

CITY COUNCIL

The City of Orange Township, New Jersey

DATE June 7, 2023

NUMBER 238-2023

TITLE: A RESOLUTION AUTHORIZING APPROVAL TO SUBMIT A GRANT APPLICATION WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION FOR THE CITY OF ORANGE TOWNSHIP ROADWAY IMPROVEMENTS FOR 2023 NJDOT LOCAL TRANSPORTATION PROJECTS FUND GRANT-LTPF-2023-BELL ST, E. HIGHLAND AVE, FRANKF-00141.

WHEREAS, the City of Orange Township wishes to improve its streets for the traveling public and its residents alike,

NOW, THEREFORE, BE IT RESOLVED that the Council of the City of Orange Township, formally approves the grant application for the above state project.

BE IT FURTHER RESOLVED that the Mayor of the City of Orange Township and Municipal Clerk are hereby authorized to submit an electronic grant application identified as (LTPF-2023-Bell St., E. Highland Ave., Frankf-00141) to the New Jersey Department of Transportation on behalf of the City of Orange Township.

BE IT FURTHER RESOLVED that the Mayor of the City of Orange Township and Municipal Clerk are hereby authorized to sign the grant agreement on behalf of the City of Orange Township and that their signature constitutes acceptance of the terms and conditions of the grant agreement and approves the execution of the grant agreement.

Adopted: June 7, 2023

Joyce L. Lanier
City Clerk


Tency A. Eason
Council President

The Mayor's signature and the Clerk's seal serve to acknowledge the above resolution and constitute acceptance of the terms and conditions of the grant agreement and approve the execution of the grant agreement as authorized by the resolution above.

ATTEST and AFFIX SEAL

Joyce L. Lanier
City Clerk

Hon. Dwayne D. Warren, Esq.
Mayor

 *W. McZurrah*

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141

Type of Improvement: 1

Infrastructure	Purpose
() Bikeway	Primary project purpose is for constructing new bikeways (e.g. bike lanes, bike paths, bike compatible roadways).
() Bridge Preservation	Primary project purpose is for improving the condition of bridge infrastructure (e.g. new deck, rehabilitation, replacement).
() Mobility	Primary project purpose is to enhance mobility and reduce congestion (e.g. adding lanes, park & ride, signal optimization).
() Pedestrian Safety	Primary project purpose is to enhance pedestrian safety (e.g. new sidewalks, new crosswalks, traffic calming, pedestrian overpass).
() Quality of Life	Primary project purpose is for beautification, environmental mitigation, economic development or historic preservation.
(✓) Roadway Preservation	Primary project purpose is for improving the condition of roadway infrastructure (e.g. resurfacing, reconstruction, drainage).
() Roadway Safety	Primary project purpose is to enhance vehicular safety (e.g. guide rail, signing, warning devices, striping).
() Other	Primary category purpose is to categorize a type of project not identified above.

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Project Information: Bell St., E. Highland Ave., Frankfort St., Hayward St., Heywood St.,
Improvement Project

Project Title:

DO NOT use generic names like "Various Streets", "Roadway Resurfacing Program", "2022 Resurfacing program" for project title. We encourage you to use more specific names like "Main St, First Ave, and Second St Improvements". Please refrain from typing project names in all capital letters.

Bell St., E. Highland Ave., Frankfort St., Hayward St., Heywood St.. Improvement Project

GIS Upload

Please click on the link below to open the GIS mapping tool. Once the GIS mapping tool is opened, please use the drawing tool to show the new project limits. Once you have identified the project limits, please download the map from the GIS mapping tool and upload it in the Project Location Map upload below.

GIS Mapping tool: <http://nidotocalaidrc.com/mapmaker>

Project Location Map: https://njsage.intelligrants.com/_Upload/2933658_2016194-OrangeProjectLocationMapLTPF2023.pdf

Once project limits are identified on the map, please enter the Project Location information in the fields below. You can enter up to three locations.

Location	From:	To:	Route Identifier	Milepost From	Milepost To	Project Distance
1. Bell Street	Madison Street	Main Street	07171118	0.2	0	0.2
2. East Highland Avenue	S. Center Street	East Orange Border	07171021	0.7	0.65	0.05
3. Frankfort Street	Scotland Road	Matthew Street	07000638	4.32	0.95	0

Traffic Volume Current ADT	Truck Traffic Over 5 tons (%)	Commuter Bus Route (Yes/No)	Construction Cost
1. 2700	1	Yes () No (<input checked="" type="checkbox"/>)	\$303,180.00
2. 2700	1	Yes (<input checked="" type="checkbox"/>) No ()	\$159,149.00

Local Transportation Projects Fund 2023

LTPF-2023-Bell St., E. Highland Ave., Frankf-00141

Project Information: Bell St., E. Highland Ave., Frankfort St., Hayward St., Heywood St..
Improvement Project

3. 2700 Yes () No () \$197,694.00

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Project Location

County to filter by:

Municipalities:

Essex County

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Scope Of Work

The City of Orange Township is seeking funding from the Local Transportation Projects Fund 2023 to complete the milling and paving of 15 local roadways that are in critical need of improvements. Portions of the project may involve minor streetscape or street improvement components, including the restoration of deteriorated and cracked sidewalks and curbing, pot holes, and dilapidated sidewalk ramps that do not conform to ADA standards.

We have found that the structural integrity of these roadways has been compromised and they are beginning to fail. Because these roads serve as critical traffic routes through Orange, it is imperative to maintain access and serviceability to the City's residents and businesses. The Orange Department of Public Works and Engineering Departments have identified the following roads as those in most need of repair, their boundaries amount to 2.02 miles in length:

1. Seven Oaks Way: Reynolds Terrace to Dead End
 2. Highland Terrace: Highland Avenue to Dead End
 3. Hayward Street: Thomas Boulevard to City of Orange Township Limits
 4. Washington Street: N. Center Street to City of Orange Township Limits
 5. Ivy Court: S. Center Street to Dead End
 6. Frankfort Street: Scotland Road to Lincoln Avenue
 7. Joyce Street: Scotland Road to City of Orange Township Limits
 8. Madison Street: Bell Street to S. Jefferson Street
 9. Bell Street: Main Street to Madison Street
 10. *E. Highland Avenue: S. Center Street to City of Orange Township Limits
 11. Valley Street: Union Street to Tremont Avenue
 12. Tremont Court: Tremont Avenue to Dead End
 13. Heywood Avenue: Berkeley Avenue to Mosswood Avenue
 14. North Jefferson Street: White Street to Main Street
 15. Mountainview Avenue: Lincoln Avenue to Scotland Road
- *E. Highland Ave blocks are split across Monte Irvin Orange Park (S. Center St to Orange Park and Orange Park to City Limits)

The goal is to repave each roadway listed above in an effort to reduce hazards, provide a smooth riding surface for motorists, and safe, functional streets and sidewalks for pedestrians. It is well-known that deteriorating roads have a significant negative impact on vehicle health and performance, increase fuel consumption, and ultimately result in greater expense for road users. The City's continuous pavement management efforts allow for routine maintenance and minor roadway surfacing activities, but is unable to meet the mounting need for significant pavement restoration projects across the entirety of the City's street network. The proposed scope of work includes: milling each road, street surface sweep clean and tack coat, and installation of new asphalt pavement at 4 inches in depth. These activities are proposed in order to remedy the most common issues that are prevalent on Orange's roadways: fatigue cracking, longitudinal cracking, slippage cracking, and areas of potholes and utility patches that aggravate the driving surface. The scope of work also includes the installation of minor finishing elements (where necessary) including: replacement of sidewalks and curbing, reseeding, and restriping of appropriate traffic markings. Construction will also include the installation of ADA-compliant curb ramps where insufficient or nonexistent.

Location Map - 8.5 x 11 only - showing project limits

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Scope Of Work

[https://njsage.intelligrants.com/_Upload/2933652_2016353-NJDOT2023\(LTPF\)RdwayMap.pdf](https://njsage.intelligrants.com/_Upload/2933652_2016353-NJDOT2023(LTPF)RdwayMap.pdf)

Note: All information must be clear and legible with street names labeled.

You may include photos with your application by uploading them here:

https://njsage.intelligrants.com/Upload/2933652_2016360-2023LTPFOrange-Photos.pdf

Does this project include a traffic signal? Yes No
If Yes, Please attach authorization to design or install if available.

Will the project meet AASHTO standards? Yes No

Project must adhere to ADA design and construction standards as per AASHTO.
If No, list Design Exceptions below

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Roadway Data Sheet

Project Classification

Please check the one most applicable:

- Resurfacing
- Reconstruction
- Surface Treatment
- Drainage
- Widening
- New Roadway

Existing Road Conditions. Please enter minimum Widths. If not known enter Zero.

Note: if your application includes various locations use a weighted average value according to distance.

Current ADT: 50
Truck Traffic over 5 Tons (%): 0
Legal Speed Limit (mph): 25
Right of Way Width (feet): 50
Is this Project located on a Commuter Bus Route? Yes No
Pavement Width (feet): 35
Shoulder Width (feet): 0

Curbing: One Side Both Sides Neither
Sidewalk: One Side Both Sides Neither
Existing Minimum Width (feet): 0

Parking Restrictions: Alternate side parking

Are there any public facilities within 1/2 mile of the project limits? (e.g. Retail centers, school, worship place, library, fire station, etc.?)

There are various public facilities within the project limits including local restaurants, businesses, grocery stores, municipal buildings, and houses of worship. In addition, the following schools are within the project limits: Park Avenue Elementary School, Lincoln Avenue School, Orange High School, Orange Preparatory Academy, Hazel Avenue Elementary School, Forest Street Elementary School, Heywood Avenue Elementary School. The Orange Fire Department and Monte Irvin Orange Park are also located within project limits.

If the project improves safety, please explain below

The proposed project includes numerous safety improvements, including the addition of necessary pedestrian and bicycle infrastructure where it is in disrepair or lacking altogether. Other safety improvements include pedestrian safety striping, sidewalks and curb ramps, and drainage improvements. Visibility improvements

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Roadway Data Sheet

such as crosswalk striping and lane striping will improve the safety of the roadways for all users. The inclusion of improved drainage features in the project areas will provide further safety benefits. Orange is prone to flooding incidents which negatively affect the integrity of the roadways and can create dangerous situations for drivers, cyclists, and pedestrians. New catch basins and other drainage improvements to roadways will mitigate these flooding issues.

Additionally, there are many areas where sidewalks, curbing, and curb ramps have become severely dilapidated. Curb ramps such as the one on Washington Street have deteriorated heavily, whereas other areas like Madison Street lack them entirely. It would be potentially hazardous for any person with a disability to traverse these failing sidewalks and ramps, and repairing them to ADA standards will not only improve safety and greatly increase the quality of life for all Orange residents.

Proposed Improvements. Please enter minimum Widths. If not known enter Zero.

Right of Way Width (feet): 50
Pavement Width (feet): 35
Shoulder Width (feet): 0

Curbing: () One Side () Both Sides () Neither
Sidewalk: () One Side () Both Sides () Neither
Proposed Minimum Width (feet): 0

Parking Restrictions: Alternate side parking

Is there an existing bridge being replaced or repaired? () Yes () No

If Yes, please return to the Main Menu and begin a new application with **Bridge Preservation** selected on the Type of Improvement page.

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Total Estimated Cost of Improvement

Construction Cost: **\$2,587,614.50**

Please attach a Detailed Construction Cost Estimate
(Word, Excel, or PDF format please)

https://nisage.intelligrants.com/Upload/2933656_2016365-CostEstimates-NJDOTLTPF'23Orange.pdf

Design Engineering: **\$129,380.00**
(Eligible for up to 5% of Grant Amount)

Right-of-Way: **\$0**
(List only if eligible for Urban Aid or as a Depressed Rural Center)

Construction Inspection and Material Testing if requesting: **\$232,885.00**
(15% of the final allowable construction cost maximum)

Total Estimated Cost: **\$2,949,879.50**

Total Requested Amount **\$2,949,879.50**

If you have submitted or plan to submit other applications, please prioritize your applications by assigning them a priority rating. Use number 1 for the highest priority. If you only plan to submit this application, please enter 1 as the priority rating: **1**

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Local Aid & Legislative Districts

Legislative Districts:

Local Aid Districts: **District 2, Trenton**

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Applicant Information

Name of Grantee: Orange City Township

Organization Address
Orange City Township
29 North Day Street
Orange, NJ 07050-3608
Phone: (973) 266-4005
Fax: (973) 676-7459

Email Address:

Federal Tax Identification Number: 226002178
Vendor Number: 226002178-00
Vendor Unit: ORANGE CITY
Vendor Unit Address 29 N DAY ST
ORANGE, NJ 07050

Application Initiation Date: 05/04/2023

Municipality applicants should update Mayor, Clerk and Municipal Engineer Information. County applicants should update County Executive/Freeholder Director, Clerk and County Engineer Information.

Mayor Information

First Name:
Last Name:
County:
Municipality:
Address 1:
Address 2:
City:
State:
Zip:
Phone:
E-Mail:

Update information here:

Dwayne
Warren
Essex
Orange City Township
29 North Day Street

Orange City Township
New Jersey
07050
973-266-4005
dwarren@orangenj.gov

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Applicant Information

Clerk Information

First Name:
Last Name:
County:
Municipality:
Address 1:
Address 2:
City:
State:
Zip:
Phone:
E-Mail:

Update information here:

Joyce
Lanier
Essex
Orange City Township
29 North Day Street

Orange City Township
New Jersey
07050
973-266-4025
jlanier@orangenj.gov

Municipal Engineer

First Name:
Last Name:
County:
Municipality:
Address 1:
Address 2:
City:
State:
Zip:
Phone:
E-Mail:

Update information here:

Joe
Barbadoro
Essex
Orange City Township
29 North Day Street

Orange City Township
New Jersey
07050
973-266-4029
Joe.Barbadoro@rve.com

Local Transportation Projects Fund 2023
LTPF-2023-Bell St., E. Highland Ave., Frankf-00141
Signature Page

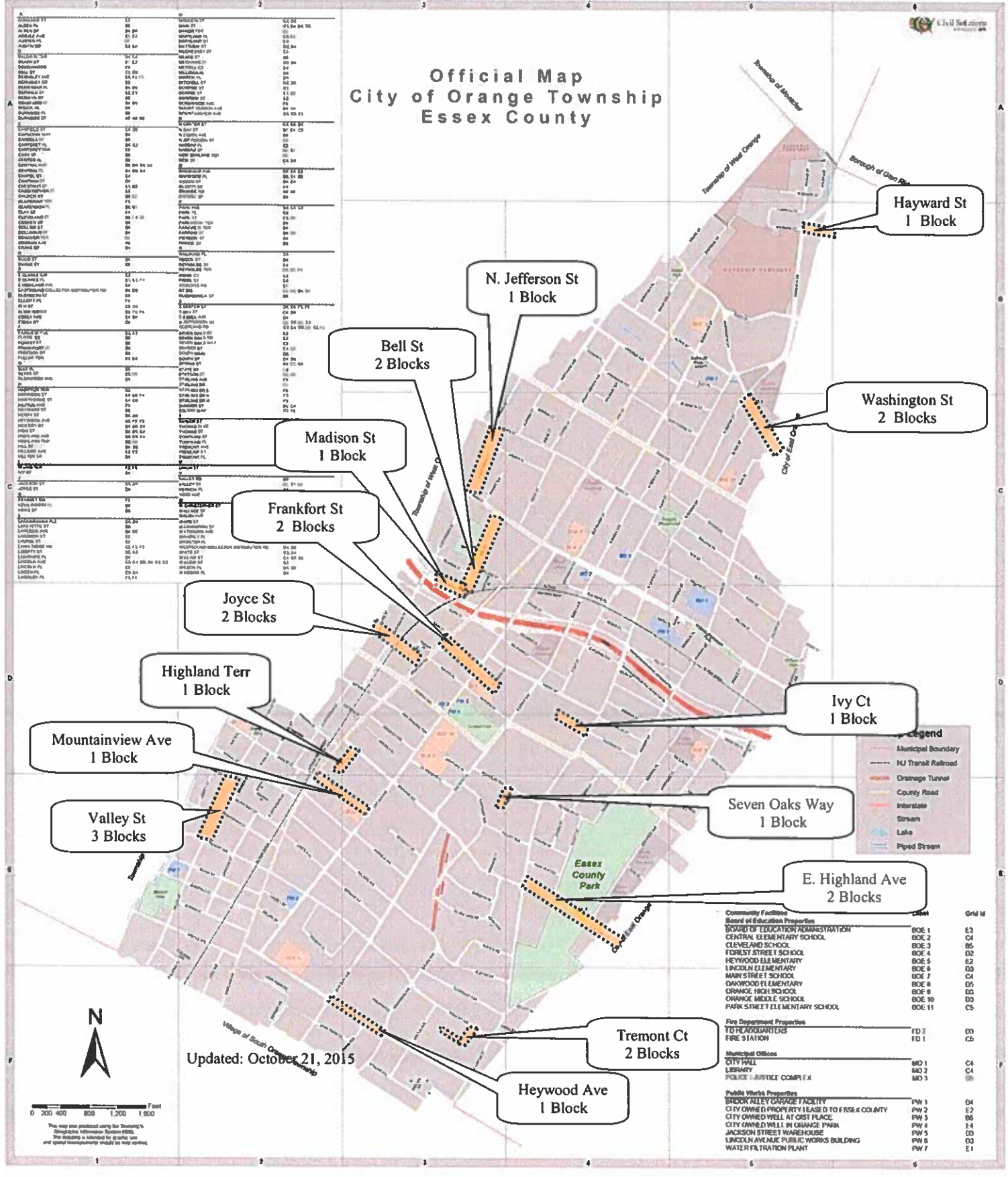
Title of presiding officer who will be signing this application/agreement: Mayor

Please [Click here](#) download the attached Resolution/Agreement, complete, sign/seal and submit electronically *at the time of application*.

