



## **CITY COUNCIL REGULAR MEETING AGENDA** **Monday, August 14, 2023 at 7:00 PM**

15 East Franklin Street Bellbrook, Ohio 45305  
T (937) 848-4666 | [www.cityofbellbrook.org](http://www.cityofbellbrook.org)

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- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE**
- 3. ROLL CALL**
- 4. APPROVAL OF THE MINUTES**
  - [A.](#) Approval of the July 24, 2023 Regular Meeting minutes
- 5. MAYOR'S ANNOUNCEMENTS AND SPECIAL GUEST**
- 6. CITIZEN COMMENTS**
- 7. CITIZENS REGISTERED TO SPEAK ON AGENDA ITEMS**
- 8. PUBLIC HEARING OF PROPOSED ORDINANCES**
- 9. INTRODUCTIONS OF ORDINANCES**
- 10. ADOPTION OF RESOLUTIONS**
- 11. OLD BUSINESS**
- 12. NEW BUSINESS**
  - [A.](#) Presentation of Public Works Mutual Aid Agreement
- 13. CITY MANAGER'S REPORT**
  - [A.](#) Update on final bid packet documents for Downtown repaving and mid-block crossing construction.
- 14. COMMITTEE REPORTS**
  - A. Safety Committee
  - B. Service Committee
  - C. Finance/Audit Committee
  - D. Community Affairs Committee
- 15. CITY OFFICIAL COMMENTS**
- 16. EXECUTIVE SESSION**
  - A. Motion to enter Executive Session to consider the appointment, employment, dismissal, discipline, promotion, demotion, or compensation of a public employee or official.
- 17. ADJOURNMENT**

**File Attachments for Item:**

A. Approval of the July 24, 2023 Regular Meeting minutes

# RECORD OF PROCEEDINGS

Bellbrook City Council Meeting  
July 24, 2023

Item A. Section 4, Item

## **CALL THE MEETING TO ORDER:**

Mayor Schweller called the Regular Meeting of the Bellbrook City Council to order at 7:00pm

## **PLEDGE OF ALLEGIANCE:**

Mayor Schweller led the Council in the Pledge of Allegiance.

## **ROLL CALL:**

### **PRESENT**

Mrs. Katherine Cyphers  
Mr. Forrest Greenwood  
Mr. Brady Harding  
Mr. Ernie Havens  
Mr. T.J. Hoke  
Mrs. Elaine Middlestetter  
Mayor Mike Schweller

### **ABSENT:**

### **ALSO PRESENT:**

Rob Schommer, City Manager

## **APPROVAL OF MINUTES:**

Mayor Schweller asked if anyone had comments or corrections to the minutes of the July 10, 2023, meeting. Hearing none, the minutes were declared to be approved.

## **MAYOR'S ANNOUNCEMENTS / SPECIAL PRESENTATIONS:**

None

## **CITIZEN COMMENTS**

None

## **PUBLIC HEARING OF PROPOSED ORDINANCES:**

None

# RECORD OF PROCEEDINGS

Bellbrook City Council Meeting  
July 24, 2023

Item A. Section 4, Item

## INTRODUCTION OF ORDINANCES:

**Ordinance 2023-O-3:** Amending Ordinance 2022-O-10 by making supplemental appropriations for expenses of the City of Bellbrook for the period beginning January 1, 2023 and ending December 31, 2023, and declaring an emergency (Cyphers)

Mayor Schweller asked Mr. Schommer to provide some background.

Mr. Schommer spoke on the collective bargaining agreements, wage adjustments, and insurance costs.

Mayor Schweller asked the council if anyone had any questions regarding Ordinance 2023-O-3. None

Mayor Schweller asked for a Motion for the approval and adoption of Ordinance 2023-O-3.

Motion made by Mrs. Cyphers, Seconded by Mr. Hoke.

Voting Yea: Mrs. Cyphers, Mr. Greenwood, Mr. Harding, Mr. Havens, Mr. Hoke, Mrs. Middlestetter, Mayor Schweller.

Motion Carries

## RESOLUTIONS:

**Resolution 2023-R-17:** Approving the collective bargaining agreements for Police Officers and Sergeants with the Fraternal Order of Police, Ohio Labor Council, Inc for the time-period, August 1, 2023, through July 31, 2026 (Hoke)

Mayor Schweller asked Mr. Schommer to go over the highlights.

Mr. Schommer explained most of the contract remains unchanged regarding non-financial sections, that most changes are wages for the next three years. He also noted there was a significant change in the Injury leave section creating more definition and structure.

Mayor Schweller thanked Mr. Schommer and the police for working on the contract in-house.

Mayor Schweller asked if there were any questions from the council.

Mr. Hoke asked if there is a calculation of total funding lines increases for the police fund. Mr. Schommer pointed out the Police Fund increases in the Supplemental Appropriation Ordinance.

Mr. Greenwood thanked Mr. Schommer for working through this contract.

Mayor Schweller asked for a Motion for the adoption of Resolution 2023-R-17.

Motion made by Mr. Hoke, Seconded by Mr. Greenwood.

Voting Yea: Mrs. Cyphers, Mr. Greenwood, Mr. Harding, Mr. Havens, Mr. Hoke, Mrs. Middlestetter, Mayor Schweller.

Motion Carries



# RECORD OF PROCEEDINGS

Bellbrook City Council Meeting

July 24, 2023

Item A. Section 4, Item

**Resolution 2023-R-18:** Authorizing transfers between various funds of the City of Bellbrook (Havens)

Mayor Schweller asked Mr. Schommer if this was part of the bargaining agreement.

Mr. Schommer replied this is actually the annual budgeted He explained it is not an increase of the overall budget like the Supplemental Appropriation, rather the actual transfer of cash between funds to meet the appropriation.

Mayor Schweller asked if there were any questions regarding Resolution 2023-R-18. None

Mayor Schweller asked for a Motion for the adoption of Resolution 2023-R-18.

Motion made by Mr. Havens, Seconded by Mrs. Middlestetter.

Voting Yea: Mrs. Cyphers, Mr. Greenwood, Mr. Harding, Mr. Havens, Mr. Hoke, Mrs. Middlestetter, Mayor Schweller.

Motion Carries

**Resolution 2023-R-19:** Authorizing the City Manager to adjust the pay scales of employee positions not covered by a collective bargaining agreement (Greenwood)

Mayor Schweller asked Mr. Schommer if this was providing the same type of increases for our employees not covered by the collective bargaining agreement that were afforded to the police department. Mr. Schommer stated yes, that is correct.

Mayor Schweller asked if there are any questions or comments on Resolution 2023-R-19. None

Mayor Schweller asked for a Motion for the adoption of Resolution 2023-R-19.

Motion made by Mr. Greenwood, Seconded by Mr. Hoke.

Voting Yea: Mrs. Cyphers, Mr. Greenwood, Mr. Harding, Mr. Havens, Mr. Hoke, Mrs. Middlestetter, Mayor Schweller.

Motion Carries

**Resolution 2023-R-20:** Authorizing the City Manager to expend funds to cover the cost of various goods and services ordered for city operations and to make payment on invoices with a then and now certificate (Harding)

Mayor Schweller asked Mr. Schommer to explain the “now and then” process.

Mr. Schommer explained, if there were goods or services ordered by the city and the invoice came prior to the purchase order date, then we certify that both then we had the funds to cover the service and now we have the funds to cover the service. He noted for this specific Then and Now, it covers services provided but never invoiced for work done within the water well monitoring system.

Mayor Schweller asked if there were any questions regarding Resolution 2023-R-20. None

Mayor Schweller asked for a Motion for the adoption of Resolution 2023-R-20.

Motion made by Mr. Harding, Seconded by Mrs. Cyphers.

# RECORD OF PROCEEDINGS

Bellbrook City Council Meeting

July 24, 2023

Item A. Section 4, Item

Voting Yea: Mrs. Cyphers, Mr. Greenwood, Mr. Harding, Mr. Havens, Mr. Hoke, Mrs. Middlestetter, Mayor Schweller.

Motion Carries

## **OLD BUSINESS:**

None

## **NEW BUSINESS:**

None

## **CITY MANAGER REPORT:**

Mr. Schommer spoke on Station 22 and the internet issues due to down trees growing into the lines. He noted there will be additional work to inspect and remedy any additional problems.

Mr. Schommer also gave an update on the Downtown Streetscape project design progress and noted the next meeting will bring the final design sheets so the project can go to bid.

Mayor Schweller asked if there were any questions for the City Manager.

Mr. Greenwood mentioned concerned citizens with the bridge work and the traffic when school starts. He suggested closing truck traffic on Main Street to help reduce issues. He also mentioned opening gates in the Highview Terrace development for buses only during school. Mr. Schommer noted staff is working with the school for additional traffic control and based on a previous legal opinion the City could in fact limit truck traffic on Main Street. He added he will follow up with the Law Director to see what process needs to be followed if Council wants to move forward with limiting truck traffic on Main Street.

Mr. Hoke mentioned concerns from citizens with traffic for school and sports events. He asked to show the citizens we have tried all things possible and showing the schedule for the projects downtown.

Mr. Havens mentioned the signs placed before the project, suggesting seeking an alternate route.

Mayor Schweller asked if there were any other questions for the City Manager.

Mr. Hoke asked about 4189 West Franklin and the tree that has fallen on the house. Any updates on this property. Mr. Schommer replied the owner is deceased and it is in the care of the children care. They are working on getting this taken care of through an insurance claim and finding a contractor to remove the tree.

Mayor Schweller asked if there were any other questions on the City Manager report.

# RECORD OF PROCEEDINGS

Bellbrook City Council Meeting

July 24, 2023

Item A. Section 4, Item

## COMMITTEE REPORTS:

### SAFETY:

Mr. Hoke spoke about the fire department to include:

- Crews worked with the park district to provide safety talks to their Summer Camps at Magee Park.
- Touch - a – truck event had a great turn out. He noted if anyone missed out on the touch a-truck, residents could stop by the fire station and ask for a tour.

Mr. Hoke spoke about the police department to include:

- Officer Bennington has completed her School Resource certification training and will be ready for start of school
- Crews still working with Enterprise Fleet to finalize builds for SUV and trucks for the up fit and lease program.
- Memorandum of understanding was completed for the police department to participate on the Greene County Swat Team.
- Chief Carmen stated touch -a- truck was a great event for the police department as well.

### SERVICE:

Mr. Greenwood asked about the paving bids from the County engineer. Mr. Schommer stated they have been asked for several times by several people, and there is now a concern about getting paving done this year. He noted he continues to follow up regularly and has been told they are done, they just haven't been released.

### FINANCE/GOVERNMENT AFFAIRS:

None

### COMMUNITY AFFAIRS:

Mrs. Middlestetter asked about the Museum and hours. She suggested getting hours updated on the website.

## CITY OFFICIAL COMMENTS:

Mrs. Cyphers: None

Mr. Harding: Mentioned we are trying to get citizens to avoid downtown, but we still want to encourage everyone to support the businesses downtown.

Mr. Havens noted he agreed with Mr. Hardin; Support downtown businesses.

He also asked Mr. Schommer about the Citizens Academy. Mr. Schommer noted there is still plenty of spots open and it Starts September 5, 2023. Hopes citizens take advantage of it.

# RECORD OF PROCEEDINGS

Bellbrook City Council Meeting  
July 24, 2023

Item A. Section 4, Item

Mr. Hoke mentioned an event for Halloween in the park October 14, 2023. He noted it is hoped the event becomes an annual tradition.

Mrs. Middlestetter also encouraged supporting downtown local businesses. She also commended the police officers and sergeants for working with the city on the union agreement.

Mr. Greenwood mentioned enjoying Bellbrook and visiting lemonade stands over the past couple of weeks.

Mayor Schweller thanked Loius the camera man, and the viewing audience and in person. Asked if anyone had any other business to bring before council this evening. None

## **EXECUTIVE SESSION:**

## **ADJOURNMENT:**

Hearing no further business coming before the Council, Mayor Schweller declared the meeting adjourned at 8:17 pm

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Michael Schweller, Mayor

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Robert Schommer, Clerk of Council

**File Attachments for Item:**

A. Presentation of Public Works Mutual Aid Agreement

## Introduction

The purpose of this manual is to help you take full advantage of your jurisdiction's participation in the *Public Works Mutual Aid Pact*. Keep it handy. If a disaster such as a tornado or flood strikes your community, this manual may help you locate the assistance you need to prevent the disaster from becoming a tragedy and to return service to normal as quickly as possible.

The manual consists of three sections:

- A list of the participating jurisdictions and the names and contact information of each jurisdiction's designated contact personnel.
- A selective inventory of each jurisdiction's public works equipment. The equipment listed has been identified as that which is most often needed in emergency situations. It includes heavy and light equipment, as well as parks, road repair and service/garage equipment.
- An Appendix, including frequently asked questions on the *Public Works Mutual Aid Pact* and a copy of the agreement.

This manual is periodically updated for participant use. You can help keep the manual current by alerting the Center staff to any changes in your jurisdiction's key contact personnel or public works equipment inventory.

This manual should be made available to your public works director, or other person who may be responsible for coordinating public works activities in the event of an emergency. You may make as many copies of the manual as you deem necessary for your operation.

## Frequently Asked Questions

### 1. *Why have a Public Works Mutual Aid Pact?*

The Public Works Mutual Aid Pact was an outgrowth of The Center for Local Government's Collaboration Committee's discussions in 1993 about the need to develop some mechanism that would allow local jurisdictions to have a clear understanding of the roles and responsibilities assumed when giving assistance to other jurisdictions in emergency situations. Some of the items that members of that committee felt should be addressed included liability in the event of an accident involving one jurisdiction's equipment or personnel while serving in another jurisdiction, liability in the event of an accident involving a member of the public, duration of use of equipment or work crews following an emergency, and the definition of an emergency. Committee members felt that clarifying these kinds of issues in advance of an emergency would allow for better response to emergencies when they occur.

### 2. *What constitutes an emergency?*

Our Mutual Aid Pact defines a "disaster" as "... the occurrence, or imminent threat of widespread or severe loss of property or life which exceeds the routine capabilities of local governmental, health care and other community agencies. The most common disasters include floods, major fires, earthquakes, tornadoes, and other emergencies which occur with little or no warning."

### 3. *What kind of aid is covered?*

This pact covers the provision of "aid, assistance, manpower or equipment" that would normally be associated with the kinds of services provided by a Public Works Department. It is understood that Mutual Aid pacts already exist for police and fire services.

### 4. *Who can request aid under this agreement?*

The Chief Administrative Office (City Manager, Township Administrator, Village Administrator or Safety Service Director) or his/her designee.

### 5. *How do you make a request?*

This is spelled out in Section III of the Pact. The directory in this manual identifies the specific persons to be contacted at each participating jurisdiction, and gives appropriate contact information.

6. *What if I get a request for aid when I need the equipment or manpower myself?*

Section II of the Pact clearly establishes that you continue to be entirely free to determine whether or not you are in a position to respond to a request for aid. If you need your resources for the area which you normally service, you are not obligated to send that equipment or manpower elsewhere.

7. *Does signing this pact prevent me from providing aid or receiving aid from a jurisdiction which has not signed?*

No. You remain free to give and receive aid from any other jurisdiction. The advantage of this pact is by signing only one agreement, you have entered into mutual agreements with all the other signatories.

8. *What if I get a request for aid from a signer of this pact after I have committed available resources to a non-signing jurisdiction? Do I have to pull my resources from the other jurisdiction to serve the signer?*

No. The agreement recognizes that in some cases, you may have made a prior commitment. You are never required to break a commitment already made.

9. *If an employee is injured while providing aid under this agreement, which jurisdiction is liable for any worker's compensation that might result?*

The employing jurisdiction. Workers' compensation law in Ohio makes this clear, but this agreement also recognizes that fact.

10. *If we send special equipment to another jurisdiction and unsafe use of the equipment results in injury to an employee, which jurisdiction is responsible for the employee injury?*

If you own the equipment, you are responsible to assure that employees operating the equipment have been properly trained in safe operation. However, if you are a "host" employer, you also have a responsibility to make visiting employees (directly or through their employer) aware of any known hazards before they enter an area or begin to work.

11. *If I request aid, and an employee of responding jurisdiction is injured while providing that aid, can the responding jurisdiction sue me to collect for the Workers' Compensation that may be assessed against that jurisdiction?*

Section V of the agreement specifically provides that no party providing aid shall seek damages or reimbursement under such circumstances.



## **Public Works Mutual Aid Contract**

### **Introduction**

For the purpose of this agreement a disaster will be defined as the occurrence, or imminent threat, of widespread or severe damage or loss of property or life which exceeds the routine capabilities of local government, health care, and other community agencies. The most common disasters include floods, major fires, earthquakes, tornadoes, and other emergencies which occur with little or no warning. While these disasters cannot be foreseen, their effects on a community can be anticipated and planned for in order to expedite the community's return to normal conditions. Actions taken to cope with an emergency may prevent a disaster from becoming a tragedy. This mutual aid contract is an attempt, prior to the actual occurrence of a disaster, to facilitate recognition of emergency demands and make the response of participating communities more effective.

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, it is the expressed desire of the member jurisdictions of the Center for Local Government, located in the Greater Cincinnati area, to agree to unite by contract for the purpose of rendering mutual aid, assistance, manpower and equipment, to each other in the event of emergency situations arising within their individual jurisdictions wherein their own non-safety Public Works manpower and equipment is deemed inadequate; and,

WHEREAS, the citizens served by all parties having the desire to contract as aforementioned will be better protected both in life and limb as well as in property by having available the mutual aid, assistance, manpower and equipment of the other parties to this contract should an emergency arise wherein their respective forces are deemed inadequate to meet such emergency; and,

WHEREAS, the preservation of life, limb and property of the citizens of the various communities desiring to contract herein depends upon having available all possible aid assistance, manpower, equipment, and knowledge;

THEREFORE, this contract is entered into upon the following terms and conditions, by and between the parties hereto, with the mutual promise of each to the other as consideration therefor:

I. PRIMARY RESPONSIBILITY

No provision of this contract shall be construed to place liability upon any other party hereto for failure to respond to a request for assistance hereunder, if, in the sole discretion of the party being requested, their services are considered necessary to the community or are for which they are primarily responsible.

Further, it is agreed that each party hereto bears the burden of protecting that area through which it gain its compensation and authority of jurisdiction, and that any decision to render aid to another party hereto requesting same must bear on this principle.

II. REQUESTS FOR AID (By Whom Made)

A request for aid, assistance, manpower, or equipment under the provisions of this contract shall be made only by the Chief Administrative Officer or his/her designee(s) of a jurisdiction as a party to this contract.

### III. REQUESTS FOR AID (Manner)

A request for aid, assistance, manpower, or equipment under the provisions of this contract shall be made to the person or agency having the responsibility of dispatching such requested party on calls within its own area of jurisdiction. Such requests shall be made, insofar as practicable, in the following manner:

- a.) The authority requesting same will spell out specifically what aid, assistance, manpower, or equipment it requires;
- b.) They shall state the nature and location of the emergency where such aid is needed;
- c.) The respondent shall cause an entry of the request to be made on appropriate departmental records, stating the time, pieces of equipment, personnel and the duration of time each was utilized. A copy of the entry shall be forwarded to the Center for Local Government at the earliest convenience.
- d.) For the purpose of the above, each party hereto shall provide each of the other parties the name and public service number of the dispatching authority for the department. Such lists shall be combined into one item and distributed to all parties hereto as the need demands.

### IV. CHARGES

No charge shall be made to or by any party to this contract for the services rendered under this contract unless agreed upon by the jurisdiction in advance, it being the expressed intention of the parties hereto that the sole consideration is the mutual promises, each to the other, of rendering aid, assistance, manpower or equipment.

No part of this contract, however, shall be construed as to avoid or nullify any other valid and existing contract which may be in effect between parties hereto or with parties not entering into this contract.

### V. DAMAGES – LOSSES – INJURIES

The parties hereto mutually agree that no party rendering aid, assistance, manpower, or equipment under the provisions of this contract shall seek damages or reimbursement for loss or injury to equipment from any party hereto requesting such aid, assistance, manpower, or equipment, except as hereinafter provided; further, that there shall be no reimbursement for any indemnity award or premium contribution assessed against the employing party for Workers' Compensation or other benefits arising by reason of injury or

## DAMAGES – LOSSES – INJURIES (Cont'd)

death to a member of a force of such party while engaged in rendering services under the terms of this contract, it being mutually agreed between the parties hereto that the responding party shall be solely responsible for any loss or damages sustained by third parties injured or damaged by any act of said responding party in rendering aid, assistance, manpower, or equipment under the terms of this contract.

## VI. TERM OF CONTRACT

This agreement shall be in effect for a period of three (3) years from the effective date hereof and shall be automatically renewed for successive periods of three (3) years as to all parties, unless termination and notice to withdrawal is completed in accordance with the terms herein.

## VII. TERMINATION

It is mutually agreed by the parties that any party may terminate this agreement at any time upon written notice served by registered mail to the other party sixty (60) days in advance of such effective termination. Such termination or withdrawal, however, shall not be deemed termination of the entire contract and agreement as to the remaining parties hereto and as to those remaining, this agreement will continue in full force and effect with the mutual promise of such parties remaining as the consideration therefore.

Upon receipt of the notice of intent by registered mail from any party hereto, the Center for Local Government, the party designated as the official repository for this contract, will notify all other parties hereto of the details of such notice.

## VIII. IMPLEMENTATION

It is mutually agreed that this contract shall be implemented by the organization known as the Center for Local Government, as such group shall be responsible for distribution of the various instruments connected with same, and for acting, through its administrator, as the official repository for same and for sending notices to parties hereto as herein provided.

It is further mutually agreed that membership in the said Association is a prerequisite for being a party to this contract; such limitation being expressed within the limits of membership as hereinafter provided.

## IX. PARTIES (Membership)

Shall be comprised of the members of the Center for Local Government.

## X. EXECUTION

This agreement may be executed in any number of counterparts, all of which together shall be considered a single instrument. All of the counterparts shall be filed with the administrator, of the Center for Local Government, who shall be deemed the official repository for this agreement and contract is accepted, together with the citation for providing who shall sign the counterpart binding said party.

The administrator of the Center for Local Government shall send to each party to this contract a certificate indicating the names of all parties to the same as soon as practicable after the effective date hereof.

## XI. ADDITIONAL PARTIES TO CONTRACT

It is mutually agreed by the parties hereto that from time to time new parties to this agreement may be added, provided other requirements are met as specified herein, and further provided that all parties to this contract have been notified by the administrator of the Center for Local Government, by registered or certified mail, no later than thirty (30) days after their acceptance. The date of the initial term shall coincide with the then existing term of this contract, whether within the initial term or successive automatic renewal term hereof, and from that time shall be for the same term as other parties to this contract.

## XII. EFFECTIVE DATE

This agreement shall become effective upon execution by the Chief Administrative Officer and will be effective on that date as to all parties who have executed the agreement in accordance with law and have returned same to the administrator of the Center for Local Government. The administrator, when making initial distribution of the agreement counterparts, shall indicate the dates forth herein to all parties.

### XIII. SEPARABILITY OF CLAUSES

It is mutually agreed by the parties hereto that should any part, section, clause or specification herein be decided unlawful or unconstitutional, the remaining parts, sections, clauses and specifications shall continue to operate as if independent thereof.

IN WITNESS WHEREOF, the undersigned, through its duly authorized agent(s) or representative(s), hereunto set its hand this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Local Jurisdiction

\_\_\_\_\_  
Chief Administrative Officer

\_\_\_\_\_  
Director, Center for Local Government

## Public Works Mutual Aid Contract

WHEREAS, it is the expressed desire of municipalities located in the southwest Ohio area, to agree to unite by contract for the purpose of rendering mutual aid, assistance, manpower and equipment, to each other in the event of both non-emergency events and emergency situations arising within their individual jurisdictions wherein their own non-safety Public Works manpower and equipment is deemed inadequate; and,

WHEREAS, this mutual aid agreement is both an attempt, prior to the actual occurrence of a disaster or an event, to facilitate recognition of emergency and non-emergency demands and make the response of participating communities more effective; and,

WHEREAS, the citizens served by all parties having the desire to contract as aforementioned will be better protected both in life and limb as well as in property by having available the mutual aid, assistance, manpower and equipment of the other parties to this contract should an emergency or non-emergency event arise wherein their respective forces are deemed inadequate to meet such emergencies or events; and,

WHEREAS, in addition to non-emergency events, the preservation of life, limb and property of the citizens of the various communities desiring to contract herein depends upon having available all possible aid, assistance, manpower, equipment, and knowledge.

NOW THEREFORE, this contract is entered into upon the following terms and conditions, by and between the parties hereto set forth below, with the mutual promise of each to the other as consideration therefor:

### I. DEFINITIONS

For the purpose of this contract, a disaster will be defined as the occurrence, or imminent threat, of widespread or severe damage or loss of property or life which exceeds the routine capabilities of local government, health care, and other community agencies. The most common disasters include floods, major fires, earthquakes, tornadoes, and other emergencies which occur with little or no warning. While these disasters cannot be foreseen, their effects on a community can be anticipated and planned for in order to expedite the community's return to normal conditions. Actions taken to cope with an emergency may prevent a disaster from becoming a tragedy.

For the purposes of this contract, non-emergency events or just events shall be any non-emergency events that allows a local jurisdiction to seek assistance from another jurisdiction for non-emergency public works equipment or services.

## II. PRIMARY RESPONSIBILITY

No provision of this contract shall be construed to place liability upon any other party hereto for failure to respond to a request for assistance hereunder, if, in the sole discretion of the party being requested, their services are considered necessary to the community or are for which they are primarily responsible.

Further, it is agreed that each party hereto bears the burden of protecting that area through which it gains its compensation and authority, and that any decision to render aid to another party hereto requesting same must bear on this principle.

## III. REQUESTS FOR AID

A request for aid, assistance, manpower, or equipment under the provisions of this contract shall be made only by the chief executive of the requesting jurisdiction or his/her designee(s) as a party to this contract.

## IV. RESPONSE TO REQUESTS FOR AID

A request for aid, assistance, manpower, or equipment under the provisions of this contract shall be made to the person or agency having the responsibility of dispatching such requested party on calls within its own area of jurisdiction. Such requests shall be made, insofar as practicable, in the following manner:

- a.) The authority requesting assistance shall specify the aid, assistance, manpower, or equipment requested;
- b.) The nature and location of the non-emergency event or emergency where such aid is requested;
- c.) The respondent shall then cause an entry of the request to be made on appropriate departmental records, stating the time, pieces of equipment, personnel and the duration of time each was utilized. A copy of the entry shall be forwarded to the requesting jurisdiction at the earliest convenience.
- d.) Each jurisdiction shall provide the requesting party with the name and public service number of the dispatching authority for the particular department. Such lists shall be combined into one item and distributed to all parties hereto as the need demands.

## V. CHARGES

No charge shall be made to or by any party to this contract for the services rendered under this contract unless agreed upon by the jurisdiction in advance, it being the expressed intention of the parties hereto that the sole consideration is the mutual promises, each to the other, of rendering aid, assistance, manpower or equipment.

In the event that charges for the services may be reimbursed through third parties,



such as FEMA, each jurisdiction may be entitled to such reimbursement and is responsible for providing documentation for receipt of those funds.

No part of this contract, however, shall be construed as to avoid or nullify any other valid and existing contract which may be in effect between parties hereto or with parties not subject to this contract.

## VI. DAMAGES – LOSSES – INJURIES

The parties hereto mutually agree that no party rendering aid, assistance, manpower, or equipment under the provisions of this contract shall seek damages or reimbursement for loss or injury to equipment from any party requesting such aid, assistance, manpower, or equipment, unless the actions of the requesting party or its employees caused the damage; further, that there shall be no reimbursement for any indemnity award or premium contribution assessed against the employing party for Workers' Compensation or other benefits arising by reason of injury or death to a member of a force of such party while engaged in rendering services under the terms of this contract, it being mutually agreed between the parties hereto that the responding party shall be solely responsible for any loss or damages sustained by third parties injured or damaged by any act of said responding party in rendering aid, assistance, manpower, or equipment under the terms of this contract.

## VII. MINIMUM COVERAGES

Each party shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the insured party, its agents, representatives, employees, or subcontractors.

1. **Commercial General Liability (CGL)**, with limits not less than \$2,000,000 per occurrence, for bodily injury, property damage, personal & advertising injury.
2. **Automobile Liability** covering any auto, with minimum limits of \$2,000,000 per accident for bodily injury and property damage.
3. **Workers' Compensation** insurance as required by the State of Ohio, with statutory limits, and Employers' Liability with limits not less than \$1,000,000 per accident for bodily injury and disease.

Each party shall cover the other parties, including their officials, agents, employees, and volunteers as Additional Insureds with respect to liability arising out of work or operations performed by the primary insured party including materials, parts, or equipment furnished in connection with such work or operations and automobiles owned, leased, hired, or borrowed by the primary insured party.

For claims related to this project, the primary insured party's insurance coverage shall be primary and non-contributing with respect to the additional insureds.

Upon request, each party shall provide the others with a certificate of insurance evidencing compliance with the requirements herein.

#### VIII. TERM OF CONTRACT

This agreement shall be in effect for a period of three (3) years from the effective date hereof and shall be automatically renewed for successive periods of three (3) years as to all parties, unless termination and notice to withdrawal is completed in accordance with the terms herein.

#### IX. TERMINATION

It is mutually agreed by the parties that any party may terminate this agreement at any time upon written notice served by either certified mail, return receipt requested, or electronically via email to the other party or parties at least sixty (60) days in advance of such effective termination. Such notice shall be sent to the attention of the Chief Executive to the address or email address set forth below for each party and is deemed served once mailed or sent. Such termination or withdrawal, however, shall not be deemed termination of the entire contract and agreement as to the remaining parties hereto and as to those remaining, this agreement will continue in full force and effect with the mutual promise of such parties remaining as the consideration.

#### X. EXECUTION

This agreement may be executed in any number of counterparts, all of which together shall be considered a single instrument.

#### XI. ADDITIONAL PARTIES TO CONTRACT

It is mutually agreed by the parties hereto that from time-to-time new parties to this agreement may be added, provided other requirements are met as specified herein. The date of the initial term shall coincide with the then existing term of this contract, whether within the initial term or successive automatic renewal term hereof, and from that time shall be for the same term as other parties to this contract.

#### XII. EFFECTIVE DATE

This agreement shall become effective upon execution by each chief executive of each jurisdiction and will be effective on that date as to all parties who have executed the agreement in accordance with law. The administrator, when making initial distribution of the agreement counterparts, shall indicate the dates set forth herein to all parties.

XIII. SEPARABILITY OF CLAUSES

It is mutually agreed by the parties hereto that should any part, section, clause or specification herein be decided unlawful or unconstitutional, the remaining parts, sections, clauses and specifications shall continue to operate as if independent thereof.

IN WITNESS WHEREOF, the undersigned, through its duly authorized agent(s) or representative(s), hereunto set its hand this \_\_\_\_day of \_\_\_\_\_.

CITY OF \_\_\_\_\_

\_\_\_\_\_  
By:

Its:

Approved as to form:

\_\_\_\_\_

**File Attachments for Item:**

A. Update on final bid packet documents for Downtown repaving and mid-block crossing construction.

## Estimate Franklin & Main

Estimated Cost:\$817,287.41

Contingency: 4.00%

**Estimated Total: \$849,978.91**

CONTINGENCY = INFLATION (4%)

**Base Date: 08/11/23**

Spec Year: 23

Unit System: E

Work Type:

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: GREENE

Latitude of Midpoint: 393810

Longitude of Midpoint: -840415

District: 08

Federal/State Project Number:

*Prepared by ASN on 07/17/23*

*Checked by BMG on 07/17/23*

*Approved by BMG on 07/17/23*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<div>Item A. Section 13, Item 1</div>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Roadway

0057	204E10000	63.00	SY	\$5.66	\$356.58
SUBGRADE COMPACTION					
0058	202E30000	1,309.00	SF	\$9.19	\$12,029.71
WALK REMOVED					
0059	608E10000	2,018.00	SF	\$10.14	\$20,462.52
4" CONCRETE WALK					
0060	202E32000	204.00	FT	\$22.25	\$4,539.00
CURB REMOVED					
0061	202E23000	228.00	SY	\$23.35	\$5,323.80
PAVEMENT REMOVED					
0062	608E52000	461.00	SF	\$32.31	\$14,894.91
CURB RAMP					
0063	203E10000	30.00	CY	\$42.82	\$1,284.60
EXCAVATION					
0064	608E53020	61.00	SF	\$43.31	\$2,641.91
DETECTABLE WARNING					
0065	203E20000	15.00	CY	\$44.21	\$663.15
EMBANKMENT					
0066	608E53021	127.00	SF	\$65.00	\$8,255.00
DETECTABLE WARNING, AS PER PLAN					
0067	608E98000	967.00	SF	\$65.00	\$62,855.00
WALKWAY, MISC.: SIDEWALK PAVERS					
0068	201E11000	1.00	LS	\$5,000.00	\$5,000.00
CLEARING AND GRUBBING					

Total for Group 0010:\$138,306.18

Group 0020: Erosion Control

0069	832E15000	1.00	LS	\$2,500.00	\$2,500.00
STORM WATER POLLUTION PREVENTION PLAN					
0070	832E30000	10,000.00	EACH	\$1.00	\$10,000.00
EROSION CONTROL					

Total for Group 0020:\$12,500.00

Group 0040: Drainage

0017	611E99830	146.00	FT	\$105.00	\$15,330.00
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Line #	Item Number	Quantity	Units	Unit Price	Item A. Section 13, Item 1
Description					
Supplemental Description					

SPECIAL - TRENCH DRAIN					
				Total for Group 0040:\$15,330.00	

Group 0050: Pavement

0018	254E01000	24,063.00	SY	\$3.05	\$73,392.15
PAVEMENT PLANING, ASPHALT CONCRETE					
0019	407E20000	2,054.00	GAL	\$3.93	\$8,072.22
NON-TRACKING TACK COAT					
0020	609E26000	209.00	FT	\$47.74	\$9,977.66
CURB, TYPE 6					
0021	304E20000	14.00	CY	\$104.21	\$1,458.94
AGGREGATE BASE					
0022	253E01000	400.00	SY	\$135.00	\$54,000.00
PAVEMENT REPAIR					
0023	441E70000	1,006.00	CY	\$285.00	\$286,710.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22					
0024	441E91000	29.00	SY	\$400.00	\$11,600.00
ASPHALT CONCRETE, MISC.: TRAFFIC PATTERNSXD STAMPED CROSSWALK DIAGONAL HERRINGBONE PATTERN (12-101), COLONIAL BRICK					
0025	301E56000	11.00	CY	\$449.44	\$4,943.84
ASPHALT CONCRETE BASE, PG64-22, (449)					
0026	441E70300	5.00	CY	\$500.00	\$2,500.00
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)					
				Total for Group 0050:\$452,654.81	

Group 0120: Traffic Control

0027	644E00400	389.00	FT	\$2.08	\$809.12
CHANNELIZING LINE, 8"					
0028	644E01200	1,014.00	FT	\$2.37	\$2,403.18
PARKING LOT STALL MARKING					
0029	644E00620	924.00	FT	\$3.72	\$3,437.28
CROSSWALK LINE, 12"					
0030	644E00630	70.00	FT	\$5.67	\$396.90
CROSSWALK LINE, 24"					
0031	644E00700	426.00	FT	\$6.01	\$2,560.26
TRANSVERSE/DIAGONAL LINE					
0032	644E00700	216.00	FT	\$6.01	\$1,296.96

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<div>Item A. Section 13, Item 1</div>
<u>Description</u>					
<u>Supplemental Description</u>					
TRANSVERSE/DIAGONAL LINE					
0033	644E00500	128.00	FT	\$7.78	\$995.84
STOP LINE					
0034	630E03100	21.00	FT	\$18.36	\$385.56
GROUND MOUNTED SUPPORT, NO. 3 POST					
0035	630E84900	2.00	EACH	\$22.66	\$45.32
REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL					
0036	630E80100	58.00	SF	\$25.25	\$1,464.50
SIGN, FLAT SHEET					
0037	630E08600	3.00	EACH	\$47.82	\$143.46
SIGN POST REFLECTOR					
0038	630E85100	1.00	EACH	\$86.48	\$86.48
REMOVAL OF GROUND MOUNTED SIGN AND REERECTION					
0039	644E01300	10.00	EACH	\$116.87	\$1,168.70
LANE ARROW					
0040	644E01400	1.00	EACH	\$124.95	\$124.95
WORD ON PAVEMENT, 72"					
0041	644E00104	2.13	MILE	\$4,175.67	\$8,894.18
EDGE LINE, 6"					
0042	644E00300	1.23	MILE	\$5,416.29	\$6,662.04
CENTER LINE					

Total for Group 0120:\$30,875.93

Group 0130: Traffic Signals

0043	632E26000	2.00	EACH	\$273.73	\$547.46
PEDESTRIAN PUSHBUTTON					
0044	625E32000	2.00	EACH	\$364.93	\$729.86
GROUND ROD					
0045	632E64020	2.00	EACH	\$1,234.15	\$2,468.30
PEDESTAL FOUNDATION					
0046	630E97700	2.00	EACH	\$8,500.00	\$17,000.00
SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY					

Total for Group 0130:\$20,745.62

Group 0140: Landscaping

0047	661E99000	1.00	LS	\$27,980.00	\$27,980.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<div>Item A. Section 13, Item 1</div>
<u>Description</u>					
<u>Supplemental Description</u>					

SPECIAL - LANDSCAPING (SEE SUPPLEMENTAL ESTIMATE FOR ITEMIZED LANDSCAPE QUANTITIES)

Total for Group 0140:\$27,980.00

Group 0220: Maintenance of Traffic

0048	614E21000	2.46	MILE	\$1,500.32	\$3,690.79
WORK ZONE CENTER LINE, CLASS I					
0049	614E22010	4.26	MILE	\$1,482.71	\$6,316.34
WORK ZONE EDGE LINE, CLASS I, 6"					
0050	614E23000	778.00	FT	\$0.81	\$630.18
WORK ZONE CHANNELIZING LINE, CLASS I, 8"					
0051	614E26000	214.00	FT	\$3.54	\$757.56
WORK ZONE STOP LINE, CLASS I					

Total for Group 0220:\$11,394.87

Group 0230: Incidentals

0054	623E10000	1.00	LS	\$7,500.00	\$7,500.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0055	614E11000	1.00	LS	\$50,000.00	\$50,000.00
MAINTAINING TRAFFIC					
0056	624E10000	1.00	LS	\$50,000.00	\$50,000.00
MOBILIZATION					

Total for Group 0230:\$107,500.00



CINCINNATI  
COLUMBUS  
DAYTON

6305 Centre Park Drive  
West Chester, OH 45069  
phone 513.779.7851  
fax 513.779.7852  
www.kleingers.com

Item A. Section 13, Item

**OPINION OF PROBABLE CONSTRUCTION COST**  
**BELLBROOK STREETSCAPE - W. FRANKLIN**  
**DATE: June 25, 2023**

**LANDSCAPE ITEMS**

Turfgrass Seed	150	SF	\$	0.25	\$	37.50
Topsoil Lawn (6" depth)	3	CY	\$	65.00	\$	195.00
Topsoil Plant Bed (12" depth)	23	CY	\$	65.00	\$	1,495.00
Plant Beds (Plant Material)	650	SF	\$	12.00	\$	7,800.00
Shredded Hardwood Mulch (2" depth)	4	CY	\$	90.00	\$	360.00
<b>LANDSCAPE SUBTOTAL \$</b>						<b>9,887.50</b>

**SITE AMENITIES**

Planter	10	EA	\$	1,500.00	\$	15,000.00
Benches	4	EA	\$	1,975.00	\$	7,900.00
Litter Receptacles	1	EA	\$	3,000.00	\$	3,000.00
Bike Rack (installation only)	2	EA	\$	860.00	\$	1,720.00
<b>SITE AMENITIES SUBTOTAL \$</b>						<b>27,620.00</b>

<b>SUBTOTAL</b>	±	\$	<b>27,980.00</b>
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*\*Estimated Inflation costs included in full project cost estimate.*

THE LANDSCAPE ARCHITECT HAS USED HIS/HER BEST JUDGEMENT ON COST. THE LANDSCAPE ARCHITECT HAS NO CONTROL OVER THE COST OF LABOR, MATERIALS, OR THE CONTRACTOR'S METHODS OF DETERMINING BID PRICES, OR OVER COMPETITIVE BIDDING OR MARKET CONDITIONS. THEREFORE, THE LANDSCAPE ARCHITECT CANNOT GUARANTEE THAT BIDS OR CONSTRUCTION COST WILL NOT VARY FROM ANY ESTIMATES OF PROBABLE CONSTRUCTION COST PREPARED BY HIM/HER.

