



City of Bellbrook

15 East Franklin Street

Bellbrook, Ohio 45305

T (937) 848-4666

F (937) 848-5190

www.cityofbellbrook.org

REQUEST FOR PROPOSALS

And

INSTRUCTIONS

RFP 2023-01

City of Bellbrook

Franklin and Main Street Improvements

The City of Bellbrook, a municipal corporation, is seeking bids from qualified firms for the construction of mid-block crosswalks, repaving, curbing, landscape and all other necessary appurtenances to the Franklin and Main Street area of Downtown Bellbrook.

Attached to this RFP are the listed Instructions for Bidders/Offerors in the first ten (10) pages of this document. All potential bidders must thoroughly review and certify their understanding of the Instructions and this RFP process.


GENERAL INSTRUCTIONS TO BIDDERS/OFFERORS

For the purposes of this Document, the terms “Bid” and Proposal” have the same meaning, and the terms “Bidder, Offeror, Contractor, Vendor” are intended to mean the company or firm who is the respondent Bidder for this RFP.

- 🌿 The following instructions are to be considered an integral part of this proposal. Unless otherwise requested, three (3) complete copies of the written proposal need be submitted. The person signing the bid/proposal form must initial any changes or corrections made to this proposal.
- 🌿 No proposal may be withdrawn or modified in any way after the bid/proposal-opening deadline. **Quotes must remain valid for ninety (90) days after the quote date.** Quotes submitted with a less than ninety (90) day validity will be found non-responsive and will not be considered.
- 🌿 All bids/proposals must be a final cost.
- 🌿 Bids/Proposals will be received no later than **4:00pm September 29, 2023** at the City of Bellbrook 15 E. Franklin Street Bellbrook, Ohio 45305 at which time they will be opened and publicly read aloud. Bids/proposals received after the above date and time, or in any other location other than the City of Bellbrook City Hall as noted above will not be considered.
- 🌿 A Request for Proposal packet may be obtained from the City of Bellbrook 15 E. Franklin Street Bellbrook, Ohio 45305 or from www.cityofbellbrook.org
- 🌿 A Pre-Bid/Proposal meeting may be scheduled upon request at City Hall for the City of Bellbrook 15 E. Franklin Street Bellbrook, Ohio 45305, and a site visit will be available on request.
- 🌿 If descriptive literature is attached to the bid/proposal, bidder’s name must appear on all sheets.
- 🌿 A cover letter must be attached in the form of a standard business letter containing the Contractor’s name, address and telephone number and must be signed with an original signature, in ink, by an individual authorized to legally bind the Contractor. The letter must contain the following information:
 - A statement describing the Contractor’s legal structure (e.g. corporation, partnership) and providing federal tax identification number and principle place of business.
 - A statement that the person signing the quote certifies that he or she is the person in the Contractor’s organization who has actual authority to make decisions as to matters relating to this RFP and to bind the Contractor.
 - A statement that the quote meets the minimum qualifications set forth

in this RFP and accepts all requirements and terms and conditions contained in this RFP.


- A statement that the Contractor does not discriminate in its employment practice with regard to race, color, age, religion, sex, veteran status, sexual preference, national origin, or disability
- A statement that no attempt has been made or will be made by the Contractor to induce any other person or firm to submit or not submit a quote.
- A statement that indicates whether the Contractor or any of its agents has a possible conflict of interest with any city employee involved in the RFP and any ensuing Contract(s) or any other conflict of interest and, if so, an explanation of the conflict must be given.


 **Communication:** If there is any question whatsoever regarding any portion of the instructions or specifications, it shall be the bidder's responsibility to seek clarification immediately from the City of Bellbrook **No later than close of business on September 27, 2023** unless otherwise stated in the documents.


All questions shall be submitted in writing or via e-mail to the attention of Rob Schommer at rob@cityofbellbrook.org If mailed, the address is as follows: City of Bellbrook ATTN: RFP 2023-01, 15 E. Franklin Street Bellbrook, Ohio 45305. Answer(s) to all questions will be answered after the deadline for questions has expired, and posted to the City's web site, if applicable and feasible.

It shall be the bidder's responsibility to check the City's website (www.cityofbellbrook.org) for any and all addendums or modifications.

Under no circumstances should respondents contact City personnel or officials outside of the opportunity provided herein.

 **Proprietary Information:** Any information contained in the RFP response that is proprietary must be clearly designated. Marking of the entire response as proprietary will neither be accepted nor honored. The City cannot guarantee that all such material noted remains proprietary, particularly if it becomes a significant consideration in contract award. Information will be kept confidential only to the extent allowed by Public Records Laws of Ohio.

 Any variation from the specifications must be clearly stated by the bidder in writing and submitted with his/her proposal.

 The apparent silence of any specifications or any supplement specifications to any details or the omission of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail, and that only materials of first quality and correct type, size and design are to be used. All workmanship is to be of first quality. All interpretations of this specification shall be made upon the basis of this statement.

🦉 The following bid shall be awarded to one bidder based on the specifications as provided for in Chapter 240 of the Bellbrook Code of Ordinances so the City can determine the “lowest and/or best bidder”. An award shall be made to one vendor for the total bid. Unit prices and extensions will be verified, and total checked. Unit price extension and net total must be shown. Unit price shall prevail unless otherwise stated in the proposal.

🦉 The process and description for opening, tabulating and awarding responses to RFP/bids is as follows:

(a) In the case of sealed competitive bids, the bids shall be opened and tabulated publicly by the City Manager. An investigation of the responsibility of the bidders and the responsiveness of the bid shall be made as the City Manager deems necessary. The City Manager shall determine the lowest and/or best bidder. The City may reject all bids if it determines that it is in the best interest of the City to do so.

(b) In the case of competitive proposals, the responses shall be opened publicly by the City Manager. The City may discuss the responses with the proposers to clarify responses and to obtain information needed by the City to determine the lowest and/or best proposal. An investigation of the responsibility of the proposers and the responsiveness of the proposal shall be made as the City Manager deems necessary. The City Manager shall determine the lowest and/or best proposal. The City may reject all proposals if it determines that it is in the best interest of the City to do so.

(c) In the case of two-step competitive proposals (RFQ/RFP), the technical responses shall be opened publicly by the City Manager. The City may discuss the responses with the proposers to clarify responses and to obtain information needed by the City to determine qualified proposers. An investigation of the responsibility of the proposers and the responsiveness of the proposal shall be made as the City Manager deems necessary.

The City Manager shall determine the qualified proposers. The qualified proposers shall then be invited to submit price proposals which shall be opened publicly by the City Manager. The City may discuss responses with the proposers to clarify responses and to obtain information needed by the City to determine the lowest and/or best proposal. If appropriate, the City may request best and final offers. The City Manager shall then determine the lowest and best proposal. The City may reject all proposals if it determines that is in the best interest of the City to do so.

🦉 *The City of Bellbrook reserves the right to accept, reject or waive any irregularities in the proposal and/or any and all bids received for the work contemplated herein and to accept or reject any or all proposals and/or bids. The proposal and/or bids will be compared on the basis of the total cost of the project and the award will be made to the lowest and/or best bidder (or bidders), provided the proposal and/or bid is reasonable and is in the best interest of the City (owner) to accept. In determining the lowest and best bid the City (owner), in its sole discretion, may consider factors, including but not limited to, the bidder’s work history, (including work done under other names), experience,*

conduct and performance on previous contracts, management skills, ability to execute the contract properly, customer satisfaction, work on comparable projects, ability to timely complete the work in accordance with the contract documents, the Bidder's financial condition and facilities, and the Bidder's compliance with federal, state, and local laws, rules, and regulations, (including but not limited to the Prevailing Wage Laws, Occupational Safety and Health Act, and the State of Ohio's Equal Employment Opportunity Commission requirements, as may be applicable).

👉 The City desires delivery of the material or services specified at the earliest possible time after the date of award. An unreasonable delivery proposal may be cause for disqualifying a bid. Each bidder shall state a definite time and avoid using terms such as "ASAP" or "approximately so many days".

👉 **Insurance:** The Contractor will maintain the following insurance from insurer(s) rated A- or better by A.M. Best in amounts sufficient to protect the Contractor and Owner from claims under Workers Compensation Acts and any other claims for property damage and/or bodily injury, including death, which may arise from the performance of the Work under this Subcontract, whether the Work is performed by the Subcontractor, its subcontractor, or anyone directly or indirectly employed by either of them.

Limits of coverage to be as follows:

(a)	Workers' Compensation Employers Liability/Ohio Stop Gap	Statutory \$ 1,000,000
(b)	Commercial General Liability: Bodily injury/property damage per occurrence General Aggregate Products/Completed Operations Aggregate	 \$ 1,000,000 \$ 2,000,000 \$ 2,000,000
(c)	Commercial Automobile Liability: Combined Single Limit (including Owned, Hired, and Non-Owned Autos)	 \$1,000,000
(d)	Excess/Umbrella Liability (over Employer's Liability, General Liability, and Auto)	 \$ 1,000,000


Liability policy requirements. The General Liability policy must be written on the current edition of ISO form CG 00 01 or equivalent. The policy shall have no modifications limiting coverage for contractual liability, damage to work performed by subcontractors, residential construction, earth movement, explosion, collapse, or underground damage. The policy shall be endorsed to provide that the General Aggregate Limit applies separately to each of the insured Contractor's projects. The Owner (including its officers, directors and employees) shall be named as Additional Insured on the General Liability policy on ISO form CG 20 10 11 85 or its equivalent, affording coverage to Additional


Insured(s) for claims arising out of both ongoing and completed operations. Owner shall also receive coverage as an additional insured Contractor's Auto Liability policy. Contractor's policies shall be primary insurance as respects Owner, and any other insurance policy that Owner may have in effect shall be deemed excess and not contributory. The General Liability policy affording coverage to Owner as Additional Insured must be maintained for three (3) years after completion of the project. If any of the Work is performed by subcontractors, Contractor shall be responsible for ensuring subcontractors comply with these insurance requirements, and extend coverage to both Contractor and Owner as additionally insured.

Installation Floater. Contractor shall purchase and maintain an Installation Floater, covering loss or damage to materials and/or equipment suffered during the course of the Work. This insurance shall include the interests of the Owner, Contractor and any Subcontractors. The policy shall be written on special form and shall cover all materials specified for the job, whether onsite, offsite or in transit.

The Contractor will submit to the Owner certificates of insurance (including a certificate of compliance from the Ohio Bureau of Workers' Compensation for Ohio subcontractors) certifying that the insurance policies required by this agreement are in force and shall be maintained for the duration of the Project. Contractor shall also provide copies of additional insured endorsement(s) as required herein. Full copies of policies shall be provided upon Owner's request. Certificates shall reflect Owner's status as an additional insured and shall provide that Owner is to be provided thirty (30) days advance written notice in the case of cancellation or nonrenewal of the required policies (10 days if cancelled due to nonpayment of premium).

Until said certificate of insurance is properly executed and delivered to the City, the Contractor shall not move its equipment or laborers onto the premises or begin performance of the work specified under an awarded agreement. If the Contractor fails to provide the required insurance, the City of Bellbrook shall have the right to disqualify the Contractor. **Proof of insurance should be included in the submitted bid documents.**

 **References:** Contractor must provide five (5) references of customers with successful implementations of similar size and scope with work performed within the past five (5) years. Please include name, address, contact and phone number. If sub-contractors or business partners will be used in conjunction with the installation or maintenance of this project, please provide references as stipulated above. **References should be included in bid documents**

 **Inspection:** It is understood within this agreement that any problems such as equipment failure, unspecified maintenance, lack of performance and any other conditions outlined in the scope of service not performed by the Contractor will be under immediate review by the City of Bellbrook.

- 👉 **License and Permits:** It shall be the responsibility of the successful bidder to obtain all licenses and permits required to perform this service at no additional cost to the City of Bellbrook.
- 👉 **Timeline:** Provide an estimated, standard timeline for installation, implementation and creative design services. **Timeline should be included in bid documents.**
- 👉 **Configuration and Pricing:** Bidder must itemize all charges for individually identifiable components of the proposed system, including all associated installation, programming and training if applicable. Bidder must include charges for all components required to connect any applicable applications.

RFP Checklist:

Please review and check off these 10 most important items to consider when responding to an RFP for the City of Bellbrook:

	<p>Read the <u>entire</u> document. Note critical items such as: mandatory requirements; supplies/services required; submittal dates; number of copies required for submittal; contract requirements (i.e., contract performance, insurance requirements, performance and/or reporting requirements, etc.).</p>
	<p>Note the procedures for communication with the City during the RFP process. All communication during the RFP process must be in writing. Offerors should not contact City personnel or officials outside of the opportunity provided in the document.</p>
	<p>Attend the pre-proposal conference if one is offered. These conferences provide an opportunity to ask clarifying questions, obtain a better understanding of the project, or to notify the City of any ambiguities, inconsistencies, or errors in the RFP.</p>
	<p>Take advantage of the “question and answer” period. Submit your questions by the due date listed and view the answers given in the formal “addenda” issued for the RFP. All addenda issued for an RFP are posted on the City’s website and will include all questions asked and answered concerning the RFP.</p>
	<p>Follow the format required in the RFP when preparing your response. Provide point-by-point responses to all sections in a clear and concise manner.</p>
	<p>Provide complete answers/descriptions. Read and answer all questions and requirements. Don’t assume the City or the evaluating staff will know what your company capabilities are or what items/services you can provide, even if you have previously contracted with the City of Bellbrook. The proposals are evaluated based solely on the information and materials provided in your response.</p>
	<p>Use the forms provided, if any. e.g., bidders submittal page, reference forms, attachment forms, etc.</p>

	<p>Before submitting your response, check the City's website at: https://www.cityofbellbrook.org/page/Bids to see whether any addenda were issued for the RFP.</p>
	<p>Review and read the RFP document again to make sure that you have addressed all requirements. Your original response and the requested copies must be identical and be complete. The copies are provided to the evaluating staff members and will be used to score your response.</p>
	<p>Submit your response on time. Note all the dates and times listed in the RFP and be sure to submit all required items on time. Late proposal responses are <i>never</i> accepted.</p>

Please Note:

All potential contractors are strongly urged to submit supporting documentation as to their qualifications to perform the Scope of Work.

Certificate of Insurance, Reference List and Timeline must be attached.

If additional comments or conditions are desired, please attach a separate sheet providing details.

Include all proposed equipment specifications; showing manufacturer name, model, etc. depicting unit specifications and other pertinent information.

Certification:

The undersigned on the Bid Proposal certifies that the Instructions to Bidder has been carefully examined, is thoroughly familiar with the terms and specifications applicable to and made part of this Request for Proposal, and understands and is capable of meeting the provisions within to the quality, type and grade of work requested. The undersigned further certifies the prices shown in the schedule of items contained within the Proposal/Bid are in accordance with the conditions, terms and specifications of the proposal and that any exception taken thereto may disqualify the bid.

Signature

Date

Print Name

Title

Email Address

Phone

Company Name

City of Bellbrook Request for Proposals

RFP 2023-01

Advertised as: Franklin and Main Street Improvements

Release Date: August 29, 2023

Closing Date: September 29, 2023

The City of Bellbrook, a municipal corporation, is seeking bids from qualified firms for the construction of mid-block crosswalks, repaving, curbing, landscape and all other necessary appurtenances to the Franklin and Main Street area of Downtown Bellbrook.

1. General Information

- 1.1. The City of Bellbrook invites qualified firms to submit proposals for the construction of mid-block crosswalks, repaving, curbing, landscape and all other necessary appurtenances as designated in the attached project construction documents. Proposals shall be submitted in accordance with the Documents and Requirements as set forth in this formal "Request for Proposals." The Contract that will result from this "Request for Proposals" will include what is indicated in Section 4 "Scope of Work" of this RFP.
- 1.2. A City Review and Selection Committee will evaluate the proposals submitted.
- 1.3. During evaluation, the City Review and Selection Committee reserves the right, where it may serve the City's best interest, to request additional information or clarification from the Offeror, or to allow corrections of errors or omissions. Oral interviews may be conducted by the City Review and Selection Committee for the Contractors who submit a Proposal and were short listed.
- 1.4. Submission of a proposal indicates acceptance by the Offeror of the conditions contained in this Request for Proposals, unless clearly and specifically noted in the proposal submitted and confirmed in the resultant contract between the City of Bellbrook and the Contractor selected.
- 1.5. There is no expressed or implied intent or obligation for the City of Bellbrook to reimburse responding firms for any expenses incurred in preparing proposals, as well as travel expenses during interviews in response to this Request for Proposals.
- 1.6. The City of Bellbrook shall reserve the right to terminate any agreement resultant from this solicitation and subsequent action for cause but not limited to inadequacy of performance.

2. Contact Person/Communication

- 2.1. Until the receipt and opening of proposals, the proposers' principal contact with the City of Bellbrook will be as listed below. All questions are to be submitted in writing and potential Bidders will receive copies of all questions and answers

City of Bellbrook
Request for Proposal Book

except for the questions that are considered proprietary. Questions will only be received through September 27, 2023

Rob Schommer
City of Bellbrook
15 E. Franklin St.
Bellbrook, Ohio 45305
Email: rob@cityofbellbrook.org

2.2. All contacts and communication regarding the proposal should be with the above named individual only. Bidders contacting other City Staff or Officials may be disqualified for doing so.

3. Background Information

3.1. The City of Bellbrook a municipal corporation, is seeking bids from qualified firms for the construction of mid-block crosswalks, paving, curbing, landscaping and all other necessary appurtenances in the Downtown area of Bellbrook. The City has previously commissioned a study to address the Streetscape of the downtown area including an emphasis on walkability and pedestrian safety. This project is designed to be one phase of several projects to fully implement the design and plans of the Streetscape Study.

4. Scope of Work

4.1. The following is a list of provisions and requirements falling under the expected Scope of Work:

- a) Construction of mid-block crosswalks, repaving, curbing, landscaping, hardscaping, and all other necessary appurtenances in accordance to the Construction Documents contained herein as Attachment A

5. RFP Requirements:

5.1. Submitting RFP Proposal packages:

- a) Offeror will submit a comprehensive and thorough written plan for construction of the crosswalks, repaving, curbing, landscaping, etc as detailed in the Construction Documents as referenced in Attachment A. Pricing must be listed on the proposal, and no sales tax should be included.

6. Evaluation of Proposals and Required Information

6.1. Proposals submitted will be evaluated by the City Review and Selection Committee.

6.2. The Committee may call for oral interviews. The City reserves the right to retain all proposals submitted and use and idea in a proposal regardless of whether or not said proposal is selected.

6.3. The evaluation factors considered in the selection process will weigh heavily into the City's decision making process. These evaluation requirements are

considered to be minimum requirements. More points may be awarded for exceeding the minimum requirements.

7. Right to Reject Proposals

- 7.1. Submission of proposals indicates acceptance by the Offering Firm of the Conditions contained in this RFP, unless clearly and specifically noted in the proposal submitted and confirmed in the subsequent Agreement between the City of Bellbrook and the selected firm.
- 7.2. The City of Bellbrook reserves the right to reject any or all proposals and to award to the proposer the City determines to be most qualified and whose award of the contract will be in the best interests of the City.
- 7.3. Late proposals will not be accepted. Offerors are held responsible that their proposals arrive at the City of Bellbrook on or before the designated date and time.

8. Withdrawal of Proposals

- 8.1. Requests to withdraw proposals received after the date and time set for bid opening will not be considered. Only requests to withdraw proposals prior to that date and time will be considered.

9. Contract Termination

- 9.1. The City of Bellbrook reserves the right to terminate any subsequent Agreement or Contract as a result of this RFP if the Contractor does not perform as required by the Terms and Conditions therein.

*** END OF DOCUMENT ***

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>	<u>Extension</u>
<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
------	-----------	--------	----	----------	-------------

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

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.: TRAFFICPATTERNSXD 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	\$1,298.16

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<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
------	-----------	------	----	-------------	-------------

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<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

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
LANDSCAPE SUBTOTAL \$				9,887.50

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
SITE AMENITIES SUBTOTAL \$				27,620.00

SUBTOTAL ± \$ **27,980.00**

**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>	<u>Extension</u>
<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
------	-----------	-------	----	----------	------------

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<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>	<u>Extension</u>
<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

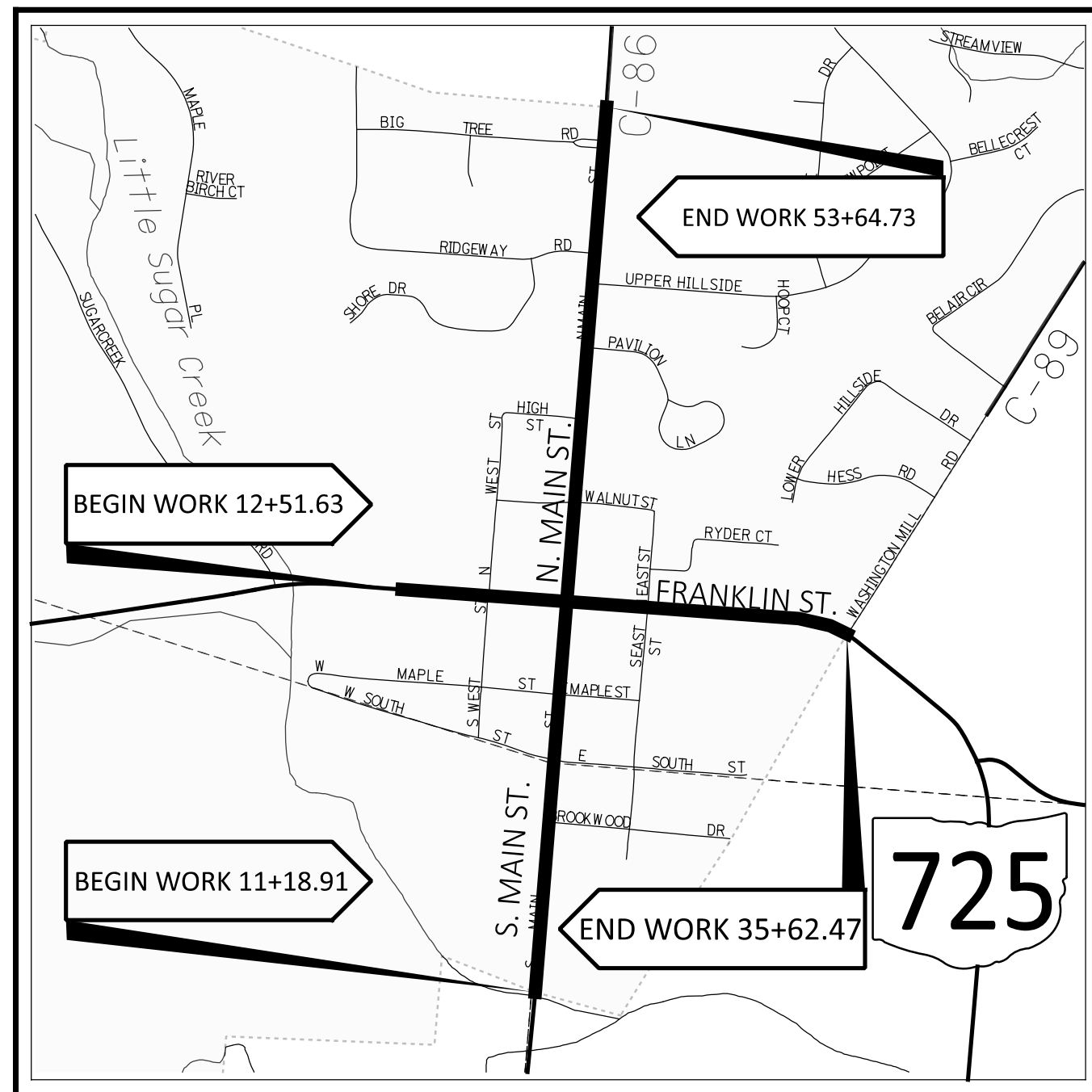


OPINION OF PROBABLE CONSTRUCTION COST
BELLBROOK STREETScape - N. MAIN
DATE: June 25, 2023

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
LANDSCAPE SUBTOTAL					\$ 7,260.00
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
SITE AMENITIES SUBTOTAL					\$ 11,835.00
SUBTOTAL				± \$	19,095.00

**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:

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

© 2023 LJB Inc. All rights reserved. No part of this drawing may be used, reproduced, or modified in any manner without the prior written authorization of LJB Inc. Any such unauthorized use or reproduction of or modification to this drawing is done at the user's own risk and the user agrees to indemnify, defend and hold harmless LJB Inc. from and against any and all claims, liability, and expense, including, but not limited to, reasonable attorney's fees, arising from such use, reproduction or modification.

ENGINEER'S SEAL

SHEETS 1-42

STATE OF OHIO
 BRANT GRESSEL
 E-87761
 REGISTERED PROFESSIONAL ENGINEER

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

TITLE SHEET

DESIGN AGENCY



DESIGNER	DEA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
1	47

PROJECT CONTROL COORDINATES

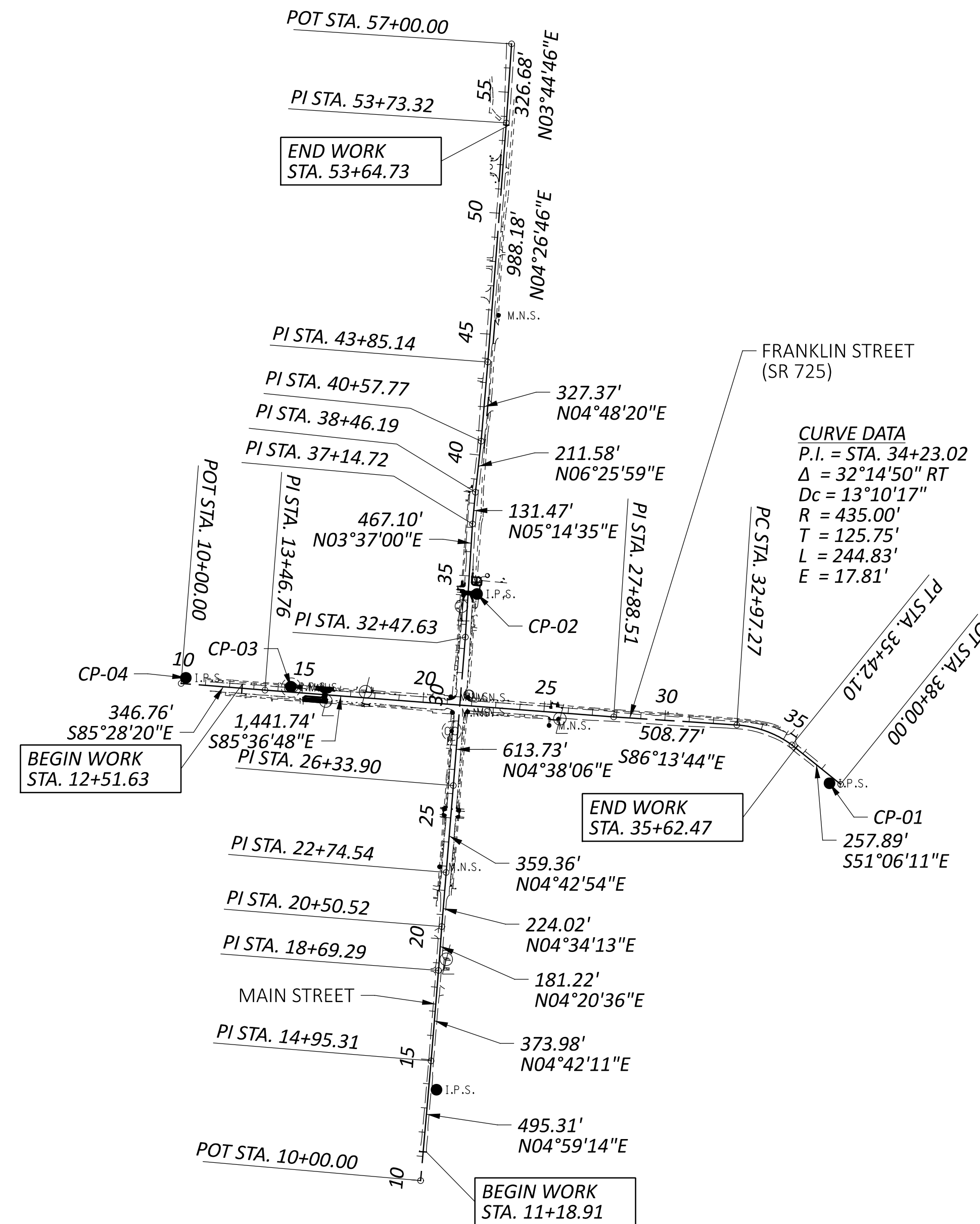
POINT NO.	GRID		GROUND		ELEVATION	DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING		
CP1	599391.20	1527676.12	599391.16	1527676.24	766.55	3"LJB CTRL Disk
CP2	600171.20	1526223.43	600171.23	1526223.43	798.10	3"LJB CTRL Disk
CP3	598128.26	1526056.03	598128.11	1526056.02	772.54	3"LJB CTRL Disk
CP4	599825.69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



