



# INNER LOOP EAST TRANSFORMATION PROJECT

REMOVE • RESTORE • RECONNECT • REVITALIZE

## DRAFT DESIGN REPORT – Volume 1

PIN 4940.T7

JANUARY 2014



City of Rochester, Department of Environmental Services



New York State Department of Transportation



Federal Highway Administration



Stantec



# PROJECT APPROVAL SHEET

(Pursuant to SAFETEA-LU Matrix)

**A. IPP Approval:** The project is ready to be added to the Regional Capital Program and scoping can begin.  
The IPP was approved by:  
Charles Moynihan  
\_\_\_\_\_  
Regional Director, NYSDOT Region 4

9-7-2001  
\_\_\_\_\_

**B. Scoping Approval:** The project cost and schedule are consistent with the Regional Capital Program.  
  
The Scope was approved by:  
James R. McIntosh, P.E.,  
\_\_\_\_\_  
City Engineer

9-2013  
\_\_\_\_\_

**C. Recommendation for Design Approval:** The project cost and schedule are consistent with the Regional Capital Program.  
  
\_\_\_\_\_  
Daniel Hallowell  
Regional Program and Planning Manager – NYSDOT Region 4

**D. Recommendation for Design and Nonstandard Feature Approval:** All requirements requisite to these actions and approvals have been met, the required independent quality control reviews separate from the functional group reviews have been accomplished, and the work is consistent with established standards, policies, regulations and procedures, except as otherwise noted and explained.  
  
\_\_\_\_\_  
James R. McIntosh, P.E.,  
City Engineer

\_\_\_\_\_  
Robert Traver, P.E.,  
Regional Director – NYSDOT Region 4

**E. Nonstandard Feature Approval:** The nonstandard features have been adequately justified and it is not prudent to eliminate them as part of this project.  
  
\_\_\_\_\_  
Phillip Eng., P.E.,  
Deputy Chief Engineer - NYSDOT

**F. Design Approval:** The required environmental determinations have been made and the preferred alternative for this project is ready for final design.  
  
\_\_\_\_\_  
Phillip Eng., P.E.,  
Deputy Chief Engineer - NYSDOT

## LIST OF PREPARERS

### Group Director Responsible for Production of the Design Approval Document:

James R. Hofmann, Jr., P.E., Principal, Stantec Consulting Services Inc.

Description of Work Performed: Directed the preparation of the Design Approval Document in accordance with established standards, policies, regulations and procedures, except as otherwise explained in this document.

**Note:** *It is a violation of law for any person, unless they are acting under the direction of a licensed professional engineer, architect, landscape architect, or land surveyor, to alter an item in any way. If an item bearing the stamp of a licensed professional is altered, the altering engineer, architect, landscape architect, or land surveyor shall stamp the document and include the notation "altered by" followed by their signature, the date of such alteration, and a specific description of the alteration.*

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## CHAPTER 1 - EXECUTIVE SUMMARY

### 1.1. Introduction

This report was prepared in accordance with the NYSDOT Project Development Manual, 17 NYCRR (New York Codes, Rules and Regulations) Part 15, and 23 CFR (Code of Federal Regulations) 771. Project needs have been identified (section 1.2.2), objectives established (1.2.3) to address the needs, and cost-effective alternatives developed (1.3). This project is federally funded.

### 1.2. Purpose and Need

#### 1.2.1. Where is the Project Located?

The project is located along the south eastern portion of the Inner Loop expressway within the City of Rochester, Monroe County, New York. The project limits include the following:

Inner Loop – South Clinton Avenue to East Main Street  
Pitkin Street – Chestnut Avenue to East Main Street  
Union Street – Monroe Avenue to East Main Street

See Figures 1.2.1.A, 1.2.1.B and 1.2.1.C for specific project location maps.

#### State Location Map

(See Figure 1.2.1.A)

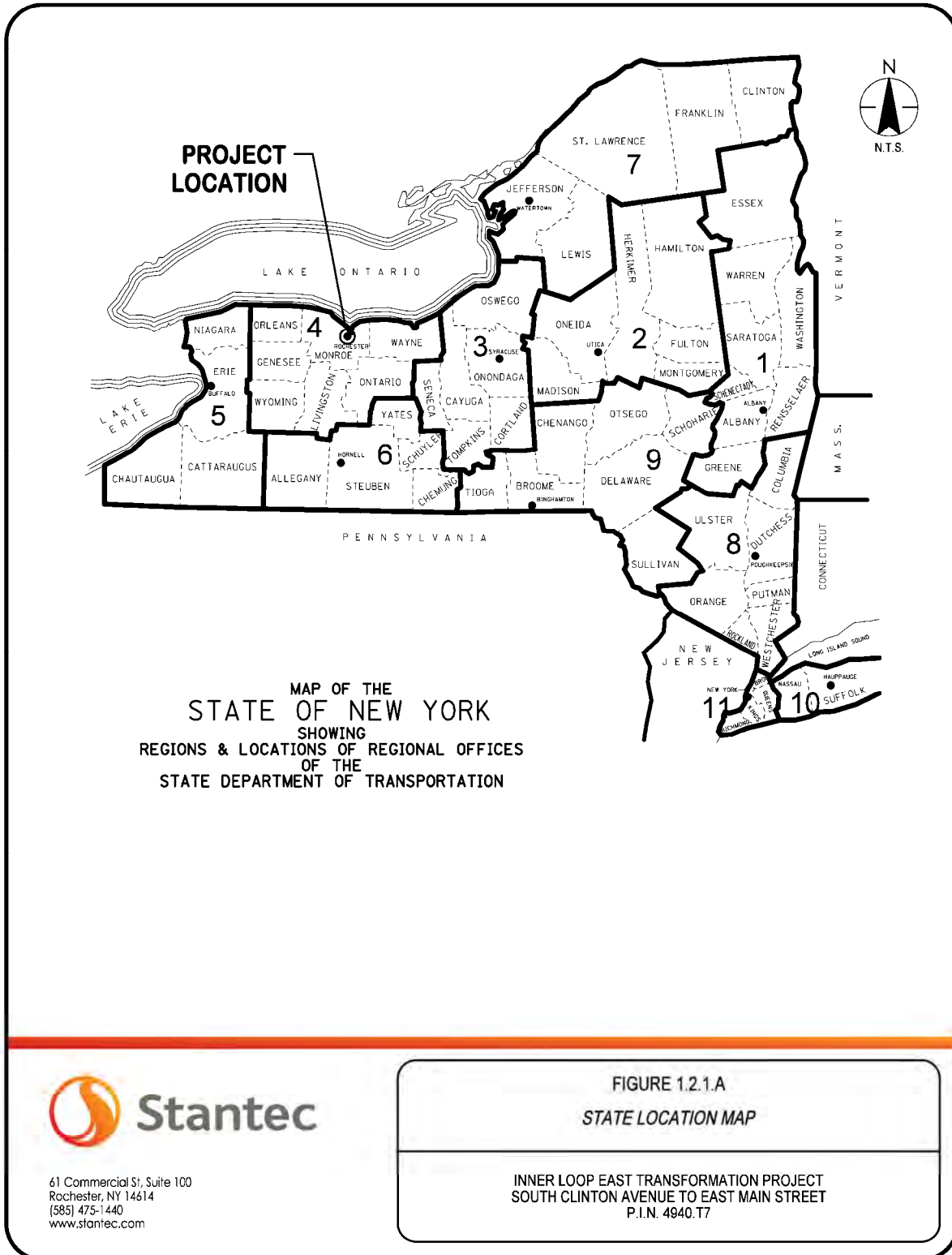
#### Monroe County Map

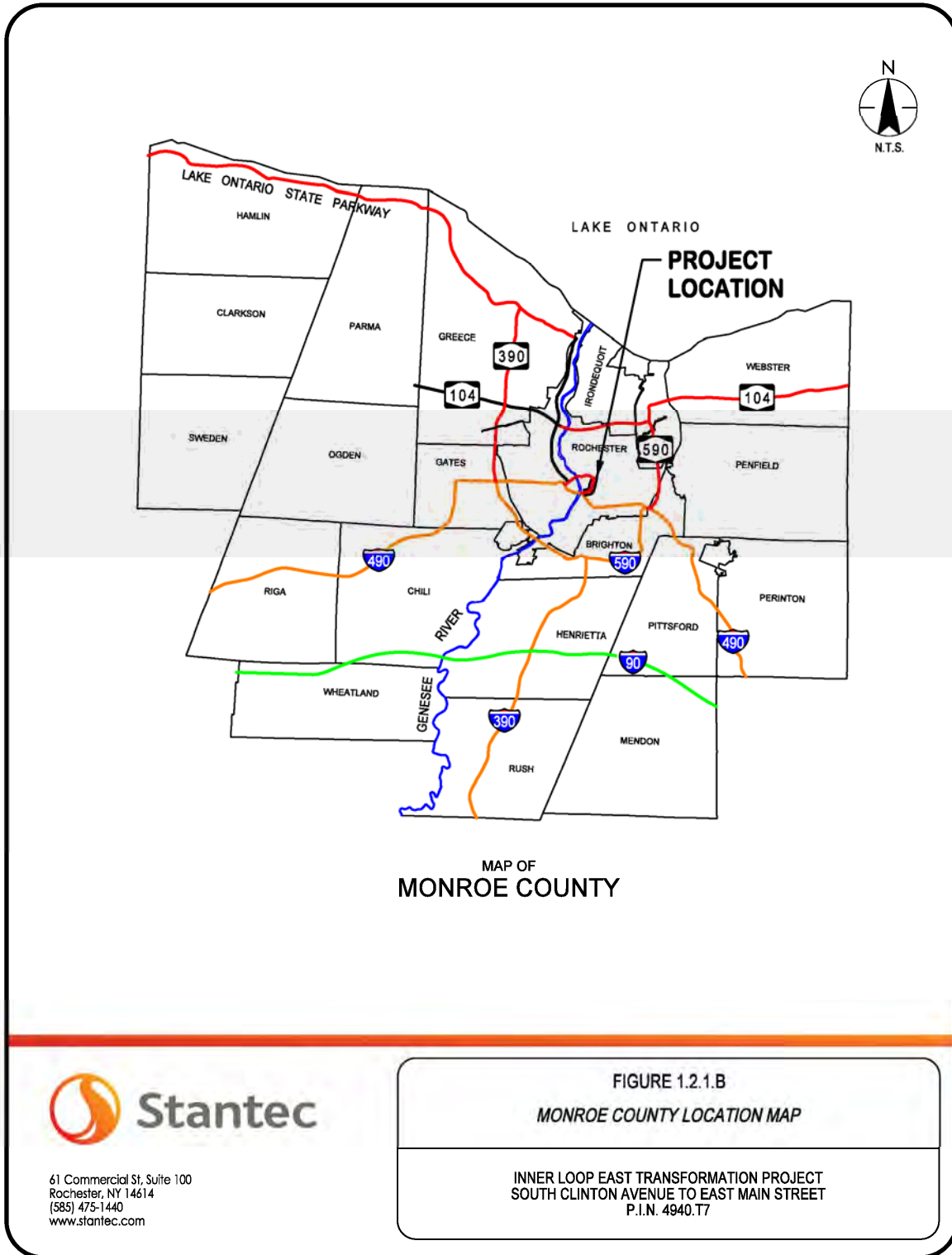
(See Figure 1.2.1.B)

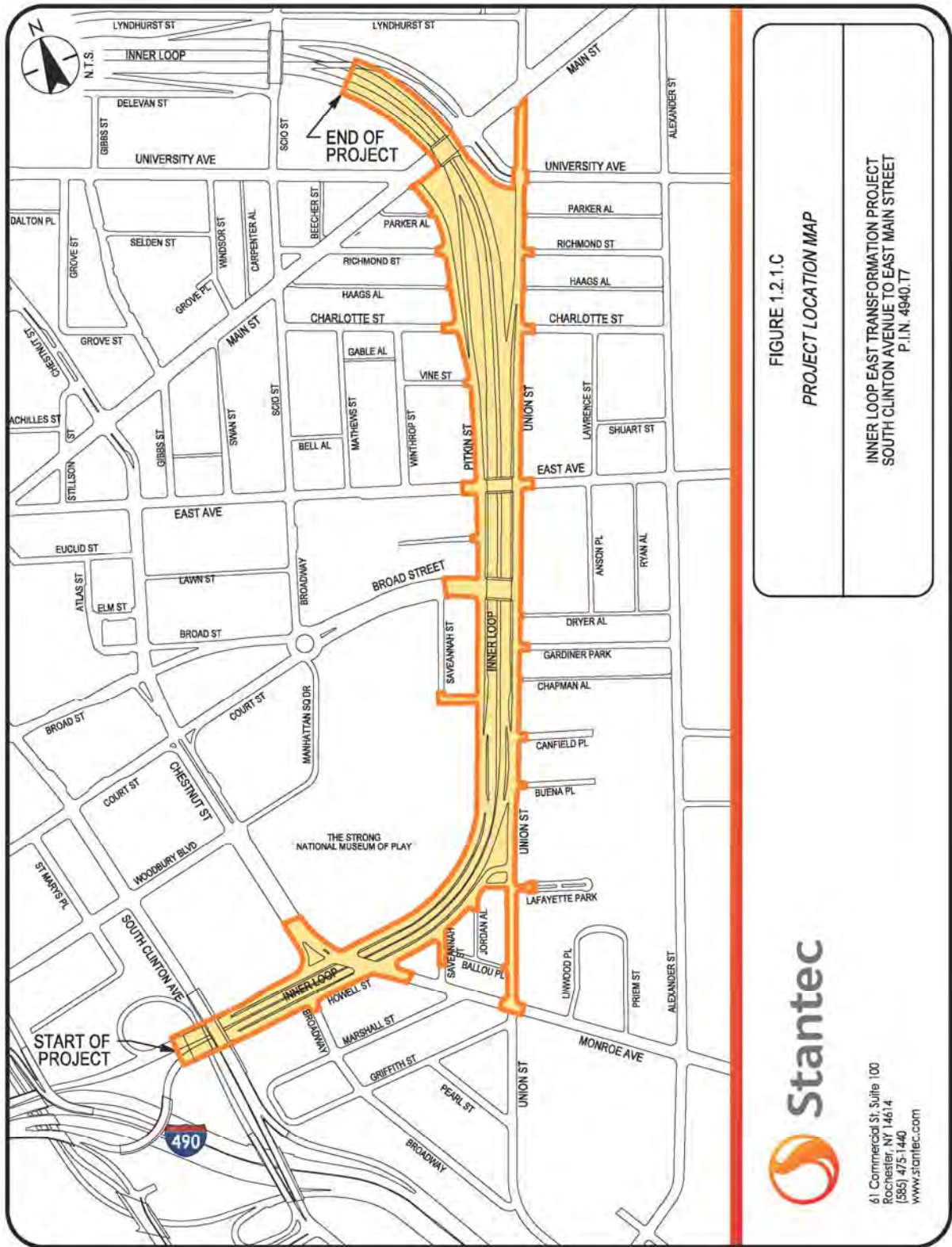
#### Project Location Map

(See Figure 1.2.1.C)









### 1.2.2. Why is the Project Needed?

Over the last 19 years, the City of Rochester has completed various initiatives focused on rejuvenating the Center City and the surrounding neighborhoods, thus providing for future economic opportunities in order to be able to compete in the global marketplace.

With the existing Inner Loop facility reaching 50 years of service, it is now time to evaluate major rehabilitation/reconstruction options for the future, while considering the facility's context within this important urban setting. To accomplish this, the City has reviewed options to redevelop the corridor, rebuild the neighborhood connections, encourage economic redevelopment in the vacated lands by the expressway, and encourage a more sustainable/ multi-modal transportation system.



*Aging features include; bridge railings, light poles, signals, sign structures, guiderail, bridges, and retaining walls.*

### 1.2.3. What are the Objectives/Purposes of the Project?

With the need to address deficiencies and inadequacies associated with this aging 50-year old transportation infrastructure corridor, the project objectives focus on the City's new vision for the southeast segment of the Inner Loop and specifically, the Center City redevelopment efforts, the current/future traffic demand, and community needs. The Inner Loop East Transformation Project is about capturing the opportunity to reconnect neighborhoods, spur economic development and provide an appropriate-scaled complete city street; by eliminating an underutilized grade separated access controlled expressway facility.

Based on the needs identified above, the following project goals and objectives have been established:

#### (1) Support or Enhance Community Quality of Life

- a. *Enhance local connectivity between Center City and adjacent neighborhoods.*
- b. *Reconnect the street grid system by breaking superblocks.*
- c. *Improve the visual built environment through context sensitive design that contributes to roadside/street ambiance, community character and public safety.*
- d. *Encourage sustainable land use patterns that are consistent with historic districts and community needs.*

#### (2) Enhance Economic Opportunities

- a. *Maintain or improve economic opportunities by addressing multi modal access.*
- b. *Create opportunity for new and infill development consistent with community plans.*
- c. *Support local community land use plans.*

#### (3) Enhance the Center City's Transportation Network

- a. *Improve connectivity between Center City and adjacent neighborhoods by reconnecting the street grid system.*
- b. *Promote alternative modes of transportation (Complete Street).*

- c. *Improve geometric design through the application of appropriate design standards to minimize or eliminate non-standard elements and/or geometries.*
- d. *Maintain peak period mobility.*
- e. *Eliminate structural deficiencies using treatment strategies that provide the lowest life cycle maintenance cost or minimize future major investment in reconstruction.*

#### **(4) Preserve or Enhance Environmental Health**

- a. *Minimize or maintain air quality and noise impacts on adjacent neighborhoods.*
- b. *Minimize impacts on designated community landmarks and historic resources.*
- c. *Minimize storm water impacts.*
- d. *Support local, regional and state environmental initiatives.*

### **1.3. What Alternative(s) Are Being Considered?**

The feasible options at this time are to either reconstruct/rehabilitate or remove the expressway. The reconstruction alternative will be considered the traditional “no-build” scenario and will primarily include maintenance and rehabilitation of the existing highway, as needed.

**No-Build (Null) Alternative:** Maintain/Rehabilitate Existing Expressway - Under this alternative, the basic infrastructure would be retained and maintenance and rehabilitation efforts would be performed by primarily the State, along with City and County forces to extend the service life of the existing infrastructure per the maintenance responsibilities of each agency.

**Alternative 1:** Removal of the Inner Loop – This alternative would remove the expressway infrastructure from Monroe Avenue to Richmond Street and fill-in the area to match the existing elevations of the adjoining frontage roads. The frontage road of Pitkin Street would be reconstructed as a one-way local street to maintain access to the adjoining parcels. The frontage road of Union Street would be reconstructed as a two-way urban arterial street. The project would eliminate the bridges at Monroe Avenue, Broad Street, and East Avenue as well as the extensive retaining walls along both sides of the Inner Loop.

For a more in-depth discussion of the design criteria and nonstandard features see Section 3.2.1. Description of the Feasible Alternatives.



**1.4 How will the Alternative(s) Affect the Environment?**

Exhibit 1.4-A Environmental Summary			
NEPA Classification	Class II (Categorical Exclusion with Documentation)	BY	Federal Highway Administration (FHWA)
SEQR Type	Type I	BY	City of Rochester

Exhibit 1.4-B Comparison of Alternatives		
Category	Alternatives	
	Null	1
Wetland impacts	None	None
100 year floodplain impact	None	None
Archeological Sites Impacted	None	None <sup>(1)</sup>
Architectural Sites Impacted	None	None
Noise Impacts	None <sup>(2)</sup>	None <sup>(2)</sup>
Air Impacts	None	None <sup>(3)</sup>
Property impacts	None	7 parcels requiring Temporary Easements or Permanent Easements

Notes:

1. A Phase II Archeological study was conducted for two locations within the project limits. See Section 4.4.11 for further information.
2. A noise Analysis was conducted for the project. Existing noise levels approach or exceed thresholds. Noise Levels for Alternative 1 were within 1 DBA of the null alternative. See Section 4.4.17 for further information.
3. An air Analysis was conducted for the project. Although some pollutants increase they do not exceed regulated thresholds. See Section 4.4.15 for further information.

Refer to Chapter 4 for further information.

Anticipated Permits/Certifications/Coordination:

Permits

NYSDEC

- None required

NYS DOT

- Highway Work Permit (Perm 33)

NYS DOH

- Application for Public Water Supply Improvement (DOH 348)
- Application for Sanitary Facilities (SAN 65) and (SAN 72)



## Coordination

- Coordination with Federal Highway Administration (FHWA)
- Coordination with New York State Department of Transportation (NYSDOT)
- Coordination with New York State Historic Preservation Officer (SHPO)
- Coordination with Monroe County Department of Transportation (MCDOT)
- Coordination with Monroe County Division of Pure Waters
- Coordination with Genesee Transportation Council (GTC)
- Coordination with Rochester Genesee Regional Transit Authority (RGRTA)
- Coordination with Rochester City School District (RCSD)
- Coordination with Rochester City Police Department (RPD)
- Coordination with Rochester City Fire Department (RFD)
- Coordination with Public and Private Utilities
- Coordination with Rochester Regional Community Design Center (RRCDC)
- Coordination with Rochester Cycling Alliance (RCA)
- Coordination with Rochester Downtown Development Corporation (RDDC)
- Coordination with Business and Neighborhood Groups

## Others

- Local Permits (as Required)

## 1.5. What Are The Costs & Schedules?

The Inner Loop Transformation Project will be funded through the Transportation Investment Generating Economic Recovery (TIGER) program with a 75% federal share and a 25% local share.

Design Approval is anticipated in March 2014 with construction beginning in October of 2014.

<b>Exhibit 1.5A Project Schedule</b>	
<b>Activity</b>	<b>Date Occurred/Tentative</b>
Design Approval	March 2014
ROW Acquisition	May 2014
Construction Start	October 2014
Construction Complete	November 2017

<b>Exhibit 1.5B Comparison of Alternatives Project Costs (Millions)</b>		
Project Costs	Alternative	
	Null	Alternative 1
Construction	\$0	\$22.085
ROW Costs	\$0	\$0.015
<b>Total Construction Costs</b>	<b>\$0</b>	<b>\$22.100</b>

## 1.6. Which Alternative is Preferred?

The feasible and prudent alternative that best meets the project objectives is Alternative 1. See Section 3.2.1 for a description of this alternative.

## 1.7. What are the Opportunities for Public Involvement?

Since 2001, when the City began considering the merits of redesigning the expressway into a properly-scaled urban arterial corridor, the City of Rochester has solicited public input. The following summarizes the City's Public Involvement Program for this project.

*Inner Loop Improvement Study (2000 to 2001):* This phase included a Technical Advisory Committee (numerous meetings), a Citizens Advisory Committee (numerous meetings), and a series of information meetings (June 22, 2000 and November 13, 2000).

*Scoping Phase (2008-2013):* Various meetings were held with the Technical Advisory Committee, as listed below. The Technical Advisory Committee included representatives from the City of Rochester, New York State Department of Transportation, Monroe County Department of Transportation, and Genesee Transportation Council. In addition, a public information meeting was also held in order to disseminate project-related information as well as solicit public input and comments. In the fall of 2012, the City also initiated a project web site to enhance the project's communication efforts with the Public.

- Technical Advisory Committee Meeting, October 15, 2008
- Technical Advisory Committee Meeting, January 22, 2009
- Technical Advisory Committee Meeting, March 5, 2009
- Technical Advisory Committee Meeting, December 8, 2009
- Technical Advisory Committee Meeting, August 22, 2013
- Public Information Meeting, August 28, 2013

*Preliminary Design Phase (2013 - current):* The City continues to engage the public in the overall development phases for this project.

- Public Open House, November 6, 2013

You may offer your comments in a variety of ways.

- There will be a Public Information Meeting followed by a Public Hearing scheduled on **February 4, 2014** where you can talk to municipal representatives, give comments to a stenographer or leave written comments.
- You can contact (please include the six digit Project Identification Number (PIN) 4940.T7):

Paul Way, P.E., Project Manager

email: Paul.Way@CityofRochester.gov  
Telephone: (585) 428-7383

Mailing Address  
City of Rochester  
DES/Architecture & Engineering  
City Hall, 30 Church Street, Room 300B  
Rochester, New York 14614-1279

- You can visit the Project's website: <http://www.cityofrochester.gov/InnerLoopEast/>

The deadline for submitting comments on this report circulation is **February 14, 2014**.

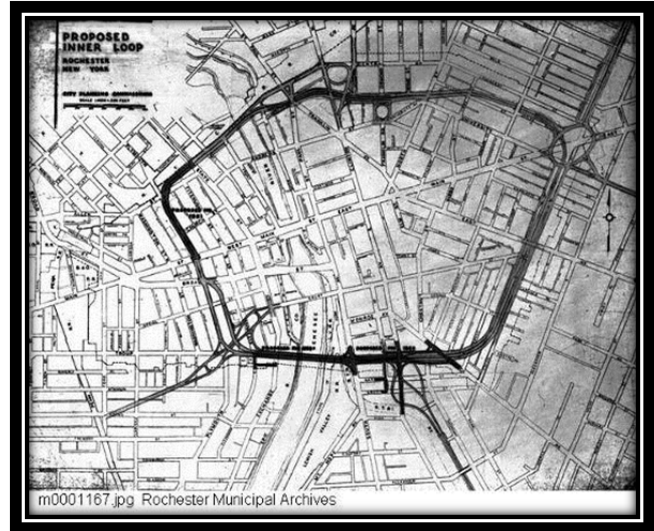
The remainder of this report is a detailed technical evaluation of the existing conditions, the proposed alternatives, the impacts of the alternatives, copies of technical reports and plans, and other supporting information.

## CHAPTER 2 - PROJECT CONTEXT: HISTORY, TRANSPORTATION PLANS, CONDITIONS AND NEEDS

This chapter addresses the history and existing context of the project site, including the existing conditions, deficiencies, and needs for this part of the Rochester Inner Loop corridor.

### 2.1. Project History

With the vehicle population explosion in and around the City of Rochester in the 1930's and 1940's, the New York State Department of Transportation and the City of Rochester developed plans in the late 1940's for a network of boulevards and expressways designed to reduce traffic congestion on the local city streets and improve access around the center city. The idea for a beltway around Rochester was conceived in the 1950s. At that time, the population of Rochester was roughly 332,000, which translated into poor traffic conditions within downtown. Construction on the highway therefore began in the early 1950s. Many structures were razed to make way for the route, which was constructed through densely populated neighborhoods that surrounded downtown. In 1965, the Inner Loop expressway was officially opened to traffic.



*Historical Plan of the Inner Loop*

In the time since the Loop's construction, the population of Rochester has dropped to 210,565, as of the 2010 census, a reduction of more than one-third. Over the past decade, traffic volume has remained constant on the roadway in some areas; however, overall usage from its completion to today has declined as jobs and residents continue to migrate away from the inner city. The original Inner Loop has accomplished its purpose.

More recently, the southeast section of the Inner Loop between Monroe Avenue and East Main Street has been identified as a viable candidate for removal. The southeast section of the Inner Loop is a four to six lane divided expressway with parallel two to three lane one-way frontage roads (Union and Pitkin Streets). The frontage roads and the Inner Loop are connected with entrance and exit slip ramps located at service points in the system. This results in a facility that in some places has as many as twelve travel lanes and occupies a width ranging from 182 feet to 355 feet (frontage road outside curb to frontage road outside curb). This section serves approximately 6,990 vehicles per day. Those volumes could be served by a lesser facility such as a community-scale urban arterial, which is more in context with the neighborhood and prior plans that call for the "right-sizing" of city streets.

Over the last 19 years, the City of Rochester has completed various initiatives focused on revitalizing the Center City and the surrounding neighborhoods in order to rejuvenate districts, thus providing for future economic opportunities in order to be able to compete in the global marketplace. These City initiatives have included:

- *The Vision 2000 Plan*
- *The Neighbors Building Neighborhoods Program*
- *City of Rochester's Inner Loop Improvement Study, 2001*
- *Center City Master Plan, 2003*

- *Rochester Regional Community Design Center – Charrette – A Community Based Vision Plan for Downtown Rochester, 2007*
- *The Renaissance 2010 Comprehensive Plan*
- *GTC Long Range Transportation Plan*
- *Project Scoping Report, 2013*

The 2001 Rochester Inner Loop Improvement Study assessed the existing configuration of the Inner Loop and ultimately made recommendations for modifications. The 2001 Inner Loop study looked at a broader study area that included the eastern section, from the I-490 interchange on the south, to the North Clinton Avenue interchange on the north side of the Central Business District. The 2001 Inner Loop initial study area was broken into three segments covering the northeast section from East Main Street to North Clinton Avenue, the southeast section from Monroe Avenue/Chestnut Street to East Main Street, and the I-490/Inner Loop interchange. Numerous conceptual alternatives were developed at that time along with an implementation program that recommended that the Inner Loop from Monroe Avenue to East Main Street be eliminated as the first phase.

Since then, the 2003 Center City Master Plan and the 2007 Downtown Charrette Report evaluated the challenges and opportunities associated with the possible removal or transformation of the Inner Loop in the southeast quadrant. Both studies focused on creating a plan for the downtown area including the evaluation of needs for each of the neighborhood districts. The 2007 Downtown Charrette Report identifies the need to connect distinctive districts and neighborhoods in Downtown. The Southeast Loop area occupies some of the most valuable real estate in Center City. Within the southeast area, connecting the East End (west side of Inner Loop from Main Street to Broad Street), Upper East End (east side of Inner Loop from University to north of Howell) and the Manhattan Square (west side of Inner Loop from Broad Street to Monroe Ave) districts is essential, and removing the southeast section of the Inner Loop will make it possible.

In each of these efforts, there was a reoccurring theme that identified the Inner Loop as one of the focus areas for the City of Rochester. The energy and momentum surrounding the City's revitalization and the desire to reconnect various districts and neighboring communities provided the catalyst for this Inner Loop study. Therefore, the transformation of the Inner Loop project is consistent with the local master plan goals and objectives for this area.

## **2.2. Transportation Plans and Land Use**

### **2.2.1. Local Plans for the Project Area**

#### **2.2.1.1. Local Comprehensive Plans (“Master Plan”) -**

The Long Range Transportation Plan for the Genesee-Finger Lakes Region 2035 identifies the direction for the region's transportation system and serves as the framework for future investment in highways, bridges, public transportation, bicycle and pedestrian paths and trails, and transportation-related air quality improvement projects. One of the illustrative projects (*Projects that represent actions above and beyond those that can reasonably be expected to be accomplished given limited federal resources*) in the plan calls for the reconstruction of the southeast portion of the Inner Loop as an at-grade boulevard based on a strong interest in continuing the revitalization of Downtown Rochester. As envisioned, the reconstruction would reclaim land for private, taxable development, and improve connections between Downtown Rochester and surrounding neighborhoods. The reconstructed facility would allow for bicycling and walking, and ultimately improve the overall neighborhood cohesion.

The Regional Planning Group has reviewed the local comprehensive plan prepared for the Genesee-Finger Lakes Region that includes the City of Rochester. This project is consistent with the local comprehensive plan.

### 2.2.1.2. Local Private Development Plans –

There are various public developments planned near the project area that will impact travel patterns and operations. Below is a listing of projects that will require coordination during final design:

- Center City Two-Way Conversion Project (2016)
- Inner Loop Bridge over the Genesee River (2014)
- Bridge Painting I-490 (2014)

### 2.2.2. Transportation Corridor

#### 2.2.2.1. Importance of the Project Route Segment -

The Inner Loop was originally planned, designed and constructed as part of a network of boulevards and expressways designed to reduce traffic congestion on the local city streets and improve access around the center city. The existing corridor (South Clinton Avenue to East Main Street) is underutilized for the infrastructure present (10 to 12 travel lanes). In the project study area, the frontage roads of Pitkin and Union Street combined carry more volume than the expressway does today.

#### 2.2.2.2. Alternate Routes –

The frontage roads of Pitkin and Union Street would be suitable as a permanent replacement for the southeast section of the Inner Loop. A regional traffic model was developed and evaluated by GTC, NYSDOT, MCDOT and the City of Rochester to determine the impacts the removal of the expressway system would have on area traffic. The results concluded that although traffic volumes would increase on Union Street, the remaining expressway network (Inner Loop, I-490, I-390 and I-590) and surrounding arterial network would not be impacted. A copy of the results is included in Appendix F.

#### 2.2.2.3. Corridor Deficiencies and Needs -

The following provides an overview of the project needs. These are a summary of the information contained within this document, which assesses the existing and future conditions.

**Community Cohesion:** Past public input, through various City community initiatives, has identified significant challenges surrounding the southeast section of the Inner Loop expressway, primarily related to livability and accessibility. These challenges include: overcoming the barrier effect, right-sizing the streets, breaking up the superblocks, and maximizing development potential. A seamless connection to the greater downtown and the southeast neighborhoods centered on Monroe, East and University Avenues is desired. Creating gateways to these districts, creating civic space and new/infill development to reconnect various neighborhoods has been identified. Streets need to be 'right-sized' and reconceived as a complete environment for pedestrians, bicyclists, and transit users as well as private vehicles.



*The vastly underutilized Inner Loop expressway is a significant barrier for motorists, pedestrians, bicyclists and community cohesion.*

**Economic Redevelopment:** The southeast loop area occupies some of the most valuable real estate in Center City and optimal use needs to be considered. The city has completed various initiatives focused on revitalizing the Center City and the surrounding neighborhoods (East End, Upper East End, Manhattan Square). The City is committed to rejuvenating the City by providing future economic development opportunities that will allow the region to compete in the global marketplace.

**Capacity:** The overall expressway system is operating significantly under capacity with traffic volumes better reflecting arterial levels. There is more traffic on the combined adjacent service roads (Union and Pitkin Streets) than is using the southeast section of the Inner Loop.

**Highway Design:** When the Inner Loop was constructed in the 1960s, highway design standards were different from today. The primary study corridor geometrics represent areas where deficiencies (non-standard and non-conforming features) are evident between past and present design standards. Inner Loop non-standard design features include: horizontal curvature, super elevation, sight distance and road widths (shoulders, medians and clearances). Non-conforming features include the layout of the existing slip ramps, which provide ingress and egress to the Inner Loop.

**Structural Issues:** There are four major bridges (Monroe Avenue, Broad Street, East Avenue, and East Main Street) within the project limits. The Monroe Avenue, East Avenue, Broad Street and East Main Street bridges will require future investment to repair current deficiencies.

**Safety:** The southeast section of the Inner Loop expressway is not shown to have safety concerns due to limited traffic volumes. Accident rates are below the statewide average for similar interstate systems. There are safety concern areas on the local system such as along the Union Street corridor (e.g. East Avenue and Broad Street intersections), with safety concerns attributable to sight distance restrictions from adjacent buildings and bridge railings over the Inner Loop. Accident records indicate that the Inner Loop has a higher frequency of more severe accidents than the adjacent frontage road segments. This is attributable to higher speeds on the expressway.

#### **2.2.2.4. Transportation Plans -**

This project is on the region's Transportation Improvement Program (TIP) as project number H01-05-MN1, the Statewide Transportation Improvement Program (STIP) as PIN 4940.T7, and on the Genesee Transportation Council's Long Range Transportation 2035 plan as one of just five illustrative projects. Funding sources have been allocated to complete the preliminary and final engineering. Federal FY2013 TIGER Discretionary Grant funds to finance the construction phase have been identified and secured.

#### **2.2.2.5. Abutting Highway Segments and Future Plans for Abutting Highway Segments -**

The abutting highway segments include South Union Street and Pitkin Street. South Union Street is a three lane, one-way northbound street on the east side of the Inner Loop with on-street parking. South Union Street functions as a frontage road to the Inner Loop with various on-off ramps. Pitkin Street is a 2-3 lane southbound one-way city street along the west side of the Inner Loop with on-street parking. Pitkin Street also functions as a frontage road to the Inner Loop with various on-off ramps. Both abutting road segments provide access to other city streets and properties. No current plans exist for either of these streets at this time.

There are no plans to reconstruct or widen highway segments within the project corridor, or the adjoining segments, within the next 20 years.

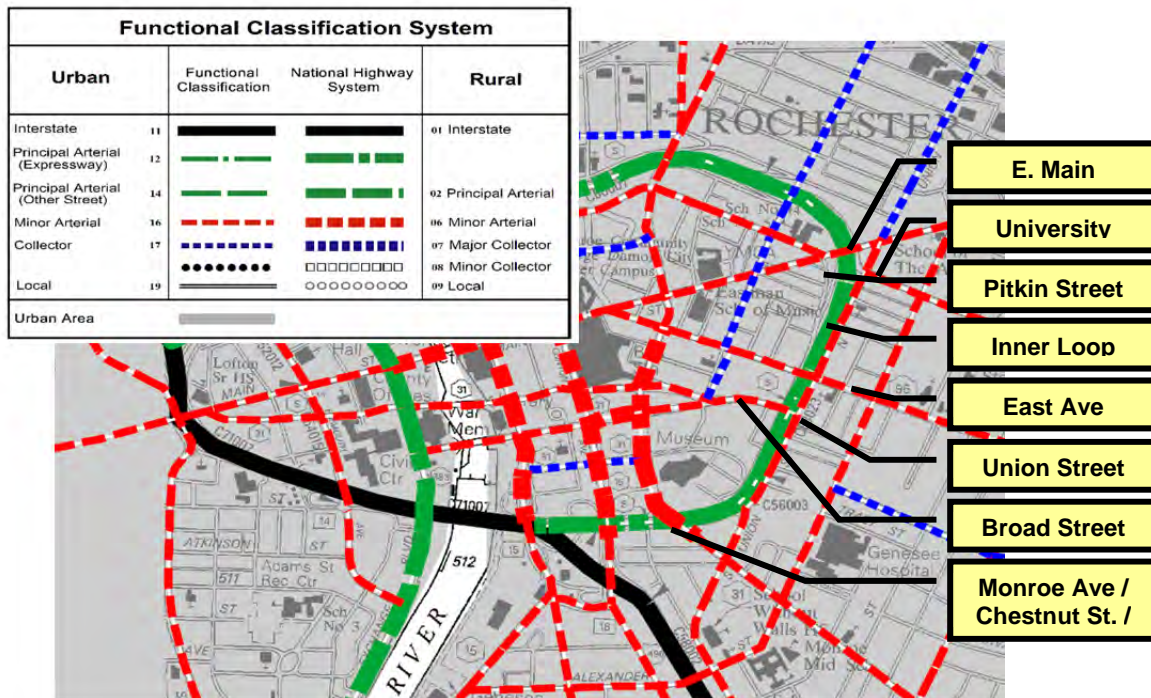
### 2.3. Transportation Conditions, Deficiencies and Engineering Considerations

#### 2.3.1. Operations (Traffic and Safety) & Maintenance

##### 2.3.1.1. Functional Classification and National Highway System (NHS) –

Figure 2.3.1.1 shows the Functional Classification and National Highway System classifications for the Inner Loop expressway and surrounding roadway network. The Inner Loop is classified as a Principal Arterial Expressway on the National Highway System. I-490 is classified as an Interstate expressway. All other adjacent roadways included in the study area are classified as Minor Arterials; with the exception of Pitkin Street which is classified as a local city street.

Figure 2.3.1.1 - Functional Classification



Source: NYSDOT, Region 4, 2000 Urban Functional Classification Map, Rochester Urban

Exhibit - 2.3.1.1 Classification Data		
Route(s)	Inner Loop (NY 940T)	Union Street
Functional Classification	Urban Principal Arterial Expressway	Urban Minor Arterial
National Highway System (NHS)	Yes	No
Designated Truck Access Route	Yes	No
Qualifying Highway	Yes	No
Within 1 mile of a Qualifying Highway	Yes	Yes
Within the 16' vertical clearance network	No	No

National Network of Qualifying Highways – I-490 & NY 940T  
 Qualifying and Access highways – I-490 & NY 940 T

**2.3.1.2. Control of Access -**

Access is fully controlled on the Inner Loop expressway, with slip ramps from both frontage roads (Union and Pitkin Streets) providing points of ingress/egress for motorists. Access is uncontrolled on Union and Pitkin Streets, as well as the intersecting roadways such as East Main Street, University Avenue, East Avenue, Broad Street and Monroe Avenue.

**2.3.1.3. Traffic Control Devices –**

The Inner Loop is a free-flowing urban expressway with no traffic signals; stop sign control devices or ramp metering. The following adjacent intersections are controlled by traffic signals:

Intersection	Signalization	Comments
E. Main/University/Pitkin	diamond interchange with an extra road in the middle (Inner Loop/University connector).	
E. Main/Inner Loop/University		
E. Main/Union		
Union/University	One Controller	
East Avenue/Pitkin	One controller, uses standard diamond interchange operation.	
East Avenue/Union		
Broad Street/Pitkin	One controller, uses standard diamond interchange operation.	
Broad Street/Union		
Monroe/Pitkin	One controller, uses standard diamond interchange operation.	Street name changes to Chestnut Street on the north leg of the interchange.
Monroe/Howell		
Monroe/Union	One Controller	

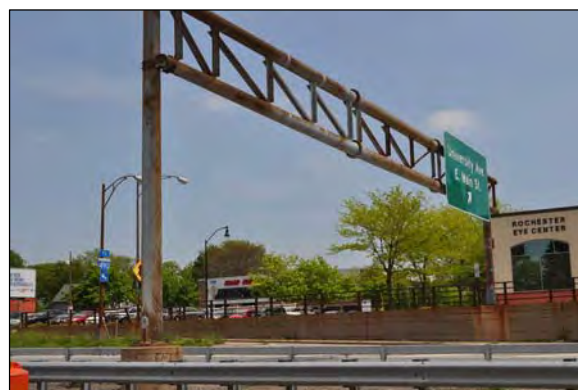
Other entrances/exits to/from the Inner Loop are yield/stop controlled.

Most of the traffic control devices, such as sign structures, signals and traffic signs are nearing the end of their design life and are in need of replacement.

**2.3.1.4. Intelligent Transportation Systems (ITS) –**

MCDOT Operates traffic cameras at the following intersections that offer views of the project corridor:

- E. Main Street @ University / Pitkin
- Monroe Ave. @ S. Union Street
- East Ave. @ Alexander Ave. (outside project limits)
- Broad Street @ Chestnut (outside project limit)



*Aging Sign Structures and Traffic Signs in need of replacement*

NYS DOT Operates traffic cameras at the following locations that offer views of the project corridor:

- I-490 Bridge over the Genesee River

To provide coverage of the corridor, MCDOT has requested that additional cameras be installed at the following locations:

- S. Union Street @ Broad Street or S. Union Street @ East Ave
- Monroe Ave. / Chestnut @ Howell Street



### 2.3.1.5. Speeds and Delay –

A speed and delay study was not conducted specifically for this project; however a “Travel Time Data Collection Program” report was conducted by the Genesee Transportation Council in October 2008. Speed and travel time data was collected for the entire length of the Inner Loop from I-490 to I-490 during the morning, mid-day and evening peak hours. The average speeds and travel times are summarized in the table below. There is no delay, associated with traffic congestion within the corridor, in the morning, mid-day or evening peak hours.

Exhibit - 2.3.1.5 (A) Speed Data		
Route	Inner Loop	All City Streets
Existing Speed Limit	45 MPH	30 MPH

Exhibit - 2.3.1.5 (B) Speed Data – Operating Speed per Data Collection Program							
Direction	Distance	Mid-Day (Free Flow)		Morning Peak Hour		Evening Peak Hour	
		Speed (MPH)	Travel Time (min)	Speed (MPH)	Travel Time (min)	Speed (MPH)	Travel Time (min)
East	2.6 miles	50.2	3.1	50.8	3.1	46.6	3.4
West	2.8 miles	48.4	3.6	49.1	3.6	47.1	3.4

### 2.3.1.6. Traffic Volumes –

In 2008 traffic turning movement counts were obtained during the weekday morning and evening peak travel hours along the project section of the Inner Loop and adjacent intersections. Heavy vehicle (truck and bus) data was also obtained at each of the intersections and reflected in the analysis.

The Genesee Transportation Council's Regional Travel Demand Model for the years 2005 to 2014 reflects all the planned land use changes in and around the Rochester Central Business District (CBD). While change in traffic between 2005 and 2014 varies depending on what roadway section was reviewed, at most it shows a maximum increase of 10% over that period. Traffic growth along most roadway sections however is less than 5% (or 0.625% per year) during the forecasted 8 year period. Thus, to determine Inner Loop traffic at ETC+20 or for 2035, the following steps were taken:

- **2008 Existing Traffic** – current counts were used.
- **2015 (ETC)** – the MCDOT's future (2015) Synchro traffic files that reflect land use changes (i.e., Midtown, Chestnut/Broad Street projects and other residential /commercial) proposed in the CBD were used.
- **2035 (ETC+20) No-Build Traffic** - 2015 forecasted traffic was increased by 0.625% per year using a straight line percent increase.

This method of forecasting future travel for the project was presented, reviewed and accepted by NYSDOT, MCDOT, GTC and the City of Rochester.

#### 2.3.1.6. (1) Existing traffic volumes –

Refer to Exhibits 2.3.1.6-1 for a summary of the traffic data. A discussion of the traffic count methodology, peak hour, and turning movement volumes for intersections with identified accident

problems, all major intersections, & major traffic generator driveways/entrances are included in Appendix G.

Exhibit - 2.3.1.6-1 Existing and Forecast Traffic Volumes												
Route	Inner Loop Expressway				Union Street				Pitkin Street			
	North of Monroe Avenue		North of East Main Street		South of University Avenue		North of Monroe Avenue		South of East Main Street		North of Monroe Avenue	
Year	ADT	DHV	ADT	DHV	ADT	DHV	ADT	DHV	ADT	DHV	ADT	DHV
Existing (2008)	6,990	600	10,560	690	5,250	525	4,400	440	2,050	205	2,400	240
ETC (2015)	6,990	600	10,560	710	5,600	560	4,400	440	2,050	205	2,400	240
ETC+20 (2035)	7,920	680	11,935	800	6,350	635	4,900	490	2,300	235	2,700	270

Note: ETC is the Estimated Time of Completion

#### 2.3.1.6. (2) Future no-build design year traffic volume forecasts –

The Estimated Time of Completion (ETC) +20 design year was selected per PDM Appendix 5. An ETC+30 year projection was not completed as the project is not near a bridge or large culvert. Peak hour turning movement volumes for intersections with identified accident problems, all major intersections, & major traffic generator driveways/entrances are included for the design year(s) in Appendix G.

#### 2.3.1.7. Level of Service and Mobility -

##### 2.3.1.7. (1) Existing level of service and capacity analysis –

The Highway Capacity Manual (HCM 2000) and the Synchro7 software were used to determine Level of Service (LOS) for current operating conditions. The analysis found that the Level of Service on all roadway segments of the Inner Loop and adjacent intersections are operating well; all with Level of Service (LOS) of “C” or better with no individual turning movements below LOS “D”.

##### 2.3.1.7. (2) Future no-build design year level of service –

Future conditions at the estimated time of completion (ETC) and at ETC+20 for the null or no-build year will continue to deteriorate. Capacity analysis indicates that overall intersections will remain at good levels, Level “C” or better; however, various movements at certain intersections will start to degrade to Level “E” or below. Taking a closer look at these locations, higher volume to capacity ratios and queuing are also noted. These lower levels of operation are primarily concentrated at the Juncture of East Main Street/ University/ Union Street/ Inner Loop ramp area. Exhibit 2.3 provides a summary of the Level of Service results for Existing Conditions, ETC and ETC+20.

Exhibit - 2.3.1.7-1 Intersection Level of Service (Null Alternative)							
Intersection	Approach & Movement	Existing Conditions (2008)		Estimated Time of Completion (ETC) (2015)		ETC+20 (2035)	
		AM	PM	AM	PM	AM	PM
Monroe Avenue & Inner Loop EB Ramps	NB THRU/RT	A	A	B	B	B	B
	SB LT/THRU	A	A	A	A	A	A
	EB THRU/LT	D	D	D	D	D	D
	EB RT	B	B	A	B	A	B
	<b>OVERALL</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>
Monroe Avenue & Inner Loop WB Ramps	NB LT	A	A	A	A	A	A
	NB THRU/RT	B	A	B	A	B	B
	SB THRU	B	A	B	A	B	A
	WB THRU/RT	C	D	C	D	C	D
	<b>OVERALL</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>
Monroe Avenue & South Union Street	NE LT	B	D	B	D	C	D
	NE THRU	B	D	B	D	C	D
	SE LT	A	A	A	A	A	A
	SE THRU	B	A	B	A	B	A
	NW THRU	A	A	B	A	B	A
	NW RT	A	A	A	A	A	A
	<b>OVERALL</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>
South Union Street & Broad Street	NB LT	D	D	D	D	D	D
	NB THRU	C	C	C	C	C	C
	EB LT	A	A	A	A	A	A
	<b>OVERALL</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>B</b>	<b>C</b>	<b>B</b>
Pitkin Street & Broad Street	SB LT/THRU	B	D	B	C	B	C
	EB THRU	A	A	A	A	A	A
	EB RT	A	A	A	A	A	A
	WB LT/THRU	A	A	A	A	A	A
	<b>OVERALL</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>
South Union Street & East Avenue	NB THRU/LT	C	D	C	D	C	D
	NB RT	B	B	B	B	B	B
	EB THRU	A	A	A	A	A	A
	WB THRU	A	C	A	C	A	C
	<b>OVERALL</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>

Exhibit - 2.3.1.7-1 Intersection Level of Service (Null Alternative)							
Intersection	Approach & Movement	Existing Conditions (2008)		Estimated Time of Completion (ETC) (2015)		ETC+20 (2035)	
		AM	PM	AM	PM	AM	PM
Pitkin Street & East Avenue  Pitkin Street & East Avenue (Continued)	SB LT	D	D	D	D	D	D
	SB THRU	D	C	D	C	D	C
	EB THRU	B	B	B	B	B	B
	EB RT	A	A	A	A	A	A
	WB THRU	A	A	A	A	A	A
	<b>OVERALL</b>	<b>C</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>
University Avenue & South Union Street	NB LT	C	C	C	C	C	C
	NB THRU/RT	B	C	B	C	B	C
	EB THRU	A	A	A	A	A	B
	WB LT/TH/RT	A	A	A	A	A	B
	<b>OVERALL</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>
East Main Street & Union Street	NB LT	D	D	D	D	D	D
	NB THRU/RT	C	C	C	C	C	D
	SB LT/RT	B	B	B	B	B	D
	EB LT	A	A	A	A	A	A
	EB THRU	A	A	A	A	A	A
	WB THRU	C	D	C	D	C	F
	<b>OVERALL</b>	<b>B</b>	<b>C</b>	<b>B</b>	<b>C</b>	<b>B</b>	<b>D</b>
East Main Street & Inner Loop Ramps	NB LT	D	D	D	D	D	D
	NB THRU	C	D	C	D	C	D
	SB LT	D	D	D	D	E	D
	SB THRU/RT	D	D	D	D	D	D
	EB LT	C	B	C	B	C	B
	EB THRU	C	B	C	B	C	C
	EB RT	A	A	A	A	A	A
	WB THRU	A	B	A	B	B	B
	WB RT	A	A	A	A	B	A
<b>OVERALL</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	
East Main Street & University Avenue / Pitkin Street	SB LT	D	C	D	C	D	C
	SB THRU/RT	D	B	D	B	D	C
	EB LT	B	C	C	C	C	C
	EB THRU	C	C	C	C	C	C
	WB LT	A	A	A	A	A	A
	WB THRU	A	A	A	A	A	A
	WB RT	A	A	A	A	A	A
	<b>OVERALL</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>

### 2.3.1.8. Safety Considerations, Accident History and Analysis –

Accident information (39-month period between January 1, 2005 and March 7, 2008) was obtained for the section of the Inner Loop expressway from the Rt. 490 interchange to north of the East Main Street interchange. The accident history identified a total of 49 accidents occurred along the Inner Loop (mainline) in this area. The reportable accidents accounted for 30 (61%) of the total accidents and the non-reportable accidents accounted for 19 (39%) of the total accidents. The following list summarizes the types and number of reportable accidents. The rest of the assessment (analysis, rates and potential corrective action) will be related to the reportable accidents only that occurred in the corridor. Exhibit 2.3.1.8.A shows predominant accident types.

Exhibit - 2.3.1.8.A Collision Summary Inner Loop Expressway, From I-490 to East Main Street		
Type of Collision	Number	Percentage
Fixed Object	17	57
Sideswipe	5	17
Rear End	4	13
Right Angle	1	3
Head-On	1	3
Unknown/Other	2	7

The accident severity included 13 injuries (43%) and 17 (57%) property damage only. Fifty three percent of all accidents occurred during evening hours with 55% occurring on dry pavement conditions. Seventy percent of the vehicles involved were traveling in a westerly direction. As indicated above, 57% of the accidents involved collision with fixed objects (guide rail, curbing, abutment, debris). Only four of the 30 accidents occurred at a merge/diverge ramp location, with the majority of accidents occurring on the mainline along the horizontal curve between East Main Street and East Avenue. The accident rate for the corridor was calculated and compared to statewide accident rates for Principal Arterial expressways. The current accident rate is 2.48 accidents per million vehicle miles (acc/mvm), which is below the statewide average of 2.72 acc/mvm. Collision diagrams, detailed accident history, and rate calculations are provided in Appendix H.

An extended study area was also reviewed that included the following at grade adjacent corridors: East Main Street, Monroe Avenue/Chestnut, Pitkin Street, Union Street, and a portion of Interstate 490. Exhibit 2.3.1.8.B summarizes the number of reportable accidents and the calculated accident rates for the corridor and intersections for each of these adjacent roadways. Locations experiencing above state or county wide accident rates are in bold.

Appendix H includes a full detailed summary of the entire accident history within the extended study area.

Exhibit - 2.3.1.8.B – Accident Rates			
Intersection	Number of Accidents	State / County Rate	Actual Rate (ACC/MEV)
E. Main @ University/Pitkin	7	0.26 / 0.46	0.33
E. Main @ University/Inner Loop	40	0.26 / 0.46	<b>0.96</b>
E. Main @ N. Union Street	23	0.26 / 0.46	<b>0.83</b>
Pitkin @ East Ave.	8	0.34 / 0.22	<b>0.44</b>
Pitkin @ Broad	4	0.34 / 0.22	<b>0.66</b>
N. Union @ University	14	0.34 / 0.22	<b>0.65</b>

<b>Exhibit - 2.3.1.8.B – Accident Rates</b>			
<b>Intersection</b>	<b>Number of Accidents</b>	<b>State / County Rate</b>	<b>Actual Rate (ACC/MEV)</b>
Union @ East Ave.	17	0.34 / 0.22	<b>1.13</b>
S. Union @ Broad	3	0.19 / 0.22	<b>0.71</b>
Monroe @ Inner Loop / Pitkin	7	0.34 / 0.22	0.26
Monroe @ Inner Loop / Howell	5	0.34 / 0.22	0.34
Monroe @ S Union	20	0.34 / 0.22	<b>1.12</b>
<b>Link Rate</b>			
Inner Loop – I-490 to E Main	30	2.72	2.48

**Pitkin Street corridor** – 12 accidents occurred over a 32-month period. There were 5 (42%) rear-end accidents, 3 (25%) right angle, 1 (8%) right turn, 1 (8%) overtaking, 1 (8%), pedestrian, 1 (8%) unknown accident. One or 8% of the reportable accidents involved a personal injury, while the remainder of the accidents involved property damage only.