## Estimate WALNUT & MAIN

Estimated Cost:\$180,034.08

Contingency: 4.00%

**Estimated Total: \$187,235.44**

ALTERNATE BID (WALNUT AND MAIN STREET)  
CONTINGENCY = INFLATION (4%)

**Base Date: 08/11/23**

Spec Year: 23

Unit System: E

Work Type:

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SPRING

County: GREENE

Latitude of Midpoint: 393810

Longitude of Midpoint: -840415

District: 08

Federal/State Project Number:

*Prepared by ASN on 08/11/23*

*Checked by BMG on 08/11/23*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<div>Item A, Section 13, Item 1</div>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0010: Roadway

0005	201E11000	1.00	LS	\$2,500.00	\$2,500.00
CLEARING AND GRUBBING					
0006	202E23000	213.00	SY	\$23.76	\$5,060.88
PAVEMENT REMOVED					
0007	202E30000	342.00	SF	\$14.16	\$4,842.72
WALK REMOVED					
0008	202E32000	91.00	FT	\$28.14	\$2,560.74
CURB REMOVED					
0009	202E35100	30.00	FT	\$34.83	\$1,044.90
PIPE REMOVED, 24" AND UNDER					
0010	202E58100	1.00	EACH	\$472.16	\$472.16
CATCH BASIN REMOVED					
0011	203E10000	15.00	CY	\$48.48	\$727.20
EXCAVATION					
0012	203E20000	5.00	CY	\$12.68	\$63.40
EMBANKMENT					
0013	204E10000	63.00	SY	\$5.66	\$356.58
SUBGRADE COMPACTION					
0014	608E10000	401.00	SF	\$15.48	\$6,207.48
4" CONCRETE WALK					
0015	608E52000	394.00	SF	\$33.11	\$13,045.34
CURB RAMP					
0016	608E98000	1,025.00	SF	\$45.00	\$46,125.00
WALKWAY, MISC.: SIDEWALK PAVERS					

Total for Group 0010:\$83,006.40

Group 0020: Erosion Control

0017	832E15000	1.00	LS	\$2,500.00	\$2,500.00
STORM WATER POLLUTION PREVENTION PLAN					
0018	832E30000	10,000.00	EACH	\$1.00	\$10,000.00
EROSION CONTROL					

Total for Group 0020:\$12,500.00

Group 0040: Drainage

0019	611E01100	20.00	FT	\$205.00	\$4,100.00
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<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<div>Item A. Section 13, Item 1</div>
<u>Description</u>					
<u>Supplemental Description</u>					
6" CONDUIT, TYPE C					
0020	611E04400	6.00	FT	\$250.00	\$1,500.00
12" CONDUIT, TYPE B					
0021	611E98150	1.00	EACH	\$4,268.87	\$4,268.87
CATCH BASIN, NO. 3					
Total for Group 0040:\$9,868.87					

Group 0050: Pavement

0022	301E56000	11.00	CY	\$449.44	\$4,943.84
ASPHALT CONCRETE BASE, PG64-22, (449)					
0023	304E20000	14.00	CY	\$104.21	\$1,458.94
AGGREGATE BASE					
0024	407E20000	9.00	GAL	\$4.19	\$37.71
NON-TRACKING TACK COAT					
0025	441E70000	3.00	CY	\$550.00	\$1,650.00
ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22					
0026	441E70300	5.00	CY	\$185.84	\$929.20
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)					
0027	441E91000	23.00	SY	\$400.00	\$9,200.00
ASPHALT CONCRETE, MISC.: TRAFFIC PATTERNS XD STAMPED CROSSWALK DIAGONAL HERRINGBONE PATTERN (12-101), COLONIAL BRICK					
0028	609E26000	278.00	FT	\$45.52	\$12,654.56
CURB, TYPE 6					
Total for Group 0050:\$30,874.25					

Group 0060: Water Work

0029	638E10800	3.00	EACH	\$717.02	\$2,151.06
VALVE BOX ADJUSTED TO GRADE					
0030	638E10900	1.00	EACH	\$1,500.00	\$1,500.00
SERVICE BOX ADJUSTED TO GRADE					
Total for Group 0060:\$3,651.06					

Group 0120: Traffic Control

0031	630E85100	4.00	EACH	\$73.22	\$292.88
REMOVAL OF GROUND MOUNTED SIGN AND REERECTION					
Total for Group 0120:\$292.88					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<div>Item A. Section 13, Item 1</div>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0130: Traffic Signals

0032	625E32000	2.00	EACH	\$364.93	\$729.86
GROUND ROD					
0033	630E97700	2.00	EACH	\$8,500.00	\$17,000.00
SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY					
0034	632E26000	2.00	EACH	\$273.73	\$547.46
PEDESTRIAN PUSHBUTTON					
0035	632E64020	2.00	EACH	\$1,234.15	\$2,468.30
PEDESTAL FOUNDATION					
Total for Group 0130:					\$20,745.62

Group 0140: Landscaping

0036	661E99000	1.00	LS	\$19,095.00	\$19,095.00
SPECIAL - LANDSCAPING (SEE SUPPLEMENTAL ESTIMATE FOR ITEMIZED LANDSCAPE QUANTITIES)					
Total for Group 0140:					\$19,095.00

**OPINION OF PROBABLE CONSTRUCTION COST**  
**BELLBROOK STREETSCAPE - N. MAIN**  
**DATE: June 25, 2023**

**LANDSCAPE ITEMS**

Turfgrass Seed	620	SF	\$	0.25	\$	155.00
Topsoil Lawn (6" depth)	10	CY	\$	65.00	\$	650.00
Topsoil Plant Bed (12" depth)	13	CY	\$	65.00	\$	845.00
Plant Beds (Plant Material)	445	SF	\$	12.00	\$	5,340.00
Shredded Hardwood Mulch (2" depth)	3	CY	\$	90.00	\$	270.00
<b>LANDSCAPE SUBTOTAL</b>						<b>\$ 7,260.00</b>

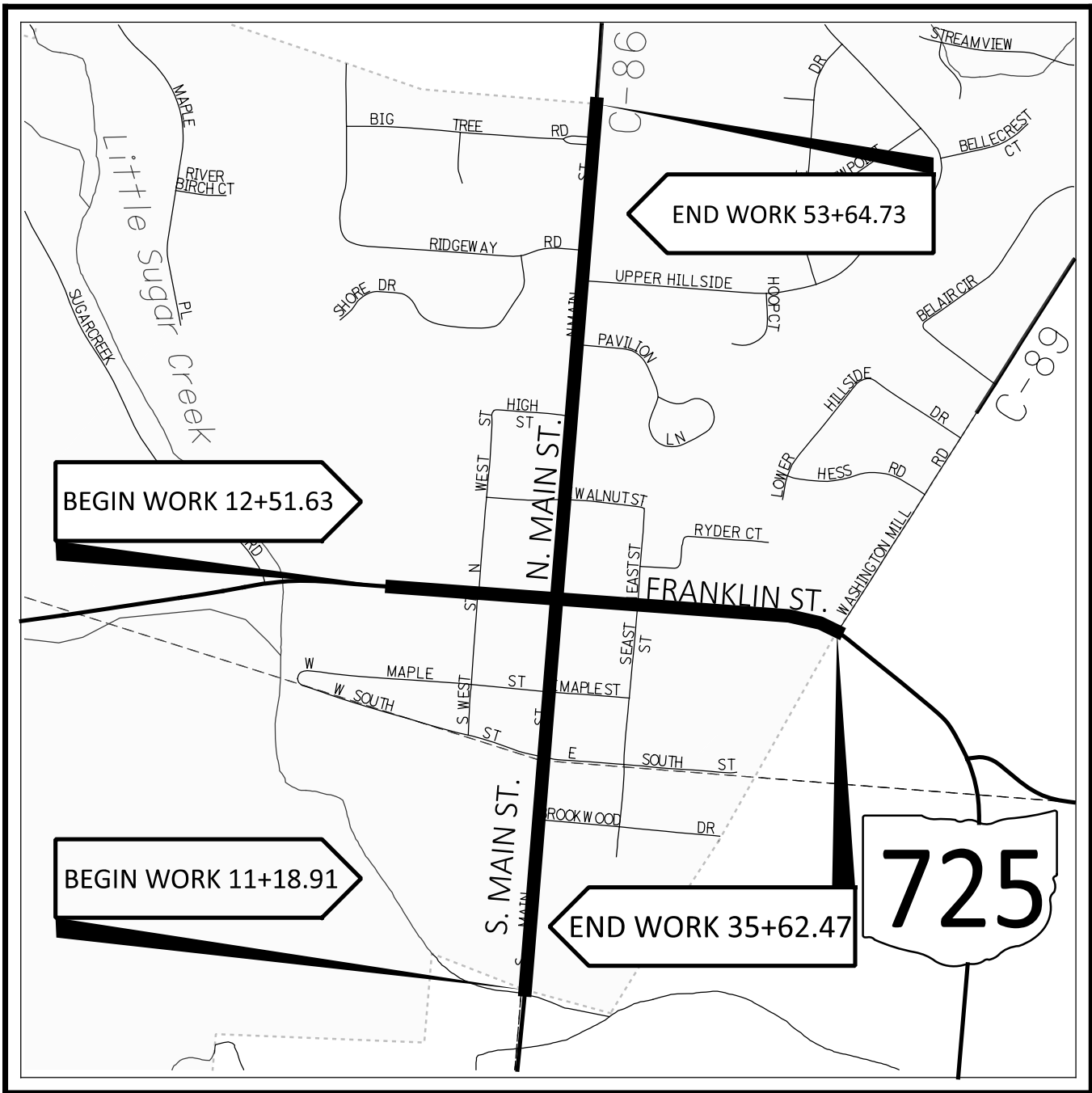
**SITE AMENITIES**

Planter	6	EA	\$	1,500.00	\$	9,000.00
Benches	1	EA	\$	1,975.00	\$	1,975.00
Bike Racks (installation only)	1	EA	\$	860.00	\$	860.00
<b>SITE AMENITIES SUBTOTAL</b>						<b>\$ 11,835.00</b>

<b>SUBTOTAL</b>	<b>± \$ 19,095.00</b>
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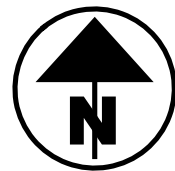
*\*Estimated Inflation costs included in full project cost estimate.*

THE LANDSCAPE ARCHITECT HAS USED HIS/HER BEST JUDGEMENT ON COST. THE LANDSCAPE ARCHITECT HAS NO CONTROL OVER THE COST OF LABOR, MATERIALS, OR THE CONTRACTOR'S METHODS OF DETERMINING BID PRICES, OR OVER COMPETITIVE BIDDING OR MARKET CONDITIONS. THEREFORE, THE LANDSCAPE ARCHITECT CANNOT GUARANTEE THAT BIDS OR CONSTRUCTION COST WILL NOT VARY FROM ANY ESTIMATES OF PROBABLE CONSTRUCTION COST PREPARED BY HIM/HER.



LOCATION MAP

LATITUDE: 39 °38'10" LONGITUDE: -84°04'15"



PORTION TO BE IMPROVED .....	
INTERSTATE HIGHWAY .....	
FEDERAL ROUTES .....	
STATE ROUTES .....	
COUNTY & TOWNSHIP ROADS .....	
OTHER ROADS .....	

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC	2
TYPICAL SECTIONS	3 - 4
GENERAL NOTES	5 - 6
MAINTENANCE OF TRAFFIC	7
GENERAL SUMMARY	8 - 9
PLAN SHEETS	10 - 23
CURB BUMP OUT DETAILS	24 - 25
INTERSECTION DETAILS	26 - 27
TRAFFIC CONTROL	28 - 42
LANDSCAPE ARCHITECTURE PLANS	43 - 47

# FRANKLIN AND MAIN STREET IMPROVEMENTS

GREENE COUNTY  
CITY OF BELLBROOK

FEDERAL PROJECT NUMBER

N/A

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

THIS PROJECT WILL MILL AND OVERLAY APPROXIMATELY 2,400 FT OF FRANKLIN STREET AND 4,500 FT OF MAIN STREET WITHIN THE CITY'S DOWNTOWN CORE. SEVERAL EXISTING CURB RAMPS WITHIN THE LIMITS WILL BE IMPROVED TO MEET ADA REQUIREMENTS. ENHANCED CROSSWALKS WILL ALSO BE CONSTRUCTED AT A CROSSING ON FRANKLIN ST AND THE WALNUT ST AND MAIN ST INTERSECTION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.25 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A*
* NOI NOT REQUIRED - PROJECT EDA < 1 ACRE	

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

UNDERGROUND UTILITIES

Contact Two Working Days  
Before You Dig

OHIO811.org  
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764  
(Non members must be called directly)

PLAN PREPARED BY:

Engineering  
Building Partnerships

LJB Inc.  
2500 Newmark Drive  
Miamisburg, OH 45342  
(866) 552-3536 | LJBinc.com

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ENGINEER'S SEAL

SHEETS 1-42

BRANT GRESSEL  
E-87761  
REGISTERED PROFESSIONAL ENGINEER

Brant Gressel  
Digitally signed by Brant Gressel  
DN: cn=LJB, o=LJB Inc., email=bgressel@ljbinc.com, cn=Brant Gressel  
Date: 2023.08.11 16:24:21 -0400

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	TC-71.10	4/21/23			800-2023 7/21/2023	
BP-5.1	7/15/22	TC-74.10	1/20/23			832 7/15/22	
BP-7.1	1/20/23	TC-87.10	7/21/23				
CB-3	7/16/21						
DM-1.1	7/17/20						
MT-95.61	4/19/19						
MT-97.11	1/20/17						
MT-99.20	4/19/19						
TC-41.20	10/18/13						
TC-42.20	10/18/13						
TC-52.10	10/18/13						
TC-52.20	1/15/21						

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ ROB SCHOMMER, BELLBROOK CITY MANAGER

DESIGN AGENCY

DESIGNER

DEA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

1

TOTAL

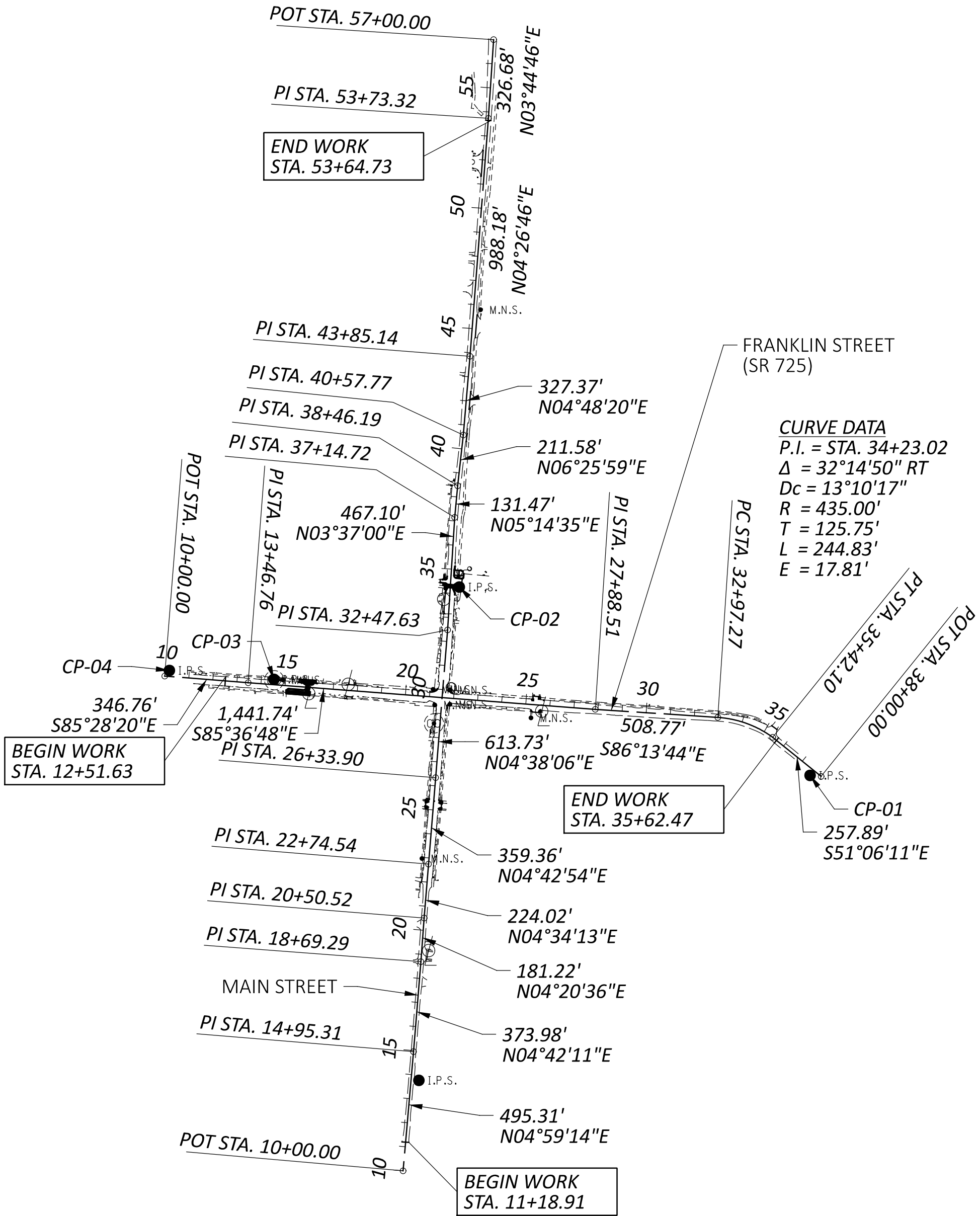
47



PROJECT CONTROL COORDINATES						
POINT NO.	GRID		GROUND		ELEVATION	DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING		
CP1	599391.20	1527676.12	599391.16	1527676.24	766.55	3"LJB CTRL Disk
CP2	600171.20	1526223.43	600171.23	1526223.43	798.10	3"LJB CTRL Disk
CP3	598128.26	1526056.03	598128.11	1526056.02	772.54	3"LJB CTRL Disk
CP4	599825.69	1525022.71	599825.69	125022.61	792.92	3"LJB CTRL Disk

PROJECT CENTERLINE COORDINATES - GROUND			
NORTHING	EASTING	STATION	DESCRIPTION
599802.381	1525003.275	10+00.00	POT
599775.006	1525348.958	13+46.76	PI
599664.732	1526786.477	27+88.51	PI
599631.269	1527294.142	32+97.27	PC
599622.998	1527419.620	34+23.02	PI
599549.051	1527521.331	35+42.10	PT
599387.114	1527722.045	38+00.00	POT

PROJECT CENTERLINE COORDINATES - GROUND			
NORTHING	EASTING	STATION	DESCRIPTION
597753.572	1525990.491	10+00.00	POT
598247.006	1526033.550	14+95.31	PI
598619.73	1526064.214	18+69.29	PI
598800.432	1526077.938	20+50.52	PI
599023.743	1526095.789	22+74.54	PI
599381.89	1526125.328	26+33.90	PI
599993.609	1526174.922	32+47.63	PI
600459.775	1526204.386	37+14.72	PI
600590.694	1526216.4	38+46.19	PI
600800.943	1526240.106	40+57.77	PI
601127.16	1526267.53	43+85.14	PI
602112.368	1526344.137	53+73.32	PI



LEGEND

- 1

ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- 2

ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT 0.055 GAL/SY)
- 3

ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22, (449)
- 4

ITEM 304 - 8" AGGREGATE BASE (PLACED IN TWO EQUAL COURSES)
- 5

ITEM 441 - 2 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
- 6

ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT 0.085 GAL/SY)
- 7

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1 ½")
- 8

ITEM 608 - 4" CONCRETE WALK
- 9

ITEM 609 - CURB, TYPE 6
- 10

ITEM 659 - SEEDING AND MULCHING
- 11

ITEM 204 - SUBGRADE COMPACTION
- 12

ITEM 608 - WALKWAY, MISC: SIDEWALK PAVERS (SEE GENERAL NOTES, SHEET 5)
- 13

ITEM 611 - SPECIAL - TRENCH DRAIN (SEE GENERAL NOTES, SHEET 5)

- A

EXISTING PAVEMENT
- B

EXISTING CURB
- C

EXISTING CURB AND GUTTER
- D

EXISTING WALK

- A

MATCH EXISTING BACK OF WALK
- D

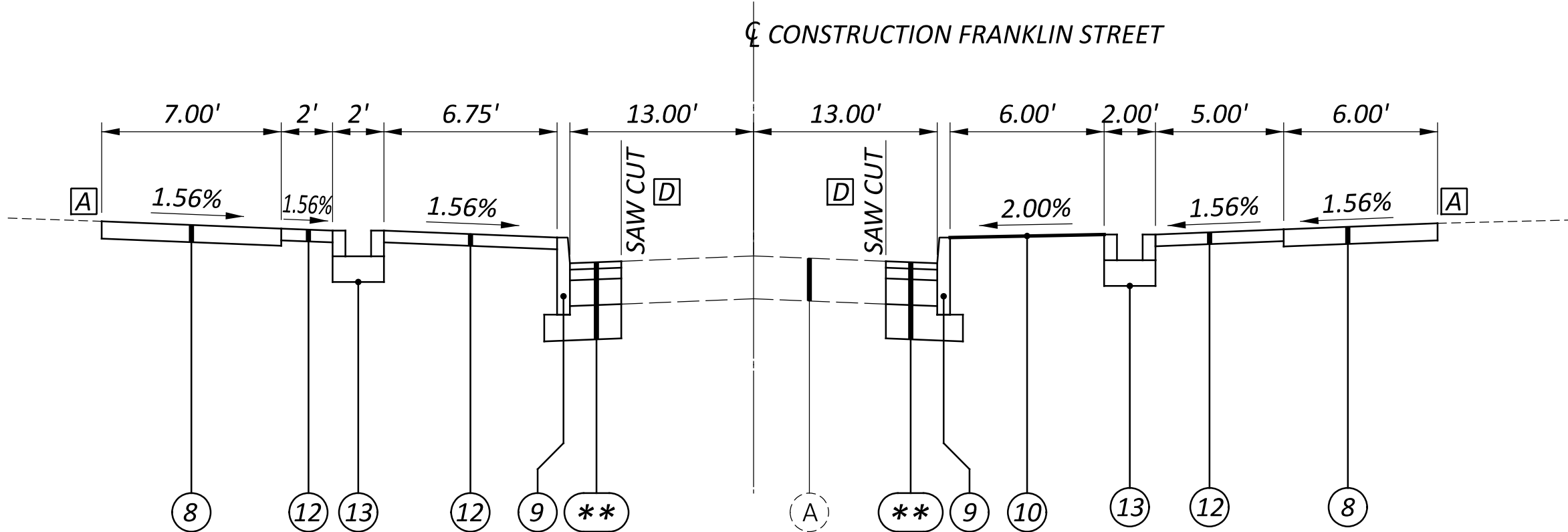
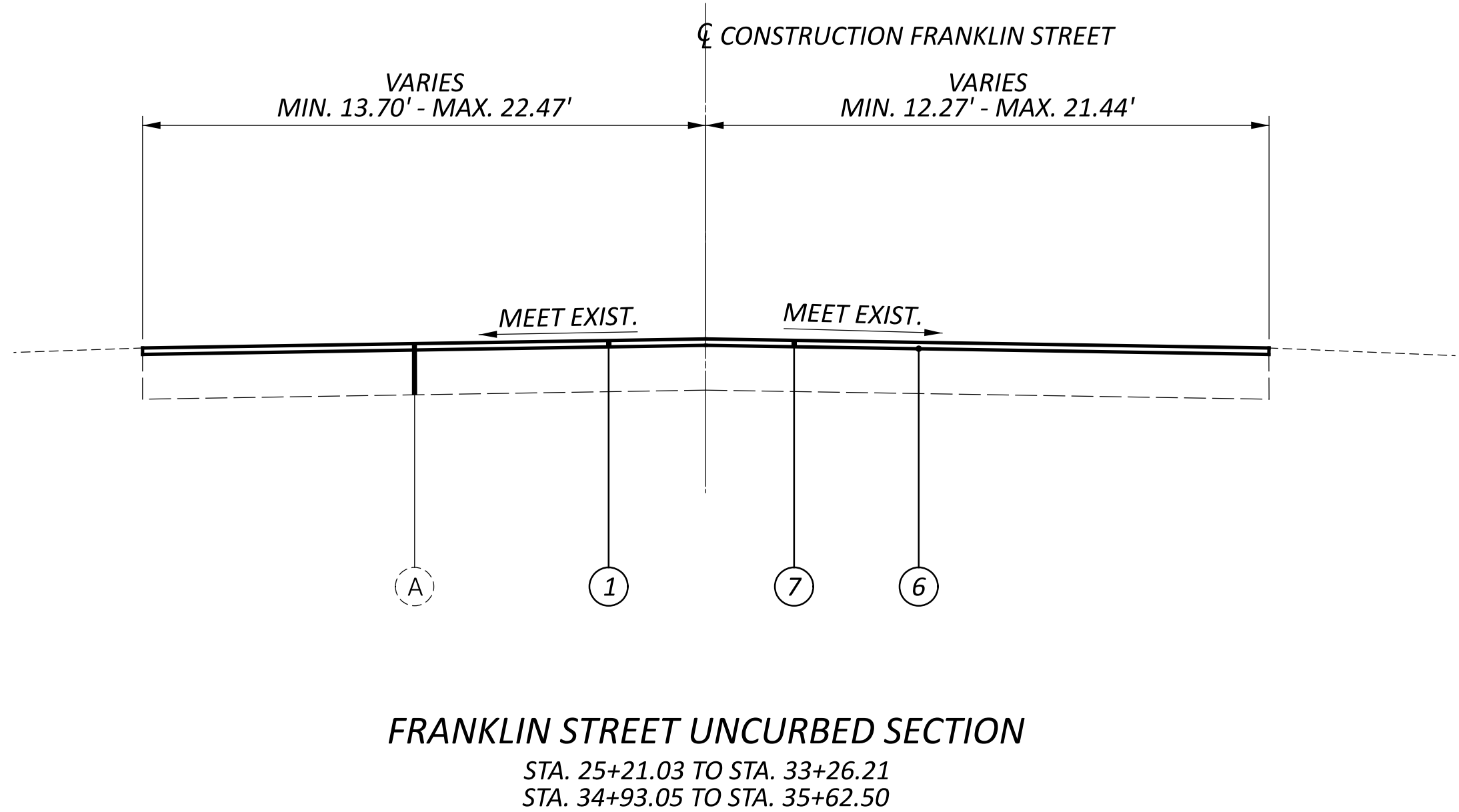
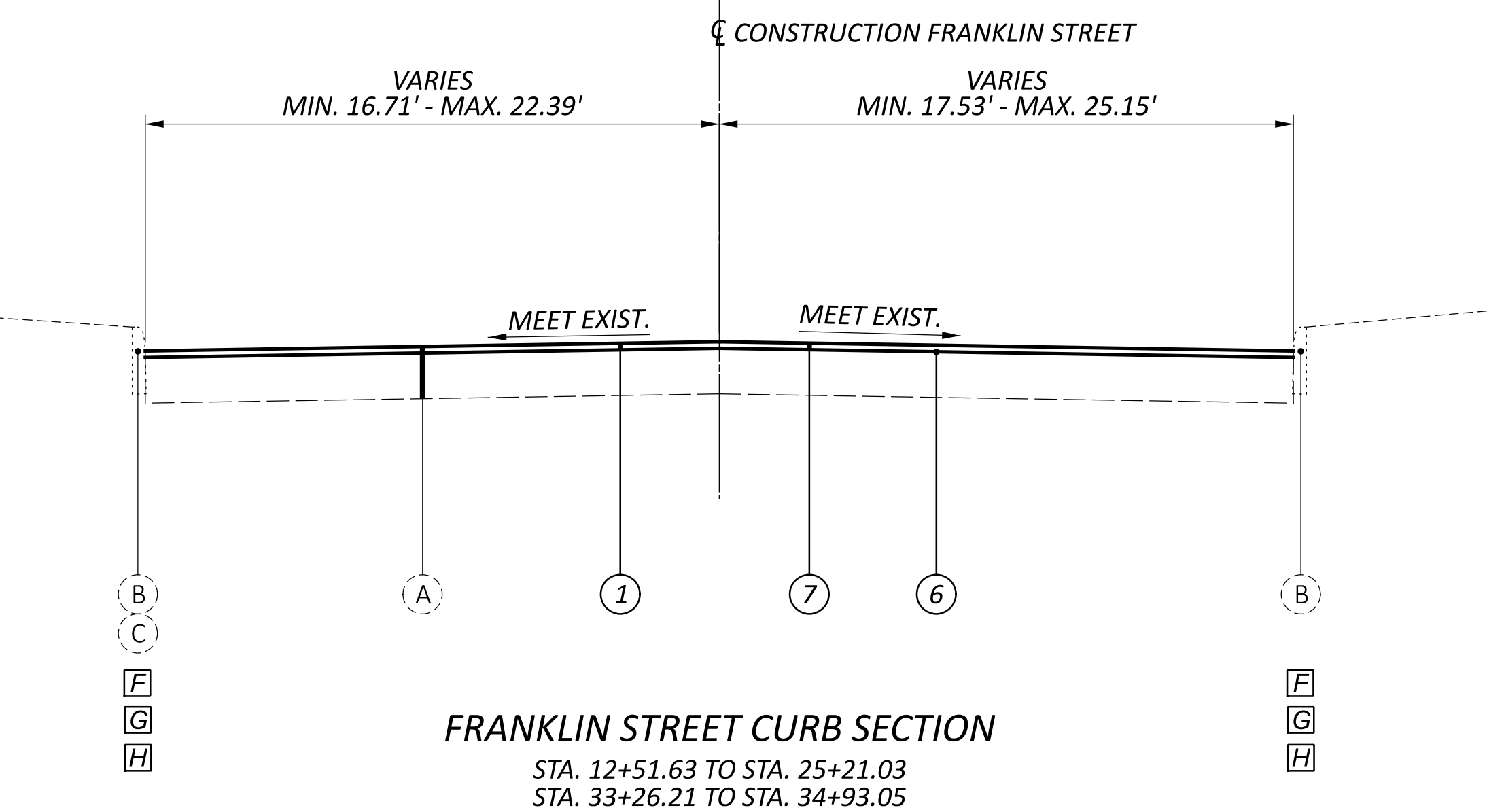
THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT EITHER 1 FT INTO THE EXISTING PAVEMENT OR 2 FT FROM THE PROPOSED CURB, WHICHEVER IS GREATER, TO LOCATE A SOUND PAVEMENT EDGE, FOR ESTIMATING PURPOSES, QUANTITIES INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 1 FT OF EXISTING PAVEMENT BEING REPLACED.

- F

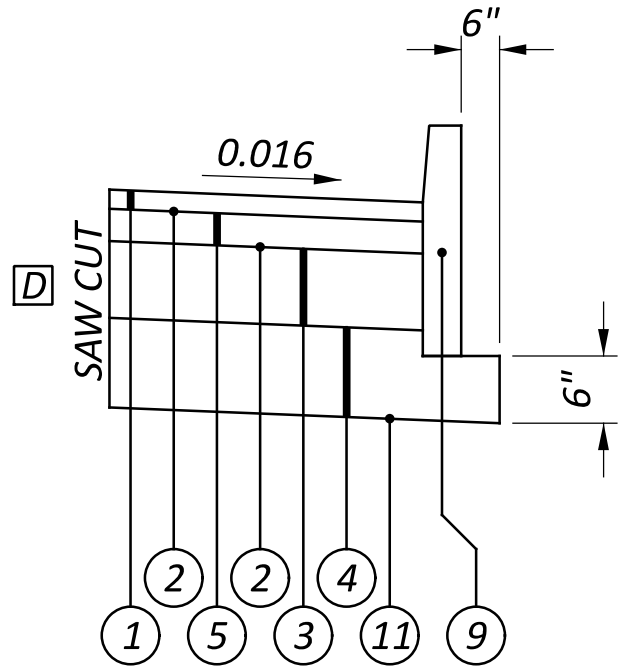
ASPHALT CURB  
STA. 12+51.63 LT TO 17+85.78 LT  
STA. 12+51.63 RT TO 14+22.10 RT  
STA. 16+25.66 RT TO 19+60.35 RT
- G

BARRIER CURB  
STA. 14+22.10 RT TO 16+25.66 RT  
STA. 17+85.78 LT TO 25+21.03 LT  
STA. 19+60.35 RT TO 25+21.03 RT
- H

CURB AND GUTTER  
STA. 33+26.21 LT TO STA. 34+93.05 LT



FRANKLIN STREET CURB BUMP OUT (SEE SHEET 24)  
STA. 15+07.08 RT TO STA. 16+04.58 RT  
STA. 15+55.49 LT TO STA. 16+31.09 LT

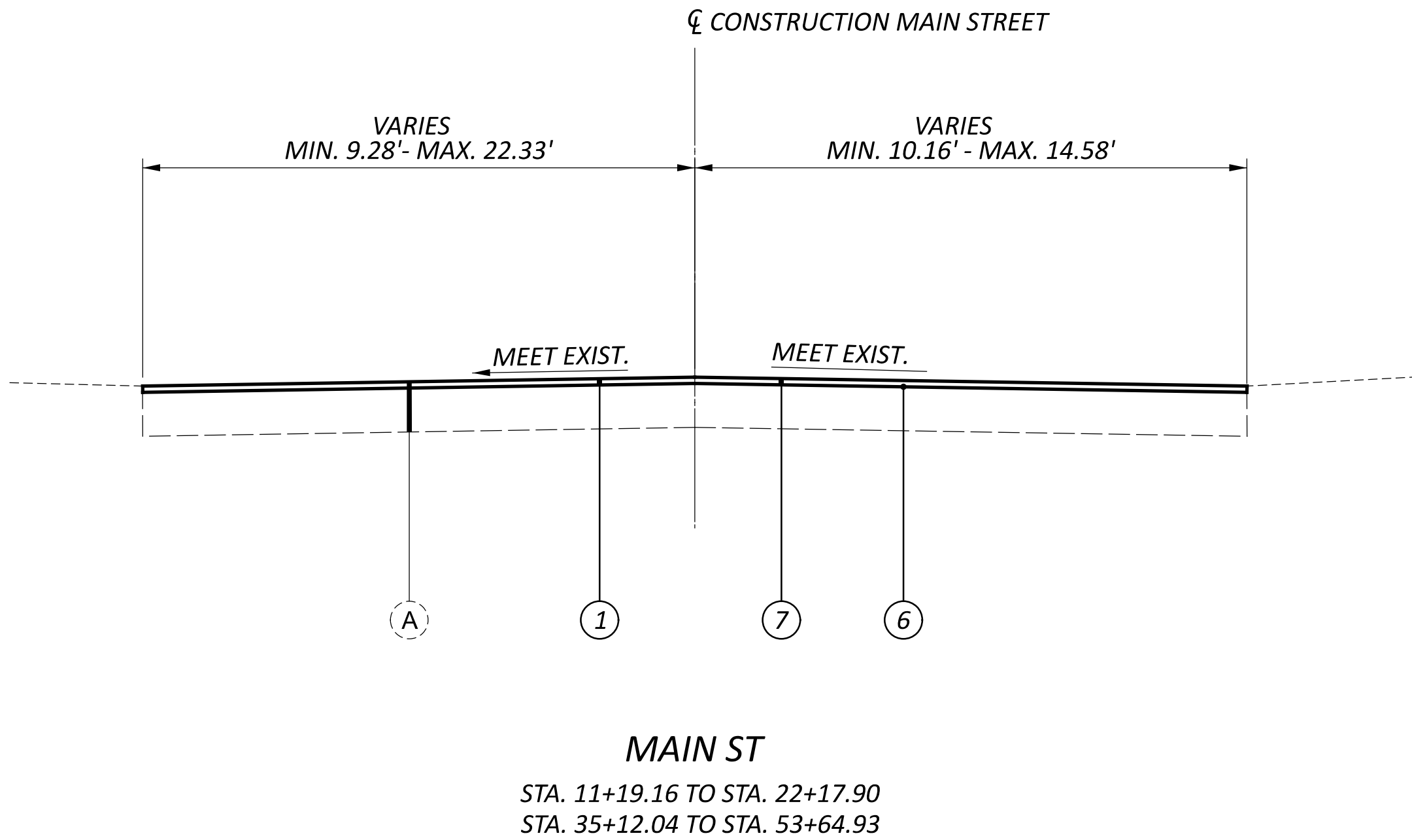
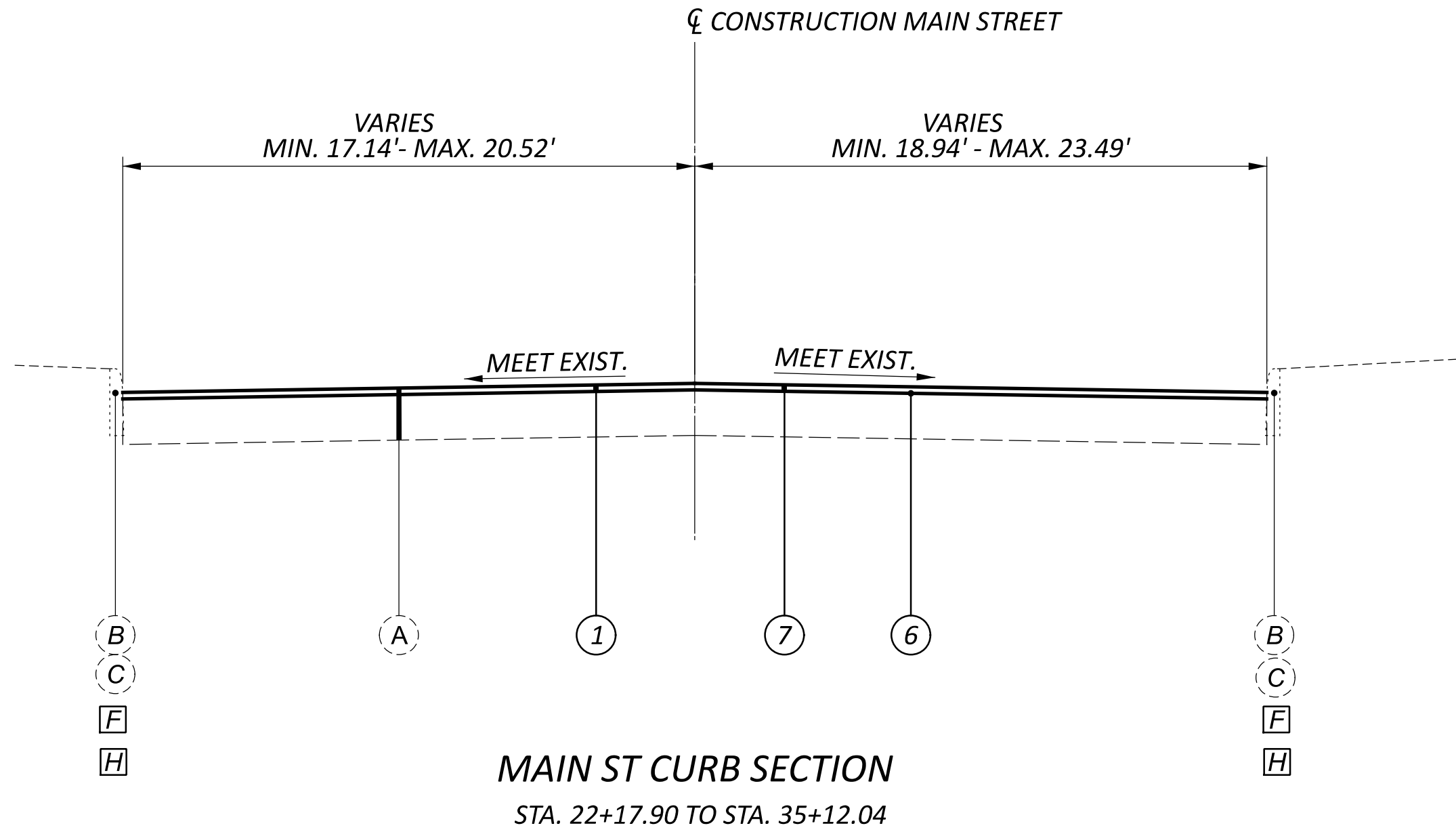


**F** ASPHALT CURB

STA. 11+19.39 TO 22+18.08  
STA. 34+33.97 TO 53+73.32

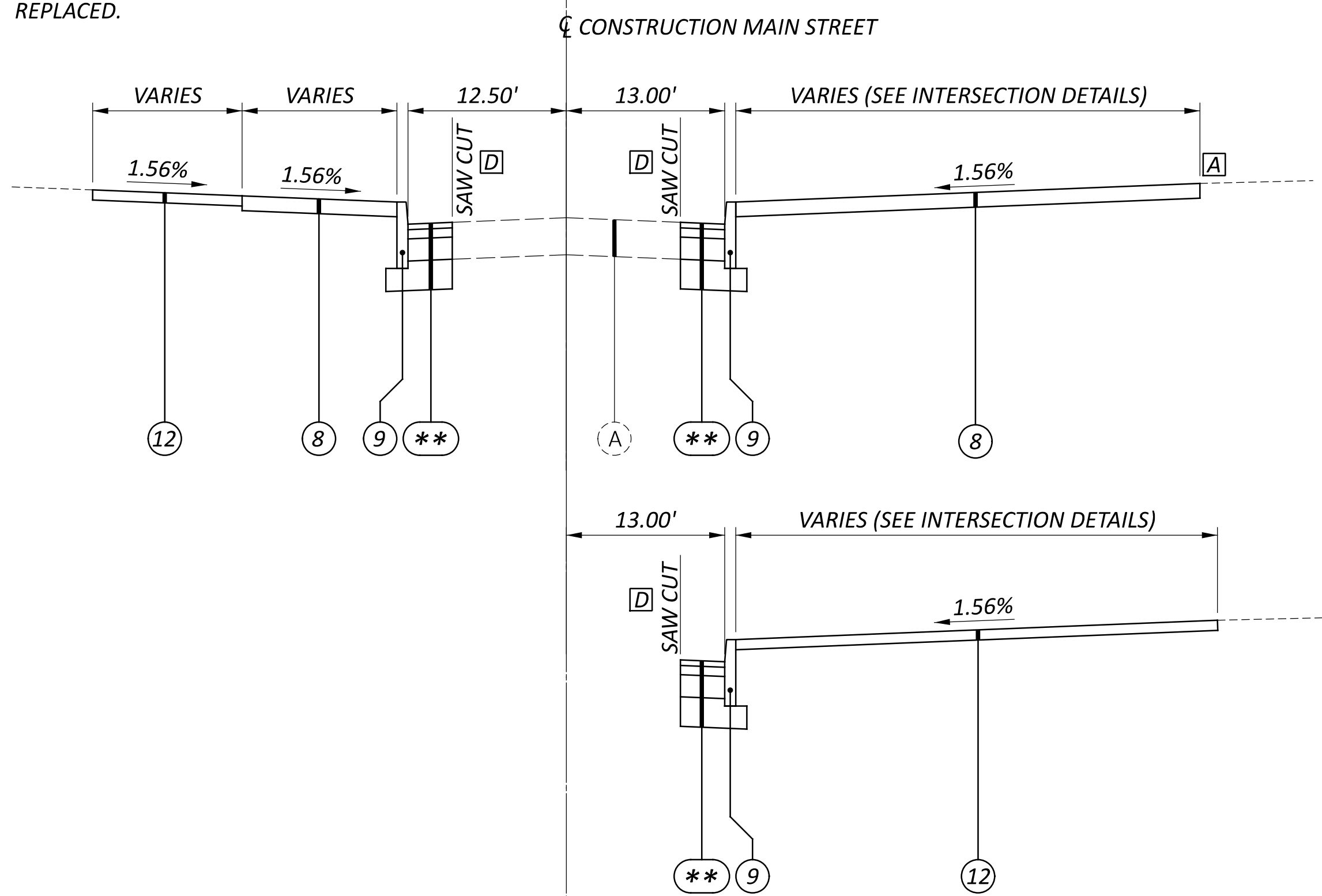
**H** CURB AND GUTTER

STA. 22+18.08 TO STA. 34+33.97



**D** THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT EITHER 1 FT INTO THE EXISTING PAVEMENT OR 2 FT FROM THE PROPOSED CURB, WHICHEVER IS GREATER, TO LOCATE A SOUND PAVEMENT EDGE. FOR ESTIMATING PURPOSES, QUANTITIES INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 1 FT OF EXISTING PAVEMENT BEING REPLACED.