Failure to submit the resolution/agreement electronically through NJDOT SAGE will prohibit the NJDOT from considering your project for funding. Three (3) original copies of the resolution/agreement should be submitted to the Local Aid District Office within 30 days from your application submission date.

Orange Roads: NJDOT 2023 (Local Transportation Program Fund)

Official Map City of Orange Township Essex County



Hayward St
1 Block

N. Jefferson St
1 Block

Bell St
2 Blocks

Washington St
2 Blocks

Madison St
1 Block

Frankfort St
2 Blocks

Joyce St
2 Blocks

Highland Terr
1 Block

Ivy Ct
1 Block

Mountainview Ave
1 Block

Seven Oaks Way
1 Block

Valley St
3 Blocks

E. Highland Ave
2 Blocks

Tremont Ct
2 Blocks

Heywood Ave
1 Block

Legend

- Municipal Boundary
- NJ Transit Railroad
- Drainage Tunnel
- County Road
- Interstate
- Stream
- Lake
- Piped Stream

Community Facilities	Block	Grid Id
Board of Education Properties		
BOARD OF EDUCATION ADMINISTRATION	BOE 1	E3
CENTRAL ELEMENTARY SCHOOL	BOE 2	C4
CLEVELAND SCHOOL	BOE 3	D5
FOREST STREET SCHOOL	BOE 4	D2
HEWWOOD ELEMENTARY	BOE 5	E2
LINCOLN ELEMENTARY	BOE 6	D3
MARY STREET SCHOOL	BOE 7	C4
ORANGEWOOD ELEMENTARY	BOE 8	D5
ORANGE HIGH SCHOOL	BOE 9	D6
ORANGE MIDDLE SCHOOL	BOE 10	D3
PARK STREET ELEMENTARY SCHOOL	BOE 11	C5
Fire Department Properties		
FIRE STATION	FD 1	D5
Municipal Offices		
CITY HALL	MO 1	C4
LIBRARY	MO 2	C4
POLICE - JUSTICE COMPLEX	MO 3	D6
Public Works Properties		
BROOK ALLEY GARAGE FACILITY	PW 1	D4
CITY OWNED PROPERTY LEASED TO ESSEX COUNTY	PW 2	E2
CITY OWNED WELL AT CREST PLACE	PW 3	D6
CITY OWNED WELL IN ORANGE PARK	PW 4	E4
JACKSON STREET WAREHOUSE	PW 5	D3
LINCOLN AVENUE PUBLIC WORKS BUILDING	PW 6	D3
WATER FILTRATION PLANT	PW 7	E1

Updated: October 21, 2015



This map was produced using the Township's Geographic Information System (GIS). This information is intended for general use and special measurements should be made on-site.



Engineer's Estimate - NJDOT LTPF 2023

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: COORT23002P

DATE: 3/31/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	ALL STREETS	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	2,870	CY	\$ 35.00	\$ 100,450.00
2	HMA MILLING, 3" OR LESS	27,048	SY	\$ 10.00	\$ 270,480.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	7,151	SY	\$ 5.00	\$ 35,754.50
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	6,523	TON	\$ 95.00	\$ 619,685.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	2,499	TON	\$ 90.00	\$ 224,910.00
6	TACK COAT	4,810	GAL	\$ 1.00	\$ 4,810.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	3,230	SY	\$ 5.00	\$ 16,150.00
8	NEW MANHOLE, IF & WHERE DIRECTED	7	UNIT	\$ 5,000.00	\$ 35,000.00
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	51	UNIT	\$ 650.00	\$ 33,150.00
10	RESET WATER VALVE BOX	153	UNIT	\$ 10.00	\$ 1,530.00
11	RESET GAS VALVE BOX	170	UNIT	\$ 10.00	\$ 1,700.00
12	RESET AND REPLACE INLET CASTING	39	UNIT	\$ 1,000.00	\$ 39,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	6	UNIT	\$ 5,000.00	\$ 30,000.00
14	RCP CLASS V, 15", IF & WHERE DIRECTED	10	LF	\$ 35.00	\$ 350.00
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	2,004	SY	\$ 70.00	\$ 140,280.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	141	UNIT	\$ 50.00	\$ 7,050.00
17	REGULATORY AND WARNING SIGNS	168	UNIT	\$ 50.00	\$ 8,400.00
18	CONCRETE SIDEWALK, 4" THICK	7,292	SY	\$ 65.00	\$ 473,980.00
19	8"x18" CONCRETE VERTICAL CURB	11,260	LF	\$ 30.00	\$ 337,800.00
20	DETECTABLE WARNING SURFACE	83	UNIT	\$ 280.00	\$ 23,240.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	1,821	SY	\$ 75.00	\$ 136,575.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	300	LF	\$ 2.00	\$ 600.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	300	LF	\$ 4.00	\$ 1,200.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	427	LF	\$ 6.00	\$ 2,562.00
25	TREE & STUMP REMOVAL. 12"-24", IF AND WHERE DIRECTED	12	UNIT	\$ 1,500.00	\$ 18,000.00
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	2	UNIT	\$ 3,000.00	\$ 6,000.00
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	15	UNIT	\$ 350.00	\$ 5,250.00
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	465	SY	\$ 5.00	\$ 2,325.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	465	SY	\$ 1.00	\$ 465.00
30	STRAW MULCHING, IF & WHERE DIRECTED	465	SY	\$ 1.00	\$ 465.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	75	UNIT	\$ 1.00	\$ 75.00
32	DRUM, IF & WHERE DIRECTED	150	UNIT	\$ 1.00	\$ 150.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	150	UNIT	\$ 1.00	\$ 150.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	78	UNIT	\$ 1.00	\$ 78.00
35	Fuel Cost Adjustment	1	LS	\$ 1,800.00	\$ 1,800.00
36	Asphalt Price Adjustment	1	LS	\$ 8,200.00	\$ 8,200.00

Total construction cost	\$ 2,587,614.50
Design Fee	\$ 232,885.31
Construction Fee	\$ 232,885.31
Total project cost	\$ 3,053,385.11

Stephen Hoyt
Professional Engineer
New Jersey License Number 24GE054015



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

Bell Street (Madison Str to Main Str)

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	3,980	SY	\$ 10.00	\$ 39,800.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	1,393	SY	\$ 5.00	\$ 6,965.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	657	TON	\$ 95.00	\$ 62,415.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	383	TON	\$ 90.00	\$ 34,470.00
6	TACK COAT	220	GAL	\$ 1.00	\$ 220.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	250	SY	\$ 5.00	\$ 1,250.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	3	UNIT	\$ 650.00	\$ 1,950.00
10	RESET WATER VALVE BOX	7	UNIT	\$ 10.00	\$ 70.00
11	RESET GAS VALVE BOX	10	UNIT	\$ 10.00	\$ 100.00
12	RESET AND REPLACE INLET CASTING	1	UNIT	\$ 1,000.00	\$ 1,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 95.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	65	SY	\$ 70.00	\$ 4,550.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	6	UNIT	\$ 50.00	\$ 300.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	1,250	SY	\$ 65.00	\$ 81,250.00
19	9"x18" CONCRETE VERTICAL CURB	1,340	LF	\$ 30.00	\$ 40,200.00
20	DETECTABLE WARNING SURFACE	6	UNIT	\$ 280.00	\$ 1,680.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	250	SY	\$ 75.00	\$ 18,750.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	100	LF	\$ 6.00	\$ 600.00
25	TREE & STUMP REMOVAL. 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 303,180.00
					Design Fee \$ 27,286.20
					Construction Fee \$ 27,286.20
					Total project cost \$ 357,752.40

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



East Highland Avenue (S Center St to E. Orange border)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 95.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,383	SY	\$ 10.00	\$ 13,830.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	486	SY	\$ 5.00	\$ 2,430.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	229	TON	\$ 95.00	\$ 21,755.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	134	TON	\$ 90.00	\$ 12,060.00
6	TACK COAT	80	GAL	\$ 1.00	\$ 80.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	200	SY	\$ 5.00	\$ 1,000.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	2	UNIT	\$ 650.00	\$ 1,300.00
10	RESET WATER VALVE BOX	4	UNIT	\$ 10.00	\$ 40.00
11	RESET GAS VALVE BOX	7	UNIT	\$ 10.00	\$ 70.00
12	RESET AND REPLACE INLET CASTING	1	UNIT	\$ 1,000.00	\$ 1,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 95.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	65	SY	\$ 70.00	\$ 4,550.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	4	UNIT	\$ 50.00	\$ 200.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	710	SY	\$ 65.00	\$ 46,150.00
19	9"X18" CONCRETE VERTICAL CURB	1,050	LF	\$ 30.00	\$ 31,500.00
20	DETECTABLE WARNING SURFACE	4	UNIT	\$ 280.00	\$ 1,120.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	150	SY	\$ 75.00	\$ 11,250.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	24	LF	\$ 6.00	\$ 144.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	2	UNIT	\$ 1,500.00	\$ 3,000.00
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 159,149.00
					Design Fee \$ 14,923.41
					Construction Fee \$ 14,923.41
					Total project cost \$ 187,995.82

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Frankfort Street (Scotland Rd to Matthew St)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 95.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,655	SY	\$ 10.00	\$ 16,550.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	579	SY	\$ 5.00	\$ 2,895.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	273	TON	\$ 95.00	\$ 25,935.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	159	TON	\$ 90.00	\$ 14,310.00
6	TACK COAT	90	GAL	\$ 1.00	\$ 90.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	200	SY	\$ 5.00	\$ 1,000.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	3	UNIT	\$ 650.00	\$ 1,950.00
10	RESET WATER VALVE BOX	9	UNIT	\$ 10.00	\$ 90.00
11	RESET GAS VALVE BOX	10	UNIT	\$ 10.00	\$ 100.00
12	RESET AND REPLACE INLET CASTING	2	UNIT	\$ 1,000.00	\$ 2,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	95	SY	\$ 70.00	\$ 6,650.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	6	UNIT	\$ 50.00	\$ 300.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	850	SY	\$ 65.00	\$ 55,250.00
19	9"x18" CONCRETE VERTICAL CURB	1,390	LF	\$ 30.00	\$ 41,700.00
20	DETECTABLE WARNING SURFACE	4	UNIT	\$ 280.00	\$ 1,120.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	200	SY	\$ 75.00	\$ 15,000.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	24	LF	\$ 6.00	\$ 144.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 197,694.00
					Design Fee \$ 17,792.48
					Construction Fee \$ 17,792.48
					Total project cost \$ 233,278.92

Stephan C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Hayward Street (Thomas Blvd to E. Orange Border)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,290	SY	\$ 10.00	\$ 12,900.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	123	SY	\$ 5.00	\$ 615.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	585	TON	\$ 95.00	\$ 55,575.00
5	HOT MIX ASPHALT 19M64 BASE COURSE; 4" THICK, IF & WHERE DIRECTED	293	TON	\$ 90.00	\$ 26,370.00
6	TACK COAT	800	GAL	\$ 1.00	\$ 800.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	300	SY	\$ 5.00	\$ 1,500.00
8	NEW MANHOLE, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	0	UNIT	\$ 650.00	\$ -
10	RESET WATER VALVE BOX	15	UNIT	\$ 10.00	\$ 150.00
11	RESET GAS VALVE BOX	15	UNIT	\$ 10.00	\$ 150.00
12	RESET AND REPLACE INLET CASTING	4	UNIT	\$ 1,000.00	\$ 4,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	70	SY	\$ 70.00	\$ 4,900.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	25	UNIT	\$ 50.00	\$ 1,250.00
17	REGULATORY AND WARNING SIGNS	25	UNIT	\$ 50.00	\$ 1,250.00
18	CONCRETE SIDEWALK, 4" THICK	0	SY	\$ 65.00	\$ -
19	9"X18" CONCRETE VERTICAL CURB	0	LF	\$ 30.00	\$ -
20	DETECTABLE WARNING SURFACE	7	UNIT	\$ 280.00	\$ 1,960.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	21	SY	\$ 75.00	\$ 1,575.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	11	LF	\$ 6.00	\$ 63.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	1	UNIT	\$ 1,500.00	\$ 1,500.00
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 3.00	\$ 90.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 126,918.00
					Design Fee \$ 11,368.62
					Construction Fee \$ 11,368.62
					Total project cost \$ 149,655.24

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Heywood Ave (Berkeley Ave to Mosswood Ave)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,980	SY	\$ 10.00	\$ 19,800.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	198	SY	\$ 5.00	\$ 990.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	390	TON	\$ 95.00	\$ 37,050.00
5	HOT MIX ASPHALT 19M64 BASE COURSE; 4" THICK, IF & WHERE DIRECTED	39	TON	\$ 90.00	\$ 3,510.00
6	TACK COAT	350	GAL	\$ 1.00	\$ 350.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	250	SY	\$ 5.00	\$ 1,250.00
8	NEW MANHOLE, IF & WHERE DIRECTED	4	UNIT	\$ 5,000.00	\$ 20,000.00
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	12	UNIT	\$ 650.00	\$ 7,800.00
10	RESET WATER VALVE BOX	30	UNIT	\$ 10.00	\$ 300.00
11	RESET GAS VALVE BOX	30	UNIT	\$ 10.00	\$ 300.00
12	RESET AND REPLACE INLET CASTING	0	UNIT	\$ 1,000.00	\$ -
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
14	RCP CLASS V, 15", IF & WHERE DIRECTED	10	LF	\$ 35.00	\$ 350.00
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	140	SY	\$ 70.00	\$ 9,800.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	14	UNIT	\$ 50.00	\$ 700.00
17	REGULATORY AND WARNING SIGNS	14	UNIT	\$ 50.00	\$ 700.00
18	CONCRETE SIDEWALK, 4" THICK	0	SY	\$ 65.00	\$ -
19	9"x18" CONCRETE VERTICAL CURB	0	LF	\$ 30.00	\$ -
20	DETECTABLE WARNING SURFACE	10	UNIT	\$ 280.00	\$ 2,800.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	30	SY	\$ 75.00	\$ 2,250.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	15	LF	\$ 6.00	\$ 90.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	5	UNIT	\$ 1,500.00	\$ 7,500.00
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	2	UNIT	\$ 3,000.00	\$ 6,000.00
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	7	UNIT	\$ 350.00	\$ 2,450.00
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00

Construction Cost	\$ 136,350.00
Design Fee	\$ 12,271.50
Construction Fee	\$ 12,271.50
Total project cost	\$ 160,893.00

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

Highland Terr (Highland Ave to Dead End)

PROJECT NAME: N/DOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,400	SY	\$ 10.00	\$ 14,000.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	140	SY	\$ 5.00	\$ 700.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	585	TON	\$ 95.00	\$ 55,575.00
5	HOT MIX ASPHALT 19M64 BASE COURSE; 4" THICK, IF & WHERE DIRECTED	283	TON	\$ 90.00	\$ 26,370.00
6	TACK COAT	800	GAL	\$ 1.00	\$ 800.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	300	SY	\$ 5.00	\$ 1,500.00
8	NEW MANHOLE, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	0	UNIT	\$ 650.00	\$ -
10	RESET WATER VALVE BOX	15	UNIT	\$ 10.00	\$ 150.00
11	RESET GAS VALVE BOX	15	UNIT	\$ 10.00	\$ 150.00
12	RESET AND REPLACE INLET CASTING	4	UNIT	\$ 1,000.00	\$ 4,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	70	SY	\$ 70.00	\$ 4,900.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	25	UNIT	\$ 50.00	\$ 1,250.00
17	REGULATORY AND WARNING SIGNS	25	UNIT	\$ 50.00	\$ 1,250.00
18	CONCRETE SIDEWALK, 4" THICK	0	SY	\$ 65.00	\$ -
19	9"x18" CONCRETE VERTICAL CURB	0	LF	\$ 90.00	\$ -
20	DETECTABLE WARNING SURFACE	7	UNIT	\$ 280.00	\$ 1,960.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	21	SY	\$ 75.00	\$ 1,575.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	11	LF	\$ 6.00	\$ 63.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	1	UNIT	\$ 1,500.00	\$ 1,500.00
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 128,103.00
					Design Fee \$ 11,529.27
					Construction Fee \$ 11,529.27
					Total project cost \$ 151,161.54

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Ivy Court (South Center Street to End of Road)

PENNONI ASSOCIATES INC. CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

Table with 6 columns: ITEM NO, DESCRIPTION, QUANTITY, UNIT, UNIT PRICE, PROJECT TOTAL. Contains 34 rows of construction items and their associated costs.

