

**BLOOMINGTON TRAFFIC COMMISSION  
AGENDA**

**March 23, 2022**

**4:30 P.M. –In-person and Virtual Hybrid meeting  
City Hall, Council Chambers**

Online link: <https://bloomington.zoom.us/j/84280674363>

Meeting ID: 842 8067 4363

Dial in: +1 312 626 6799, 842 8067 4363# US (Chicago)

- I. Call to Order
- II. Approval of Minutes – February 23, 2022
- III. Communications from Commission
- IV. Public Comment\*
- V. Reports from Staff
- VI. Old Business\*
  - A. TC-21-07 Resolution 21-02 (Commission Member Alexander)
- VII. New Business\*
  - A. TC-22-01: Henderson Street modifications
  - B. TC-22-02: 17<sup>th</sup> Street Multiuse Path project
  - C. TC-22-03: 11<sup>th</sup> + 14<sup>th</sup> Streets and Walnut Street traffic signals
  - D. TC-22-04: Crosswalk projects
  - E. TC-22-05: Signal at Tapp Road and Deborah Drive
- VIII. Traffic Inquiries
- IX. Adjournment

*Next meeting – April 27, 2022 (subject to change depending on a meeting room conflict)*

*\*Action Requested/Public comment prior to any vote (limited to five minutes per speaker)*

**Auxiliary aids for people with disabilities are available upon request with adequate notice. Please call (812) 349-3429 or e-mail [human.rights@bloomington.in.gov](mailto:human.rights@bloomington.in.gov).**

**BLOOMINGTON TRAFFIC COMMISSION  
MINUTES**

**February 23, 2022**

**4:30 P.M. – Virtual Meeting**

Online link: <https://bloomington.zoom.us/j/89392665551>

Meeting ID: 893 9266 5551

Dial in: +1 312 626 6799, 893 9266 5551# US (Chicago)

- I. Call to Order:** 4:32pm  
Members present: David Hoff, Chris Etter, Greg Alexander, Sarah Ryterband, Andrew Cibor, Ryne Shadday  
Staff: Beth Rosenbarger
- II. Approval of Minutes – November 17, 2021**  
Move to approve the minutes: Hoff  
Second: Ryterband  
Yay: Hoff, Etter, Alexander, Ryterband, Cibor, Shadday  
Minutes approved: 6-0
- III. Communications from Commission**
- A. Election of Chair and Vice Chair:**  
**Chair:** Cibor asked Shadday if he would serve again, Shadday said he’s willing; Ryterband moved; Hoff seconded; yay: Hoff, Etter, Alexander, Ryterband, Cibor, Shadday; Shadday was elected Chair 6-0  
**Vice Chair:** Hoff nominated Ryterband as Vice Chair; Hoff moved to Ryterband as vice chair; Etter second. Yay: Hoff, Etter, Alexander, Cibor, Shadday, Ryterband. Ryterband was elected Vice Chair 6-0
- Cibor reported there was a fatal crash this past week at the intersection of State Road 45/46 and Kinser Pike. A person driving was
- IV. Public Comment\*** none
- V. Reports from Staff**
- A. 2022 Meeting Schedule:** Rosenbarger shared that it’s likely the next meeting is in-person/hybrid meeting.
- B. Corridor Study:** Rosenbarger shared that the City has released a Request for Information for a Corridor Study of College Avenue and Walnut Street. The Corridor Study RFI can be found online:  
<https://bloomington.in.gov/transportation/plan>
- VI. Old Business\***
- A. TC-21-07 Resolution 21-02 (Commission Member Alexander)**

Commission Member Alexander presented this proposal, which was introduced in 2021. Commission members asked questions including: will speed limit signs change driver behavior; what does Engineering think: what does planning think? Could we consider requiring that repaving a street triggers a reconsideration of the speed limit on the street?

Discussion led to a next step that Commission Member Alexander would rewrite the resolution to be more general, in order to require that the Engineering department reconsider the speed limit on a street anytime a project is pursued on that street. There might also be an option to start looking at speed limits on existing streets, where the speed limit could be changed in the near term.

**B. TC-21-08 District Representation on Commission (Commission Member Etter)**

Commission Member Etter said he thinks we should just let this go because it's hard enough to get people to serve on the Commission. Decided via discussion to not discuss this again. No vote needed.

**VII. New Business\*** none

**VIII. Traffic Inquiries:**

Ryterband asked about Moores Pike, and if speeds changed after the projects that have been installed there (a speed table, a speed sign, and others). Rosenbarger said she'll check with Engineering, see if there's before/after data, and report back.

Etter asked about the project on E. 17<sup>th</sup> Street. Cibor shared more information about the design of the project including the mulituse path, intersection improvements, and more. Alexander shared a link to where plans are available online: <http://galexander.org/x/17th.pdf>

**IX. Adjournment**

Hoff moved to adjourn, Etter seconded. 5:49pm.

*Next meeting – March 23, 2022 (subject to change depending on a meeting room conflict)*

*\*Action Requested/Public comment prior to any vote (limited to five minutes per speaker)*

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**RESOLUTION 21-01**

**A RESOLUTION ESTABLISHING THE POLICY BY WHICH MEMBERS OF THE TRAFFIC COMMISSION, ASSOCIATED STAFF, AND MEMBERS OF THE PUBLIC MAY PARTICIPATE IN MEETINGS BY ELECTRONIC MEANS OF COMMUNICATION**

WHEREAS, the Indiana General Assembly adopted HEA 1437 in the 2021 Regular Session, which amended Indiana Code (IC) 5-14-1.5-1 et seq. (Act) by amending IC 5-14-1.5-3.5 to prescribe new requirements by which members of the governing body of a public agency of a political subdivision may participate in a meeting by an electronic means of communication; and

WHEREAS, a member of the governing body may participate by any means of communication that:

- allows all participating members of the governing body to simultaneously communicate with each other; and
- except for a meeting that is an executive session, allows the public to simultaneously attend and observe the meeting; and

WHEREAS, the Act requires the governing body to adopt a written policy establishing the procedures that apply to a member's participation in a meeting by an electronic means of communication and allows the governing body to adopt procedures that are more restrictive than the procedures established by IC 5-14-1.5-3.5; and

WHEREAS, the Bloomington Traffic Commission is an advisory body of the City of Bloomington, Indiana and wishes to adopt such a policy;

THEREFORE, BE IT RESOLVED BY THE TRAFFIC COMMISSION OF THE CITY OF BLOOMINGTON, MONROE COUNTY, INDIANA, THAT:

Section I. The Bloomington Traffic Commission's Rules and Procedures are modified to add a new Subsection under Section V entitled Subsection "E", which shall read as follows:

Section V. Procedure(s)

...