**Union Street corridor** – 61 accidents occurred over a 39-month period. There were 21 (34%) right angle, 12 (20%) rear-end, 10 (16%) left turn, 4 (6%) backing up, 3 (5%) sideswipe, 3 (5%) fixed object, 3 (5%) right turn, 3 (5%) unknown, 1 driveway and 1 overtaking accident. Ten accidents (16%) of the 61 reportable accidents involved personal injuries; the remainder were property damage only.

In summary, the Inner Loop expressway does not have safety concerns as there is relatively little traffic, although the rate of severe (personal injury type) is a relatively high percentage of the overall accidents reported. The expressway accident rate is below the statewide average for similar interstate systems. There are however some isolated safety concern areas on the local system such as along the Union Street corridor (e.g. East Avenue and Broad Street intersections) with safety concerns attributable to sight distance restrictions. The other intersections are also exhibiting rates over average rates, but the patterns are consistent with high volume low speed urban intersections.

An accident analysis was performed in accordance with the Highway Design Manual Chapter 5 in 2008. The accident analysis including an accident summary (TE-213), collision diagrams (TE-56), and recommendations for improvements is in Appendix H.

### **2.3.1.9. Existing Police, Fire Protection and Ambulance Access -**

No emergency service facilities are located within the project limits however; emergency vehicles routinely use the Inner Loop expressway and adjacent roadway system.

### **2.3.1.10. Parking Regulations and Parking Related Conditions –**

Parking on Interstate highways is restricted by law within the project limits.

There are areas regulated by parking restrictions along the adjacent frontage roads including Pitkin Street and South Union Street. The area of South Union Street between Monroe Avenue and East Avenue experiences an extremely high demand for parking at all times of the day. This is attributed to several adjoining dead end streets and the predominately multi-family dwellings within this area. Parking within the area of East Avenue is also limited on Sundays due to the large congregation (3000+) of the Bethel Church.

### 2.3.1.11. Lighting –

There is street lighting along the Inner Loop expressway and adjacent city streets. The lighting systems are original to the Inner Loop installation and are in need of replacement. It is anticipated that street lighting will be replaced in conformance with the City of Rochester's street lighting requirements.

### 2.3.1.12. Ownership and Maintenance Jurisdiction –

The original construction of the Inner loop was built with Federal Highway Administration funding. The property acquisition for the construction was equally funded by the City of Rochester and the New York State Department of Transportation.

In summary, the Inner Loop Expressway and I-490 are owned and maintained by the NYSDOT; the frontage roads and other local streets are owned and maintained by the City of Rochester. The bridges crossing the Inner Loop are shared by the NYSDOT and City of Rochester; with NYSDOT being responsible for the superstructure and substructure, and the City is responsible for the pavement, sidewalks and curbs. The lighting along the Inner Loop is currently a mix of County and City lighting (in general, it is County lighting on the mainline and ramps, and City lighting on the frontage roads). It should also be noted that Monroe County Department of Transportation maintains and operates all the traffic signals, regardless of ownership.



*Deteriorated light poles are throughout the project corridor*

## 2.3.2. Multimodal

### 2.3.2.1. Pedestrians –

Overall, the Inner Loop configuration (depressed highway) presents a significant east west barrier to pedestrian mobility within the study area.

Pedestrian access across the Inner Loop is limited from South Clinton Avenue to East Main Street (one mile). Suitable options for crossing the Inner Loop exist at the four roadway bridge crossings at Monroe Avenue, Broad Street, East Avenue and East Main Street. A major gap exists from Monroe Avenue to Broad Street (1/3 mile or 1,700 feet). Pedestrians have been frequently observed illegally crossing within this mid-segment.

Also, pedestrians are prohibited from using the Inner Loop by state law, since it is a limited access highway.

Pedestrians are accommodated in the study area on the city streets, arterials, and the frontage roads.

### 2.3.2.2. Bicyclists –

The general configuration of the Inner Loop (depressed highway), the adjacent one-way frontage roads, and the limited east west connections, make bicycle mobility difficult within the study area.

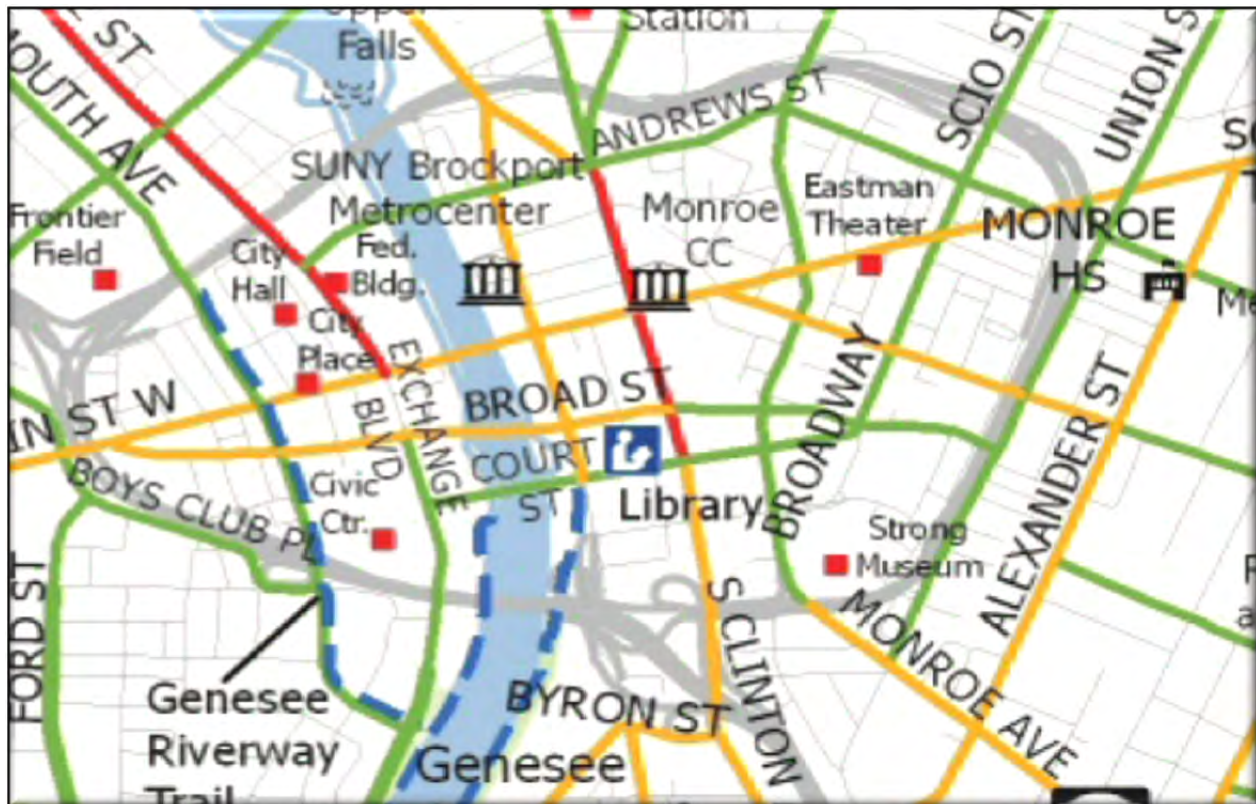


*Pedestrians frequently cross the Inner Loop due to the barriers created by the expressway*

Bicycles are strictly prohibited along the Inner Loop as a limited access highway by State Law, and therefore, there are no plans for a bicycle route within the Inner Loop expressway.

Also, there are no separate provisions for bicycles within the project limits. Bicycles are accommodated in the travel lane or on the shoulder area of adjacent streets.

The Genesee Transportation Council has recently published the 2009 Bike Map for the region. Major adjoining roads in the project area are classified as good or fair riding conditions. The map below shows Current bike ratings for the roadway network surrounding the project limits.



Source: Genesee Transportation Council 2009 Bike Map

**2.3.2.3. Transit –**

The Rochester Genesee Regional Transportation Authority (RGRTA) provides and operates transit services for the greater Monroe County area.

RGRTA's headquarters and bus garage are located along East Main Street east of the study area. Due to their proximity to the study area, a notable amount of bus traffic traverses the study roads on a daily basis; in addition there are various RTS routes that serve the immediate area.



RGRTA provides bus service to ten (10) City of Rochester High Schools. Each high school has on average 15 school routes that ultimately traverse the study area. Bus traffic serving the west and north side of the City traverse the study area as well.

#### **2.3.2.4. Airports, Railroad Stations, and Ports –**

There are no airports, railroad stations or port entrances within or in the vicinity of the project limits.

#### **2.3.2.5. Access to Recreation Areas (Parks, Trails, Waterways, State Lands) –**

There are no entrances to recreation areas within the immediate project limits. Wadsworth Park utilizes on-street parking along Broadway and Marshall Street for access to this public open space.

### **2.3.3. Infrastructure**

#### **2.3.3.1. Existing Highway Section –**

The Inner Loop expressway within the study limits is a four to six lane divided expressway with parallel two to three lane frontage roads (Pitkin Street and South Union Street) on each side. Most of the expressway within the project limits is depressed via retaining walls 15-20ft below the adjacent frontage roads. The frontage roads and the Inner Loop are connected with entrance and exit ramps located at service points along the system. The combination of the Inner Loop and frontage road system results in a facility that in some places has as many as twelve travel lanes and occupies a width of 180 feet to 350 feet (frontage road outside curb to frontage road outside curb).



The Inner Loop expressway has interchanges at Monroe Avenue/Chestnut Street, and University Avenue/East Main Street, via a series of slip ramps from the frontage roads, which also provide access to Broad Street and East Avenue.

#### **2.3.3.2. Geometric Design Elements Not Meeting Minimum Standards –**

##### **2.3.3.2.(1) Critical Design Elements –**

Based on the existing estimated 85<sup>th</sup> percentile speed of 50mph, the existing Inner Loop expressway has a number of non-standard highway features listed below.

- Shoulder Width – left side shoulders are non-existent and right side shoulders are limited at various locations (i.e., bridge crossings).
- Horizontal Curvature (1 curve) – curve at south end just east of Monroe Avenue.
- Superelevation Rate – not met at the horizontal curve identified above.

- Stopping Sight Distance (1 curve)
- Headlight Sight Distance (4 curves)

In the review of the adjacent frontage roads, the following non-standard highway features were found based on the existing estimated 85<sup>th</sup> percentile speed of 30mph,

- Headlight Sight Distance – Howell Street (1 curve)
- Horizontal Curvature – Howell Street (1 curve)

### 2.3.3.2. (2) Other Design Parameters -

The following non-conforming features were identified:

- Ramp Spacing – All of the Inner Loop access ramps have non-conforming ramp spacing. This inadequate spacing results in several weaving concerns throughout the corridor.
- Ramp Acceleration/Deceleration
- Retaining Walls Safety Railing- The original steel bridge railings along the top of the walls does not meet current standards.
- Fixed Objects – Several fixed objects (light poles, sign structures, etc.) are not properly protected or designed with breakaway features.

### 2.3.3.3. Pavement and Shoulder -

The Inner Loop mainline pavement section consists of concrete with asphalt overlays and was most recently overlaid in 2005-2006. The pavement condition of the Inner Loop was given a 6 rating (out of 10) by NYSDOT in 2010. This rating equates to “fair condition”. Longitudinal cracks along the pavements seams and some transverse cracks along the underlying concrete joints are prevalent throughout the corridor. There are a few patched areas or areas with local surface breakdown.



The Pitkin Street and Union Street frontage roads are in fair to poor condition. There is a significant amount of both longitudinal and transverse cracking. There is also a fair amount of patch work pavement in areas along the frontage roads.



**2.3.3.4. Drainage Systems -**

Drainage along the project corridor consists of a closed drainage system with drainage inlets along the medians and shoulders. The drainage system has various sizes and types of drainage conduit. The corridor contains curbing with the exception of the depressed Inner Loop mainline segments that utilizes concrete gutters adjacent to the retaining walls to convey surface flows to the drainage inlets.

The closed drainage system along the Inner Loop mainline drains to a storm sewer line that is in the center median of the Inner Loop. The storm sewer then discharges to the combined sewer system at both the north and south ends. The Union Street stormwater runoff generally flows north and continues along the Main Street corridor to the northeast. The Pitkin Street stormwater runoff drains into a storm sewer along Pitkin Street that outfall's into the combined sewer system as well. The Howell Street stormwater runoff flows toward Monroe Avenue and continues southeast along Monroe Avenue.

All of the existing stormwater drainage systems within the project limits connect to the combined sewer system before eventually discharging to the overflow tunnel system and then to a sewage treatment facility.

The existing drainage system is generally in fair working condition. There are areas however where the existing drainage structures are deteriorated due to wear and tear and therefore should be addressed, while other isolated areas on the pavement surface frequently pond during rain events due to imperfections in the pavement surface and/or inadequately positioned drainage structures.



### 2.3.3.5. Geotechnical –

A visual inspection of the depressed Inner Loop Corridor has identified areas of exposed rock near East Main Street. Assuming the project will not include the construction of new roadway bridges or similar structures, an in-depth geotechnical evaluation is not needed.

There are no special geotechnical concerns with the soils or rock slopes within the project area.

### 2.3.3.6. Structure –

There are eight bridges within close proximity to the project, with four (Monroe Avenue, Broad Street, Utility Bridge, and East Avenue) located within the main project limits. The structures are listed below in Exhibit 2.3.3.6 in order from southwest to northeast. Structures listed below that will be affected by the proposed project are shaded in red.

Exhibit - 2.3.3.6 Existing Structures			
BIN	Feature Carried/Crossed	Structure Type	Year Built
1093880	Ramp LE over I-490	Pre-Stressed Concrete	1974
1050139	Inner Loop over Ramp LB	Single-Span Steel Multi-Girder	1974
1077590	South Clinton Avenue over Inner Loop	Three-Span Steel Multi-Girder	1971 <sup>1</sup>
1021630	Monroe Avenue over Inner Loop	Single-Span Steel Multi-Girder	1957 <sup>2</sup>
1050149	Broad Street over Inner Loop	Two-Span Steel Multi-Girder	1965
1050150	Steam Pipe Bridge over Inner Loop	Single-Span Steel Two-Girder	1966
1035240	East Avenue over Inner Loop	Two-Span Steel Multi-Girder	1965
1050160	East Main Street over Inner Loop	Two-Span Steel Multi-Girder	1965

Note:

1. South Clinton Avenue over Inner Loop was rehabilitated in 2001.
2. Monroe Avenue bridge deck was replaced and abutments rehabilitated in 2000.

Also, between South Clinton Avenue and East Main Street, the Inner Loop is lined with concrete retaining walls in two areas. The first retaining wall system begins approximately 150 feet east of South Clinton Street Bridge and ends approximately 650 feet northeast of Monroe Avenue Bridge. The second retaining wall system begins approximately 475 feet south of Broad Street Bridge and ends approximately 650 feet north of East Avenue Bridge.

These walls line both sides of the Inner Loop and they accommodate the grade difference between the adjacent frontage road level and the lower alignment of the Inner Loop. The bridge abutments at Monroe Avenue, Broad Street, the Steam Pipe Bridge, and East Avenue are supported on top of the retaining walls. The total retaining wall surface area is approximately 70,000 square feet.

The first section of retaining walls takes the Inner Loop under Monroe Avenue (built in 1957), and the second section of retaining walls that takes the Inner Loop under Broad Street and East Avenue (constructed in 1963). Considering their age, the majority of the existing walls are in relatively good structural condition. There are isolated areas of minor deterioration, mostly concentrated below the existing bridges due to bridge joint leakage and deicing salt. The original steel bridge railings along the top of the walls do not meet current standards.

**2.3.3.6. (1) Description:****Ramp LE over I-490**

- (a) BIN - 10938880
- (b) Feature carried and crossed – Ramp LE over I-490
- (c) Type of bridge, number and length of spans, etc. – Pre-Stressed Continuous Concrete, 3 Spans, 87 ft., 117 ft., and 87 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – Left Lane is 12 ft., Right Lane is 14 ft.
- (e) Sidewalks – 8 ft. wide on Right Side
- (f) Utilities carried – None

**Inner Loop over Ramp LB**

- (a) BIN - 1050139
- (b) Feature carried and crossed – Inner Loop over Ramp LB
- (c) Type of bridge, number and length of spans, etc. – Steel Multi-Girder, 1 Span, 86 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – 12 ft. Lanes, 2 ft. Shoulders, 15 ft. Curbed Median
- (e) Sidewalks – 9.5 ft. wide on both sides
- (f) Utilities carried – Electric and Telephone

**South Clinton Avenue over Inner Loop**

- (a) BIN - 1077590
- (b) Feature carried and crossed – South Clinton Avenue over Inner Loop
- (c) Type of bridge, number and length of spans, etc. – Steel Multi-Girder, 3 Span, 121 ft., 162 ft., and 120 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – 12 ft. Lanes, 2 ft. Shoulders
- (e) Sidewalks – 9.8 ft. wide on right sides
- (f) Utilities carried – Electric

**Monroe Avenue over Inner Loop**

- (a) BIN - 102630
- (b) Feature carried and crossed – Monroe Avenue over Inner Loop
- (c) Type of bridge, number and length of spans, etc. – Steel Multi-Girder, 1 Span, 101 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – 12 ft. Lanes, 2 ft. Shoulders
- (e) Sidewalks – 9.5 ft. wide on both sides
- (f) Utilities carried – Electric, Gas, and Telephone

**Broad Street over Inner Loop**

- (a) BIN – 1050149
- (b) Feature carried and crossed – Broad Street over Inner Loop
- (c) Type of bridge, number and length of spans, etc. – Steel Multi-Girder, 2 Span, 53 ft. and 53 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – 12 ft. Lanes, 2 ft. Shoulders, 4 ft. Curbed Median
- (e) Sidewalks – 7.8 ft. wide on both sides
- (f) Utilities carried – Electric and Telephone

**Steam Pipe Bridge over Inner Loop**

- (a) BIN - 1050150
- (b) Feature carried and crossed – Steam Pipe over Inner Loop

- (c) Type of bridge, number and length of spans, etc. – Steel Two-Girder, 1 Span, 106 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – none
- (e) Sidewalks – none
- (f) Utilities carried – Steam, Electric, and Gas

#### **East Avenue over Inner Loop**

- (a) BIN - 1035240
- (b) Feature carried and crossed – East Avenue over Inner Loop
- (c) Type of bridge, number and length of spans, etc. – Steel Multi-Girder, 2 Span, 53 ft. and 53 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – 10 ft. Lanes, 4 ft. Shoulders
- (e) Sidewalks – 8.0 ft. wide on both sides
- (f) Utilities carried – Electric, Telephone, and Unknown Utility

#### **East Main Street over Inner Loop**

- (a) BIN - 1050160
- (b) Feature carried and crossed – East Main Street over Inner Loop
- (c) Type of bridge, number and length of spans, etc. – Steel Multi-Girder, 2 Span, 45 ft. and 42 ft.
- (d) Width of travel lanes, parking lanes, and shoulders – 12 ft. Lanes, 2 ft. Shoulders
- (e) Sidewalks – 8.0 ft. wide on both sides
- (f) Utilities carried – Electric and Telephone

#### **2.3.3.6. (2) Clearances (Horizontal/Vertical) –**

The clearances are listed below in Exhibit 2.3.3.6(2).

<b>Exhibit - 2.3.3.6.(2) Horizontal and Vertical Clearances</b>			
BIN	Feature Carried/Crossed	Horizontal	Vertical
1093880	Ramp LE over I-490	30'-6"	14'-5"
1050139	Inner Loop over Ramp LB	48'-0"	14'-4"
1077590	South Clinton Avenue over Inner Loop	54'-2"	14'-1"
1021630	Monroe Avenue over Inner Loop	54'-0"	14'-3"
1050149	Broad Street over Inner Loop	36'-0"	14'-5"
1050150	Steam Pipe Bridge over Inner Loop	N/A	14'-2"
1035240	East Avenue over Inner Loop	48'-0"	14'-3"
1050160	East Main Street over Inner Loop	76'-0"	14'-9"

#### **2.3.3.6. (3) History & Deficiencies –**

The history and deficiencies are listed below in Exhibit 2.3.3.6(3).

<b>Exhibit - 2.3.3.6.(3) History &amp; Deficiencies</b>				
BIN	Feature Carried/Crossed	Year Built	Year Rehab.	Structural Flags
1093880	Ramp LE over I-490	1974	None	None
1050139	Inner Loop over Ramp LB	1974	2013	None
1077590	South Clinton Avenue over Inner Loop	1971	2001	None

Exhibit - 2.3.3.6.(3) History & Deficiencies				
BIN	Feature Carried/Crossed	Year Built	Year Rehab.	Structural Flags
1021630	Monroe Avenue over Inner Loop	1957	2000	Safety
1050149	Broad Street over Inner Loop	1965	None	Red and Safety
1050150	Steam Pipe Bridge over Inner Loop	1966	None	None
1035240	East Avenue over Inner Loop	1965	None	Red and Safety
1050160	East Main Street over Inner Loop	1965	None	Safety

#### 2.3.3.6.(4) Inspection -

The inspections for the bridges are listed below in Exhibit 2.3.3.6(4).

Exhibit - 2.3.3.6.(4) Inspection					
BIN	Feature Carried/Crossed	Last Inspection Date	Federal Sufficiency Rating	NYSDOT Condition Rating	NYSDOT General Rec.
1093880	Ramp LE over I-490	10/28/2011 Biennial	75.4	5.339	6
1050139	Inner Loop over Ramp LB	8/21/2012 Biennial	79.5	5.047	5
1077590	South Clinton Avenue over Inner Loop	8/26/2011 Biennial	73.4	5.986	6
1021630	Monroe Avenue over Inner Loop	6/26/2012 Biennial	77.3	5.983	6
1050149	Broad Street over Inner Loop	9/6/2012 Interim	41.5	4.264	4
1050150	Steam Pipe Bridge over Inner Loop	N/A	N/A	N/A	N/A
1035240	East Avenue over Inner Loop	11/28/2011 Biennial	65.1	4.792	5
1050160	East Main Street over Inner Loop	6/26/2012 Biennial	65.2	4.361	4

#### 2.3.3.6. (5) Restrictions –

The restrictions for the bridges are listed below in Exhibit 2.3.3.6(5).

Exhibit - 2.3.3.6.(5) Restrictions				
BIN	Feature Carried/Crossed	Closed	Posted Weight Limit	Vertical
1093880	Ramp LE over I-490	No	None	Not Posted
1050139	Inner Loop over Ramp LB	No	None	Not Posted
1077590	South Clinton Avenue over Inner Loop	No	None	Not Posted
1021630	Monroe Avenue over Inner Loop	No	None	Not Posted

Exhibit - 2.3.3.6.(5) Restrictions				
BIN	Feature Carried/Crossed	Closed	Posted Weight Limit	Vertical
1050149	Broad Street over Inner Loop	No	None	Not Posted
1050150	Steam Pipe Bridge over Inner Loop	Utility	None	Not Posted
1035240	East Avenue over Inner Loop	No	R-Permit	Not Posted
1050160	East Main Street over Inner Loop	No	None	Not Posted

#### 2.3.3.6. (6) Future Conditions –

In general, all of the bridges in the project area will continue to deteriorate. If any of the bridges are deemed unsafe for normal traffic, the bridges could possibly be posted or posted with a further reduced loading, and eventually closed to all traffic.

#### 2.3.3.6. (7) Waterway –

A Coast Guard Checklist is not required.

#### 2.3.3.7. Hydraulics of Bridges and Culverts –

There are no bridges or culverts over waterways within the project limits.

#### 2.3.3.8. Guide Railing, Median Barriers and Impact Attenuators –

There are several different types of railing and barriers within the project limits that protect the traveling public from fixed roadside objects, non-traversable slopes, and crossing over to opposing lanes of traffic on the Inner Loop.

Along the median for the Inner Loop, there is a mix of Heavy Post W-Beam Median Barrier, Heavy Post W-Beam Guide Railing and Box Beam Guide Railing from South Clinton Street to East Main Street. In general, the existing condition of the barrier and railing is in good condition.

Along the existing retaining walls and bridges, there is bridge railing. The bridge railing for the Monroe Avenue Bridge is in good condition and meets current standards. The bridge railing along the top of both retaining wall systems and along the bridges at Broad Street, East Avenue, and East Main Street are the original steel bridge railings that were installed in the 1950's and 60's when the Inner Loop was originally constructed. This original steel railing is in fair to poor condition and does not meet current standards, including the lack of proper end treatments.

#### 2.3.3.9. Utilities –

A majority of the utilities within the project area is underground. There are a few areas where some of the utilities are above ground. In general, the conditions of the existing private utility facilities are unknown. The condition of the public utility facilities are generally in good condition.

The underground and overhead electric and the underground gas systems are owned by Rochester Gas and Electric.

The underground steam system is owned by the Rochester District Heating Cooperative.



The underground and overhead telephone systems are owned by Frontier Telephone.

The underground and overhead cable television systems are owned by Time Warner Communications.

The water distribution and fire protection system are owned by the City of Rochester.

The street lighting system is owned by the City of Rochester.

The existing traffic signal and inner connect system is owned by Monroe County Department of Transportation with one exception, the signal at Monroe / Chestnut intersections is owned by NYSDOT.

### **2.3.3.10. Railroad Facilities –**

There are no railroads within the project limits and no at-grade crossings within 0.5 miles that could impact traffic conditions.

### **2.3.4. Potential Enhancement Opportunities**

This section focuses on the existing areas to identify potential enhancement opportunities related to the project and to help avoid and minimize impacts. Chapter 4 focuses on the impacts, enhancements, and mitigation.

#### **2.3.4.1. Landscape -**

The existing Inner Loop corridor has limited areas of landscaping. A majority of the landscaping is along the surface streets on either side of the Inner Loop. Where there is landscaping, it is generally gentle slopes with a grass surface, tree lawn with some mature trees.

##### **2.3.4.1. (1) Terrain -**

The terrain along the Inner Loop is classified as flat terrain.

##### **2.3.4.1. (2) Unusual Weather Conditions-**

There are no unusual weather conditions within the project area.

##### **2.3.4.1. (3) Visual Resources -**

The portion of Inner Loop being studied splits the eastern edge of downtown from the residential east side of the city. Downtown Rochester is along the north and west sides and the residential homes are along the south and east sides of the Inner Loop in this area. A visual Impact Assessment has been completed and describes existing visual resources within the project limits. See Appendix I for further information.

#### **2.3.4.2. Opportunities for Environmental Enhancements –**

There are a few areas that will have practical opportunities for possible environmental enhancements in the project limits. These enhancements could include but not be limited to a mix of pocket parks, infilling the existing tree lawns with new street trees and planting rain gardens in appropriate places.

### **2.3.5. Miscellaneous**

There are no miscellaneous topics of discussions.



## CHAPTER 3 – ALTERNATIVES

This chapter discusses the alternatives considered and examines the engineering aspects for all feasible alternatives to address project objectives listed in Chapter 1 of this report.

This project concentrates on the 1-mile long segment of the Inner Loop from East Main Street at the north end of the corridor to South Clinton Avenue at the south end. Two (2) options were considered for this segment. The first option would be to retain the expressway and continue maintaining the facility for the foreseeable future. The second Option (Alternative 1) that was considered was to remove the depressed expressway altogether and replace it with an urban arterial city street that combines the user demand from both Union and Pitkin Streets.

### 3.1. Alternatives Considered and Eliminated from Further Study

The following alternatives were considered and are recommended for elimination from further study based on a review of the project needs and objectives.

#### Null Alternative

Under this alternative, the basic infrastructure would be retained and maintenance and rehabilitation efforts would be performed by the State, along with City and County forces to extend the service life of the existing pavement, structures and adjoining service roads and intersections. The original facility was built in 1965 and eventually will need significant investment.

Overall the existing expressway system and frontage road layout will require on-going and long term investment to maintain:

- 1) The excessive underutilized expressway and frontage road system (four/six lane expressway plus two/three lane frontage roads)
- 2) Retaining walls
- 3) Bridges at East Avenue, Broad Street and Monroe Avenue.

This option also would not address non-standard or non-conforming design features.

Maintaining the existing transportation network as is also does not consider the broader community needs that include providing facilities for non-motorized users; breaking down superblocks that inhibit accessibility to neighborhoods and nearby businesses and civic places; does not allow for optimal use of the available real estate within the Center City; and does not consider the importance of reconnecting the neighborhoods and Center City to ensure long term sustainability. For the aforementioned reasons, this alternative has been eliminated from further consideration.

### 3.2. Feasible Build Alternatives

#### 3.2.1. Description of Feasible Alternatives

##### Alternative 1 - Removal of the Inner Loop (Monroe Avenue to Richmond Street)

This alternative considers the complete removal of the Inner Loop and filling in the vacated depressed corridor between Monroe Avenue and Richmond Street such that it matches existing adjoining grades on either side of the expressway. As part of the Inner Loop removal effort, this alternative includes the reconstruction of Union Street, as a two-way facility from Monroe Avenue to East Main Street, on its existing alignment along the east side of the expressway corridor as an urban arterial city street. Pitkin Street from Broad Street to Charlotte Street would be reconstructed as a one-way street with on-street parking. The section of Pitkin Street from Chestnut Street to Board Street would be eliminated.

The existing Inner Loop expressway at the northern project limit will terminate via exit/entrance ramps that connect to the newly reconstructed Union Street near the Richmond Street intersection. At the south end, the existing I-490 ramps will continue to traverse under Clinton Avenue, but will maintain the adjoining existing topography to create an at-grade intersection with Monroe Avenue / Chestnut intersection. The newly constructed road (Howell Street) will then traverse at-grade from the Monroe / Chestnut intersection to South Union Street, thereby creating a 4-way intersection at Lafayette Park.

With the elimination of the depressed expressway corridor, significant quantities of existing reinforced concrete retaining walls will no longer be required and three (3) existing bridges at Monroe Avenue, Broad Street and East Avenue will be removed and replaced with at-grade roadways that will connect directly to the newly reconstructed Union Street. Further addressing the need to reestablish the city grid system and reconnect neighborhoods and business districts, Charlotte Street will be reconnected as it existed prior to the Inner Loop construction.

New and/or upgraded signalization will occur at the following intersections within the project limits:

- East Main Street / North Union Street
- University Avenue / North Union Street
- East Avenue / South Union Street
- Broad Street / South Union Street
- Howell Street (Former Inner Loop) / South Union Street
- Monroe Avenue / Howell Street (Former Inner Loop)
- Monroe Avenue / South Union Street

On-street parking and streetscape amenities including street lighting enhancements will be included. Pedestrian accommodations will be provided within the project corridor with all features being designed in conformance with ADA standards. The project will incorporate a two-way cycle track for bicyclists along Union / Howell from Monroe Avenue to University Avenue.

The vacant land masses that will be created by the removal of the expressway, retaining walls and bridges along the west side of Union Street will then become available for future residential, business, commercial and/or institutional development.

See Appendix A for plans, profiles and typical sections for Alternative 1.

### **3.2.2 Preferred Alternative**

Alternative 1 is the preferred option, as continuing to maintain the existing facility as is will not meet the project goals and objectives. This alternative will meet the overall project goals and objectives by eliminating the expressway system and creating a community-scale urban arterial city street that can accommodate the projected traffic, allow for economic re-development and enhance community cohesion.

Implementation of Alternative 1 will eliminate the need to maintain, rehabilitate or replace:

- Three (3) multi-span bridges;
- 70,000 square feet of retaining walls;
- Minimum of four (4) lane miles of the Inner Loop expressway system;
- Three (3) miles of highway shoulders, along with guide rail and other highway features.

This recommended Alternative 1, intended to transform the limited access expressway to an urban arterial city street will therefore reduce the life-cycle costs to FHWA, NYSDOT, Monroe County and the City of Rochester, which all maintain or fund repairs and improvements to this transportation facility.

**3.2.3. Design Criteria for Feasible Alternative(s)**

**3.2.3.1. Design Standards -**

**3.2.3.2. Critical Design Elements -**

Design standards for the various elements of the project are shown in the following Critical Design Elements tables.

Critical Design Elements for Howell Street, Union Street, Monroe Avenue, Chestnut Street, Broad Street, East Avenue, University Avenue and East Main Street				
PIN:		4940.T7	NHS (Y/N):	No
Route No. & Name:		Howell St., Union St., Chestnut St., Monroe Ave., Broad St., East Ave., University Ave., E Main St.	Functional Class:	Urban Minor Arterial
Project Type:		Reconstruction	Design Class:	Urban Arterial
% Trucks:		2%	Terrain:	Level
ADT:		Varies	Truck Access/Qualifying Hwy.	Neither
Element		Standard	Proposed Condition	
1	Design Speed	30 mph HDM Section 2.7.2.2 A	30 mph	
2	Lane Width	Travel Lane: 11 ft. (minimum) Shared Use Lane: 12 ft. (minimum); 14 ft. (desirable) Turning Lane: 11 ft. (minimum); 12 ft. (desirable) Cont. Lt. Turn Median: 11 ft. (min); 16 ft. (des.) Parking Lane: 8 ft. (minimum); 12 ft. (desirable) HDM Sections 2.7.2.2 B, Exhibit 2-4 Bike Lane: 5 ft. HDM Section 17.4.7, Exhibit 17-3, 17-4	11 ft. 12 ft. 11 ft. 11 ft. 8 ft. 5 ft.	
3	Shoulder Width	Median: 0 ft. (minimum); 2 ft. (desirable) HDM Sections 2.7.2.2 C, Exhibit 2-4	0 ft.	
4	Bridge Roadway Width	Full width of planned roadway. If on the NHS, HDM Chapter 2 roadway widths shall be met. Bridge Manual, Section 2.3	NA	
5	Maximum Grade	8% HDM Section 2.7.2.2 E, Exhibit 2-4	2.0%	
6	Horizontal Curvature	250 ft. @ e=4.0% HDM Section 2.7.2.2 F	250 ft. @ e= 4.0%	
7	Superelevation Rate	4.0% Maximum HDM Section 2.7.2.2 G	4.0% (max.)	
8	Stopping Sight Distance	200 ft. (Minimum) (Crest) (SSD) HDM Section 2.7.2.2 H, Exhibit 2-4 200 ft. (Minimum) (Sag) (HSD) HDM Section 2.7.2.2 H, Appendix 5B	200 ft. (min.)	
9	Horizontal Clearance	(From Face of Curb) 0 ft. w/ barrier; 1.5 ft. w/o barrier, 3 ft. at intersections HDM Section 2.7.2.2 I	0 ft. w/ barrier; 1.5 ft. w/o barrier, 3 ft. at intersections	
10	Vertical Clearance	14'-0" (minimum); 14'-6" (desirable) Bridge Manual, Section 2.4	NA	
11	Pavement Cross Slope	1.5% Min. to 2% Max. HDM Section 2.7.2.2 K	2.0%	
12	Rollover	4.0% between lanes; 8% at edge of traveled way HDM Section 2.7.2.2 L	4.0%	

<b>Critical Design Elements for Howell Street, Union Street, Monroe Avenue, Chestnut Street, Broad Street, East Avenue, University Avenue and East Main Street</b>			
PIN:	4940.T7	NHS (Y/N):	No
Route No. & Name:	Howell St., Union St., Chestnut St., Monroe Ave., Broad St., East Ave., University Ave., E Main St.	Functional Class:	Urban Minor Arterial
Project Type:	Reconstruction	Design Class:	Urban Arterial
% Trucks:	2%	Terrain:	Level
ADT:	Varies	Truck Access/Qualifying Hwy.	Neither
Element	Standard		Proposed Condition
13	Structural Capacity	New/Replacement: AASHTO HL-93 live load and the NYSDOT Design Permit Vehicle Rehabilitation: HS 20 Live Load Bridge Manual, Section 2.6	NA
14	Level of Service	NA	NA
15	Control of Access	NA	NA
16	Pedestrian Accommodation	5' Sidewalk Complies with HDM Chapter 18 and ADAAG	5 ft. (min.)
17	Median Width	NA	NA

<b>Critical Design Elements for Urban Local Streets Broadway, Savannah St, Lafayette Park, Gardiner Park, Charlotte St, Richmond St, Pitkin St.</b>			
PIN:	4940.T7	NHS (Y/N):	No
Route No. & Name:	Various Local Streets	Functional Class:	Urban Local Road
Project Type:	Reconstruction	Design Class:	Urban Local Road
% Trucks:	Varies	Terrain:	Level
ADT:	Varies	Truck Access/Qualifying Hwy.	Neither
Element	Standard		Proposed Condition
1	Design Speed	30 mph HDM Section 2.7.4.2 A	30 mph
2	Lane Width	Travel Lane: 10 ft. (minimum); 11 ft. (desirable) Shared Use Lane: 12 ft. (minimum); 14 ft. (desirable) Parking Lane: 7 ft. (minimum); 11 ft. (desirable) HDM Sections 2.7.4.2 B, Exhibit 2-8  Bike Lane: 5 ft. HDM Section 17.4.7, Exhibit 17-3, 17-4	10 ft. 12 ft. 8 ft.  5 ft.
3	Shoulder Width	Median: 0 ft. (minimum); 2 ft. (desirable) Right: 6 ft. (minimum); 10 ft. (desirable) HDM Sections 2.7.4.2 B, Exhibit 2-8	0 ft. 6 ft.
4	Bridge Roadway Width	Full approach roadway width, but never less than Table R of Appendix 2A or greater than Table N of Appendix 2A.; Bridge Manual, Section 2.3	NA
5	Maximum Grade	8% (Commercial/Industrial); 15% (Residential) HDM Section 2.7.4.2 E, Exhibit 2-8	2.0%
6	Horizontal Curvature	250 ft. @ e=4.0% HDM Section 2.7.4.2 F, Exhibit 2-8	250 ft.
7	Superelevation Rate	4.0% Maximum HDM Section 2.7.4.2 G	NC
8	Stopping Sight Distance	200 ft. (Minimum) (Crest) (SSD) HDM Section 2.7.4.2 H, Exhibit 2-8 200 ft. (Minimum) (Sag) (HSD) HDM Section 2.7.4.2 H, Appendix 5B	208 ft.

Critical Design Elements for Urban Local Streets Broadway, Savannah St, Lafayette Park, Gardiner Park, Charlotte St, Richmond St, Pitkin St.			
PIN:	4940.T7	NHS (Y/N):	No
Route No. & Name:	Various Local Streets	Functional Class:	Urban Local Road
Project Type:	Reconstruction	Design Class:	Urban Local Road
% Trucks:	Varies	Terrain:	Level
ADT:	Varies	Truck Access/Qualifying Hwy.	Neither
Element	Standard	Proposed Condition	
9	Horizontal Clearance (From Face of Curb) 0 ft. w/ barrier; 1.5 ft. w/o barrier, 3 ft. at intersections HDM Section 2.7.2.2 I	0 ft. w/ barrier; 1.5 ft. w/o barrier, 3 ft. at intersections	
10	Vertical Clearance 14'-0" (minimum); 14'-6" (desirable) Bridge Manual, Section 2.4	NA	
11	Pavement Cross Slope 1.5% Min. to 2% Max. HDM Section 2.7.4.2 K	2.0%	
12	Rollover 4.0% between lanes; 8% at edge of traveled way HDM Section 2.7.4.2 L	4.0%	
13	Structural Capacity New/Replacement: AASHTO HL-93 live load and the NYSDOT Design Permit Vehicle Rehabilitation: HS 20 Live Load Bridge Manual, Section 2.6	NA	
14	Level of Service	NA	
15	Control of Access	NA	
16	Pedestrian Accommodation 5' Sidewalk Complies with HDM Chapter 18 and ADAAG	5 ft. (min.)	
17	Median Width	NA	

Critical Design Elements for Inner Loop and I-490 Ramps			
PIN:	4940.T7	NHS (Y/N):	Yes
Route No. & Name:	Inner Loop Ramps, I-490 Ramps	Functional Class:	Urban Principal Arterial – Interstate / Freeway/Expressway
Project Type:	Reconstruction	Design Class:	Ramps
% Trucks:	2%	Terrain:	Level
ADT:	Varies	Truck Access/Qualifying Hwy.	Both
Element	Standard	Proposed Condition	
1	Design Speed 30 mph (minimum) Semi-Direct Connection Ramps HDM Section 2.7.5.2 A	30 mph	
2	Lane Width Travel Lane: 15 ft. (minimum) (R=500 ft.) Travel Lane: 14 ft. (minimum) (R>1000 ft.) HDM Sections 2.7.5.2 B, Exhibit 2-9	15 ft. 15 ft.	
3	Shoulder Width Left Side: 3 ft. (minimum) Right Side: 6 ft. (minimum) HDM Sections 2.7.5.2 C, Exhibit 2-10	3 ft. 6 ft.	
4	Bridge Roadway Width The lane and shoulder widths are to be carried across all ramp structures.	NA	
5	Maximum Grade 7% HDM Section 2.7.5.2 E, Exhibit 2-10	4.25%	
6	Horizontal Curvature 231 ft. @ e=6.0% HDM Section 2.7.5.2 F	150'	

Critical Design Elements for Inner Loop and I-490 Ramps				
PIN:		4940.T7	NHS (Y/N):	Yes
Route No. & Name:		Inner Loop Ramps, I-490 Ramps	Functional Class:	Urban Principal Arterial – Interstate / Freeway/Expressway
Project Type:		Reconstruction	Design Class:	Ramps
% Trucks:		2%	Terrain:	Level
ADT:		Varies	Truck Access/Qualifying Hwy.	Both
Element		Standard	Proposed Condition	
7	Superelevation Rate	6.0% Maximum HDM Section 2.7.5.2 G	4.0%	
8	Stopping Sight Distance	200 ft. (Minimum) (Crest) (SSD) HDM Section 2.7.5.2 H, Exhibit 2-10 200 ft. (Minimum) (Sag) (HSD) HDM Section 2.7.5.2 H, Appendix 5B	528' (Min) 206' (Min)	
9	Horizontal Clearance	Right: Greater of Shoulder Width or 6 ft.; Left: 3 ft.; when ramps pass under structures, there should be an additional 4 ft. clearance beyond outside of shoulders to bridge piers or abutments HDM Section 2.7.5.2 I	4 ft. beyond curb	
10	Vertical Clearance	14'-0" (minimum); 14'-6" (desirable) Bridge Manual, Section 2.4	14'-4"	
11	Pavement Cross Slope	1.5% Min. to 2% Max. HDM Section 2.7.5.2 K	2.0%	
12	Rollover	4.0% between lanes; 8% at edge of traveled way HDM Section 2.7.5.2 L	4.0%	
13	Structural Capacity	New/Replacement: AASHTO HL-93 live load and the NYSDOT Design Permit Vehicle Rehabilitation: HS 20 Live Load Bridge Manual, Section 2.6	NA	
14	Level of Service	NA	NA	
15	Control of Access	Fully Controlled, Control should extend beyond ramp terminal at least 100 ft. in Urban areas HDM Section 2.7.5.2 O	Fully Controlled	
16	Pedestrian Accommodation	5' Sidewalk at Ramp Terminals Complies with HDM Chapter 18 and ADAAG	5 ft. (min.)	
17	Median Width	NA	NA	

**3.2.3.3. Other Design Parameters -**

Exhibit 3.2.3.3 a Other Design Parameters			
Highway or Feature			
Element		Criteria	Proposed Condition
1	Level of Service (for non – interstate projects)	D	C
2	Drainage Design Storm	10-year storm event	10-year storm event
3	Street Lighting	Average maintained – 0.8fc Uniformity – 4:1 Avg. / Min.	



### **3.3. Engineering Considerations**

#### **3.3.1. Operations (Traffic and Safety) & Maintenance**

##### **3.3.1.1. Functional Classification and National Highway System -**

By removing the Inner Loop, Alternative 1 will result in the elimination of the Principal Arterial Expressway on the National Highway System. Union Street and Howell Street will retain their functional classification of a Minor Urban Arterial.

##### **3.3.1.2. Control of Access -**

As the new facility will serve as an urban arterial with adjoining multiple land uses that will require driveway access, right-of-way for the most part will be with access. The I-490 ramps west of Monroe Avenue will retain its right-of-way without access status. In addition the new Inner Loop ramps near the intersection of Richmond Street will also have a short segment of Right-of-Way along Union Street without access. Control of Access will be finalized as part of the land transfer between the City of Rochester and NYSDOT.

##### **3.3.1.3. Traffic Control Devices -**

###### **3.3.1.3. (1) Traffic Signals –**

Traffic signals are proposed at the following intersections:

- Inner Loop @ Monroe Avenue/Chestnut Street
- South Union Street @ Broad Street
- South Union Street @ East Avenue
- South Union Street @ Howell Street

Existing Traffic Signal Modifications are proposed at the following intersections:

- South Union Street @ Monroe Avenue
- North Union Street @ University Avenue
- North Union Street @ East Main Street

All other intersections within the study limits will remain as is.

###### **3.3.1.3. (2) Signs -**

Existing signs will be evaluated and replaced as necessary, and new signs will be added where required.

##### **3.3.1.4. Intelligent Transportation Systems (ITS) –**

Intelligent Transportation System (ITS) improvements will include the installation of underground conduit in order to accommodate future hard-wire connections between coordinated traffic signals and the Monroe County Regional Traffic Operations Center (RTOC). In addition two traffic cameras will be included in the proposed alternative as discussed in Section 2.3.1.4. These locations are S. Union Street @ Broad Street or S. Union Street @ East Ave. and Monroe Ave. / Chestnut @ Howell Street

##### **3.3.1.5. Speeds and Delay -**

###### **3.3.1.5. (1) Proposed Speed Limit –**

The posted speed limit for all City Streets will be 30 mph. The ramp speed limits will retain the posted speed limit of the Inner Loop (45 mph).

### 3.3.1.5. (2) Travel Time Estimates –

While travel speeds may be lower than on the previous expressway, overall traffic operations will operate at acceptable levels on the arterial network and accessibility for pedestrian and bicycle traffic will be notably improved. Levels of operations at each of the corridor intersection are projected to be LOS C or better, hence no travel time estimates are required.

### 3.3.1.6. Traffic Volumes –

The projected traffic volumes are not anticipated to change or increase as a direct result of the preferred alternative. Instead, Inner Loop traffic will be rerouted to the new urban arterial city street. Minor redistribution of traffic along the new street grid system will result with the change of ramp locations and conversion of Union Street to two-way traffic from Monroe Avenue to East Main Street. Alternative 1 uses a higher growth rate (0.75% per year) to forecast future traffic. The higher growth rate accommodates the potential traffic from development of vacated land with removal of the Inner Loop. Refer to Appendix G for traffic flow diagrams.

Exhibit 3.3.1.6 a Traffic Volume Summary						
Location	Null			Alternative 1		
	ETC + 20 (2035)			ETC +20 (2035)		
	ADT	DHV	DDHV	ADT	DHV	DDHV
<b>Inner Loop Expressway</b>						
North of East Main Street	11,935	800	540	-	-	-
North of Monroe Avenue	7,920	680	425	-	-	-
<b>Union Street</b>						
South of University Avenue	6,350	635	635	5,600	608	485
North of Howell Street	4,900	490	490	14,000	1,590	768
<b>Pitkin Street</b>						
South of East Main Street	2,300	235	235	470	50	50
North of Howell Street	2,700	270	270	-	-	-

### 3.3.1.7. Level of Service and Mobility –

#### 3.3.1.7 (1) At Project Completion & Design Year –

Development of the intersection geometric and traffic control treatments was an iterative process. Capacity analysis was first used to establish minimum requirements to meet capacity design standards. Various options were identified for each intersection through agency and stakeholder involvement. Each major category of options assessed and evaluated is detailed in a memo titled “Inner Loop East – Intersection Alternatives – Capacity Analysis in Appendix G. This memo breaks down various alternatives at each location including traditional T-intersections, 4-way intersections, off-set intersections, roundabouts, stop sign control, and traffic signal control options. Each of these options was presented at the public meeting, reviewed by various neighborhood stakeholders, and each of the agencies involved in the project. The resulting Alternative 1 considers not just capacity needs, but also addressed and incorporates pedestrian crossing amenities, bicycle intersection accommodations, and cycle track treatments. Exhibit 3.3.1.7a shows the capacity analysis results at each of the corridor intersections.

Alternative 1 results in intersection LOS of C or better in ETC+20 (2035) for all the intersections within the project limits. The Union Street @ East Avenue intersection has two alternatives shown below. This segment of roadway has recently undergone a road diet changing the original 4-lane section into a 3-lane section (one travel lane in each direction with a center median / turn lane) in order to accommodate on-street parking. The 3-lane section while still operating at an overall LOS D will result in one LOS F movement. The intersection was reevaluated utilizing the original 4-lane configuration and resulted in

overall LOS C. The City of Rochester will monitor the intersection, and if required in the future, reestablish the 4-lane section to accommodate traffic needs.

Exhibit 3.3.1.7 a Level of Service Table (Alternative 1)											
Intersection	LANE GROUP	AM Peak Hour					PM Peak Hour				
		V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)	V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)
Inner Loop @ Chestnut, Monroe, Howell (Signalized)	EB-L (1)	0.59	25.7	C	114	135	0.43	27.3	C	41	77
	EB-TR (1)	0.82	39.5	D	264	397	0.71	40.0	D	179	385
	WB-L (1)	0.09	6.9	A	3	3	0.09	11.0	B	5	7
	WB-TR (2)	0.49	14.0	B	65	54	0.85	30.8	C	188	267
	NB-L (1)	0.47	18.2	B	39	74	0.89	54.9	D	109	289
	NB-TR (1)	0.57	20.4	C	103	346	0.41	14.8	B	112	139
	SB-L (1)	0.23	35.2	D	28	73	0.10	26.6	C	15	39
	SB-T (1)	0.52	37.6	D	141	287	0.96	64.7	E	365	585
	SB-R (1)	0.19	0.3	A	0	0	0.85	6.6	A	0	0
Intersection	-	23.4	C	-	-	-	28.1	C	-	-	
Howell Street @ South Union Street (Signalized)	EB-LTR (1)	0.56	15.6	B	209	323	0.70	20.9	C	248	407
	WB-LTR (1)	0.02	12.5	B	3	16	0.02	16.0	B	4	18
	NB-LTR (1)	0.82	24.3	C	102	148	0.53	21.6	C	121	179
	SB-LTR (1)	0.65	7.4	A	75	143	0.90	19.7	B	91	117
	Intersection	-	16.1	B	-	-	-	20.5	C	-	-
S Union Street @ Monroe Avenue (Signalized)	EB-L (1)	0.02	14.0	B	1	3	0.02	10.5	B	1	2
	EB-T (1)	0.43	13.9	B	85	310	0.53	51.1	D	206	231
	WB-TR (1)	0.62	14.5	B	233	439	0.60	11.4	B	211	412
	NB-L (1)	0.29	29.4	C	47	81	0.37	35.4	D	57	96
	NB-T (1)	0.74	42.2	D	209	276	0.53	38.4	D	118	170
	NB-R (1)	0.06	6.8	A	0	16	0.10	9.3	A	0	24
	SB-LTR (1)	0.66	27.5	C	13	27	0.84	41.8	D	67	75
	Intersection	-	21.4	C	-	-	-	19.4	B	-	-
South Union Street @ Gardner Pk (unsignalized)	WB-LR (1)	0.04	16.1	C	-	3	0.16	17.4	C	-	14
	NB-TR (1)	0.54	0.0	A	-	0	0.50	0.0	A	-	0
	SB-LT (1)	0.02	0.4	A	-	1	0.01	0.2	A	-	1
	Intersection	-	0.3	A	-	-	-	0.7	A	-	-

Exhibit 3.3.1.7 a Level of Service Table (Alternative 1)											
Intersection	LANE GROUP	AM Peak Hour					PM Peak Hour				
		V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)	V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)
South Union Street @ Broad Street (Signalized)	EB-L (1)	0.40	45.0	D	54	99	0.80	51.2	D	197	281
	EB-R (1)	0.20	40.6	D	23	53	0.50	37.5	D	101	158
	NB-L (1)	0.52	8.4	A	31	53	0.23	9.2	A	15	27
	NB-T (1)	0.61	8.6	A	175	365	0.69	16.8	B	281	328
	SB-TR (1)	0.77	17.7	B	151	188	0.73	15.7	B	151	179
	Intersection	-	14.8	B	-	-	-	23.7	C	-	-
Broad Street @ Pitkin Street (Unsignalized)	EB-T (2)	0.03	0.0	A	-	0	0.15	0.0	A	-	0
	WB-T (1)	0.25	0.0	A	-	0	0.09	0.0	A	-	0
	SB-LR (1)	0.03	11.9	B	-	2	0.03	10.3	B	-	3
	Intersection	-	0.4	A	-	-	-	0.4	A	-	-
North Union Street @ East Avenue (Signalized) Maintain 3 Lane Section on East Avenue (Interim Solution)	EB-L (1)	0.14	20.6	C	12	31	0.19	19.1	B	17	39
	EB-TR (1)	0.59	39.7	D	139	219	0.99	68.4	E	433	645
	WB-L (1)	0.51	27.1	C	75	126	0.60	34.9	C	38	84
	WB-TR (1)	0.82	46.6	D	274	465	0.74	36.4	D	280	449
	NB-L (1)	0.60	26.9	C	20	74	0.24	15.7	B	15	26
	NB-TR (2)	0.64	20.9	C	166	227	0.99	50.8	D	320	308
	SB-L (1)	0.72	28.4	C	77	141	1.00	79.6	F	114	275
	SB-TR (1)	0.81	39.8	D	306	454	0.76	40.7	D	286	445
	Intersection	-	32.9	C	-	-	-	51.3	D	-	-
North Union Street @ East Avenue (Signalized) 4 Lane Section on East Avenue when warranted	EB-LTR (2)	0.35	28.4	C	72	106	0.77	38.0	D	196	265
	WB-LTR(2)	0.83	42.1	D	186	253	0.91	51.3	D	178	280
	NB-L (1)	0.41	12.0	B	13	37	0.15	10.2	B	12	21
	NB-TR (2)	0.55	16.9	B	152	217	0.83	28.6	C	293	366
	SB-L (1)	0.56	15.5	B	58	101	0.78	37.2	D	108	220
	SB-TR (1)	0.67	28.8	C	285	398	0.59	27.1	C	249	358
	Intersection	-	26.8	C	-	-	-	35.2	D	-	-
East Avenue @ Pitkin Street (Unsignalized)	EB-TR (1)	0.15	0.0	A	-	0	0.39	0.0	A	-	0
	WB-LT (1)	0.00	0.1	A	-	0	0.01	0.2	A	-	0
	SB-LTR (1)	0.10	16.4	C	-	9	0.15	24.6	C	-	13
	Intersection	-	0.8	A	-	-	-	0.8	A	-	-

Exhibit 3.3.1.7 a Level of Service Table (Alternative 1)											
Intersection	LANE GROUP	AM Peak Hour					PM Peak Hour				
		V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)	V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)
North Union Street @ Charlotte Street (Unsignalized)	EB-LTR (1)	0.14	16.3	C	-	12	0.23	19.9	C	-	22
	WB-LTR(1)	0.17	15.9	C	-	16	0.31	19.8	C	-	32
	NB-L (1)	0.03	9.4	A	-	3	0.05	9.2	A	-	4
	NB-TR (2)	0.25	0.0	A	-	0	0.35	0.0	A	-	0
	SB-L (1)	0.02	8.3	A	-	1	0.03	8.9	A	-	2
	SB-TR (1)	0.42	0.0	A	-	0	0.39	0.0	A	-	0
	Intersection	-	1.5	A	-	-	-	2.3	A	-	-
Charlotte Street @ Pitkin Street Unsignalized	EB-TR (1)	0.03	0.0	A	-	0	0.04	0.0	A	-	0
	WB-LT (1)	0.00	0.2	A	-	0	0.00	0.2	A	-	0
	SB-LTR (1)	0.07	9.8	A	-	5	0.07	10.2	B	-	6
	Intersection	-	3.0	A	-	-	-	2.4	A	-	-
North Union Street @ Richmond Street (Unsignalized)	EB-LR (1)	0.62	16.5	C	-	108	0.70	20.1	C	-	145
	WB-R (1)	0.03	9.8	A	-	2	0.04	11.3	B	-	3
	NB-L (1)	0.27	8.7	A	-	27	0.33	8.7	A	-	37
	NB-T (2)	0.18	0.0	A	-	0	0.32	0.0	A	-	0
	SB-TR (1)	0.15	0.0	A	-	0	0.08	0.0	A	-	0
	Intersection	-	8.0	A	-	-	-	8.8	A	-	-
North Union Street @ University Avenue (Signalized)	EB-L (1)	0.03	4.2	A	1	2	0.02	3.8	A	0	1
	EB-T (1)	0.47	11.7	B	60	482	0.54	6.7	A	33	105
	WB-L (1)	0.06	7.7	A	6	19	0.08	9.9	A	7	22
	WB-TR (1)	0.50	10.8	B	171	302	0.47	12.7	B	165	290
	NB-LTR (2)	0.71	29.4	C	103	151	0.72	21.0	C	126	147
	SB-T (1)	0.64	46.4	D	112	190	0.25	46.1	D	76	130
	Intersection	-	18.9	B	-	-	-	15.0	B	-	-

Exhibit 3.3.1.7 a Level of Service Table (Alternative 1)											
Intersection	LANE GROUP	AM Peak Hour					PM Peak Hour				
		V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)	V/C Ratio	Delay	LOS	50th Queue (ft.)	95th Queue (ft.)
North Union Street @ East Main Street (Signalized)	EB-L (1)	0.13	2.3	A	2	6	0.01	1.0	A	0	0
	EB-T (3)	0.57	33.8	C	134	184	0.71	29.4	C	137	184
	WB-L (1)	0.37	14.2	B	40	65	0.20	12.3	B	20	34
	WB-TR (3)	0.76	33.0	C	236	291	0.72	31.2	C	227	280
	NB-LT (1)	0.31	40.5	D	81	140	0.32	48.0	D	64	121
	NB-R (1)	0.30	22.7	C	45	98	0.45	19.4	B	63	123
	SB-LTR (1)	0.36	13.9	B	20	76	0.24	8.8	A	0	43
	Intersection	-	29.7	C	-	-	-	28.7	C	-	-
University Avenue @ East Main Street (Signalized)	EB-L (1)	0.17	29.3	C	4	12	0.31	27.5	C	6	12
	EB-TR (2)	0.39	24.4	C	67	90	0.62	21.5	C	87	108
	EB-R (1)	0.26	8.3	A	0	23	0.34	4.8	A	0	21
	WB-TR (3)	0.90	7.1	A	12	28	0.69	3.2	A	3	3
	NB-L(1)	0.58	35.6	D	131	216	0.49	45.8	D	128	203
	NB-LTR (2)	0.56	31.3	C	137	191	0.48	42.6	D	136	187
	SB-L (1)	0.73	41.4	D	197	307	0.70	40.6	D	183	280
	SB-LTR (2)	0.72	36.2	D	200	267	0.70	36.0	D	189	246
	Intersection	-	22.9	C	-	-	-	22.4	C	-	-
University Avenue – Pitkin Street @ East Main Street (Signalized)	EB-L (1)	0.09	26.8	C	3	13	0.27	36.3	D	8	31
	EB-TR (2)	0.30	24.7	C	78	114	0.55	28.7	C	170	226
	WB-L (1)	0.02	6.9	A	2	2	0.02	6.5	A	1	3
	WB-T (2)	0.32	6.5	A	41	55	0.25	5.4	A	24	53
	WB-R (1)	0.30	1.7	A	0	6	0.23	1.5	A	0	8
	SB-L (2)	0.21	26.1	C	51	80	0.26	27.3	C	64	94
	SB-TR (1)	0.06	23.2	C	13	34	0.06	22.6	C	13	35
	Intersection	-	12.8	B	-	-	-	17.4	B	-	-

3.3.1.7 (2) – Work Zone Safety & Mobility –

A. Work Zone Traffic Control Plan –

It is anticipated that multiple on-site and off-site detours will be required as part of the project. Access along Union Street and Pitkin Street along with parking will be maintained during construction. Routes for emergency vehicles will be maintained and open during construction. The details for the work zone traffic control will be prepared and evaluated during final design.