**A** MATCH EXISTING BACK OF WALK



UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

GAS:  
CENTERPOINT ENERGY COMPANY (DISTRIBUTION)  
KELLY SPURLOCK  
6500 CLYO RD.  
CENTERVILLE, OH 45459  
937-291-7116  
KELLY.SPURLOCK@CENTERPOINTENERGY.COM

CENTERPOINT ENERGY COMPANY (TRANSMISSION)  
NICK DEARING  
6500 CLYO RD.  
CENTERVILLE, OH 45459  
765-648-3246  
NICHOLAS.DEARING@CENTERPOINTENERGY.COM

ELECTRIC:  
AES OHIO  
WILLIAM WARD  
1900 DRYDEN RD.  
DAYTON, OH 45439  
937-554-9063  
WILLIAM.WARD@AES.COM

WATER:  
CITY OF BELLBROOK  
RYAN PASLEY  
15 EAST FRANKLIN ST.  
BELLBROOK, OH 45305  
937-296-3588  
R.PASLEY@CITYOFBELLBROOK.ORG

GREENE COUNTY SANITARY ENGINEERS  
667 DAYTON-XENIA RD.  
XENIA, OH 45385  
937-562-7461  
SED\_PED@GREENECOUNTYOHIO.GOV

SANITARY:  
GREENE COUNTY SANITARY ENGINEERS  
667 DAYTON-XENIA RD.  
XENIA, OH 45385  
937-562-7461  
SED\_PED@GREENECOUNTYOHIO.GOV

TELECOMM:  
AT&T - OHIO  
HOWARD LAUDERMILK  
3233 WOODMAN DR.  
DAYTON, OH 45420  
937-296-3588  
HL1596@ATT.COM

CHARTER COMMUNICATIONS  
TARA WILLIAMSON  
3691 TURNER RD.  
DAYTON, OH 45415  
937-425-6854  
TARA.WILLIAMSON@CHARTER.COM

LUMEN  
TERRY SPAW  
9490 MERIDIAN WAY  
WEST CHESTER, OH 45069  
513-615-2282  
TERRY.SPAW@LUMEN.COM

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEIOD 18 (CONUS)

HORIZONTAL POSITIONING

ELLIPSOID: 804.5'  
COMBINED SCALE FACTOR: 0.999912288

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

FULL DEPTH PAVEMENT AND SIDEWALK REPAIR

THE ENGINEER/INSPECTOR SHALL COMPELTE A FIELD VERIFICATION OF THE EXISTING ASPHALT PAVEMENT AND CONCRETE SIDEWALK TO DETERMINE THE AMOUNT OF FULL DEPTH AND SIDEWALK REPAIR NEEDED. THE PAVEMENT BUILDUP FOR FULL DEPTH PAVEMENT REPAIR SHALL MATCH THE FULL DEPTH PAVEMENT BUILDUP SHOWN ON THE TYPICAL SECTIONS ON SHEET 2.

THE FOLLOWING QUANITIES SHALL BE USED, AT THE DISCRETION OF THE ENGINEER/INSPECTOR, AS REPLACEMENT FOR PAVEMENT AND/OR SIDEWALK IN POOR CONDITION.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN	400 SY
ITEM 608 - 4" CONCRETE WALK	1180 SF

CONSTRUCTION LIMITS

THE CONSTRUCTION LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE CONSTRUCTION LIMITS.

ADDITIONALLY, CONSTRUCTION LIMITS FOR AREAS OUTSIDE OF CURB BUMP OUTS AND CURB RAMP REPLACEMENTS SHALL BE LIMITED TO THE EDGE OF PAVEMENT, FACE OF CURB AND/OR FACE OF GUTTER PLATE. EXACT CONSTRUCTION LIMIT LINES ARE NOT SHOWN WITHIN AREAS OF RESURFACING, FOR CLARITY.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	1	0	1

ITEM 608 - DETECTABLE WARNING, AS PER PLAN

REMOVE EXISTING BRICK DETECTABLE WARNING AND REPLACE WITH BRICK RED DETECTABLE WARNING PADS, AS SUPPLIED BY ADA SOLUTIONS OR APPROVED EQUAL. FOLLOW SPECIFICATIONS OUTLINED IN ODOT CMS SECTION 608.07. ALL LABOR AND MATERIAL REQUIRED TO REMOVE EXISTING DETECTABLE WARNINGS AND INSTALL NEW DETECTABLE WARNINGS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR ITEM 608 - DETECTABLE WARNING, AS PER PLAN.

ITEM 608 - WALKWAY, MISC: SIDEWALK PAVERS

PAVING BRICK PAVER SHALL BE NOMINALLY 4" X 8" X 21/4" BRICK, SOLID (UNCORED) COMPLYING WITH REQUIREMENTS OF ASTM C902, CLASS SX, TYPE I STANDARD SPECIFICATIONS FOR PEDESTRIAN AND LIGHT TRAFFIC.

FINAL PAVER APPROVAL SHALL BE MADE ON SITE. CONTRACTOR SHALL PERFORM MOCKUP WITH A FIELD SAMPLE FOR REVIEW AND APPROVAL OF PAVERS PRIOR TO INSTALLATION OF UNIT PAVERS. THE FOLLOWING COLOR SHOULD BE USED IN PAVER INSTALLATION:

"LIGHT COLOR" - "CLEAR RED (RUSTIC) #30" PER WG, OR APPROVED EQUAL.

WG = WHITAKER GREER PAVERING BRICK CO., 1400 S. MAHONING AVE., AFFIANCE, OH 44601, 800-947-2837

BITUMINOUS SETTING-BED MATERIALS

PRIMER FOR BASE: ASTM D 2028/D 2028M, CUTBACK ASPHALT, GRADE AS RECOMMENDED BY UNIT PAVER MANUFACTURER.

FINE AGGREGATE FOR SETTING BED: ASTIM D 1073, NO. 2 OR NO. 3

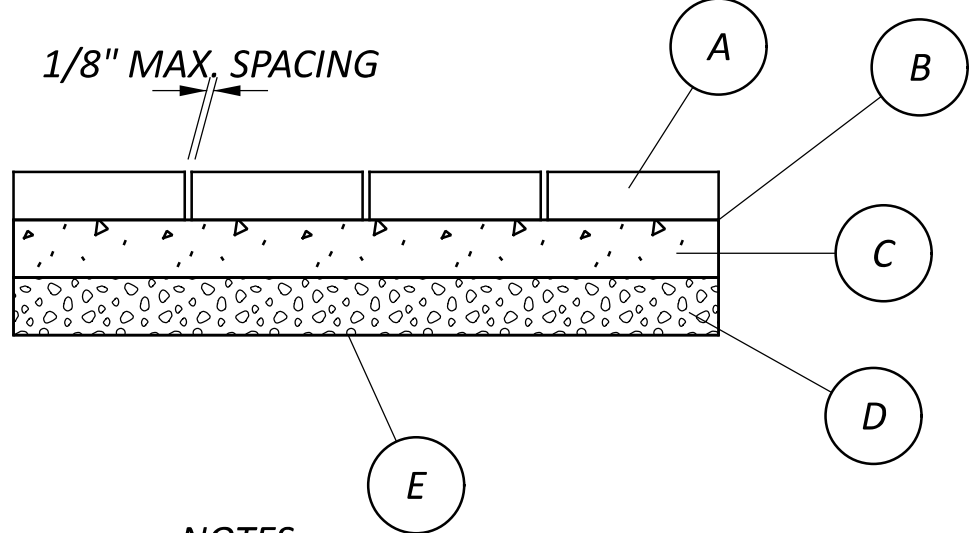
ASPHALT CEMENT: ASTM D 3381/D 3381M, VISCOSITY GRADE AC-10 OR GRADE AC-20

NEOPRENE MODIFIED ASPHALT ADHESIVE: PAVING MANUFACTURER'S STANDARD ADHESIVE CONSISTING OF OXIDIZED ASPHALT COMBINED WITH 2 PERCENT NEOPRENE AND 10 PERCENT LONG-FIBERED MINERAL FIBERS CONTAINING NO ASBESTOS

SAND FOR JOINTS: POLYMERIC SAND: FINE, SHARP, WASHED, NATURAL SAND OR CRUSHED STONE WITH 100 PERCENT PASSING NO. 16 SIEVE ADN NO MORE THAN 10 PERCENT PASSING NO. 200 SIEVE, MIXED WITH POLYMERS FOR PAVEMENT JOINT STABILIZATION.

1. PROVIDE SAND OF COLOR NEEDED TO PRODUCE REQUIRED JOINT COLOR.

MIX BITUNIMOUS SETTING-BED MATERIALS AT AN ASPHALT PLANT IN APPROXIMATE PROPORTION, BY WEIGHT, OF 7 PERCENT ASPHALT CEMENT TO 93 PERCENT FINE AGGREGATE UNLESS OTHERWISE INDICATED. HEAT MIXTURE TO 300 DEGREES F.



- NOTES:
- (A) PAVERS
  - (B) 3/4" BITUMINOUS SETTING-BED
  - (C) 4" ITEM 452 - NON-REINFORCED CONCRETE
  - (D) 4" ITEM 304 - AGGREGATE BASE
  - (E) COMPACTED SUBGRADE PER 204.03

ITEM 611 - SPECIAL - TRENCH DRAIN

FURNISH AND CONSTRUCT A TRENCH DRAIN SYSTEM, TO CONVEY STORM WATER THROUGH PROPOSED CURB BUMP OUTS SHOWN ON SHEETS 24 AND 25. THE TRENCH DRAIN SYSTEM SHALL BE A NEENAH FOUNDRY 4990-FX, WITH RIVERWALK GRATE, OR APPROVED EQUAL. ALL LABOR AND MATERIALS NEEDED TO CONSTRUCT THE TRENCH DRAINS IDENTIFIED IN THE PLANS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR ITEM 611 - SPECIAL - TRENCH DRAIN.

ITEM 661 - SPECIAL - LANDSCAPING

LANDSCAPE ARCHITECTURE AND AESTHETICS PLANS ARE SHOWN ON SHEETS 43 TO 47. ALL LABOR AND MATERIALS TO PERFORM THE WORK OUTLINED IN THESE PLANS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THIS ITEM.

WORK SHOWN ON SHEET 44 SHALL BE BID SEPARATE AND INCLUDED WITH THE ALTERNATE BID QUANTITIES SHOWN ON SHEET 9.

AN ITEMIZED LIST OF PLANTS, SHRUBS, BOULDERS, BIKE RACKS AND OTHER MISCENALLEOUS ITEMS, CAN BE FOUND ON SHEETS 43 AND 44. THESE ITEMS SHOULD ALL BE INLCLUDED IN THE CONTRACT UNIT BID PRICE FOR ITEM 661 - SPECIAL - LANDSCAPING.

ALTERNATE BID - WALNUT AND MAIN STREET CURB BUMP OUT

THE CURB BUMP OUT WORK SHOWN ON SHEET 25, AT THE WALNUT AND MAIN STREET INTERSECTION, SHALL BE INCLUDED IN THE PROJECT BID PACKAGE AS AN ALTERNATE BID. THE CITY OF BELLBROOK RESERVES THE RIGHT TO AWARD THE PROJECT AND REJECT THE ALTERNATE BID FOR THIS WORK.

IN THE EVENT THE ALTERNATE BID IS NOT AWARDED, RESURFACING AND PLACEMENT OF PAVEMENT MARKINGS SHALL REMAIN A PART OF THE MAIN PROJECT, TO THE LIMITS SHOWN ON THE PLANS.



PART 1 - GENERAL

1.1 RELATED DOCUMENTS  
A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 RELATED SECTIONS  
1. SECTION {321216} - "ASPHALT PAVING" FOR NEW ASPHALT PAVEMENT.  
2. SECTION {321723} PLASTIC PAVEMENT MARKINGS

1.3 SUMMARY  
A. DECORATIVE IMPRESSED ASPHALT SHALL CONSIST OF A DURABLE IMPRESSED AGGREGATE REINFORCED PREFORMED THERMOPLASTIC PAVEMENT MARKING SYSTEM (HEREIN "SYSTEM") THAT PROVIDES A TEXTURED, HIGHLY ATTRACTIVE AND DURABLE TOPICAL TREATMENT TO THE SURFACE OF THE ASPHALT PAVEMENT.

B. THE SYSTEM IS INTENDED FOR USE ON ASPHALT PAVEMENTS TO CREATE TRAFFIC CALMING SOLUTIONS FOR DECORATIVE CROSSWALKS, MEDIANS, AND INTERSECTIONS. IT IS APPLIED OVER PAVEMENT TO CREATE FUNCTIONAL AND DECORATIVE CROSSWALKS AND INTERSECTIONS, AS SHOWN ON THE CONTRACT DRAWINGS.

C. ALL SYSTEM MATERIALS SHALL BE PRODUCED UNDER A QUALITY SYSTEM AS SPECIFIED IN THIS SECTION AND DESIGNED TO PROVIDE DURABILITY, LOAD CARRYING CAPACITY AND ARCHITECTURAL COMPATIBILITY WITH THE ENVIRONMENT. ALL RAW MATERIALS SHALL BE CAREFULLY GRADED FOR CONSISTENCY AND QUALITY TO OBTAIN THE HIGHEST STANDARDS.

D. THE SYSTEM SHALL BE INSTALLED TO THE EXISTING SUBSTRATE.

E. ONLY ACCREDITED DECORATIVE IMPRESSED ASPHALT SYSTEM INSTALLERS AUTHORIZED BY THE MANUFACTURERS OF THE DECORATIVE IMPRESSED ASPHALT PRODUCT MAY PERFORM THIS WORK.

1.4 UNIT PRICES  
A. WORK OF THIS SECTION IS BASED ON LABOR AND MATERIALS PER PROJECT.

B. METHOD OF MEASUREMENT: THE WORK WILL BE MEASURED BY THE INSTALLED AREA OF SQUARE FEET, MEASURED AND ACCEPTED IN PLACE. NO DEDUCTION WILL BE MADE FOR THE AREA(S) OCCUPIED BY MANHOLES, INLETS, DRAINAGE STRUCTURES, BOLLARDS OR BY ANY PUBLIC UTILITY APPURTENANCES WITHIN THE AREA.

C. BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "DECORATIVE IMPRESSED ASPHALT PAVEMENT MARKING"AND ACCEPTED IN PLACE. PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENT, TOOLS AND LABOR INCIDENTAL THERETO. THERE WILL BE NO DIRECT PAYMENT FOR SURFACE PREPARATION; BUT THE COST OF THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE GENERAL COST OF THE WORK.

1.5 PREINSTALLATION MEETINGS  
A. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE (INSERT LOCATION).  
B. CONFERENCE SHALL CONSIST OF OWNER, OWNERS REPRESENTATIVE, ENGINEER, LANDSCAPE ARCHITECT, CERTIFIED APPLICATOR, MANUFACTURER'S REPRESENTATIVE.

1.6 DEFINITIONS  
A. "HMA PAVEMENT" IS HOT MIX ASPHALT PAVEMENT.

B. "PCC PAVEMENT" IS PORTLAND CEMENT CONCRETE PAVEMENT.

C. "OWNER" MEANS THE OWNER AND REFERS TO THE REPRESENTATIVE PERSON OF THE CERTIFIED APPLICATOR WHO HAS DECISION MAKING AUTHORITY FOR THE WORK.

D. "ACCREDITED INSTALLER" REFERS TO A CONTRACTOR AUTHORIZED BY THE SYSTEM MANUFACTURER TO INSTALL THE DECORATIVE IMPRESSED ASPHALT (SYSTEM).

1.7 SUBMITTALS  
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT PER MANUFACTURER'S OFFERING.

B. MANUFACTURER DATA: SYSTEM TYPE AND PRODUCT TYPE

C. SAMPLES FOR INITIAL SELECTION: FOR EACH TYPE OF PRODUCT REQUIRING COLOR SELECTION. SAMPLES FOR VERIFICATION: FOR EACH PATTERN AND COLOR IN MANUFACTURER'S STANDARD SIZES.

D. THE ACCREDITED INSTALLER SHALL PROVIDE WRITTEN PROOF OF THEIR ACCREDITATION.

E. THE ACCREDITED INSTALLER SHALL GAIN CONFIRMATION OF CORRECT STAMPING PATTERN(S) AND COLORS FROM THE CITY OF BELLBROOK PRIOR TO STARTING THE WORK.

F. THE ACCREDITED INSTALLER SHALL SUPPLY THREE REFERENCES OF WORK OF A SIMILAR NATURE PROVIDED TO THE CITY OF BELLBROOK WITHIN THE STATE OF OHIO.

G. CONSTRUCTION OF MOCK-UP (SHALL BE A MINIMUM OF A 6'X6' SECTION FOR EACH COLOR AND STAMP PATTERN SPECIFIED).

H. THE SYSTEM MANUFACTURER MUST BE ISO9001:2015 CERTIFIED FOR DESIGN, DEVELOPMENT AND MANUFACTURING OF PREFORMED THERMOPLASTIC, AND PROVIDE PROOF OF CURRENT CERTIFICATION.

I. SHOP DRAWINGS: INDICATE IMPRESSED PATTERNS, COLORS, AND DIMENSIONS TO ADJACENT WORK

1.8 QUALITY ASSURANCE  
A. INSTALLER QUALIFICATIONS: IMPRESSED-ASPHALT MANUFACTURER'S AUTHORIZED INSTALLER WHO IS TRAINED AND APPROVED FOR INSTALLATION OF IMPRESSED ASPHALT REQUIRED FOR THIS PROJECT.

B. REGULATORY REQUIREMENTS: COMPLY WITH MATERIALS, WORKMANSHIP, AND OTHER APPLICABLE REQUIREMENTS OF THE ODOT CMS FOR IMPRESSED ASPHALT WORK.

1. MEASUREMENT AND PAYMENT PROVISIONS AND SAFETY PROGRAM SUBMITTALS INCLUDED IN STANDARD SPECIFICATIONS DO NOT APPLY TO THIS SECTION.

1.9 FIELD CONDITIONS  
A. ENVIRONMENTAL LIMITATIONS: PROCEED WITH IMPRESSED PAVEMENT ONLY WHEN AIR TEMPERATURE IS AT LEAST 45 DEG F (7.2 DEG C) AND RISING. PROCEED ONLY IF NO PRECIPITATION IS EXPECTED. ENSURE THERE IS NO MOISTURE IN THE SUBSTRATE PRIOR TO APPLICATION. GROUND SHOULD NOT HAVE ANY FROST OR MOISTURE PRESENT. HIGH WINDS COULD ALSO AFFECT THE INSTALLATION OF THE IMPRESSED MATERIAL.

PART 2 - PRODUCTS

2.1 MATERIALS  
A. MANUFACTURER - BASIS OF DESIGN ENNIS-FLINT, INC. TRAFFICPATTERNSXD@IMPRESSED SURFACE SYSTEM  
1. CONTACT WWW.ENNISFLINTAMERICAS.COM

B. DECORATIVE IMPRESSED ASPHALT MATERIAL

1. PREFORMED THERMOPLASTIC MATERIAL: MUST BE COMPOSED OF AN ESTER MODIFIED ROSIN IMPERVIOUS TO DEGRADATION BY MOTOR FUELS, LUBRICANTS, ETC. IN CONJUNCTION WITH AGGREGATES, PIGMENTS, BINDERS, AND ANTI-SKID/ANTI-SLIP ELEMENTS. PIGMENTS AND ANTI-SKID/ANTI-SLIP ELEMENTS MUST BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL. THE MATERIAL CONFORMS TO AASHTO DESIGNATION M249, WITH THE EXCEPTION OF THE RELEVANT DIFFERENCES DUE TO THE MATERIAL BEING SUPPLIED IN A PREFORMED STATE, BEING NON-REFLECTIVE, AND POTENTIALLY BEING OF A COLOR DIFFERENT FROM WHITE OR YELLOW.

2. THE SYSTEM SHALL UTILIZE A RESILIENT, AGGREGATE REINFORCED PREFORMED THERMOPLASTIC PRODUCT WHICH CONTAINS A MINIMUM OF THIRTY PERCENT (30%) INTERMIXED ANTI-SKID/ANTI-SLIP ELEMENTS AND WHERE THE TOP SURFACE CONTAINS ANTI-SKID/ANTI-SLIP ELEMENTS. THESE ANTI-SKID/ANTI-SLIP ELEMENTS MUST HAVE A MINIMUM HARDNESS OF 6 (MOHS SCALE).

3. THE SYSTEM MUST BE RESISTANT TO THE DETRIMENTAL EFFECTS OF MOTOR FUELS, ANTIFREEZE, LUBRICANTS, HYDRAULIC FLUIDS, ETC.

4. PIGMENTS:

A. WHITE: THE MATERIAL SHALL BE MANUFACTURED WITH SUFFICIENT TITANIUM DIOXIDE PIGMENT TO MEET FHWA DOCKET NO. FHWA-99-6190 TABLE 5 AND TABLE 6 AS REVISED AND CORRECTED.

B. OTHER COLORS: THE PIGMENT SYSTEM MUST NOT CONTAIN HEAVY METALS NOR ANY CARCINOGEN, AS DEFINED IN 29 CFR 1910.1200 IN AMOUNTS EXCEEDING PERMISSIBLE LIMITS AS SPECIFIED IN RELEVANT FEDERAL REGULATIONS.

5. SKID RESISTANCE: THE SURFACE OF THE MATERIAL SHALL CONTAIN FACTORY APPLIED ANTI-SKID/ANTI-SLIP ELEMENTS WITH A MINIMUM HARDNESS OF 6 (MOHS SCALE). UPON APPLICATION THE MATERIAL SHALL PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM E 303.

6. SLIP RESISTANCE: THE SURFACE OF THE MATERIAL SHALL CONTAIN FACTORY APPLIED ANTI-SKID/ANTI-SLIP ELEMENTS WITH A MINIMUM HARDNESS OF 6 (MOHS SCALE). UPON APPLICATION THE MATERIAL SHALL PROVIDE A MINIMUM STATIC FRICTION OF COEFFICIENT OF 0.6 WHEN TESTED ACCORDING TO ASTM C 1028 (WET AND DRY), AND A MINIMUM STATIC COEFFICIENT OF FRICTION OF 0.6 WHEN TESTED ACCORDING TO ASTM D 2047.

7. THICKNESS: THE MATERIAL MUST BE SUPPLIED AT A MINIMUM THICKNESS OF 150 MIL (3.8MM).

8. ENVIRONMENTAL RESISTANCE: THE MATERIAL MUST BE RESISTANT TO DETERIORATION DUE TO EXPOSURE TO SUNLIGHT, WATER, SALT OR ADVERSE WEATHER CONDITIONS AND IMPERVIOUS TO OIL AND GASOLINE.

C. DECORATIVE IMPRESSED ASPHALT MATERIAL STAMPING GRID: A WIRE ROPE GRID IS REQUIRED IN THE EXECUTION OF THE SYSTEM. THE GRID IS USED FOR IMPRESSING THE DEFINED PATTERNS ONCE THE PREFORMED THERMOPLASTIC HAS BEEN APPLIED. THE WIRE ROPE DIAMETER FOR THE IMPRESSING TEMPLATE USED FOR THE SPECIFIED PATTERN IS 3/8 IN. (9.5MM). THE STAMPING GRIDS ARE DISTRIBUTED BY THE SYSTEM MANUFACTURER.

D. HEATING EQUIPMENT: SYSTEM-SPECIFIC RECIPROCATING INFRARED HEATING EQUIPMENT IS DESIGNED SPECIFICALLY TO ELEVATE THE TEMPERATURE OF THE PREFORMED THERMOPLASTIC MATERIAL AND ASPHALT PAVEMENT WITHOUT ADVERSELY AFFECTING IT. THE PRIMARY HEATING UNIT MUST EMPLOY A BANK OF PROPANE-FIRED INFRARED HEATERS, MOUNTED ON A TRACK DEVICE THAT ALLOWS THE HEATER BANK TO RECIPROCATE BACK AND FORTH OVER A DESIGNATED AREA, THEREBY ALLOWING THE OPERATOR TO MONITOR THE TEMPERATURE OF THE PREFORMED THERMOPLASTIC AT ALL TIMES DURING THE PAVEMENT HEATING PROCESS. A SMALLER, MOBILE INFRARED HEATER IS DESIGNED SPECIFICALLY TO HEAT AREAS SUCH AS BORDERS AND NARROW AREAS THAT ARE INACCESSIBLE TO THE PRIMARY HEATERS. THIS SECONDARY HEATER ALSO ALLOWS THE OPERATOR TO MONITOR THE TEMPERATURE OF THE PREFORMED THERMOPLASTIC AT ALL TIMES DURING THE HEATING PROCESS.

E. MATERIALS SEALER: A TWO-PART EPOXY SEALER SPECIFIED AND DISTRIBUTED BY THE SYSTEM MANUFACTURER MUST BE APPLIED TO THE SUBSTRATE PRIOR TO MATERIAL APPLICATION TO ENSURE PROPER ADHESION, AND TO PROVIDE REINFORCEMENT FOR LARGER AREAS OF MATERIAL.

F. MATERIALS AGGREGATE: SUPPLEMENTAL ANTI-SKID/ANTI-SLIP ELEMENTS TO BE APPLIED TO THE SURFACE OF THE MOLTEN PREFORMED THERMOPLASTIC AS NEEDED, IF THE FACTORY APPLIED ANTI-SKID/ANTI-SLIP ELEMENTS EMBED TOO DEEPLY INTO THE SURFACE OF THE MOLTEN PREFORMED THERMOPLASTIC MATERIAL DURING THE HEATING PROCESS. (EMBEDDED AGGREGATE IS EXPOSED UPON WEAR FOR EXTENDED SKID RESISTANCE.) THE AGGREGATE IS DISTRIBUTED BY THE SYSTEM MANUFACTURER.

G. PATTERNS & COLORS

1. PATTERNS AND COLORS ARE DESCRIBED BELOW:  
A. DECORATIVE IMPRESSED ASPHALT - TYPE A  
**DIAGONAL HERRINGBONE PATTERN (12-101)  
COLONIAL BRICK COLOR  
LIMITS SHOWN ON SHEET 23**

2. CONTRACTOR SHALL VERIFY ALL COLORS AND PATTERNS WITH OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT.

H. SHELF LIFE AND STORAGE THE SHELF LIFE OF DECORATIVE IMPRESSED ASPHALT MATERIALS IS TWO YEARS PROVIDED IT IS PROTECTED FROM THE WEATHER, SPECIFICALLY UV DEGRADATION AND RAIN. THE MATERIALS ARE TO BE STORED IN THEIR ORIGINAL PACKAGING AND KEPT DRY UNDER COVER AND OR AS PER MANUFACTURER'S SPECIFICATIONS

PART 3- EXECUTION

3.1 EXAMINATION  
A. VERIFY THAT PAVEMENT IS DRY AND IN SUITABLE CONDITION TO BEGIN THE IMPRESSING PROCESS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

B. PROCEED WITH ASPHALT IMPRESSING ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

C. VERIFY THAT UTILITIES, TRAFFIC LOOP DETECTORS, AND OTHER ITEMS REQUIRING A CUT AND INSTALLATION BENEATH THE ASPHALT SURFACE HAVE BEEN COMPLETED AND THAT ASPHALT SURFACE HAS BEEN REPAIRED FLUSH WITH ADJACENT ASPHALT PRIOR TO BEGINNING INSTALLATION OF IMPRESSED ASPHALT.

3.2 IMPRESSING ASPHALT  
A. GENERAL: IMPRESS ASPHALT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, USING MANUFACTURER'S RECOMMENDED EQUIPMENT.

B. PRE-CONDITIONS: DECORATIVE IMPRESSED ASPHALT SHALL BE INSTALLED OVER NEW PAVEMENT. THE PAVEMENT MUST BE FIRM, STABLE AND IN EXCELLENT CONDITION: IT MUST BE FREE FROM DEFECTS SUCH AS CRACKS, SETTLEMENT, VISIBLE SEAMS, RUTS, BIRD BATHS AND SPALLING.

1. CRACKING, SETTLEMENT AND OTHER DEFICIENCIES OF THE SUBSTRATE WILL LIKELY REFLECT THROUGH THE DECORATIVE PREFORMED THERMOPLASTIC. GOOD AND PROPER CONSTRUCTION PROCEDURES FOR THE INSTALLATION OF THE SUBSTRATE MUST BE FOLLOWED IN ORDER TO MITIGATE CRACKING OF DECORATIVE PREFORMED THERMOPLASTIC.

2. SURFACES WITH A HIGH DEGREE OF POROSITY SHOULD BE AVOIDED DUE TO THE PROBLEMS ASSOCIATED WITH ENTRAPPED WATER.

3. SURFACES THAT MAY BE SUBJECT TO UNCONTROLLED MOVEMENT IN EITHER A HORIZONTAL OR VERTICAL DIRECTION SHALL BE AVOIDED AS THERE MAY BE A RISK OF REFLECTIVE CRACKING THROUGH TO THE DECORATIVE PREFORMED THERMOPLASTIC. NOTIFY THE ENGINEER IF THESE CONDITIONS ARE PRESENT BEFORE INSTALLING DECORATIVE PREFORMED THERMOPLASTIC.

D. PREPARING OF THE SUBSTRATE: ALL PAVEMENT SUBSTRATES MUST BE OF HIGH QUALITY AND STABLE FOR THE INSTALLATION OF DECORATIVE IMPRESSED ASPHALT.

THIS SECTION IS TO BE USED AS A GUIDE TO ENSURE A HIGH-QUALITY PAVEMENT SUBSTRATE IS PROVIDED AND READY FOR THE INSTALLATION OF THE DECORATIVE SYSTEM. IT DOES NOT SUPERSEDE OTHER SPECIFICATIONS PERTAINING TO THIS WORK, NOR DOES IT REPLACE RECOMMENDATIONS MADE BY THE ENGINEER OF RECORD FOR THIS WORK.

1. THE BASE AND SUB-GRADE OVER WHICH NEW PAVEMENT IS INSTALLED MUST BE FIRM AND STABLE.

2. THE PAVEMENT MIX MUST BE DESIGNED FOR THE INTENDED USE.

3. THE PAVEMENT MUST BE INSTALLED IN ACCORDANCE WITH PROPER PLACEMENT PRACTICES AND THESE SPECIFICATIONS.

4. THE ASPHALT PAVEMENT MUST BE PERMITTED TO CURE PROPERLY BEFORE INSTALLING DECORATIVE IMPRESSED ASPHALT.

E. SURFACE PREPARATION: THE PAVEMENT SURFACE SHALL BE DRY AND CLEAN: FREE OF ALL DIRT, DEBRIS, SALTS, CONCRETE ADMIXTURES AND ANY CHEMICAL RESIDUES.

1. BITUMINOUS RESIDUE MUST BE REMOVED FROM NEW ASPHALT PAVEMENT SURFACE PRIOR TO INSTALLATION OF DECORATIVE IMPRESSED ASPHALT.

2. REMOVAL OF CONTAMINANTS MAY BE DONE BY BROOMING, COMPRESSED AIR, PRESSURE WASHING (MOISTURE MUST BE REMOVED AND THE SURFACE DRY AS NOTED ABOVE) OR, IF NECESSARY, LIGHT-GRIT BLASTING. WIRE BRUSH MAY BE USED TO REMOVE LOOSE OR POWDERY MATERIALS.

F. INSTALLATION OF DECORATIVE IMPRESSED ASPHALT: DECORATIVE IMPRESSED ASPHALT SYSTEM IS TO BE INSTALLED ONLY BY AN ACCREDITED INSTALLER.

1. THE SYSTEM MUST BE ABLE TO BE APPLIED TO ASPHALT SURFACES WITHOUT PRE-HEATING THE APPLICATION SURFACE TO A SPECIFIC TEMPERATURE.

2. THE SYSTEM IS APPLIED TO ASPHALT PAVEMENT PRIMARILY USING RECIPROCATING INFRARED HEATING EQUIPMENT. AN APPROVED HAND-HELD PROPANE HEAT TORCH DISTRIBUTED BY THE SYSTEM MANUFACTURER SHALL BE USED TO HEAT ISOLATED AREAS OF THE PREFORMED THERMOPLASTIC.

3. A SPECIALIZED SEALER DISPENSING GUN, HANDHELD FINISHING TOOL, AGGREGATE AND VIBRATORY PLATE COMPACTORS ARE USED AS PART OF THE INSTALLATION PROCESS

4. THE AGGREGATE REINFORCED PREFORMED THERMOPLASTIC IS TYPICALLY SUPPLIED IN PANELS MEASURING 2 FT. X 2 FT. [±1/2" IN.] (.61M X .61M [±3MM]).

5. THE SYSTEM IS AVAILABLE IN A VARIETY OF STANDARD COLORS AND PATTERNS. COLOR CAN BE USED TO CREATE PATTERNS WITHIN THE CROSSWALK AREA TO REFLECT THE TYPICAL WHITE 'CONTINENTAL' CROSSWALK BARS FOR ADDITIONAL VISIBILITY AND AWARENESS.

6. THE MATERIAL MUST BE ABLE TO BE APPLIED AT AMBIENT AND ROAD TEMPERATURES WITH A MINIMUM TEMPERATURE OF 45°F (7°C) AND RISING.

7. A TWO-PART EPOXY SEALER SPECIFIED BY THE MANUFACTURER MUST BE APPLIED TO THE SUBSTRATE PRIOR TO PREFORMED THERMOPLASTIC APPLICATION. IMMEDIATELY FOLLOWING SEALER APPLICATION, THE PANELS OF AGGREGATE REINFORCED PREFORMED THERMOPLASTIC ARE POSITIONED PROPERLY ON THE ASPHALT SUBSTRATE WITH THE AGGREGATE SIDE FACING UP. THE PREFORMED THERMOPLASTIC IS THEN HEATED TO THE REQUIRED MELTING TEMPERATURE. ADDITIONAL AGGREGATE MAY BE APPLIED TO THE PREFORMED THERMOPLASTIC SURFACE AS NEEDED FOLLOWING THE MELTING PROCESS.

8. AS THE MATERIAL COOLS TO 160 DEGREES FAHRENHEIT, IT IS IMPRESSED WITH A STAMPING GRID MADE FROM 3/8 IN. (9.5 MM) FLEXIBLE WIRE ROPE IN THE REQUIRED DESIGN USING A VIBRATORY PLATE COMPACTOR.

9. THE PREFORMED THERMOPLASTIC MATERIAL IS THEN ALLOWED TO COOL THOROUGHLY BEFORE BEING OPENED TO VEHICLE OR PEDESTRIAN TRAFFIC. (CONSULT THE MANUFACTURER'S PUBLISHED APPLICATION PROCEDURES FOR COMPLETE INFORMATION.) THE TIMING OF OPENING TRAFFIC WILL BE SUBJECT TO EXTERIOR TEMPERATURE CONDITIONS. MORE TIME MAY BE REQUIRED IN HOT WEATHER. THE ACCREDITED INSTALLER CAN ADVISE WHEN THE WORK IS READY FOR TRAFFIC.

10. INSTALL PREMARK® WHITE 125MIL PREFORMED THERMOPLASTIC MATERIAL WITH GLASS BEADS AS THE TRANSVERSE LINES ON THE OUTSIDE AREAS OF THE INSTALLED TRAFFICPATTERNSXD® MARKING SYSTEM AS REQUIRED TO MEET MUTCD REQUIREMENTS.

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 08/08/23

PROJECT ID

125940

SHEET

6

TOTAL

47



ITEM 614, MAINTAINING TRAFFIC (AT ALL TIMES)

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT. TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES.

SEQUENCE OF CONSTRUCTION

PHASE 1A  
USING ODOT SCD MT-95.61 (ADJUSTED FOR SINGLE LANE, 25-MPH SHIFT), MAINTAIN TWO-WAY TRAFFIC AND SHIFT EB AND WB TRAFFIC TO THE NORTH SIDE OF FRANKLIN STREET. MAINTAIN A 1' MINIMUM SHOULDER BETWEEN EXISTING CURBS AND PROPOSED DRUMS AND 10' LANES IN BOTH DIRECTIONS.

CONSTRUCT CURB BUMP OUT ON SOUTH SIDE OF FRANKLIN STREET, INCLUDING SIDEWALK, CURB RAMP AND ENHANCED CROSSWALK, UP TO WITHIN 1' OF PROPOSED DRUMS.

AFTER BUMP OUT HAS BEEN CONSTRUCTED, CLOSE CROSSWALK AND CURB RAMP UNTIL PHASE 1B HAS BEEN COMPLETED.

PHASE 1B  
USING ODOT SCD MT-95.61 (ADJUSTED FOR SINGLE LANE, 25-MPH SHIFT), MAINTAIN TWO-WAY TRAFFIC AND SHIFT EB AND WB TRAFFIC TO THE SOUTH SIDE OF FRANKLIN STREET. MAINTAIN A 1' MINIMUM SHOULDER BETWEEN PROPOSED CURBS AND PROPOSED DRUMS AND 10' LANES IN BOTH DIRECTIONS.

CONSTRUCT CURB BUMP OUT ON NORTH SIDE OF FRANKLIN STREET, INCLUDING SIDEWALK, CURB RAMP AND REMAINING ENHANCED CROSSWALK.

OPEN CROSSWALK AND CURB RAMP PREVIOUSLY CLOSED IN PHASE 1A.

USING ODOT SCD MT-95.61, MILL 1½" SURFACE COURSE OFF FOR THE ENTIRETY OF THE RESURFACING AREA, AS SHOWN ON THE PLANS. PLACE WORK ZONE PAVEMENT MARKINGS FOR LONG LINE MARKINGS (INCLUDING STOP BARS) FOR USE WHILE PAVEMENT

PHASE 2A  
USING ODOT SCD MT-97.11, MILL 1½" SURFACE COURSE FOR THE ENTIRETY OF THE RESURFACING AREA ON FRANKLIN STREET, AS SHOWN ON THE PLANS. PLACE WORK ZONE PAVEMENT MARKINGS FOR LONG LINE MARKINGS (INCLUDING STOP BARS) FOR USE WHILE PAVEMENT IS MILLED OFF.

PLACE 1½" SURFACE COURSE OVER RESURFACING AREA ON FRANKLIN STREET. REPLACE LONG LINE PAVEMENT MARKINGS WITH WORK ZONE PAVEMENT MARKINGS, PRIOR TO PERMANENT PAVEMENT MARKING PLACEMENT.

PHASE 2B  
USING ODOT SCD MT-97.11, MILL 1½" SURFACE COURSE FOR THE ENTIRETY OF THE RESURFACING AREA ON MAIN STREET, AS SHOWN ON THE PLANS. PLACE WORK ZONE PAVEMENT MARKINGS FOR LONG LINE MARKINGS (INCLUDING STOP BARS) FOR USE WHILE PAVEMENT IS MILLED OFF.

PLACE 1½" SURFACE COURSE OVER RESURFACING AREA ON FRANKLIN STREET. REPLACE LONG LINE PAVEMENT MARKINGS WITH WORK ZONE PAVEMENT MARKINGS, PRIOR TO PERMANENT PAVEMENT MARKING PLACEMENT.

PHASE 3  
PLACE REMAINING PERMANENT PAVEMENT MARKINGS AND PROPOSED SIGNAGE ALONG BOTH FRANKLIN STREET AND MAIN STREET. MAINTAIN TRAFFIC USING ODOT SCD MT-97.11 AND MT-99.20.

SEQUENCE OF CONSTRUCTION CONT.

WALNUT AND MAIN STREET  
IN THE EVENT THE WALNUT AND MAIN STREET BUMP-OUT ALTERNATE IS AWARDED, CONSTRUCT BOTH THE EAST AND WEST SIDE BUMP-OUTS IN A SIMILAR MANNER TO THE BUMP-OUT LOCATIONS ALONG FRANKLIN STREET. THESE BUMP-OUTS SHOULD BE TREATED AS PHASES 1C AND 1D, IF AWARDED.

MAINTENANCE OF TRAFFIC COORDINATION

THE MAINTENANCE OF TRAFFIC SCHEME DEVELOPED FOR THIS PROJECT ASSUMES THE ADJACENT BRIDGE PROJECT, ODOT PID 110612, IS COMPLETED.

IF ODOT PID 110612 IS IN CONSTRUCTION PHASE 1 OR 2, AT THE TIME THIS PROJECT BEGINS, COORDINATION WITH ODOT DISTRICT 8 AND THE CONTRACTOR FOR PID 110612 IS NEEDED TO DETERMINE AN UPDATED MAINTENANCE OF TRAFFIC SCHEME.