E. In accordance with Indiana Code sections 5-14-1.5-1 and 5-14-1.5-3.5, et seq., Traffic Commission meetings may be conducted electronically. The Traffic Commission adopted an electronic meetings policy via Resolution 21-01, which is incorporated into these Rules and Procedures by reference.

Section II. The Bloomington Traffic Commission hereby adopts the following policy on the participation of a member of the Commission, city staff, and members of the public in a meeting of the Traffic Commission by an electronic means of communication:

ELECTRONIC MEETINGS POLICY

Section 1.

- (a) The provisions of the Act, including definitions, apply to this resolution.
- (b) This resolution shall be known as the “Electronic Meetings Policy” and applies to the Commission and any of its committees.

Section 2.

- (a) Subject to Sections 3 and 5, any member may participate in a meeting by any electronic means of communication that:
  - (1) allows all participating members of the governing body to simultaneously communicate with each other; and
  - (2) other than a meeting that is an executive session, allows the public to simultaneously attend and observe the meeting.
- (b) A member who participates by an electronic means of communication:
  - (1) shall be considered present for purposes of establishing a quorum; and
  - (2) may participate in final action only if the member can be seen and heard.
- (c) All votes taken during a meeting at which at least one (1) member participates by an electronic means of communication must be taken by roll call vote.

Section 3.

- (a) At least fifty percent (50%) of the members must be physically present at a meeting at which a member will participate by means of electronic communication. Not more than fifty percent (50%) of the members may participate by an electronic means of communication at that same meeting.
- (b) A member may not attend more than a fifty percent (50%) of the meetings in a calendar year by an electronic means of communication unless the member’s electronic participation is due to:
  - (1) military service;
  - (2) illness or other medical condition;
  - (3) death of a relative; or
  - (4) an emergency involving actual or threatened injury to persons or property.
- (c) A member may attend two (2) consecutive meetings (a set of meetings) by electronic communication. A member must attend in person at least one (1) meeting between sets of meetings that the member attends by electronic communication, unless the member’s absence is due to:

- (1) military service;
- (2) illness or other medical condition;
- (3) death of a relative; or
- (4) an emergency involving actual or threatened injury to persons or property.

(d) A member who plans to attend a meeting by any electronic means of communication shall notify the presiding officer and relevant staff within three (3) days before the meeting so that arrangements may be made for the member's participation by electronic communication and so that notices may be prepared.

Section 4. The memoranda and any minutes prepared for a meeting at which any member participates by electronic means of communication must:

- (1) identify each member who:
  - (A) was physically present at the meeting;
  - (B) participated in the meeting by electronic means of communication; and
  - (C) was absent; and
- (2) identify the electronic means of communication by which:
  - (A) members participated in the meeting; and
  - (B) members of the public attended and observed the meeting, if the meeting was not an executive session.

Section 5. No member of the Commission may participate by means of electronic communication in a meeting if the Commission is attempting to take final action to:

- (1) adopt a budget;
- (2) make a reduction in personnel;
- (3) initiate a referendum;
- (4) impose or increase a fee;
- (5) impose or increase a penalty;
- (6) use the eminent domain authority; or
- (7) establish, raise or renew a tax.

Section 6. In the event the governor declares a disaster emergency under IC 10-14-3-12 or the executive (as defined in IC 36-1-2-5) of a political subdivision declares a local disaster emergency under IC 10-14-3-29, the Commission may meet by any means of electronic communication if the following requirements of IC 5-14-1.5-3.7 are satisfied:

- (1) At least a quorum of the members of the Commission participate in the meeting by means of electronic communication or in person.
- (2) The public is able to simultaneously attend and observe the meeting. However, this subdivision does not apply to a meeting held in executive session.

- (3) The memoranda and any minutes prepared for a meeting held under this section must:
- (A) state the name of each member of the Commission who:
    - (i) participated in the meeting by using any electronic means of communication; and
    - (ii) was absent; and
  - (B) identify the electronic means of communication by which:
    - (i) members of the Commission participated in the meeting; and
    - (ii) members of the public attended and observed the meeting, if the meeting was not an executive session.
- (4) All votes taken during a meeting under this section must be taken by roll call vote.

Section 7. At any meeting of the Commission where any member participates by an electronic means of communication, members of the public shall be able to attend and observe the meeting via electronic means. Subject to the Commission's rules for making public comment, members of the public may also participate in the meeting via electronic means.

Section 8. At any meeting of the Commission where any member participates by an electronic means of communication, staff members may also participate in the meeting via electronic means, provided there is no actual need for a staff member to be physically present at a particular meeting. Such need shall be determined in the sole discretion of the presiding officer.

SECTION III. If any section, sentence, or provision of this resolution, or the application thereof to any person or circumstances shall be declared invalid, such invalidity shall not affect any of the other sections, sentences, provisions, or applications of this resolution which can be given effect without the invalid provision or application, and to this end the provisions of this resolution are declared to be severable.

SECTION IV. This resolution shall be in full force and effect from and after its passage by the Traffic Commission.

ADOPTED by the Traffic Commission of the City of Bloomington, Monroe County, Indiana, upon this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
Ryne Shadday, Chair  
Bloomington Traffic Commission

## SYNOPSIS

This resolution adopts an Electronic Meetings Policy for the Bloomington Traffic Commission pursuant to newly-enacted state statutes concerning electronic meetings. The Policy mirrors a policy adopted by the Bloomington Common Council and establishes the procedures that apply to a member's participation in a meeting by an electronic means of communication, as well as to the participation of the public and city staff members by electronic means of communication.



**RESOLUTION****CALLING FOR ROUTINE SPEED LIMIT RECONSIDERATION**

- WHEREAS, speed is a significant factor influencing crash severity and frequency.
- WHEREAS, the City of Bloomington's 2018 Comprehensive Plan contains Policy 6.1.7: Prioritize safety and accessibility over capacity in transportation planning, design, construction, and maintenance decisions (pg 74).
- WHEREAS, the City of Bloomington's 2019 Transportation Plan designates all street typologies to have target speeds of at most 25mph, with the exception of Suburban Connectors, which have target speeds of at most 35mph (pg 36).
- WHEREAS, Walnut St north of the SR 45/46 bypass is the only city-controlled street segment indicated as Suburban Connector in the Transportation Plan (pg 35).
- WHEREAS, Title 15 of Bloomington Municipal Code lists many street segments as having a speed limit higher than 25mph in direct contradiction to our Transportation Plan.
- WHEREAS, IC 9-21-5-6 allows cities to reduce speed limits in urban districts to 25mph without a traffic and engineering investigation.
- WHEREAS, Title 15 of Bloomington Municipal Code lists many street segments as having a speed limit higher than 25mph even in existing urban districts.
- WHEREAS, in the past, the scope of work for street projects has often been limited such that the codified speed limit has not been reconsidered.

