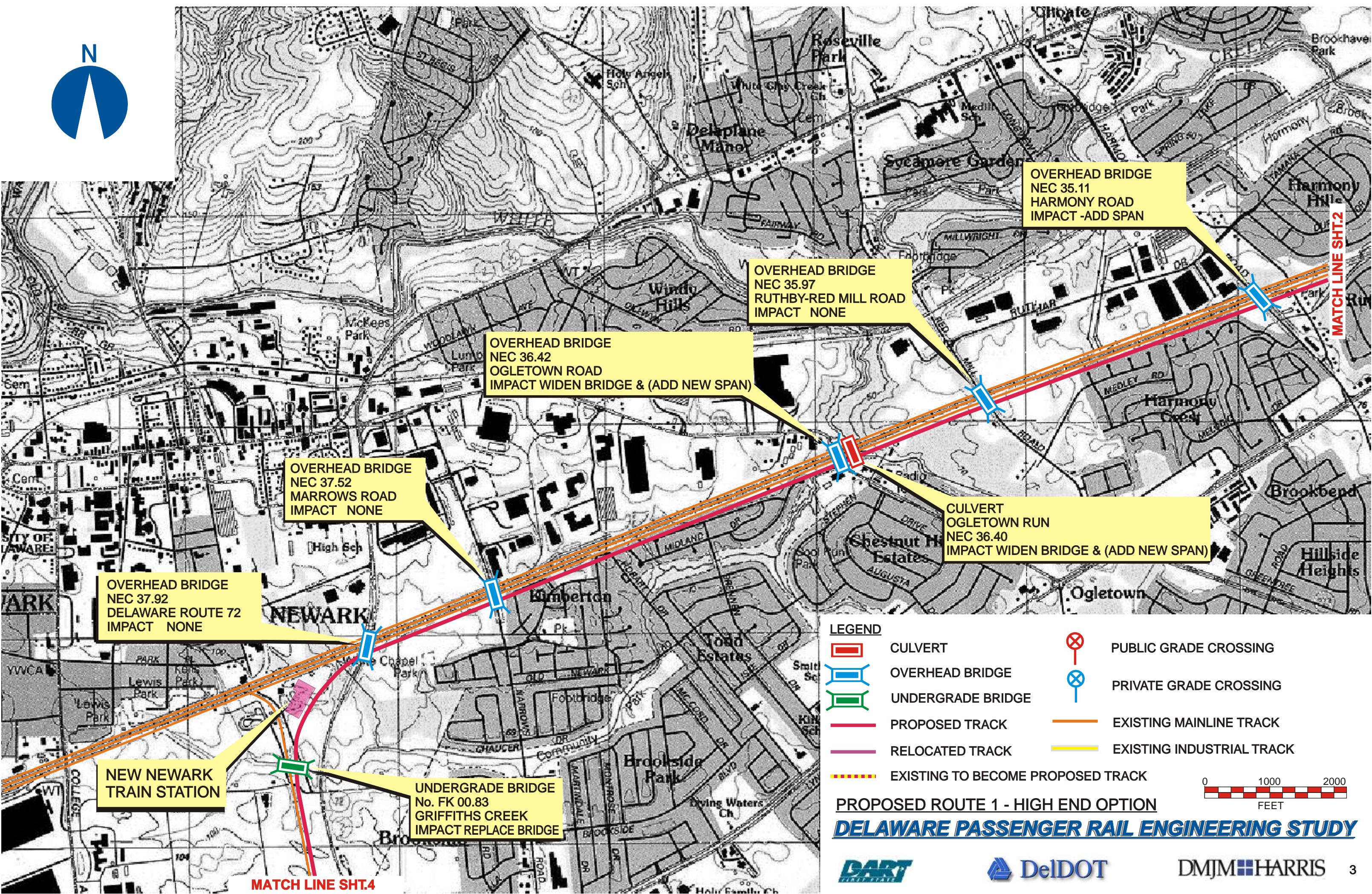
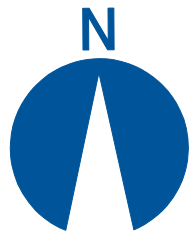
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|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
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|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 1 - HIGH END OPTION

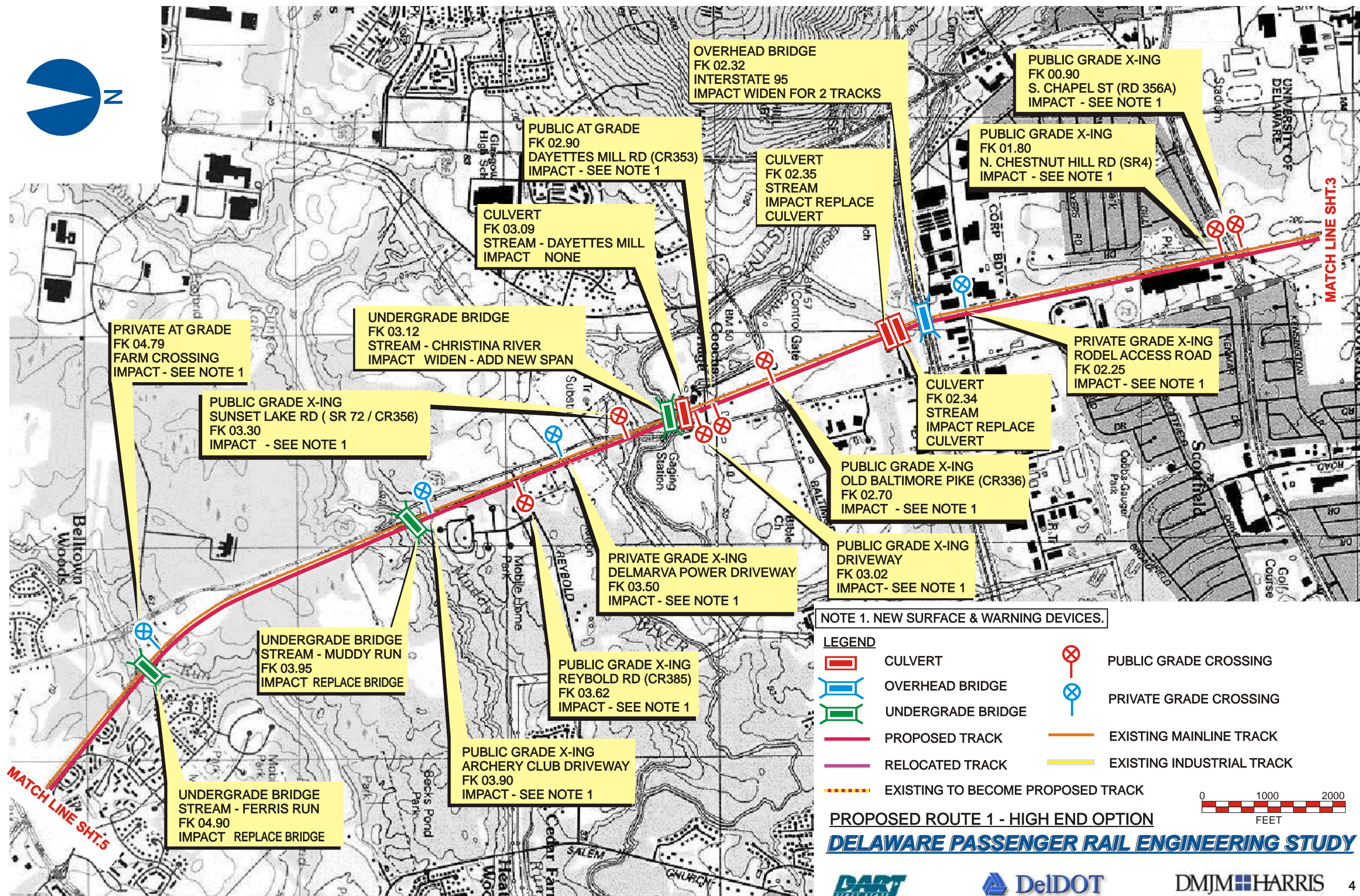
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**



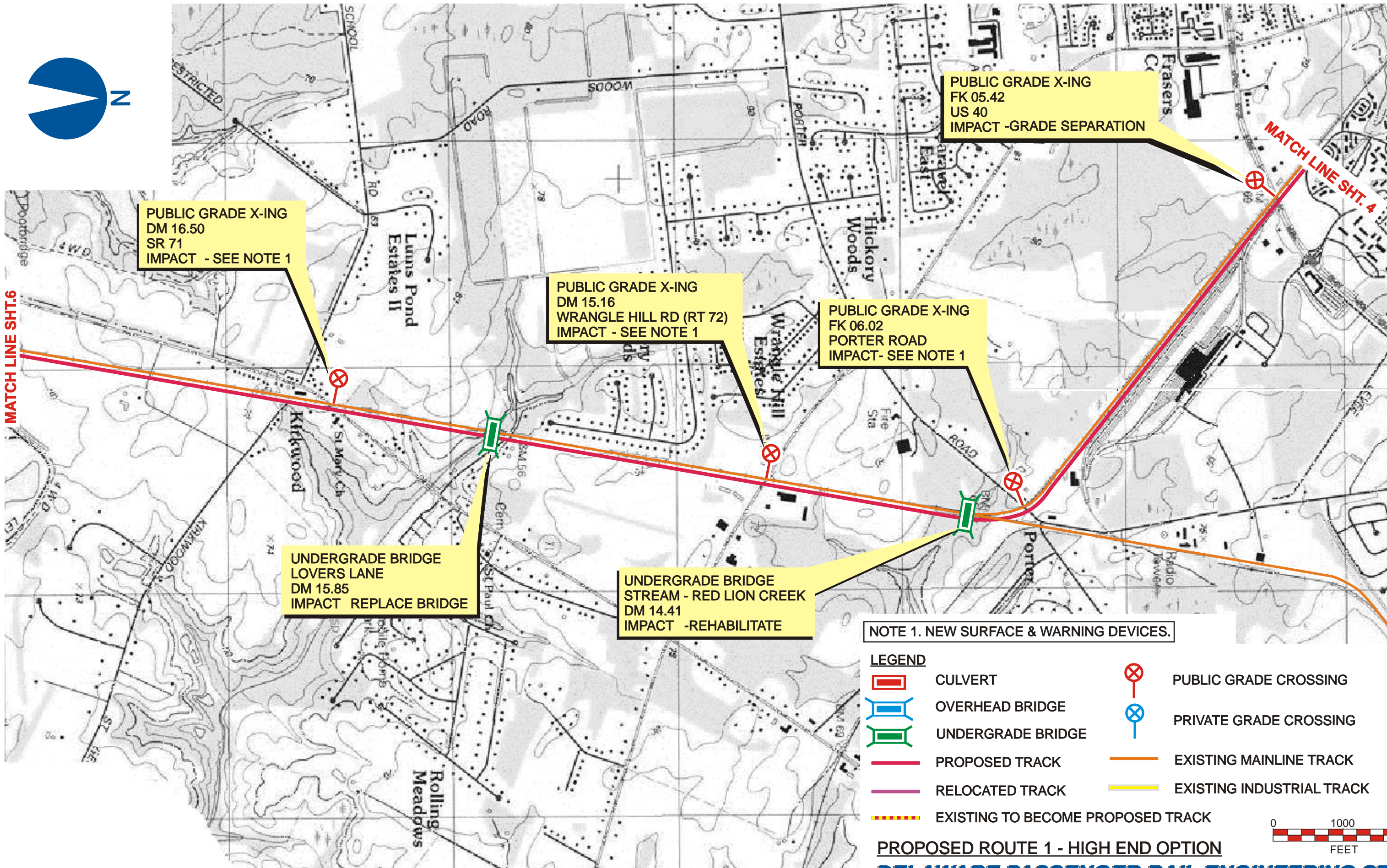
















MATCH LINE SHT. 7

PUBLIC GRADE X-ING  
US 301 / SR 896  
DM 20.60  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
DM 19.01  
LOREWOOD GROVE RD (CR412)  
IMPACT - SEE NOTE 1

UNDERGRADE BRIDGE  
DM 18.90  
STREAM  
IMPACT NONE

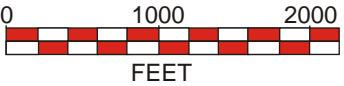
UNDERGRADE BRIDGE  
C&D CANAL  
DM 18.33  
IMPACT NONE

MATCH LINE SHT. 5, 18 & 23

NOTE 1. NEW SURFACE & WARNING DEVICES.

**LEGEND**

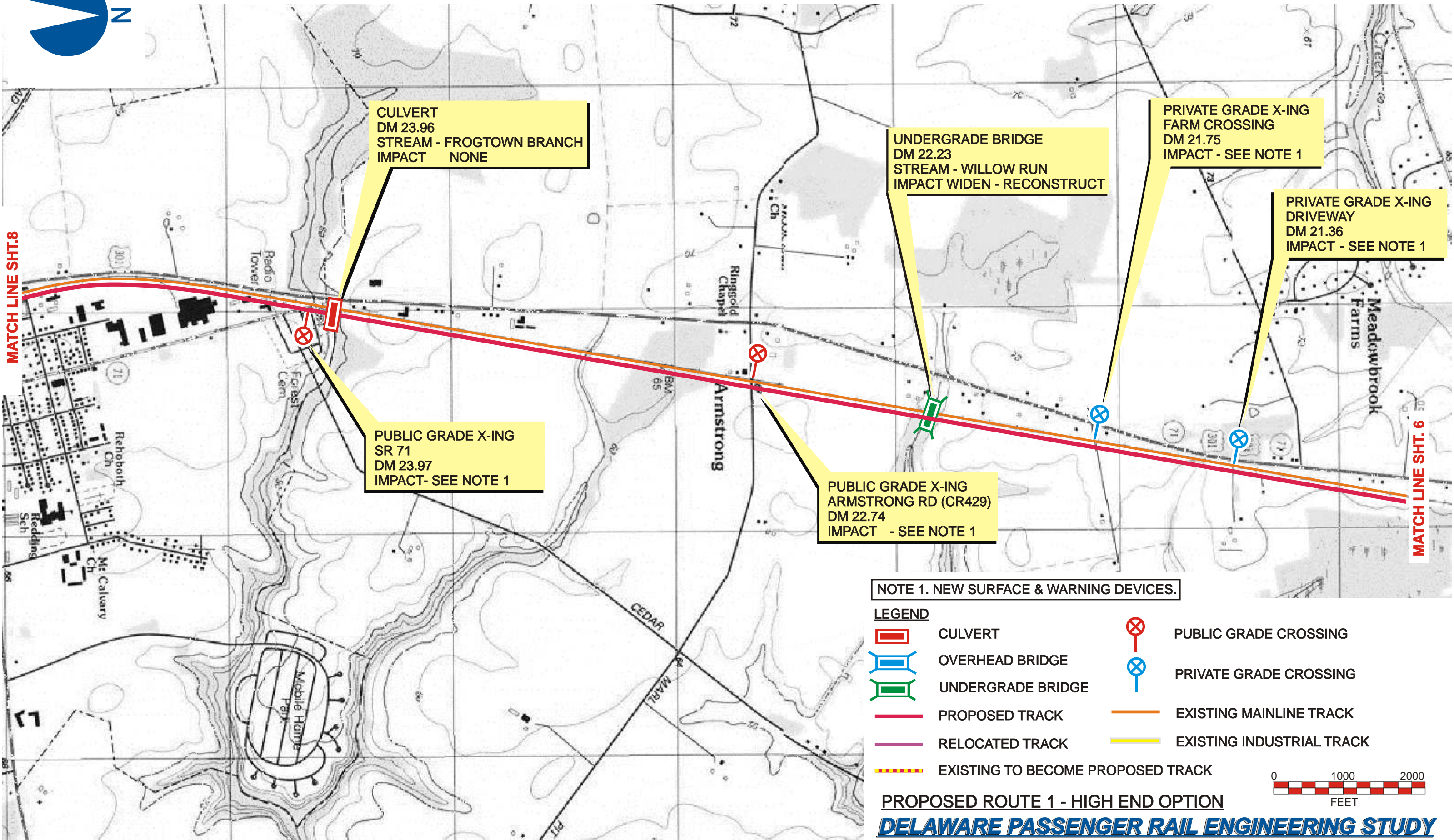
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	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		



PROPOSED ROUTE 1 - HIGH END OPTION  
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**



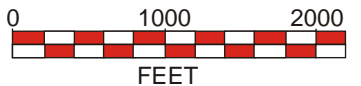




NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND

- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

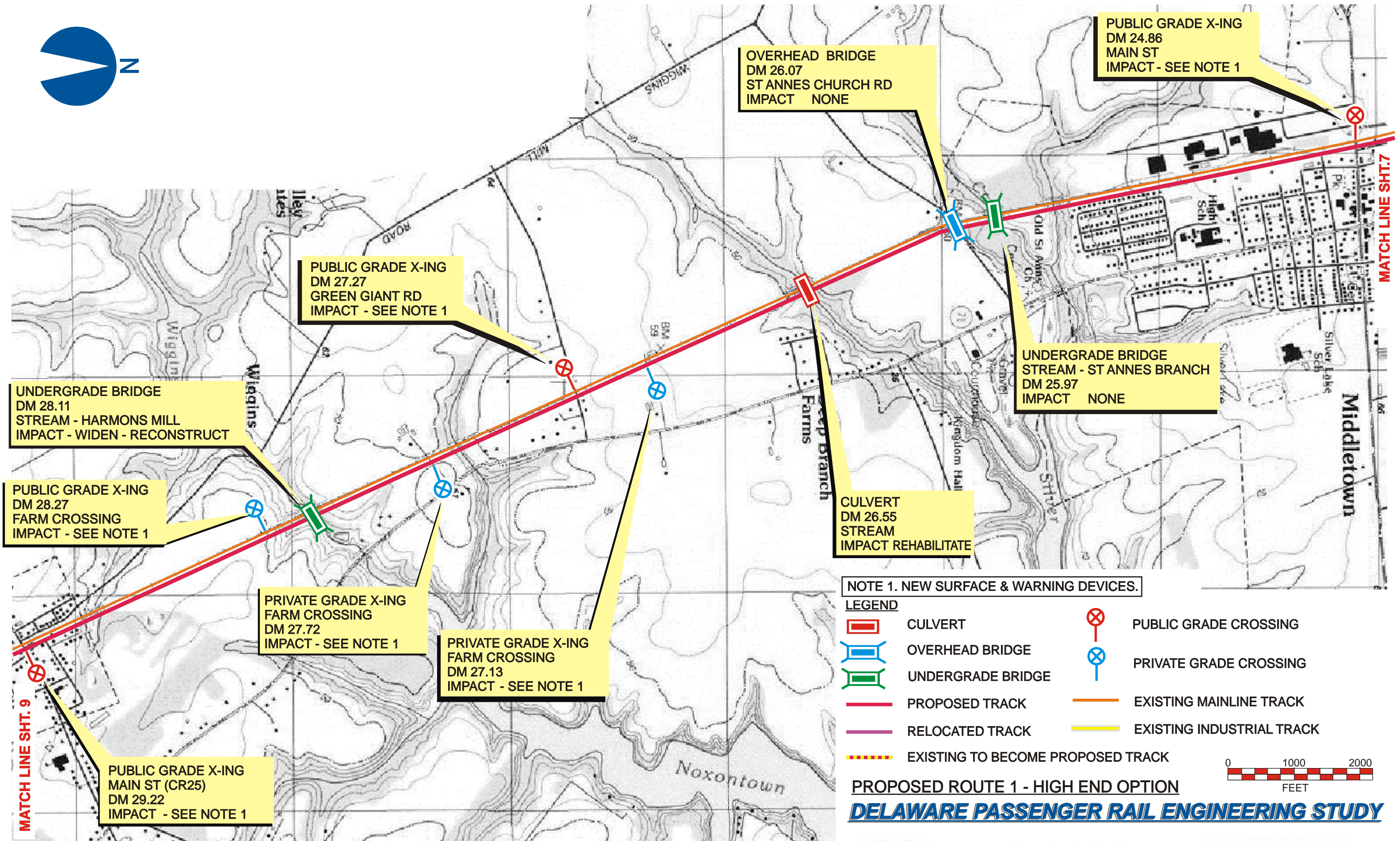
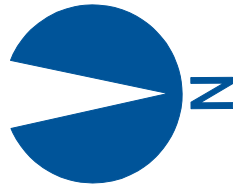


PROPOSED ROUTE 1 - HIGH END OPTION

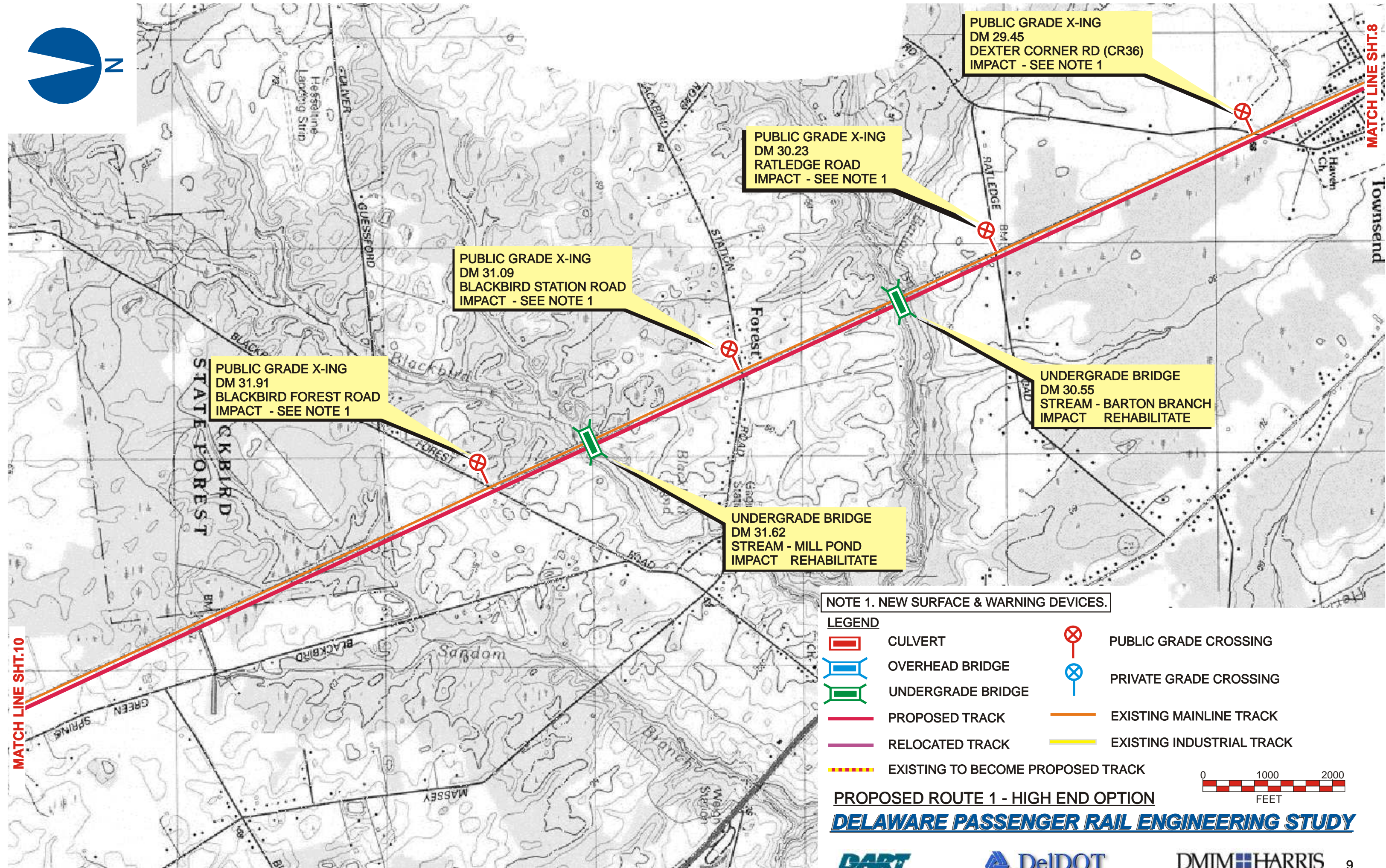
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**