Summary table with 2 columns: Category, Amount. Rows include Construction Cost (\$63,053.00), Design Fee (\$5,674.77), Construction Fee (\$5,674.77), and Total project cost (\$74,402.54).

Handwritten signature of Stephen C. Hoyt

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Joyce Street (Scotland Rd to W. Orange Border)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	3,093	SY	\$ 10.00	\$ 30,930.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	1,083	SY	\$ 5.00	\$ 5,415.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	510	TON	\$ 95.00	\$ 48,450.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	288	TON	\$ 90.00	\$ 26,820.00
6	TACK COAT	180	GAL	\$ 1.00	\$ 180.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	250	SY	\$ 5.00	\$ 1,250.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	4	UNIT	\$ 650.00	\$ 2,600.00
10	RESET WATER VALVE BOX	7	UNIT	\$ 10.00	\$ 70.00
11	RESET GAS VALVE BOX	10	UNIT	\$ 10.00	\$ 100.00
12	RESET AND REPLACE INLET CASTING	6	UNIT	\$ 1,000.00	\$ 6,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	65	SY	\$ 70.00	\$ 4,550.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	6	UNIT	\$ 50.00	\$ 300.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	850	SY	\$ 65.00	\$ 55,250.00
19	9"x18" CONCRETE VERTICAL CURB	1,270	LF	\$ 30.00	\$ 38,100.00
20	DETECTABLE WARNING SURFACE	5	UNIT	\$ 280.00	\$ 1,400.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	210	SY	\$ 75.00	\$ 15,750.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	24	LF	\$ 6.00	\$ 144.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 950.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 249,918.00
					Design Fee \$ 22,492.71
					Construction Fee \$ 22,492.71
					Total project cost \$ 294,904.42

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Madison Street (Bell St to S. Jefferson St)

PENNONI ASSOCIATES INC. CONSULTING ENGINEERS

PROJECT NAME: NIDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

Table with 6 columns: ITEM NO, DESCRIPTION, QUANTITY, UNIT, UNIT PRICE, PROJECT TOTAL. Rows 1-34 detailing construction items like excavation, milling, aggregate base, asphalt courses, tack coat, manholes, valves, inlets, concrete driveway, signs, sidewalks, curbs, ramps, traffic stripes, tree removal, topsoiling, fertilizing, mulching, barricade, drum, traffic cone, and construction signs.

Summary table with 2 columns: Item Name, Amount. Rows: Construction Cost (\$195,055.00), Design Fee (\$17,554.95), Construction Fee (\$17,554.95), Total project cost (\$230,164.90).

Handwritten signature of Stephen C. Hoyt

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Mountainview Avenue (Scotland Rd to Lincoln Ave)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,005	SY	\$ 10.00	\$ 10,050.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	952	SY	\$ 5.00	\$ 1,760.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	166	TON	\$ 95.00	\$ 15,770.00
5	HOT MIX ASPHALT 19M64 BASE COURSE; 4" THICK, IF & WHERE DIRECTED	97	TON	\$ 90.00	\$ 8,730.00
6	TACK COAT	60	GAL	\$ 1.00	\$ 60.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	150	SY	\$ 5.00	\$ 750.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	2	UNIT	\$ 650.00	\$ 1,300.00
10	RESET WATER VALVE BOX	0	UNIT	\$ 10.00	\$ -
11	RESET GAS VALVE BOX	0	UNIT	\$ 10.00	\$ -
12	RESET AND REPLACE INLET CASTING	3	UNIT	\$ 1,000.00	\$ 3,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 33.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	463	SY	\$ 70.00	\$ 32,410.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	0	UNIT	\$ 50.00	\$ -
17	REGULATORY AND WARNING SIGNS	25	UNIT	\$ 50.00	\$ 1,250.00
18	CONCRETE SIDEWALK, 4" THICK	850	SY	\$ 65.00	\$ 55,250.00
19	9"x18" CONCRETE VERTICAL CURB	700	LF	\$ 30.00	\$ 21,000.00
20	DETECTABLE WARNING SURFACE	6	UNIT	\$ 280.00	\$ 1,680.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	250	SY	\$ 75.00	\$ 18,750.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	24	LF	\$ 6.00	\$ 144.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00

Construction Cost	\$	184,264.00
Design Fee	\$	16,583.76
Construction Fee	\$	16,583.76
Total project cost	\$	217,431.52

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

N. Jefferson Street (White St to Main Street)

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,124	SY	\$ 10.00	\$ 11,240.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	993	SY	\$ 5.00	\$ 1,965.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	185	TON	\$ 95.00	\$ 17,575.00
5	HOT MIX ASPHALT 19M64 BASE COURSE; 4" THICK, IF & WHERE DIRECTED	108	TON	\$ 90.00	\$ 9,720.00
6	TACK COAT	70	GAL	\$ 1.00	\$ 70.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	300	SY	\$ 5.00	\$ 1,500.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	0	UNIT	\$ 650.00	\$ -
10	RESET WATER VALVE BOX	5	UNIT	\$ 10.00	\$ 50.00
11	RESET GAS VALVE BOX	5	UNIT	\$ 10.00	\$ 50.00
12	RESET AND REPLACE INLET CASTING	2	UNIT	\$ 1,000.00	\$ 2,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 95.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	572	SY	\$ 70.00	\$ 40,040.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	5	UNIT	\$ 50.00	\$ 250.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	782	SY	\$ 65.00	\$ 50,830.00
19	9"x18" CONCRETE VERTICAL CURB	860	LF	\$ 30.00	\$ 25,800.00
20	DETECTABLE WARNING SURFACE	5	UNIT	\$ 280.00	\$ 1,400.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	200	SY	\$ 75.00	\$ 15,000.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	24	LF	\$ 6.00	\$ 144.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
					Construction Cost \$ 185,244.00
					Design Fee \$ 16,671.96
					Construction Fee \$ 16,671.96
					Total project cost \$ 218,587.92

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Seven Oaks Way (Reynolds St to Dead End)

PENNONI ASSOCIATES INC. CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

Table with 6 columns: ITEM NO, DESCRIPTION, QUANTITY, UNIT, UNIT PRICE, PROJECT TOTAL. Contains 34 rows of project items such as EXCAVATION, HMA MILLING, and CONCRETE DRIVEWAY.

Summary table with 2 columns: Category, Amount. Rows include Construction Cost (\$207,624.00), Design Fee (\$18,586.16), Construction Fee (\$18,586.16), and Total project cost (\$244,996.32).

Handwritten signature of Stephen C. Hoyt, P.E.
Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



Tremont Court (Tremont Ave - Dead End)

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	1,612	SY	\$ 10.00	\$ 16,120.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	564	SY	\$ 5.00	\$ 2,820.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	266	TON	\$ 95.00	\$ 25,270.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	155	TON	\$ 90.00	\$ 13,950.00
6	TACK COAT	90	GAL	\$ 1.00	\$ 90.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	180	SY	\$ 5.00	\$ 900.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	1	UNIT	\$ 650.00	\$ 650.00
10	RESET WATER VALVE BOX	9	UNIT	\$ 10.00	\$ 90.00
11	RESET GAS VALVE BOX	10	UNIT	\$ 10.00	\$ 100.00
12	RESET AND REPLACE INLET CASTING	2	UNIT	\$ 1,000.00	\$ 2,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	95	SY	\$ 70.00	\$ 6,650.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	3	UNIT	\$ 50.00	\$ 150.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	0	SY	\$ 65.00	\$ -
19	9"X18" CONCRETE VERTICAL CURB	1,450	LF	\$ 30.00	\$ 43,500.00
20	DETECTABLE WARNING SURFACE	0	UNIT	\$ 280.00	\$ -
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	0	SY	\$ 75.00	\$ -
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	24	LF	\$ 6.00	\$ 144.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00

Construction Cost	\$ 120,044.00
Design Fee	\$ 10,803.96
Construction Fee	\$ 10,803.96
Total project cost	\$ 141,651.92

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

Valley Street (Union St to Tremont Ave)

PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: N/A

DATE: 3/8/2023
PREPARED BY: MB

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	200	CY	\$ 35.00	\$ 7,000.00
2	HMA MILLING, 3" OR LESS	2,204	SY	\$ 10.00	\$ 22,040.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	771	SY	\$ 5.00	\$ 3,855.00
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	384	TON	\$ 95.00	\$ 34,580.00
5	HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK, IF & WHERE DIRECTED	212	TON	\$ 90.00	\$ 19,080.00
6	TACK COAT	130	GAL	\$ 1.00	\$ 130.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	90	SY	\$ 5.00	\$ 450.00
8	NEW MANHOLE, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	4	UNIT	\$ 650.00	\$ 2,600.00
10	RESET WATER VALVE BOX	7	UNIT	\$ 10.00	\$ 70.00
11	RESET GAS VALVE BOX	10	UNIT	\$ 10.00	\$ 100.00
12	RESET AND REPLACE INLET CASTING	2	UNIT	\$ 1,000.00	\$ 2,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	2	UNIT	\$ 5,000.00	\$ 10,000.00
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	80	SY	\$ 70.00	\$ 5,600.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	4	UNIT	\$ 50.00	\$ 200.00
17	REGULATORY AND WARNING SIGNS	5	UNIT	\$ 50.00	\$ 250.00
18	CONCRETE SIDEWALK, 4" THICK	1,050	SY	\$ 65.00	\$ 68,250.00
19	9"X18" CONCRETE VERTICAL CURB	1,850	LF	\$ 30.00	\$ 55,500.00
20	DETECTABLE WARNING SURFACE	4	UNIT	\$ 280.00	\$ 1,120.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	180	SY	\$ 75.00	\$ 13,500.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	50	LF	\$ 6.00	\$ 300.00
25	TREE & STUMP REMOVAL 12"-24", IF AND WHERE DIRECTED	0	UNIT	\$ 1,500.00	\$ -
26	TREE & STUMP REMOVAL >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	30	SY	\$ 5.00	\$ 150.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
30	STRAW MULCHING, IF & WHERE DIRECTED	30	SY	\$ 1.00	\$ 30.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00

Construction Cost	\$ 246,985.00
Design Fee	\$ 22,228.65
Construction Fee	\$ 22,228.65
Total project cost	\$ 291,442.30

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

Washington Street (N. Center St to E. Orange Border)

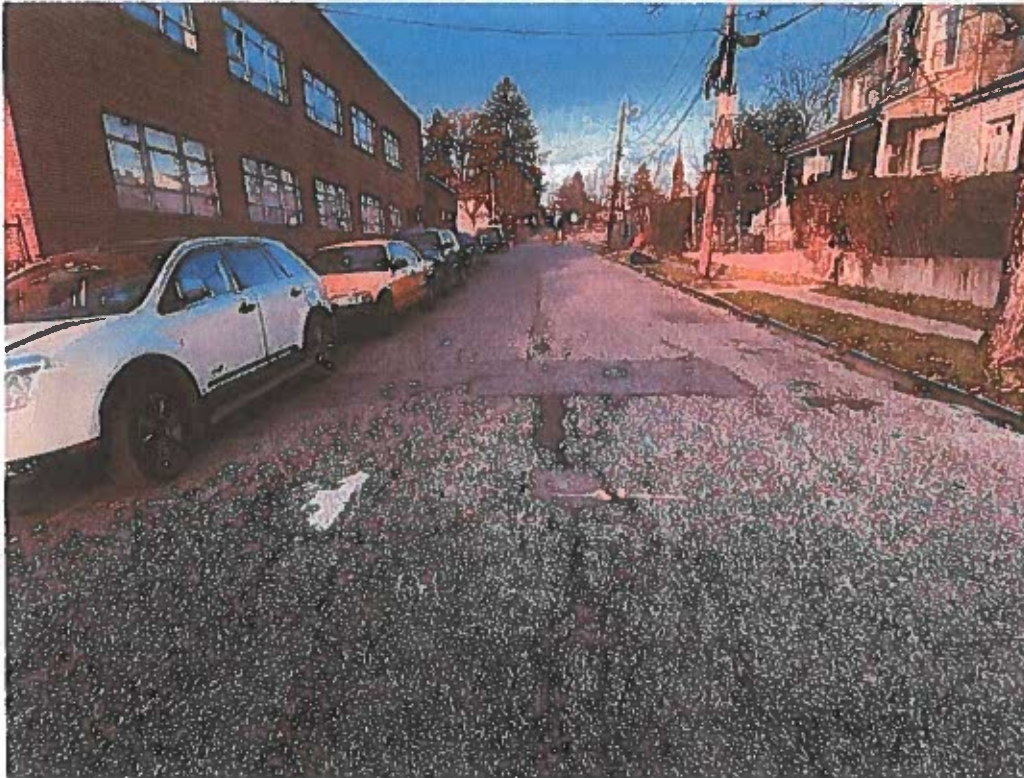
PROJECT NAME: NJDOT LTPF 2023 ROAD PAVING
PROJECT LOCATION: CITY OF ORANGE TOWNSHIP
PROJECT NUMBER: COORT23002P