## B. Special Provisions -

The use of time related provisions will be evaluated during final design. The work zone traffic control will need to be coordinated with local officials and residents.

## C. Significant Projects (per 23 CFR 630.1010) -

The Region has determined that the subject project is significant per 23 CFR 630.1010.

A Transportation Management Plan (TMP) will be prepared for the project consistent with 23 CFR 630.1012. The TMP will consist of a Temporary Traffic Control (TTC) plan. Transportation Operations (TO) and Public Information (PI) components of a TMP will be considered during final design.

### 3.3.1.8. Safety Considerations, Accident History and Analysis –

Several safety improvements will be incorporated into the preferred alternative and are listed below.

At several locations throughout the project corridor, curb bump-outs will be provided to serve as a traffic calming features and also provide a shorter crossing distance for pedestrians. In addition these bump-outs will help protect parked vehicles along the corridor.

The project will also include several pavement marking improvements as part of the project. To provide a longer lasting and higher visibility marking for motorists, the existing pavement striping will be replaced with epoxy reflectorized pavement markings. In addition high visibility crosswalks will be incorporated into the final design.

The project will replace several infrastructure elements within the corridor. Traffic signs will be replaced using the new National Manual of Uniform Traffic Control Devices (MUTCD) and the New York State Supplement to the National MUTCD standards. In addition, the existing traffic signals will be replaced as part of the project.

Safety improvements for pedestrians include countdown timers at signalized intersections, new concrete sidewalks and ADA compliant ramps. In addition, new high visibility crosswalk pavement markings and curb bump outs will aid pedestrians in crossing the existing roadways.

Safety improvements for bicyclists include a two way cycle track to separate cyclists from vehicular traffic. In addition, bike boxes and integration with the traffic signal operations will also improve safety for cyclists.

The horizontal clearance criteria within the project corridor will be 1.5', except at intersections where 3' of clearance would be preferred. Typical encroachments consist of traffic signs, light poles and utility poles and trees. Traffic signs will be replaced and placed to meet the horizontal clearance requirement of 1.5'. Utility poles will be evaluated and relocated to also accommodate the 1.5' horizontal clearance requirement. New street light pole and trees will also maintain a minimum of 1.5' of clearance.

Because the existing accident rates are generally near or below the statewide average (except intersections), it is reasonable to assume that the total number of accidents will not go down. Any projected reduction in traffic volume on the combined Inner Loop/Union Street/Pitkin Street corridors due to this project will result in a corresponding increase in volume on the nearby city street network. As such, although accidents may decrease on the project corridor (due to lower volumes), there will most likely be an offsetting increase elsewhere on the nearby city street network.

The project will however reduce the rate of severe accidents (i.e. personal injury crashes) due primarily to a proposed reduction of the speed limit from a high speed 45 mph expressway to a 30 mph low-speed city street. The elimination of numerous non-standard and non-confirming roadway features on the Inner Loop expressway will also help reduce the severity of accidents.

By relocating the high speed expressway traffic to the new low-speed Union Street, the rate of severe accidents that had occurred on the Inner Loop will drop to a level that is closer to the rate of severe accidents on the adjacent city streets, Union and Pitkin. Considering that the rate of severe accidents on the Inner Loop was 43%, and the rate of severe accidents on Union Street and Pitkin Street was 16% and 8% respectively, it is expected that there will be a reduction of severe accidents 43% to a level that is closer to 12%, the average rate of Union Street and Pitkin Street.

Based on the estimated reduction of severe accidents coupled with the average accident costs as developed by FHWA, an Estimated Annual Safety Benefit of \$460,000 will result. Refer to Appendix H for a full accident history summary and safety benefit analysis including NYSDOT Form TE 164.

#### **3.3.1.9. Impacts on Police, Fire Protection and Ambulance Access -**

The impact of the preferred alternative on emergency vehicles that routinely use this route will be temporary during the construction phase of the project. With the re-established grid street system, and providing two-way operations along Union Street from Monroe Avenue to East Main Street, improved circulation and access will result.

#### **3.3.1.10. Parking Regulations and Parking Related Issues –**

Union Street will include on-street parking amenities, along both sides, which will also serve to support future land development on the vacant parcels created by the removal of the Inner Loop expressway. In addition, parking lanes have been formalized along Howell and Pitkin streets to increase parking within the project corridor.

#### **3.3.1.11. Lighting –**

The existing lighting system will be replaced to increase the lighting levels within the project limits. Detailed lighting plans will be developed during the final design phase of the project.

#### **3.3.1.12. Ownership and Maintenance Jurisdiction –**

The Inner Loop expressway will be removed, thereby absolving the State of most of its ownership and maintenance responsibilities for the facility's upkeep. The I-490 ramps to Monroe Avenue will remain the ownership and maintenance responsibility of the State. In addition, the new Inner Loop ramps near Richmond Street will remain under NYSDOT jurisdiction.

All other impacted roads will continue to be owned and maintained by the City of Rochester.

All other facilities will retain ownership as described in Section 2.3.1.12.

#### **3.3.1.13. Constructability Review -**

The City of Rochester, Department of Environmental Service, Construction division in conjunction with NYSDOT will review the final plans for constructability related issues.

### **3.3.2. Multimodal**

#### **3.3.2.1. Pedestrians –**

As is the case with most City streets, pedestrian facilities will be provided on both sides of the newly constructed roads and will be designed to conform to ADA standards. Intersections will include appropriately designed cross-walks, sidewalk ramps, and pedestrian signal heads and push buttons. The elimination of the Inner Loop expressway, with its restrictions on pedestrian and bicycle traffic, will correspondingly remove this natural barrier between the Center City and the adjoining neighborhoods thereby improving accessibility for all foot traffic.



### 3.3.2.2. Bicyclists –

Alternative 1 will effectively reconnect the local grid street system and will provide improved accessibility between the Center City and adjacent neighborhoods through new east/west connections. A dedicated two-way cycle track, which will be physically separated from Union Street, is also proposed from Monroe Avenue to University Avenue.

### 3.3.2.3. Transit –

RGRTA will need to reroute various existing RTS bus routes to the new at-grade arterial if transit service is desired with the reconnected street grid system. Alternative routes and local stops will be identified during the design phase in cooperation with RGRTA.

### 3.3.2.4. Airports, Railroad Stations, and Ports –

No changes are proposed; no conflicts are expected.

### 3.3.2.5. Access to Recreation Areas (Parks, Trails, Waterways, and State Lands) –

Although the Inner Loop expressway will be removed, the City's original grid system will be reestablished, thus no changes are proposed.

## 3.3.3. Infrastructure

### 3.3.3.1. Proposed Highway Section –

Alternative 1, which includes an at-grade arterial (Union and Howell Streets), will typically take the form of a three to four lane curbed city street.

Based on the spacing of intersections and adjacent parcel access, center flush medians and left turn lanes will also be provided. The posted speed limit along the new arterial will be 30 MPH.

Refer to Appendix A for typical sections.

3.3.3.1. (1) Right of Way - The table below represents the ROW acquisitions that will be required for this project. The proposed project will also require multiple Grading Releases throughout the corridor.

Exhibit 3.3.3.1 Right-of-Way Acquisitions				
Property Owner	Property Address	Tax Map No.	Type of Acquisition	Estimated Acquisition Area
109 S Union Street LLC	216 Monroe Ave	121.41-2-6	PE	48 sf.
109 S Union Street LLC	111 South Union Street	121.41-2-2	TE/PE	352 sf. / 788 sf.
Carl Zizzo	68-70 North Union Street	106.82-3-30	PE	50 sf.
Christian Bethel Fellowship Church Rochester	321 East Ave	121.33-1-9.3	TE/PE	4,287 sf./ 2,729 sf.
Bethel Full Gospel Church	292 East Ave	121.25-1-42	PE	32 sf.
ESL Federal Credit Union	255 Chestnut St	121.0-21.002	TE	704 sf.

Exhibit 3.3.3.1 Right-of-Way Acquisitions				
Property Owner	Property Address	Tax Map No.	Type of Acquisition	Estimated Acquisition Area
Margaret Woodbury Strong Museum	1 Manhattan Square Drive	121.33-1-5	TE/PE	20,897 sf. / 4,134 sf.

3.3.3.1. (2) Curb – All new or improved roadways will include vertical face granite curbing per City of Rochester standards.

3.3.3.1. (3) Grades – The proposed grades will follow the existing topography of the corridor. Grades are typically less than 2%. The proposed Inner Loop ramps will require grades of approximately 4.25% to traverse back under the East Main Street Bridge and reconnect to the existing Inner Loop mainline elevations.

3.3.3.1. (4) Intersection Geometry and Conditions – Most of the proposed intersections will be constructed as typical 4-way urban intersections. The adjoining city streets typically intersect the corridor at right angles. During the preliminary design evolution several options were evaluated for the following intersections:

Inner Loop / Monroe / Chestnut Intersection - Due to the removal of the Inner Loop mainline several alignment options were explored. Relocating the alignment to the northern or southern edge of the ROW corridor did not allow improvements to be made to the existing 43 degree skew angle of the intersecting roadways. A hybrid solution was determined to be the most effective where the western approach would favor the southern alignment and the eastern approach would favor the northern alignment. A large reverse curve would be utilized to connect the two alignments and improve the skew angle to 53 degrees. This approach provided several benefits including, providing ample room for the terminus of the cycle track on the NE corner, reduced pedestrian crossings movements and facilitated large vehicle turning movements. In addition this intersection had further complications due to existing property access located on the existing expressway ramp. To accommodate this existing access, a parallel one-way alley was created to separate the driveways and on-street parking from the expressway ramp terminus.

Howell / South Union Street Intersection – The removal of the Inner Loop mainline provided several options for the geometric orientation of this intersection. Several options were presented to the public during the public involvement process (see Appendix N). The option to provide an intersection aligned with Lafayette Park was determined to be the most beneficial. This intersection geometry provides for a single point intersection, facilitates turning movements, provides shorter pedestrian crossing distances, and provides suitable conditions for the cycle track operations.

Inner Loop Ramps / North Union Street Connection – The northern terminus for the Inner Loop will require ramps near the north end of the project. Several options were evaluated during the preliminary design phase. Below is a list of options evaluated:

- T Intersection with Charlotte Street – This option would provide a T-intersection connection with Charlotte Street mid-block between Pitkin Street and North Union Street. This option was deemed infeasible due to the limited segment length (160') that exists between these two streets. This limited space did not provide sufficient stacking distance at the Charlotte / North Union Street intersection and created excessive spatial requirements to accommodate large vehicle turning movements.
- Connection to Pitkin Street – This option would provide the ramp terminus near the Pitkin Street / Richmond Street intersection. This option was deemed not desirable due to the additional infrastructure required along Pitkin Street and Charlotte Street to accommodate the additional traffic and the large vehicle turning movements. The two-way conversion of Pitkin Street was also considered and deemed not desirable due to the requirement of adding additional traffic movements to the University / Pitkin / East Main Street intersection. In addition, this would promote traffic flow down the Pitkin alley (Charlotte to Broad) instead of connecting to the arterial street of Union Street.

- Connection to Union Street – This option would provide the ramp terminus near the North Union Street / Richmond Street intersection. This option was deemed the most desirable due to its connectivity to the arterial street and geometric constraints under the East Main Street Bridge. The intersection location is also desirable due to the traffic operations at this location would not require signalization.

#### 3.3.3.1. (5) Roadside Elements:

- (a) Snow Storage, Sidewalks, Utility Strips, Bikeways, Bus Stops - there are no proposed changes other than replacement.
- (b) Driveways - the driveway aprons will be modified to comply with the City of Rochester current standards for design.
- (c) Clear Zone - The clear zone will be approximately 1.5 ft. wide and will be refined during final design.

#### 3.3.3.2. Special Geometric Design Elements -

3.3.3.2. (1) Non-Standard Features –The Inner Loop Ramps at the northern terminus require non-standard radii and super elevation rate due to the close proximity of the terminus. These two curves however occur in a speed transition area on a stop controlled intersection approach where reduced speeds will occur and provide a beneficial traffic calming effect between the expressway and local city street network. The proposed 150' radii, meets a 25 MPH design speed that will be above the estimated speeds for this section of intersection approach.

In addition, a non-standard super elevation rate is proposed along Howell Street near the Union Street intersection. This curve is part of a speed transition area on an intersection approach where reduced speeds will occur. Due to the close proximity to the intersection, inadequate room is available for super elevation transitions to occur to reach the standard value. The normal crown super elevation rate proposed, meets a 25 MPH design speed that will be above the estimated speeds for this section of intersection approach.

Non-Standard justification forms can be found in Appendix E.

3.3.3.2. (2) Non-Conforming Features – It is anticipated that the new arterial street will be designed to meet standards; any special design elements will be identified during the detailed design phase. No Non-Conforming features are anticipated at this time.

#### 3.3.3.3. Pavement and Shoulder –

A new full depth asphalt pavement section will be used throughout the project limits. The new asphalt concrete pavement structure consisting of 9.5" of new bituminous asphalt concrete will be placed on 12" of new subbase material. A geotextile fabric will be placed to inhibit the movement of fine soils into the subbase material. New underdrain will be placed along the new granite curbs to improve subsurface drainage.

#### 3.3.3.4. Drainage Systems –

The existing drainage system improvements will be limited to catch basin replacements, and supplemental catch basin installations where needed, to provide adequate roadway drainage throughout the corridor. The existing Inner Loop drainage system will be abandoned and a section of the existing combined sewer along the Inner Loop from Broad Street to East Avenue will be relocated. In addition a 6" underdrain system with curb will be installed along the proposed curb line to enhance subsurface pavement drainage. Manhole frames and covers will also be replaced.

#### 3.3.3.5. Geotechnical –

No special techniques or considerations are needed.

At this time, it is anticipated that rock will be encountered during the construction of this project. Soil Borings will be conducted during subsequent phases to determine existing bedrock elevations.

### **3.3.3.6. Structures –**

Alternative 1 includes the removal of the depressed Inner Loop expressway. The corridor will then be raised to an elevation that matches the adjacent terrain, thereby eliminating the need to retain and maintain the existing roadway bridges at Monroe Avenue, Broad Street and East Avenue, as well as the steam pipe bridge. As part of the removal the upper 8 feet of the existing substructures will be removed, and the remainder will be abandoned below grade.

Alternative 1 also eliminates the need to retain and maintain the existing retaining walls that run along both sides of the Inner Loop expressway. It is assumed that the top portion of the retaining walls would be demolished and the remainder of the walls would be abandoned in place below grade.

There are no proposed bridges within the project limits.

### **3.3.3.7. Hydraulics of Bridges and Culverts –**

There are no bridges over waterways or culverts within the project limits.

### **3.3.3.8. Guide Railing, Median Barriers and Impact Attenuators –**

Alternative 1 eliminates the need for most of the existing guide rail and appurtenances that are present today. All guiderail that will be retained within the project limits, including bridge railing, will be evaluated during final design for conformance to design standards and replaced or repaired, if necessary.

### **3.3.3.9. Utilities –**

Existing private utilities; electric, gas and cable TV will be impacted throughout the project corridor due to proposed roadway improvements. In order to facilitate their necessary relocations, coordination with those private utilities will continue during the Detailed Design Phase.

Public utilities; traffic signal communications, water and street lighting will be impacted throughout the project corridor due to the proposed roadway improvements.

In addition, all utilities within the project limits will be further evaluated during final design for conformance to design standards and replaced or repaired, if necessary.

### **3.3.3.10. Railroad Facilities –**

There are no railroad facilities in the project limits.

## **3.3.4. Landscape and Environmental Enhancements –**

Significant opportunity exists with the preferred alternative to enhance and increase the green space and landscaping as a part of the overall enhancement and aesthetic improvement efforts for this project. Detailed landscaping/streetscape plan will be developed during detailed design.

Refer to Chapter 4 for complete discussion.

### **3.3.4.1. Landscape Development and Other Aesthetics Improvements –**

The landscaping will be provided for or replaced as a part of the overall enhancement and aesthetic improvement efforts for this project. Refer to Chapter 4 for a more detailed discussion.

### **3.3.4.2. Environmental Enhancements –**

The project will incorporate “green infrastructure” wherever possible. Traditional concrete or asphalt features such as the cycle track and adjoining buffer strips have the potential to utilize pervious pavements or porous pavers. These treatments will be evaluated during the detailed design phase.

### **3.3.5. Miscellaneous**

#### **NYS Smart Growth Public Infrastructure Policy Act (SGIPA)**

Pursuant to ECL Article 6, this project is compliant with the New York State Smart Growth Public Infrastructure Policy Act (SGIPA). The project is an improvement to an existing infrastructure. It is located in a municipal center and in an area designated for concentrated infill development consistent with an approved comprehensive land use plan. Environmental impacts are expected to be negligible, and resource preservation and/or protection of such features as air quality, surface and groundwater and historic and archeological resources are included. The project will also foster mix land uses on the lands freed-up by the removal of the Inner Loop expressway and will improve mobility for all users including motorists, pedestrians, bicyclists and transit operations.

To the extent practicable this project has met the relevant criteria as described in ECL § 6-0107. The Smart Growth Screening Tool was used to assess the project’s consistency and alignment with relevant Smart Growth criteria; the tool was completed by the City of Rochester for inclusion in the design approval document and reflects the current project scope. A copy of the Smart Growth form has been included in Appendix M.



## **CHAPTER 4 - SOCIAL, ECONOMIC and ENVIRONMENTAL CONDITIONS and CONSEQUENCES**

### **4.1 Introduction**

The purpose of this chapter is to identify and support the NEPA Class and SEQR Type determination.

#### **4.1.1 Environmental Classification**

##### **4.1.1.1 NEPA Classification -**

The Scoping Report suggested classifying this project as a Class III EA to start preliminary design, but subsequent environmental evaluations included within this Draft Design Report have concluded this project can be classified as a Class II Categorical Exclusion with documentation. This project therefore; is classified as a Class II action under United States Department of Transportation (USDOT) National Environmental Policy Act (NEPA) Regulations, 23 CFR 771. A NEPA checklist has been prepared and is included in Appendix C.

The lead agency for NEPA is the Federal Highway Administration (FHWA).

##### **4.1.1.2 SEQR Classification -**

The project is a SEQR Type I Action in accordance with 17 NYCRR Part 15 - Procedures for Implementation of State Environmental Quality Review Act. The City of Rochester, as the Lead Agency for SEQR, has requested that a Full Environmental Assessment Form be completed for this project to assist with their assessment of project impacts. Upon review, it has been determined that there will be no potential significant environmental impacts identified and a SEQRA Negative Declaration Determination has been filed in accordance with 17 NYCRR 15.10. See Appendix D for further information.

#### **4.1.2 Coordination with Agencies**

##### **4.1.2.1 NEPA Cooperating and Participating Agencies -**

The following agencies have been identified as Cooperating Agencies in accordance with 23 CFR 771:

- Coordination with Federal Highway Administration
- Coordination with New York State Department of Transportation
- Coordination with New York State Department of Environmental Conservation
- Coordination with New York State Historic Preservation Officer (SHPO)
- Coordination with the US Fish and Wildlife Service
- Coordination with the New York Natural Heritage Program

Involved and interested stakeholders include:

- City of Rochester
- Monroe County
- Various area utility companies

## 4.2 Social

Executive Order (EO) 12898 Environmental Justice in Minority Populations requires federal agencies, departments, and their contractors to consider any potentially disproportionate human health or environmental risks their activities, policies, or programs may pose to minority or low-income populations. EO 13045 (Protection of Children from Environmental Health Risks and Safety Risks) requires federal agencies to identify and assess health risks and safety risks that may disproportionately affect children. As with EO 12898, HRSA and most federal lead agencies determine impacts to children as part of the NEPA compliance process. Agencies must ensure that its policies, programs, activities, and standards address disproportionate risks to children that results from environmental health risks or safety risks. This section discusses the proposed project's potential impacts to social and economic factors, and, evaluates the socioeconomic effects of the project alternatives.

There are two alternatives being considered. The feasible option involves removing the Inner Loop from South Clinton Avenue to Main Street and reconstructing the original street grid (new at-grade arterials, Howell Street and Union Street), thereby reconnecting the neighborhoods. Under the No Build Alternative, the basic infrastructure would be retained and maintenance and rehabilitation efforts would be performed by primarily the State, along with City and County forces to extend the service life of the existing pavement, structures and adjoining service roads and intersections.

### 4.2.1 Land Use

The project area is located in a highly urbanized, city setting that is composed of a major transportation network surrounded primarily by commercial, governmental and institutional properties to the west and smaller businesses interspersed with residential housing to the east. The majority of the project area and individual land parcels has been developed for over 100 years. Access to the Inner Loop is facilitated through a series of ramps which connect to the adjacent city roadways that cross-cut the adjacent neighborhoods.

During the initial Inner Loop Improvement Study, various land use evaluations were undertaken for the reclaimed land in the corridor that would be created by the implementation of Alternative 1. This land recovery allows for future land use opportunities and the potential to physically and visually connect the Central Business District to the adjacent neighborhoods. The 2001 study identified opportunities for residential neighborhood extensions, commercial development, and open space, in the range of 9.4 acres of new land depending on the at-grade road alignment and width characteristics. Since then, various community initiatives have taken a serious look at desired land uses and densities, resulting in several recommendations surrounding the Southeast Loop area. The 2003 Center City Master Plan and the 2007 Downtown Charrette process helped to formulate a vision on the desired community characteristics that can be considered in this area, including the need to:

- *Create a major gateway at the east end of Main Street,*
- *Create new development sites for civic space, new development and parking,*
- *Create new infill development that complements the historic housing stock along South Union Street,*
- *Reconnect Monroe Avenue to downtown through the addition of continuous building frontages,*
- *Expand and improve Manhattan Square Park and create a major civic space in front of the Strong Museum,*
- *Extend Woodbury Boulevard to improve connections and new opportunities for infill development,*
- *Create new neighborhoods that provide a built-in-constituency for Manhattan Square Park and other downtown destinations,*
- *Narrow Broad Street to provide new building sites that would create a stronger public realm.*



#### 4.2.1.1 Demographics and Affected Population -

The proposed project is located within a potential Environmental Justice area in the City of Rochester as mapped by NYSDEC. The project is located within three census tracts: Tract 93.01, Tract 93.02 and Tract 94. The following table is based on U.S. Census Bureau information:

Population in the Census Tracts							
Census Tract	Total Population	White	African American	American Indian and Alaska Native	Asian	Native Hawaiian and Pacific Islander	Other
Tract 93.01	2,491	553	1,458	33	16	5	425
Tract 93.02	1,514	960	415	29	68	4	38
Tract 94	4,530	2,303	1,744	40	275	10	158

\*2010 census data

The immediate environment is defined as the proposed project corridor. Land uses in the immediate environment include, residential, commercial retail, and vacant properties. The affected population includes those who reside, work or own property along the proposed project corridor, as well as those using the subject route for commuting, medical care, transporting goods or conducting business.

This project is compatible with the Community's comprehensive plans

#### 4.2.1.2 Comprehensive Plans and Zoning -

The project (Alternative 1), as proposed, is consistent with the Community's comprehensive plan. Any changing to future zoning requirements will be approved by the City.

### 4.2.2 Neighborhoods and Community Cohesion

#### 4.2.2.1 Community Cohesion -

Neighborhood cohesion is a comprehensive term that refers to an aggregate quality of a neighborhood. It is a social attribute that indicates a higher-than-average sense of community, shared civic responsibility, social interaction within a limited geographic space and interdependence that serves an assimilating function or a number of other localized social purposes. The current Inner Loop expressway long ago severed connectivity between the Central Business District and adjacent neighborhoods.

Removing the Inner Loop and transforming it to a community-scaled urban boulevard will serve to reconnect these entities by allowing the original street grid system to be rebuilt (e.g. Charlotte Street) as well as conversion of South Union Street (the new at grade arterial) to two-way operation. This will allow significantly improved access to adjacent properties. The combination of improved local access, lower travel speeds, and new development can help to reconnect adjacent neighborhoods to the urban core. The quality of neighborhoods and lifestyles can be positively affected as a result of the elimination the Inner Loop. The new roadway network and elimination of the expressway system will allow for improved accessibility by pedestrian, bicycle and vehicles between neighborhoods, eliminating the isolation of these neighborhoods from the vibrant Center City.

#### 4.2.2.2 Home and Business Relocations -

The proposed Alternative 1 does not require the displacement of residences or businesses and there would be no relocation impacts.

#### 4.2.3 Social Groups Benefited or Harmed

Social groups may be defined in various ways including age, race, wealth, ethnicity, place of residence, occupation, and family status.

##### 4.2.3.1 Elderly and/or Disabled Persons or Groups -

A review of US Census data for Monroe County indicates that there is no significant concentration of elderly or disabled persons in the project area. The existing highway separates the Central Business District from the adjacent neighborhoods. This project proposes to reconnect these neighborhoods and therefore will improve accessibility for all user groups.

##### 4.2.3.2 Transit Dependent, Pedestrians, and Bicyclists -

The changes in the roadway network under Alternative 1 will make it easier for pedestrians and bicyclists to travel across the area as the physical impediment of the recessed expressway will be removed and replaced by an at-grade transportation network and reclaimed green space and area for development. A dedicated bike path and new separate sidewalk network will be constructed on the western side of Union Street.

##### 4.2.3.3 Low Income, Minority and Ethnic Groups (Environmental Justice) -

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, was signed by the President on February 11, 1994, and directs Federal agencies to take the appropriate and necessary steps to identify and address disproportionately high and adverse effects of Federal projects on the health or environment of minority and low-income populations to the greatest extent practical and permitted by law. Specific requirements for NEPA related activities associated with federal actions include:

- Programs or activities under an agencies control should not directly or indirectly use criteria, methods, or practices that discriminate on the basis of race, color, or national origin.
- Opportunities for community input must be provided.
- Environmental effects on minority communities and low-income communities must be analyzed and mitigation measures outlined wherever feasible.

The following table provides demographic and economic data for the 2010 census tracts, which comprise the project study area. This information is based on scientific and technical methodologies that do not discriminate either directly or indirectly on the basis or income, race, color, or national origin.

Minority Population in the Census Tracts and the City of Rochester						
Census Tract	Total Population	White	African American	Other	Total Minority	% Minority
Tract 93.01	2,491	553	1,458	480	1,938	77.8%
Tract 93.02	1,514	960	415	139	554	36.6%
Tract 94	4,530	2,303	1,744	483	2,227	49.2%
City of Rochester	210,565	91,951	87,897	30,717	118,614	56.3%

The guidance on evaluating Environmental Justice states that minority populations should be identified where either:

- The minority population of the affected area exceeds 50 percent; or
- The minority population percentage of the affected area is meaningfully greater than the minority population percentage in the general population or other appropriate unit of geographic analysis.

The data indicates that the percentage of the minority population within one census tract (93.01) exceeds the percentage of minority population city-wide. However, this census tract begins at East Main Street and includes the area on the north side of the northern portion of the Inner Loop as opposed to the southern portion of the Inner Loop that is impacted by this project. Therefore this area is located adjacent to but outside the area of construction.

The poverty information collected from the 2010 Census for census tracts 93.01, 93.02 and 94 is found below. In addition, city-wide poverty information is included for comparison purposes.

<b>Low-Income Population in the Census Tracts and the City of Rochester</b>			
<b>Census Tract</b>	<b>Population*</b>	<b>Below Poverty Level</b>	<b>% Total</b>
Tract 93.01	2,708	1,862	68.8%
Tract 93.02	1,575	562	35.7%
Tract 94	2,595	1,383	53.3%
City of Rochester	210,565	65,485	31.1%

\*Population for whom poverty status is determined.

The data indicates that the percentage of the low-income population for all census tracts within the project area exceeds the percentage of low-income population city-wide.

Environmental justice issues require consideration to determine if the project would create disproportionately high environmental and health risks to this low-income and minority segment of the population. The project study area is identified as consisting of low-income and minority populations at a higher percentage when compared to the city as a whole.

However, the project is not expected to result in increased health risks to the affected community. Adverse environmental risks would be limited to short-term construction impacts including increased construction traffic, noise, vibration, and fugitive dust emissions. Construction activities would occur for a period of approximately 36 months. Standard measures to minimize adverse effects would be incorporated into the contract specifications. All work would be required to comply with local noise and traffic codes and ordinances. Truck traffic would be restricted from all local residential streets.

There are no identifiable long-term adverse impacts from the project, and it is not expected to increase risks to the affected community, including minority and low-income populations.

To insure proper public information and opportunities for comment by low-income and minority populations, a comprehensive public involvement program is on-going for the project. This program includes public meetings, presentations and adequate media coverage.

#### **4.2.4 School Districts, Recreational Areas, and Places of Worship**

##### **4.2.4.1 School Districts -**

There will be no significant impacts to the local school district, except for the temporary disturbances and inconvenience generally associated with construction activities. Only one school facility, located at 200

University Avenue, is adjacent to the project corridor. This facility houses World of Inquiry School 58, serving grades K-7. Communication with the City of Rochester School District during construction will help to mitigate potential construction impacts.

#### **4.2.4.2 Recreational Areas -**

No negative impact to recreation areas are expected as a result of the project. Although there are a number of parks located within the City of Rochester, there is only one park in the immediate project corridor, Wadsworth Park. In the vicinity of Wadsworth Park, it appears that the project will actually be creating the opportunity for additional green space on the north side of the park with the removal of the Inner Loop. These improvements will be refined during the final design phase. Opportunities for additional green space are expected as part of the streetscape improvements associated with project improvements. Access for pedestrian traffic is expected to be improved with the implementation of this project.

Rochester's Strong Museum of Play is located adjacent to the corridor on the west side between Monroe Avenue and Broad Street at One Manhattan Square. This internationally acclaimed museum encompasses several acres of property and approximately 300,000 sq. ft. of buildings. This project will have not negative impacts to this parcel. This project will include improved streetscape features, additional green space at the intersection of Monroe-Chestnut and Howell, and introduce new property that will be reclaimed for re-development or establishment opposite from the Strong Museum main parking lot.

#### **4.2.4.3 Places of Worship -**

No negative impact to places of worship is expected as a result of the project. There are three (3) places of worship located along the corridor. These include:

- Bethel Christian Fellowship, 321 East Avenue
- New Hope Free Methodist Church, 62 North Union Street
- Word of the Cross, 76 North Union Street

### **4.3 Economic**

The proposed project is located in the City of Rochester, New York which is a federally-designated Economically Distressed Area. This project (Alternative 1) will have a net positive impact on the long-term efficiency, reliability and cost competitiveness of the United States with respect to the movement of workers or goods. Removal of the Inner Loop Expressway will improve local accessibility in the heart of a major Central Business District that is home to 50,000 employees and hosts millions of visitors annually. The expressway is used for commuting purposes and its removal will not result in significant negative impacts to travel times.

The initial transportation investment will create an estimated 319 job years. However, unlike average transportation investments, this project will leverage significant private redevelopment that will create many more long term jobs in an economically-distressed inner city. The project will make improvements to the roadway infrastructure and circulation on the east side of Rochester's Central Business District, thus allowing for significant expansion, hiring, and growth of private sector businesses. Based on the Inner Loop East Reconstruction Market Analysis, dated July 2013, raising this portion of the Inner Loop will create development parcels that can accommodate between 428,000 and 795,000 square feet of mixed-use real estate development. The new development could support a total land value of all parcels between \$8.0 million and \$11.5 million. Over the long term, this transportation investment will generate considerable local employment growth through the redevelopment of acres of land freed up by removing this section of the Inner Loop.

Mixed use infill development containing retail, office, and residential space will lead to long-term economic gain in an inner city with above-average concentrations of minority and low-income populations. Economic competitiveness is demonstrated by the project's ability to increase the efficiency and effectiveness of the transportation system through integration or better use of all existing transportation infrastructure. The elimination of the expressway section allows for the reconnection of a grid roadway system that will improve overall connectivity and circulation in the area. This increased mobility includes not only vehicular traffic but also improved pedestrian and bicycle access and transit-supportive features. The project includes extending pedestrian links along all newly reconnected cross streets in addition to the new pedestrian systems along the new arterial/boulevard. Bicycle facilities, pedestrian amenities, and transit-supportive appurtenances will be provided where possible.

#### 4.3.1 Regional and Local Economies

The project (Alternative 1) is intended to promote positive local economic impacts. These positive impacts include those that will result from the connectivity established between the surrounding neighborhoods which are now isolated from the Center City area. This project is consistent with the City of Rochester's Center City Master Plan, which recognizes the importance of economic development associated with this proposed boulevard style roadway to replace the below-grade roadway system.

Economic competitiveness is demonstrated by the project's ability to address the four major challenges being faced in the southeast Inner Loop area, they are:

- Overcome the barrier created by the underutilized Inner Loop;
- "Right-Size" wide streets that discourage pedestrian activity;
- Break up "superblocks" that impede pedestrian and vehicular connections; and
- Maximize development potential of vacant and underutilized land.

Removal of the expressway section under Alternative 1 allows for reconnecting the street grid system. This provides for the integration of livability in the transportation system. Some of the livability principles<sup>1</sup> that directly relate to this project include:

- *Provide more transportation choices.* Develop safe, reliable, and economical transportation choices to decrease household transportation costs, reduce dependence on foreign oil, improve air quality, reduce greenhouse gas emissions, and promote public health.
- *Enhance economic competitiveness.* Improve economic competitiveness through reliable and timely access to employment centers, educational opportunities, services, and other basic needs by workers, as well as expanded business access to markets.
- *Support existing communities.* Target Federal funding toward existing communities—through strategies like transit oriented, mixed-use development, and land recycling—to increase community revitalization and the efficiency of public works investments and safeguard rural landscapes.
- *Value communities and neighborhoods.* Enhance the unique characteristics of all communities by investing in healthy, safe, and walkable neighborhoods—rural, urban, or suburban.

#### 4.3.2 Business Districts

##### 4.3.2.1 Established Business Districts –

Because the Inner Loop is a limited access highway, there is essentially no established business district associated with the southeast section of the Inner Loop. Within the southeast area, connecting the East End District (west side of Inner Loop from Main Street to Broad Street), Upper East End District (east side of Inner Loop from University to north of Howell) and the Manhattan Square District (west side of Inner Loop from Broad Street to Monroe Ave) is essential, and removing the southeast section of the Inner Loop will make it possible. The Center City central business district and the business districts associated

<sup>1</sup> USDOT, FHWA, FTA, Livability in Transportation Guidebook, Planning Approaches that Promote Livability, June 2010

with East Main Street, Park Avenue, and Monroe Avenue areas are in close proximity to the project corridor. These districts consist of a mix of dense commercial, retail and service businesses.

#### **4.3.2.2 Effects on Business Districts –**

A positive impact to these business districts is expected due to the improved connectivity between the Center City area and these business districts, as well as the land use changes resulting from this project.

#### **4.3.3 Specific Business Impacts**

##### **4.3.3.1 Established Businesses –**

As the Inner Loop is a limited access highway, there are essentially no existing highway related businesses along the southeast section of the Inner Loop.

##### **4.3.3.2 Effects Assessment -**

Businesses in the surrounding blocks along South Union and Pitkin Street may experience positive effects under Alternative 1 as a result of:

- Improved local circulation and access with the conversion of one-way to two-way streets;
- Improved local circulation with the reconnection of the street grid system;
- Direct connection to adjacent residential neighborhoods;
- New developments will increase population density in the area needing more services;
- Increased pedestrian, bicycle and vehicular traffic along the new accessible urban boulevard; and,
- Opportunity for revitalization of existing building frontages and space.

Minor and temporary inconveniences may be experienced during the construction phase of the project, but no notable permanent impact to highway related businesses is expected as a result of this project.

## **4.4 Environmental**

### **4.4.1 Wetlands**

#### **4.4.1.1 State Freshwater Wetlands -**

There are no NYSDEC regulated freshwater wetlands or regulated adjacent areas (100ft) within the project area, as per the NYSDEC Freshwater Wetlands Maps for Monroe County. A site visit was performed to verify this. No further investigation is required and Environmental Conservation Law, Article 24 is satisfied.

#### **4.4.1.2 State Tidal Wetlands -**

A review of the NYSDEC GIS wetland data files indicates that there are no NYSDEC jurisdictional tidal wetlands or regulated adjacent areas within or near the project limits, and ECL Article 25 does not apply.

#### **4.4.1.3 Federal Jurisdiction Wetlands -**

The project site has been reviewed for wetlands in accordance with the criteria defined in the 1987 US Army Corps of Engineers Wetland Delineation Manual. It has been determined the project will not impact areas that meet this criteria.

A Section 401 Water Quality Certification is not required for the proposed project, since it does not involve work within the waters of the United States, including wetlands (Section 10 or Section 404).

#### **4.4.1.4 Executive Order 11990 -**

Based on a site visit, there are no wetlands located within the project's area of potential effect. Executive Order 11990 does not apply to this project.

#### **4.4.1.5 Mitigation Summary -**

No wetland mitigation/monitoring plan is required for this project, since no wetlands will be impacted.

### **4.4.2 Surface Waterbodies and Watercourses**

#### **4.4.2.1 Surface Waters -**

The project activities do not involve excavation in or the discharge of dredged or fill material into Waters of the U.S. No permits under this Section are anticipated.

#### **4.4.2.2 Surface Water Classification and Standards -**

Based upon a review of the NYSDEC GIS data maps for regulated streams, there are no surface waterways within the proposed project limits. The Genesee River is the major surface water body situated in the project vicinity but is located approximately 800 feet west of the project area but will not be impacted by the proposed project. The NYSDEC stream classification for the Genesee River in the project vicinity, as contained in 6 NYCRR, Chapter X, is Class B Fresh Surface Waters and the water quality standard for the river is B. The best use of Class B waters are primary and secondary recreation contact and fishing. The waters are also suitable for fish propagation and survival.

#### **4.4.2.3 Stream Bed and Bank Protection -**

Based upon a review of the NYSDEC GIS database, and as verified by a site visit, there are no protected streams, nor 50-foot regulated stream banks (on either side of a regulated stream) in the project area.

#### **4.4.2.4 Airport and Airway Improvement -**

There are no airports near the project corridor. As such, there will be no involvement with either airports or airways associated with this project.

#### **4.4.2.5 Mitigation Summary -**

Neither the Null alternative nor Alternative 1 will result in impacts that warrant mitigation.

### **4.4.3 Wild, Scenic, and Recreational Rivers**

#### **4.4.3.1 State Wild, Scenic and Recreational Rivers -**

There are no NYSDEC Designated, Study or Inventory State Wild, Scenic or Recreational Rivers within or adjacent to the proposed project site. No further review is required.

#### **4.4.3.2 National Wild and Scenic Rivers -**

The project does not involve a National Wild and Scenic River as shown by the Nationwide Rivers Inventory List of National Wild and Scenic Rivers. No further review is required.

#### **4.4.3.3 Wildlife/Waterfowl Refuge Section 4(f) Involvement -**

The proposed project does not involve work within or adjacent to a wildlife or waterfowl refuge. No further Section 4(f) consideration is required.

#### **4.4.3.4 Mitigation Summary -**

Neither the Null alternative nor Alternative 1 will result in impacts that warrant mitigation.

### **4.4.4 Navigable Waters**

#### **4.4.4.1 State Regulated Waters -**

There are no state regulated navigable waters located within the project area.

#### **4.4.4.2 Office of General Services Lands and Navigable Waters -**

There are no OGS underwater holdings located within the project area, nor are there any navigable waters present.

#### **4.4.4.3 Rivers and Harbors Act – Section 9 -**

Since the project does not involve the construction or modification of any bridge, dam, dike, or causeway over any navigable water of the United States, Section 9 is not applicable.

#### **4.4.4.4 Rivers and Harbors Act – Section 10 -**

Since the project does not involve the creation of any obstruction to the navigable capacity of any of the waters of the United States, or in any manner alter or modify the course, location, condition, or capacity of any navigable water of the United States, Section 10 is not applicable.

### **4.4.5 Floodplains**

As shown of the GIS database for the 100 year floodplains, there are no floodplains mapped in the project area as identified by a review of FEMA Firm Panel 0213G, number 360431, map number 36055C0213G for the Rochester, New York area in the vicinity of the project. The closest floodplains are those associated with the Genesee River.

#### **4.4.5.1 State Flood Insurance Compliance Program -**

As shown on the GIS data base for the 100 year floodplains, there are no regulated floodplains within the project area.

#### **4.4.5.2 Executive Order 11988 -**

The project will not impact any floodplains. EO 11988 does not apply.



#### **4.4.6 Coastal Resources**

##### **4.4.6.1 State Coastal Zone Management Program -**

The proposed project is not located in a State Coastal Zone Management (CZM) area, according to the Coastal Zone Area Map from the NYS Department of State's Coastal Zone Management Unit.

##### **4.4.6.2 State Coastal Erosion Hazard Area -**

The proposed project is not located in or near a Coastal Erosion Hazard Area.

##### **4.4.6.3 Waterfront Revitalization and Coastal Resources Program -**

According to New York State Department of State, Office of Communities and Waterfronts "List of Approved Coastal Local Waterfront Revitalization Programs (LWRPs)", the City of Rochester plan was originally approved in 1990, and subsequently amended on December 15<sup>th</sup>, 2011 to include a development plan for the Port of Rochester site. The City of Rochester also identifies a Critical Environmental Area for actions proposed within 100 feet of the Genesee River. However, this project is outside the limits of both the LWRP and the CEA. As a result, no further action is required..

##### **4.4.6.4 Federal Coastal Barrier Resources Act (CBRA) and Coastal Barrier Improvement Act (CBIA) -**

The proposed project is not located in, or near a coastal area under the jurisdiction of the Coastal Barrier Resources Act (CBRA) or the Coastal Barrier Improvement Act (CBIA).

#### **4.4.7 Groundwater Resources, Aquifers, and Reservoirs**

##### **4.4.7.1 Aquifers -Topics may include, but are not limited to:**

The proposed project area is not situated over a New York State Department of Environmental Conservation (NYSDEC) Primary or Principal aquifer as identified in Kantrowitz and Snavely (1982). Supplemental groundwater investigations will, therefore, not be required for the project.

##### **4.4.7.2 Drinking Water Supply Wells (Public and Private Wells) and Reservoirs -**

There are no municipal drinking water wells, wellhead influence zones, or reservoirs within or near the project area, according to the *NYS Atlas of Community Water System Sources*, dated 1982, issued by the NYS Department of Health.

#### **4.4.8 Stormwater Management**

Although the project will cause ground disturbance that exceeds 1 acre, stormwater runoff from the entire corridor watershed does not discharge to any Waters of the United States. Therefore the project does not require coverage under NYSDEC SPDES General Permit GP 0-10-001.

Stormwater runoff is collected and conveyed to surface drains that directly discharge to a combined sewer system. The combined flow eventually discharges to a sewage treatment facility for water quality treatment.

The project will also utilize "green infrastructure" features to reduce existing surface runoff wherever feasible.

As is typical for most projects, Erosion and Sediment Control Plans and Details will be developed during Final Design in accordance with Section 209 Soil Erosion and Sediment Control of the NYSDOT Standard Specifications. Design plans will include both temporary and permanent measures to prevent soil erosion and sedimentation.

#### **4.4.9 General Ecology and Wildlife Resources**

##### **4.4.9.1 Fish, Wildlife, and Waterfowl -**

A review of State and Federal mapping and a walkover of the project area indicates that there are no special habitat areas for fish, wildlife or waterfowl.

##### **4.4.9.2 Habitat Areas, Wildlife Refuges, and Wildfowl Refuges -**

The proposed project does not involve work in, or adjacent to, a wildlife or waterfowl refuge. No further consideration is required. In addition, a review of the projects area of potential effect indicates that there is not any special habitat or breeding areas present..

##### **4.4.9.3 Endangered and Threatened Species -**

A review of the United States Fish and Wildlife Service (USFWS) website indicates that there are two federally listed, delisted, or proposed endangered or threatened species located within Monroe County:

- Bald eagle (*Haliaeetus leucocephalus*) - Delisted
- Bog turtle (Riga and Sweden Townships) *Clemmys [Glyptemys]muhlenbergii* - Threatened

The project area comprises an existing transportation corridor located in a fully built urban setting with extensive impervious surfaces, and no extant habitat for the listed species. Therefore, threatened species are not expected to be of concern for construction along the proposed project corridor.

In a letter dated September 30, 2013, the NYSDEC replied that it did not have any records of known occurrences of rare, or state-listed animals, plants, or significant natural communities within or immediately adjacent to the proposed project area. Copies of correspondence are found in Appendix O.

##### **4.4.9.4 Invasive Species -**

This project is located within an urbanized roadway corridor with no natural adjacent areas or parks. A review of the existing corridor did not indicate any significant presence of known invasive species within the right-of-way.

##### **4.4.9.5 Roadside Vegetation Management -**

There is no wildlife-supporting vegetation present along the project corridor.

#### **4.4.10 Critical Environmental Areas**

##### **4.4.10.1 State Critical Environmental Areas -**

According to information obtained from the NYSDEC website, critical environmental areas (CEAs) in the vicinity of the project include land within 100 feet of the Genesee River and areas zoned by the City of Rochester as "open space – O-S". The open space district has been established to preserve and

enhance Rochester's open spaces and recreational areas by protecting these natural resources and restricting development that does not respect these environmentally sensitive areas. Open space districts apply to all publically owned parks, squares, recreational areas, natural wildlife areas, waterfront and cemeteries.

The Genesee River is located beyond the project area. However, Wadsworth Park, a small passive recreation area that is composed primarily of open lawn, is designated by the City of Rochester as open space and is located immediately adjacent to the proposed roadway corridor. However, the project will not acquire nor impact any property from this parcel. Any changes will be restricted to new curb lines, sidewalk and signage. Therefore, it has been determined that the project does not significantly, adversely affect this CEA and no further investigation is required.

#### **4.4.10.2 State Forest Preserve Lands -**

According to information obtained from NYSDEC, the proposed project does not involve work in or near state forest preserve lands.

#### **4.4.11 Historic and Cultural Resources**

The following Cultural Resource Studies were completed for this project:

- Phase 1A Cultural Resource Survey for the Inner Loop East Reconstruction Project completed by the Department of Anthropology, State University of New York at Buffalo. (February 2013)
- Phase 1B Archaeological and Architectural Reconnaissance Survey for the Inner Loop East Reconstruction Project NY Route 940T completed by the Department of Anthropology, State University of New York at Buffalo. (May 2013)
- Phase 2 Archaeological Reconnaissance Survey for the Inner Loop East Reconstruction Project NY Route 940T completed by the Department of Anthropology, State University of New York at Buffalo. (December 2013)

Please refer to Section 4.4.11.4 for a summary of the results of these studies.

#### **4.4.11.1 National Heritage Areas Program -**

There are no "National Heritage Areas" within or in the vicinity of the project area.

#### **4.4.11.2 National Historic Preservation Act – Section 106 / State Historic Preservation Act – Section 14.09 -**

Based on an architectural reconnaissance survey that was in conjunction with the above referenced Cultural Resource Surveys, there are a number of structures within the project area that are listed, or eligible for listing on the National Register. Refer to Section 4.4.11.3 for a description of, and expected impacts to, each of the sites.

Because the project is a federally funded action, involves a federal permit, or is state funded with the possibility of becoming federally funded, the Department will be following the Section 106 Process of the National Historic Preservation Act. This ensures compliance with the NYSHPA Section 14.09 process.

#### **4.4.11.3 Architectural Resources -**

A Cultural Resource Survey (Phase 1A and 1B) was developed as part of this project. As it relates to existing architectural resources, several properties are listed on or eligible for, inclusion in the National Register of Historic Places, and are located within the project's area of potential effect. All of the structures are deemed eligible based on architectural components only and are not based on setting.

There are no project-related impacts to those structures, as such; the proposed project will have no adverse effect on the architectural resources of those properties.

A visual impact Assessment has been conducted for each of these locations and it has been determined no adverse effect will result from the project related improvements See section 4.4.13 for further information.

It is anticipated that SHPO will issue a Determination of No Adverse Effect.

#### **4.4.11.4 Archaeological Resources -**

A Phase I archeological survey was conducted to determine the presence of archeological resources. As a result of the survey, two (2) locations within the project area contained sufficient resources to declare them as being historic archeological sites.

A Phase II archaeological survey was conducted to more precisely determine the locations, quantity and significance of the resources. This investigation recovered several small fragments of past domestic refuse. No further archaeological investigations are recommended due the site's research potential being exhausted by the combined Phase 1B / Phase 2 testing procedures that have already been completed. However construction monitoring is recommended during construction.

It is anticipated that SHPO will issue a Determination of No Adverse Effect.

#### **4.4.11.5 Historic Bridges -**

There are no bridges over 50 years old or listed on NYSDOT's Historic Bridge Inventory that are located within the project's area of potential effect.

#### **4.4.11.6 Historic Parkways -**

This project does not have the potential to impact any Historic Parkways.

#### **4.4.11.7 Native American Involvement -**

The proposed project does not lie within Federal, Tribal, or Indian-owned property. The Archaeological Resources Protection Act of 1979 does not apply. Furthermore, conformance with this Act is covered in the Section 106 Process.

#### **4.4.11.8 Section 4(f) Involvement -**

An archeological survey was conducted by SUNY Buffalo to determine the presence of archaeological resources. No significant archaeological resources were found in the project vicinity. A 4(f) evaluation will not be required for archaeological resources.

### **4.4.12 Parks and Recreational Resources**

#### **4.4.12.1 State Heritage Area Program -**

The proposed project will not impact areas identified as State Heritage Areas.

#### **4.4.12.2 National Heritage Areas Program –**

The proposed project is located in Erie Canal National Heritage Corridor. Due to the significance of the Erie Canal to the City of Rochester's development, the corridor incorporates all of the City of Rochester although the canal does not run through the project corridor. The proposed improvements will have a positive impact on the recreational or historic resources provided by the National heritage Corridor by expanding pedestrian and bicycle facilities and mobility through the project corridor.

#### **4.4.12.3 National Registry of Natural Landmarks -**

There are no listed nationally significant natural areas within, or adjacent to, the project area.

#### **4.4.12.4 Section 4(f) Involvement –**

The proposed project is located adjacent to Wadsworth Park, a non-significant publicly-owned park. However, the project will not affect or require direct or indirect "use" of the park and a Section 4(f) evaluation is not required.

#### **4.4.12.5 Section 6(f) Involvement -**

The project does not impact parklands or facilities that have been partially or fully federally funded through the Land and Water Conservation Act. No further consideration under Section 6(f) is required.

#### **4.4.12.6 Section 1010 Involvement -**

The project does not involve the use of land from a park to which the Urban Park and Recreation Recovery program funds have been applied.

### **4.4.13 Visual Resources**

#### **4.4.13.1 Introduction –**

The current Inner Loop expressway long ago severed connectivity between the Central Business District and adjacent eastern neighborhoods. Many structures were demolished to make way for the route, which was constructed in densely populated neighborhoods that surrounded downtown. The southeast section of the Inner Loop is a four to six lane divided expressway with parallel two to three lane frontage roads. This results in a facility that in some places has as many as twelve travel lanes and occupies a width ranging from 182 feet to 355 feet (curb to curb). The width of the roadway system is not the only negative visual aspect; the expressway is depressed (below grade) in relation to the service roads, creating a moat effect between the Center City and adjacent neighborhoods. The expressway does meet at grade with the service roads near the South Union Street exit. There are high retaining walls, bridges and overhead sign structures with very little landscaping/green space.