**THEREFORE, BE IT RESOLVED BY THE TRAFFIC COMMISSION OF THE CITY OF BLOOMINGTON, INDIANA, THAT:**

Whenever a street segment is repaved, an intersection is rebuilt, or bicycle or pedestrian facilities are installed or improved along or across a street, the speed limit on that street should be re-evaluated. The speed limit should be updated to reflect the maximum speed that drivers should travel along that segment in order to ensure the safety of all users.



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**TRAFFIC/BPSC COMMISSION  
STAFF REPORT**

**Case #:** TC-22-01  
**Date:** March 23, 2022

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**FROM:** Beth Rosenbarger, AICP, Planning and Transportation Department  
Neil Kopper, PE, Engineering Department

**REQUEST:** Modifications to Henderson Street

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**Location:** Henderson Street between 2<sup>nd</sup> Street and Smith Avenue

**Description and purpose:** The City of Bloomington is recommending changes to Henderson Street in order to create an east-west connection between Smith Avenue and Hunter Avenue. Smith Avenue and Hunter Avenue are both part of an east-west Neighborhood Greenway, identified in the Transportation Plan as NG-4 “E Hunter Ave Neighborhood Greenway.” The east-west connection follows Howe Street, Smith Avenue, and Hunter Avenue for approximately 2.1 miles east-west.

Henderson Street is one-way, northbound, bicyclists attempting to travel eastbound on Smith Avenue and connect to Hunter Avenue—a half block south—lack options to travel southbound on Henderson. The proposed changes would repurpose an underutilized motor vehicle lane to be a multiuse path for pedestrians and bicyclists, thereby allowing bicyclists to travel southbound on this portion of Henderson. South of Hunter Avenue, it is recommended to continue the southbound bicycle lane until it reaches the intersection with 2<sup>nd</sup> Street.

This connection is a Recommended Project in the Transportation Plan and included in the Priority Bicycle Facilities Network, Phase 1.

**Title 15 Changes:** Section 15.16.010 will need to be edited to allow southbound bicycle travel on the northbound one-way street. This change can be made by adding an existing footnote to Schedule E “One Way Streets” as follows:

Street	From	To	Direction of Travel
Henderson Street	Second Street	Indiana Avenue	North (1)

(1) One-way travel for motor vehicle traffic only. Two-way bicycle traffic permitted.

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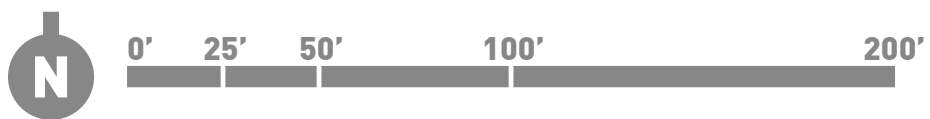
**Recommendation:**

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.



# HENDERSON STREET

BLOOMINGTON GREENWAYS - CONCEPT PLANS | 07.23.2021





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**TRAFFIC/BPSC COMMISSION  
STAFF REPORT**

**Case #:** TC-22-02  
**Date:** March 23, 2022

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**FROM:** Beth Rosenbarger, AICP, Planning and Transportation Department  
Neil Kopper, PE, Engineering Department

**REQUEST:** Modifications to 17<sup>th</sup> Street

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**Location:** 17<sup>th</sup> Street from Monroe Street to Grant Street (approximately)

**Description and purpose:** The City of Bloomington will be constructing a multiuse path on the north side of 17<sup>th</sup> Street. The plans are included in the packet. The multiuse path will be approximately 10 feet wide, separated from motor vehicle traffic with a curb and green space. This multiuse path will connect with existing multiuse path on both ends.

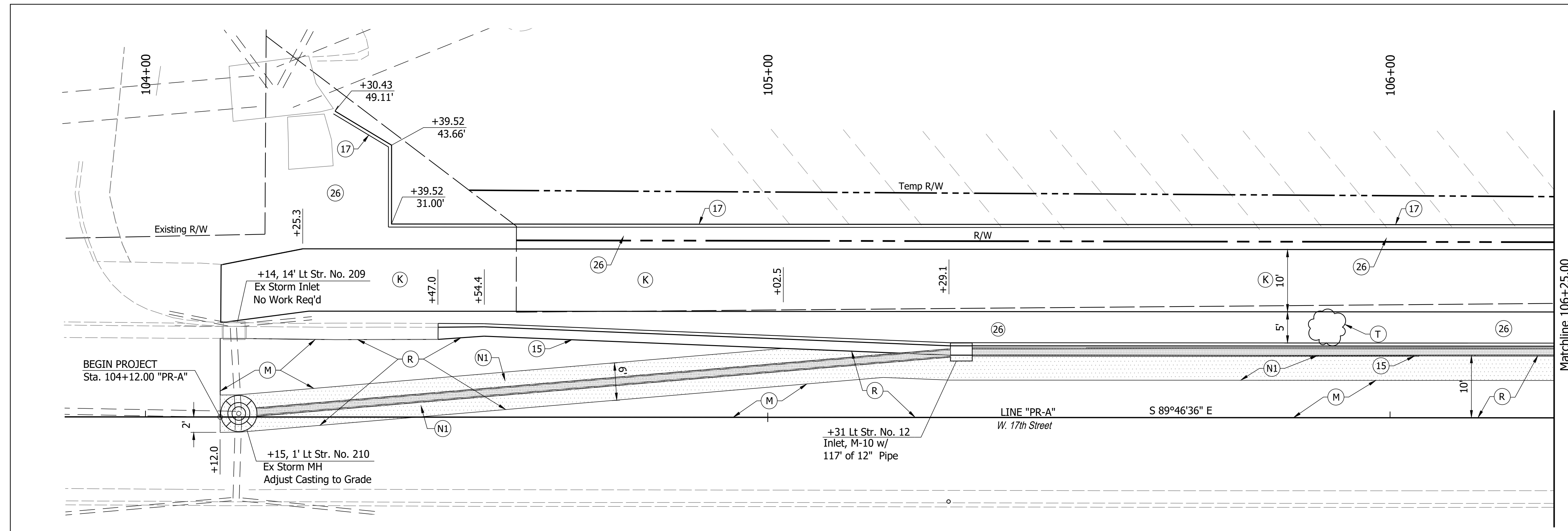
This multiuse path is a Recommended Project in the Transportation Plan and included in the Priority Bicycle Facilities Network, Phase 2.

**Title 15 Changes:** Title 15 will need to be amended to update the Speed Limit where this project proposes changes. Title 15 will need to be amended to correct and add intersections along this project to "15.20.020 Restricted turns on red at signalized intersections."

