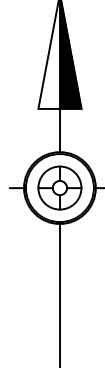


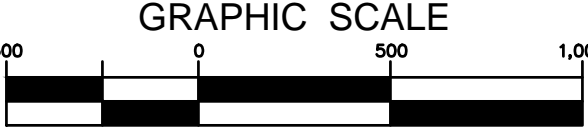
PREPARED BY:  
**LANCASTER CIVIL ENGINEERING COMPANY**  
*PO Box 8972, Lancaster, PA 17604*  
*bencraddock@lanastercivil.com | 717-799-8599*  
*www.lancastercivil.com*

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DRAWN BY: BSC  
CHECKED BY:

PLAN DATE: APRIL 23, 2018  
DWG FILE: 2018-04-23 - ETOWN CONCEPT.DWG

SEAL

NORTH ARROW  


SCALE  
  
(IN FEET)  
1 INCH = 500 FT.



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E. WILLOW STREET:	SHEET C-101
S. MOUNT JOY STREET:	SHEET C-102
GROFF AVENUE:	SHEET C-103
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E. WILLOW STREET:	SHEET C-201
S. MOUNT JOY ST./CEDAR ST:	SHEET C-202
S. MOUNT JOY ST./RIDGE RD AND GROFF AVE:	SHEET C-202
GROFF AVENUE:	SHEET C-204



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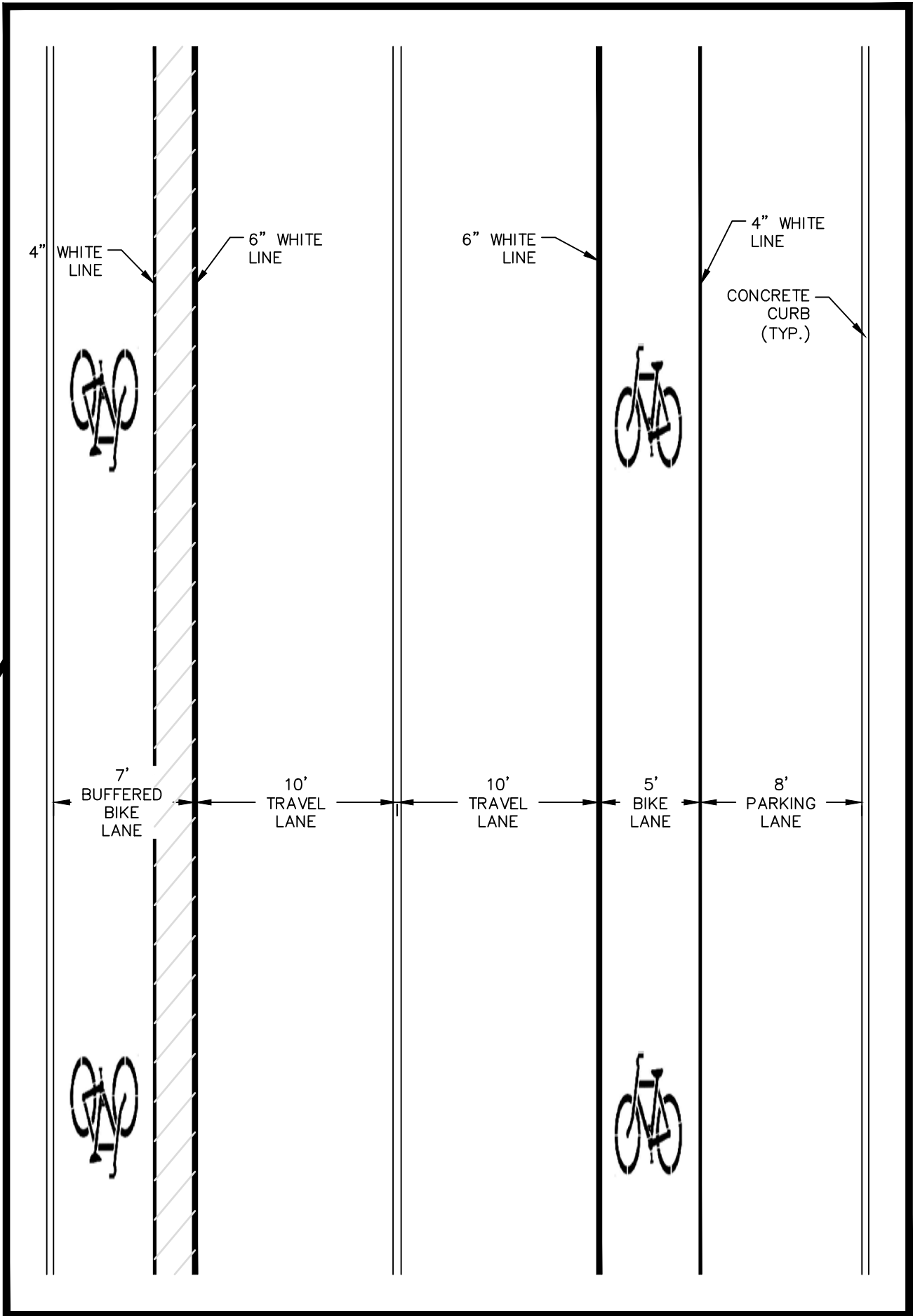
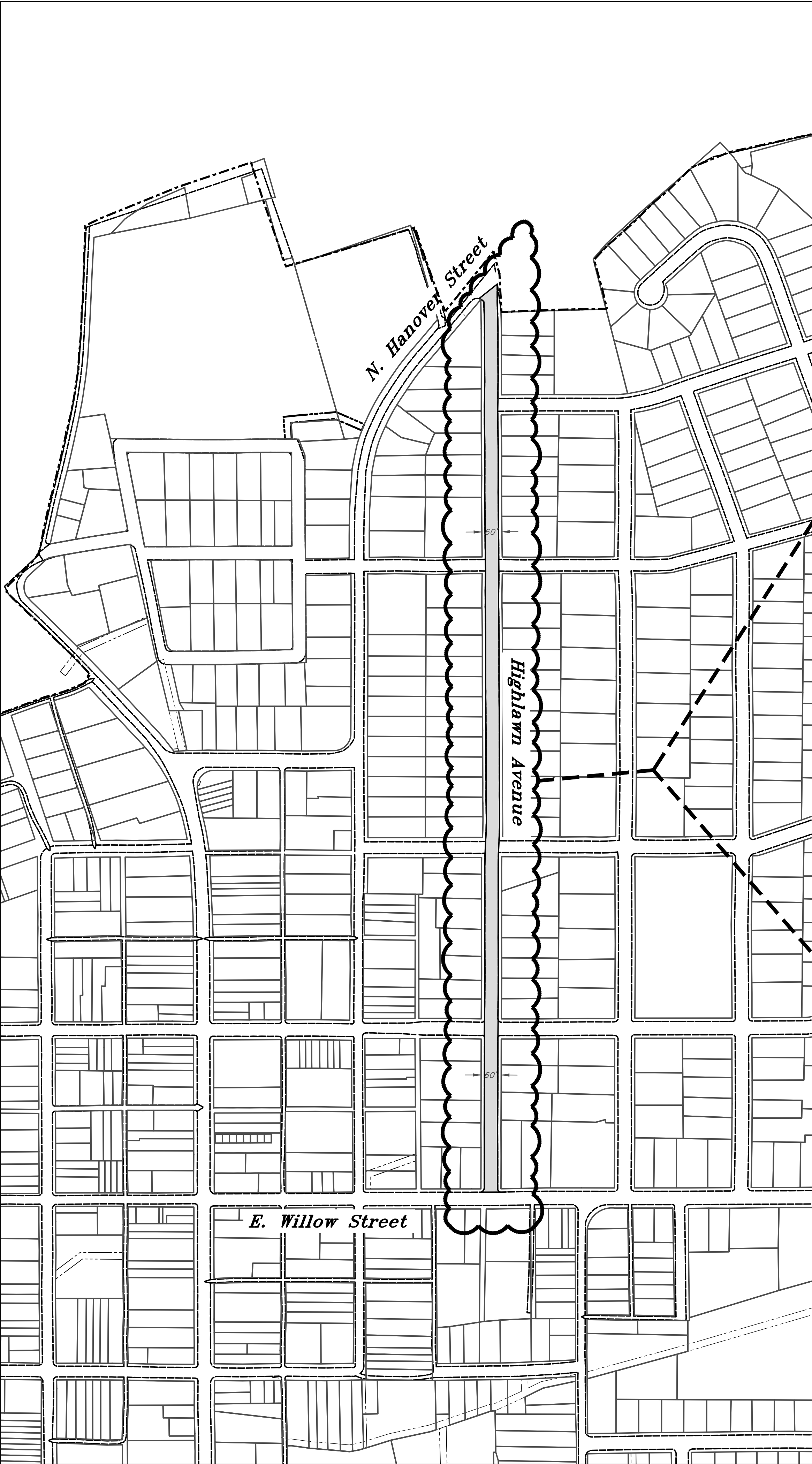
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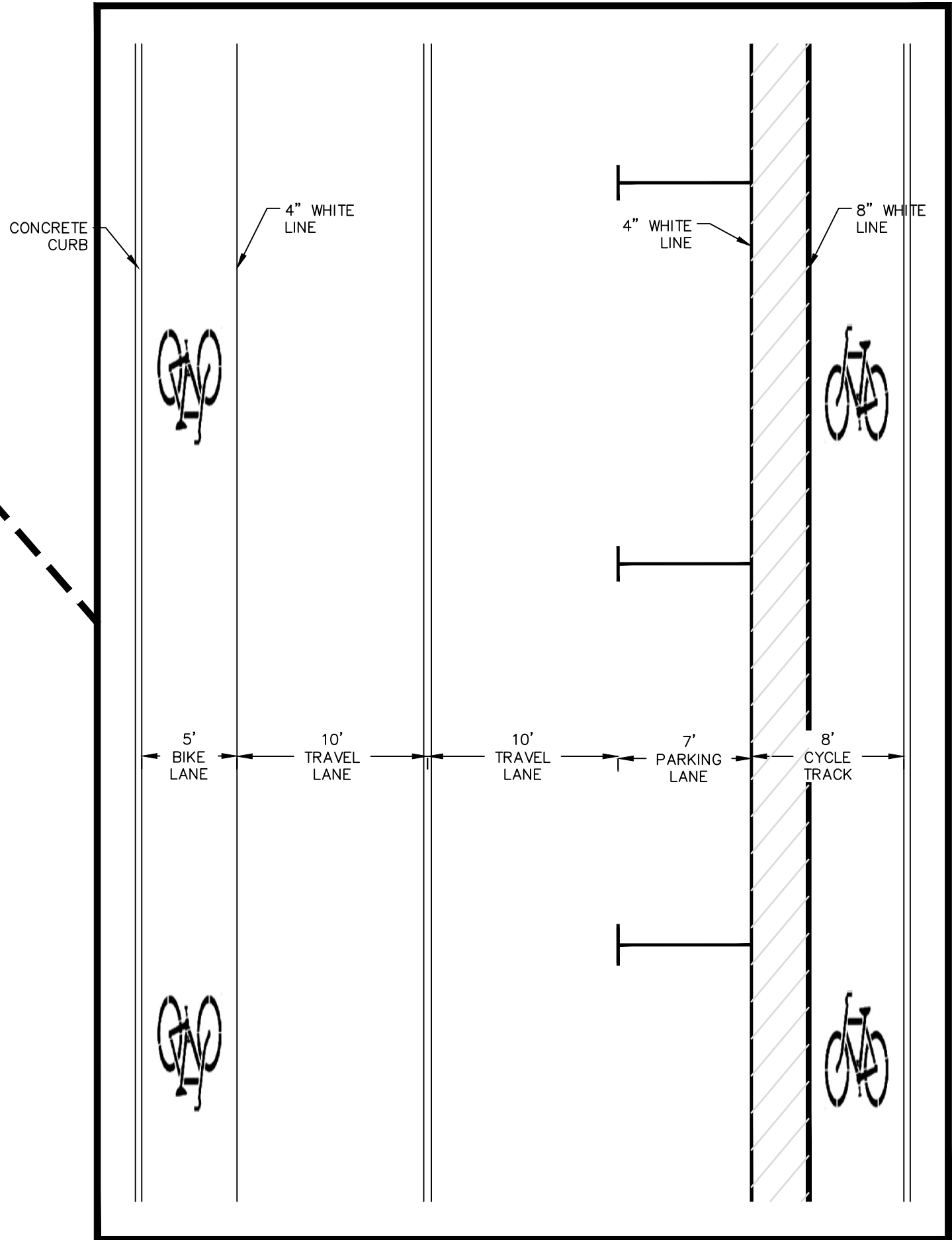
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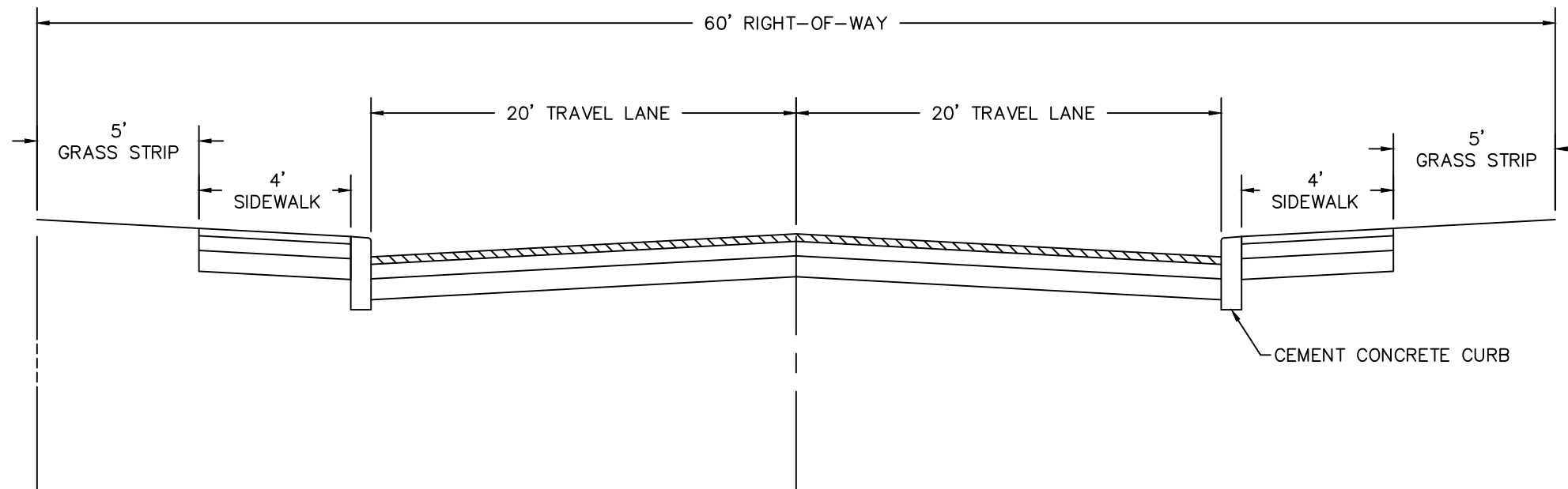
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1 INCH = 200 FT.