The visual environment can be reviewed by looking first at the 'view shed' areas within the corridor and then analyzing the view shed relative to the viewer groups (residents, pedestrians/bicyclists and visitors) and the viewer sensitivity. Some of the photos below show view sheds from a pedestrian/bicyclist crossing a bridge or residents/employees in adjacent buildings.



Combining the width and depth of the expressway system with the adjoining service roads, results in poor view sheds that are intimidating and uninviting from a non-motorized user. A detailed visual resource assessment has been performed and is included in Appendix I.



#### **4.4.13.2 Effects Assessment –**

The transformation of the limited access expressway to an urban scale city street that will consist of 3-4 travel lanes, landscaped medians, roundabouts, a new reconnected street grid system, increased development density and the addition of pedestrian friendly amenities will notably improve the view sheds of this corridor.

#### **4.4.14 Farmlands**

##### **4.4.14.1 State Farmland and Agricultural Districts -**

Based on a review of the NYS Agricultural District Maps from Monroe County, the proposed project is not located in or adjacent to an Agricultural District..

##### **4.4.14.2 Federal Prime and Unique Farmland -**

The proposed project activities will not convert any prime or unique farmland, or farmland of state or local importance, as defined by the USDA Natural Resources Conservation Service, to a nonagricultural use.

#### **4.4.15 Air Quality**

An Air Quality Analysis Report was performed to determine the effect of the proposed design alternative on transportation related pollutant emissions within the study area of the reconstruction project. For this project, a conformity review, a mesoscale analysis and a microscale analysis screening were performed to satisfy the requirements of the National Environmental Protection Act (NEPA), the State Environmental Quality Review Act (SEQRA), and the Clean Air Act Amendment 1990 (CAAA90). The methodology

conformed to NYSDOT's The Environmental Manual (TEM) 2010 which, for the Air Quality Section, currently adheres to the Environmental Procedures Manual (EPM), Section 1.1.

#### Conformity Review:

The proposed project is located in Monroe County, which is part of the Genesee Transportation Council (GTC). GTC is the designated Metropolitan Planning Organization (MPO) in the Genesee-Finger Lakes Region. The USEPA has designated Monroe County as in attainment for all applicable transportation related priority pollutants. Therefore, the region is not currently subject to conformity procedures per Section 176 of the CAAA90 and 40 CFR Parts 51 and 93; the GTC is not currently required to perform air quality analysis for the Region; and a conformity determination is not required for this project.

#### Mesoscale Analysis:

A mesoscale analysis was performed for this project. The results of a mesoscale analysis are relative and do not directly indicate that emissions in the study area are expected to be above regulatory thresholds. The mesoscale analysis is used to compare alternatives and as a screening tool to identify individual pollutants that may require additional study. The mesoscale analysis was performed for five indicator pollutants under years 2015, 2025, and 2035 for both the No-Build and Build alternatives. The emission factors for the analysis were determined from the MOVES (Motor Vehicle Emission Simulator) 2010b computer model, which is currently the approved emission factor model.

The results of the mesoscale analysis indicated that the emissions burdens for all five pollutants are expected to increase within the project area if the Build Alternative is constructed. Pollutant increases predicted under the Build Alternative ranged from 4% to 27% for all years. However, for this project it should be noted that, percent changes were inflated due to the limited study area. This project is expected to affect only the immediate area of the project corridor and not the surrounding roadway network. The effect of a limited study area can yield inflated percent changes for a mesoscale analysis since there is no dilution of the project's effects from the surrounding roadways with minor changes.

The higher pollutant emission rates for the Build Alternative are due to the conversion of a limited access roadway with consistent free-flow speeds averaging 50 mph to a full access roadway with 30 mph signal controlled stop-and-go traffic. Generally, the changes represented by this project will slow traffic along this corridor to speeds similar to that of other City streets within the surrounding roadway network such as Monroe Avenue, East Avenue, and East Main Street. Therefore, regardless of the percent increase in emissions from the downgrade of this freeway to a City street, future emissions along the proposed corridor would likely be similar to the expected background emissions found on other comparable volume streets present in this area of the City.

There is no EPM specified mesoscale percentage level change that would indicate that these pollutants would require further study or documentation; however, the general rule of thumb is an increase of more than 10% for the build alternatives. Since the maximum percentage increases for these pollutants is more than 10% for four of the pollutants, these percentage increases were further screened and documented in the design approval document. Further screening of the project was performed to indicate whether additional study in the form of microscale or hot-spot analyses would be appropriate.

#### Microscale Analysis Screening:

A microscale screening indicated that microscale analysis is not warranted and therefore, the proposed project is not expected to have significant air-quality impacts. The microscale screening of the corridor indicated that the overall volumes and the heavy vehicle volumes along the corridor are too low (below the thresholds) to warrant an in-depth microscale analysis for the indicator compounds carbon monoxide (CO) or particulate matter (PM). Therefore, in accordance with the EPM guidance, the screening indicates that a violation of the NAAQS regulatory thresholds is considered "extremely unlikely" for CO and PM and no further study is warranted. Additionally, due to the mandatory reduction of lead in

gasoline, the FHWA has advised that a microscale lead analysis for highway projects is not needed or warranted.

#### Construction Air Quality:

Construction related air quality screening has indicated that no detailed analysis will be required for this project. Although air quality within the project corridor and the immediate vicinity will experience impacts during the construction period, the use of abatement measures for dust control and proper vehicle maintenance should lessen the severity of these impacts.

See Appendix K for further information.

### **4.4.16 Energy and Greenhouse Gas**

This project has been reviewed to determine the need for a "Project Level" energy of greenhouse gas (GHG) analyses in accordance with the "Draft Energy Analysis Guidelines for Project Level Analysis", NYSDOT November 25, 2003. This Draft Energy Analysis document refers to NYSDOT's Energy Analysis Guidelines for TIPs and Plans (also dated November 25, 2003) which contains the guidance for determining regional significance. The criteria for determining whether project requires a quantitative Energy of GHG Analyses are generally: regional significance, significant increase in VMT, construction costs, projects identified through the scoping process, nature of the project, or existing problems in energy supply or distribution. This project comes close to one of the regional significance thresholds in that it is considered "new construction on a new alignment"; however, the threshold is for projects with new alignment of 1 mile or longer and the new alignment length for the proposed project is closer to 0.8 miles long. Therefore, this project does not require quantitative "Project Level" energy of GHG analyses per the NYSDOT guidance.

### **4.4.17 Noise**

A Noise Analysis was performed to determine the effect of the proposed design alternative on transportation related noise impacts within the study area of the reconstruction project. The methods used in this analysis are in accordance with the provisions and procedures of the policies stated in the federal noise regulations (23 CFR 772), and NYSDOT's *The Environmental Manual* (TEM). The Inner Loop project is classified as a 23 CFR 772 Noise Type I project which requires a noise analysis to determine whether noise abatement measures need to be considered.

To determine the effect that the Inner Loop project would have on existing noise levels and to determine what impact the noise would have on current land-use activities, nine noise sensitive receiver sites were selected for evaluation within the study area. At each receiver location, existing and future noise levels were obtained using field noise measurements and computer modeling. The results of the computer modeling were compared to FHWA standards for the identification of predicted future noise impacts.

FHWA Noise Activity Criteria (NAC) noise impacts were predicted at five of the nine receiver locations for the Build Alternative and four of the nine receiver locations for the No-Build Alternative. It should be noted that the term NAC noise impact is not intended to be used for the purpose of determining a "significant" noise impact under National Environmental Protection Act (NEPA) or the State Environmental Quality Review Act (SEQRA). A NAC impact is a noise level that approaches or exceeds a certain noise threshold that triggers the consideration of noise abatement measures.

With respect to an overall comparison between the No-Build and Build alternatives, the variation in the results ranged from 0-2 dBA for all receivers and 0-1 dBA for the five impacted receivers. Since 3 dBA is generally considered the minimum decibel difference noticeable to the human ear, the differences in noise levels between the No-Build and Build alternatives for the analyzed areas are essentially negligible



and primarily imperceptible to the human ear. Therefore, consideration of the noise level differences between the No-Build and Build alternatives to favor one alternative over another is not recommended.

Due to factors external to the proposed project, future NAC noise impacts are expected at four of the nine receiver locations regardless of whether the proposed project is constructed. Given that the differences in the predicted noise levels between the Build and No-Build alternatives are projected to be imperceptible to the human ear at all five of the impacted receivers, it is not expected that this project will have a significant impact on noise levels throughout the corridor.

When noise impacts are predicted for a project, noise abatement must be considered for each impact; no favor is given to the higher decibel level impacts or different types of noise impacts (e.g. above NAC, substantial, severe) and all noise impacts must be considered equally for consideration of noise abatement. Therefore, noise abatement measures were considered along the project corridor for the areas represented by the five receiver locations that exhibited FHWA noise impacts. When noise abatement measures are being considered, 23 CFR 772 requires that every reasonable effort shall be made to obtain substantial noise reductions. A "substantial" noise reduction is defined as a reduction in the order of ten dBA. However, the abatement must provide a minimum reduction of at least seven dBA at the properties with the greatest reductions. In addition, noise abatement measures must be economically reasonable when compared to the number of residences benefitted. A benefitted residence is any residence where the noise level is reduced by 5 dBA or more by implementation of the noise abatement measure(s).

For the impacted areas, all noise abatement measures listed in 23 CFR Part 772.13(c) were examined and evaluated for reducing the dBA level. In all instances, the noise abatement measures were considered physically infeasible, economically unreasonable, or undesirable to the affected residents. Therefore, no noise abatement measures are recommended for this corridor.

See Appendix L for further information.

#### **4.4.18 Asbestos**

An asbestos assessment was performed to determine whether asbestos containing materials (ACMs) are expected to be disturbed as a result of this project. The results of this assessment included a review of the four bridges within the corridor to be impacted by the project, the expressway retaining walls, sidewalks, and associated railings and signs.

ACMs and suspect ACMs were identified within the record plans reviewed for this assessment. These suspect materials include:

##### BIN 1021630 – Monroe Avenue over Inner Loop

This structure was renovated in 2000 with the deck being replaced and the abutments rehabbed. The following materials were identified as suspect ACM from the original record plans and may still be present on the Bridge but their presence could not be verified in the field during the most recent inspection.

- Bituminous material (Item 61 – applied to the backs of all abutments and walls above tops of footings).
- Compressed asbestos sheet packing (located on top of the back walls).
- Pre-moulded bituminous joint filler and expansion joint materials – various locations including between abutment and approach walls (material was sampled see below).
- Twelve (12) – 5½" ducts for Rochester Telephone Corporation and twenty-four (24) RG&E 5½" conduits (conduits appear to have all been replaced with galvanized steel).

BIN 1050149 - Broad Street Bridge

- Bituminous material (Item 61 – applied to the backs of all abutments and walls above tops of footings).
- Compressed asbestos sheet packing (located on top of the back walls).
- Pre-moulded bituminous joint filler and expansion joint materials – various locations.
- Nine (9) - 4" asbestos cement ducts for Rochester Telephone Corporation.

BIN 1035240 - East Avenue Bridge

- Bituminous material (Item 61 – applied to the backs of all abutments and walls above tops of footings).
- Compressed asbestos sheet packing (located on top of the back walls).
- Pre-molded bituminous joint filler and expansion joint materials – various locations.
- Six (6) - 4" asbestos cement ducts for Rochester Telephone Corporation.

Inner Loop Retaining Walls

Pre-molded bituminous joint filler and bituminous material are also associated with the joint sections of the Inner Loop retaining walls located between South Clinton and East Main Street.

Utilities

A note was identified on the drawings which indicated that the RG&E electrical system in the area was historically composed of ACM transite duct. New electrical conduits installed at later dates were to be composed of galvanized wrought iron or steel pipe. Lighting standard conduits were composed of either fiber conduit or galvanized steel. However, the lighting duct materials used in the vicinity of the Monroe Avenue Bridge for the lighting poles are reportedly composed of 2-inch ACM transite conduit.

Traffic signal conduits are composed of galvanized steel. Storm sewers appear to have been constructed of concrete manholes and pipes, reinforced concrete cylinder pipe, vitreous clay pipe drops, and perforated corrugated metal pipe. Water mains and laterals appear to have been constructed of cast iron or steel pipe. The composition of the conduits associated with the other utilities in this area of the corridor could not be determined from the record plan drawings.

Field Inspection, Sampling and Identification

The inspection of the three bridges, expressway retaining walls, railings and sidewalks identified a number of known or suspect materials that were sampled for laboratory analysis or assumed to be positive for asbestos. The following materials were analyzed by the laboratory. **Materials determined to be positive for asbestos are shown in bold.**

BIN 1021630 – Monroe Avenue over Inner Loop

- Black pre-molded bituminous joint filler found within between sections of the retaining walls and where the retaining walls meet the bridge abutments and piers.
- Green paint associated with the railing found along the top of the expressway walls in this section.

BIN 1050149 - Broad Street Bridge

- White to grey HID light backer board material.
- Bearing pad material.
- **White to grey pre-molded joint filler/expansion joint found between sections of the retaining walls and where the retaining walls meet the bridge abutments.**
- Black sheet packing materials found behind the joint filler/expansion joint.

- Green paint associated with the bridge and bridge railings found along the top of the expressway walls in this section.

#### BIN 1035240 - East Avenue Bridge

- **White to grey pre-molded joint filler/expansion joint found between sections of the retaining walls and where the retaining walls meet the bridge abutments.**
- Black sheet packing materials found behind the joint filler/expansion joint.
- **Utility pipe insulation.**
- Bearing pad material.
- Green paint associated with the bridge and bridge railings found along the top of the expressway walls in this section.

All the white to grey expansion joint materials found between the retaining walls section vertical joints and the bridge abutment transitions to the adjacent retaining walls must be considered asbestos containing. The black sheet packing found behind the joint materials in non-asbestos containing.

The following suspect materials identified on the record plans were not able to be sampled in the field because they were not accessible to the asbestos inspectors:

- Bituminous material apparently applied to the backs of all abutments and walls above tops of footings. If these materials are exposed during demolition, samples should be collected for laboratory analysis to determine if asbestos is present in this material.
- **Compressed asbestos sheet packing (located on top of the back walls). This material must be assumed to be positive and be removed following abatement procedures if encountered in the field during bridge demolition. It was not identified in the field.**

Any removal/disturbance of asbestos-containing materials will need to be performed by a New York State licensed asbestos abatement contractor. It is recommended that Blanket Variance 14 be utilized for the removal of the identified asbestos-containing materials.

If any additional suspect material is observed during the construction period, the Construction Inspector/Engineer in Charge should be immediately notified. Representative samples of the suspect materials should be collected and analyzed for asbestos content in accordance with NYSDOT procedures.

Asbestos Special Notes and Specifications will be prepared to address proper mitigation and disposal of the asbestos materials. These Asbestos Special Notes and Specifications will be prepared by personnel with an Asbestos Designer License.

#### **4.4.19 Hazardous Waste and Contaminated Materials**

##### **4.4.19.1 Lead Based Paint -**

The project corridor was screened to determine the potential presence of lead based paint within the proposed project limits. This screening resulted in the following:

- The railings located at the top of the expressway retaining walls are painted green throughout the corridor. The railings on the bridges (Broad, East and Main) crossing over the expressway are painted green as well. All of these bridges are painted with this similar green paint.
- Silver painted light poles in the vicinity of the Monroe Avenue Bridge.
- The railings on the Monroe Street Bridge are newer galvanized railings. The deck on the Monroe Street Bridge was replaced in 2000, and the beams/girders have a brown appearance.

No other suspect materials were identified within the project corridor. The above referenced locations were tested for the presence of lead by readings obtained by using an Innovex XRF device in the field. Any sample of paint testing  $1.0 \text{ mg/cm}^2$  is considered positive and identified as a lead-based paint by regulation. Based on these results all bridge and railing components that have green paint must be considered to contain lead based coatings. The silver paint associated with the light poles in the vicinity of the Monroe Street bridge section should also be considered positive for the presence of lead.

#### **4.4.19.2 Hazardous Waste and Contaminated Materials -**

##### Screening and Site Assessment

A Hazardous Waste/Contaminated Materials Site Screening (a.k.a. NYS DOT Phase I Environmental Site Assessment (ESA)) was conducted in accordance with NYS DOT's The Environmental Manual (TEM) Section 4.4.20 "Contaminated Materials and Hazardous Substances" (Updated November 2011) and the NYS DOT Environmental Procedures Manual, Chapter 5, in order to document the likely presence or absence of hazardous/contaminated environmental conditions. A hazardous/contaminated environmental condition is the presence or likely presence of any hazardous substances or petroleum products (including products currently in compliance with applicable regulations) on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property.

The Hazardous Waste/Contaminated Materials Site Screening included a review of NYSDEC/USEPA regulatory data files and a site 'walkover' on June 5, 2013. The Hazardous Waste/Contaminated Materials Site Screening identified thirty-five (35) Hazardous Waste/Contaminated Materials sites or groups of sites within or adjacent to the project corridor based on their historical use, database records or observations in the field.

Sites with historic evidence of mapped underground storage tanks (UST) locations that are within or immediately adjacent to the proposed limits of construction are identified below. These sites are most likely to have a potential impact on the project. Special notes and a figure showing the exact location of each of those sites with tanks that are within or immediately adjacent to the area of construction will be prepared for the PS&E package advising the Contractor and EIC that soil contamination may be expected in these areas:

- Mapped USTs were identified beneath the parking lot at approximately 83 North Union Street/287 University Avenue. This area is currently not scheduled to be developed but is located between the proposed Inner Loop roadway and North Union Streets. Since it appears no construction of note ever occurred in this area, the tanks and surrounding soils may still be present;
- A mapped UST was identified in the grassy area between Pitkin Street and the Inner Loop ramp approximately 100 feet south of the intersection of Pitkin and Richmond Streets;
- A mapped UST was identified at a former automobile manufacturer at the northwest corner of Inner Loop and Chestnut Street adjacent to the sidewalk on the north side. Current location would be near the southeast corner of the parking ramp located on the city block bound by Pitkin Street/Inner Loop ramp, South Clinton Avenue, Woodbury Boulevard, and Chestnut Street;
- Mapped USTs were identified at a former gas station near the southwest corner of Johnson Place and Chestnut Street with USTs identified beneath what is now the parking lot and roadway; and,
- Mapped USTs were identified at a former gas station with numerous USTs in the area of the triangle intersection of Inner Loop and Chestnut Street. Due to their location it is presumed that all the tanks have been removed but some residual contaminated soil may be encountered during any excavation work completed in this immediate area.

The excavation contractor will be informed of the historical uses at each of these properties of potential environmental concern for purposes of health, safety, and preparedness. During construction, USTs (if present) should be removed and properly closed and soils encountered with signs of contamination

should be segregated to await sampling and characterization. Once the soils are characterized they should be disposed of in accordance with all applicable regulations. A soil management plan that contains contingency actions for the removal and mitigation of any encountered contaminated soils should be developed as part of this project.

A copy of the Hazardous Waste / Contaminated Material Screening report is located in Appendix J.

#### **4.4.19.3 Contaminated Materials (Other) -**

The Monroe Avenue Bridge has extensive bird guano deposits and dead bird carcasses especially on the southern bridge pier abutment that will have to be handled safely during construction to prevent worker exposure to these materials and the chance of contracting histoplasmosis, cryptococcal meningitis and other diseases.

### **4.5 Construction Effects**

Each of the potential construction impacts and mitigation measures have been identified and discussed in the respective sections and subsections above. However, the single most notable construction related impacts involve disruption to local travel patterns and construction related noise impacts. Disruption to local travel patterns will occur as a result of temporary detours and congestion due to construction activities. Construction related Impacts and Mitigation Measures are discussed below.

#### **4.5.1 Construction Impacts**

Construction noise will occur, however, construction noise differs from traffic noise in the following ways:

- Construction noise only lasts for the duration of the construction contract;
- Construction activities are usually limited to the daylight hours when most human activity takes place;
- Construction activities are generally short term; and
- Construction noise is intermittent and depends on the type of operation.

The project will include the construction activities of excavation, sub-base preparation, roadway millings, placement of fill via dump trucks, and other miscellaneous work.

#### **4.5.2 Mitigation Measures**

Certain mitigation measures can be incorporated into the contract documents to reduce construction noise in the project area. The following mitigation strategies are likely to be used for this project:

- Use of exhaust systems in good working order, engine enclosures and intake silencers;
- Regular equipment maintenance;
- Use of new equipment subject to new product noise emission standards;
- Placement of stationary equipment as far away from sensitive receptors as possible;
- Strategic choice of staging sites and C&D disposal sites; and
- Limitations on work hours.

### **4.6 Indirect and Secondary Effects**

The proposed project has the potential to indirectly affect social conditions by impacting land use, community character, and the local economy by spurring growth. One of the project benefits previously

discussed is that it will create development parcels that can accommodate up to 795,000 square feet of mixed-use real estate development. Based on real estate market estimates included in the Real Estate Market Analysis Report, new development could support a total land value of all parcels between \$8.0 million and \$11.5 million.

#### **4.7 Cumulative Effects**

Other than the secondary impacts associated with the future development of the new parcels, which will be subject to review and approval by the City of Rochester, no cumulative effects are anticipated with this project. The project is essentially a transformation of an existing roadway corridor.

#### **4.8 Irreversible and Irretrievable Commitments of Resources**

Implementation of the proposed project involves a commitment of a range of natural, physical, human, and fiscal resources. Land used in the construction of the proposed facility is considered an irreversible commitment during the time period that the land is used for a highway facility. However, if a greater need arises for the use of the land, or if the highway facility is no longer needed, the land can be converted to another use. At present, there is no reason to believe such a conversion will ever be necessary or desirable.

Considerable amount of fossil fuels, labor, and highway construction materials such as cement, aggregate, and bituminous material are expended. Additionally large amounts of labor and natural resources are used in the fabrication and preparation of construction materials. These materials are generally not retrievable. However, they are not in short supply and their use will not have an adverse effect upon continue availability of these resources. Any construction will also require a substantial one-time expenditure of both State and Federal funds which are not retrievable.

The commitment of these resources is based on the concept that residents in the immediate area, State, and region will benefit by the improved quality life. These benefits will consist of improved accessibility and safety, savings in time, and greater availability of quality services which are anticipated to outweigh the commitment of resources.”

#### **4.9 Adverse Environmental Impacts that cannot be Avoided or Adequately Mitigated**

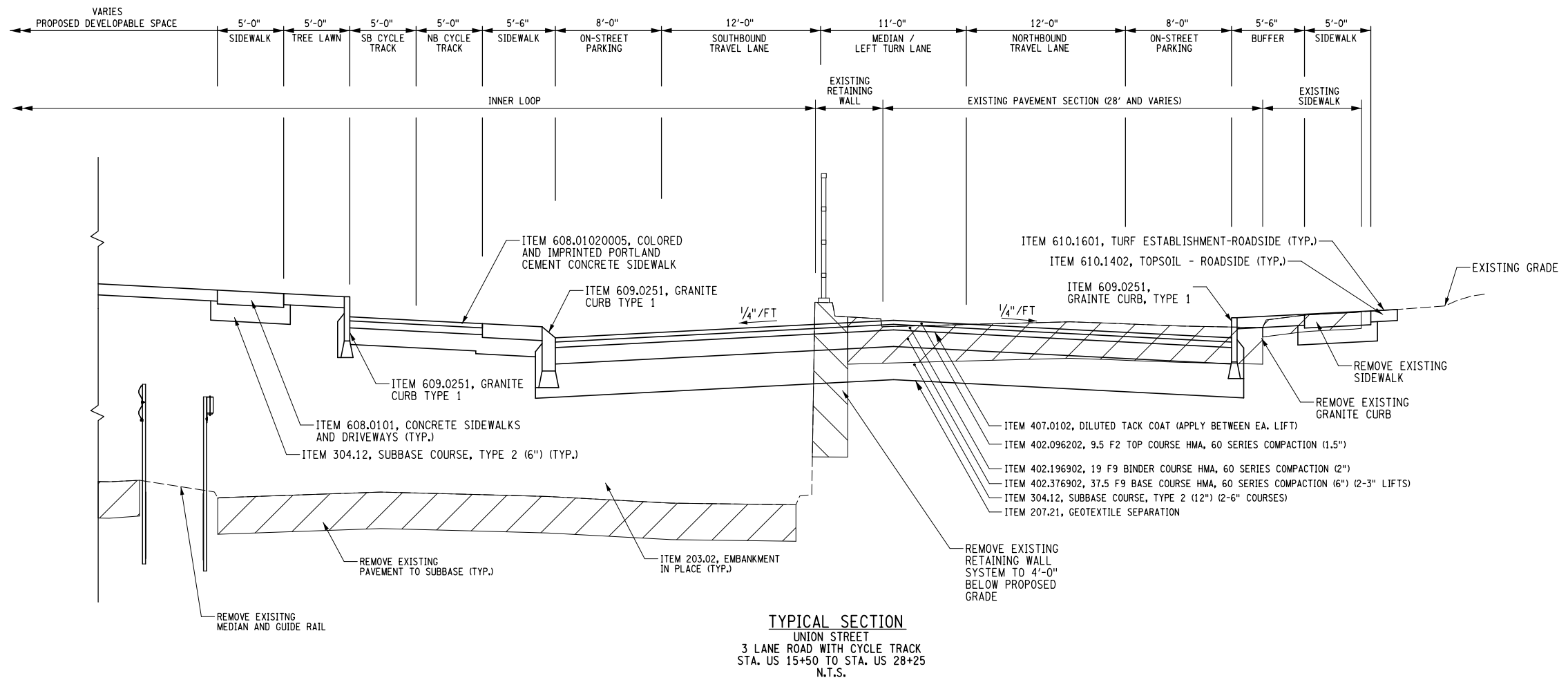
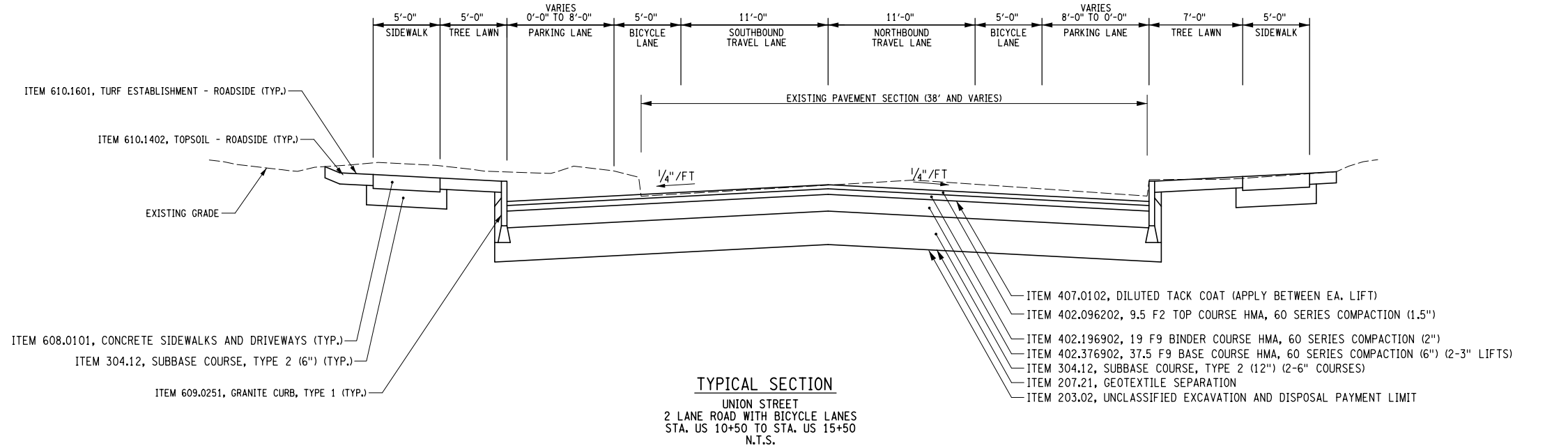
The environmental impacts identified to date for this project that cannot be avoided have been mitigated to the greatest extent practicable. While certain construction related impacts will occur despite mitigation, the resulting impacts will relatively short-term and temporary in nature, much like other City roadway reconstruction projects that occur throughout the region.

# **APPENDIX A**

## **Maps, Plans, Profiles & Typical Sections**







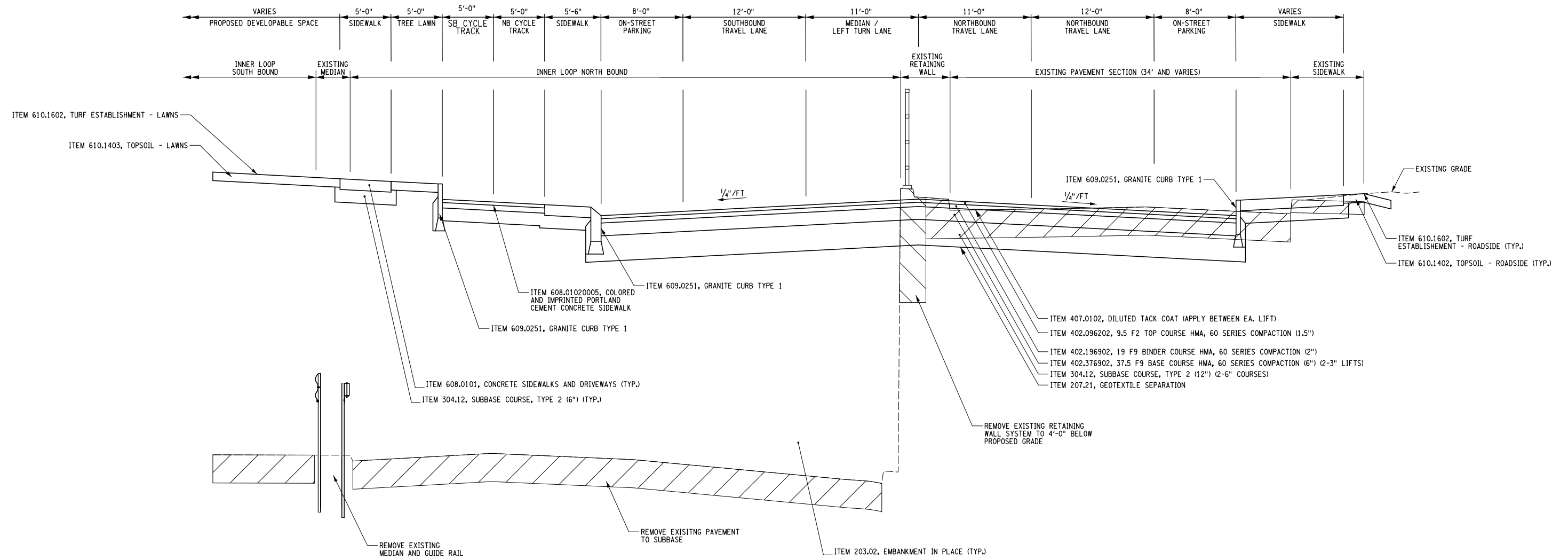
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Project No. 192500295	Scale N.T.S.	Drawing No. TS-1
Sheet XXX of XXX	Revision 0	



**TYPICAL SECTION**  
 UNION STREET  
 4 LANE ROAD WITH CYCLE TRACK  
 STA. US 28+25 TO STA. US 40+00  
 N.T.S.

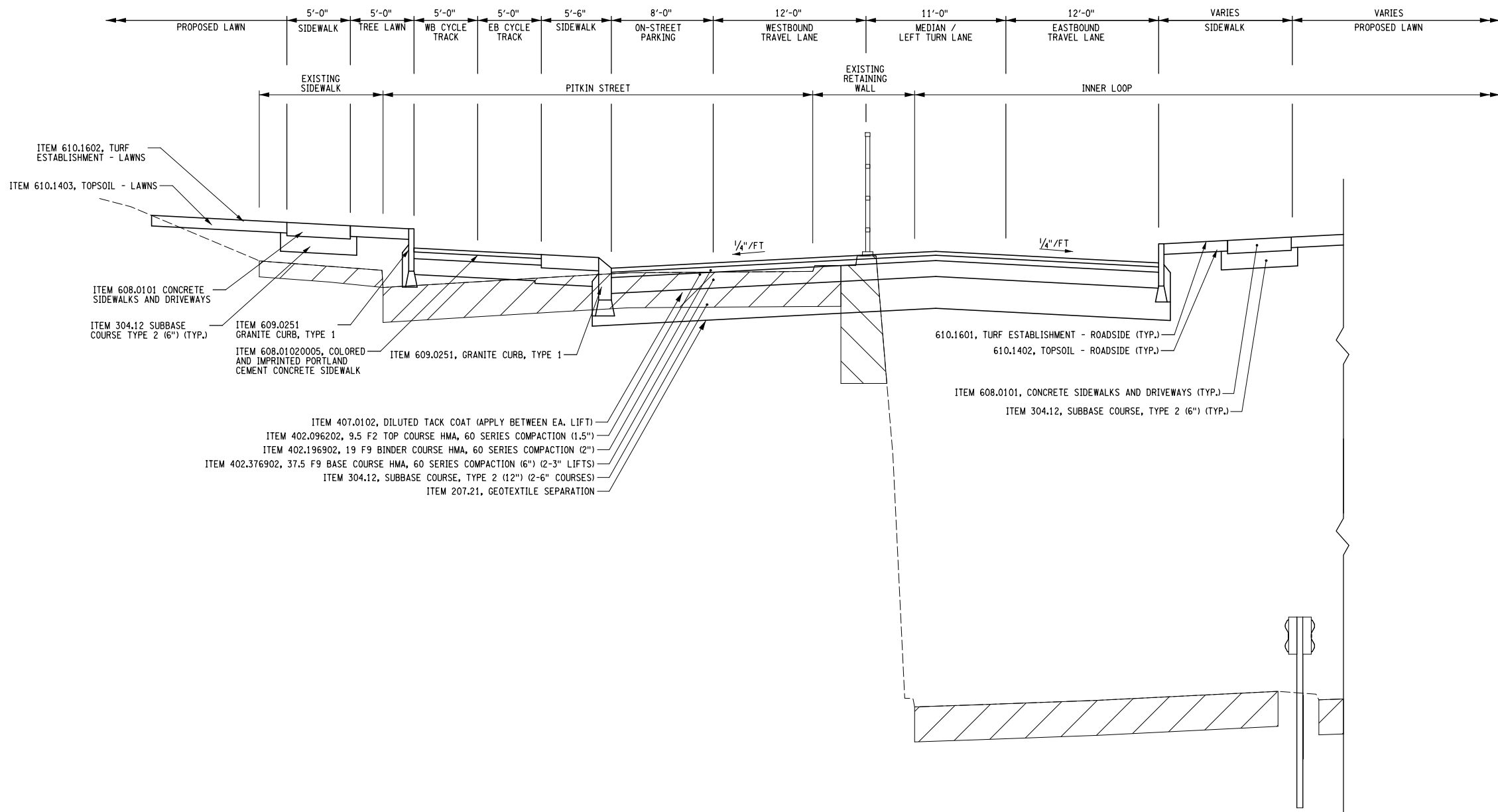
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Title		
TYPICAL SECTION UNION STREET		
Project No. 192500295	Scale N.T.S.	Revision
Drawing No. TS-2	Sheet XXX of XXX	Revision 0



**TYPICAL SECTION**  
 HOWELL STREET  
 3 LANE ROAD WITH CYCLE TRACK  
 STA. HSE 10+00 TO STA. HSE 14+50  
 N.T.S.

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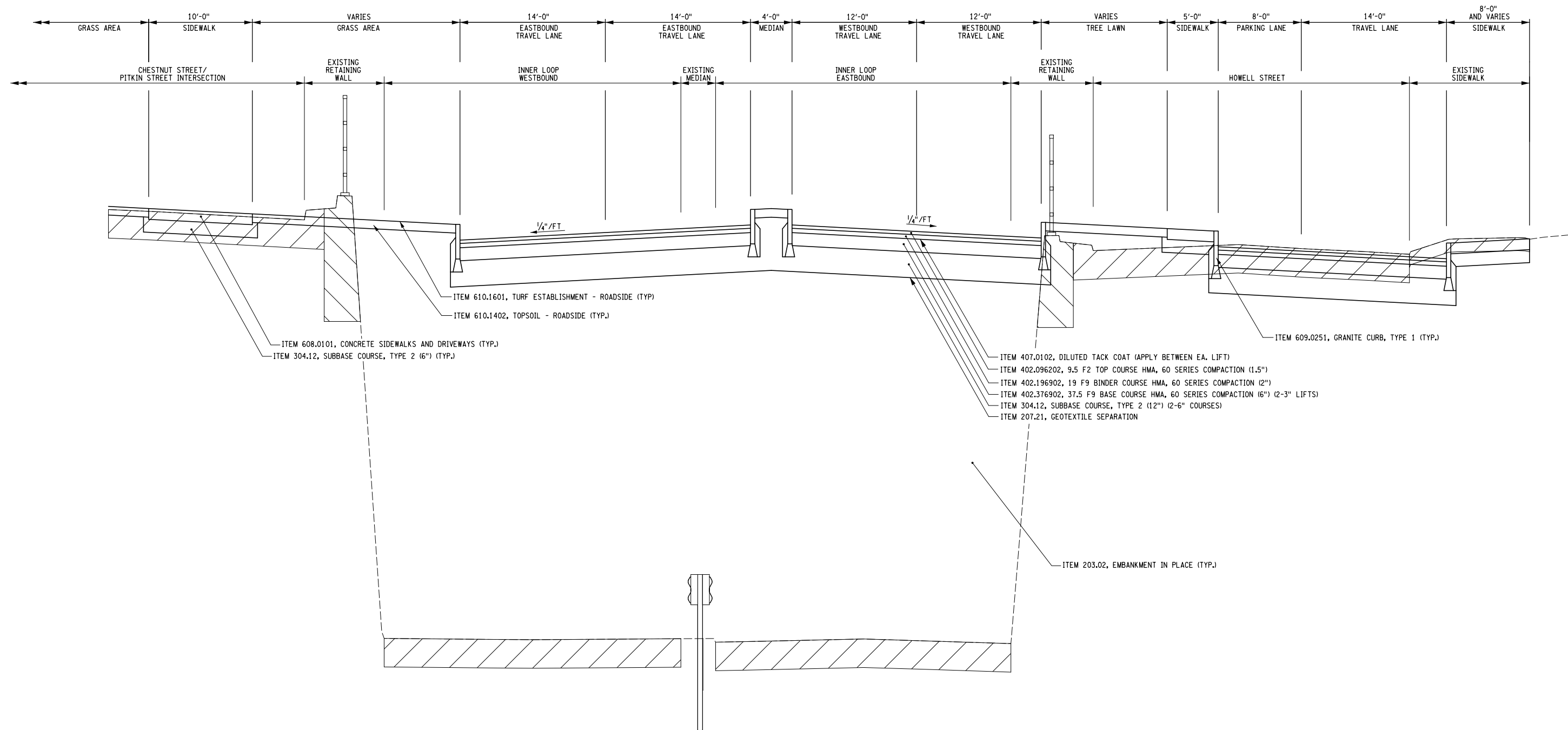
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Revision	0

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Project No.	192500295
Scale	N.T.S.
Drawing No.	TS-3
Sheet	XXX of XXX
Revision	0



**TYPICAL SECTION**  
 INNER LOOP  
 4 LANE DIVIDED HIGHWAY WITH SEPARATE PARKING  
 STA. WB 13+30 TO STA. WB 20+00  
 N.T.S.

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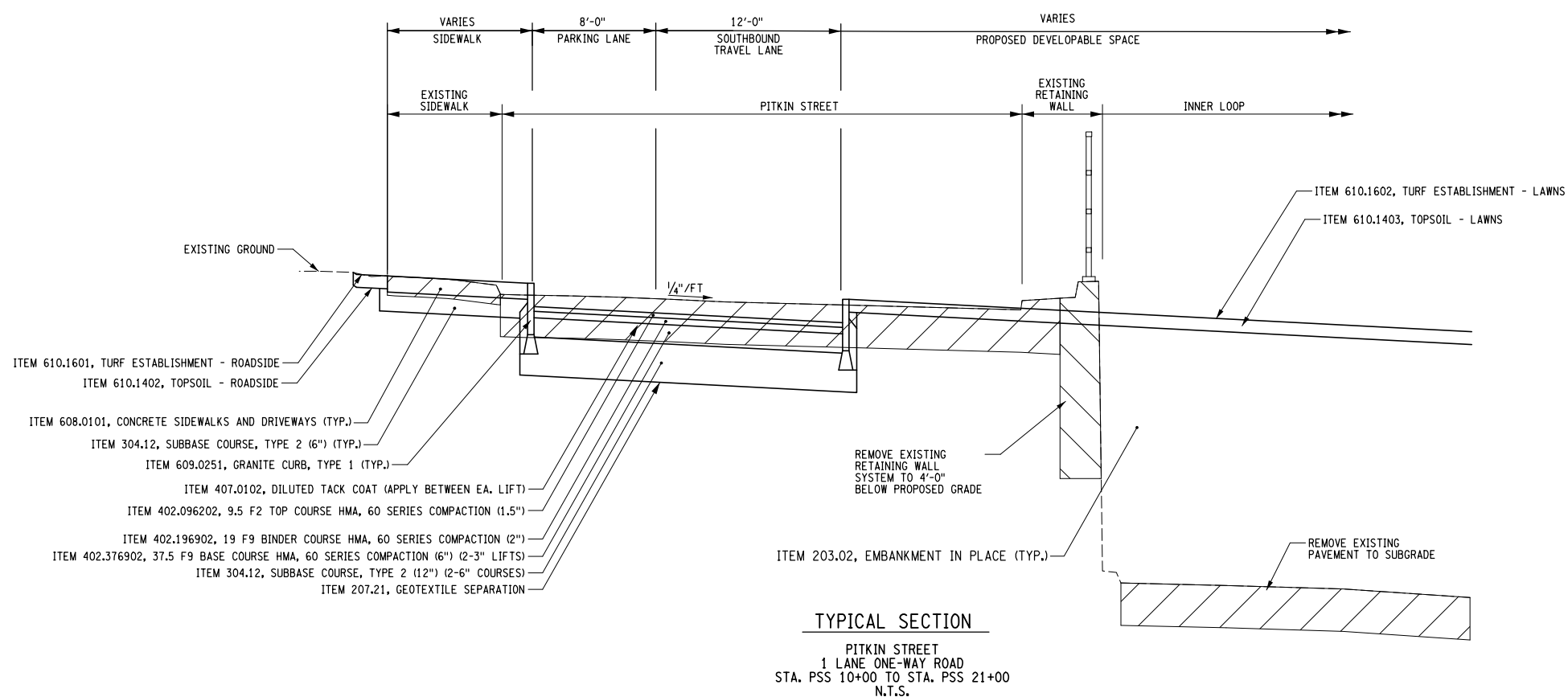
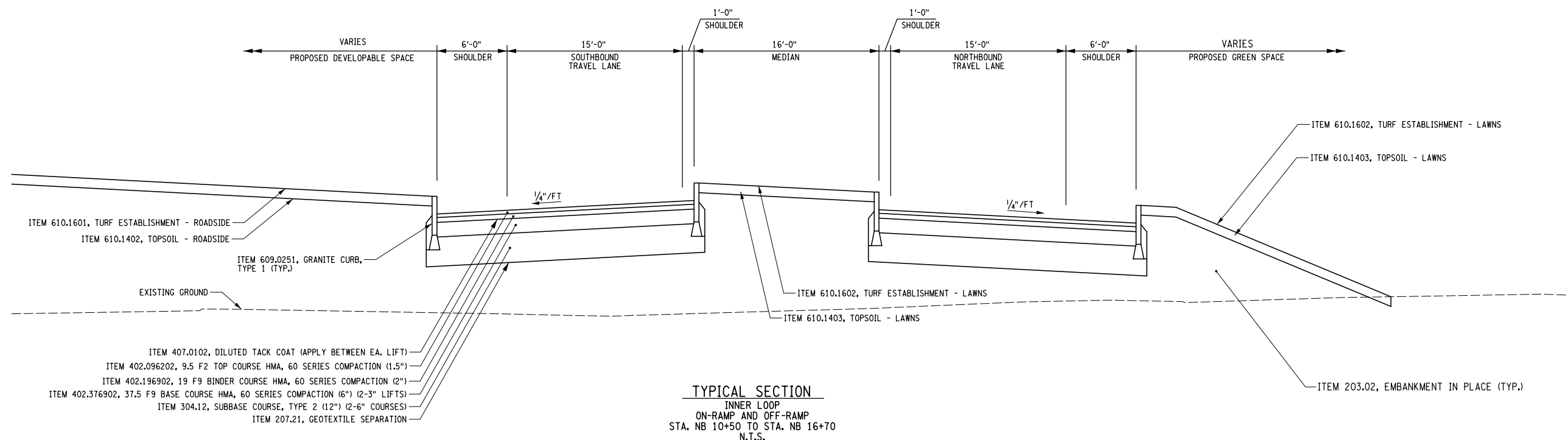
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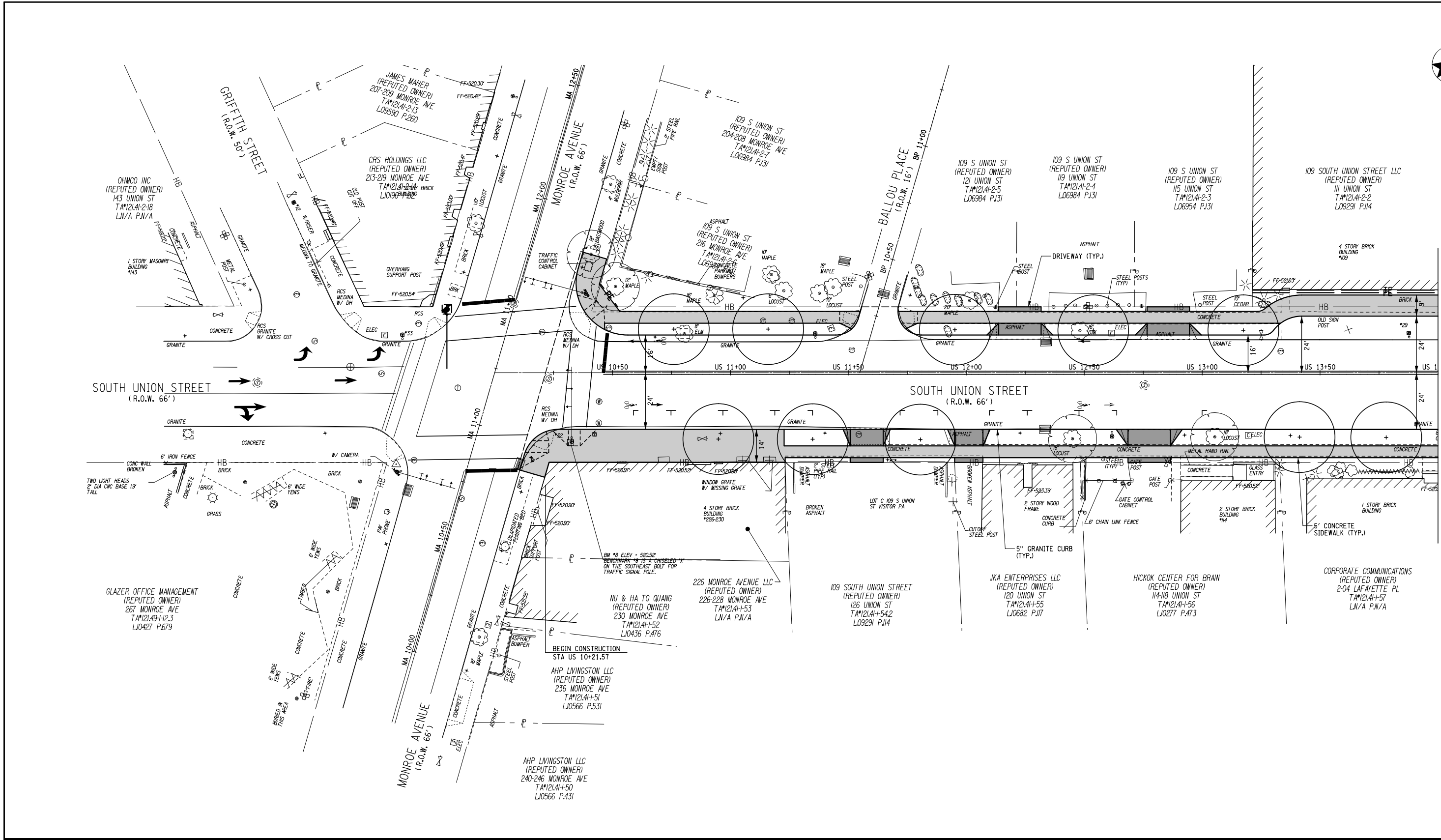
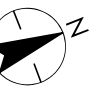
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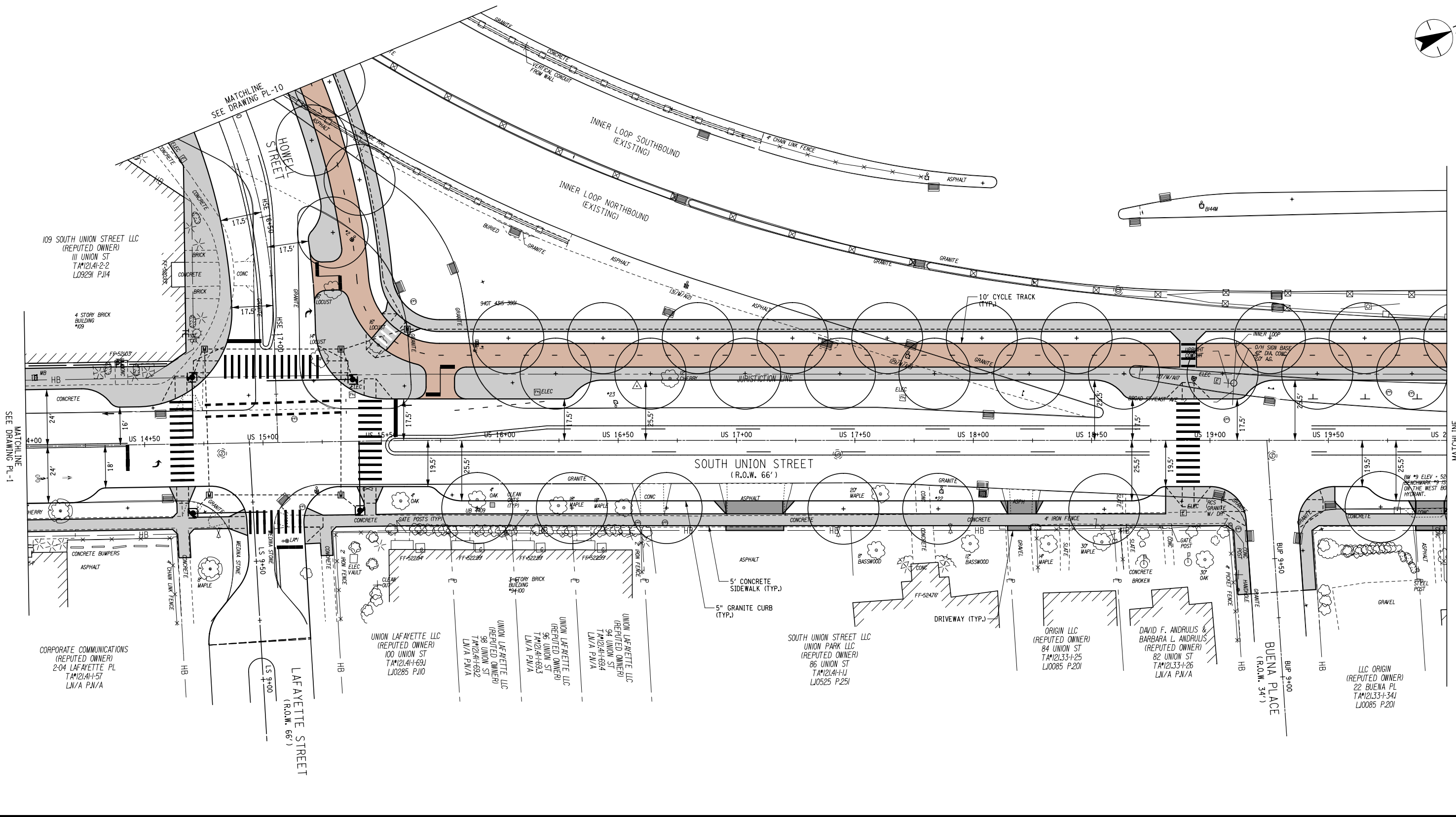
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Revision	0