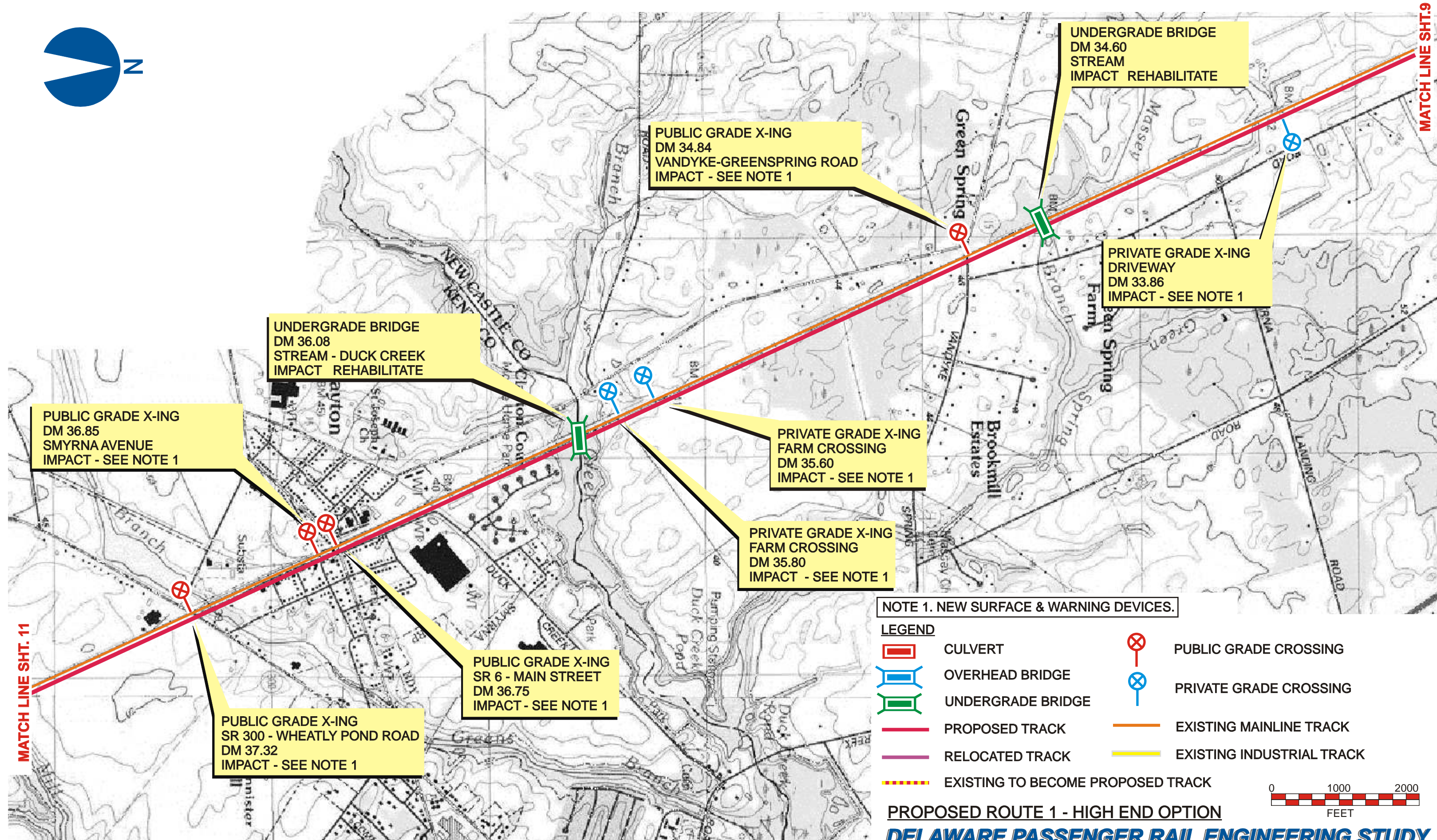




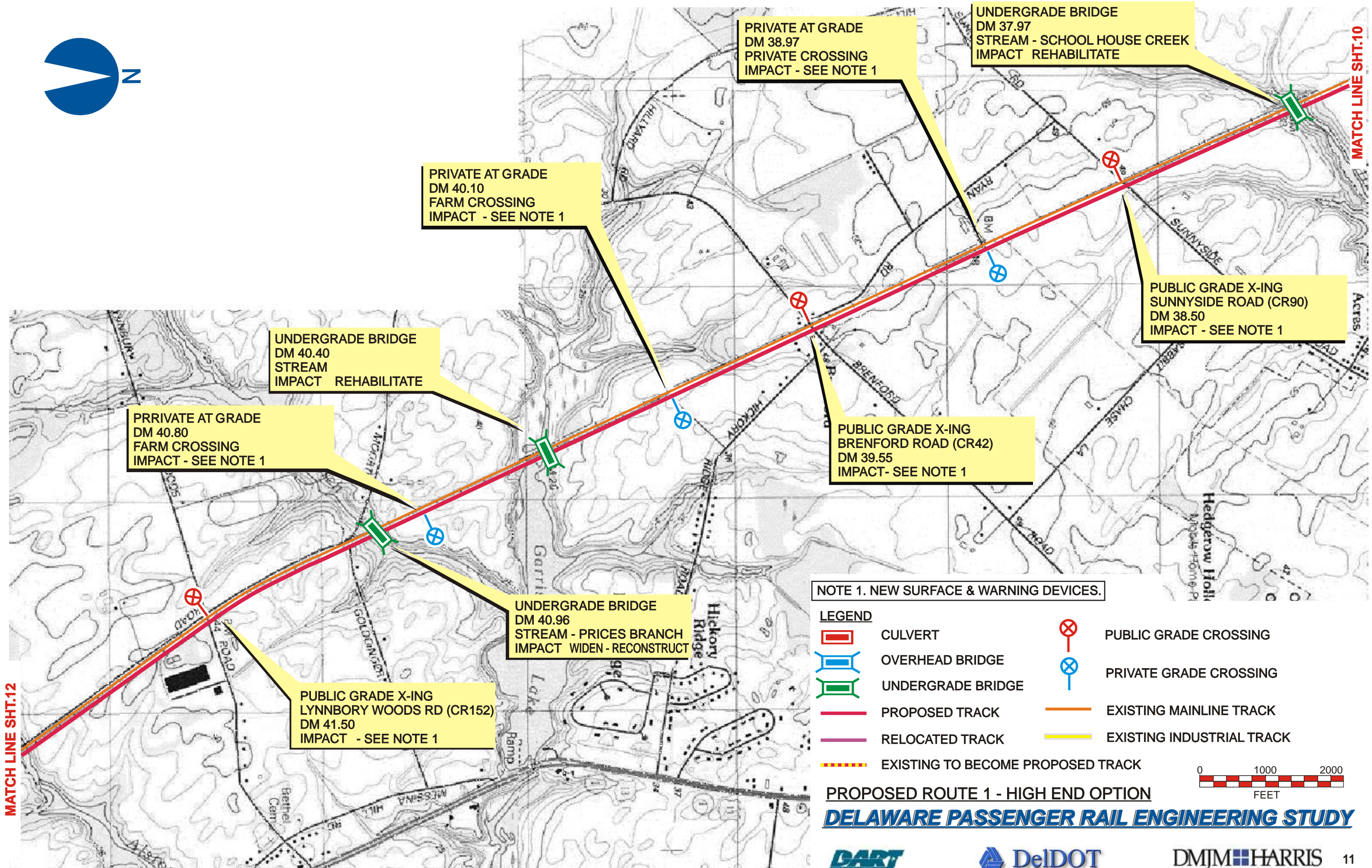








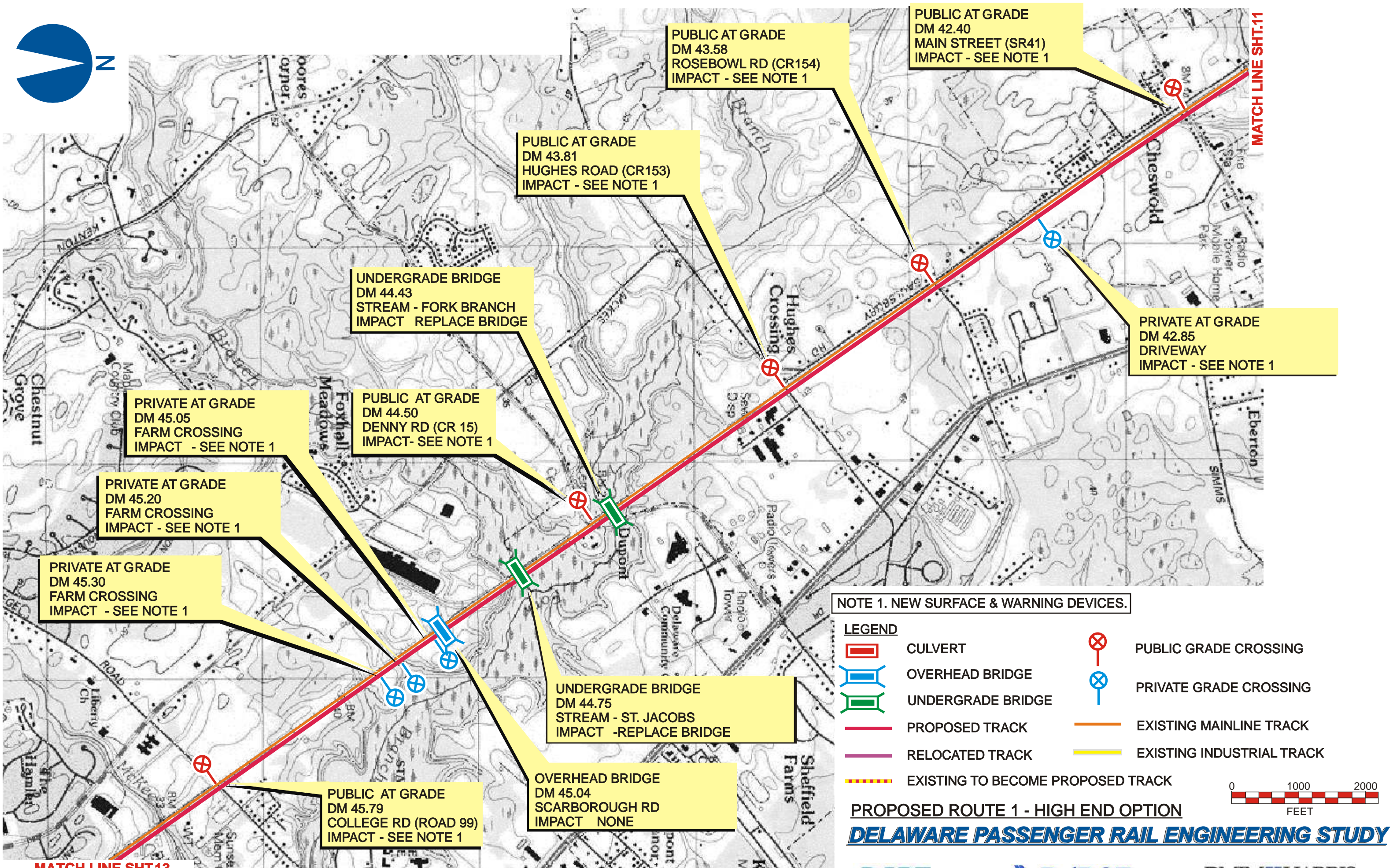




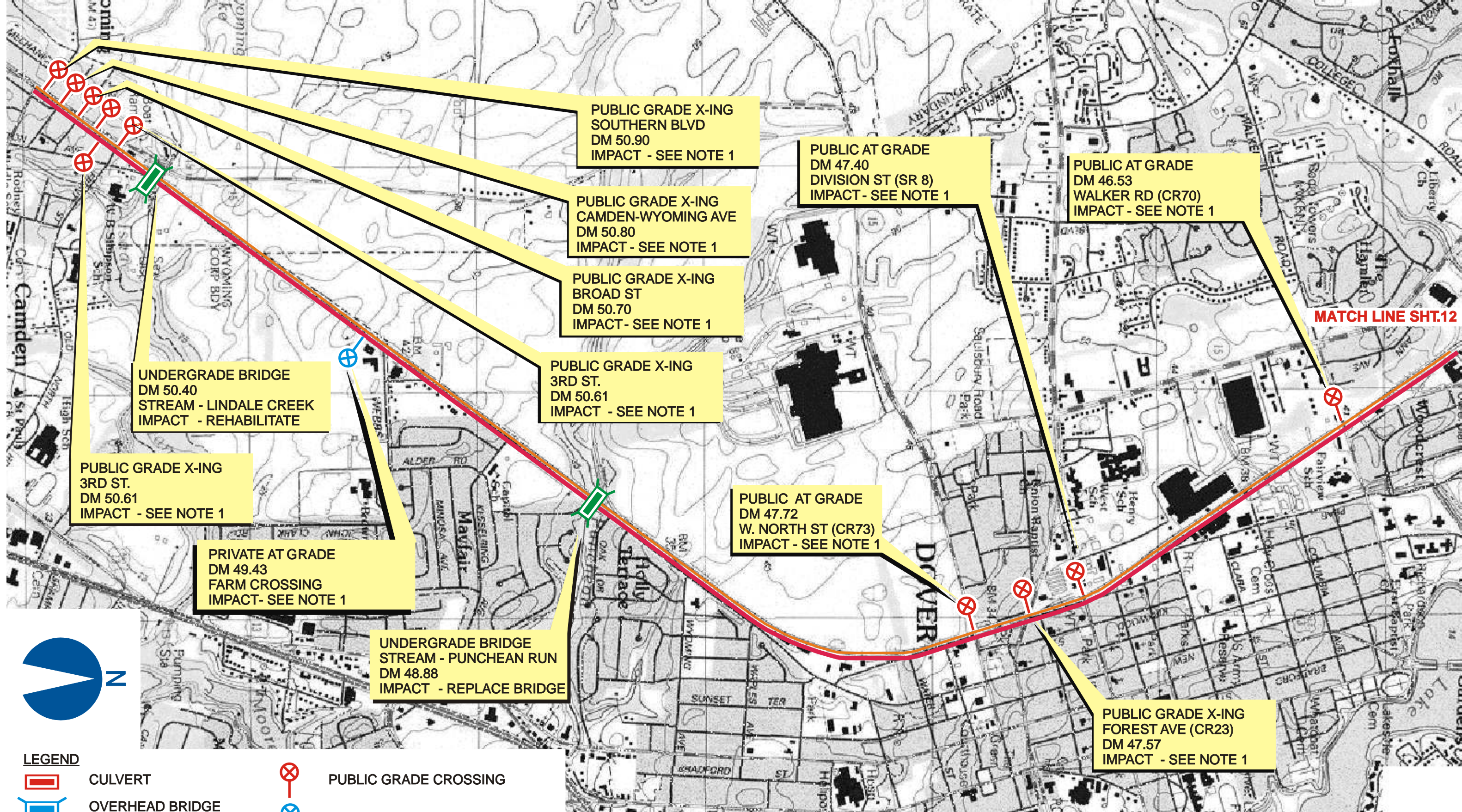
MATCH LINE SHT.12

MATCH LINE SHT.10





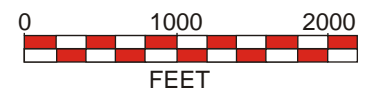




#### LEGEND

- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

NOTE 1. NEW SURFACE & WARNING DEVICES.

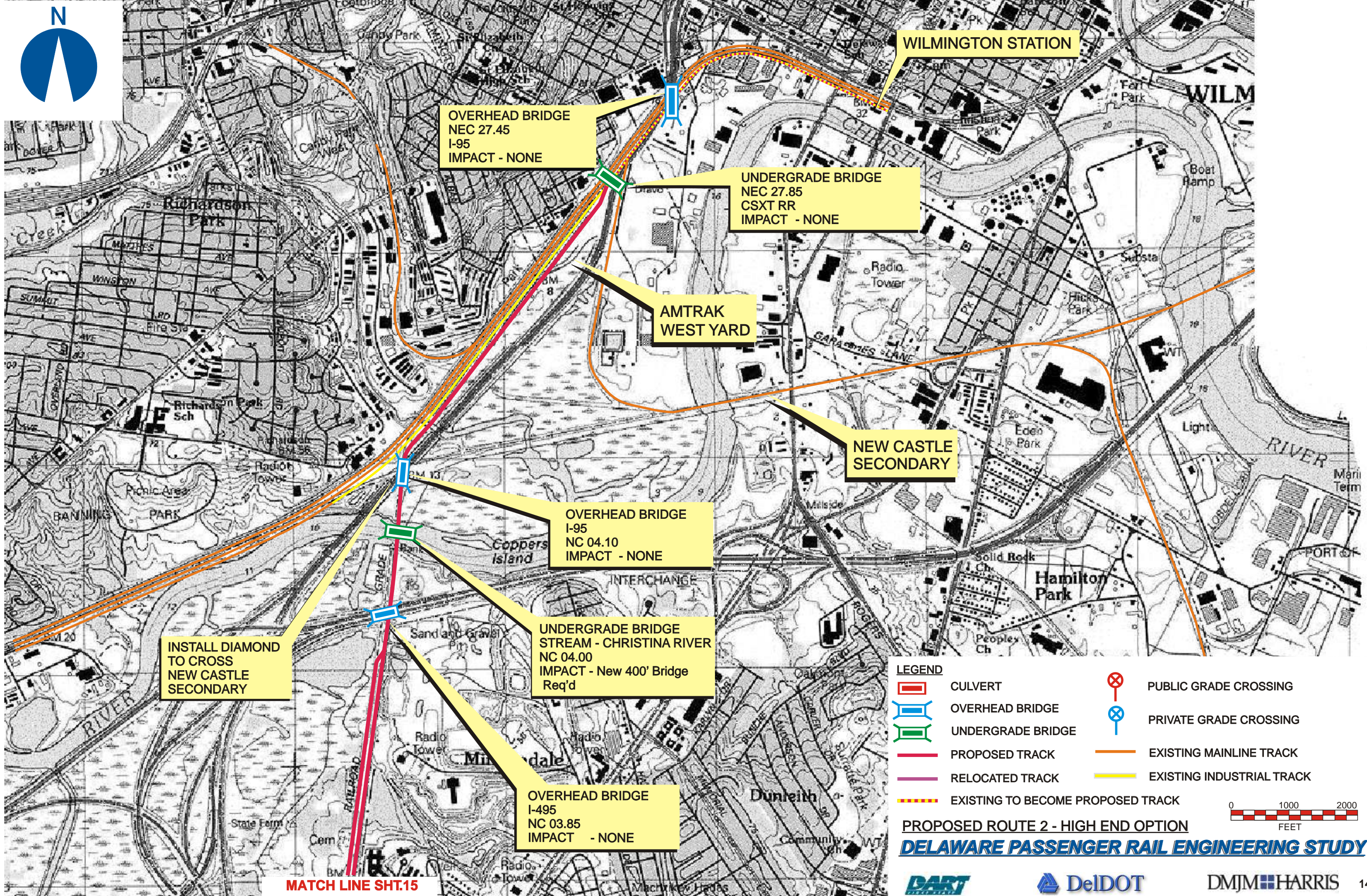
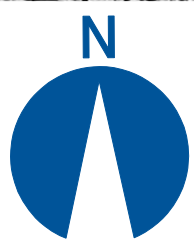


PROPOSED ROUTE 1 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**











MATCH LINE SHT.14

OVERHEAD BRIDGE  
I-295  
NC 02.62  
IMPACT - WIDEN EAST. ABUTMENT

OVERHEAD BRIDGE  
US 13  
NC 02.40  
IMPACT CRASHWALL  
REQ'D

PRIVATE AT GRADE  
NC 02.38  
ACCESS ROAD TO BASEBALL FIELD  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
BOULDEN ROAD  
NC 02.08  
IMPACT - SEE NOTE 1

CULVERT  
STREAM - BROAD DYKE CANAL  
NC 00.72  
IMPACT - NONE

NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND

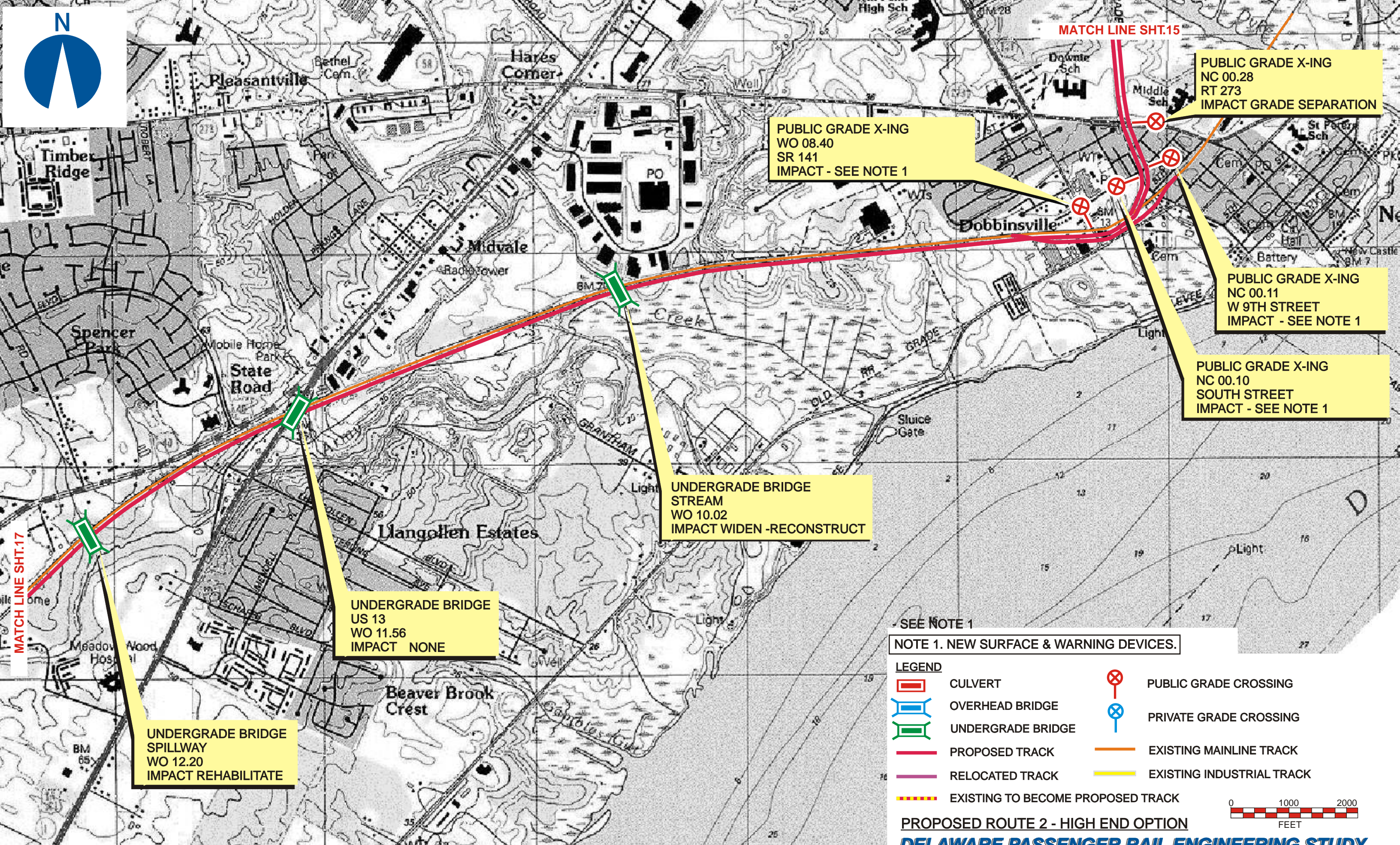
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|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 2 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