SCHEMATIC

DESIGN AGENCY



DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
2	47

LEGEND

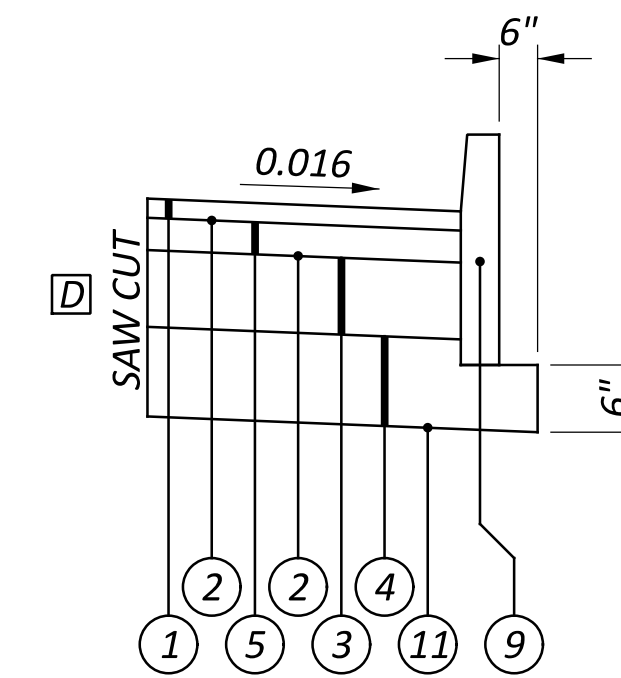
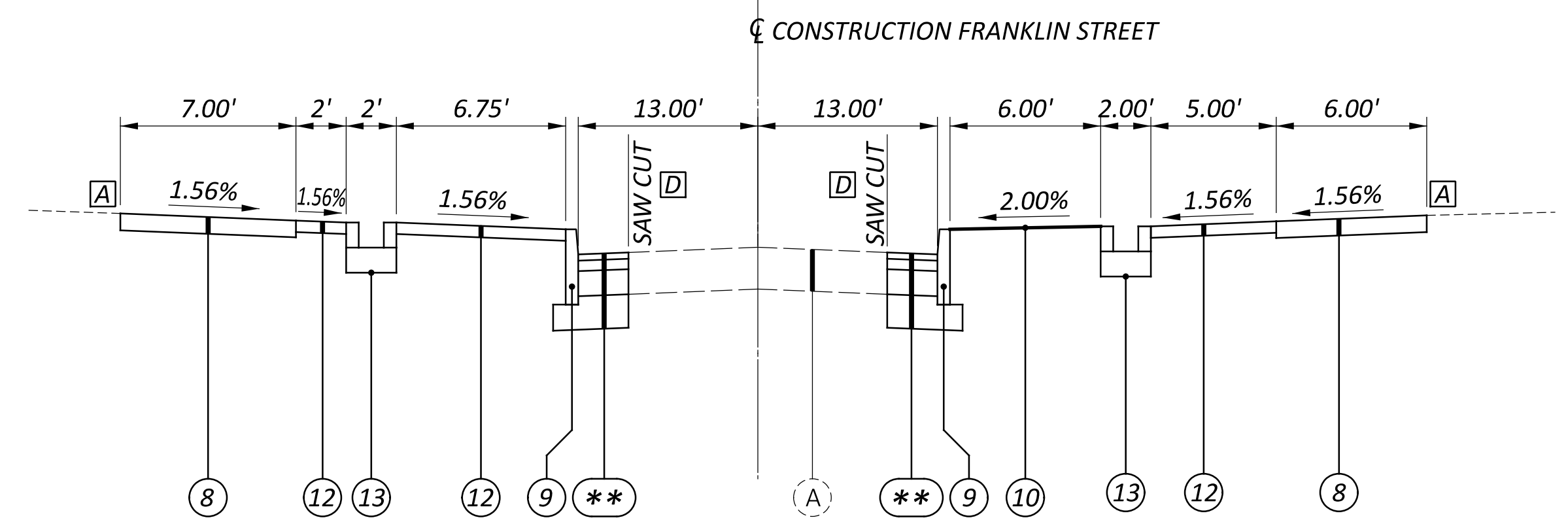
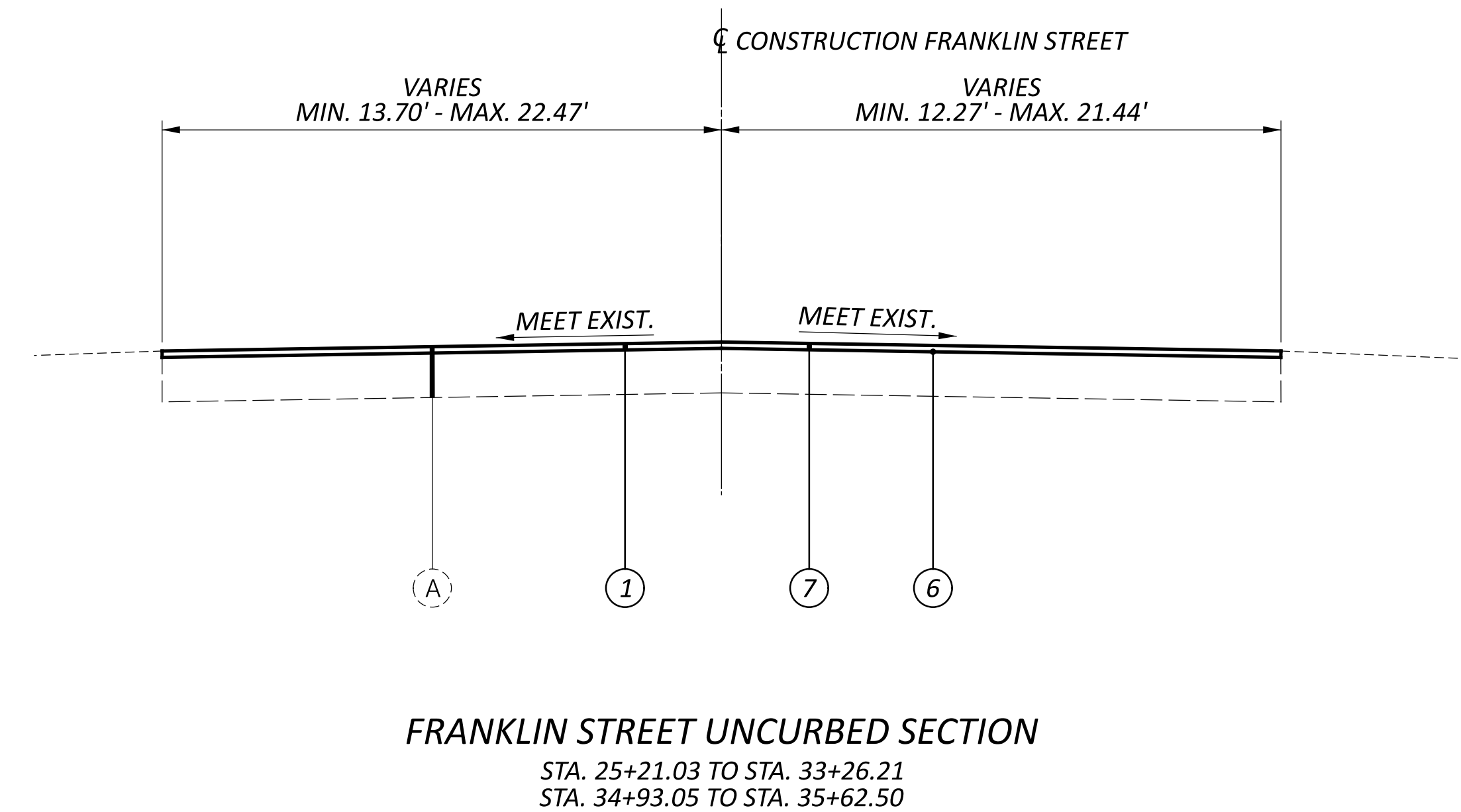
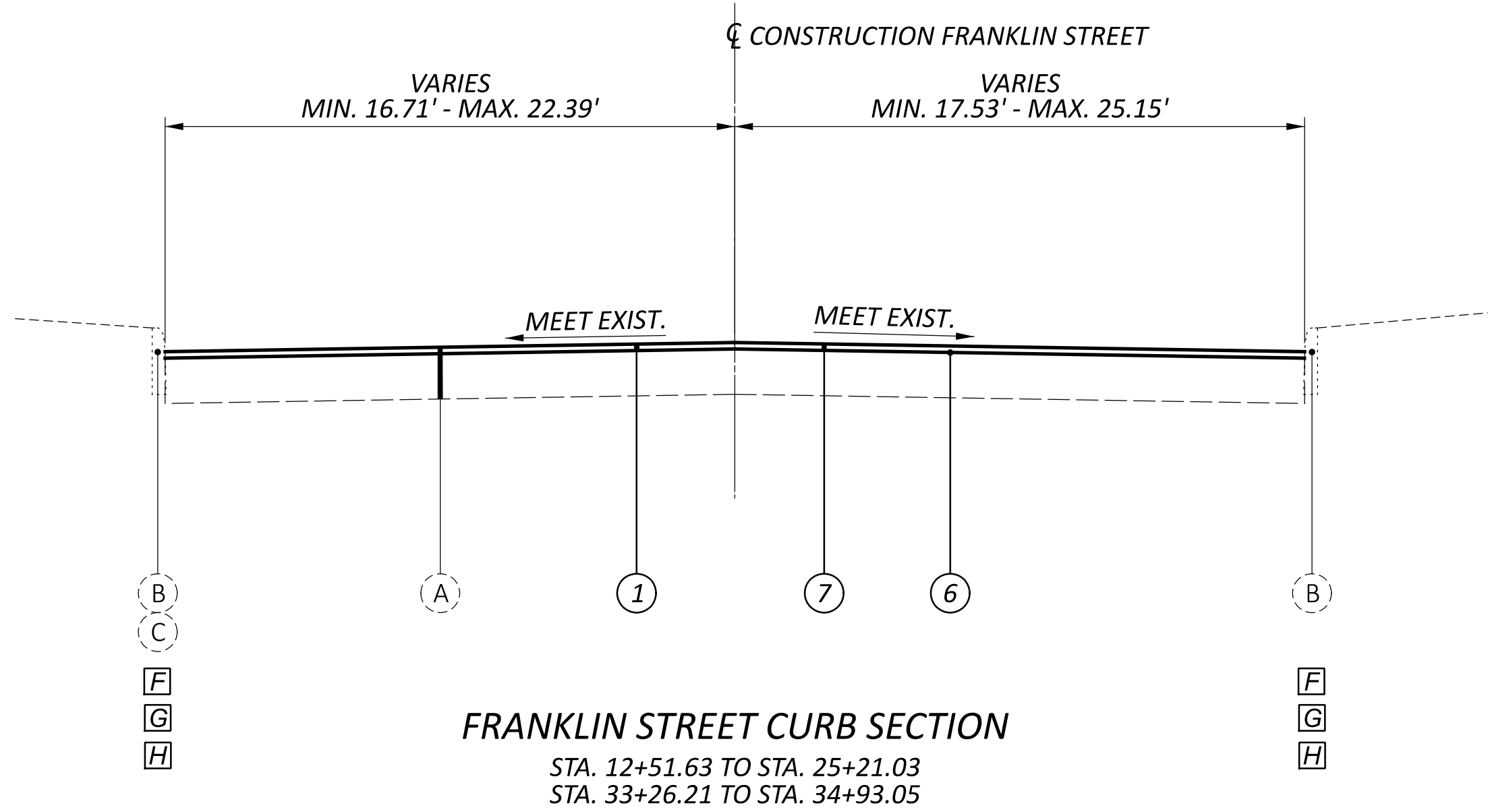
- | | | | |
|---|---|----|--|
| 1 | ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | 8 | ITEM 608 - 4" CONCRETE WALK |
| 2 | ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT 0.055 GAL/SY) | 9 | ITEM 609 - CURB, TYPE 6 |
| 3 | ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22, (449) | 10 | ITEM 659 - SEEDING AND MULCHING |
| 4 | ITEM 304 - 8" AGGREGATE BASE (PLACED IN TWO EQUAL COURSES) | 11 | ITEM 204 - SUBGRADE COMPACTION |
| 5 | ITEM 441 - 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) | 12 | ITEM 608 - WALKWAY, MISC: SIDEWALK PAVERS (SEE GENERAL NOTES, SHEET 5) |
| 6 | ITEM 407 - NON-TRACKING TACK COAT (APPLIED AT 0.085 GAL/SY) | 13 | ITEM 611 - SPECIAL - TRENCH DRAIN (SEE GENERAL NOTES, SHEET 5) |
| 7 | ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2") | | |

- | | |
|---|--------------------------|
| 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 |

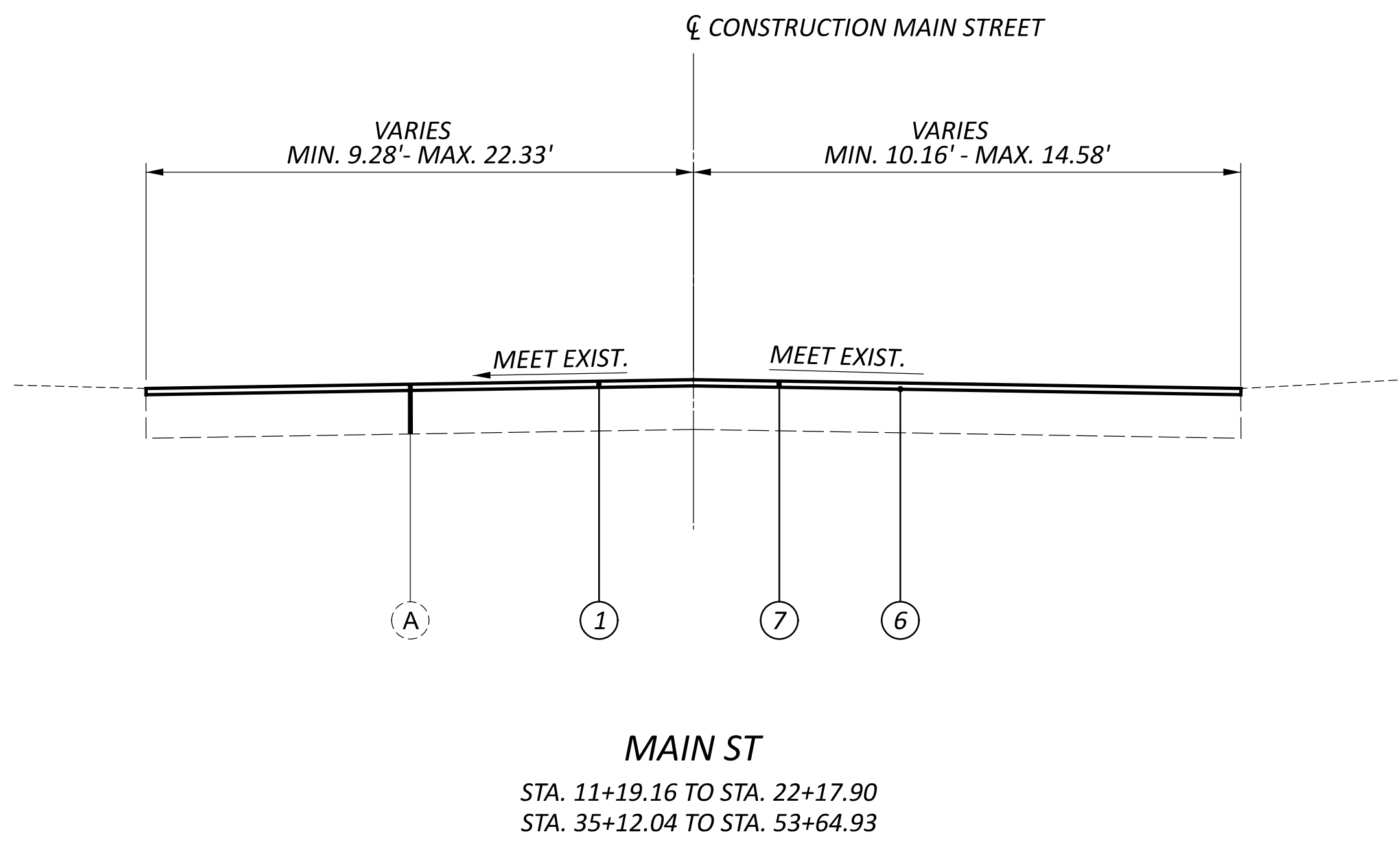
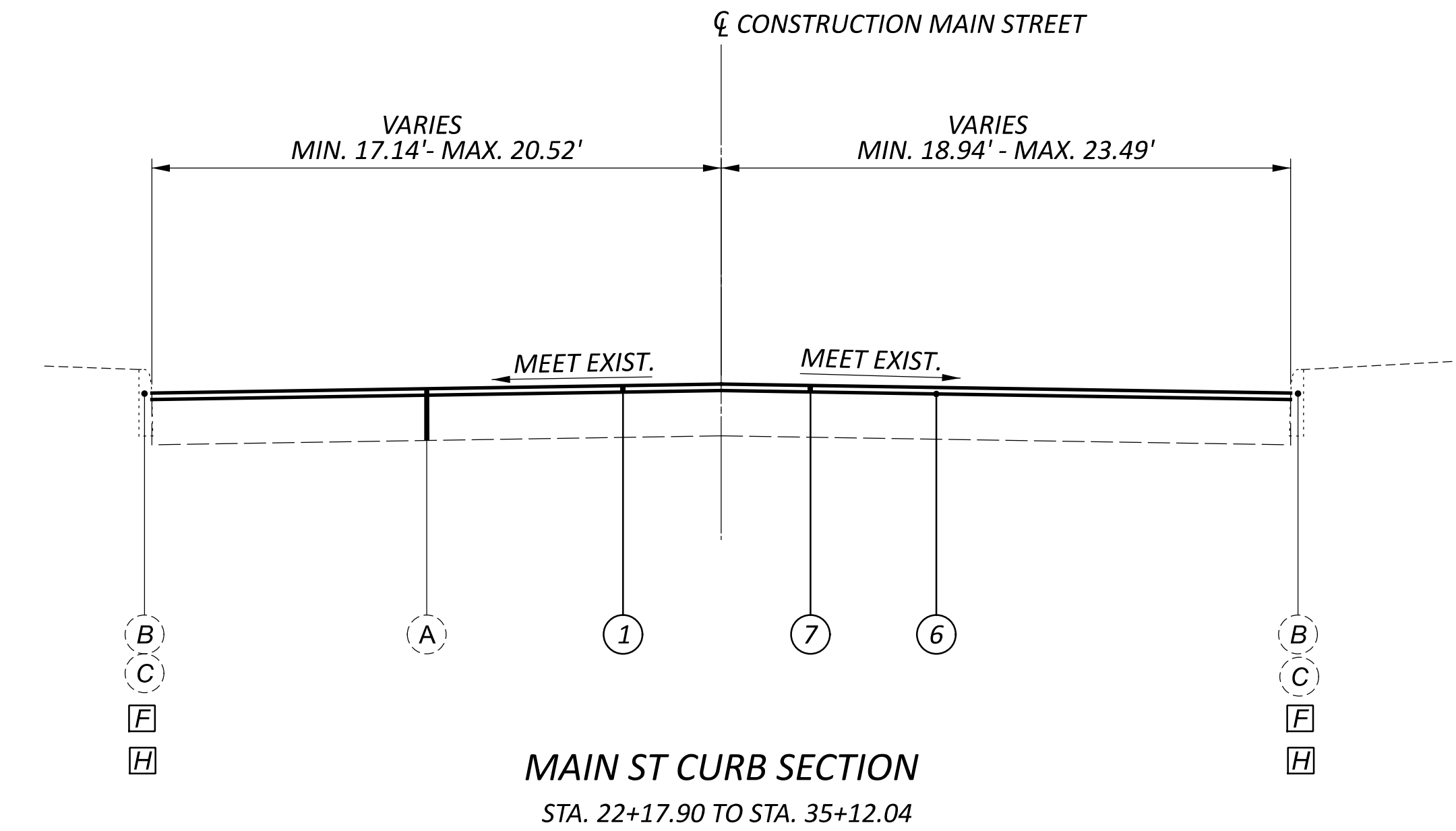


F ASPHALT CURB

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

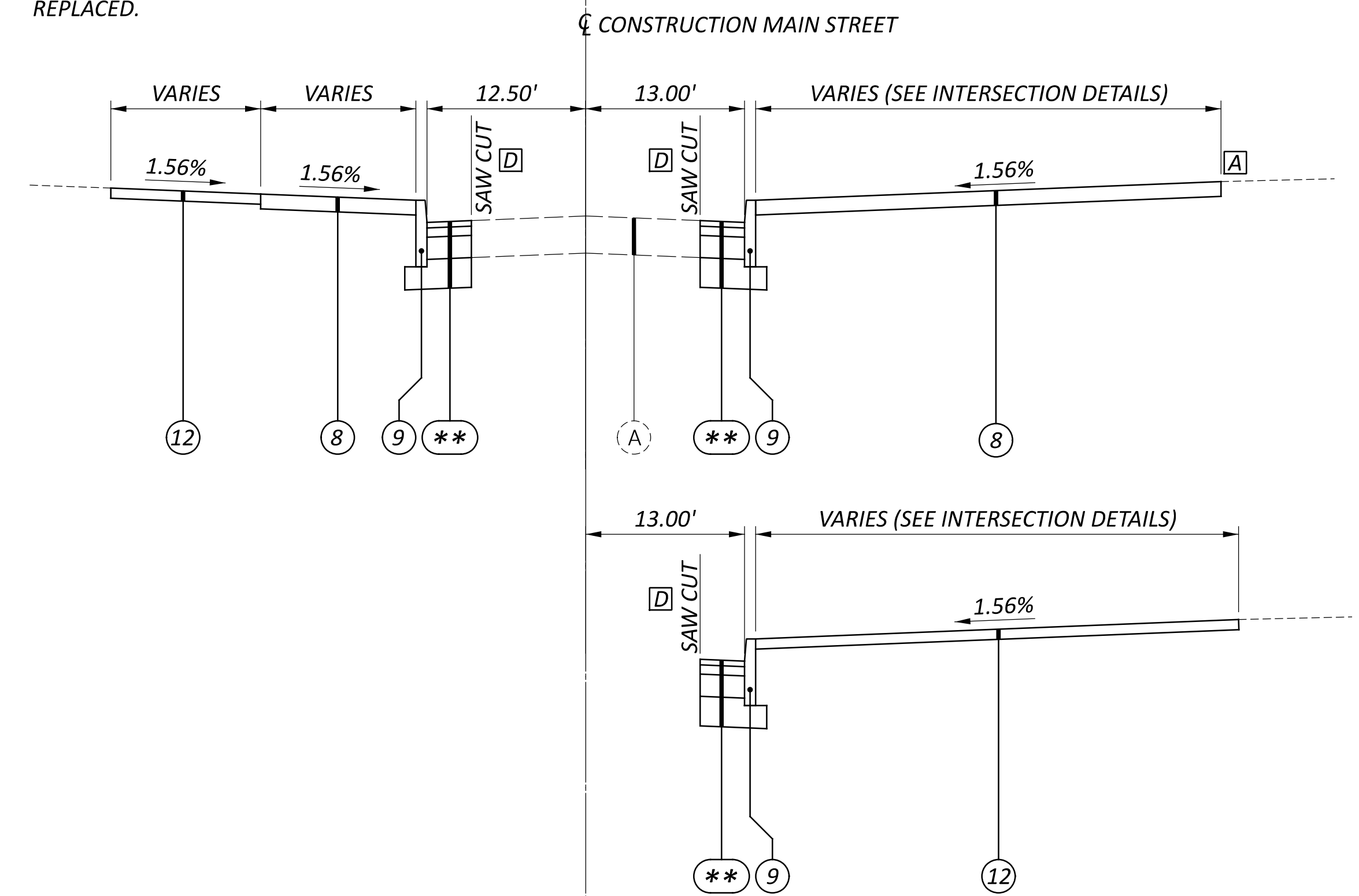
H CURB AND GUTTER

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



TYPICAL SECTIONS

DESIGN AGENCY



DESIGNER

JMD

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET TOTAL

4 47

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@GREENECOUNTYOHI.OV

SANITARY:
GREENE COUNTY SANITARY ENGINEERS
667 DAYTON-XENIA RD.
XENIA, OH 45385
937-562-7461
SED_PED@GREENECOUNTYOHI.OV

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 QUANTITIES 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 2 1/4" 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: ASTM D 1073, NO. 2 OR NO. 3

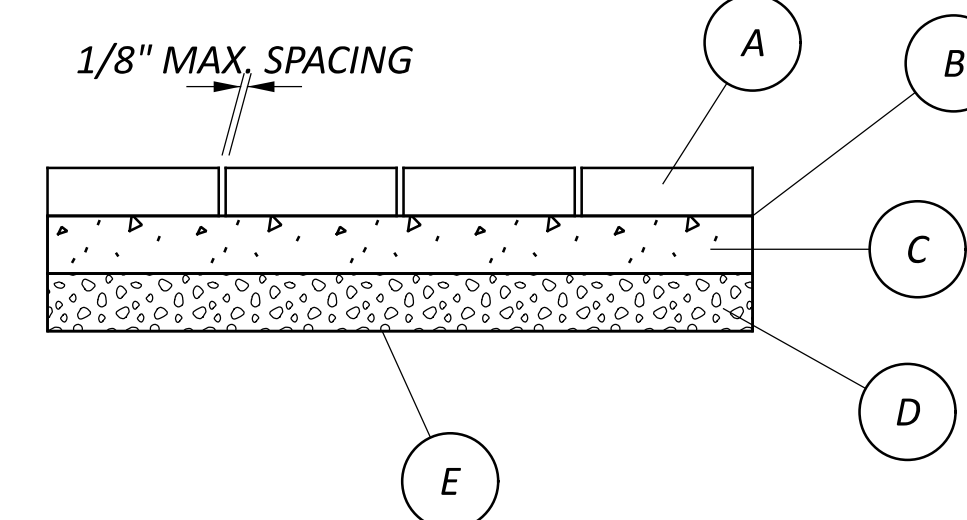
ASPHALT CEMENT: ASTM D 3381/D 3381M, VISCOSITY GRADE AC-10 OR GRADE AC-20

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 INLCUDED 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.

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET

5

TOTAL

47

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 RECIPROCATATE 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.

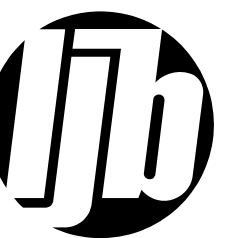
7. A TWO-PART EPOXY SEALER SPECIFIED BY THE MANUFACTURER MUST BE APPLIED TO THE SUBSTRATE PRIOR TO PREFORMED THERMOPLASTIC APPLICATION. IMMEDIATELY FOLLOWING SEALER APPLICATION, THE PANELS OF AGGREGATE REINFORCED PREFORMED THERMOPLASTIC ARE POSITIONED PROPERLY ON THE ASPHALT SUBSTRATE WITH THE AGGREGATE 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

TOTAL

6 | 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 CLOSURE	NOTICE DUE TO CITY
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

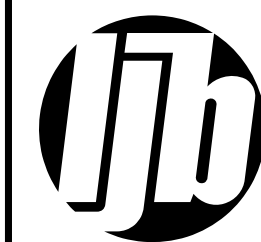
ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

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

TOTAL


7 | 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: Sheet_SurvFI_PAPER SIZE: 34x42 (in.) DATE: 8/11/2023 TIME: 2:32:57 PM USER: bgressel
 C:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940-400-Engineering\Roadway\Sheets\125940_CG001.dgn

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

GENERAL SUMMARY

DESIGN AGENCY	
	
DESIGNER	ASN
REVIEWER	BMG 08/08/23
PROJECT ID	125940
SHEET	8
TOTAL	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: Sheet_SurvFI_PAPER SIZE: 34x42 (in.) DATE: 8/11/2023 TIME: 2:32:58 PM USER: bgressel
C:\City of Bellbrook\125940A.00 - Franklin & Main Resurfacing\125940_400-Engineering\Roadway\Sheets\125940_CG002.dgn

SHEET NUM.

PART.

ITEM

ITEM
EXT

GRAND
TOTAL

UNIT

DESCRIPTION

SEE
SHEET NO.