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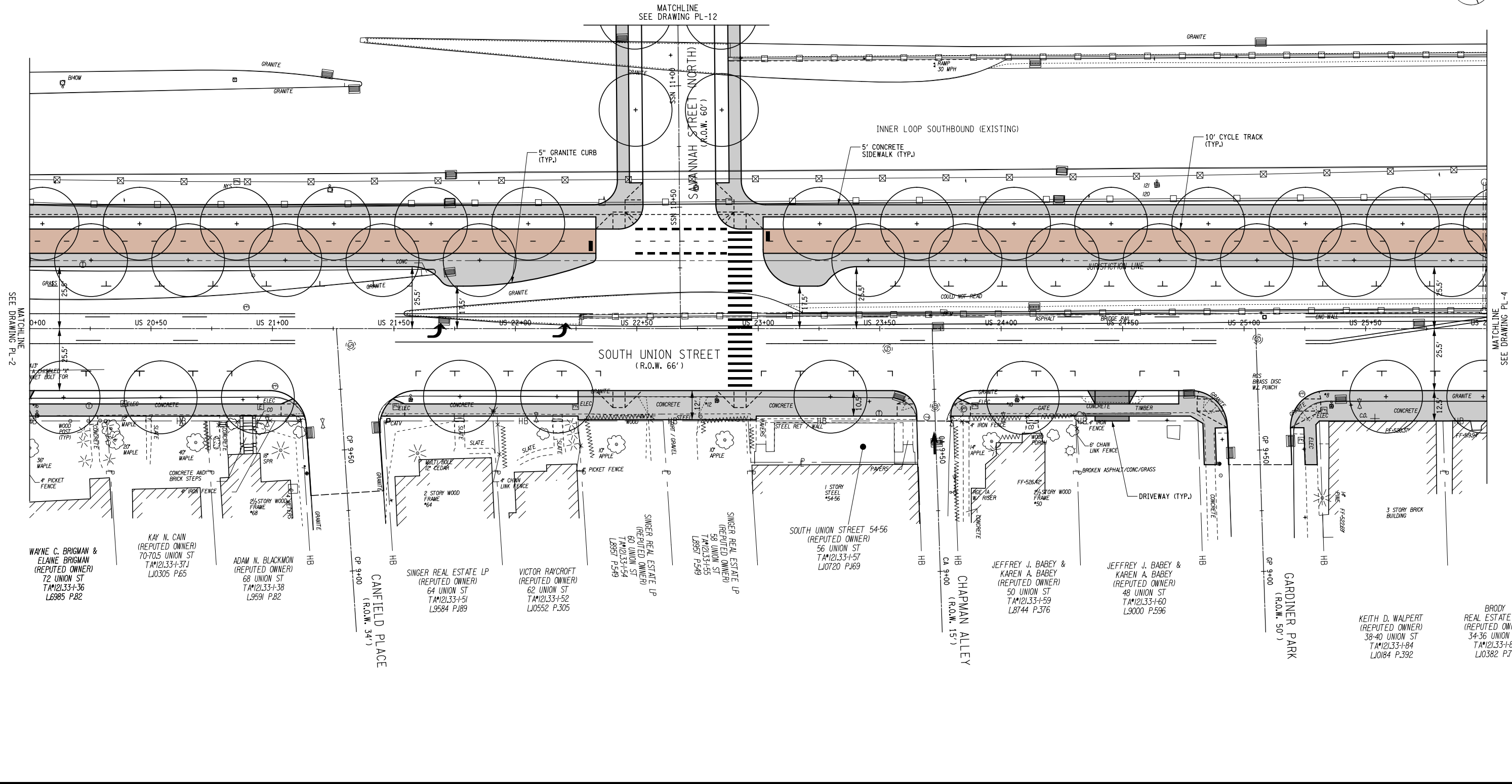
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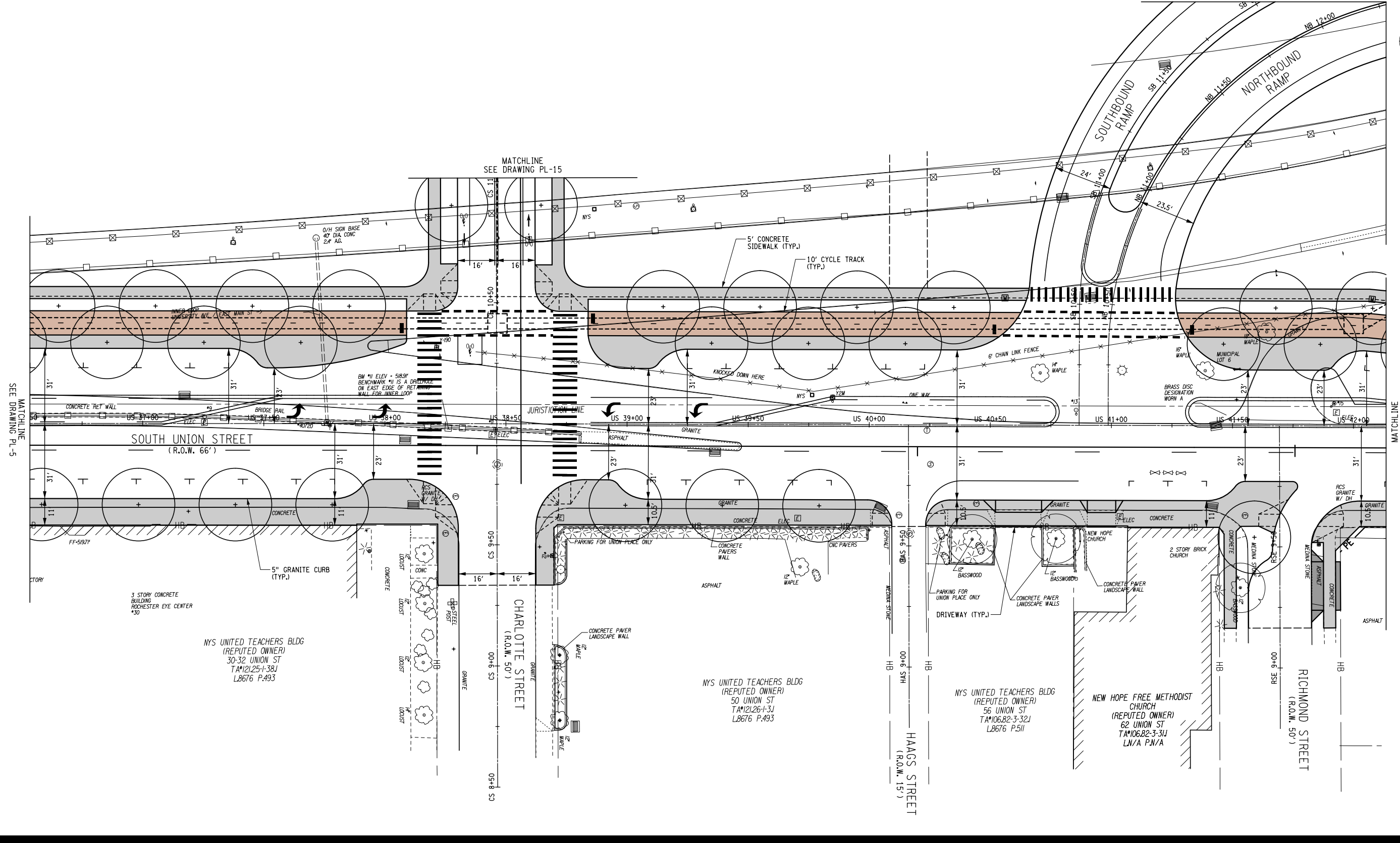


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MATCHLINE  
SEE DRAWING PL-5

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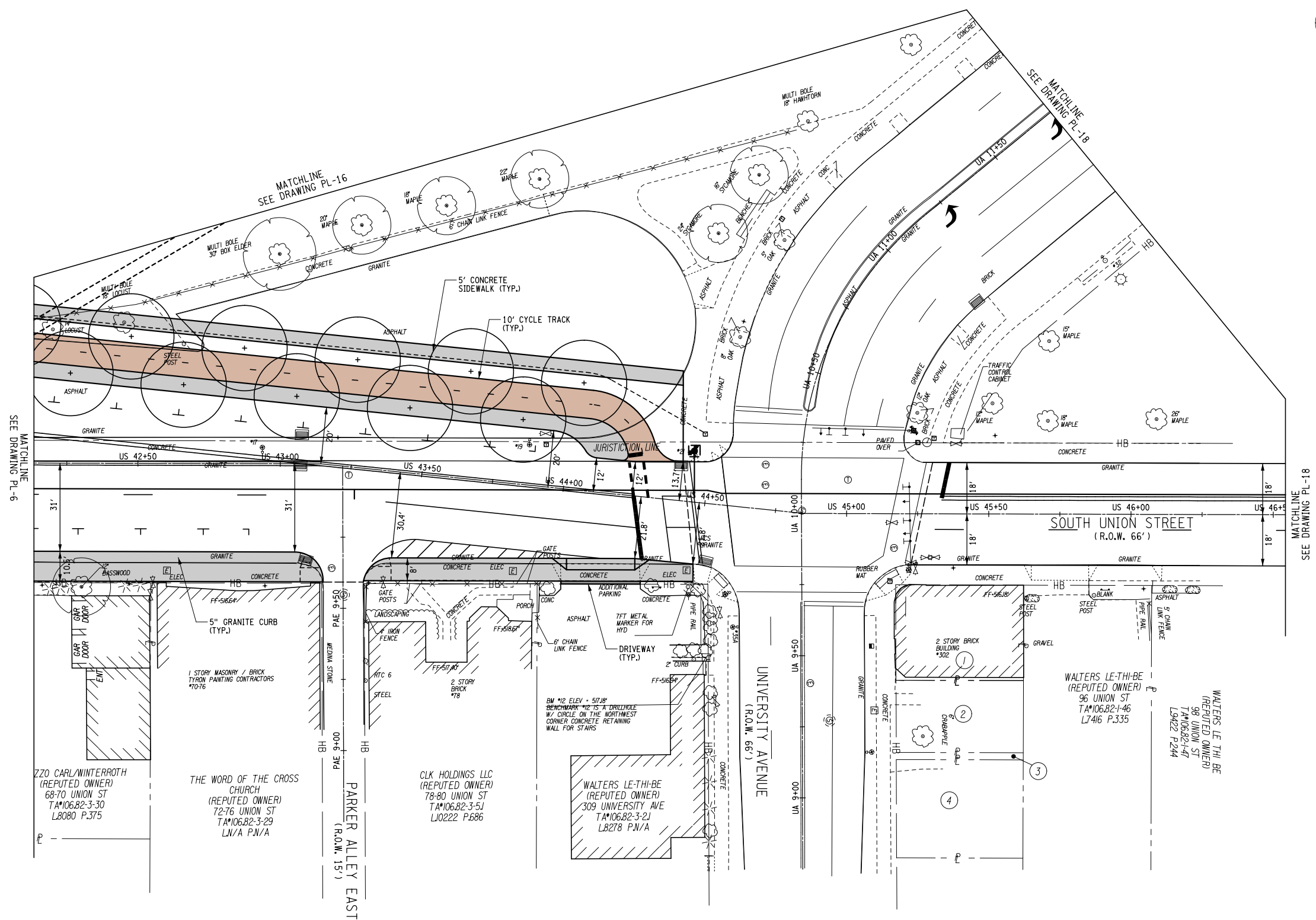
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SOUTH UNION STREET

Project No. 192500295  
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Scale 1' = 20'  
Sheet XXX of XXX

Revision 0

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 Plotted By: somester



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 Plotted By: somelster

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 S. CLINTON STREET TO EAST MAIN STREET  
 P.C. XXXXX, P.I.N. 4940.17  
 ROCHESTER, NEW YORK

File Name: XXX-XXX-XXX  
 XXX Dwn. XXX Chkd. XXX Dsgn. 13.11.30 YY.MM.DD

**Title**  
 GENERAL PLAN  
 SOUTH UNION STREET

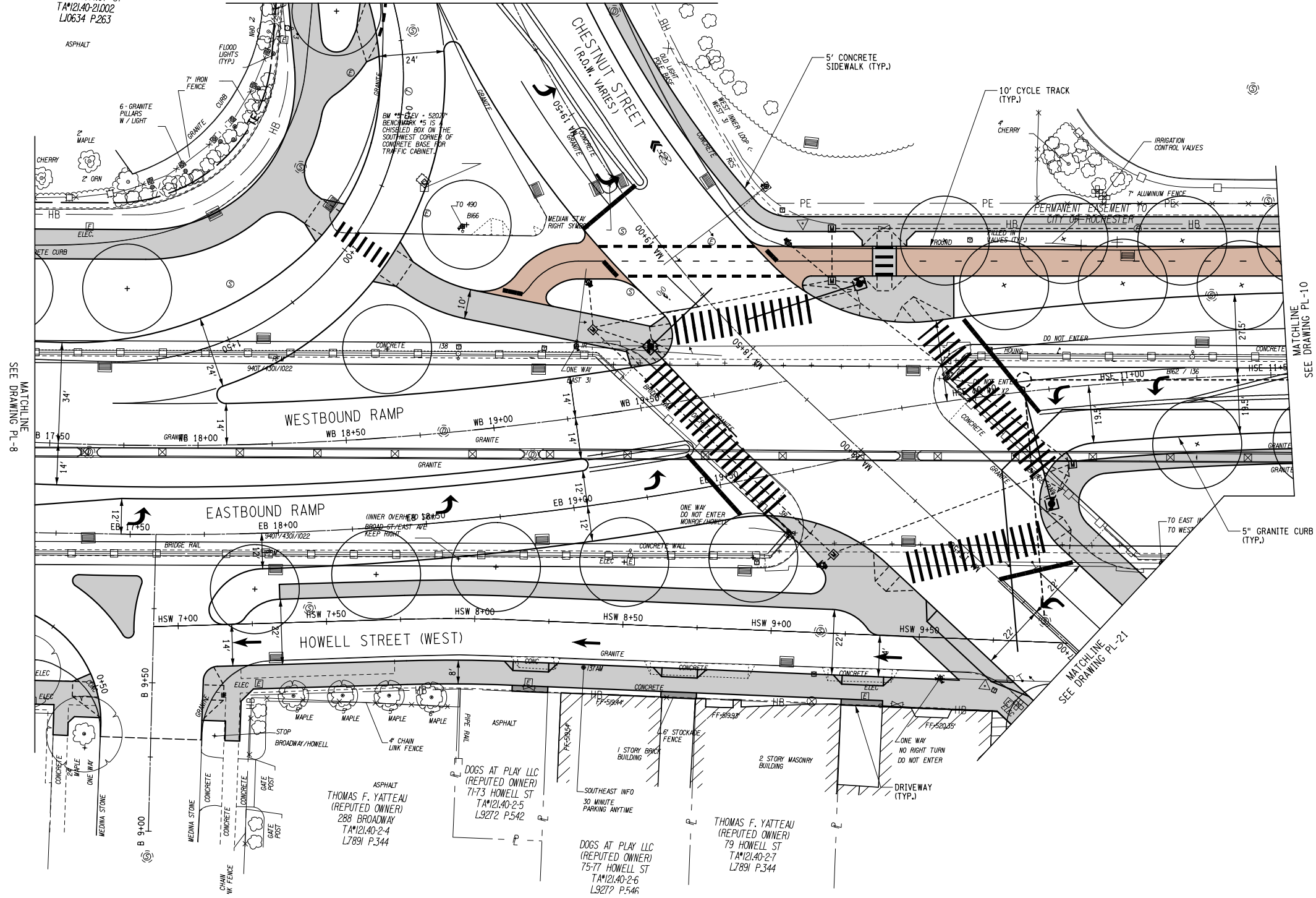
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**Scale** 1" = 20'  
**Drawing No.** PL-7  
**Sheet** XXX of XXX  
**Revision** 0





ESL FEDERAL CREDIT UNION  
(REPUTED OWNER)  
255 CHESTNUT ST  
TA\*121.40-21.002  
L10634 P.263

MATCHLINE  
SEE DRAWING PL-20



SEE DRAWING PL-8  
MATCHLINE

MATCHLINE  
SEE DRAWING PL-10

MATCHLINE  
SEE DRAWING PL-21

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ROCHESTER, NEW YORK

Title

GENERAL PLAN

Project No.  
192500295

Scale  
1" = 20'

Drawing No.

Sheet

Revision

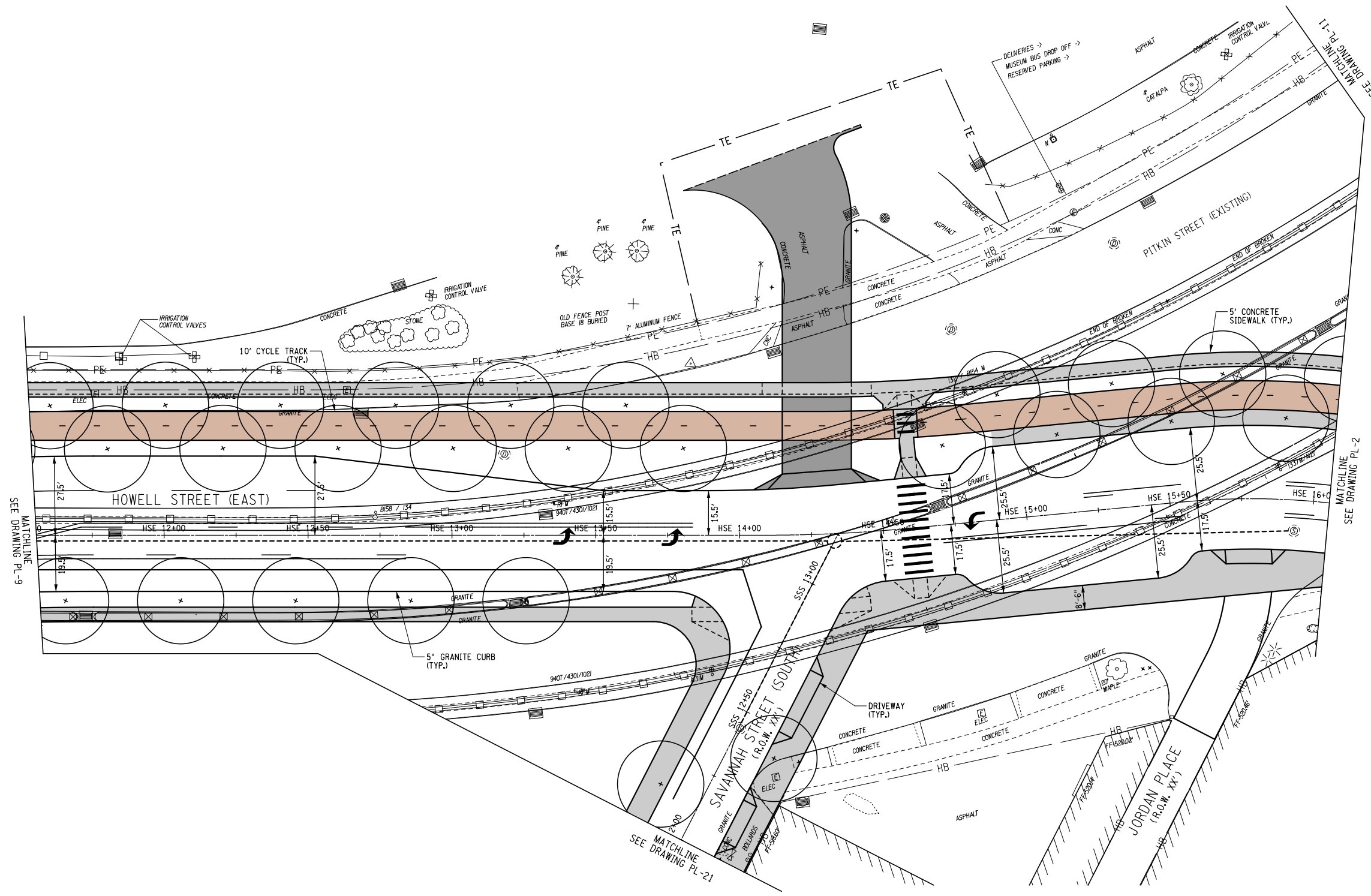
PL-9

XXX of XXX

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P.C. XXXXX, P.I.N. 4940.17  
ROCHESTER, NEW YORK

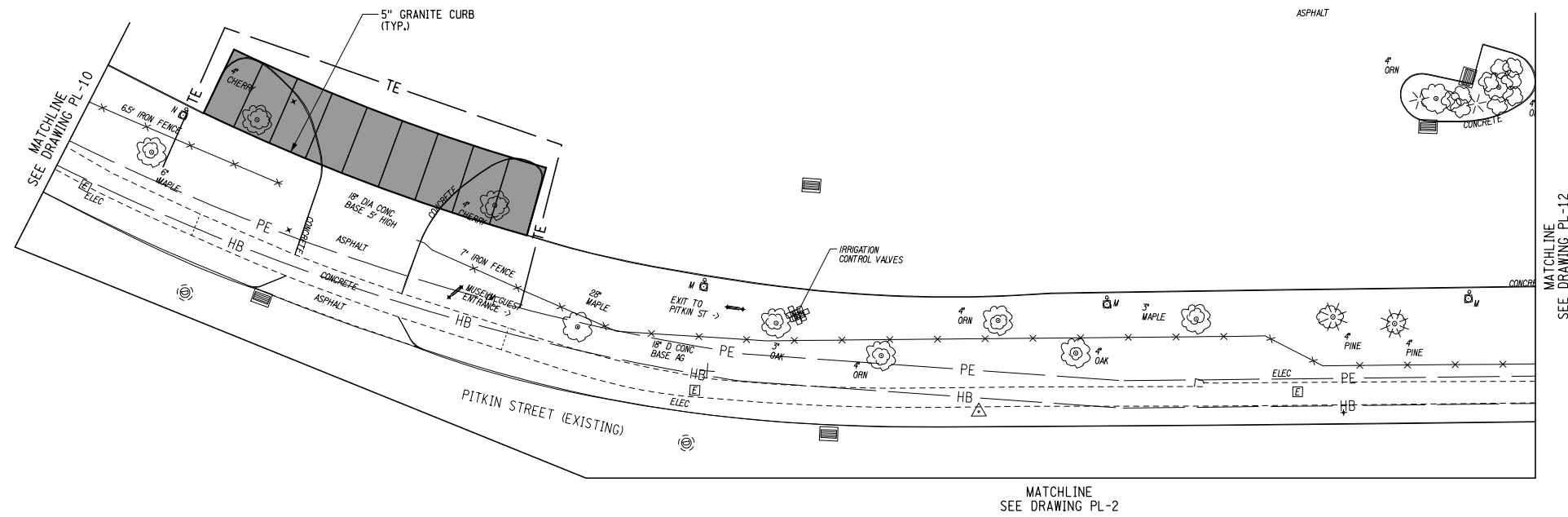
Title  
GENERAL PLAN

Project No. 192500295 Scale 1' = 20'


Drawing No. PL-10 Sheet XXX of XXX Revision 0

Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

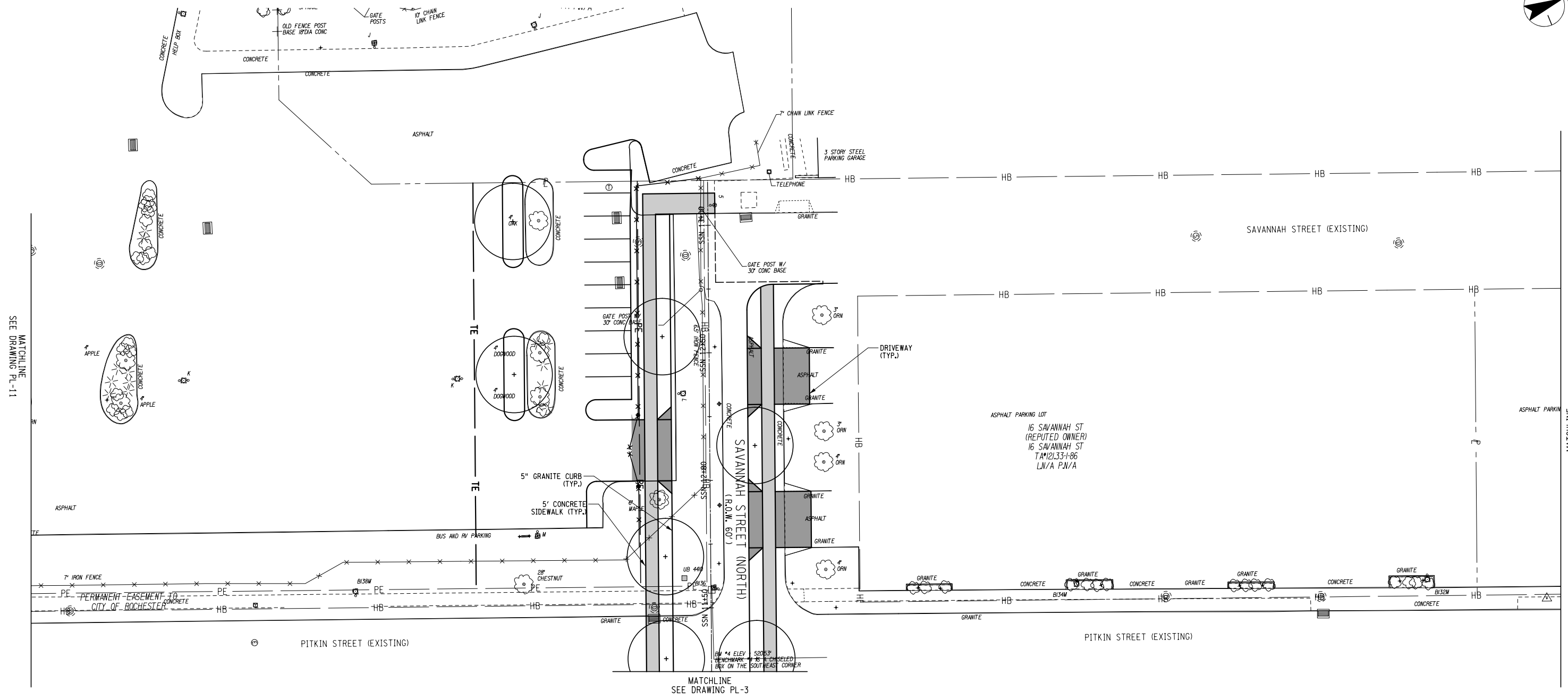
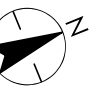
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 Plotted By: sommer



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MATCHLINE  
SEE DRAWING PL-11

MATCHLINE  
SEE DRAWING PL-13

MATCHLINE  
SEE DRAWING PL-3

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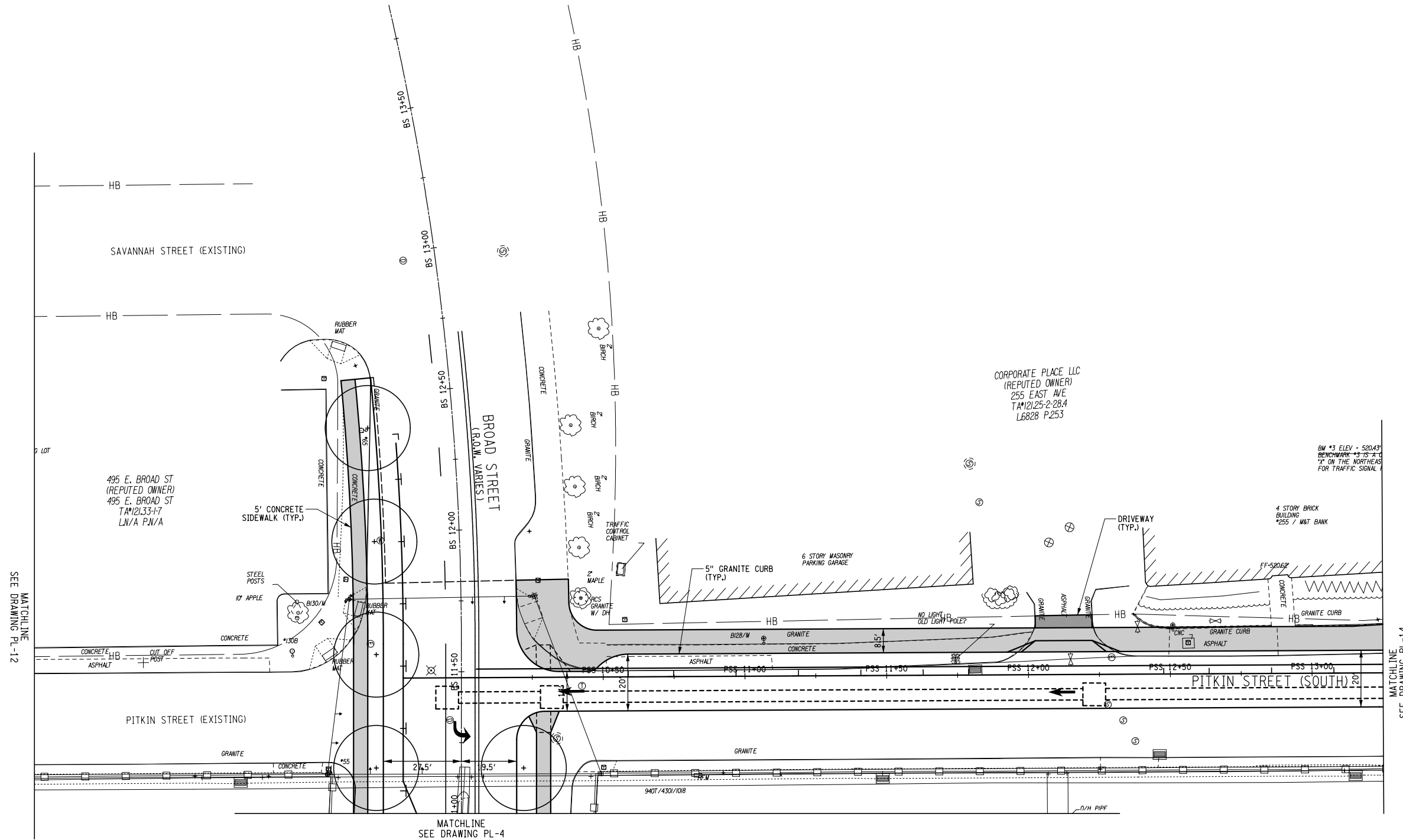
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GENERAL PLAN  
PITKIN STREET  
Project No. 192500295  
Scale 1" = 20'  
Drawing No. XXX of XXX  
Revision 0

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

File Name: XXX-XXX-XXX	XXX Dwn.	XXX Chkd.	XXX Dsgn.	13.11.30 YY.MM.DD
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 Plotted By: sommer



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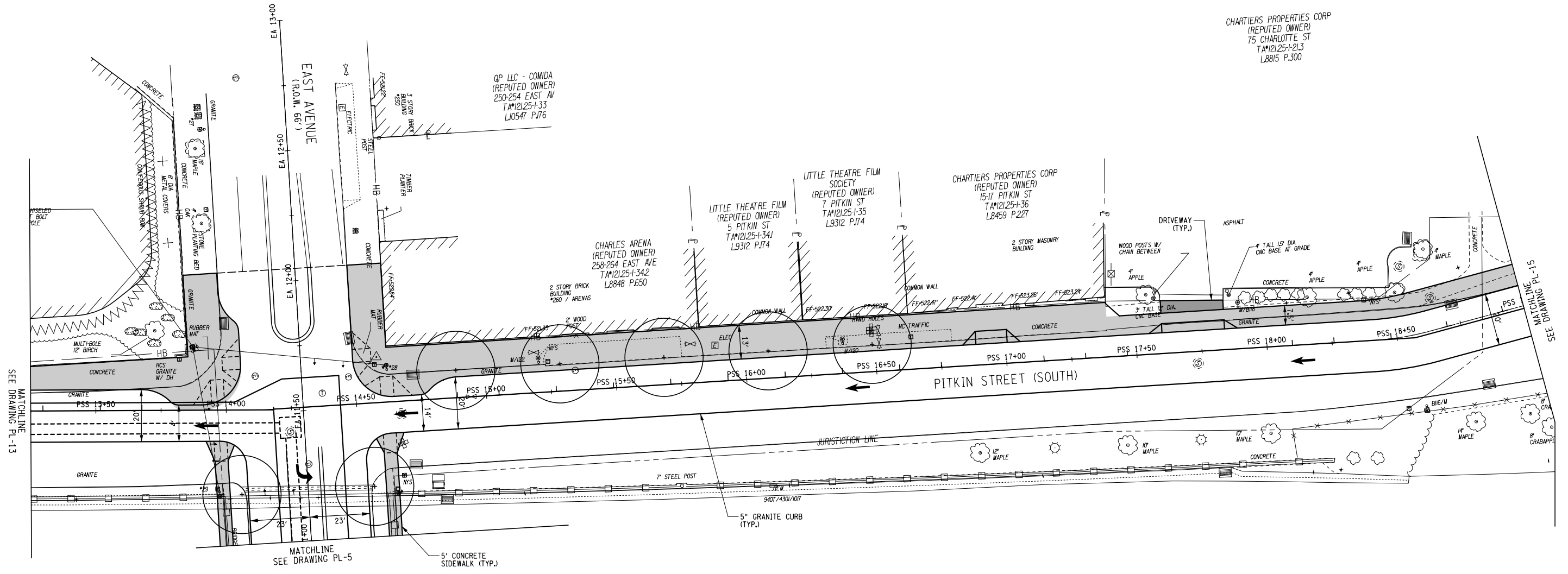


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 P.C. XXXXX, P.I.N. 4940.17  
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Title	
GENERAL PLAN PITKIN STREET	
Project No. 192500295	Scale 1" = 20'
Drawing No. PL-13	Sheet XXX of XXX
	Revision 0



CHARTIERS PROPERTIES CORP  
(REPUTED OWNER)  
75 CHARLOTTE ST  
TA#12125+21.3  
LB815 P.300



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Plotted By: sommer

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Revision	By	Appd.	YY.MM.DD

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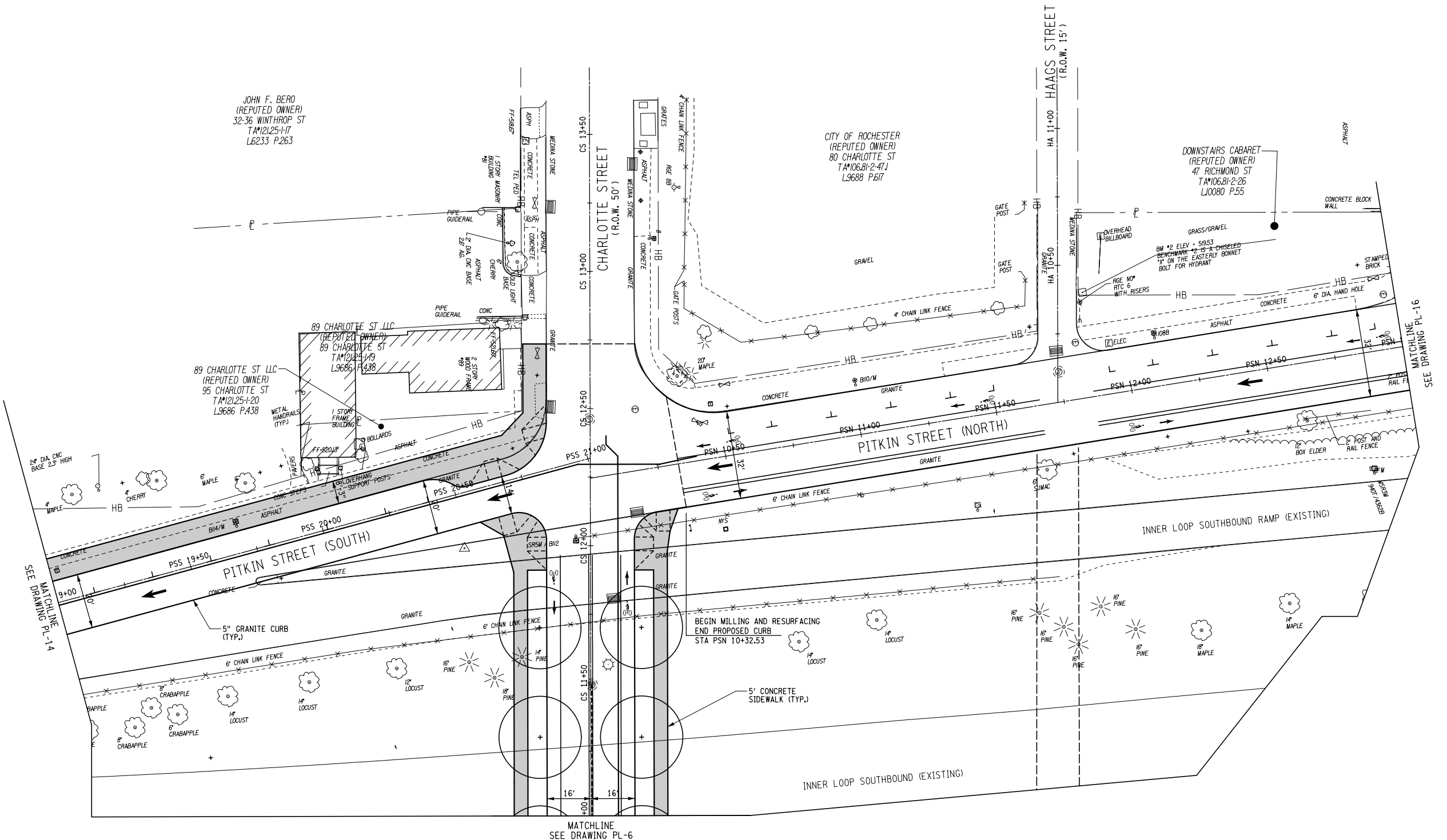
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File Name:	XXX-XXX-XXX	XXX	XXX	XXX	13.11.30
		Dwn.	Chkd.	Dsgn.	YY.MM.DD

Title		
GENERAL PLAN PITKIN STREET		
Project No. 192500295	Scale 1' = 20'	Revision
Drawing No. PL-14	Sheet XXX of XXX	0



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32-36 WINTHROP ST  
TA12125-117  
L6233 P.263

CITY OF ROCHESTER  
(REPUTED OWNER)  
80 CHARLOTTE ST  
TA106.81-2-47J  
L9688 P.617

DOWNSTAIRS CABARET  
(REPUTED OWNER)  
47 RICHMOND ST  
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89 CHARLOTTE ST LLC  
(REPUTED OWNER)  
95 CHARLOTTE ST  
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L9686 P.438

89 CHARLOTTE ST LLC  
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89 CHARLOTTE ST  
TA12125-119  
L9686 P.438

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File Name: XXX-XXX-XXX  
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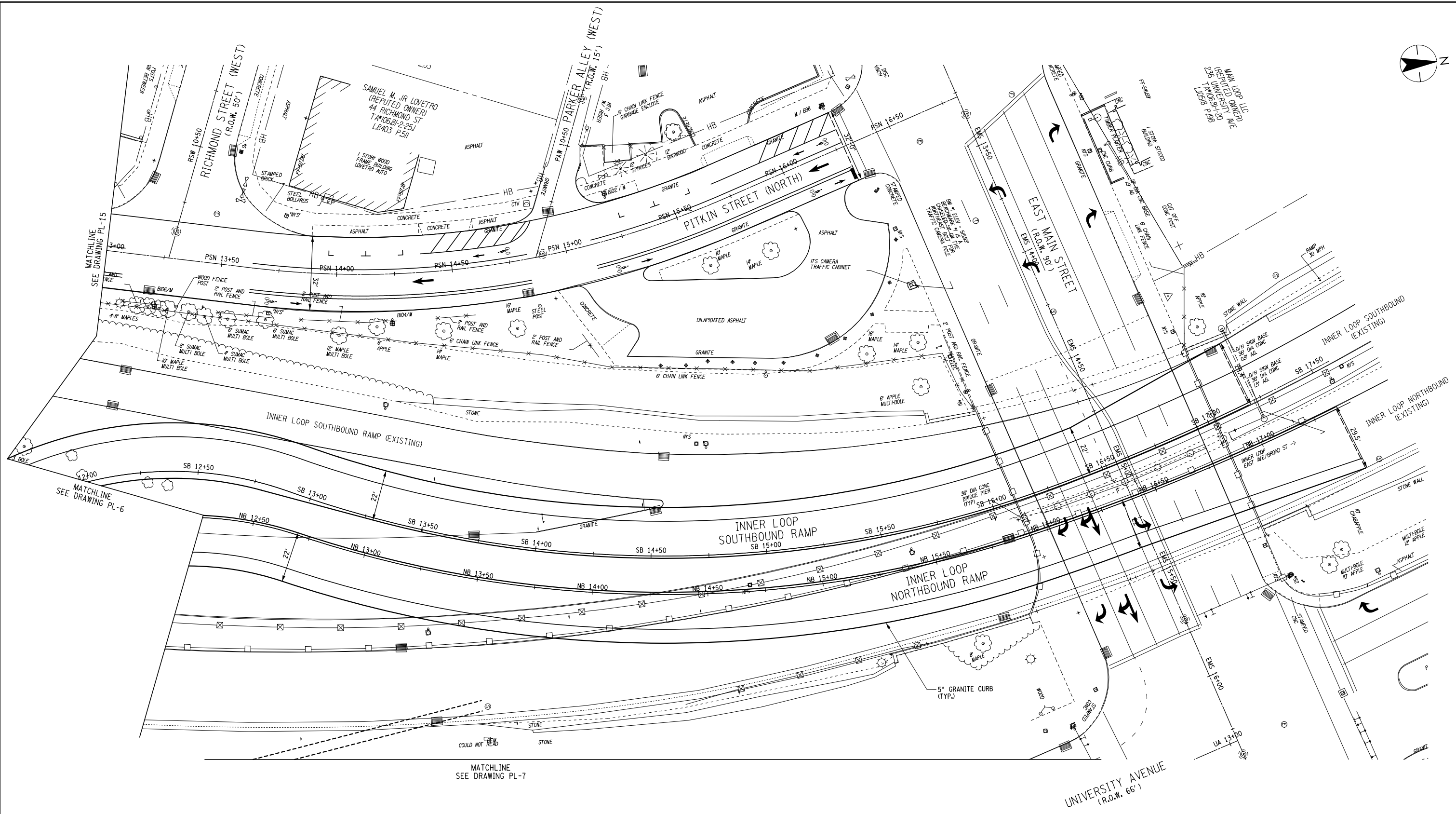
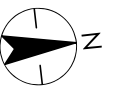
Title  
GENERAL PLAN  
PITKIN STREET

Project No. 192500295 Scale 1" = 20'

Drawing No. PL-15 Sheet XXX of XXX Revision 0

Designer: J. B. Bero  
 Date/Time: 1/8/2014 8:40:00 AM  
 Plotted By: sommer

ORIGINAL SHEET - ANKID HOME



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	ROCHESTER, NEW YORK
File Name:	XXX-XXX-XXX Dwn. Chkd. Dsgn. 13.11.30 YY.MM.DD

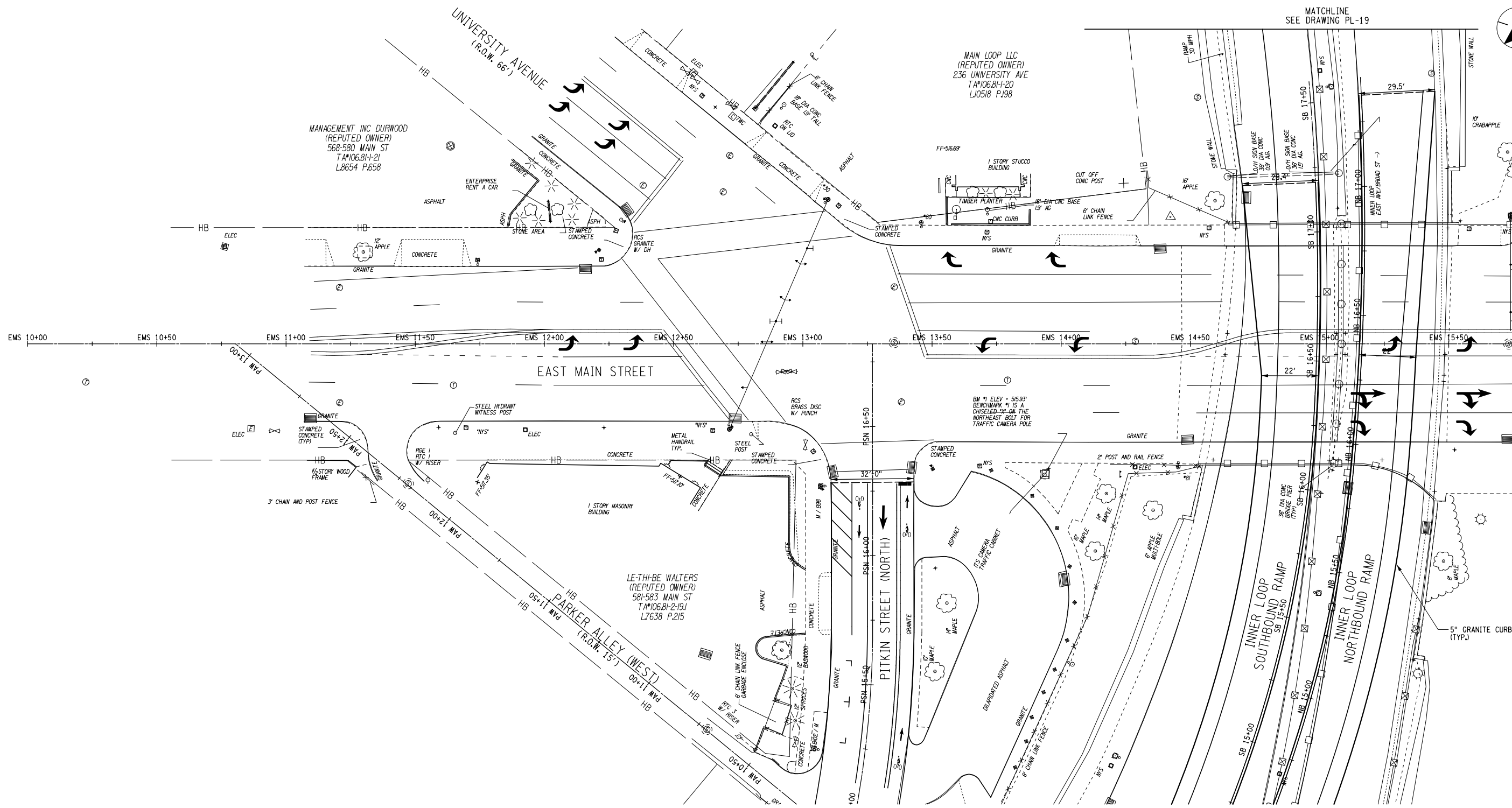
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Project No.	192500295	Scale	1' = 20'
Drawing No.	PL-16	Sheet	XXX of XXX
		Revision	0

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 Plotted By: somelster



MATCHLINE  
SEE DRAWING PL-19

MATCHLINE  
SEE DRAWING PL-18



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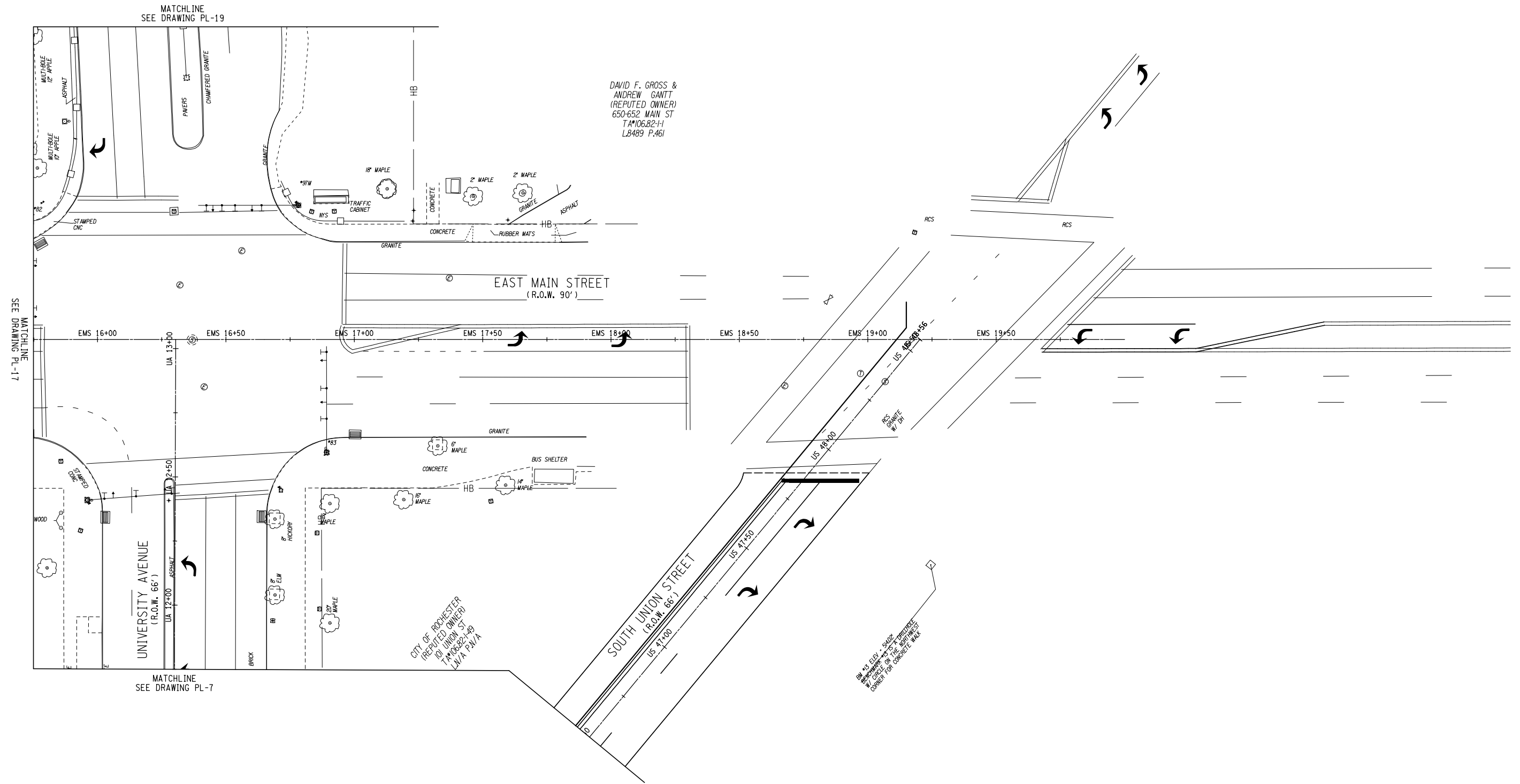
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GENERAL PLAN

Project No. 192500295 Scale 1" = 20'

Drawing No. PL-17 Sheet XXX of XXX Revision 0

Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

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 Date/Time: 1/8/2014 8:40:37 AM  
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ANDREW GANTT  
(REPUTED OWNER)  
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T/A106.82-H  
LB489 P.461

CITY OF ROCHESTER  
(REPUTED OWNER)  
101 UNION ST  
T/A106.82-H  
L/A P.M.7A

BY: J.S. ELDY, SDBCK  
PERMITS AND STANDARDS SECTION  
IN ACCORDANCE WITH THE CITY OF ROCHESTER  
COMPLIANCE CODE ON THE DATE OF REVIEW  
DATE: 12/11/2018

Revision table with columns: Revision, By, Appd., Issued, YY.MM.DD.