PUBLIC GRADE X-ING  
WO 08.40  
SR 141  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
NC 00.28  
RT 273  
IMPACT GRADE SEPARATION

PUBLIC GRADE X-ING  
NC 00.11  
W 9TH STREET  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
NC 00.10  
SOUTH STREET  
IMPACT - SEE NOTE 1

UNDERGRADE BRIDGE  
STREAM  
WO 10.02  
IMPACT WIDEN -RECONSTRUCT

UNDERGRADE BRIDGE  
US 13  
WO 11.56  
IMPACT NONE

UNDERGRADE BRIDGE  
SPILLWAY  
WO 12.20  
IMPACT REHABILITATE

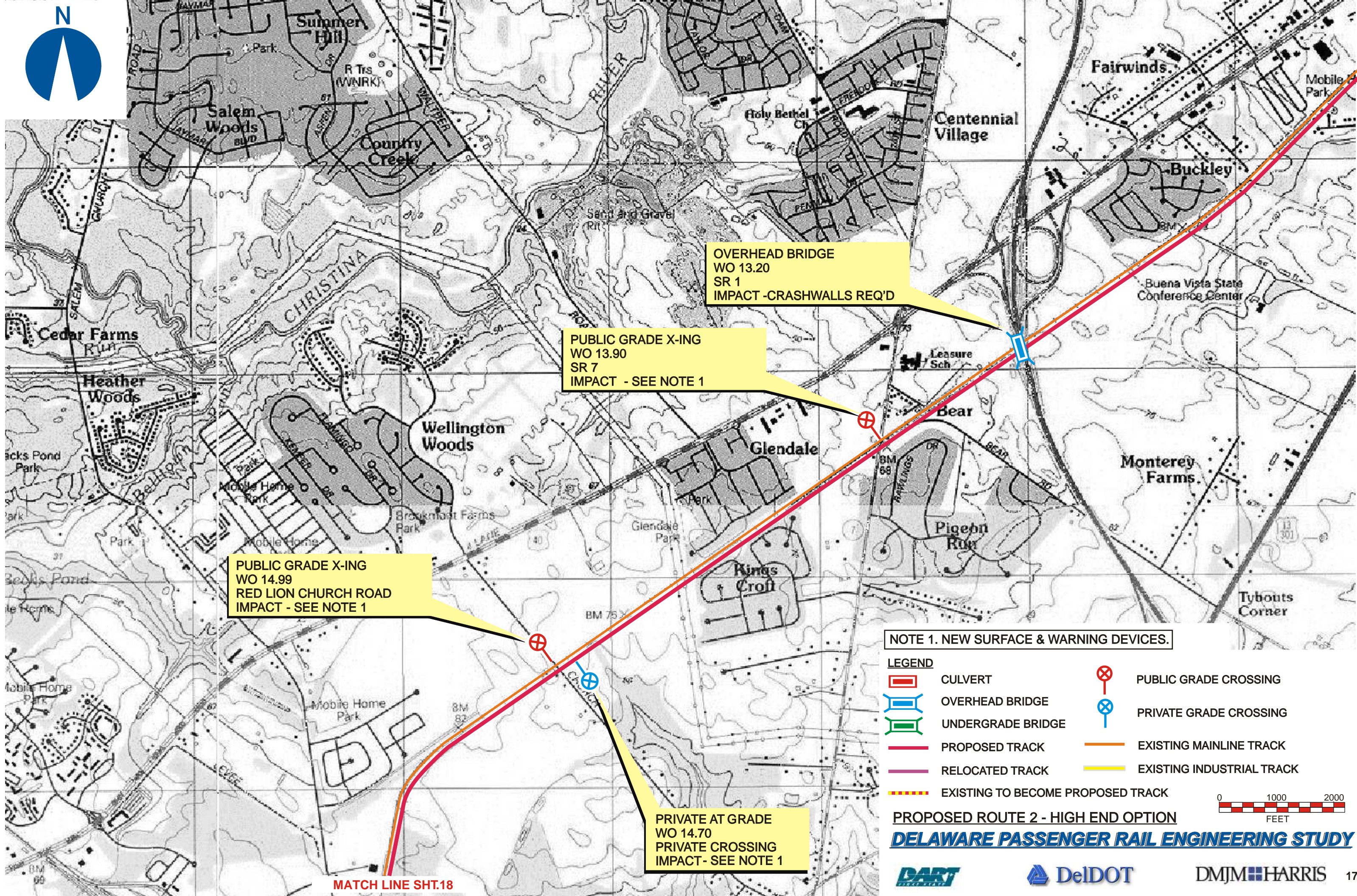
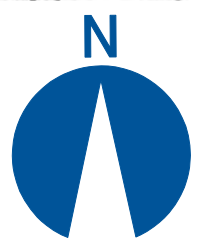
SEE NOTE 1  
NOTE 1. NEW SURFACE & WARNING DEVICES.

- LEGEND**
- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 2 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





OVERHEAD BRIDGE  
WO 13.20  
SR 1  
IMPACT - CRASHWALLS REQ'D

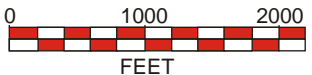
PUBLIC GRADE X-ING  
WO 13.90  
SR 7  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 14.99  
RED LION CHURCH ROAD  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
WO 14.70  
PRIVATE CROSSING  
IMPACT - SEE NOTE 1

NOTE 1. NEW SURFACE & WARNING DEVICES.

- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |



PROPOSED ROUTE 2 - HIGH END OPTION

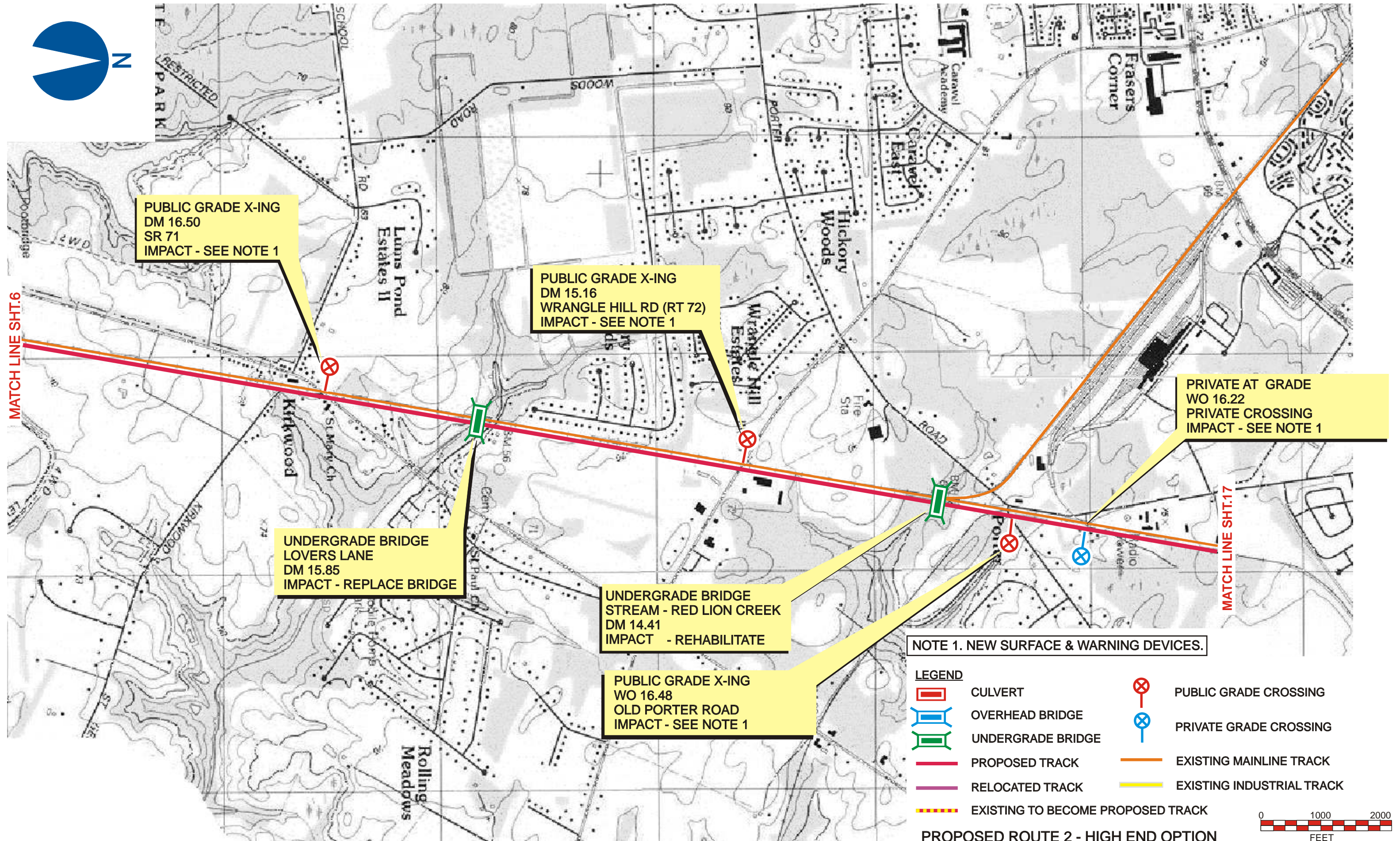
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**



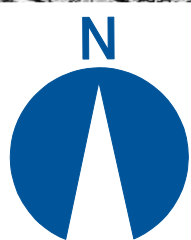
MATCH LINE SHT.16

MATCH LINE SHT.18









WILMINGTON STATION

OVERHEAD BRIDGE  
NEC 27.45  
I-95  
IMPACT - NONE

WILMINGTON &  
NORTHERN  
RIGHT-OF-WAY

UNDERGRADE BRIDGE  
NEC 27.85  
CSXT RR  
IMPACT - NONE

AMTRAK  
WEST YARD

PUBLIC GRADE X-ING  
GARASCHERS LANE  
WO 02.30  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
NEW CASTLE AVENUE  
WO 02.60  
IMPACT - SEE NOTE 1

OVERHEAD BRIDGE  
I-495  
WO 03.05  
IMPACT- SHIFT EXIST. TRACK

NEW CASTLE  
SECONDARY

UNDERGRADE BRIDGE  
STREAM - CHRISTINA RIVER  
WO 01.68  
IMPACT - REHABILITATE

OVERHEAD BRIDGE  
US 13  
WO 01.91  
IMPACT - NONE

CULVERT  
WO 1.92  
IMPACT - REPLACE

PRIVATE AT GRADE  
WO 03.75  
PRIVATE DRIVEWAY  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 04.30  
LAMBSONS LANE  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
TERMINAL AVENUE  
WO 03.45  
IMPACT - SEE NOTE 1

NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND



CULVERT

OVERHEAD BRIDGE

UNDERGRADE BRIDGE

PROPOSED TRACK

RELOCATED TRACK

EXISTING TO BECOME PROPOSED TRACK



PUBLIC GRADE CROSSING

PRIVATE GRADE CROSSING

EXISTING MAINLINE TRACK

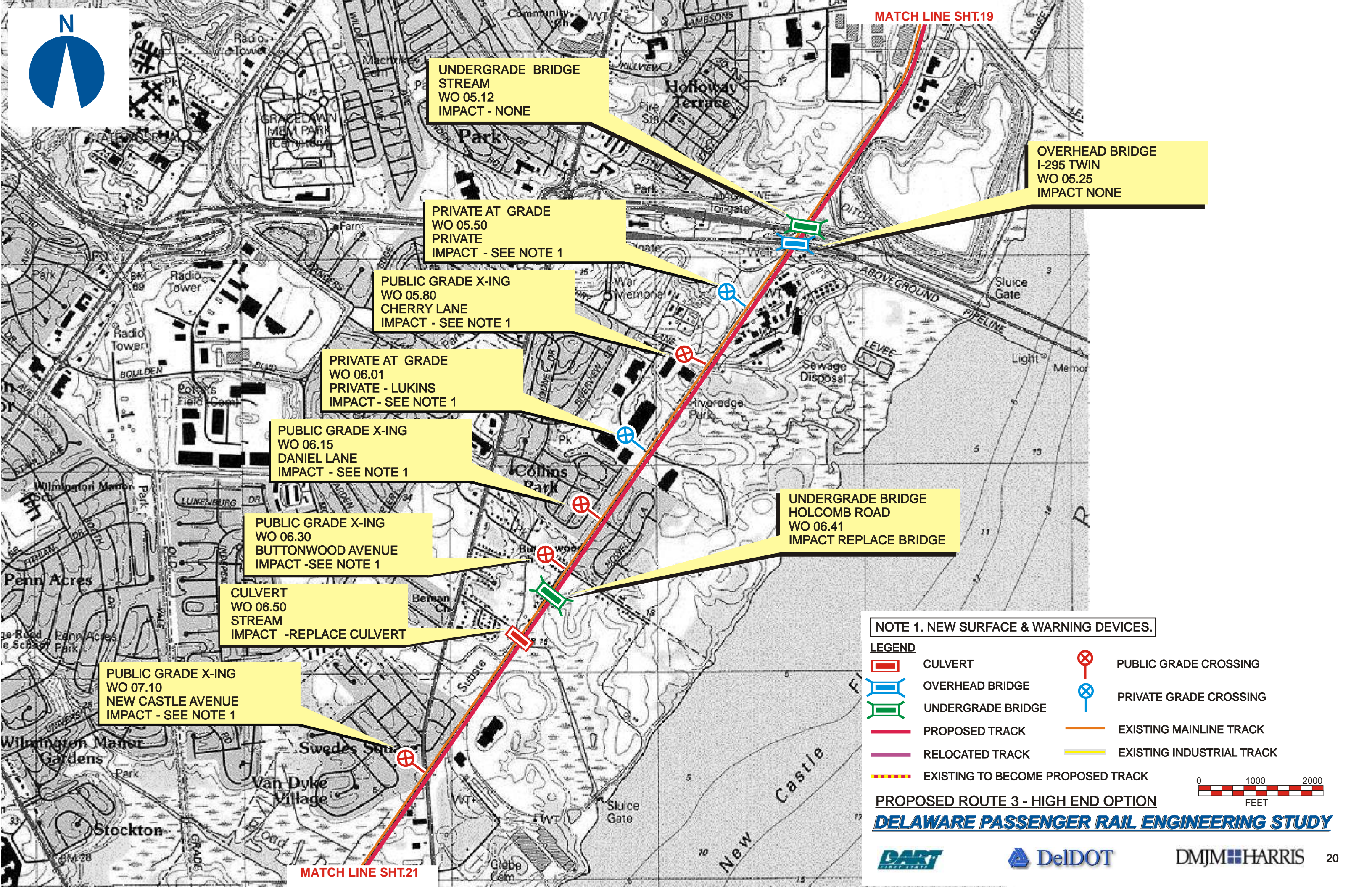
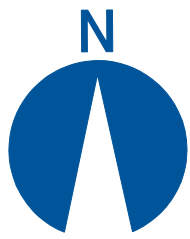
EXISTING INDUSTRIAL TRACK

PROPOSED ROUTE 3 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







UNDERGRADE BRIDGE  
STREAM  
WO 05.12  
IMPACT - NONE

OVERHEAD BRIDGE  
I-295 TWIN  
WO 05.25  
IMPACT NONE

PRIVATE AT GRADE  
WO 05.50  
PRIVATE  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 05.80  
CHERRY LANE  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
WO 06.01  
PRIVATE - LUKINS  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 06.15  
DANIEL LANE  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 06.30  
BUTTONWOOD AVENUE  
IMPACT -SEE NOTE 1

CULVERT  
WO 06.50  
STREAM  
IMPACT -REPLACE CULVERT

PUBLIC GRADE X-ING  
WO 07.10  
NEW CASTLE AVENUE  
IMPACT - SEE NOTE 1

UNDERGRADE BRIDGE  
HOLCOMB ROAD  
WO 06.41  
IMPACT REPLACE BRIDGE

**NOTE 1. NEW SURFACE & WARNING DEVICES.**

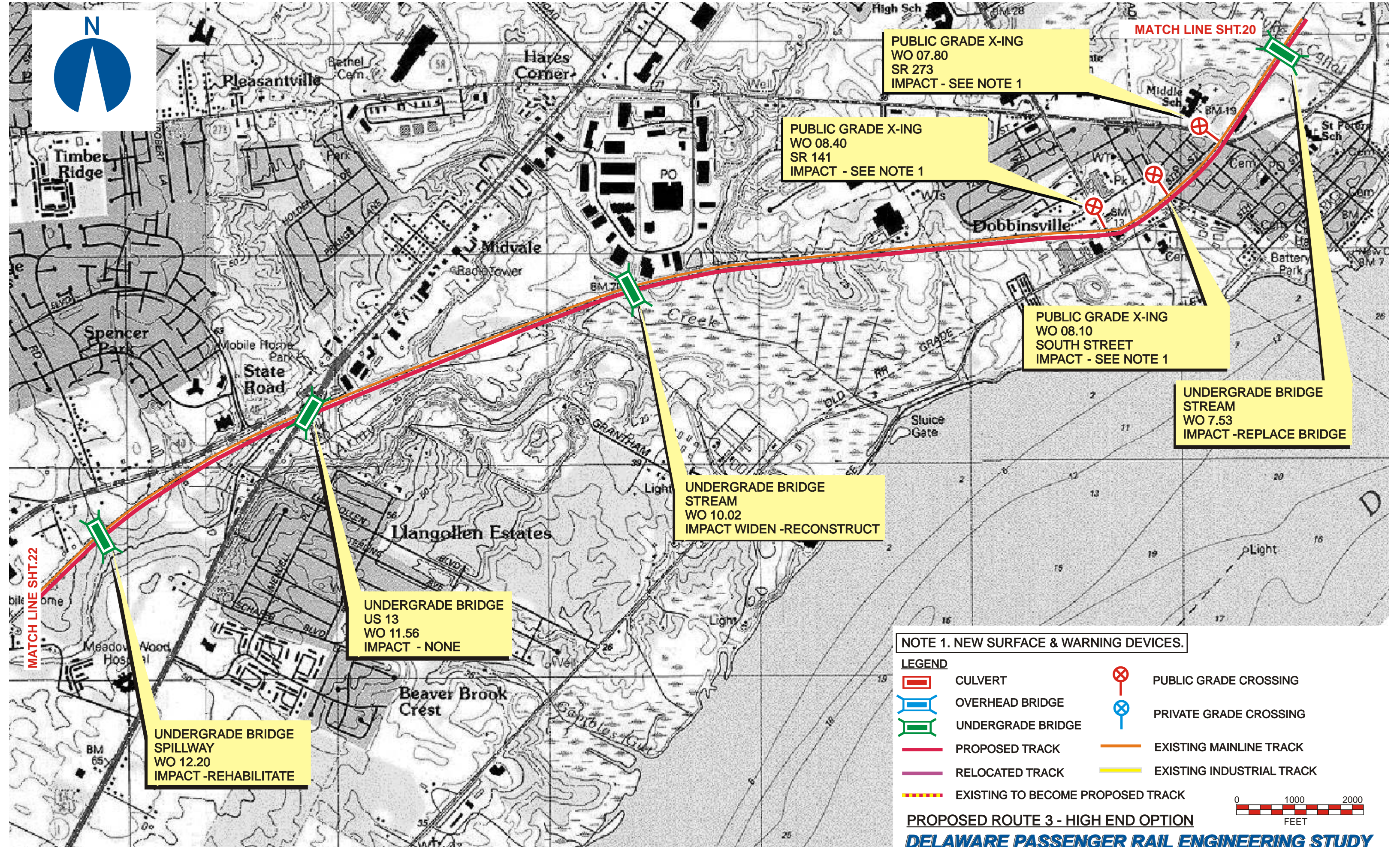
LEGEND			
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		

**PROPOSED ROUTE 3 - HIGH END OPTION**

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







PUBLIC GRADE X-ING  
WO 07.80  
SR 273  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 08.40  
SR 141  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 08.10  
SOUTH STREET  
IMPACT - SEE NOTE 1