DATE: 3/31/2023
PREPARED BY: MB

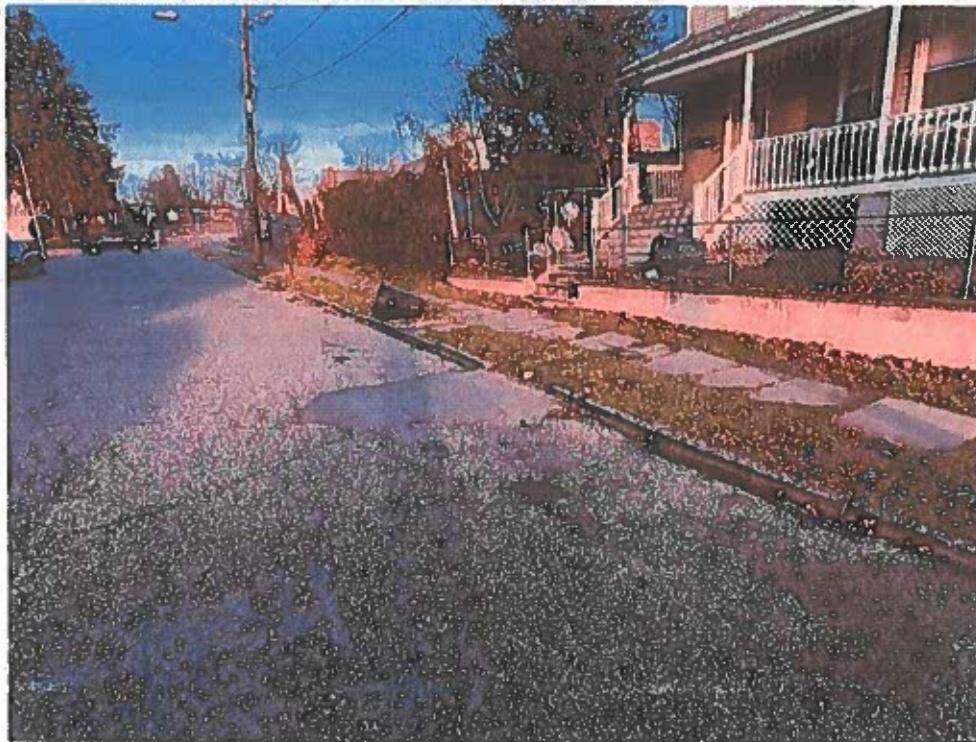
ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	PROJECT TOTAL
1	EXCAVATION, UNCLASSIFIED, IF & WHERE DIRECTED	70	CY	\$ 35.00	\$ 2,450.00
2	HMA MILLING, 3" OR LESS	1,349	SY	\$ 10.00	\$ 13,490.00
3	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK, IF & WHERE DIRECTED	135	SY	\$ 5.00	\$ 674.50
4	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK, IF & WHERE DIRECTED	223	TON	\$ 95.00	\$ 21,185.00
5	HOT MIX ASPHALT 19M64 BASE COURSE; 4" THICK, IF & WHERE DIRECTED	30	TON	\$ 90.00	\$ 2,700.00
6	TACK COAT	220	GAL	\$ 1.00	\$ 220.00
7	HOT MIX ASPHALT 9.5M64 DRIVEWAY REPAIR STRIP, 4" THICK	150	SY	\$ 5.00	\$ 750.00
8	NEW MANHOLE, IF & WHERE DIRECTED	1	UNIT	\$ 5,000.00	\$ 5,000.00
9	REPLACE EXISTING MANHOLE CASTING WITH NEW CASTING, IF & WHERE DIRECTED	15	UNIT	\$ 650.00	\$ 9,750.00
10	RESET WATER VALVE BOX	8	UNIT	\$ 10.00	\$ 80.00
11	RESET GAS VALVE BOX	8	UNIT	\$ 10.00	\$ 80.00
12	RESET AND REPLACE INLET CASTING	4	UNIT	\$ 1,000.00	\$ 4,000.00
13	NEW INLET, TYPE B, IF & WHERE DIRECTED	0	UNIT	\$ 5,000.00	\$ -
14	RCP CLASS V, 15", IF & WHERE DIRECTED	0	LF	\$ 35.00	\$ -
15	CONCRETE DRIVEWAY, 6" THICK REINFORCED	70	SY	\$ 70.00	\$ 4,900.00
16	BREAKAWAY SIGN POST REPLACEMENT, IF & WHERE DIRECTED	8	UNIT	\$ 50.00	\$ 400.00
17	REGULATORY AND WARNING SIGNS	8	UNIT	\$ 50.00	\$ 400.00
18	CONCRETE SIDEWALK, 4" THICK	0	SY	\$ 65.00	\$ -
19	9"X18" CONCRETE VERTICAL CURB	0	LF	\$ 30.00	\$ -
20	DETECTABLE WARNING SURFACE	3	UNIT	\$ 280.00	\$ 840.00
21	CONCRETE HANDICAP RAMP, IF & WHERE DIRECTED	75	SY	\$ 75.00	\$ 5,625.00
22	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 4" YELLOW	20	LF	\$ 2.00	\$ 40.00
23	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 6" WHITE	20	LF	\$ 4.00	\$ 80.00
24	TRAFFIC STRIPES, LONG-LIFE THERMOPLASTIC, 24" WHITE	20	LF	\$ 6.00	\$ 120.00
25	TREE & STUMP REMOVAL. 12"-24", IF AND WHERE DIRECTED	1	UNIT	\$ 1,500.00	\$ 1,500.00
26	TREE & STUMP REMOVAL. >24", IF AND WHERE DIRECTED	0	UNIT	\$ 3,000.00	\$ -
27	3 1/2" CALIPER TREE, IF & WHERE DIRECTED	0	UNIT	\$ 350.00	\$ -
28	TOPSOILING, 4" THICK, IF & WHERE DIRECTED	45	SY	\$ 5.00	\$ 225.00
29	FERTILIZING & SEEDING, TYPE A-3, IF & WHERE DIRECTED	45	SY	\$ 1.00	\$ 45.00
30	STRAW MULCHING, IF & WHERE DIRECTED	45	SY	\$ 1.00	\$ 45.00
31	BREAKAWAY BARRICADE, IF & WHERE DIRECTED	5	UNIT	\$ 1.00	\$ 5.00
32	DRUM, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
33	TRAFFIC CONE, IF & WHERE DIRECTED	10	UNIT	\$ 1.00	\$ 10.00
34	CONSTRUCTION SIGNS, IF & WHERE DIRECTED	8	UNIT	\$ 1.00	\$ 8.00

Construction Cost	\$ 74,632.50
Design Fee	\$ 6,716.93
Construction Fee	\$ 6,716.93
Total project cost	\$ 88,066.35

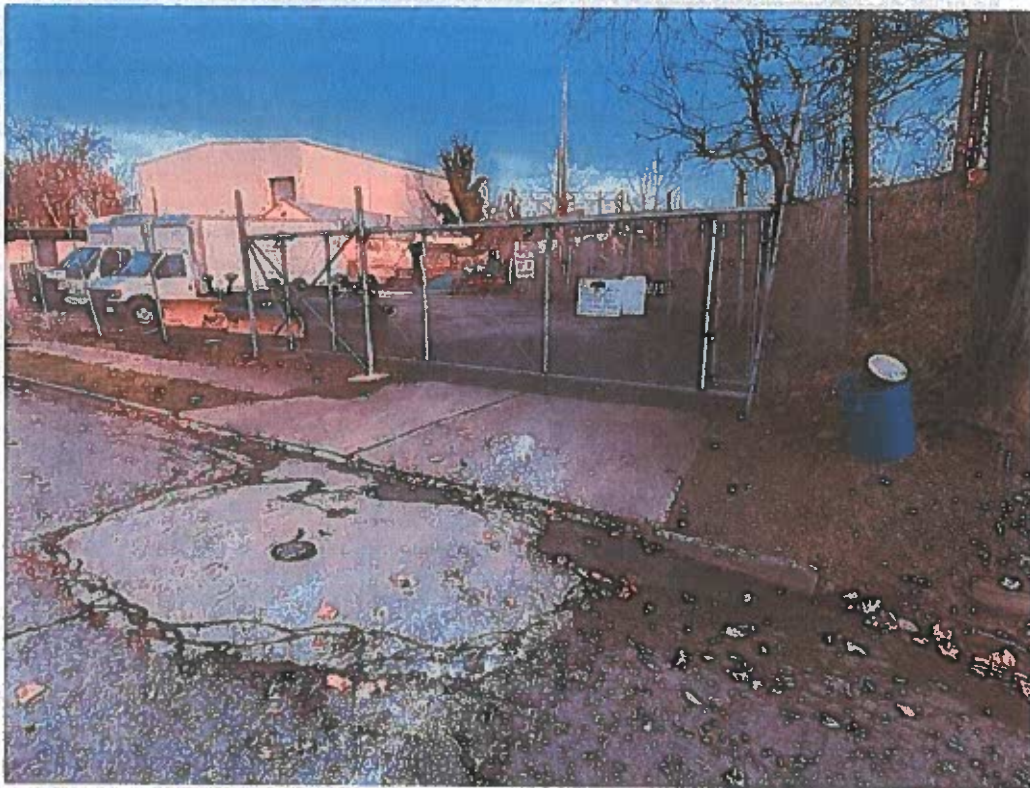

Stephen C. Hoyt, P.E.
NJ Prof. Engineer Lic. # 24GE054015



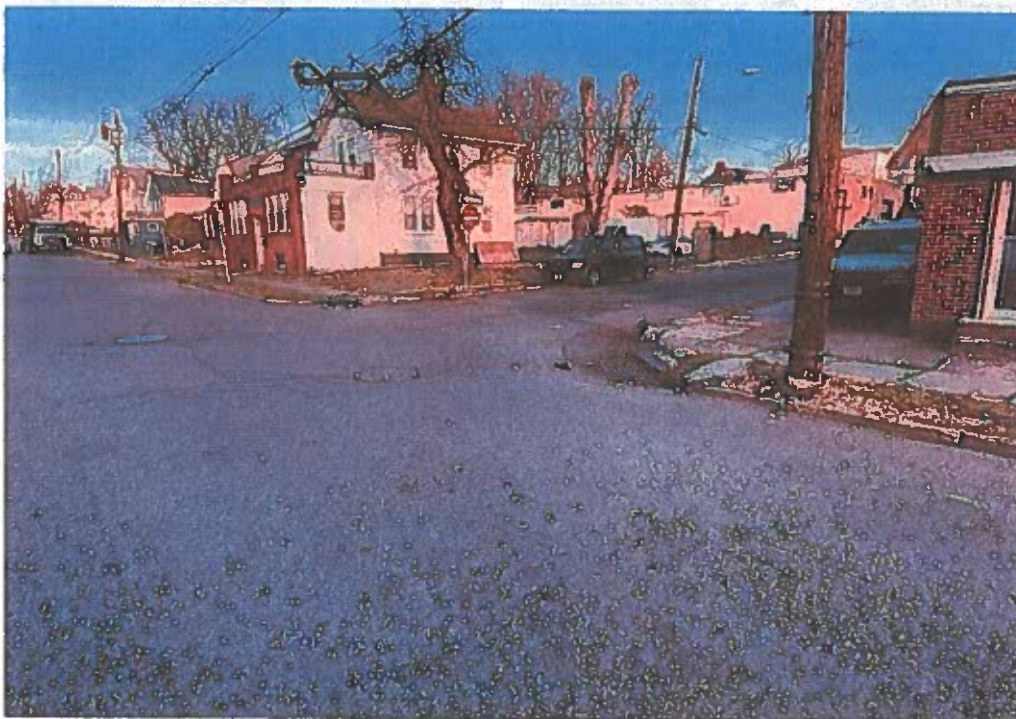
Bell Street (between Main St – Madison St) Deteriorated Pavement



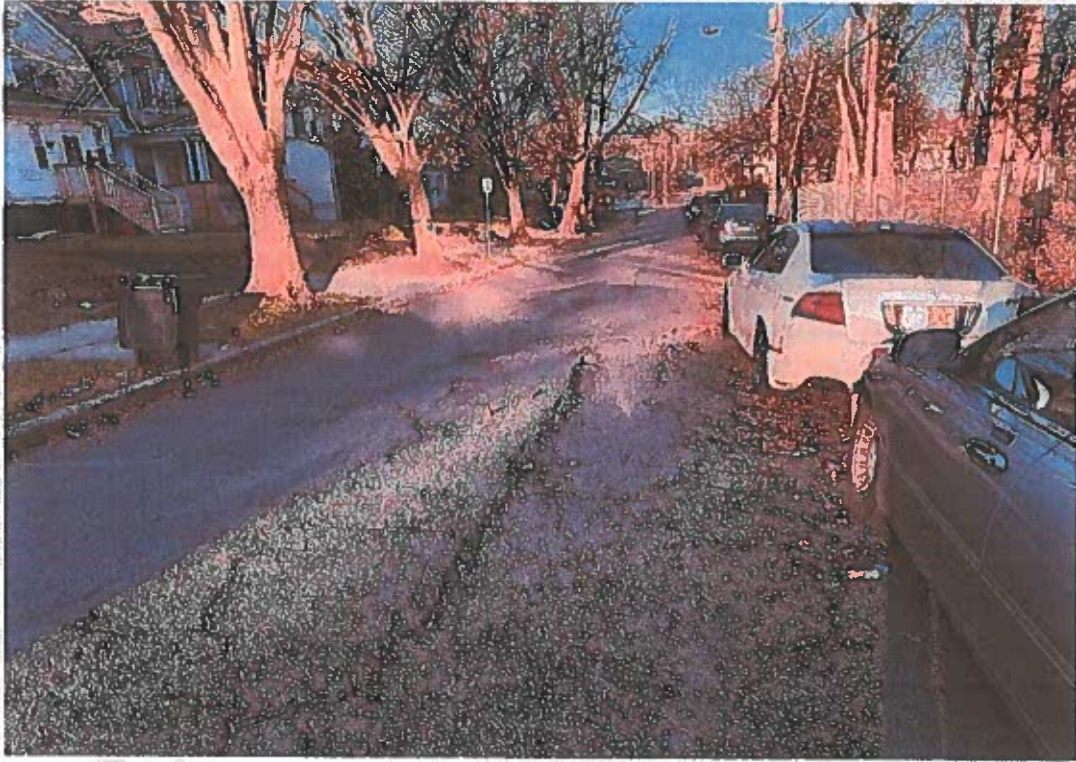
Bell Street (between Main St – Madison St) Deteriorated Pavement, Curb & Sidewalk



Bell Street (between Main St – Madison St) Deteriorated Pavement & Curbs



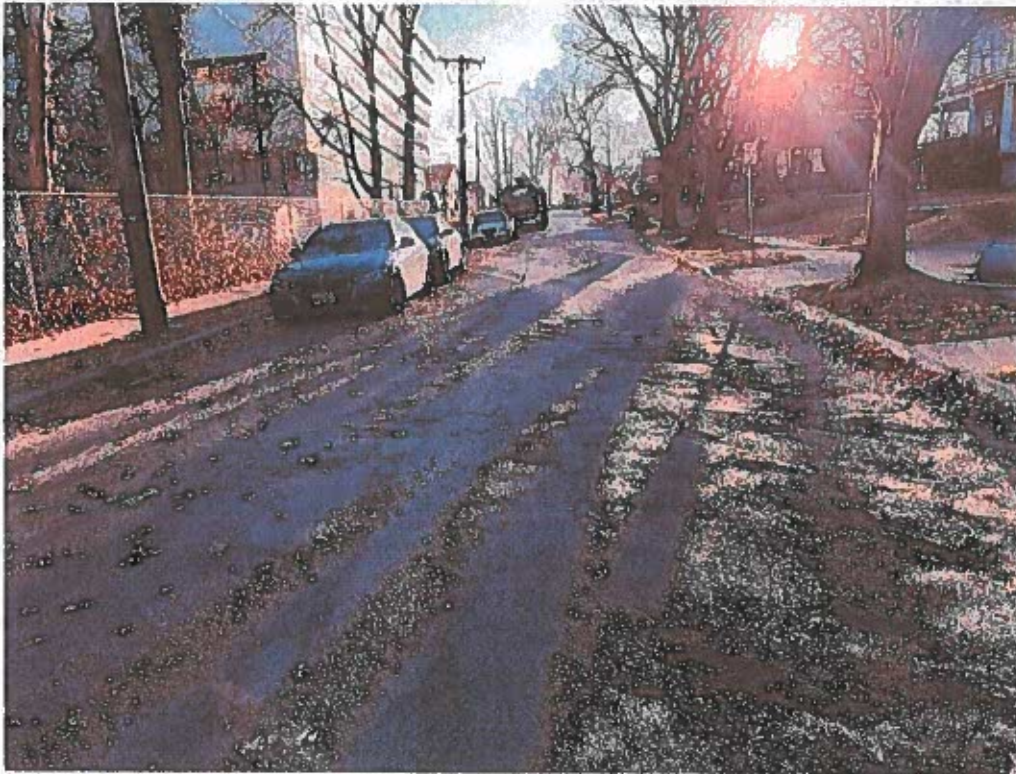
Bell Street (between Main St – Madison St) Non-Compliant ADA Ramps



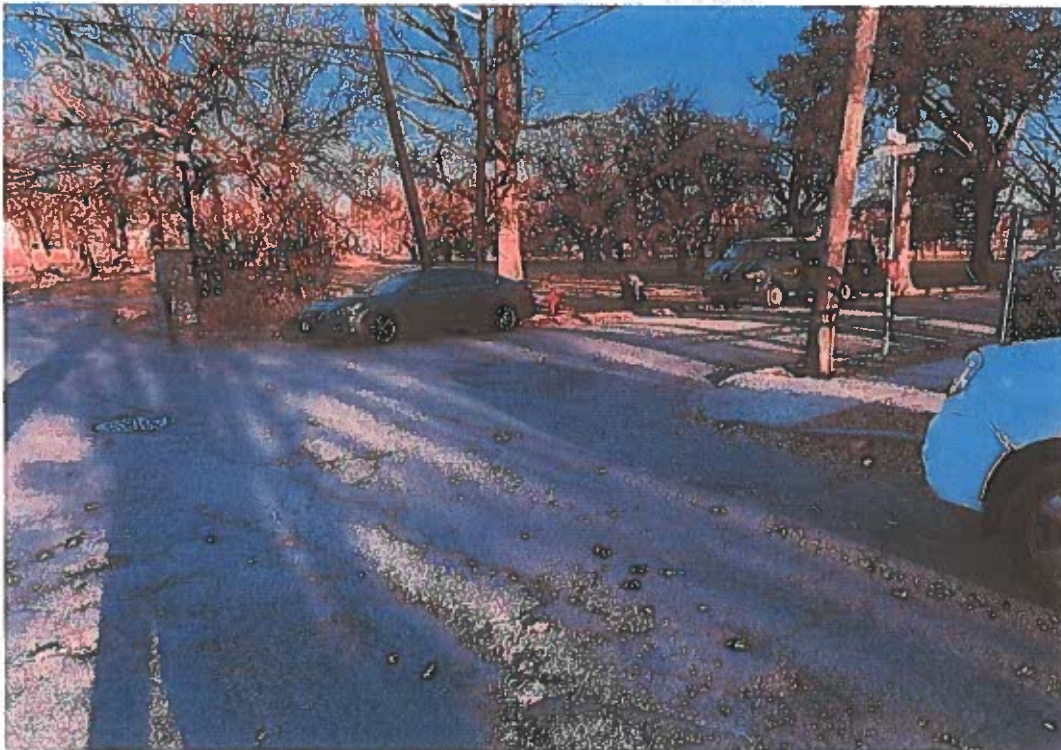
E. Highland Avenue (between S. Center St – E.O. Border) Deteriorated Pavement



