

APPENDIX G

PLAN VIEW DRAWINGS AND TYPICAL SECTIONS

WEST LAKE CORRIDOR PROJECT

NICD

DRAFT CONCEPTUAL DESIGN PLANS

AGREEMENT NUMBER: 78011

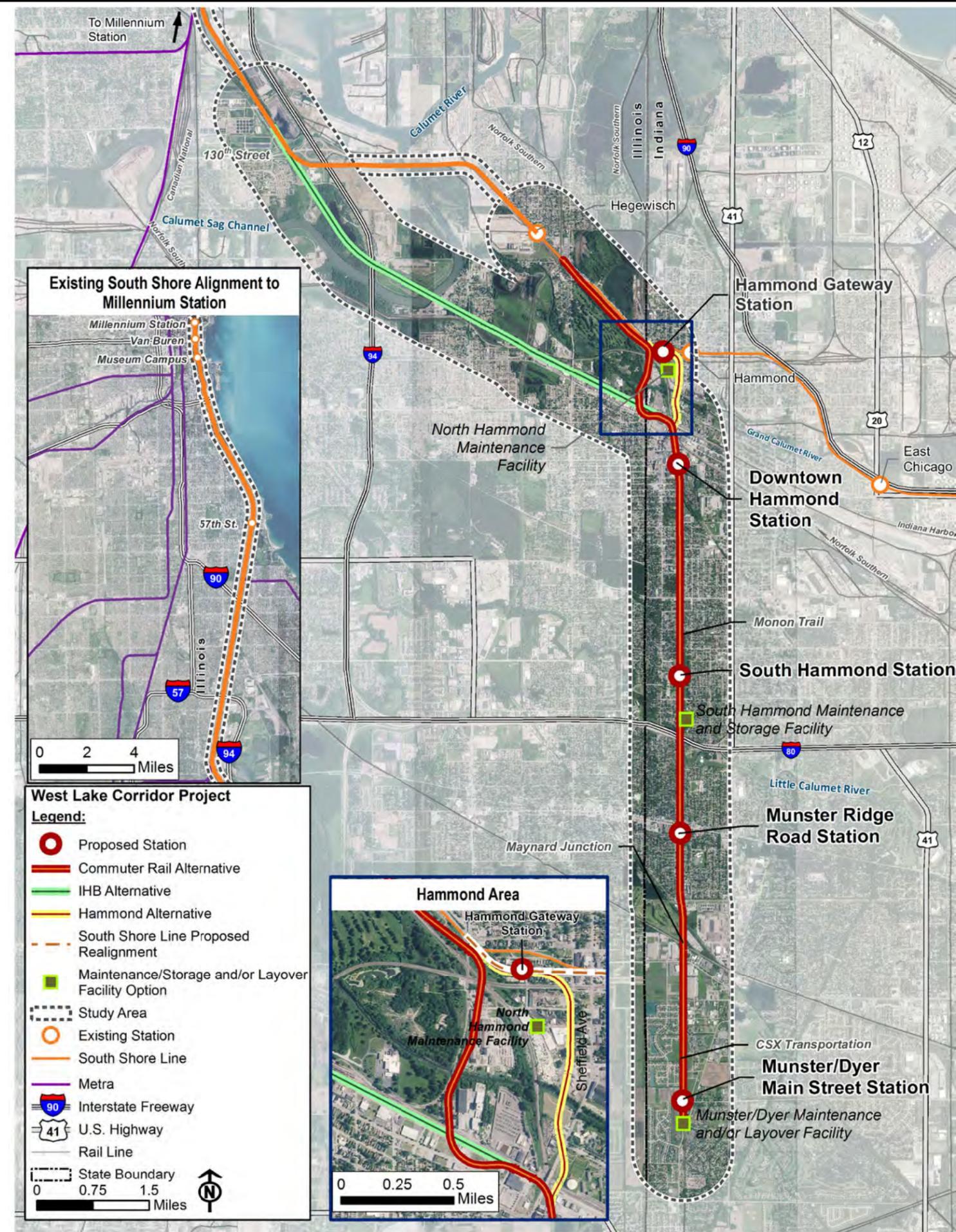
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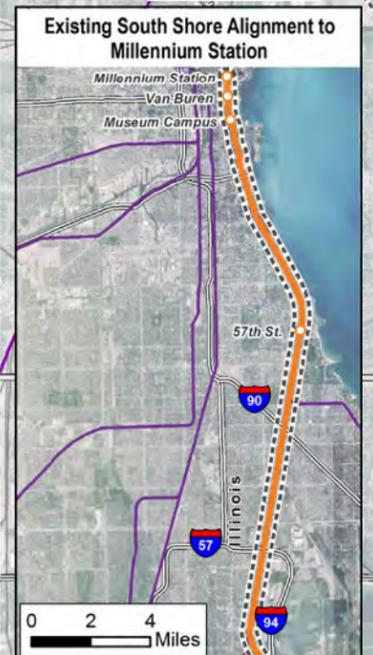
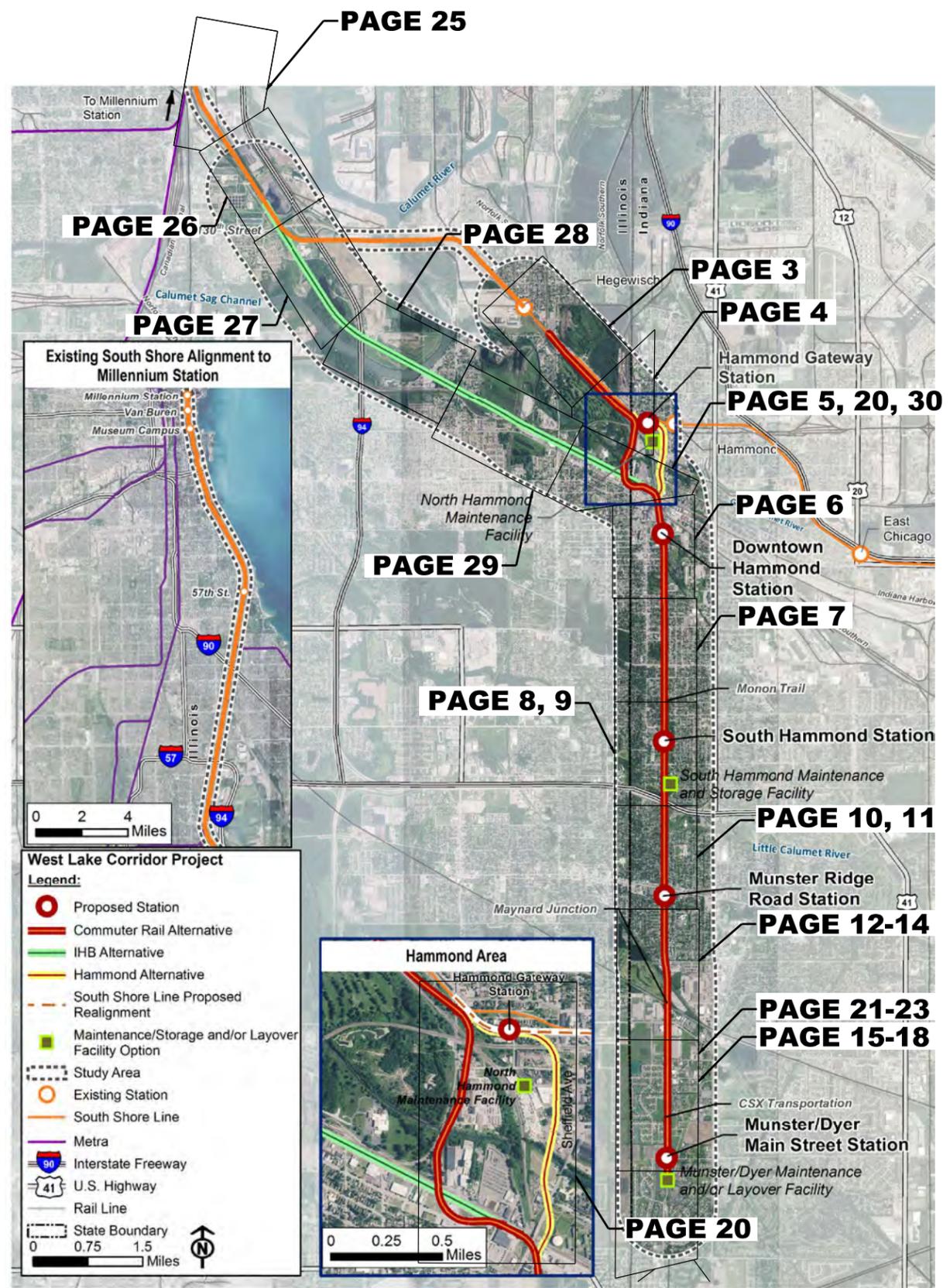
PAGE NUMBER	DESCRIPTION
1	COVER PAGE
2	KEY MAP
3-18	COMMUTER RAIL ALTERNATIVE DYER TO HAMMOND
20-23	HAMMOND ALIGNMENT ALTERNATIVE
25-30	INDIANA HARBOR BELT ALTERNATIVE

JUNE 1, 2016



REV	DATE	BY	APP.	DESCRIPTION	DRAWN: KH
					CHECKED: GF
					APPROVED: PVK
					DATE: 6/1/2016





West Lake Corridor Project Legend:

- Proposed Station
- Commuter Rail Alternative
- IHB Alternative
- Hammond Alternative
- South Shore Line Proposed Realignment
- Maintenance/Storage and/or Layover Facility Option
- Study Area
- Existing Station
- South Shore Line
- Metra
- Interstate Freeway
- U.S. Highway
- Rail Line
- State Boundary

Scale: 0 0.75 1.5 Miles



REV	DATE	BY	APP.	DESCRIPTION

DESIGNED: CWH
 DRAWN: KH
 CHECKED: GF
 APPROVED: PVK
 DATE: 6/1/2016



**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 PROJECT KEY**

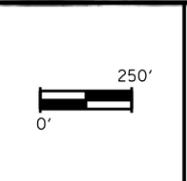
PROJECT ID: 7801.1
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- EXISTING RAIL ---
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- CONSTRUCT NEW TRACK ---
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- PARCELS ---
- INCORPORATED AREA BOUNDARIES ---
- PROPOSED RIGHT OF WAY ---
- PROPERTY ACQUISITION ---
- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



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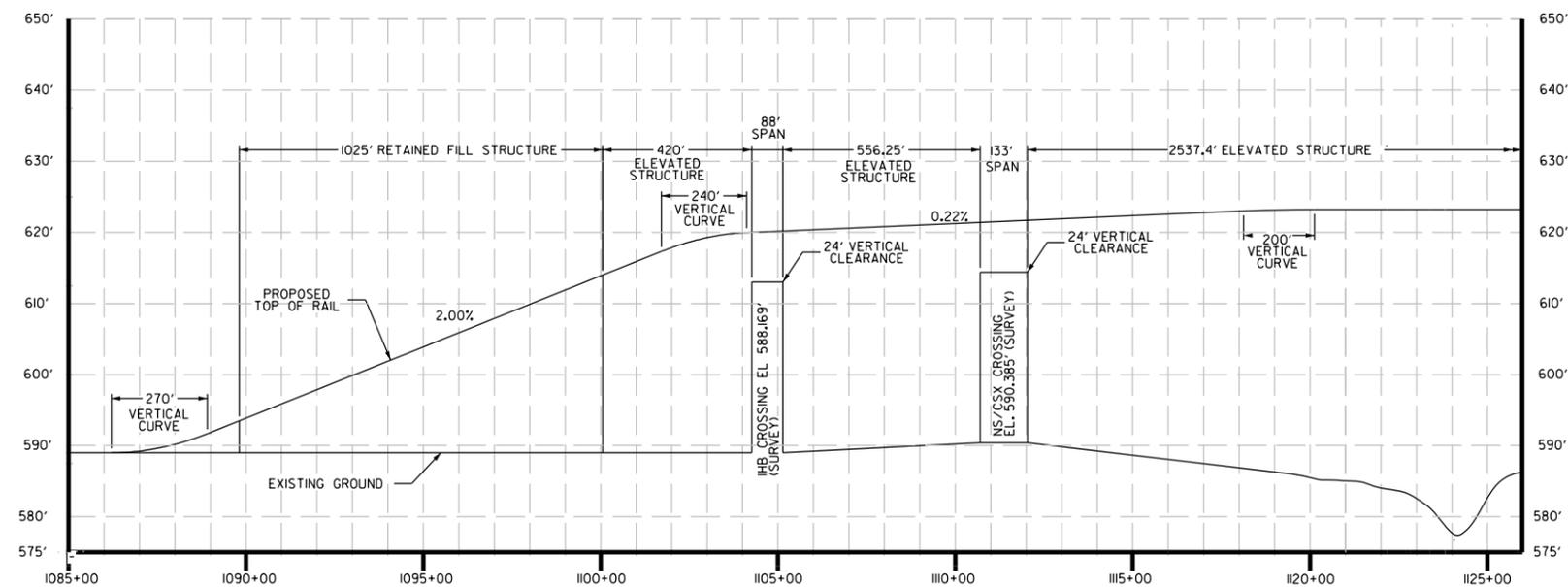
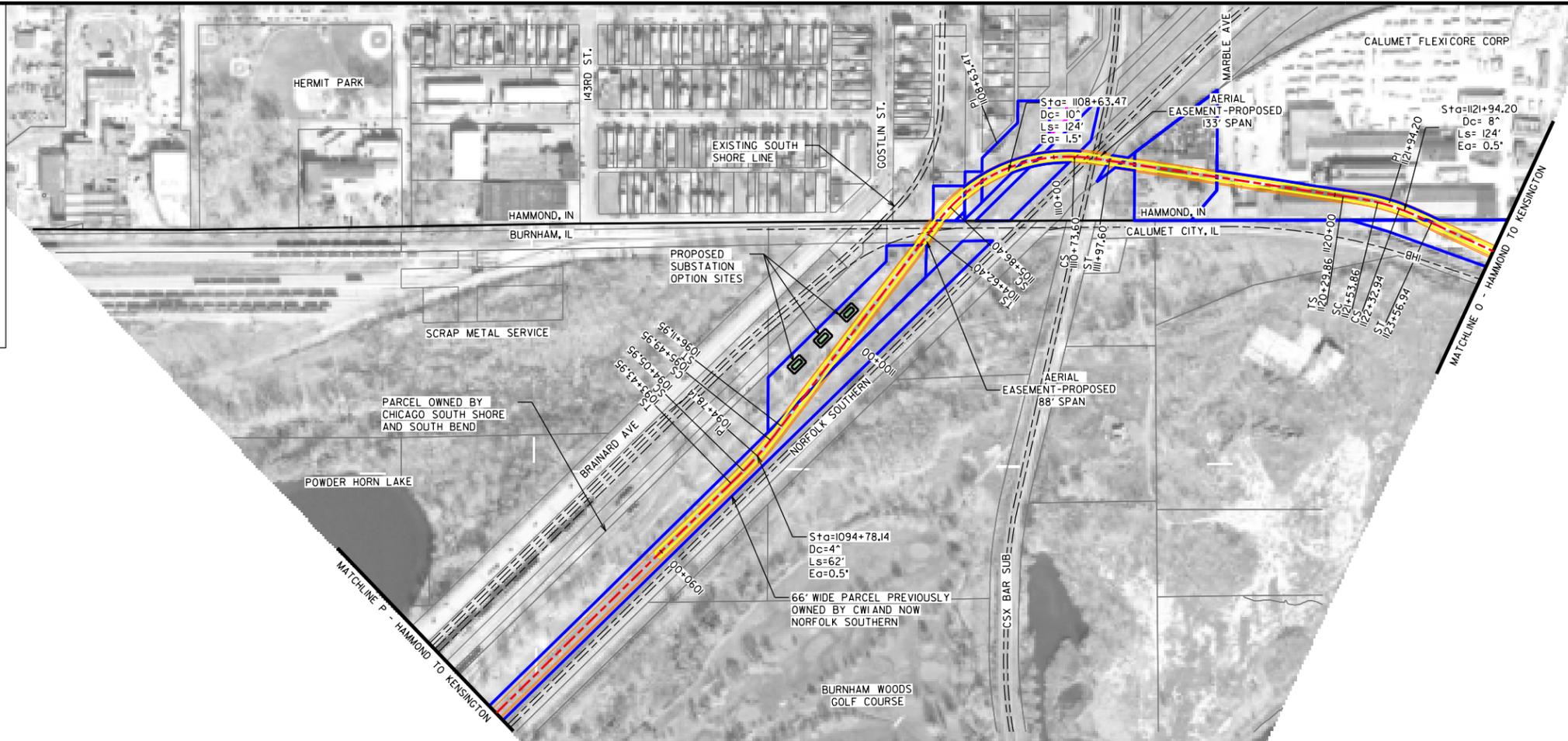