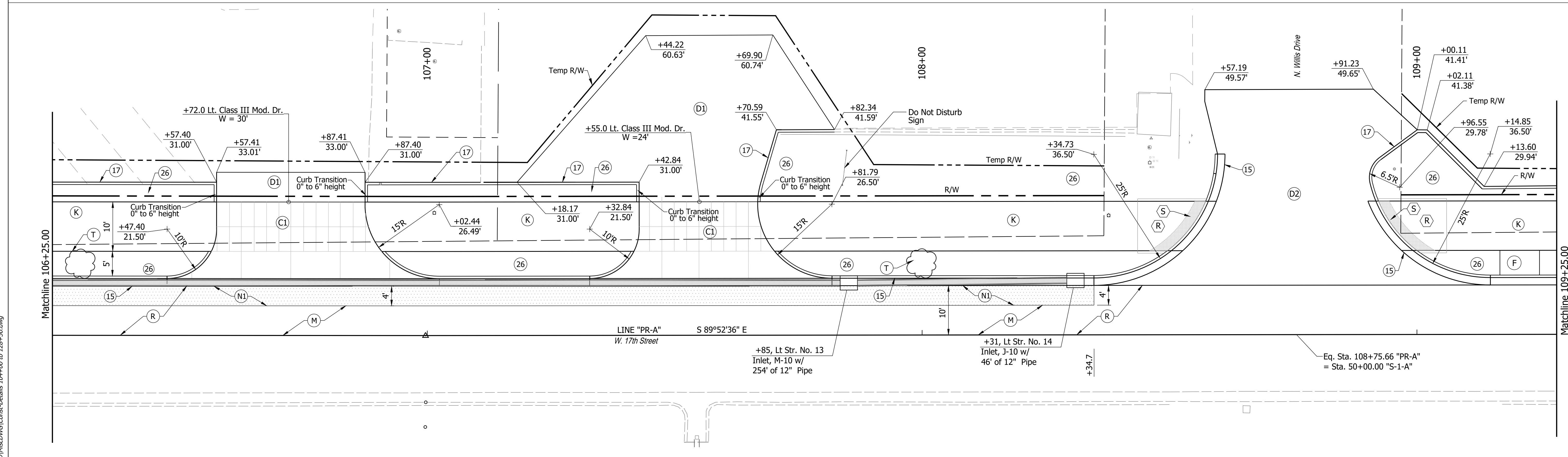
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**Recommendation:**

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.

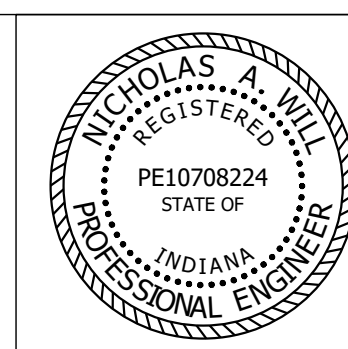


- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
  - (D2) 770#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 330#/SY HMA Base, Type B on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
  - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
  - (15) Curb & Gutter, Concrete, Modified
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
  - (S) Detectable Warning Surface



**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.

**Native trees:**  
Blackgum  
Shumard Oak  
Shingle Oak  
Hackberry  
Kentucky Coffeetree  
Swamp White Oak



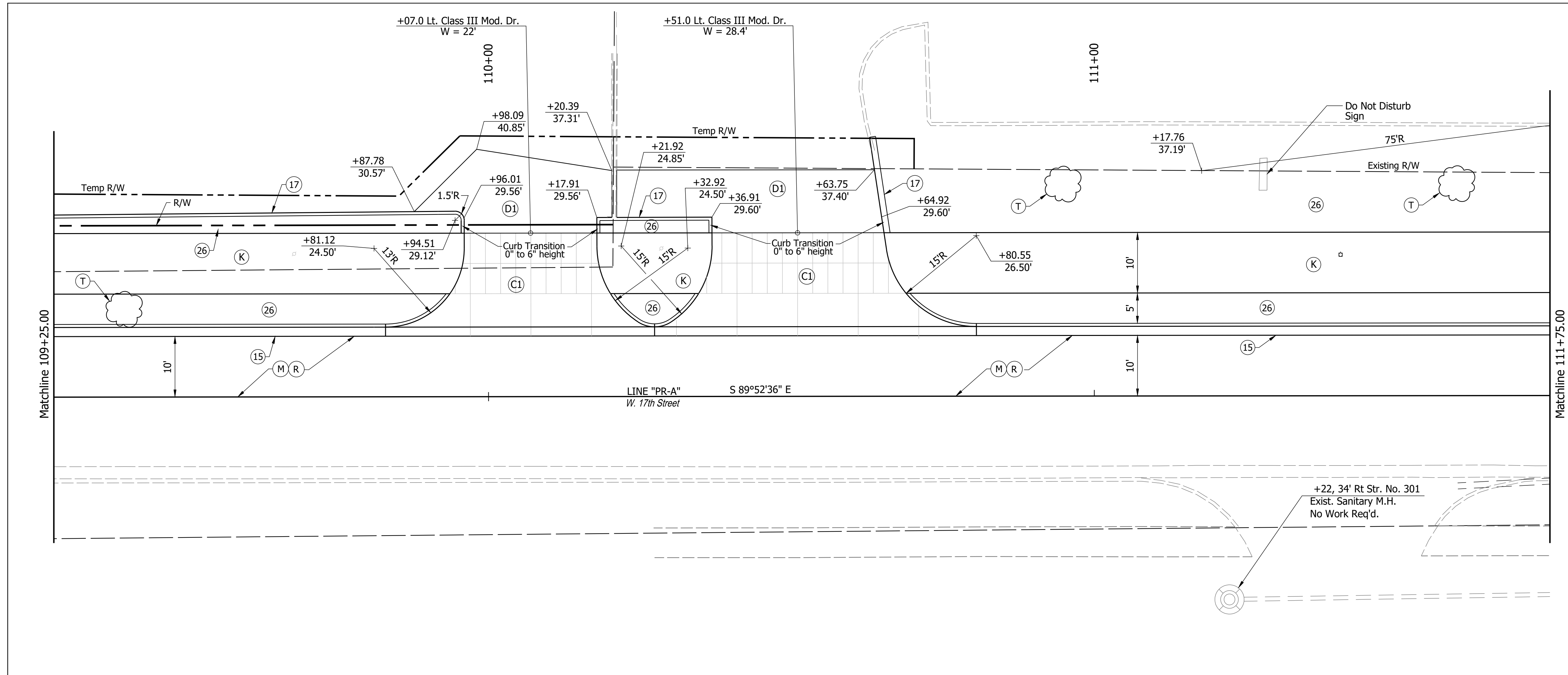
RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021, DATE