IF ODOT PID 110612 IS IN CONSTRUCTION PHASE 1 OR 2 AND THE ALTERNATE BID FOR THIS PROJECT IS AWARDED, PHASE 1C AND 1D ARE TO BE COMPLETED PRIOR TO PHASE 1A AND 1B.

IF ODOT PID 110612 IS IN CONSTRUCTION PHASE 3, PHASE 1B AND PHASE 1A OF THIS PROJECT SHALL BE FLIPPED, TO BETTER COORDINATE WITH ODOT PID 110612.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE  
ITEM DURATION OF NOTICE DUE TO CITY CLOSURE

LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE

START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION
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ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

WORK ZONE PAVEMENT MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11. THE FOLLOWING PAVEMENT MARKING ITEMS ARE TO BE PLACED ON MILLED ASPHALT PAVEMENT, IMMEDIATELY FOLLOWING MILLING OPERATIONS. ADDITIONALLY, THESE PAVEMENT MARKINGS ARE TO BE AGAIN PLACED ON THE FINAL SURFACE COURSE, PRIOR TO FINAL, THERMOPLASTIC PAVEMENT MARKINGS BEING PLACED.

ITEM 614 WORK ZONE CENTERLINE, CLASS 1	2.46 MILE
ITEM 614 WORK ZONE EDGE LINE, CLASS 1, 6"	4.26 MILE
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1, 8"	778 FT
ITEM 614 WORK ZONE STOP LINE, CLASS 1,	214 FT

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

7

TOTAL


47

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
														201	11000	LS		ROADWAY	
														202	23000	228	SY	CLEARING AND GRUBBING	
														202	30000	1,309	SF	PAVEMENT REMOVED	
														202	32000	204	FT	WALK REMOVED	
														203	10000	30	CY	CURB REMOVED	
														203	20000	15	CY	EXCAVATION	
														204	10000	63	SY	EMBANKMENT	
														608	10000	2,018	SF	SUBGRADE COMPACTION	
														608	52000	461	SF	4" CONCRETE WALK	5
														608	53020	61	SF	CURB RAMP	
														608	53021	127	SF	DETECTABLE WARNING	5
														608	98000	967	SF	DETECTABLE WARNING, AS PER PLAN	5
																		WALKWAY, MISC.: SIDEWALK PAVERS	
														832	15000	LS		EROSION CONTROL	
														832	30000	10,000	EACH	STORM WATER POLLUTION PREVENTION PLAN	
																		EROSION CONTROL	
														SPECIAL	61199830	146	FT	DRAINAGE	
																		TRENCH DRAIN	5
														253	01001	400	SY	PAVEMENT	
														254	01000	24,063	SY	PAVEMENT REPAIR, AS PER PLAN	5
														301	56000	11	CY	PAVEMENT PLANING, ASPHALT CONCRETE T = 1.5"	
														304	20000	14	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
														407	20000	2,054	GAL	AGGREGATE BASE	
														441	70000	1,006	CY	NON-TRACKING TACK COAT	
														441	70300	5	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
														441	91000	29	SY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
																		ASPHALT CONCRETE, MISC.:TRAFFICPATTERNSXD STAMPED CROSSWALK DIAGONAL	6
																		HERRINGBONE PATTERN (12-101), COLONIAL BRICK	
														609	26000	209	FT		
																		CURB, TYPE 6	
														630	03100	21	FT	TRAFFIC CONTROL	
														630	08600	3	EACH	GROUND MOUNTED SUPPORT, NO. 3 POST	
														630	80100	58	SF	SIGN POST REFLECTOR	
														630	84900	2	EACH	SIGN, FLAT SHEET	
														630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
														644	00104	2.13	MILE	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
														644	00300	1.23	MILE	EDGE LINE, 6"	
														644	00400	389	FT	CENTER LINE	
														644	00500	128	FT	CHANNELIZING LINE, 8"	
														644	00620	924	FT	STOP LINE	
														644	00630	70	FT	CROSSWALK LINE, 12"	
														644	00700	426	FT	CROSSWALK LINE, 24"	
														644	00700	216	FT	TRANSVERSE/DIAGONAL LINE, WHITE	
														644	01200	1,014	FT	TRANSVERSE/DIAGONAL LINE, YELLOW	
														644	01300	10	EACH	PARKING LOT STALL MARKING	
														644	01400	1	EACH	LANE ARROW	
																		WORD ON PAVEMENT, 72"	
														625	32000	2	EACH	TRAFFIC SIGNALS	
														630	97700	2	EACH	GROUND ROD	
														632	26000	2	EACH	SIGNING, MISC.:SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	28
														632	64020	2	EACH	PEDESTRIAN PUSHBUTTON	
																		PEDESTAL FOUNDATION	
														SPECIAL	66199000	LS		LANDSCAPING	
																		LANDSCAPING (SEE SHEET 43 FOR ITEMIZED QUANTITIES)	5
														614	21000	2.46	MILE	MAINTENANCE OF TRAFFIC	
														614	22010	4.26	MILE	WORK ZONE CENTER LINE, CLASS I	
														614	23000	778	FT	WORK ZONE EDGE LINE, CLASS I, 6"	
														614	26000	214	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
																		WORK ZONE STOP LINE, CLASS I	
														614	11000	LS		INCIDENTALS	
														623	10000	LS		MAINTAINING TRAFFIC	
														624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
																		MOBILIZATION	

Item A, Section 13, Item

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 08/08/23

PROJECT ID

125940

SHEET

8

TOTAL

47


43

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
														201	11000	LS		ROADWAY CLEARING AND GRUBBING	
														202	23000	213	SY	PAVEMENT REMOVED	
														202	30000	342	SF	WALK REMOVED	
														202	32000	91	FT	CURB REMOVED	
														202	35100	30	FT	PIPE REMOVED, 24" AND UNDER	
														202	58100	1	EACH	CATCH BASIN REMOVED	
														203	10000	15	CY	EXCAVATION	
														203	20000	5	CY	EMBANKMENT	
														204	10000	63	SY	SUBGRADE COMPACTION	
														608	10000	401	SF	4" CONCRETE WALK	
														608	52000	394	SF	CURB RAMP	
														608	98000	1,025	SF	WALKWAY, MISC.: SIDEWALK PAVERS	5
																		EROSION CONTROL	
														832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
														832	30000	10,000	EACH	EROSION CONTROL	
																		DRAINAGE	
														611	01100	20	FT	6" CONDUIT, TYPE C	
														611	04400	6	FT	12" CONDUIT, TYPE B	
														611	98150	1	EACH	CATCH BASIN, NO. 3	
																		PAVEMENT	
														301	56000	11	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
														304	20000	14	CY	AGGREGATE BASE	
														407	20000	9	GAL	NON-TRACKING TACK COAT	
														441	70000	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
														441	70300	5	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
														441	91000	23	SY	ASPHALT CONCRETE, MISC.:TRAFFICPATTERNSXD STAMPED CROSSWALK DIAGONAL HERRINGBONE PATTERN (12-101), COLONIAL BRICK	6
														609	26000	278	FT	CURB, TYPE 6	
																		WATER WORK	
														638	10800	3	EACH	VALVE BOX ADJUSTED TO GRADE	
														638	10900	1	EACH	SERVICE BOX ADJUSTED TO GRADE	
																		TRAFFIC CONTROL	
														630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
																		TRAFFIC SIGNALS	
														625	32000	2	EACH	GROUND ROD	
														630	97700	2	EACH	SIGNING, MISC.:SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	28
														632	26000	2	EACH	PEDESTRIAN PUSHBUTTON	
														632	64020	2	EACH	PEDESTAL FOUNDATION	
																		LANDSCAPING	
														SPECIAL	66199000	LS		LANDSCAPING (SEE SHEET 44 FOR ITEMIZED QUANTITIES)	5

Item A, Section 13, Item

GENERAL SUMMARY (ALTERNATE BID)

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 08/08/23

PROJECT ID

125940

SHEET

9

TOTAL

47



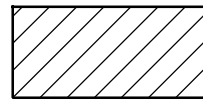
44

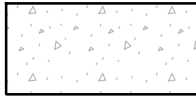



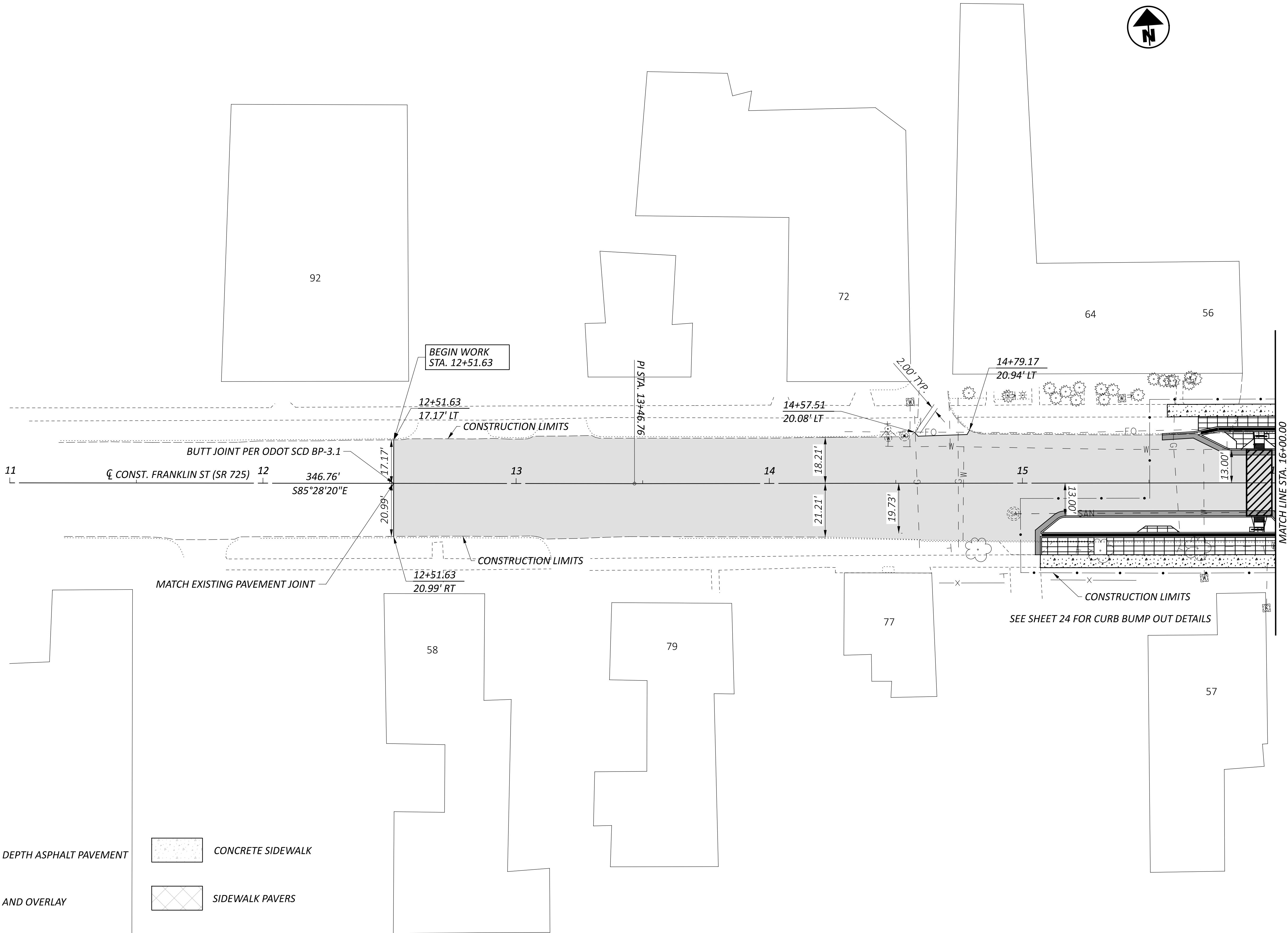
FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940\_GP101 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:01 PM USER: bgressel  
Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940\_GP101.dgn

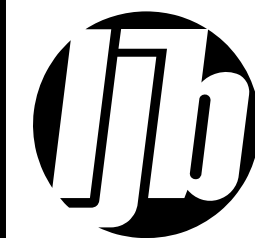
LEGEND

-  FULL DEPTH ASPHALT PAVEMENT
-  MILL AND OVERLAY
-  TRAFFIC PATTERNS XD  
STAMPED CROSSWALK

-  CONCRETE SIDEWALK
-  SIDEWALK PAVERS



DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

10

TOTAL

47

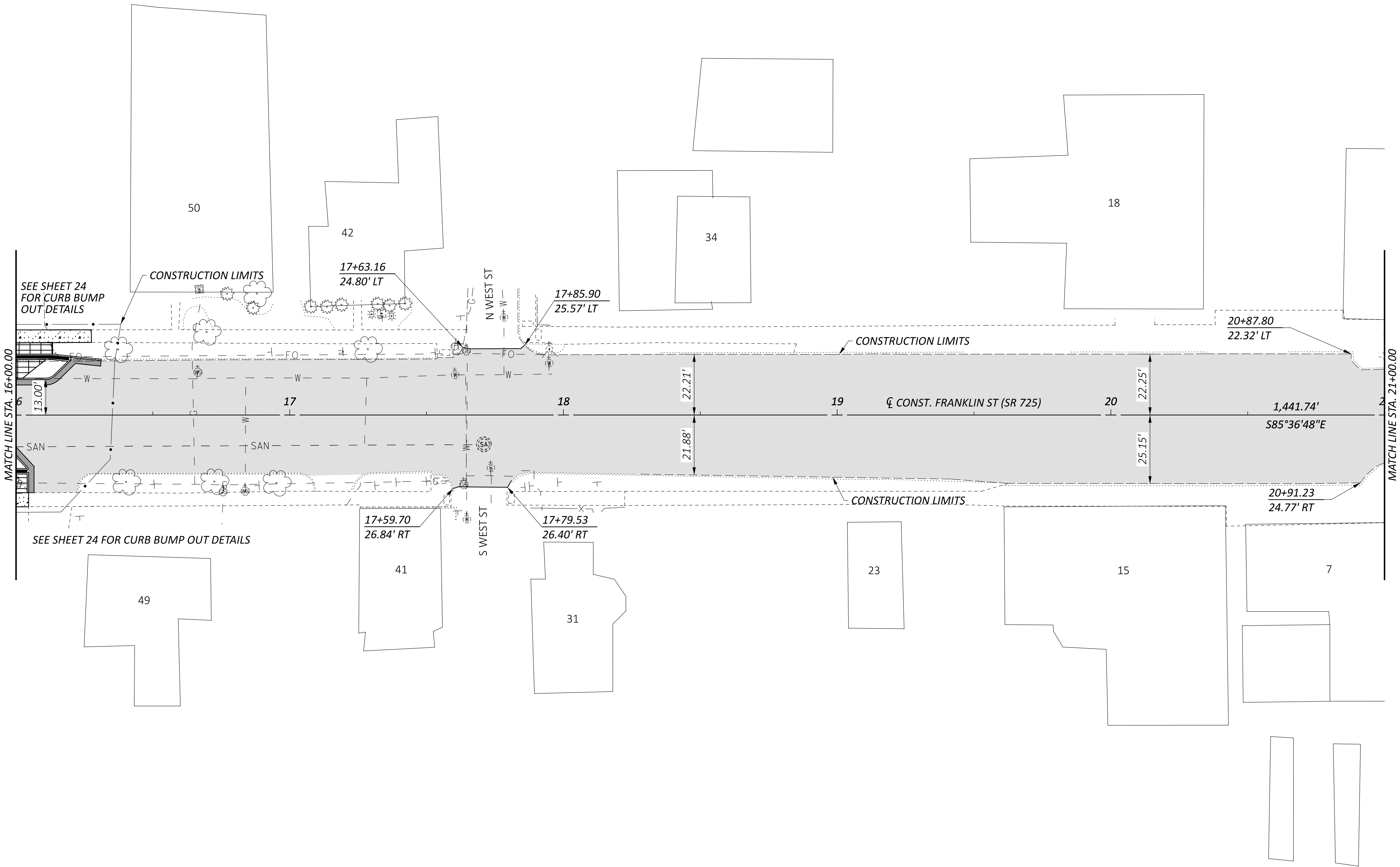
PLAN - FRANKLIN STREET  
STA. 12+51.63 TO STA. 16+00.00

HORIZONTAL  
SCALE IN FEET

0 10 20 40

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940\_GP102\_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:01 PM USER: bgressel  
Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940\_GP102.dgn



SEE PAVEMENT LEGEND SHEET 10

Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET  
0 10 20 40

PLAN - FRANKLIN STREET  
STA. 16+00.00 TO STA. 21+00.00

DESIGN AGENCY

DESIGNER  
AA

REVIEWER  
BMG 07/19/23

PROJECT ID  
125940

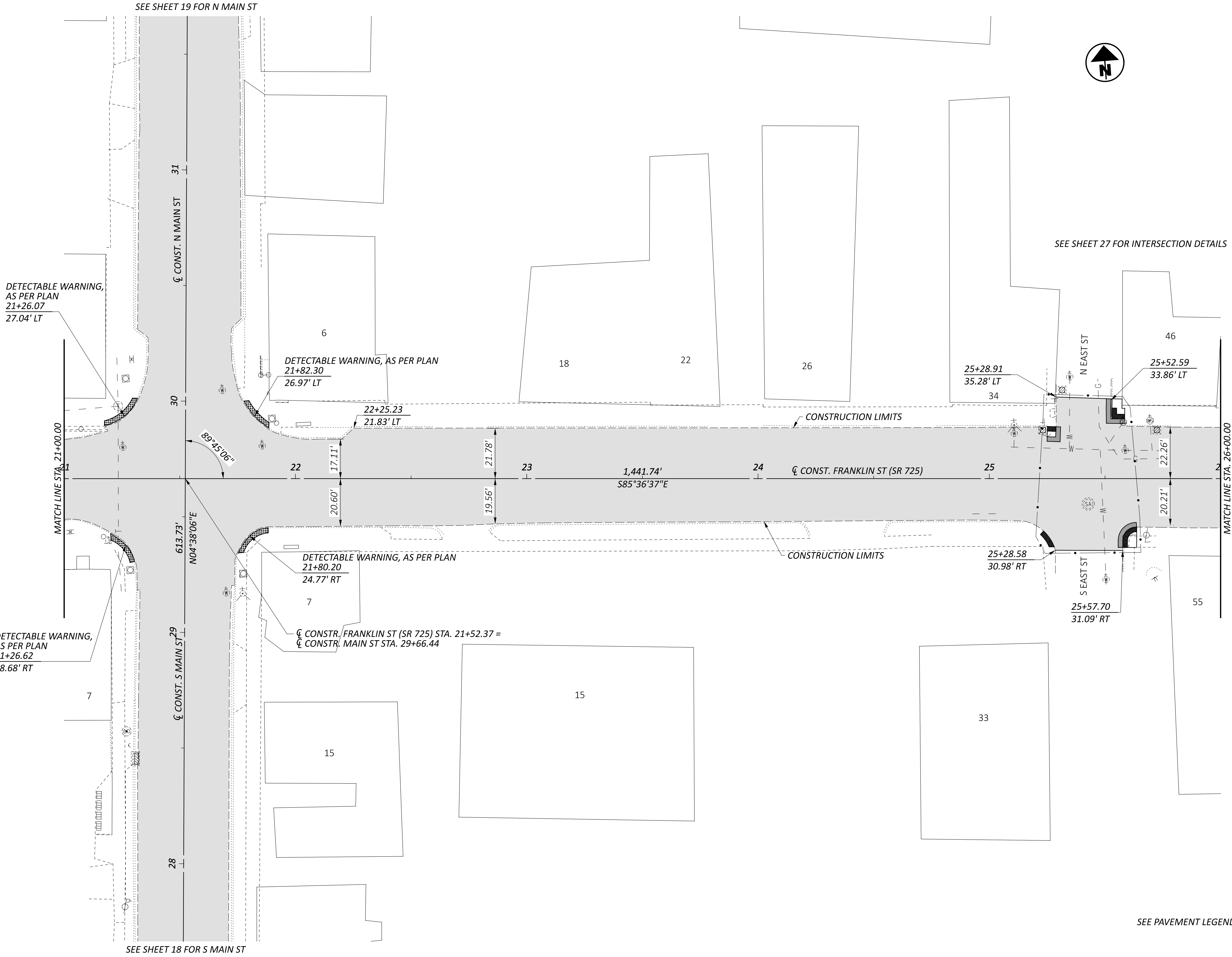
SHEET  
11

TOTAL  
47

46

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940\_GP103 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:02 PM USER: bgressel  
Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940\_GP103.dgn



Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET

0 10 20 40

PLAN - FRANKLIN STREET  
STA. 21+00.00 TO STA. 26+00.00

DESIGN AGENCY

DESIGNER  
AA

REVIEWER  
BMG 07/19/23

PROJECT ID  
125940

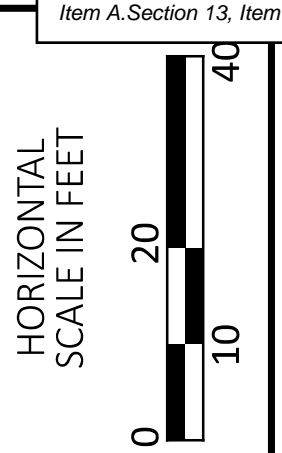
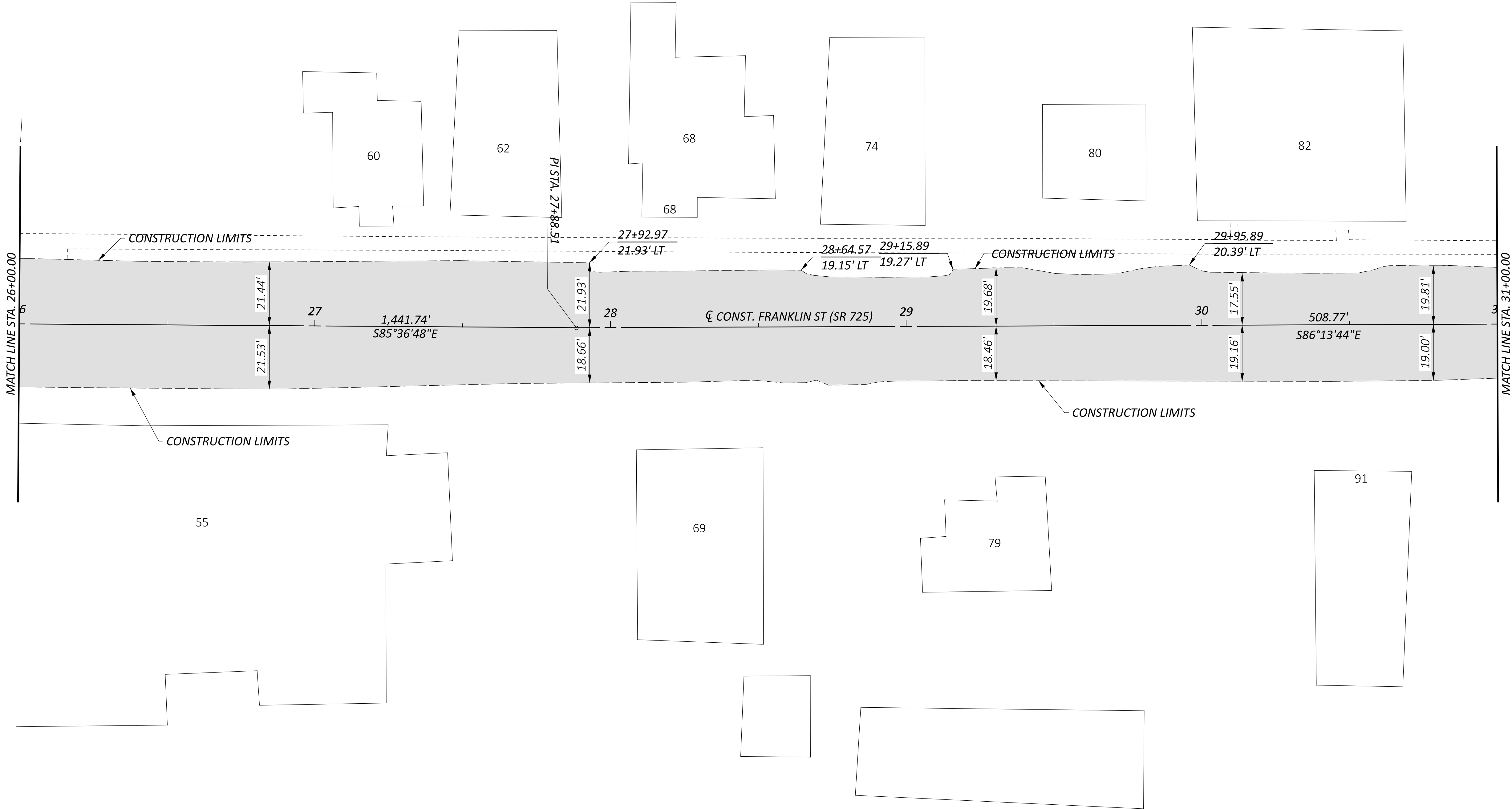
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TOTAL  
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FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940\_GP104 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:03 PM USER: bgressel  
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SEE PAVEMENT LEGEND SHEET 10



PLAN - FRANKLIN STREET  
STA. 26+00.00 TO STA. 31+00.00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

13

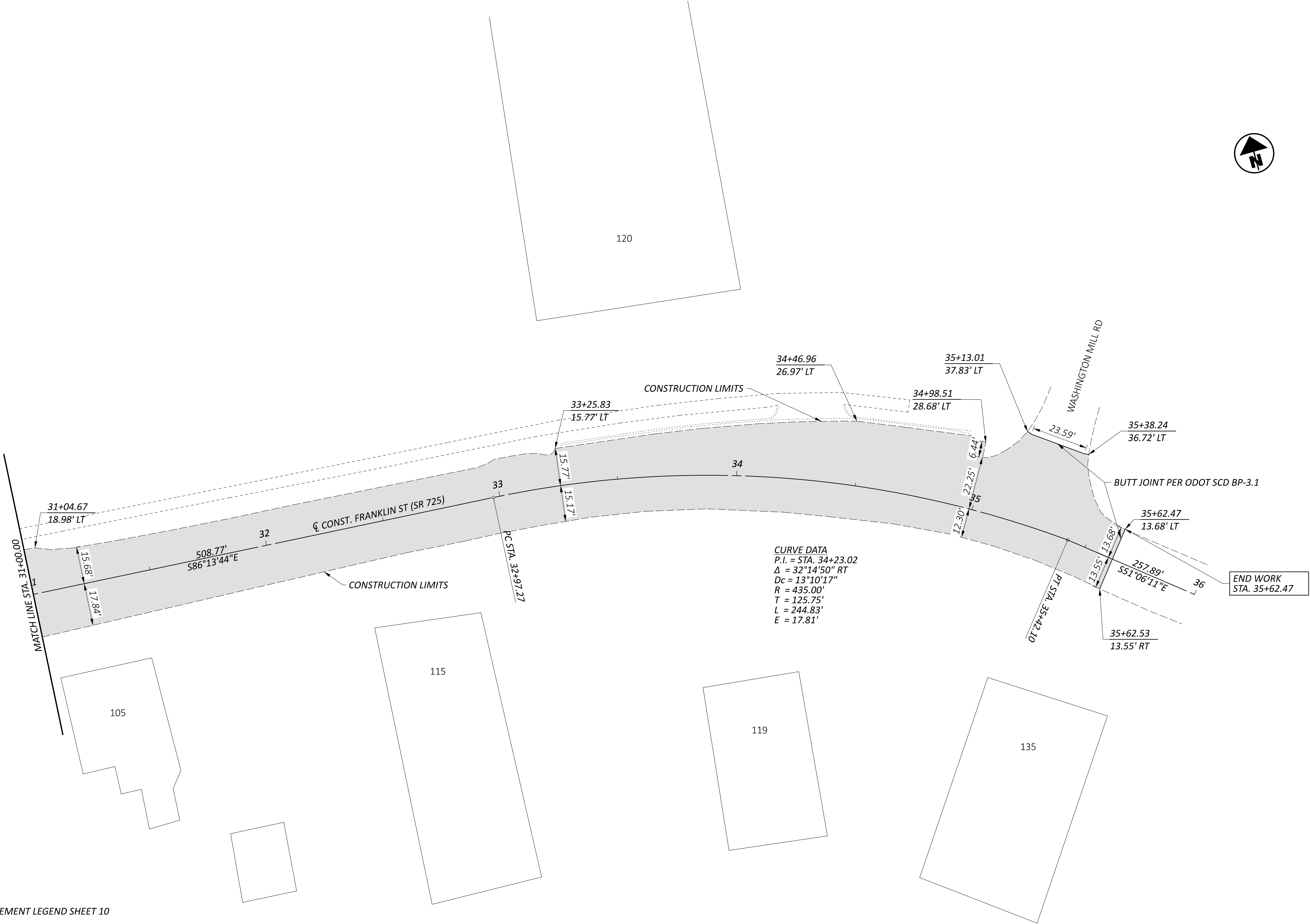
TOTAL

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FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940\_GP105 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:04 PM USER: bgressel  
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SEE PAVEMENT LEGEND SHEET 10



Item A, Section 13, Item

HORIZONTAL SCALE IN FEET  
0 10 20 40

PLAN - FRANKLIN STREET  
STA. 31+00.00 TO STA. 35+62.53

DESIGN AGENCY

DESIGNER  
AA

REVIEWER  
BMG 07/19/23

PROJECT ID  
125940

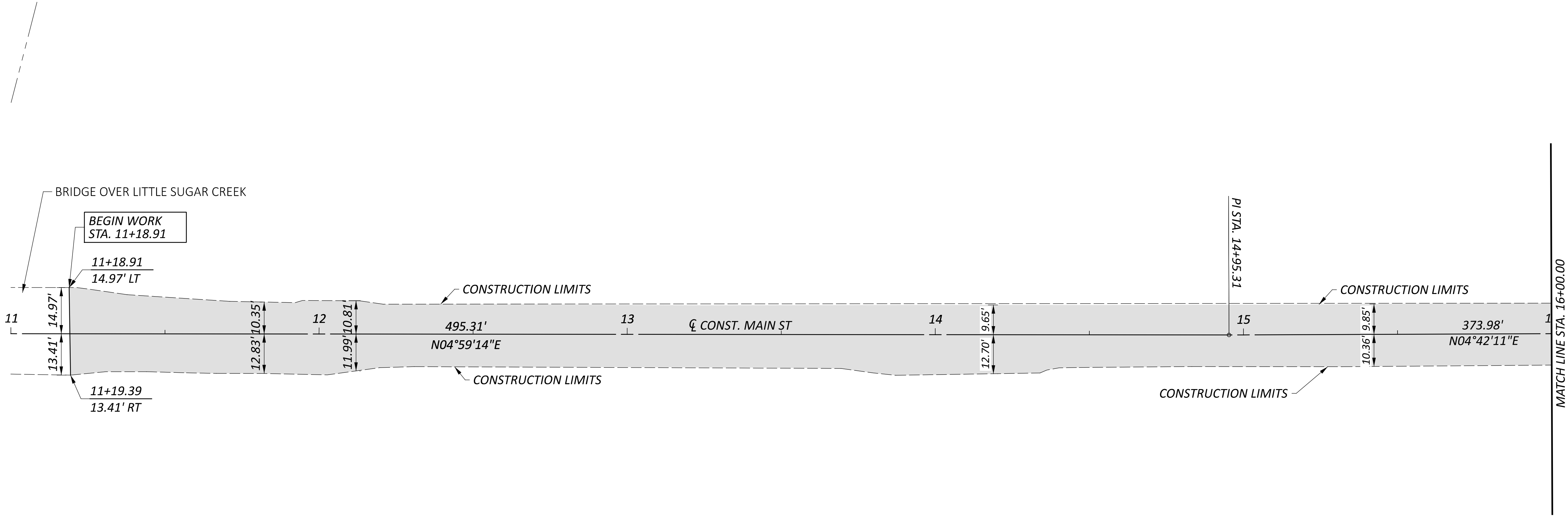
SHEET 14 TOTAL 49

49

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP\_Franklin - GP\_002 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:05 PM USER: bgresnel  
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SEE PAVEMENT LEGEND SHEET 10



DESIGN AGENCY

DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

15

TOTAL

47

HORIZONTAL  
SCALE IN FEET



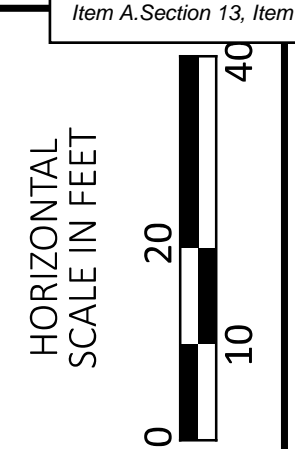
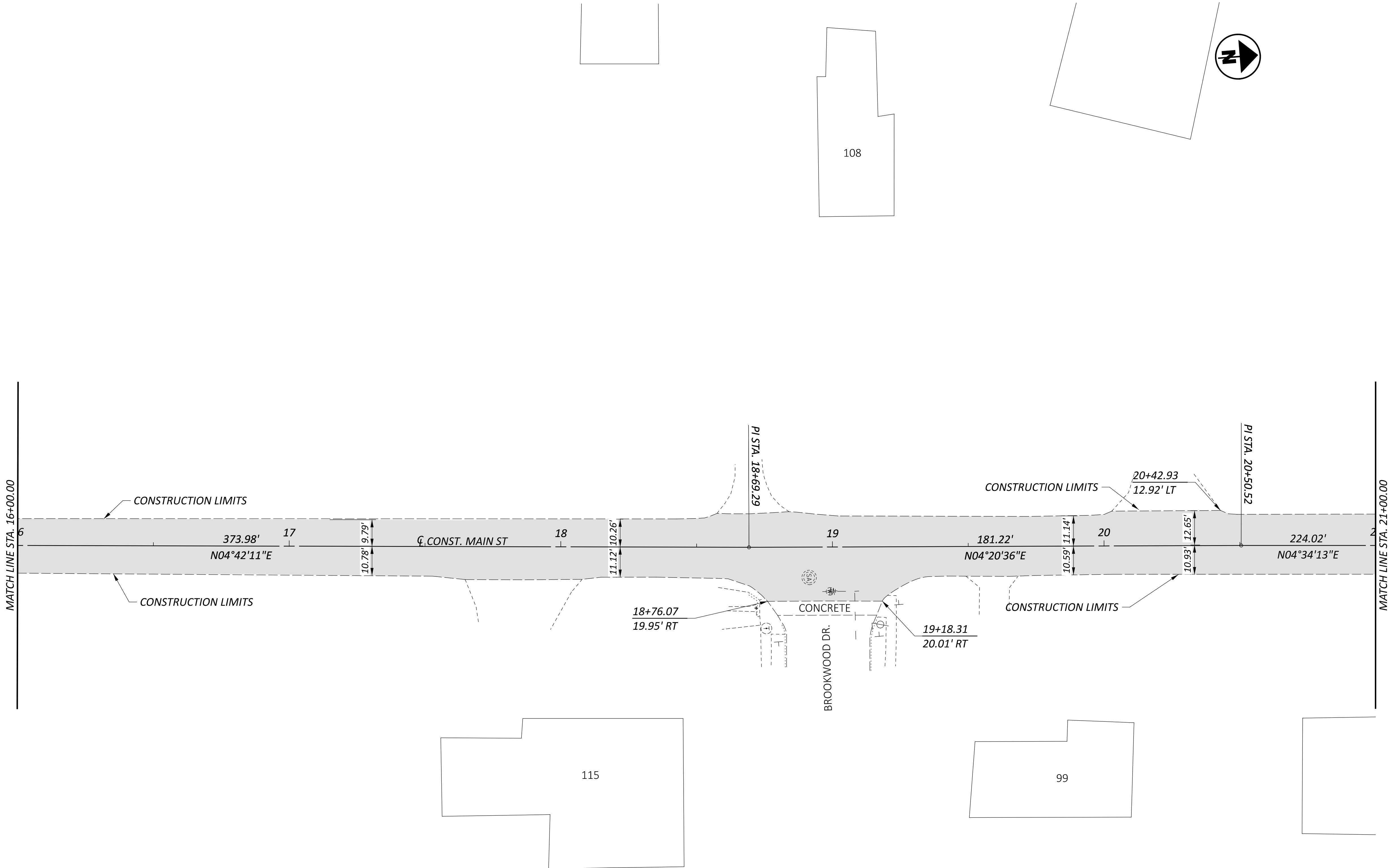
PLAN - MAIN STREET  
STA. 11+18.91 TO STA. 16+00.00

Item A.Section 13\_Item

FRANKLIN AND MAIN STREET IMPROVEMENTS

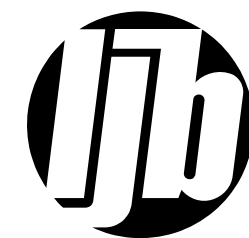
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SEE PAVEMENT LEGEND SHEET 10



PLAN - MAIN STREET  
STA. 16+00.00 TO STA. 21+00.00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

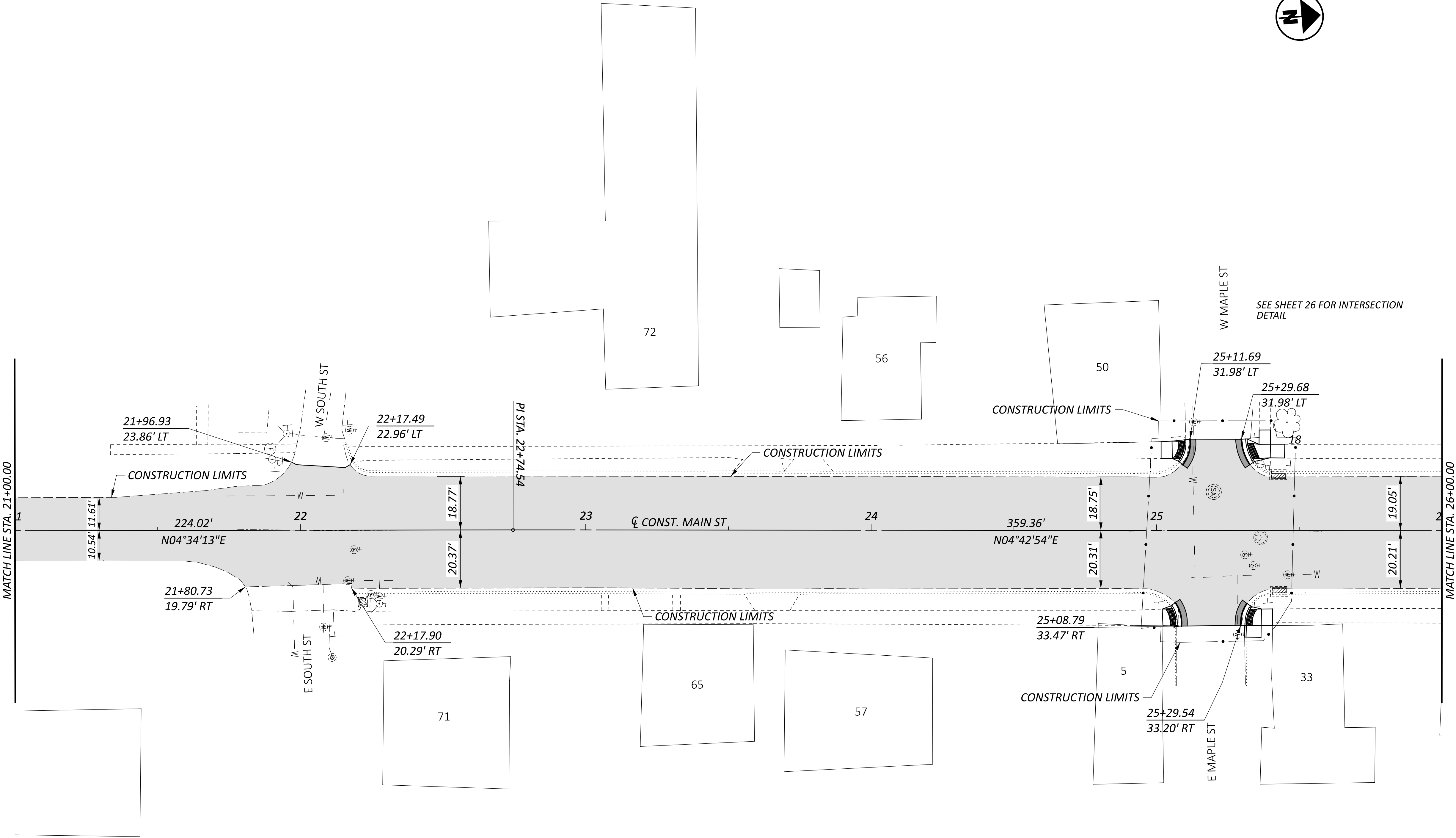
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TOTAL

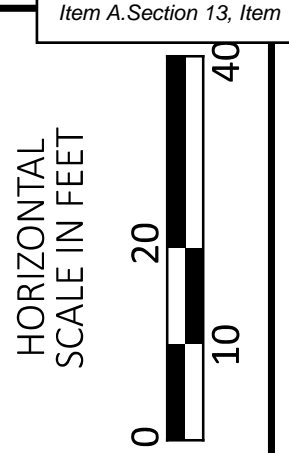
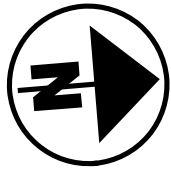
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FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE PAVEMENT LEGEND SHEET 10



PLAN - MAIN STREET  
STA. 21+00.00 TO STA. 26+00.00

DESIGN AGENCY



DESIGNER

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REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