**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 COMMUTER RAIL ALTERNATIVE**

PROJECT ID: 7801.1
 PAGE NO.: 3

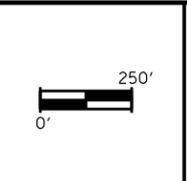
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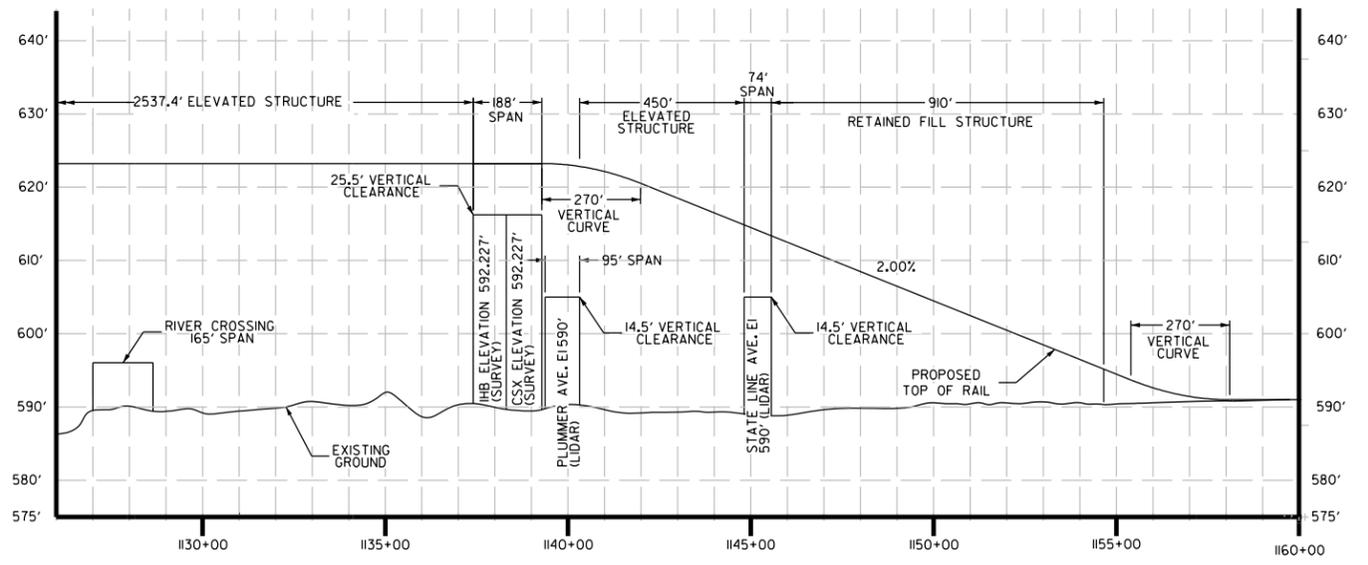
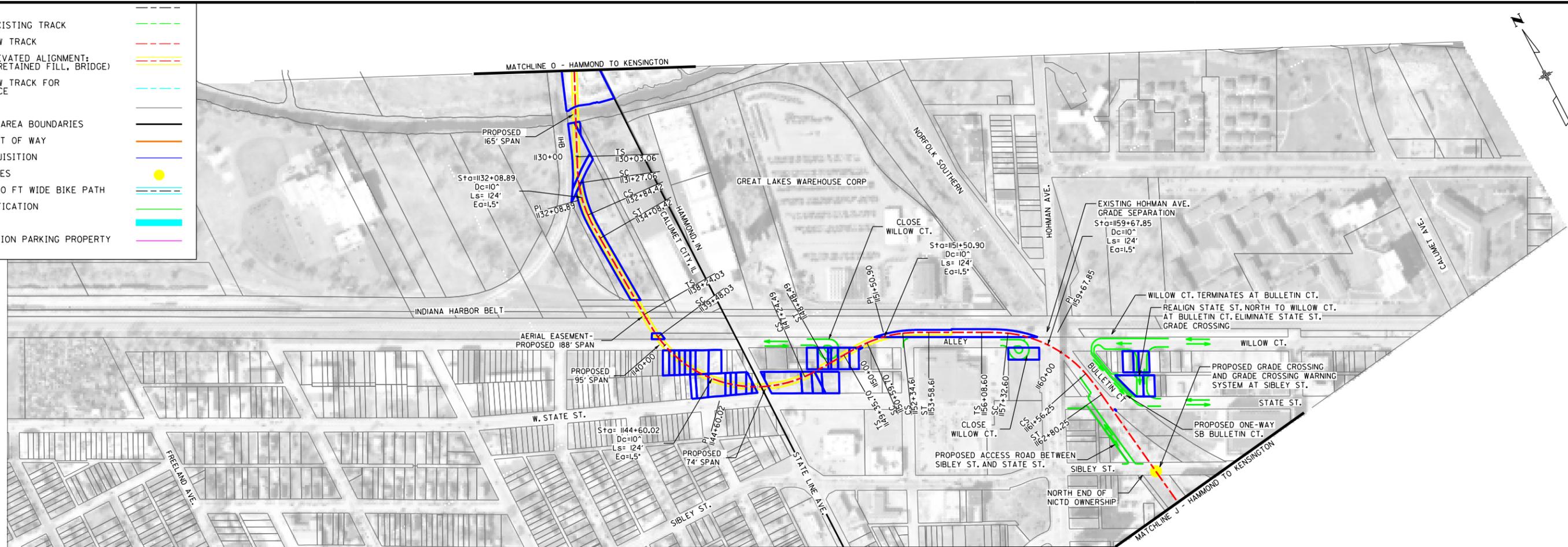
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 PROJECT DRAFT CONCEPTUAL
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 COMMUTER RAIL ALTERNATIVE**

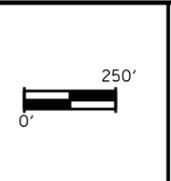
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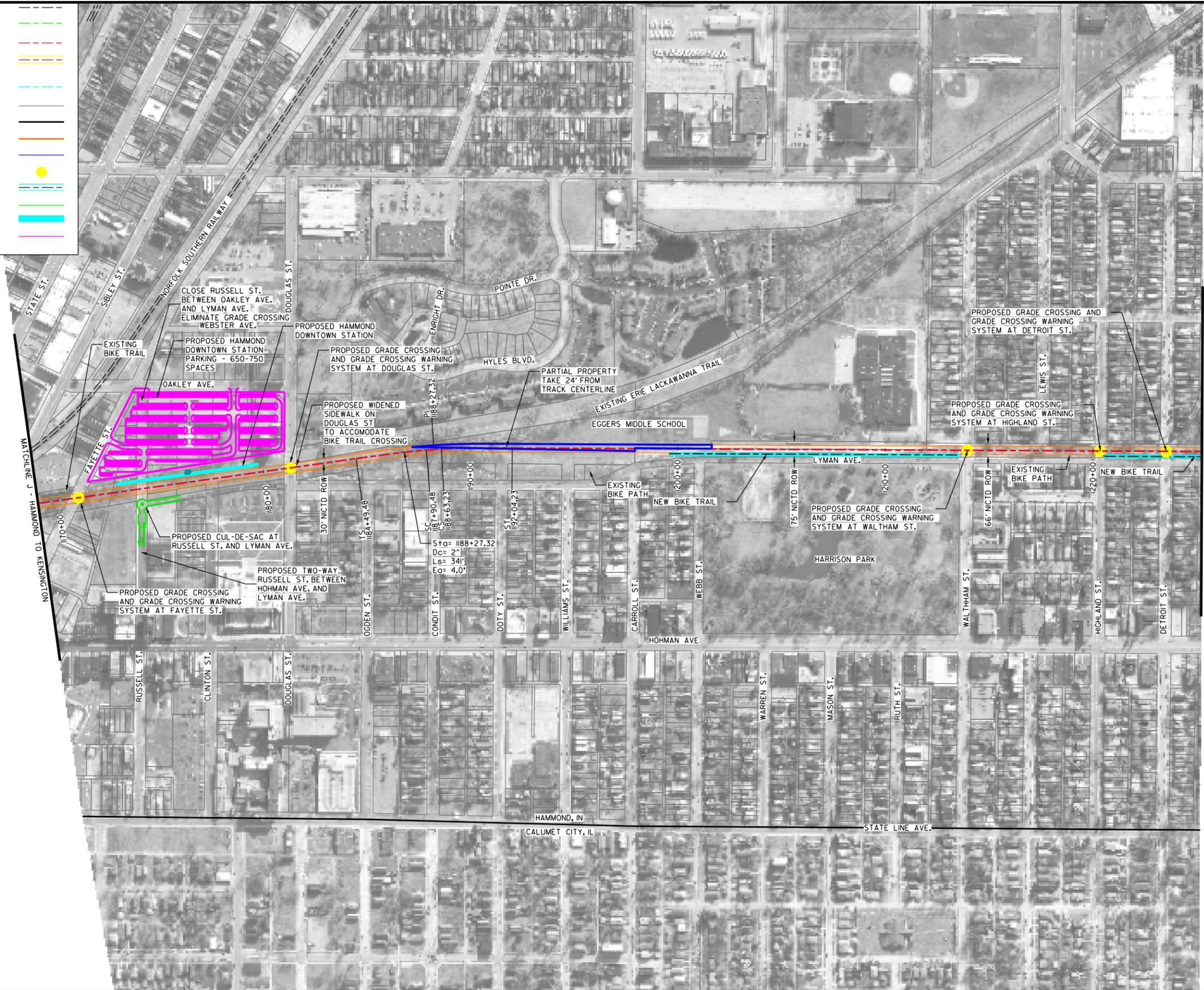
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
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 COMMUTER RAIL ALTERNATIVE**

PROJECT ID: 7801.1
 PAGE NO.: 5

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**NICTD WEST LAKE CORRIDOR
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 COMMUTER RAIL ALTERNATIVE
 AND IHB ALTERNATIVE**

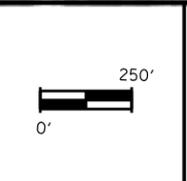
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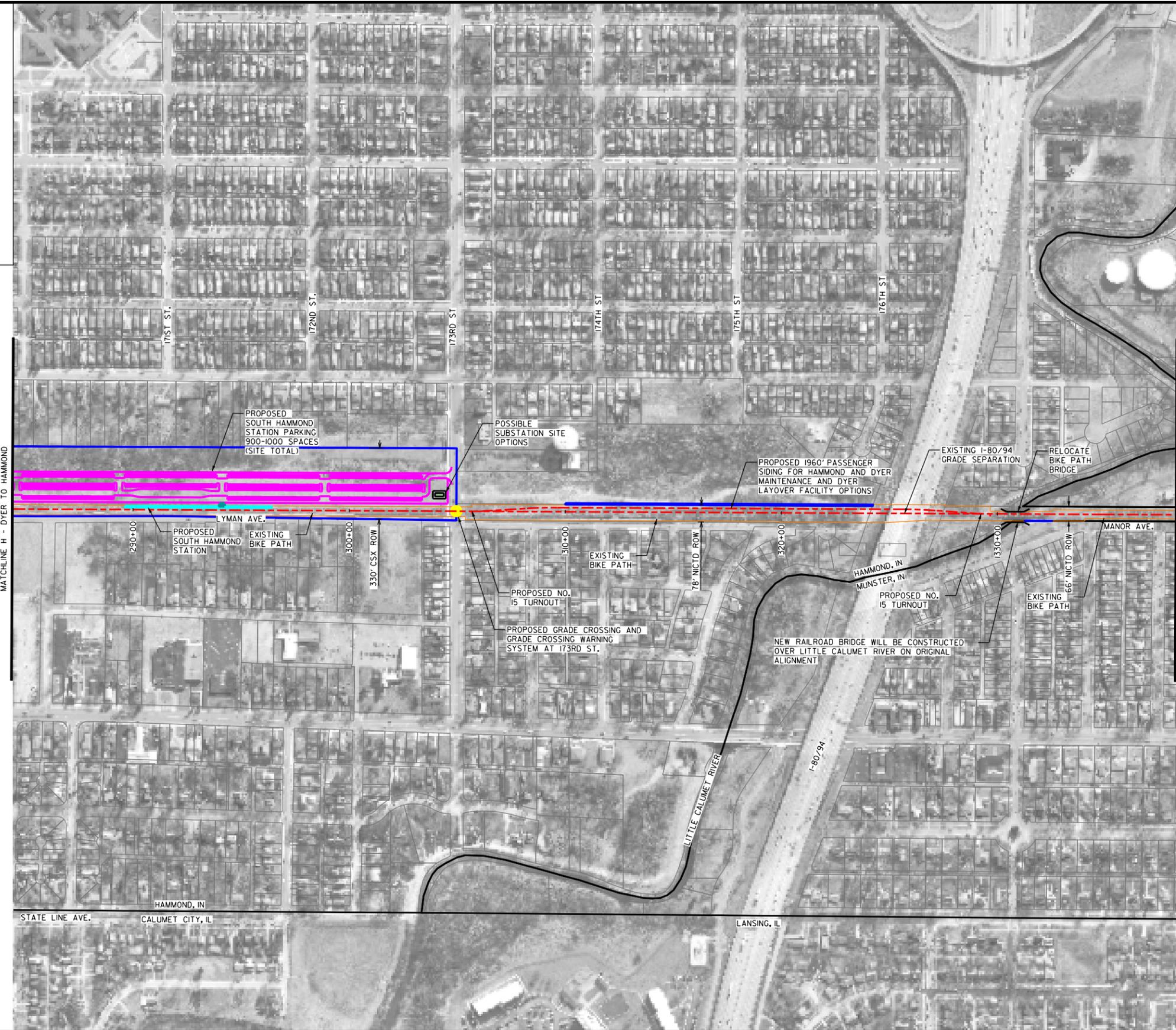
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**NICTD WEST LAKE CORRIDOR
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 COMMUTER RAIL ALT., IHB ALT.,
 AND HAMMOND ALT.**

PROJECT ID
7801 1
 PAGE NO. 7

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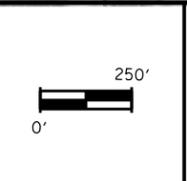
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MATCHLINE G - DYER TO HAMMOND



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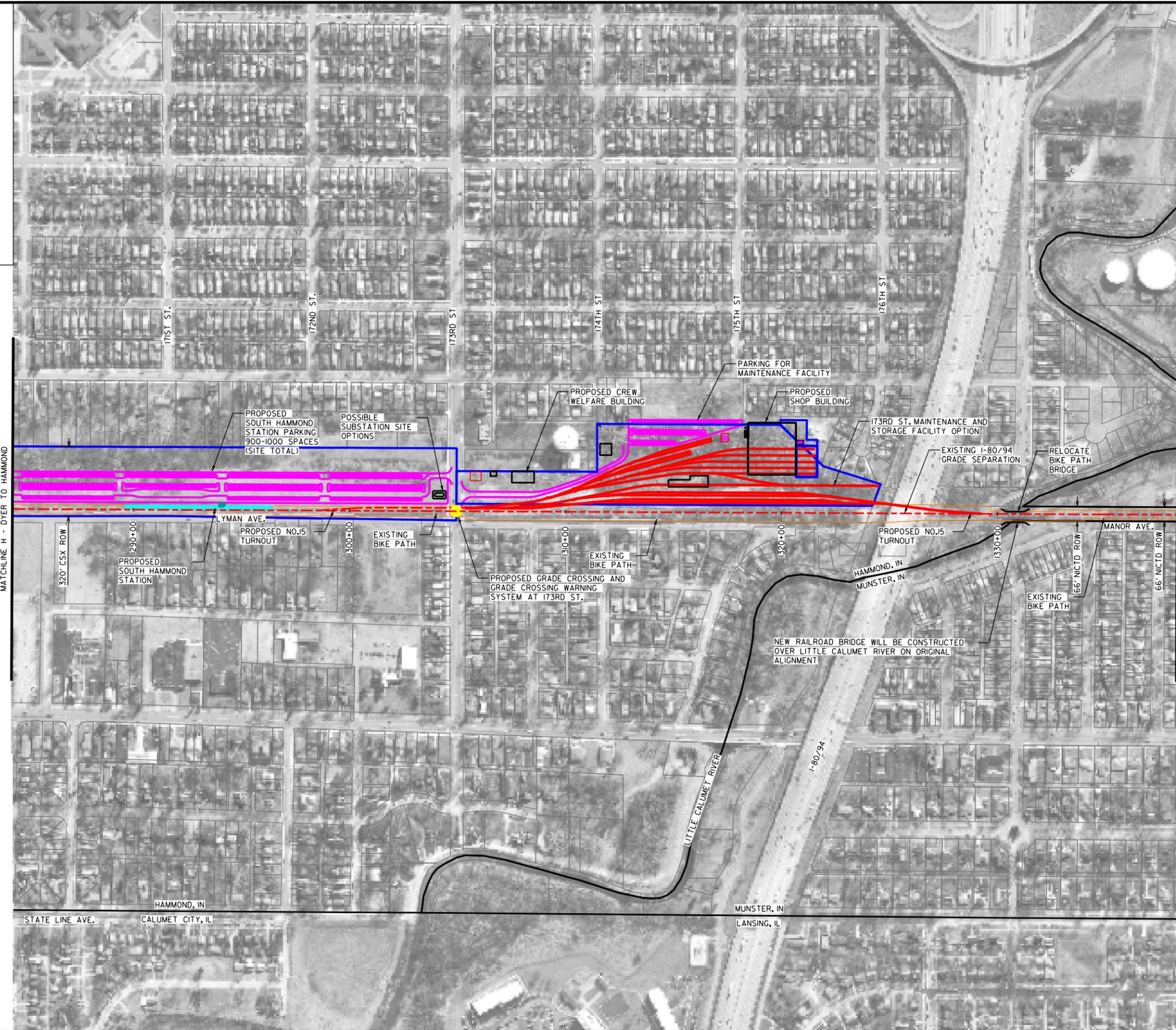
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
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 COMMUTER RAIL ALT., IHB ALT.,
 AND HAMMOND ALT.**

PROJECT ID
7801 1
 PAGE NO. 8

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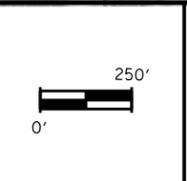
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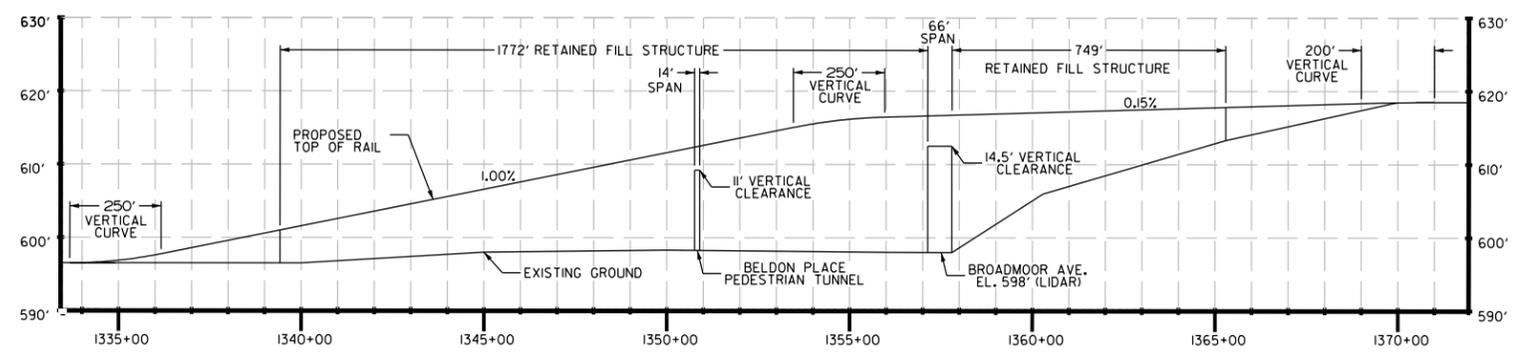
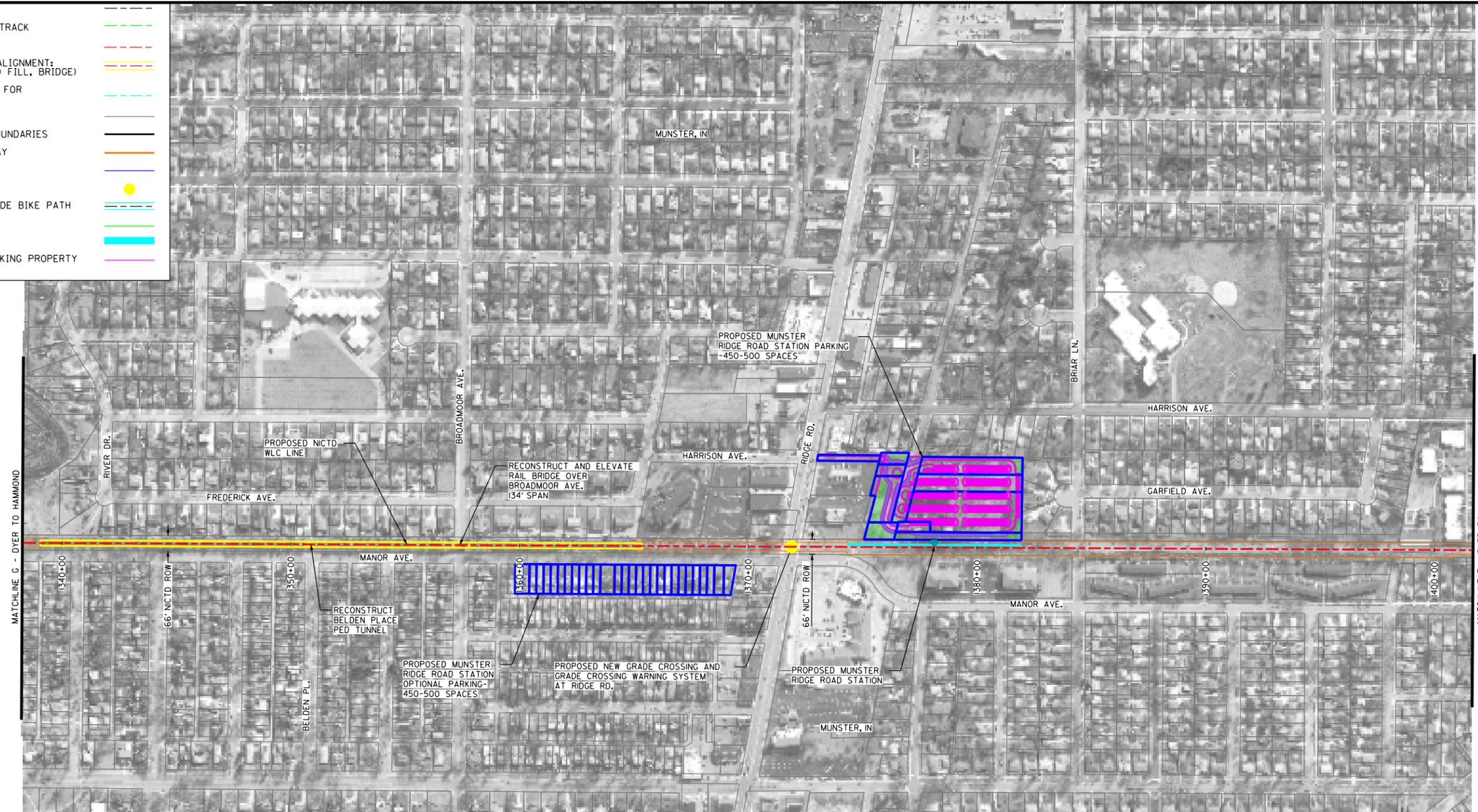
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 COMMUTER RAIL ALTERNATIVE
 AND IHB ALTERNATIVE**