OPTION 1: ONE COMBINATION PARKING/BIKE LANE  
ONE BUFFERED BIKE LANE



OPTION 2: ONE PROTECTED BIKE LANE (CYCLE TRACK)  
ONE STANDARD BIKE LANE



EXISTING STREET CROSS SECTION  
HIGHLAWN AVENUE

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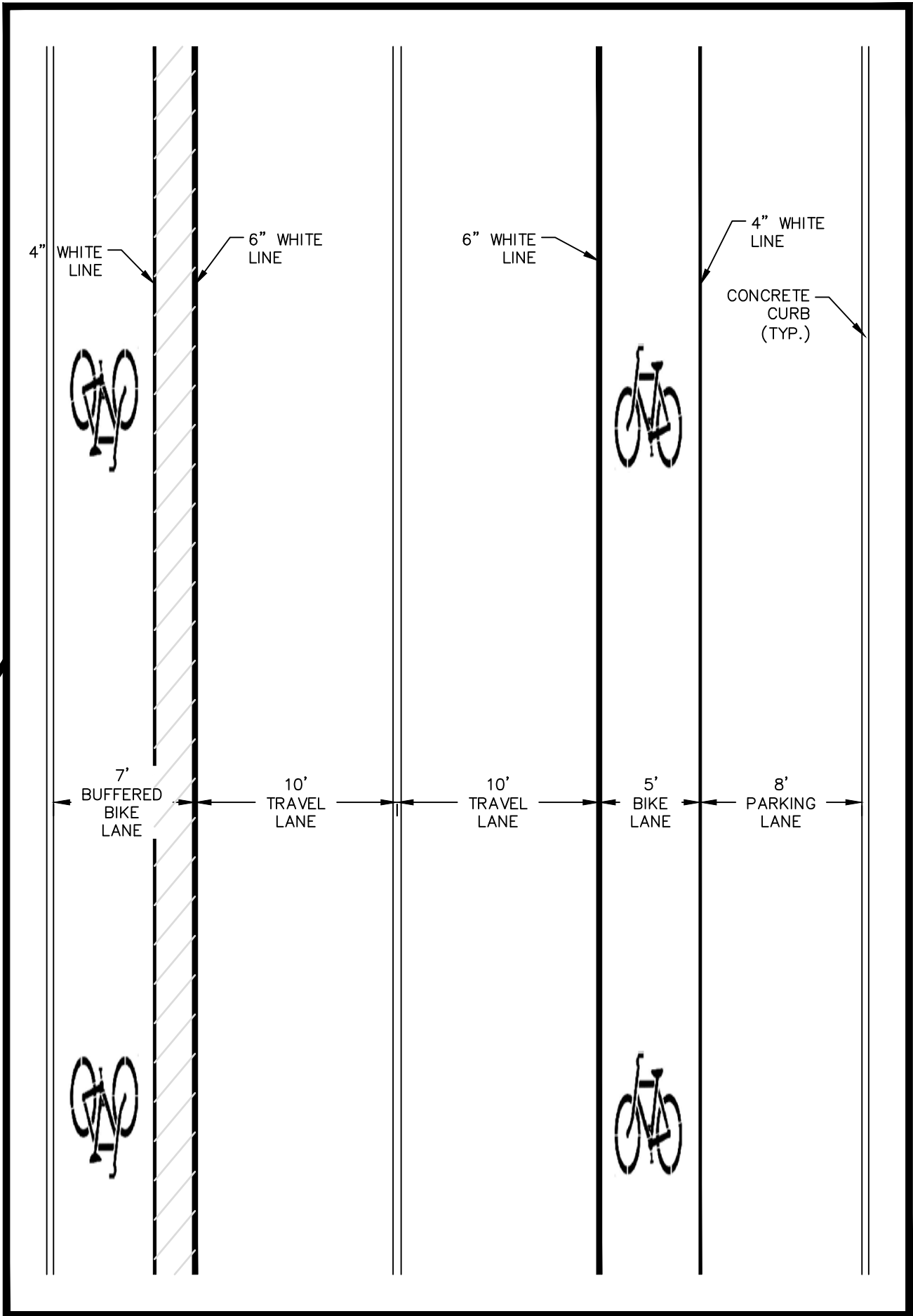
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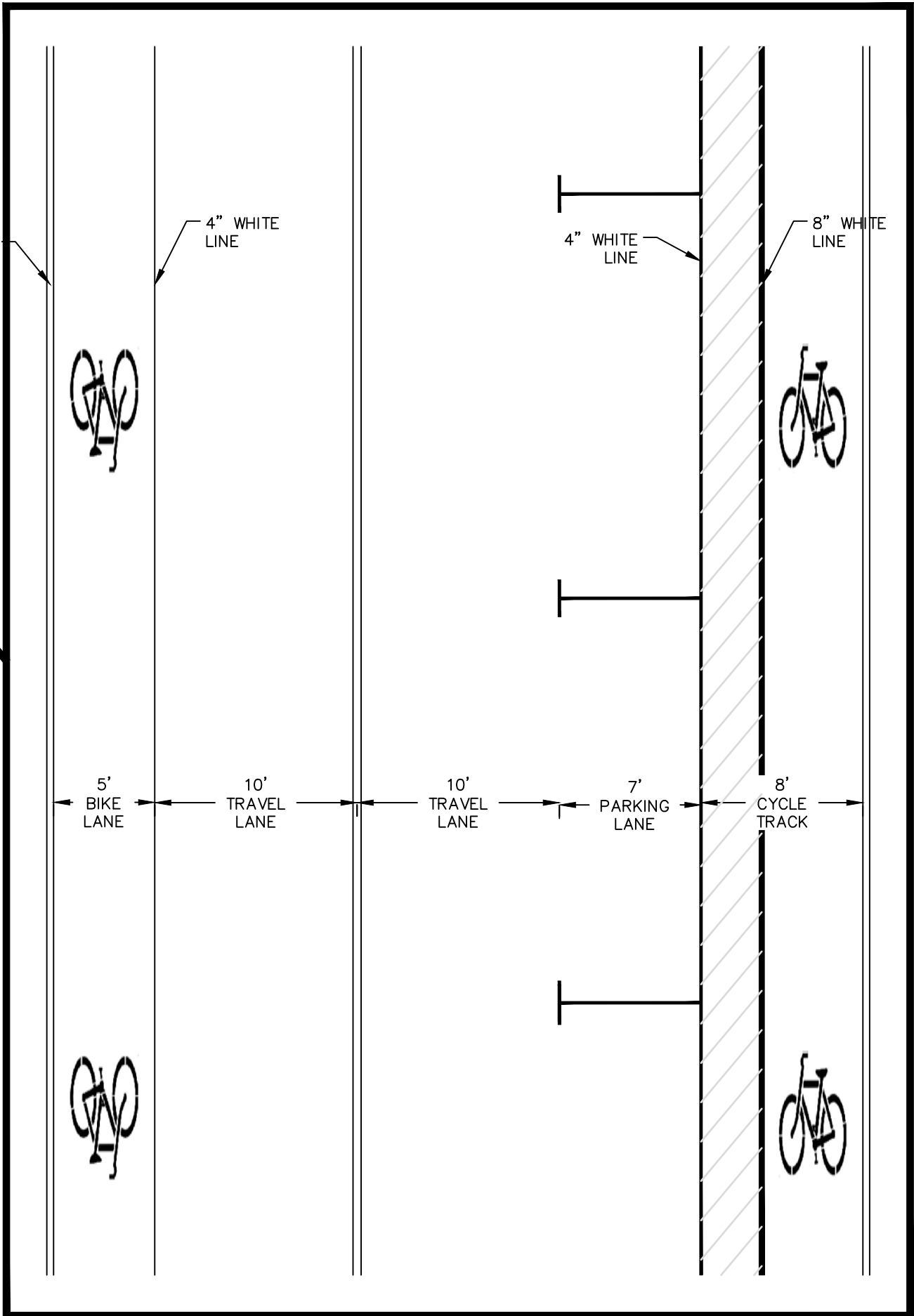
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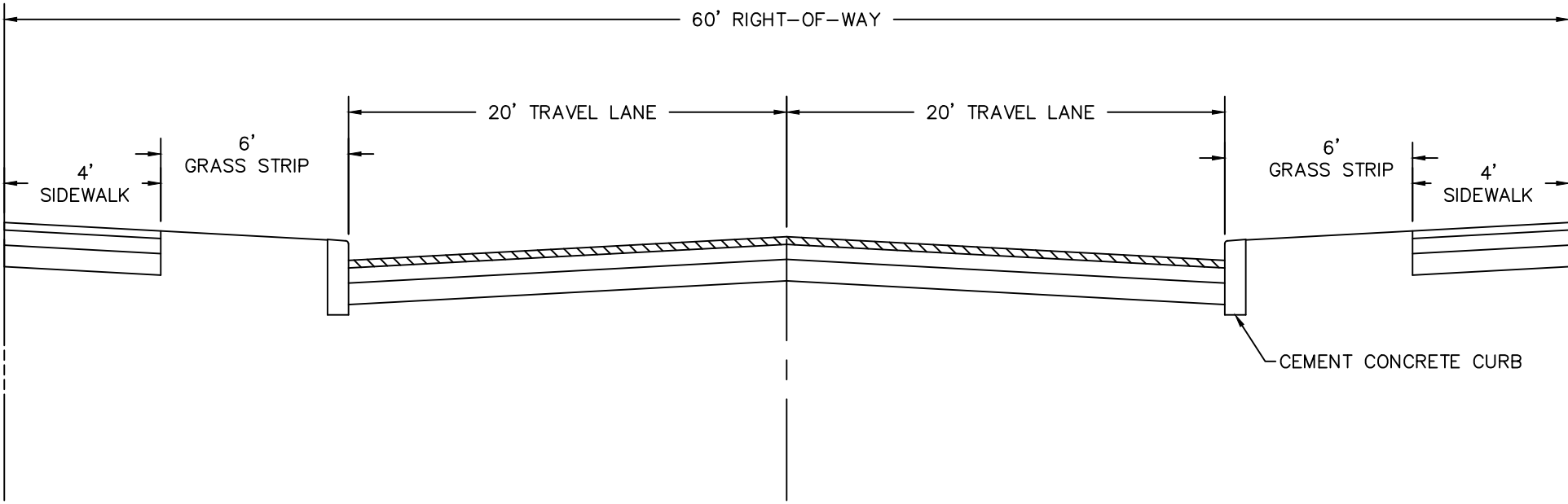
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(IN FEET)  
1 INCH = 200 FT.



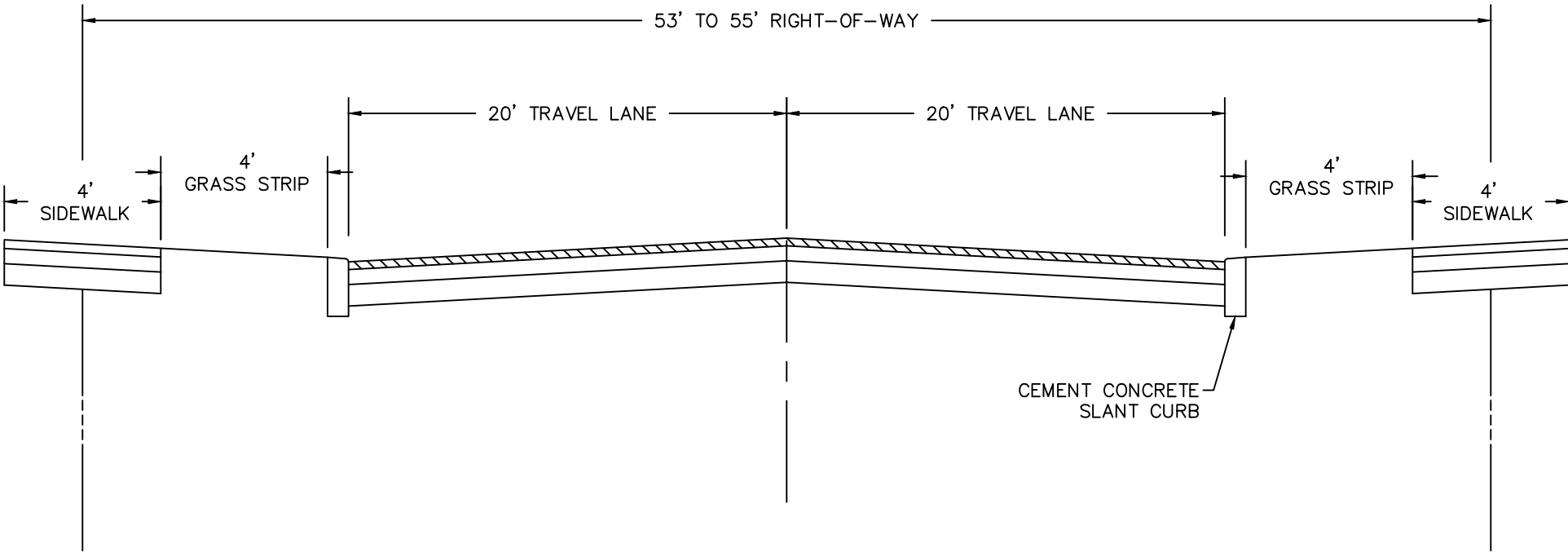
OPTION 1: ONE COMBINATION PARKING/BIKE LANE  
ONE BUFFERED BIKE LANE



OPTION 2: ONE PROTECTED BIKE LANE (CYCLE TRACK)  
ONE STANDARD BIKE LANE



EXISTING STREET CROSS SECTION  
E. WILLOW STREET



EXISTING STREET CROSS SECTION  
E. WILLOW STREET  
(EAST OF BEECHWOOD LANE)