17

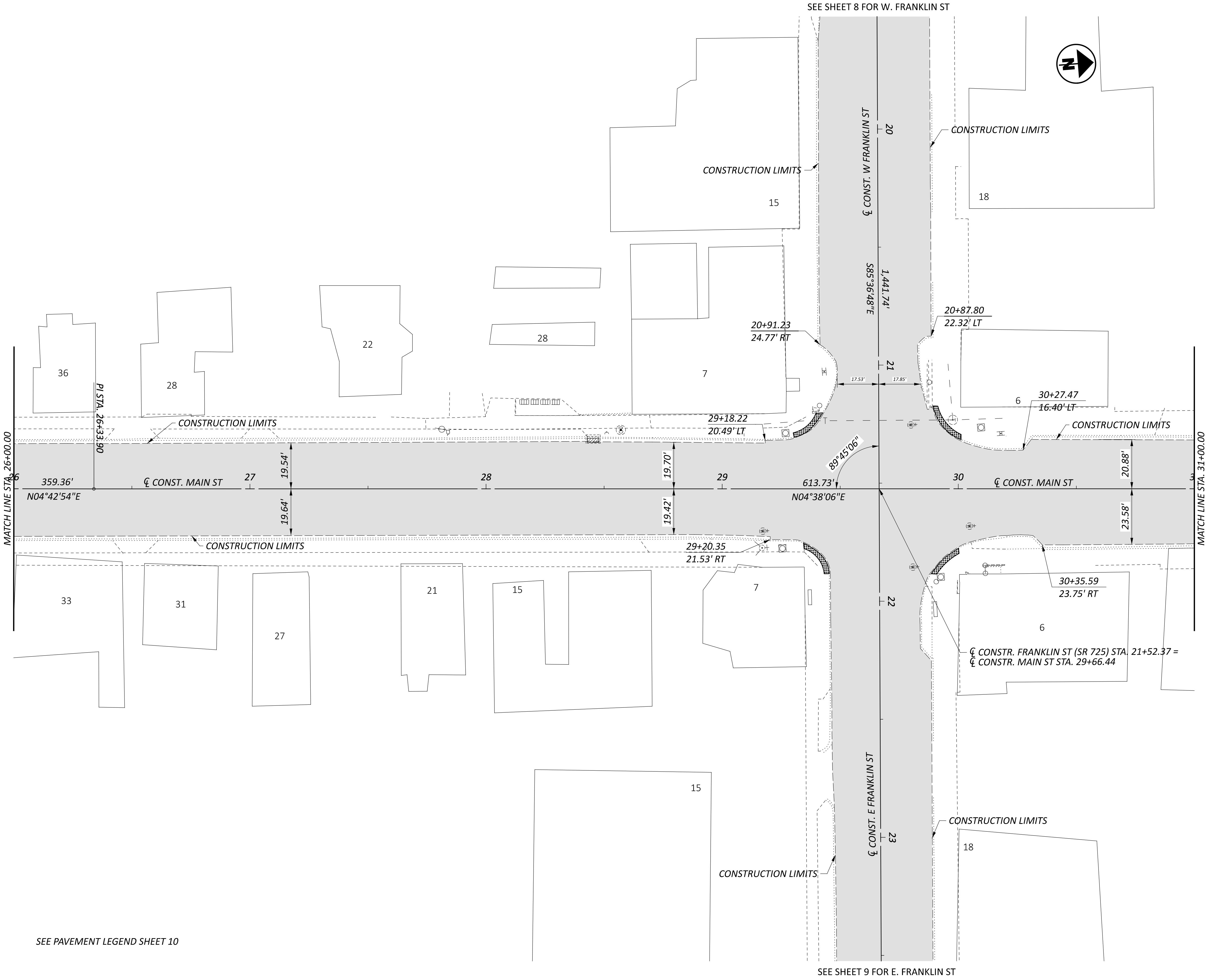
TOTAL

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FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP\_Franklin - GP\_005 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:07 PM USER: bgresell  
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SEE PAVEMENT LEGEND SHEET 10

SEE SHEET 8 FOR W. FRANKLIN ST

SEE SHEET 9 FOR E. FRANKLIN ST

Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET  
0 10 20 40

PLAN - MAIN STREET  
STA. 26+00.00 TO STA. 31+00.00

DESIGN AGENCY

DESIGNER  
AA

REVIEWER  
BMG 07/19/23

PROJECT ID  
125940

SHEET  
18

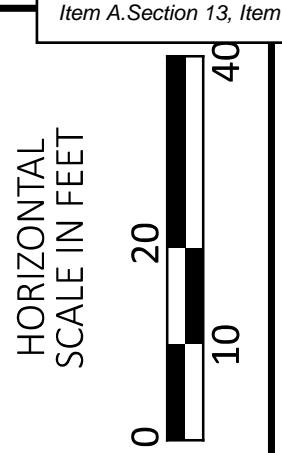
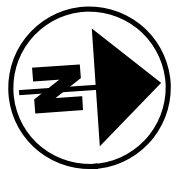
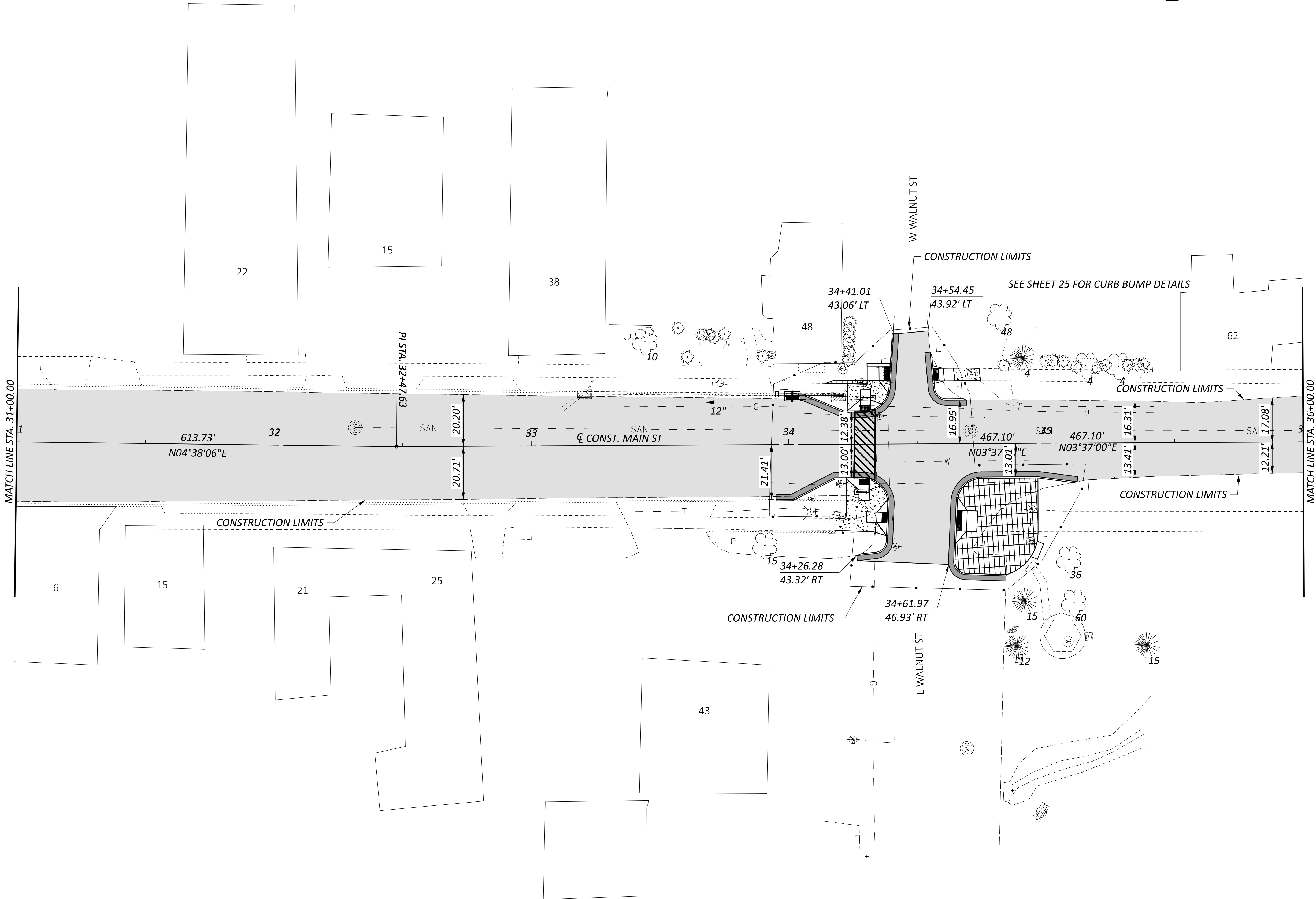
TOTAL  
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53

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP\_Franklin - GP\_006 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:08 PM USER: bgresnel  
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SEE PAVEMENT LEGEND SHEET 10



PLAN - MAIN STREET  
STA. 31+00.00 TO STA. 36+00.00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

19

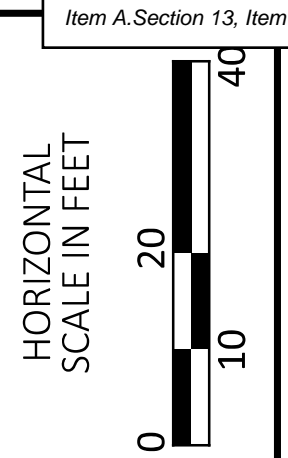
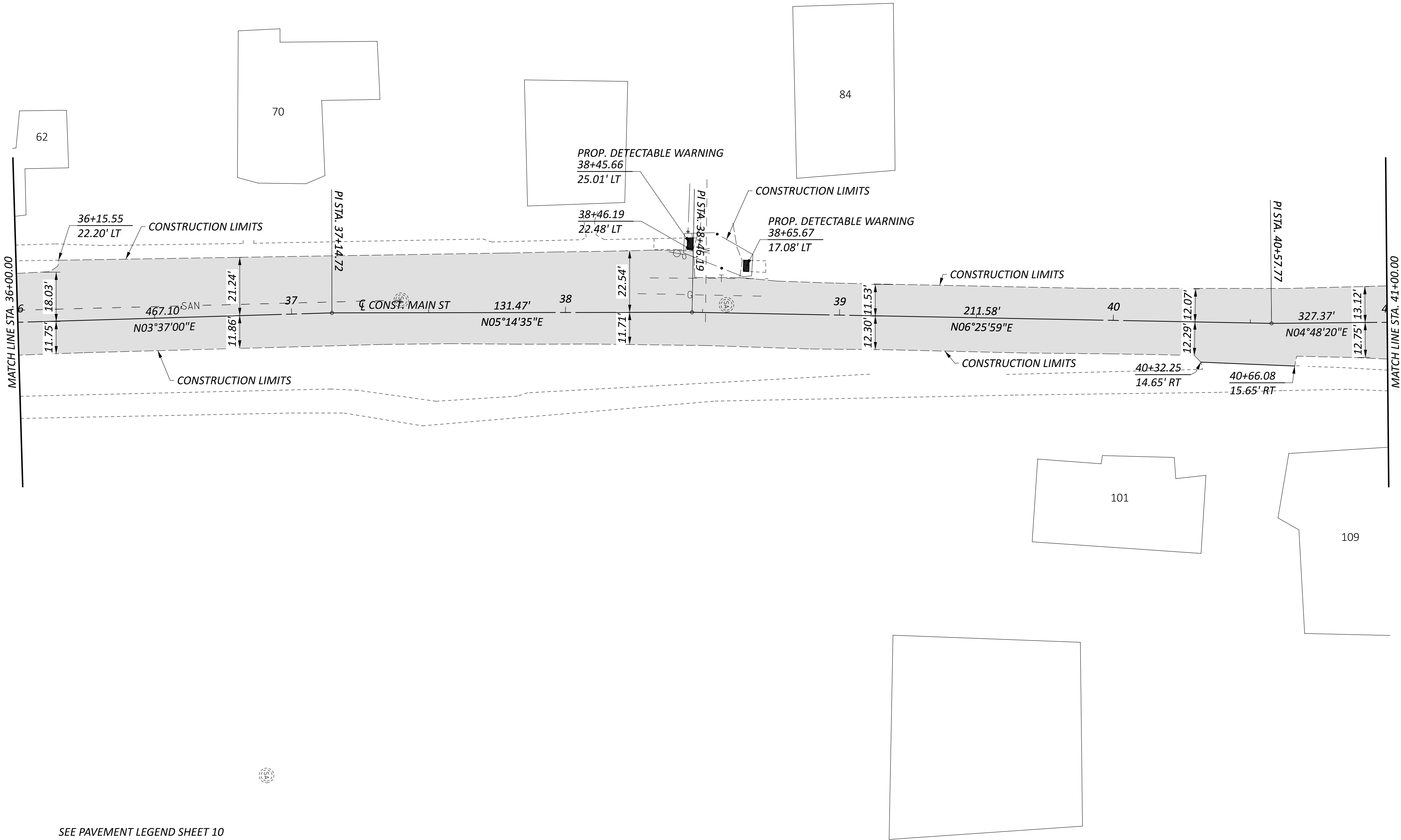
TOTAL

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FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP\_Franklin - GP\_007 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:09 PM USER: bgressel  
Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940\_GP206.dgn

SEE PAVEMENT LEGEND SHEET 10



PLAN - MAIN STREET  
STA. 36+00.00 TO STA. 41+00.00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

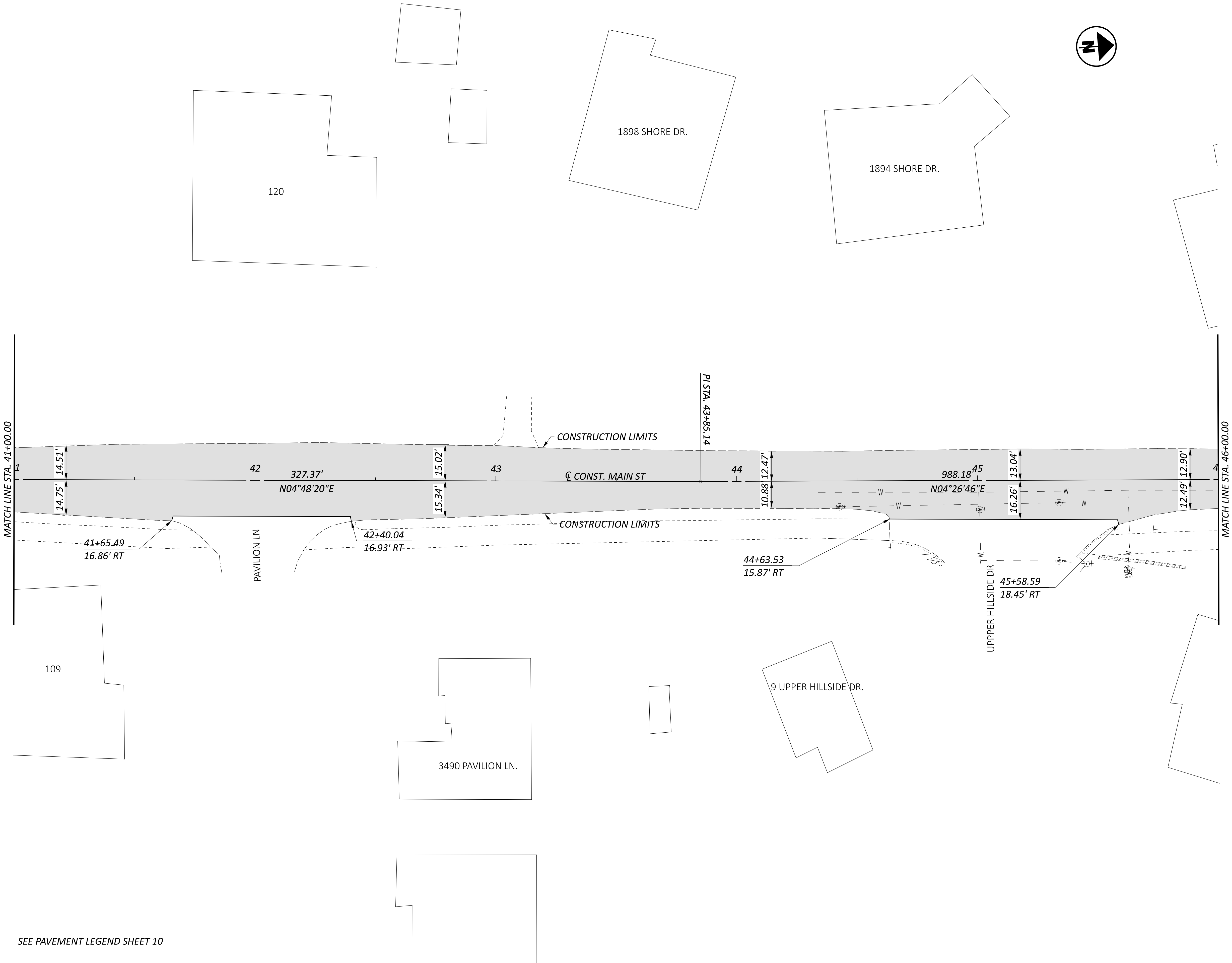
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TOTAL

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FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP\_008 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:09 PM USER: bgresnel  
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SEE PAVEMENT LEGEND SHEET 10

Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET

0 10 20 40

PLAN - MAIN STREET  
STA. 41+00.00 TO STA. 46+00.00

DESIGN AGENCY

DESIGNER  
AA

REVIEWER  
BMG 07/19/23

PROJECT ID  
125940

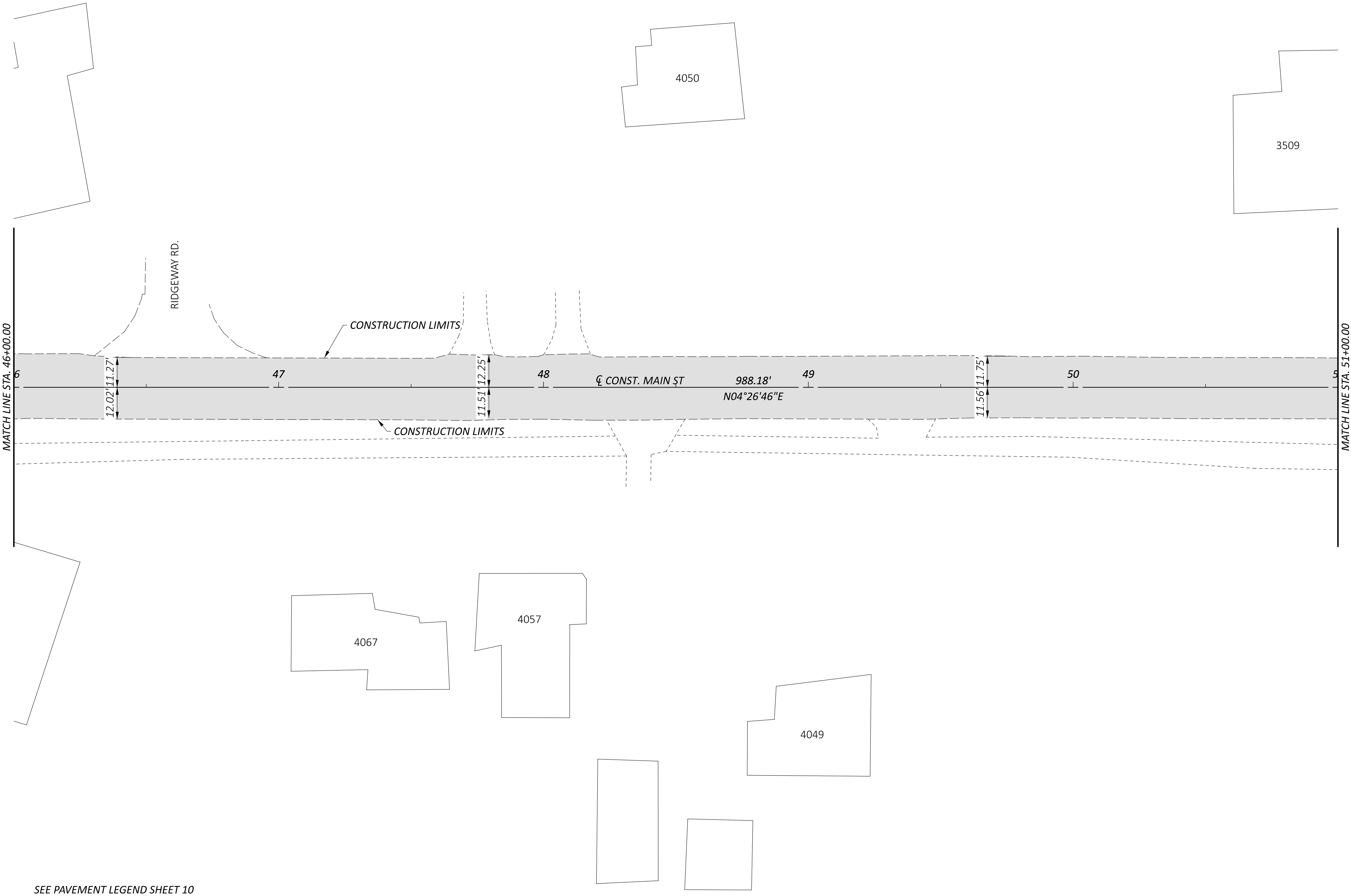
SHEET  
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TOTAL  
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56

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP\_Franklin - GP\_009 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:10 PM USER: bgresnel  
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Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET

0 10 20 40

DESIGN AGENCY

DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

22

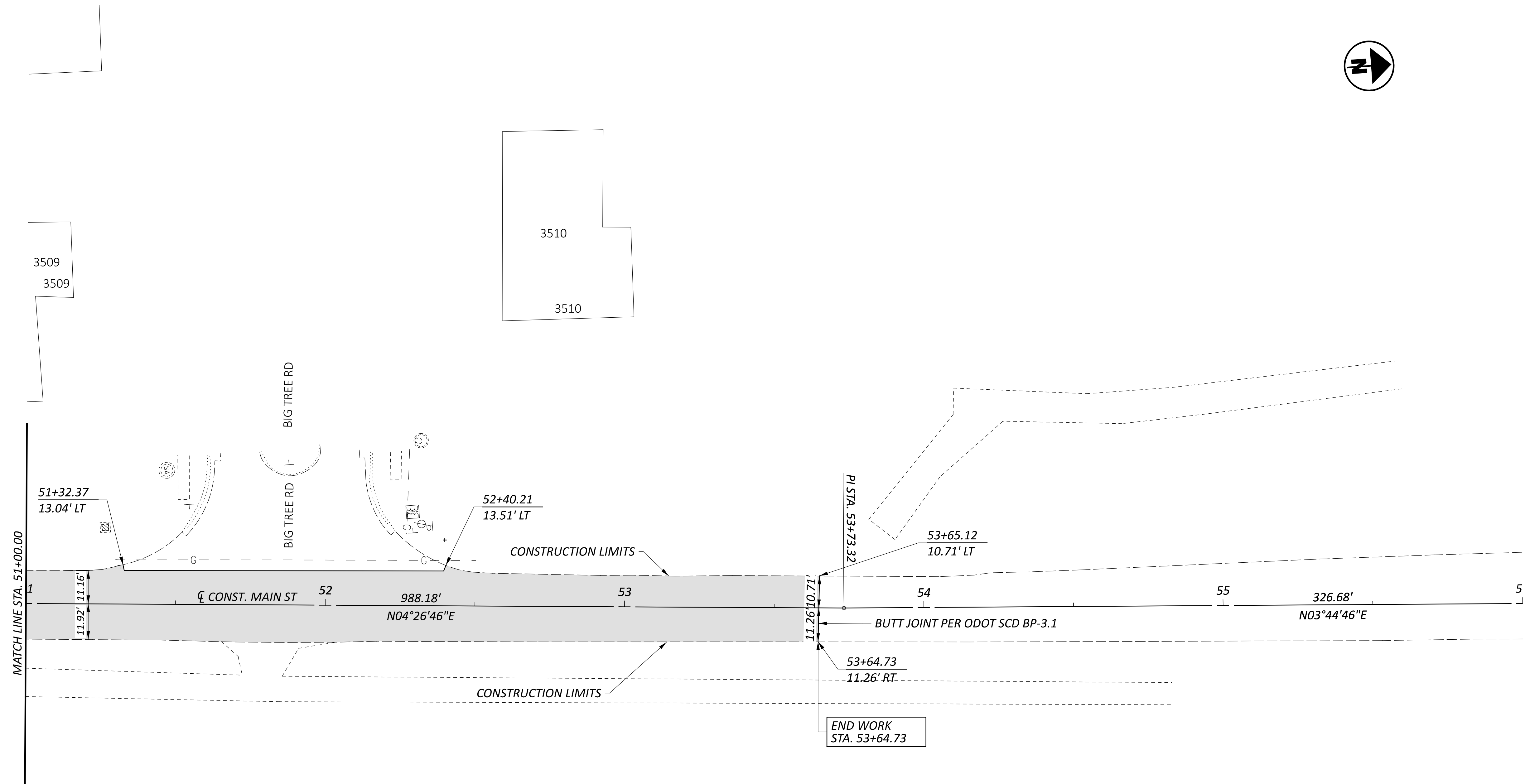
TOTAL

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57

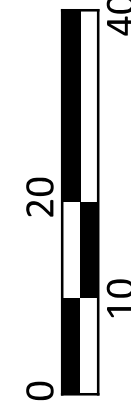
## FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE PAVEMENT LEGEND SHEET 10

Item A. Section 13, Item

HORIZONTAL  
SCALE IN FEET

PLAN - MAIN STREET  
STA. 51+00.00 TO STA. 53+65.12

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

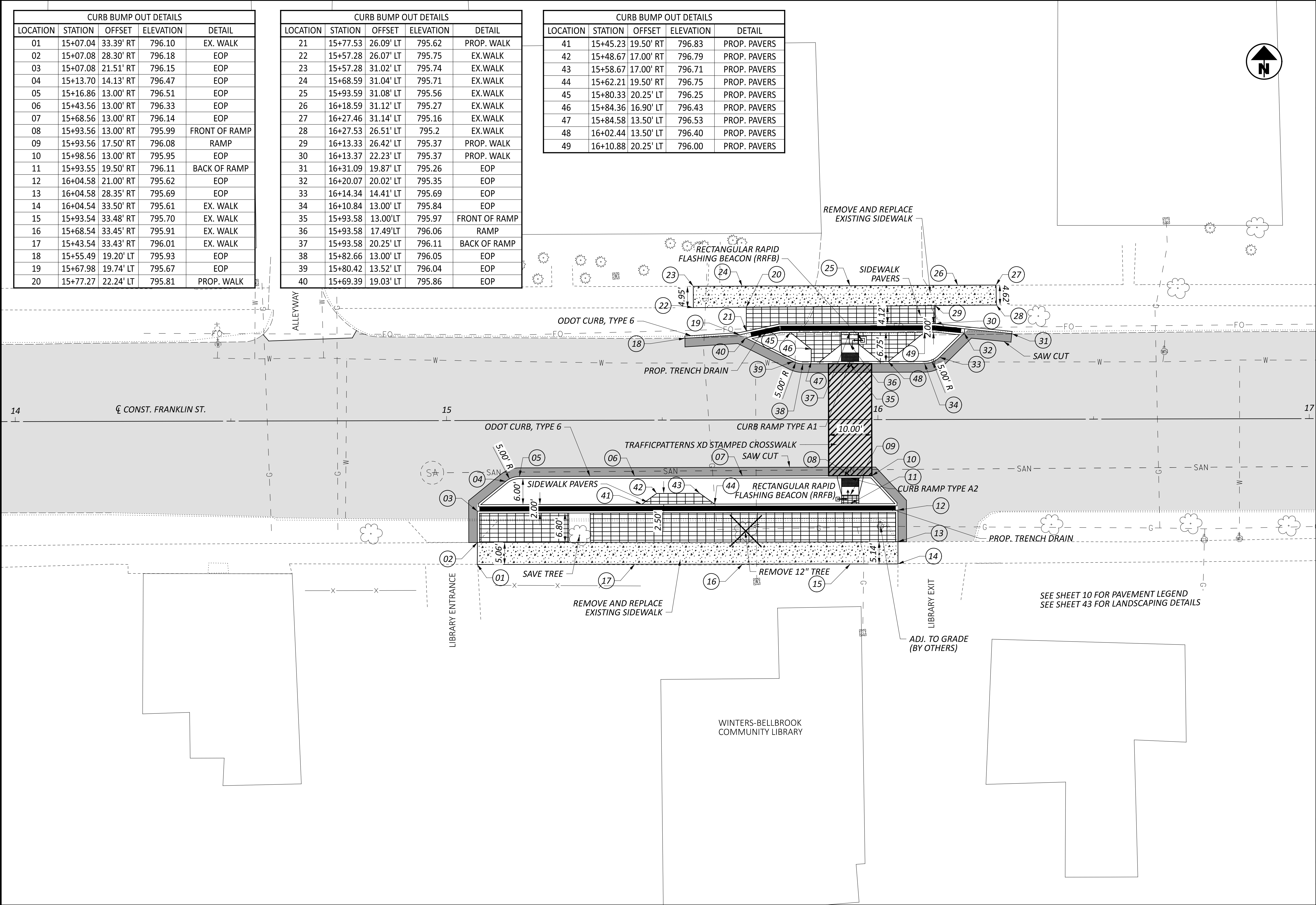
SHEET	TOTAL
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23 | 4

CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
01	15+07.04	33.39' RT	796.10	EX. WALK
02	15+07.08	28.30' RT	796.18	EOP
03	15+07.08	21.51' RT	796.15	EOP
04	15+13.70	14.13' RT	796.47	EOP
05	15+16.86	13.00' RT	796.51	EOP
06	15+43.56	13.00' RT	796.33	EOP
07	15+68.56	13.00' RT	796.14	EOP
08	15+93.56	13.00' RT	795.99	FRONT OF RAMP
09	15+93.56	17.50' RT	796.08	RAMP
10	15+98.56	13.00' RT	795.95	EOP
11	15+93.55	19.50' RT	796.11	BACK OF RAMP
12	16+04.58	21.00' RT	795.62	EOP
13	16+04.58	28.35' RT	795.69	EOP
14	16+04.54	33.50' RT	795.61	EX. WALK
15	15+93.54	33.48' RT	795.70	EX. WALK
16	15+68.54	33.45' RT	795.91	EX. WALK
17	15+43.54	33.43' RT	796.01	EX. WALK
18	15+55.49	19.20' LT	795.93	EOP
19	15+67.98	19.74' LT	795.67	EOP
20	15+77.27	22.24' LT	795.81	PROP. WALK

CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
21	15+77.53	26.09' LT	795.62	PROP. WALK
22	15+57.28	26.07' LT	795.75	EX. WALK
23	15+57.28	31.02' LT	795.74	EX. WALK
24	15+68.59	31.04' LT	795.71	EX. WALK
25	15+93.59	31.08' LT	795.56	EX. WALK
26	16+18.59	31.12' LT	795.27	EX. WALK
27	16+27.46	31.14' LT	795.16	EX. WALK
28	16+27.53	26.51' LT	795.2	EX. WALK
29	16+13.33	26.42' LT	795.37	PROP. WALK
30	16+13.37	22.23' LT	795.37	PROP. WALK
31	16+31.09	19.87' LT	795.26	EOP
32	16+20.07	20.02' LT	795.35	EOP
33	16+14.34	14.41' LT	795.69	EOP
34	16+10.84	13.00' LT	795.84	EOP
35	15+93.58	13.00' LT	795.97	FRONT OF RAMP
36	15+93.58	17.49' LT	796.06	RAMP
37	15+93.58	20.25' LT	796.11	BACK OF RAMP
38	15+82.66	13.00' LT	796.05	EOP
39	15+80.42	13.52' LT	796.04	EOP
40	15+69.39	19.03' LT	795.86	EOP

CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
41	15+45.23	19.50' RT	796.83	PROP. PAVERS
42	15+48.67	17.00' RT	796.79	PROP. PAVERS
43	15+58.67	17.00' RT	796.71	PROP. PAVERS
44	15+62.21	19.50' RT	796.75	PROP. PAVERS
45	15+80.33	20.25' LT	796.25	PROP. PAVERS
46	15+84.36	16.90' LT	796.43	PROP. PAVERS
47	15+84.58	13.50' LT	796.53	PROP. PAVERS
48	16+02.44	13.50' LT	796.40	PROP. PAVERS
49	16+10.88	20.25' LT	796.00	PROP. PAVERS



SEE SHEET 10 FOR PAVEMENT LEGEND  
SEE SHEET 43 FOR LANDSCAPING DETAILS



MODEL Sheet\_SurfFt PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 4:23:13 PM USER: bgressel  
Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940\_GI002.dgn

CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
21	34+06.07	19.02' LT	796.03	EOP
22	34+21.39	12.50' LT	797.12	EOP
23	34+29.61	12.50' LT	797.61	EOP
24	34+29.81	12.50' LT	797.61	FRONT OF RAMP
25	34+29.90	17.15' LT	797.65	RAMP
26	34+29.97	21.15' LT	797.69	BACK OF RAMP
27	34+39.59	21.83' LT	798.48	EOP
28	34+23.01	23.49' LT	797.17	PROP. WALK
29	34+14.29	23.66' LT	796.75	EX. WALK
30	34+17.98	24.98' LT	796.94	EX. WALK
31	34+30.60	24.74' LT	797.76	EX. WALK
32	34+39.96	27.41' LT	798.79	FRONT OF RAMP
33	34+35.28	27.41' LT	797.81	RAMP
34	34+30.61	27.41' LT	797.69	BACK OF RAMP
35	34+30.62	30.08' LT	798.11	EX. WALK
36	34+30.62	31.32' LT	798.18	EX. WALK
37	34+41.01	43.06' LT	800.13	EOP
38	34+55.17	35.64' LT	800.01	EOP
39	34+55.92	26.90' LT	799.43	FRONT OF RAMP
40	34+60.44	26.92' LT	799.49	RAMP

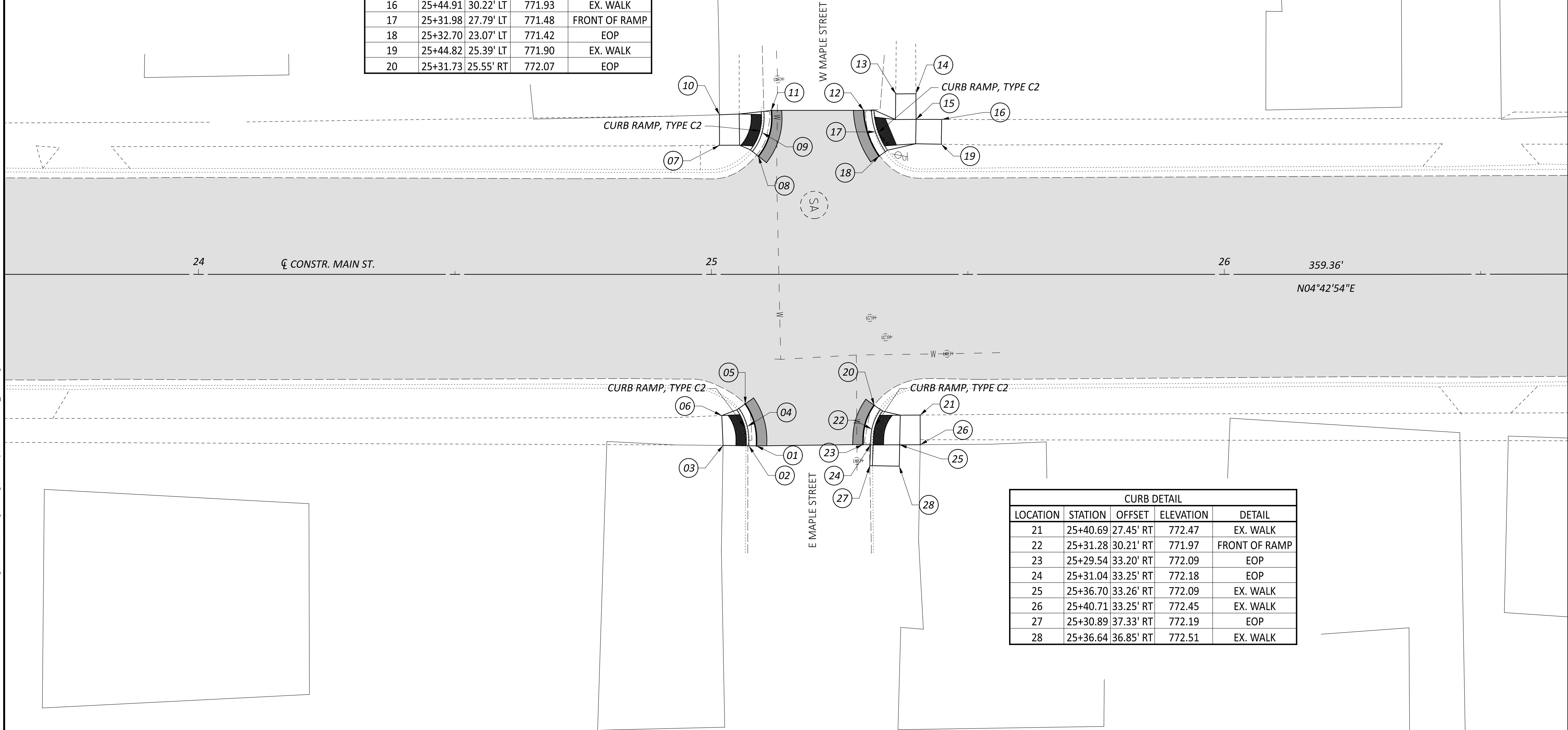
Diagram illustrating the construction of a curb ramp, showing various components and their removal/reuse status:

- REMOVE AND REUSE SIDEWALK PAVERS**: Indicated by a dashed line and arrow pointing to the area where pavers are being removed.
- CURB RAMP TYPE A1**: The main ramp structure.
- REUSE SIDEWALK PAVERS REMOVED FOR CURB RAMP CONSTRUCTION**: Indicated by a dashed line and arrow pointing to the area where pavers are being reused.
- DND STAIRS**: A set of stairs located adjacent to the ramp.
- 33**: A circular callout number pointing to a specific area of the ramp.
- 34**: A circular callout number pointing to a specific area of the ramp.
- 35**: A circular callout number pointing to a specific area of the ramp.
- 36**: A circular callout number pointing to a specific area of the ramp.
- 37**: A circular callout number pointing to a specific area of the ramp.



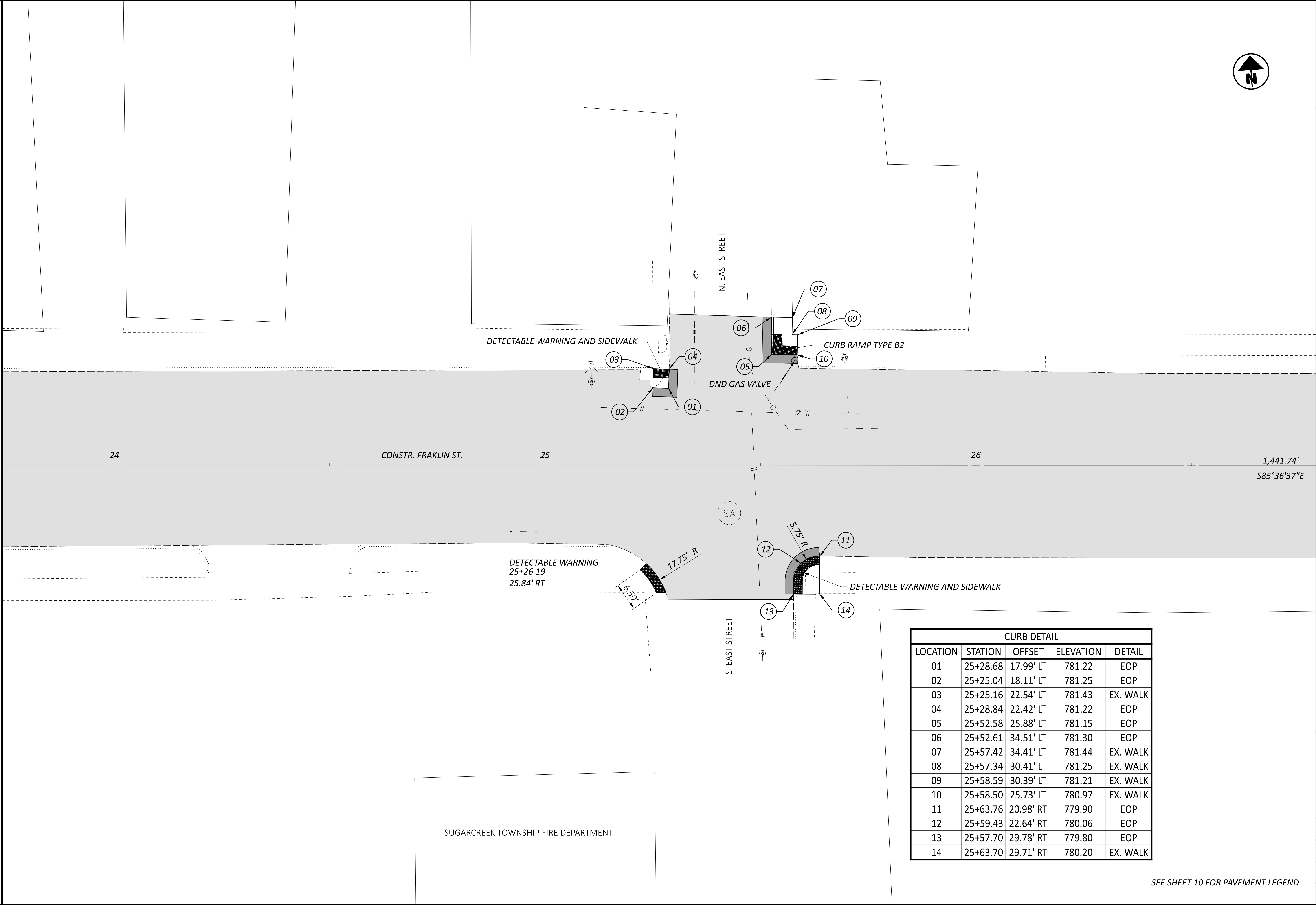


CURB DETAIL				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
01	25+08.79	33.47' RT	771.79	EOP
02	25+07.29	33.44' RT	771.85	EOP
03	25+02.27	33.36' RT	771.90	EX. WALK
04	25+06.99	29.68' RT	771.62	FRONT OF RAMP
05	25+06.59	25.28' RT	771.45	EOP
06	25+02.03	27.54' RT	771.84	EX. WALK
07	25+01.98	24.60' LT	771.65	EX. WALK
08	25+09.17	23.04' LT	771.42	EOP
09	25+09.89	27.66' LT	771.36	FRONT OF RAMP
10	25+01.57	31.13' LT	771.77	EX. WALK
11	25+11.69	31.98' LT	771.44	EOP
12	25+29.68	31.98' LT	771.58	EOP
13	25+35.94	35.20' LT	771.79	EX. WALK
14	25+39.88	35.24' LT	771.85	EX. WALK
15	25+39.91	30.24' LT	771.63	EX. WALK
16	25+44.91	30.22' LT	771.93	EX. WALK
17	25+31.98	27.79' LT	771.48	FRONT OF RAMP
18	25+32.70	23.07' LT	771.42	EOP
19	25+44.82	25.39' LT	771.90	EX. WALK
20	25+31.73	25.55' RT	772.07	EOP



CURB DETAIL				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
21	25+40.69	27.45' RT	772.47	EX. WALK
22	25+31.28	30.21' RT	771.97	FRONT OF RAMP
23	25+29.54	33.20' RT	772.09	EOP
24	25+31.04	33.25' RT	772.18	EOP
25	25+36.70	33.26' RT	772.09	EX. WALK
26	25+40.71	33.25' RT	772.45	EX. WALK
27	25+30.89	37.33' RT	772.19	EOP
28	25+36.64	36.85' RT	772.51	EX. WALK

SEE SHEET 10 FOR PAVEMENT LEGEND



CURB DETAIL				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
01	25+28.68	17.99' LT	781.22	EOP
02	25+25.04	18.11' LT	781.25	EOP
03	25+25.16	22.54' LT	781.43	EX. WALK
04	25+28.84	22.42' LT	781.22	EOP
05	25+52.58	25.88' LT	781.15	EOP
06	25+52.61	34.51' LT	781.30	EOP
07	25+57.42	34.41' LT	781.44	EX. WALK
08	25+57.34	30.41' LT	781.25	EX. WALK
09	25+58.59	30.39' LT	781.21	EX. WALK
10	25+58.50	25.73' LT	780.97	EX. WALK
11	25+63.76	20.98' RT	779.90	EOP
12	25+59.43	22.64' RT	780.06	EOP
13	25+57.70	29.78' RT	779.80	EOP
14	25+63.70	29.71' RT	780.20	EX. WALK

SEE SHEET 10 FOR PAVEMENT LEGEND

Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET  
0 5 10 20

INTERSECTION DETAIL  
FRANKLIN ST. & EAST ST.