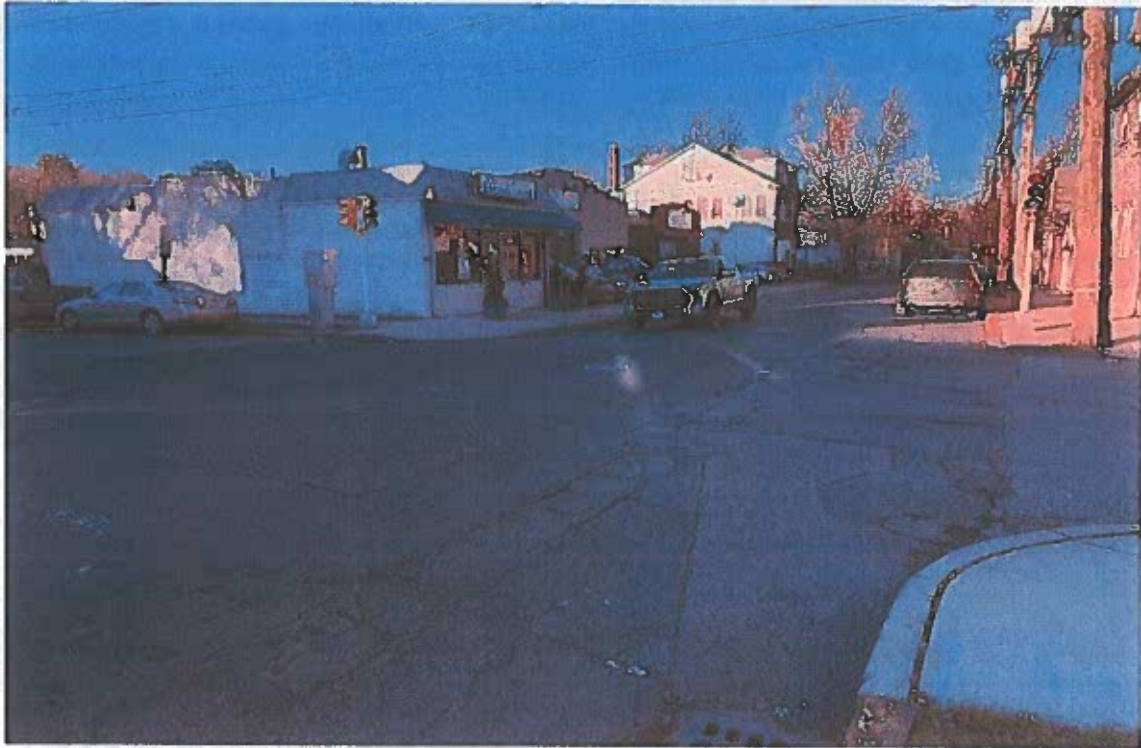
E. Highland Avenue (between S. Center St – E.O. Border) Deteriorated Pavement & Pot Hole



E. Highland Avenue (between S. Center St – E.O. Border) Deteriorated Pavement & Potholes



E. Highland Avenue (between S. Center St – E.O. Border) Non-Compliant ADA Ramp



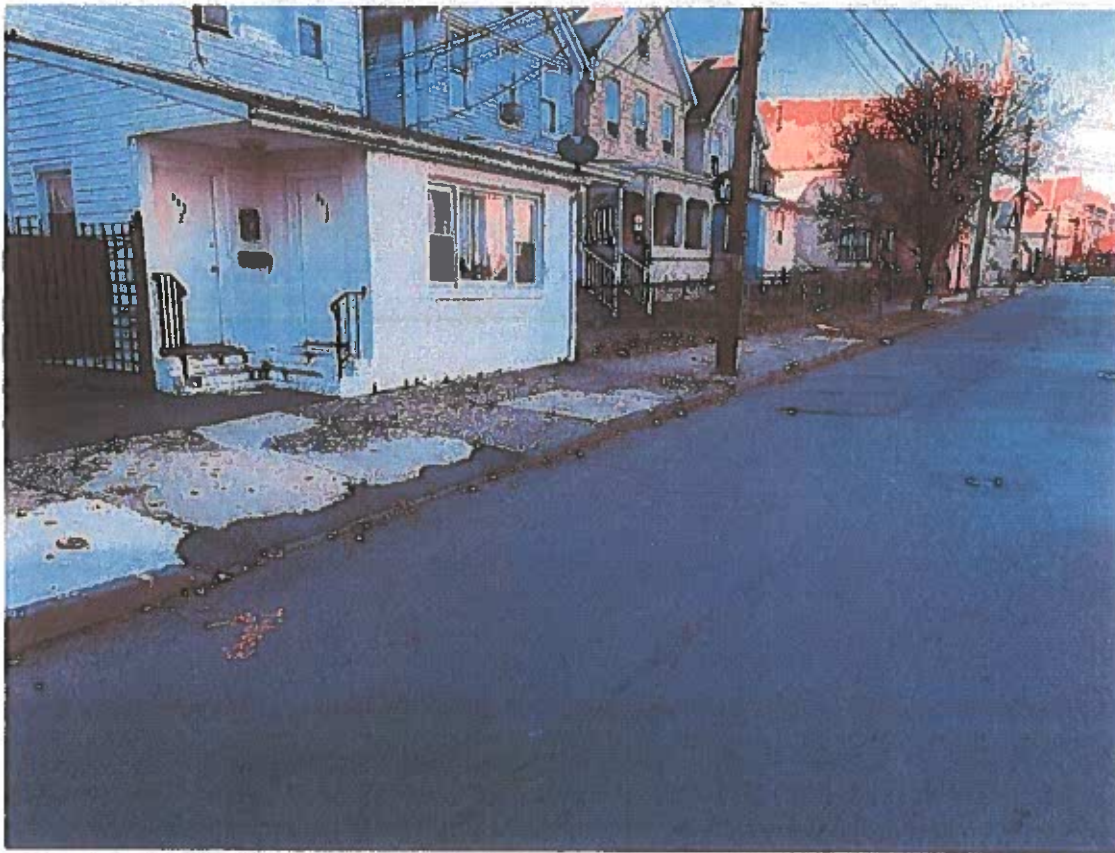
Valley Street (between Union St – Tremont Ave) Deteriorated Pavement & Non-Compliant ADA Ramps



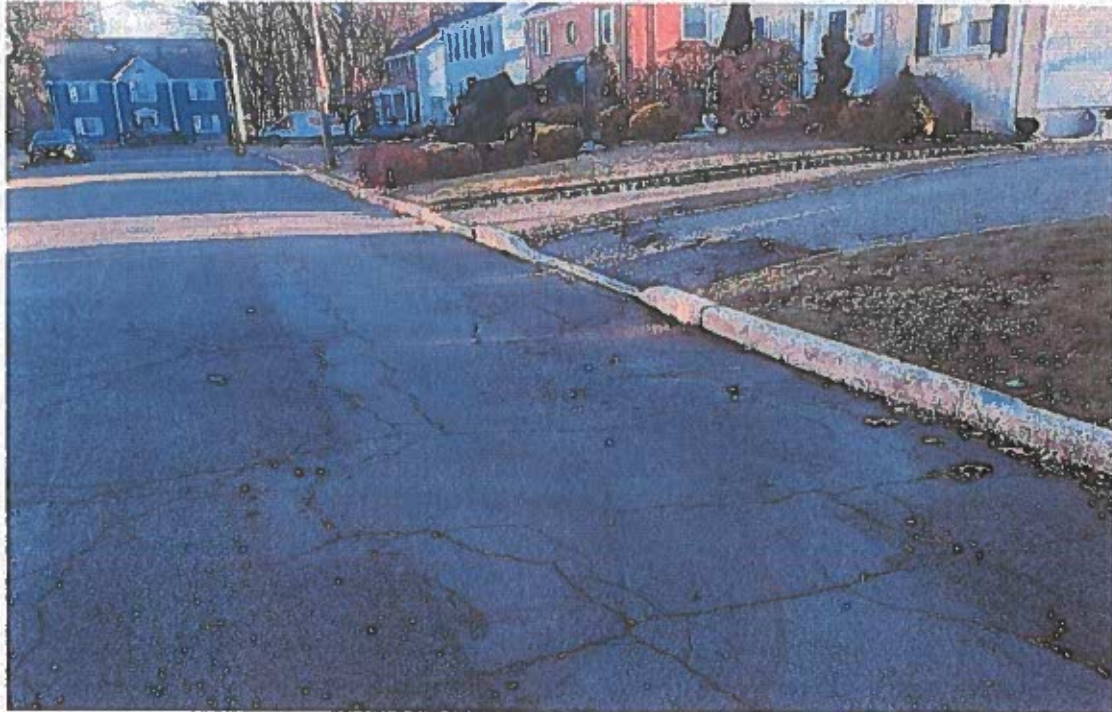
Valley Street (between Union St – Tremont Ave) Cracked Sidewalk & Non-Compliant ADA Ramp



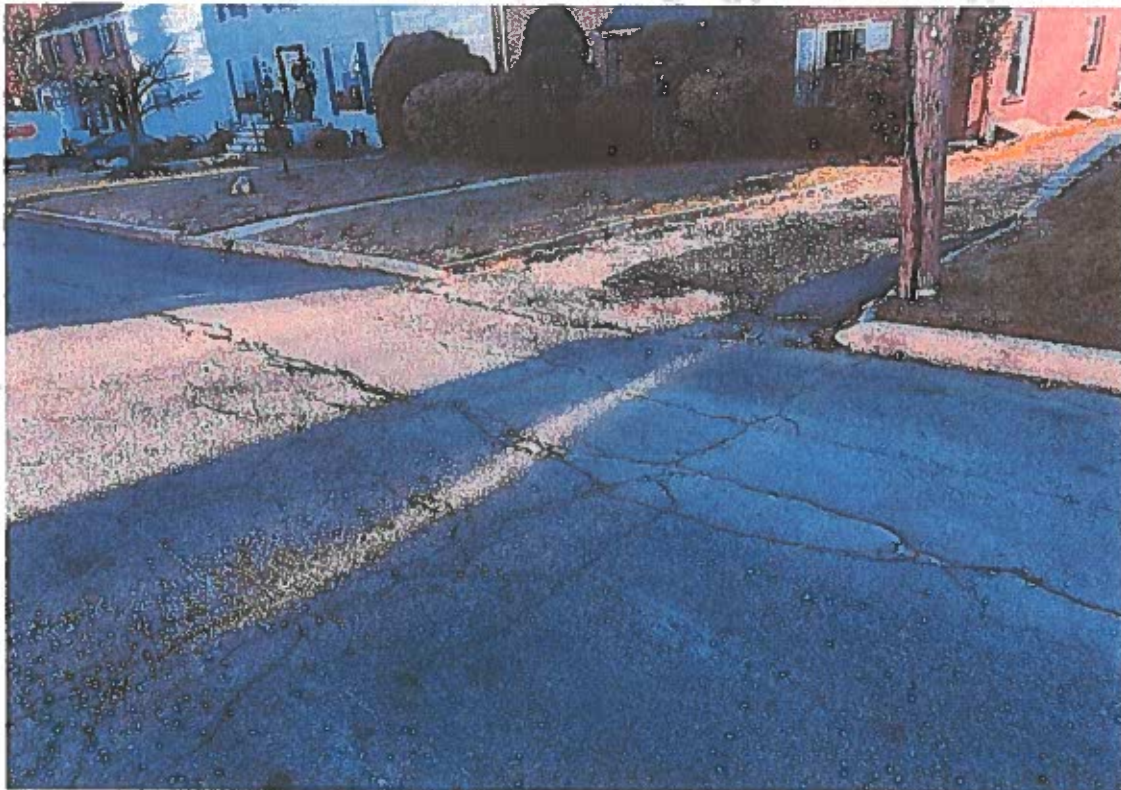
Valley Street (between Union St – Tremont Ave) Deteriorated Pavement, & Sidewalk



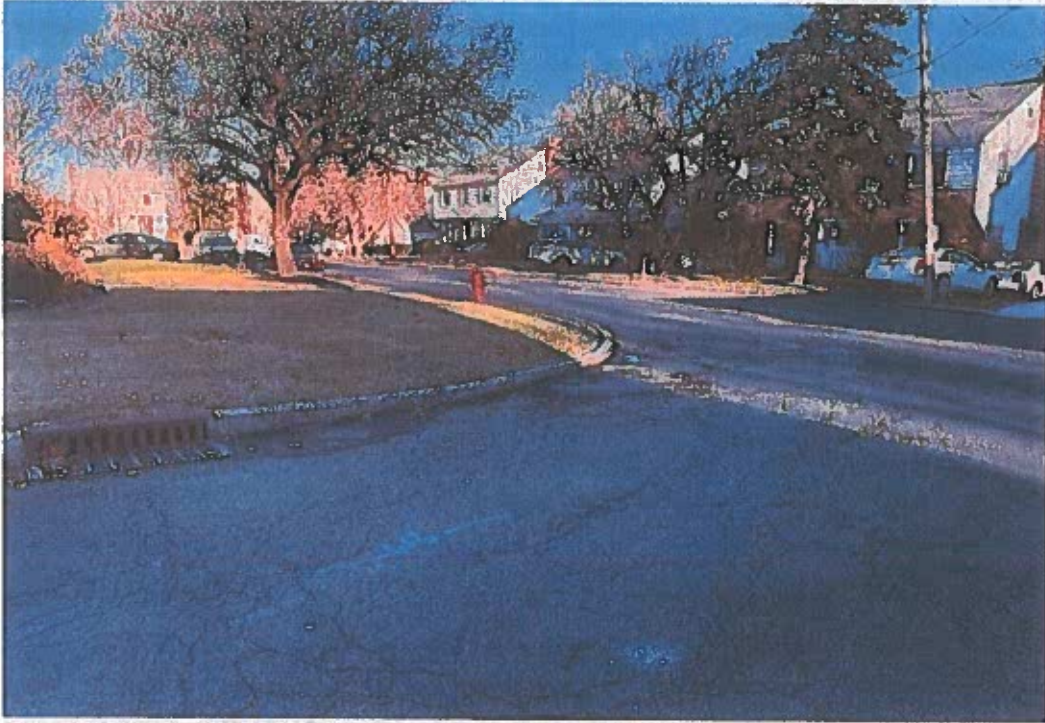
Valley Street (between Union St – Tremont Ave) Deteriorated Sidewalk & Curbs



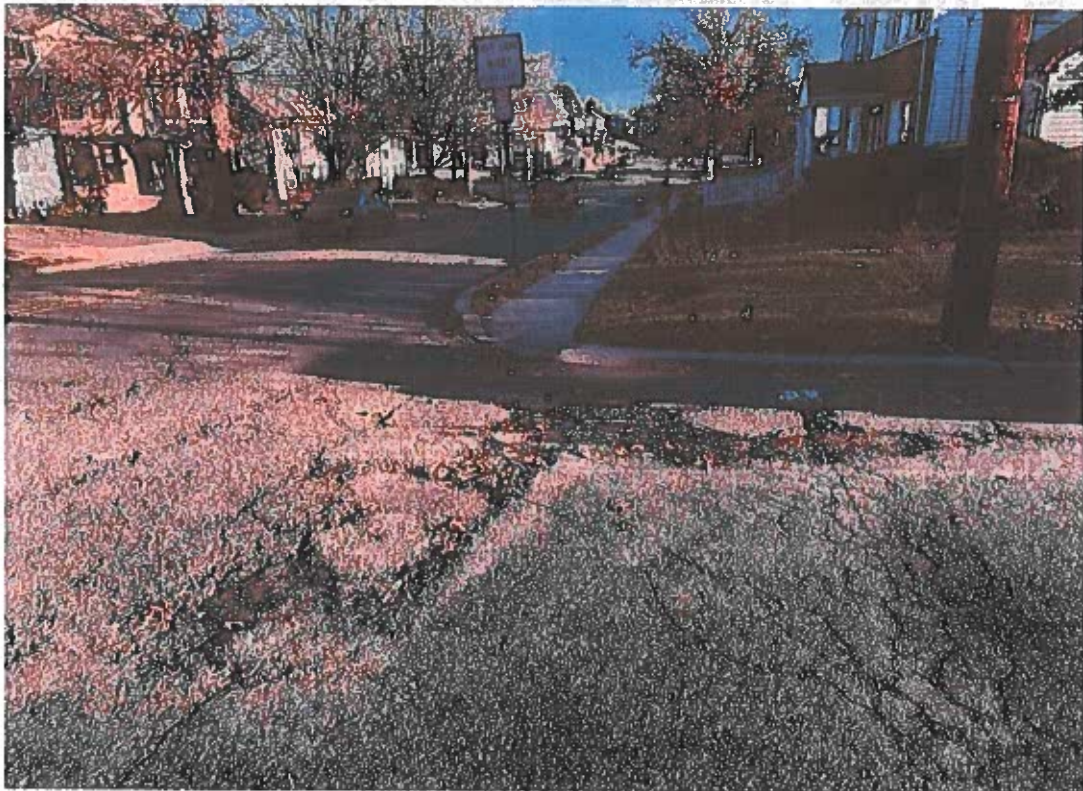
Tremont Court (Tremont Ave – Dead End) Deteriorated & Cracked Pavement