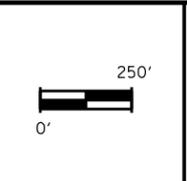
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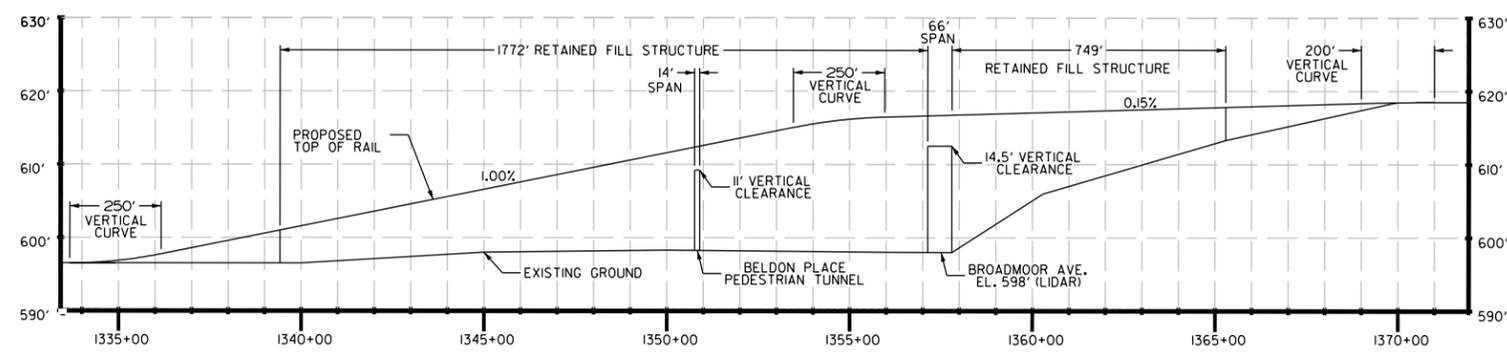
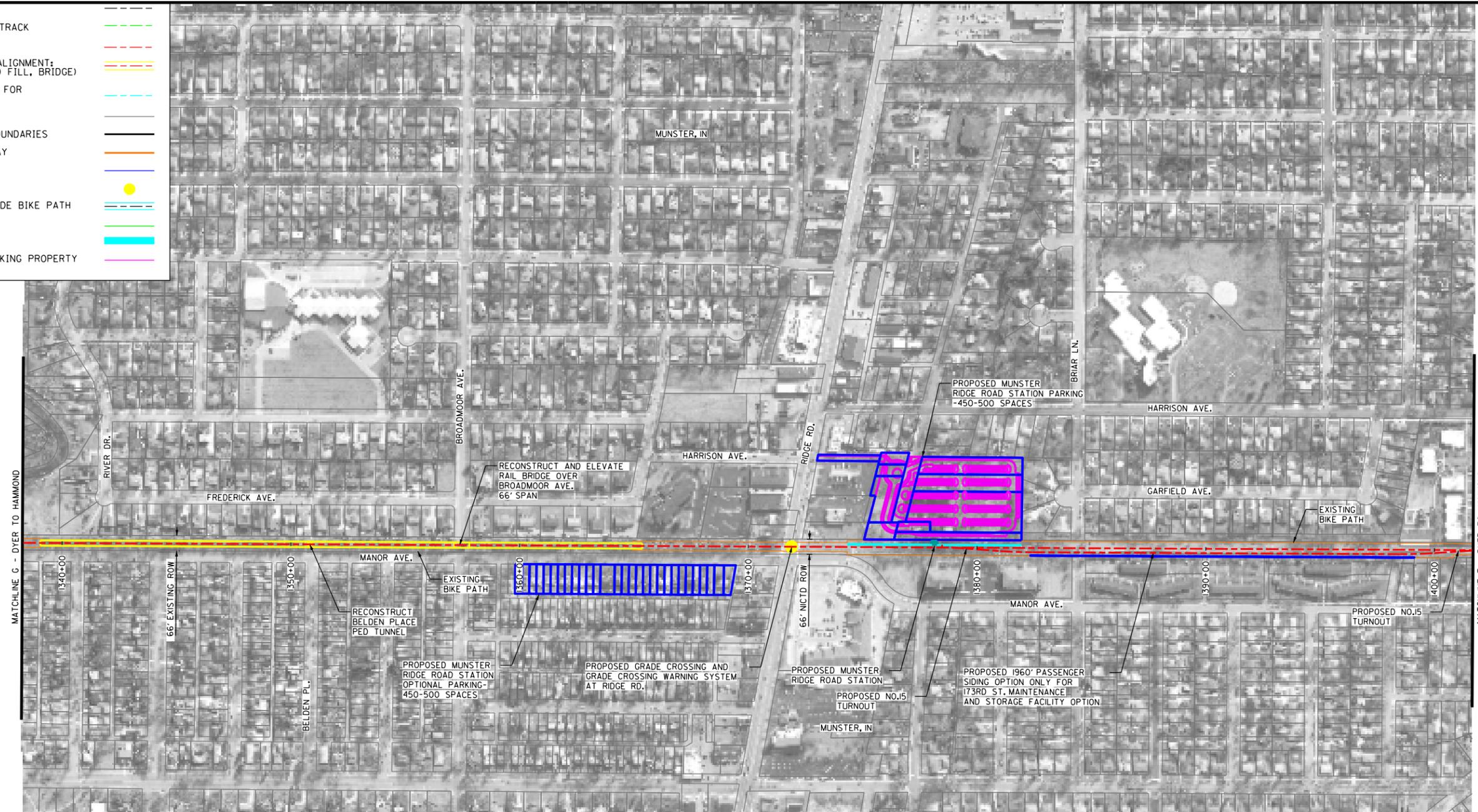
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**NICTD WEST LAKE CORRIDOR
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 COMMUTER RAIL ALT., IHB ALT.,
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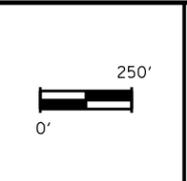
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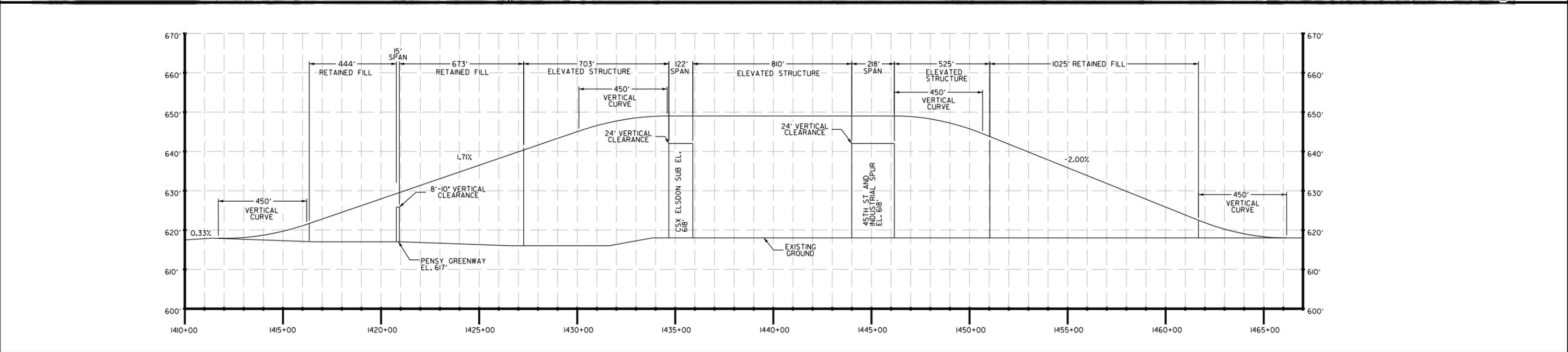
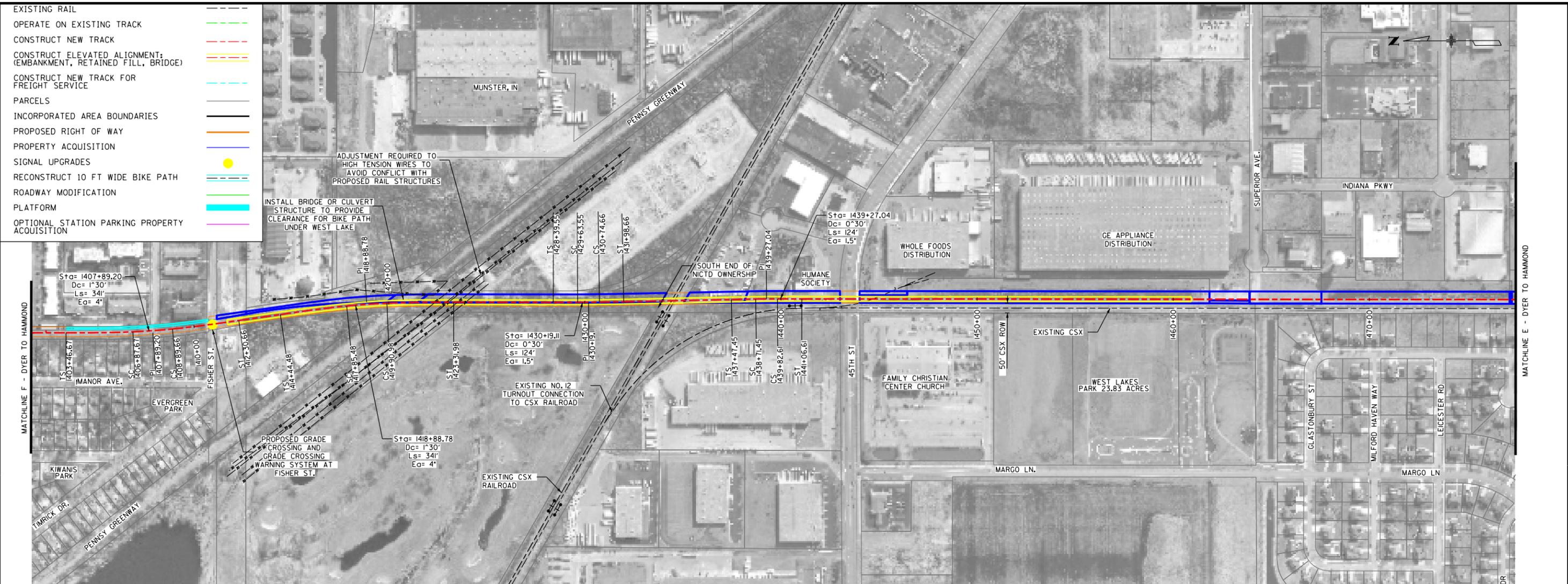
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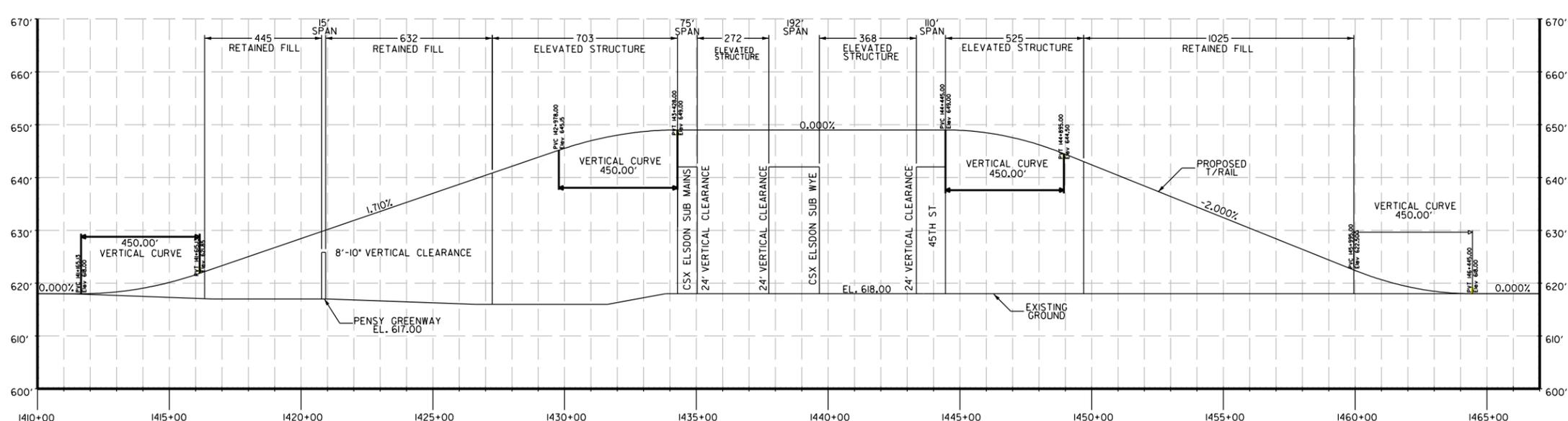
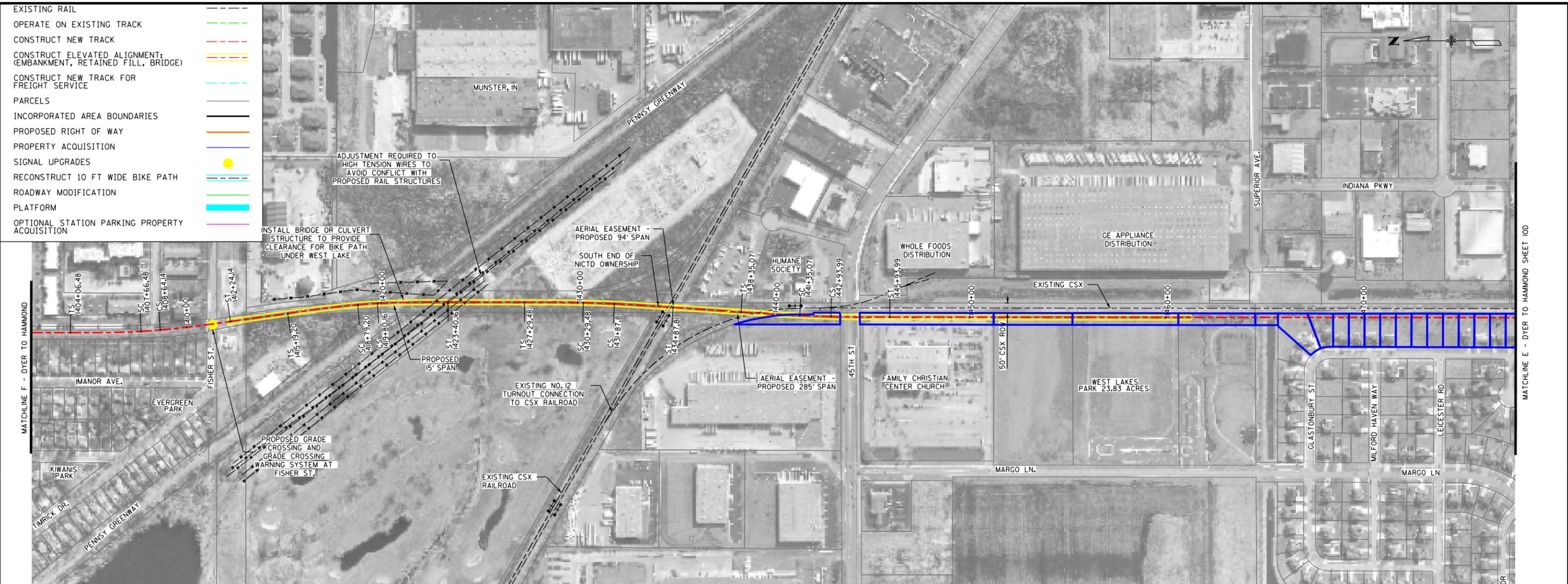


**NICTD WEST LAKE CORRIDOR
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 DESIGN PLANS
 COMMUTER RAIL ALT., IHB ALT.,
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PROJECT ID: 7801.1
 PAGE NO.: 11