OWNER: ELIZABETHTOWN BOROUGH 600 SOUTH HANOVER STREET ELIZABETHTOWN, PA 17022	NAME AND LOCATION OF PROJECT			PROJECT NO.	STREET LAYOUT OPTIONS (OVERALL VIEW)	SHEET NO.  C-101
	<b>ELIZABETHTOWN BOROUGH FIVE-YEAR TRANSPORTATION PLAN</b>			38-1		
	LANCASTER COUNTY			ELIZABETHTOWN BOROUGH, PA		
	E. WILLOW STREET			SHEET 3 OF 10 SHEETS		

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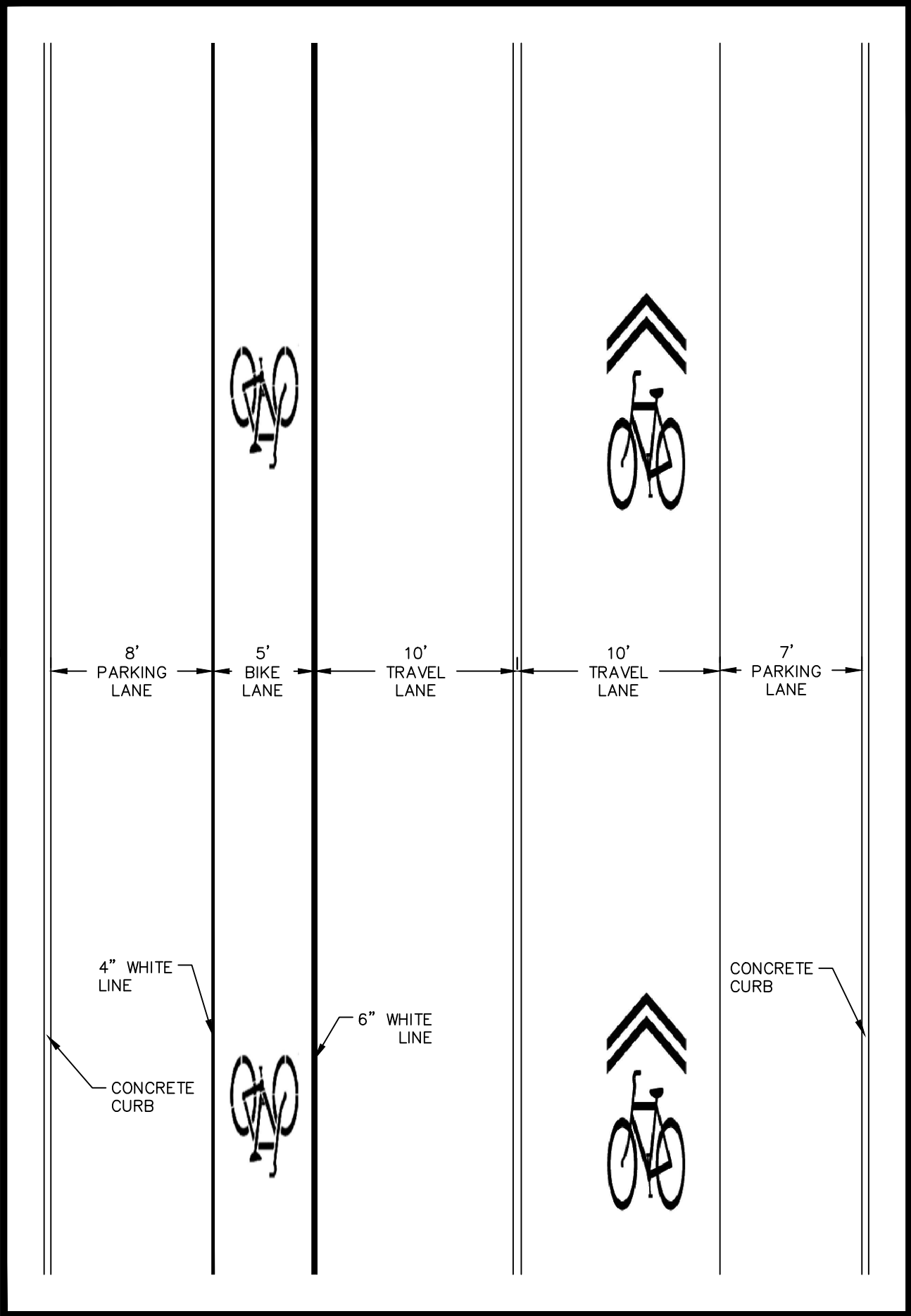
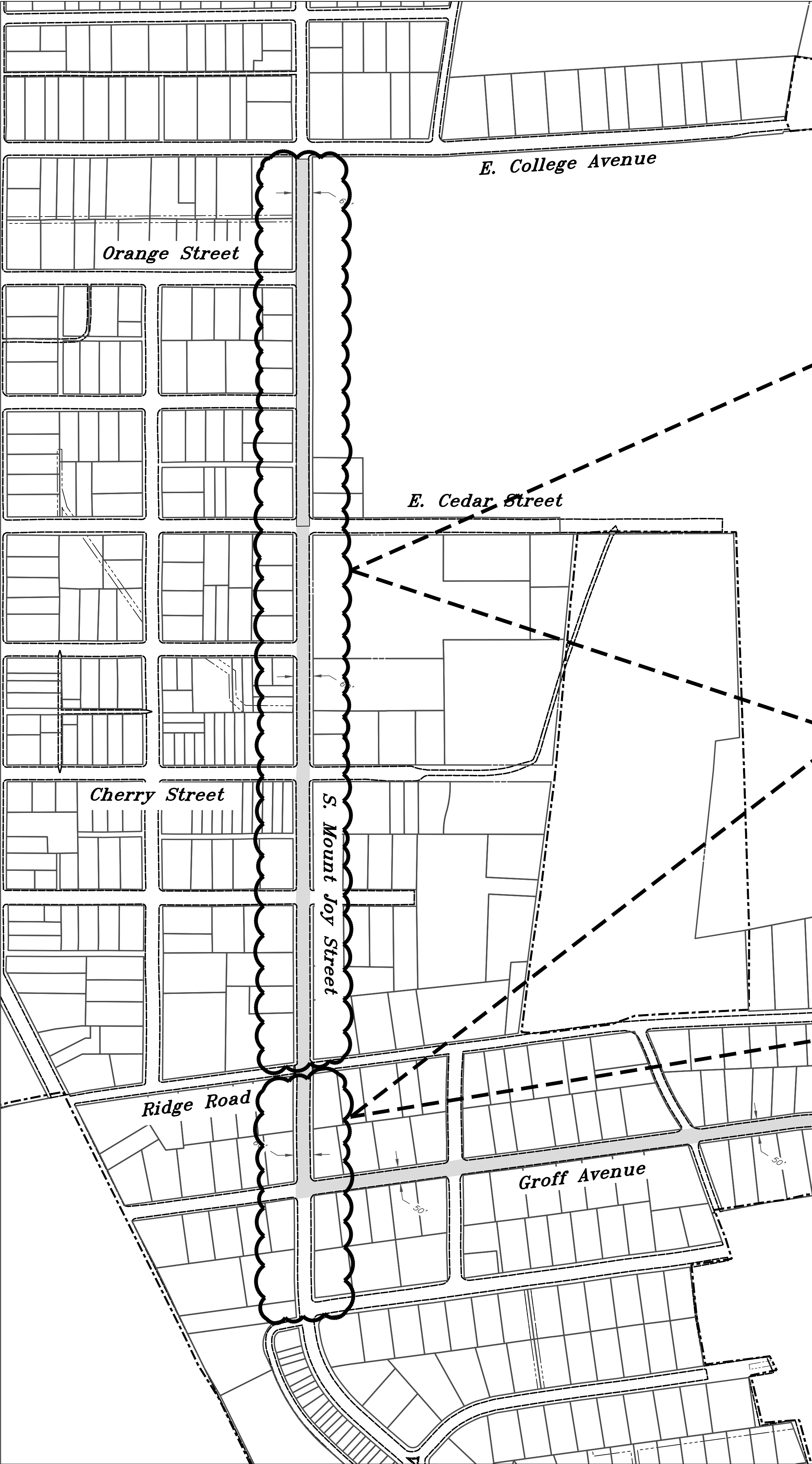
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PLAN DATE: APRIL 23, 2018  
DWG FILE: 2018-04-23 - ETOWN CONCEPT.DWG

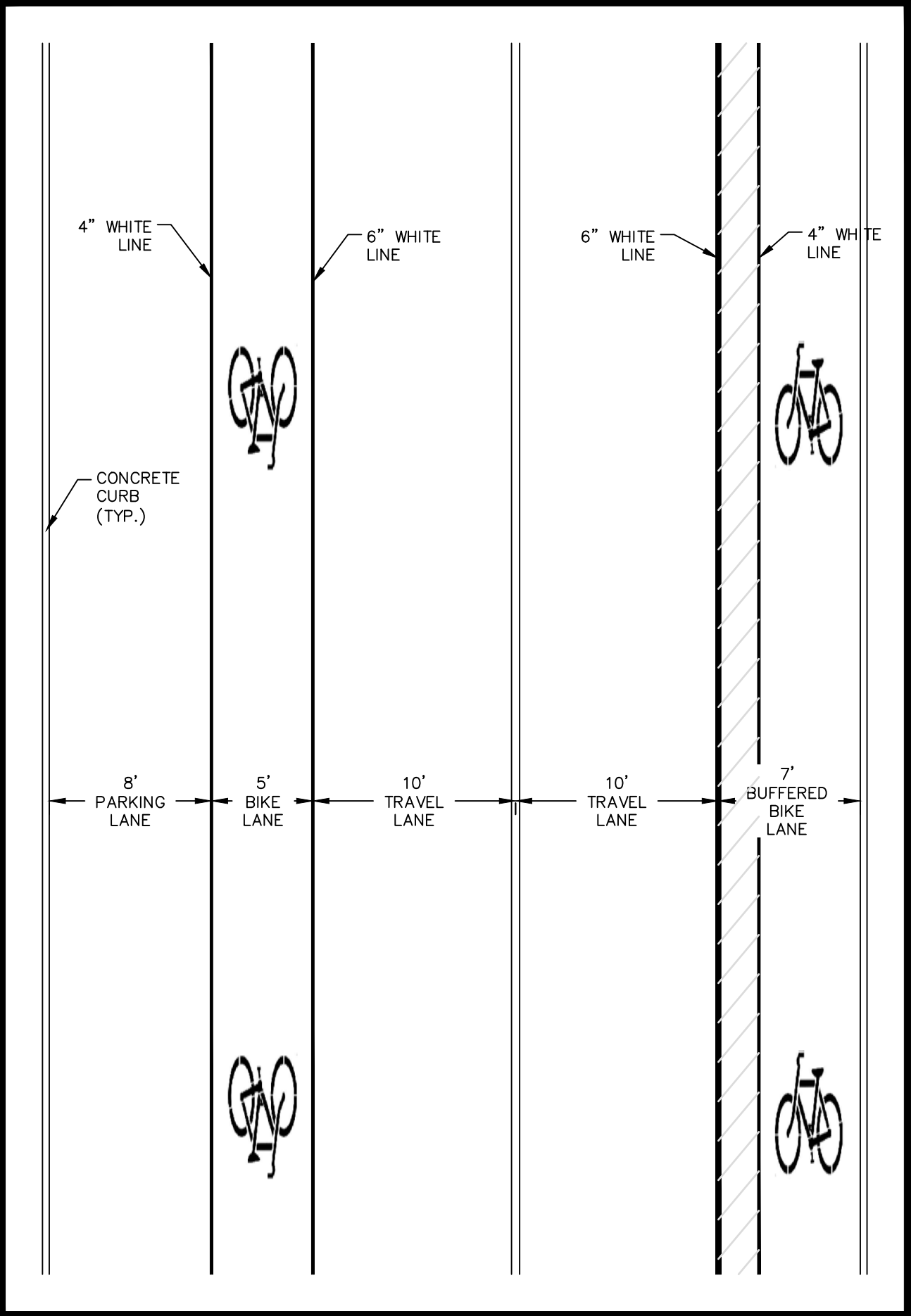
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NORTH ARROW

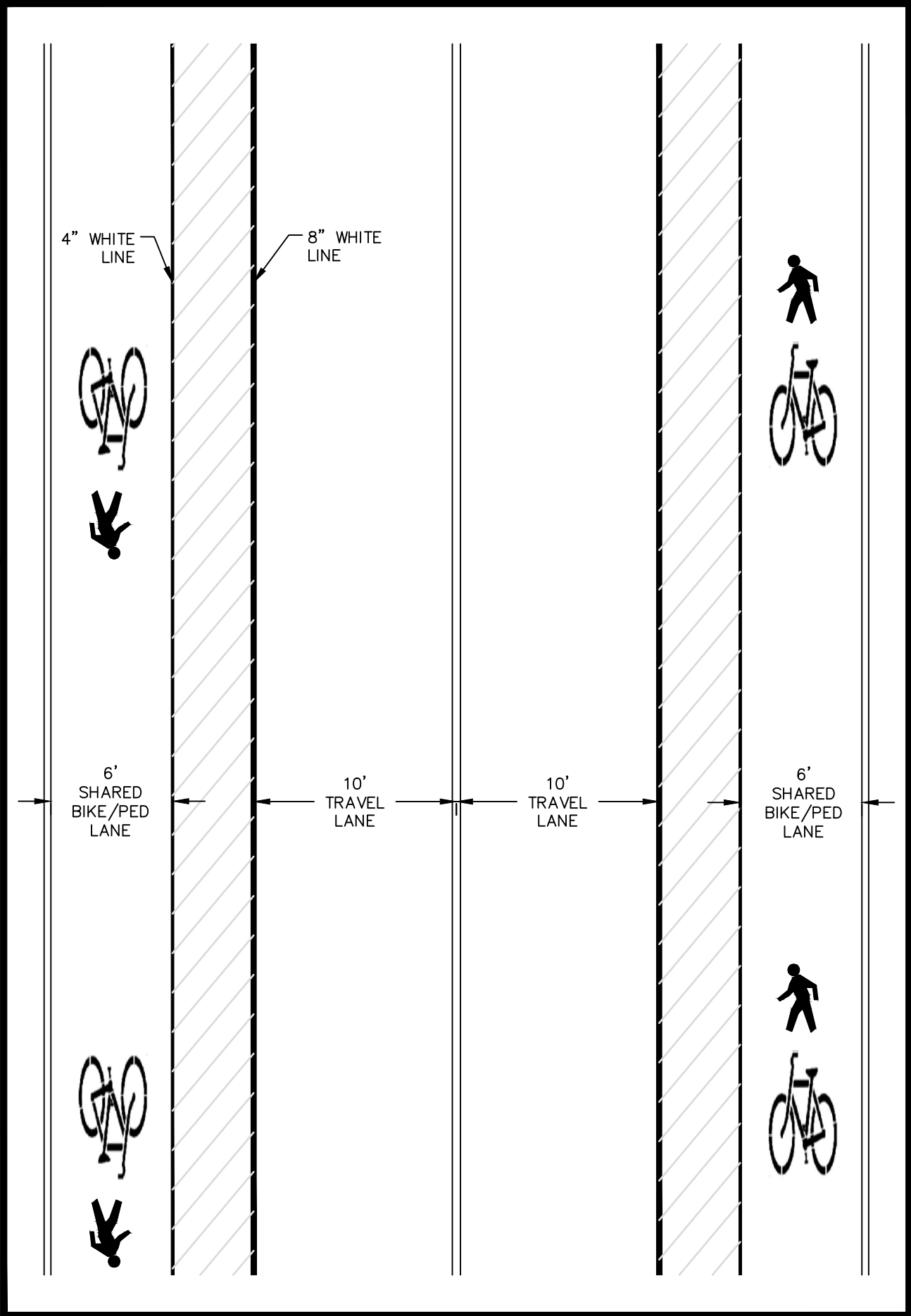
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GRAPHIC SCALE  
(IN FEET)  
1 INCH = 200 FT.  
200 0 200 400