ROADWAY

201	11000	LS		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

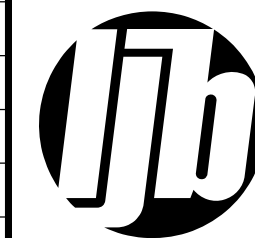
LANDSCAPING

SPECIAL	66199000	LS		LANDSCAPING (SEE SHEET 44 FOR ITEMIZED QUANTITIES)
---------	----------	----	--	--

5

GENERAL SUMMARY (ALTERNATE BID)

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 08/08/23

PROJECT ID

125940






SHEET TOTAL

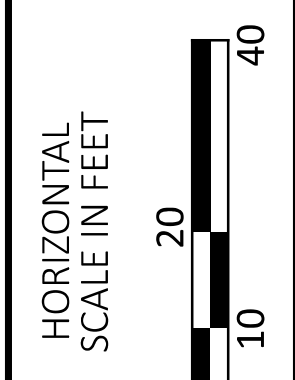
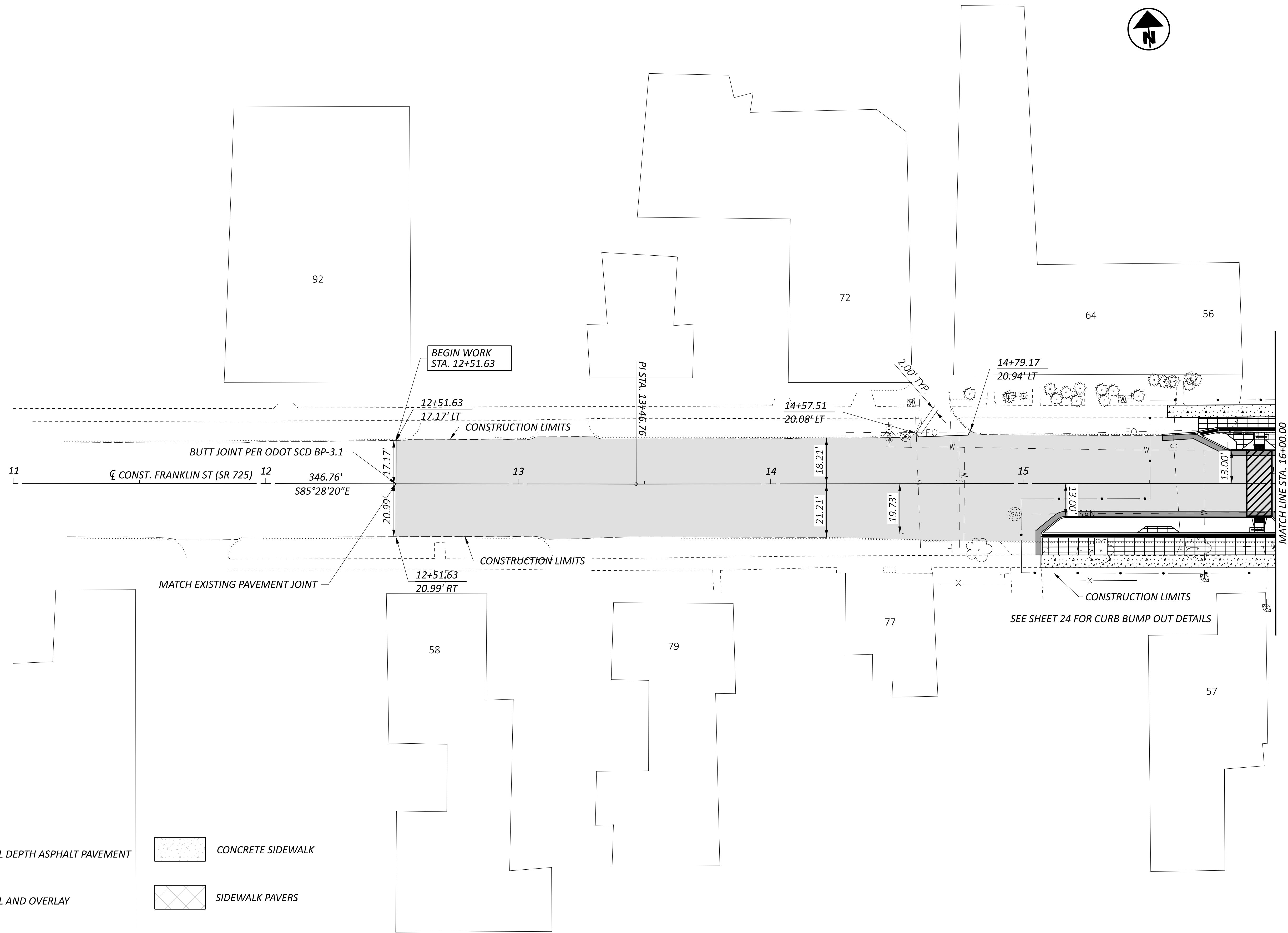
9 | 47

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



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

DESIGN AGENCY



DESIGNER
AA

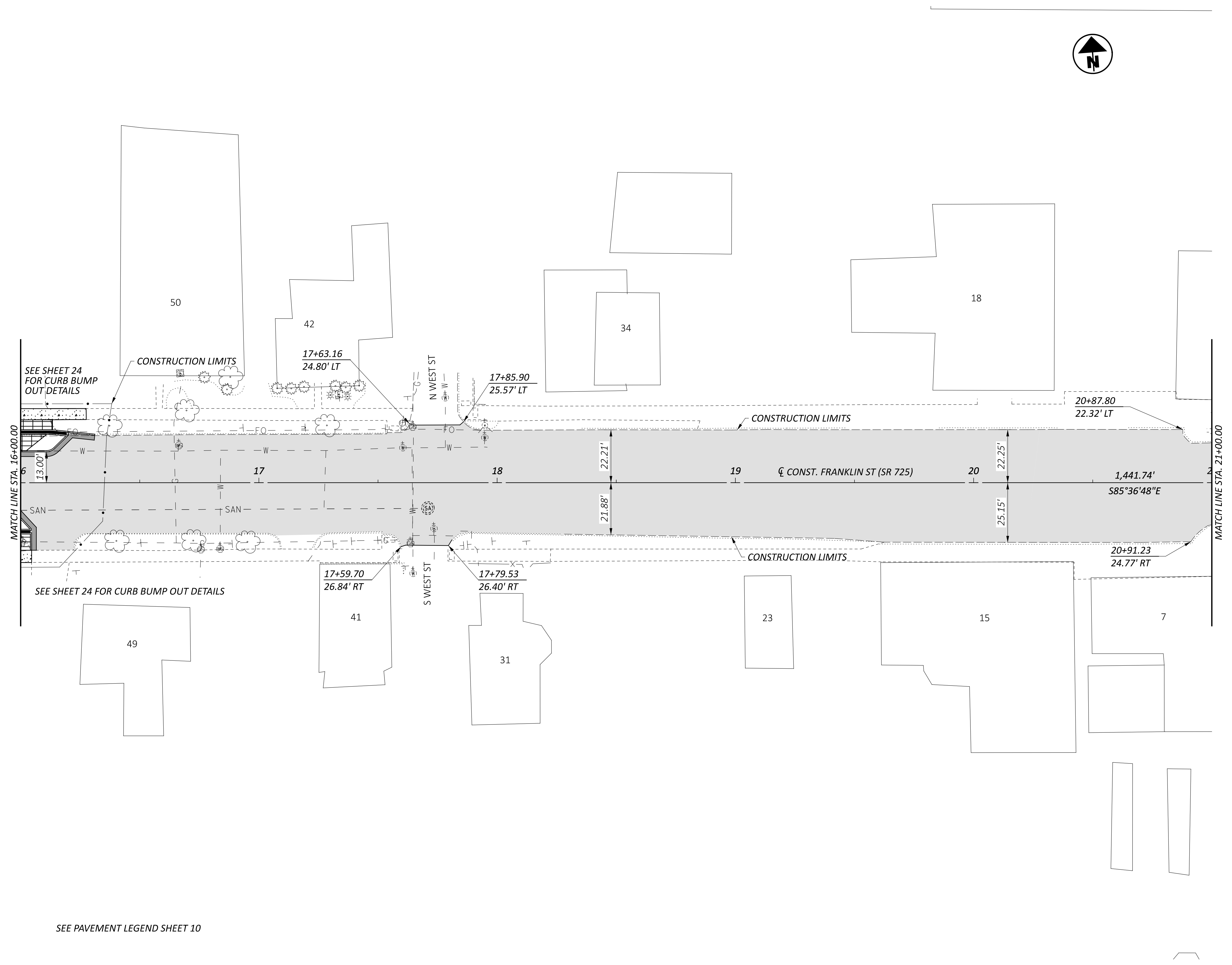
REVIEWER
BMG 07/19/23

PROJECT ID
125940

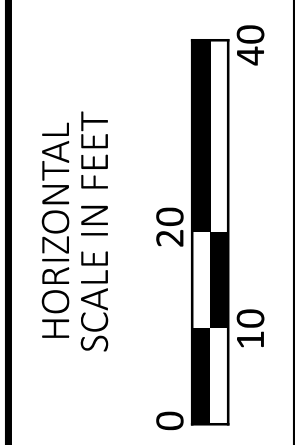
SHEET	TOTAL
10	47

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

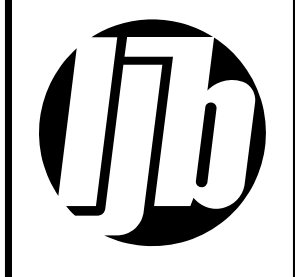


SEE PAVEMENT LEGEND SHEET 10



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

DESIGN AGENCY



DESIGNER
AA

REVIEWER
BMG 07/19/23

PROJECT ID
125940

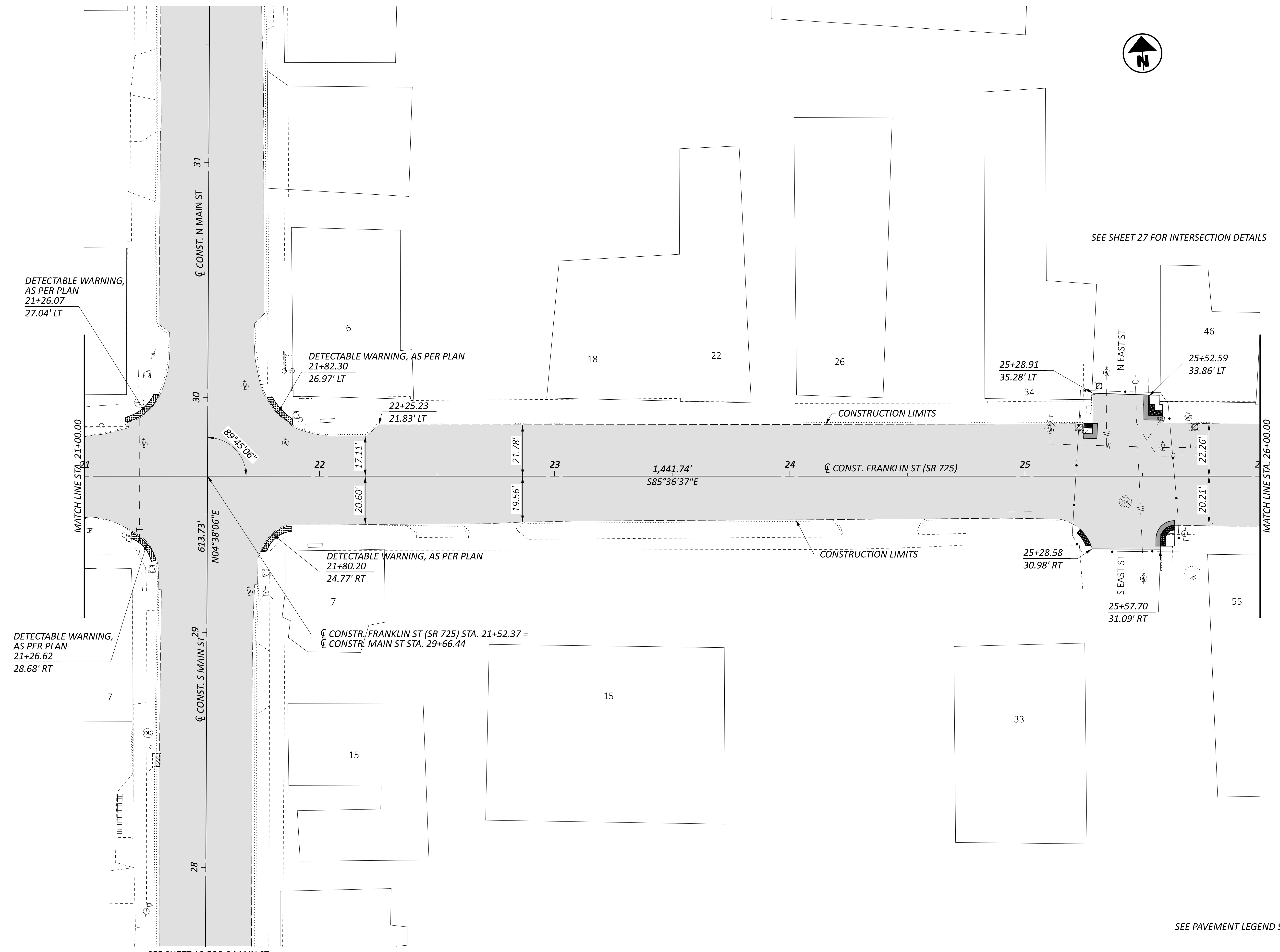
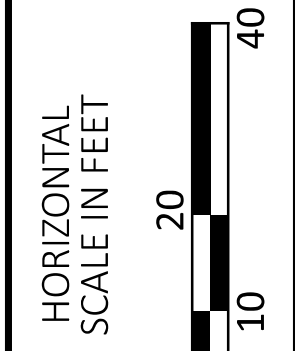
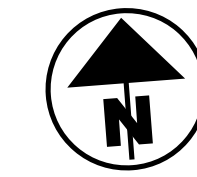
SHEET	TOTAL
11	47

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

SEE SHEET 19 FOR N MAIN ST

SEE SHEET 18 FOR S MAIN ST



SEE SHEET 27 FOR INTERSECTION DETAILS

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

SEE PAVEMENT LEGEND SHEET 10

DESIGN AGENCY

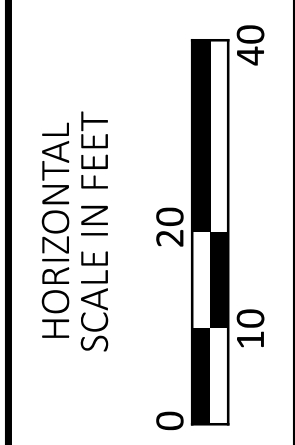
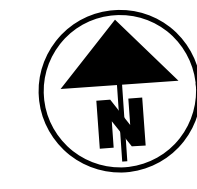
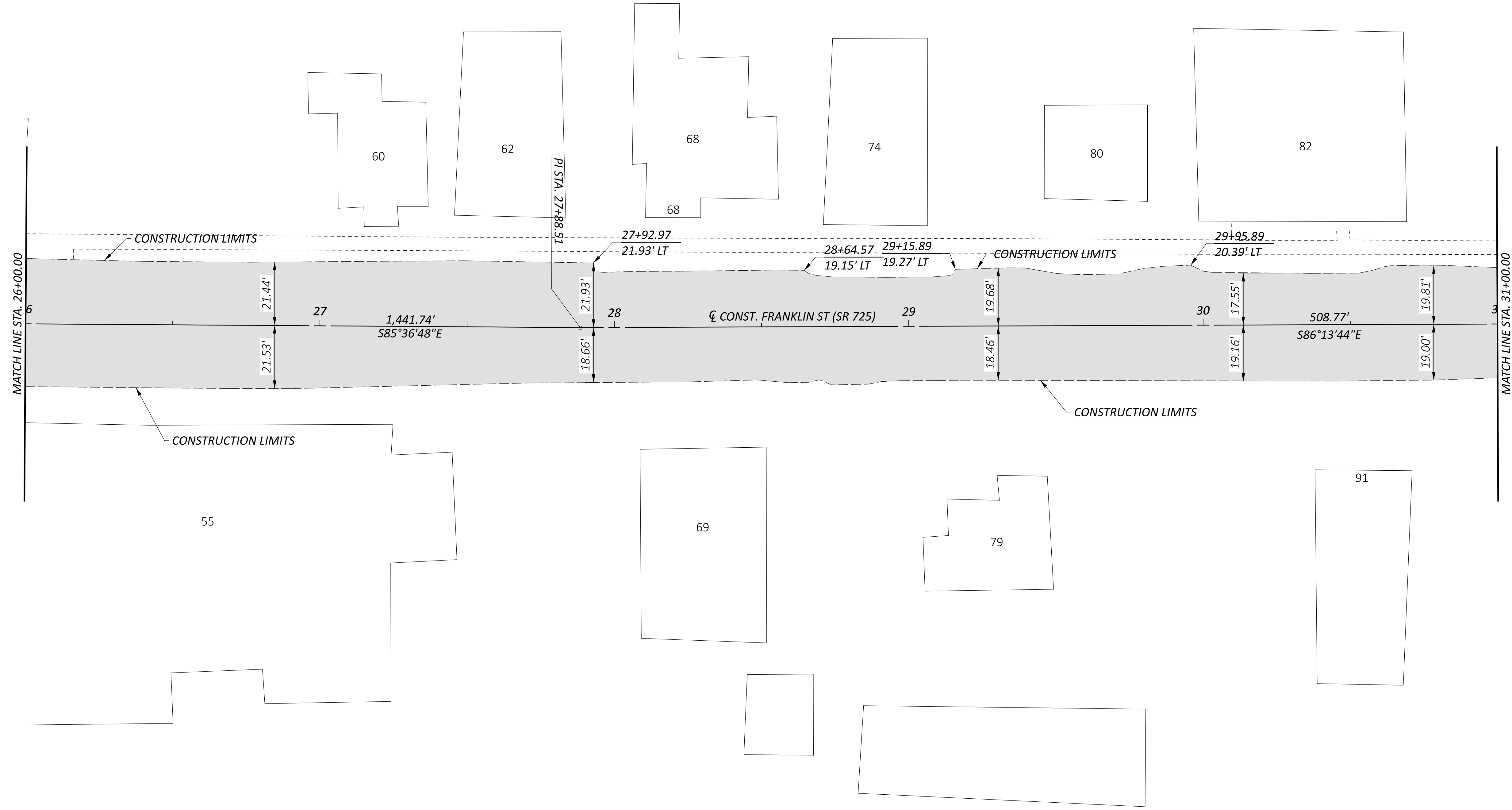


DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
12	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_GP104_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:03 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP104.dgn

SEE PAVEMENT LEGEND SHEET 10



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

DESIGN AGENCY

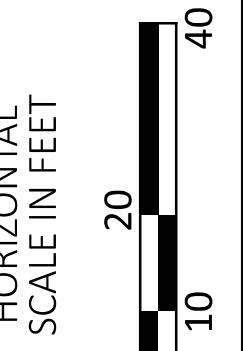
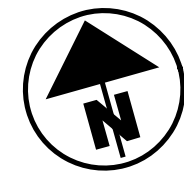
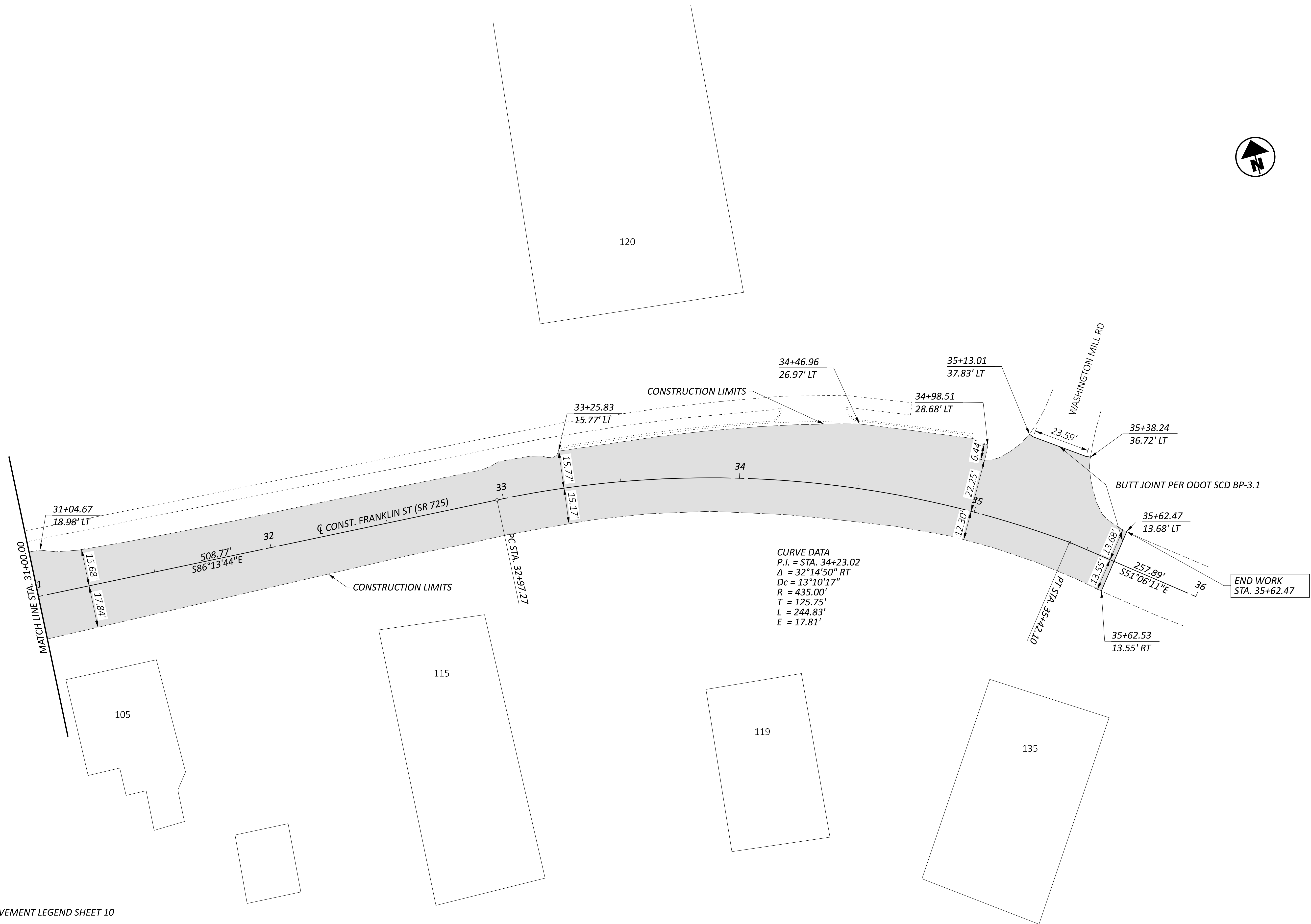


DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
13	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

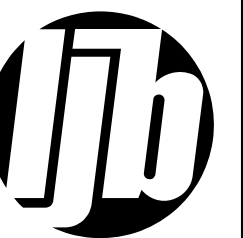
MODEL: 125940_GP105_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:04 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP105.dgn

SEE PAVEMENT LEGEND SHEET 10



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

DESIGN AGENCY



DESIGNER
AA

REVIEWER

BMG 07/19/23

PROJECT ID

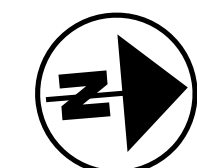
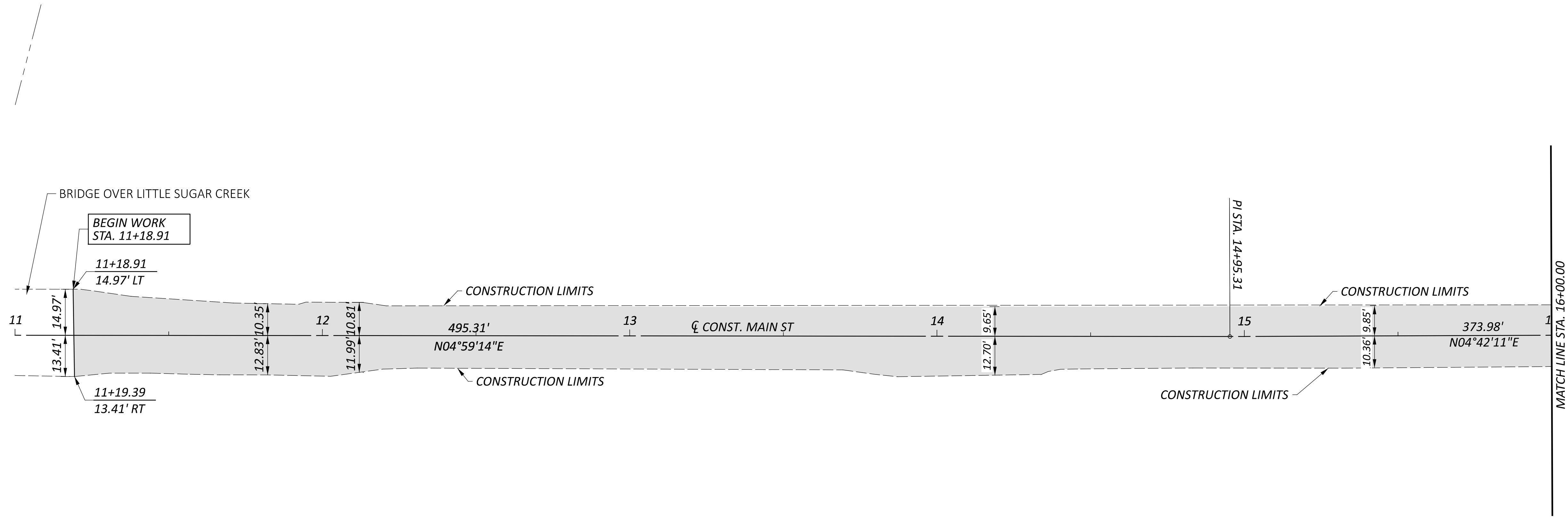
125940

SHEET TOTAL

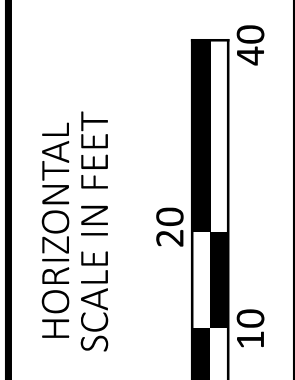
14 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_002 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:05 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP201.dgn

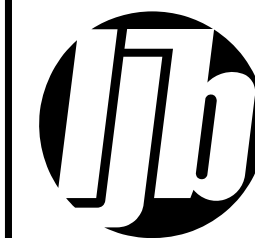


SEE PAVEMENT LEGEND SHEET 10



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

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

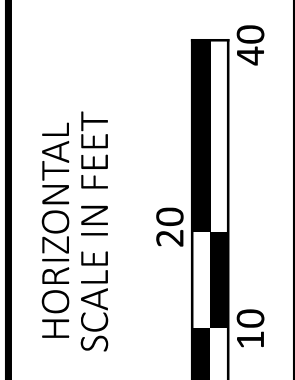
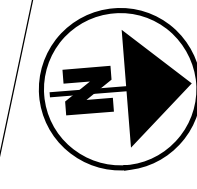
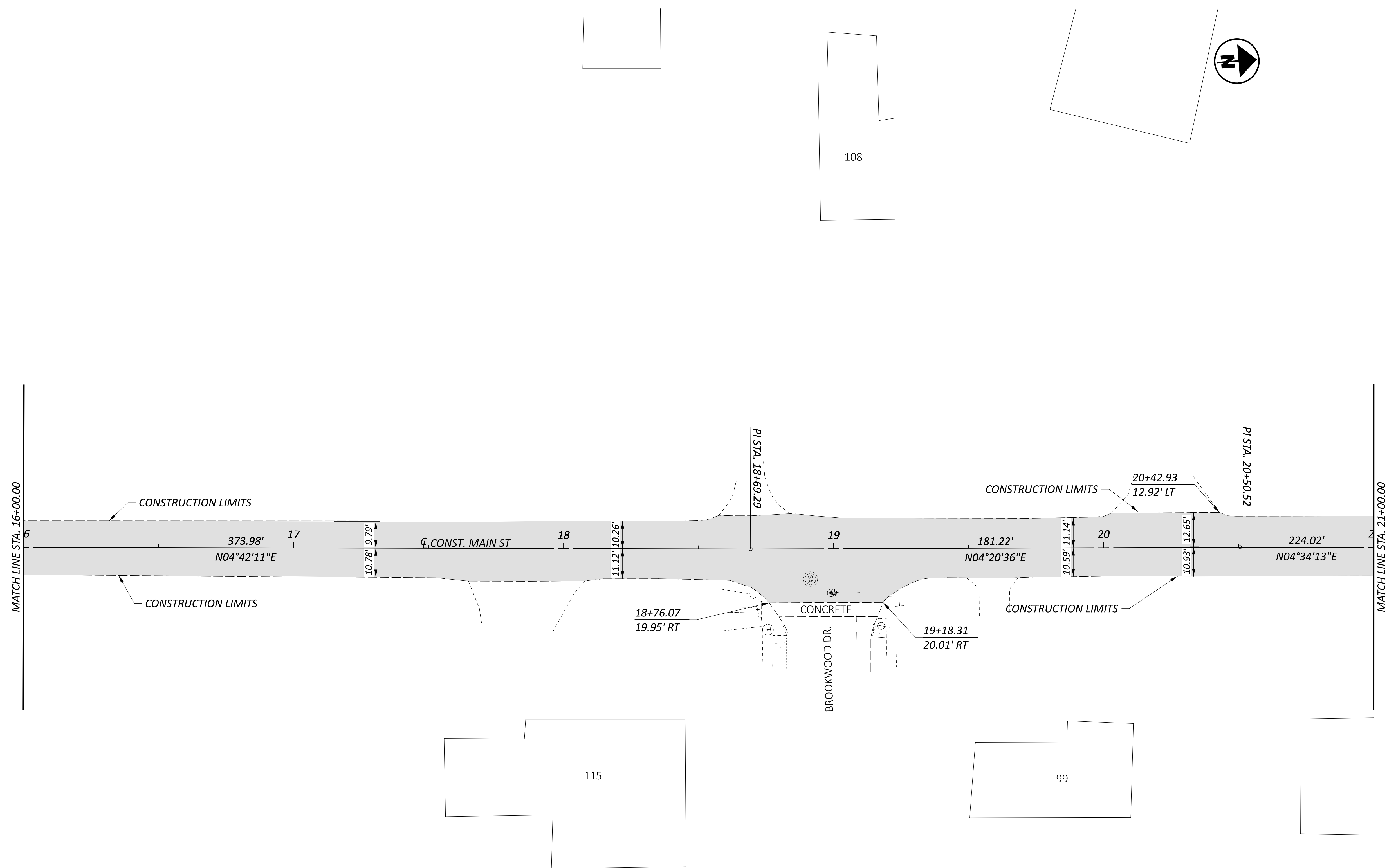
SHEET TOTAL

15 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_003 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:05 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP202.dgn

SEE PAVEMENT LEGEND SHEET 10



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

DESIGN AGENCY



DESIGNER
AA

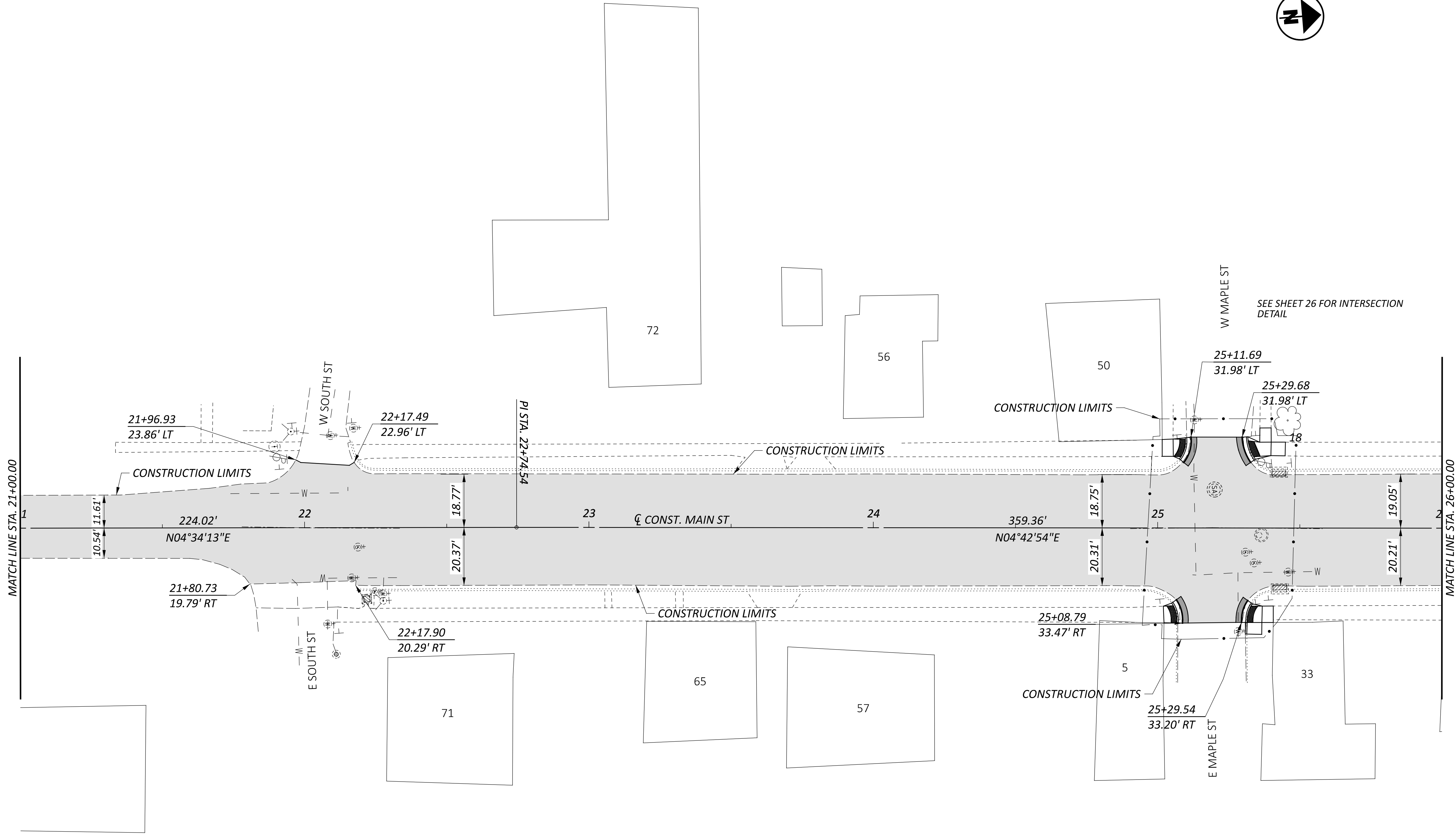
REVIEWER
BMG 07/19/23

PROJECT ID
125940

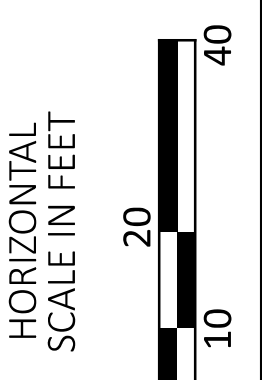
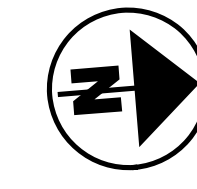
SHEET	TOTAL
16	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_004_PAPERSIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:06 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP203.dgn