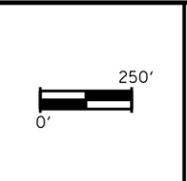


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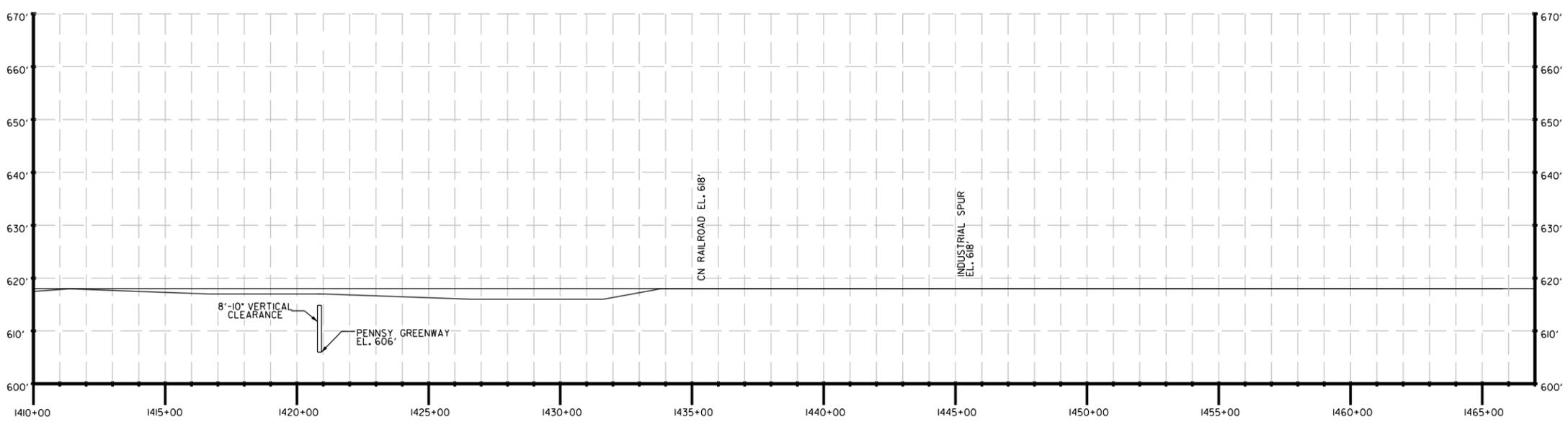
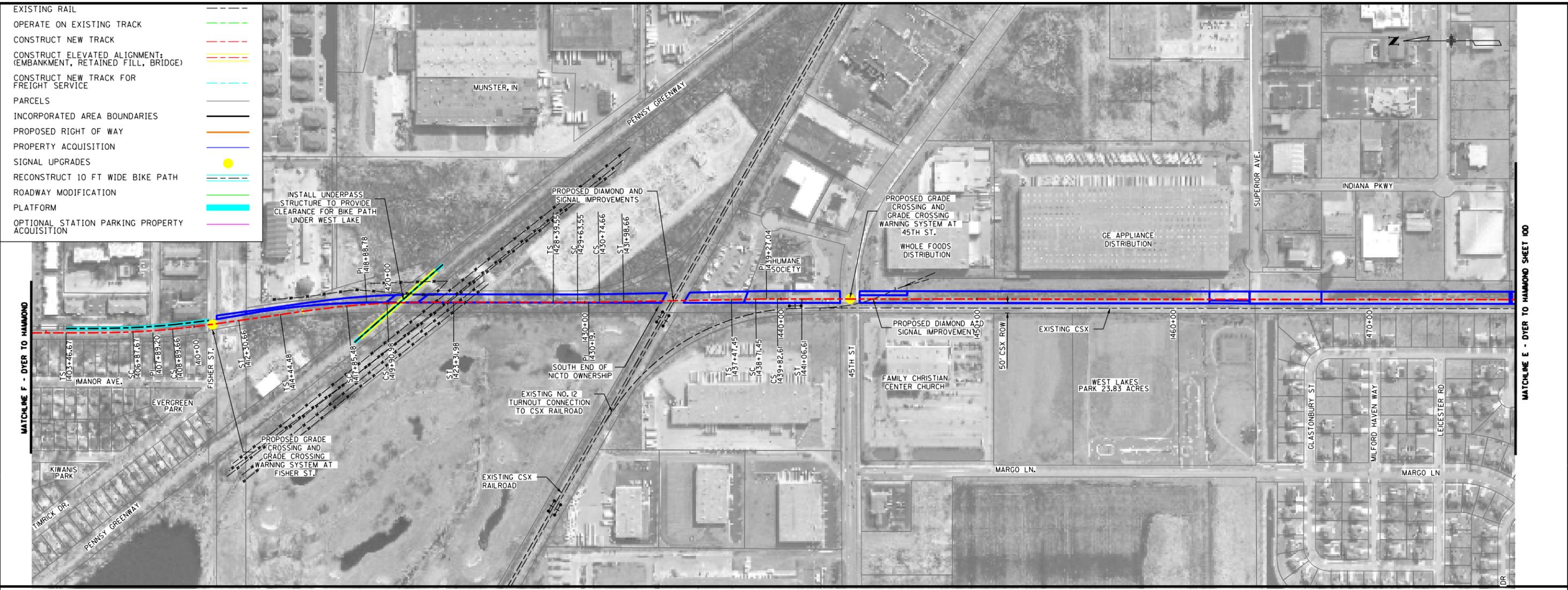
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 COMMUTER RAIL ALT., IHB ALT.,
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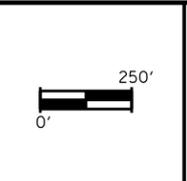
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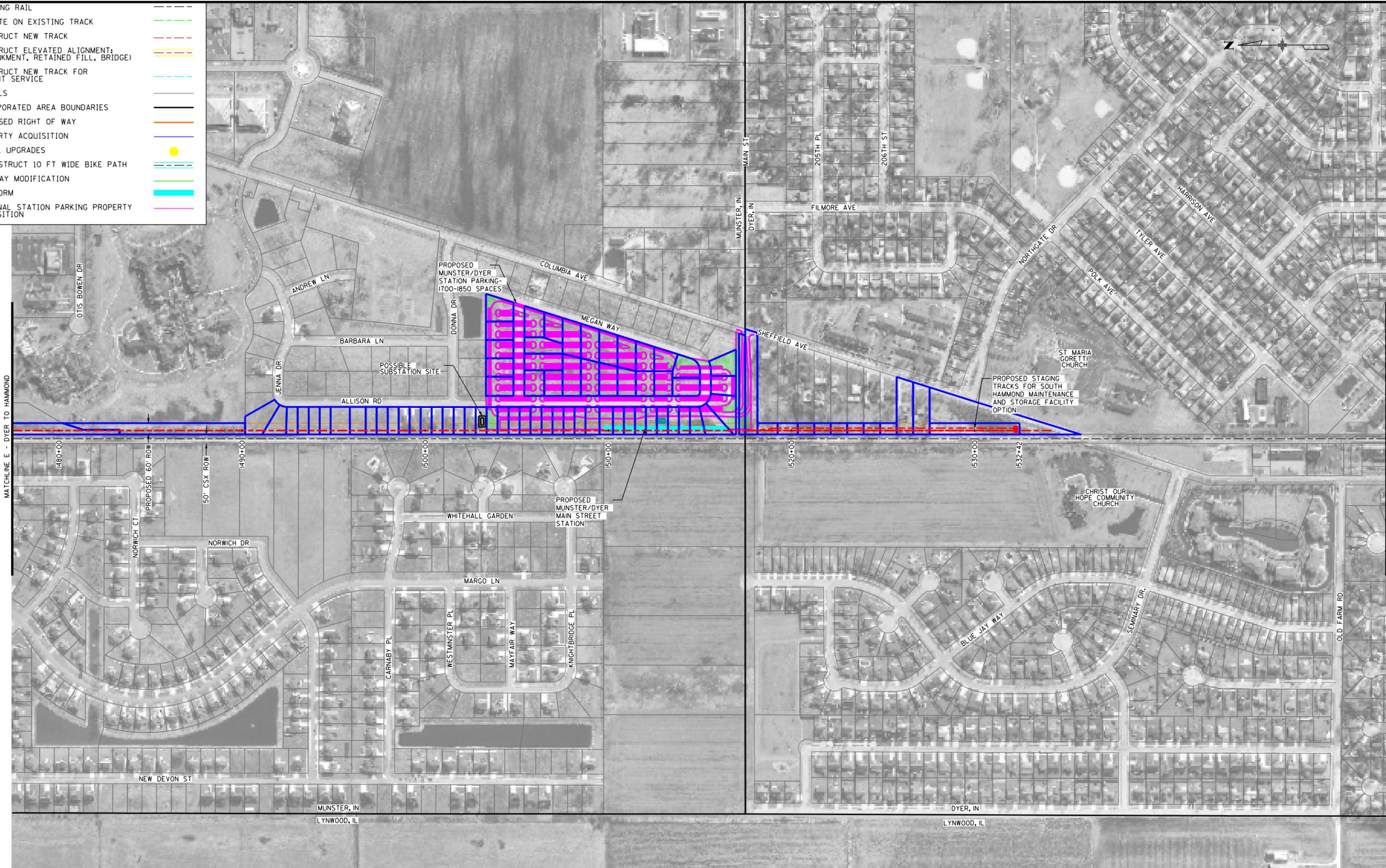
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
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 COMMUTER RAIL ALT., IHB ALT.,
 AND HAMMOND ALT.**

PROJECT ID: 7801.1
 PAGE NO.: 14

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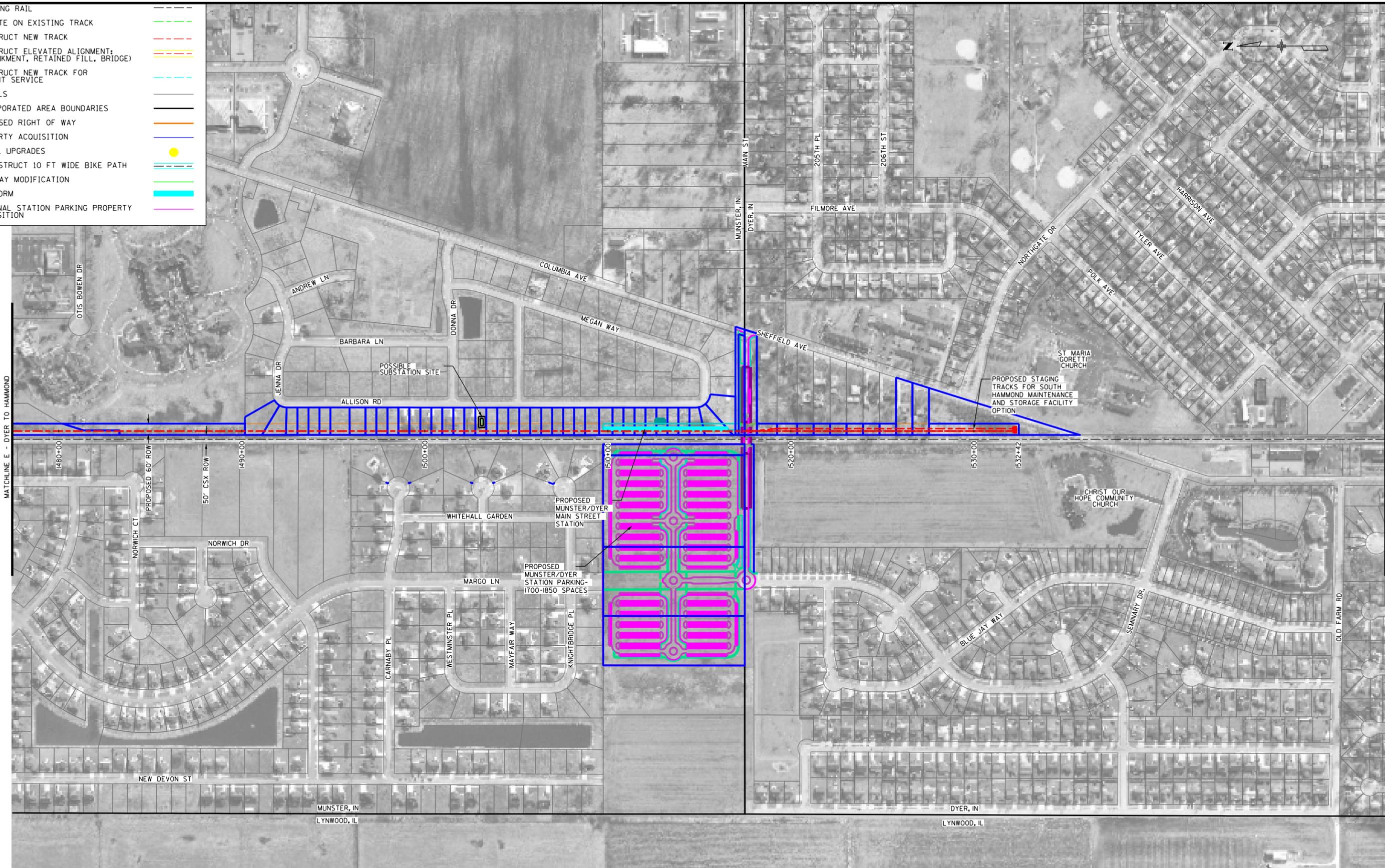
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**NICTD WEST LAKE CORRIDOR
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 COMMUTER RAIL ALTERNATIVE/
 IHB ALTERNATIVE OPTION 1**

PROJECT ID 7801 1
 PAGE NO. 15

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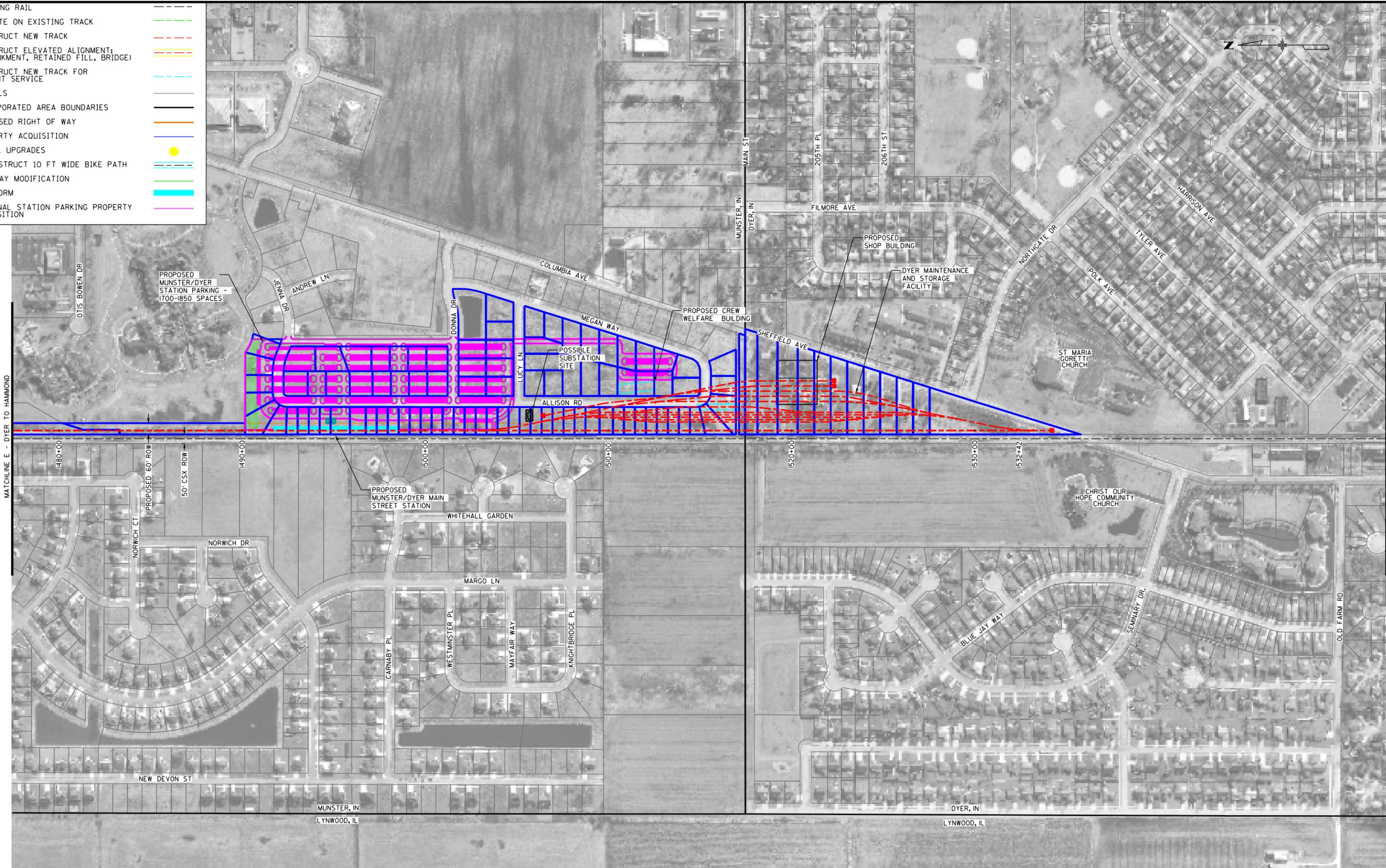
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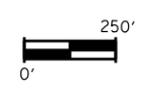
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 PROJECT DRAFT CONCEPTUAL
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 COMMUTER RAIL ALTERNATIVE/
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PROJECT ID 7801 1
 PAGE NO. 16

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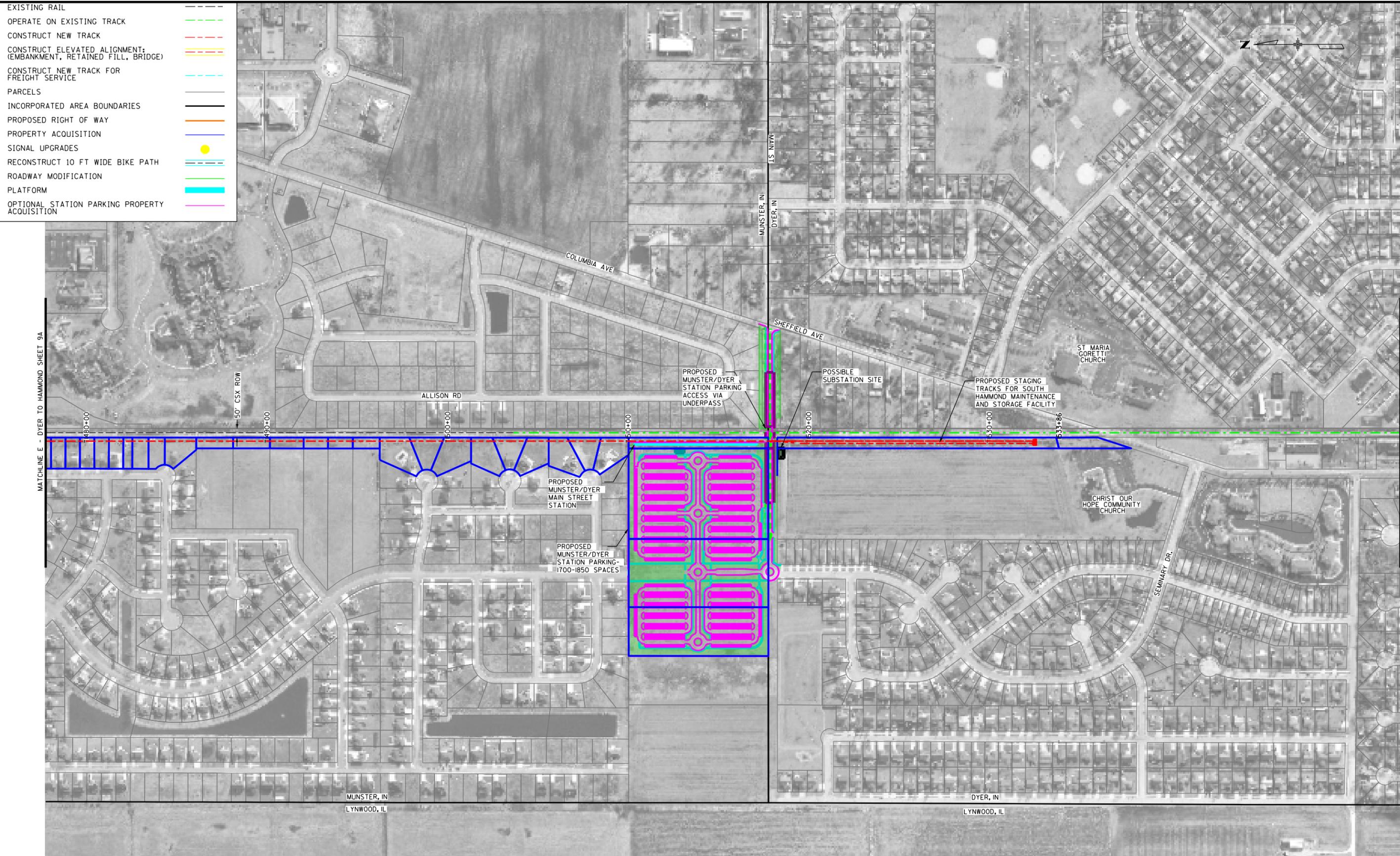