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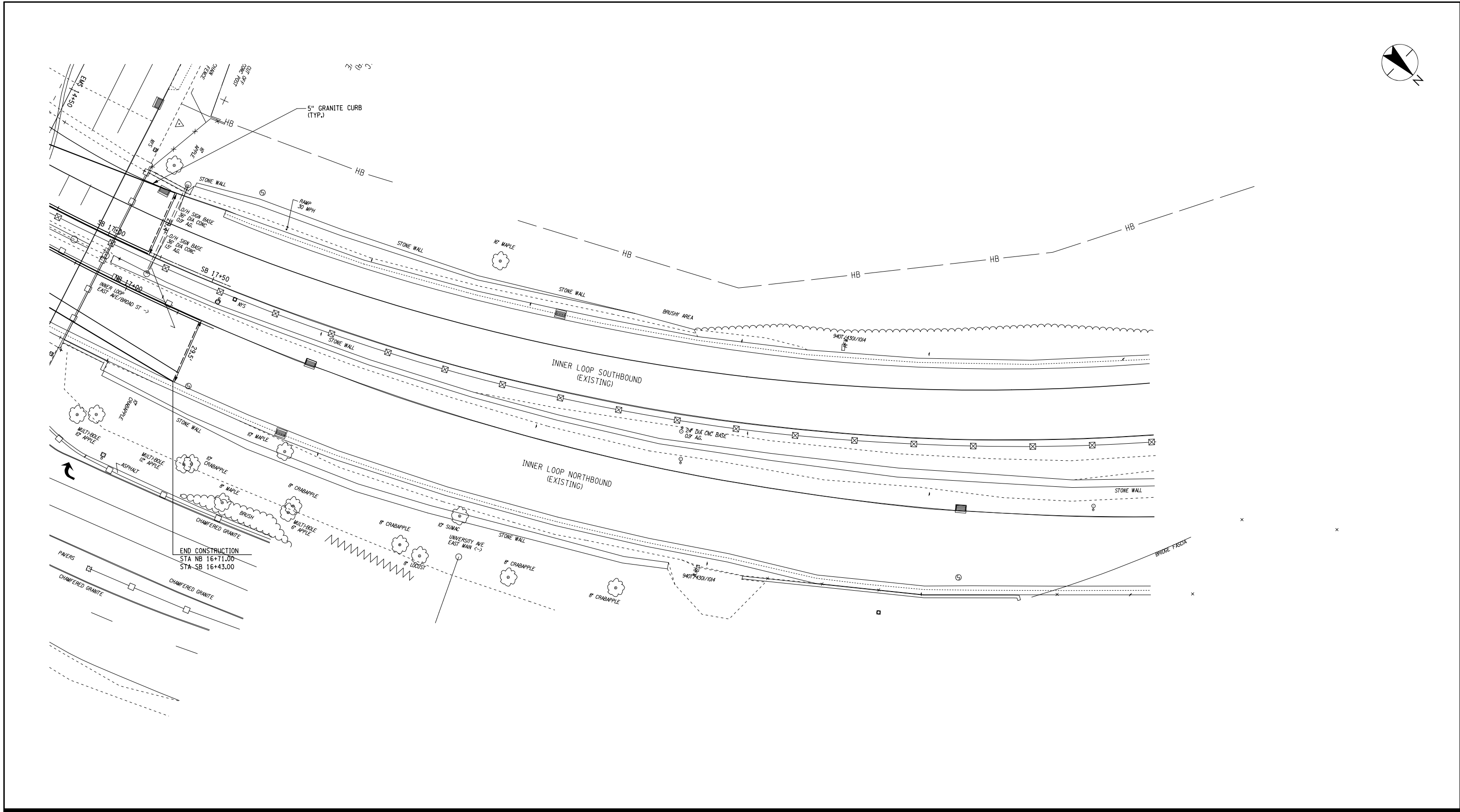
Client/Project  
CITY OF ROCHESTER  
INNER LOOP EAST TRANSFORMATION PROJECT  
S. CLINTON STREET TO EAST MAIN STREET  
P.C. XXXXX, P.I.N. 4940.17  
ROCHESTER, NEW YORK

Title  
GENERAL PLAN

Project No. 192500295 Scale 1" = 20'

Drawing No. PL-18 Sheet XXX of XXX Revision 0

Design File: \\s1025295\Trees\external\Initial\Drawings\Plan Set\PL-18.dgn  
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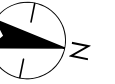
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File Name: XXX-XXX-XXX  
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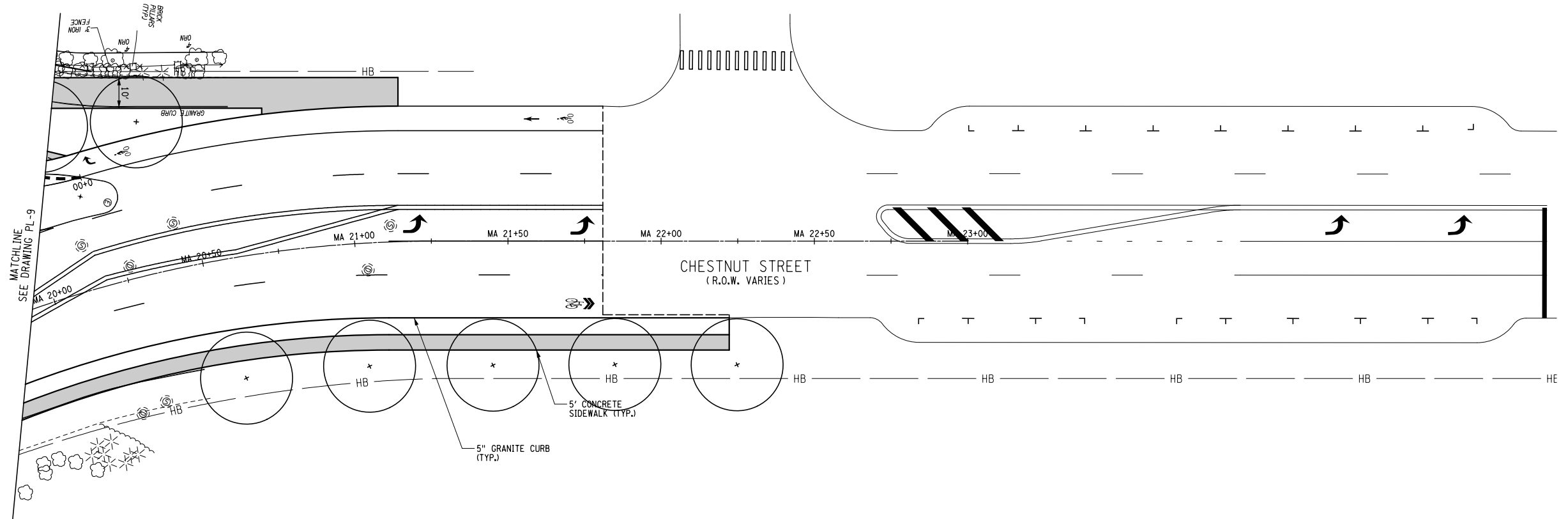
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Project No. 192500295	Scale 1' = 20'
Drawing No. PL-19	Sheet XXX of XXX
Revision 0	

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 Date Plotted: 1/8/2014 8:41:15 AM  
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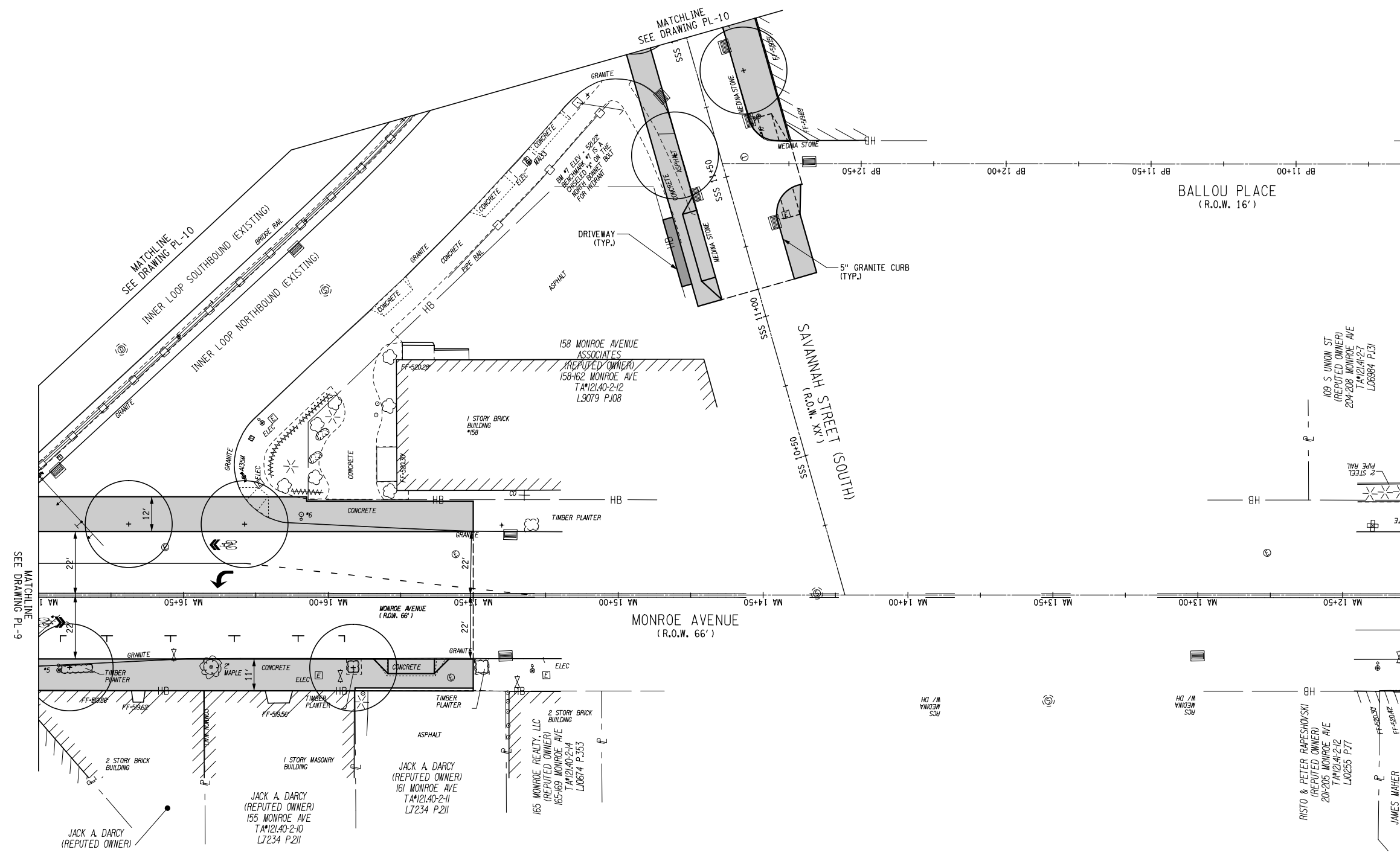
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Title		
GENERAL PLAN CHESTNUT STREET		
Project No. 192500295	Scale 1' = 20'	
Drawing No. PL-20	Sheet XXX of XXX	Revision 0

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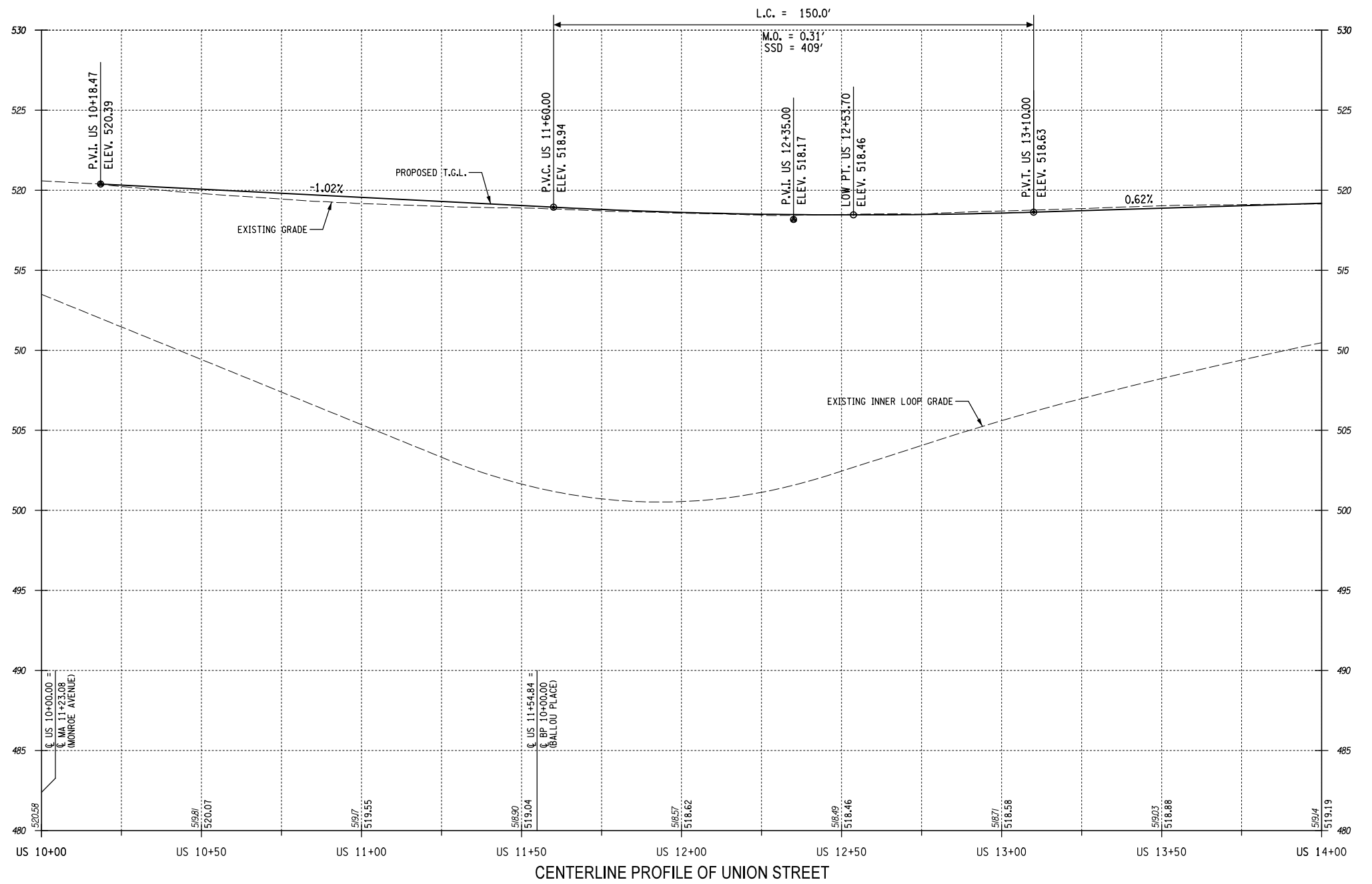
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Title		
GENERAL PLAN		
Project No.	Scale	
192500295	1' = 20'	
Drawing No.	Sheet	Revision
PL-21	XXX of XXX	0



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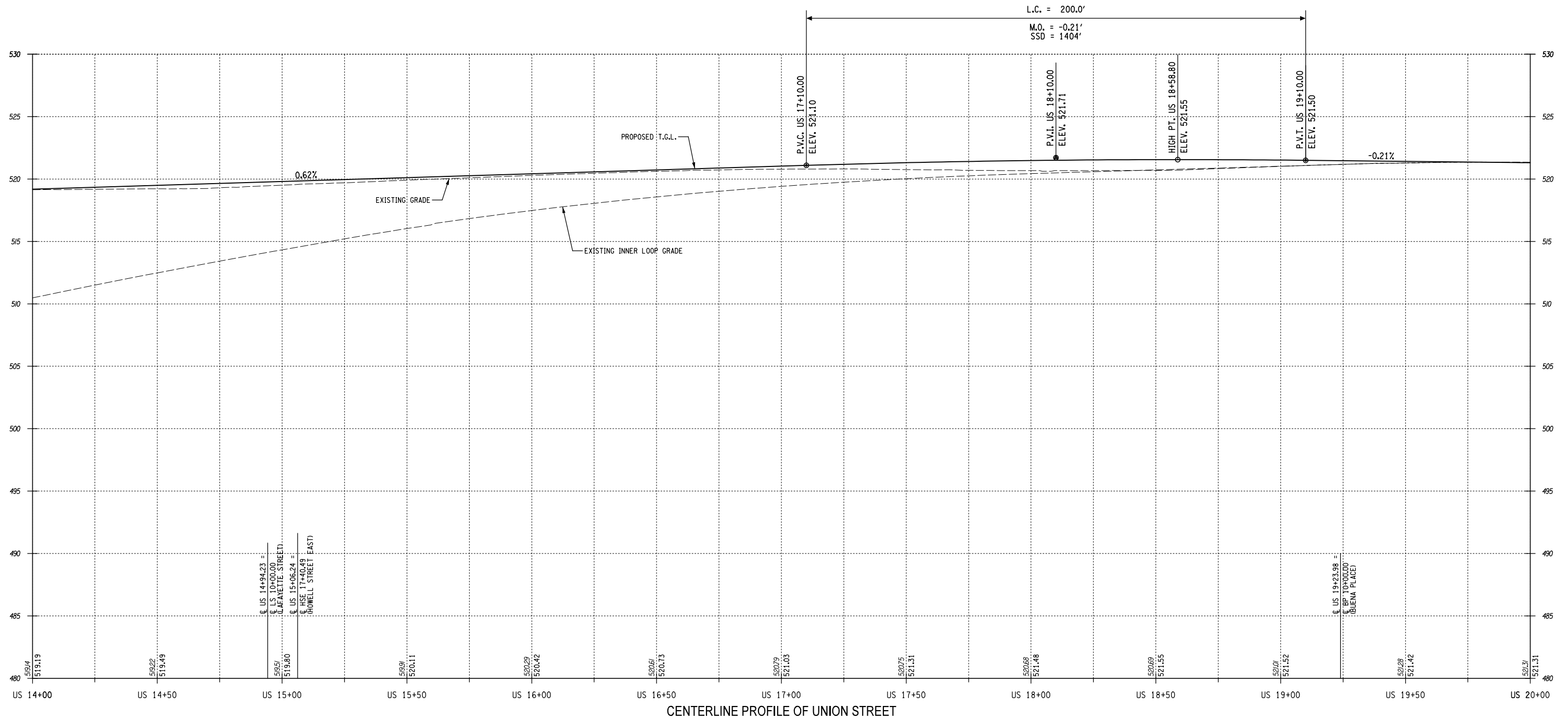
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Title  
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Project No. 192500295  
 Scale H: 1"=40' V: 1"=8'

Drawing No. PR-1  
 Sheet XXX of XXX  
 Revision 0



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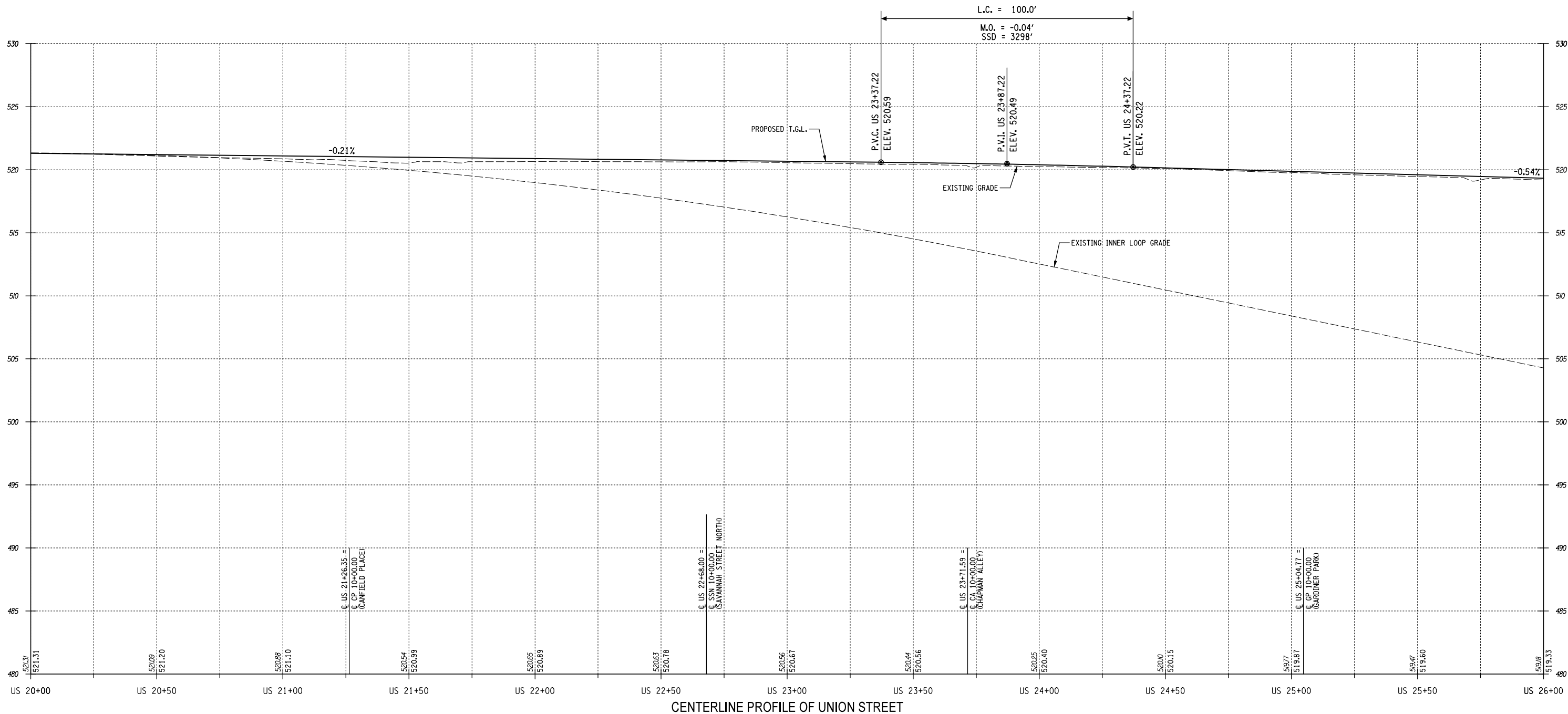
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Project No. 192500295  
 Scale H: 1"=40' V: 1"=8'

Drawing No. PR-2  
 Sheet XXX of XXX  
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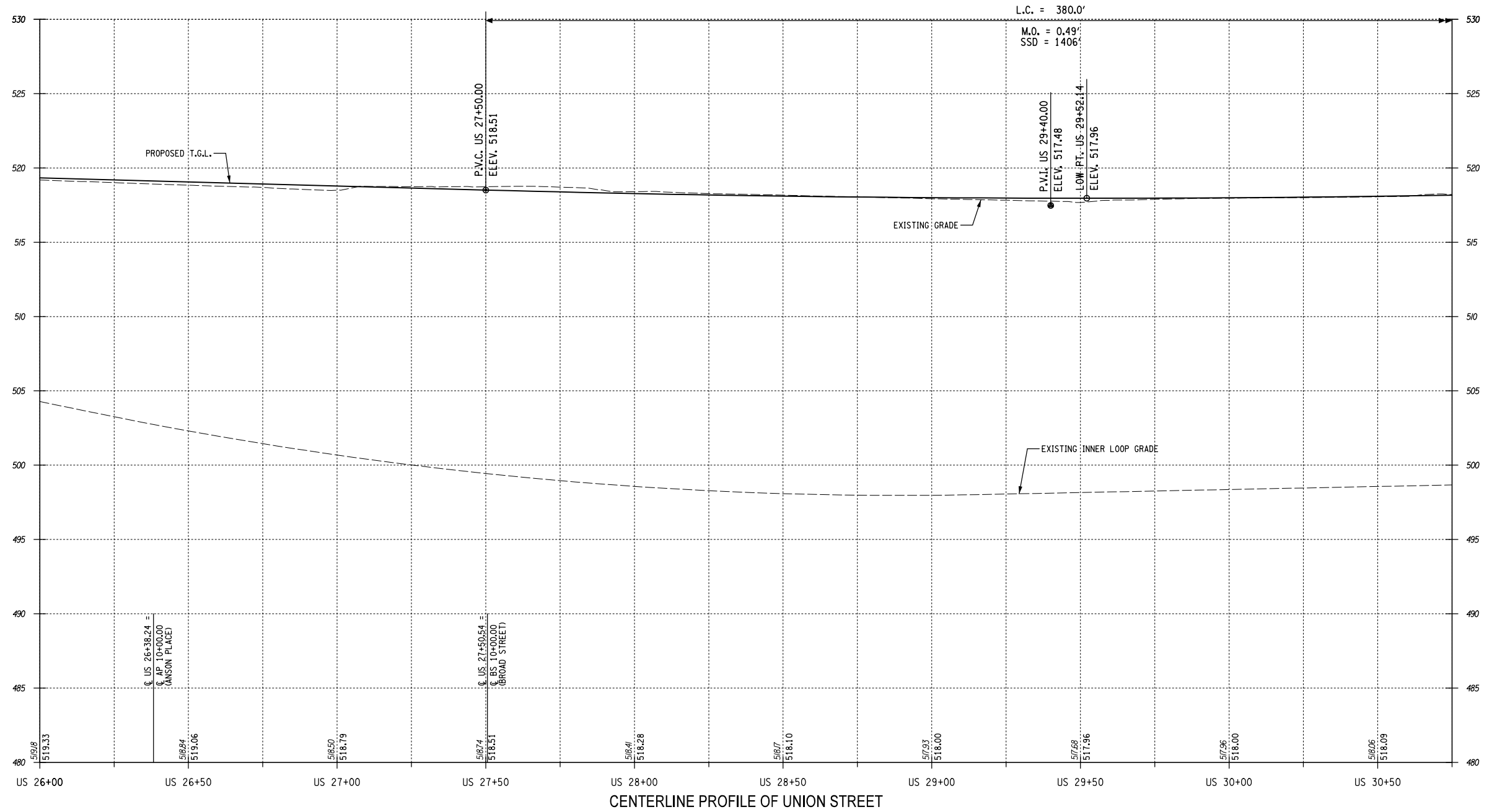
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<b>Title</b>		
GENERAL PROFILE		
<b>Project No.</b>	<b>Scale</b>	
192500295	H: 1"=40' V: 1"=8'	
<b>Drawing No.</b>	<b>Sheet</b>	<b>Revision</b>
PR-3	XXX of XXX	0



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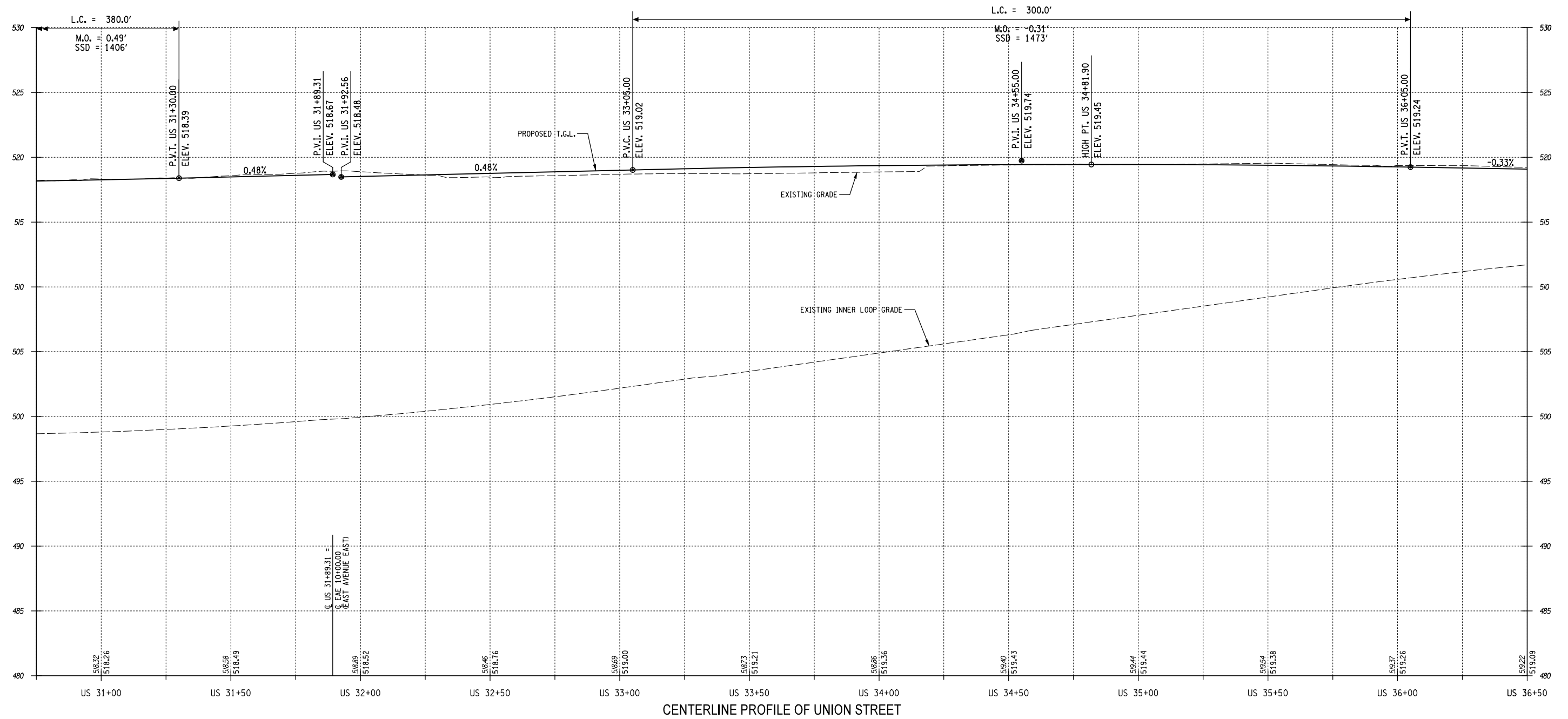
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Title  
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Project No. 192500295  
 Drawing No. **PR-4**

Scale: H: 1"=40' V: 1"=8'  
 Sheet: XXX of XXX  
 Revision: 0



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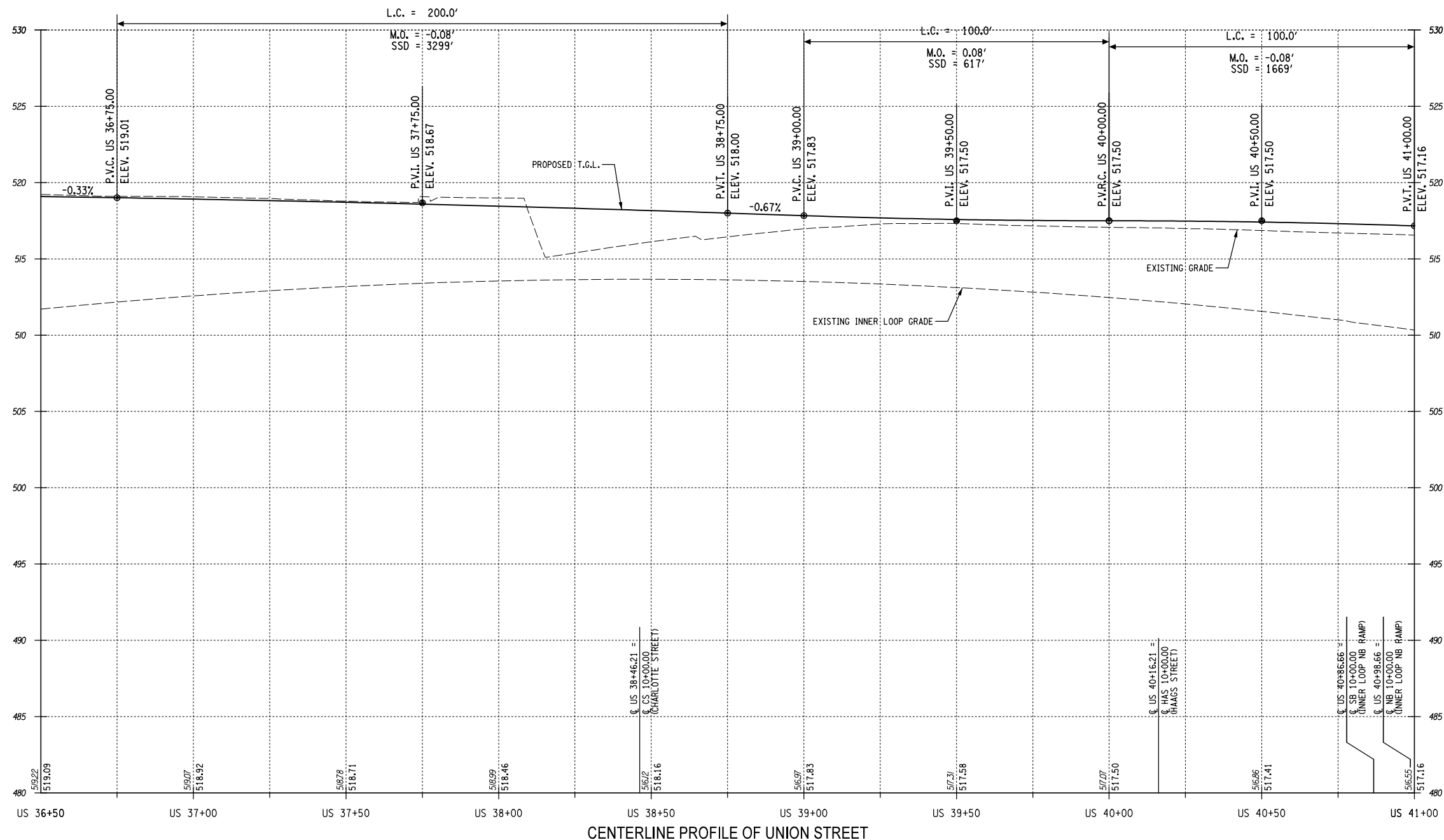
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Title  
 GENERAL PROFILE

Project No. 192500295  
 Drawing No. PR-5

Scale  
 H: 1"=40' V: 1"=8'

Sheet XXX of XXX  
 Revision 0



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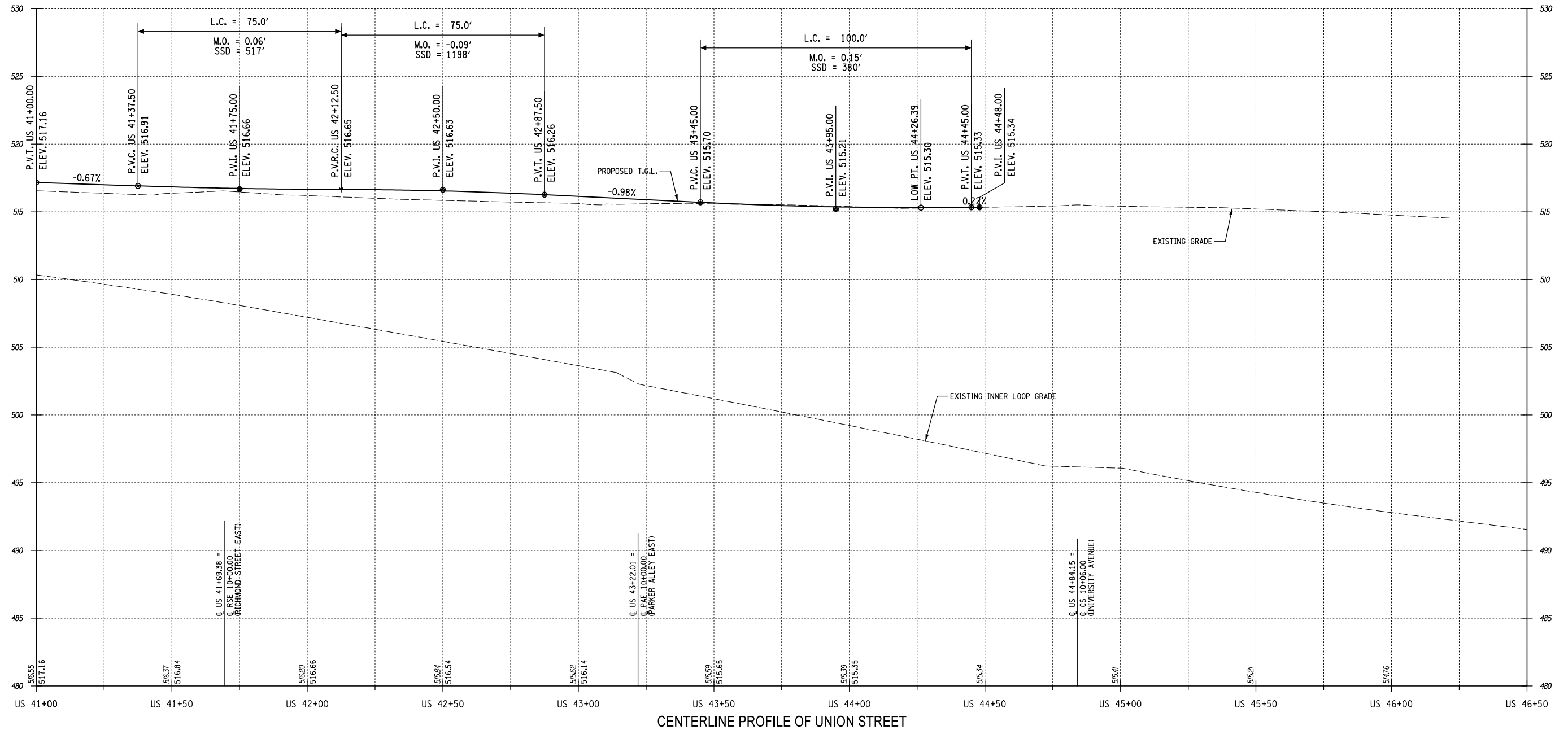
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Title		GENERAL PROFILE	
Project No.	Scale	H: 1"=40' V: 1"=8'	
192500295			
Drawing No.	Sheet	Revision	
PR-6	XXX of XXX	0	





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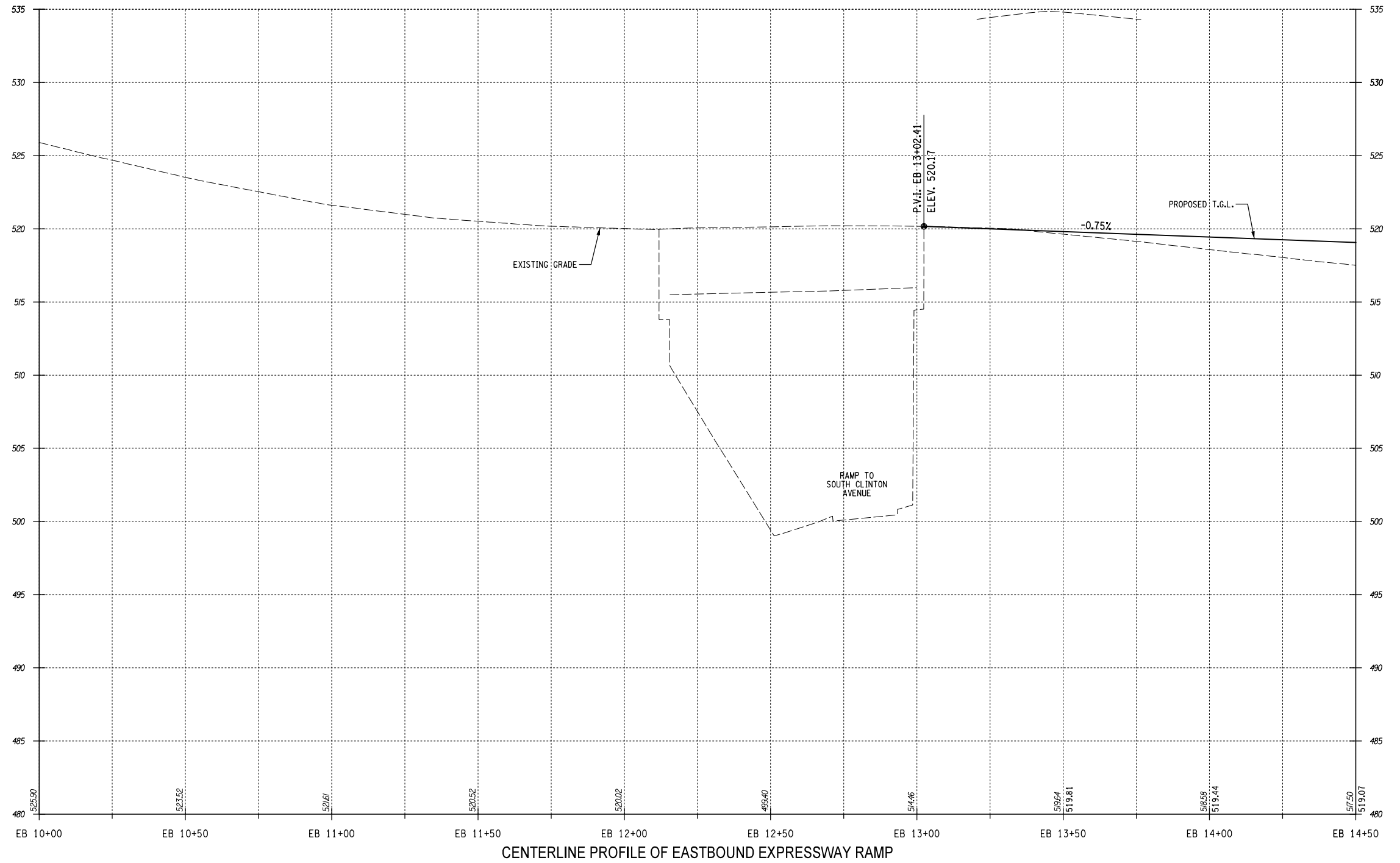
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Title  
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Project No. 192500295  
 Drawing No. PR-7

Scale  
 H: 1"=40' V: 1"=8'

Sheet XXX of XXX  
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CENTERLINE PROFILE OF EASTBOUND EXPRESSWAY RAMP

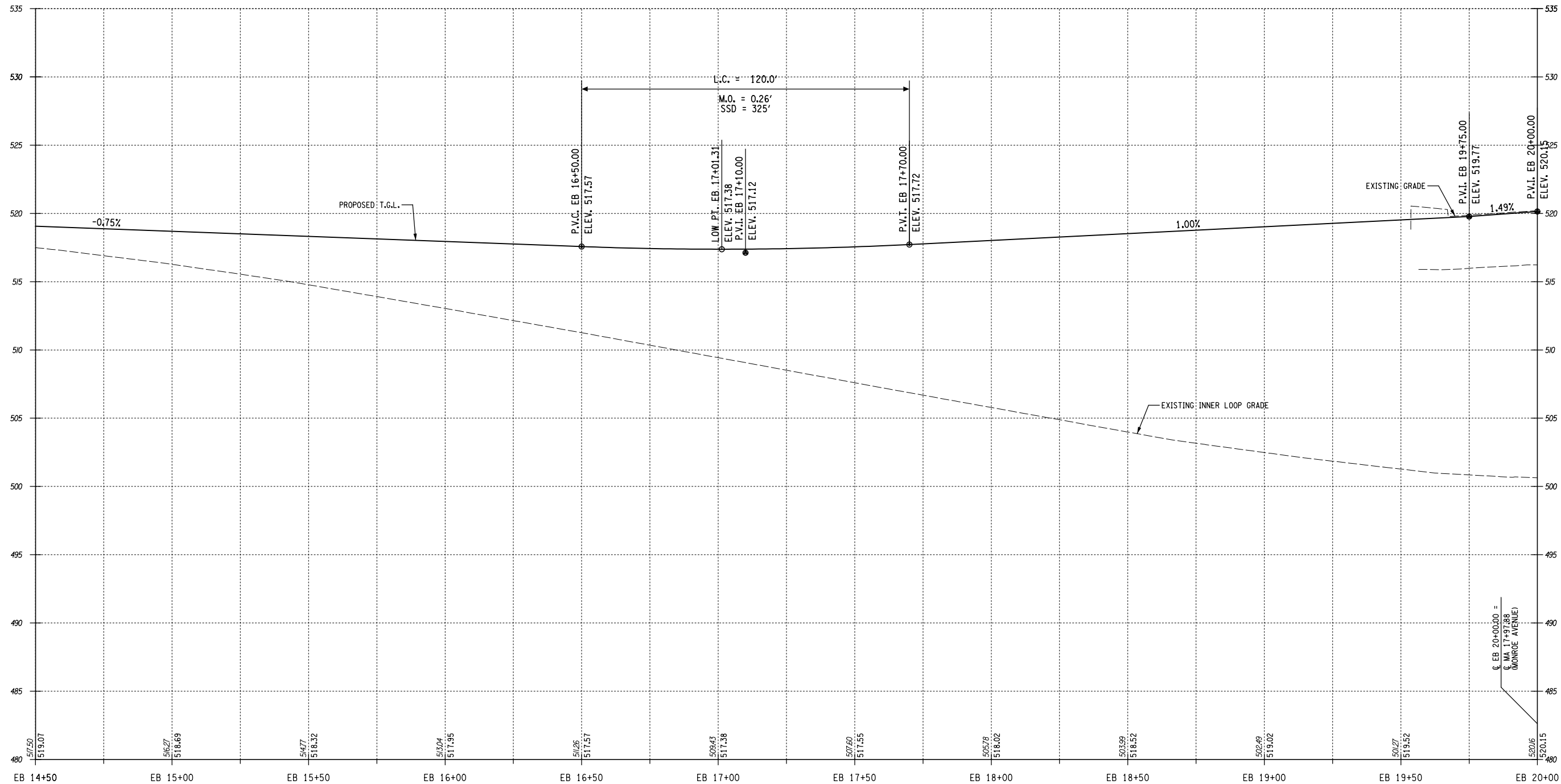
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Client/Project  
 CITY OF ROCHESTER  
 INNER LOOP EAST TRANSFORMATION PROJECT  
 S. CLINTON STREET TO EAST MAIN STREET  
 P.C. XXXXX, P.I.N. 4940.17  
 ROCHESTER, NEW YORK

Title		
GENERAL PROFILE		
Project No.	Scale	
192500295	H: 1"=40' V: 1"=8'	
Drawing No.	Sheet	Revision
PR-8	XXX of XXX	0



CENTERLINE PROFILE OF EASTBOUND EXPRESSWAY RAMP

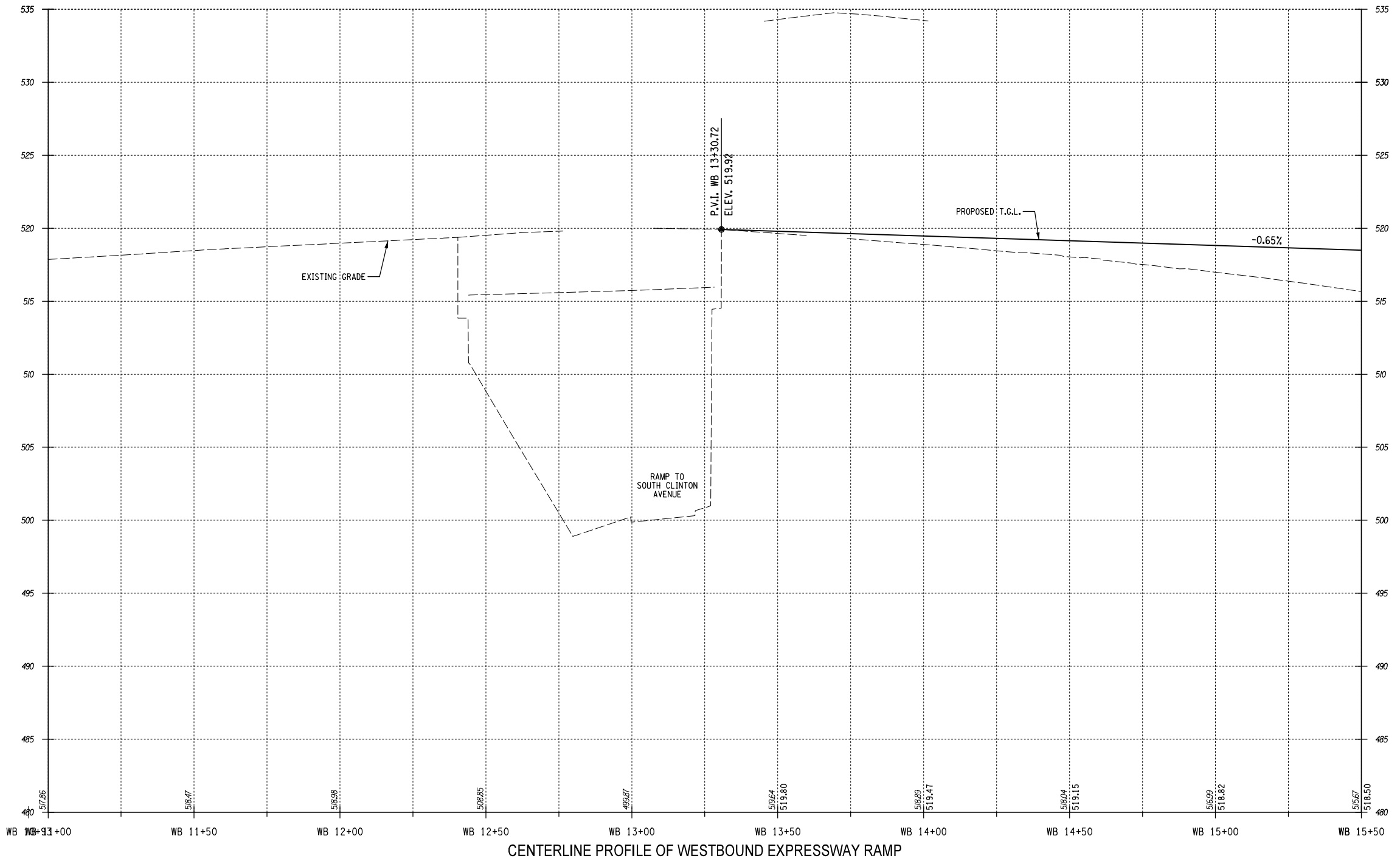
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 Plotted By: sommer

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GENERAL PROFILE		
Project No.	Scale	
192500295	H: 1"=40' V: 1"=8'	
Drawing No.	Sheet	Revision
PR-9	XXX of XXX	0



CENTERLINE PROFILE OF WESTBOUND EXPRESSWAY RAMP

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ROCHESTER, NEW YORK

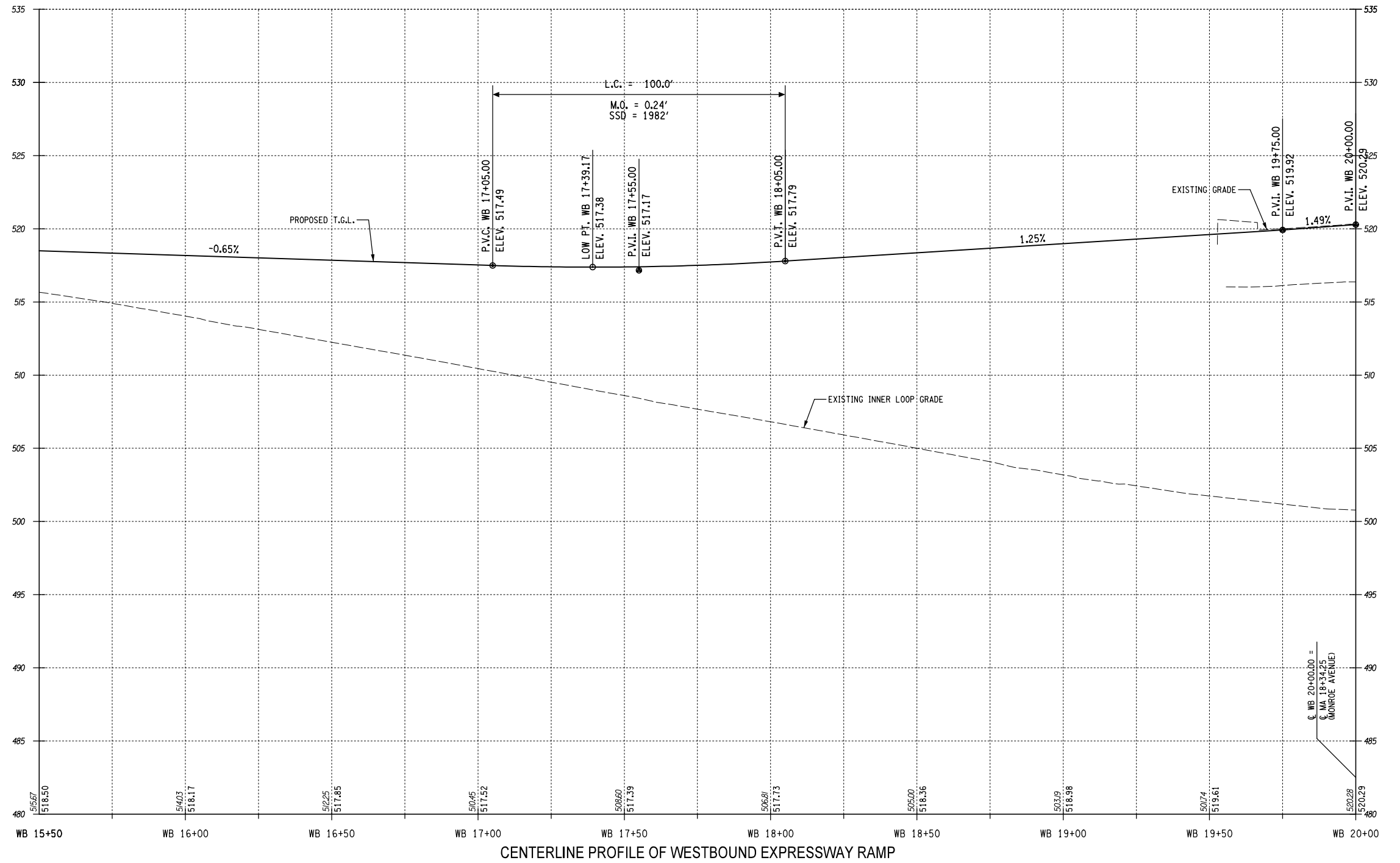
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Title  
GENERAL PROFILE

Project No. 192500295  
Scale H: 1"=40' V: 1"=8'

Drawing No. PR-10  
Sheet XXX of XXX  
Revision 0

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Date Plotted: 1/8/2014 11:21:30 AM  
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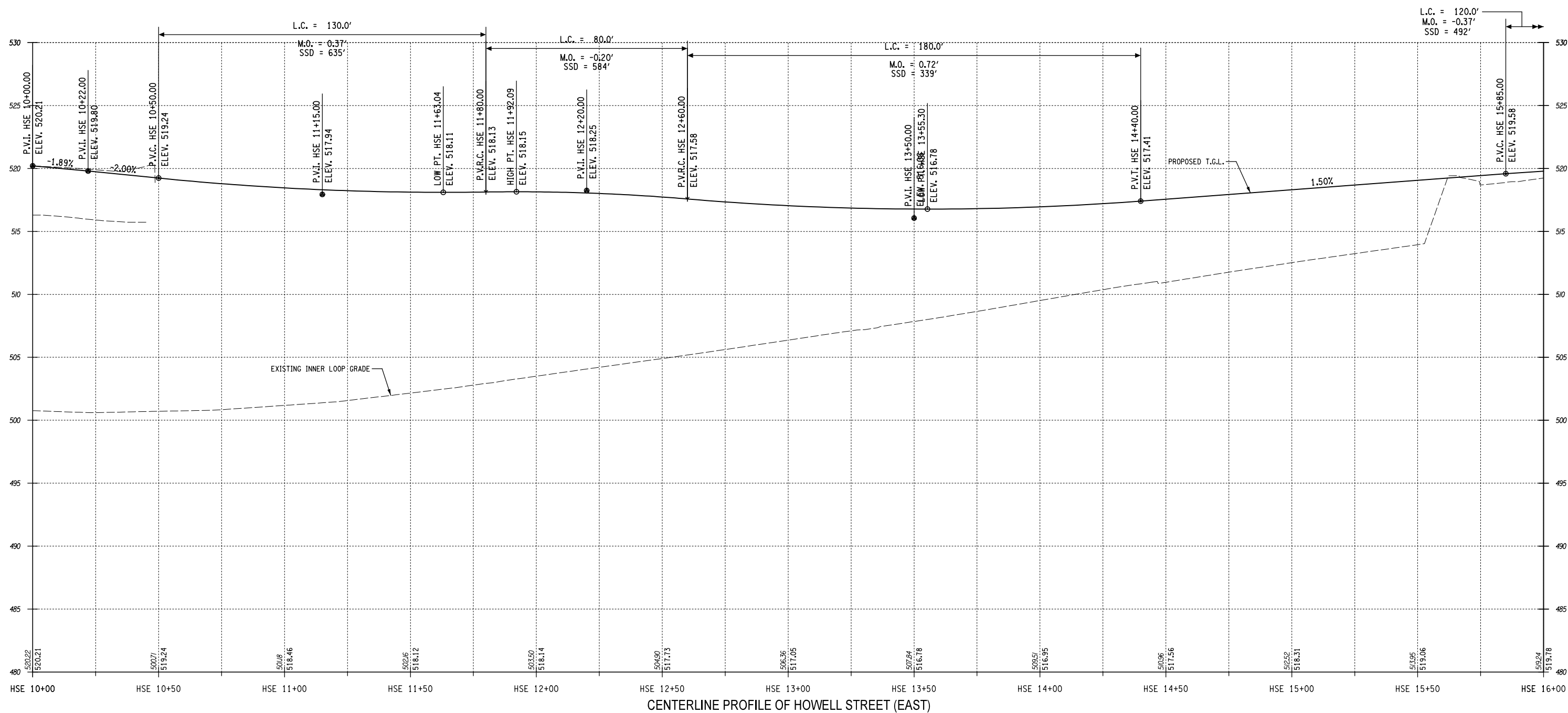
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Client/Project  
 CITY OF ROCHESTER  
 INNER LOOP EAST TRANSFORMATION PROJECT  
 S. CLINTON STREET TO EAST MAIN STREET  
 P.C. XXXXX, P.I.N. 4940.17  
 ROCHESTER, NEW YORK

Title  
 GENERAL PROFILE

Project No. 192500295  
 Scale H: 1"=40' V: 1"=8'  
 Drawing No. PR-11  
 Sheet XXX of XXX  
 Revision 0



CENTERLINE PROFILE OF HOWELL STREET (EAST)

Design File: \\s020295\Technical\Drawings\Plan Set\PR-12.dgn  
 Date/Time: 1/8/2014 8:20:53 AM  
 Plotted By: somester

REVISION				ISSUED			
Revision	By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD

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Signature	Date

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ROCHESTER, NEW YORK

File Name: XXX-XXX-XXX  
 Dwn. Chkd. Dsgn. 13.11.30 YY.MM.DD

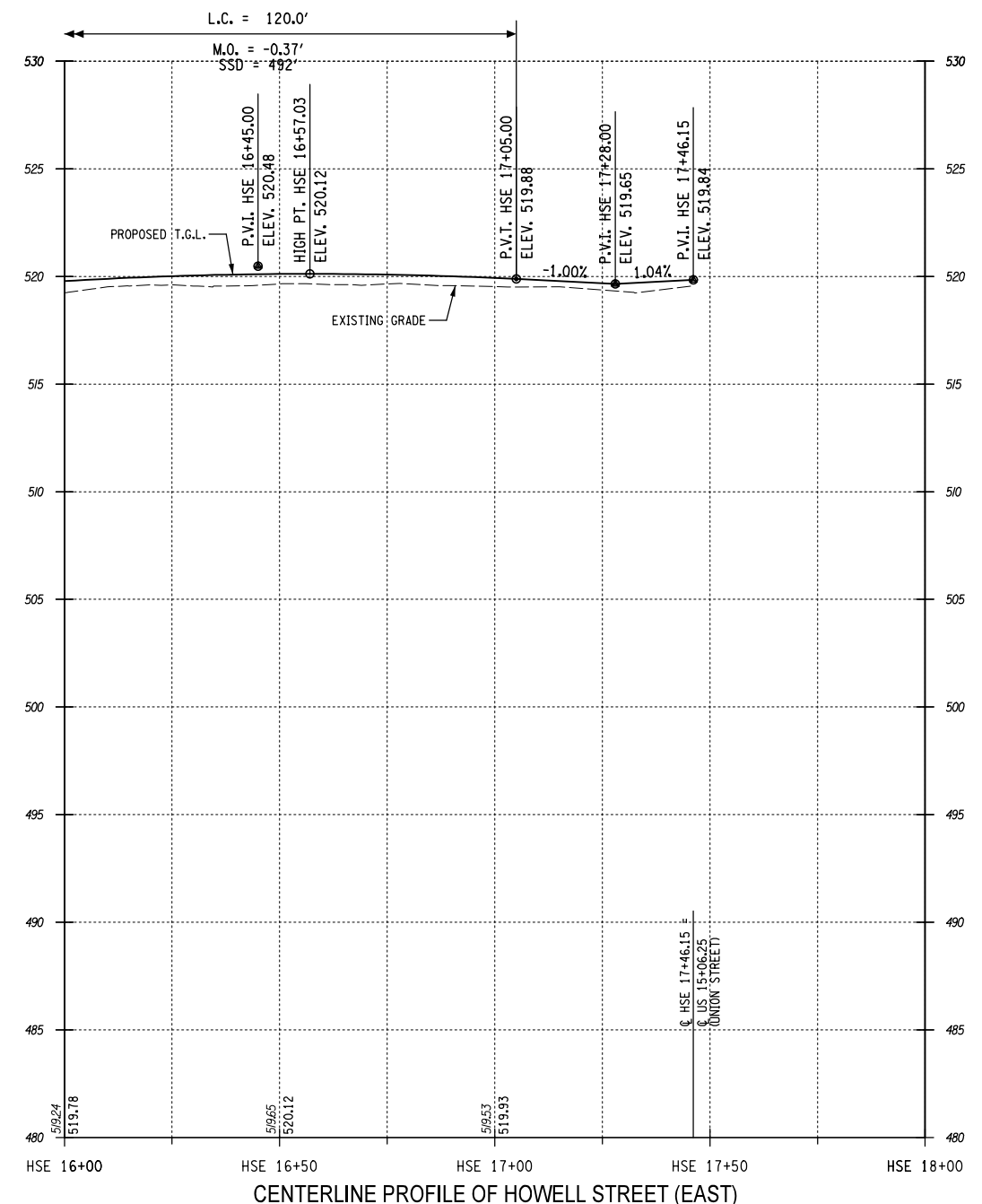
Title  
 GENERAL PROFILE

Project No. 192500295  
 Drawing No. PR-12

Scale  
 H: 1"=40' V: 1"=8'