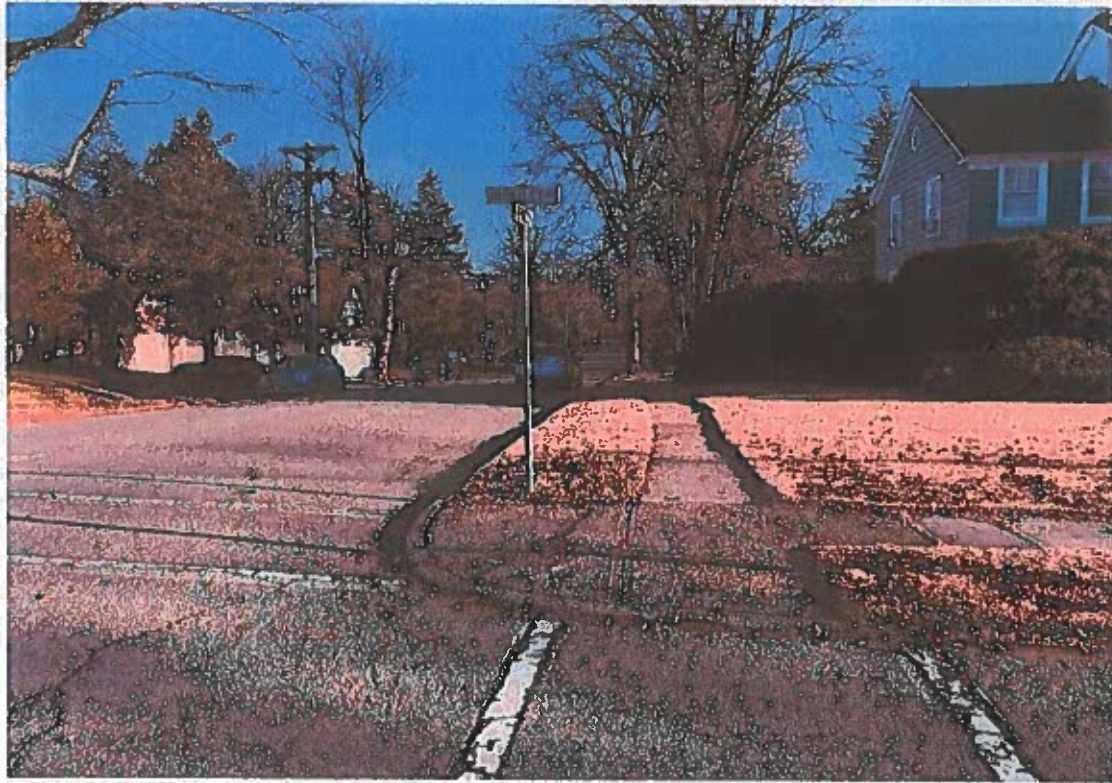
Tremont Court (Tremont Ave – Dead End) Cracked Pavement & Deteriorated Curb



Tremont Court (Tremont Ave – Dead End) Deteriorated Pavement



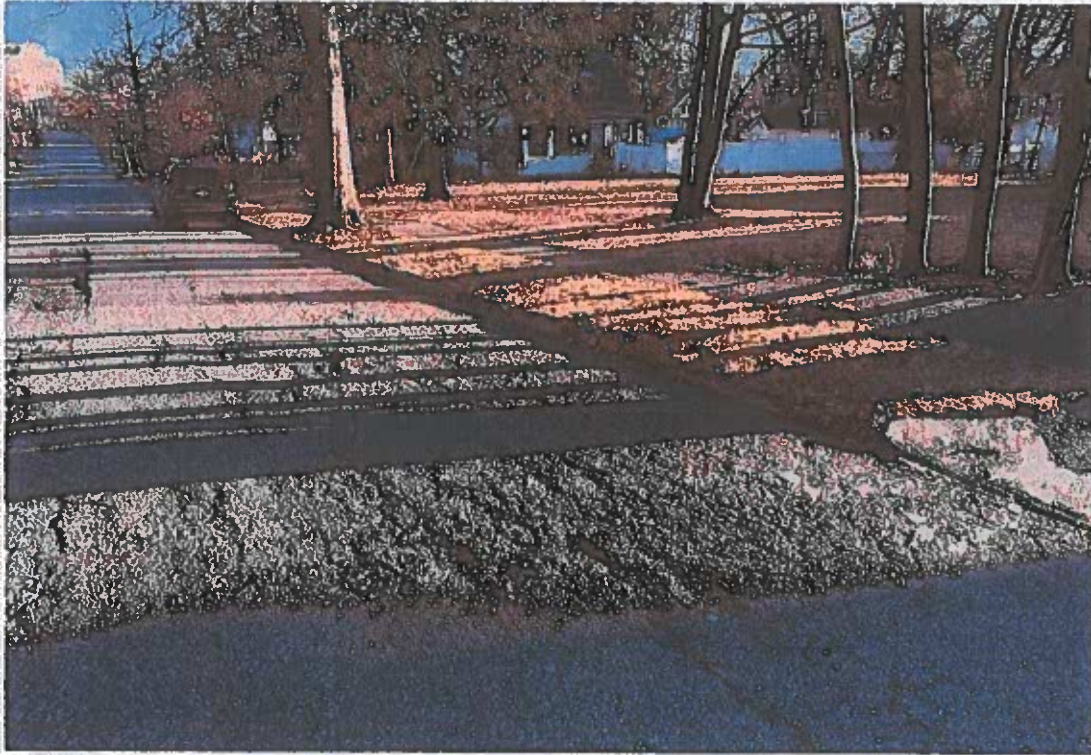
Tremont Court (Tremont Ave – Dead End) Deteriorated Pavement & Non-Compliant ADA Ramp



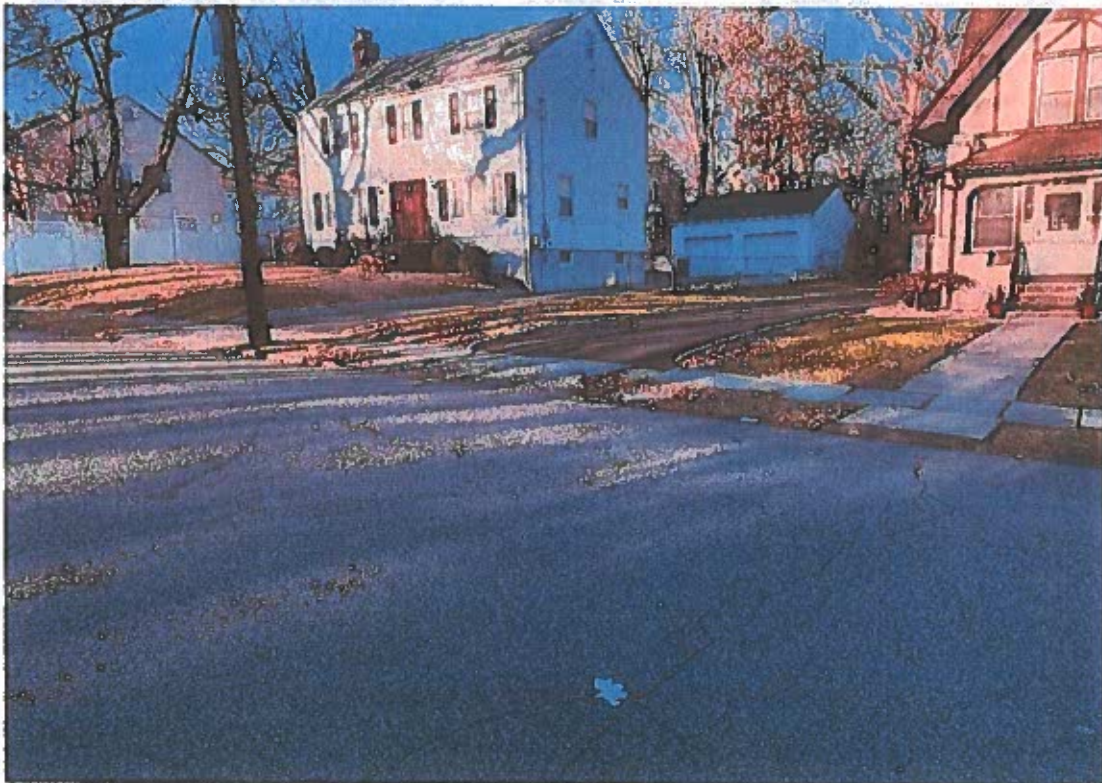
Heywood Avenue (between Berkeley Ave – Mosswood Ave) Non-Compliant ADA Ramp



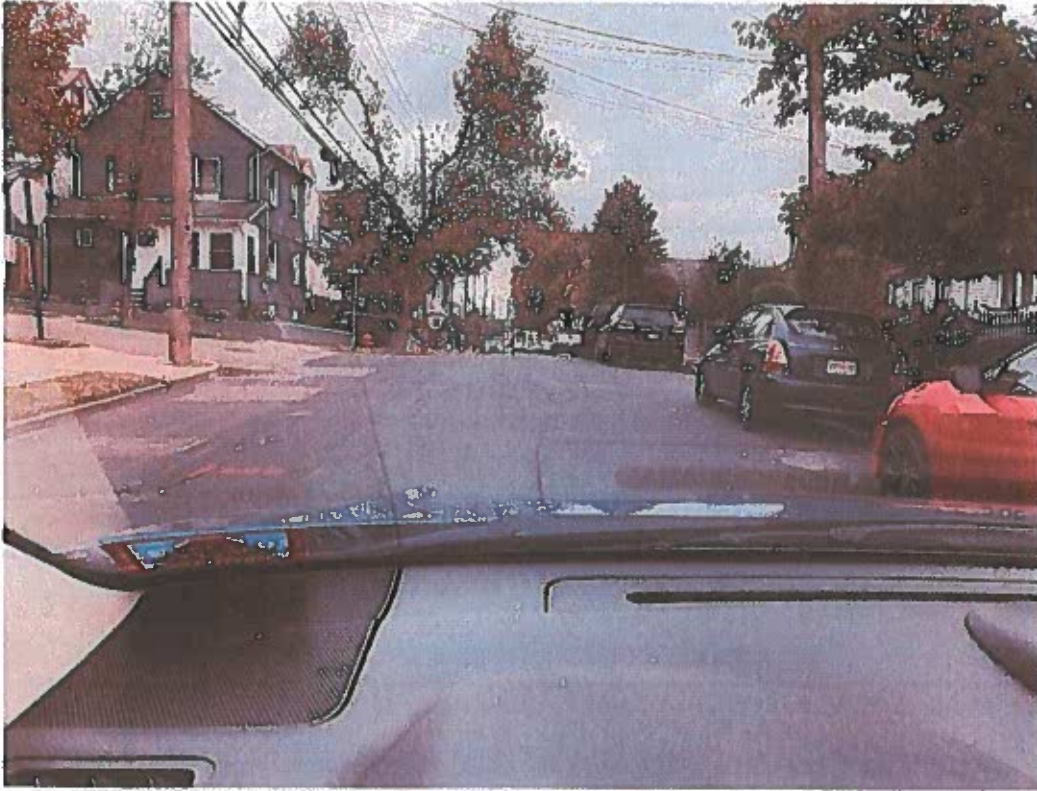
Heywood Avenue (between Berkeley Ave – Mosswood Ave) Deteriorated Sidewalk



Heywood Avenue (between Berkeley Ave – Mosswood Ave) Deteriorated Pavement & Curb



Heywood Avenue (between Berkeley Ave – Mosswood Ave) Deteriorated Sidewalk & Curb



North Jefferson Street (between White St – Main St) Deteriorated Pavement & Non-Compliant ADA Ramp



North Jefferson Street (between White St – Main St) Deteriorated Pavement



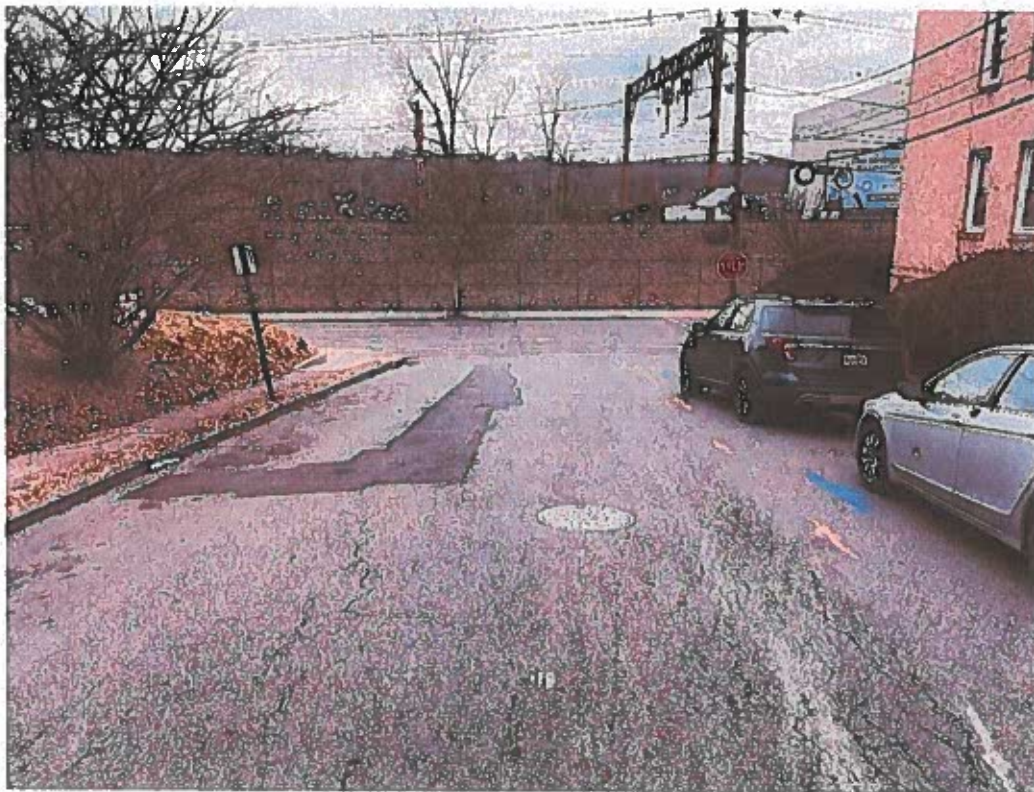
Mountainview Avenue (between Lincoln Ave – Scotland Rd) Deteriorated Sidewalk & Curb



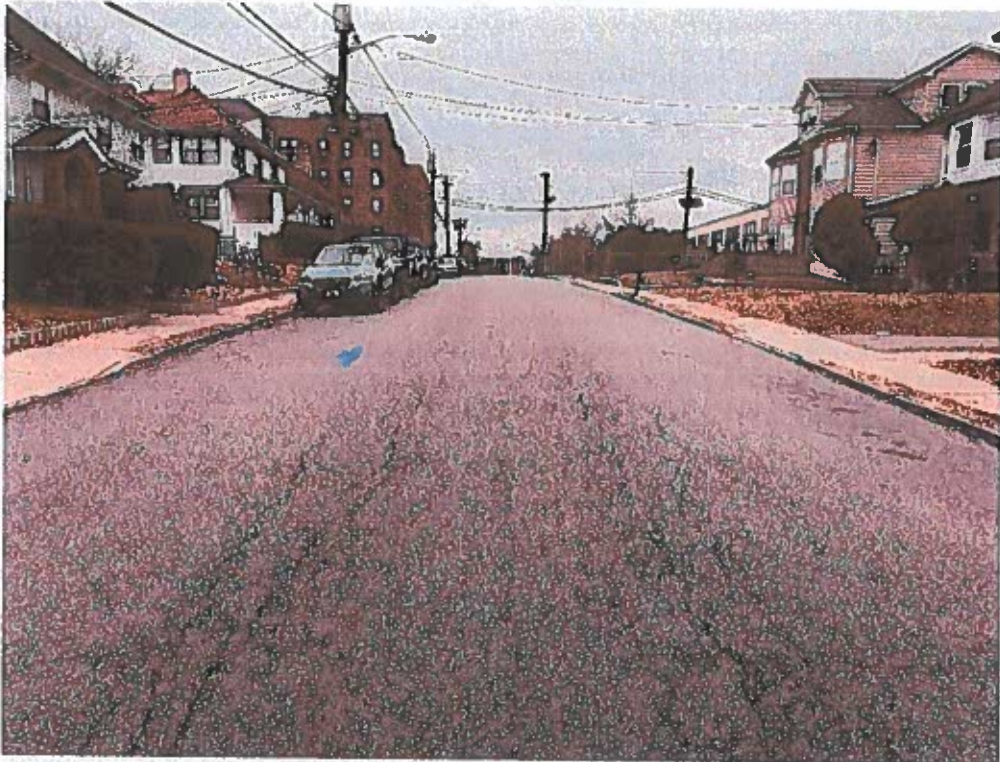
Mountainview Avenue (between Lincoln Ave – Scotland Rd) Cracked Sidewalk Apron & Curb