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PAGE NO.	17

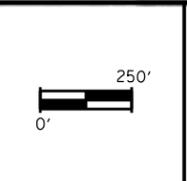
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 APPROVED: PVK
 DATE: 6/1/2016

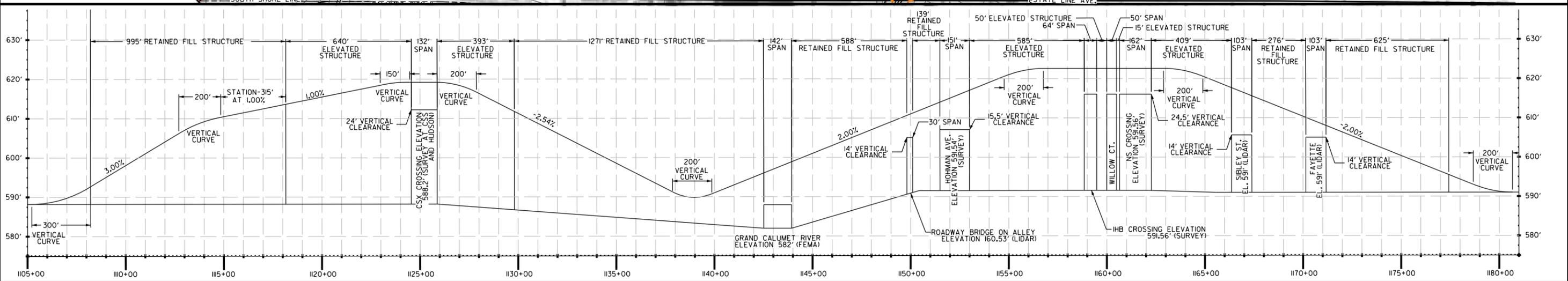
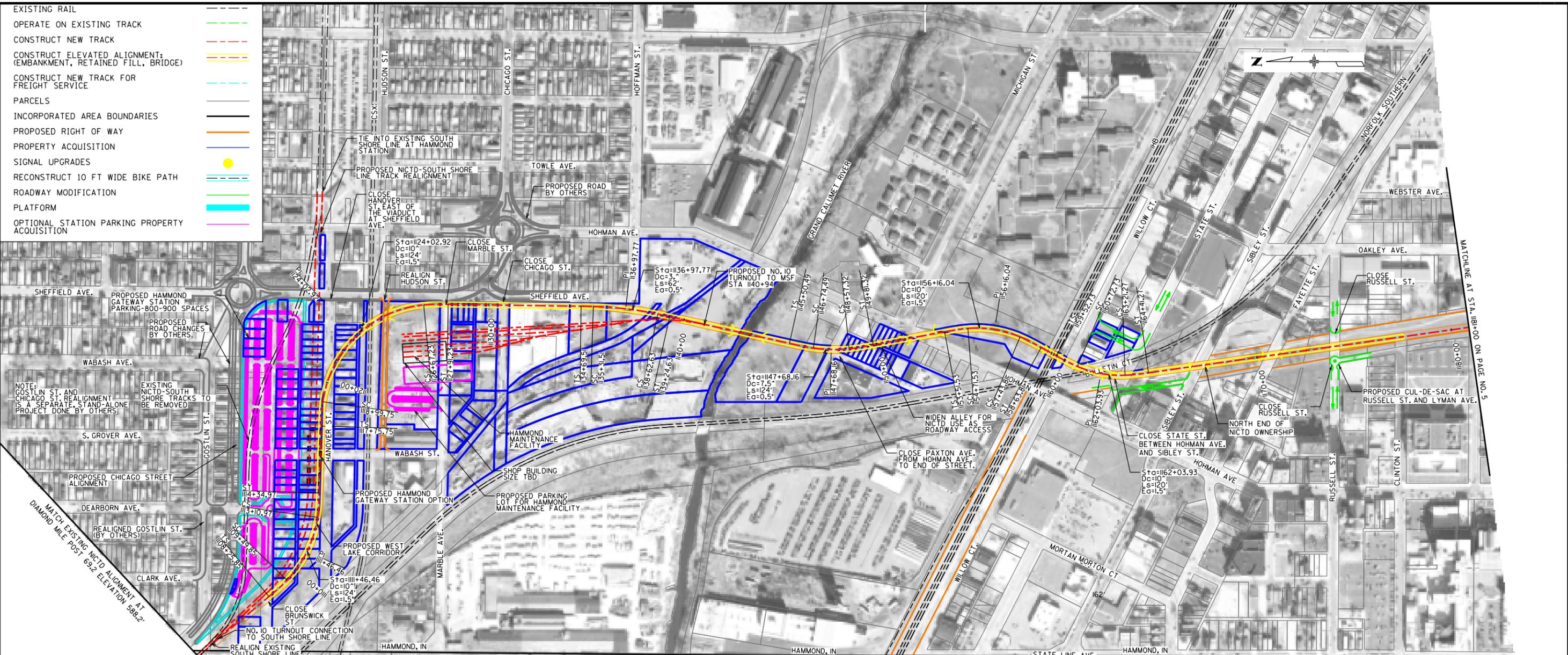


**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 COMMUTER RAIL ALTERNATIVE/
 IHB ALTERNATIVE OPTION 4**

PROJECT ID: 7801.1
 PAGE NO.: 18

NEPA PREFERRED ALTERNATIVE

HAMMOND ALTERNATIVE



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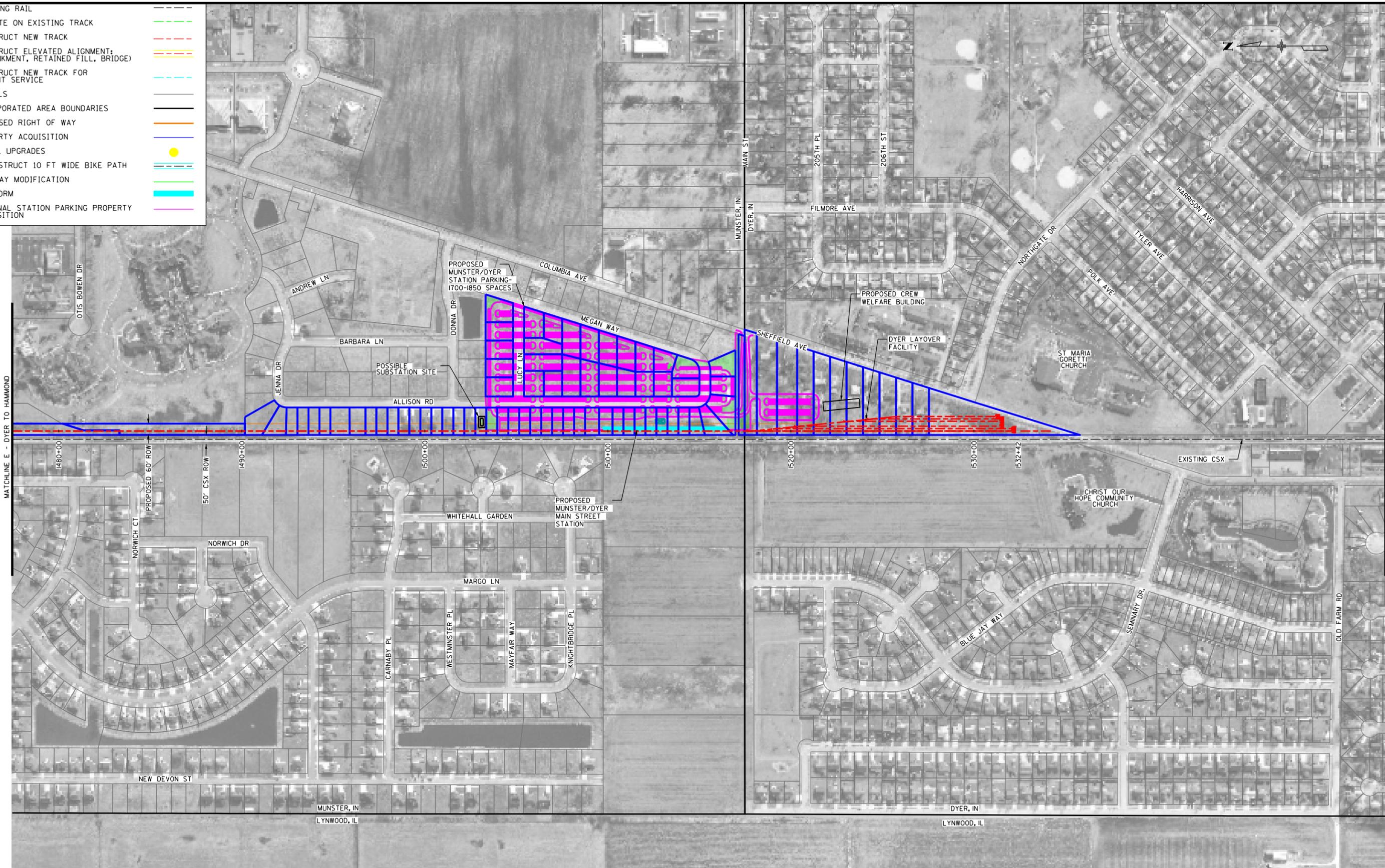
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 NEPA PREFERRED ALTERNATIVE
 HAMMOND ALTERNATIVE**

PROJECT ID: 7801.1
 PAGE NO.: 20

- EXISTING RAIL ---
- OPERATE ON EXISTING TRACK ---
- CONSTRUCT NEW TRACK ---
- CONSTRUCT ELEVATED ALIGNMENT: (EMBANKMENT, RETAINED FILL, BRIDGE) ---
- CONSTRUCT NEW TRACK FOR FREIGHT SERVICE ---
- PARCELS ---
- INCORPORATED AREA BOUNDARIES ---
- PROPOSED RIGHT OF WAY ---
- PROPERTY ACQUISITION ---
- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



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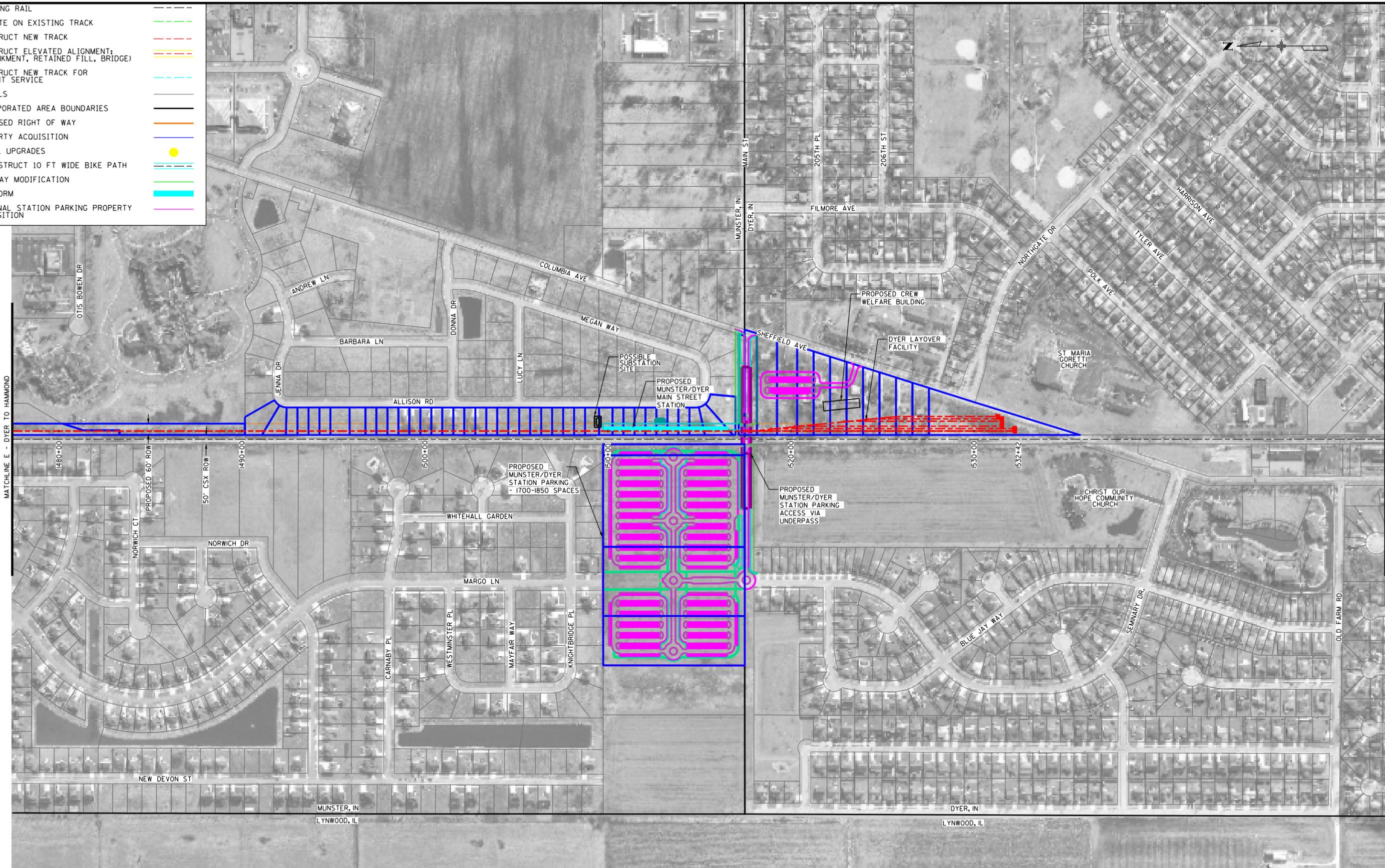
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**NICTD WEST LAKE CORRIDOR
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 HAMMOND ALTERNATIVE
 OPTION 1**

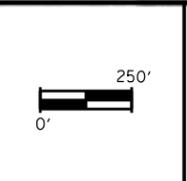
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- PROPERTY ACQUISITION ---
- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



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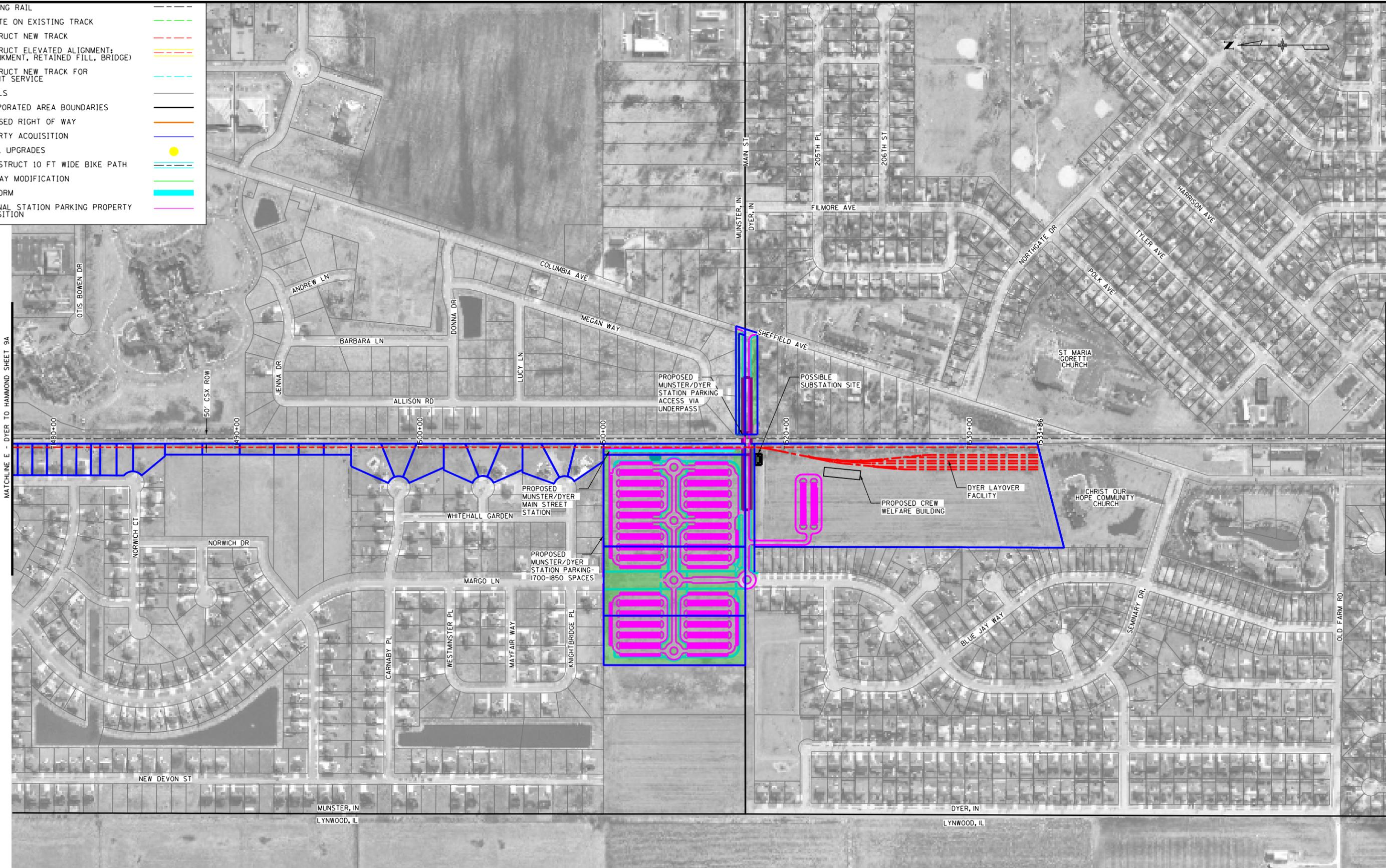
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 NEPA PREFERRED ALTERNATIVE
 HAMMOND ALTERNATIVE OPTION 2**

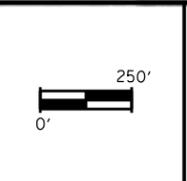
PROJECT ID: 7801 1
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- CONSTRUCT NEW TRACK ---
- CONSTRUCT ELEVATED ALIGNMENT: (EMBANKMENT, RETAINED FILL, BRIDGE) ---
- CONSTRUCT NEW TRACK FOR FREIGHT SERVICE ---
- PARCELS ---
- INCORPORATED AREA BOUNDARIES ---
- PROPOSED RIGHT OF WAY ---
- PROPERTY ACQUISITION ---
- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



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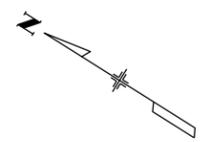


**NICTD WEST LAKE CORRIDOR
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 DESIGN PLANS
 HAMMOND ALTERNATIVE
 OPTION 3**