SEE PAVEMENT LEGEND SHEET 10



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

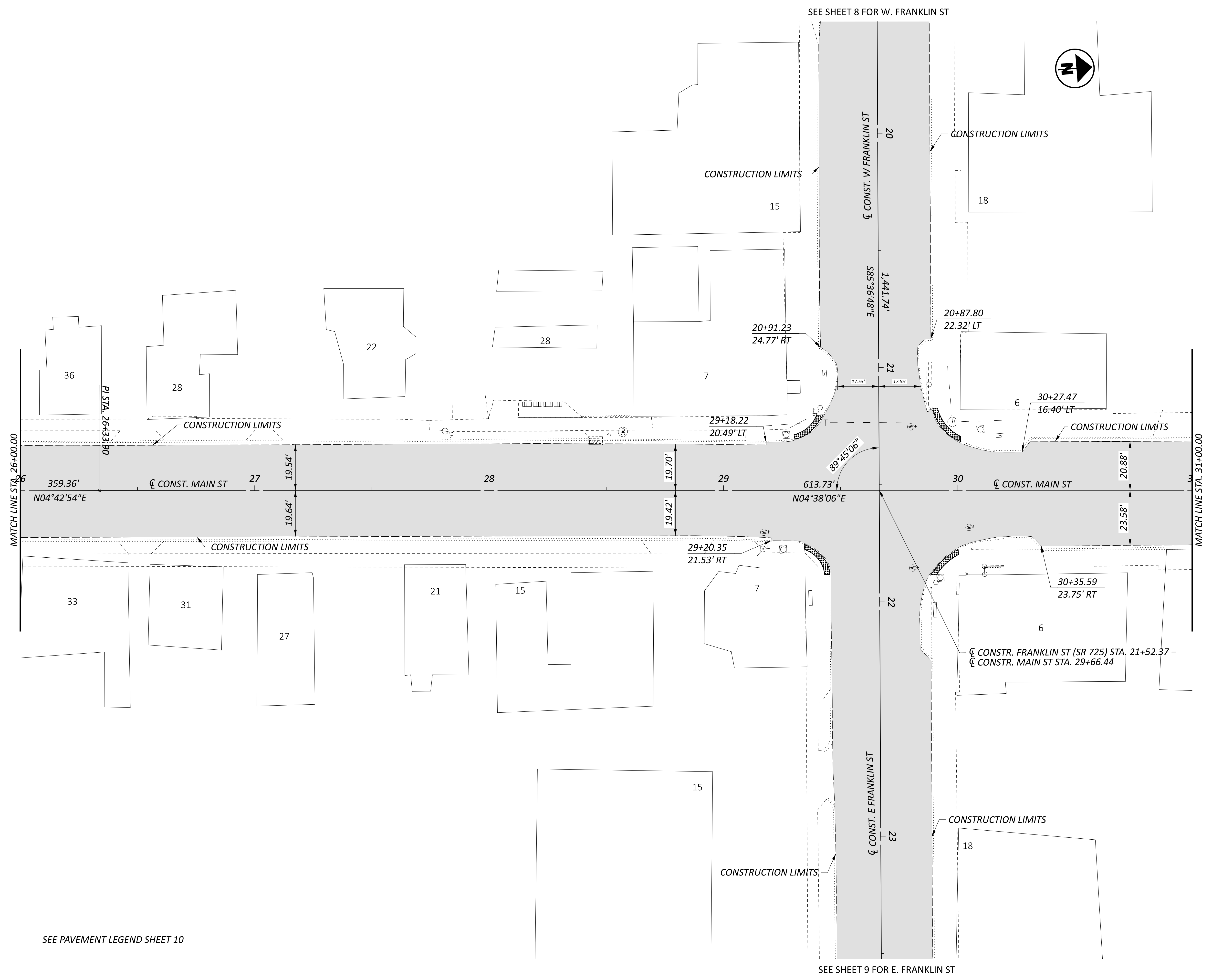
DESIGN AGENCY



DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
17	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

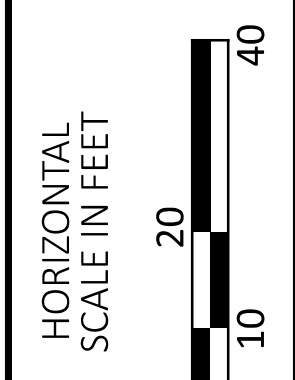
MODEL: CLP - Franklin - GP_005 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:07 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP204.dgn



SEE PAVEMENT LEGEND SHEET 10

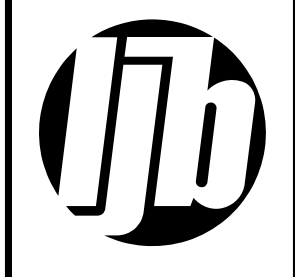
SEE SHEET 8 FOR W. FRANKLIN ST

SEE SHEET 9 FOR E. FRANKLIN ST



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

DESIGN AGENCY



DESIGNER
AA

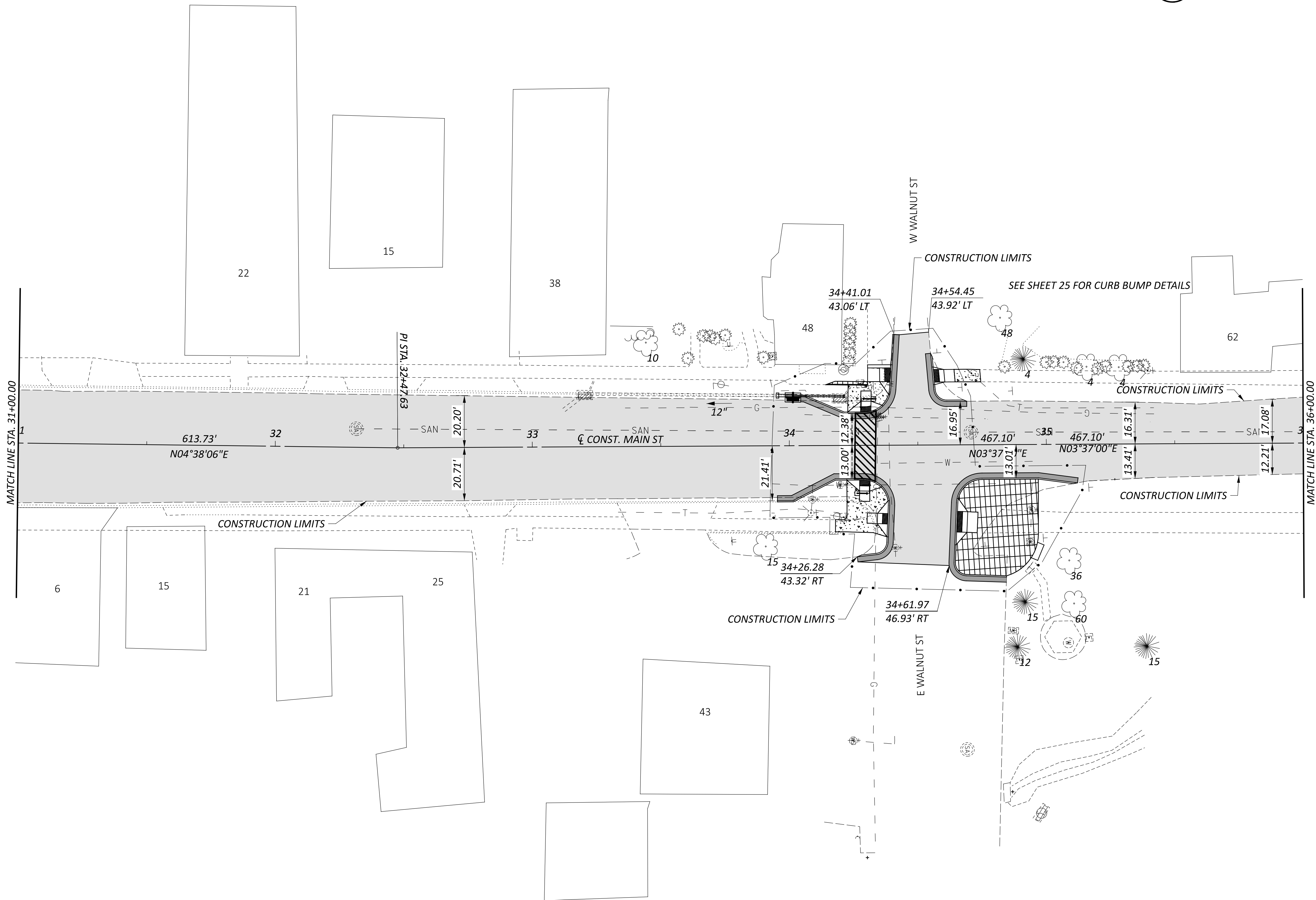
REVIEWER
BMG 07/19/23

PROJECT ID
125940

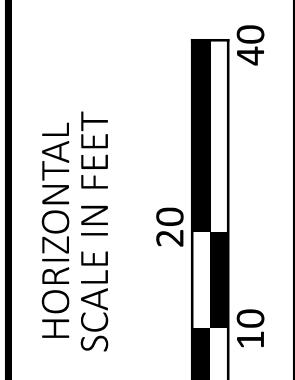
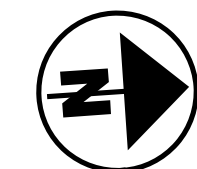
SHEET	TOTAL
18	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_006 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:08 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP205.dgn



SEE PAVEMENT LEGEND SHEET 10



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

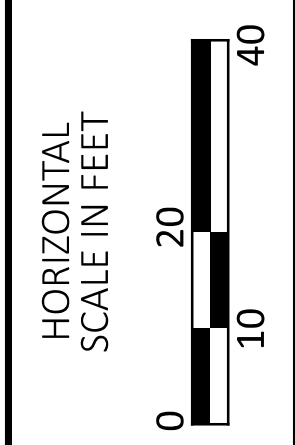
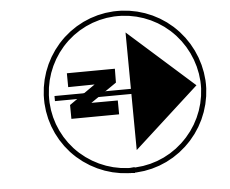
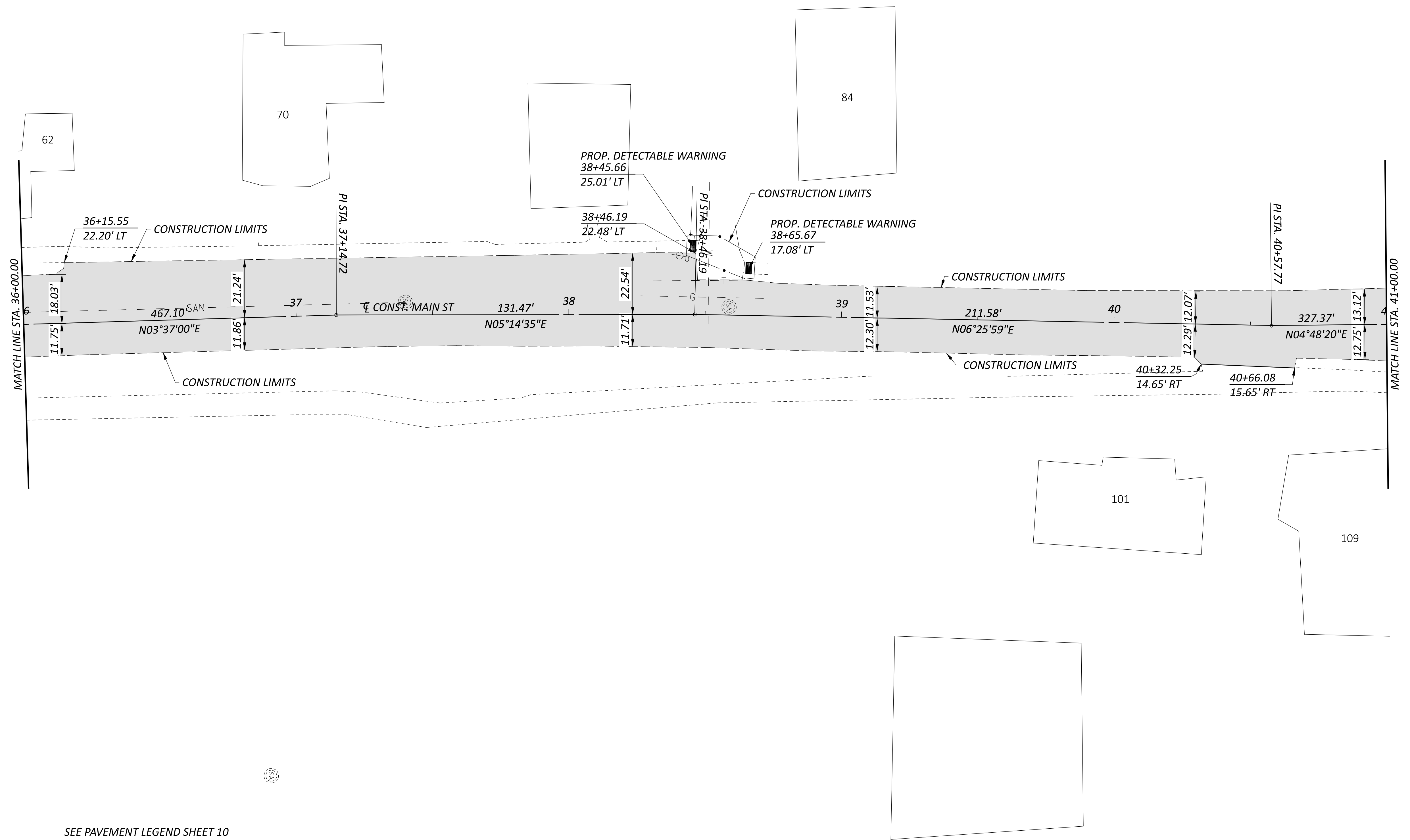
DESIGN AGENCY



DESIGNER	AA
REVIEWER	BMG
PROJECT ID	125940
SHEET	TOTAL
19	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_07 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

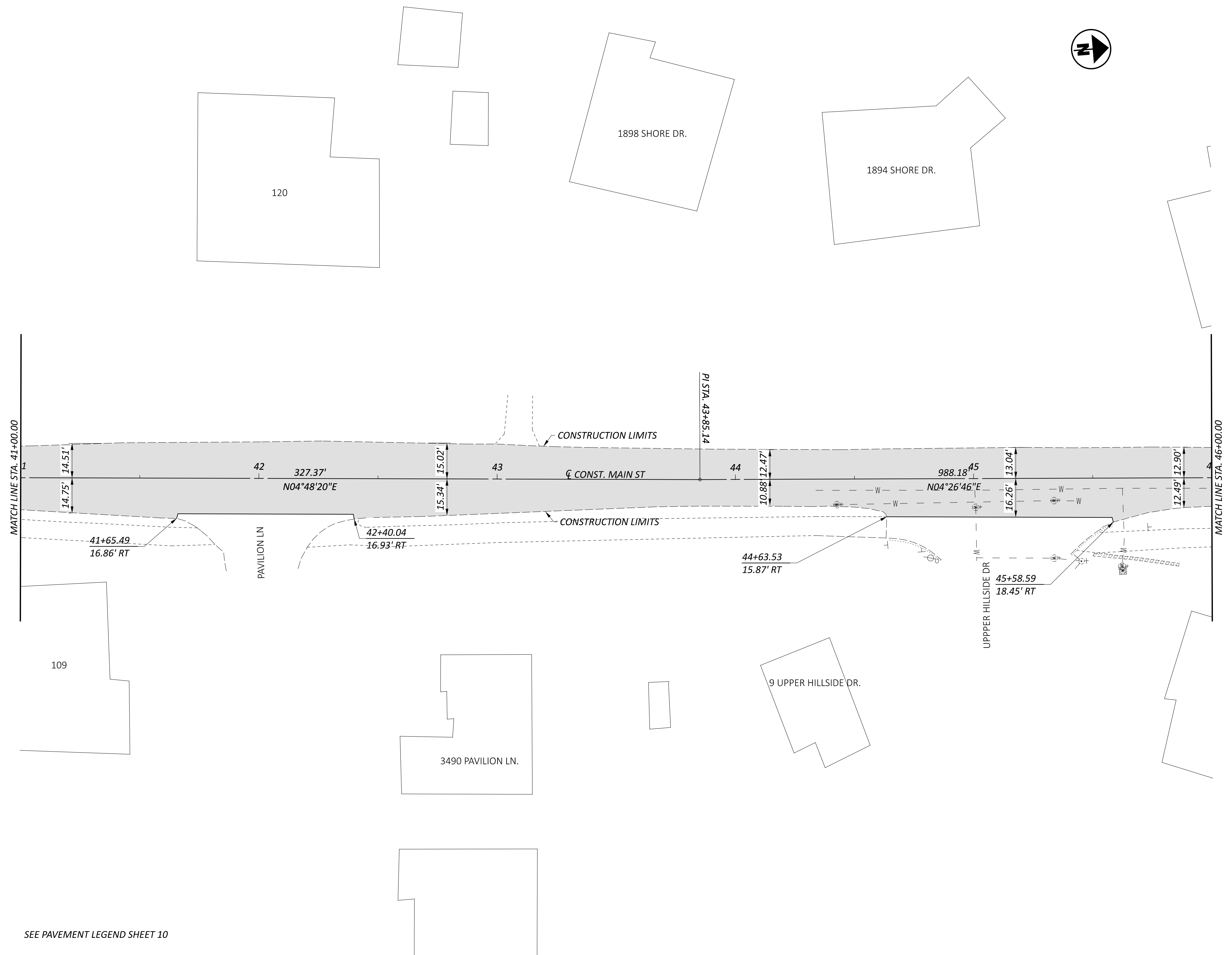
REVIEWER
BMG 07/19/23

PROJECT ID
125940

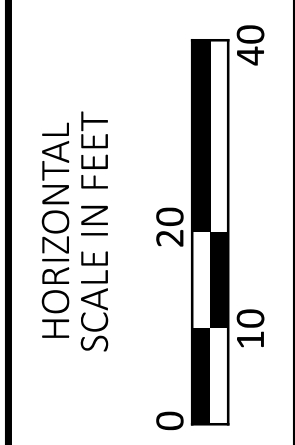
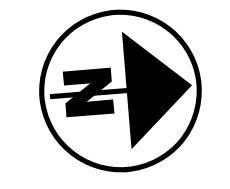
SHEET	TOTAL
20	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_008 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_GP207.dgn



SEE PAVEMENT LEGEND SHEET 10



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

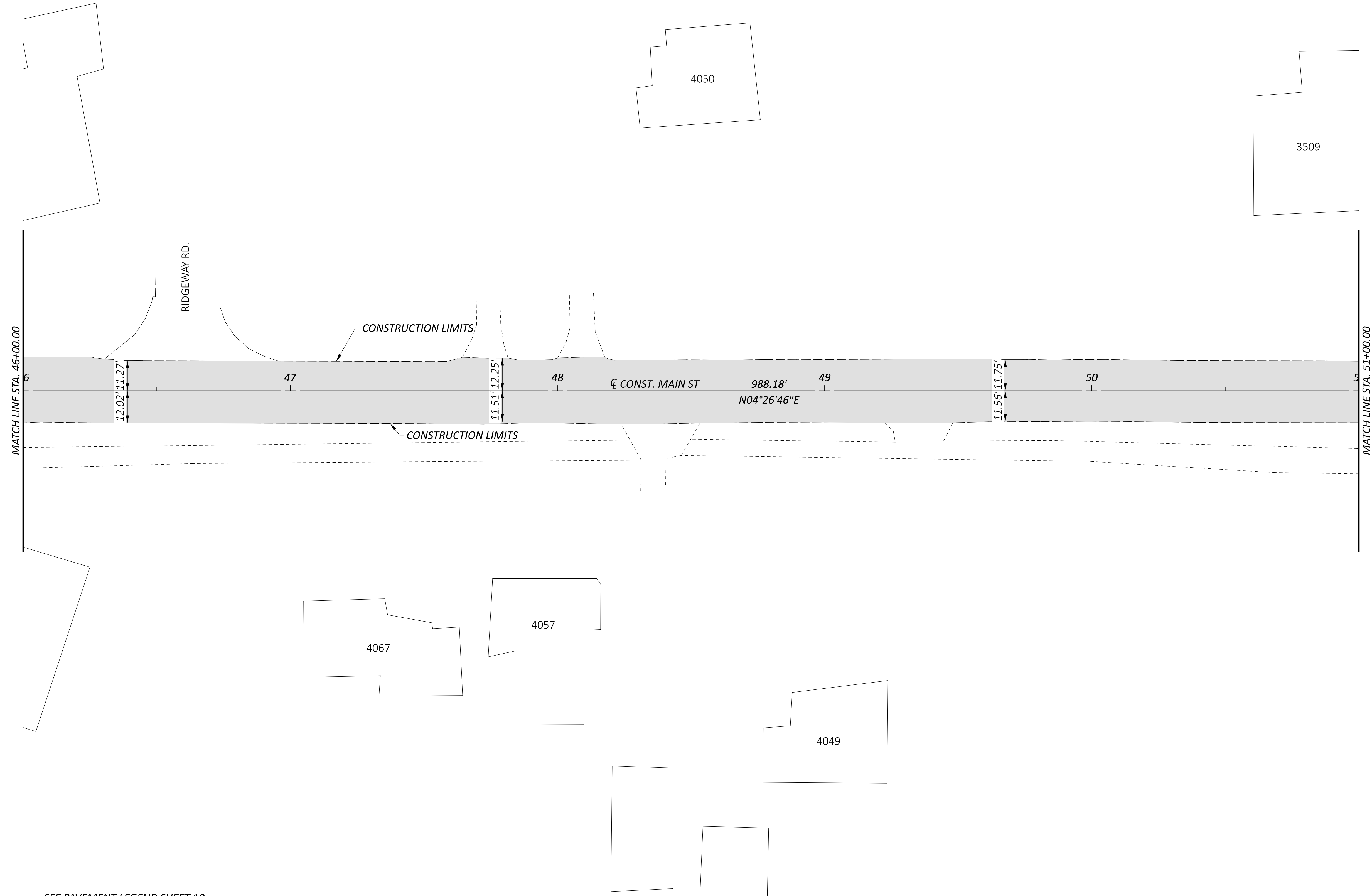
DESIGN AGENCY



DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
21	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_009 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:10 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP208.dgn



SEE PAVEMENT LEGEND SHEET 10



PLAN - MAIN STREET
STA. 46+00.00 TO STA. 51+00.00

DESIGN AGENCY



DESIGNER
AA

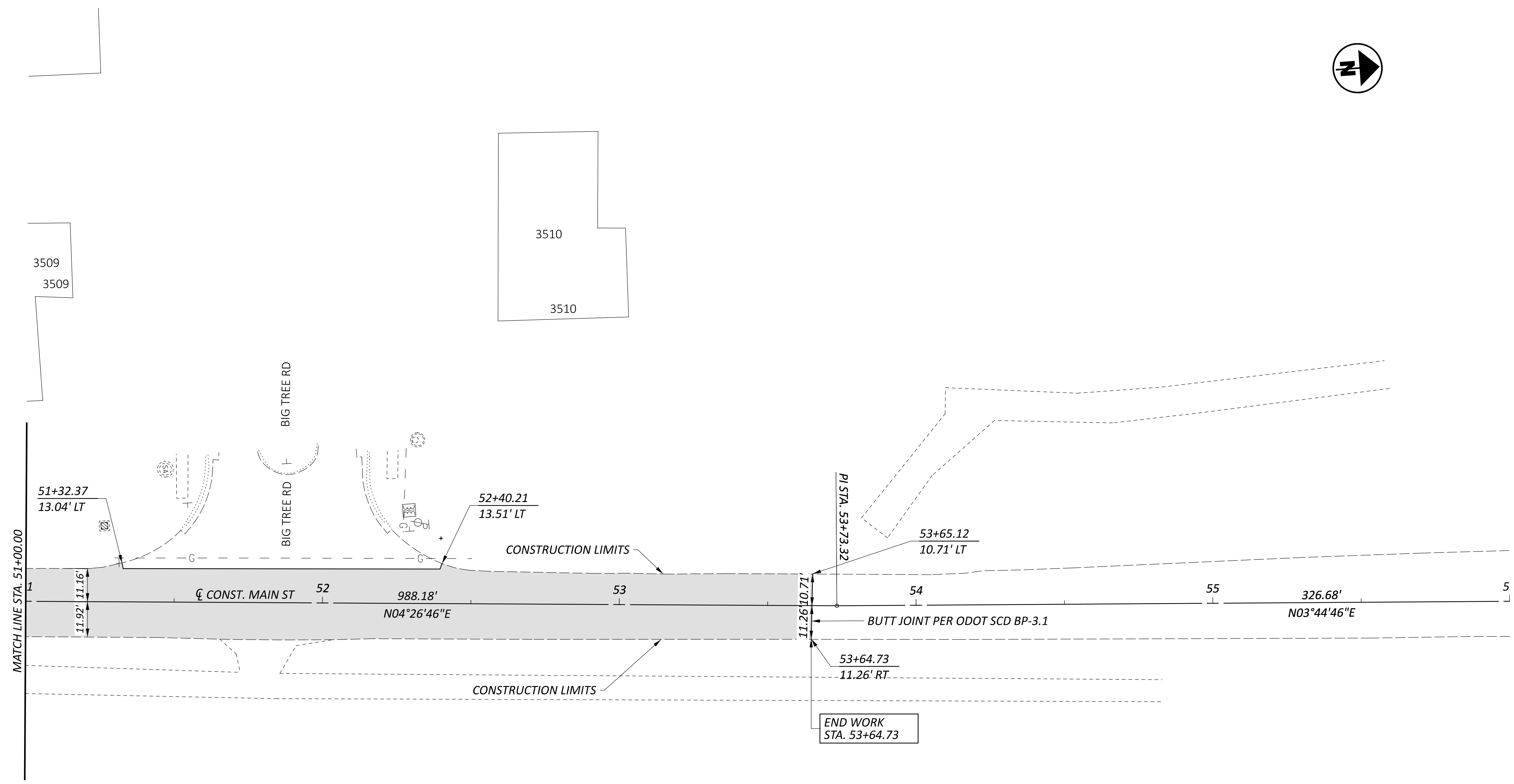
REVIEWER
BMG 07/19/23

PROJECT ID
125940

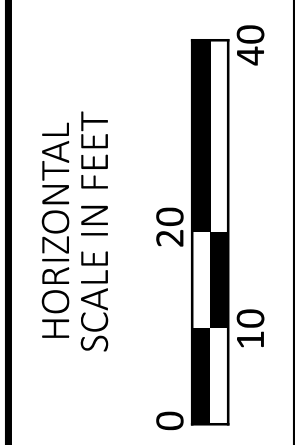
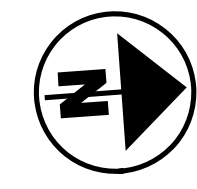
SHEET	TOTAL
22	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: CLP - Franklin - GP_010 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:11 PM USER: bgresse
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_GP209.dgn



SEE PAVEMENT LEGEND SHEET 10



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
23	47

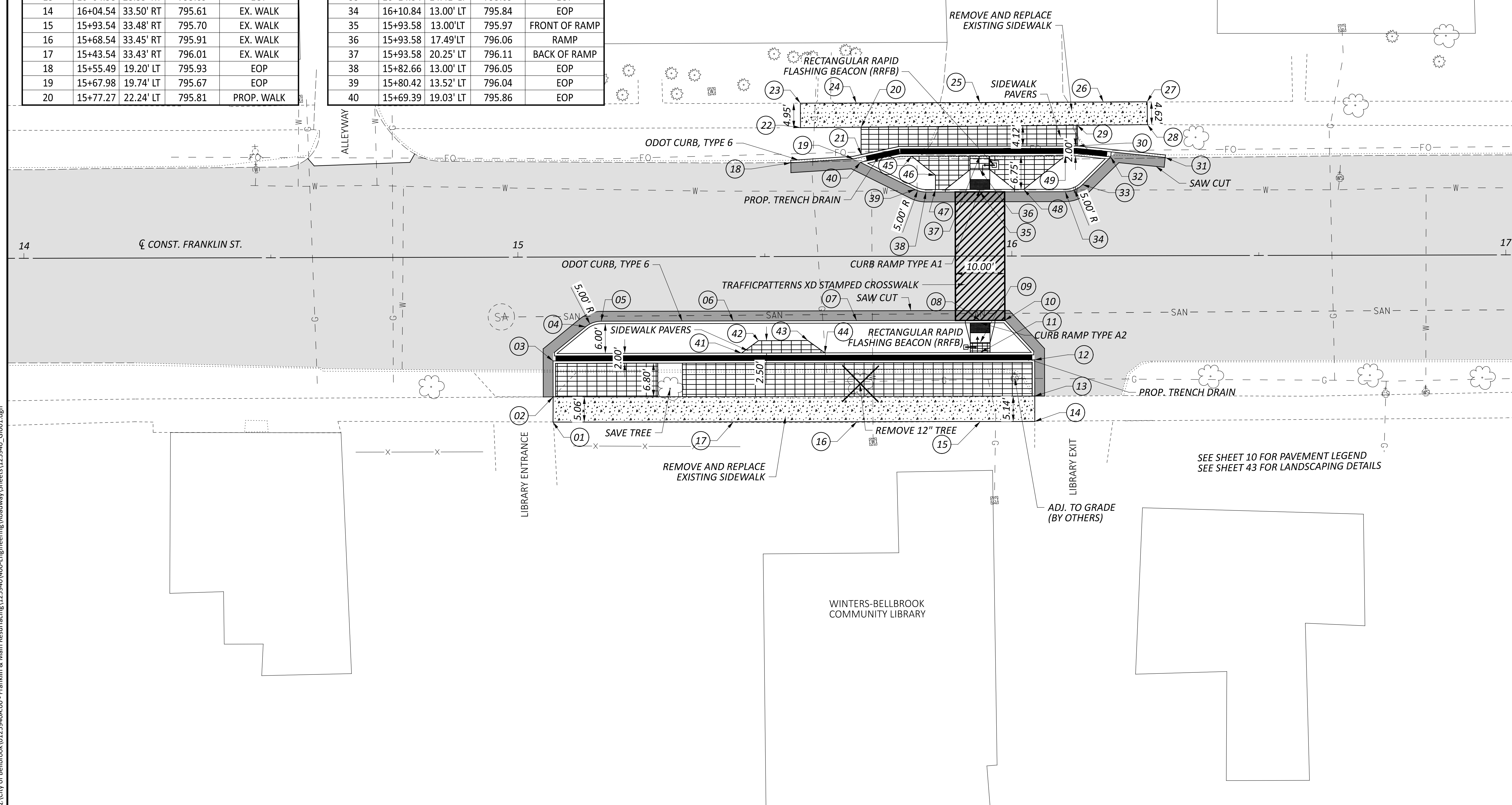
FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: Sheet_SurvFt_PAPER: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:11 PM USER: bgressel
 C:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_G1001.dgn