Sheet  
 XXX of XXX

Revision  
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CENTERLINE PROFILE OF HOWELL STREET (EAST)

Design File: U:\192500295\Tentative\Drawings\Plan Set\PR\PR-13.dgn  
 Date Plotted: 1/8/2014 8:20:38 AM  
 Plotted By: sommer

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By	Appd.	YY.MM.DD	Issued	By	Appd.	YY.MM.DD	Issued

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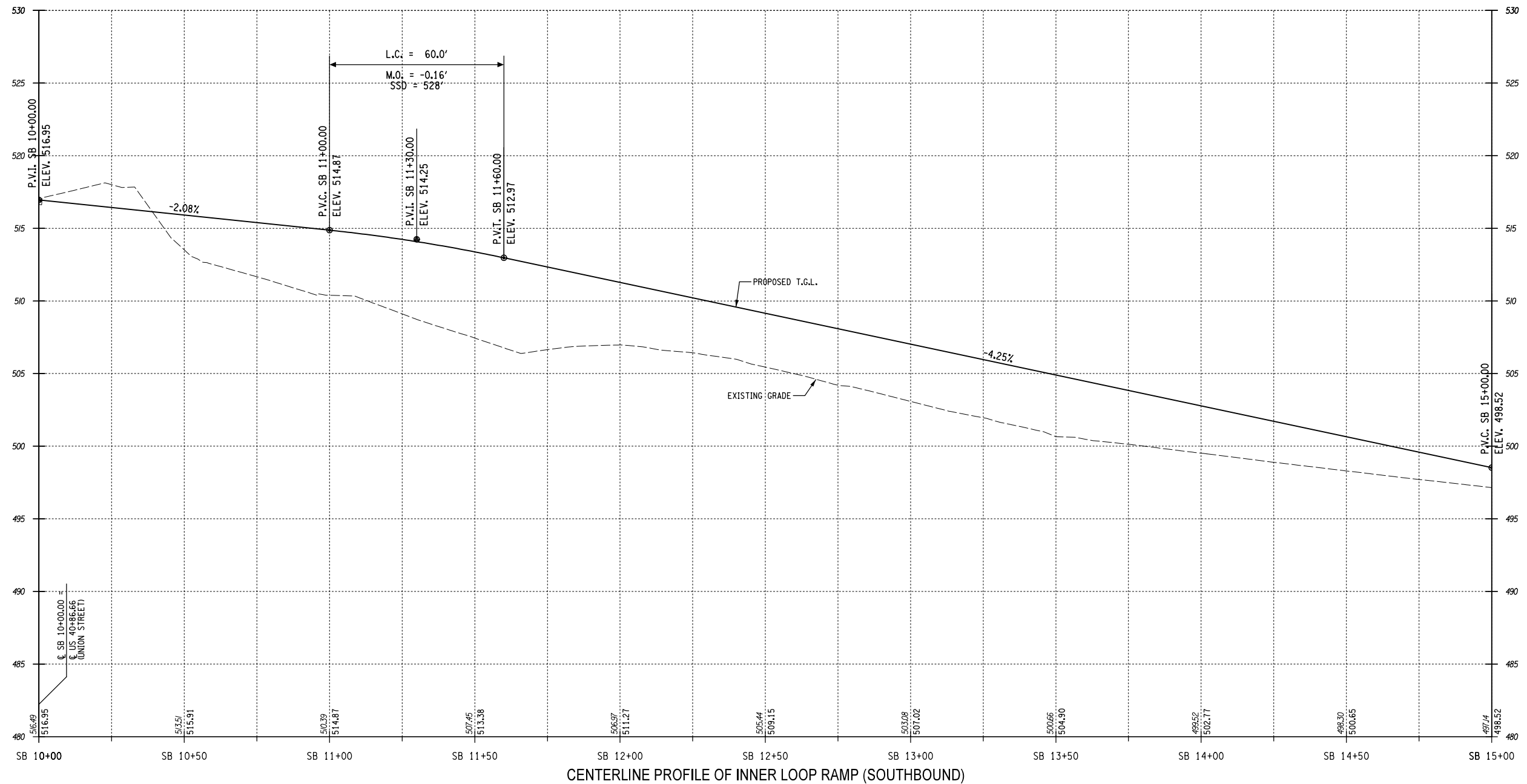
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 P.C. XXXXX, P.I.N. 4940.17  
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File Name: XXX-XXX.XXX  
 Dwn. Chkd. Dsgn. 13.11.30 YY.MM.DD

Title  
 GENERAL PROFILE

Project No. 192500295  
 Scale H: 1"=40' V: 1"=8'

Drawing No. PR-13  
 Sheet XXX of XXX  
 Revision 0



CENTERLINE PROFILE OF INNER LOOP RAMP (SOUTHBOUND)

Design File: I:\192500295\Technical\Drawings\Plan Set\PR-14.dgn  
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 Plotted By: sommer

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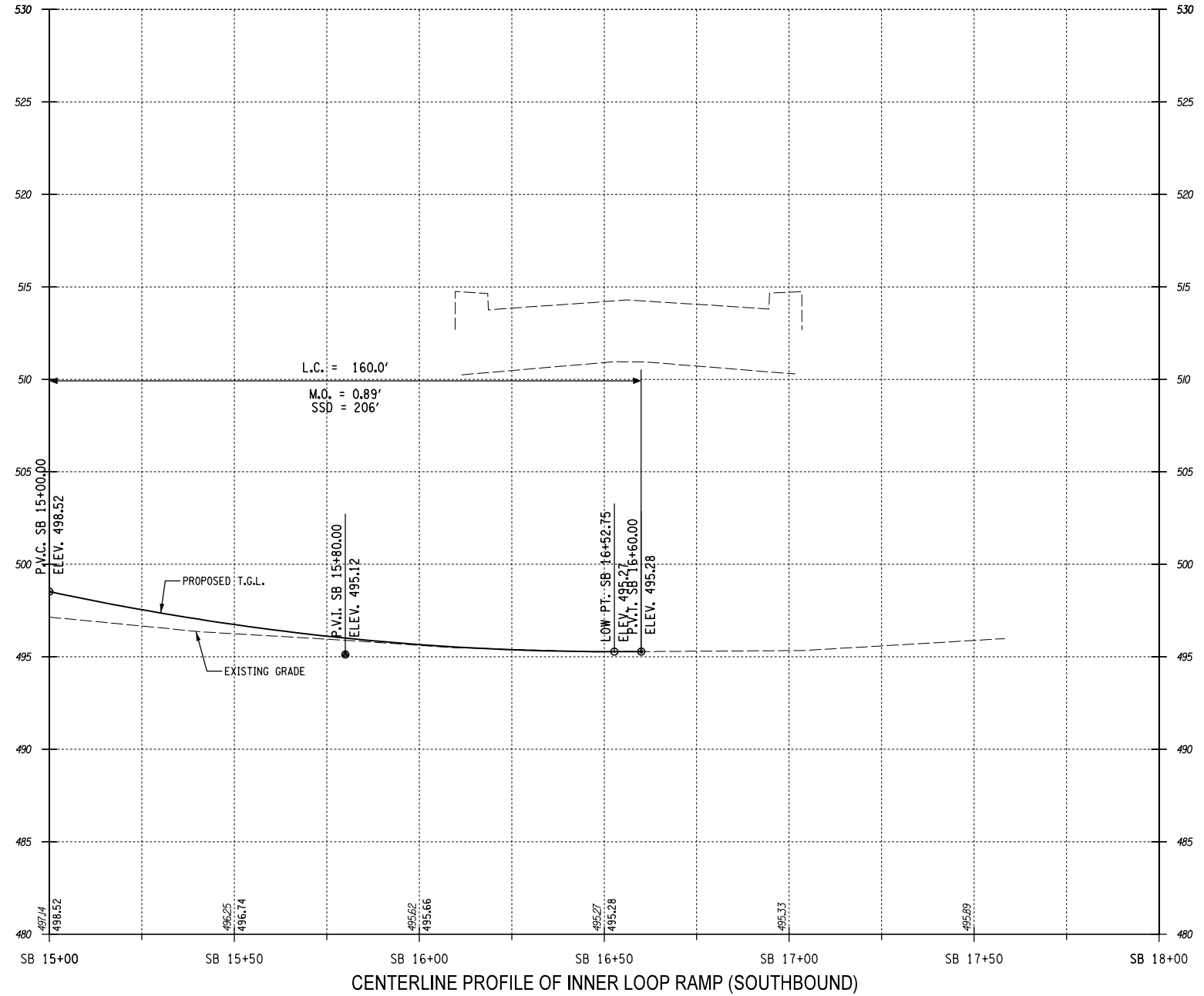
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File Name: XXX-XXX.XXX	XXX Dwn.	XXX Chkd.	XXX Dsgn.	13.11.30 YY.MM.DD
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Title	
GENERAL PROFILE	
Project No. 192500295	Scale H: 1"=40' V: 1"=8'
Drawing No. PR-14	Sheet XXX of XXX
	Revision 0





Design File: U:\192500295\Transportation\Drawings\Plan Set\PR-15.dgn  
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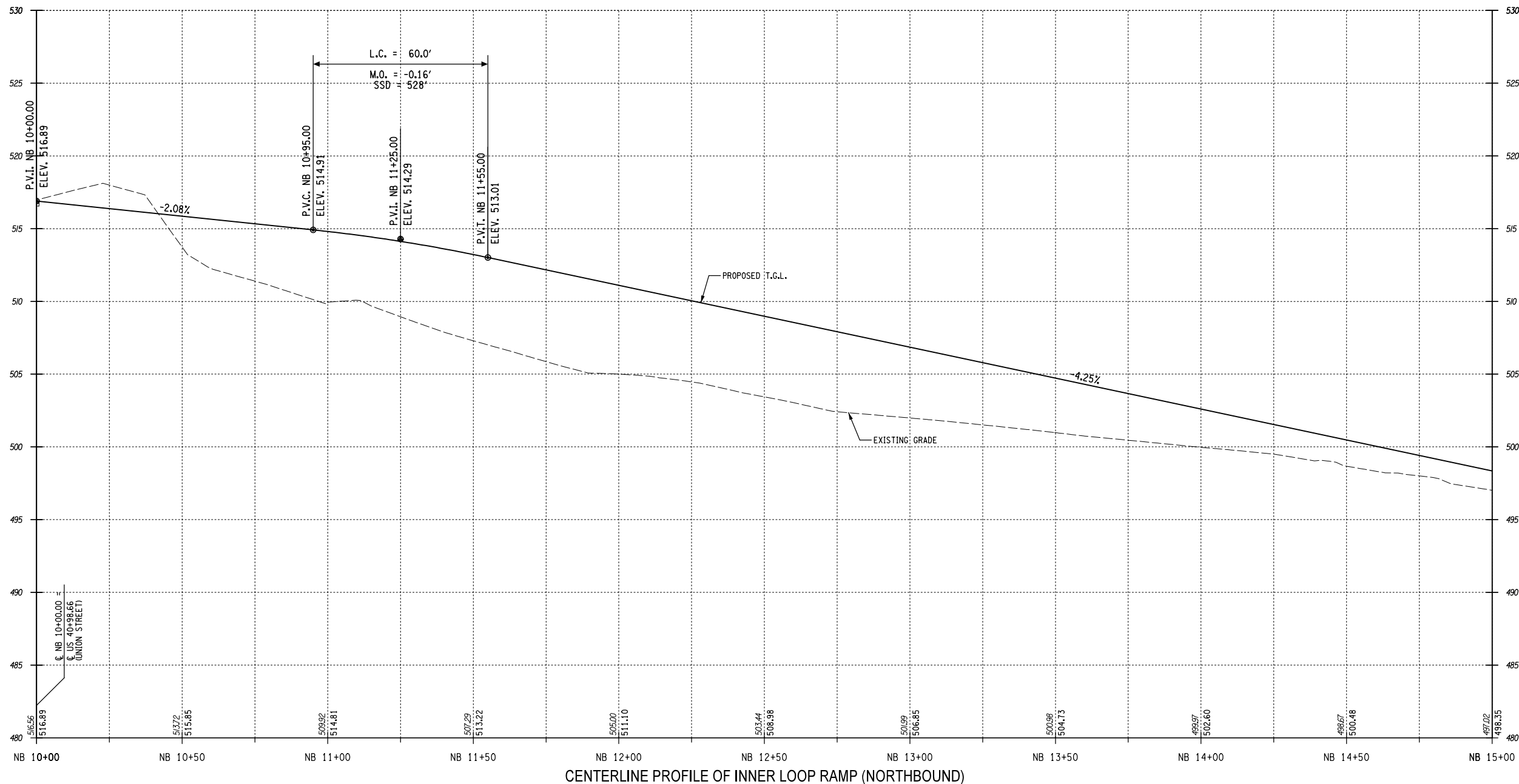


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File Name: XXX-XXX.XXX	XXX Dwn.	XXX Chkd.	XXX Dsgn.	13.11.30 YY.MM.DD
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Title <b>GENERAL PROFILE</b>	
Project No. 192500295	Scale H: 1"=40' V: 1"=8'
Drawing No. <b>PR-15</b>	Sheet XXX of XXX
Revision 0	



Design File: I:\192500295\Task\external\Drawings\Plan Set\PR-16.dgn  
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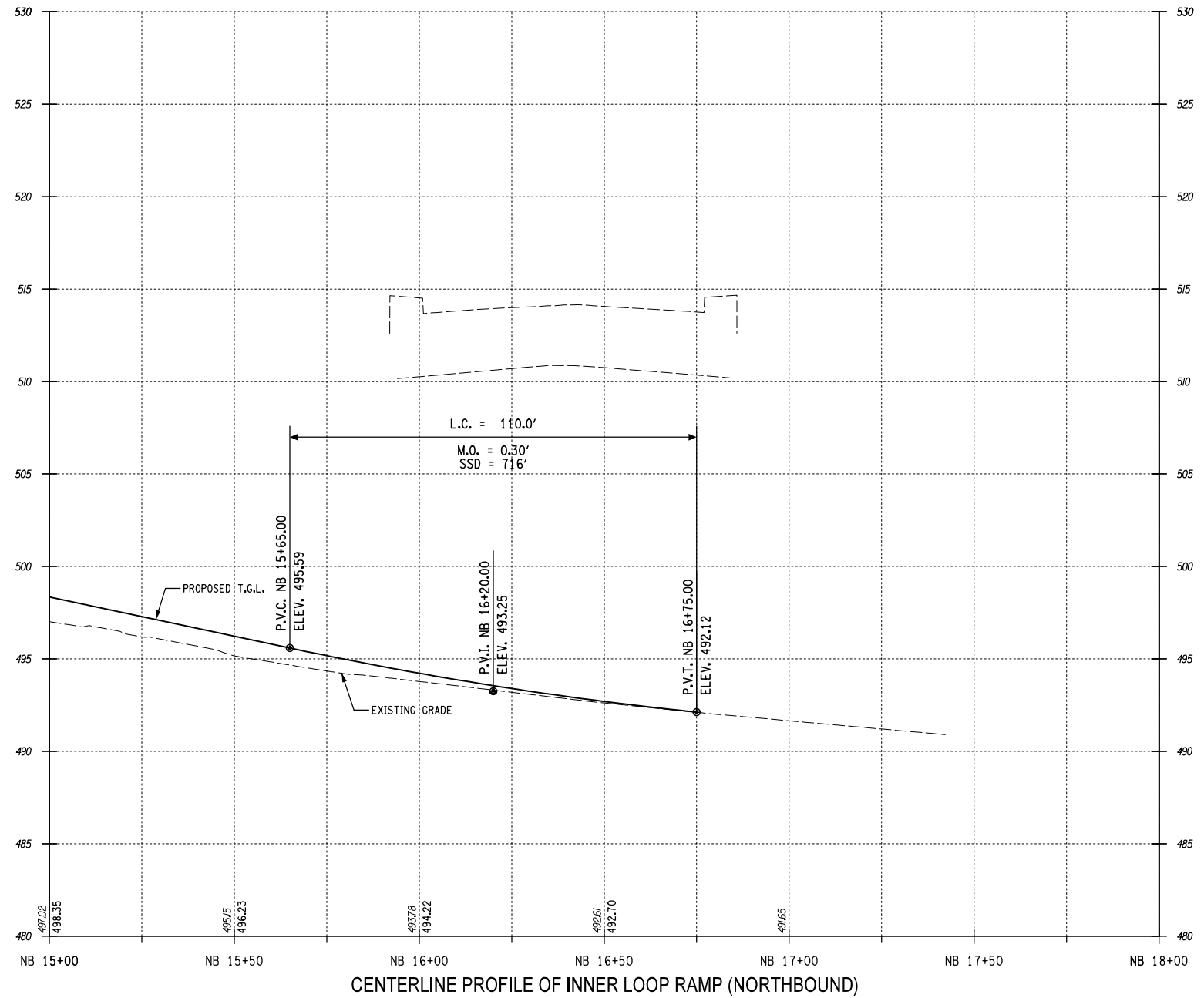
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Title  
GENERAL PROFILE

Project No. 192500295  
Drawing No. PR-16

Scale H: 1"=40' V: 1"=8'  
Sheet XXX of XXX

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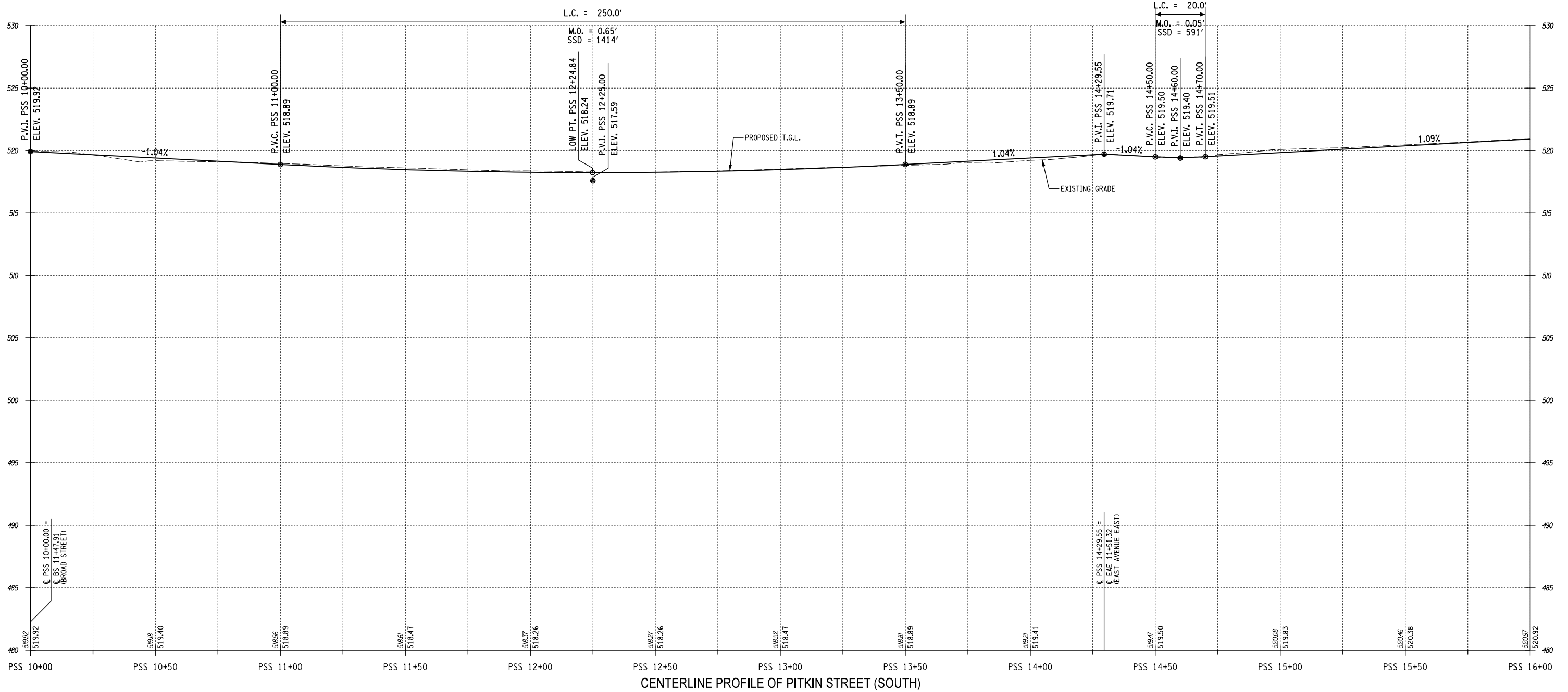
Client/Project  
 CITY OF ROCHESTER  
 INNER LOOP EAST TRANSFORMATION PROJECT  
 S. CLINTON STREET TO EAST MAIN STREET  
 P.C. XXXXX, P.I.N. 4940.17  
 ROCHESTER, NEW YORK

File Name: XXX-XXX.XXX  
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 YY.MM.DD

Title  
 GENERAL PROFILE

Project No. 192500295  
 Scale H: 1"=40' V: 1"=8'

Drawing No. PR-17  
 Sheet XXX of XXX  
 Revision 0



CENTERLINE PROFILE OF PITKIN STREET (SOUTH)

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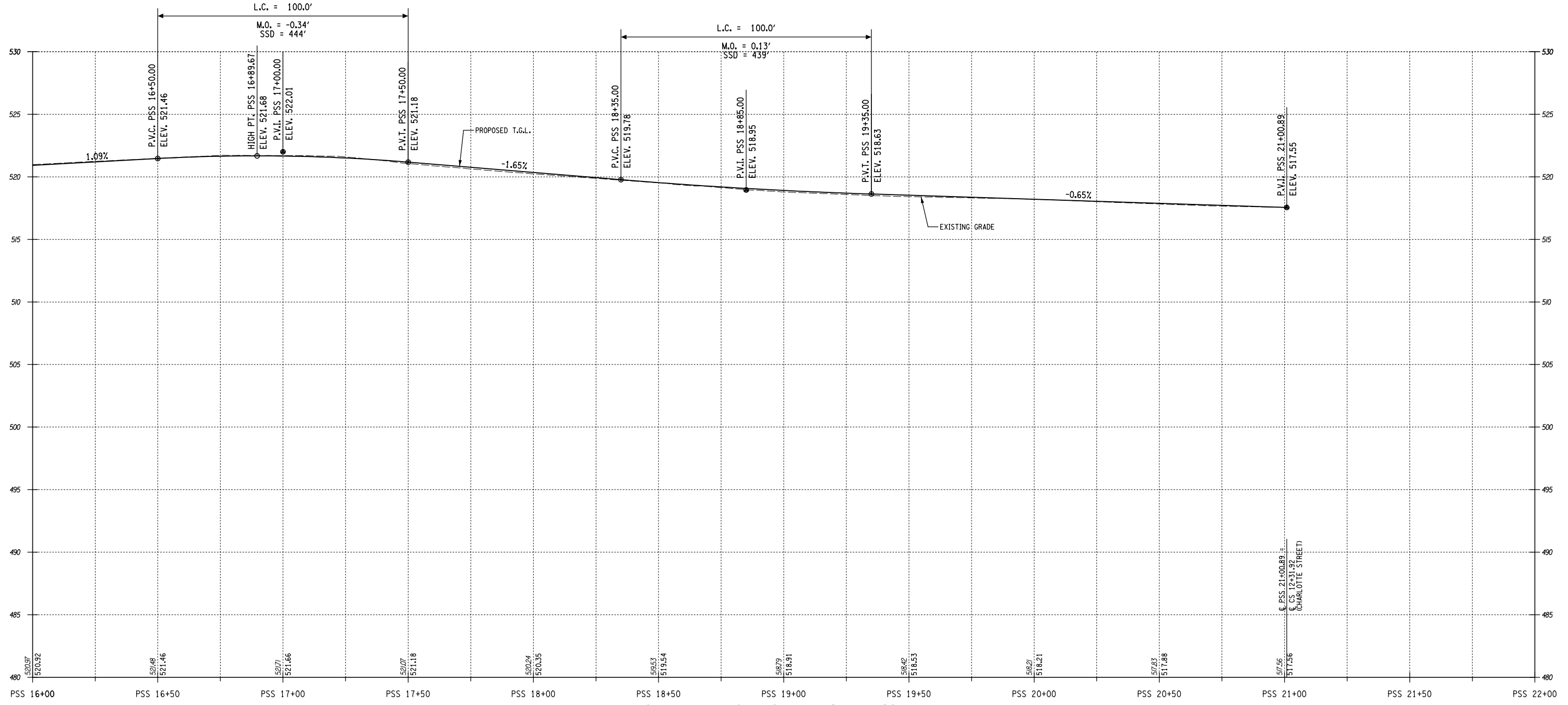
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	ROCHESTER, NEW YORK
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Dsgn.	XXX
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**CENTERLINE PROFILE OF PITKIN STREET (SOUTH)**

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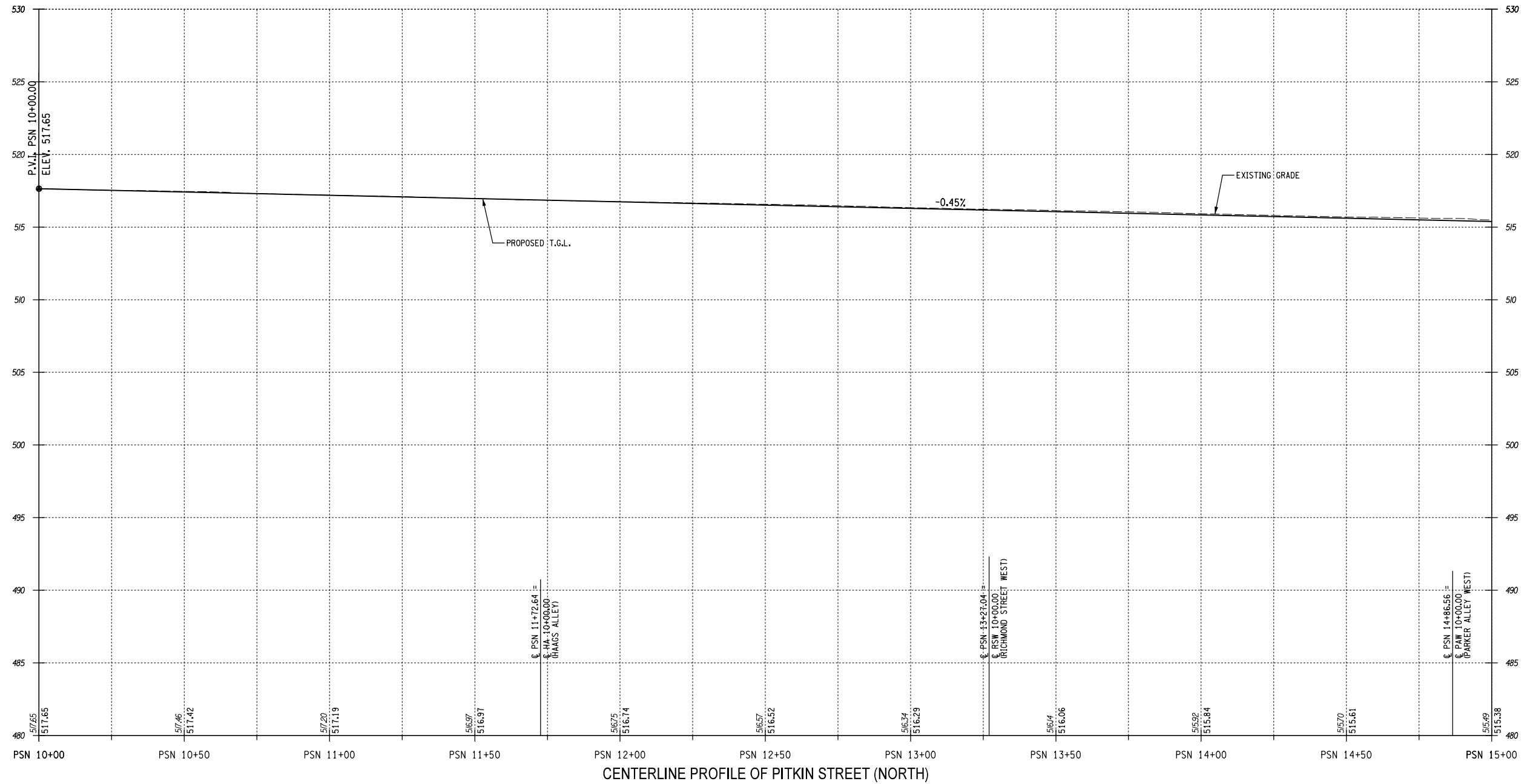


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Drawing No. <b>PR-19</b>	Revision <b>0</b>




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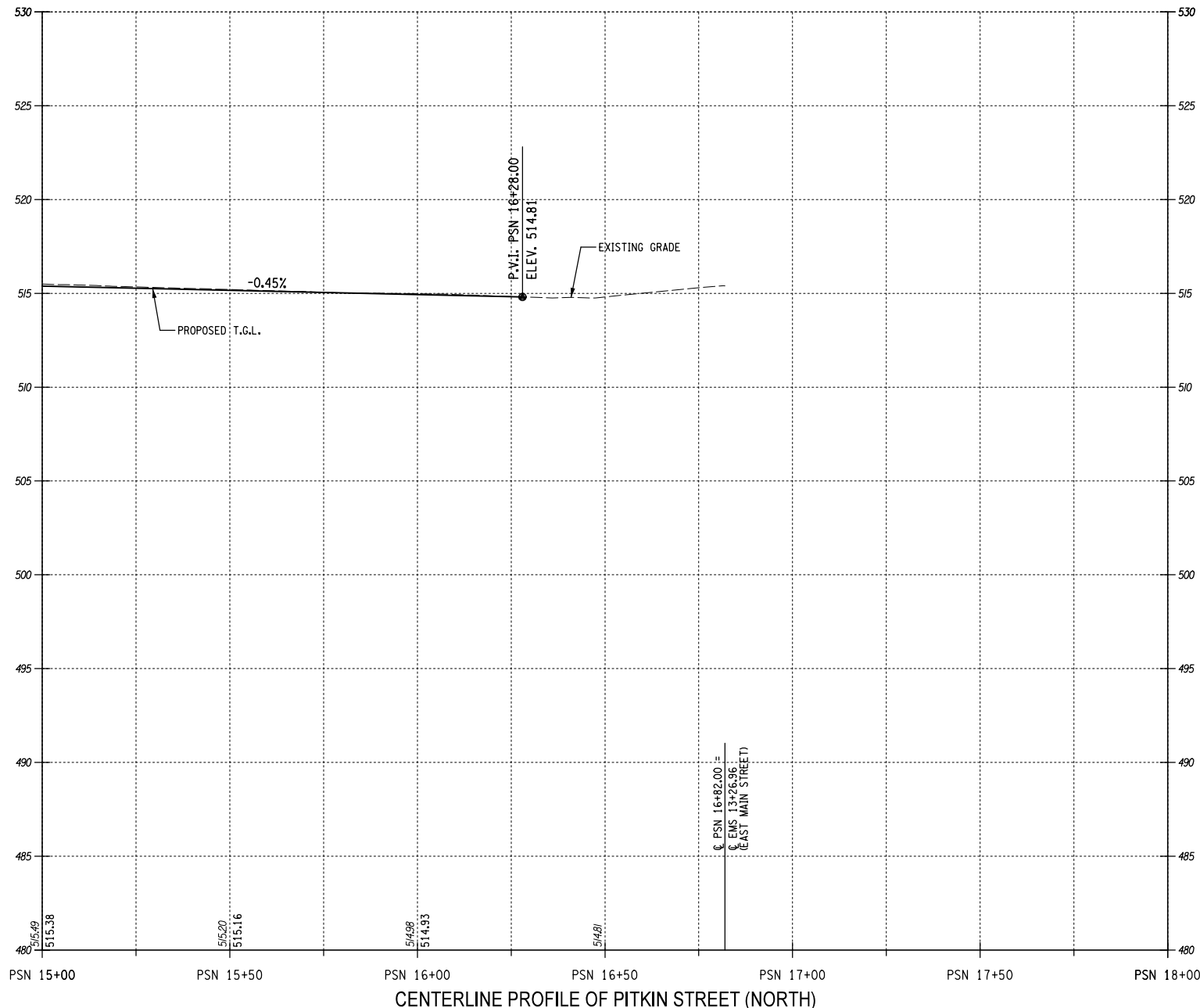
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Drawing No.  
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XXX of XXX

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Project No. 192500295  
 Scale H: 1"=40' V: 1"=8'

Drawing No. PR-21  
 Sheet XXX of XXX  
 Revision 0





# **APPENDIX B**

## **Project Costs**



**PROJECT: Inner Loop East Reconstruction Project  
Alternative 1- Construction Costs  
PIN 4940.T7**

**JANUARY 2013**

ITEM #	DESCRIPTION	QUANTITY	PAY UNIT	UNIT PRICE	AMOUNT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	40000	CY	\$18.00	\$720,000.00
203.03	EMBANKMENT IN PLACE	120000	CY	\$20.00	\$2,400,000.00
203.07	SELECT GRANULAR BACKFILL	3150	CY	\$45.00	\$141,750.00
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	615	CY	\$125.00	\$76,875.00
206.02	TRENCH AND CULVERT EXCAVATION	2100	CY	\$20.00	\$42,000.00
206.03	CONDUIT EXCAVATION AND BACKFILL INCL. RESTORATION	17995	LF	\$10.00	\$179,950.00
206.04	TRENCH AND CULVERT EXCAVATION - O.G.	5125	CY	\$20.00	\$102,500.00
206.XX	TRENCH AND CULVERT ROCK EXCAVATION	2130	CY	\$200.00	\$426,000.00
207.21	GEOTEXTILE SEPARATION	42320	SY	\$2.00	\$84,640.00
304.12	SUBBASE COURSE, TYPE 2	17938	CY	\$40.00	\$717,520.00
402.098202	9.5 F2 TOP COURSE HMA, 80 SERIES COMPACTION	4181	TON	\$110.00	\$459,910.00
402.098212	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.098202	209	QU	\$70.00	\$14,633.50
402.198902	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	4950	TON	\$105.00	\$519,750.00
402.198912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.198902	248	QU	\$70.00	\$17,325.00
402.378902	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	14850	TON	\$100.00	\$1,485,000.00
402.378912	PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.378902	743	QU	\$70.00	\$51,975.00
407.0102	DILUTED TACK COAT	8540	GAL	\$7.00	\$59,780.00
490.30	MISC. COLD MILLING	3200	SY	\$10.00	\$32,000.00
520.50140008	SAW CUTTING, ASPHALT PAVEMENT, ASPHALT SURFACE COURSE, CONCRETE PAVEMENT OR ASPHALT OVERLAY ON CONCRETE PAVEMENT	900	LF	\$6.00	\$5,400.00
500.XX	STRUCTURE REMOVAL - EAST AVENUE BRIDGE	1	LS	\$326,000.00	\$326,000.00
500.XX	STRUCTURE REMOVAL - BROAD STREET BRIDGE	1	LS	\$423,000.00	\$423,000.00
500.XX	STRUCTURE REMOVAL - MONROE AVENUE BRIDGE	1	LS	\$297,000.00	\$297,000.00
580.01	REMOVAL OF STRUCTURAL CONCRETE	1650	CY	\$800.00	\$1,320,000.00
587.02	BRIDGE RAILING REMOVAL AND STORAGE	8800	LF	\$40.00	\$352,000.00
603.6211	REINFORCED CONCRETE PIPE CLASS V, 48 INCH DIAMETER	1200	LF	\$450.00	\$540,000.00
603.6212	REINFORCED CONCRETE PIPE CLASS V, 54 INCH DIAMETER	537	LF	\$500.00	\$268,500.00
603.98100804	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8" DIAMETER	3500	LF	\$40.00	\$140,000.00
603.98101204	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 12" DIAMETER	170	LF	\$80.00	\$13,600.00
603.98101804	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 18" DIAMETER	560	LF	\$100.00	\$56,000.00

**PROJECT: Inner Loop East Reconstruction Project  
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**JANUARY 2013**

ITEM #	DESCRIPTION	QUANTITY	PAY UNIT	UNIT PRICE	AMOUNT
603.98102404	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 24" DIAMETER	206	LF	\$200.00	\$41,200.00
604.40720006	PRECAST SANITARY SEWER MANHOME (72 INCH DIAM.)	50	LF	\$1,000.00	\$50,000.00
604.070402	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES	60	EA	\$700.00	\$42,000.00
604.500401	SPECIAL DRAINAGE STRUCTURE	700	LF	\$250.00	\$175,000.00
604.500402	SPECIAL DRAINAGE STRUCTURE (JUNCTION CHAMBER)	115	LF	\$1,200.00	\$138,000.00
605.0901	UNDERDRAIN FILTER TYPE 1	2100	CY	\$35.00	\$73,500.00
605.1502	PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, 6 INCH DIAMETER	25000	LF	\$7.50	\$187,500.00
606.73	REMOVING AND DISPOING OF BOX BEAM GUIDERAIL	8800	LF	\$3.50	\$30,800.00
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	2030	CY	\$380.00	\$771,400.00
608.XXXXX	COLORED AND IMPRINTED ASPHALT (CYCLE TRACK)	820	TON	\$180.00	\$147,600.00
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	200	TON	\$150.00	\$30,000.00
608.21	EMBEDDED DETECTABLE WARNING UNITS	110	SY	\$300.00	\$33,000.00
609.0251	GRANITE CURB (AS DETAILED) - TYPE I	24220	LF	\$30.00	\$726,600.00
610.1101	MULCH FOR PLANTING TYPE A, B & D - WOOD CHIPS AND SHREDDED BARK	225	CY	\$50.00	\$11,250.00
610.1403	TOPSOIL - LAWNS	5876	CY	\$45.00	\$264,420.00
610.1602	TURF ESTABLISHMENT - LAWNS	52900	SY	\$1.50	\$79,350.00
611.0151	PLANTING - MINOR DECIDUOUS TREES - 2 INCH CALIPER BALL & BURLAP, FIELD POTTED OR FIELD BOXE	360	EA	\$350.00	\$126,000.00
615.XXXXXXX	MISC. LANDSCAPING APPURTENANCES	1	LS	\$200,000.00	\$200,000.00
644.XXXXXXX	OVERHEAD SIGN STRUCTURE (INCLUDES PANELS)	1	EA	\$200,000.00	\$200,000.00
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF WITH Z-BARS	1000	SF	\$25.00	\$25,000.00
645.81	TYPE A SIGN POSTS	100	EA	\$100.00	\$10,000.00
645.85	POLE MOUNTED SIGN SUPPORT SYSTEM (BAND MOUNTED)	150	EA	\$100.00	\$15,000.00
647.61	REMOVAL OF SIGNS - SIZE A (0 - 10 SQUARE FEET)REM AND DISPOSE GROUND MOUNTED TYPE A SIGN SUPPORT(S), FDNS AND ANY ATTACHED SIGNS - SIZE I (UNDER 30 SQUARE FEET)	300	EA	\$25.00	\$7,500.00
655.1103	WELDED FRAME AND RETICULINE GRATE 3	140	EA	\$550.00	\$77,000.00
655.1202	MANHOLE FRAME AND COVER	60	EA	\$750.00	\$45,000.00
663.0112	DUCTILE IRON CEMENT LINED WATER PIPE, 12"	575	LF	\$160.00	\$92,000.00
663.0124	DUCTILE IRON CEMENT LINED WATER PIPE, 24"	300	LF	\$320.00	\$96,000.00
663.0408	PLASTIC WATER PIPE, 8"	2640	LF	\$140.00	\$369,600.00

**PROJECT: Inner Loop East Reconstruction Project  
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PIN 4940.T7**

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ITEM #	DESCRIPTION	QUANTITY	PAY UNIT	UNIT PRICE	AMOUNT
663.0412	PLASTIC WATER PIPE, 12"	750	LF	\$160.00	\$120,000.00
663.1008	RESILIENT WEDGE VALVE & VALVE BOX, 8"	12	EA	\$1,500.00	\$18,000.00
663.1012	RESILIENT WEDGE VALVE & VALVE BOX, 12"	2	EA	\$2,000.00	\$4,000.00
663.1124	BUTTERFLY VALVE & VALVE BOX, 24"	1	EA	\$20,000.00	\$20,000.00
663.1136	BUTTERFLY VALVE & VALVE BOX, 36"	2	EA	\$30,000.00	\$60,000.00
663.13XX	HYDRANT	10	EA	\$3,000.00	\$30,000.00
663.33	ADJUST EXISTING VALVE BOX ELEVATION	100	EA	\$250.00	\$25,000.00
670.0104	FOUNDATION FOR LIGHT STANDARDS, 4 FEET LONG	100	EA	\$1,000.00	\$100,000.00
670.2602	RIGID PLASTIC CONDUIT, 2"	3000	LF	\$3.00	\$9,000.00
670.xx	NEW LIGHTPOLE AND LUMINAIRE	100	EA	\$2,000.00	\$200,000.00
670.300101MO	INSTALL LIGHTING PULLBOX FRAME AND COVER (CITY OF ROCHESTER) - 2' X 2' SQUARE	100	EA	\$125.00	\$12,500.00
670.7005	SINGLE CONDUCTOR CABLE, NUMBER 8 GAUGE	25000	LF	\$3.00	\$75,000.00
670.7501	GROUND WIRE NO. 6 AWG	12000	LF	\$2.50	\$30,000.00
670.81	REMOVE AND DISPOSE OF LAMPPPOST ASSEMBLY	295	EA	\$175.00	\$51,625.00
670.82	REMOVE LAMPPPOST FOUNDATION	295	EA	\$185.00	\$54,575.00
680.10020001	POWDER COATING TRAFFIC SIGNAL POLE - MAST ARM	17	EA	\$1,750.00	\$29,750.00
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	86	CY	\$900.00	\$77,400.00
680.5002	CONCRETE BASE FOR CONTROLLER CABINET	5	EA	\$1,600.00	\$8,000.00
680.510301	PULLBOX-CIRCULAR, 24 INCH DIAMETER, REINFORCED CONCRETE	28	EA	\$1,100.00	\$30,800.00
680.510401	PULLBOX-CIRCULAR, 30 INCH DIAMETER, REINFORCED CONCRETE	28	EA	\$1,250.00	\$35,000.00
680.520106	CONDUIT, METAL STEEL, ZINC COATED, 2"	870	LF	\$10.50	\$9,135.00
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	8290	LF	\$15.00	\$124,350.00
680.520110	CONDUIT, METAL STEEL, ZINC COATED, 4"	20	LF	\$25.00	\$500.00
680.521603MO	CONDUIT, PVC SCHEDULE 80, 1" DIAMETER	670	LF	\$6.50	\$4,355.00
680.521610MO	CONDUIT, PVC SCHEDULE 80, 4" DIAMETER	20480	LF	\$8.50	\$174,080.00
680.54	INDUCTANCE LOOP INSTALLATION	6840	LF	\$9.75	\$66,690.00
680.71	SHIELDED LEAD-IN CABLE	12450	LF	\$1.75	\$21,787.50
680.72	INDUCTANCE LOOP WIRE	16580	LF	\$0.65	\$10,777.00
680.730208	SIGNAL CABLE, 2 CONDUCTORS, 08 AWG	400	LF	\$4.75	\$1,900.00
680.730714	SIGNAL CABLE 7 CONDUCTORS, 14 AWG	5330	LF	\$4.50	\$23,985.00

**PROJECT: Inner Loop East Reconstruction Project  
Alternative 1- Construction Costs  
PIN 4940.T7**

**JANUARY 2013**

ITEM #	DESCRIPTION	QUANTITY	PAY UNIT	UNIT PRICE	AMOUNT
680.730914	SIGNAL CABLE 9 CONDUCTORS, 14 AWG	3140	LF	\$5.25	\$16,485.00
680.79000001	REMOVE TRAFFIC SIGNAL EQUIPMENT	4	LS	\$10,000.00	\$40,000.00
680.802708MO	INSTALL ACTUATED 8 PHASE GROUND MOUNTED TRAFFIC SIGNAL CABINET AND EQUIP. (FURNISHED BY COUNTY)	4	EA	\$2,000.00	\$8,000.00
680.809908MO	ACTUATED 8 PHASE GROUND MOUNTED TRAFFIC SIGNAL CABINET AND EQUIP. (PURCHASED FROM COUNTY)	4	EA	\$5,000.00	\$20,000.00
680.810121MO	TRAFFIC SIGNAL MODULE - 12" DIA., RED BALL, LED	34	EA	\$90.00	\$3,060.00
680.810123MO	TRAFFIC SIGNAL MODULE - 12" DIA., YELLOW BALL, LED	34	EA	\$115.00	\$3,910.00
680.810125MO	TRAFFIC SIGNAL MODULE - 12" DIA., GREEN BALL, LED	34	EA	\$125.00	\$4,250.00
680.810128MO	TRAFFIC SIGNAL MODULE - 12" DIA., BIMODAL YELLOW/GREEN ARROW, LED	8	EA	\$175.00	\$1,400.00
680.810308	INSTALL BALL/ ARROW LED TRAFFIC SIGNAL MODULE	110	EA	\$60.00	\$6,600.00
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	110	EA	\$225.00	\$24,750.00
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	34	EA	\$275.00	\$9,350.00
680.81310009	ACCESSIBLE PEDESTRIAN PUSH BUTTON STATION	34	EA	\$500.00	\$17,000.00
680.813104	INSTALL LED PEDESTRIAN SIGNAL MODULE	40	EA	\$60.00	\$2,400.00
680.813109	PEDESTRIAN SIGNAL SECTION - POLYCARBONATE, TYPE I - FOR 16 INCH BY 18 INCH LED MODULE	40	EA	\$375.00	\$15,000.00
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	23	EA	\$200.00	\$4,600.00
680.820030MO	TRAFFIC SIGNAL POLE MAST ARM COMBINATION ANCHOR BASE (30')	16	EA	\$4,250.00	\$68,000.00
680.8205	OVERHEAD SIGN ASSEMBLY, TYPE E	29	EA	\$600.00	\$17,400.00
680.821618MO	16"X18" PED. SIGNAL - PERSON (FULL) HAND (FULL) 2 DIGIT COUNTDOWN TIMER MODULE - TYPE A UNITS	34	EA	\$350.00	\$11,900.00
680.8225	PEDESTRIAN PUSHBUTTON AND SIGN - WITHOUT POST	6	EA	\$225.00	\$1,350.00
680.854000MO	TRAFFIC SIGNAL MAST ARM, 40 FEET ARM LENGTH	18	EA	\$3,000.00	\$54,000.00
680.995101MO	FIBER-OPTIC CABLE (PURCHASED FROM COUNTY)	5120	LF	\$3.50	\$17,920.00
680.996101MO	INSTALL FIBER-OPTIC CABLE (FURNISHED)	5120	LF	\$5.00	\$25,600.00
683.XXXXXX	CCTV CAMERA	2	EA	\$5,000.00	\$10,000.00
683.XXXXXX	CCTV EQUIPMENT AT INTERSECTION	2	EA	\$3,000.00	\$6,000.00
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	24000	LF	\$0.75	\$18,000.00
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	19000	LF	\$0.75	\$14,250.00
688.01	WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES	4200	LF	\$2.00	\$8,400.00

**PROJECT: Inner Loop East Reconstruction Project  
Alternative 1- Construction Costs  
PIN 4940.T7**

**JANUARY 2013**

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ITEM #	DESCRIPTION	QUANTITY	PAY UNIT	UNIT PRICE	AMOUNT
	<b>SUBTOTAL (2015 Dollars)</b>				<b>\$17,195,663.00</b>
	MPT (6%), Survey Operations(4%), Mobilization (4%)		LS		<b>\$2,407,393.80</b>
	Contingency				<b>\$2,462,682.70</b>
	<b>TOTAL CONSTRUCTION COST (2014)</b>				<b>\$22,065,739.50</b>

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# **APPENDIX C**

## **NEPA Checklist**



# NEPA ASSESSMENT CHECKLIST

(Revised 12-29-03)

Date: **December 2013**

PIN: **4940.T7**

Project Description: **Inner Loop East Reconstruction**

Answer the following questions by checking YES or NO.

## I. THRESHOLD QUESTION

1. Does the project involve unusual circumstances as described in 23 CFR ' 771.117(b)? **YES**  **NO**

If **YES**, the project does not qualify as a Categorical Exclusion and an EA or EIS is required. You may STOP COMPLETING THE CHECKLIST.

**- OR -**

---

If **NO**, continue...

## II. AUTOMATIC CATEGORICAL EXCLUSION

2. Is the project an action listed as an Automatic Categorical Exclusion in 23 CFR ' 771.117(c) (C List) and/or is the project an element-specific project classified by FHWA as a Categorical Exclusion on July 22, 1996? **YES**  **NO**

If **YES** to question 2, the project qualifies for a C List Categorical Exclusion, "Automatic Categorical Exclusion". You may STOP COMPLETING THE CHECKLIST. The checklist should be included in the appendix of the Final Design Report (or Project Scoping Report/Final Design Report). The CATEGORICAL EXCLUSION DETERMINATION memo is to be sent to the appropriate Main Office Design liaison unit with a copy of the Final Design Report (or Project Scoping Report/Final Design Report). A copy of the CATEGORICAL EXCLUSION DETERMINATION memo must also be sent to the Office of Budget and Finance, Project and Letting Management, and others (see sample DETERMINATION memo attached).

(Note - Even if YES to question 2, there may be specific environmental issues that still require an action such as an EO 11990 Wetland Finding or a determination of effect on cultural resources. The project is still an Automatic Categorical Exclusion but the necessary action must be taken, such as obtaining FHWA's signature on the wetland finding. Refer to the appropriate section of the Environmental Procedures Manual for guidance.)

**-OR-**

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If **NO** to question 2 above, continue below...

## III. PROGRAMMATIC CATEGORICAL EXCLUSION

3. Is the project on new location or does it involve a change in the functional classification or added mainline capacity (add through-traffic lanes)? **YES**  **NO**

4. Is this a Type I project under 23 CFR 772, "Procedures for Abatement of Highway Traffic Noise and Construction"? **YES**  **NO**
5. If the project is located within the limits of a designated sole source aquifer area or the associated stream flow source area, is the drainage pattern altered? **YES**  **NO**
6. Does the project involve changes in travel patterns? **YES**  **NO**
7. Does the project involve the acquisition of more than minor amounts of temporary or permanent right-of-way (a minor amount of right-of-way is defined as not more than 10 percent of a parcel for parcels under 4 ha (10 acres) in size, 0.4 ha (1 acre) of a parcel 4 ha to 40.5 ha (10 to 100 acres) in size and 1 percent of a parcel for parcels greater than 40.5 ha (100 acres) in size? **YES**  **NO**
8. Does the project require a Section 4(f) evaluation and determination in accordance with the FHWA guidance? **YES**  **NO**
9. Does the project involve commercial or residential displacement? **YES**  **NO**
10. If Section 106 applies, does FHWA's determination indicate an opinion of adverse effect? **YES**  **NO**
11. Does the project require an ACOE Nationwide Permit #23 – Approved Categorical Exclusion? \* **YES**  **NO**
12. Does the project require any work in wetlands requiring an "Individual" Executive Order 11990 Wetland Finding? \* **YES**  **NO**

13. Has it been determined that the project will significantly encroach upon a flood plain based on preliminary hydraulic analysis and consideration of EO 11988 criteria as appropriate? YES  NO
14. Does the project involve construction in, across or adjacent to a river designated as a component proposed for or included in the National System of Wild and Scenic Rivers? YES  NO
15. Does the project involve any change in access control? YES  NO
16. Does the project involve any known hazardous materials sites or previous land uses with potential for hazardous material remains within the right-of-way? YES  NO
17. Does the project occur in an area where there are Federally listed endangered or threatened species or critical habitat? YES  NO
18. Is the project, pursuant to EPM Chapter 1A and Table 2 and Table 3 of 40 CFR Parts 51 and 93, non-exempt or does it exceed any ambient air quality standard? YES  NO
19. Does the project lack consistency with the New York State Coastal Zone Management Plan and policies of the Department of State, Office of Coastal Zone Management? YES  NO
20. Does the project impact or acquire any Prime or Unique Farmland as defined in 7 CFR Part 657 of the Federal Farmland Protection Policy Act and

are there outstanding compliance activities necessary? (Note: Interpret compliance activity to mean completion of Form AD 1006.)

YES  NO

If **NO** for questions, 3-20, go on to answer question 21...

**-OR-**

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If **YES** to any question 3-20, project will not qualify as a Programmatic Categorical Exclusion. Answer questions 21 and 22 for documentation only and go on to question 23...

21. Does the project involve the use of a temporary road, detour or ramp closure?

YES  NO

If **NO** to questions 3-20 and **NO** to question 21, the project qualifies as a Programmatic Categorical Exclusion. You may **STOP COMPLETING THE CHECKLIST**. The checklist should be included in the appendix of the Final Design Report (or Scope Summary Memorandum/Final Design Report). The CATEGORICAL EXCLUSION DETERMINATION memo is to be sent to the appropriate Main Office Design liaison unit with a copy of the Final Design Report (or Scope Summary Memorandum/Final Design Report). A copy of the Categorical Exclusion memo must also be sent to the Office of Budget and Finance, Project and Letting Management, and others.

**-OR-**

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If **YES** to question 21, preparer should complete question 22 (i-v). If questions 3-20 are **NO** and 21 is **YES**, the project will still qualify as a Programmatic Categorical Exclusion if questions 22 (i-v) are **YES**.

22. Since the project involves the use of temporary road, detour or ramp closure, will all of the following conditions be met:

i. Provisions will be made for pedestrian access, where warranted, and access by local traffic and so posted.

YES  NO

ii. Through-traffic dependent business will not be adversely affected.

YES  NO

iii. The detour or ramp closure, to the extent possible, will not interfere with any local special event or festival.

YES  NO

iv. The temporary road, detour or ramp closure

does not substantially change the environmental consequences of the action.

YES  NO

- v. There is no substantial controversy associated with the temporary road, detour or ramp closure.

YES  NO

If questions 3-20 are **NO**, 21 is **YES** and 22 (i-v) are YES, the project qualifies for a Programmatic Categorical Exclusion. You may STOP COMPLETING THE CHECKLIST. The checklist should be included in the appendix of the Final Design Report (or Scope Summary Memorandum/Final Design Report). The CATEGORICAL EXCLUSION DETERMINATION memo should be sent to the appropriate Main Office Design liaison unit with a copy of the Final Design Report (or Scope Summary Memorandum/Final Design Report.) A copy of the CATEGORICAL EXCLUSION DETERMINATION memo must also be sent to the Office of Budget and Finance, Project and Letting Management, and others.

**-OR-**

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If questions 3-20 are **NO** or effect is **clarified**, 21 is **YES** and any part of 22 is **NO**, go on to question 23.

23. Is the project section listed in 23 CFR ' 771.117(d) (D List) or is the project an action similar to those listed in 23 CFR ' 771.117(d)?