Mountainview Avenue (between Lincoln Ave – Scotland Rd) Deteriorated Sidewalk



Mountainview Avenue (between Lincoln Ave – Scotland Rd) Pot Holes & Cracked Pavement



Mountainview Avenue (between Lincoln Ave – Scotland Rd) Cracked Pavement



Mountainview Avenue (between Lincoln Ave – Scotland Rd) Cracked Pavement

**City of Orange Township
NJDOT 2023 (LTPF)**

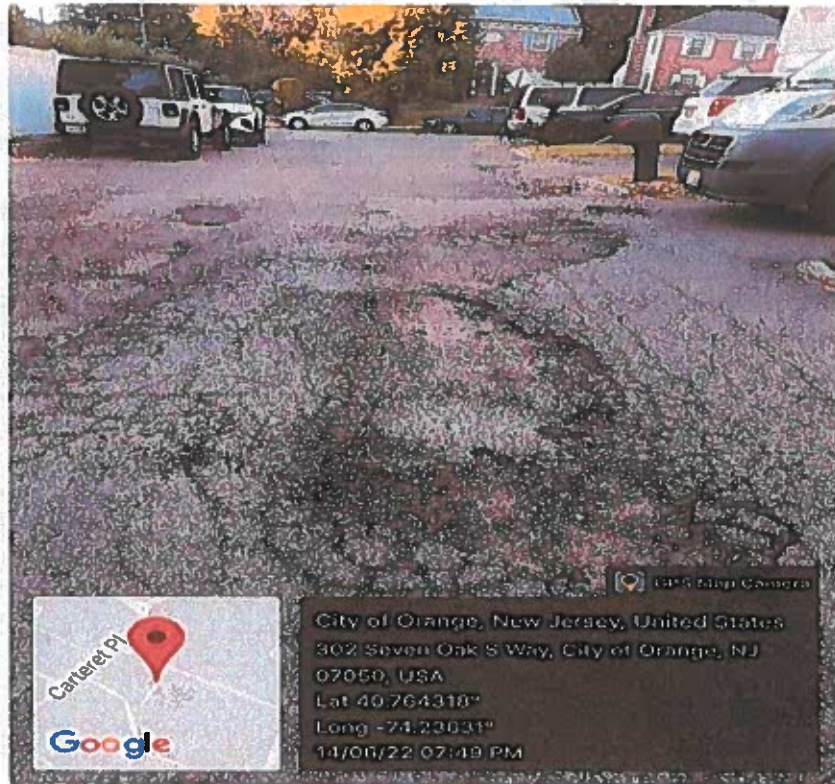


Seven Oaks Way (Between Reynolds St – Dead End) Cracked Pavement

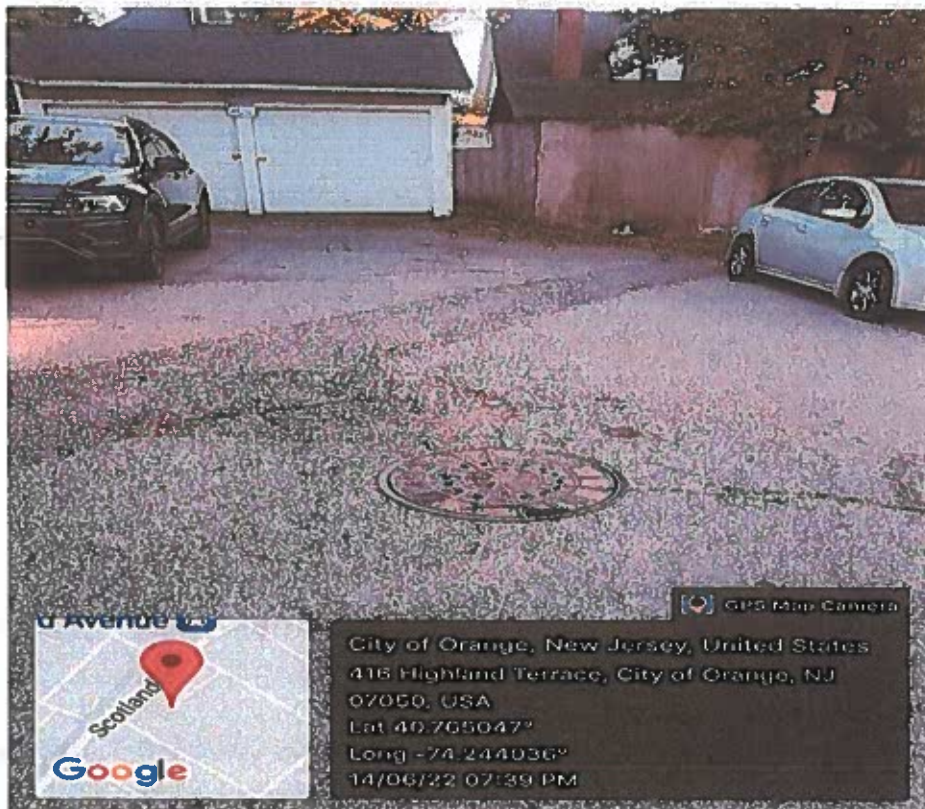


Seven Oaks Way (Between Reynolds St – Dead End) Deteriorated Pavement

**City of Orange Township
NJDOT 2023 (LTPF)**



Seven Oaks Way (Between Reynolds St – Dead End) Deteriorated Pavement & Pot Holes



Highland Terrace (Between Highland Ave – Dead End) Deteriorated Pavement

**City of Orange Township
NJDOT 2023 (LTPF)**



Highland Terrace (Between Highland Ave – Dead End) Deteriorated Sidewalk

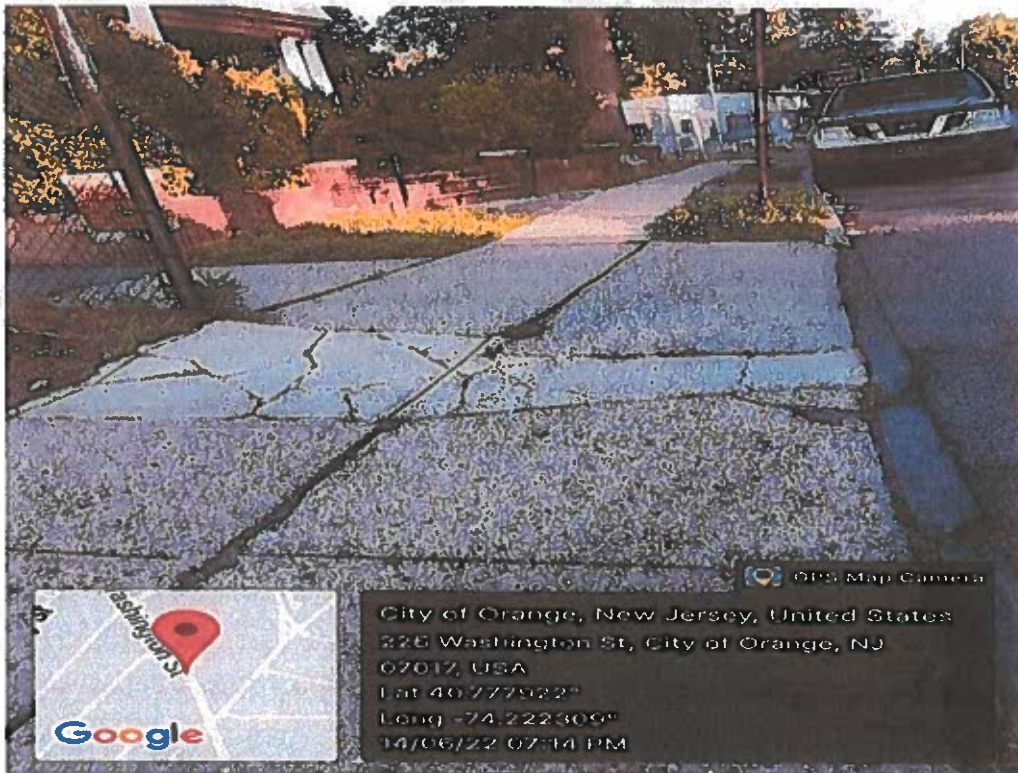


Hayward Street (Between Thomas Blvd – E.O. Border) Deteriorated Pavement

**City of Orange Township
NJDOT 2023 (LTPF)**



Hayward Street (Between Thomas Blvd – E.O. Border) Cracked Sidewalk



Washington Street (Between N. Essex Ave – E.O. Border) Deteriorated/Cracked Sidewalk

**City of Orange Township
NJDOT 2023 (LTPF)**

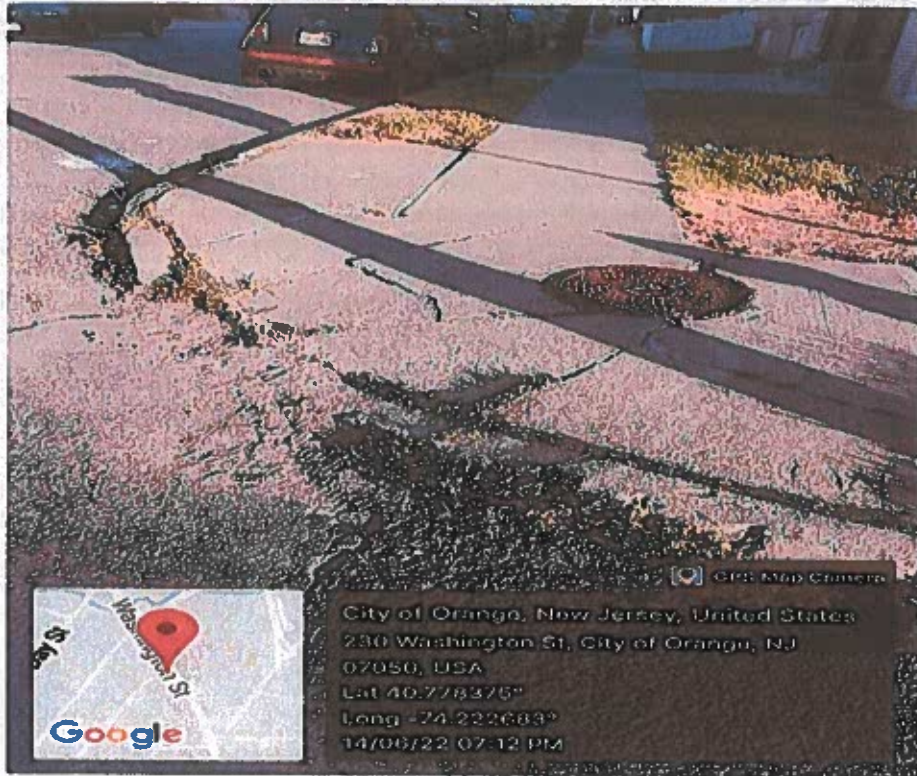


Washington Street (Between N. Essex Ave – E.O. Border) Deteriorated Pavement



Washington Street (Between N. Essex Ave – E.O. Border) Deteriorated Pavement & Pot Holes

**City of Orange Township
NJDOT 2023 (LTPF)**



**Washington Street (Between N. Essex Ave – E.O. Border)
Noncompliant and cracked ADA curb ramp**



Ivy Court (Between S. Center St – Dead End) Deteriorated Pavement & Pot Holes

**City of Orange Township
NJDOT 2023 (LTPF)**



Ivy Court (Between S. Center St – Dead End) Deteriorated Pavement

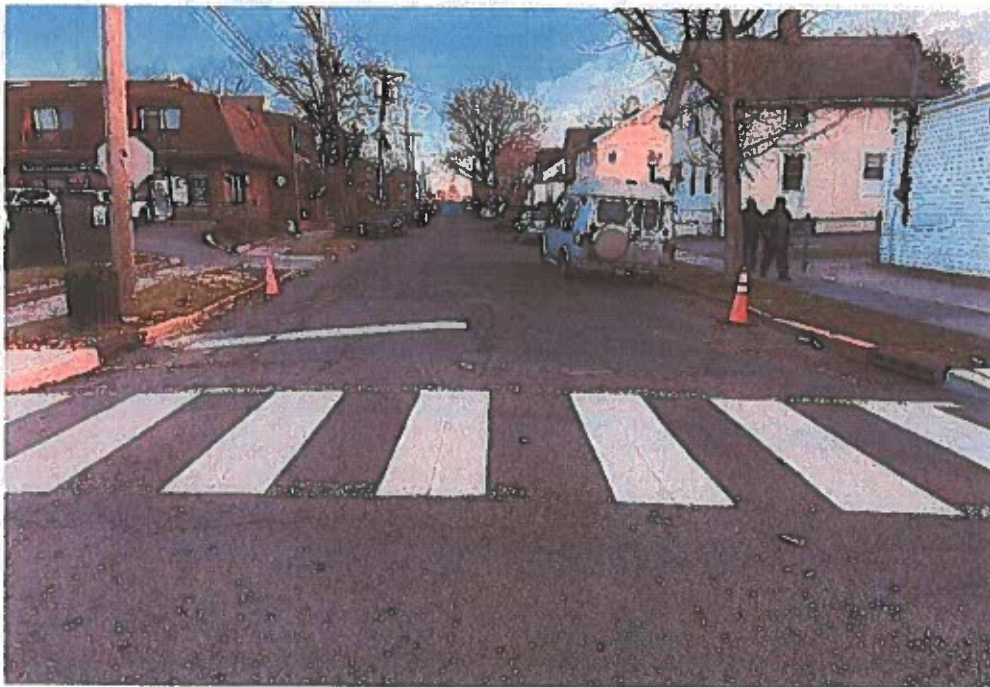


Ivy Court (Between S. Center St – Dead End) Deteriorated sidewalk & Curb

**City of Orange Township
NJDOT 2023 (LTPF)**



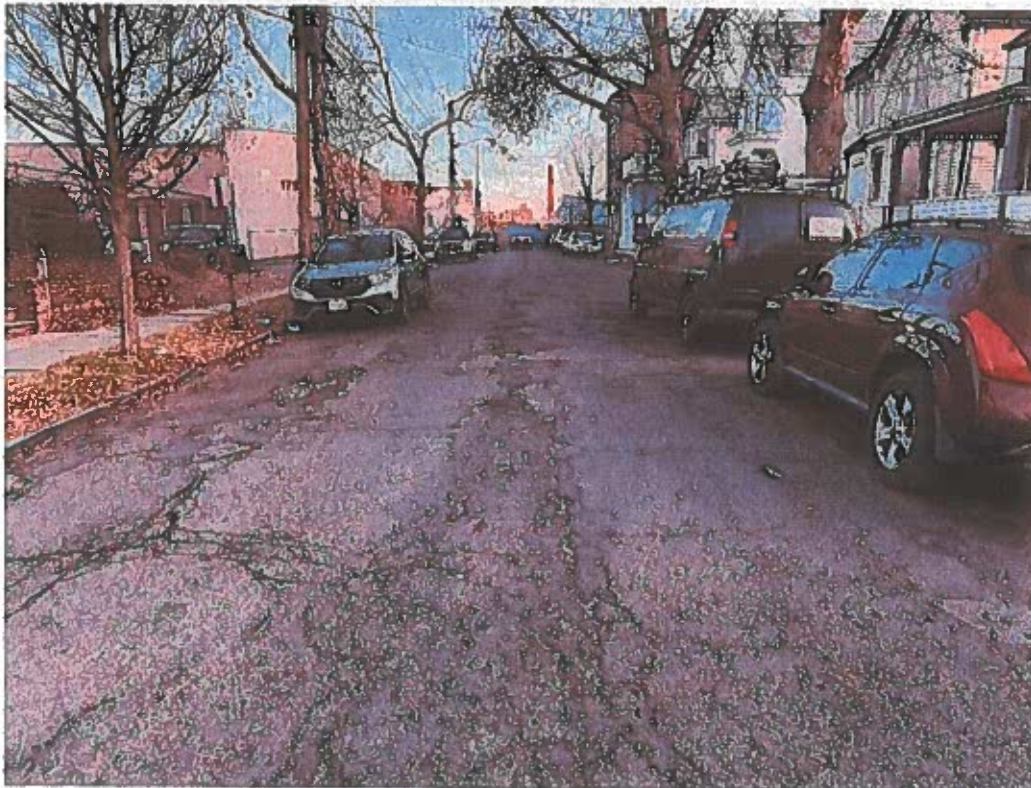
Ivy Court (Between S. Center St – Dead End) Deteriorated Sidewalk & Curb