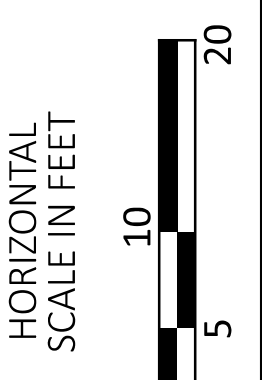
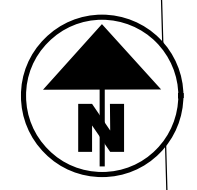
CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
01	15+07.04	33.39' RT	796.10	EX. WALK
02	15+07.08	28.30' RT	796.18	EOP
03	15+07.08	21.51' RT	796.15	EOP
04	15+13.70	14.13' RT	796.47	EOP
05	15+16.86	13.00' RT	796.51	EOP
06	15+43.56	13.00' RT	796.33	EOP
07	15+68.56	13.00' RT	796.14	EOP
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



**CURB BUMP OUT DETAIL
 FRANKLIN STREET - LIBRARY AND DAIRY SHED**

DESIGN AGENCY

 DESIGNER
 ASN
 REVIEWER
 BMG 07/19/23
 PROJECT ID
 125940
 SHEET TOTAL
 24 47

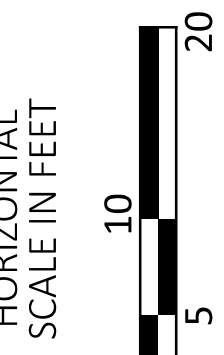
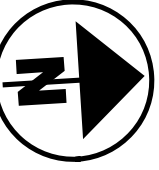
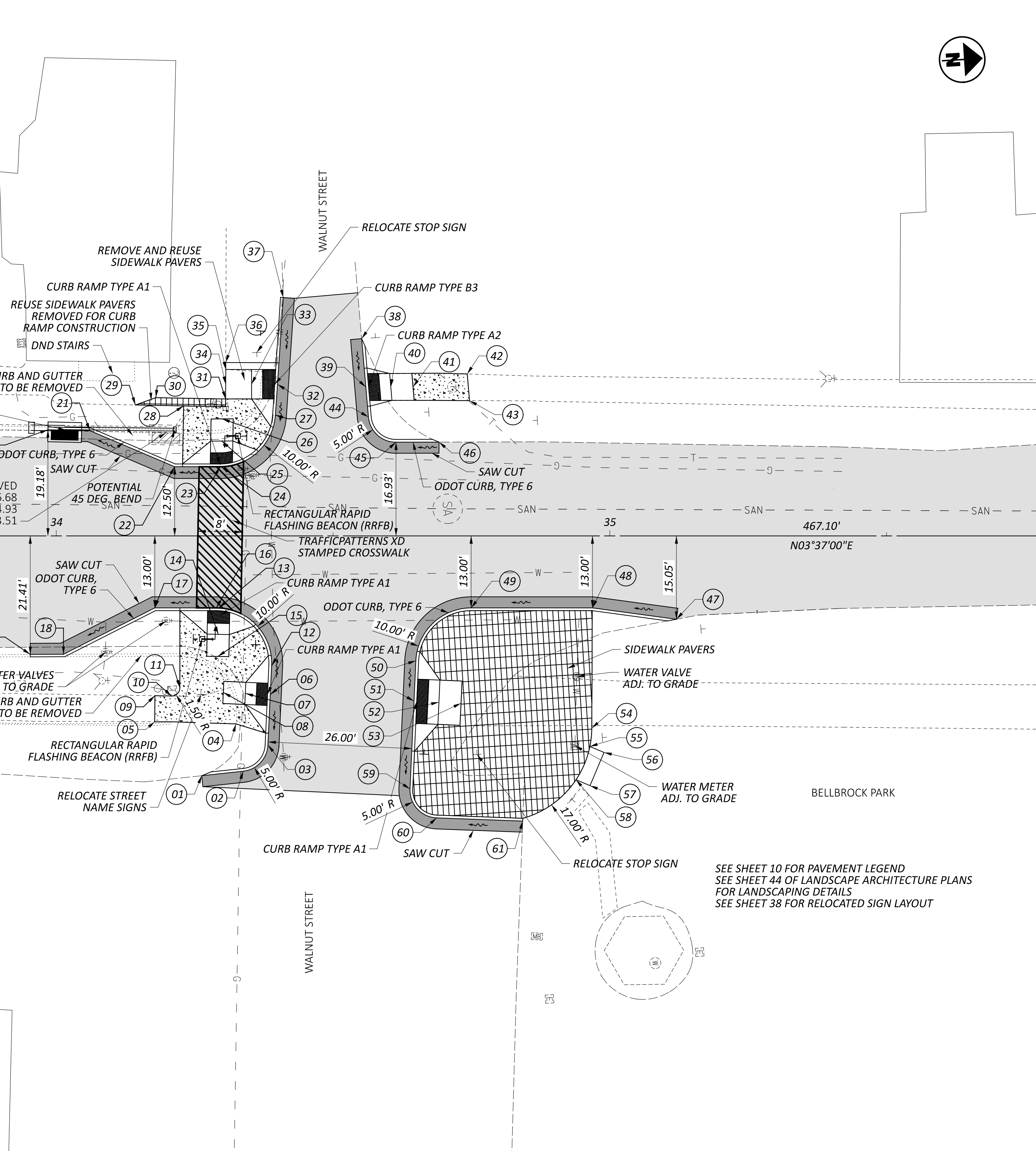
FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: Sheet_SurvFt_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 4:23:13 PM USER: bgressel
 C:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_G1002.dgn

CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
01	34+26.28	43.32' RT	798.27	EOP
02	34+33.79	42.51' RT	797.72	EOP
03	34+38.24	37.77' RT	798.01	EOP
04	34+32.47	33.96' RT	798.04	PROP. WALK
05	34+17.80	33.57' RT	797.39	EX. WALK
06	34+38.66	28.65' RT	798.05	FRONT OF RAMP
07	34+34.16	28.44' RT	798.10	RAMP
08	34+30.17	28.26' RT	798.12	BACK OF RAMP
09	34+17.81	28.87' RT	797.29	EX. WALK
10	34+20.81	28.91' RT	797.37	EX. WALK
11	34+22.34	27.41' RT	797.38	EX. WALK
12	34+38.90	23.46' RT	798.01	EOP
13	34+29.35	13.01' RT	797.70	FRONT OF RAMP
14	34+29.26	17.78' RT	797.73	RAMP
15	34+29.19	21.78' RT	797.60	BACK OF RAMP
16	34+28.91	13.00' RT	797.70	EOP
17	34+17.80	13.00' RT	797.06	EOP
18	34+01.30	21.38' RT	796.11	EOP
19	33+95.30	21.41' RT	795.78	EOP
20	33+98.49	19.18' LT	795.58	EOP

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

CURB BUMP OUT DETAILS				
LOCATION	STATION	OFFSET	ELEVATION	DETAIL
41	34+64.45	26.93' LT	799.80	BACK OF RAMP
42	34+74.24	29.25' LT	800.78	EX. WALK
43	34+74.66	24.46' LT	800.76	EX. WALK
44	34+56.39	21.50' LT	799.30	EOP
45	34+61.39	16.93' LT	799.32	EOP
46	34+69.14	16.95' LT	799.75	EOP
47	35+12.04	15.05' RT	801.46	EOP
48	34+96.87	13.00' RT	800.80	EOP
49	34+74.96	13.00' RT	799.85	EOP
50	34+64.97	22.54' RT	798.79	EOP
51	34+64.63	29.84' RT	798.70	FRONT OF RAMP
52	34+69.13	30.04' RT	798.79	RAMP
53	34+73.12	30.23' RT	798.86	BACK OF RAMP
54	34+96.75	34.72' RT	800.22	PROP. WALK
55	34+96.40	38.04' RT	800.33	PROP. WALK
56	34+98.95	39.12' RT	800.65	PROP. WALK
57	34+96.43	45.11' RT	800.77	PROP. WALK
58	34+93.90	44.05' RT	800.58	PROP. WALK
59	34+63.91	45.71' RT	798.66	EOP
60	34+68.71	50.93' RT	798.75	EOP
61	34+84.27	51.52' RT	799.44	EOP



**CURB BUMP OUT DETAIL
 MAIN STREET & WALNUT STREET**

SEE SHEET 10 FOR PAVEMENT LEGEND
 SEE SHEET 44 OF LANDSCAPE ARCHITECTURE PLANS
 FOR LANDSCAPING DETAILS
 SEE SHEET 38 FOR RELOCATED SIGN LAYOUT

DESIGN AGENCY



DESIGNER
 ASN

REVIEWER
 BMG 07/19/23

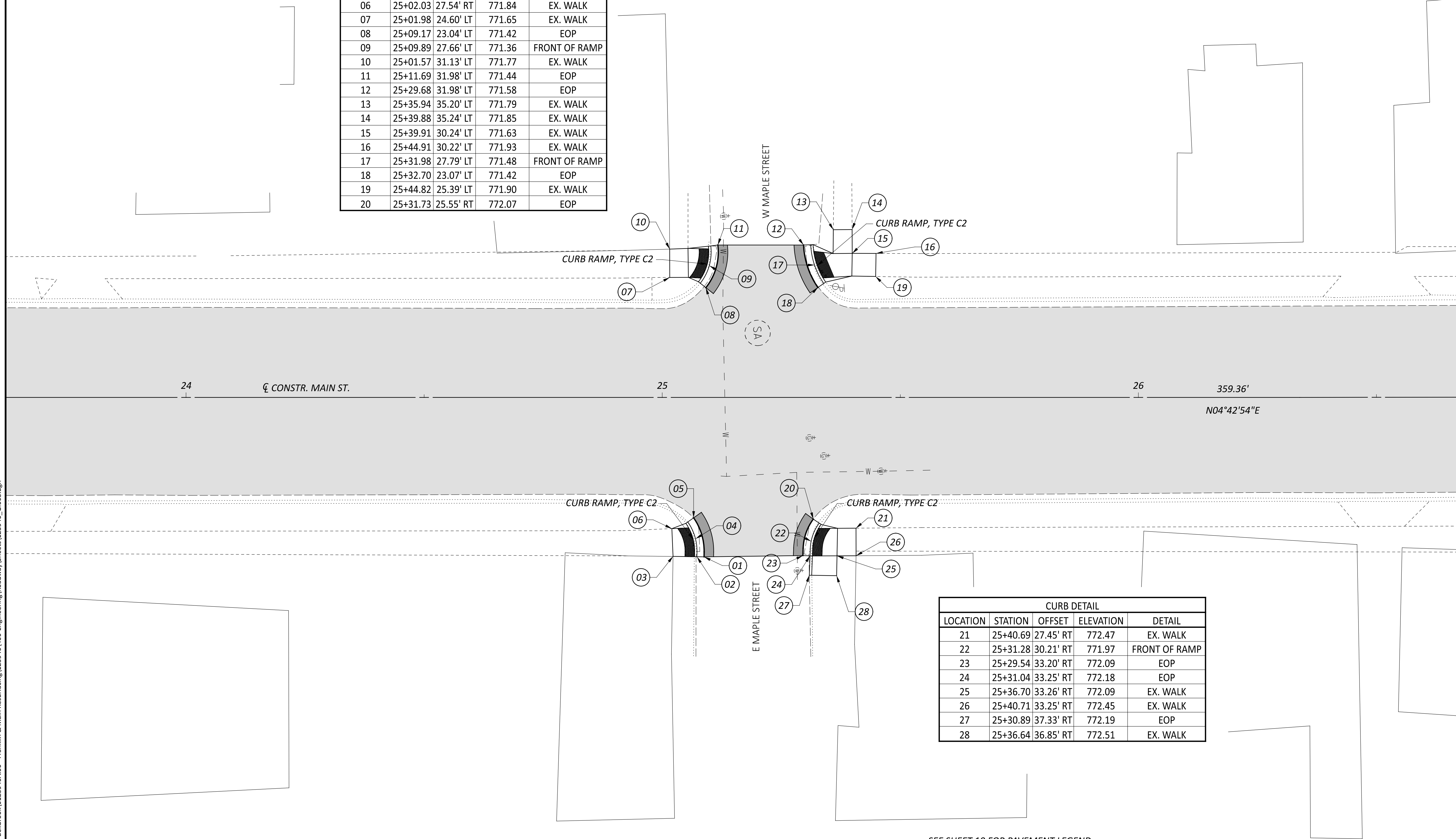
PROJECT ID
 125940

SHEET TOTAL
 25 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: Sheet_SurvFt_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:13 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_G1003.dgn

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



**INTERSECTION DETAIL
 MAIN ST. & MAPLE ST.**

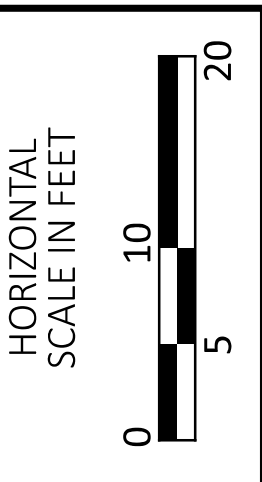
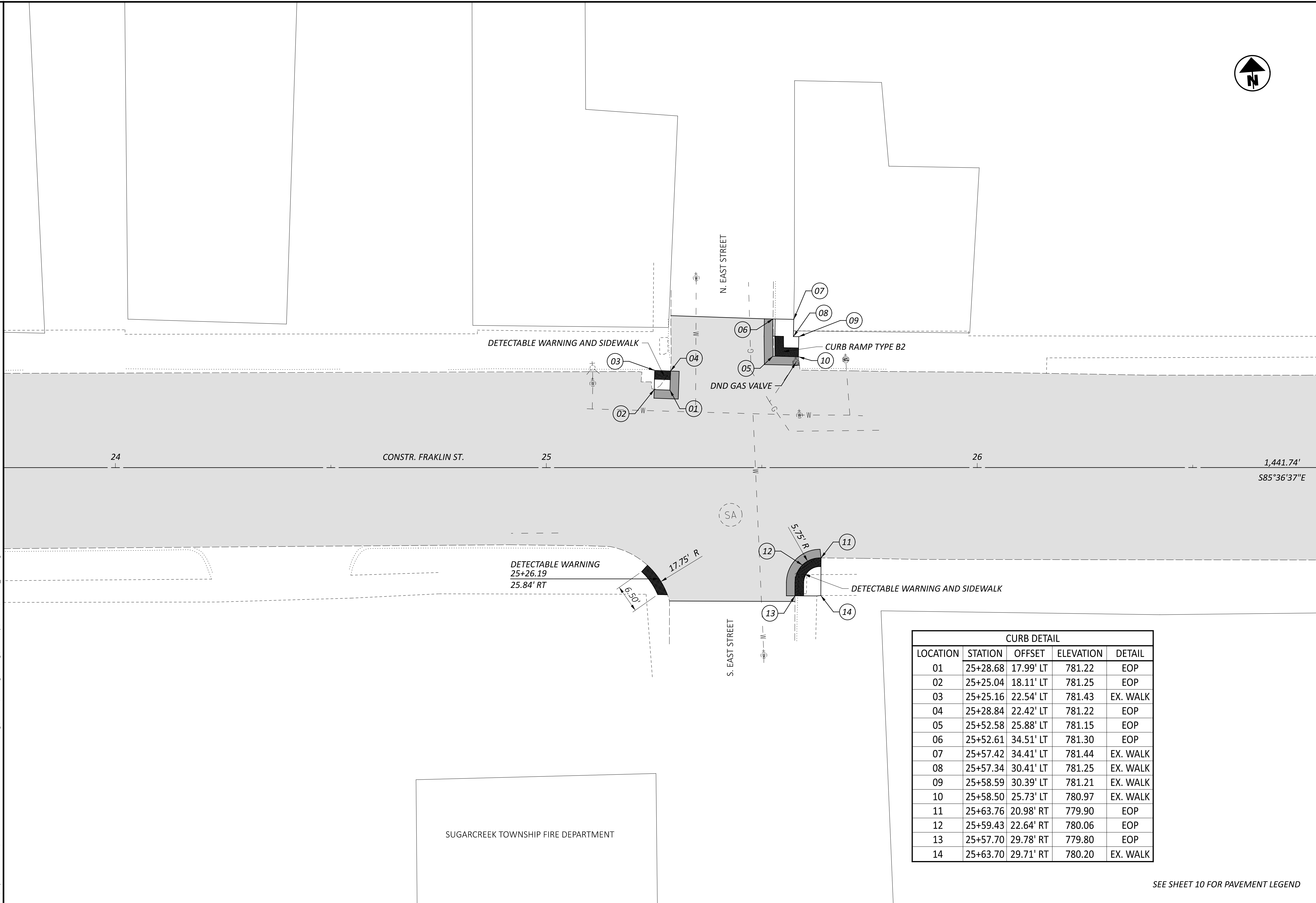
DESIGN AGENCY



DESIGNER	ASN
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
26	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: Sheet_SurvFt_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:14 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Roadway\Sheets\125940_G1004.dgn



**INTERSECTION DETAIL
FRANKLIN ST. & EAST ST.**

DETECTABLE WARNING
25+26.19
25.84' RT

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

DESIGN AGENCY



DESIGNER

ASN

REVIEWER

BMG 07/19/23

PROJECT ID

125940

SHEET TOTAL

27 47

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

TOTAL

28 | 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

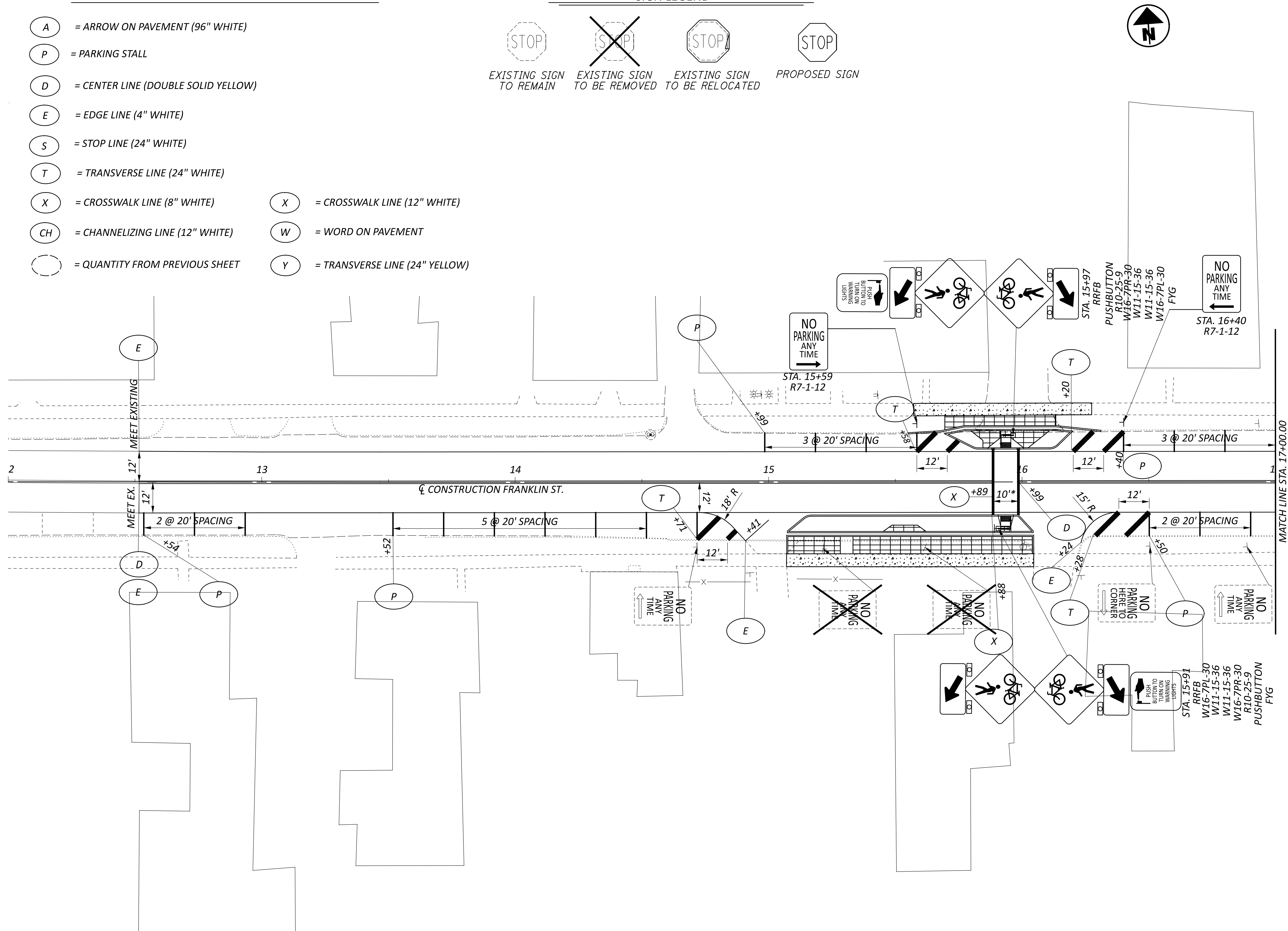
MODEL: 125940_TP101.PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:44 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP101.dgn

PAVEMENT MARKING LEGEND

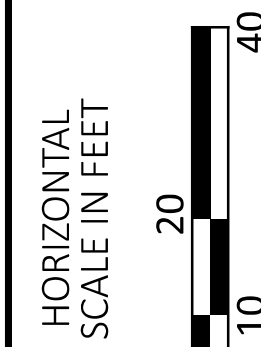
- (A) = ARROW ON PAVEMENT (96" WHITE)
- (P) = PARKING STALL
- (D) = CENTER LINE (DOUBLE SOLID YELLOW)
- (E) = EDGE LINE (4" WHITE)
- (S) = STOP LINE (24" WHITE)
- (T) = TRANSVERSE LINE (24" WHITE)
- (X) = CROSSWALK LINE (8" WHITE)
- (CH) = CHANNELIZING LINE (12" WHITE)
- () = QUANTITY FROM PREVIOUS SHEET
- (X) = CROSSWALK LINE (12" WHITE)
- (W) = WORD ON PAVEMENT
- (Y) = TRANSVERSE LINE (24" YELLOW)

SIGN LEGEND

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

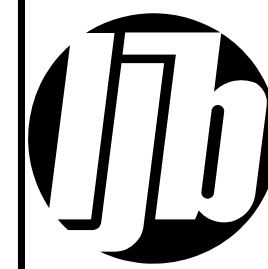


*PLACE 12" CROSSWALK LINE ON PERIMETER OF TRAFFIC PATTERNS XD ENHANCED CROSSWALK



TRAFFIC CONTROL PLAN
 STA. 12+51.00 - STA. 17+00.00

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

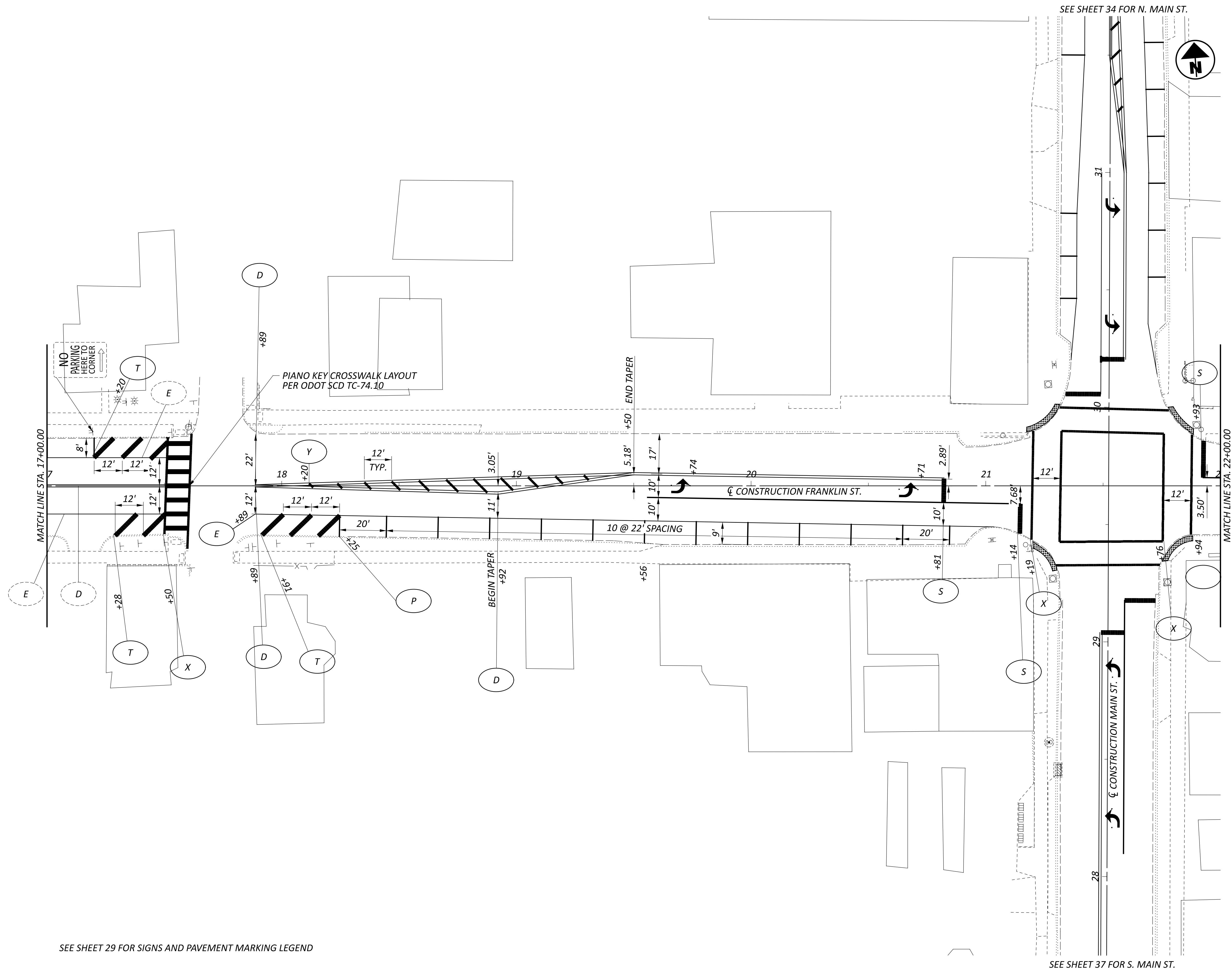
125940

SHEET TOTAL

29 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

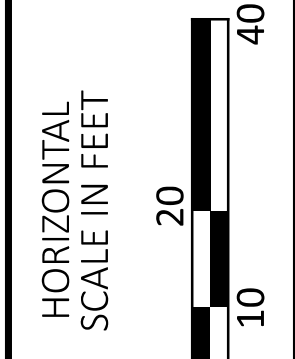
MODEL: 125940_TP102_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:45 PM USER: bgessel
 C:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP102.dgn



SEE SHEET 29 FOR SIGNS AND PAVEMENT MARKING LEGEND

SEE SHEET 37 FOR S. MAIN ST.

SEE SHEET 34 FOR N. MAIN ST.