YES  NO

For those questions which precluded a Programmatic Categorical Exclusion, documentation should be provided for any **YES** response to questions 3-20 or for a **NO** response to any part of questions 22 (i-v). This documentation, as well as the checklist, should be included in the Design Approval Document, i.e., Final Design Report, etc., to be submitted to the Main Office/FHWA Design liaison unit for submission to the FHWA Division for classification of the project as a D List Categorical Exclusion, "Categorical Exclusion with Documentation".

Question 3: *Is the project on new location or does it involve a change in the functional classification or added mainline capacity (add through-traffic lanes)?*

Documentation: The removal of the Inner Loop Expressway (Principal Arterial – Expressway – NHS) will occur as part of the project improvements. Access through the corridor will be maintained via the combined infrastructure of Howell Street (Minor Urban Arterial - Non NHS) and Union Street (Minor Urban Arterial – Non NHS). Howell Street (Minor Urban Arterial) will be realigned however; the realignment will occur within the existing ROW over the location of the former expressway corridor.

Question 6: *Does the project involve changes in travel patterns?*

Documentation: This project will alter travel patterns through the Inner Loop corridor. The Inner Loop Expressway will be removed and the combined Howell Street and Union Street facilities will be upgraded from frontage roads to form continuous, two-way arterial urban streets. Traffic that currently uses the Inner Loop will use the new Howell and Union Street arterials. A detailed traffic analysis has been performed resulting in no significant impacts to surrounding facilities.

Question 15: *Does the project involve any change in access control?*

Documentation: The new corridor will no longer have full access control as it will be reconstructed as arterial urban streets.

Question 16: *Does the project involve any known hazardous materials sites or previous land uses with potential for hazardous material remains within the right-of-way?*

Documentation: A hazardous waste material screening has been completed along the project corridor. The screening identified several locations will be monitored during construction and if suspect materials are encountered they will be tested and handled according to regulations.



# **APPENDIX D**

## **SEQR Documentation**



**Full Environmental Assessment Form  
Part 1 - Project and Setting**

**Instructions for Completing Part 1**

**Part 1 is to be completed by the applicant or project sponsor.** Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

**A. Project and Sponsor Information.**

Name of Action or Project: Inner Loop East Reconstruction Project		
Project Location (describe, and attach a general location map): Inner Loop from East Main Street to South Clinton Avenue, Rochester, New York		
Brief Description of Proposed Action (include purpose or need): See Attachment #1		
Name of Applicant/Sponsor: City of Rochester, City Hall		Telephone:
		E-Mail:
Address: 30 Church Street		
City/PO: Rochester	State: New York	Zip Code: 14614
Project Contact (if not same as sponsor; give name and title/role): Mr. James McIntosh, P.E., City Engineer		Telephone: 585-428-6828
		E-Mail: Jim.McIntosh@cityofrochester.gov
Address: 30 Church Street		
City/PO: Rochester	State: New York	Zip Code: 14614
Property Owner (if not same as sponsor): State of New York		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

**B. Government Approvals**

<b>B. Government Approvals Funding, or Sponsorship.</b> ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance )		
<b>Government Entity</b>	<b>If Yes: Identify Agency and Approval(s) Required</b>	<b>Application Date (Actual or projected)</b>
a. City Council, Town Board, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No or Village Board of Trustees	Funding Land Transfers Official Map Amendment and acquisitions.	Pending
b. City, Town or Village <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Planning Board or Commission	Subdivision Approval	Pending
c. City Council, Town or <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Village Zoning Board of Appeals		
d. Other local agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See Attachment #2	Pending
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monroe County Department of Transportation - Traffic signal coordination	Pending
f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYS DOT - Design Approval, Land Transfer NYS DEC - SWPPP and Fill Material Approval	Pending
h. Federal agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	FHWA - Funding, project review	Pending
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? If Yes,		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**C. Planning and Zoning**

<b>C.1. Planning and zoning actions.</b>	
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<ul style="list-style-type: none"> <li>• If Yes, complete sections C, F and G.</li> <li>• If No, proceed to question C.2 and complete all remaining sections and questions in Part I</li> </ul>	
<b>C.2. Adopted land use plans.</b>	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, identify the plan(s): _____ _____	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, identify the plan(s): _____ _____	

**C.3. Zoning**

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance.  Yes  No  
 If Yes, what is the zoning classification(s) including any applicable overlay district?  
 See Figure 2. CCD-B, CCD-E, CCD-M, CCD-T \_\_\_\_\_

b. Is the use permitted or allowed by a special or conditional use permit?  Yes  No

c. Is a zoning change requested as part of the proposed action?  Yes  No  
 If Yes,  
 i. What is the proposed new zoning for the site? \_\_\_\_\_

**C.4. Existing community services.**

a. In what school district is the project site located? Rochester City School District

b. What police or other public protection forces serve the project site?  
Rochester Police Department

c. Which fire protection and emergency medical services serve the project site?  
Rochester Fire Department

d. What parks serve the project site?  
Wadsworth Park is adjacent to the project area

**D. Project Details**

**D.1. Proposed and Potential Development**

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational, if mixed, include all components)? Reconstruction of the existing highway infrastructure and mixed use development.

b. a. Total acreage of the site of the proposed action? \_\_\_\_\_ 24.6 acres  
 b. Total acreage to be physically disturbed? \_\_\_\_\_ 24.6 acres  
 c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? \_\_\_\_\_ 60% City 40% State acres

c. Is the proposed action an expansion of an existing project or use?  Yes  No  
 i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % \_\_\_\_\_ Units: \_\_\_\_\_

d. Is the proposed action a subdivision, or does it include a subdivision?  Yes  No  
 If Yes,  
 i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)  
Abandonment of the highway boundaries for purposes of future development  
 ii. Is a cluster/conservation layout proposed?  Yes  No  
 iii. Number of lots proposed? TBD  
 iv. Minimum and maximum proposed lot sizes? Minimum TBD Maximum TBD

e. Will proposed action be constructed in multiple phases?  Yes  No  
 i. If No, anticipated period of construction: \_\_\_\_\_ months  
 ii. If Yes:  
 • Total number of phases anticipated \_\_\_\_\_ TBD  
 • Anticipated commencement date of phase 1 (including demolition) Nov month 2014 year  
 • Anticipated completion date of final phase TBD month TBD year  
 • Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: \_\_\_\_\_  
See Attachment #3.

f. Does the project include new residential uses?  Yes  No  
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	TBD			
At completion of all phases	48	NA	NA	577

g. Does the proposed action include new non-residential construction (including expansions)?  Yes  No  
 If Yes,

i. Total number of structures +10

ii. Dimensions (in feet) of largest proposed structure: 2-6stories height; TBD width; and TBD length

iii. Approximate extent of building space to be heated or cooled: 100% square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage?  Yes  No  
 If Yes,

i. Purpose of the impoundment: \_\_\_\_\_

ii. If a water impoundment, the principal source of the water:  Ground water  Surface water streams  Other specify: \_\_\_\_\_

iii. If other than water, identify the type of impounded/contained liquids and their source. \_\_\_\_\_

iv. Approximate size of the proposed impoundment. Volume: \_\_\_\_\_ million gallons; surface area: \_\_\_\_\_ acres

v. Dimensions of the proposed dam or impounding structure: \_\_\_\_\_ height; \_\_\_\_\_ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): \_\_\_\_\_

**D.2. Project Operations**

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both?  Yes  No  
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i. What is the purpose of the excavation or dredging? Rebuild the highway infrastructure

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): None. Excavated material to remain
- Over what duration of time? Up to 3 years.

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.  
Excavation of highway infrastructure (including pavement and sidewalks) to be reused as fill on-site.

iv. Will there be onsite dewatering or processing of excavated materials?  Yes  No  
 If yes, describe. \_\_\_\_\_

v. What is the total area to be dredged or excavated? 14.3 acres

vi. What is the maximum area to be worked at any one time? 14.3 acres

vii. What would be the maximum depth of excavation or dredging? 10 feet

viii. Will the excavation require blasting?  Yes  No

ix. Summarize site reclamation goals and plan: \_\_\_\_\_

Approximately 120,000 cubic yards of clean fill will be brought in to bring the project site up to the needed grade. Clean fill will be transported to the project site via the adjacent roadway network over an estimated three year period as fill material becomes available. A new Roadway network, greenspace and developable parcels will be constructed.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area?  Yes  No  
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): \_\_\_\_\_

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:  
There are no waterbodies or wetlands present within the project area

iii. Will proposed action cause or result in disturbance to bottom sediments?  Yes  No  
If Yes, describe: \_\_\_\_\_

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation?  Yes  No  
If Yes:

- acres of aquatic vegetation proposed to be removed \_\_\_\_\_
- expected acreage of aquatic vegetation proposed to be removed \_\_\_\_\_
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): \_\_\_\_\_
- proposed method of plant removal: \_\_\_\_\_
- if chemical/herbicide treatment will be used, specify product(s): \_\_\_\_\_

v. Describe any proposed reclamation/mitigation following disturbance: \_\_\_\_\_

c. Will the proposed action use, or create a new demand for water?  Yes  No  
If Yes:

i. Total anticipated water usage/demand per day: 158,522 gallons/day

ii. Will the proposed action obtain water from an existing public water supply?  Yes  No  
If Yes:

- Name of district or service area: City of Rochester Water Bureau
- Does the existing public water supply have capacity to serve the proposal?  Yes  No
- Is the project site in the existing district?  Yes  No
- Is expansion of the district needed?  Yes  No
- Do existing lines serve the project site?  Yes  No

iii. Will line extension within an existing district be necessary to supply the project?  Yes  No  
If Yes:

- Describe extensions or capacity expansions proposed to serve this project: \_\_\_\_\_
- Source(s) of supply for the district: City of Rochester Water Bureau

iv. Is a new water supply district or service area proposed to be formed to serve the project site?  Yes  No  
If Yes:

- Applicant/sponsor for new district: \_\_\_\_\_
- Date application submitted or anticipated: \_\_\_\_\_
- Proposed source(s) of supply for new district: \_\_\_\_\_

v. If a public water supply will not be used, describe plans to provide water supply for the project: \_\_\_\_\_

vi. If water supply will be from wells (public or private), maximum pumping capacity: \_\_\_\_\_ gallons/minute.

d. Will the proposed action generate liquid wastes?  Yes  No  
If Yes:

i. Total anticipated liquid waste generation per day: 158,522 gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial, if combination, describe all components and approximate volumes or proportions of each): Sanitary Wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities?  Yes  No  
If Yes:

- Name of wastewater treatment plant to be used: Van Lare Sewage Treatment Plant
- Name of district: Rochester District
- Does the existing wastewater treatment plant have capacity to serve the project?  Yes  No
- Is the project site in the existing district?  Yes  No
- Is expansion of the district needed?  Yes  No

• Do existing sewer lines serve the project site?  Yes  No  
 • Will line extension within an existing district be necessary to serve the project?  Yes  No  
 If Yes:  
 • Describe extensions or capacity expansions proposed to serve this project: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?  Yes  No  
 If Yes:  
 • Applicant/sponsor for new district: \_\_\_\_\_  
 • Date application submitted or anticipated: \_\_\_\_\_  
 • What is the receiving water for the wastewater discharge? \_\_\_\_\_  
 v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):  
 N/A  
 \_\_\_\_\_  
 \_\_\_\_\_

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: \_\_\_\_\_  
 None  
 \_\_\_\_\_  
 \_\_\_\_\_

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction?  Yes  No  
 If Yes:  
 i. How much impervious surface will the project create in relation to total size of project parcel?  
 \_\_\_\_\_ Square feet or 24.6 acres (impervious surface)  
 \_\_\_\_\_ Square feet or 24.6 acres (parcel size)  
 ii. Describe types of new point sources. Pavement, sidewalks, roof drain runoff to the existing City of Rochester sewer system.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?  
Stormwater Sewer Inlets  
 \_\_\_\_\_  
 \_\_\_\_\_  
 • If to surface waters, identify receiving water bodies or wetlands: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 • Will stormwater runoff flow to adjacent properties?  Yes  No  
 iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?  Yes  No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations?  Yes  No  
 If Yes, identify:  
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)  
 \_\_\_\_\_  
 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)  
 \_\_\_\_\_  
 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)  
 \_\_\_\_\_  
 \_\_\_\_\_

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?  Yes  No  
 If Yes:  
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year)  Yes  No  
 ii. In addition to emissions as calculated in the application, the project will generate:  
 • \_\_\_\_\_ Tons/year (short tons) of Carbon Dioxide (CO<sub>2</sub>)  
 • \_\_\_\_\_ Tons/year (short tons) of Nitrous Oxide (N<sub>2</sub>O)  
 • \_\_\_\_\_ Tons/year (short tons) of Perfluorocarbons (PFCs)  
 • \_\_\_\_\_ Tons/year (short tons) of Sulfur Hexafluoride (SF<sub>6</sub>)  
 • \_\_\_\_\_ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)  
 • \_\_\_\_\_ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)



h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)?  Yes  No

If Yes:

i. Estimate methane generation in tons/year (metric): \_\_\_\_\_

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): \_\_\_\_\_

---

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations?  Yes  No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): \_\_\_\_\_

---

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services?  Yes  No

If Yes:

i. When is the peak traffic expected (Check all that apply):  Morning  Evening  Weekend  
 Randomly between hours of \_\_\_\_\_ to \_\_\_\_\_.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: \_\_\_\_\_ Unknown

iii. Parking spaces: Existing \_\_\_\_\_ Unknown \_\_\_\_\_ Proposed 1,385 Net increase/decrease \_\_\_\_\_ Unknown

iv. Does the proposed action include any shared use parking?  Yes  No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:  
See project description and Figure 1.

---

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site?  Yes  No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles?  Yes  No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes?  Yes  No

---

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy?  Yes  No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: \_\_\_\_\_  
Coordination with Rochester Gas & Electric will occur once future development uses are known

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):  
Rochester Gas and Electric

iii. Will the proposed action require a new, or an upgrade to, an existing substation?  Yes  No

---

l. Hours of operation. Answer all items which apply.

i. During Construction:		ii. During Operations:	
• Monday - Friday:	<u>7:00 am - 5:00 pm</u>	• Monday - Friday:	<u>TBD</u>
• Saturday:	<u>As needed, 7:00 am - 5:00 pm</u>	• Saturday:	<u>TBD</u>
• Sunday:	<u>No</u>	• Sunday:	<u>TBD</u>
• Holidays:	<u>No</u>	• Holidays:	<u>TBD</u>

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?  Yes  No  
 If yes:  
 i. Provide details including sources, time of day and duration:  
Construction activities during hours described in previous section

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen?  Yes  No  
 Describe: Inner Loop is below grade, sidewalls will be removed via grading.

---

n. Will the proposed action have outdoor lighting?  Yes  No  
 If yes:  
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:  
Existing street lighting fixtures will be replaced as part of the project. Specific details will be determined by the City Street Lighting Division

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen?  Yes  No  
 Describe: \_\_\_\_\_

---

o. Does the proposed action have the potential to produce odors for more than one hour per day?  Yes  No  
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:  
 \_\_\_\_\_  
 \_\_\_\_\_

---

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products (185 gallons in above ground storage or an amount in underground storage)?  Yes  No  
 If Yes:  
 i. Product(s) to be stored \_\_\_\_\_  
 ii. Volume(s) \_\_\_\_\_ per unit time \_\_\_\_\_ (e.g., month, year)  
 iii. Generally describe proposed storage facilities: \_\_\_\_\_

---

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation?  Yes  No  
 If Yes:  
 i. Describe proposed treatment(s):  
 \_\_\_\_\_  
 \_\_\_\_\_

ii. Will the proposed action use Integrated Pest Management Practices?  Yes  No

---

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?  Yes  No  
 If Yes:  
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:  
 • Construction: 12,000 cubic yards tons per 3 years (unit of time)  
 • Operation: TBD tons per Month (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:  
 • Construction: Roadway demolition debris will be reused on-site for fill.  
 \_\_\_\_\_  
 • Operation: TBD  
 \_\_\_\_\_

iii. Proposed disposal methods/facilities for solid waste generated on-site:  
 • Construction: Excavation of roadway millings.  
 \_\_\_\_\_  
 • Operation: Sanitary waste to be hauled by City of Rochester to a NYSDEC approved landfill facility.  
 \_\_\_\_\_

s. Does the proposed action include construction or modification of a solid waste management facility?  Yes  No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): \_\_\_\_\_

ii. Anticipated rate of disposal/processing:

- \_\_\_\_\_ Tons/month, if transfer or other non-combustion/thermal treatment, or
- \_\_\_\_\_ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: \_\_\_\_\_ years

---

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste?  Yes  No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: \_\_\_\_\_

\_\_\_\_\_

ii. Generally describe processes or activities involving hazardous wastes or constituents: \_\_\_\_\_

\_\_\_\_\_

iii. Specify amount to be handled or generated \_\_\_\_\_ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: \_\_\_\_\_

\_\_\_\_\_

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility?  Yes  No

If Yes: provide name and location of facility: \_\_\_\_\_

\_\_\_\_\_

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: \_\_\_\_\_

\_\_\_\_\_

**E. Site and Setting of Proposed Action**

**E.1. Land uses on and surrounding the project site**

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

Urban  Industrial  Commercial  Residential (suburban)  Rural (non-farm)

Forest  Agriculture  Aquatic  Other (specify): \_\_\_\_\_

ii. If mix of uses, generally describe:

Above listed uses are intermixed in an urban development setting

\_\_\_\_\_

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	24.6	24.6	0
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation?  Yes  No  
 i. If Yes: explain: \_\_\_\_\_

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?  Yes  No  
 If Yes,  
 i. Identify Facilities:  
World of Inquiry School #58, 200 University Avenue

e. Does the project site contain an existing dam?  Yes  No  
 If Yes:  
 i. Dimensions of the dam and impoundment:  
 • Dam height: \_\_\_\_\_ feet  
 • Dam length: \_\_\_\_\_ feet  
 • Surface area: \_\_\_\_\_ acres  
 • Volume impounded: \_\_\_\_\_ gallons OR acre-feet  
 ii. Dam's existing hazard classification: \_\_\_\_\_  
 iii. Provide date and summarize results of last inspection:  
 \_\_\_\_\_

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility?  Yes  No  
 If Yes:  
 i. Has the facility been formally closed?  Yes  No  
 • If yes, cite sources/documentation: \_\_\_\_\_  
 ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:  
 \_\_\_\_\_  
 iii. Describe any development constraints due to the prior solid waste activities: \_\_\_\_\_

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?  Yes  No  
 If Yes:  
 i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:  
 \_\_\_\_\_

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?  Yes  No  
 If Yes:  
 i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:  Yes  No  
 Yes – Spills Incidents database Provide DEC ID number(s): Appendix A  
 Yes – Environmental Site Remediation database Provide DEC ID number(s): Appendix A  
 Neither database  
 ii. If site has been subject of RCRA corrective activities, describe control measures:  
 \_\_\_\_\_  
 iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database?  Yes  No  
 If yes, provide DEC ID number(s): See Preliminary Screening Report (Appendix A.)  
 iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):  
 \_\_\_\_\_

v. Is the project site subject to an institutional control limiting property uses?  Yes  No

- If yes, DEC site ID number: \_\_\_\_\_
- Describe the type of institutional control (e.g., deed restriction or easement): \_\_\_\_\_
- Describe any use limitations: \_\_\_\_\_
- Describe any engineering controls: \_\_\_\_\_
- Will the project affect the institutional or engineering controls in place?  Yes  No
- Explain: \_\_\_\_\_

---

**E.2. Natural Resources On or Near Project Site**

a. What is the average depth to bedrock on the project site? \_\_\_\_\_ 10 +/- \_\_\_\_\_ feet

b. Are there bedrock outcroppings on the project site?  Yes  No  
 If Yes, what proportion of the site is comprised of bedrock outcroppings? \_\_\_\_\_ %

c. Predominant soil type(s) present on project site:

Urban Land	_____	80 %
Other	_____	20 %
		_____ %

d. What is the average depth to the water table on the project site? Average: \_\_\_\_\_ 10 feet

e. Drainage status of project site soils:  Well Drained: \_\_\_\_\_ 10 % of site  
 Moderately Well Drained: \_\_\_\_\_ % of site  
 Poorly Drained \_\_\_\_\_ 90 % of site

f. Approximate proportion of proposed action site with slopes:  0-10%: \_\_\_\_\_ 100 % of site  
 10-15%: \_\_\_\_\_ % of site  
 15% or greater: \_\_\_\_\_ % of site

g. Are there any unique geologic features on the project site?  Yes  No  
 If Yes, describe: \_\_\_\_\_

---

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)?  Yes  No

ii. Do any wetlands or other waterbodies adjoin the project site?  Yes  No  
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency?  Yes  No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name \_\_\_\_\_ Classification \_\_\_\_\_
- Lakes or Ponds: Name \_\_\_\_\_ Classification \_\_\_\_\_
- Wetlands: Name \_\_\_\_\_ Approximate Size \_\_\_\_\_
- Wetland No. (if regulated by DEC) \_\_\_\_\_

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies?  Yes  No  
 If yes, name of impaired water body/bodies and basis for listing as impaired: \_\_\_\_\_

---

i. Is the project site in a designated Floodway?  Yes  No

j. Is the project site in the 100 year Floodplain?  Yes  No

k. Is the project site in the 500 year Floodplain?  Yes  No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer?  Yes  No  
 If Yes:  
*i.* Name of aquifer: \_\_\_\_\_

m. Identify the predominant wildlife species that occupy or use the project site: _____ None _____ None _____ None _____	
n. Does the project site contain a designated significant natural community? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If Yes:	
<i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____	
<i>ii.</i> Source(s) of description or evaluation: _____	
<i>iii.</i> Extent of community/habitat:	
<ul style="list-style-type: none"> <li>• Currently: _____ acres</li> <li>• Following completion of project as proposed: _____ acres</li> <li>• Gain or loss (indicate + or -): _____ acres</li> </ul>	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>	
American Burying Beetle (Rare Animal) was listed but no longer exists in the project vicinity. See Attachment Number 3.	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>	
The American Burying Beetle appears on the NYSDEC list of rare animals. However, this species is no longer present in NYS.	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If yes, give a brief description of how the proposed action may affect that use: _____ _____	
<b>E.3. Designated Public Resources On or Near Project Site</b>	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If Yes:	
<i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If Yes:	
<i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

c. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District	
<i>ii.</i> Name: <u>See Attachment #4</u>	
<i>iii.</i> Brief description of attributes on which listing is based: <u>See Cultural Resources Study</u>	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	
If Yes:	
<i>i.</i> Describe possible resource(s): <u>See Cultural Resources Study</u>	
<i>ii.</i> Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
<i>i.</i> Identify resource: _____	
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____	
<i>iii.</i> Distance between project and resource: _____ miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
<i>i.</i> Identify the name of the river and its designation: _____	
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

**F. Additional Information**

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

**G. Verification**

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Thomas Richards

Date 12/23/2003

Signature 

Title Mayor, City of Rochester

**PRINT FORM**

**RESET FORM**

## **Attachment #1**

The Inner Loop East Reconstruction Project consists of the removal of an urban expressway known as the "Inner Loop" through the SE quadrant of the City of Rochester downtown area. The conceptual project originated in the early 1990's and has been a part of the City of Rochester's comprehensive plan ever since. The project will remove excess highway infrastructure (replacing the existing 10 - 12 lane section with a 3 - 5 lane section) from Clinton Street South to East Main Street and provide a "complete Street" facility that is properly scaled to the regional and local needs. The "complete street" design approach incorporates balanced pedestrian, bicycle and vehicle needs throughout the project corridor. Approximately 120,000 cubic yards of clean fill will need to be imported to bring the project site up to the needed grade. Fill material will come from other City of Rochester project sites, as well as from other private and public projects as needed.

The project will incorporate innovative design concepts for pedestrian and bicyclist including a cycle track that will provide cyclists with their own designated travel way separated from vehicular traffic. The proposed roadway would be constructed along the existing street alignments (Union, Howell and Pitkin Streets) and reestablish the original street grid network that provided connectivity between the adjoining neighborhoods and downtown that existed prior to the urbanization and construction of the expressway. As a secondary benefit, the removal of the excess highway infrastructure will provide the City with a unique opportunity to create additional land that could be developed within the downtown area. This potential development would be progressed in the future by the City of Rochester to fit the vision and character of the surrounding neighborhoods.

As part of the Real Estate Market Analysis Report, it was estimated that the land created by the Project could support between 428,000 and 795,000 square feet (SF) of development. The most intensive development scenario envisioned for the Project includes 795,062 SF, which includes 625 residential units. Approximately ten (10) parcels would be created to accommodate this development over time.

## **Attachment #2**

Other local agencies that need to approve, fund or sponsor the Project include:

- Mayor, City of Rochester – same as "a" above;
- Director of Planning and Zoning – Site Plan Approval;
- Commissioner of Neighborhood & Business Development – Site Preparation permit;
- TCB – approval of pavement width changes, parking changes, etc.



### **Attachment #3**

The multi-faceted Project includes the following physical and legal components. Please note that some of these components will occur sequentially, while others will progress concurrently over time.

- 1) Right of Way (ROW) abandonment and transfer to from NYSDOT to City of Rochester;
- 2) Rebuild the adjacent roads (Howell, Union and Pitkin Streets);
- 3) Demolish the existing Inner Loop;
- 4) Filling of the Inner Loop to the needed grade. Approximately 120,000 cubic yards of clean fill needed to be brought on-site;
- 5) Obtain "Official Map Amendment" (OMA) to establish the new ROW;
- 6) Subdivision of non-ROW needed land to create new parcels;
- 7) Development of the newly created parcels.

Approximately three (3) years are needed to complete the first six (6) components, from start to finish. The development of the new parcels will be by private developers and subject to market conditions, funding, etc.

### **Attachment #4**

Attachment #4, "Cultural Resource Study – Inner Loop East Reconstruction Project" is provided under separate cover. The CRS contains a Phase 1A Cultural Resources Survey and a Phase 1B Archaeological and Architectural Survey of the project area.

Two historic archaeological sites have been identified, however, no further archaeological work was recommended for the Project, save for the construction monitoring to mitigate the effects unanticipated impacts or discoveries at two locations. The two sites were designated George Crouch (A05540.009184, UB 4409) site and the Amos Burrows (A05540.009185, UB 4410) site.

Please see pages 35-59 of the Phase 1B Archaeological and Architectural Reconnaissance Survey for descriptions of the attributes for three National Register Listed (NRL) properties, four National register eligible (NRE) properties, two NRE Historic Districts, and three non-NRE properties associated with the project area.

**Full Environmental Assessment Form**  
**Part 2 - Identification of Potential Project Impacts**

**Part 2 is to be completed by the lead agency.** Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency and the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

**Tips for completing Part 2:**

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

<b>1. Impact on Land</b> Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <span style="float: right;"><input type="checkbox"/> NO <input checked="" type="checkbox"/> YES</span> <i>If "Yes", answer questions a - j. If "No", move on to Section 2.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: <u>Impacts from future development parcels, importing of needed fill, and stormwater and utilities.</u>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

**2. Impact on Geological Features**  
 The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1, E.2.g)  NO  YES  
*If "Yes", answer questions a - c. If "No", move on to Section 3.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

**3. Impacts on Surface Water**  
 The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1, D.2, E.2.h)  NO  YES  
*If "Yes", answer questions a - l. If "No", move on to Section 4.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input type="checkbox"/>	<input type="checkbox"/>

l. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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**4. Impact on groundwater**  
 The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer.  NO  YES  
 (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)  
 If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

**5. Impact on Flooding**  
 The proposed action may result in development on lands subject to flooding.  NO  YES  
 (See Part 1. E.2)  
 If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2l, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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<b>6. Impacts on Air</b> The proposed action may include a state regulated air emission source. <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>			
	<b>Relevant Part I Question(s)</b>	<b>No, or small impact may occur</b>	<b>Moderate to large impact may occur</b>
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO <sub>2</sub> )	D2g	<input type="checkbox"/>	<input type="checkbox"/>
ii. More than 3.5 tons/year of nitrous oxide (N <sub>2</sub> O)	D2g	<input type="checkbox"/>	<input type="checkbox"/>
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	<input type="checkbox"/>	<input type="checkbox"/>
iv. More than .045 tons/year of sulfur hexafluoride (SF <sub>6</sub> )	D2g	<input type="checkbox"/>	<input type="checkbox"/>
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	<input type="checkbox"/>	<input type="checkbox"/>
vi. 43 tons/year or more of methane	D2h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

<b>7. Impact on Plants and Animals</b> The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>			
	<b>Relevant Part I Question(s)</b>	<b>No, or small impact may occur</b>	<b>Moderate to large impact may occur</b>
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input type="checkbox"/>	<input type="checkbox"/>

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

<b>8. Impact on Agricultural Resources</b>			
The proposed action may impact agricultural resources. (See Part I. E.3.a. and b.)		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	<b>Relevant Part I Question(s)</b>	<b>No, or small impact may occur</b>	<b>Moderate to large impact may occur</b>
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

<b>9. Impact on Aesthetic Resources</b> The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part I. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2-3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

<b>10. Impact on Historic and Archeological Resources</b> The proposed action may occur in or adjacent to a historic or archaeological resource. (Part I. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>			
		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input checked="" type="checkbox"/>	<input type="checkbox"/>

d. Other impacts: Presence of two (2) historic archeological sites. Both appear to be National Register eligible		<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. If any of the above (a-d) are answered "Yes", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**11. Impact on Open Space and Recreation**  
 The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.  NO  YES  
 (See Part 1. C.2.c. E.1.e., E.2.q.)  
*If "Yes", answer questions a - e. If "No", go to Section 12.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b, E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c, E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>
e. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

**12. Impact on Critical Environmental Areas**  
 The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)  NO  YES  
*If "Yes", answer questions a - c. If "No", go to Section 13.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>



**13. Impact on Transportation**  
 The proposed action may result in a change to existing transportation systems.  NO  YES  
 (See Part 1. D.2.j)  
*If "Yes", answer questions a - g. If "No", go to Section 14.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

**14. Impact on Energy**  
 The proposed action may cause an increase in the use of any form of energy.  NO  YES  
 (See Part 1. D.2.k)  
*If "Yes", answer questions a - e. If "No", go to Section 15.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Other Impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

**15. Impact on Noise, Odor, and Light**  
 The proposed action may result in an increase in noise, odors, or outdoor lighting.  NO  YES  
 (See Part 1. D.2.m., n., and o.)  
*If "Yes", answer questions a - f. If "No", go to Section 16.*

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

<b>16. Impact on Human Health</b> The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - m. If "No", go to Section 17.</i>			
	<b>Relevant Part I Question(s)</b>	<b>No, or small impact may occur</b>	<b>Moderate to large impact may occur</b>
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____ _____			

<b>17. Consistency with Community Plans</b> The proposed action is not consistent with adopted land use plans. (See Part 1. C.1, C.2, and C.3.) <i>If "Yes", answer questions a - h. If "No", go to Section 18.</i>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	<b>Relevant Part I Question(s)</b>	<b>No, or small impact may occur</b>	<b>Moderate to large impact may occur</b>		
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>		
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>		
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1e, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>		
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>		
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>		
h. Other: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

<b>18. Consistency with Community Character</b> The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) <i>If "Yes", answer questions a - g. If "No", proceed to Part 3.</i>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	<b>Relevant Part I Question(s)</b>	<b>No, or small impact may occur</b>	<b>Moderate to large impact may occur</b>		
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>		
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>		
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>		
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>		
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

**Full Environmental Assessment Form**  
**Part 3 - Evaluation of the Magnitude and Importance of Project Impacts**  
**and**  
**Determination of Significance**

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

**Reasons Supporting This Determination:**

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

**Determination of Significance - Type 1 and Unlisted Actions**

SEQR Status:       Type 1                       Unlisted

Identify portions of EAF completed for this Project:    Part 1               Part 2               Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information  
Various supplemental studies and assessments, including a Noise Analysis, Air Quality Analysis, Hazardous Waste Assessment, Asbestos Assessment, Cultural Resource Investigation, Visual Impact Assessment, Traffic Study, and the NEPA Environmental Assessment (EA).

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the  
Mayor, City of Rochester \_\_\_\_\_ as lead agency that:

A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).

C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Inner Loop East Reconstruction Project

Name of Lead Agency: City of Rochester

Name of Responsible Officer in Lead Agency: Mayor Thomas S. Richards

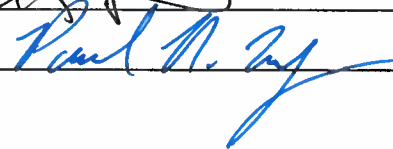
Title of Responsible Officer: Mayor

Signature of Responsible Officer in Lead Agency:



Date: 12/23/2013

Signature of Preparer (if different from Responsible Officer)



Date: 12-23-2013

**For Further Information:**

Contact Person: Mr. James R. McIntosh, P.E., City Engineer  
Address: City Hall, Room 300B, 30 Church Street, Rochester, NY 14614  
Telephone Number: 585-428-6828  
E-mail: Jim.McIntosh@cityofrochester.gov

**For Type I Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:**

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)  
Other involved agencies (if any)  
Applicant (if any)  
Environmental Notice Bulletin: <http://www.dec.ny.gov/enb/enb.html>

## **EAF Part 3 – Evaluation of the Magnitude and Importance of Project Impacts**

**And**

### **Determination of Significance**

In completing Part 2 of the Environmental Assessment Form for the proposed Inner Loop East Reconstruction Project (Project), information and results from the following reports and studies were used in the identification of potential project impacts:

- Cultural Resources Study (Dept. of Anthropology, State University of New York)
- Noise Analysis Report (Watts Architecture and Engineering);
- Air Quality Analysis Report (Watts Architecture and Engineering);
- Hazardous Waste/Contaminated Materials Assessment (Watts Engineering and Architecture);
- Asbestos Assessment (Watts Engineering and Architecture);
- Visual Impact Assessment (Stantec Consulting Ltd.);
- Traffic Study (Stantec Consulting Ltd.) and
- Social, Economic and Environmental Conditions and Consequences (NEPA Environmental Assessment prepared by Stantec Consulting Ltd.)

Part 3 of the EAF evaluates every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will, or may, result in a significant adverse environmental impact. The following potential impacts were identified as potentially moderate to large and are evaluated further.

#### **Impact on Land**

The Inner Loop East Reconstruction Project will physically change the grade of the existing land surface within the proposed 24.6 acre project corridor. The project consists of the removal of an urban expressway known as the "Inner Loop" through the SE quadrant of the City of Rochester downtown area. The project will remove excess highway infrastructure (replacing the existing 10 - 12 lane section with a 3 - 5 lane section) from Clinton Avenue South to East Main Street and provide a "complete Street" facility that is properly scaled to the regional and local needs. The "complete street" design approach incorporates balanced pedestrian, bicycle and vehicle needs throughout the project corridor.

Approximately 120,000 cubic yards of clean fill will need to be imported to bring the project site up to the needed grade. The construction phase is expected to occur for more than one year. The sources of the needed fill, assurances and provisions to insure the fill is "clean fill" and not hazardous. The raising of the grade may also have an impact of stormwater and drainage collection and conveyance, as well as other public and private utilities.

Once the final grades have been obtained and the complete street design has been established, the Project will create development parcels that can accommodate up to 795,000 square feet of mixed-use real estate development. Given these project features, the following potentially

“moderate to large” impacts have been identified and are presented below in order to explain why that particular element of the proposed action will not result in a significant adverse impact:

- Construction Related Impacts,
- Import of Needed Fill Material;
- Stormwater and Utilities; and
- Future Development Related Impacts

***Construction Related Impacts:***

The single most notable construction-related impacts involve disruption to local travel patterns and construction-related noise impacts. Disruption to local travel patterns will occur as a result of temporary detours and congestion due to construction activities. While to some extent these impacts are unavoidable, they can be mitigated via proper signage for detour routes and continual updates to neighbors and businesses in the project area.

The construction activities will include excavation, sub-base preparation, roadway millings, placement of fill via dump trucks, and other miscellaneous work.

Construction noise will occur, however, construction noise differs from normal traffic noise in the following ways:

- Construction noise only lasts for the duration of the construction contract;
- Construction activities are usually limited to the daylight hours when most human activity takes place;
- Construction activities are generally short term; and
- Construction noise is intermittent and depends on the type of operation.

Certain mitigation measures can be incorporated into the contract documents to reduce construction noise in the project area. The following mitigation strategies are likely to be used for this project:

- Use of exhaust systems in good working order, engine enclosures and intake silencers;
- Regular equipment maintenance;
- Use of new equipment subject to new product noise emission standards;
- Placement of stationary equipment as far away from sensitive receptors as possible;
- Strategic choice of staging sites; and
- Limitations on work hours.

The project will incur similar construction related impacts, including dust as other City of Rochester transportation reconstruction projects have in the past. The contractor will be required to control construction generated air pollution as specified in Section 107-11 of the NYSDOT Standard Specifications – Air Quality Protection.

As with all City of Rochester roadway reconstruction projects, all construction related activities will be monitored during the entire construction phase for conformance by the City of Rochester Construction Division and consultant inspection staff to ensure that construction impacts are minimized.

***Import of Needed Fill:***

Fill material will come from other City of Rochester project sites, as well as from other private and public projects as needed. Given the unknown sources of most of the needed fill material at this time, assurances that the fill is both suitable and non-contaminated are needed.

The selected contractor will be responsible to acquire all materials required to the construction of the project. During construction, the contractor will be required to identify all material sources, which are also subject to approval by the City of Rochester.

The contractor will be required to control construction generated pollution as specified in Section 106 of the NYSDOT Standard Specifications – Construction and Materials, and Section 205 – Contaminated Soils. These standard specifications identify:

- A description of what soil contamination includes;
- Segregation and storage of contaminated soil encountered during excavation;
- Field Organic Vapor Monitoring;
- Sampling and Analysis;
- Transportation and Disposal; and
- Reuse of Contaminated Soil

During construction, all operations will be closely monitored by the consultant inspection staff. Should suspect materials be encountered, the inspection staff will notify the City of Rochester Department of Environmental Quality to ensure that proper measures are taken. In addition to the NYSDOT Standard Specifications stated above, the contractor can require sampling of suspect material in accordance with the NYSDEC "DER/10 Technical Guidance for Site Investigation and Remediation". More specifically, suspect fill material can be chemically tested to ensure that it does not exceed the allowable constituent levels for imported fill or soil provided in Appendix 5.

***Stormwater and Utilities:***

The raising of the grade throughout the project corridor will alter the existing storm sewer system. The collection and conveyance of stormwater will be change .

Drainage along the project corridor consists of a closed drainage system with drainage inlets along the medians and shoulders. The drainage system has various sizes and types of drainage conduit. The corridor contains curbing with the exception of the depressed Inner Loop mainline segments that utilizes concrete gutters adjacent to the retaining walls to convey surface flows to the drainage inlets.

The closed drainage system along the Inner Loop mainline drains to a storm sewer line that is in the center median of the Inner Loop. The storm sewer then discharges to the combined sewer system at both the north and south ends. The Union Street stormwater runoff generally flows north and continues along the Main Street corridor to the northeast. The Pitkin Street stormwater runoff drains into a storm sewer along Pitkin Street that outfall's into the combined sewer system as well. The Howell Street stormwater runoff flows toward Monroe Avenue and continues southeast along Monroe Avenue.



All of the existing stormwater drainage systems within the project limits connect to the combined sewer system before eventually discharging to the overflow tunnel system and then to the Van Lare sewage treatment facility.

The proposed Project calls for a reduction in the amount of impervious surfaces, with an increase in the amount of pervious surfaces. The entire project area (Inner Loop plus Right-of-Way) is essentially impervious today. The proposed project does call for a reduction in the amount of impervious surfaces, primarily from the incorporation of pervious surfaces in the redevelopment parcels (green space, lawn area, etc.) and pervious pavement used for the cycle track. It is difficult to quantify the amount of pervious surfaces at this juncture given that the specific location and amount of pervious surfaces will be determined by future developers and subject to site plan review/approval.

The existing drainage system is generally in fair working condition. There are areas however where the existing drainage structures are deteriorated due to wear and tear and therefore should be addressed, while other isolated areas on the pavement surface frequently pond during rain events due to imperfections in the pavement surface and/or inadequately positioned drainage structures.

The existing drainage system improvements will be limited to catch basin replacements, and supplemental catch basin installations where needed, to provide adequate roadway drainage throughout the corridor. The existing Inner Loop drainage system will be abandoned and a section of the existing combined sewer along the Inner Loop from Broad Street to Richmond Street will be relocated. In addition a 6" underdrain system with curb installed along the proposed curb line to enhance subsurface pavement drainage. Manhole frames and covers will also be replaced.

#### ***Future Development Related Impacts:***

Once the final grades have been obtained and the complete street design has been established, the Project will create development parcels that can accommodate up to 795,000 square feet of mixed use real estate development.

Over the last 19 years, the City of Rochester has completed various initiatives focused on revitalizing the Center City and the surrounding neighborhoods in order to rejuvenate districts, thus providing for future economic opportunities in order to be able to compete in the global marketplace. These City initiatives have included:

- *The Vision 2000 Plan;*
- *The Neighbors Building Neighborhoods Program;*
- *City of Rochester's Inner Loop Improvement Study, 2001;*
- *Center City Master Plan, 2003;*
- *Rochester Regional Community Design Center – Charrette – A Community Based Vision Plan for Downtown Rochester, 2007;*
- *The Renaissance 2010 Comprehensive Plan;* and
- *GTC Long Range Transportation Plan*

During the initial Inner Loop Improvement Study, various land use evaluations were undertaken for the reclaimed land in the corridor that would be created. This land recovery allows for future

land use opportunities and the potential to physically and visually connect the Central Business District to the adjacent neighborhoods. The 2001 study identified opportunities for residential neighborhood extensions, commercial development, and open space, in the range of 9.4 acres of new land depending on the at-grade road alignment and width characteristics. Since then, various community initiatives have taken a serious look at desired land uses and densities, resulting in several recommendations surrounding the Southeast Loop area. The 2003 Center City Master Plan and the 2007 Downtown Charrette process helped to formulate a vision on the desired community characteristics that can be considered in this area, including the need to:

- *Create a major gateway at the east end of Main Street,*
- *Create new development sites for civic space, new development and parking,*
- *Create new infill development that complements the historic housing stock along South Union Street,*
- *Reconnect Monroe Avenue to downtown through the addition of continuous building frontages,*
- *Expand and improve Manhattan Square Park and create a major civic space in front of the Strong Museum,*
- *Extend Woodbury Boulevard to improve connections and new opportunities for infill development,*
- *Create new neighborhoods that provide a built-in-constituency for Manhattan Square Park and other downtown destinations,*
- *Narrow Broad Street to provide new building sites that would create a stronger public realm.*

The future development of these parcels will accomplish and promote the various community characteristics identified above. Each development parcel will be subject to review by the City of Rochester as developers come forward and site plans are prepared. Each development parcel will be reviewed for consistency with the Center City Master Plan and other applicable City codes.

## **Impact on Historic and Archaeological Resources**

The following Cultural Resource Studies were completed for this project:

- Phase 1A Cultural Resource Survey for the Inner Loop East Reconstruction Project completed by the Department of Anthropology, State University of New York at Buffalo. (February 2013)
- Phase 1B Archaeological and Architectural Reconnaissance Survey for the Inner Loop East Reconstruction Project NY Route 940T completed by the Department of Anthropology, State University of New York at Buffalo. (May 2013)
- Phase 2 Archaeological Reconnaissance Survey for the Inner Loop East Reconstruction Project NY Route 940T completed by the Department of Anthropology, State University of New York at Buffalo. (December 2013).

According to the National Register (NR) of Historic Places, there are no historic properties eligible, or listed, within the project's area of potential effect.

A Phase I archeological survey was conducted to determine the presence of archeological resources. As a result of the survey, two (2) locations within the project area contained sufficient resources to declare them as being historic archeological sites.

The first site, referred to as the George Crouch site (A05540.009184) (UB4409), is located on South Union Street at the Howell Street intersection. Findings from shovel test pit explorations revealed the presence of past domestic refuse. However, considering that the proposed impacts to this area consist of shallow excavations associated with sidewalk installation, monitoring of excavations for potential unexpected artifacts during construction would be sufficient.

Artifacts associated with the G. Crouch site were recovered within both fill and partially disturbed natural horizon soils from a low-to-moderate density broadcast midden scatter identified within topsoil, fill and buried A-Horizon contexts. These materials included a variety of early-19th to mid-20th century ceramic and glass food related artifacts, as well as a number of highly oxidized ferrous metal fragments believed to be nail fragments. However, due to the site's position relatively far away to the northwest of the associate historic map documented structure; it is difficult to directly associate these remains to the G. Crouch site's documented residential occupants. It is most likely that many of these artifacts were deposited in the form of roadside debris.

Based on these results, the site's research potential has been exhausted by the combined Phase 1B / Phase 2 testing procedures that have already been completed. Further, the G. Crouch Site does not appear eligible for listing on the National Register of Historic Places. No further archaeological investigations are recommended, however, construction monitoring is recommended to protect this site.

The second site, referred to as the Amos Burrows site (A05540.009185) (UB 4410) is located at the Pitkin Street/Savannah Street intersection. Findings from shovel test pit explorations also revealed the presence of past domestic refuse. This location will also experience shallow excavations associated with sidewalk construction, and as such monitoring of excavations for potential unexpected artifacts during construction would be sufficient.

A Phase II archaeological survey was conducted to more precisely determine the locations, quantity and significance of the resources. This investigation recovered several small fragments of past domestic refuse. The report concludes that no further subsurface investigation is warranted and therefore a Determination of No Effect from the NYS Office of Parks, Recreation and Historic Preservation is anticipated.

Based on preliminary results, the Amos Burrows site appears eligible for listing on the National Register of Historic places, due to the recovery of both temporally and functionally diagnostic mid-to-late 19th century domestic artifacts in good context that represent an urban domestic site. Due to the site's small size and the fact that the majority of the first period historic feature was completely removed during the site examination, the site's research potential has been exhausted. While no further archaeological excavation is recommended at the Amos Burrows site, it is possible that contextually associated materials and/or features might be found beneath the paved parking lot and driveway between Savannah and Pitkin Street. Construction monitoring was also recommended to protect this site.

An archaeologist from SUNY Buffalo, Department of Anthropology will be present when construction takes place at both of these two sites. The archaeologist will observe the

excavation in these areas, determine if artifacts are present, and if so, determine if collection of the artifacts is warranted and other determine if other remedial steps are pertinent.

## **Impact on Transportation**

The proposed transformation of the Inner Loop expressway to an at-grade urban city street will have little to no impacts on the overall transportation system. The proposed traffic increases will be accommodated by the new roadway system and network; intersection operations are shown to meet design criteria. The new urban city street will have adequate travel lanes, turn lanes and traffic control to accommodate the traffic at each intersection location. Numerous intersection geometric and traffic control options were assessed and are documented in the Inner Loop East Transformation Project Draft Design Report. While travel speeds may be lower on the city street than on the previous expressway, overall traffic operations should function better on the street network and accessibility for pedestrian and bicycle traffic will be notably improved. Levels of operations at each of the corridor intersection are projected to be LOS C or better.

The overall street grid system will be notably enhanced with additional cross street connections. The new urban street will allow for the reconnection of Charlotte Street; the ultimate reconnection of Haags Alley; and allows for the future Woodbury Boulevard extension. Each of these new connections provides improved connectivity and breaks up the various superblocks. This creates a more livable and walkable community providing substantial social benefits.

The project will significantly improve pedestrian and bicycle travel with the addition of a cycle track, the addition of on street bike lanes, a contra flow bike lane, sharrows and bike boxes. For pedestrian travel, additional midblock and intersection crossing locations are provided. Each intersection geometric design has minimized the width travelled to improve pedestrian access and safety. While the project may alter travel patterns in the immediate area, these changes will be positive changes as the urban city street will provide two-way traffic operations along with additional street grid connections. Each of the various elements of the project significantly improves livability, connectivity and mobility.

Lastly, the transformation from a high speed expressway to a low speed city street will have a positive effect on safety and access for all users while enhancing livability for current and future residents. It is anticipated that the severity of accidents that occurred on the Inner Loop expressway will be reduced when the expressway traffic is combined with Union Street traffic on the new lower speed street. Additionally, all of the expressway non-standard and non-conforming features will be eliminated from the network.

## **Impact on Energy**

The proposed project will create development parcels that can accommodate up to 795,000 square feet of mixed-use real estate development. The mixed-use development could include a mixture of residential units, office space and retail use. This new development will generate the

need for natural gas and electric service from Rochester Gas and Electric Corporation. Natural gas and electric services are readily available throughout the project corridor. The projected increase in energy is not expected to require a new, or an upgrade to an existing substation. Therefore, the project is not expected to result in a significant adverse environmental impact.

The City of Rochester and the design consultant will continue to be in contact with Rochester Gas and Electric Company regarding the placement and connections to natural gas and electric lines.

Based upon this evaluation of potential environmental impacts, along with the incorporation of the identified mitigation measures, the Project is not expected to result in any significant adverse environmental impact.



# **APPENDIX E**

## **Non-Standard Feature Justification Forms**





<b>Main Line Design (in accordance with HDM §2.7)</b>			
PIN:	4940.T7	NHS (Y/N):	Yes
Route No. & Name:	Inner Loop SB Off Ramp	Functional Class:	Urban Principal Arterial - Expressway
Project Type:	Reconstruction	Design Classification: (AASHTO Class)	Other – Ramps – Non-Interstate
% Trucks:	2%	Terrain:	Rolling
ADT:		Truck Access Route:	Yes
<b>1. Description of Nonstandard Feature</b>			
Type of Feature:	Horizontal Curvature / Super Elevation		
Location:	Sta. SB 10+45 to SB 12+90		
Standard Value:	231' / 6%	Design Speed:	30 mph
Existing Value:	NA	Recommended Speed:	NA
Proposed Value:	150' / 4%	Recommended Speed:	25 mph
<b>2. Accident Analysis</b>			
Current Accident Rate:	NA		
Statewide Rate (based on similar type highways):	NA		
Is the nonstandard feature a contributing factor?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Anticipated Accident: Rate / Severity / Cost	Due to this curve being located at the terminus with Union Street, it is anticipated that motorists will be traveling below the recommended speed.		
<b>3. Cost Estimates</b>			
Cost to Fully Meet Standards:	NA		
Cost(s) For Incremental Improvements:	NA		
<b>4. Mitigation (e.g., increased superelevation and curve warning signs for a nonstandard horizontal curve):</b>			
	A curve warning sign with an advisory speed limit of 25 MPH will be placed in accordance with MUTCD standards. In addition, the outside portion of the curve will be designed to meet clear zone requirements.		
<b>5. Compatibility with Adjacent Segments &amp; Future Plans:</b>			
	These improvements will be compatible with adjacent segments and future plans.		
<b>6. Other Factors (e.g., Social, Economic &amp; Environmental):</b>			
	The horizontal curve is proposed due to the limited space available. The alignment under the East Main Street bridge and the proximity of the terminus do not allow for larger radii. Should a larger radii be desired the East Main Street Bridge would require reconstruction however this would only marginally increase the radii.		
<b>7. Proposed Treatment (i.e. Recommendation):</b>			
	The close proximity of the curve to the intersection does not allow for proper curvature or super elevation transitions. In addition, the curve meets the requirements of a 25 MPH design speed that is more consistent with the travel speeds anticipated within this speed transition area due its close proximity to the Union Street intersection. Therefore, it is recommended to construct the non-standard feature.		

### Main Line Design (in accordance with HDM §2.7)

PIN:	4940.T7	NHS (Y/N):	Yes
Route No. & Name:	Inner Loop SB On Ramp	Functional Class:	Urban Principal Arterial - Expressway
Project Type:	Reconstruction	Design Classification: (AASHTO Class)	Other – Ramps – Non-Interstate
% Trucks:	2%	Terrain:	Rolling
ADT:		Truck Access Route:	Yes

**1. Description of Nonstandard Feature**

Type of Feature:	Horizontal Curvature		
Location:	Sta. NB 10+28 to Sta. NB 12+70		
Standard Value:	231' / 6%	Design Speed:	30 mph
Existing Value:	NA	Recommended Speed:	NA
Proposed Value:	150' / 4%	Recommended Speed:	25 mph

**2. Accident Analysis**

Current Accident Rate:	NA	
Statewide Rate (based on similar type highways):	NA	
Is the nonstandard feature a contributing factor?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Anticipated Accident: Rate / Severity / Cost	Due to this curve being located at the terminus with Union Street, it is anticipated that motorists will be traveling below the recommended speed.	

**3. Cost Estimates**

Cost to Fully Meet Standards:	NA
Cost(s) For Incremental Improvements:	NA

**4. Mitigation (e.g., increased superelevation and curve warning signs for a nonstandard horizontal curve):**

	A curve warning sign with an advisory speed limit of 25 MPH will be placed in accordance with MUTCD standards.
--	--

**5. Compatibility with Adjacent Segments & Future Plans:**

	These improvements will be compatible with adjacent segments and future plans.
--	--

**6. Other Factors (e.g., Social, Economic & Environmental):**

	The horizontal curve is proposed due to the limited space available. The alignment under the East Main Street bridge and the proximity of the terminus do not allow for larger radii. Should a larger radii be desired the East Main Street Bridge would require reconstruction however this would only marginally increase the radii.
--	--

**7. Proposed Treatment (i.e. Recommendation):**

	The close proximity of the curve to the intersection does not allow for proper curvature or super elevation transitions. In addition, the curve meets the requirements of a 25 MPH design speed that is more consistent with the travel speeds anticipated within this speed transition area due its close proximity to the Union Street intersection. Therefore, it is recommended to construct the non-standard feature.
--	--

### Main Line Design (in accordance with HDM §2.7)

PIN:	4940.T7	NHS (Y/N):	No
Route No. & Name:	Howell Street	Functional Class:	Urban Minor Arterial
Project Type:	Reconstruction	Design Classification: (AASHTO Class)	Urban Arterial
% Trucks:	2%	Terrain:	Level
ADT:		Truck Access Route:	No

**1. Description of Nonstandard Feature**

Type of Feature:	Superelevation		
Location:	Sta. HSE 15+54 to Sta. HSE 16+91		
Standard Value:	4%	Design Speed:	30 mph
Existing Value:	NA	Recommended Speed:	NA
Proposed Value:	NC	Recommended Speed:	25 mph

**2. Accident Analysis**

Current Accident Rate:	NA	
Statewide Rate (based on similar type highways):	NA	
Is the nonstandard feature a contributing factor?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Anticipated Accident: Rate / Severity / Cost	Due to this curve being located at the terminus with Union Street, it is anticipated that motorists will be traveling below the recommended speed.	

**3. Cost Estimates**

Cost to Fully Meet Standards:	NA
Cost(s) For Incremental Improvements:	NA

**4. Mitigation (e.g., increased superelevation and curve warning signs for a nonstandard horizontal curve):**

	The curve will be designed to meet clear zone requirements.
--	---

**5. Compatibility with Adjacent Segments & Future Plans:**

	These improvements will be compatible with adjacent segments and future plans.
--	--

**6. Other Factors (e.g., Social, Economic & Environmental):**

	Due to the close proximity of adjacent buildings, meeting the 4% Superelevation rate would create excessive cross slope issues for sidewalks and building thresholds along this segment of roadway.
--	---

**7. Proposed Treatment (i.e. Recommendation):**

	The close proximity of the curve to the intersection does not allow for proper super elevation transitions. In addition, the super elevation rate meets the requirements of a 25 MPH design speed that is more consistent with the travel speeds anticipated within this speed transition area due its close proximity to the Union Street intersection. Therefore, it is recommended to construct the non-standard feature.
--	--