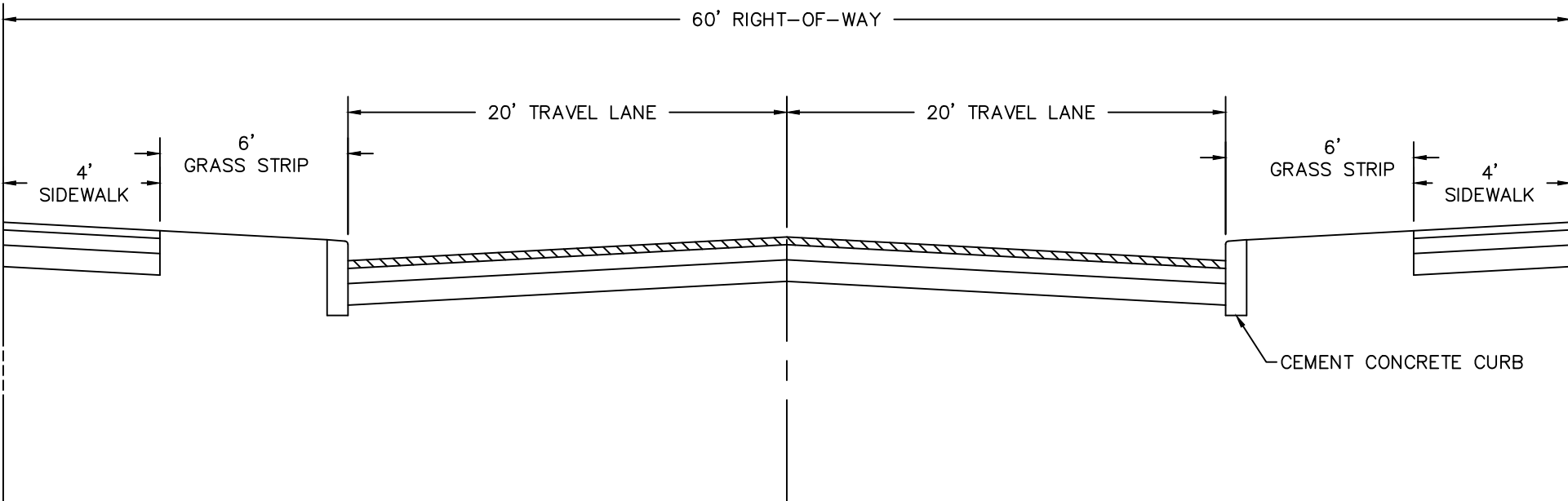
OPTION 1: TWO PARKING LANES  
ONE BIKE LANE, ONE SHARED LANE



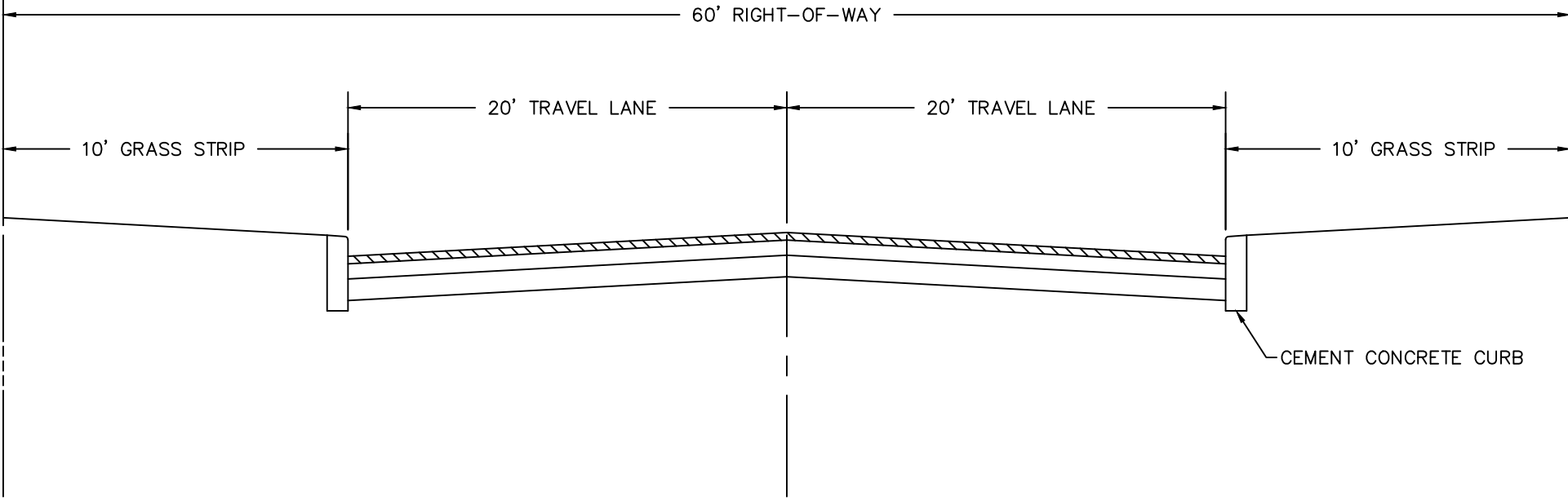
OPTION 2: ONE COMBINATION PARKING/BIKE LANE  
ONE BUFFERED BIKE LANE



OPTION 1: TWO BUFFERED BIKE LANES  
NO PARKING LANES

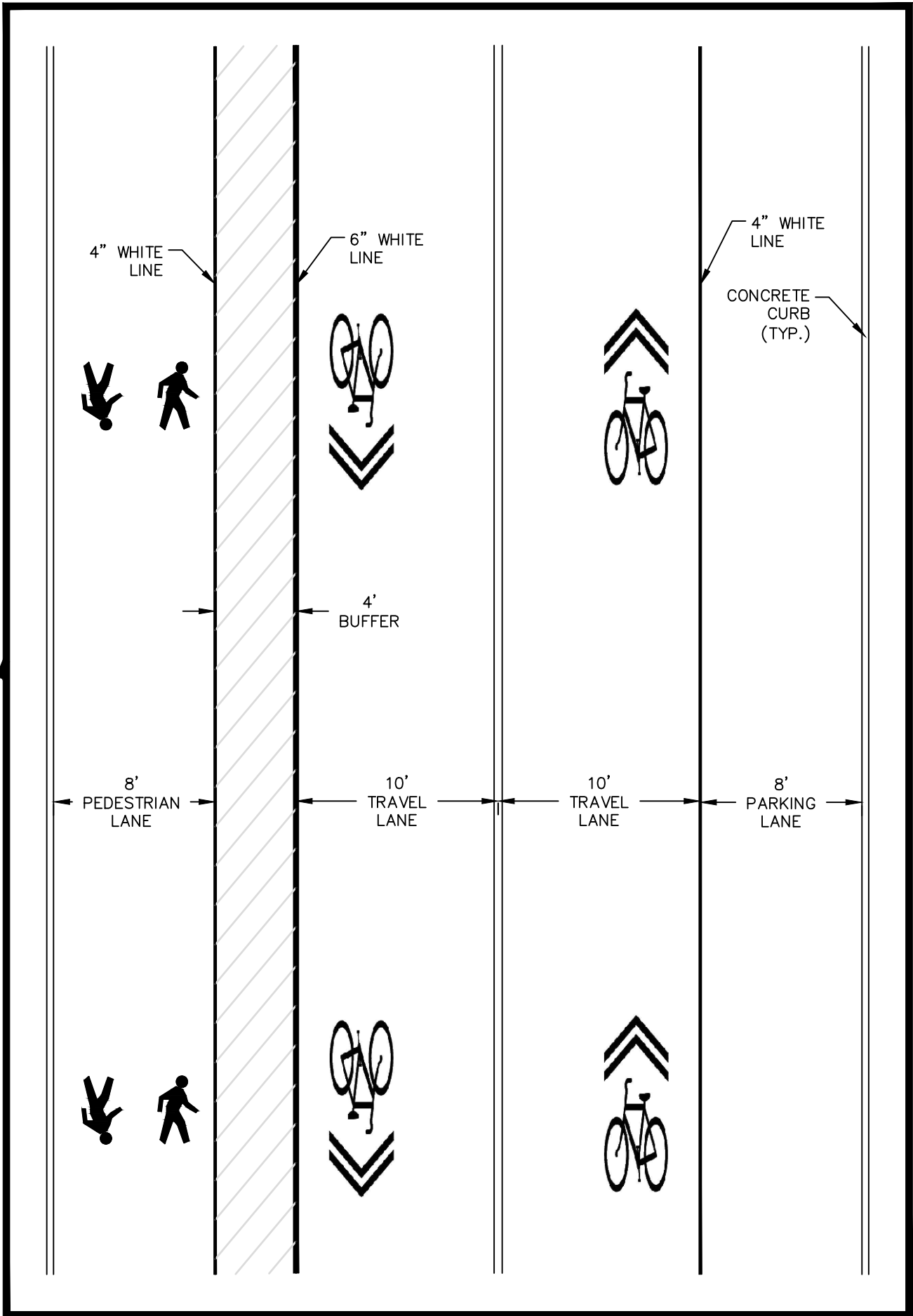
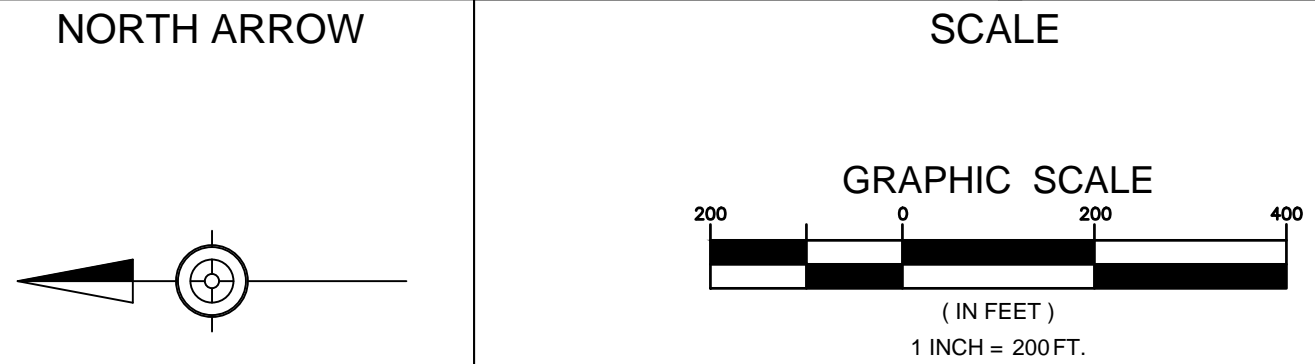


EXISTING STREET CROSS SECTION  
S. MOUNT JOY STREET  
(NORTH OF GROFF AVENUE)