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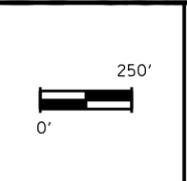
INDIANA HARBOR BELT ALTERNATIVE

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- CONSTRUCT NEW TRACK ---
- CONSTRUCT ELEVATED ALIGNMENT: (EMBANKMENT, RETAINED FILL, BRIDGE) ---
- CONSTRUCT NEW TRACK FOR FREIGHT SERVICE ---
- PARCELS ---
- INCORPORATED AREA BOUNDARIES ---
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- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



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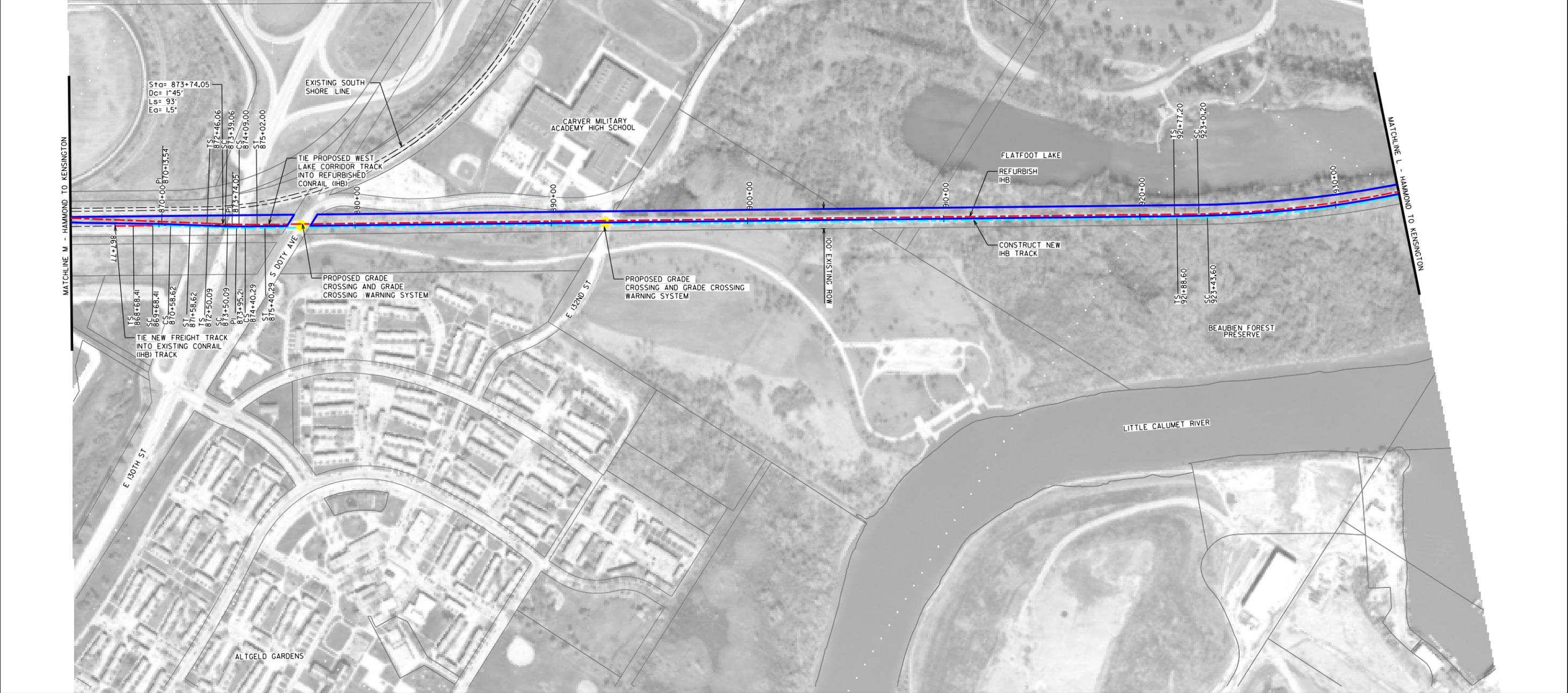
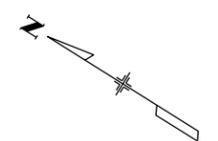
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 INDIANA HARBOR BELT ALTERNATIVE**

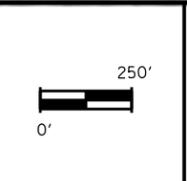
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 PAGE NO.: 26

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- CONSTRUCT NEW TRACK ---
- CONSTRUCT ELEVATED ALIGNMENT: (EMBANKMENT, RETAINED FILL, BRIDGE) ---
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- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



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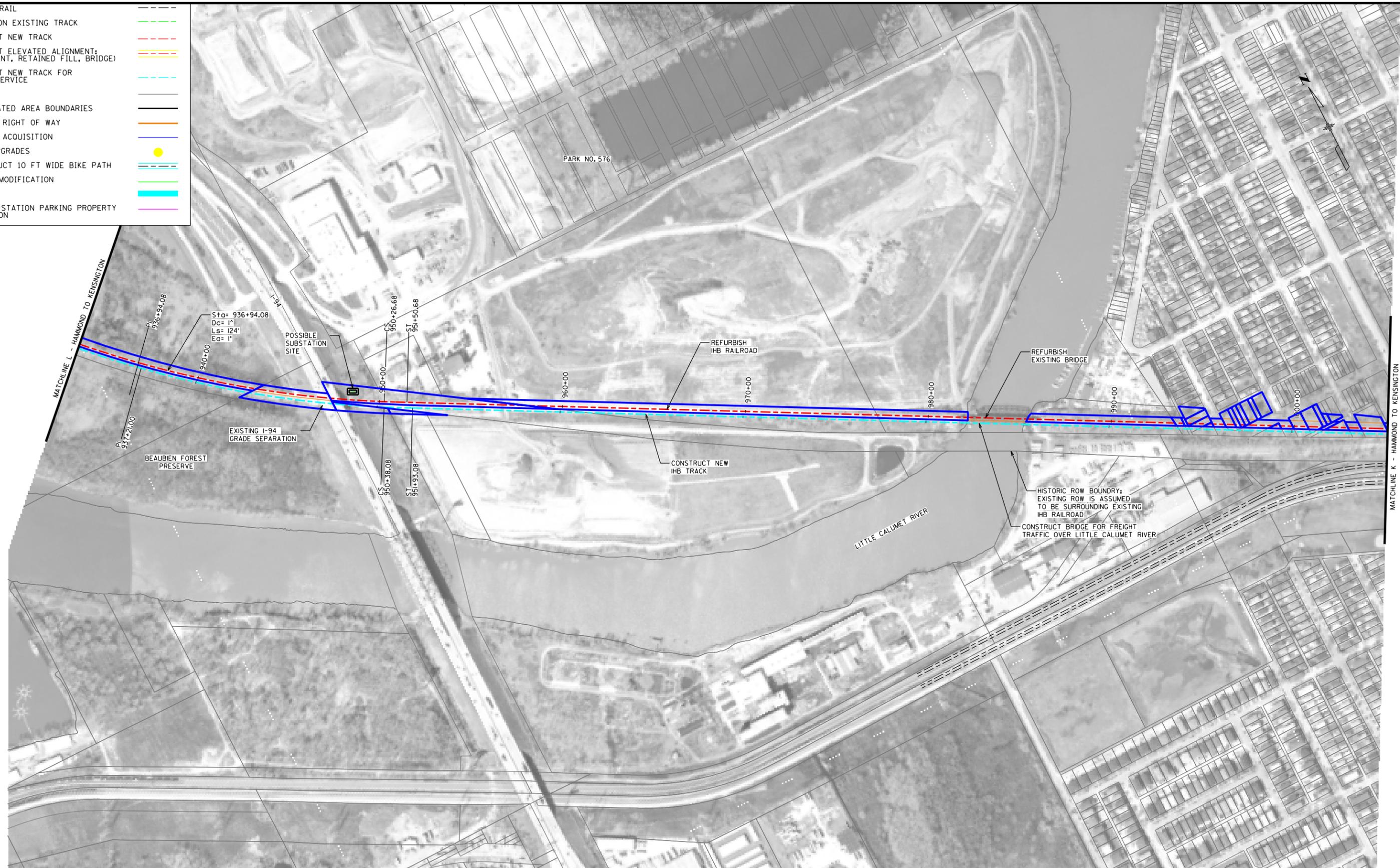
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 INDIANA HARBOR BELT ALTERNATIVE**

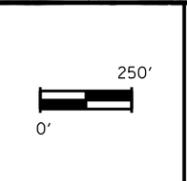
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- CONSTRUCT NEW TRACK ---
- CONSTRUCT ELEVATED ALIGNMENT: (EMBANKMENT, RETAINED FILL, BRIDGE) ---
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- SIGNAL UPGRADES ●
- RECONSTRUCT 10 FT WIDE BIKE PATH ---
- ROADWAY MODIFICATION ---
- PLATFORM ---
- OPTIONAL STATION PARKING PROPERTY ACQUISITION ---



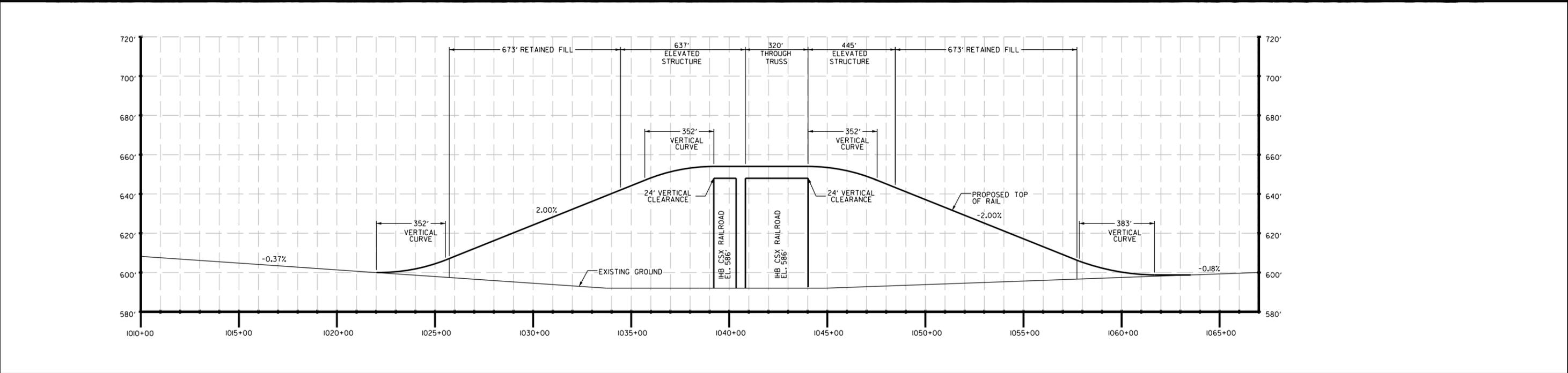
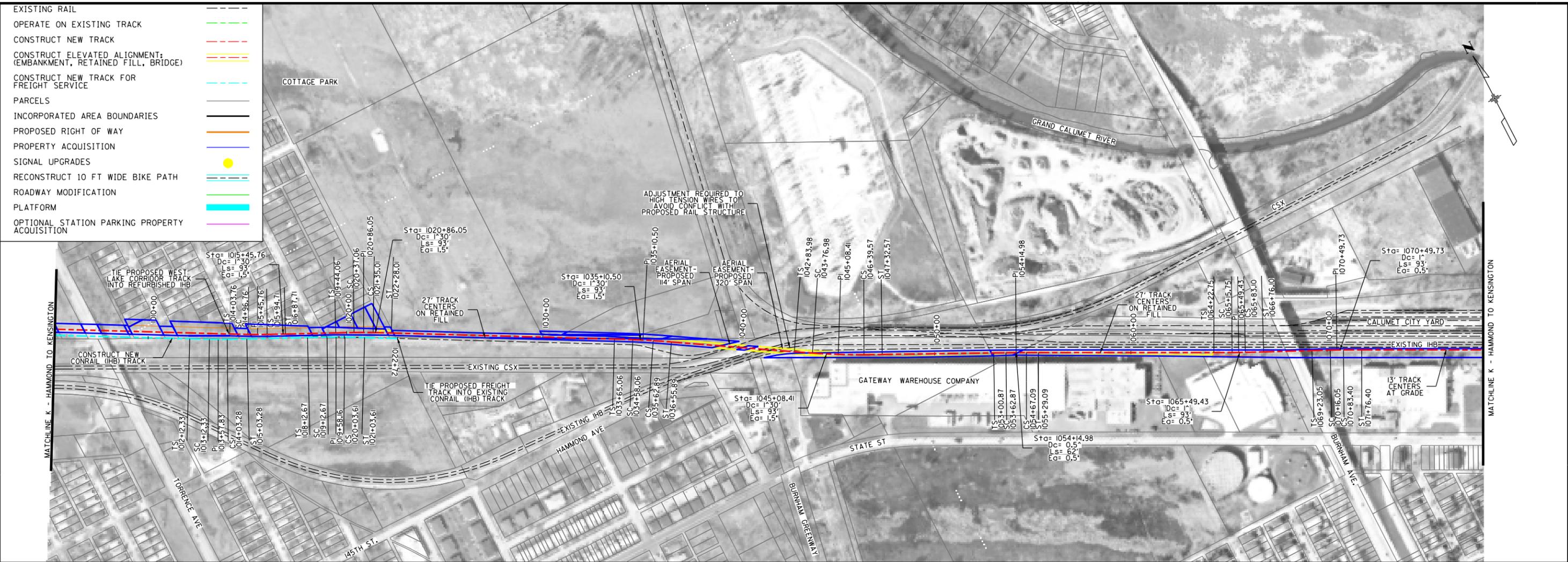
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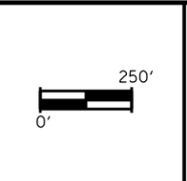


**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 INDIANA HARBOR BELT ALTERNATIVE**

PROJECT ID: 7801.1
 PAGE NO.: 28



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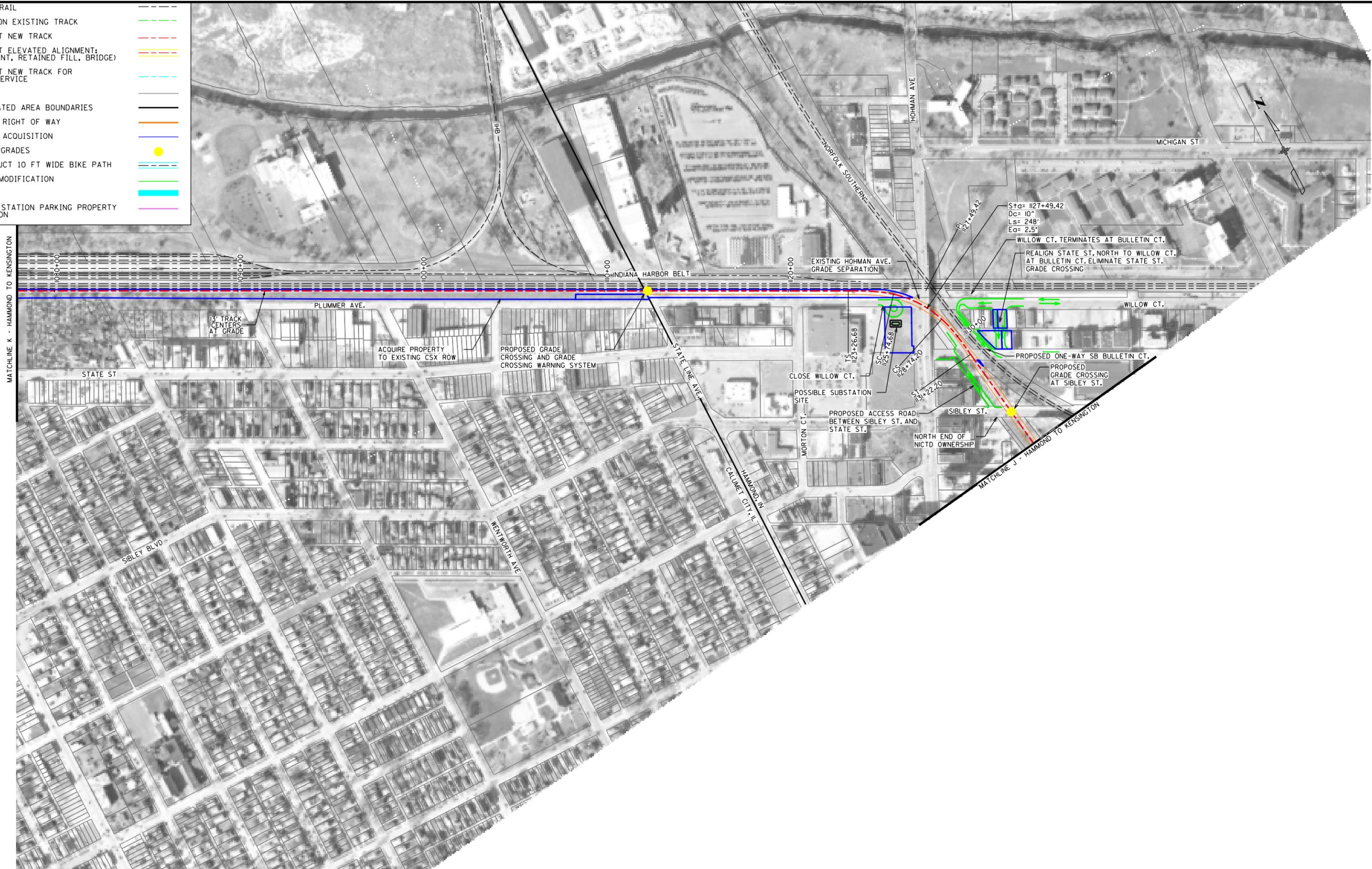