UNDERGRADE BRIDGE  
STREAM  
WO 7.53  
IMPACT -REPLACE BRIDGE

UNDERGRADE BRIDGE  
STREAM  
WO 10.02  
IMPACT WIDEN -RECONSTRUCT

UNDERGRADE BRIDGE  
US 13  
WO 11.56  
IMPACT - NONE

UNDERGRADE BRIDGE  
SPILLWAY  
WO 12.20  
IMPACT -REHABILITATE

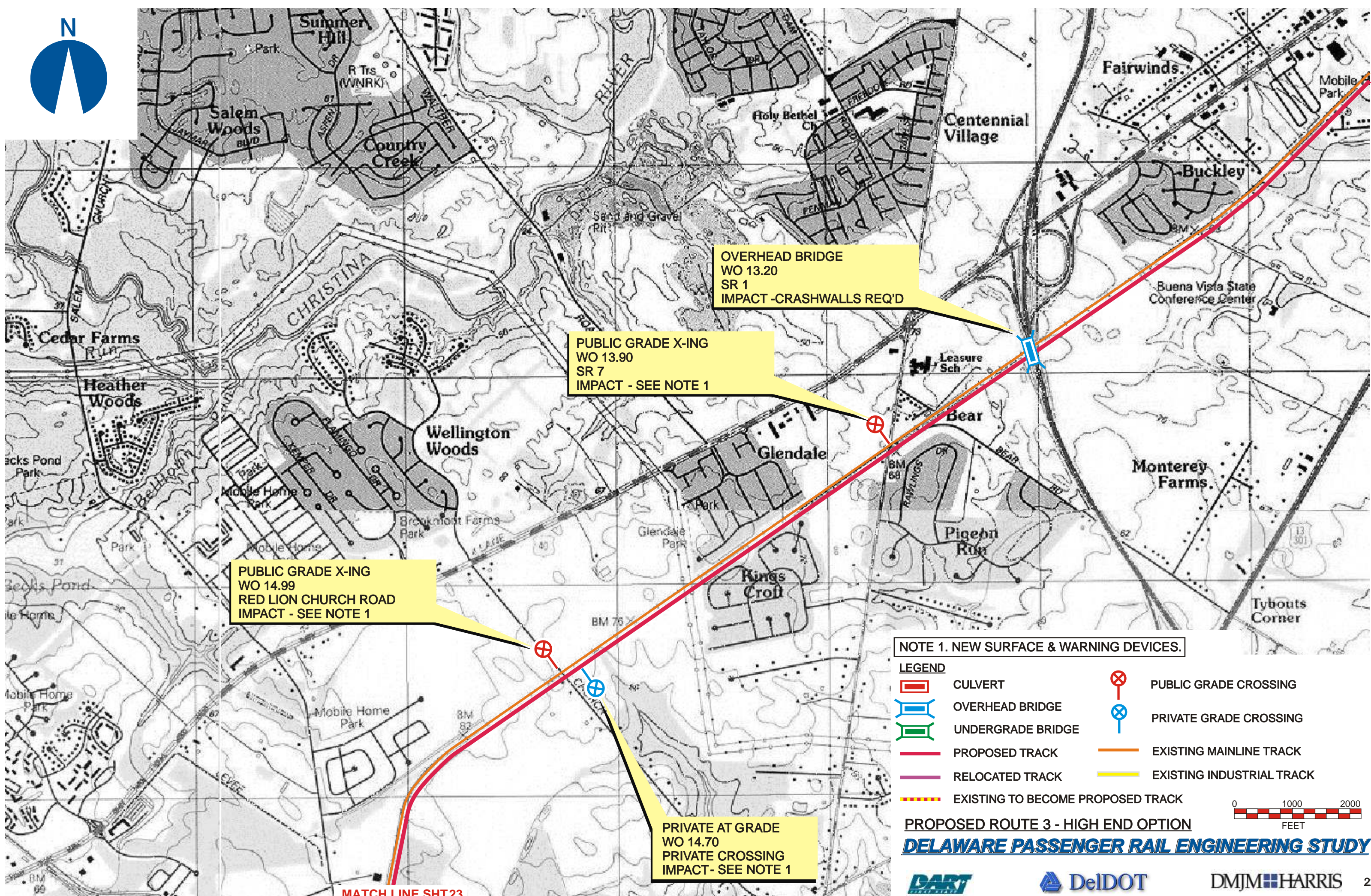
**NOTE 1. NEW SURFACE & WARNING DEVICES.**

LEGEND			
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		

PROPOSED ROUTE 3 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





OVERHEAD BRIDGE  
WO 13.20  
SR 1  
IMPACT - CRASHWALLS REQ'D

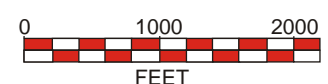
PUBLIC GRADE X-ING  
WO 13.90  
SR 7  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 14.99  
RED LION CHURCH ROAD  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
WO 14.70  
PRIVATE CROSSING  
IMPACT - SEE NOTE 1

NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND			
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		



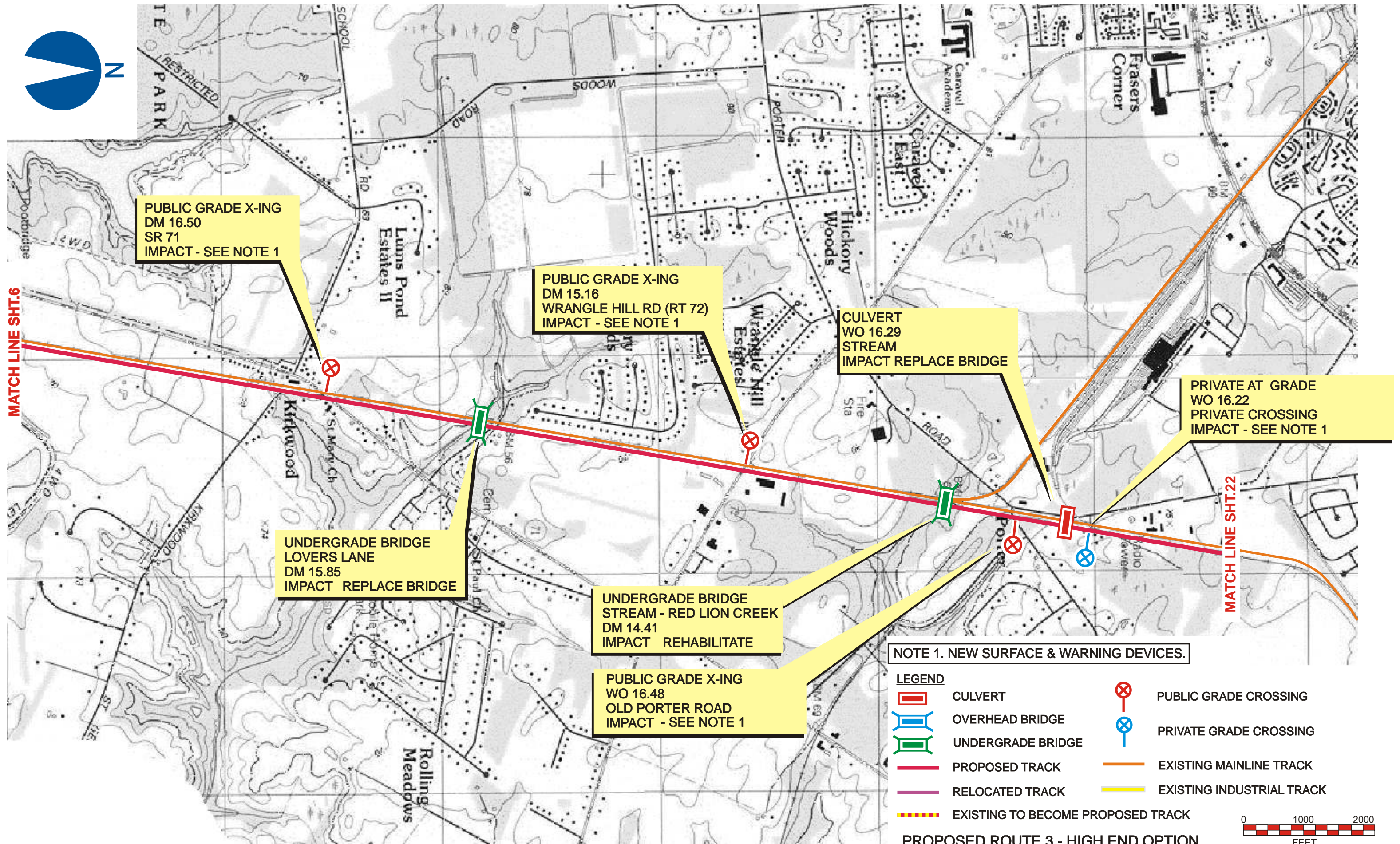
PROPOSED ROUTE 3 - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**

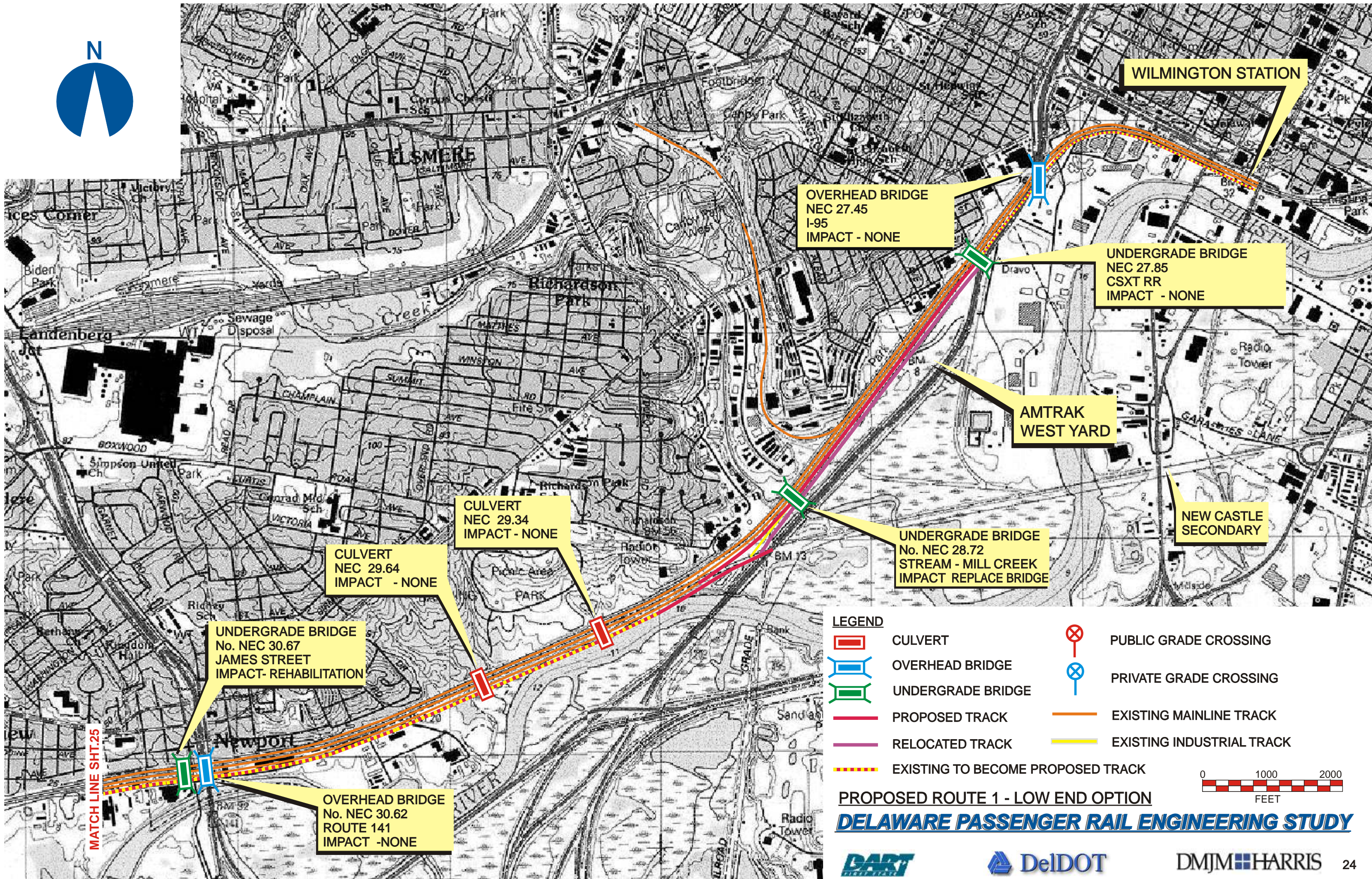
MATCH LINE SHT.21

MATCH LINE SHT.23







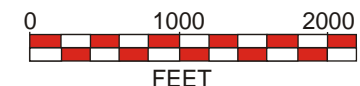


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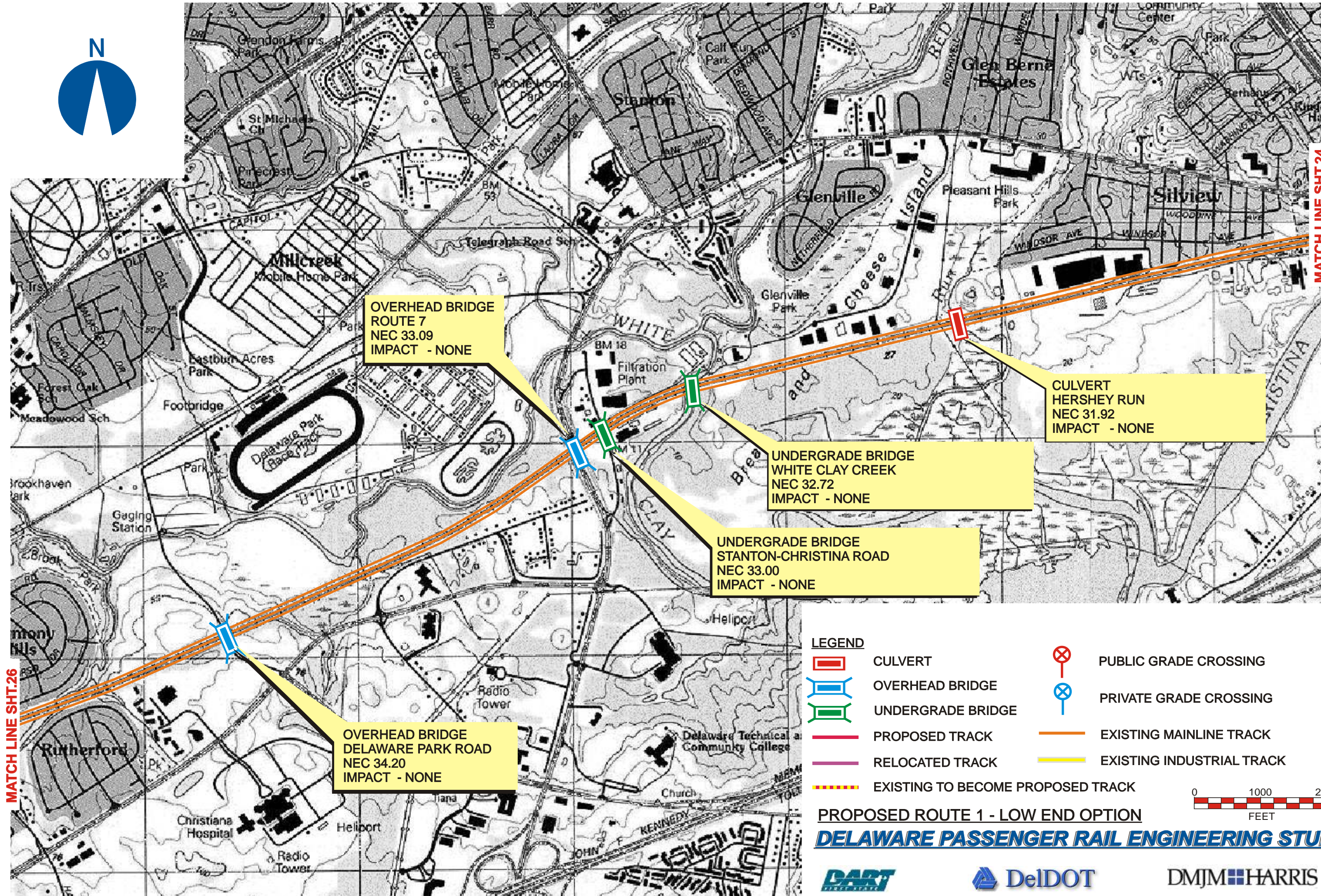
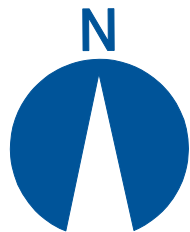
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|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

**PROPOSED ROUTE 1 - LOW END OPTION**

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







**LEGEND**

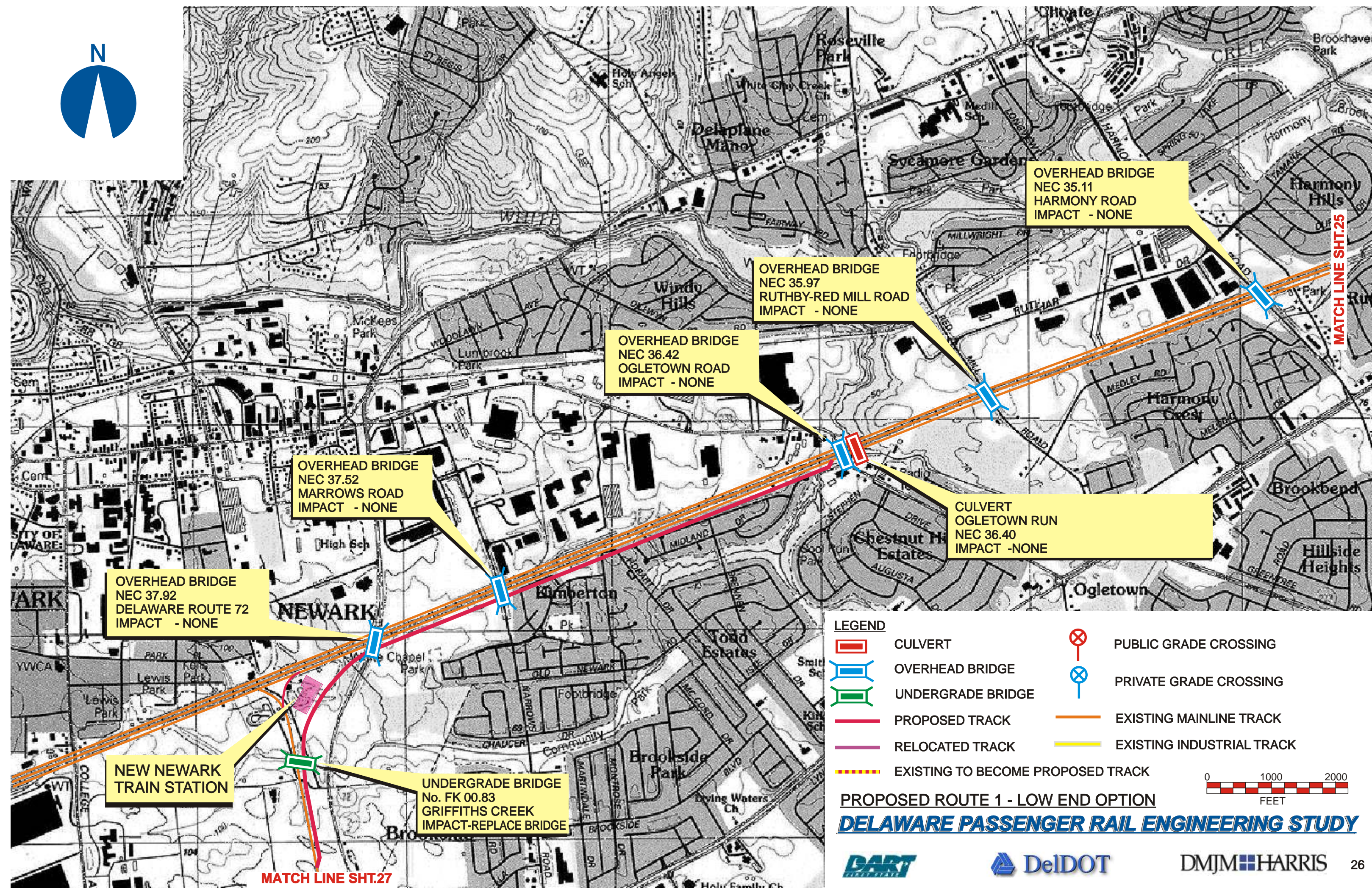
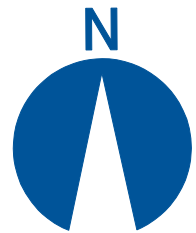
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|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 1 - LOW END OPTION

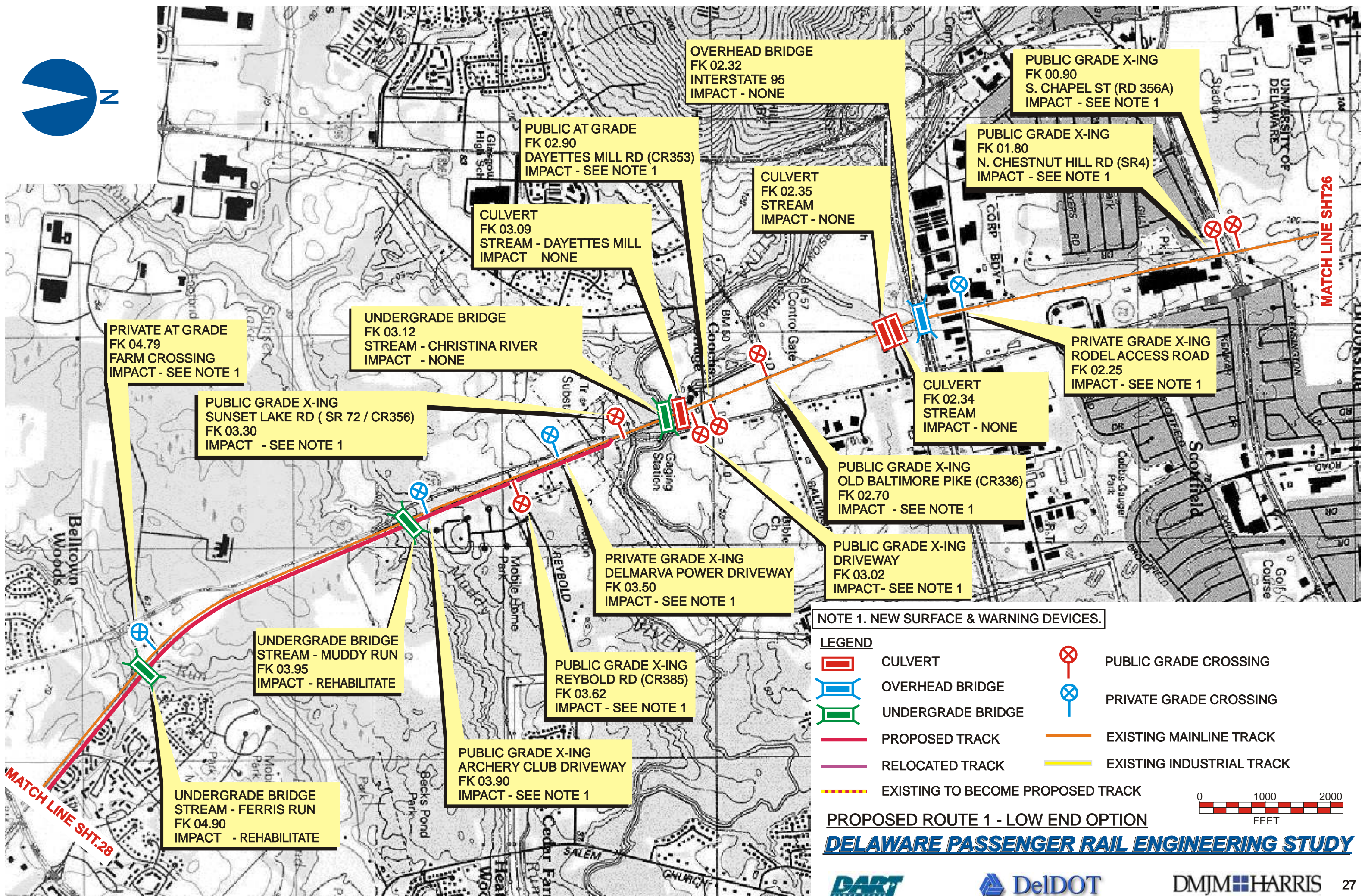
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**











OVERHEAD BRIDGE  
FK 02.32  
INTERSTATE 95  
IMPACT - NONE

PUBLIC GRADE X-ING  
FK 00.90  
S. CHAPEL ST (RD 356A)  
IMPACT - SEE NOTE 1

PUBLIC AT GRADE  
FK 02.90  
DAYETTES MILL RD (CR353)  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
FK 01.80  
N. CHESTNUT HILL RD (SR4)  
IMPACT - SEE NOTE 1