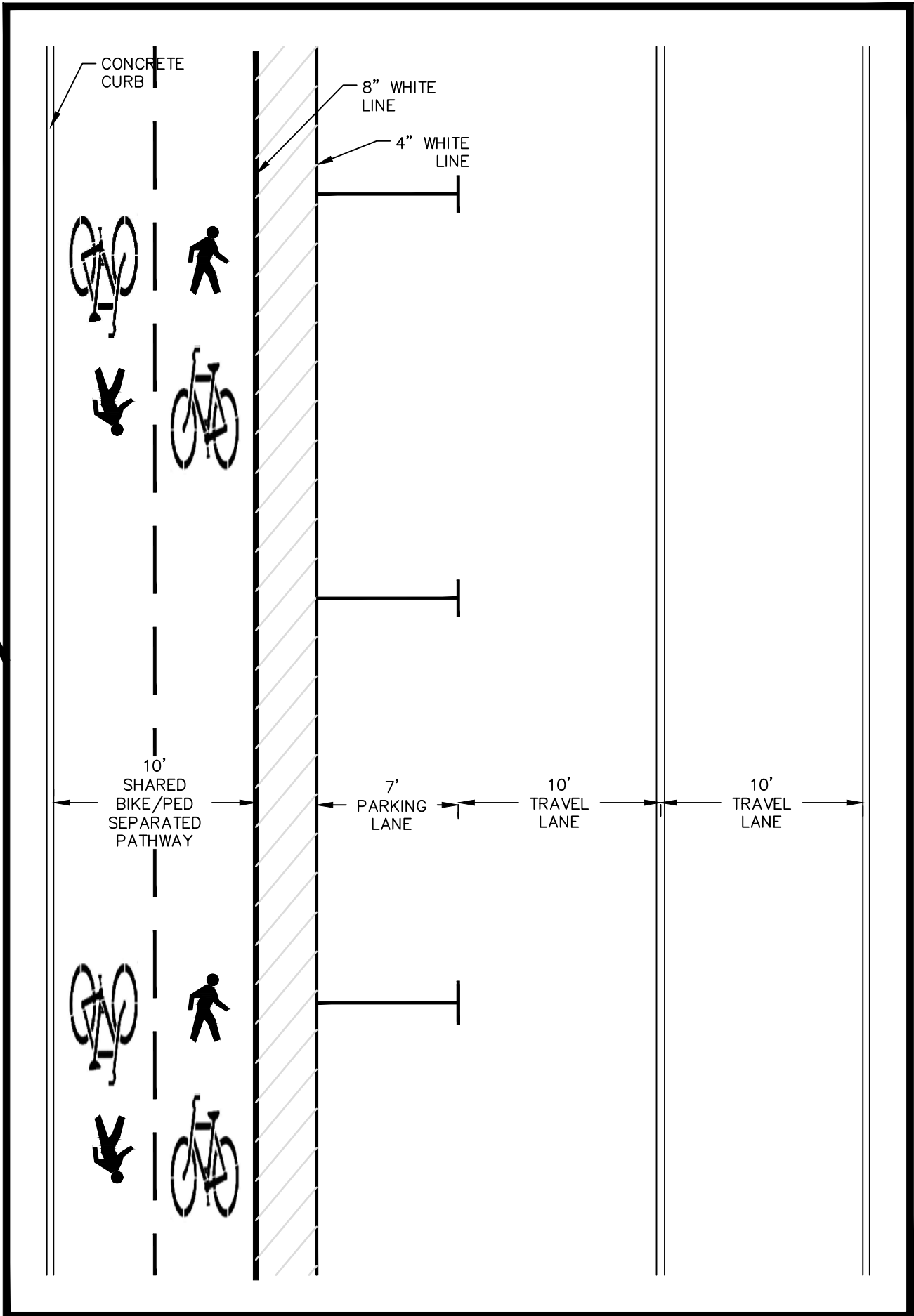


EXISTING STREET CROSS SECTION  
S. MOUNT JOY STREET  
(SOUTH OF RIDGE ROAD)

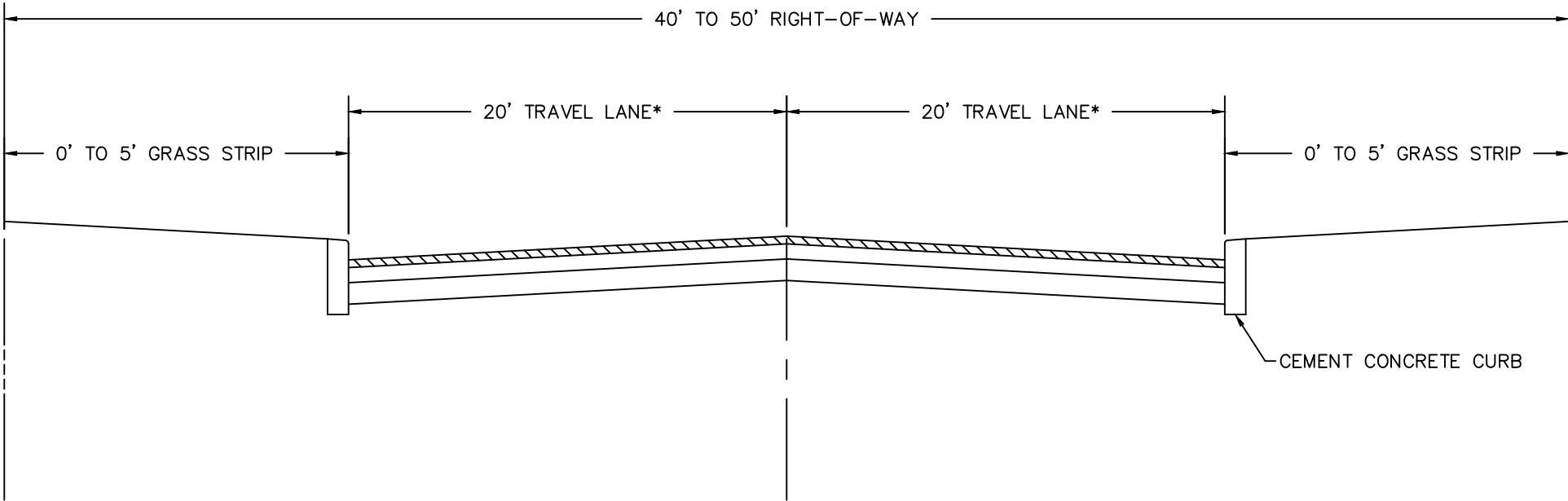




OPTION 1: ONE PEDESTRIAN LANE/ONE PARKING LANE



OPTION 2: TWO PROTECTED BIKE LANES  
(TWO-WAY CYCLE TRACK)



\*CARTWAY NARROWS FROM 40' TO 25' WIDE  
AT THE INTERSECTION WITH CAMPUS ROAD

EXISTING STREET CROSS SECTION  
GROFF AVENUE



GROFF AVENUE/HAMPTON ROAD PEDESTRIAN PATHWAY  
(AT GROFF ROAD)

OWNER:  
ELIZABETHTOWN BOROUGH  
600 SOUTH HANOVER STREET  
ELIZABETHTOWN, PA 17022

GROFF AVENUE

NAME AND LOCATION OF PROJECT

ELIZABETHTOWN BOROUGH FIVE-YEAR TRANSPORTATION PLAN

LANCASTER COUNTY

ELIZABETHTOWN BOROUGH, PA

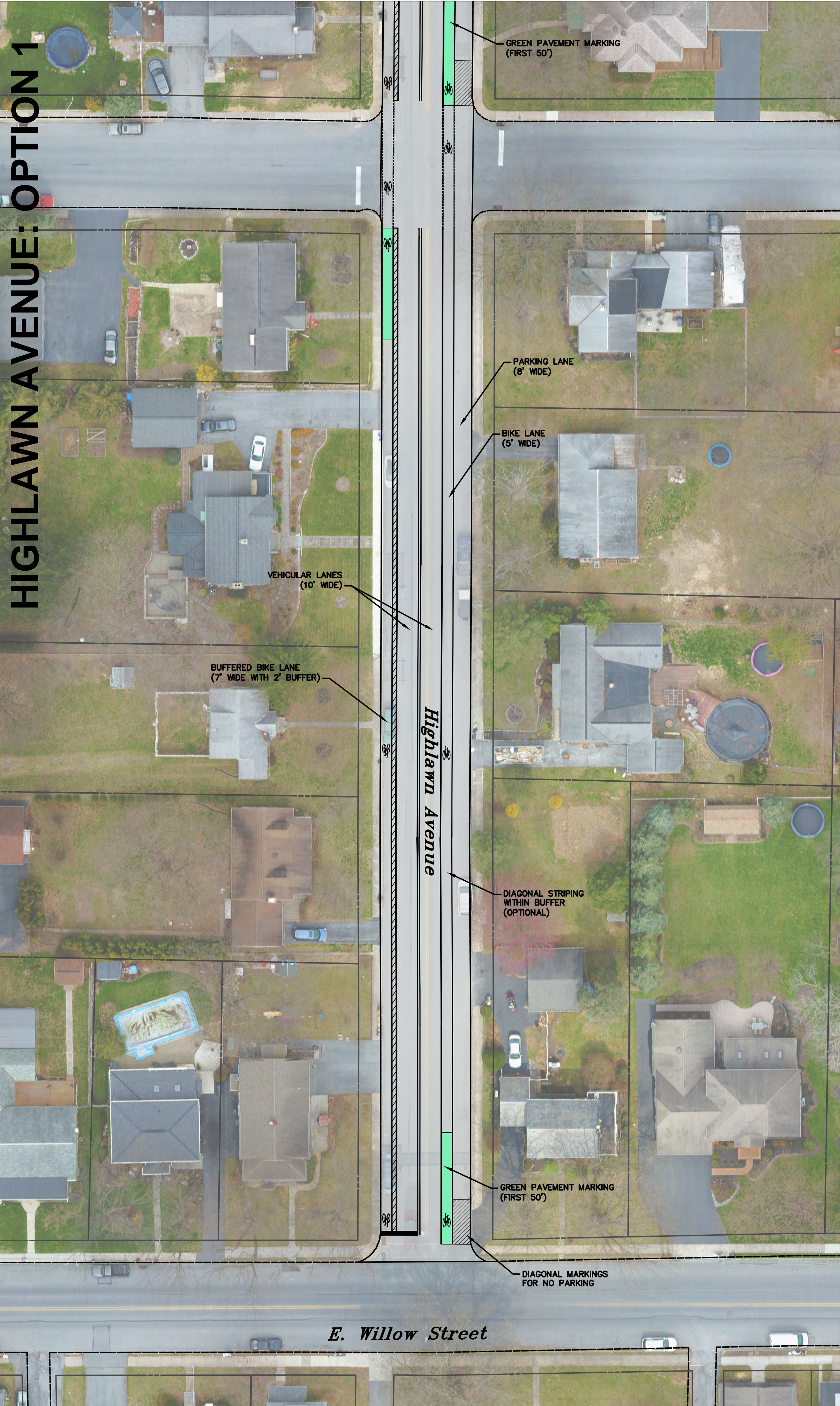
PROJECT NO.  
38-1

STREET LAYOUT OPTIONS  
(OVERALL VIEW)  
SHEET 5 OF 10 SHEETS

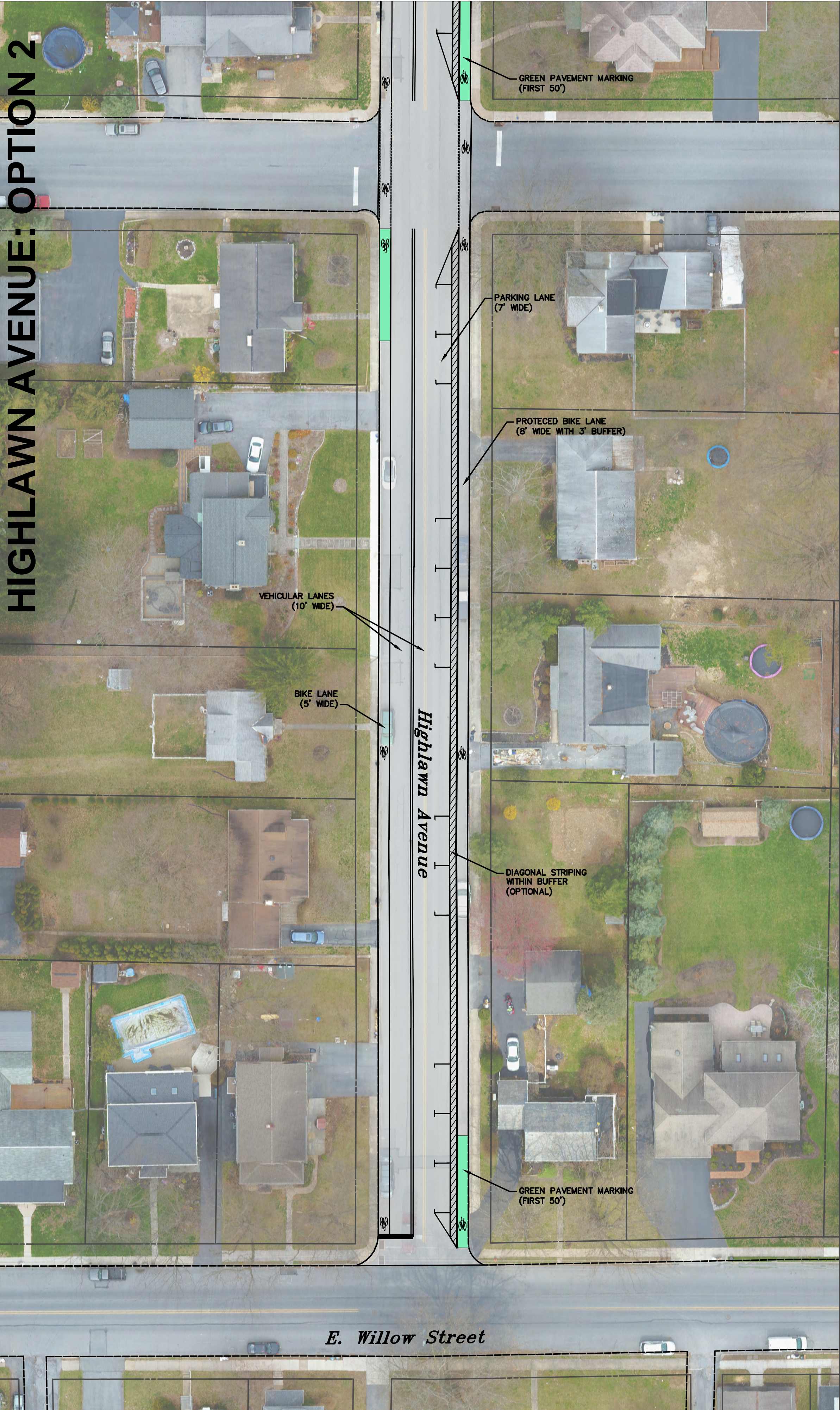
SHEET NO.  
C-103



HIGHLAWN AVENUE: OPTION 1



HIGHLAWN AVENUE: OPTION 2

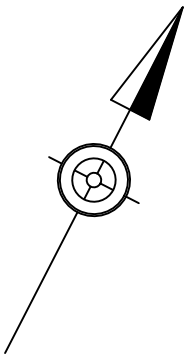


PREPARED BY: SEAL

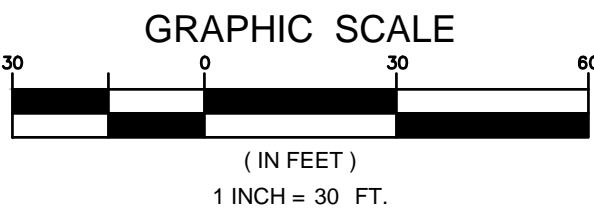
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NORTH ARROW



SCALE



HIGHLAWN AVENUE: OPTION 1

- ADVANTAGES
- 1. PROVIDES ON-STREET PARKING ON EAST (UPHILL) SIDE OF STREET WITH A STANDARD 5' BIKE LANE.
  - 2. PROVIDES BUFFERED BIKE LANE ON WEST (DOWNHILL) SIDE OF STREET. NO PARKED CARS AVOIDS CONFLICTS WITH OPEN DOORS.
  - 3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  - 4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  - 5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.
  - 6. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS, EXCEPT THAT THE PARKING RESTRICTION ON THE WEST SIDE WILL ALLOW FOR LESS CONFLICTS WITH PARKED CARS.