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

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

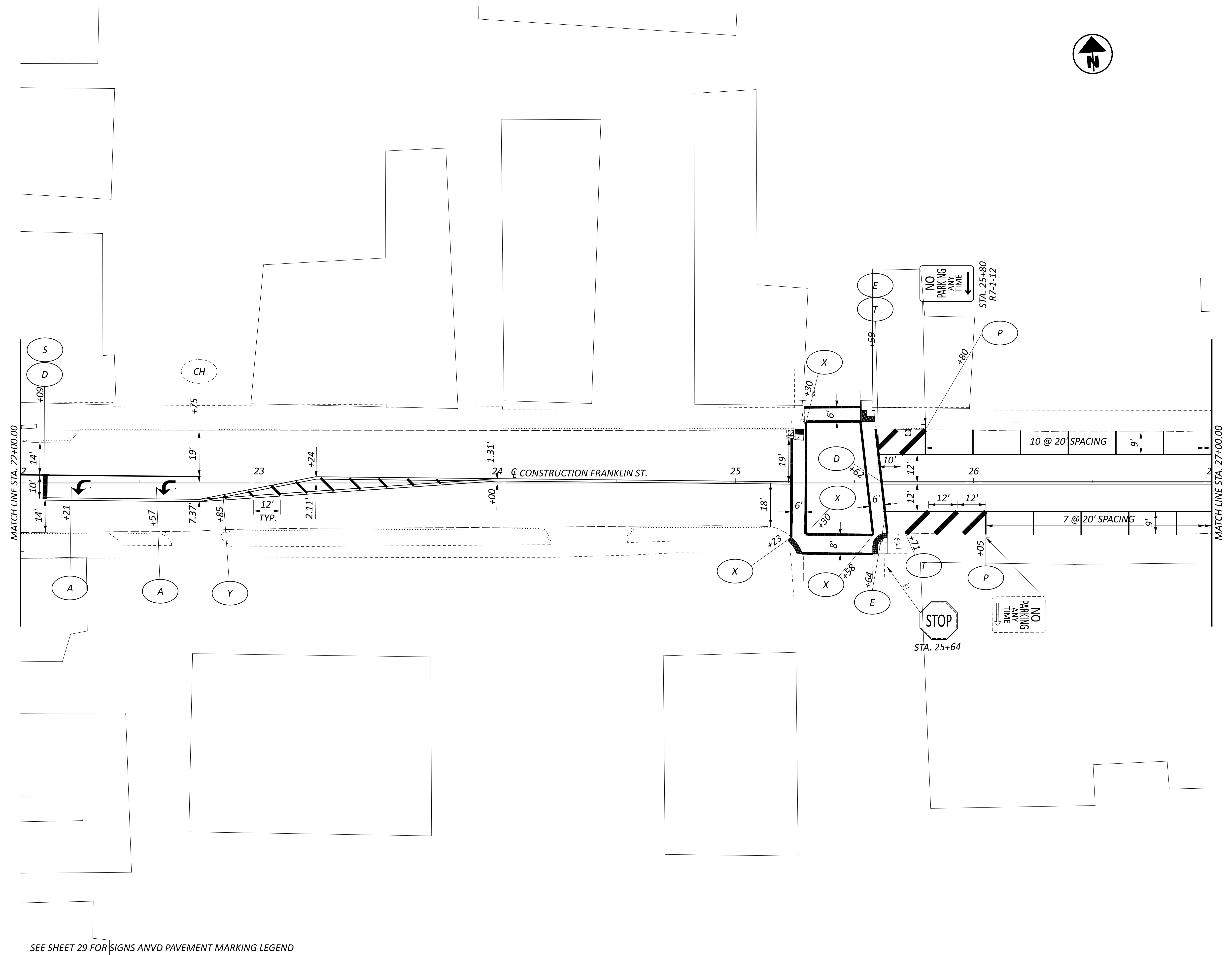
125940

SHEET TOTAL

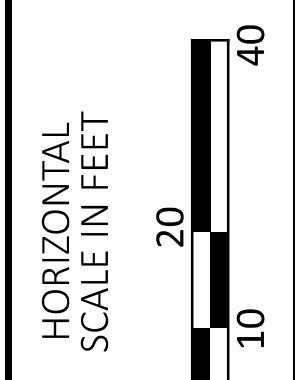
30 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP103_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:46 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP103.dgn



SEE SHEET 29 FOR SIGNS ANVD PAVEMENT MARKING LEGEND



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

DESIGN AGENCY

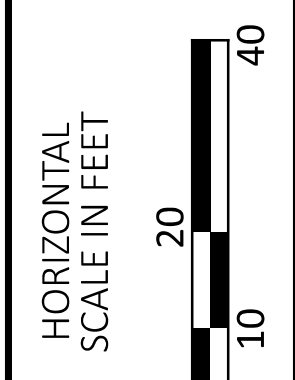
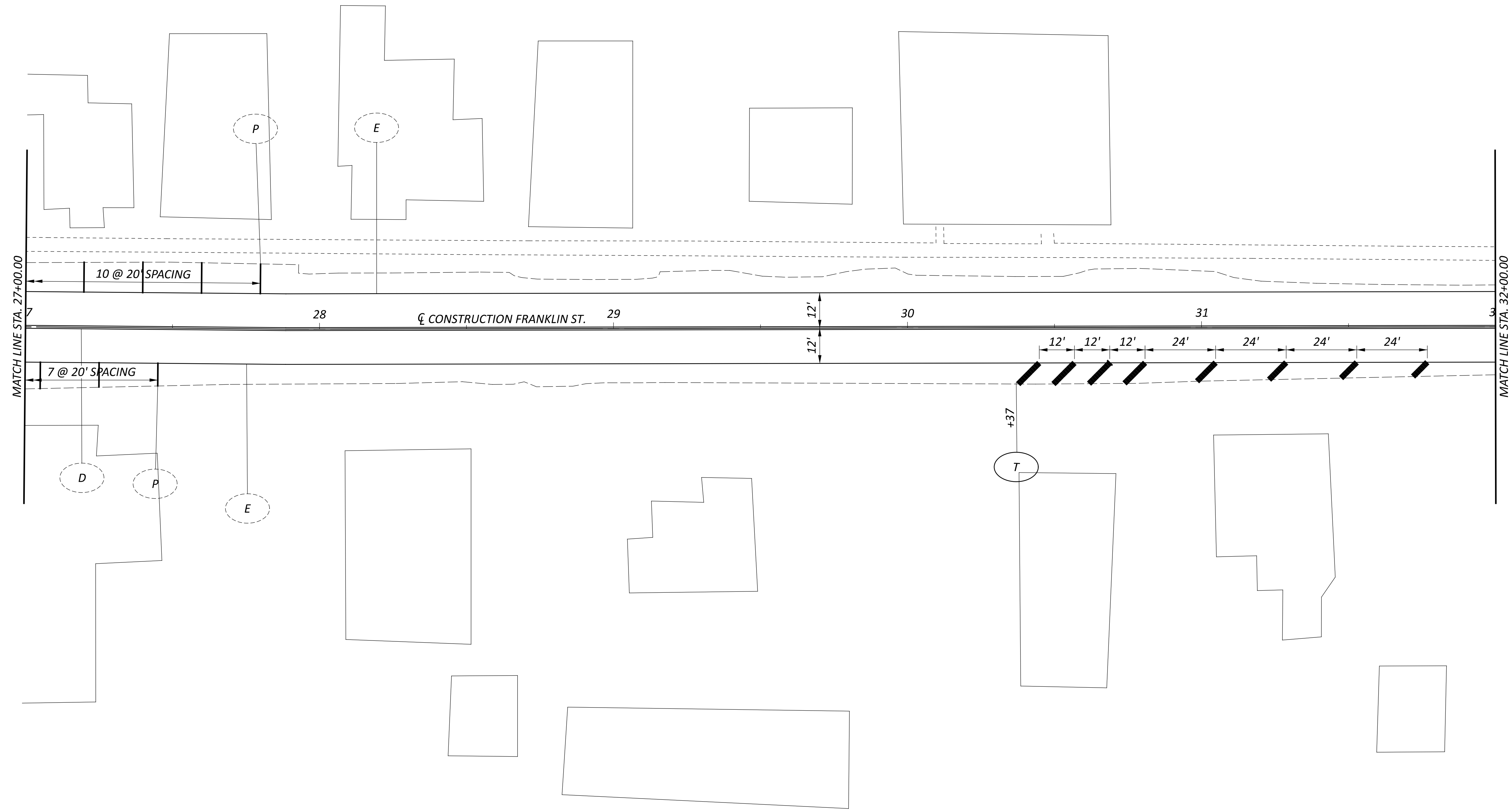


DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
31	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP104_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:47 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP104.dgn

SEE SHEET 29 FOR SIGNS AND PAVEMENT MARKING LEGEND



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

DESIGN AGENCY

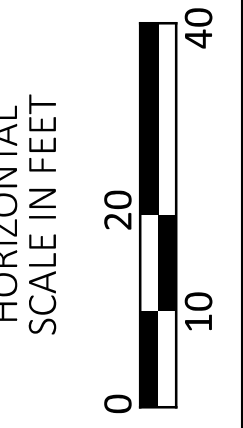
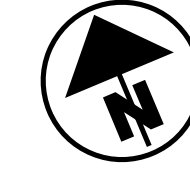
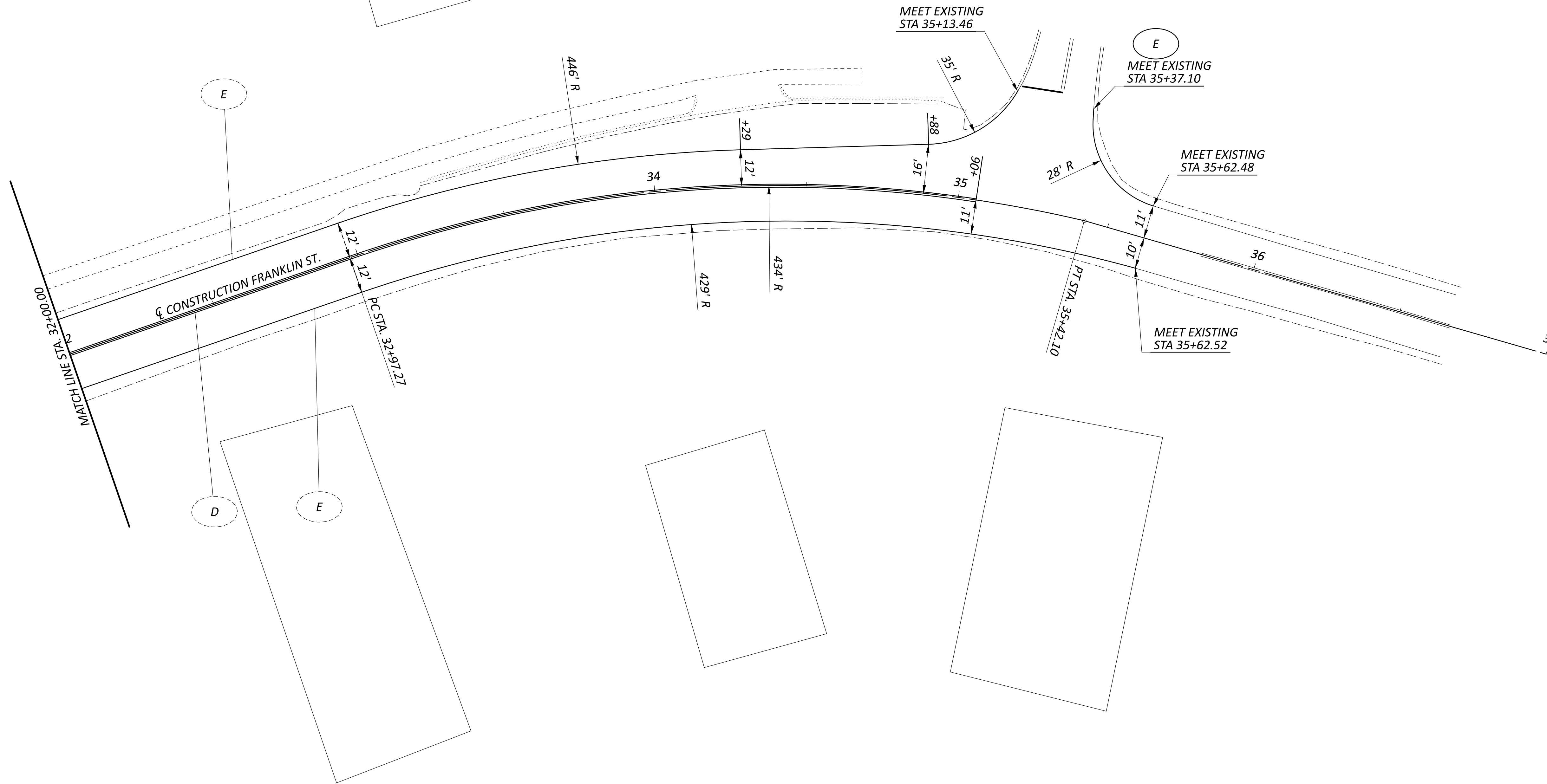


DESIGNER	AA
REVIEWER	BMG 07/19/23
PROJECT ID	125940
SHEET	TOTAL
32	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP105_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:47 PM USER: bgresel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP105.dgn

SEE SHEET 25 FOR PAVEMENT MARKING LEGEND



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

DESIGN AGENCY



DESIGNER
 AA

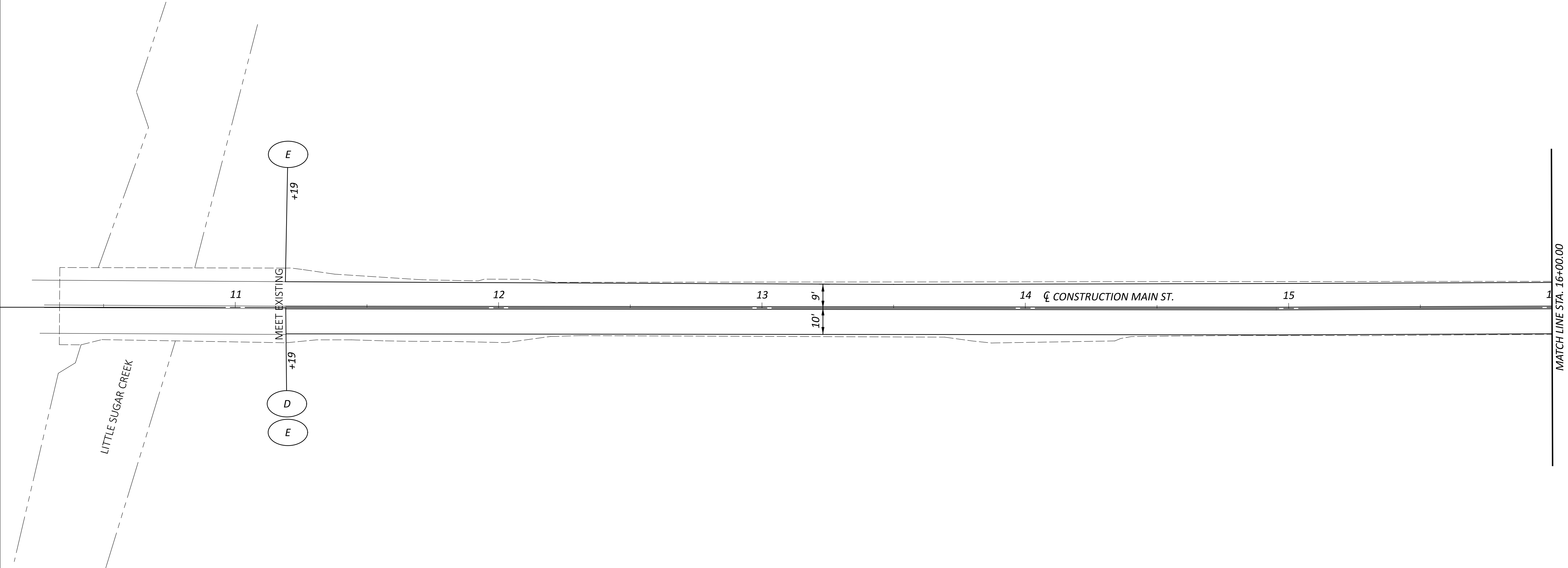
REVIEWER
 BMG 07/19/23

PROJECT ID
 125940

SHEET	TOTAL
33	47

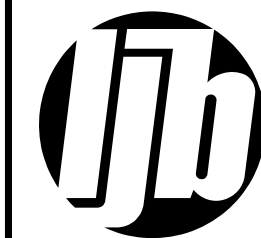
FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP201.PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:48 PM USER: bgresnel
Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP201.dgn



SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND

DESIGN AGENCY



DESIGNER
AA

REVIEWER
BMG 07/19/23

PROJECT ID
125940

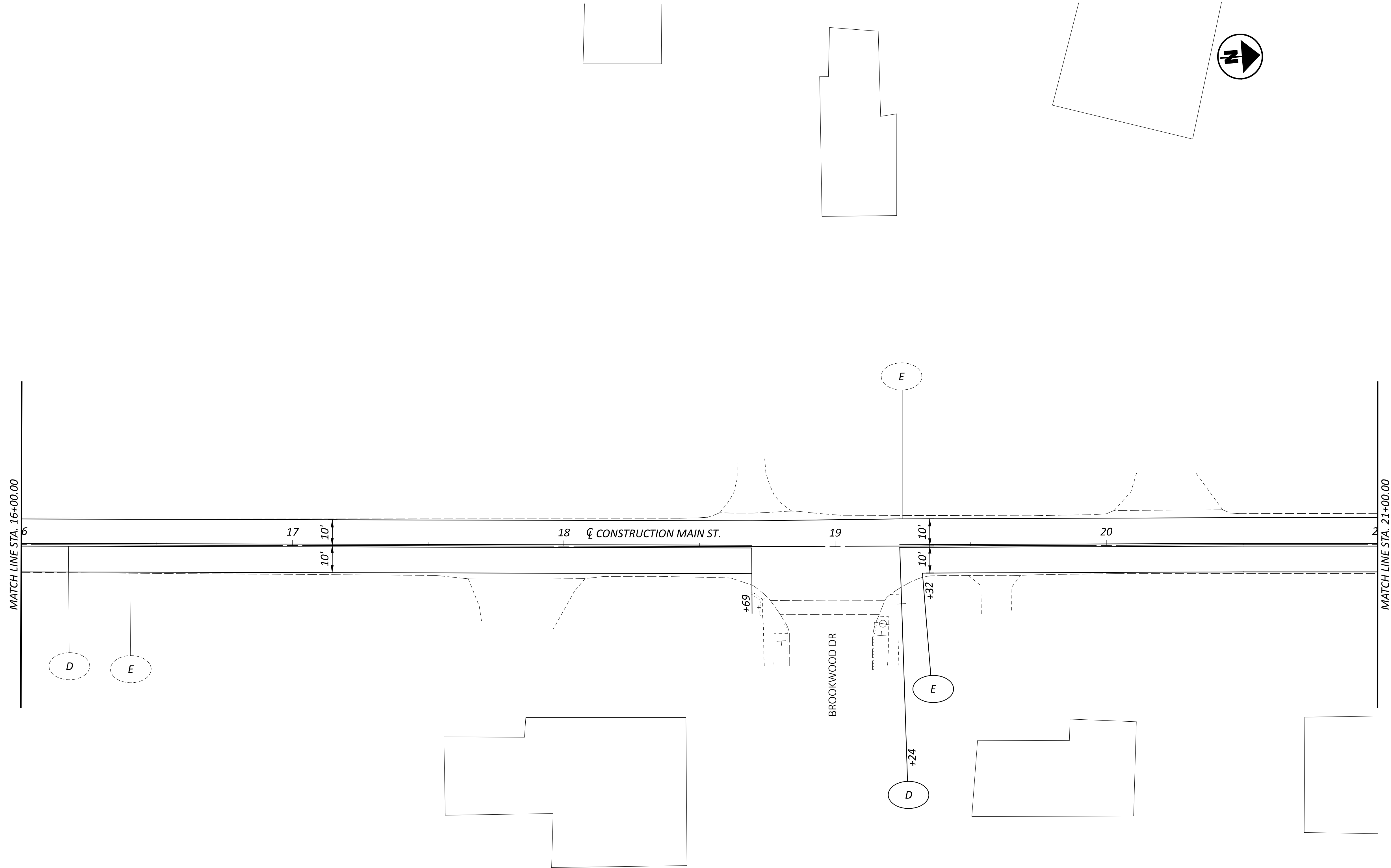
SHEET TOTAL
34 47

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

HORIZONTAL
SCALE IN FEET
0 10 20 40

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP202.PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:49 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP202.dgn



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

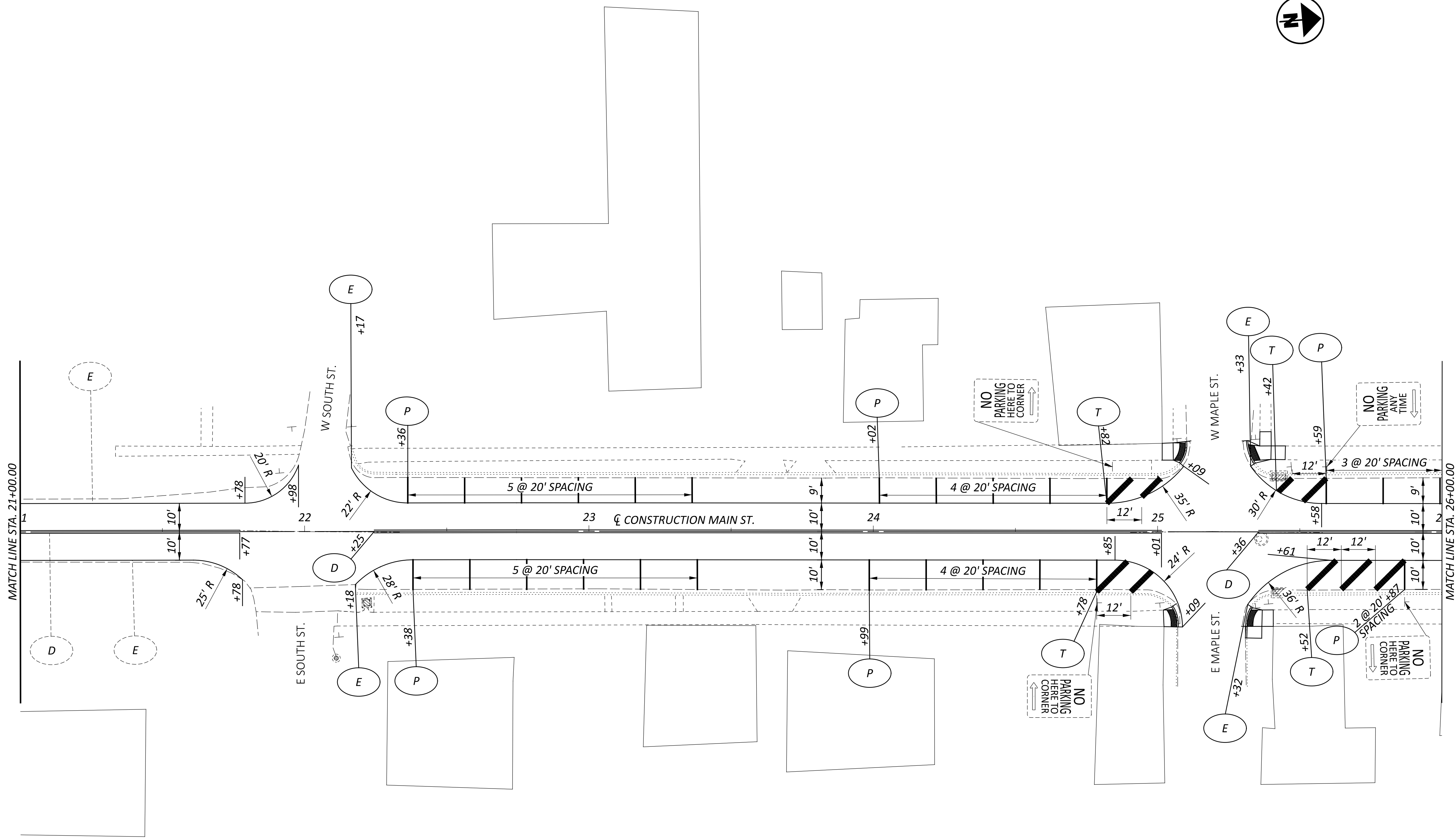
PROJECT ID
 125940

SHEET	TOTAL
35	47

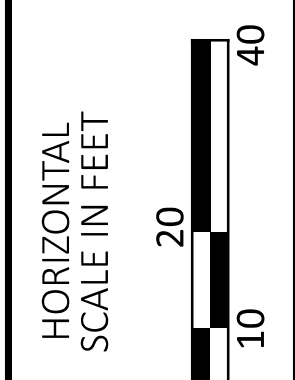


FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP203.PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:50 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP203.dgn



SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



TRAFFIC CONTROL PLAN
 STA. 21+00 TO STA. 26+00

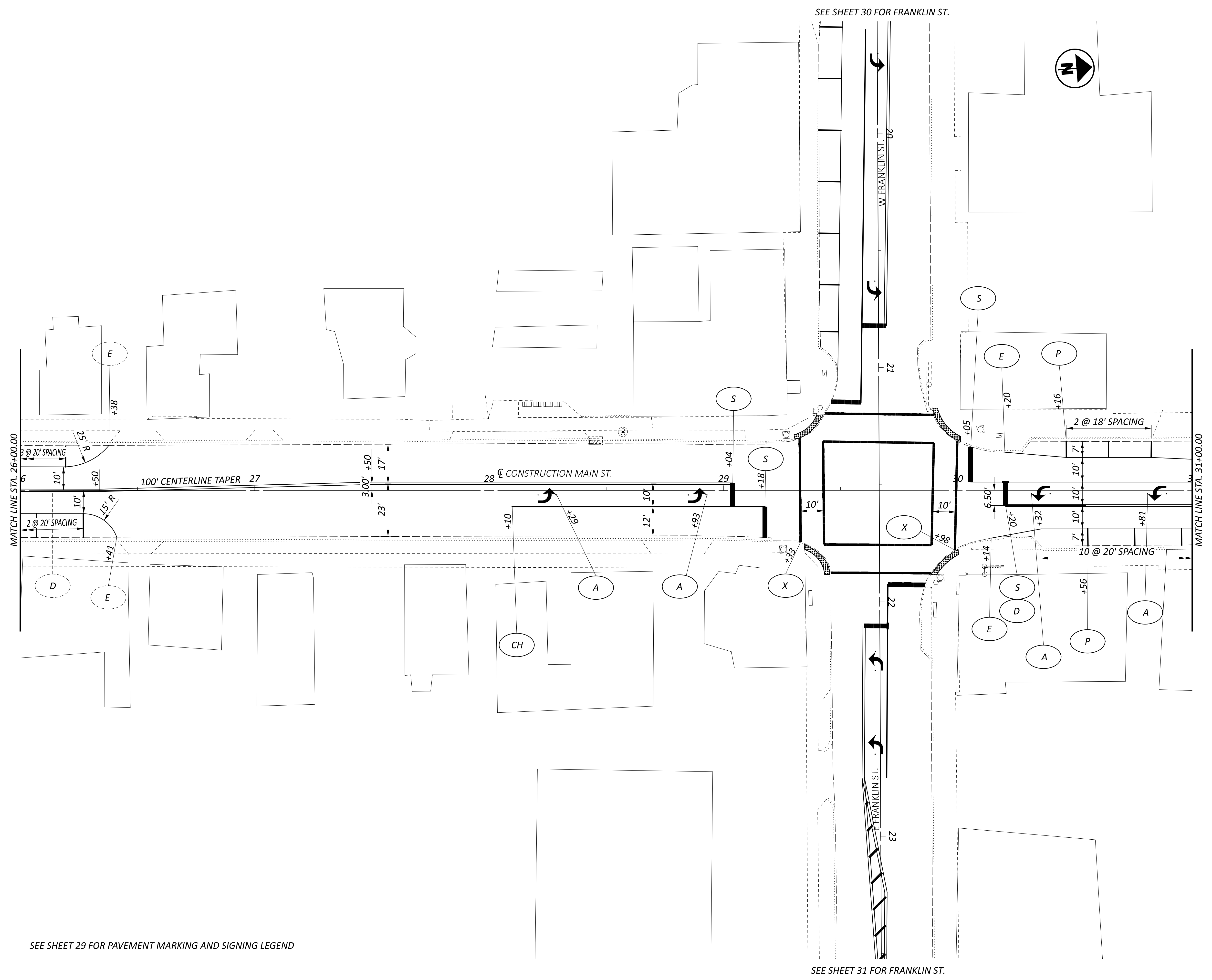
DESIGN AGENCY



DESIGNER	AA
REVIEWER	
BMG 07/19/23	
PROJECT ID	125940
SHEET	TOTAL
36	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

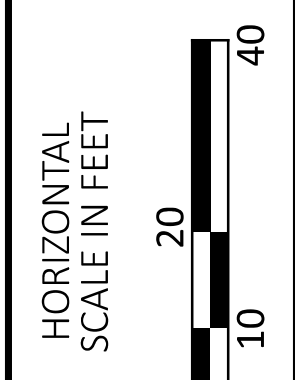
MODEL: 125940_TP204_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:50 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP204.dgn



SEE SHEET 30 FOR FRANKLIN ST.

SEE SHEET 31 FOR FRANKLIN ST.

SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



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

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

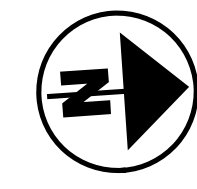
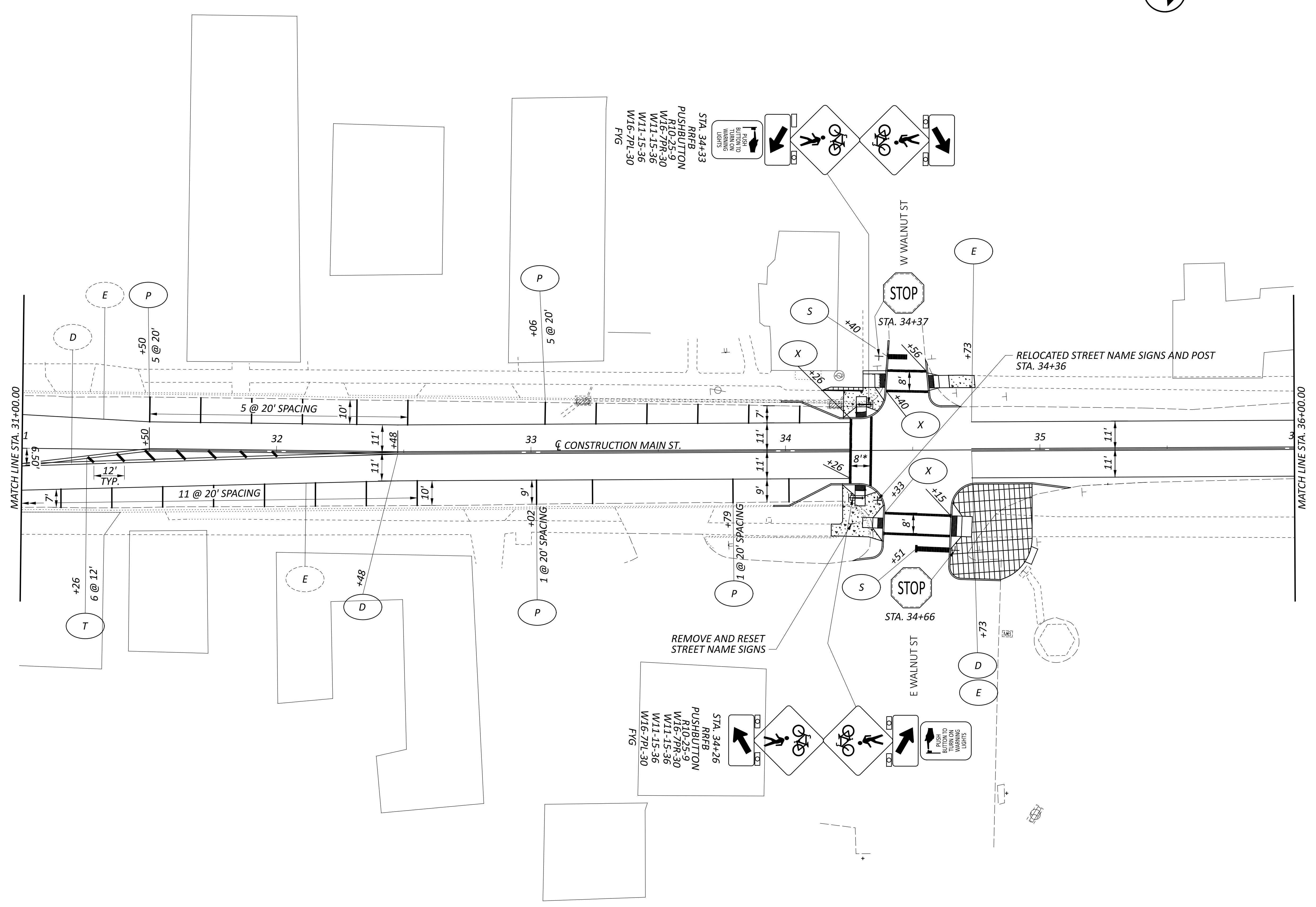
125940

SHEET TOTAL

37 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP205_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:51 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP205.dgn



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

DESIGN AGENCY



DESIGNER
AA

REVIEWER
BMG 07/19/23

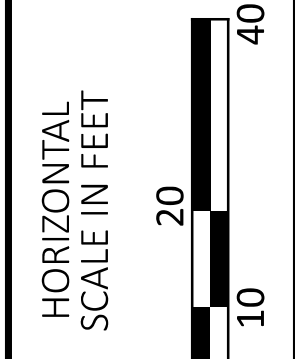
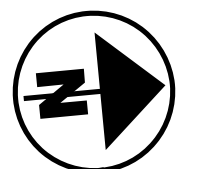
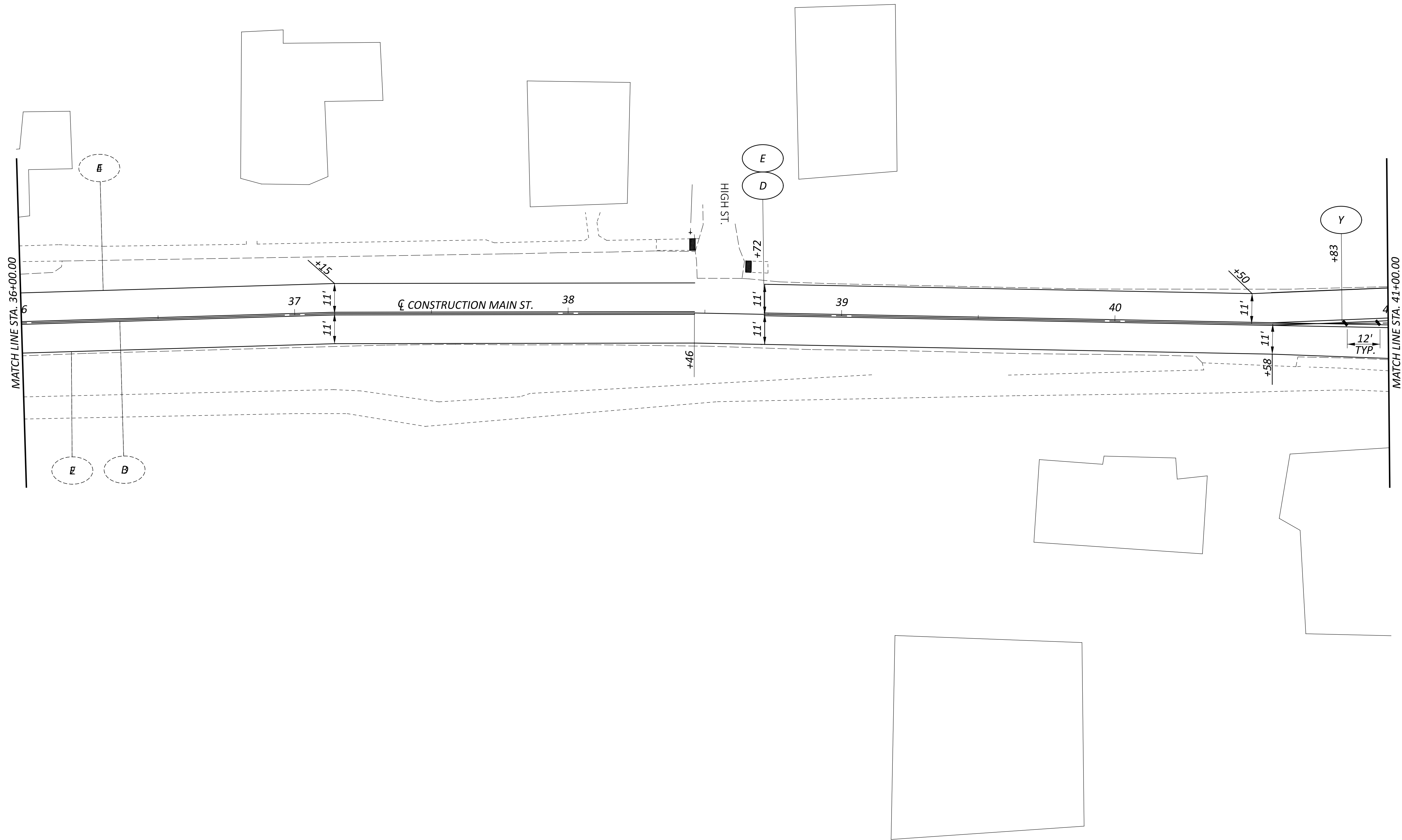
PROJECT ID
125940

SHEET	TOTAL
38	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP206 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:52 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP206.dgn

SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



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

DESIGN AGENCY



DESIGNER
AA

REVIEWER
BMG 07/19/23

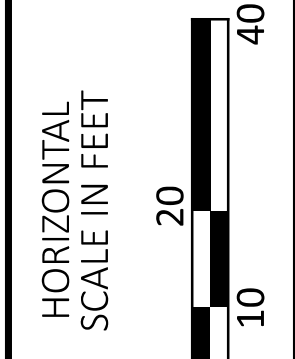
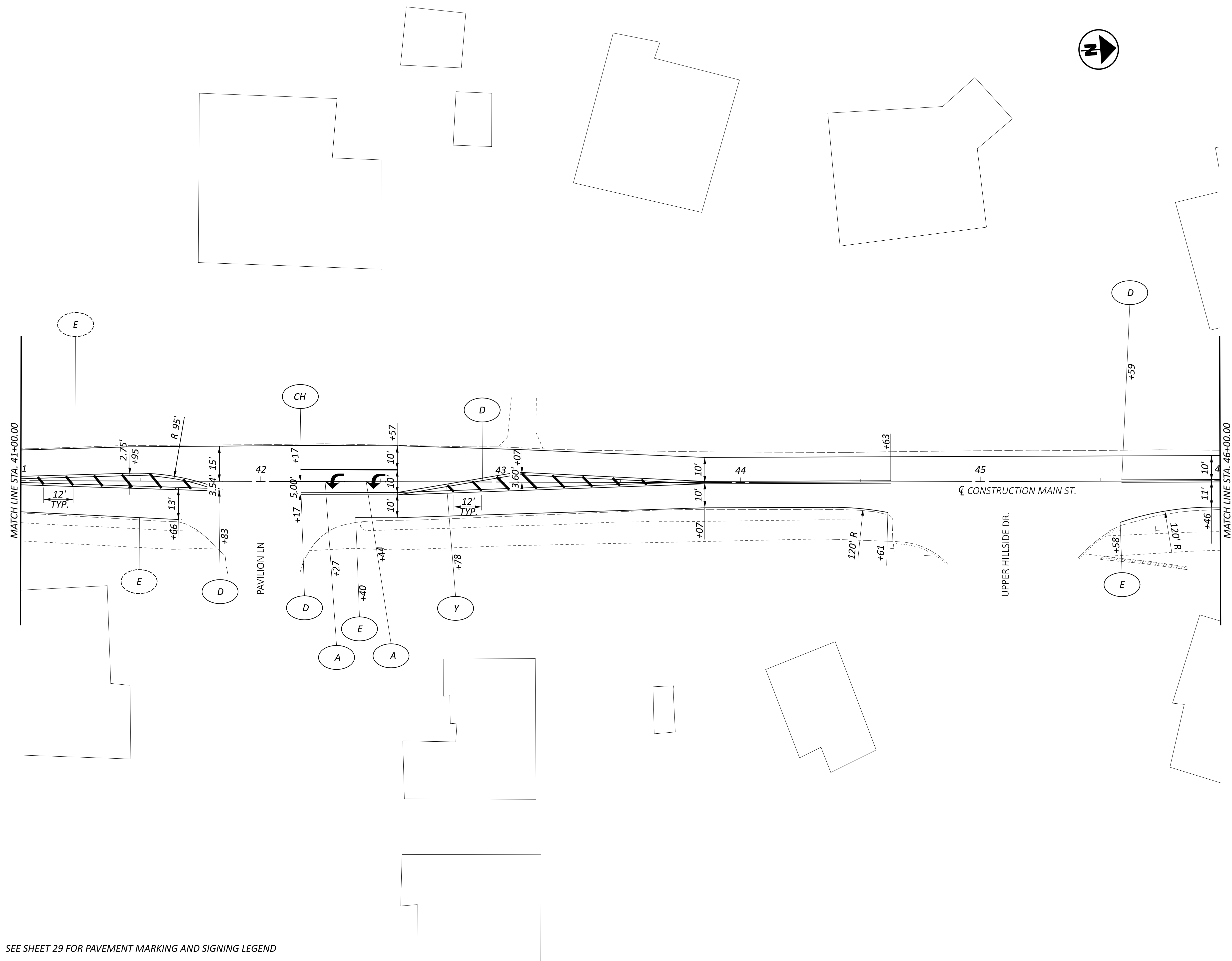
PROJECT ID
125940

SHEET	TOTAL
39	47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP207_PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:53 PM USER: bgressel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP207.dgn

SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



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

DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

PROJECT ID

125940

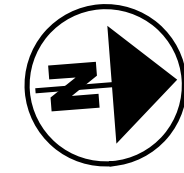
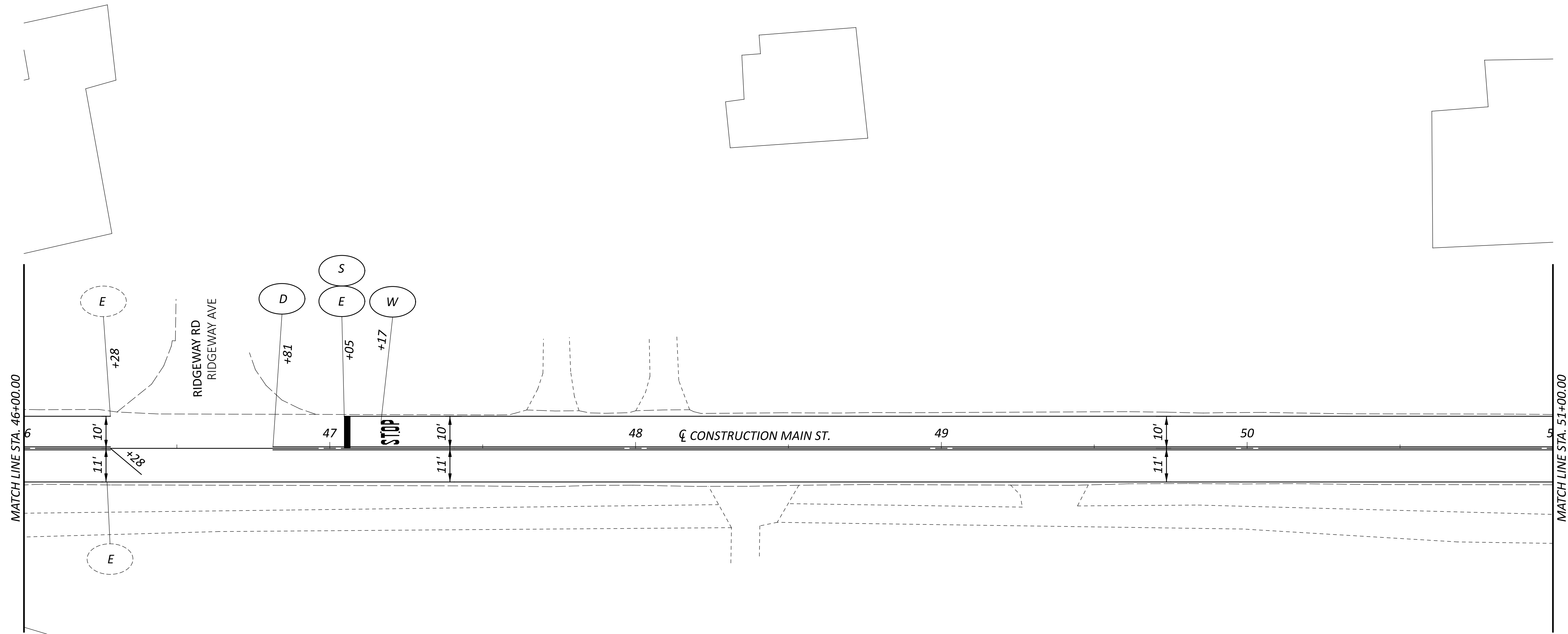
SHEET TOTAL

40 47

FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP208.PAPER: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:54 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP208.dgn

SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



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

DESIGN AGENCY

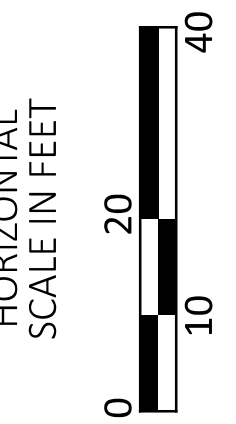


DESIGNER
AA

REVIEWER
BMG 07/19/23

PROJECT ID
125940

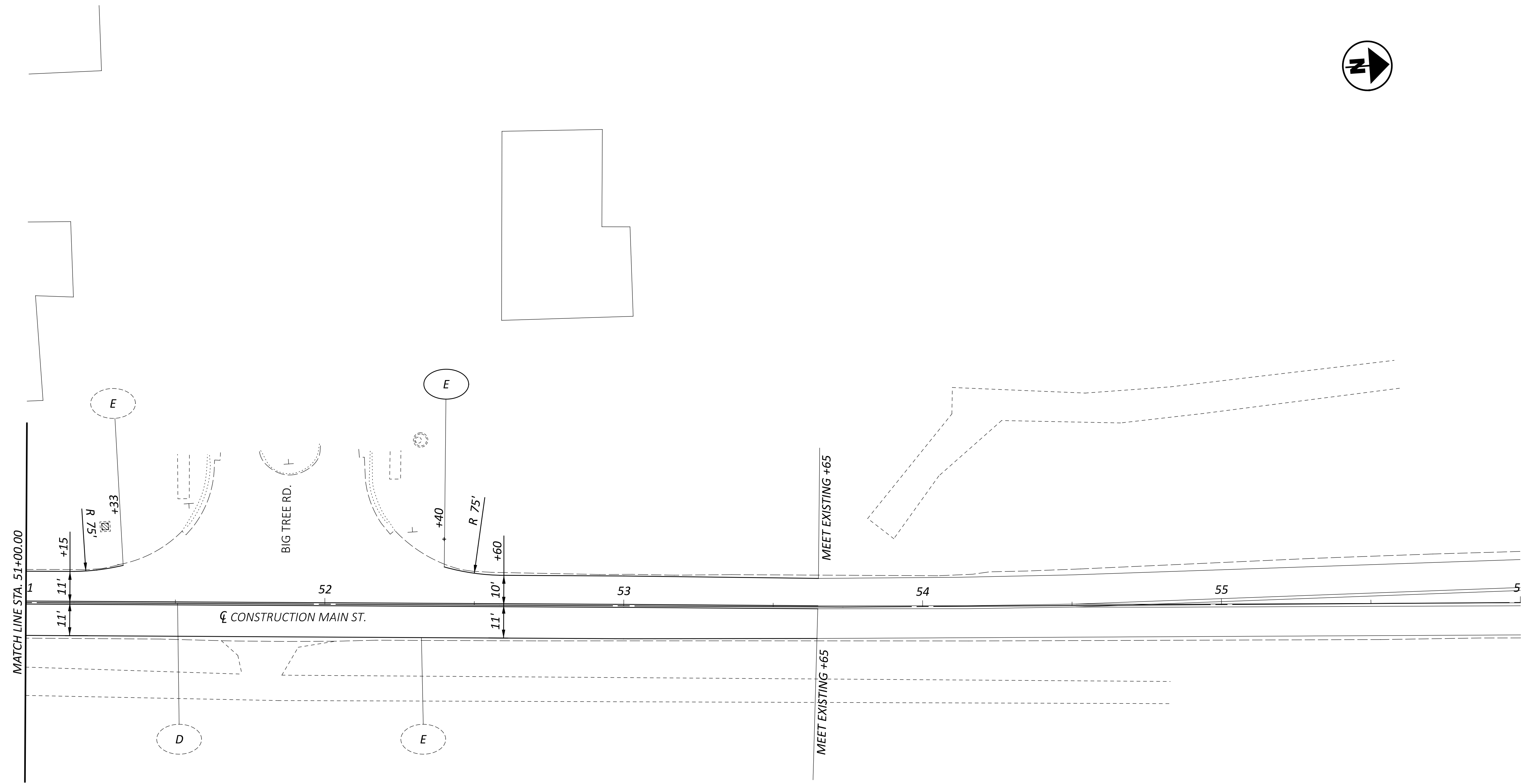
SHEET	TOTAL
41	47



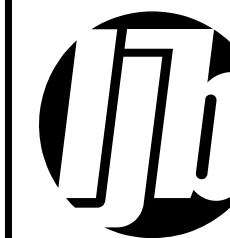
FRANKLIN AND MAIN STREET IMPROVEMENTS

MODEL: 125940_TP209 PAPER SIZE: 34x22 (in.) DATE: 8/11/2023 TIME: 2:33:54 PM USER: bgessel
 Q:\City of Bellbrook\0125940A.00 - Franklin & Main Resurfacing\125940\400-Engineering\Traffic\Sheets\125940_TP209.dgn

SEE SHEET 29 FOR PAVEMENT MARKING AND SIGNING LEGEND



DESIGN AGENCY



DESIGNER

AA

REVIEWER

BMG 07/19/23

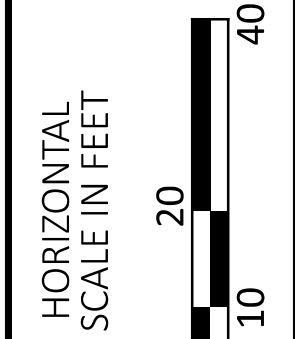
PROJECT ID

125940

SHEET TOTAL

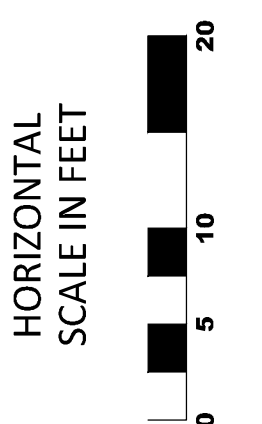
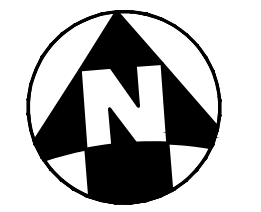
42 47

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



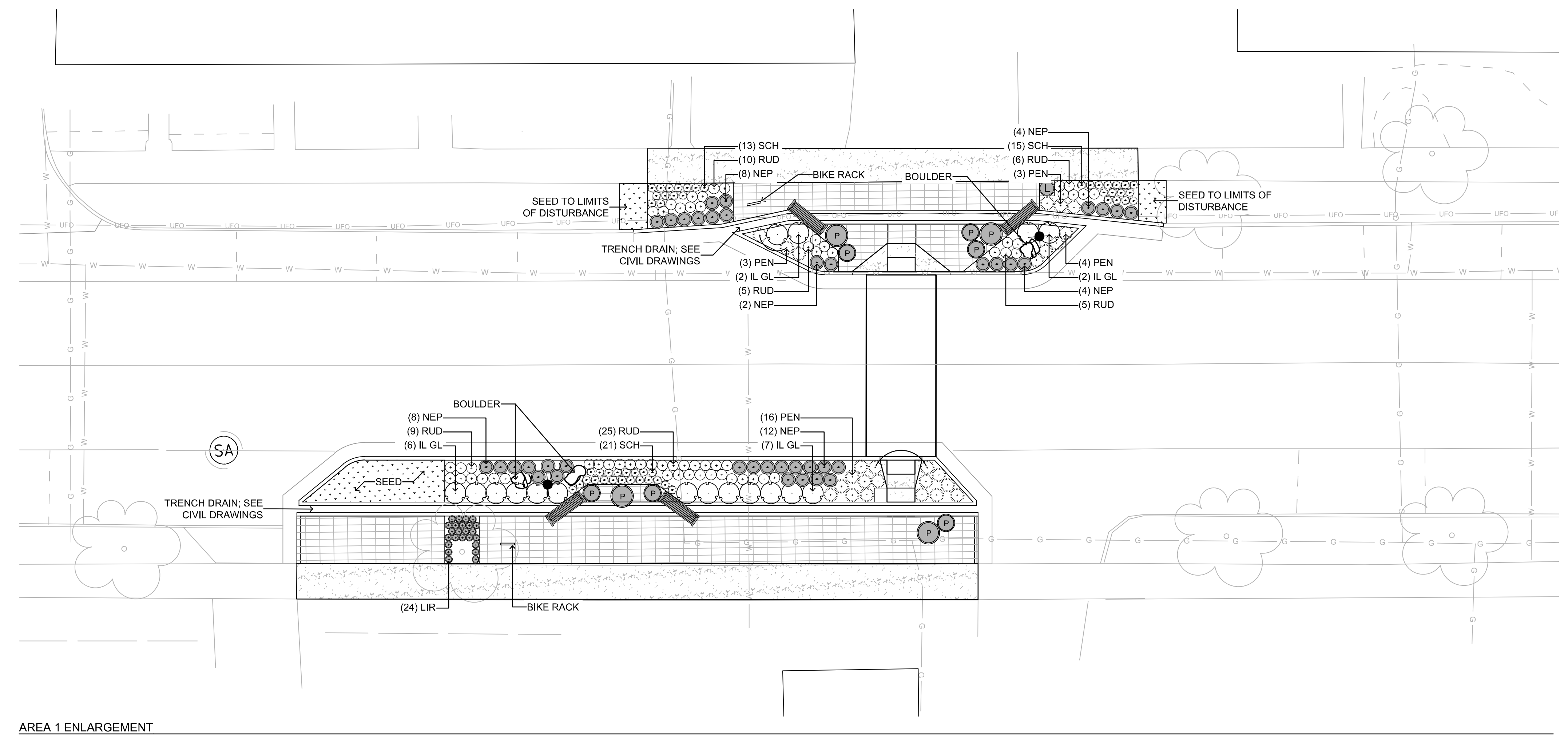
KEY	ITEM	UNIT	DESCRIPTION	SIZE	QTY.	COMMON NAME	SPACING
	659E10001	SF	SEEDING, AS PER PLAN		150	TURF SEED	
	661E00501	CY	MULCH, AS PER PLAN		4	MULCH	
LIR	661E14001	EACH	PERENNIALS (LIRIOPE MUSCARI), AS PER PLAN	#1 CONT.	24	LIRIOPE	12" O.C.
NEP	661E14001	EACH	PERENNIALS (NEPETA FAASSENII 'CATS MEOW'), 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 (PENNISSETUM 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	

KEY MAP: 1" = 200' - 0"



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



AREA 1 ENLARGEMENT

REF NO.	SHEET NO.	STATION TO STATION	659		661		661		661		661		661		661		690		690		690		690	
			SY	CY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
1		TO	17	4	24	38	49	60	60	17														
2			53	3	57	21	36	21	38	8														
TOTALS			70	7	81	59	85	47	98	25														


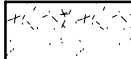
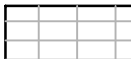








DESIGN AGENCY

 THE KLEINGERS GROUP
 CIVIL ENGINEERING
 SURVEYING
 LANDSCAPE ARCHITECTURE
 2225 Centre Plaza Pl.
 Suite 2000
 48103-1000
 (248) 850-7000

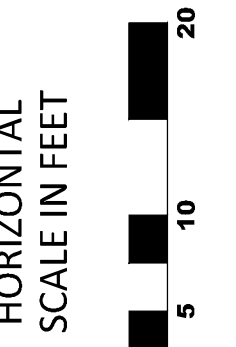
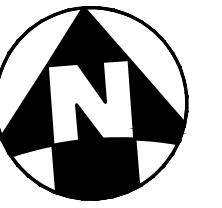
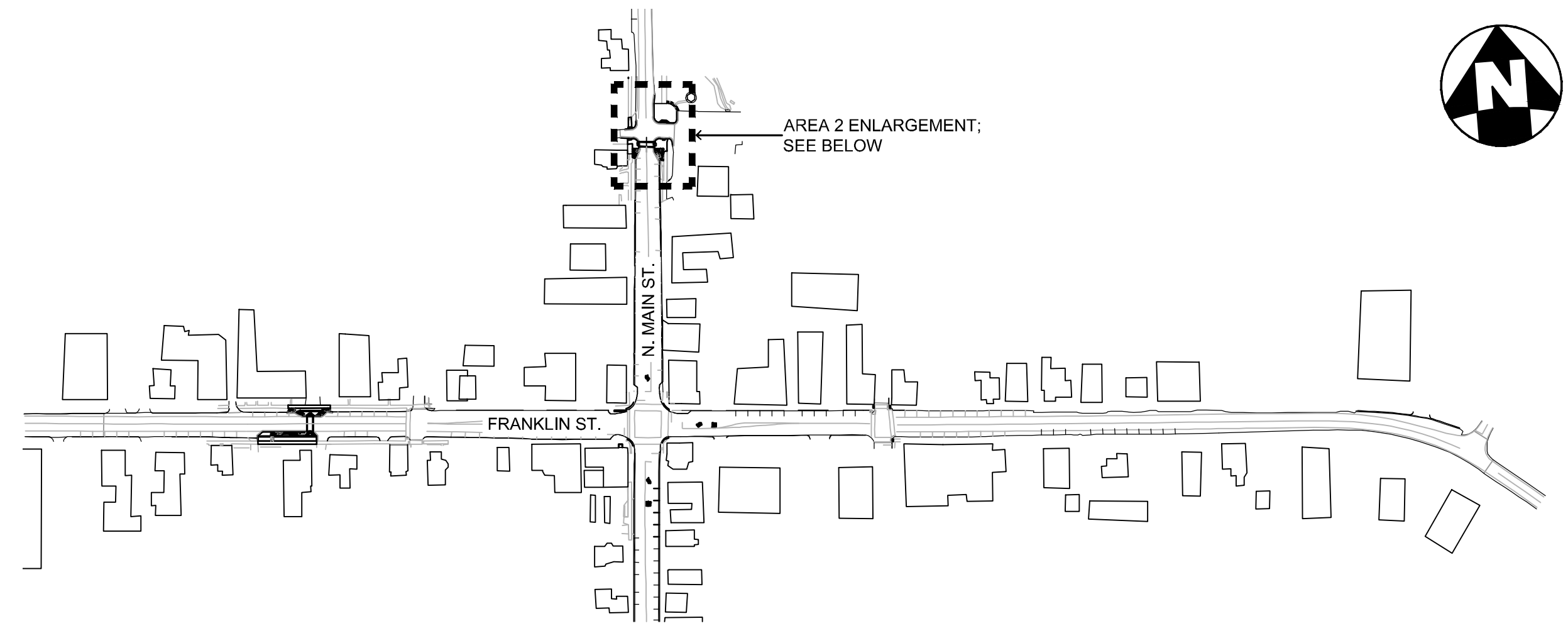
DESIGNER
 NTH
 REVIEWER
 BMG 08-11-23
 PROJECT ID
 125940
 SHEET TOTAL
 43 47