Frankfort Street (between Scotland Rd – Lincoln Ave) Deteriorated Pavement



Frankfort Street (between Scotland Rd – Lincoln Ave) Deteriorated Curb & Sidewalk



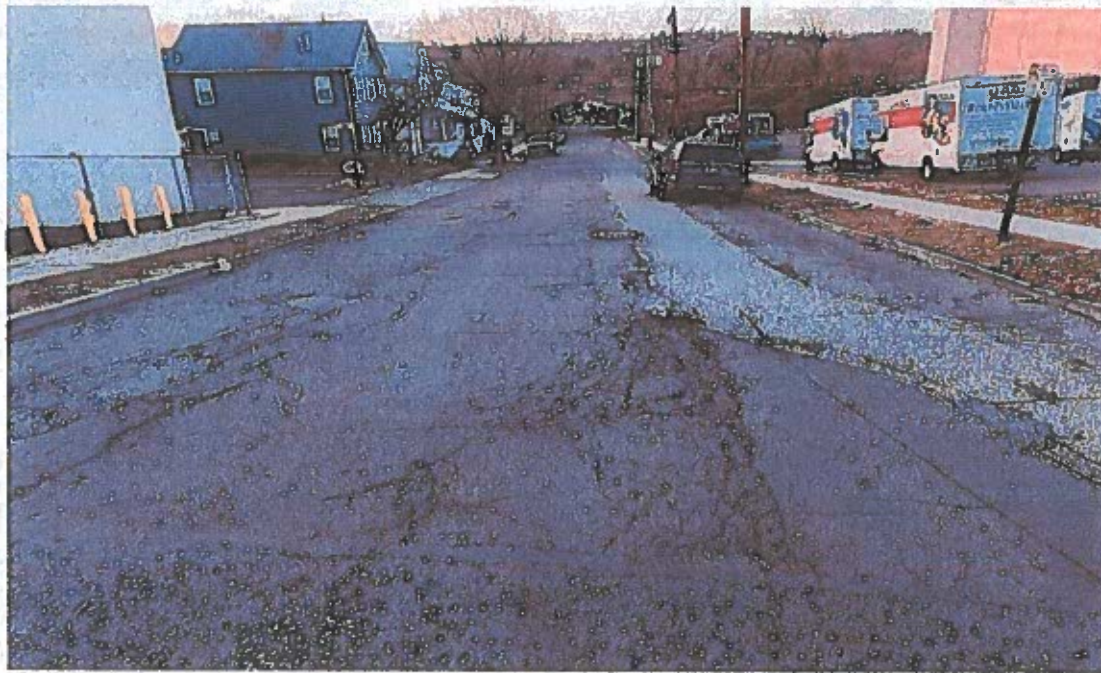
Frankfort Street (between Scotland Rd – Lincoln Ave) Deteriorated Pavement



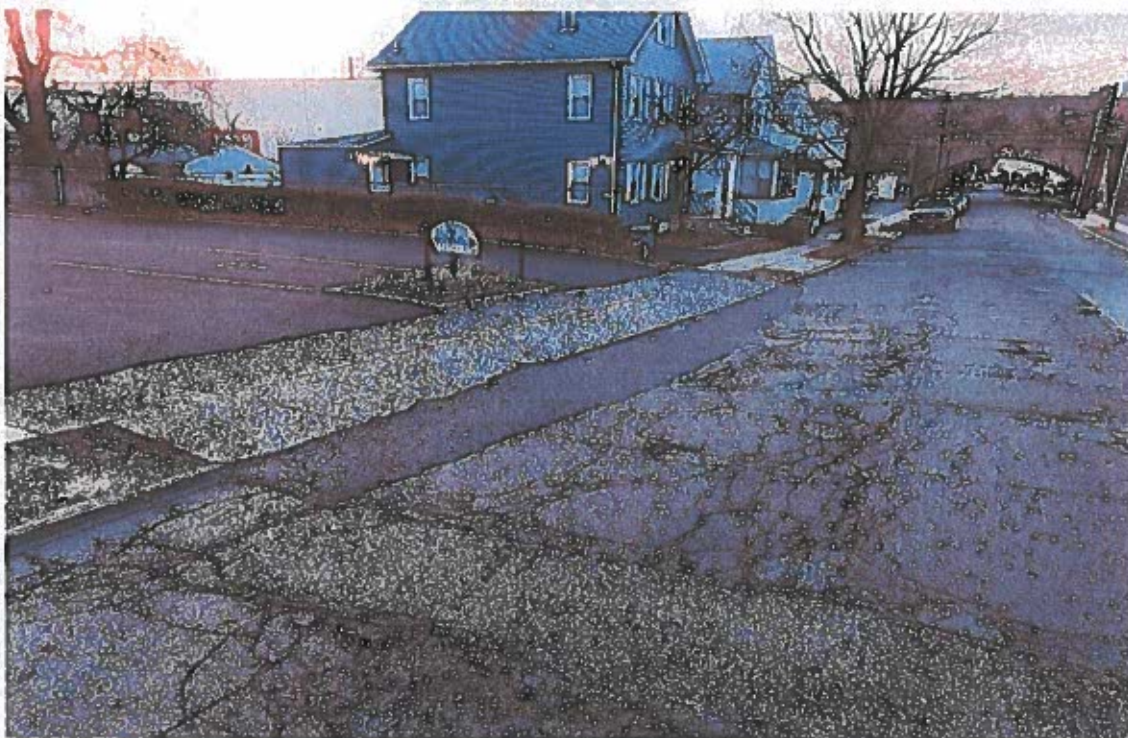
Frankfort Street (between Scotland Rd – Lincoln Ave) Deteriorated Pavement



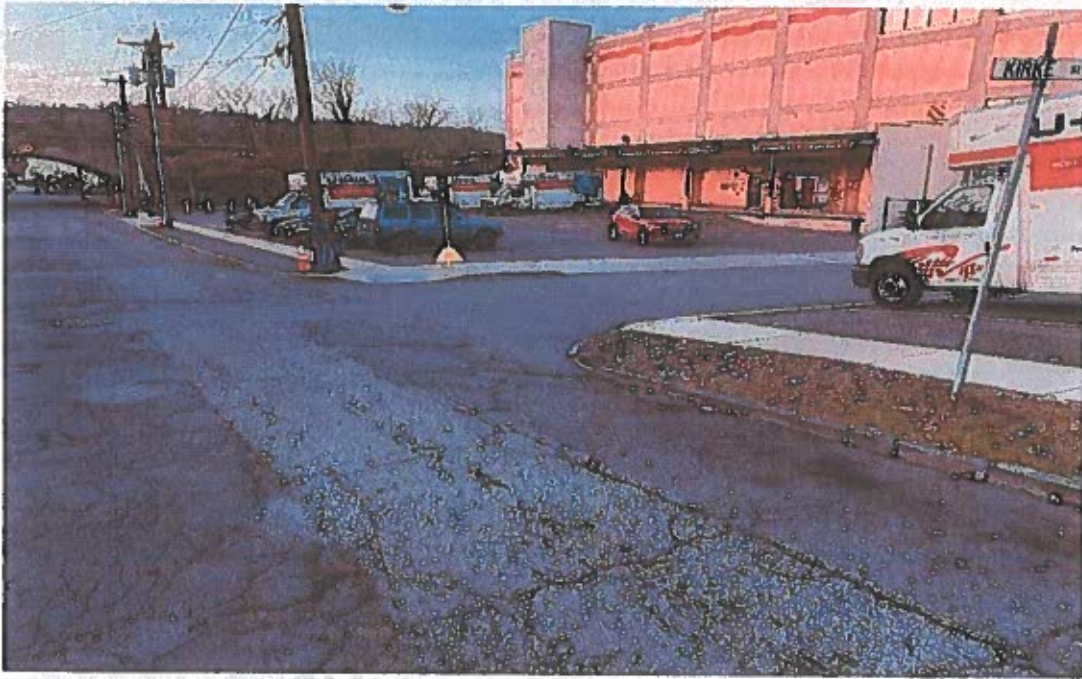
Frankfort Street (between Scotland Rd – Lincoln Ave) Non-Compliant ADA Ramp



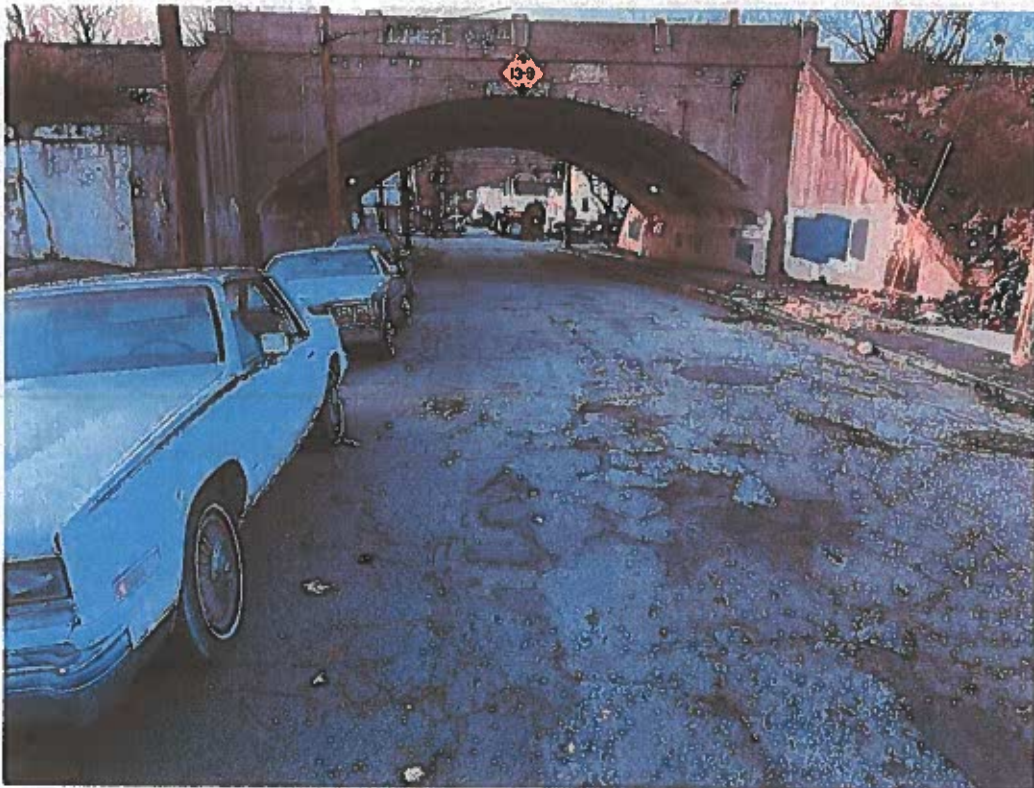
Joyce Street (between Scotland Rd – W.O. Border) – Deteriorated Pavement



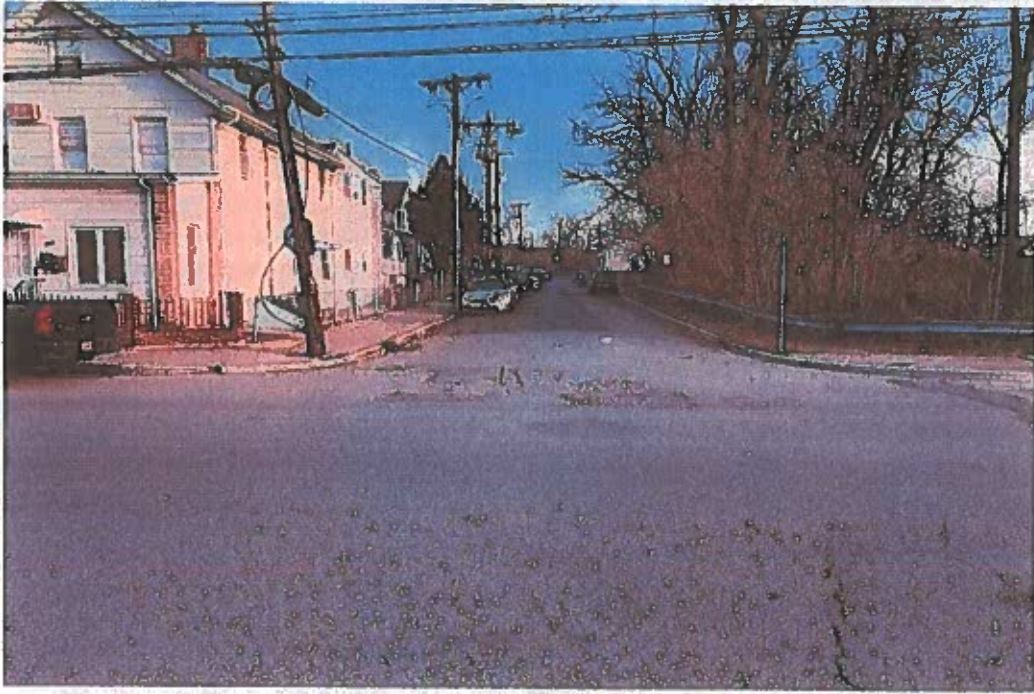
Joyce Street (between Scotland Rd – W.O. Border) Deteriorated Pavement, Sidewalk & Curb



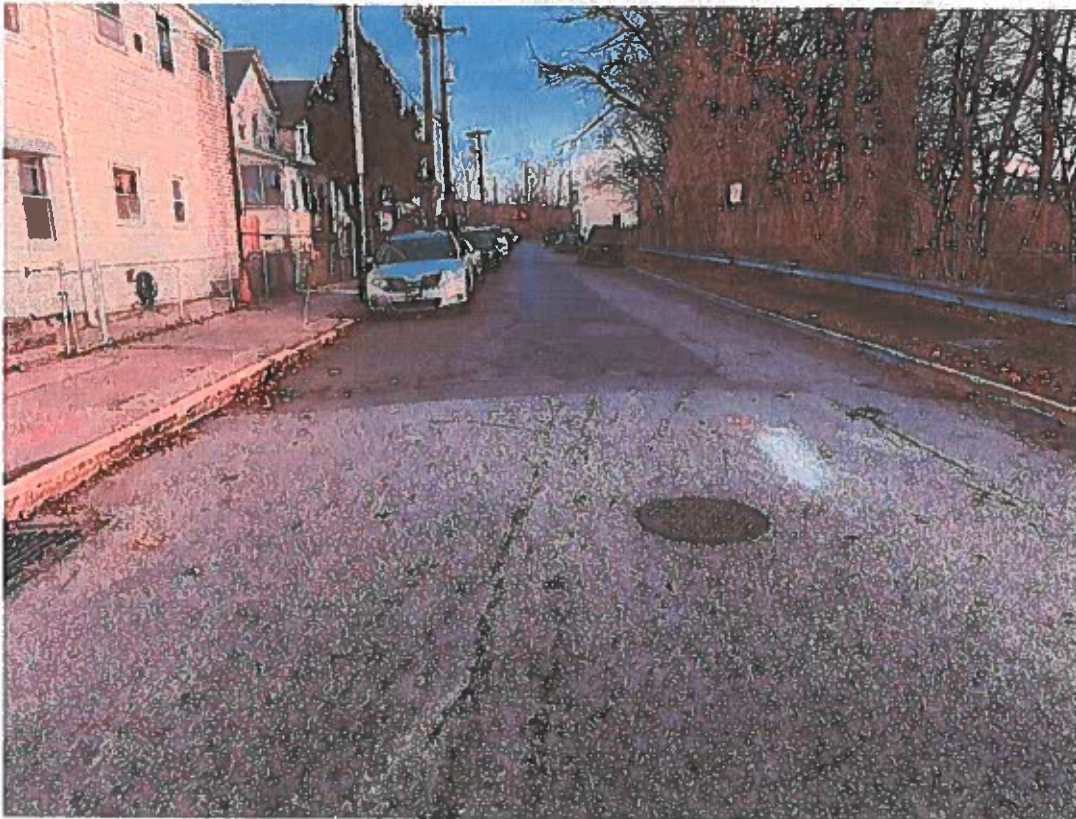
Joyce Street (between Scotland Rd – W.O. Border) – Non Compliant ADA Ramp



Joyce Street (between Scotland Rd – W.O. Border) – Deteriorated Pavement & Curbing



Madison Street (between Bell St – S. Jefferson St) Non Compliant ADA Ramps



Madison Street (between Bell St – S. Jefferson St) Deteriorated Pavement



Madison Street (between Bell St – S. Jefferson St) Deteriorated Pavement & Pot Holes



Madison Street (between Bell St – S. Jefferson St) Deteriorated Sidewalk & Curbing