**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
INDIANA HARBOR BELT ALTERNATIVE**

PROJECT ID	7801 1
PAGE NO.	29

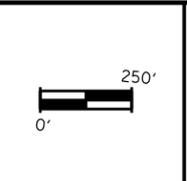
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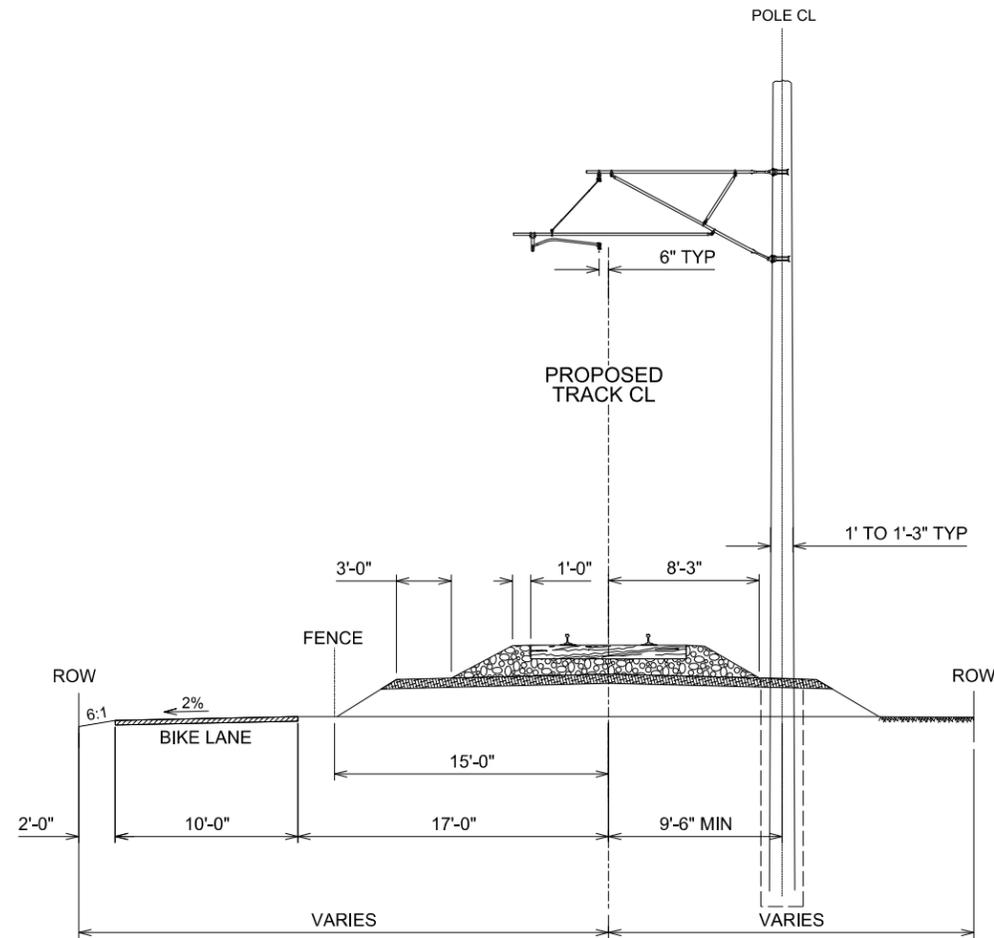
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**NICTD WEST LAKE CORRIDOR
 PROJECT DRAFT CONCEPTUAL
 DESIGN PLANS
 INDIANA HARBOR BELT ALTERNATIVE**

PROJECT ID: 7801.1
 PAGE NO.: 30

TYPICAL SECTIONS



CONSTRAINED SINGLE TRACK WITH BIKE LANE AT GRADE
(LOOKING SOUTH)

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. TOP OF RAIL ELEVATION 4'-6" MAX; EMBANKMENT VARIES FROM 0 TO 2'-0" MAX



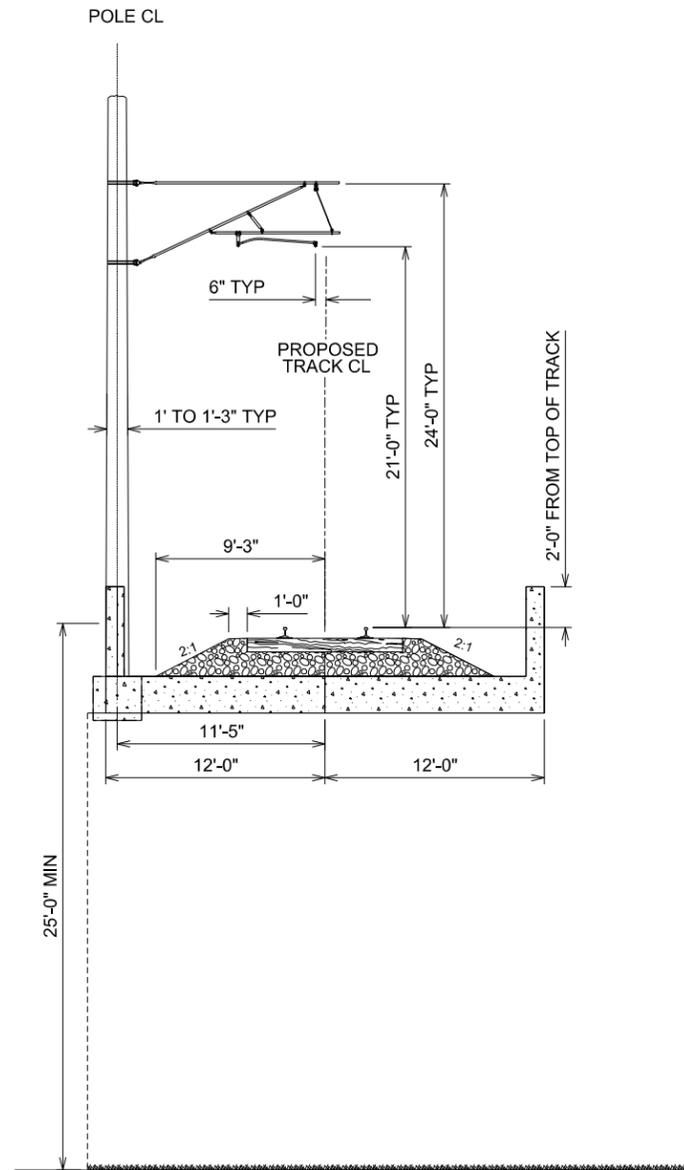
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**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
TYPICAL SECTIONS**

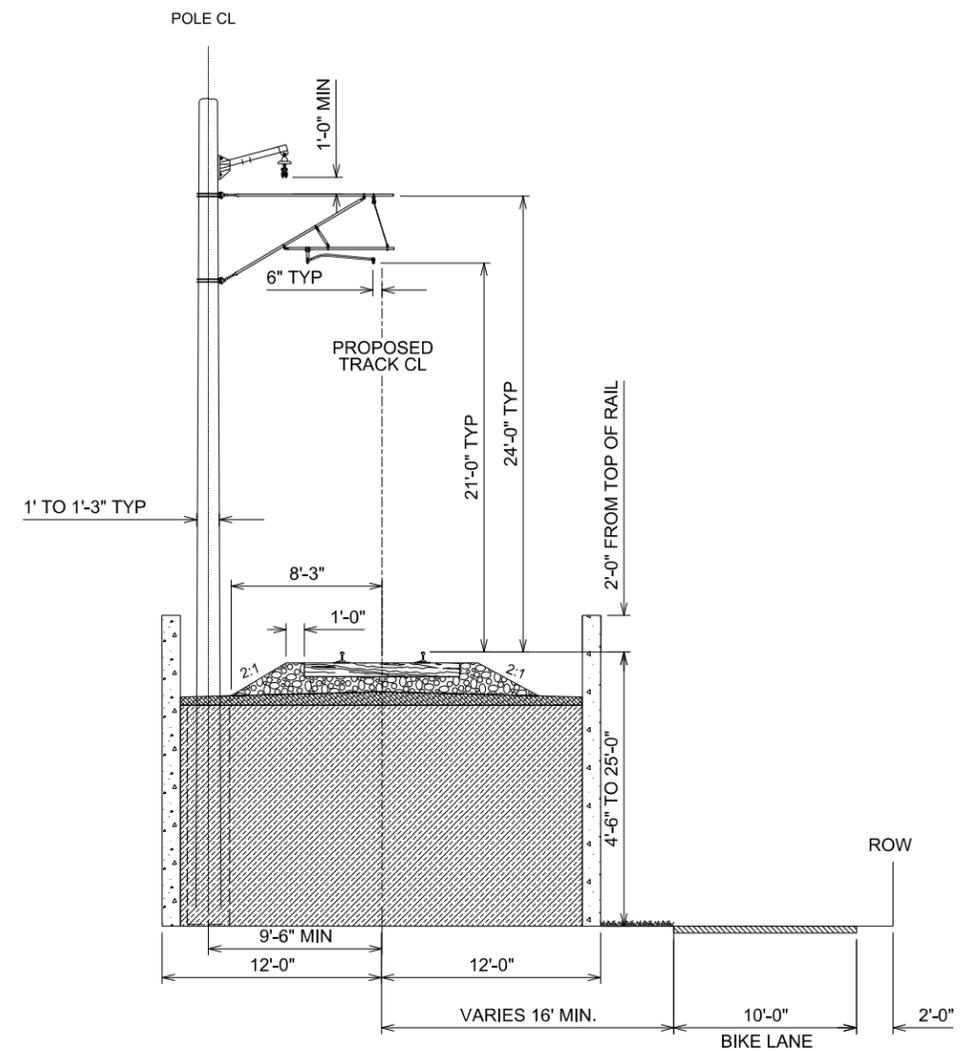
PROJECT ID	7801 1
PAGE NO.	
SCALE:	NTS
SHEET NO.	1 OF 7



TRACK ON ELEVATED STRUCTURE
(LOOKING SOUTH)

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 16" OF BALLAST UNDER TIE



TRACK ON RETAINED FILL WITH EXISTING BIKE PATH
(LOOKING SOUTH)

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE

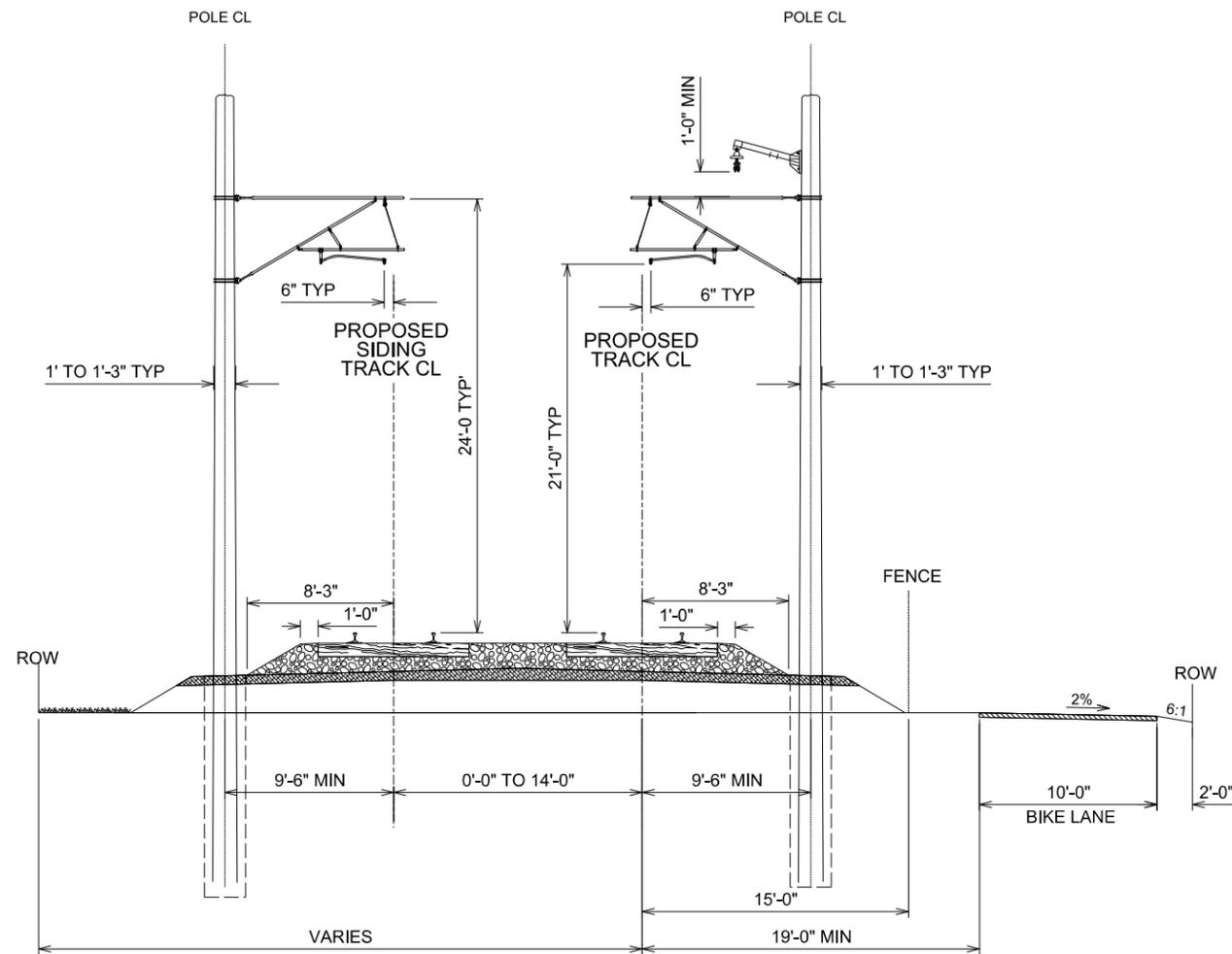


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**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
TYPICAL SECTIONS**

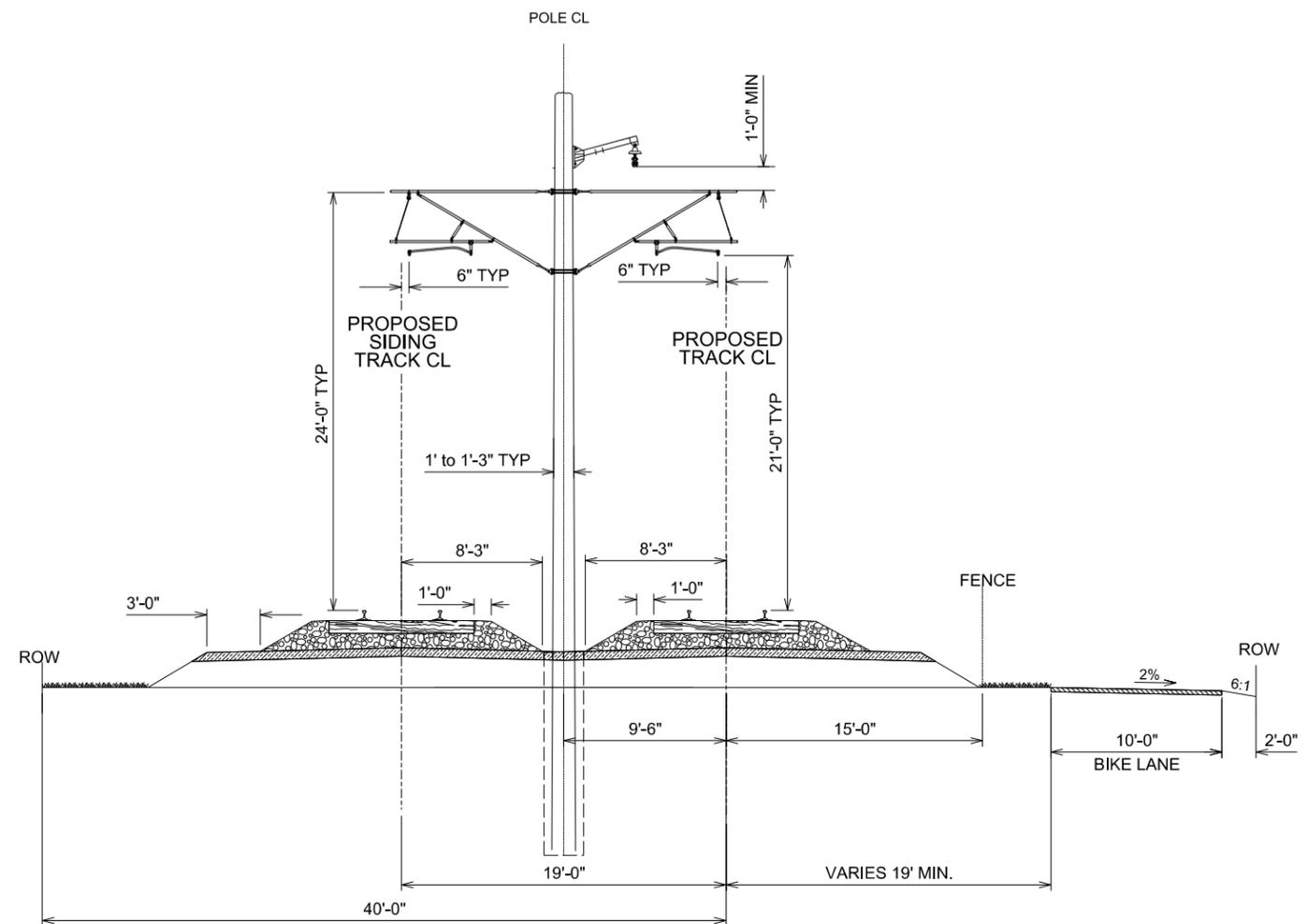
PROJECT ID	7801 1
PAGE NO.	
SCALE:	NTS
SHEET NO.	2 OF 7



**SIDING TURNOUT WITH BIKE LANE AT GRADE
(LOOKING SOUTH)**

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. TOP OF RAIL ELEVATION 4'-6" MAX; EMBANKMENT VARIES FROM 0 TO 2'-0" MAX
6. SUB-BALLAST SHOULDER = 3'-0"



**TRACK SECTION WITH SIDING TRACK AND BIKE LANE
(LOOKING SOUTH)**

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. TOP OF RAIL ELEVATION 4'-6" MAX; EMBANKMENT VARIES FROM 0 TO 2'-0" MAX



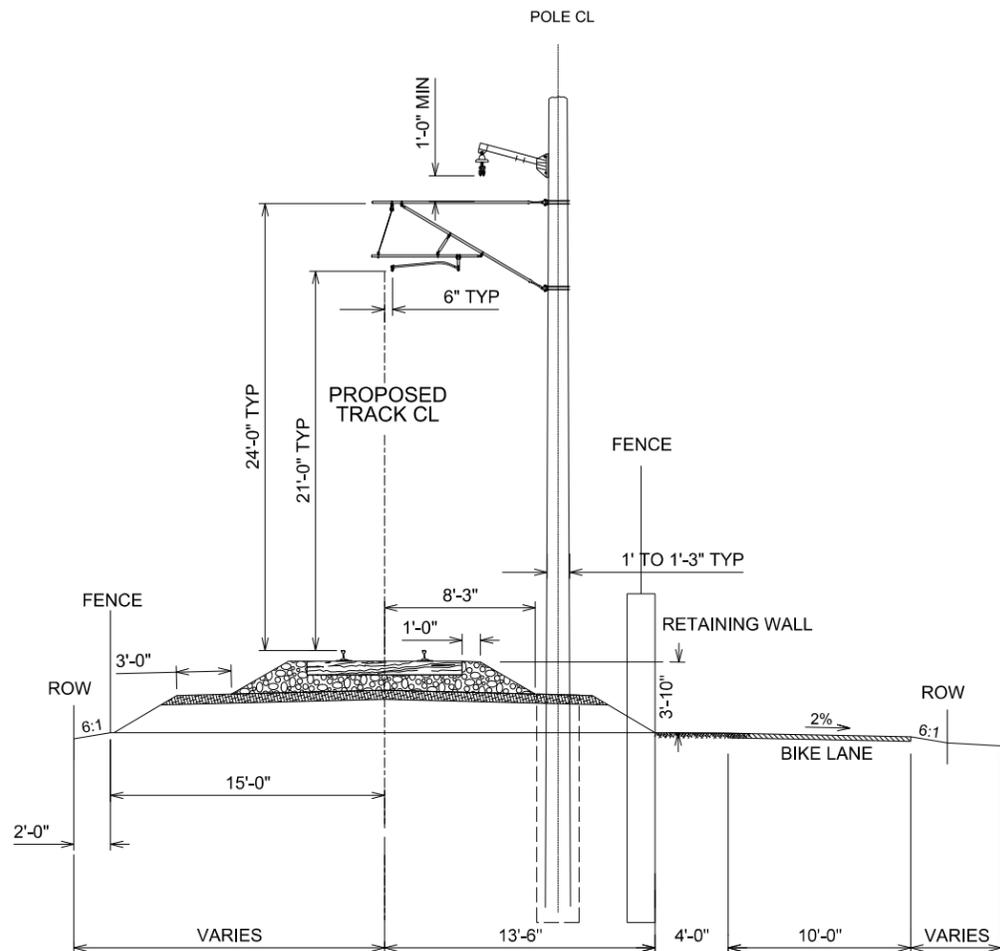
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**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
TYPICAL SECTIONS**