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	

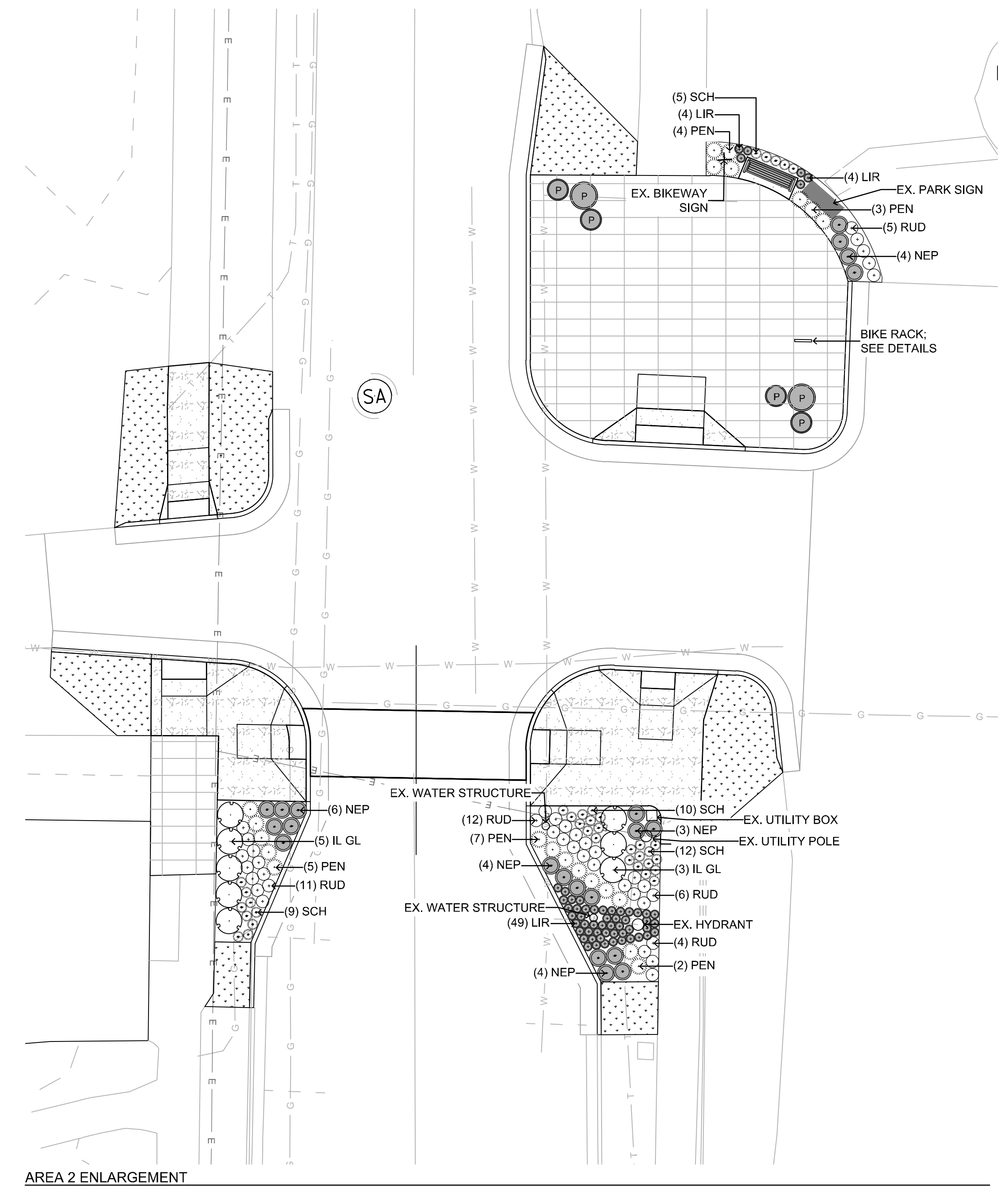
LEGEND

-  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



DESIGN AGENCY

DESIGNER
NTH

REVIEWER

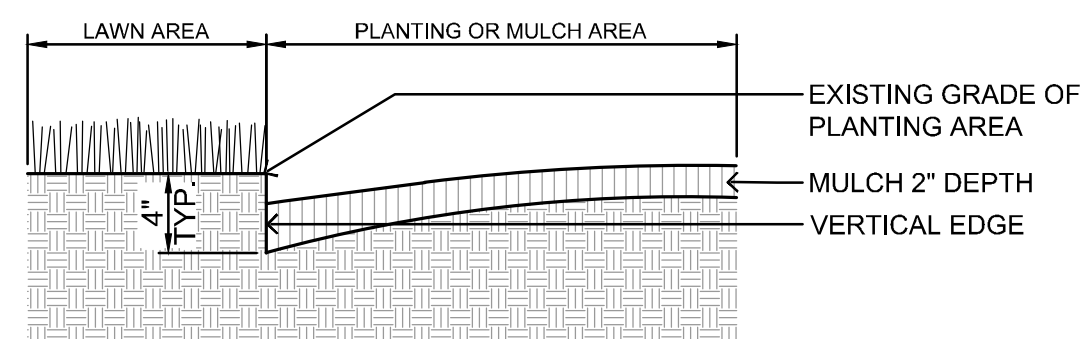
BMG 08-11-23

PROJECT ID

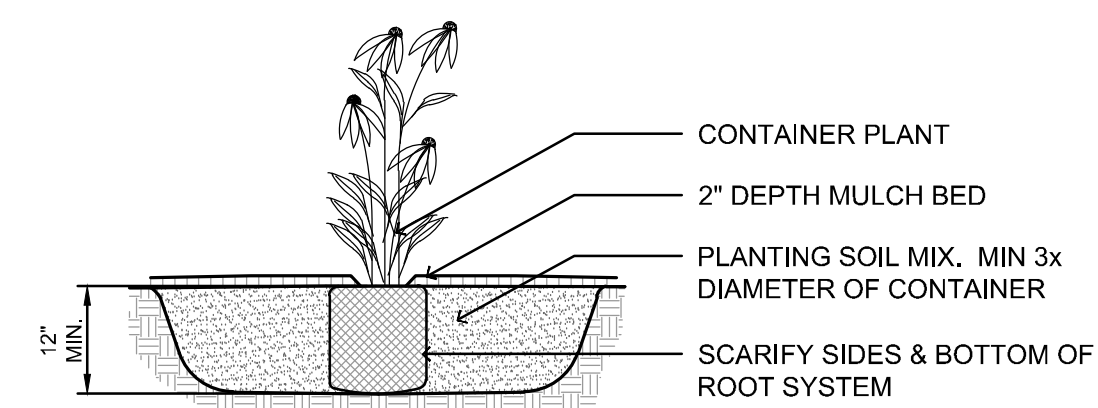
125940

SHEET TOTAL

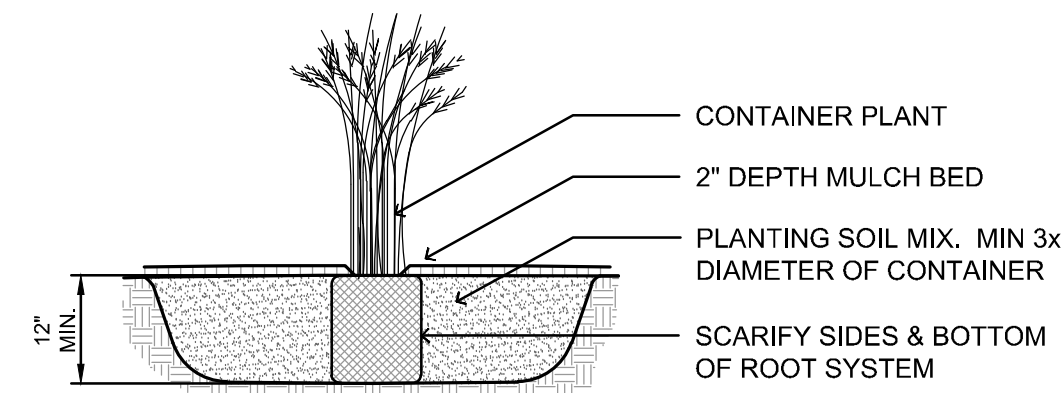
44 47



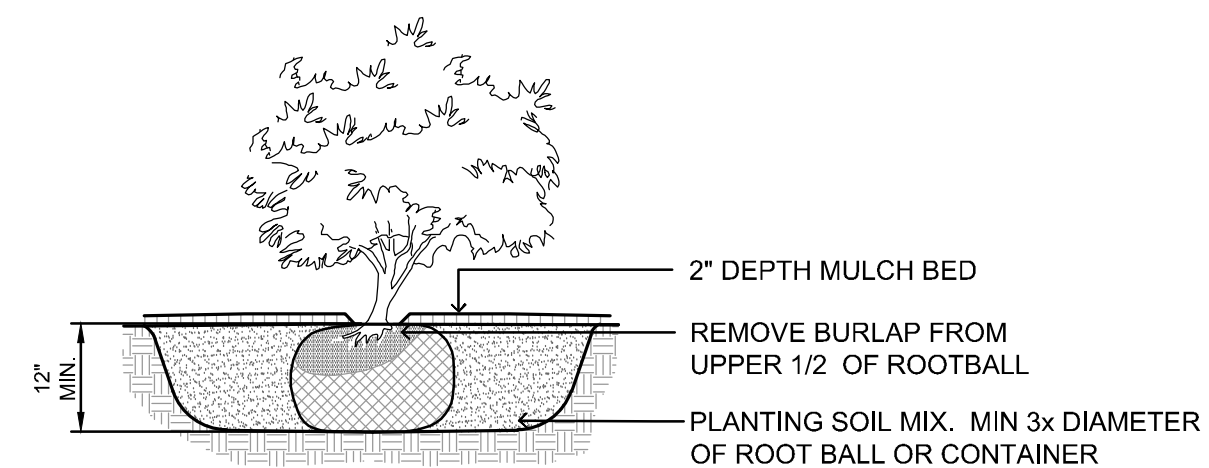
1 PLANTING BED EDGING DETAIL
N.T.S.



2 PERENNIAL PLANTING
N.T.S.



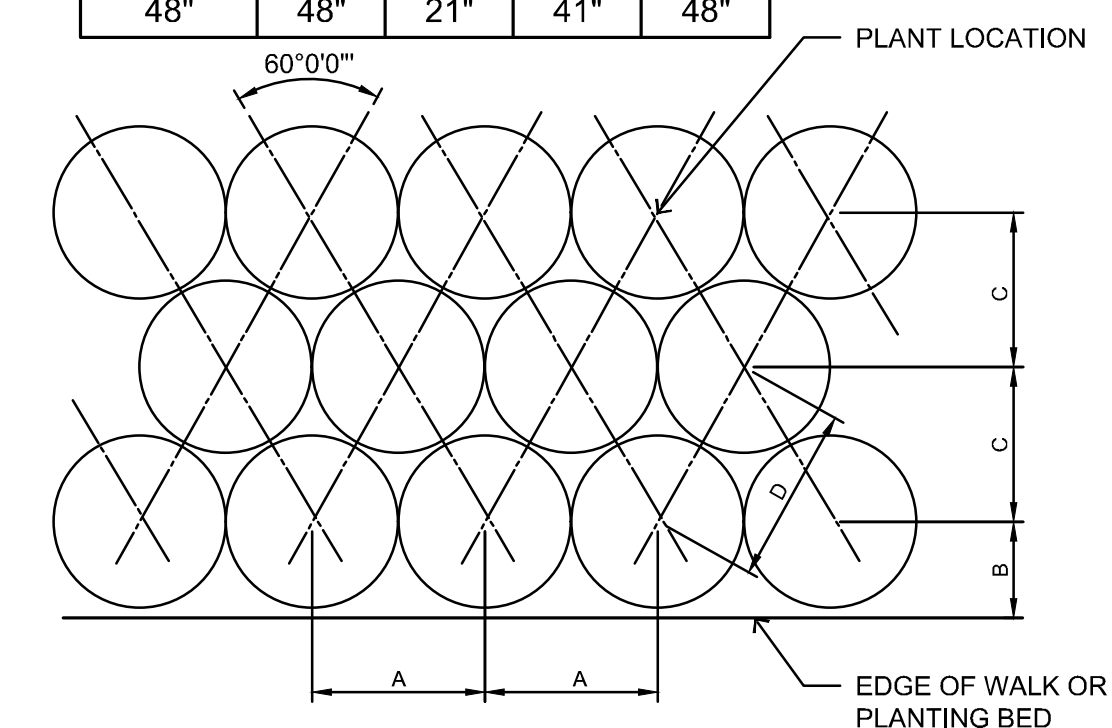
3 ORNAMENTAL GRASS PLANTING
N.T.S.



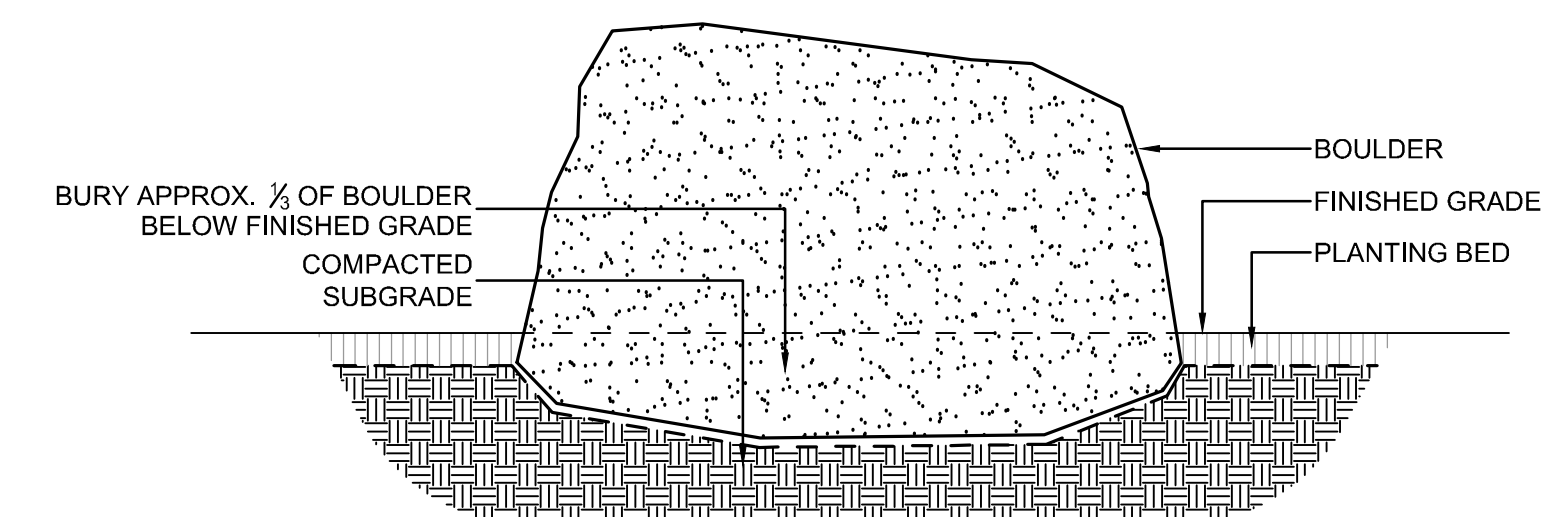
4 SHRUB PLANTING
N.T.S.

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.

DESIGN AGENCY

DESIGNER

NTH

REVIEWER

BMG 08-11-23

PROJECT ID

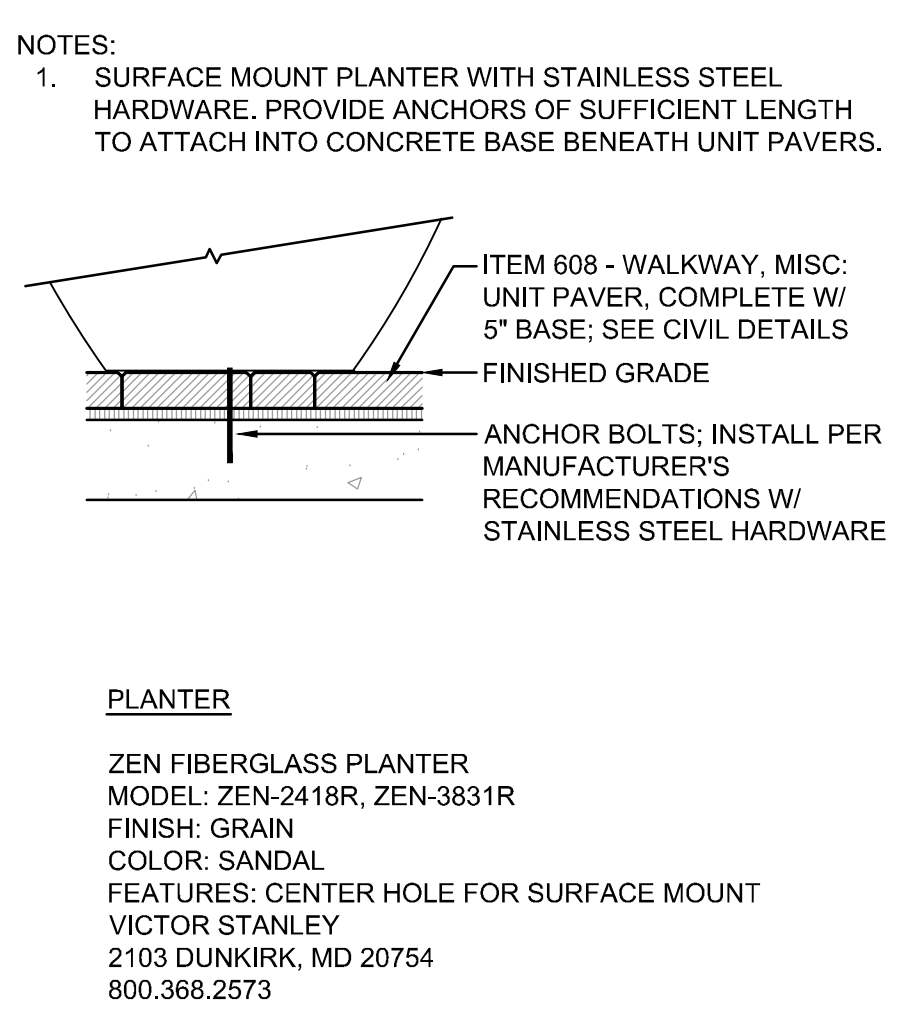
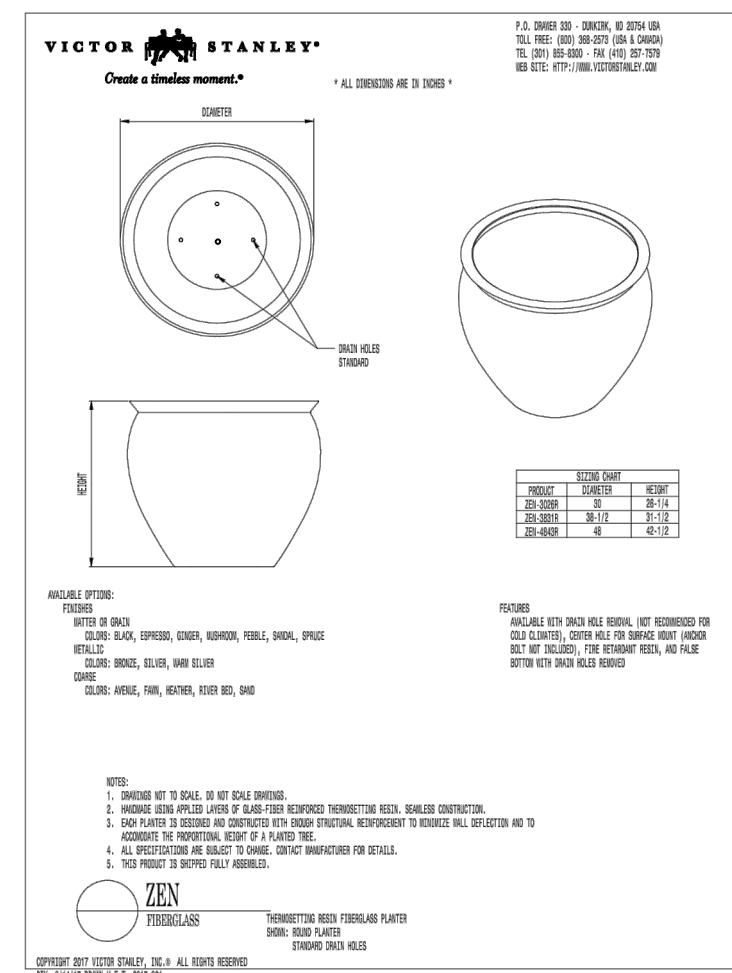
125940

SHEET

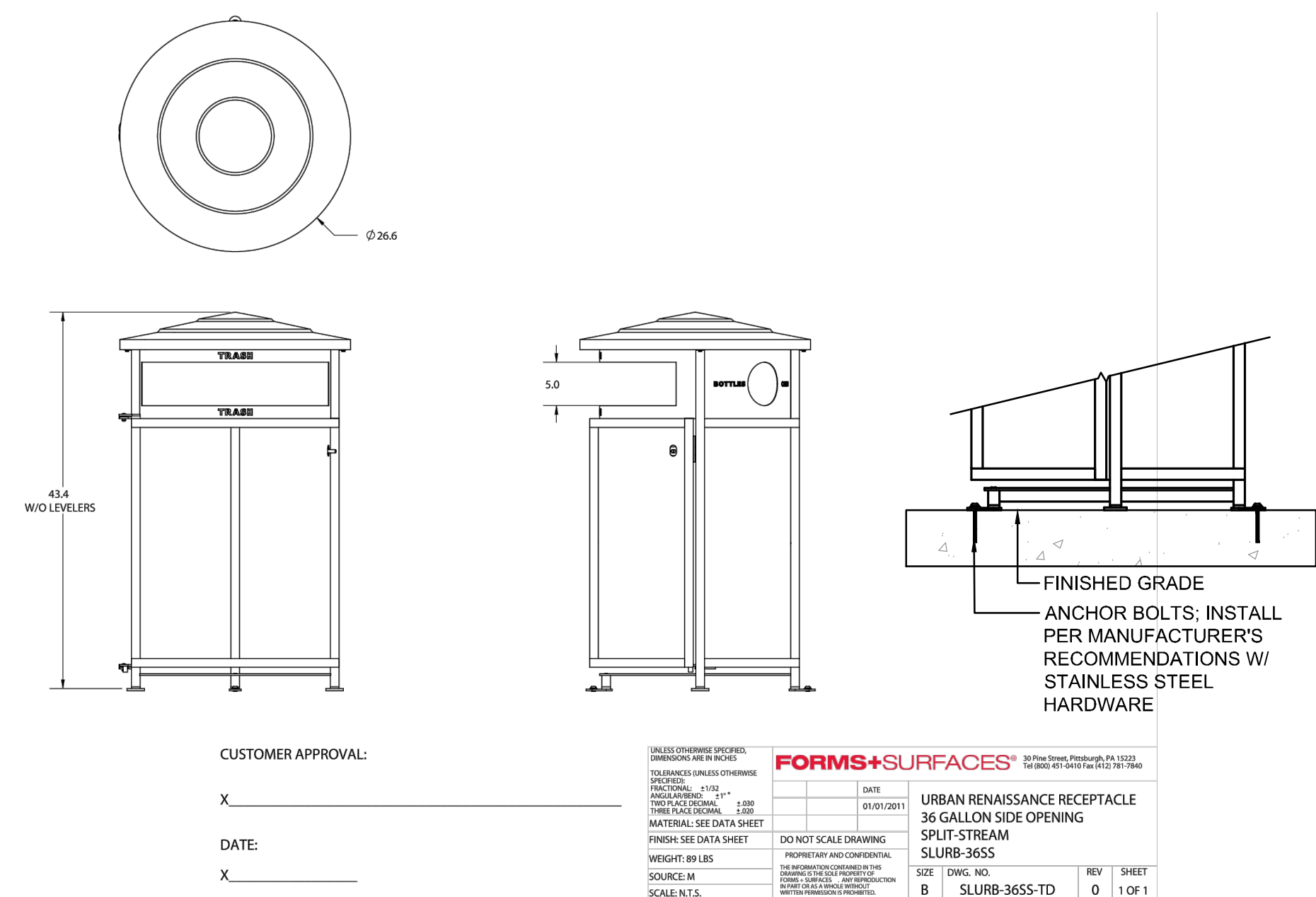
45

TOTAL

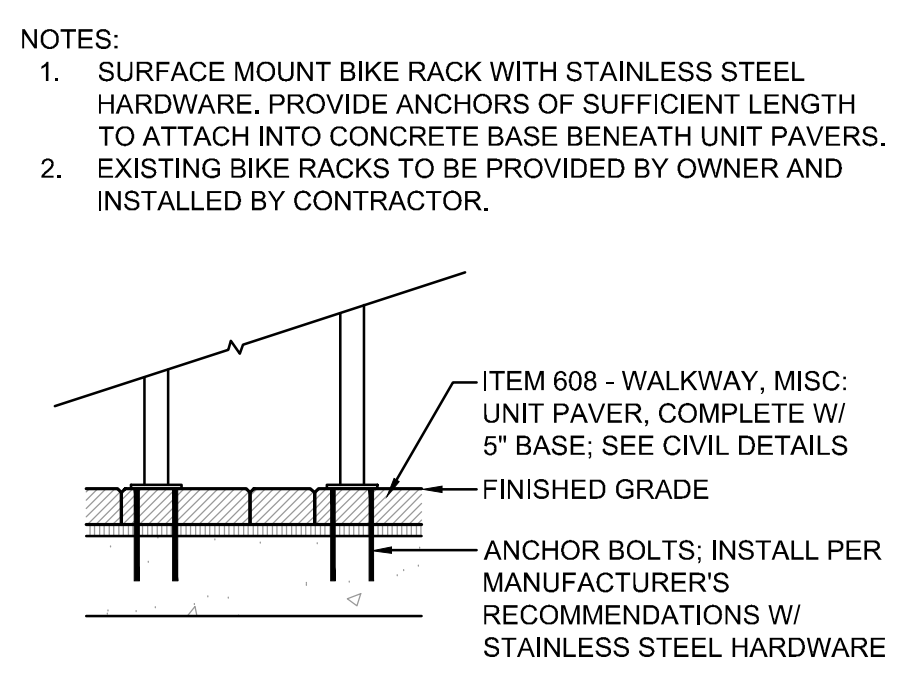
47



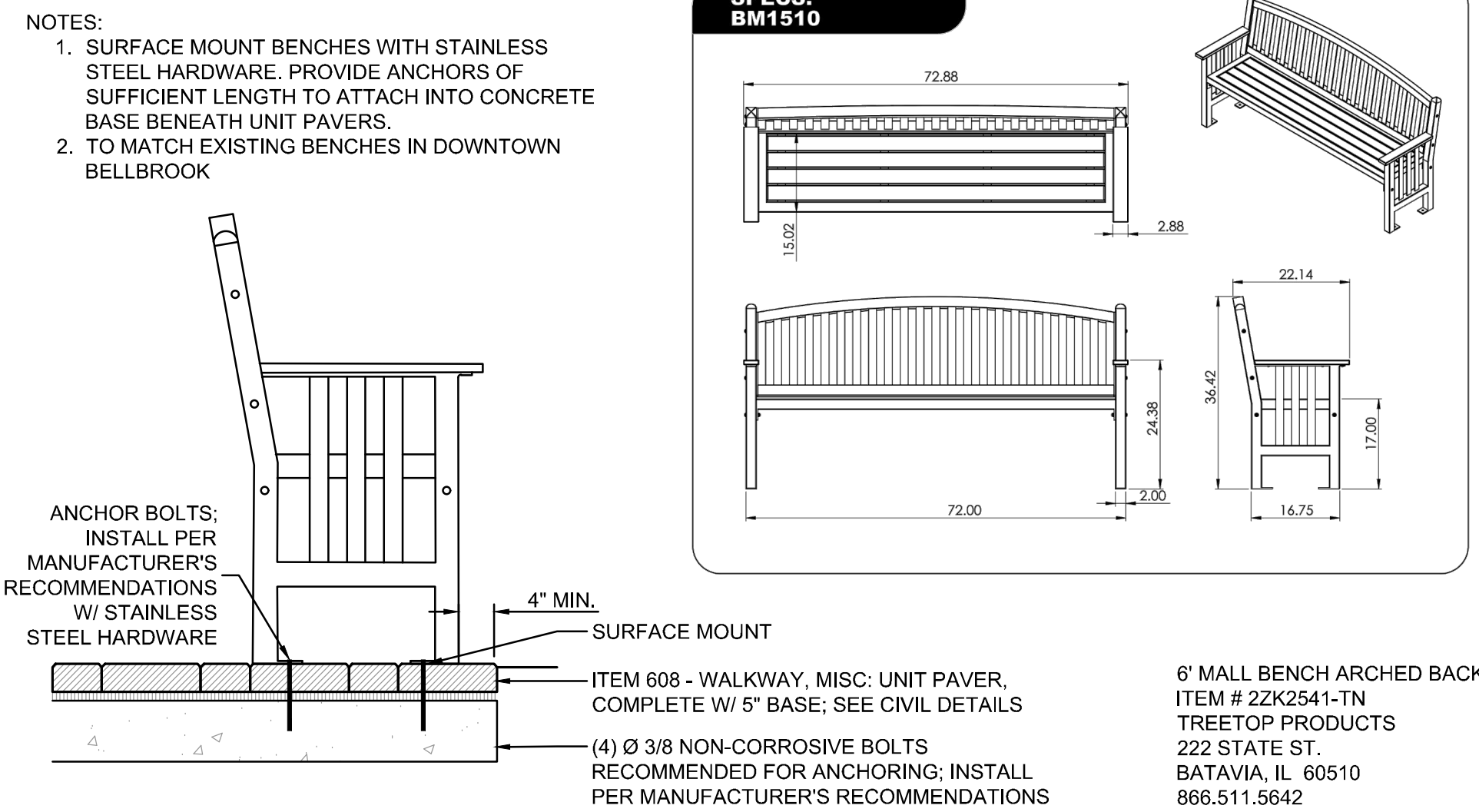
① ITEM 690 SPECIAL - PLANTER
 N.T.S.



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



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



④ ITEM 690 SPECIAL - BENCH
 N.T.S.

DESIGN AGENCY	
DESIGNER	NTH
REVIEWER	
PROJECT ID	BMG 08-11-23
SHEET	125940
TOTAL	46
	47

GENERAL NOTES

- EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
- 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 CONCRETE FORMS SHALL BE FIELD STAKED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONCRETE INSTALLATION.
- ALL HORIZONTAL AND VERTICAL LAYOUT SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE TO ENSURE GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
- PROVIDE ISOLATION JOINT WHERE CONCRETE PAVING ABUTS BUILDINGS, COLUMNS, AND STRUCTURES. VERIFY COLOR OF SEALANT WITH OWNER'S REPRESENTATIVE.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES, AND PLANS FOR LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES.
- 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:

- PART TOPSOIL PER ITEM 659.05
- PART SPHAGNUM PEAT MOSS
- 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

- 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.
- 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.
- ALL LANDSCAPE BEDS TO RECEIVE A GRANULAR PRE-EMERGENT WEED PREVENTATIVE PRIOR TO MULCHING PER ODOT ITEM 661. (PREEN, TREFLAN, OR ACCEPTED EQUIVALENT)
- 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.
- PLANT IN ACCORDANCE WITH PLAN NOTE ITEM 661: PLANTING TREES, SHRUBS, AND GROUND COVER AS PER PLAN AND ODOT L.A. 1.1 AND LA 1.2 STANDARD CONSTRUCTION DRAWINGS.
- SIZE OF PIT VARIES WITH SIZE OF ROOT BALL.
- SPREAD FERTILIZER EVENLY IN SAUCER PRIOR TO PLANTING PER ODOT ITEM 661.
- ALL PLANT MATERIAL FURNISHED SHALL BE FULL, WELL BRANCHED, WELL PROPORTIONED, AND HAVE A VIGOROUS, WELL DEVELOPED ROOT SYSTEM CAPABLE OF SUSTAINING VIGOROUS GROWTH.
- 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.
- ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED.
- IF SUBSTITUTIONS ARE REQUIRED, ALL SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- OBSTRUCTIONS: NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF UNEXPECTED ROCKS OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED DURING EXCAVATION.
- 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.
- THE CONTRACTOR SHALL CONDUCT WATERING OPERATIONS IN COMPLIANCE WITH ALL PROJECT SPECIFICATIONS AND SHALL PROTECT AGAINST WETTING OF THE PAVEMENT SURFACE.
- 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.
- REMOVE ALL TWINE, ROPE, BURLAP, AND WIRE FROM TOP HALF OF ROOTBALL.
- NOTIFY OWNER OR OWNER'S REPRESENTATIVE IF SUBSOIL CONDITIONS EVIDENCE UNEXPECTED WATER SEEPAGE OR RETENTION IN TREE OR SHRUB PIT.
- 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.

- 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.
- 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.
- 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