CULVERT  
FK 03.09  
STREAM - DAYETTES MILL  
IMPACT - NONE

CULVERT  
FK 02.35  
STREAM  
IMPACT - NONE

UNDERGRADE BRIDGE  
FK 03.12  
STREAM - CHRISTINA RIVER  
IMPACT - NONE

PRIVATE GRADE X-ING  
RODEL ACCESS ROAD  
FK 02.25  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
FK 04.79  
FARM CROSSING  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
SUNSET LAKE RD ( SR 72 / CR356)  
FK 03.30  
IMPACT - SEE NOTE 1

CULVERT  
FK 02.34  
STREAM  
IMPACT - NONE

PUBLIC GRADE X-ING  
OLD BALTIMORE PIKE (CR336)  
FK 02.70  
IMPACT - SEE NOTE 1

PRIVATE GRADE X-ING  
DELMARVA POWER DRIVEWAY  
FK 03.50  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
DRIVEWAY  
FK 03.02  
IMPACT - SEE NOTE 1

UNDERGRADE BRIDGE  
STREAM - MUDDY RUN  
FK 03.95  
IMPACT - REHABILITATE

PUBLIC GRADE X-ING  
REYBOLD RD (CR385)  
FK 03.62  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
ARCHERY CLUB DRIVEWAY  
FK 03.90  
IMPACT - SEE NOTE 1

UNDERGRADE BRIDGE  
STREAM - FERRIS RUN  
FK 04.90  
IMPACT - REHABILITATE

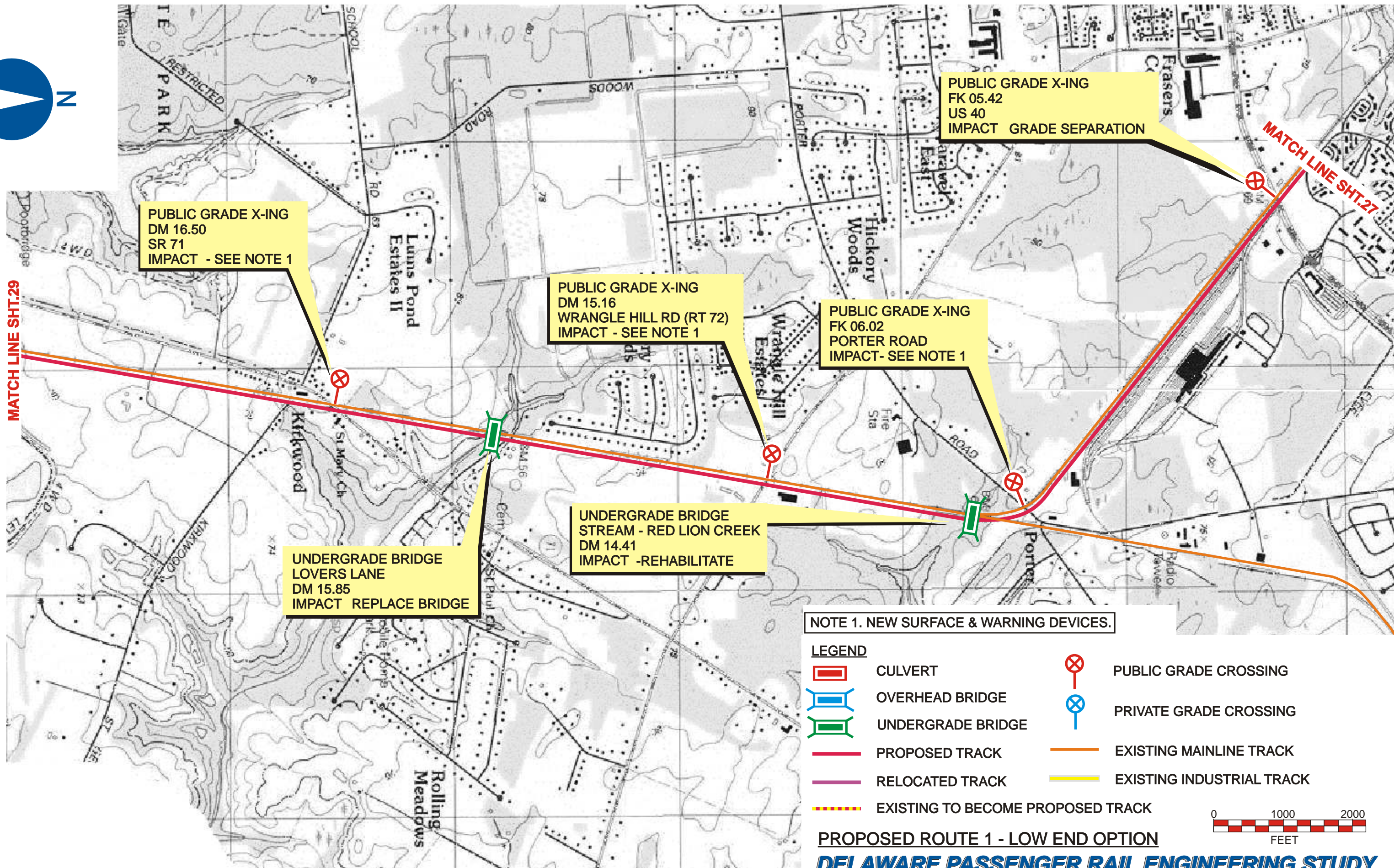
NOTE 1. NEW SURFACE & WARNING DEVICES.

- LEGEND**
- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

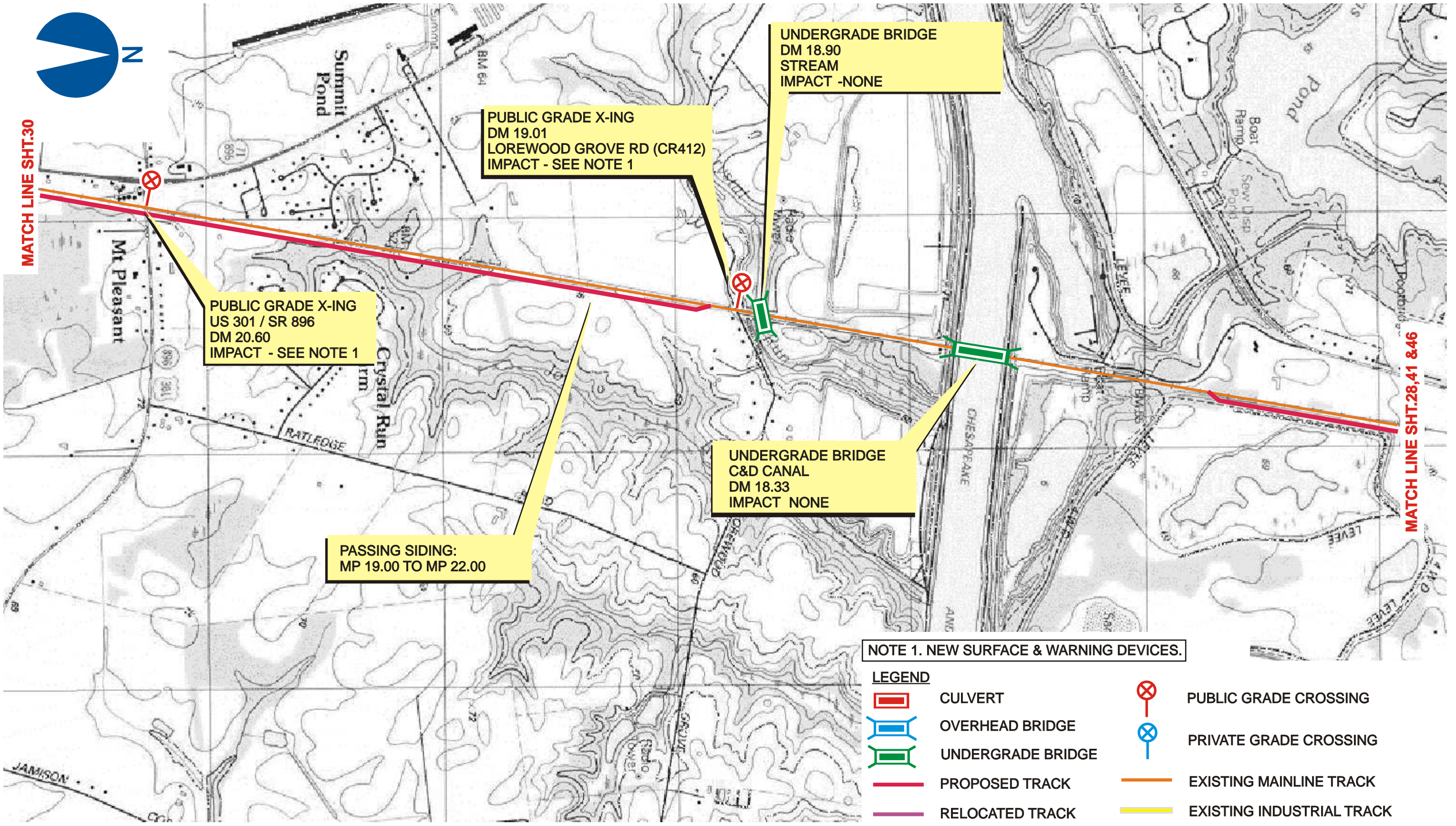
PROPOSED ROUTE 1 - LOW END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





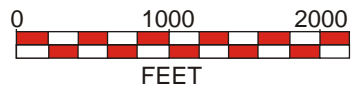




NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND

- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

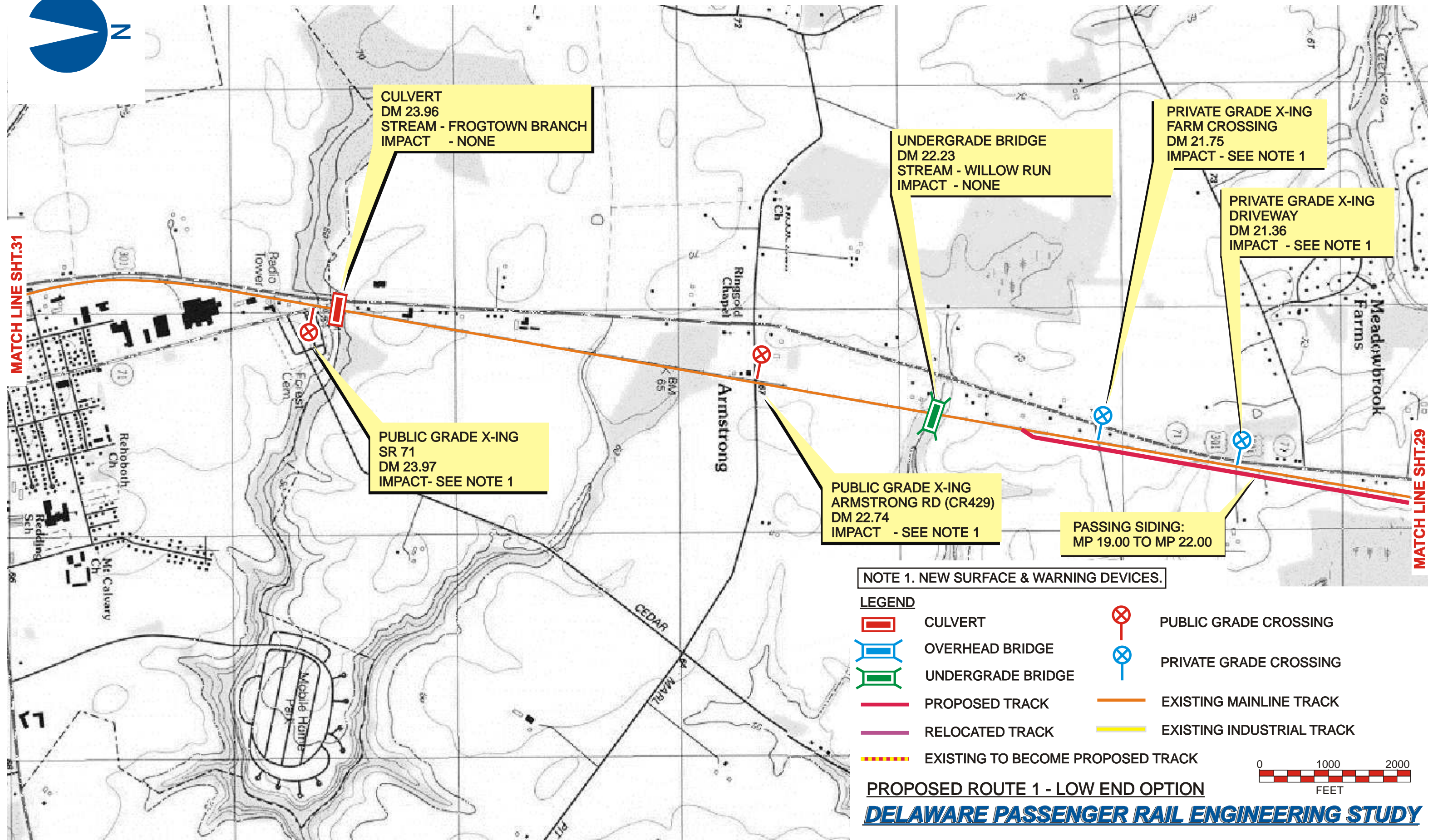


PROPOSED ROUTE 1 - LOW END OPTION

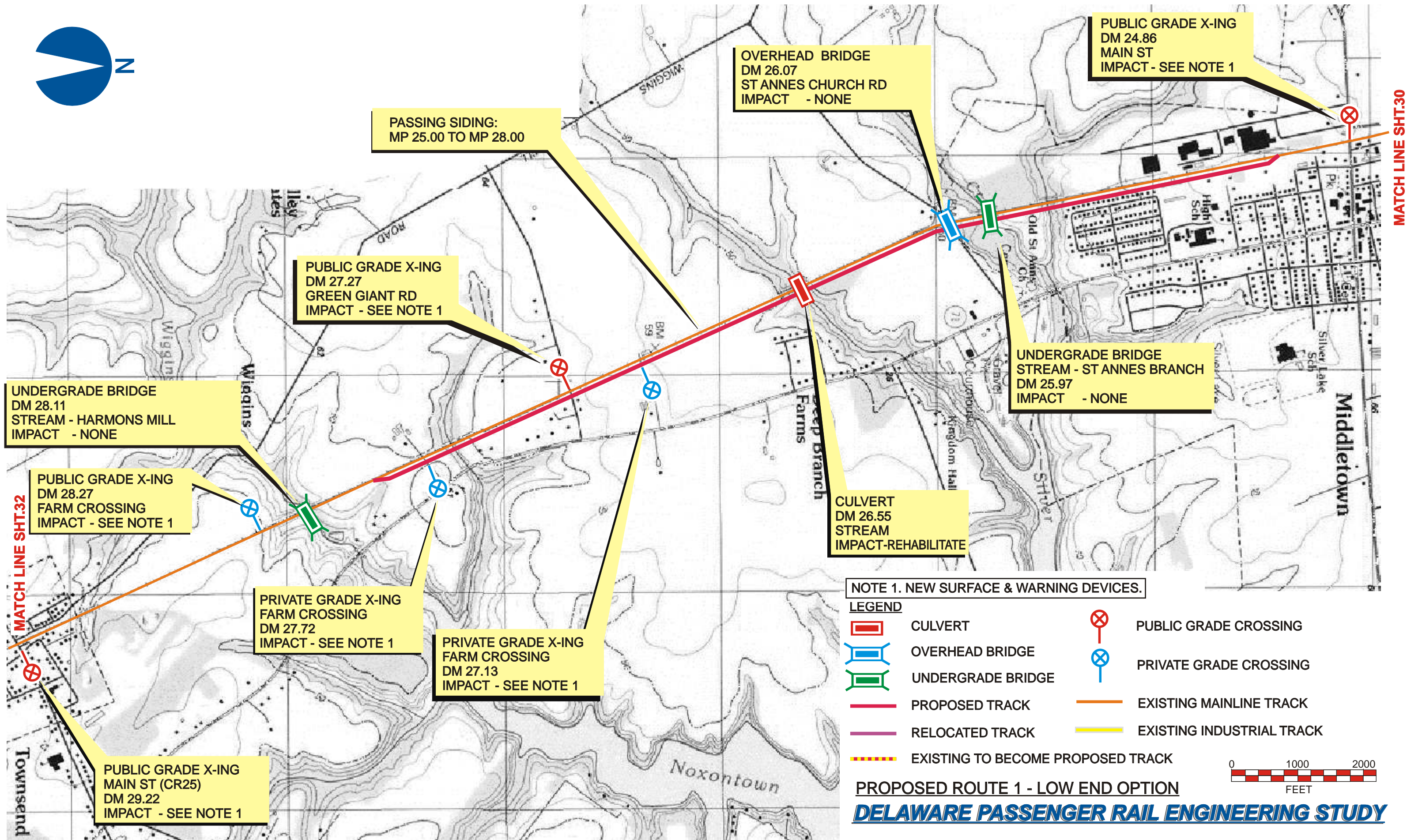
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