DESIGN AGENCY

DESIGNER

ASN

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

27

TOTAL

47

62

630 SIGNING MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE SOLAR POWERED, PEDESTRIAN ACTIVATED, AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBs (IA-21).

GENERAL REQUIREMENTS -

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

EACH RRFB SHALL CONTAIN A PEDESTRIAN INDICATION LIGHT VISIBLE BY THE PEDESTRIAN IN THE DIRECTION OF TRAVEL.

FUNCTIONAL REQUIREMENTS -

EACH RRFB SHALL UTILIZE SOLAR POWER.

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

THE UNIT SHALL BE CAPABLE OF RUNNING 14 DAYS WITHOUT SUNLIGHT.

MATERIALS -

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

1. RRFB INDICATIONS

- A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
- B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
- C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.

D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.

E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM CLASS 1 SPECIFICATIONS OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY, 2005.

F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.

G. An LED PEDESTRIAN CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

H. THE PEDESTRIAN CONFIRMATION LIGHT SHALL HAVE A MINIMUM AREA OF 0.5 SQUARE INCHES AND BE CONSPICUOUS TO PEDESTRIANS AT ALL DISTANCES FROM THE BEGINNING OF THE CONTROLLED CROSSWALK TO A POINT 10 FEET FROM THE END OF THE CONTROLLED CROSSWALK DURING BOTH DAY AND NIGHT.

2. SIGNS

- A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
- B. PEDESTRIAN PUSHBUTTONS SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.
- C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
- D. ASSURE SIGN MEETS THE REQUIREMENTS OF C&MS 630.

3. CONTROL CIRCUIT

- A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP T TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
- B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
- C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

4. BATTERY AND SOLAR PANELS

- A. BATTERY UNIT SHALL BE A 12VDC, 35 AHR MINIMUM, SEALED GEL OR AGM LEAD ACID BATTERY. BATTERIES SHALL HAVE A WRITTEN TWO YEAR FULL

REPLACEMENT WARRANTY.

B. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 40 WATTS PEAK TOTAL OUTPUT.

C. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45 DEGREES - 60 DEGREES TO PROVIDE MAXIMUM OUTPUT.

D. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

5. WIRELESS RADIO

- A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI OR APPROVED EQUAL.
- B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
- C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGH-OUT THE DURATION OF THE FLASHING CYCLE.

6. PUSHBUTTON

- A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF -30 DEGREES F TO +165 DEGREES F.
- B. PUSHBUTTON SHALL BE ADA COMPLIANT.

7. PEDESTAL SHAFT AND BASE - MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH TRANSFORMER BASE. A 14 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION -

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY -

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE.

MEASUREMENT -

THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

PAYMENT -

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 "SIGNING MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY".

PEDESTAL, 8' TRANSFORMER BASE

THE EXTERIOR OF PEDESTALS AND BASES PROVIDED AS PART OF THE "ITEM 630, SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB)" SHALL BE POWDER COATED BLACK AFTER GALVANIZING IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 916.

PAYMENT SHALL BE INCIDENTAL TO "ITEM 630, SIGNING, MISC.: SOLAR-POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB)".

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

28

TOTAL

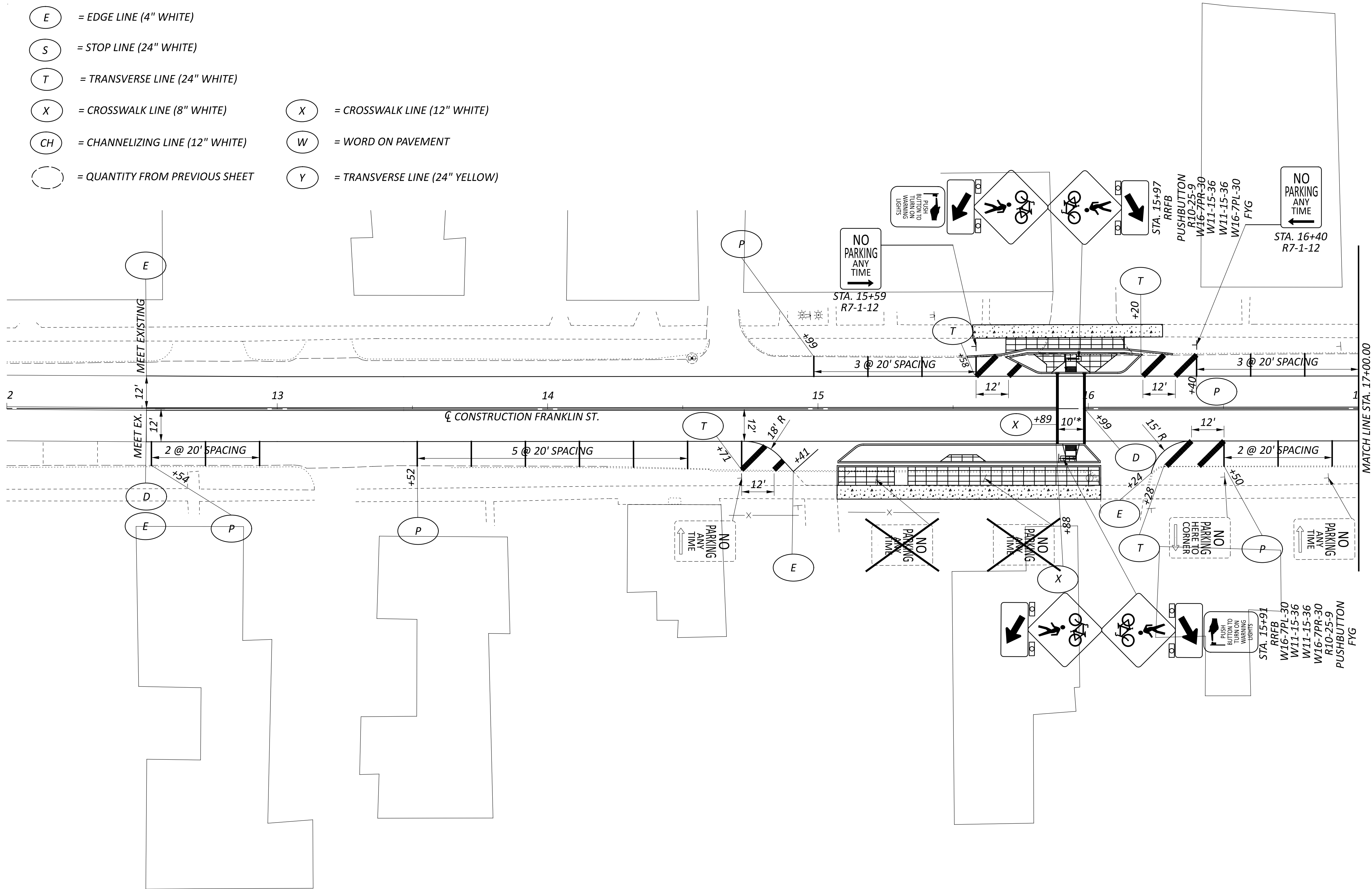
47

- PAVEMENT MARKING LEGEND

  - = ARROW ON PAVEMENT (96" WHITE)
  - = PARKING STALL
  - = CENTER LINE (DOUBLE SOLID YELLOW)
  - = EDGE LINE (4" WHITE)
  - = STOP LINE (24" WHITE)
  - = TRANSVERSE LINE (24" WHITE)
  - = CROSSWALK LINE (8" WHITE)
  - = CHANNELIZING LINE (12" WHITE)
  - = QUANTITY FROM PREVIOUS SHEET
  - = CROSSWALK LINE (12" WHITE)
  - = WORD ON PAVEMENT
  - = TRANSVERSE LINE (24" YELLOW)

- SIGN LEGEND

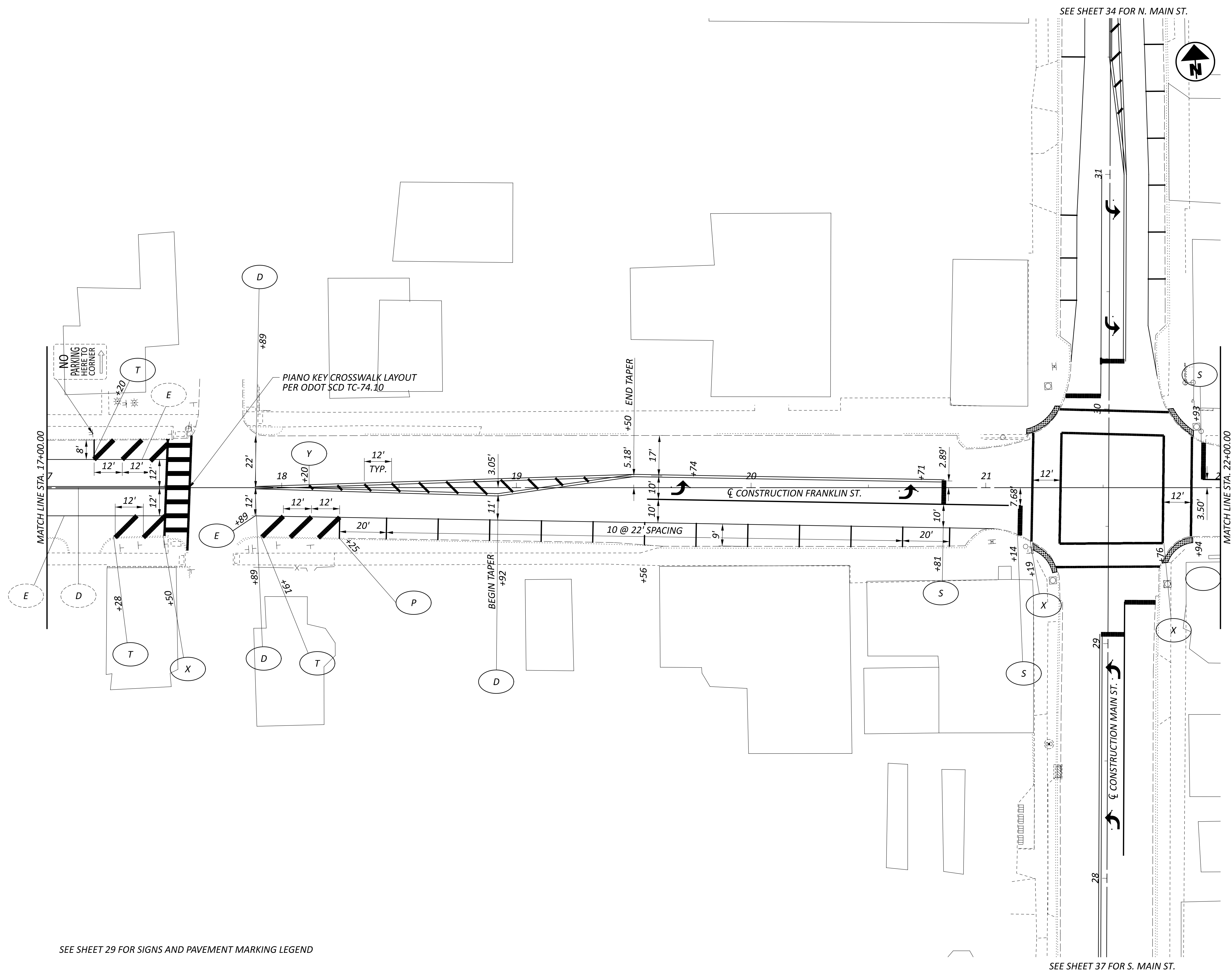
  - EXISTING SIGN TO REMAIN
  - EXISTING SIGN TO BE REMOVED
  - EXISTING SIGN TO BE RELOCATED
  - PROPOSED SIGN



\*PLACE 12" CROSSWALK LINE ON PERIMETER OF TRAFFIC PATTERNS XD  
ENHANCED CROSSWALK

## FRANKLIN AND MAIN STREET IMPROVEMENTS

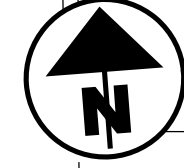
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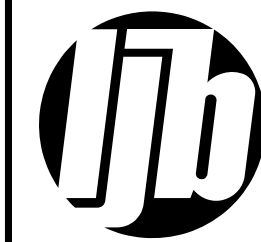
SEE SHEET 29 FOR SIGNS AND PAVEMENT MARKING LEGEND

SEE SHEET 37 FOR S. MAIN ST.

SEE SHEET 34 FOR N. MAIN ST.



DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET	TOTAL
22	45

30	47	65
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Item A. Section 13, Item

HORIZONTAL  
SCALE IN FEET

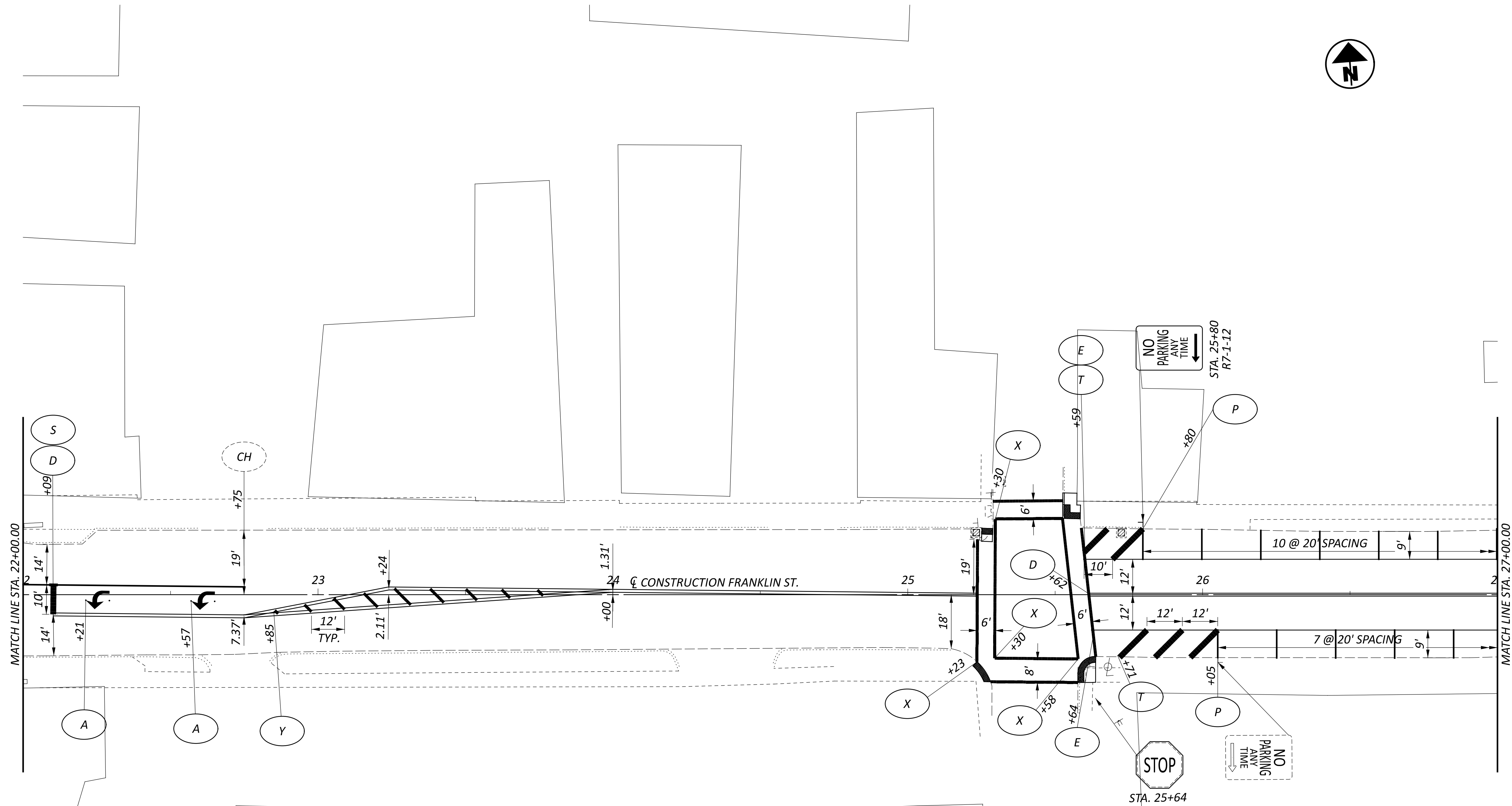
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TRAFFIC CONTROL PLAN  
STA. 17+00 TO STA. 22+00



## FRANKLIN AND MAIN STREET IMPROVEMENTS

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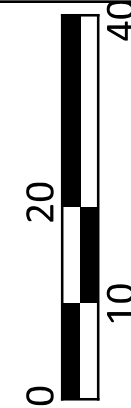


SEE SHEET 29 FOR SIGNS AND PAVEMENT MARKING LEGEND



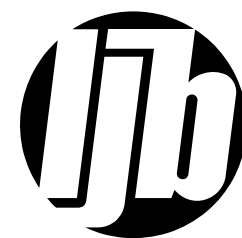
Item A. Section 13, Item

HORIZONTAL  
SCALE IN FEET



TRAFFIC CONTROL PLAN  
STA. 22+00 TO STA. 27+00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

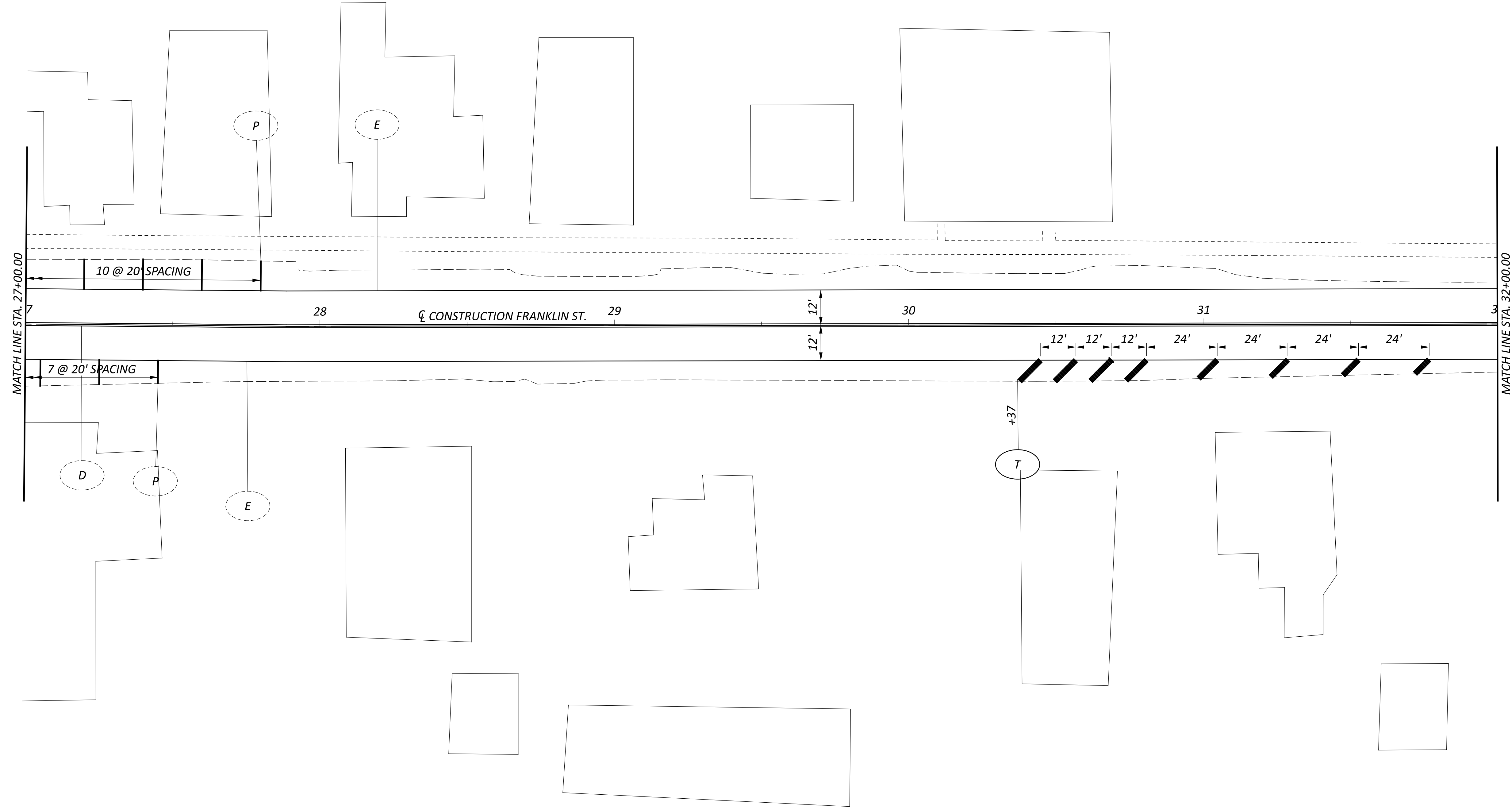
125940

SHEET

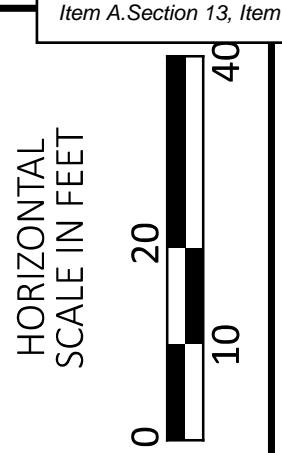
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FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE SHEET 29 FOR SIGNS AND PAVEMENT MARKING LEGEND



TRAFFIC CONTROL PLAN  
STA. 27+00 TO STA. 32+00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

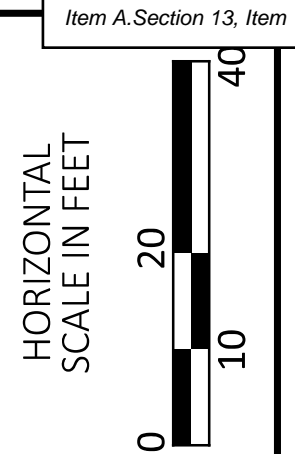
SHEET

32

TOTAL

47

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TRAFFIC CONTROL PLAN  
STA. 32+00 TO STA. 37+00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

TOTAL

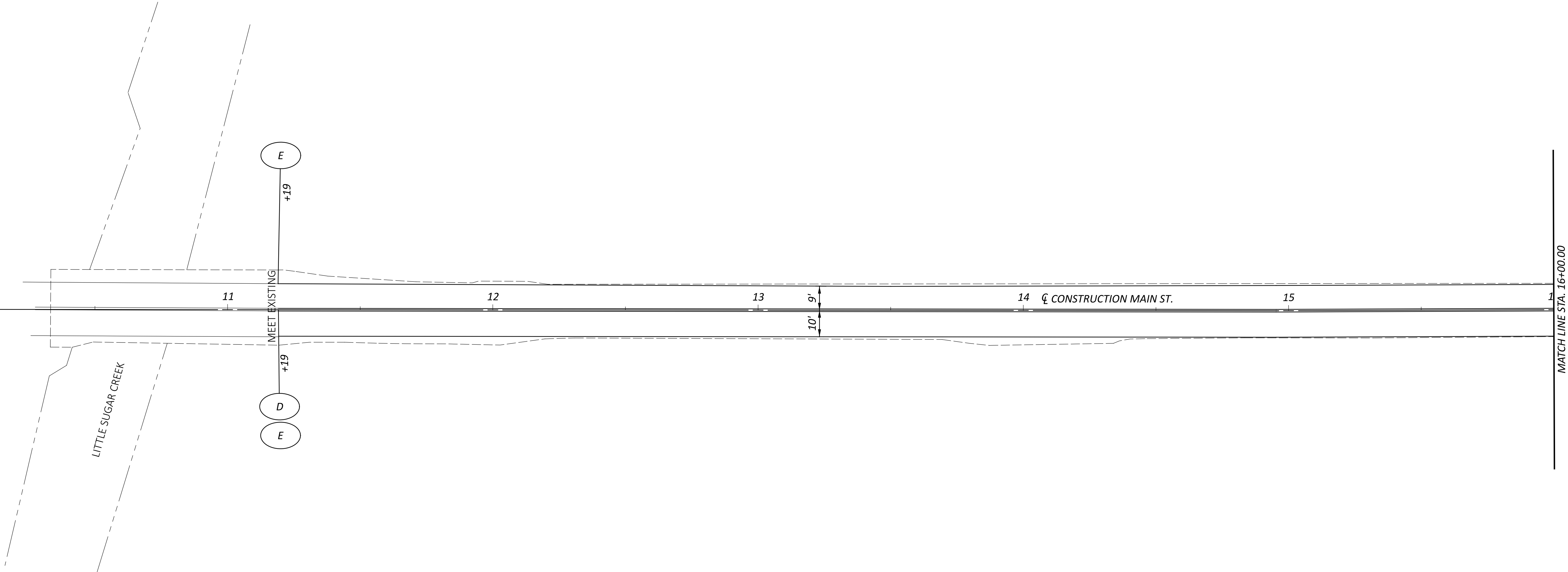


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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

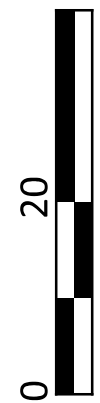
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TOTAL

47

TRAFFIC CONTROL PLAN  
STA. 11+19.00 - STA. 16+00.00

HORIZONTAL  
SCALE IN FEET

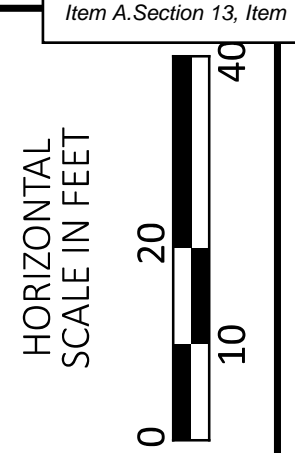
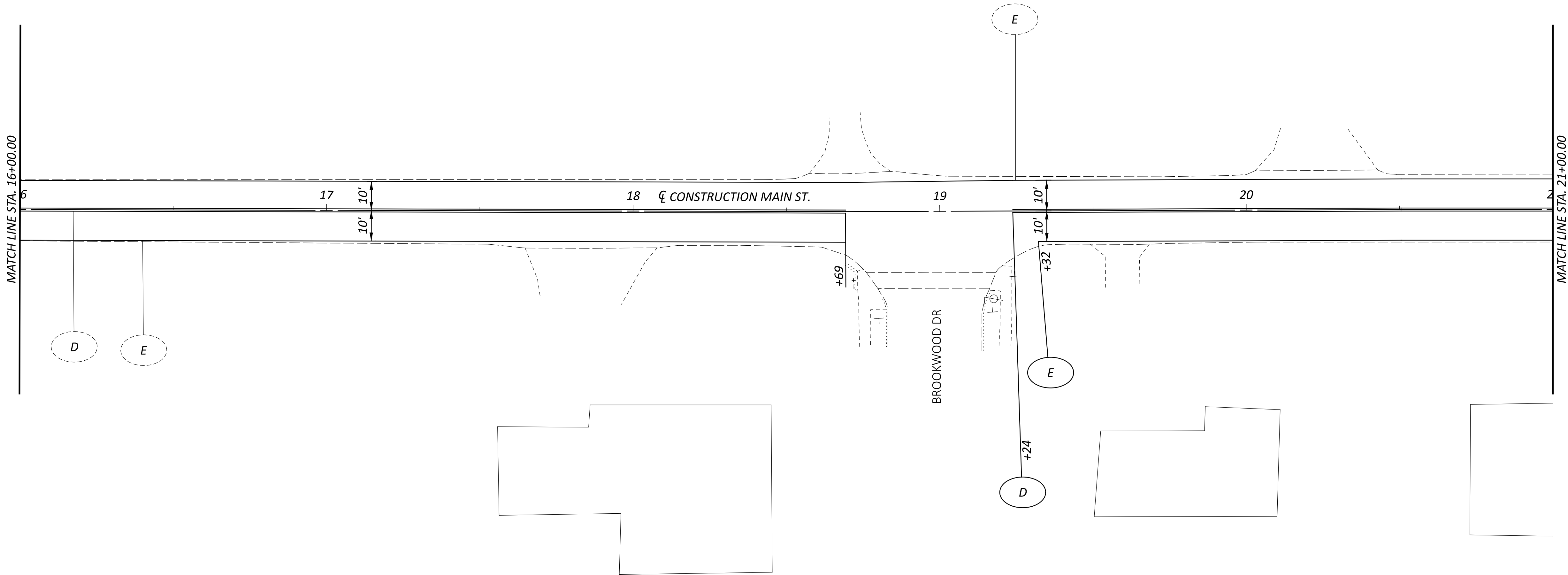


Item A, Section 13, Item

FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



TRAFFIC CONTROL PLAN  
STA. 16+00 TO STA. 21+00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

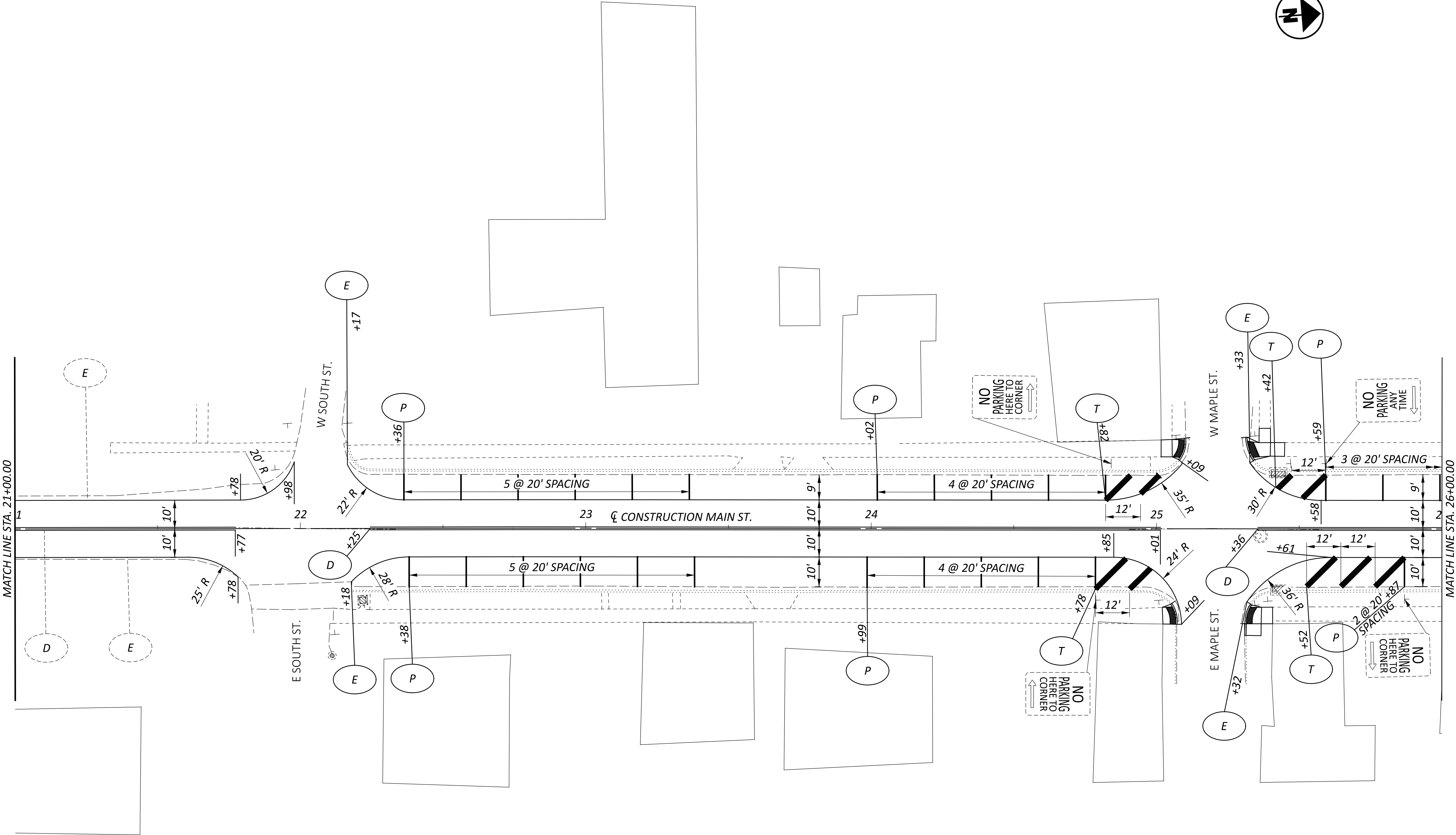
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TOTAL

47

FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND

Item A, Section 13, Item

HORIZONTAL SCALE IN FEET

0 10 20 40

TRAFFIC CONTROL PLAN

STA. 21+00 TO STA. 26+00

DESIGN AGENCY

DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

36

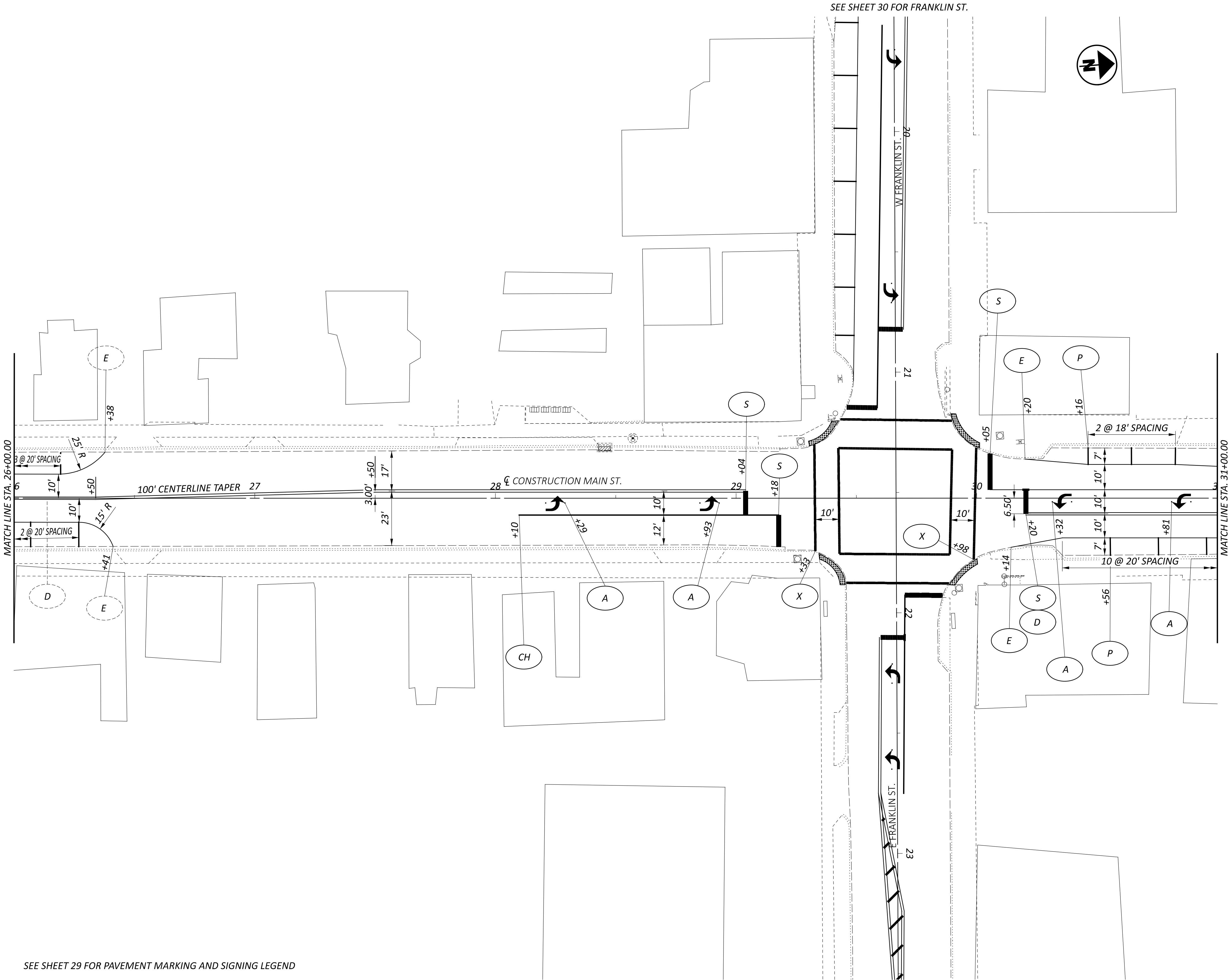
TOTAL

47

71

FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND

SEE SHEET 30 FOR FRANKLIN ST.

SEE SHEET 31 FOR FRANKLIN ST.