DESIGNED: JAF, DRAWN: RTL  
CHECKED: NAW, CHECKED: JAF

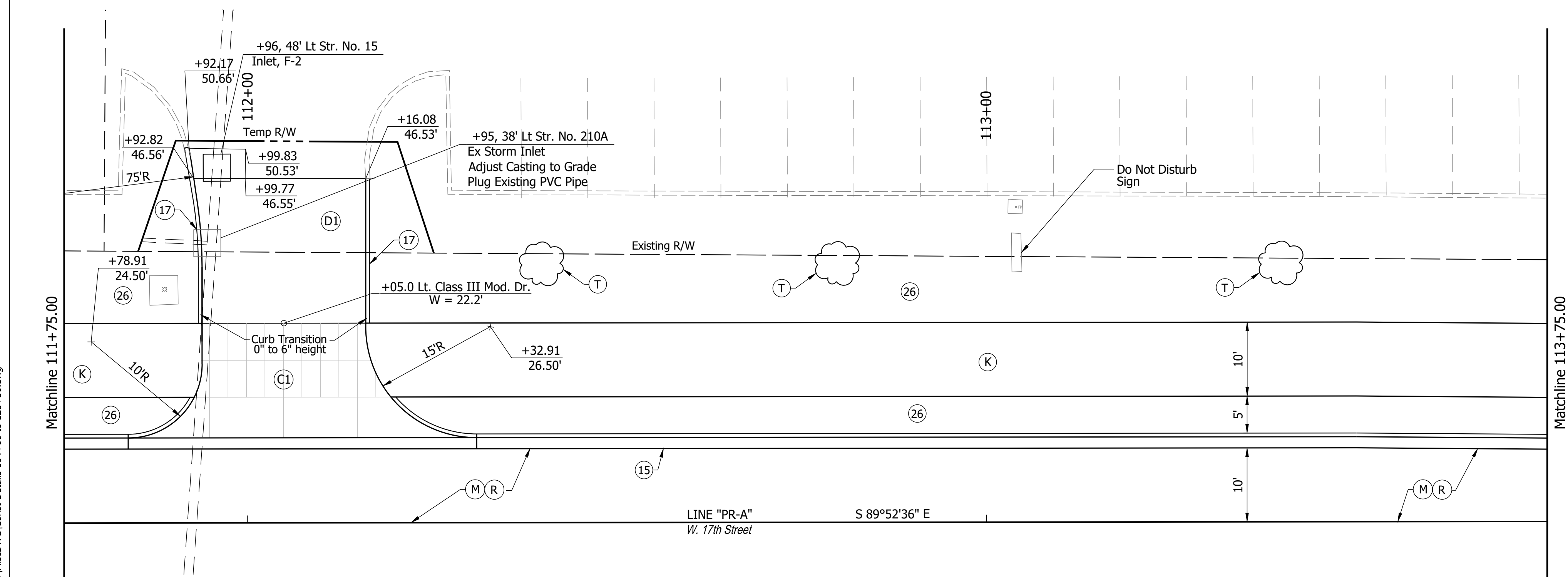
INDIANA DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION DETAILS LINE "PR-A" STA. 104+12 TO 109+25**

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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
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R-41895	1900402

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- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
  - (K) Multi-Use Trail  
4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
  - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
  - (15) Curb & Gutter, Concrete, Modified
  - (17) Curb, Concrete
  - (26) Sodding, Nursery



- Native trees:**
- Blackgum
  - Shumard Oak
  - Shingle Oak
  - Hackberry
  - Kentucky Coffeetree
  - Swamp White Oak

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.

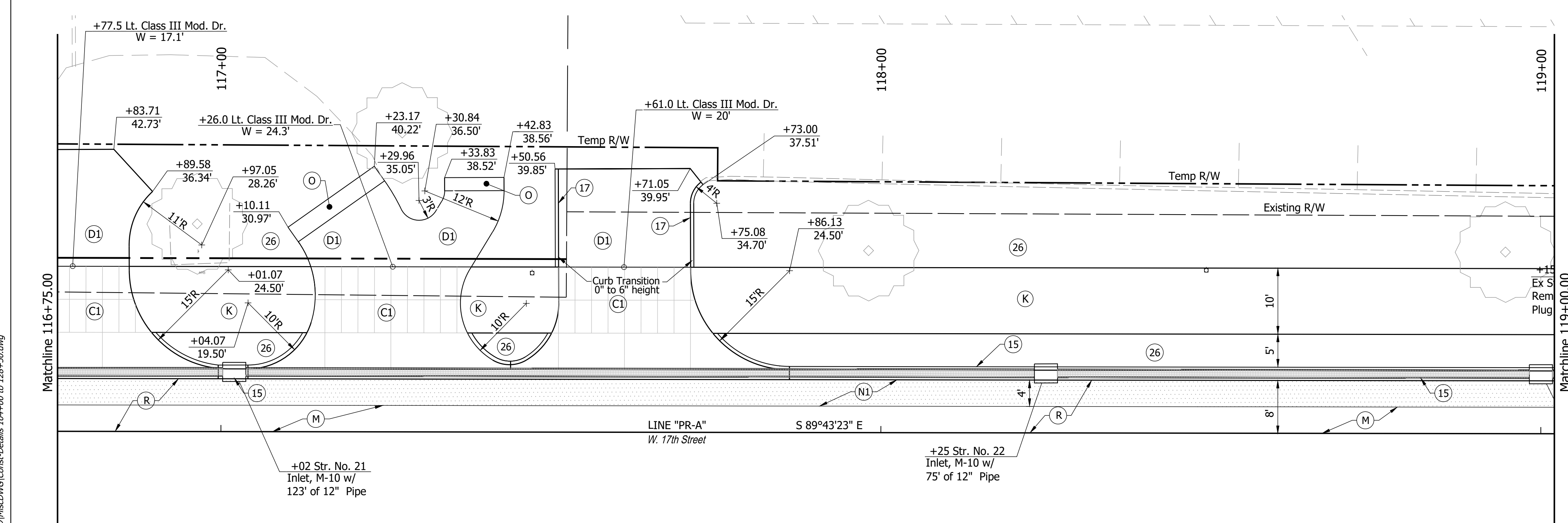
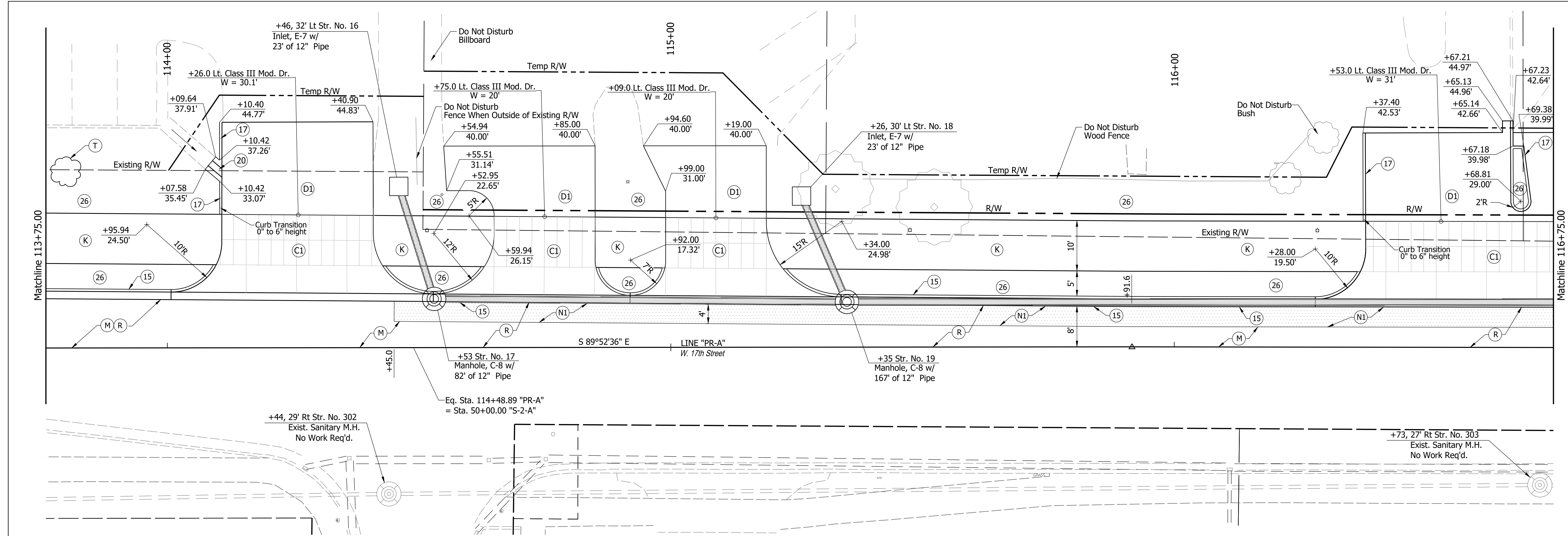
	RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	
		DESIGN ENGINEER	DATE	
	DESIGNED: JAF	DRAWN: RTL		
	CHECKED: NAW	CHECKED: JAF		