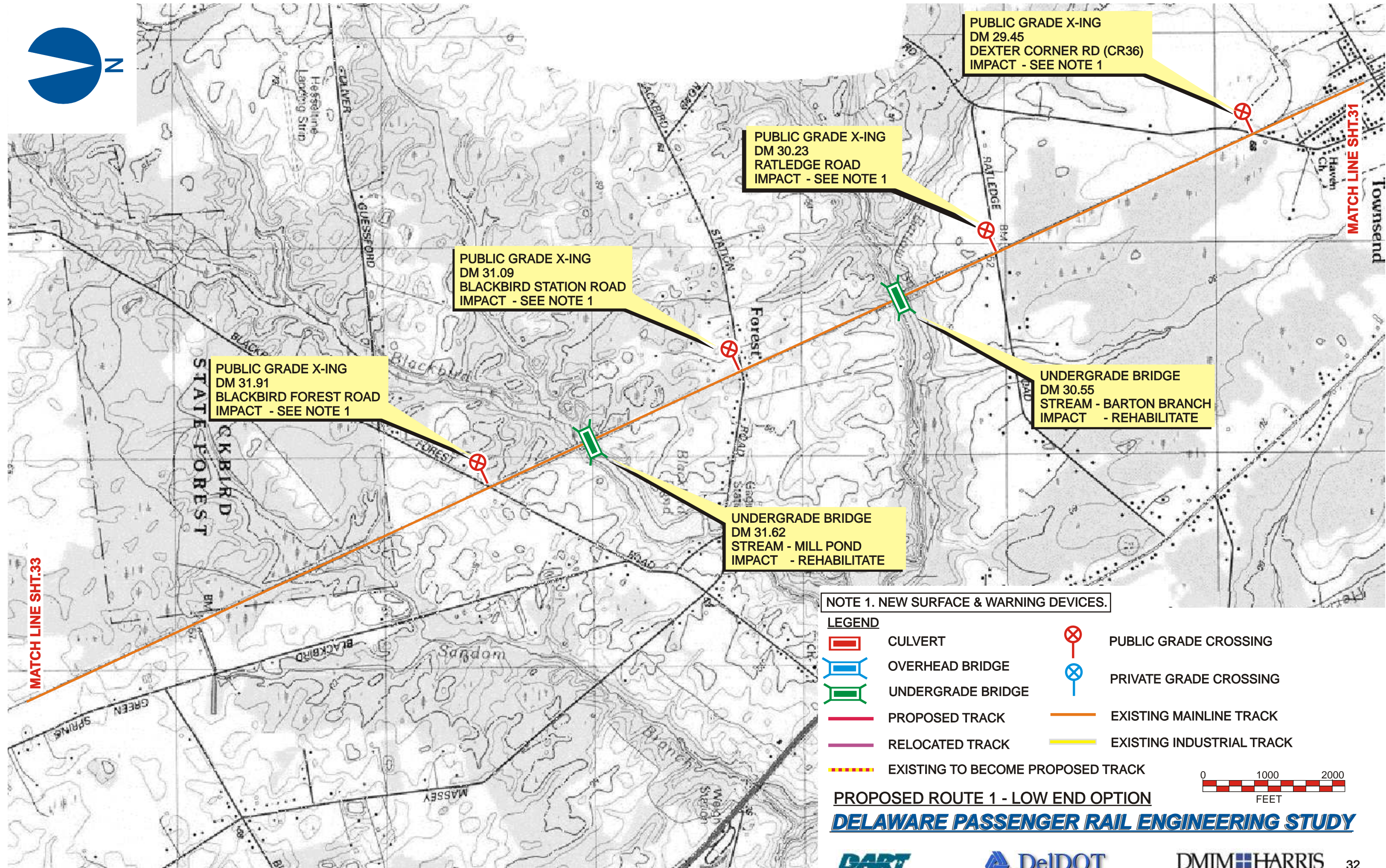




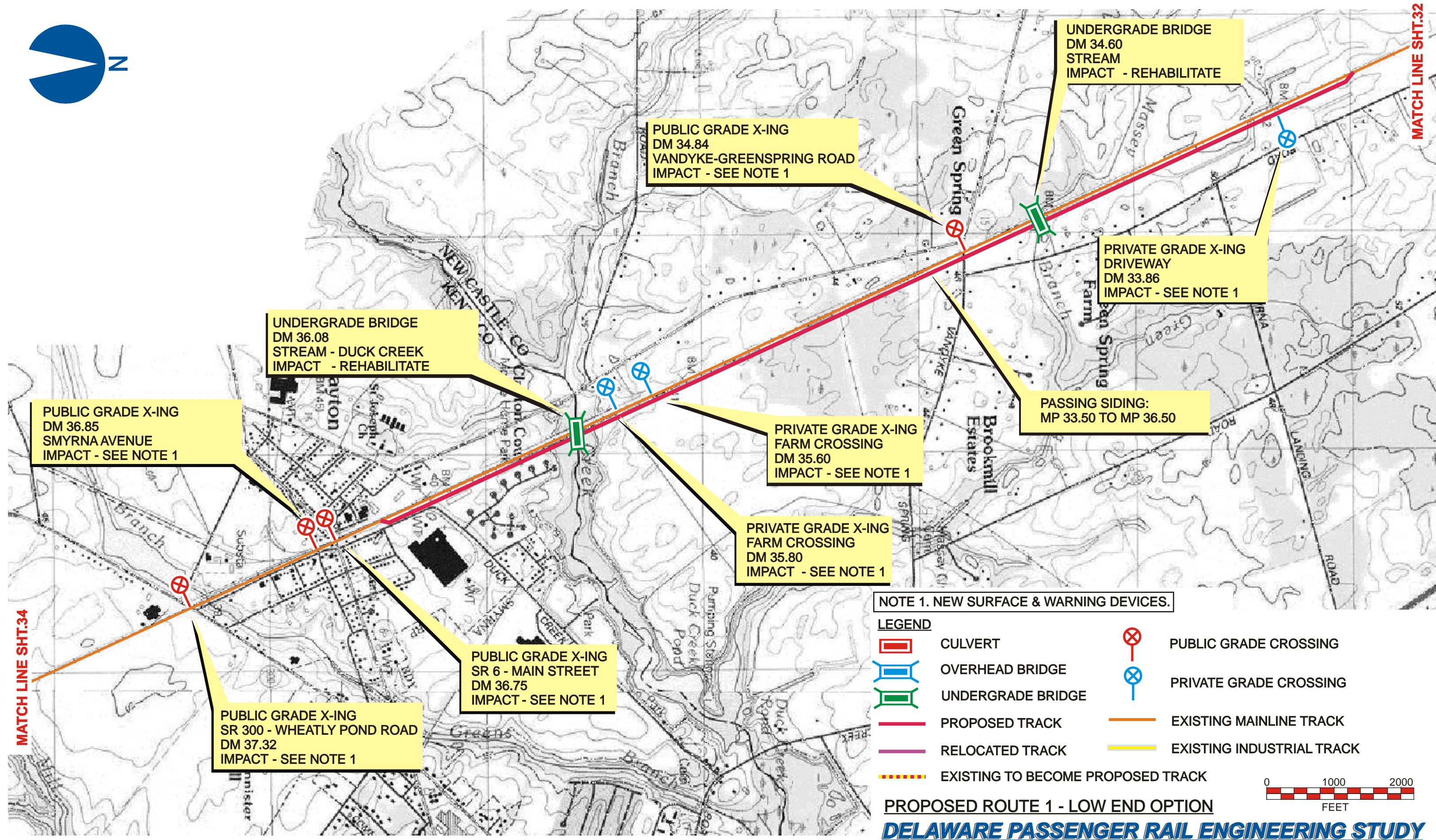
MATCH LINE SHT.30

MATCH LINE SHT.32

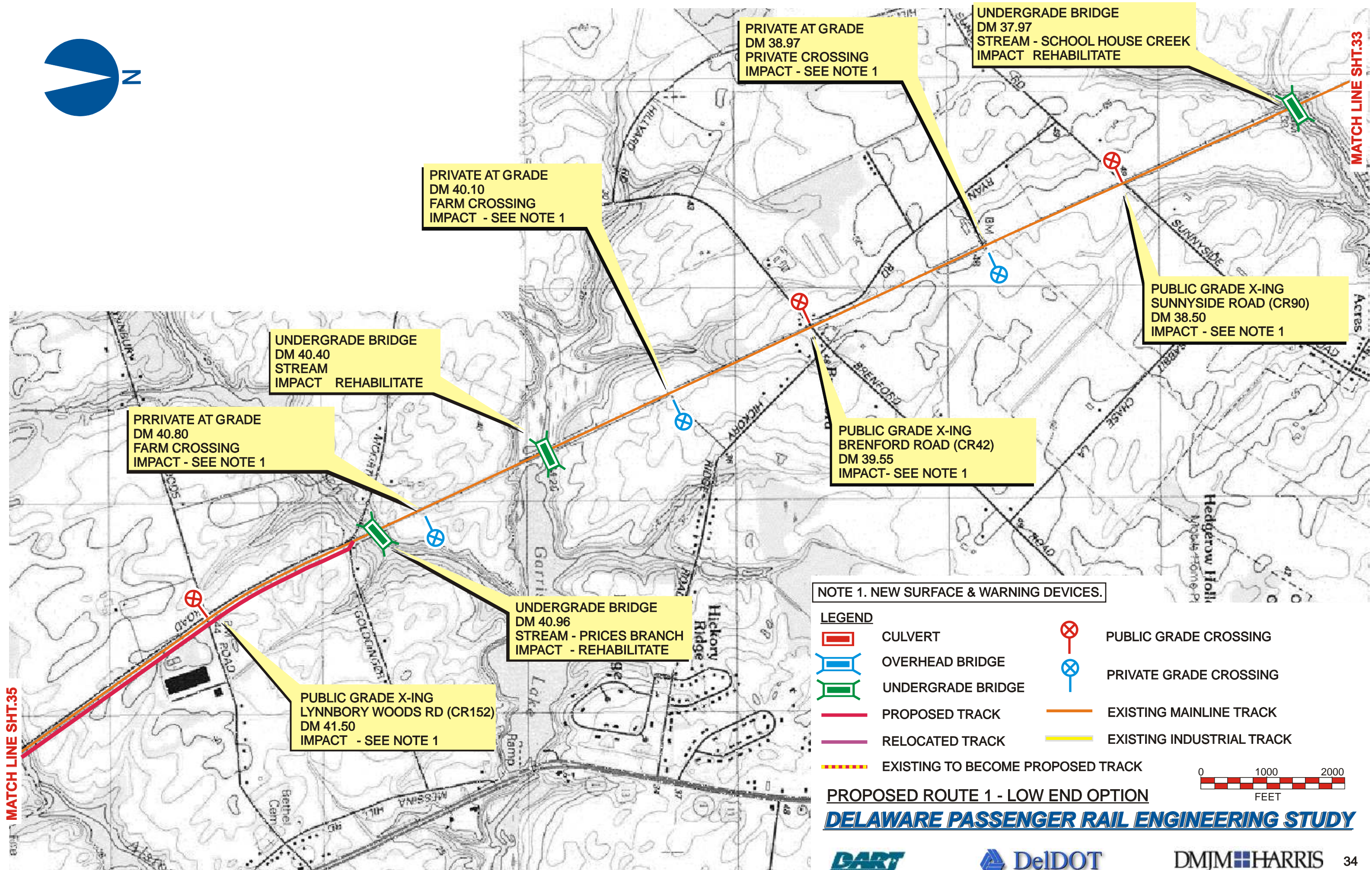




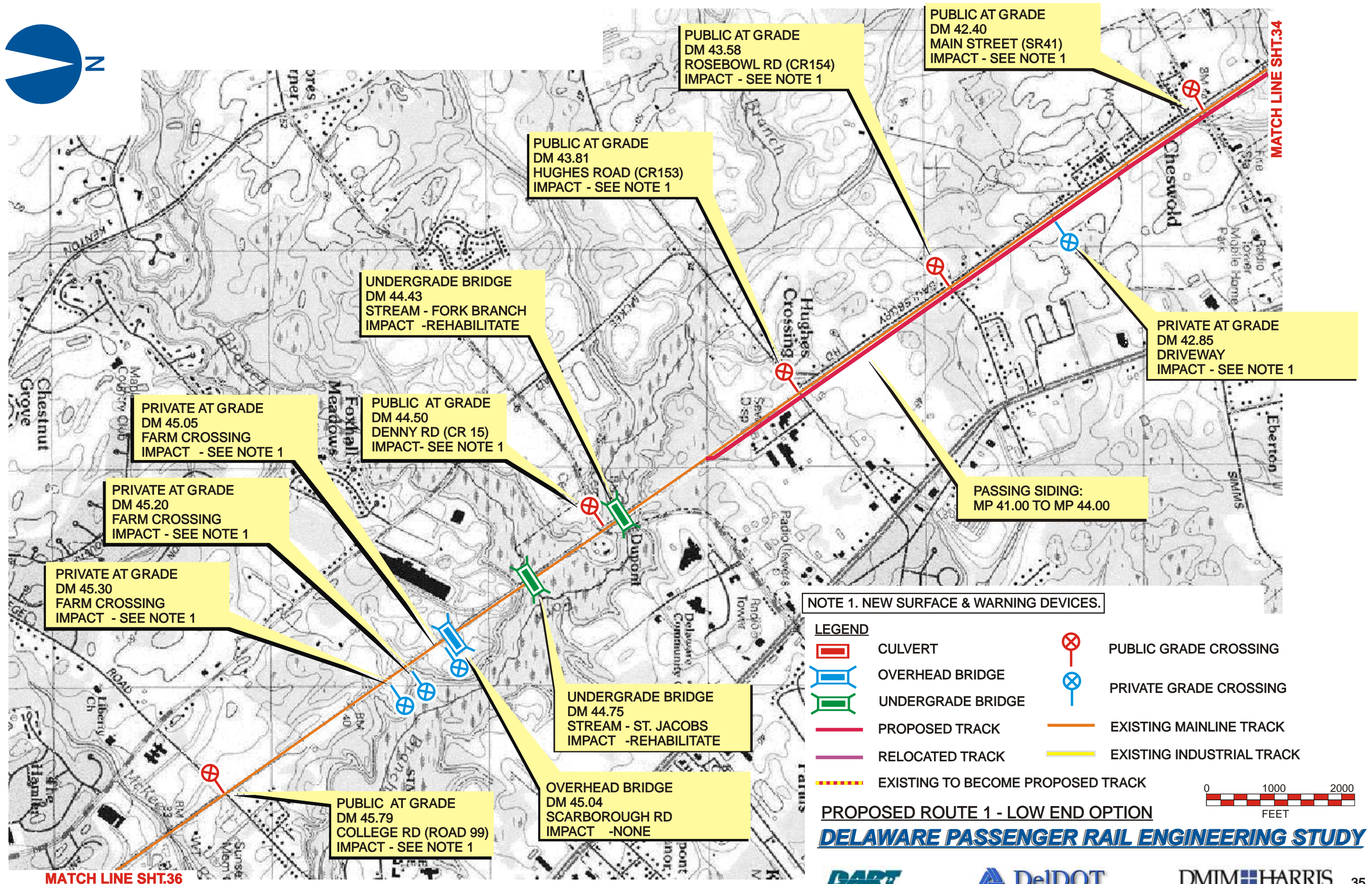




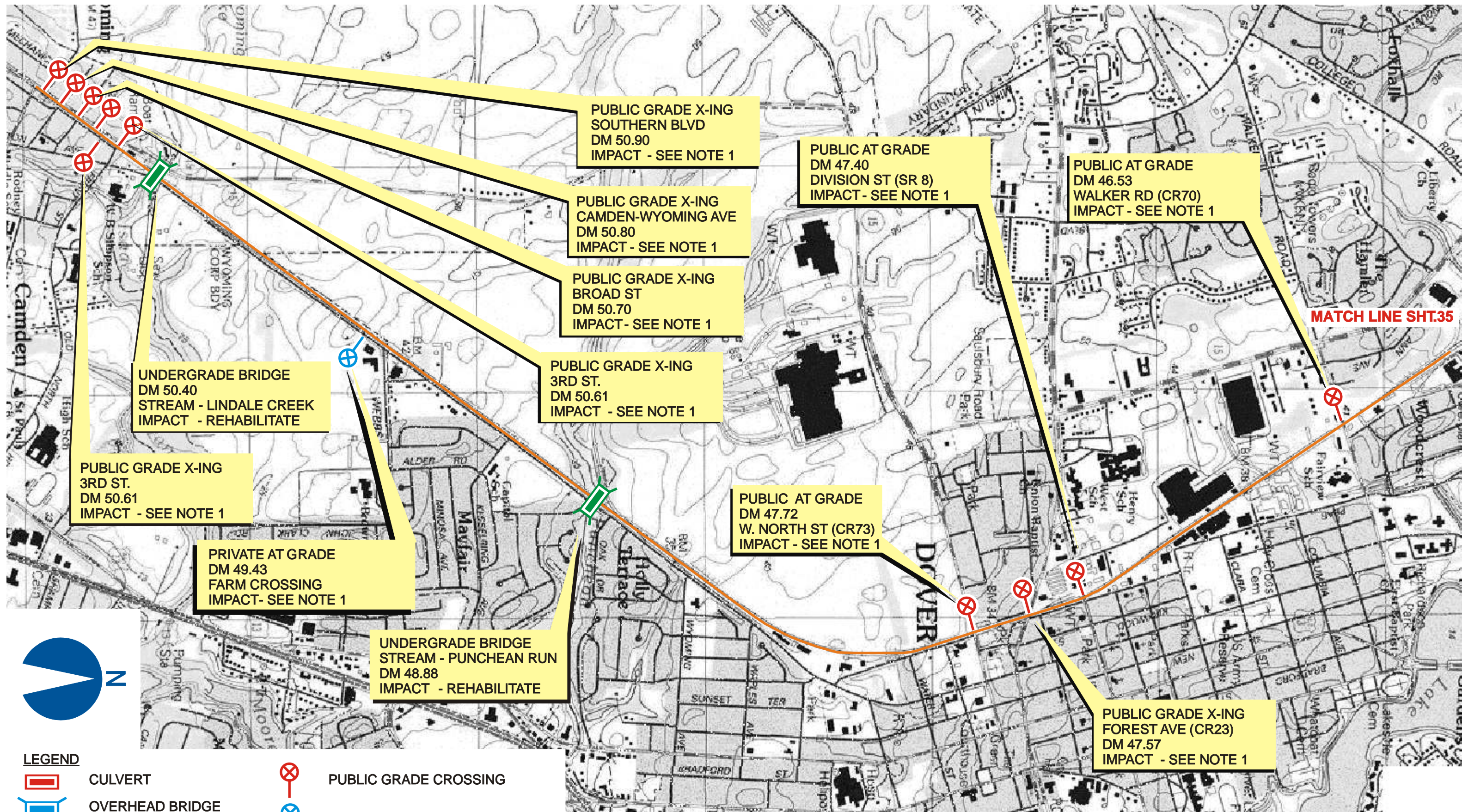








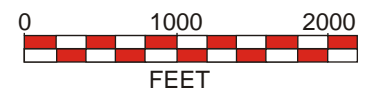




#### LEGEND

- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

NOTE 1. NEW SURFACE & WARNING DEVICES.

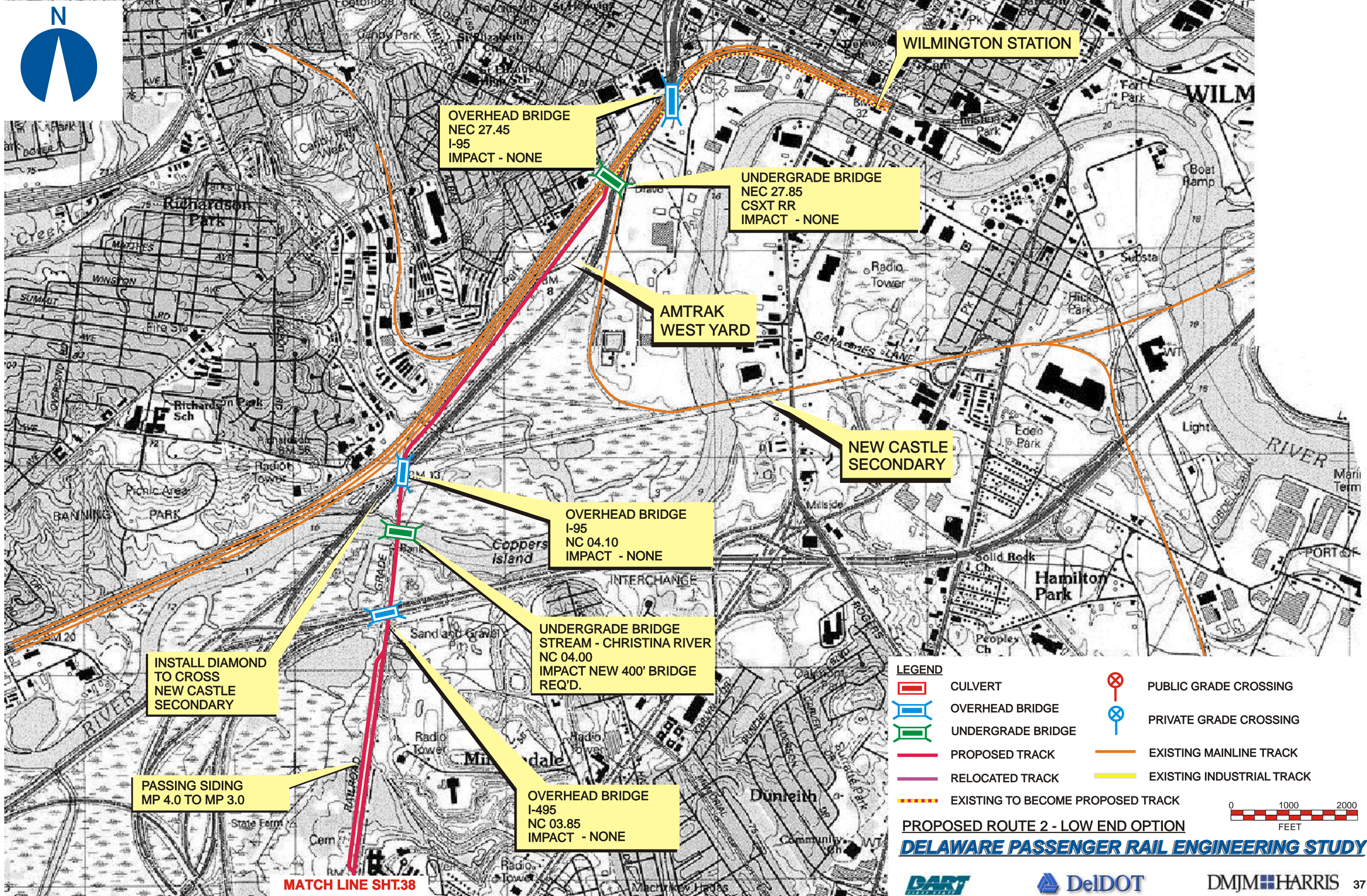
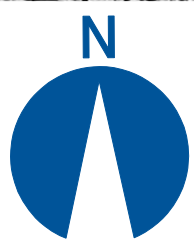


PROPOSED ROUTE 1 - LOW END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







OVERHEAD BRIDGE  
NEC 27.45  
I-95  
IMPACT - NONE

UNDERGRADE BRIDGE  
NEC 27.85  
CSXT RR  
IMPACT - NONE

AMTRAK  
WEST YARD

NEW CASTLE  
SECONDARY

OVERHEAD BRIDGE  
I-95  
NC 04.10  
IMPACT - NONE

UNDERGRADE BRIDGE  
STREAM - CHRISTINA RIVER  
NC 04.00  
IMPACT NEW 400' BRIDGE  
REQ'D.

INSTALL DIAMOND  
TO CROSS  
NEW CASTLE  
SECONDARY

PASSING SIDING  
MP 4.0 TO MP 3.0

OVERHEAD BRIDGE  
I-495  
NC 03.85  
IMPACT - NONE

MATCH LINE SHT.38

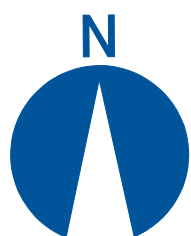
**LEGEND**

	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		
	PROPOSED TRACK		EXISTING MAINLINE TRACK
	RELOCATED TRACK		EXISTING INDUSTRIAL TRACK
	EXISTING TO BECOME PROPOSED TRACK		

0 1000 2000  
FEET

PROPOSED ROUTE 2 - LOW END OPTION  
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





MATCH LINE SHT.37

OVERHEAD BRIDGE  
I-295  
NC 02.62  
IMPACT WIDEN EXIST. ABUTMENT

OVERHEAD BRIDGE  
US 13  
NC 02.40  
IMPACT- CRASHWALLS  
REQ'D

PRIVATE AT GRADE  
NC 02.38  
ACCESS ROAD TO BASEBALL FIELD  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
BOULDEN ROAD  
NC 02.08  
IMPACT - SEE NOTE 1

CULVERT  
STREAM - BROAD DYKE CANAL  
NC 00.72  
IMPACT NONE

NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND

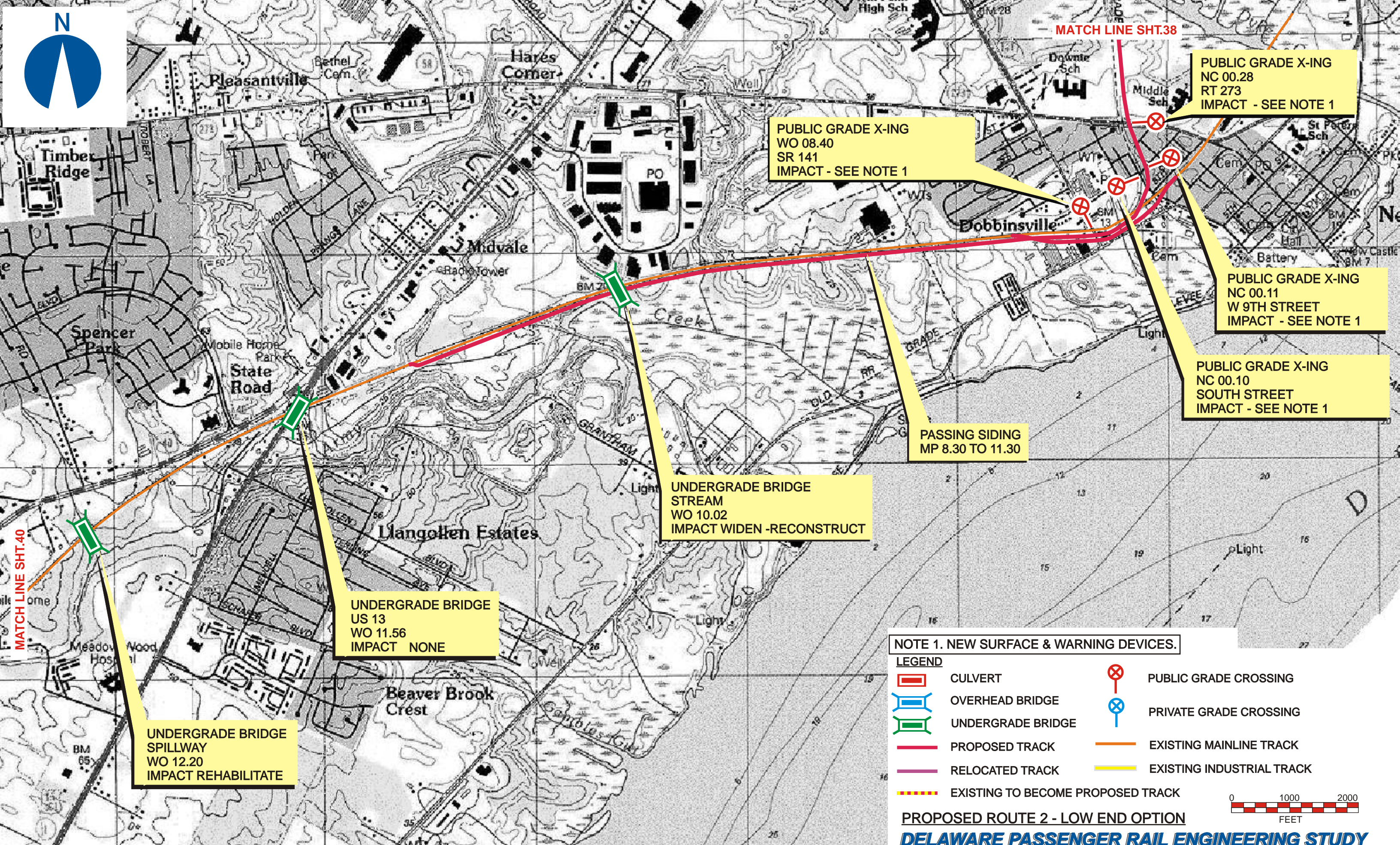
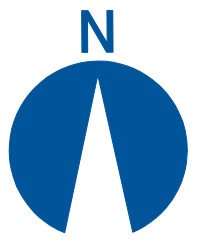
- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 2 - LOW END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