- DISADVANTAGES
- 1. ON-STREET PARKING IS RESTRICTED ON THE WEST SIDE.
  - 2. THE EASTERN BIKE LANE IS SUSCEPTIBLE TO CONFLICTS FROM OPENING VEHICLE DOORS.

HIGHLAWN AVENUE: OPTION 2

- ADVANTAGES
- 1. PROVIDES ON-STREET PARKING ON EAST (UPHILL) SIDE OF STREET WITH A PROTECTED 5' BIKE LANE.
  - 2. PROVIDES STANDARD BIKE LANE ON WEST (DOWNHILL) SIDE OF STREET. NO PARKED CARS AVOIDS CONFLICTS WITH OPEN DOORS.
  - 3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  - 4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  - 5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.

- DISADVANTAGES
- 1. ON-STREET PARKING IS RESTRICTED ON THE WEST SIDE.
  - 2. THE VEHICULAR LANES ARE NOT CENTERED WITHIN THE RIGHT-OF-WAY. THIS OFFSET MAY CAUSE CONFUSION WITH SOME MOTORISTS.
  - 3. VEHICLES TURNING INTO DRIVEWAYS PROPOSE CONFLICTS.
  - 4. SNOW REMOVAL FOR THE PROTECTED BIKE LANE IS MORE CHALLENGING.
  - 5. THIS OPTION INCLUDES MORE STRIPING THAN OPTION 1 (PARKING SPACES).

OWNER:  
ELIZABETHTOWN BOROUGH  
600 SOUTH HANOVER STREET  
ELIZABETHTOWN, PA 17022

HIGHLAWN AVENUE

ELIZABETHTOWN BOROUGH FIVE-YEAR TRANSPORTATION PLAN

LANCASTER COUNTY

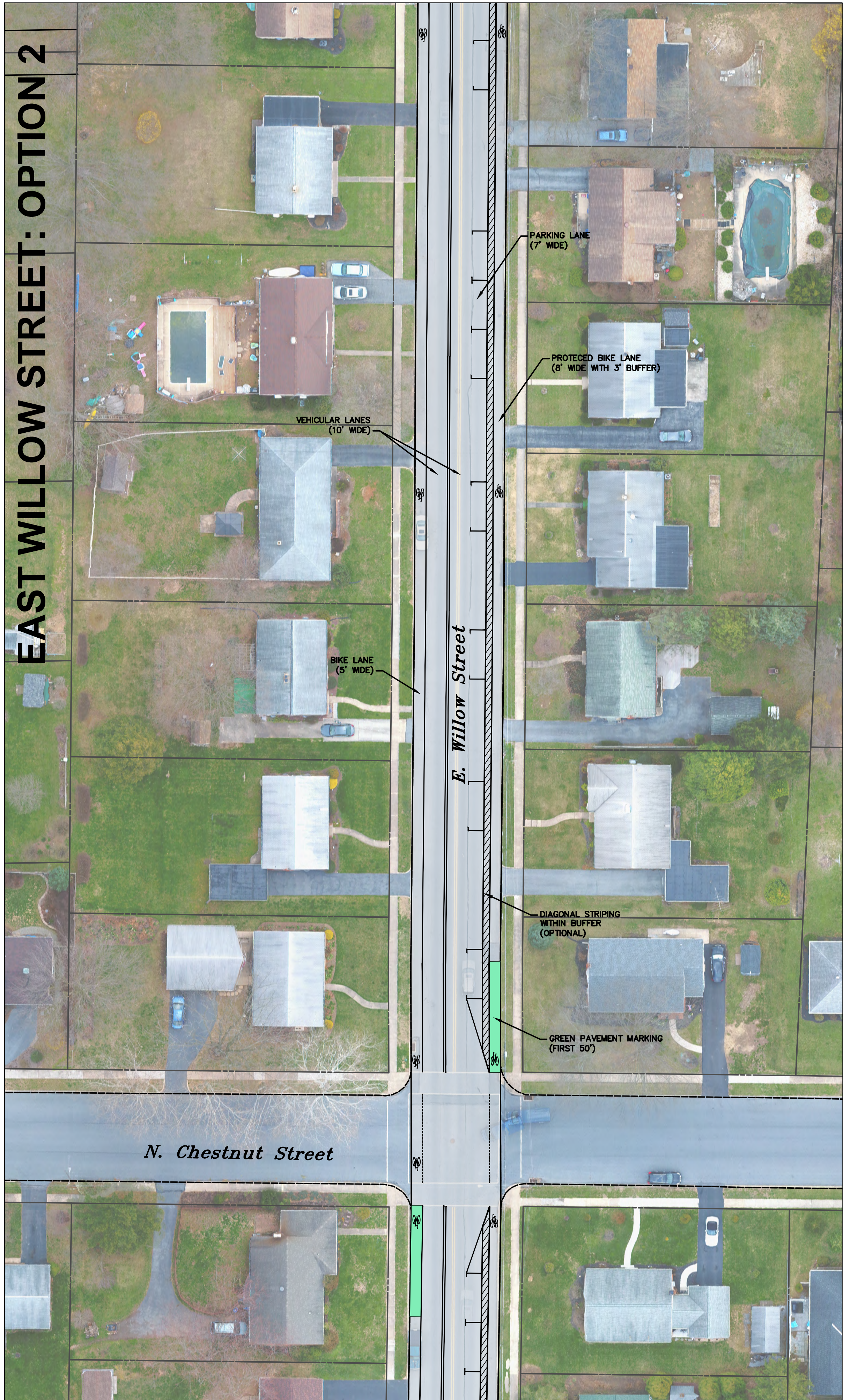
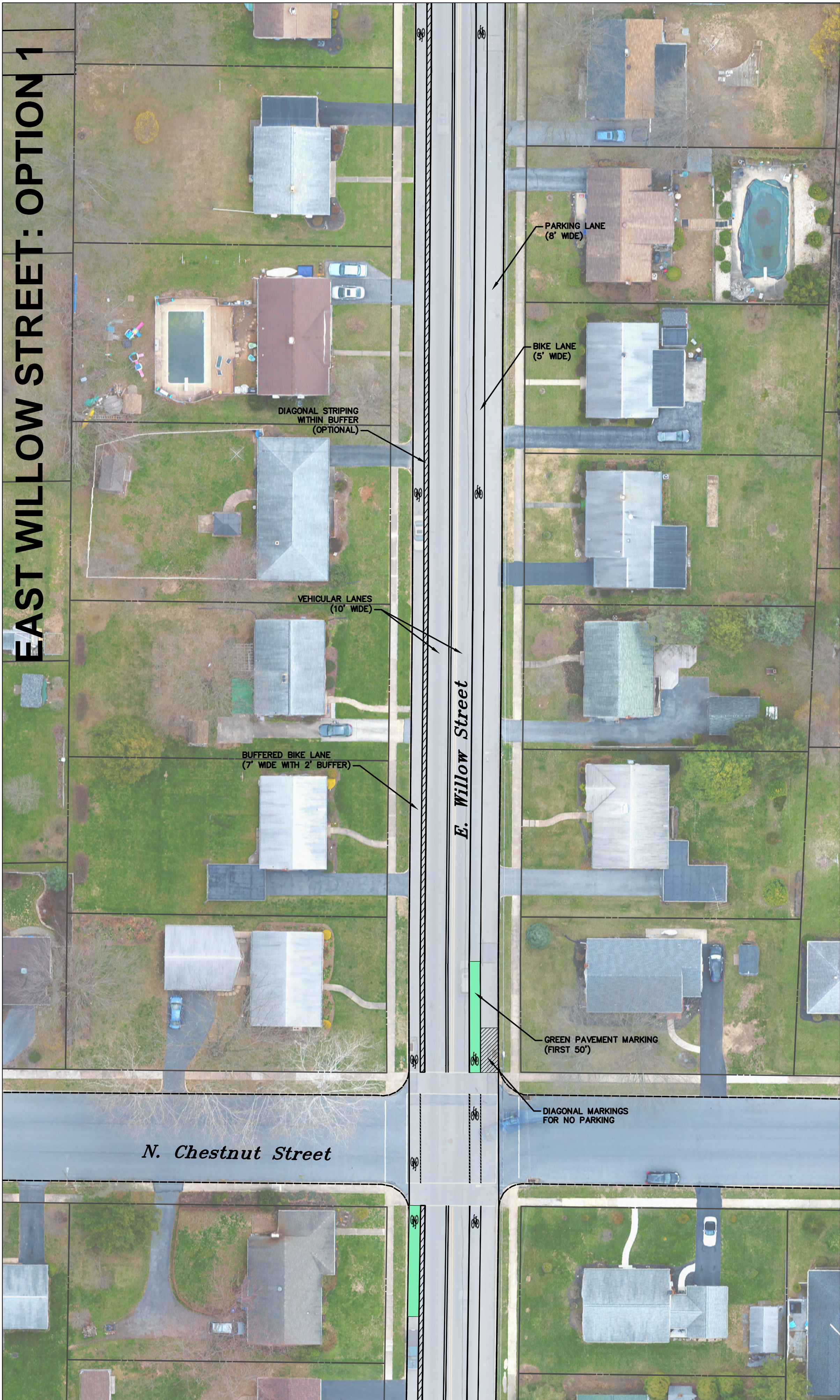
ELIZABETHTOWN BOROUGH, PA

PROJECT NO.  
38-1

STREET LAYOUT OPTIONS  
(DETAILED VIEW)  
SHEET 6 OF 10 SHEETS

SHEET NO.  
C-200





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SEAL

NORTH ARROW

SCALE  
GRAPHIC SCALE  
(IN FEET)  
1 INCH = 30 FT.

EAST WILLOW STREET: OPTION 1

- ADVANTAGES
1. PROVIDES ON-STREET PARKING ON EAST (UPHILL) SIDE OF STREET WITH A STANDARD 5' BIKE LANE.
  2. PROVIDES BUFFERED BIKE LANE ON WEST (DOWNHILL) SIDE OF STREET. NO PARKED CARS AVOIDS CONFLICTS WITH OPEN DOORS.
  3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.
  6. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS, EXCEPT THAT THE PARKING RESTRICTION ON THE WEST SIDE WILL ALLOW FOR LESS CONFLICTS WITH PARKED CARS.

- DISADVANTAGES
1. ON-STREET PARKING IS RESTRICTED ON THE WEST SIDE.
  2. THE EASTERN BIKE LANE IS SUSCEPTIBLE TO CONFLICTS FROM OPENING VEHICLE DOORS.