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"**  
STA. 109+25 TO 113+75

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CONTRACT	PROJECT
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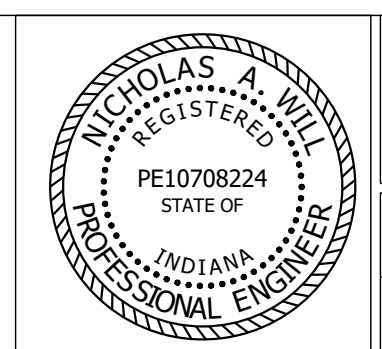
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- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
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  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (O) Compacted Aggregate, No. 53
  - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
  - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
  - 15 Curb & Gutter, Concrete, Modified
  - 17 Curb, Concrete
  - 20 Gutter, Concrete, A
  - 26 Sodding, Nursery

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.

**Native trees:**  
Blackgum  
Shumard Oak  
Shingle Oak  
Hackberry  
Kentucky Coffeetree  
Swamp White Oak



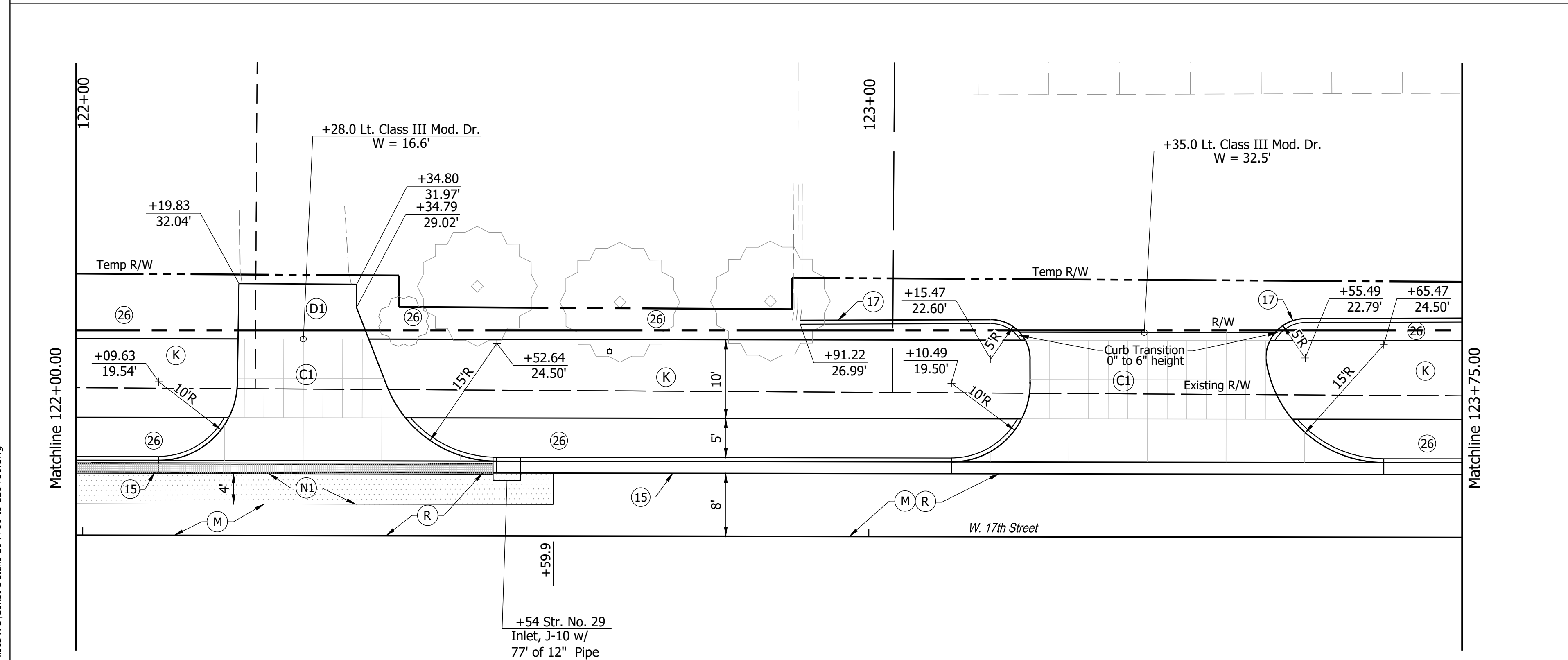
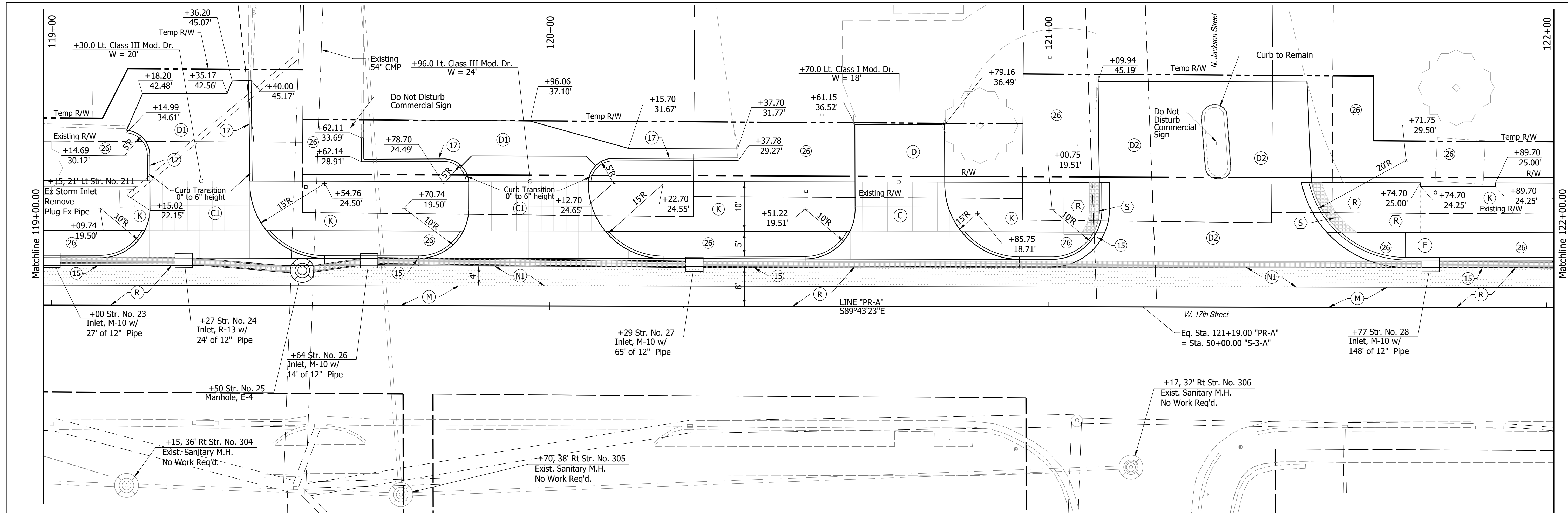
RECOMMENDED FOR APPROVAL: *Nicholas A. Will*, DESIGN ENGINEER, 12/27/2021, DATE