Item A, Section 13, Item

HORIZONTAL  
SCALE IN FEET

0

10

20

40

TRAFFIC CONTROL PLAN  
STA. 26+00 TO STA. 31+00

DESIGN AGENCY

DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

37

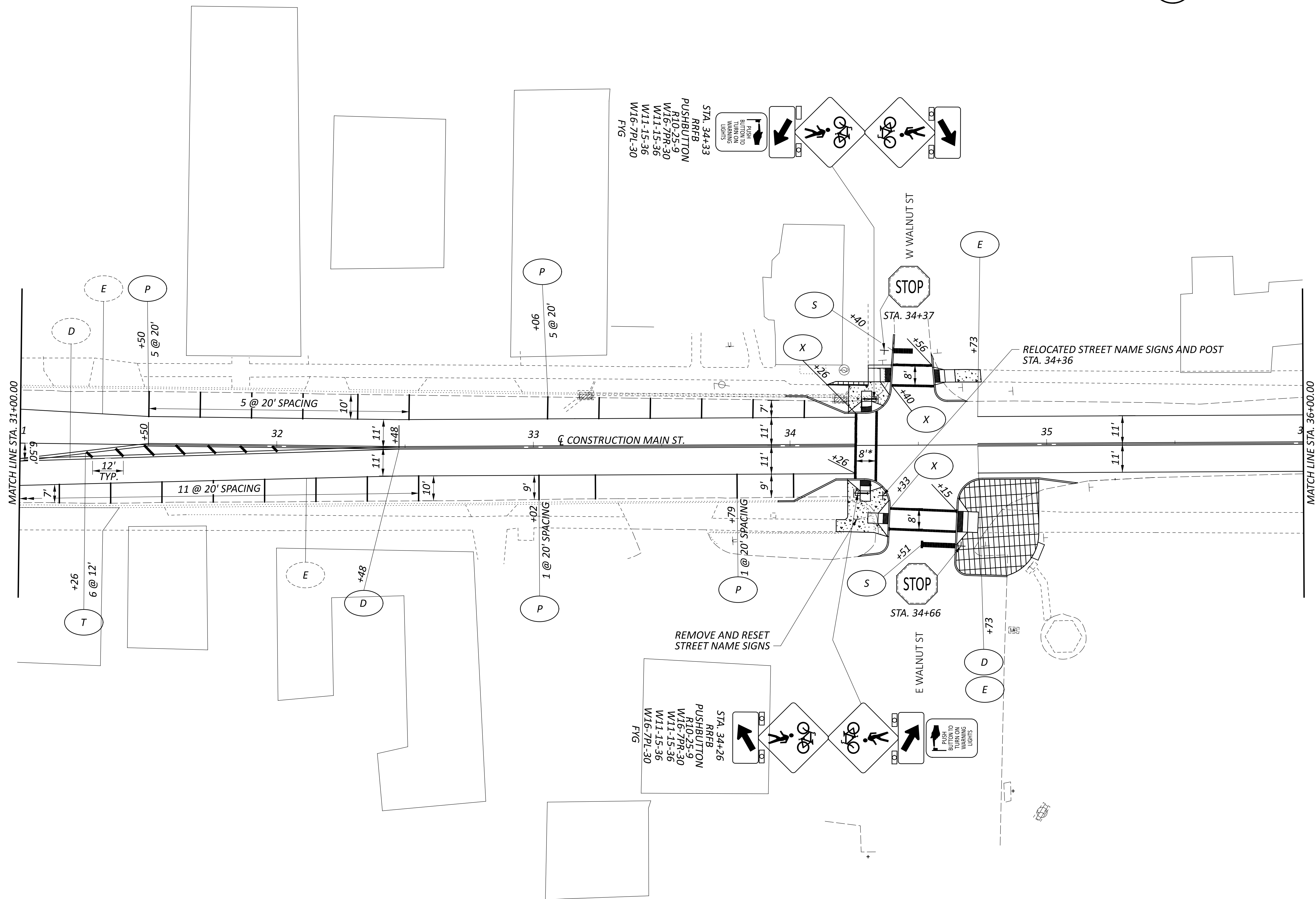
TOTAL

47

72

## FRANKLIN AND MAIN STREET IMPROVEMENTS

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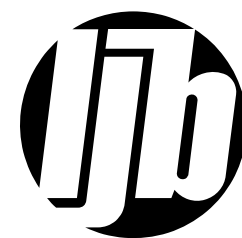


SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND

*\*PLACE 12" CROSSWALK LINE ON PERIMETER OF TRAFFIC PATTERNS XD  
ENHANCED CROSSWALK*

# TRAFFIC CONTROL PLAN

STA. 31+00.00 - STA. 36+00.00



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT II

125940

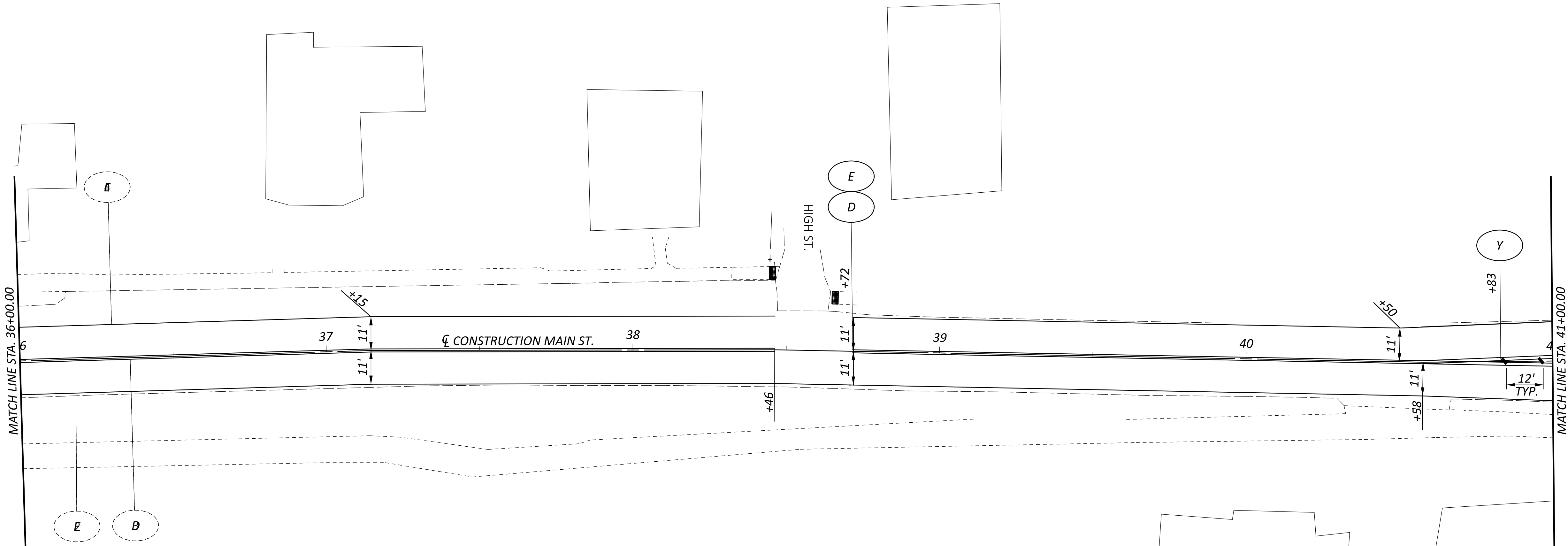
SHEET

TOTAL

FRANKLIN AND MAIN STREET IMPROVEMENTS

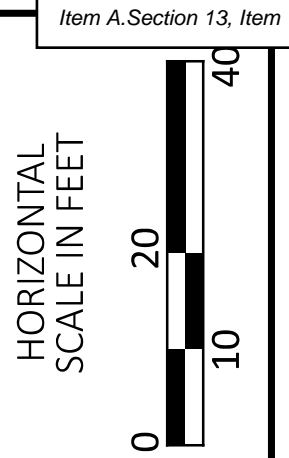
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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



DESIGN AGENCY	
DESIGNER	AA
REVIEWER	BMG
PROJECT ID	07/19/23
SHEET	125940
TOTAL	47

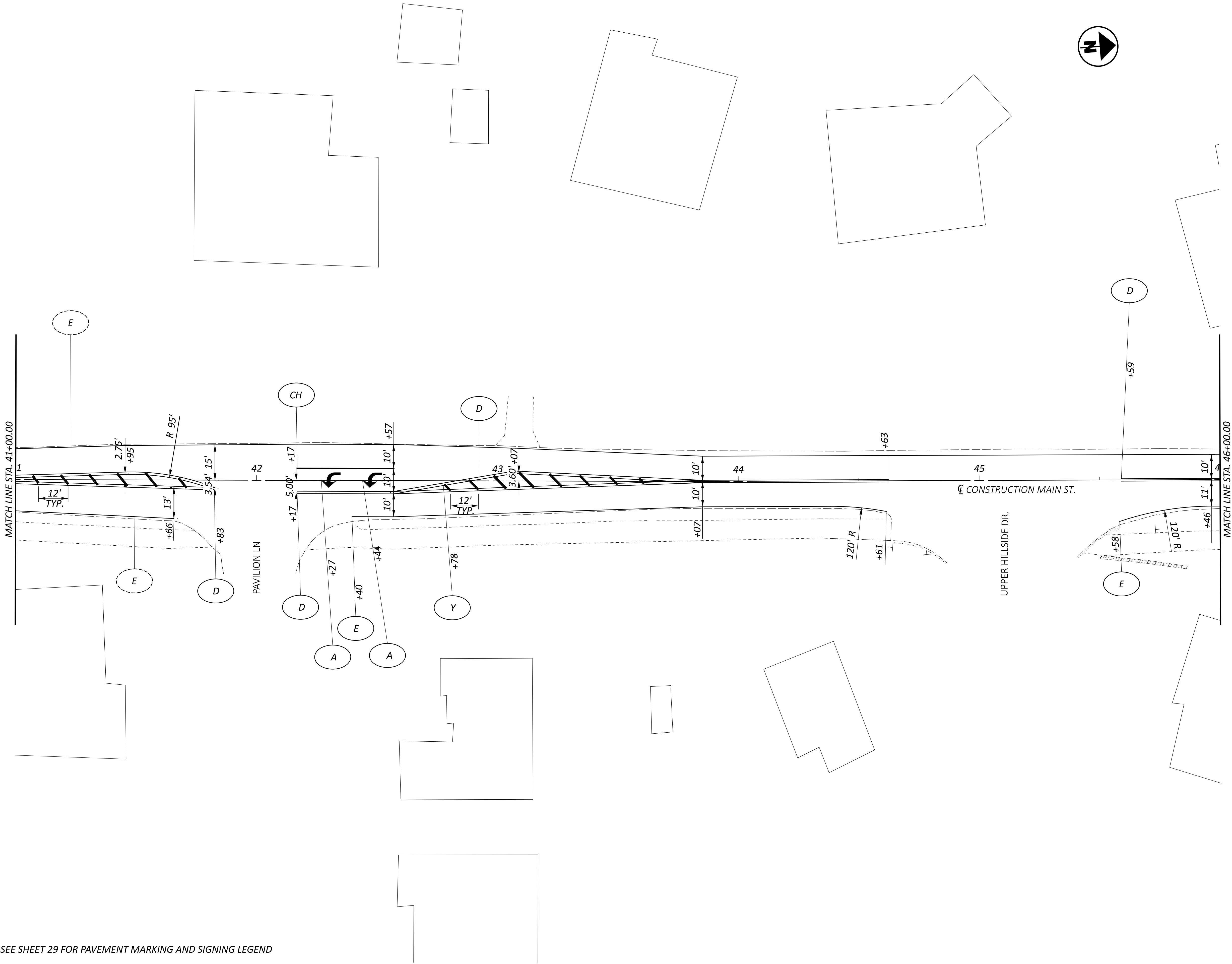
TRAFFIC CONTROL PLAN  
STA. 36+00 TO STA. 41+00



FRANKLIN AND MAIN STREET IMPROVEMENTS

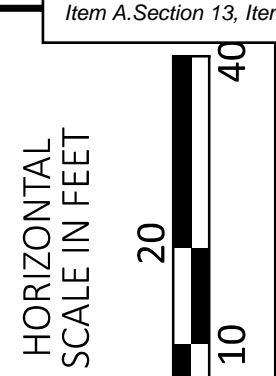
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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



DESIGN AGENCY	
DESIGNER	AA
REVIEWER	BMG
PROJECT ID	07/19/23
SHEET	125940
40	TOTAL 47

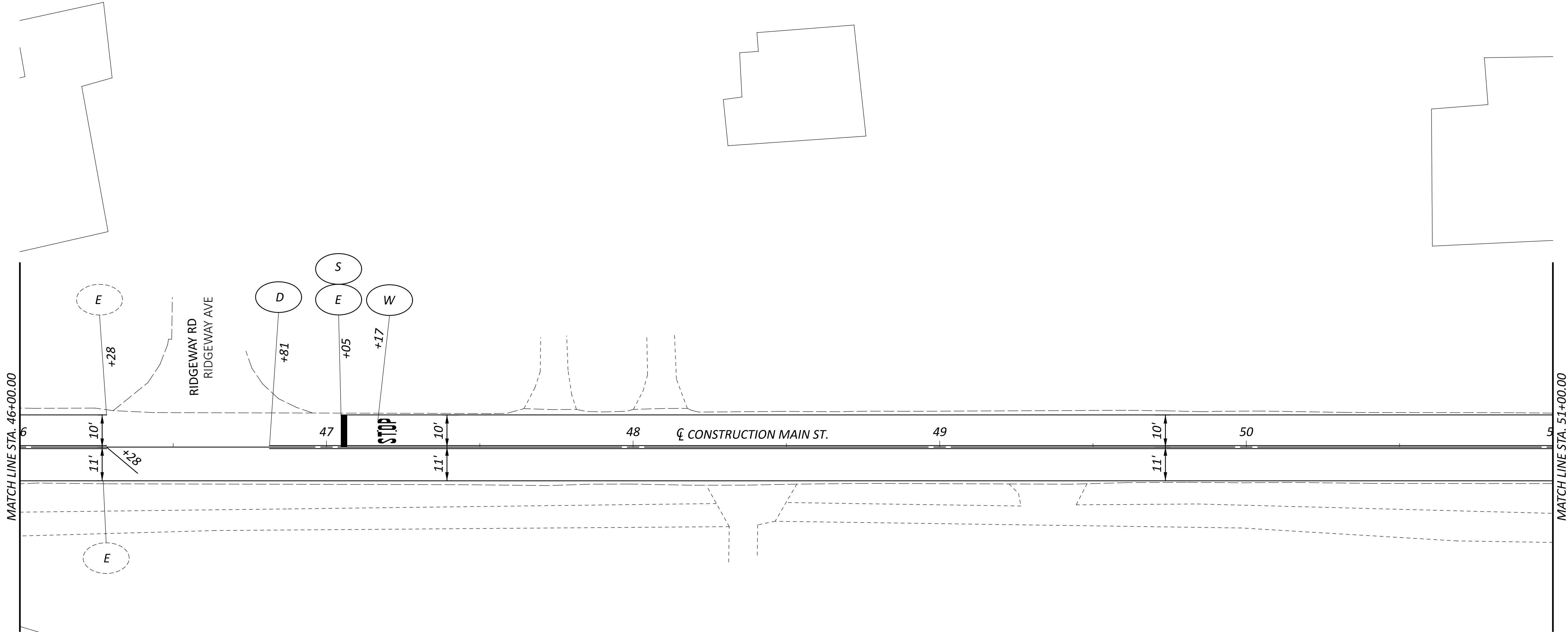
TRAFFIC CONTROL PLAN  
STA. 41+00 TO STA. 46+00



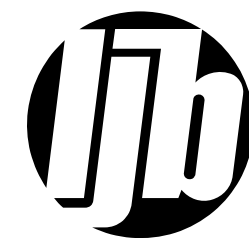
FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

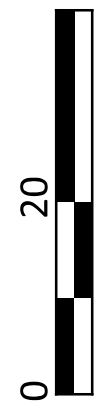
41

TOTAL

47

TRAFFIC CONTROL PLAN  
STA. 46+00 TO STA. 51+00

HORIZONTAL  
SCALE IN FEET



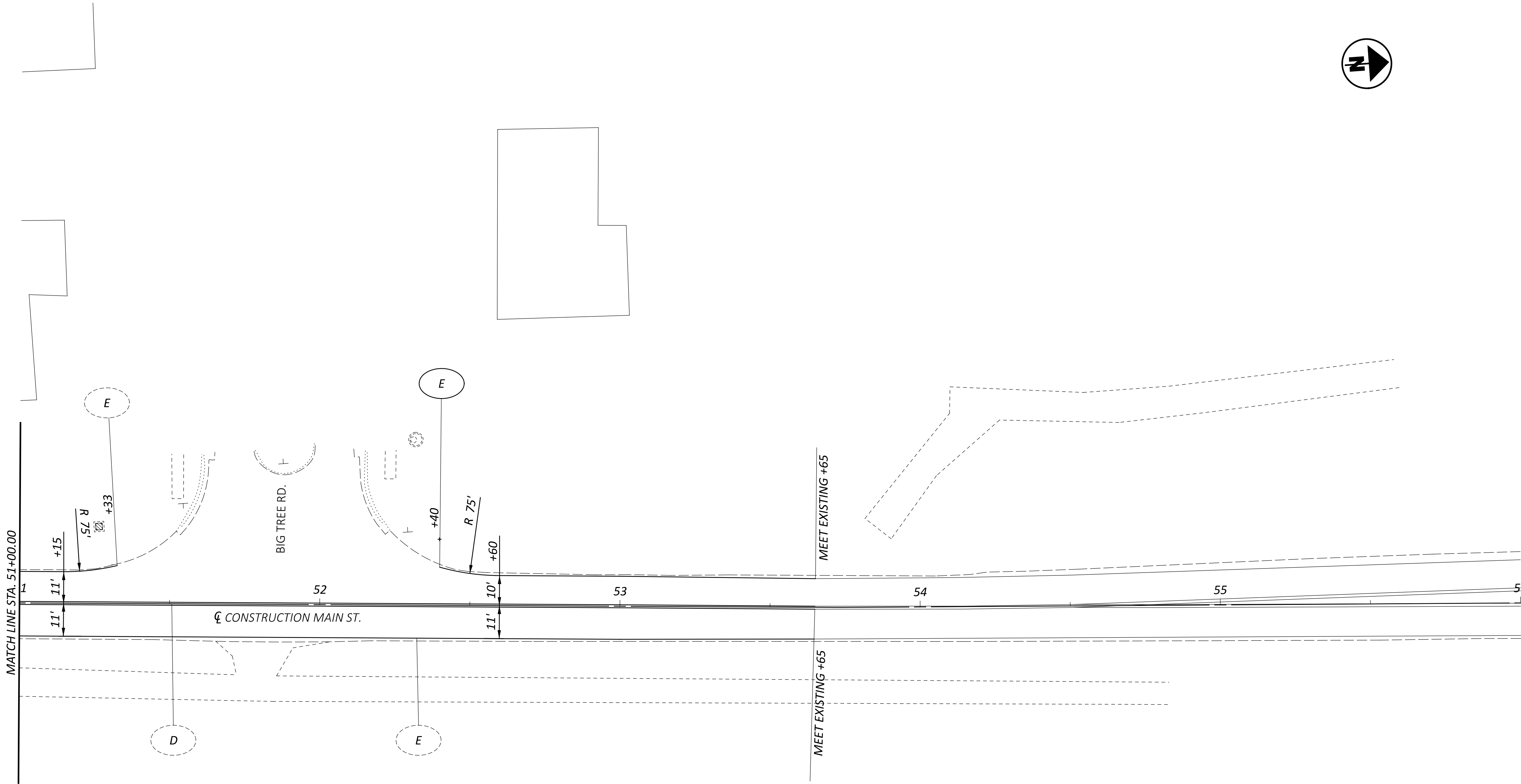
Item A, Section 13, Item



FRANKLIN AND MAIN STREET IMPROVEMENTS

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SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

42

TOTAL

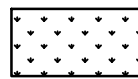
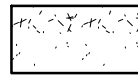
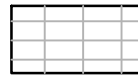

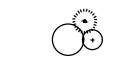
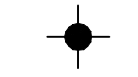





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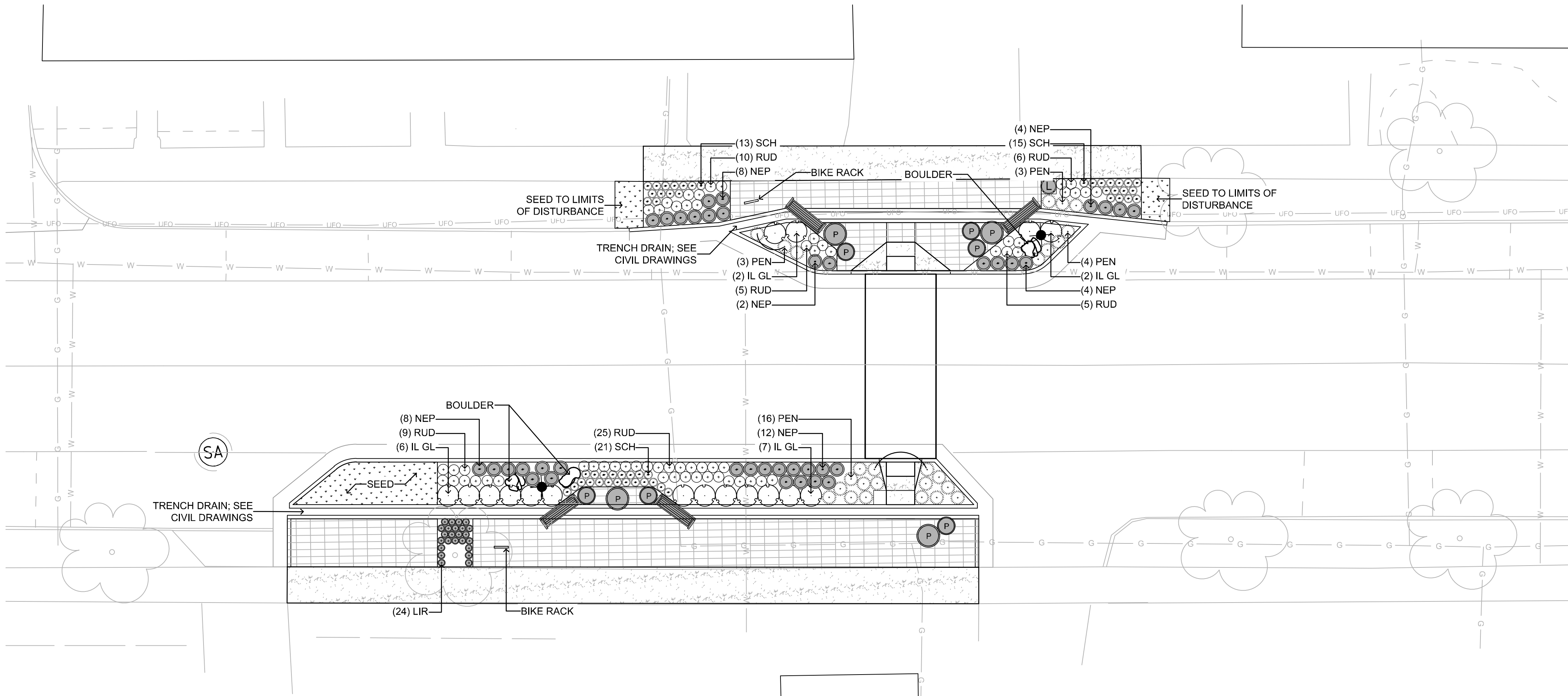
TRAFFIC CONTROL PLAN  
STA. 51+00 TO STA. 53+65

Item A, Section 13, Item

KEY	ITEM	UNIT	DESCRIPTION	SIZE	QTY.	COMMON NAME	SPACING
	659E10001	SF	SEEDING, AS PER PLAN		150	TURF SEED	
	661E00501	CY	MULCH, AS PER PLAN		4	MULCH	
LIR	661E14001	EACH	PERENNIALS (LIRIOPE MUSCARI), AS PER PLAN	#1 CONT.	24	LIRIOPE	12" O.C.
NEP	661E14001	EACH	PERENNIALS (NEPETA FAASSENII 'CATS MEOW'), AS PER PLAN	#1 CONT.	38	CATS MEOW CATMINT	24" O.C.
SCH	661E14001	EACH	PERENNIALS (SCHIZACHYRIUM SCOPARIUM), AS PER PLAN	#1 CONT.	49	LITTLE BLUESTEM	15" O.C.
PEN	661E14001	EACH	PERENNIALS (PENNISETUM ALOPECUROIDES 'HAMELN'), AS PER PLAN	#2 CONT.	26	DWARF FOUNTAIN GRASS	24" O.C.
RUD	661E14001	EACH	PERENNIALS (RUDBECKIA FULGIDA 'GOLDSTURM'), AS PER PLAN	#1 CONT.	60	BLACK EYED SUSAN	24" O.C.
IL GL	661E30070	EACH	EVERGREEN SHRUB (ILEX GLABRA 'STRONGBOX'), AS PER PLAN	B&B; 18" HT	17	STRONGBOX INKBERRY HOLLY	36" O.C.
	690E98700	CY	BACKFILL MIX		35.5	BACKFILL MIX	

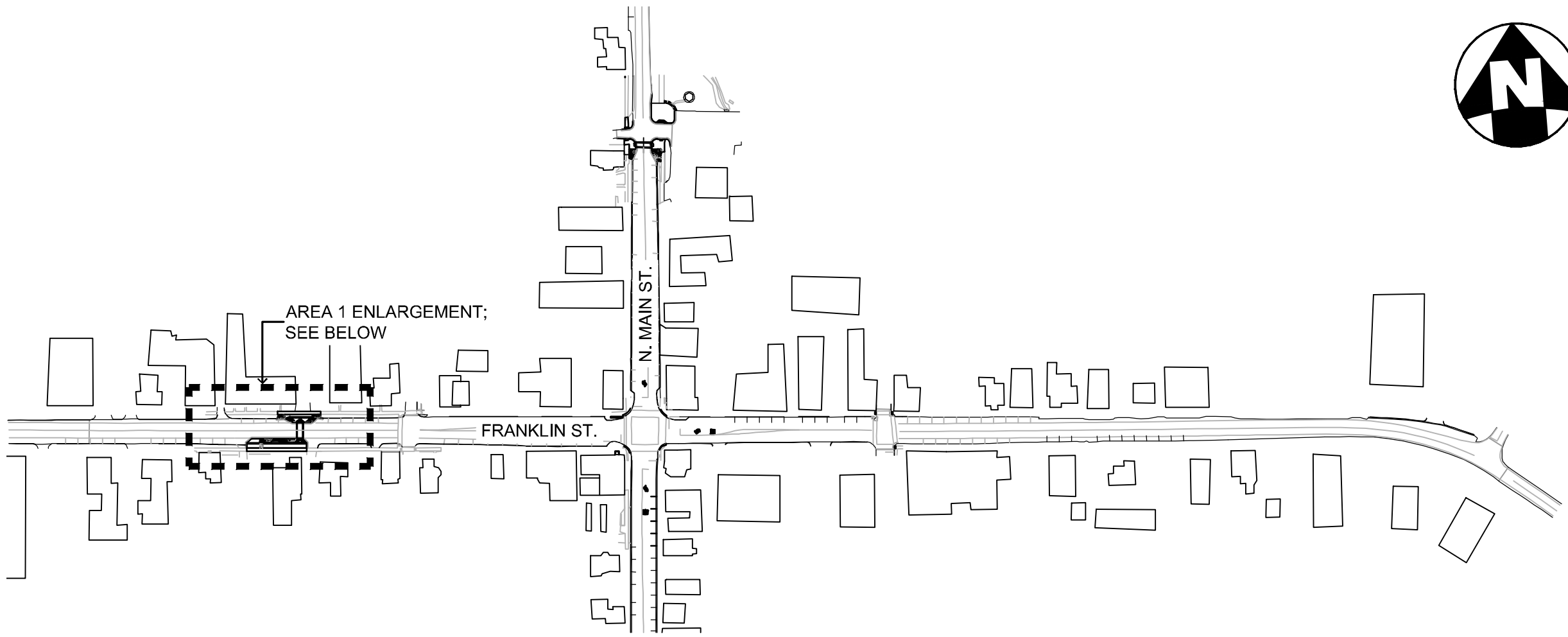
LEGEND

-  TURF SEED
-  CONCRETE, SEE CIVIL DRAWINGS
-  PAVERS, SEE CIVIL DRAWINGS
-  EXISTING TREE TO REMAIN
-  SHRUBS & PERENNIALS, SEE DETAILS 2-5 / SHEET 3
-  PROPOSED LIGHT POLE LOCATION; NOT INSTALLED IN THIS PHASE
-  ITEM 690E98000 SPECIAL - BENCH, SEE DETAIL 4/ SHEET 46
-  ITEM 690E98000 SPECIAL - PLANTER, SEE DETAIL 1/ SHEET 46
-  ITEM 680E14550 SPECIAL - TRASH RECEPACLE, SEE DETAIL 2/ SHEET 46
-  ITEM 690E50560 SPECIAL - BIKE RACK, SEE DETAIL 3/ SHEET 46
-  ITEM 690E98000 SPECIAL - BOULDER, SEE DETAIL 6/ SHEET 45



AREA 1 ENLARGEMENT

KEY MAP: 1" = 200' - 0"



LANDSCAPE & MATERIALS PLAN

HORIZONTAL  
SCALE IN FEET



REF NO.	SHEET NO.	STATION TO STATION	659	661	661	661	661	661	661	661	659	690	690	680	680	690	690
			SEEDING AND MULCHING, AS PER PLAN	MULCH, AS PER PLAN	PERENNIALS, AS PER PLAN, (LIRIOPE MUSCARI)	PERENNIALS, AS PER PLAN, (NEPETA FAASSENII 'CATS MEOW')	PERENNIALS, AS PER PLAN, (SCHIZACHYRIUM SCOPARIUM)	PERENNIALS, AS PER PLAN, (PENNISETUM ALOPECUROIDES 'HAMELN')	PERENNIALS, AS PER PLAN, (RUDBECKIA FULGIDA 'GOLDSTURM')	EVERGREEN SHRUB, AS PER PLAN, (ILEX GLABRA 'STRONGBOX')	BACKFILL MIX	BENCH	PLANTER, SMALL	PLANTER, LARGE	TRASH RECEPTACLE	BICYCLE RACK	BOULDER, 24" - 36"
	1	TO	SY	CY	EA	EA	EA	EA	EA	EA	CY	EA	EA	EA	EA	EA	EA
	2		17	4	24	38	49	28	60	17	26	4	6	4	1	2	3
			53	3	57	21	36	21	38	8	21	1	4	2		1	0
		TOTALS	70	7	81	59	85	47	98	25	47	5	10	6	1	3	3

DESIGN AGENCY



DESIGNER

NTH

REVIEWER

BMG 08-11-23

PROJECT ID

125940

SHEET

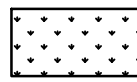
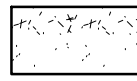
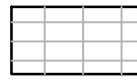








43

TOTAL

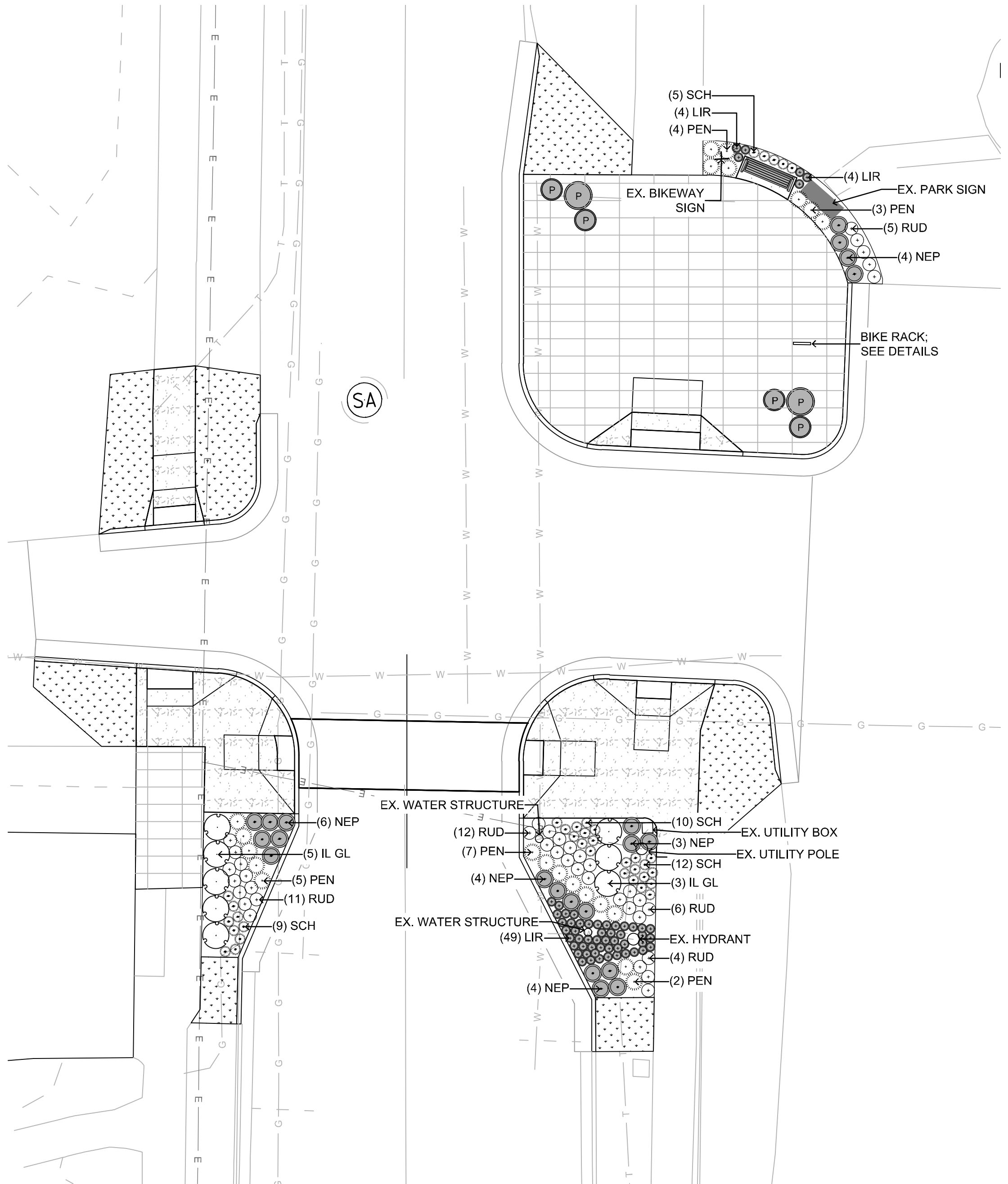
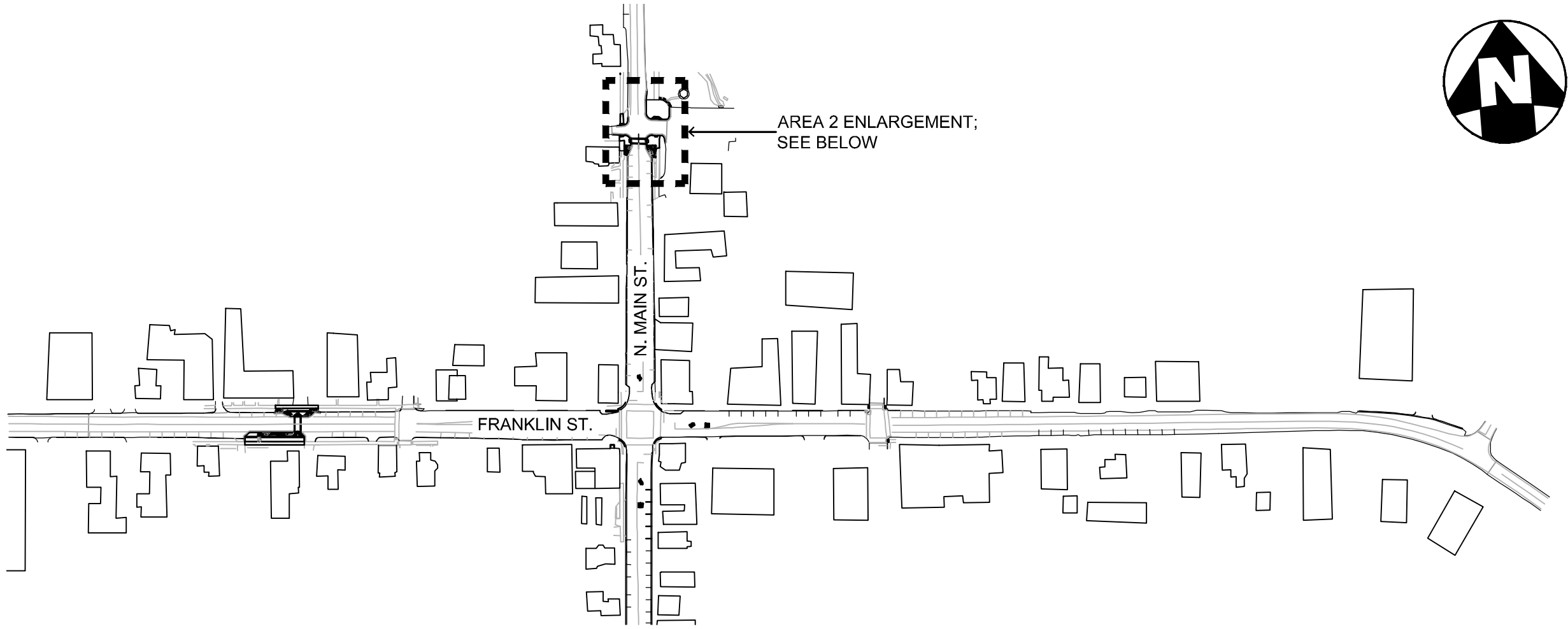
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KEY	ITEM	UNIT	DESCRIPTION	SIZE	QTY.	COMMON NAME	SPACING
	659E10001	SF	SEEDING, AS PER PLAN		620	TURF SEED	
	661E00501	CY	MULCH, AS PER PLAN		3	MULCH	
LIR	661E14001	EACH	PERENNIALS (LIRIOPE MUSCARI), AS PER PLAN	#1 CONT.	57	LIRIOPE	18" O.C.
NEP	661E14001	EACH	PERENNIALS (NEPETA FAASSENII), AS PER PLAN	#1 CONT.	21	CATMINT	24" O.C.
SCH	661E14001	EACH	PERENNIALS (SCHIZACHYRIUM SCOPARIUM), AS PER PLAN	#1 CONT.	36	LITTLE BLUESTEM	24" O.C.
PEN	661E14001	EACH	PERENNIALS (PENNISETUM ALOPECUROIDES 'HAMELN'), AS PER PLAN	#2 CONT.	21	DWARF FOUNTAIN GRASS	24" O.C.
RUD	661E14001	EACH	PERENNIALS (RUDBECKIA FULGIDA 'GOLDSTURM'), AS PER PLAN	#1 CONT.	38	BLACK EYED SUSAN	24" O.C.
IL GL	661E30070	EACH	EVERGREEN SHRUB (ILEX GLABRA 'STRONGBOX'), AS PER PLAN	B&B	8	STRONGBOX INKBERRY HOLLY	36" O.C
	690E98700	CY	BACKFILL MIX		25	BACKFILL MIX	

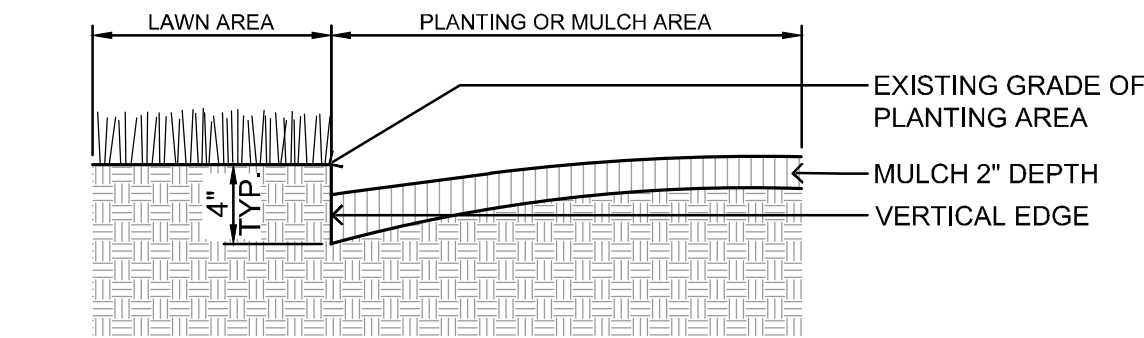
LEGEND

-  TURF SEED
-  CONCRETE, SEE CIVIL DRAWINGS
-  PAVERS, SEE CIVIL DRAWINGS
-  EXISTING TREE TO REMAIN
-  SHRUBS & PERENNIALS, SEE DETAILS 2-5 / SHEET 3
-  PROPOSED LIGHT POLE LOCATION; NOT INSTALLED IN THIS PHASE
-  ITEM 690E98000 SPECIAL - BENCH, SEE DETAIL 4/ SHEET 46
-  ITEM 690E98000 SPECIAL - PLANTER, SEE DETAIL 1/ SHEET 46
-  ITEM 680E14550 SPECIAL - TRASH RECEPTACLE, SEE DETAIL 2/ SHEET 46
-  ITEM 690E50560 SPECIAL - BIKE RACK, SEE DETAIL 3/ SHEET 46
-  ITEM 690E98000 SPECIAL - BOULDER, SEE DETAIL 6/ SHEET 45

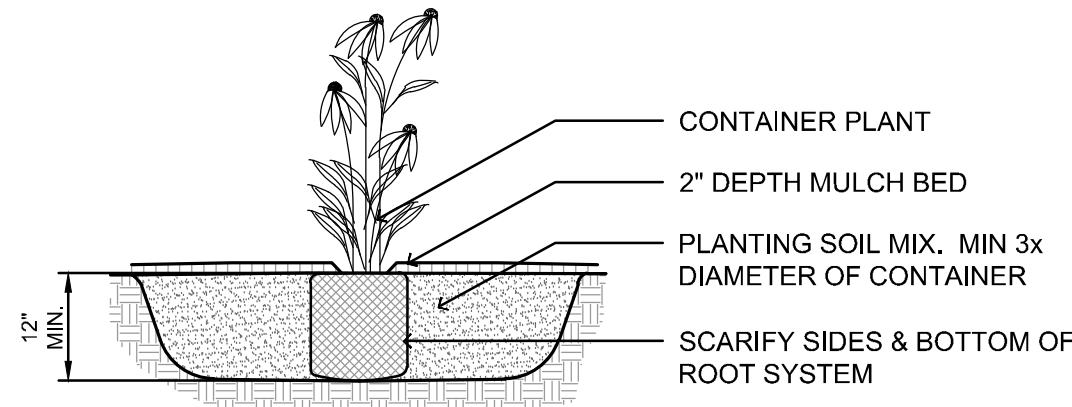
KEY MAP: 1" = 200' - 0"



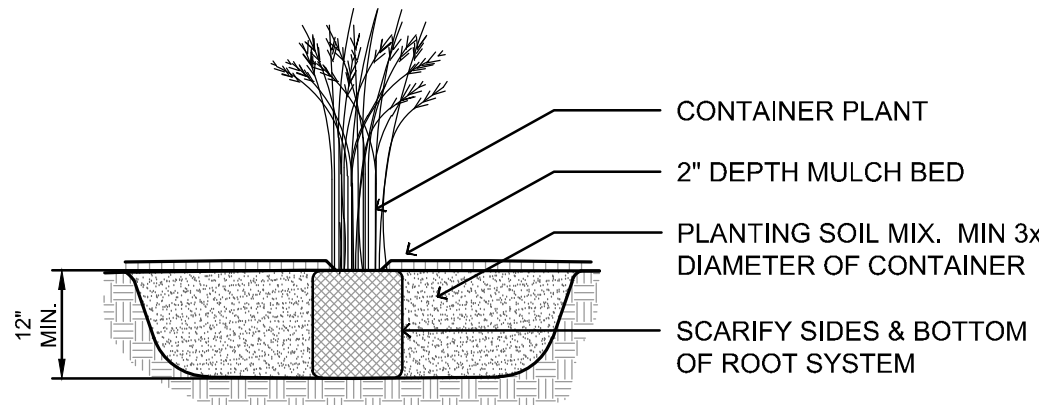
LANDSCAPE & MATERIALS PLAN



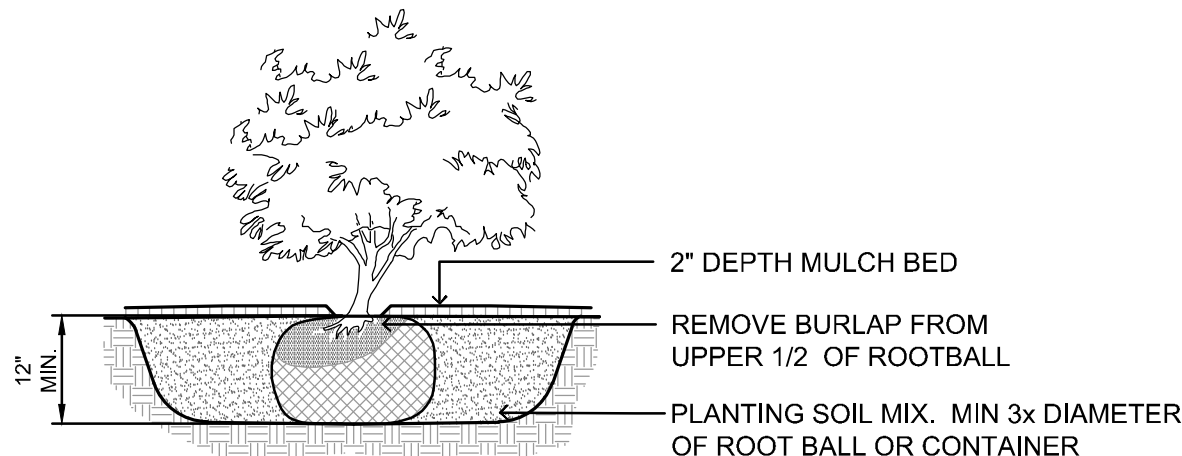
1 PLANTING BED EDGING DETAIL  
N.T.S.