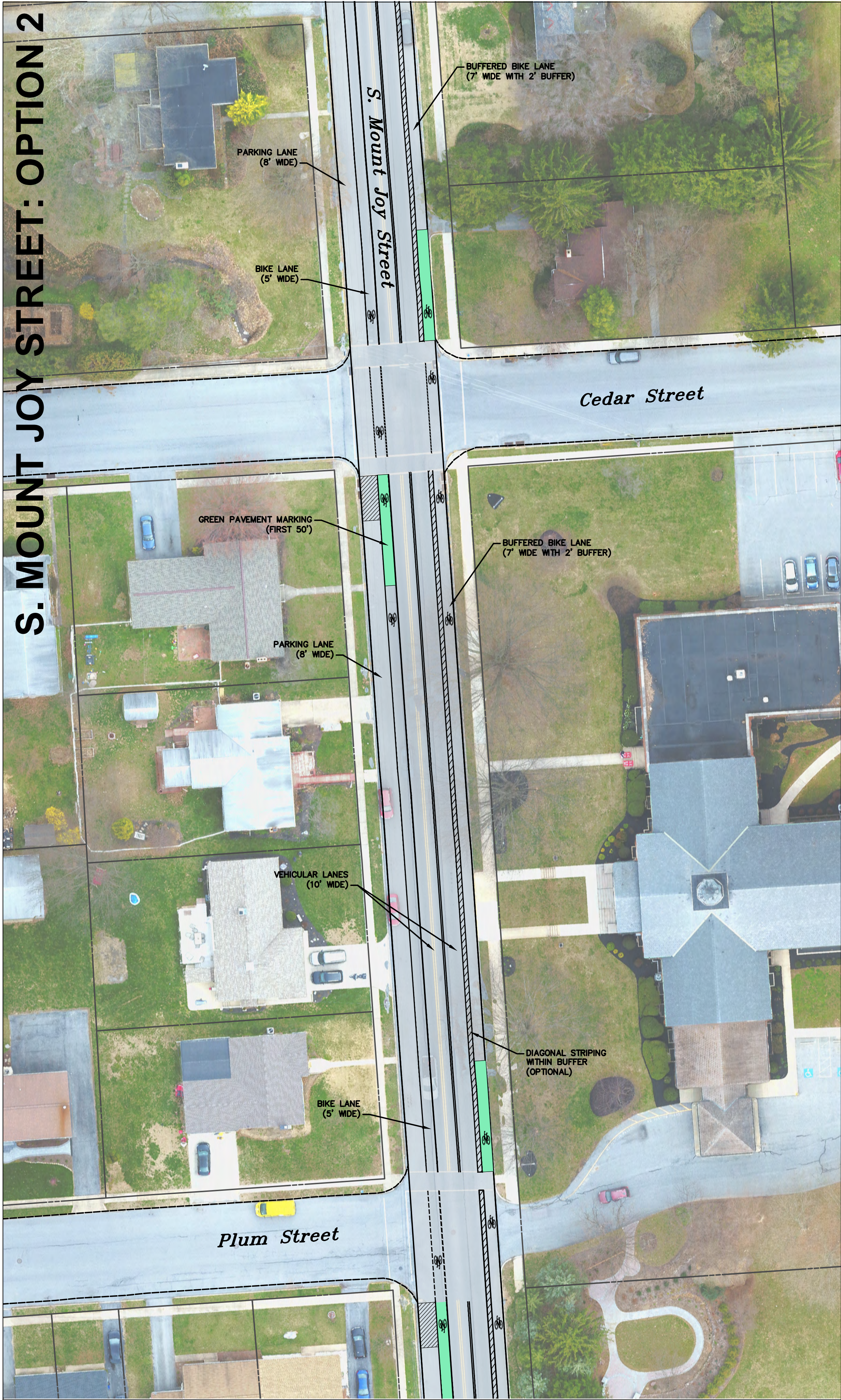
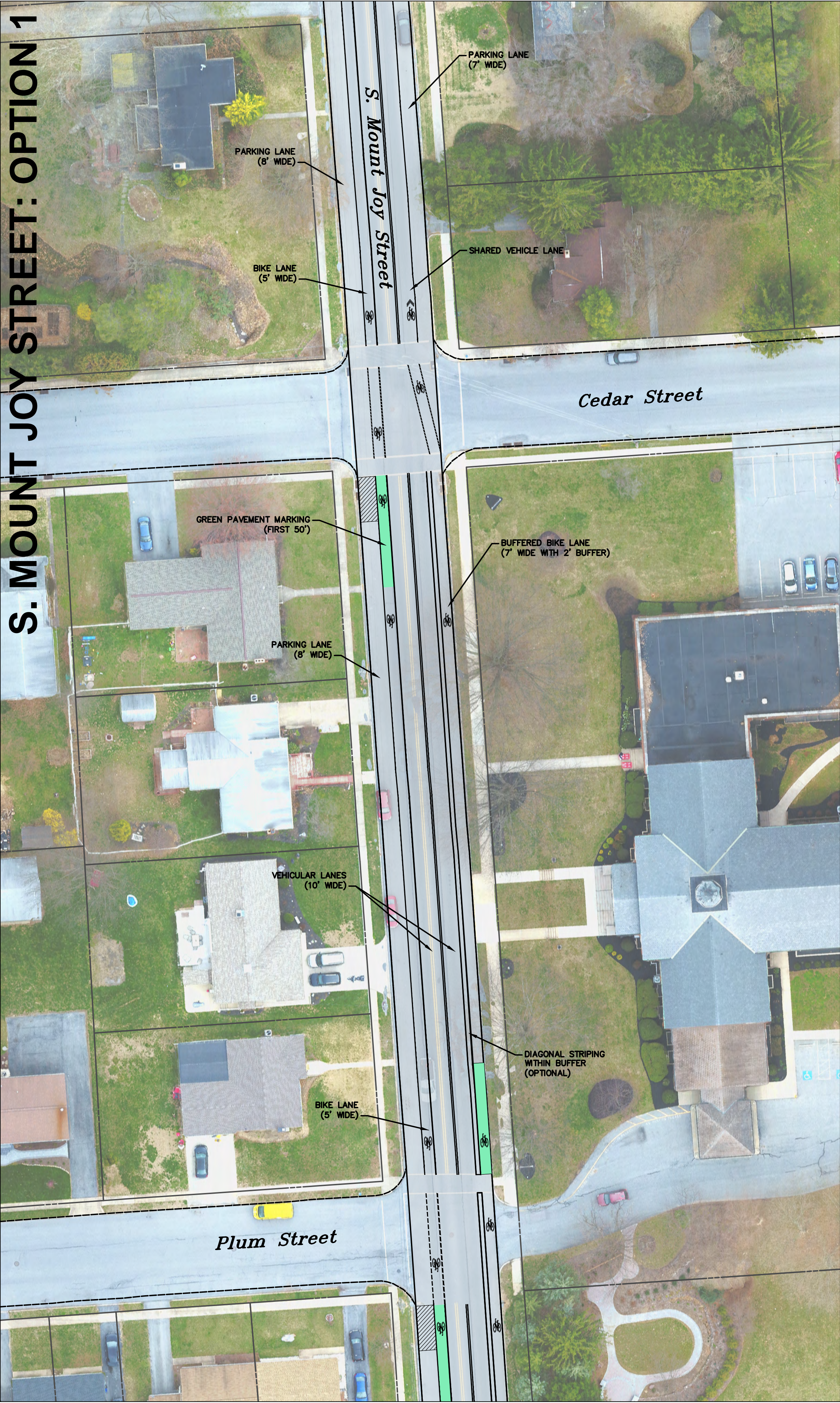
EAST WILLOW STREET: OPTION 2

- ADVANTAGES
1. PROVIDES ON-STREET PARKING ON EAST (UPHILL) SIDE OF STREET WITH A PROTECTED 5' BIKE LANE.
  2. PROVIDES STANDARD BIKE LANE ON WEST (DOWNHILL) SIDE OF STREET. NO PARKED CARS AVOIDS CONFLICTS WITH OPEN DOORS.
  3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.

- DISADVANTAGES
1. ON-STREET PARKING IS RESTRICTED ON THE WEST SIDE.
  2. THE VEHICULAR LANES ARE NOT CENTERED WITHIN THE RIGHT-OF-WAY. THIS OFFSET MAY CAUSE CONFUSION WITH SOME MOTORISTS.
  3. VEHICLES TURNING INTO DRIVEWAYS PROPOSE CONFLICTS.
  4. SNOW REMOVAL FOR THE PROTECTED BIKE LANE IS MORE CHALLENGING.
  5. THIS OPTION INCLUDES MORE STRIPING THAN OPTION 1 (PARKING SPACES).

OWNER:  
ELIZABETHTOWN BOROUGH  
600 SOUTH HANOVER STREET  
ELIZABETHTOWN, PA 17022





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SEAL

NORTH ARROW

SCALE  
GRAPHIC SCALE  
(IN FEET)  
1 INCH = 30 FT.

- S. MOUNT JOY STREET: OPTION 1
- ADVANTAGES
1. PROVIDES ON-STREET PARKING ON BOTH SIDES OF THE STREET.
  2. PROVIDES A STANDARD 5' BIKE LANE ON THE EAST (UPHILL) SIDE OF STREET.
  3. PROVIDES SHARED BIKE/VEHICLE LANE ON WEST (DOWNHILL) SIDE OF STREET.
  4. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  5. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  6. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.
  7. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS.
- DISADVANTAGES
1. NO DEDICATED BIKE LANE IS PROVIDED ON THE EAST SIDE.
  2. BIKE LANES ARE SUSCEPTIBLE TO CONFLICTS FROM OPENING VEHICLE DOORS, ESPECIALLY ON THE EAST SIDE.

- S. MOUNT JOY STREET: OPTION 2
- ADVANTAGES
1. PROVIDES ON-STREET PARKING ON EAST (UPHILL) SIDE OF STREET WITH A STANDARD 5' BIKE LANE.
  2. PROVIDES BUFFERED BIKE LANE ON WEST (DOWNHILL) SIDE OF STREET. NO PARKED CARS AVOIDS CONFLICTS WITH OPEN DOORS.
  3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.
  6. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS, EXCEPT THAT THE PARKING RESTRICTION ON THE EAST SIDE WILL ALLOW FOR LESS CONFLICTS WITH PARKED CARS.
- DISADVANTAGES
1. ON-STREET PARKING IS RESTRICTED ON THE EAST SIDE.
  2. THE WESTERN BIKE LANE IS SUSCEPTIBLE TO CONFLICTS FROM OPENING VEHICLE DOORS.

OWNER:  
ELIZABETHTOWN BOROUGH  
600 SOUTH HANOVER STREET  
ELIZABETHTOWN, PA 17022

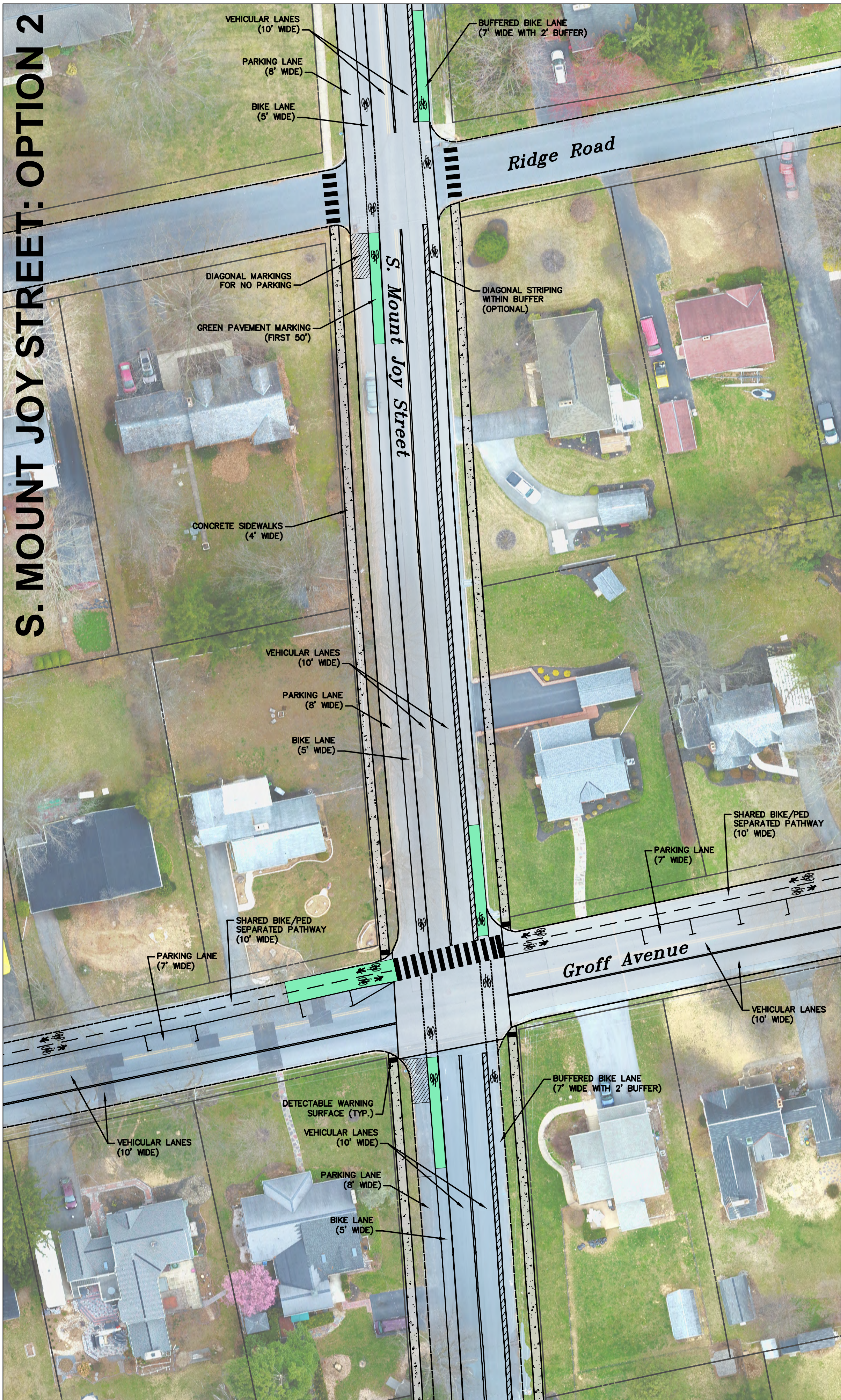
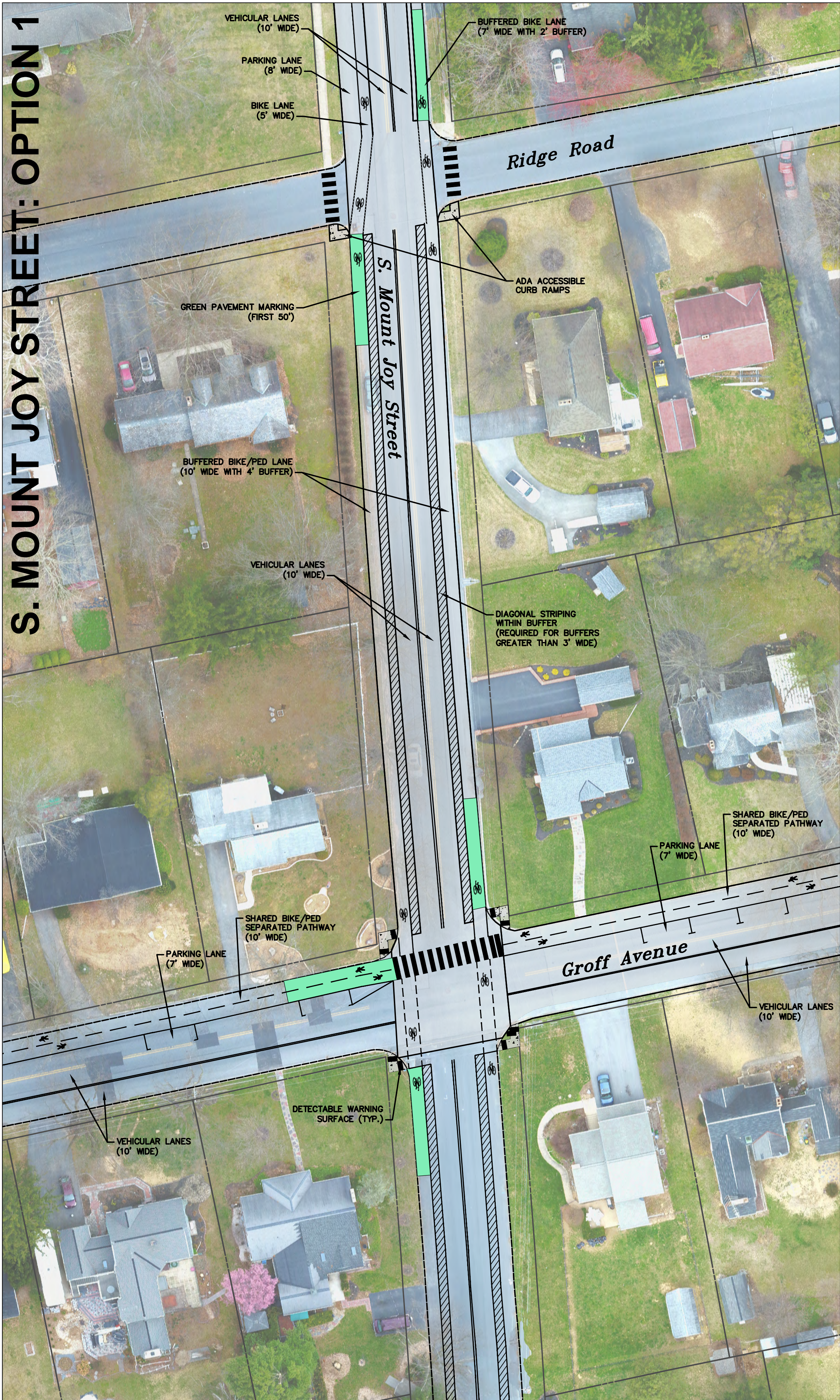
NAME AND LOCATION OF PROJECT

ELIZABETHTOWN BOROUGH FIVE-YEAR TRANSPORTATION PLAN

LANCASTER COUNTY

ELIZABETHTOWN BOROUGH, PA





PREPARED BY:  
**LANCASTER CIVIL ENGINEERING COMPANY**  
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DESIGNED BY: BSC  
DRAWN BY: BSC  
CHECKED BY:

PLAN DATE: APRIL 23, 2018  
DWG FILE: 2018-04-23 - ETOWN CONCEPT.DWG

SEAL

NORTH ARROW

SCALE  
GRAPHIC SCALE  
(IN FEET)  
1 INCH = 30 FT.