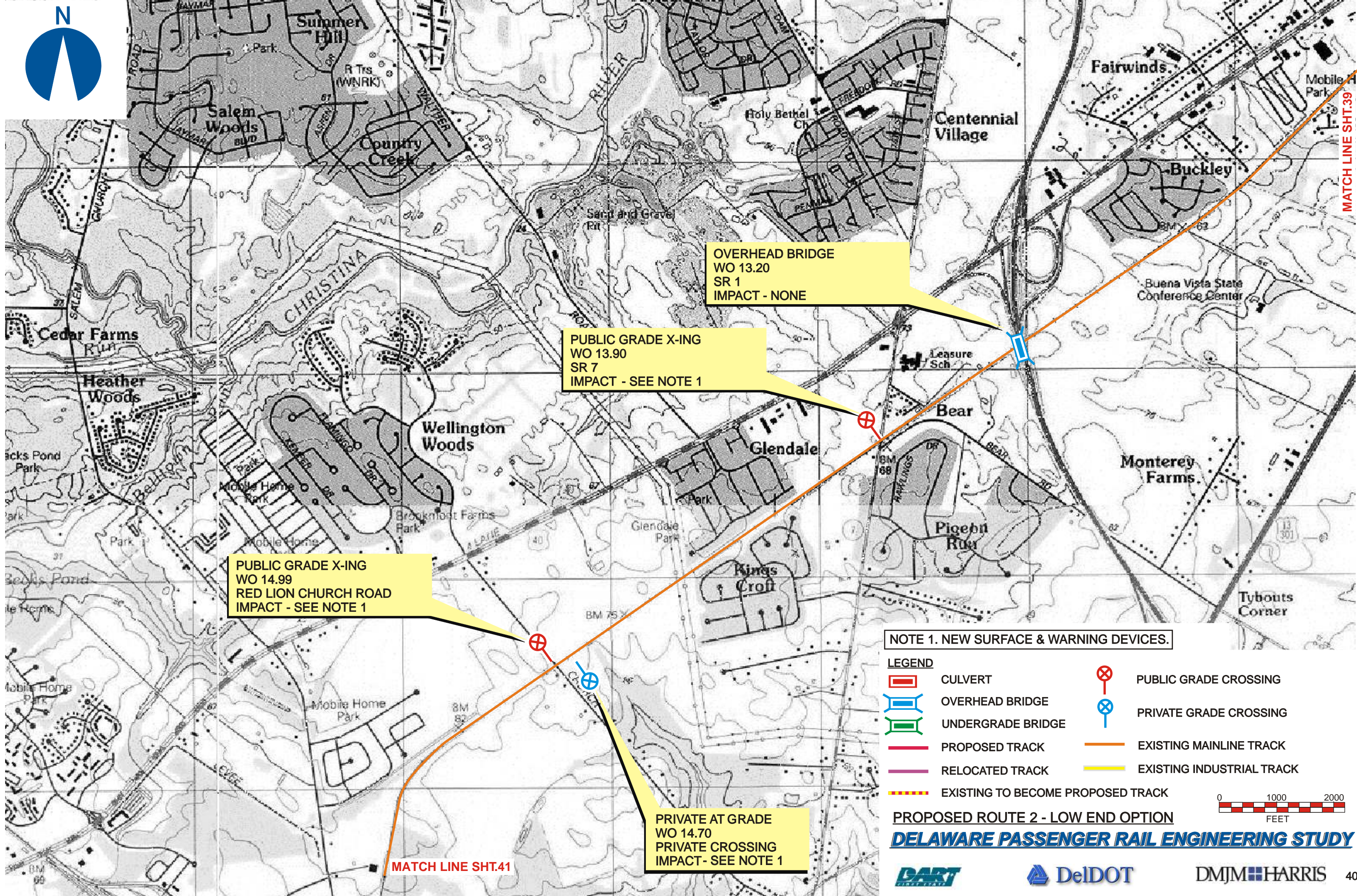
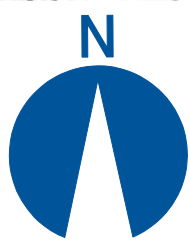
**NOTE 1. NEW SURFACE & WARNING DEVICES.**

LEGEND			
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		

**PROPOSED ROUTE 2 - LOW END OPTION**

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





OVERHEAD BRIDGE  
WO 13.20  
SR 1  
IMPACT - NONE

PUBLIC GRADE X-ING  
WO 13.90  
SR 7  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 14.99  
RED LION CHURCH ROAD  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
WO 14.70  
PRIVATE CROSSING  
IMPACT - SEE NOTE 1

NOTE 1. NEW SURFACE & WARNING DEVICES.

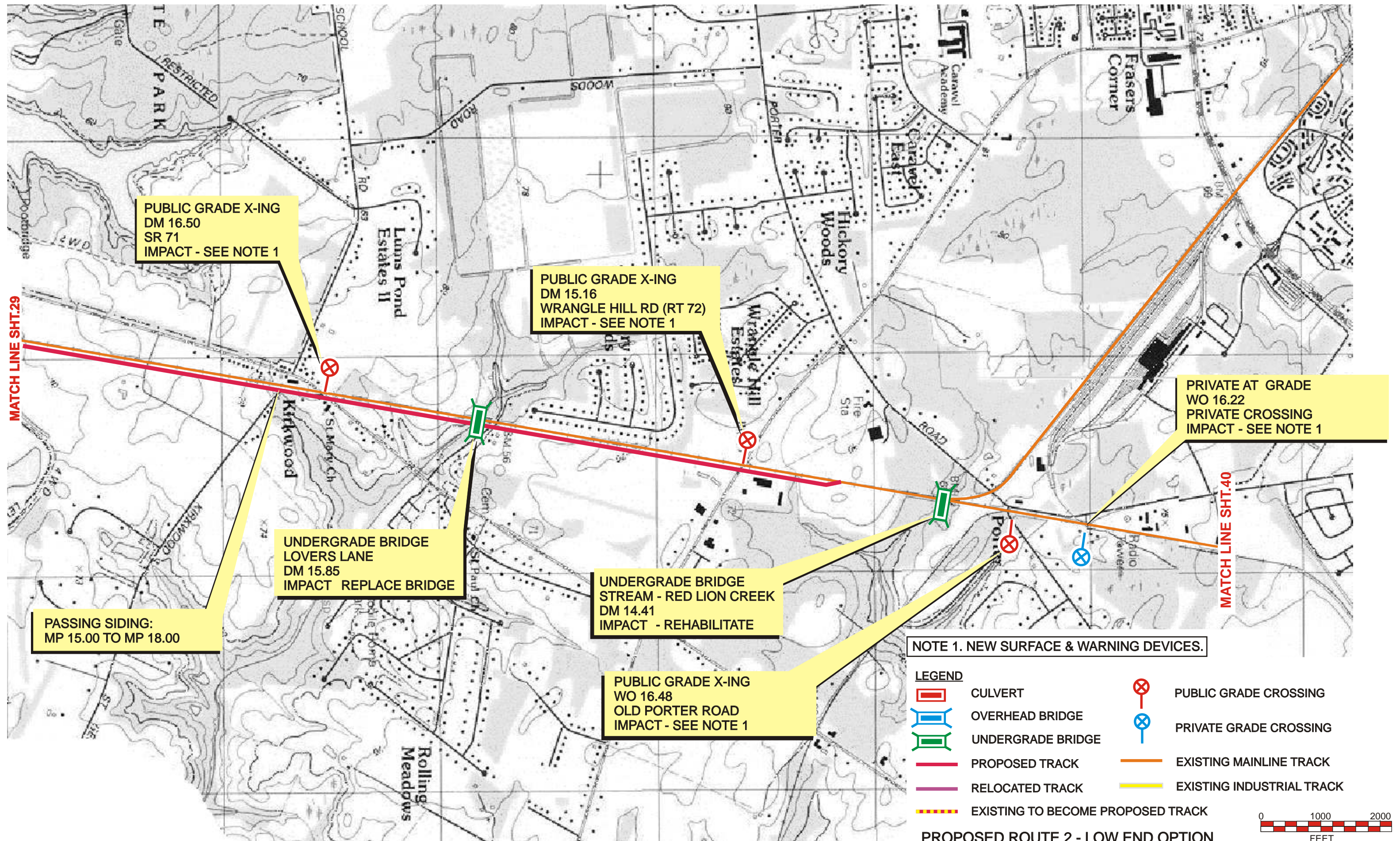
- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 2 - LOW END OPTION

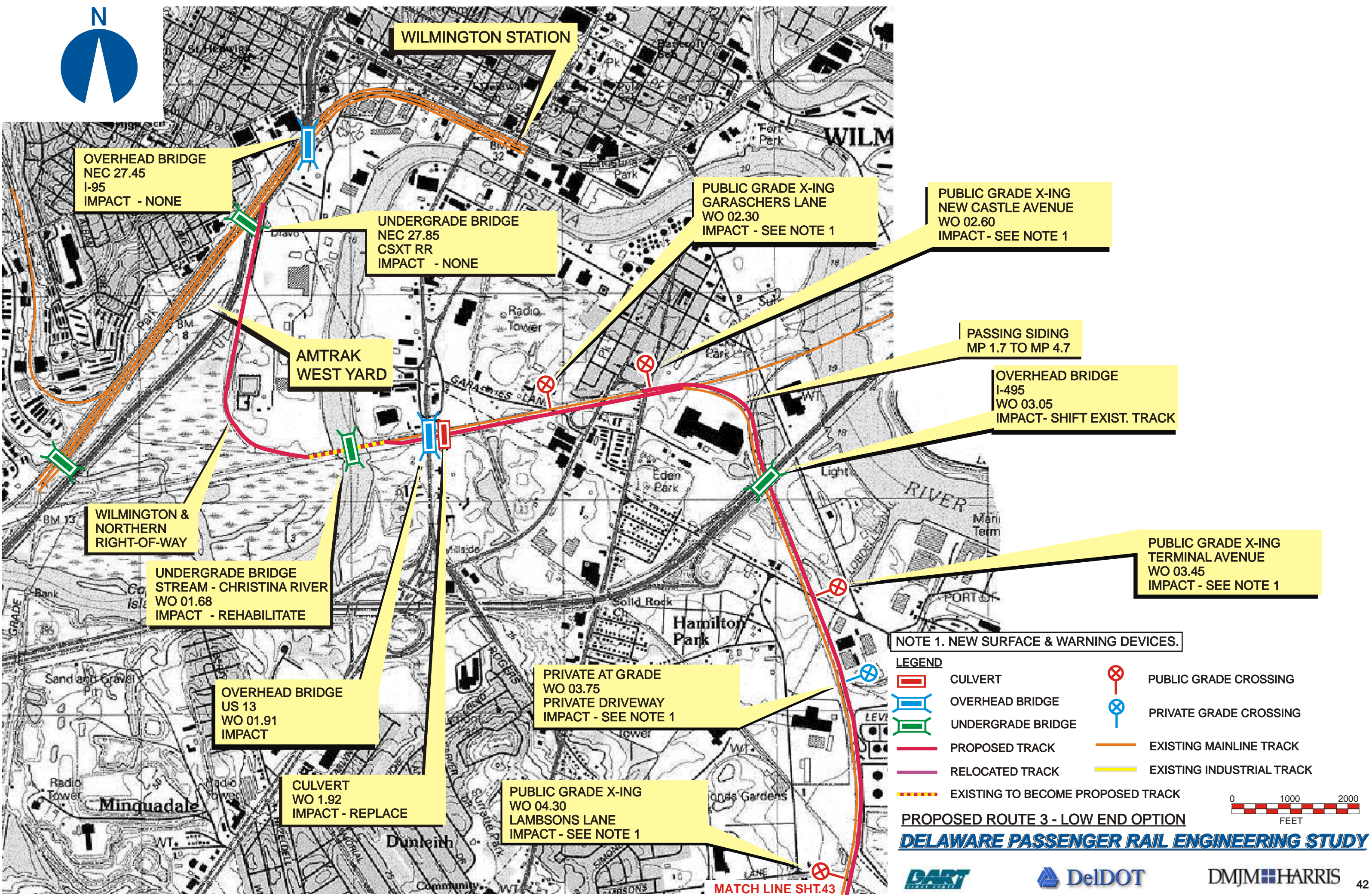
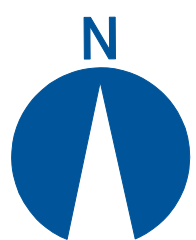
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**



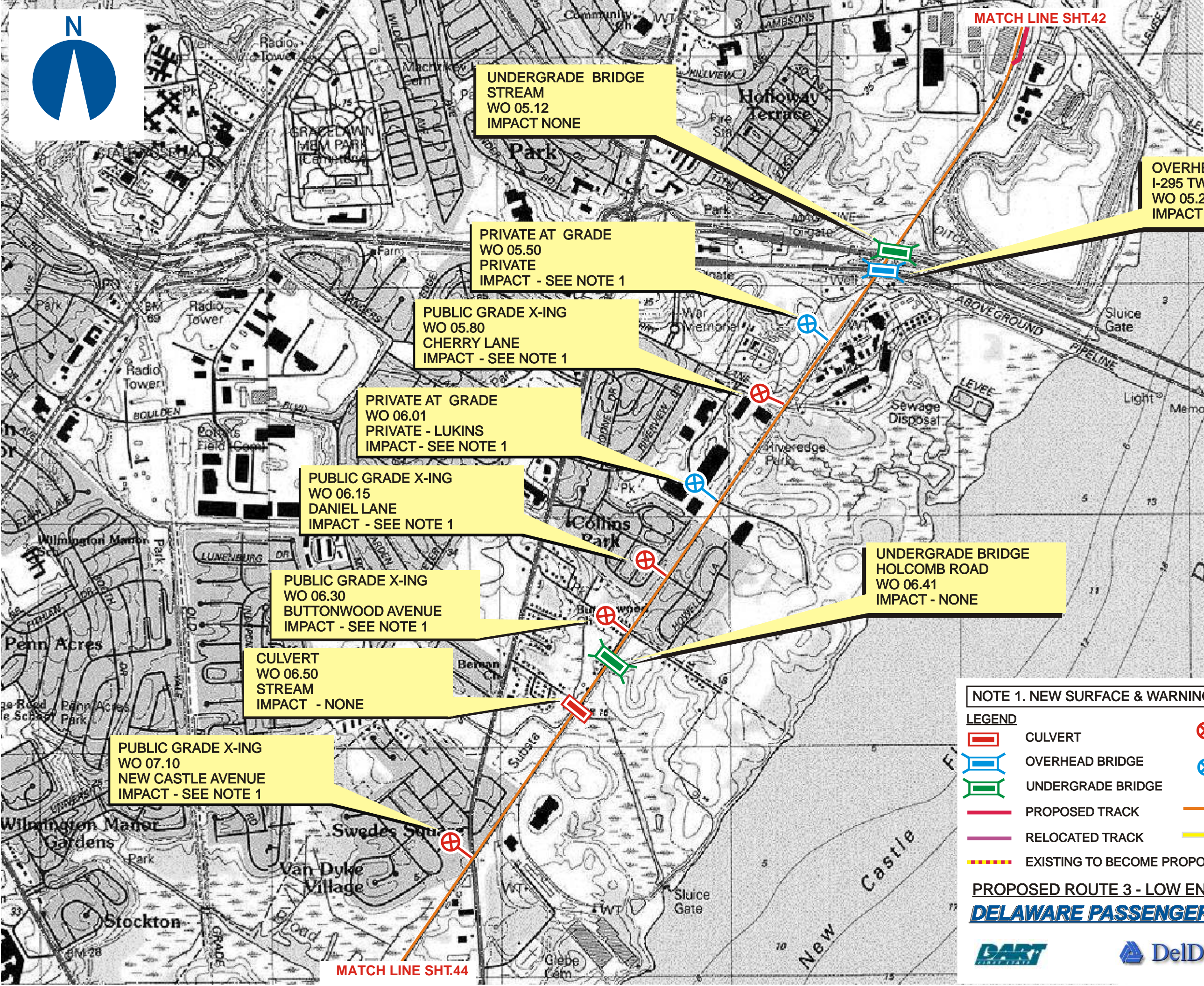
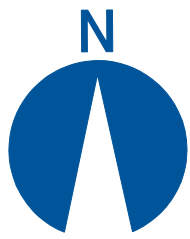












UNDERGRADE BRIDGE  
STREAM  
WO 05.12  
IMPACT NONE

OVERHEAD BRIDGE  
I-295 TWIN  
WO 05.25  
IMPACT NONE

PRIVATE AT GRADE  
WO 05.50  
PRIVATE  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 05.80  
CHERRY LANE  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
WO 06.01  
PRIVATE - LUKINS  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 06.15  
DANIEL LANE  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 06.30  
BUTTONWOOD AVENUE  
IMPACT - SEE NOTE 1

CULVERT  
WO 06.50  
STREAM  
IMPACT - NONE

UNDERGRADE BRIDGE  
HOLCOMB ROAD  
WO 06.41  
IMPACT - NONE

PUBLIC GRADE X-ING  
WO 07.10  
NEW CASTLE AVENUE  
IMPACT - SEE NOTE 1

**NOTE 1. NEW SURFACE & WARNING DEVICES.**

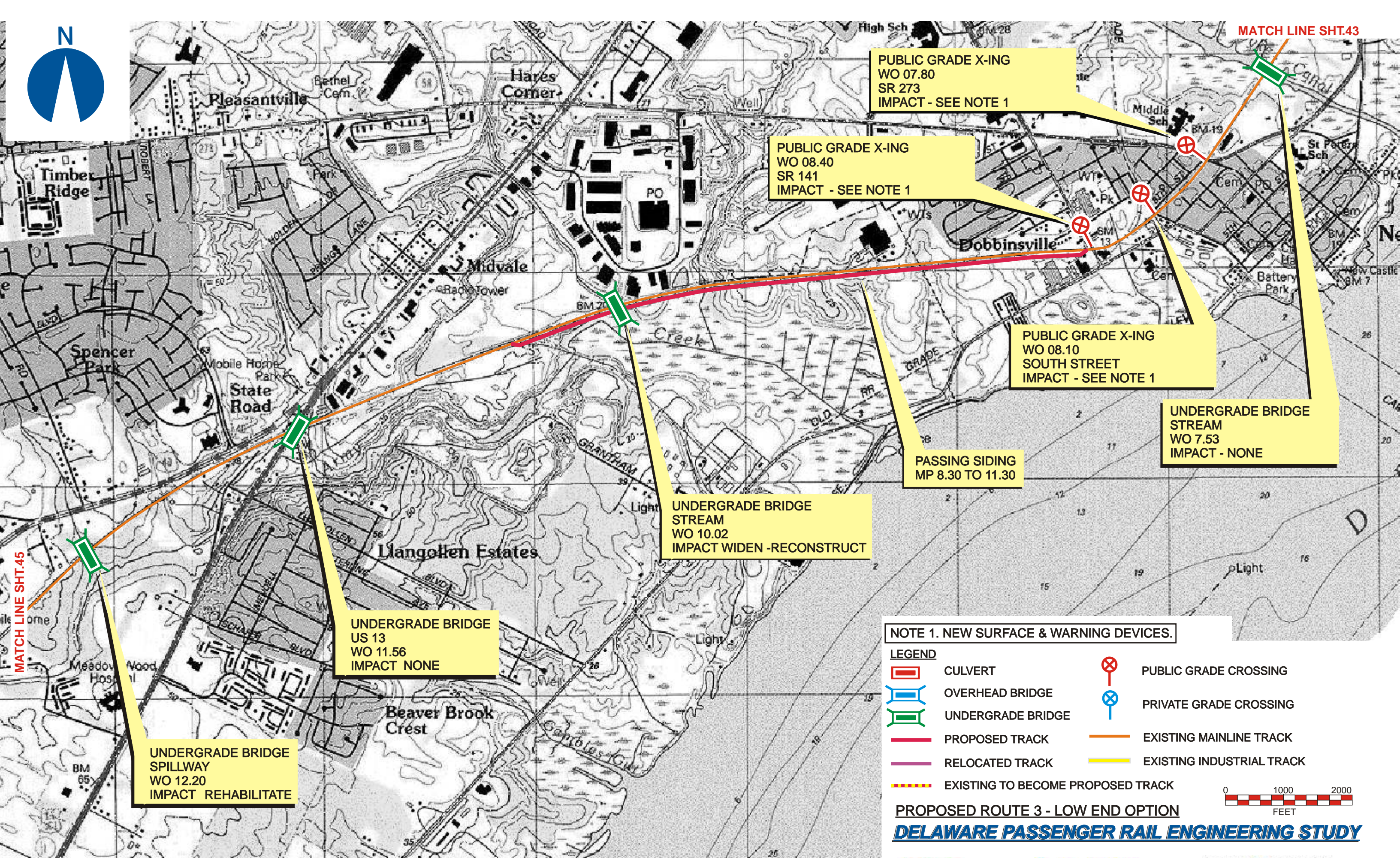
LEGEND			
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		

**PROPOSED ROUTE 3 - LOW END OPTION**

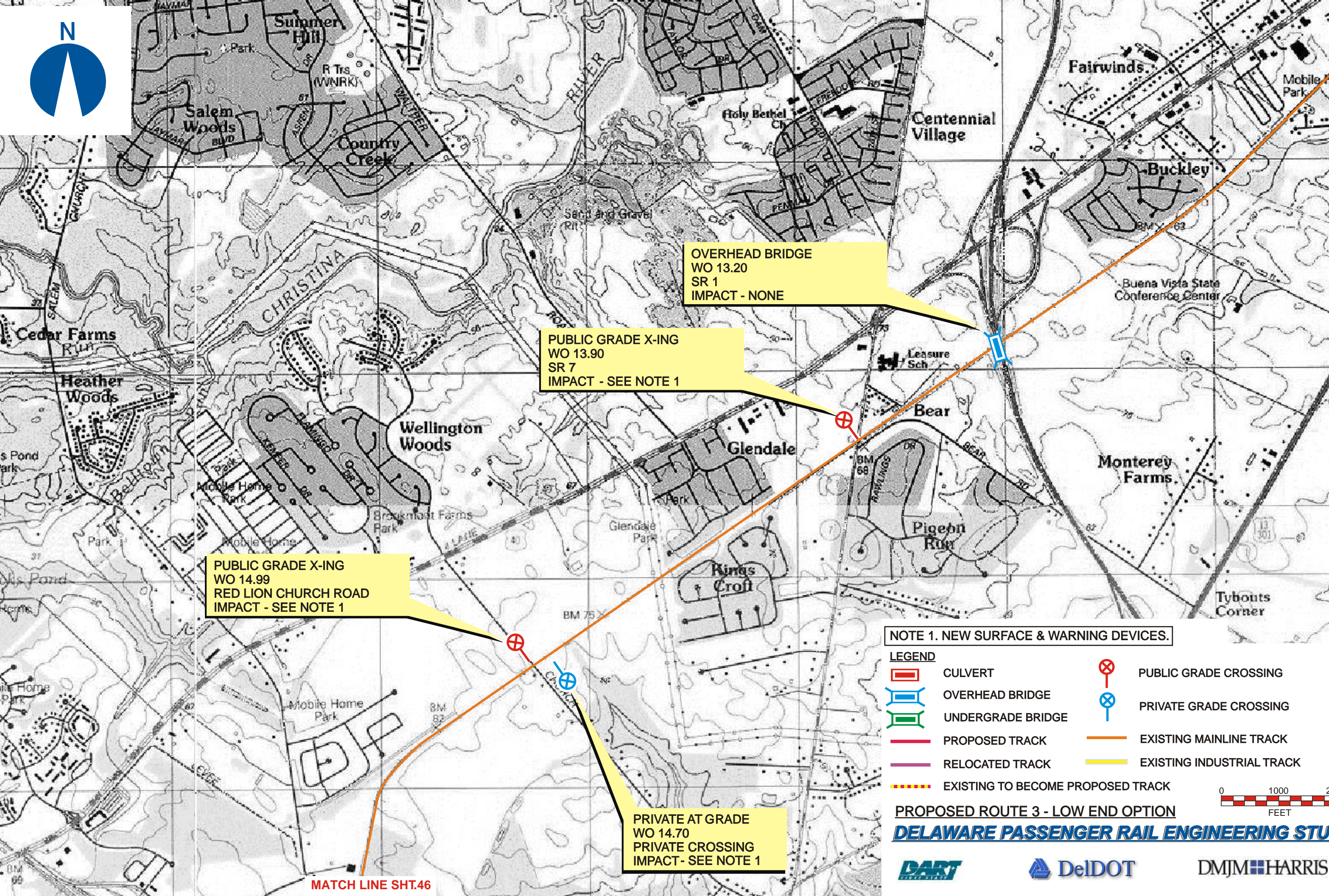
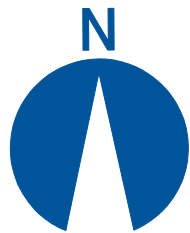
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**











MATCH LINE SHT.44

OVERHEAD BRIDGE  
WO 13.20  
SR 1  
IMPACT - NONE

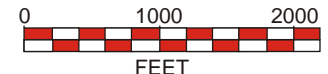
PUBLIC GRADE X-ING  
WO 13.90  
SR 7  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 14.99  
RED LION CHURCH ROAD  
IMPACT - SEE NOTE 1

PRIVATE AT GRADE  
WO 14.70  
PRIVATE CROSSING  
IMPACT - SEE NOTE 1

NOTE 1. NEW SURFACE & WARNING DEVICES.