2 PERENNIAL PLANTING  
N.T.S.



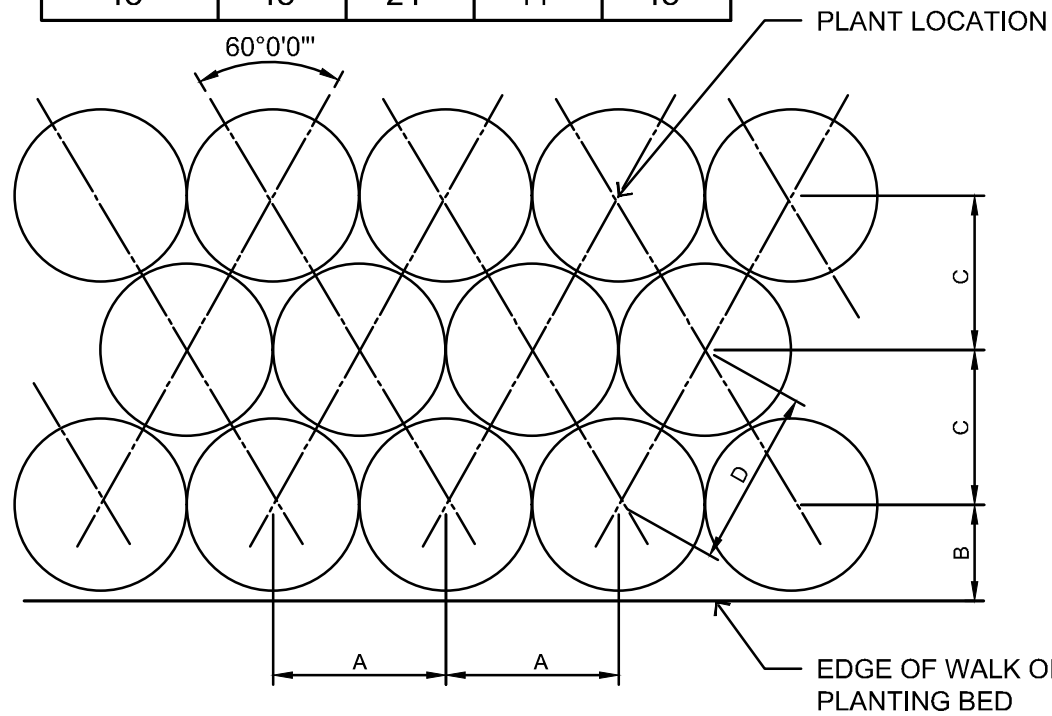
3 ORNAMENTAL GRASS PLANTING  
N.T.S.



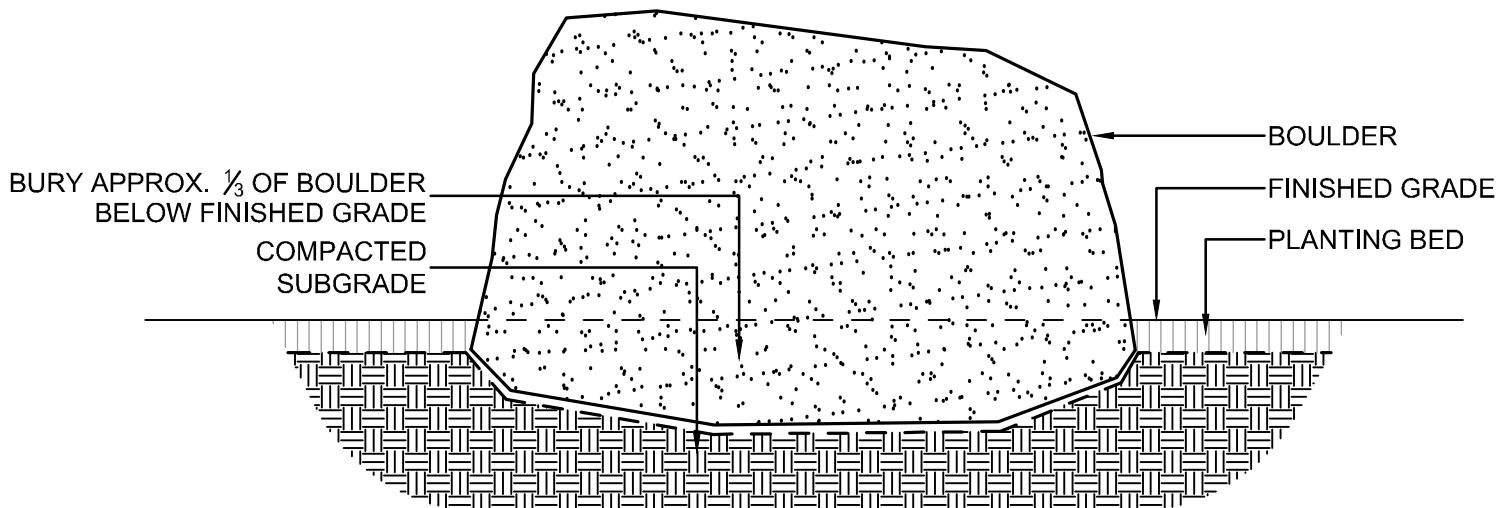
4 SHRUB PLANTING  
N.T.S.

SPACING	A	B	C	D
12"	12"	6"	10"	12"
18"	18"	8"	15"	18"
24"	24"	10"	20"	24"
30"	30"	15"	25"	30"
36"	36"	18"	31"	36"
48"	48"	21"	41"	48"

A = SPACING  
B = SP/2  
C = SP/1.2  
D = SPACING



5 PERENNIAL SPACING  
N.T.S.

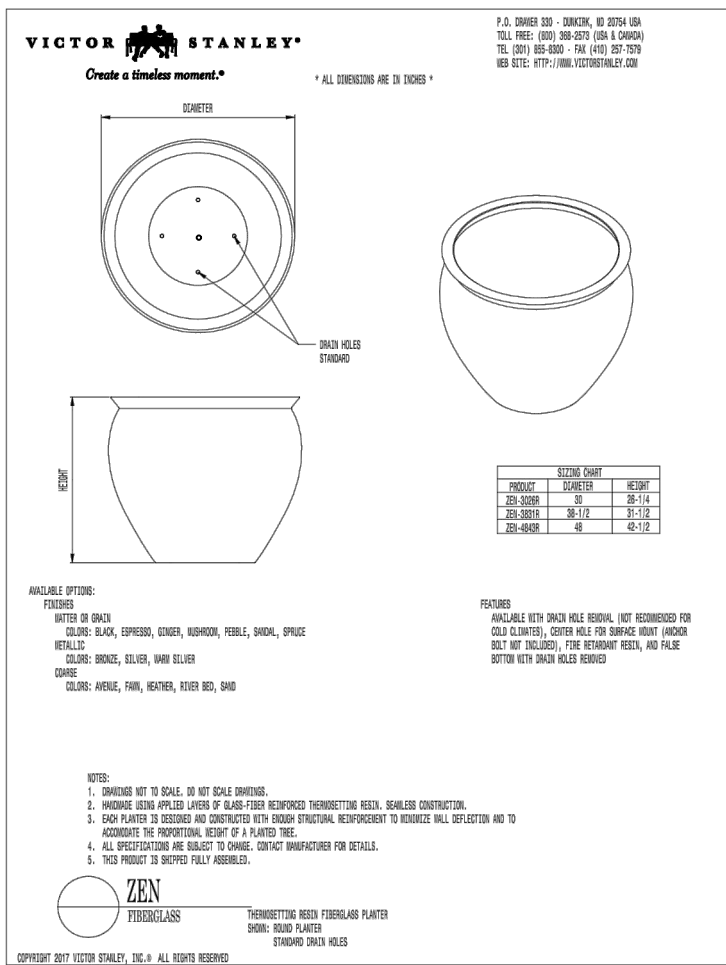


- NOTES:
- BOULDERS SHALL BE LIMESTONE FROM LOCAL SUPPLIER.
  - BOULDER SIZE SHALL RANGE FROM 24" - 36".
  - BOULDERS SHALL HAVE A NATURAL SHAPE.

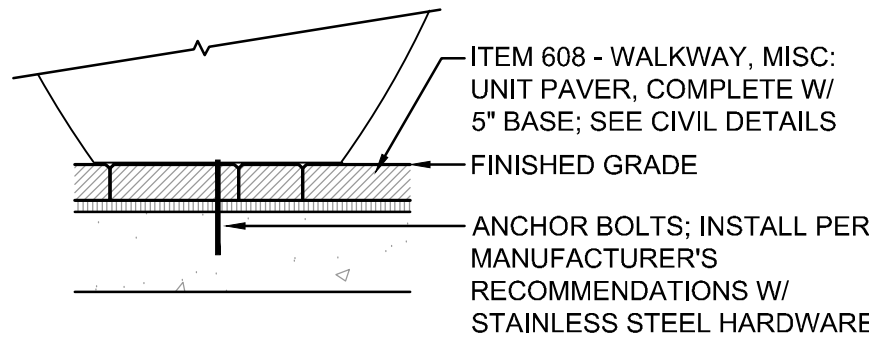
6 LIMESTONE BOULDER  
NTS

- PLANTING NOTES
- EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
  - CONTRACTOR SHALL VERIFY ALL PLANTING CONDITIONS FOR OBSTRUCTIONS, EXISTING TREE CANOPY COVERAGE, AND OVERHEAD ELECTRICAL POWER LINES PRIOR TO PLANTING. IF ADVERSE PLANTING CONDITIONS ARE OBSERVED, CONTACT THE OWNERS REPRESENTATIVE IMMEDIATELY.
  - ALL SHRUB MASSES TO BE INCORPORATED BY A CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. MULCH BEDS TO HAVE A NEAT, EDGED APPEARANCE.
  - SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
  - ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE FINE GRADED AND SEEDED.
  - ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM.
  - THE CONTRACTOR SHALL ENSURE THAT ALL NEWLY PLANTED TREES ARE PERFECTLY ALIGNED AND SET PLUMB WITH PROPER RELATIONSHIP TO THE SURROUNDING GRADE. CONFIRM FINISHED GRADE PRIOR TO PLANTING.
  - ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED. IF SUBSTITUTIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE, THE SIZE AND GRADING STANDARDS SHALL CONFORM TO THOSE OF THE AMERICAN ASSOCIATION OF NURSERYMEN.





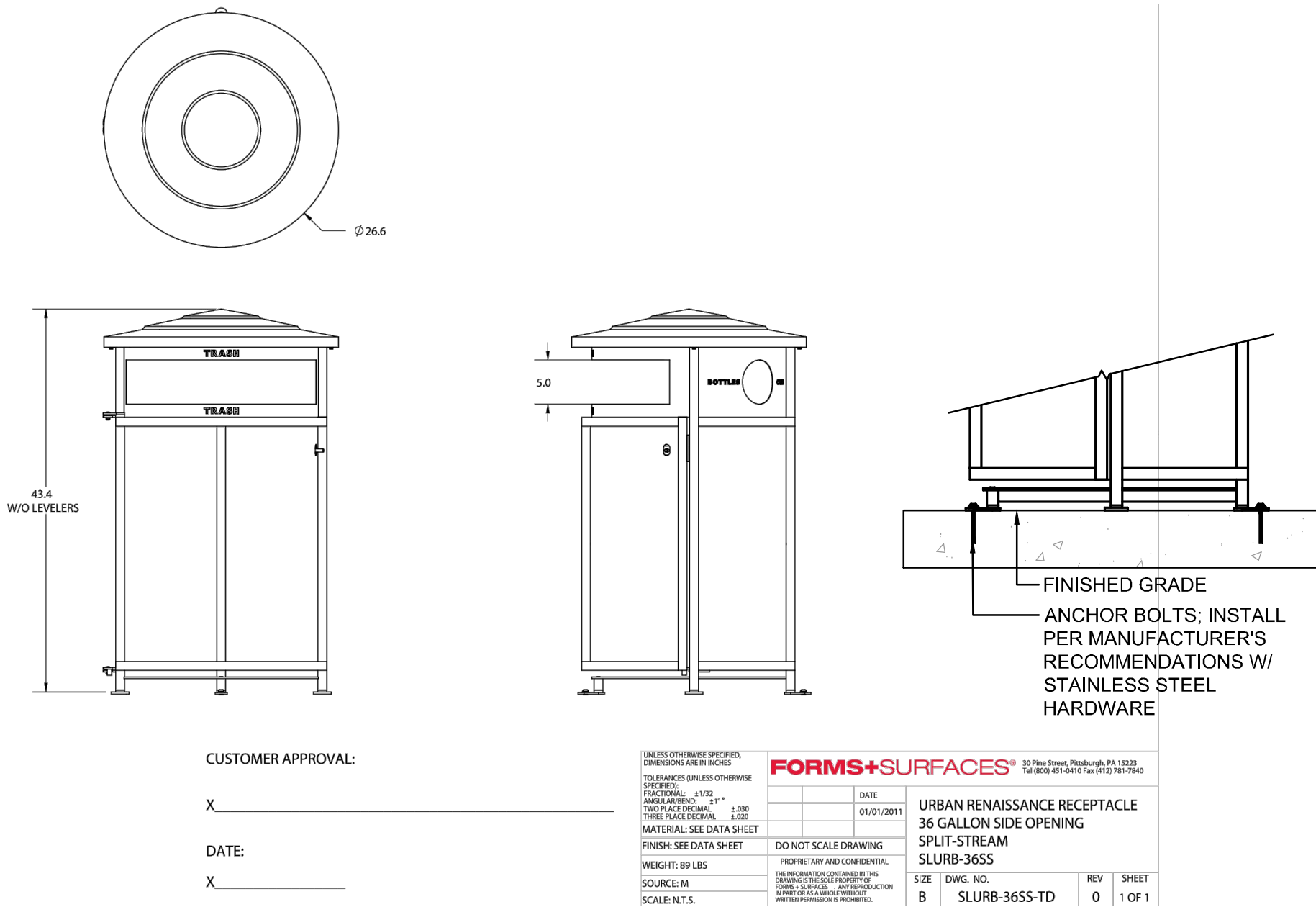
- NOTES:
1. SURFACE MOUNT PLANTER WITH STAINLESS STEEL HARDWARE. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO ATTACH INTO CONCRETE BASE BENEATH UNIT PAVERS.



**PLANTER**

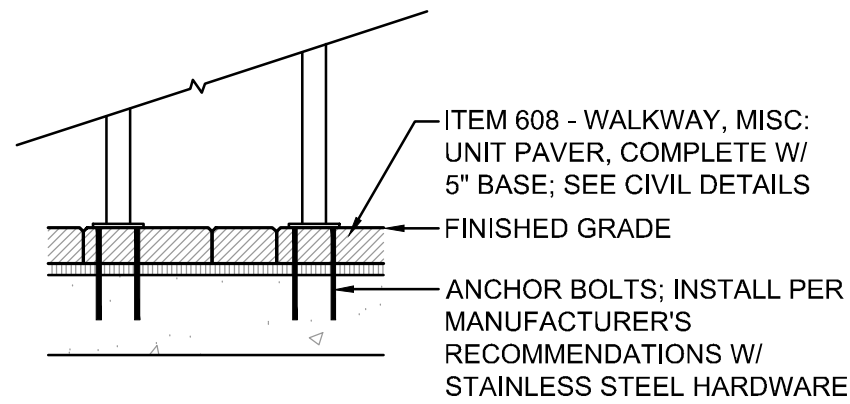
ZEN FIBERGLASS PLANTER  
MODEL: ZEN-2418R, ZEN-3831R  
FINISH: GRAY  
COLOR: SANDAL  
FEATURES: CENTER HOLE FOR SURFACE MOUNT  
VICTOR STANLEY  
2103 DUNKIRK, MD 20754  
800.368.2573

① ITEM 690 SPECIAL - PLANTER  
N.T.S.



② ITEM 680 SPECIAL - TRASH RECEPTACLE  
N.T.S.

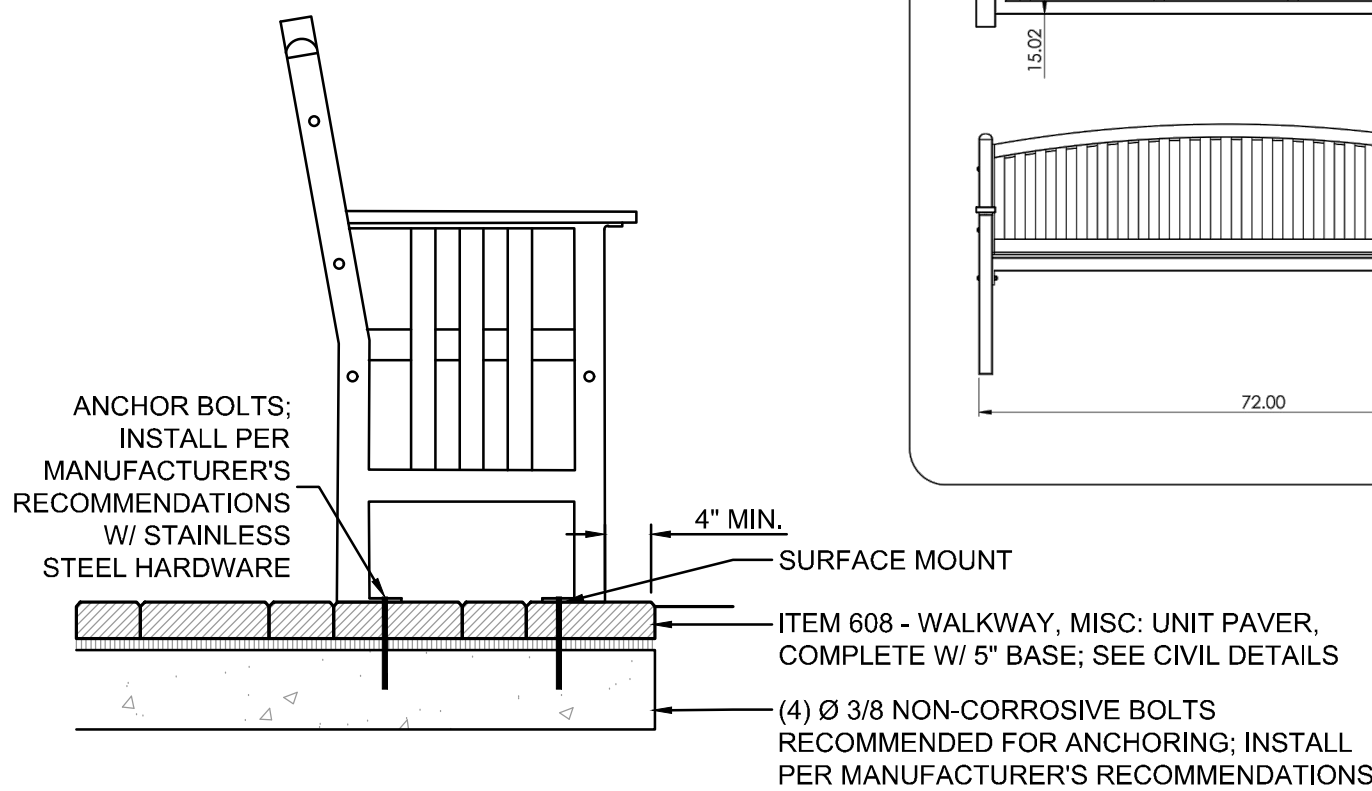
- NOTES:
1. SURFACE MOUNT BIKE RACK WITH STAINLESS STEEL HARDWARE. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO ATTACH INTO CONCRETE BASE BENEATH UNIT PAVERS.
  2. EXISTING BIKE RACKS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.



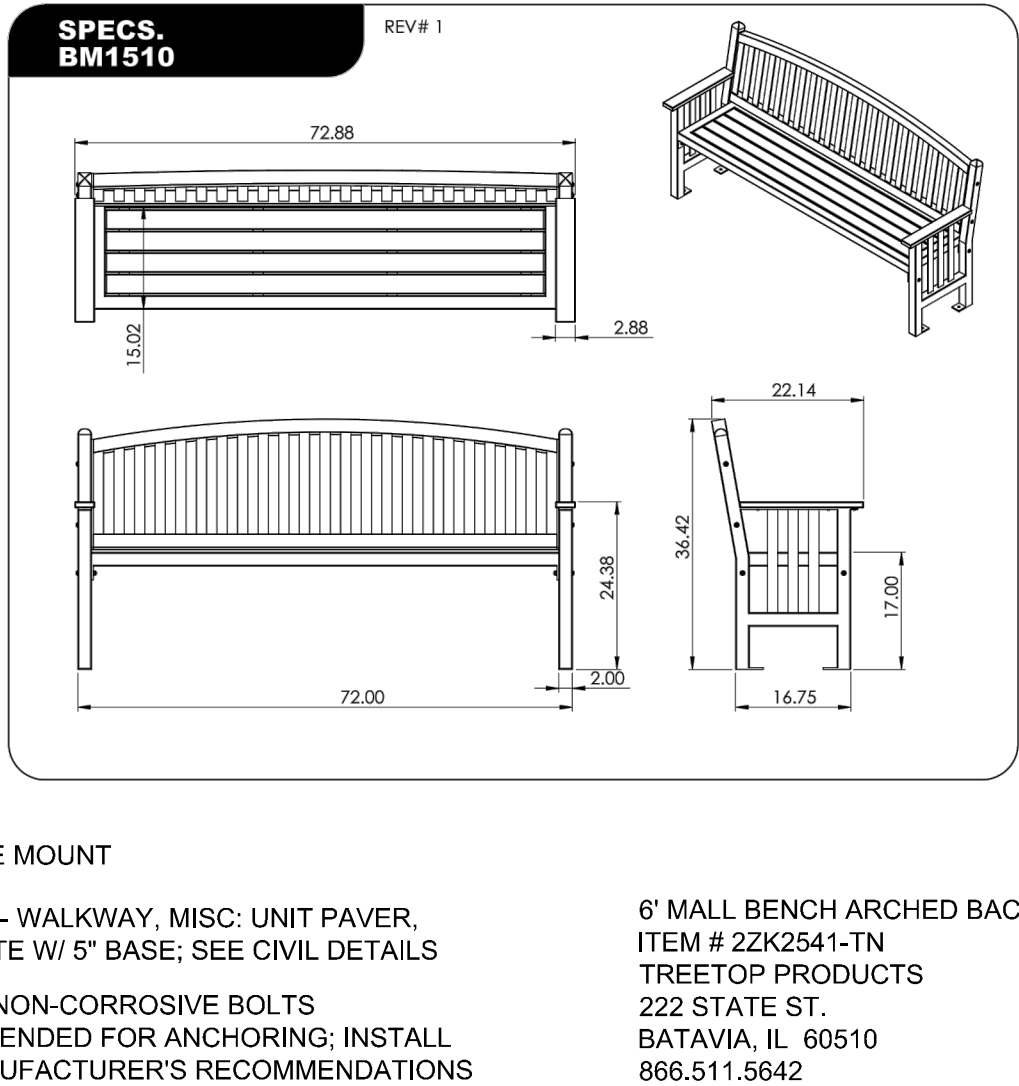
③ ITEM 690 SPECIAL - BICYCLE RACK  
N.T.S.



- NOTES:
1. SURFACE MOUNT BENCHES WITH STAINLESS STEEL HARDWARE. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO ATTACH INTO CONCRETE BASE BENEATH UNIT PAVERS.
  2. TO MATCH EXISTING BENCHES IN DOWNTOWN BELLBROOK



④ ITEM 690 SPECIAL - BENCH  
N.T.S.



DESIGN AGENCY

DESIGNER

NTH

REVIEWER

BMG 08-11-23

PROJECT ID

125940

SHEET

46

TOTAL

47



GENERAL NOTES

1. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
2. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
3. ALL CONCRETE FORMS SHALL BE FIELD STAKED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONCRETE INSTALLATION.
4. ALL HORIZONTAL AND VERTICAL LAYOUT SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE TO ENSURE GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
5. PROVIDE ISOLATION JOINT WHERE CONCRETE PAVING ABUTS BUILDINGS, COLUMNS, AND STRUCTURES. VERIFY COLOR OF SEALANT WITH OWNER'S REPRESENTATIVE.
6. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES, AND PLANS FOR LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES.
8. CONTRACTOR TO REPORT TO ENGINEER ANY ADDITIONAL UTILITY LINES FOUND DURING CONSTRUCTION.

GENERAL REQUIREMENTS

PER JANUARY 1, 2019 ODOT CONSTRUCTION & MATERIAL SPECIFICATIONS MANUAL ALL PLANT MATERIALS, TURF GRASS, AND PLANTING OPERATIONS TO MEET OR EXCEED STANDARDS SET OUT IN ODOT ITEMS 659, 661, & 662, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE AN ONA (OHIO NURSERYMAN'S ASSOCIATION) CERTIFIED LANDSCAPE TECHNICIAN TO SUPERVISE THE PLANTING OPERATIONS.

PERIOD OF ESTABLISHMENT

MAINTENANCE:  
DURING PLANTING: MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR A PERIOD OF ONE YEAR AFTER COMPLETION OF PROJECT. PLANTS SHALL BE WATERED, MULCHED AND PRUNED, WEED GROWTH CONTROLLED, AND OTHERWISE MAINTAINED AS NEEDED DURING THE WARRANTY PERIOD. SETTLED PLANTS SHALL BE RAISED AND STRAIGHTENED. IF STAKING OR GUY WIRES ARE USED, THEY SHALL BE TIGHTENED AND REPAIRED.

WARRANTY:  
THE CONTRACTOR SHALL WARRANTY ALL PLANTS TO BE IN SATISFACTORY GROWING CONDITION AND TO LIVE FOR A PERIOD OF ONE YEAR FROM COMPLETION OF PROJECT. ALL PLANTS INSTALLED PRIOR TO DECEMBER 31ST SHALL BE GUARANTEED TO BREAK INTO GROWTH (NOT JUST BUD BREAK) AND 2ND SPRING. PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION WILL BE REPLACED AS MANY TIMES AS NECESSARY DURING THE ONE YEAR MAINTENANCE BOND. COMPLY WITH ODOT ITEM 661.

ADDITIONALLY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO WATER AND PERFORM ANY MAINTENANCE AS NECESSARY FOR THE CONTINUOUS VIGOR OF THE PLANTS DURING THE WARRANTY PERIOD. THE COST OF WATERING AND MAINTENANCE WILL BE AT THE SOLE COST OF THE CONTRACTOR. CONTRACTOR MUST COORDINATE WITH THE CITY AS NECESSARY FOR TRAFFIC CONTROL, AS NEEDED.

IN ORDER TO PROVIDE PLANT MATERIALS THAT MEET THE SOIL AND CLIMATE CONDITIONS OF BEAVERCREEK, OHIO, THEY MUST BE OBTAINED FROM SOUTHWEST/SOUTH CENTRAL OHIO. TREES OF THE SAME SPECIES SHALL BE PURCHASED FROM THE SAME NURSERY SO AS TO PROVIDE UNIFORMITY AMONG EACH SPECIES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN THE CONSTRUCTION SITE AFTER EACH DAY OF WORK. PRIVATE LOTS SHALL BE FREE OF ANY DEBRIS, SAFETY HAZARDS, AND/OR OBSTRUCTIONS. IF A TREE PIT IS UNPROTECTED, IT SHALL HAVE FENCE PROTECTION TO PREVENT INJURY. SIDEWALKS AND STREETS SHALL BE FREE OF ANY DEBRIS, ROCKS, LOOSE MATERIAL AND OBSTRUCTIONS AT ALL TIMES. AT THE TIME OF FINAL COMPLETION, CONTRACTOR MUST CLEAN ALL ROADS, SIDEWALKS, AND PRIVATE LOTS PER THE CITY'S DIRECTION.

ITEM 690 SPECIAL - BACKFILL MIX

BACKFILL MIX SHALL BE PER TEM 661.09 EXCEPT MODIFIED TO READ:

FOR ALL PLANTINGS, USE BACKFILL MIX CONSISTING OF THE FOLLOWING:

1. PART TOPSOIL PER ITEM 659.05
2. PART SPHAGNUM PEAT MOSS
3. PART EPA RATED CLASS IV COMPOST PER ITEM 659.06

INSTALL BACKFILL MIX TO 12" DEPTH IN ALL PLANT BEDS.

DO NOT USE BACKFILL MIX THAT IS FROZEN OR MUDDY.

PAYMENT FOR BACKFILL MIX AND PLACEMENT OF BACKFILL MIX SHALL BE PAID FOR IN ITEM SPECIAL - BACKFILL MIX.

ITEM 661 PLANTING TREES, SHRUBS, AND VINES

GENERAL PLANTING NOTES

1. LANDSCAPE WATERING PER ODOT ITEM 662 IS CONSIDERED INCIDENTAL TO ODOT ITEM 661 AND MUST BE CONTINUED THROUGH THE ESTABLISHMENT PERIOD AS OUTLINED UNDER ODOT ITEM 661.14. THE COST FOR LANDSCAPE WATERING SHALL BE CONSIDERED INCIDENTAL TO ODOT ITEM 661 AND MUST BE CONTINUED THROUGH THE ESTABLISHMENT PERIOD AS OUTLINED UNDER ODOT ITEM 661.14.
2. CONTRACTOR MUST FOLLOW STANDARD HORTICULTURAL PRACTICES DURING THE PERIOD OF ESTABLISHMENT TO ENSURE THAT ALL THE PLANTS MAINTAIN GROWTH AND VIGOR. THE CONTRACTOR SHALL WATER, RE-MULCH, RE-STAKE AND CULTIVATE / WEED AS NECESSARY.
3. ALL LANDSCAPE BEDS TO RECEIVE A GRANULAR PRE-EMERGENT WEED PREVENTATIVE PRIOR TO MULCHING PER ODOT ITEM 661. (PREEN, TREFLAN, OR ACCEPTED EQUIVALENT)
4. ALL PLANTS ARE TO BE BALLED AND BURLAPPED (B&B) OR IN CONTAINERS AS NOTED IN PLANT SCHEDULE. NO BARE ROOTED OR CONTAINER TREES ARE PERMITTED. SIZES ARE PER OHIO NURSERY ASSOCIATION STANDARDS.
5. PLANT IN ACCORDANCE WITH PLAN NOTE ITEM 661: PLANTING TREES, SHRUBS, AND GROUNDCOVER AS PER PLAN AND ODOT L.A. 1.1 AND LA 1.2 STANDARD CONSTRUCTION DRAWINGS.
6. SIZE OF PIT VARIES WITH SIZE OF ROOT BALL.
7. SPREAD FERTILIZER EVENLY IN SAUCER PRIOR TO PLANTING PER ODOT ITEM 661.
8. ALL PLANT MATERIAL FURNISHED SHALL BE FULL, WELL BRANCHED, WELL PROPORTIONED, AND HAVE A VIGOROUS, WELL DEVELOPED ROOT SYSTEM CAPABLE OF SUSTAINING VIGOROUS GROWTH.
9. ALL TREES AND SHRUBS SHALL BE NO. 1 GRADE PLANTS WITH GROWTH AND BRANCHING HABIT TYPICAL OF THE SPECIES. NO PARK GRADE (NO. 2 OR 3 GRADE) PLANTS WILL BE ACCEPTED.
10. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED.
11. IF SUBSTITUTIONS ARE REQUIRED, ALL SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
12. OBSTRUCTIONS: NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF UNEXPECTED ROCKS OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED DURING EXCAVATION.
13. THE COST FOR ALL FERTILIZER, HERBICIDE, WATERING, AND PLANTS, THAT MUST OCCUR BASED ON NEW PLANTING / CONSTRUCTION SHALL BE INCIDENTAL TO ITEM 661 AND 662 LANDSCAPE PLANTINGS AND WATERING.
14. THE CONTRACTOR SHALL CONDUCT WATERING OPERATIONS IN COMPLIANCE WITH ALL PROJECT SPECIFICATIONS AND SHALL PROTECT AGAINST WETTING OF THE PAVEMENT SURFACE.
15. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REP. IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSION GIVEN ON THE PLANS AND ACTUAL DIMENSIONS IN THE FIELD.
16. REMOVE ALL TWINE, ROPE, BURLAP, AND WIRE FROM TOP HALF OF ROOTBALL.
17. NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF SUBSOIL CONDITIONS EVIDENCE UNEXPECTED WATER SEEPAGE OR RETENTION IN TREE OR SHRUB PIT.
18. ITEM 661.10 B PLANTING BEDS SHALL BE MODIFIED TO READ: ONE MONTH BEFORE CULTIVATION, TREAT ALL PLANTING BEDS THAT ARE TO BE DEVELOPED IN AREAS OF EXISTING TURF WITH PRE-EMERGENT AND POST-EMERGENT TYPE HERBICIDES. USE A STATE-LICENSED PESTICIDE APPLICATOR TO APPLY THE HERBICIDE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. BEFORE PLANTING, TOP DRESS ALL PLANTING BEDS WITH A MINIMUM OF 6 INCHES OF BACKFILL MIX, THEN CULTIVATE IT TO A DEPTH OF 12 INCHES USING A PLOW, DISC, OR ROTO-TILLER.

19. ITEM 661.10 B PLANTING BEDS SHALL BE MODIFIED TO READ: DIMENSIONS AND PLANT LOCATIONS SHALL BE PLACED IN ACCORDANCE WITH THE DETAILS AND LOCATIONS SHOWN ON THE PLANS. IN NO CASE SHALL PROPOSED PLANT BEDS BE LOWER THAN EXISTING GRADES. GRADE ALL PLANT BEDS SMOOTHLY TO DRAIN. CONTRACTOR SHALL NOT REMOVE AND REPLACE EXISTING SOIL, RATHER THE EXISTING SOILS SHALL BE AMENDED FOR PROPER PLANT GROWTH.
20. ITEM 661.10 B PLANTING BEDS SHALL BE MODIFIED TO READ: ALL PLANT BEDS SHALL BE COVERED WITH SHREDDED MULCH CONTINUOUSLY AS A CONTIGUOUS BED AS INDICATED ON THE PLAN. INDIVIDUALLY PLANTED TREES SHALL BE RINGED WITH SHREDDED MULCH RINGS SIZED AS INDICATED ON THE PLAN. MULCH SHALL BE PER ITEM 661.11.
21. ALL ABOVE ITEMS ARE INCIDENTAL TO ODOT 661 ITEM AND SHALL BE CONTINUED THROUGH WARRANTY PERIOD.

PAYMENT:THE COST FOR THESE ITEMS SHALL INCLUDE ALL MATERIALS, EQUIPMENT, COORDINATION, AND LABOR COSTS ASSOCIATED WITH INSTALLING ITEM 661 TREES, SHRUBS, AND VINES AND THE NOTES AND DETAILS.

ITEM 659 SEEDING AND MULCHING, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, MACHINERY, MATERIALS, AND PROCESSES REQUIRED FOR THE PLANTING OF SEEDED AREAS. SEEDING SHALL OCCUR TO THE PROJECT LIMITS SHOWN ON THE PLANS. ALL AREAS DISTURBED BY CONSTRUCTION, SHALL BE RESTORED, FINE GRADED, AND SEEDED. COST FOR DAMAGE RESTORATION OF EXISTING TURF AREAS DURING CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

ITEM SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF ITEM 659 SEEDING AND MULCHING UNLESS OTHERWISE DESCRIBED BELOW:

AREAS WITHIN THE PROJECT AREA THAT WILL BE GRADED AND DISTURBED AREAS TO BE SEEDED WITH THE FOLLOWING SEED MIX. PROVIDE OWNER WITH CERTIFIED SEED MIX LABEL PRIOR TO APPLICATION FOR APPROVAL:

- 80-90% TURF-TYPE TALL FESCUE (3 LB. /1,000 SQ. FT.)
- 5-10% KENTUCKY BLUEGRASS (3 LB. /1,000 SQ. FT.)
- 5-10% PERENNIAL RYEGRASS (2 LB. /1,000 SQ. FT.)

AREAS WITHIN THE PROJECT AREA THAT ARE NOT DISTURBED SHALL BE INTER-SEEDED PER ITEM 659.21 WITH THE SAME MIX.

ALL DESIGNATED TURF AREAS TO BE HYDRO SEEDED WITH A WOOD FIBER MULCH AS NOTED IN ODOT ITEM 659.15

ITEM 650.03 LIME SHALL BE APPLIED PER SPECIFICATION, AND SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.04 COMMERCIAL FERTILIZER SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.05 TOPSOIL SHALL BE INCIDENTAL TO THIS ITEM. ALL AREAS TO BE SEEDED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL.

ITEM 659.17 WATER SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.20 REPAIR SEEDING AND MULCHING SHALL BE INCIDENTAL TO THIS ITEM.

ITEM 659.23 PERFORMANCE: AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 3 BY 3 INCHES.

TEMPORARY COVER:  
AVENA SATIVA / COMMON OAT / 512.00  
LOLIUM MULTIFLORUM / ANNUAL RYE / 240.00

PAYMENT: THE COST OF THESE ITEMS SHALL INCLUDE ALL MATERIALS, EQUIPMENT COORDINATION AND LABOR COSTS ASSOCIATED WITH SUPPLYING AND INSTALLING SEEDING AND MULCHING AS PER PLAN.

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, SEEDING AND MULCHING, AS PER PLAN  
70 SQ. YD.

ITEM 659, WATER

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 661.11 MULCH, AS PER PLAN

THE FOLLOWING REVISIONS TO ODOT 661 SHALL BE APPLICABLE TO THIS PROJECT 661.11 MULCH.

CHANGE THE SECOND SENTENCE IN THE SECOND PARAGRAPH TO READ, "...3-INCH LAYER OF LANDSCAPE MULCH...".

MULCH SHALL BE A FINELY SHREDDED DARK HARDWOOD MULCH. NON-DYED BLACK COLOR. 100% AGED SHREDDED HARDWOOD. TRIPLE GROUND.

ITEM 680 SPECIAL - TRASH RECEPTACLE

TRASH RECEPTACLE WITH DIVIDED TRASH AND RECYCLING OPENINGS. SEE DETAIL 2 / SHEET 4.

MANUFACTURER:  
BASIS OF DESIGN: FORMS+SURFACES;  
MODEL: URBAN RENAISSANCE RECEPTACLE SLURB-36SS

COLOR: BLACK POWDERCOAT FRAME, DESERT TAN RECYCLED PLASTIC.

SURFACE MOUNTING PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO MOUNT INTO CONCRETE BASE BELOW UNIT PAVERS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM SPECIAL - TRASH RECEPTACLE.

ITEM 690 SPECIAL - PLANTER

24" PLANTER (SMALL) & 38.5" PLANTER (LARGE). SEE DETAIL 1 / SHEET 4.

MANUFACTURER:  
BASIS OF DESIGN: VICTOR STANLEY  
MODEL: ZEN FIBERGLASS PLANTER, ZEN-2418R & ZEN-3831R

SANDAL, GRAIN FINISH

SURFACE MOUNTING PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO MOUNT INTO CONCRETE BASE BELOW UNIT PAVERS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM SPECIAL - PLANTER.

ITEM 690 SPECIAL - BICYCLE RACK

BICYCLE RACKS TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

SURFACE MOUNTING PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO MOUNT INTO CONCRETE BASE BELOW UNIT PAVERS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM SPECIAL - BIKE RACK.

ITEM 690 SPECIAL - BENCH

BACKED BENCH WITHOUT INTERMEDIATE ARMS OR DIVIDERS. SEE DETAIL 4 / SHEET 4.

MANUFACTURER:  
TREETOP PRODUCTS  
222 STATE ST.  
BATAVIA, IL 60510  
866.511.5642  
MODEL: 6' MALL BENCH ARCHED BACK  
ITEM # 22K2541-TN

DIMENSIONS:  
1. DEPTH: 22".  
2. OVERALL HEIGHT: 36".  
3. ARM HEIGHT: 24".  
4. LENGTH: 72".

SEAT PATTERN: SLAT.

COLOR: BLACK POWDERCOAT FRAME, DESERT TAN RECYCLED PLASTIC.

SURFACE MOUNTING PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANCHORS OF SUFFICIENT LENGTH TO MOUNT INTO CONCRETE BASE BELOW UNIT PAVERS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM SPECIAL - BENCH.

DESIGN AGENCY

DESIGNER  
NTH

REVIEWER  
BMG 08-11-23

PROJECT ID  
125940

SHEET	TOTAL
46	47