DESIGNED: JAF, DRAWN: RTL  
CHECKED: NAW, CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION DETAILS LINE "PR-A" STA. 113+75 TO 119+00**

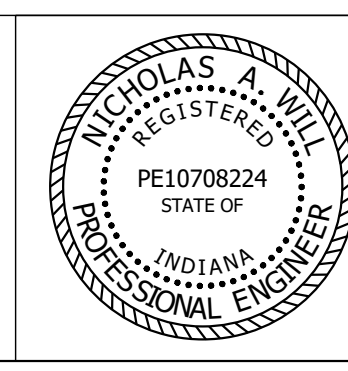
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
	52 of 155
CONTRACT	PROJECT
R-41895	1900402

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- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
  - (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (D) 440#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 6" Compacted Aggregate, No. 53 on Subgrade Treatment Type II
  - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
  - (D2) 770#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 330#/SY HMA Base, Type B on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N1) HMA For Patching, Type B 275#/SY HMA Type B, Intermediate on 330#/SY HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Var Depth QC/QA-HMA Intermediate, Varies 0" To 4"
  - (15) Curb & Gutter, Concrete, Modified
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
  - (S) Detectable Warning Surface

**Notes:**  
 All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will*  
 DESIGN ENGINEER DATE: 12/27/2021

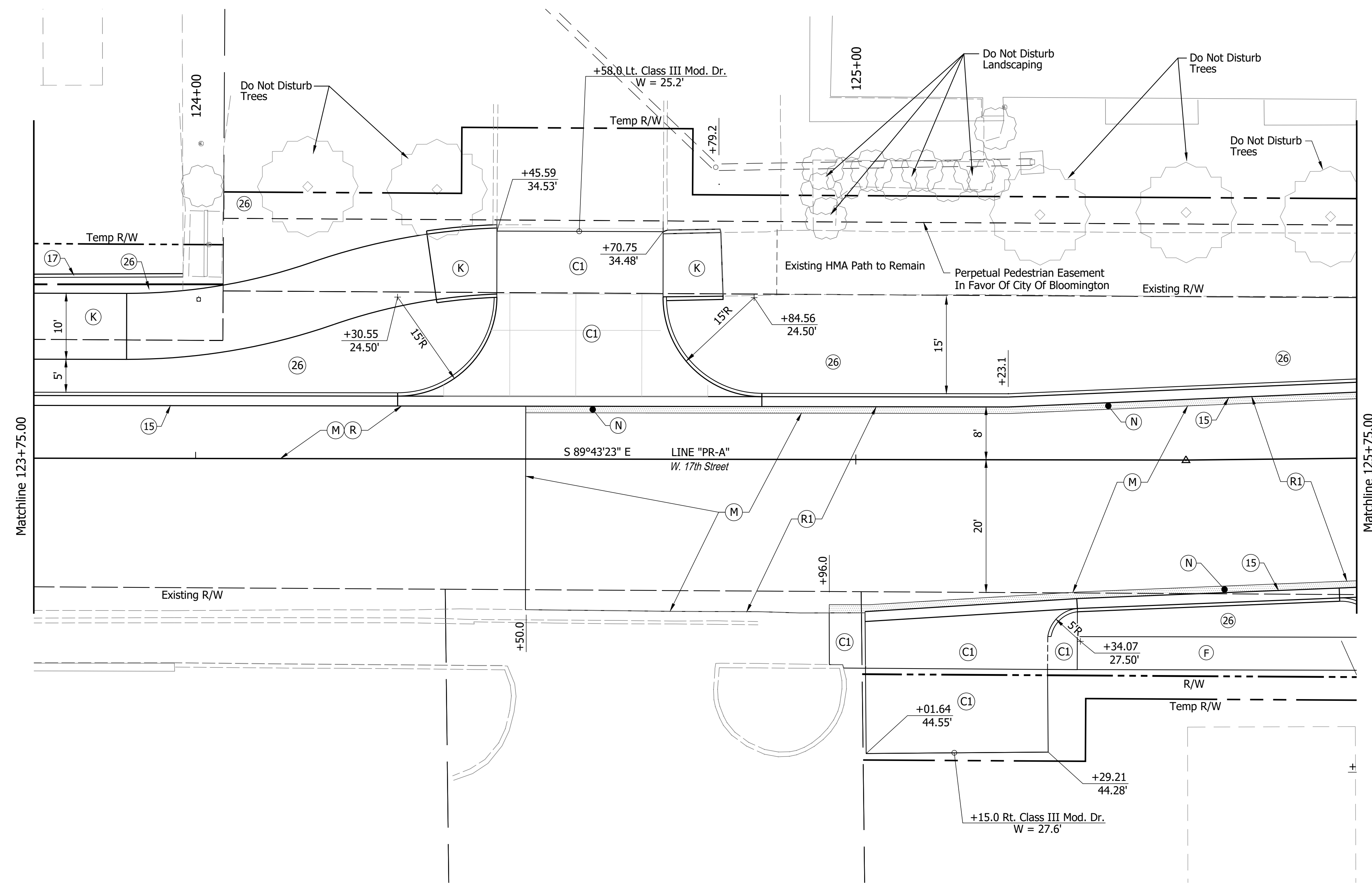
DESIGNED: JAF DRAWN: RTL  
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INDIANA DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION DETAILS LINE "PR-A" STA. 119+00 TO 123+75**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	53 of 155
CONTRACT	PROJECT
R-41895	1900402