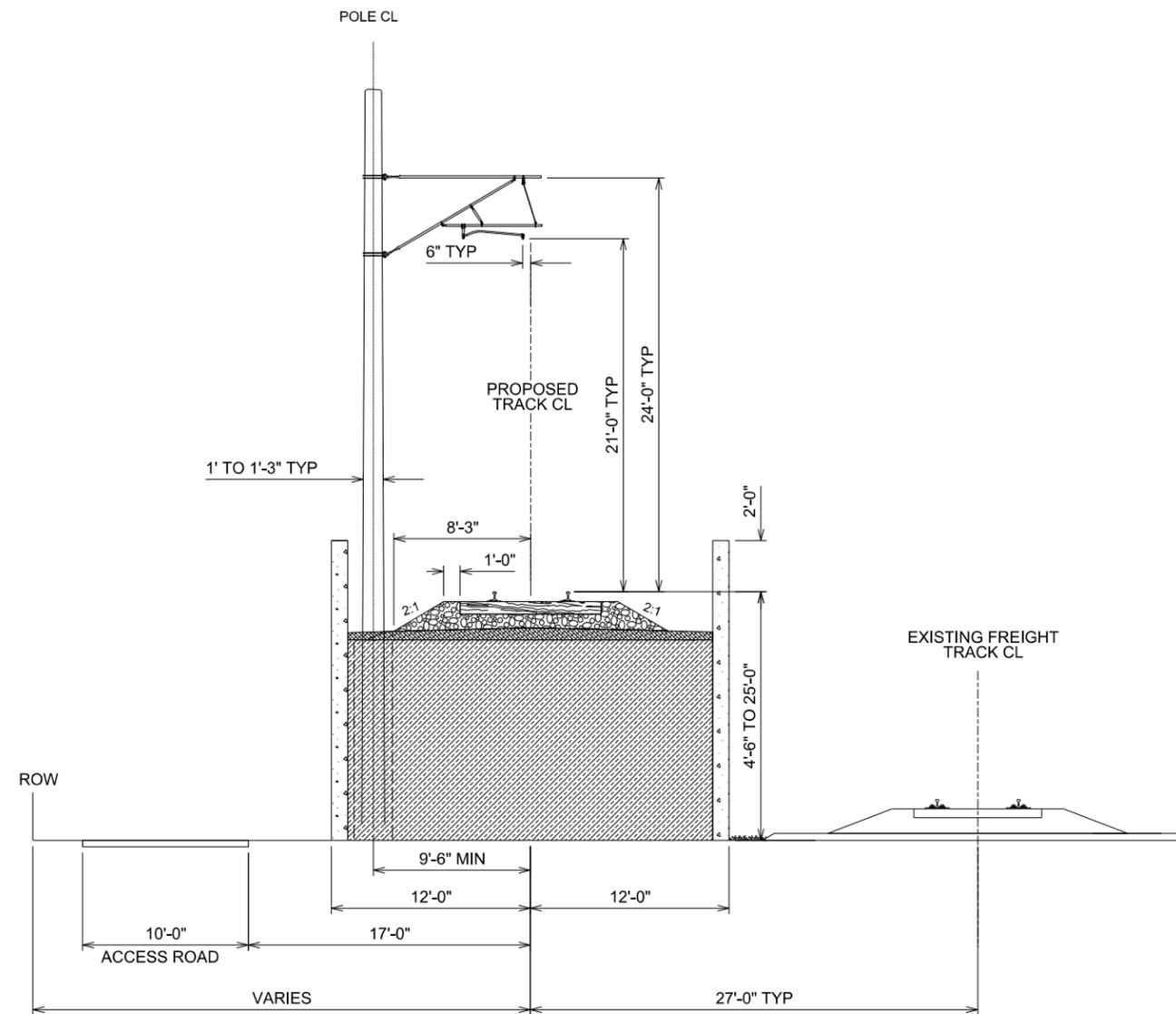
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PAGE NO.	
SCALE:	NTS
SHEET NO.	3 OF 7



**SINGLE TRACK WITH BIKE LANE AT GRADE
(LOOKING SOUTH)**

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. TOP OF RAIL ELEVATION 4'-6" MAX; EMBANKMENT VARIES FROM 0 TO 2'-0" MAX



**TRACK ON RETAINED FILL ADJACENT TO EXISTING FREIGHT TRACK
(LOOKING SOUTH)**

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE



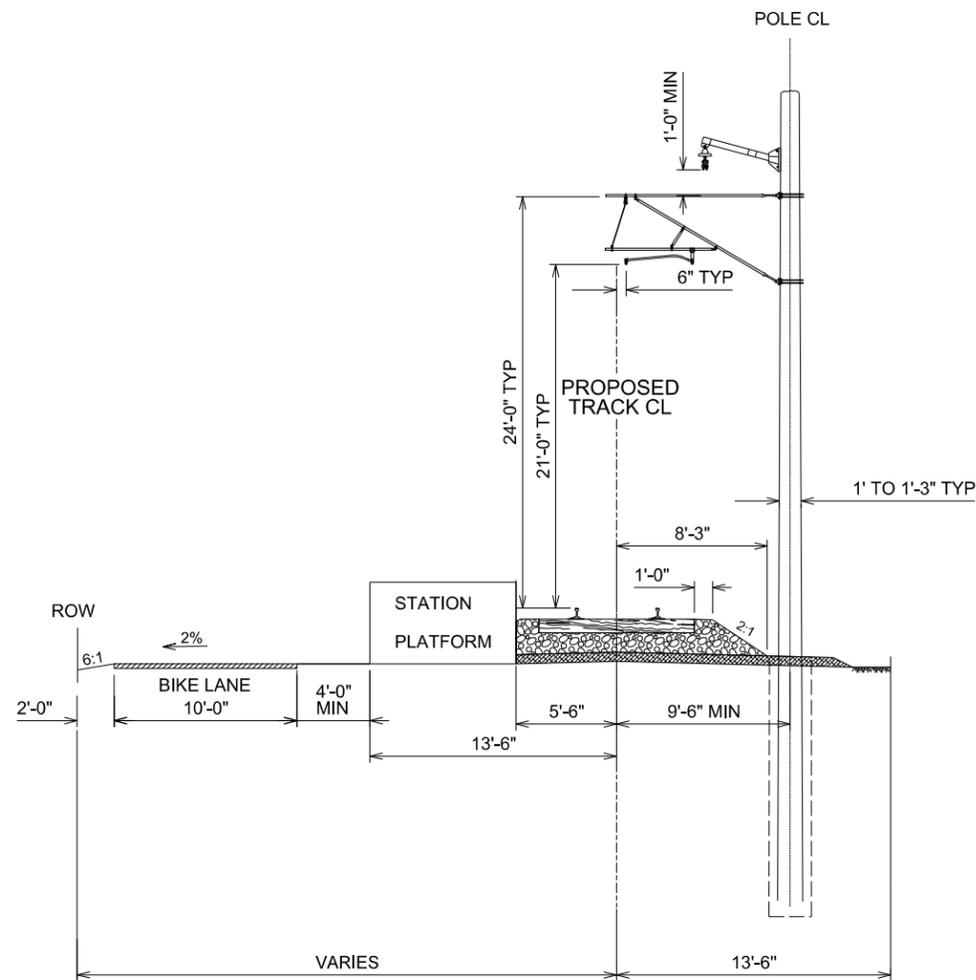
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**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
TYPICAL SECTIONS**

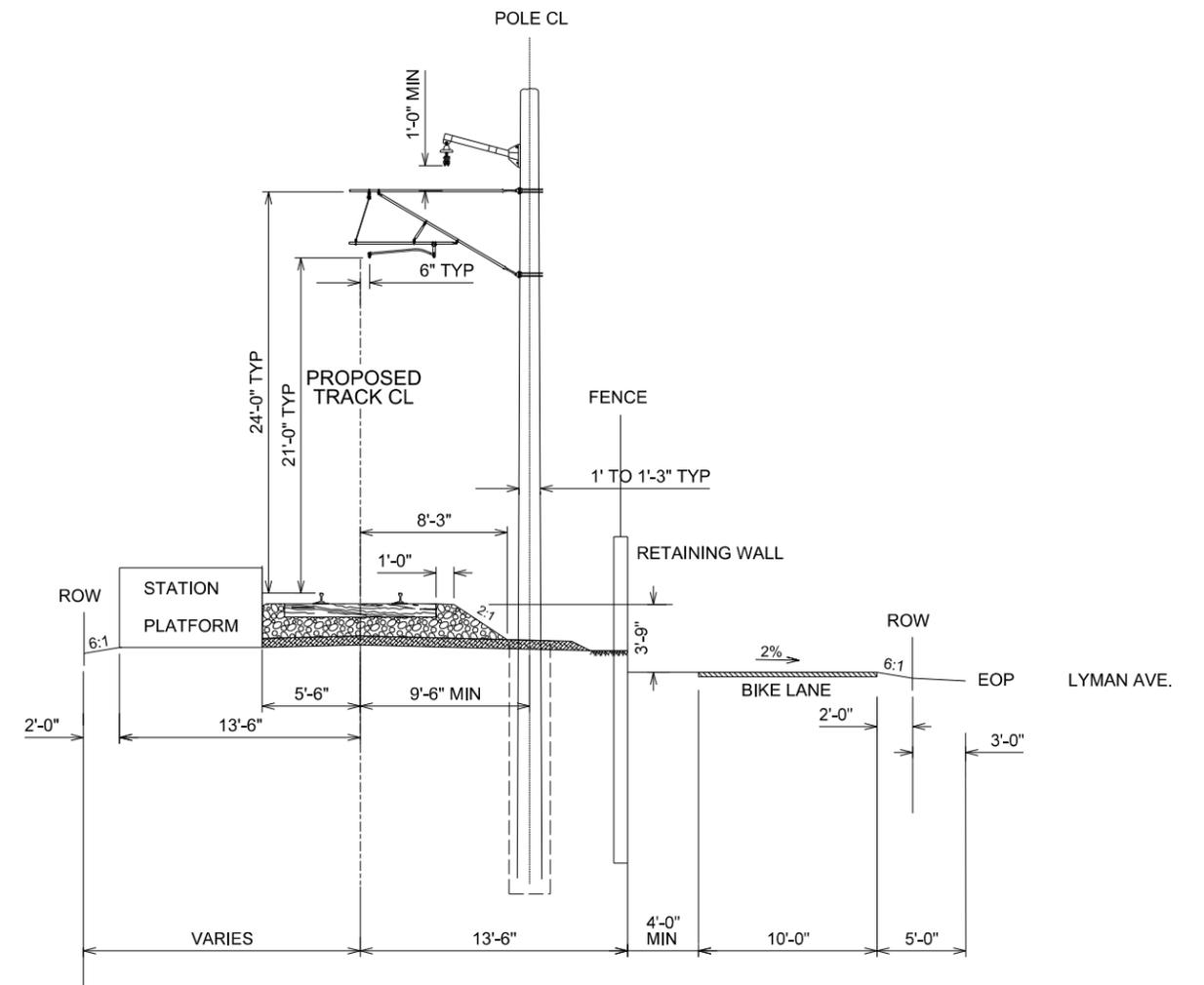
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PAGE NO.	
SCALE:	NTS
SHEET NO.	4 OF 7



SINGLE TRACK SECTION WITH STATION AND PROPOSED BIKE LANE
(LOOKING SOUTH)

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. SUB-BALLAST SHOULDER 3'-0" WIDE
6. PUSH OFF/PULL OFF CANTILEVER BASED ON OCS WIRING LAYOUT AND STAGGER



SINGLE TRACK SECTION WITH STATION AND PROPOSED BIKE LANE
WITH RETAINING WALL
(LOOKING SOUTH)

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. SUB-BALLAST SHOULDER 3'-0" WIDE
6. PUSH OFF/PULL OFF CANTILEVER BASED ON OCS WIRING LAYOUT AND STAGGER

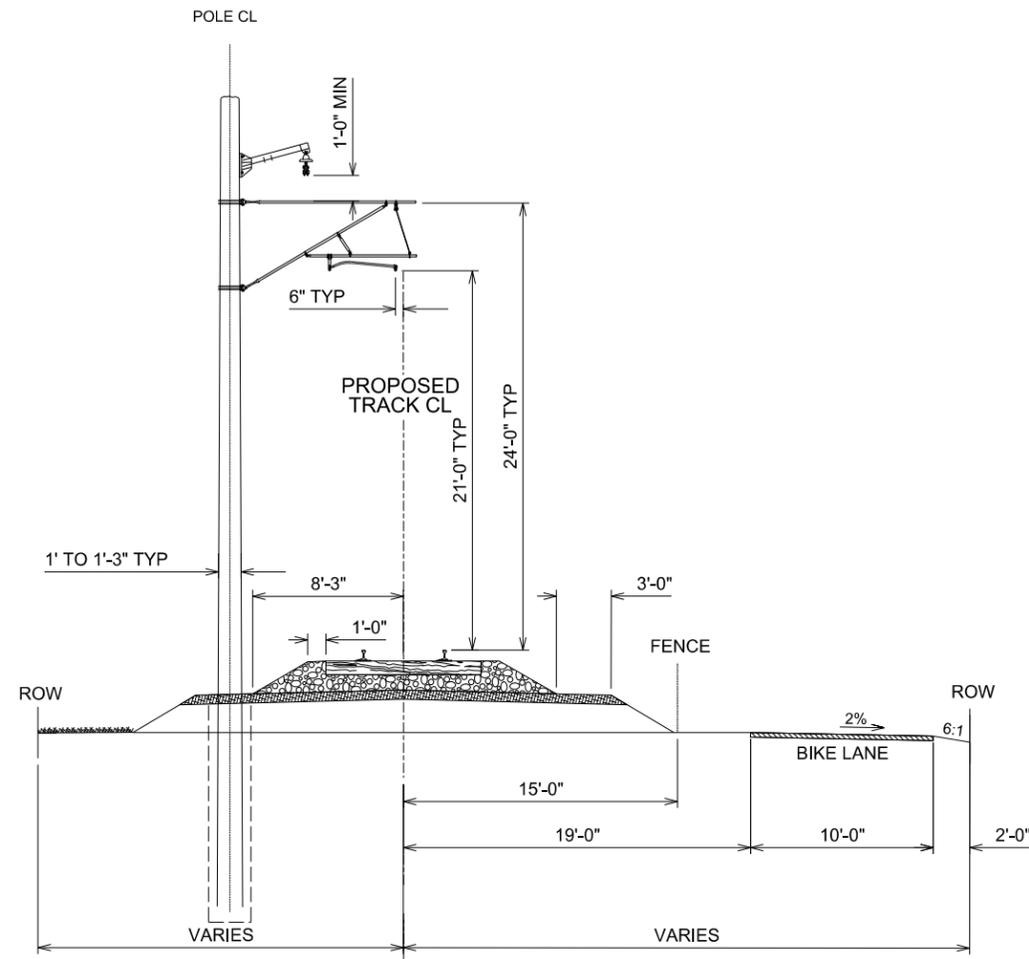


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**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
TYPICAL SECTIONS**

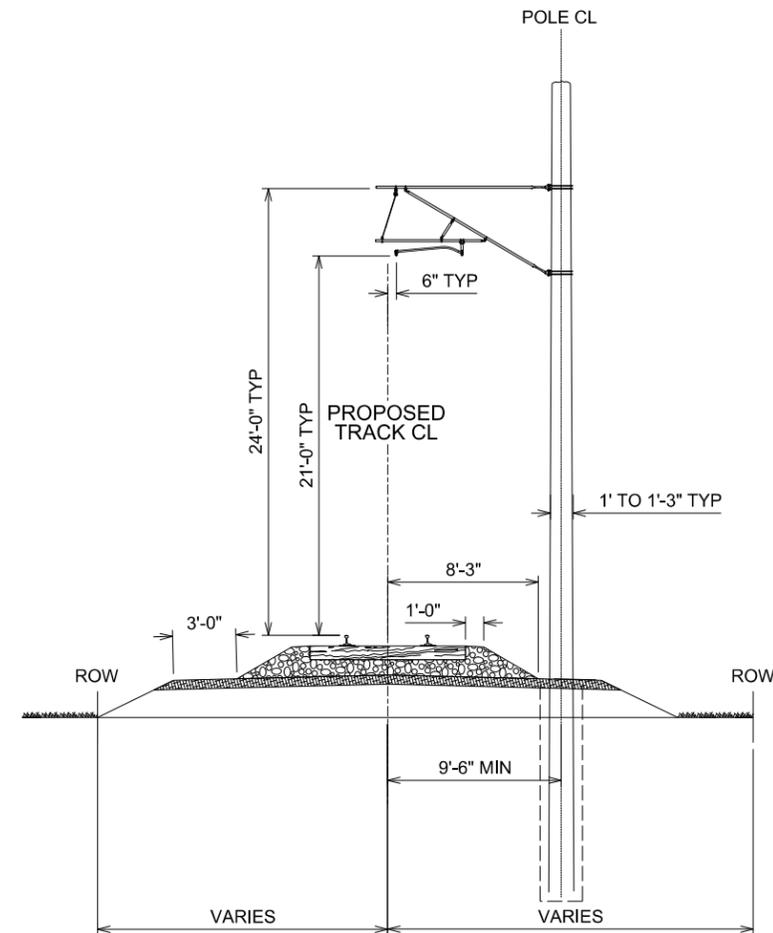
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PAGE NO.	
SCALE:	NTS
SHEET NO.	6 OF 7



**SINGLE TRACK WITH BIKE LANE AT GRADE
(LOOKING SOUTH)**

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. TOP OF RAIL ELEVATION 4'-6" MAX; EMBANKMENT VARIES FROM 0 TO 2'-0" MAX



**SINGLE TRACK AT GRADE
(LOOKING SOUTH)**

NOTES:

1. 8'-6" WIDE TIMBER TIES 7" THICK
2. MINIMUM 10" OF BALLAST UNDER TIE
3. MINIMUM 6" OF SUB-BALLAST UNDER BALLAST LAYER WITH TOE OF SUB-BALLAST 12'-3" FROM TRACK CENTER LINE
4. SUB-BALLAST HAS 2.5% SLOPE FROM CENTER LINE OF TRACK ON BOTH SIDES FOR DRAINAGE
5. TOP OF RAIL ELEVATION 4'-6" MAX; EMBANKMENT VARIES FROM 0 TO 2'-0" MAX



REV	DATE	BY	APP.	DESCRIPTION

DESIGNED:	SP
DRAWN:	SP
CHECKED:	MNL
APPROVED:	WRM
DATE:	12/6/2016



**NICTD WEST LAKE CORRIDOR
PROJECT DRAFT CONCEPTUAL
DESIGN PLANS
TYPICAL SECTIONS**

PROJECT ID	7801 1
PAGE NO.	
SCALE:	NTS
SHEET NO.	7 OF 7