- | LEGEND |                                   |
|--------|-----------------------------------|
|        | CULVERT                           |
|        | OVERHEAD BRIDGE                   |
|        | UNDERGRADE BRIDGE                 |
|        | PROPOSED TRACK                    |
|        | RELOCATED TRACK                   |
|        | EXISTING TO BECOME PROPOSED TRACK |
|        | PUBLIC GRADE CROSSING             |
|        | PRIVATE GRADE CROSSING            |
|        | EXISTING MAINLINE TRACK           |
|        | EXISTING INDUSTRIAL TRACK         |

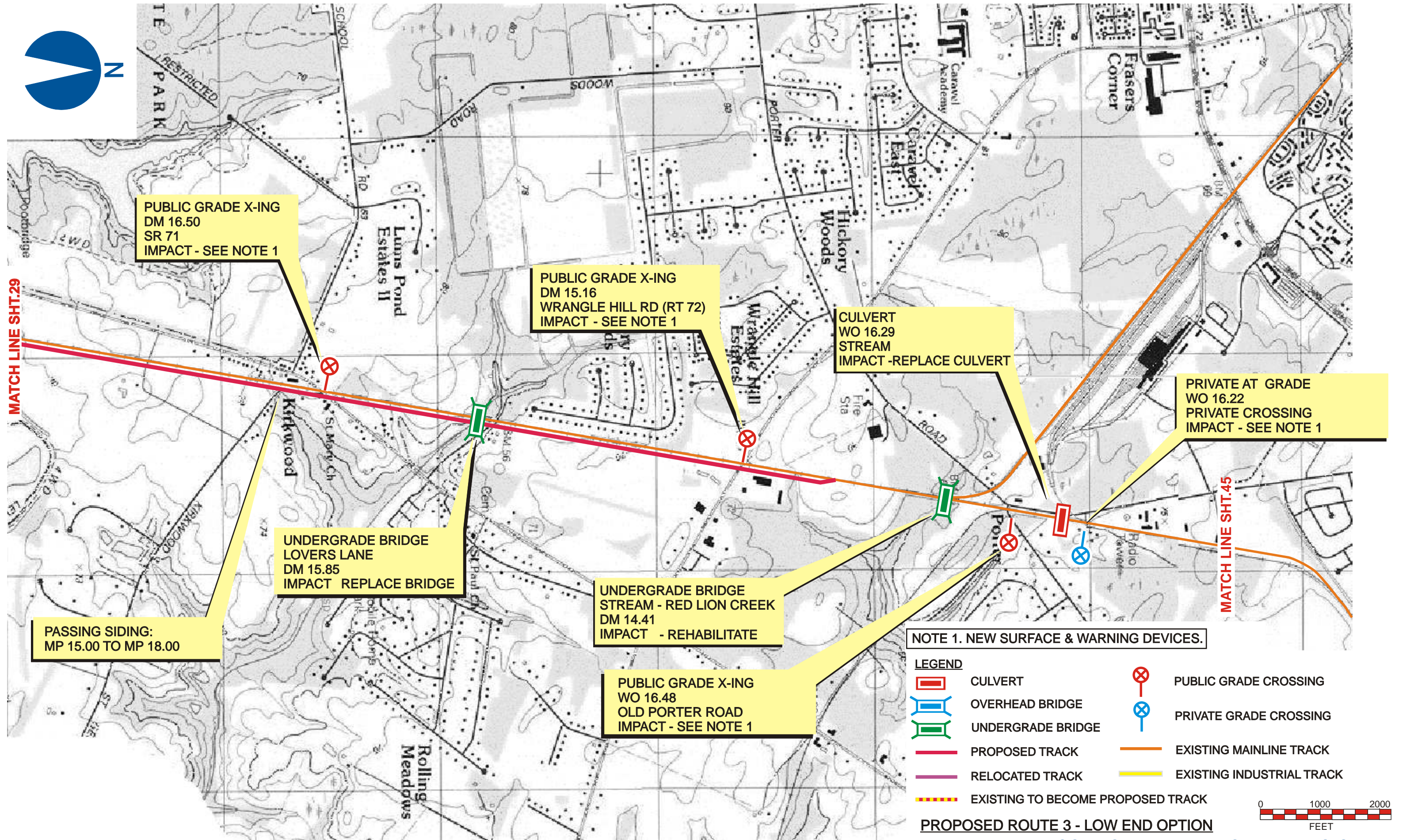


PROPOSED ROUTE 3 - LOW END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**

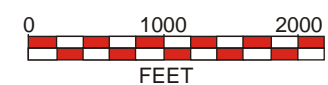
MATCH LINE SHT.46





NOTE 1. NEW SURFACE & WARNING DEVICES.

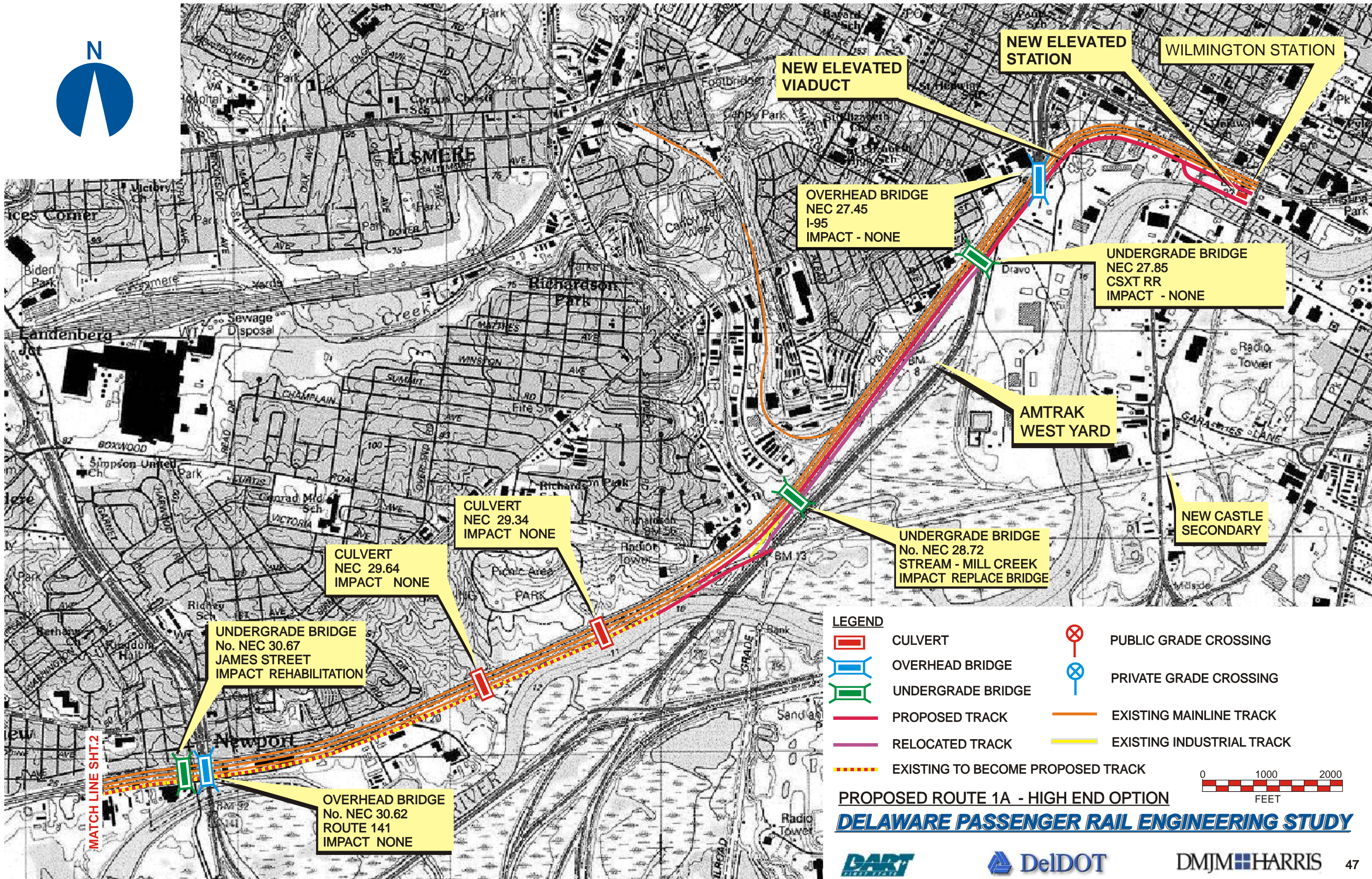
LEGEND			
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		EXISTING MAINLINE TRACK
	PROPOSED TRACK		EXISTING INDUSTRIAL TRACK
	RELOCATED TRACK		
	EXISTING TO BECOME PROPOSED TRACK		



PROPOSED ROUTE 3 - LOW END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





NEW ELEVATED VIADUCT

NEW ELEVATED STATION

WILMINGTON STATION

OVERHEAD BRIDGE  
NEC 27.45  
I-95  
IMPACT - NONE

UNDERGRADE BRIDGE  
NEC 27.85  
CSXT RR  
IMPACT - NONE

AMTRAK WEST YARD

NEW CASTLE SECONDARY

UNDERGRADE BRIDGE  
No. NEC 28.72  
STREAM - MILL CREEK  
IMPACT REPLACE BRIDGE

CULVERT  
NEC 29.34  
IMPACT NONE

CULVERT  
NEC 29.64  
IMPACT NONE

UNDERGRADE BRIDGE  
No. NEC 30.67  
JAMES STREET  
IMPACT REHABILITATION

OVERHEAD BRIDGE  
No. NEC 30.62  
ROUTE 141  
IMPACT NONE

LEGEND

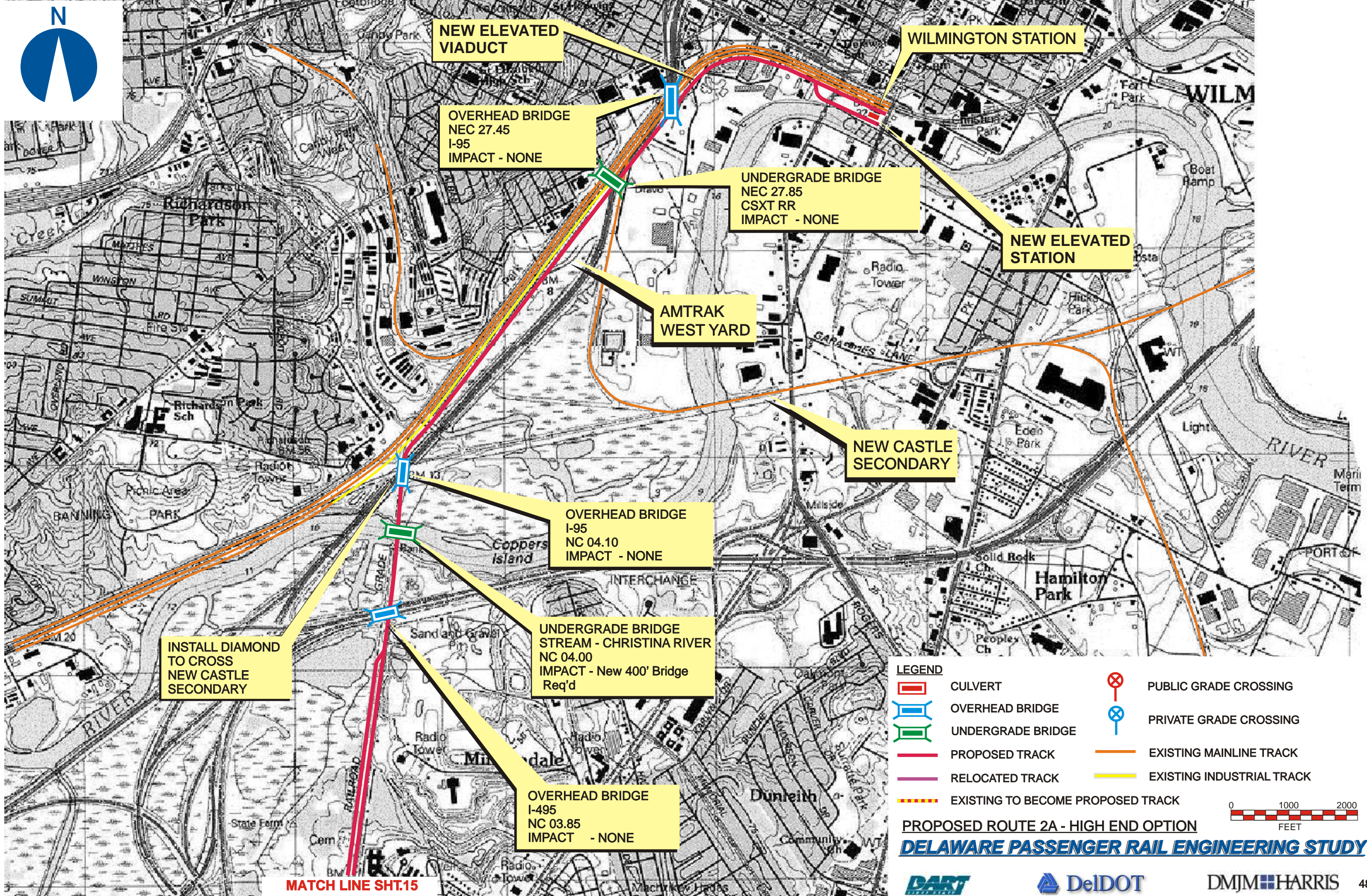
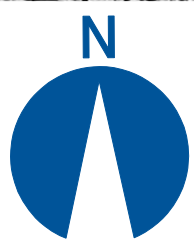
- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  | EXISTING MAINLINE TRACK   |
|  | PROPOSED TRACK                    |  | EXISTING INDUSTRIAL TRACK |
|  | RELOCATED TRACK                   |  |                           |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

PROPOSED ROUTE 1A - HIGH END OPTION

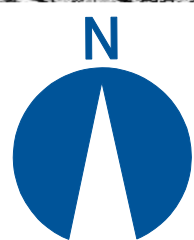
**DELAWARE PASSENGER RAIL ENGINEERING STUDY**











NEW ELEVATED  
VIADUCT

NEW ELEVATED  
STATION

WILMINGTON STATION

OVERHEAD BRIDGE  
NEC 27.45  
I-95  
IMPACT - NONE

WILMINGTON &  
NORTHERN  
RIGHT-OF-WAY

UNDERGRADE BRIDGE  
NEC 27.85  
CSXT RR  
IMPACT - NONE

AMTRAK  
WEST YARD

PUBLIC GRADE X-ING  
GARASCHERS LANE  
WO 02.30  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
NEW CASTLE AVENUE  
WO 02.60  
IMPACT - SEE NOTE 1

OVERHEAD BRIDGE  
I-495  
WO 03.05  
IMPACT- SHIFT EXIST. TRACK

NEW CASTLE  
SECONDARY

UNDERGRADE BRIDGE  
STREAM - CHRISTINA RIVER  
WO 01.68  
IMPACT - REHABILITATE

OVERHEAD BRIDGE  
US 13  
WO 01.91  
IMPACT - NONE

CULVERT  
WO 1.92  
IMPACT - REPLACE

PRIVATE AT GRADE  
WO 03.75  
PRIVATE DRIVEWAY  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
WO 04.30  
LAMBSONS LANE  
IMPACT - SEE NOTE 1

PUBLIC GRADE X-ING  
TERMINAL AVENUE  
WO 03.45  
IMPACT - SEE NOTE 1

NOTE 1. NEW SURFACE & WARNING DEVICES.

LEGEND

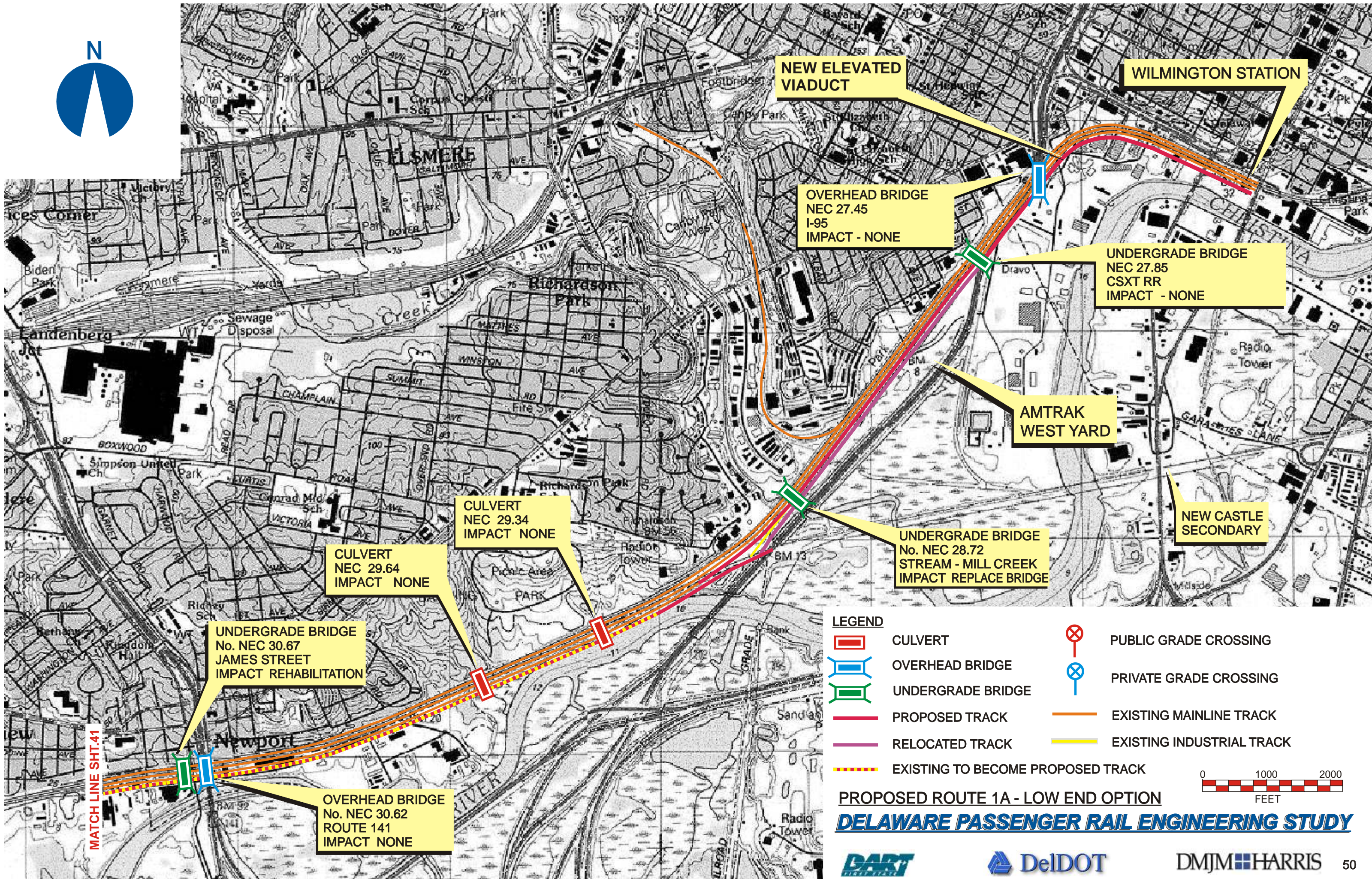
	CULVERT		PUBLIC GRADE CROSSING
	OVERHEAD BRIDGE		PRIVATE GRADE CROSSING
	UNDERGRADE BRIDGE		
	PROPOSED TRACK		EXISTING MAINLINE TRACK
	RELOCATED TRACK		EXISTING INDUSTRIAL TRACK
	EXISTING TO BECOME PROPOSED TRACK		

PROPOSED ROUTE 3A - HIGH END OPTION

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**







**NEW ELEVATED VIADUCT**

**WILMINGTON STATION**

**OVERHEAD BRIDGE**  
NEC 27.45  
I-95  
IMPACT - NONE

**UNDERGRADE BRIDGE**  
NEC 27.85  
CSXT RR  
IMPACT - NONE

**AMTRAK WEST YARD**

**NEW CASTLE SECONDARY**

**UNDERGRADE BRIDGE**  
No. NEC 28.72  
STREAM - MILL CREEK  
IMPACT REPLACE BRIDGE

**CULVERT**  
NEC 29.34  
IMPACT NONE

**CULVERT**  
NEC 29.64  
IMPACT NONE

**UNDERGRADE BRIDGE**  
No. NEC 30.67  
JAMES STREET  
IMPACT REHABILITATION

**OVERHEAD BRIDGE**  
No. NEC 30.62  
ROUTE 141  
IMPACT NONE

**LEGEND**

- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | CULVERT                           |  | PUBLIC GRADE CROSSING     |
|  | OVERHEAD BRIDGE                   |  | PRIVATE GRADE CROSSING    |
|  | UNDERGRADE BRIDGE                 |  |                           |
|  | PROPOSED TRACK                    |  | EXISTING MAINLINE TRACK   |
|  | RELOCATED TRACK                   |  | EXISTING INDUSTRIAL TRACK |
|  | EXISTING TO BECOME PROPOSED TRACK |  |                           |

**PROPOSED ROUTE 1A - LOW END OPTION**

**DELAWARE PASSENGER RAIL ENGINEERING STUDY**