- S. MOUNT JOY STREET: OPTION 1
- ADVANTAGES**
1. PROVIDES A BUFFERED BIKE LANE ON THE BOTH SIDES OF STREET.
  2. PEDESTRIANS MAY USE BIKE LANE (A GENEROUS BUFFER LANE IS PROVIDED).
  3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.
  6. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS.
  7. PEDESTRIAN FACILITIES ARE PROVIDED WITHIN EXISTING RIGHT-OF-WAY.
- DISADVANTAGES**
1. NO ON-STREET PARKING IS PROVIDED ON EITHER SIDE OF THE STREET.
  2. NO DEDICATED PEDESTRIAN WALKWAYS ARE PROVIDED.

- S. MOUNT JOY STREET: OPTION 2
- ADVANTAGES**
1. PROVIDES ON-STREET PARKING ON EAST (UPHILL) SIDE OF STREET WITH A STANDARD 5' BIKE LANE.
  2. PROVIDES BUFFERED BIKE LANE ON WEST (DOWNHILL) SIDE OF STREET. NO PARKED CARS AVOIDS CONFLICTS WITH OPEN DOORS.
  3. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  4. PAINTING THE FIRST 50' OF BIKE LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  5. BIKE LANES ARE CARRIED THROUGH INTERSECTIONS WITH DASHED LINES AND A BICYCLE PAVEMENT MARKING. THESE THRU LANES CAN BE PAINTED GREEN FOR ADDITIONAL VISIBILITY.
  6. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS, EXCEPT THAT THE PARKING RESTRICTION ON THE EAST SIDE WILL ALLOW FOR LESS CONFLICTS WITH PARKED CARS.
  7. CONCRETE SIDEWALK IS PROVIDED ON EACH SIDE OF THE STREET.
- DISADVANTAGES**
1. ON-STREET PARKING IS RESTRICTED ON THE EAST SIDE.
  2. THE WESTERN BIKE LANE IS SUSCEPTIBLE TO CONFLICTS FROM OPENING VEHICLE DOORS.
  3. ADDITIONAL COSTS FOR CONCRETE SIDEWALK.



S. MOUNT JOY STREET/GROFF AVENUE INTERSECTION  
ADA-ACCESSIBLE CURB RAMP/SIDEWALK LAYOUT

OWNER:  
ELIZABETHTOWN BOROUGH  
600 SOUTH HANOVER STREET  
ELIZABETHTOWN, PA 17022

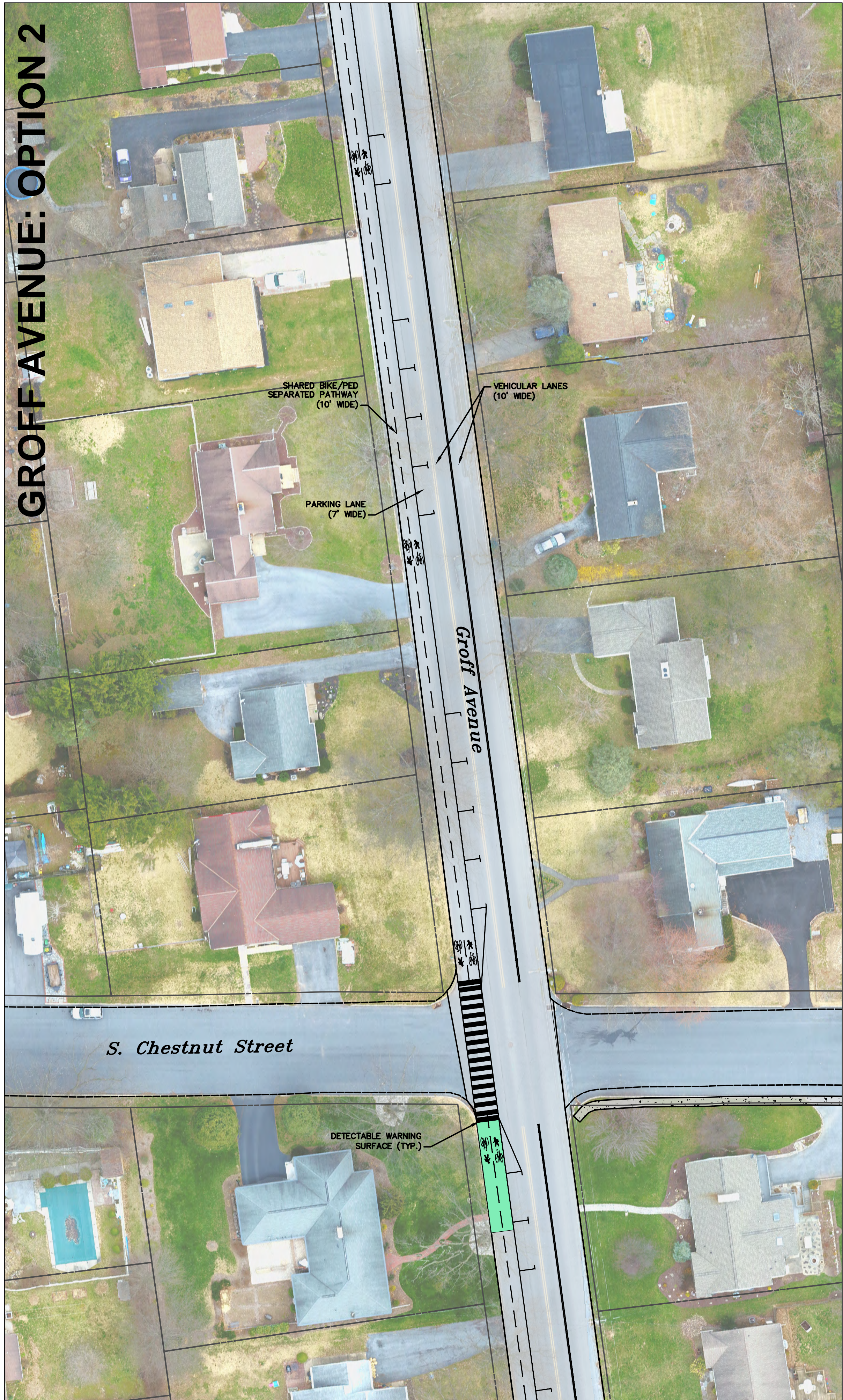
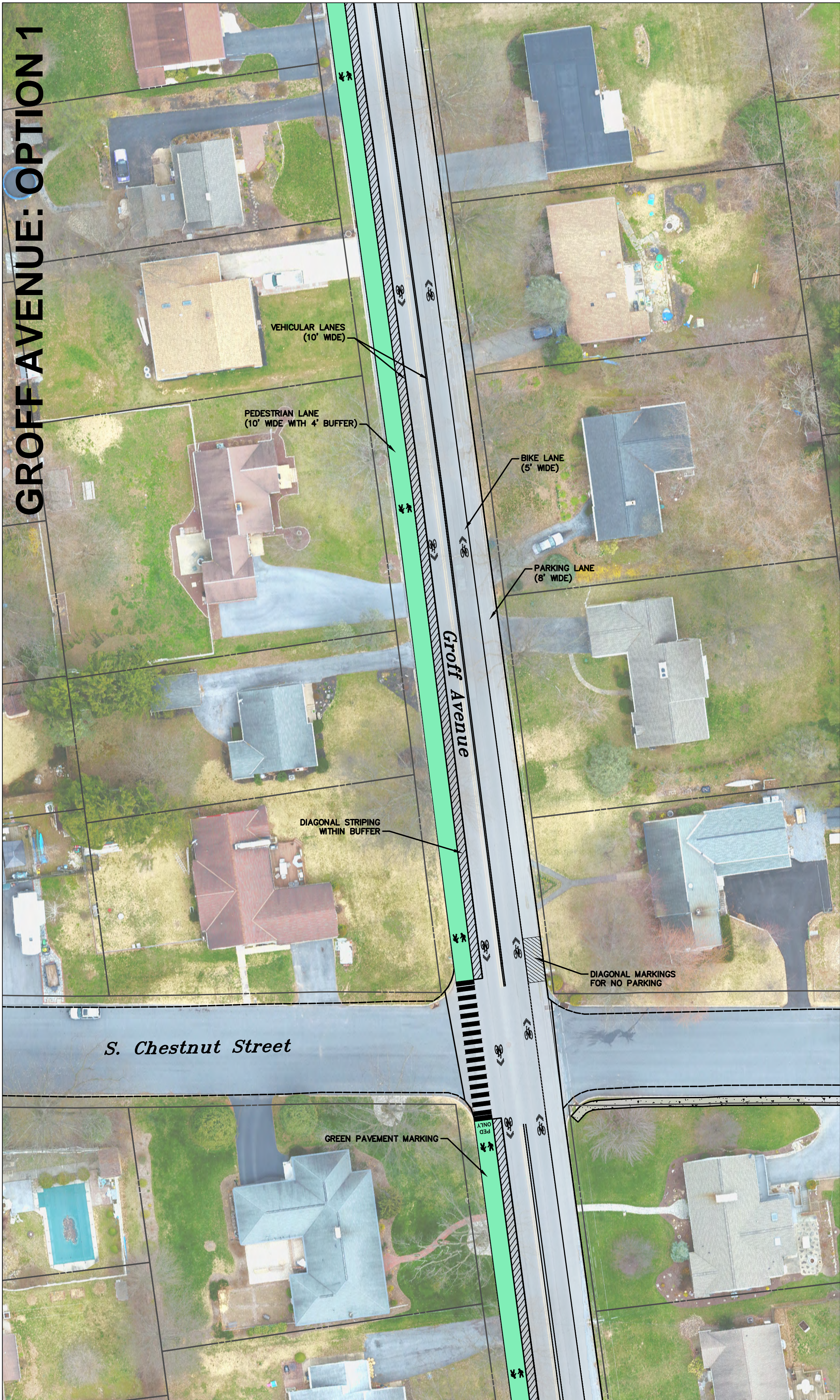
NAME AND LOCATION OF PROJECT

**ELIZABETHTOWN BOROUGH FIVE-YEAR TRANSPORTATION PLAN**

LANCASTER COUNTY

ELIZABETHTOWN BOROUGH, PA





PREPARED BY:  
**LANCASTER CIVIL ENGINEERING COMPANY**  
*PO Box 8972, Lancaster, PA 17604*  
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DESIGNED BY: BSC  
DRAWN BY: BSC  
CHECKED BY:

PLAN DATE: APRIL 23, 2018  
DWG FILE: 2018-04-23 - ETOWN CONCEPT.DWG

SEAL

NORTH ARROW

SCALE  
GRAPHIC SCALE  
(IN FEET)  
1 INCH = 30 FT.

GROFF AVENUE: OPTION 1

- ADVANTAGES
- 1. PROVIDES ON-STREET PARKING ON SOUTH SIDE OF THE STREET.
  - 2. PROVIDES A PAINTED PEDESTRIAN LANE ON THE NORTH SIDE OF THE STREET.
  - 3. PROVIDES A SHARED BIKE/VEHICLES LANES.
  - 4. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  - 5. PEDESTRIAN CROSSWALKS ARE CARRIED THROUGH INTERSECTIONS.
  - 6. SNOW REMOVAL IS SIMILAR TO CURRENT CONDITIONS, EXCEPT THAT THE PARKING RESTRICTION ON THE NORTH SIDE WILL ALLOW FOR LESS CONFLICTS WITH PARKED CARS.
- DISADVANTAGES
- 1. ON-STREET PARKING IS RESTRICTED ON THE NORTH SIDE.
  - 2. SHARED BIKE/VEHICLE LANES ARE SUSCEPTIBLE TO CONFLICTS FROM OPENING VEHICLE DOORS, ESPECIALLY ON THE EAST SIDE.
  - 3. BIKES MAY ENCROACH UPON PEDESTRIAN LANE.
  - 4. CONSTRUCTION TOLERANCES ARE LOW TO ENSURE THAT PEDESTRIAN LANE MEETS ADA REQUIREMENTS.

GROFF AVENUE: OPTION 2

- ADVANTAGES
- 1. PROVIDES ON-STREET PARKING ON NORTH SIDE OF THE STREET WITH A PROTECTED SHARED BIKE/PEDESTRIAN SEPARATED PATHWAY.
  - 2. PROVIDES 10' WIDE TRAVEL LANES – ADEQUATE FOR VEHICLES AND LIKELY TO LOWER SPEEDS.
  - 3. PAINTING THE FIRST 50' OF BIKE/PED LANE GREEN WILL ALERT TURNING VEHICLES TO THE POSSIBLE PRESENCE OF BICYCLES.
  - 5. PEDESTRIAN CROSSWALKS ARE CARRIED THROUGH INTERSECTIONS.
- DISADVANTAGES
- 1. ON-STREET PARKING IS RESTRICTED ON THE SOUTH SIDE.
  - 2. SNOW REMOVAL FOR THE PROTECTED BIKE/PED LANE IS MORE CHALLENGING.
  - 3. THE VEHICULAR TRAVEL LANES ARE SIGNIFICANTLY OFFSET FROM THE CENTER OF THE RIGHT-OF-WAY. THIS OFFSET MAY CAUSE CONFUSION WITH SOME MOTORISTS.
  - 4. CONSTRUCTION TOLERANCES ARE LOW TO ENSURE THAT PEDESTRIAN LANE MEETS ADA REQUIREMENTS.

OWNER:  
ELIZABETHTOWN BOROUGH  
600 SOUTH HANOVER STREET  
ELIZABETHTOWN, PA 17022