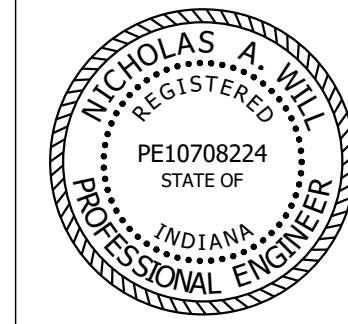
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 File: S:\\_2019\119-0055 (Road)\CAD\Misc\DWG\Const-Detail\_104+00 to 128+50.dwg





- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
  - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (15) Curb & Gutter, Concrete, Modified
  - (17) Curb, Concrete
  - (26) Sodding, Nursery

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021
	DESIGN ENGINEER	DATE
DESIGNED: JAF	DRAWN: RTL	
CHECKED: NAW	CHECKED: JAF	

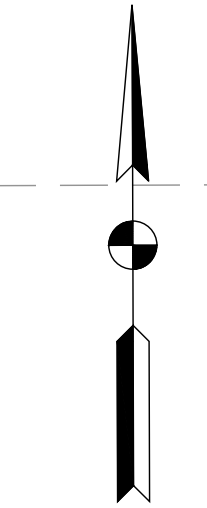
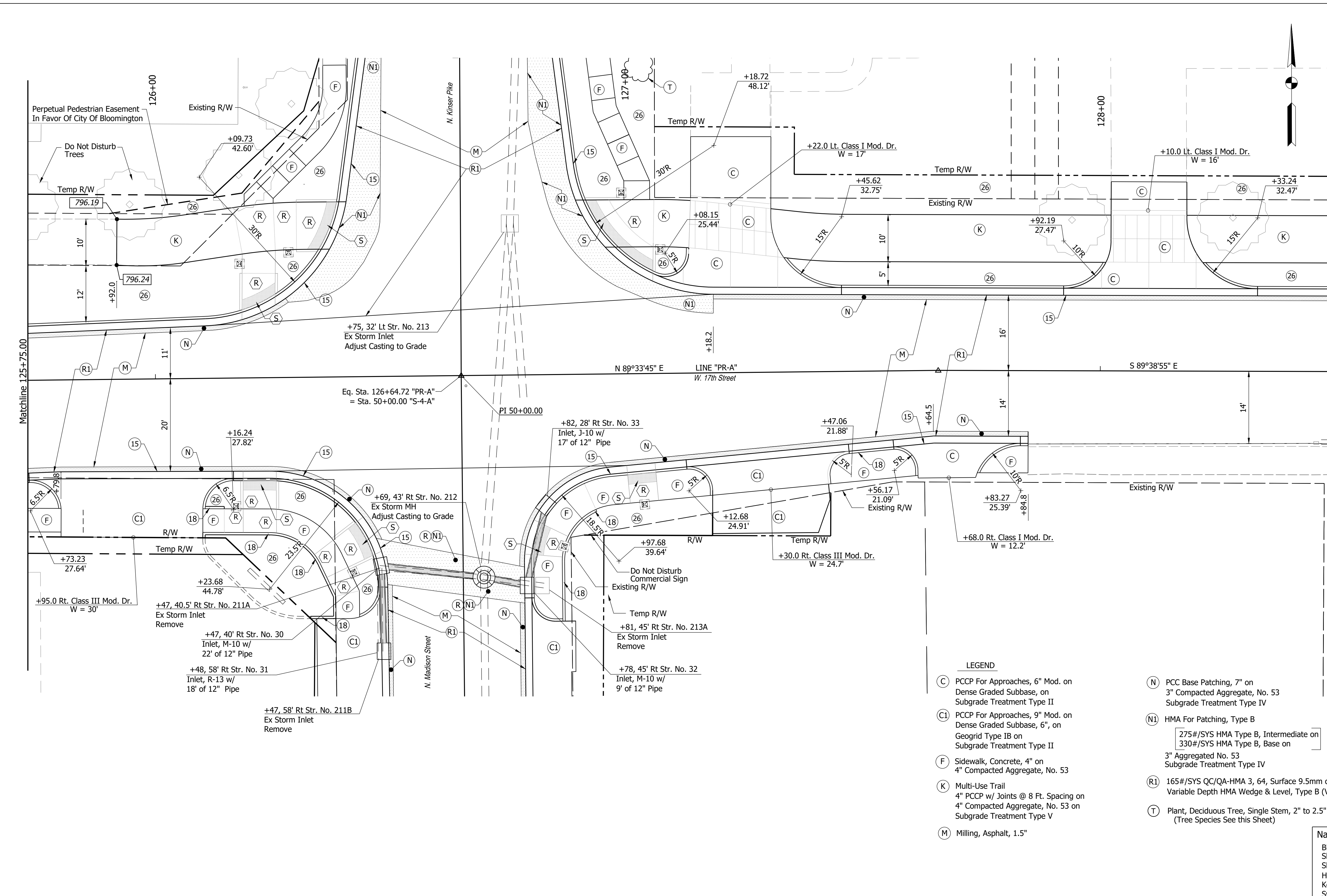
INDIANA  
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"  
STA. 123+75 TO 125+75**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	54 of 155
CONTRACT	PROJECT
R-41895	1900402

Date: Dec 31, 2021, 3:05pm User Name: eobson  
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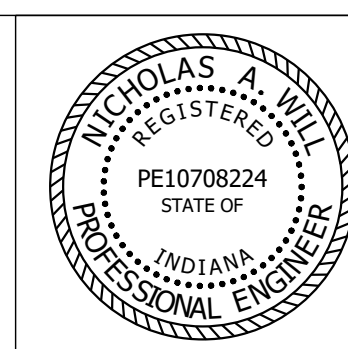


- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
  - (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
  - (NI) HMA For Patching, Type B  
 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (R) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
  - (15) Curb & Gutter, Concrete, Modified
  - (18) Curb, Integral Concrete
  - (26) Sodding, Nursery
  - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
  - (S) Detectable Warning Surface

**Native trees:**

- Blackgum
- Shumard Oak
- Shingle Oak
- Hackberry
- Kentucky Coffeetree
- Swamp White Oak

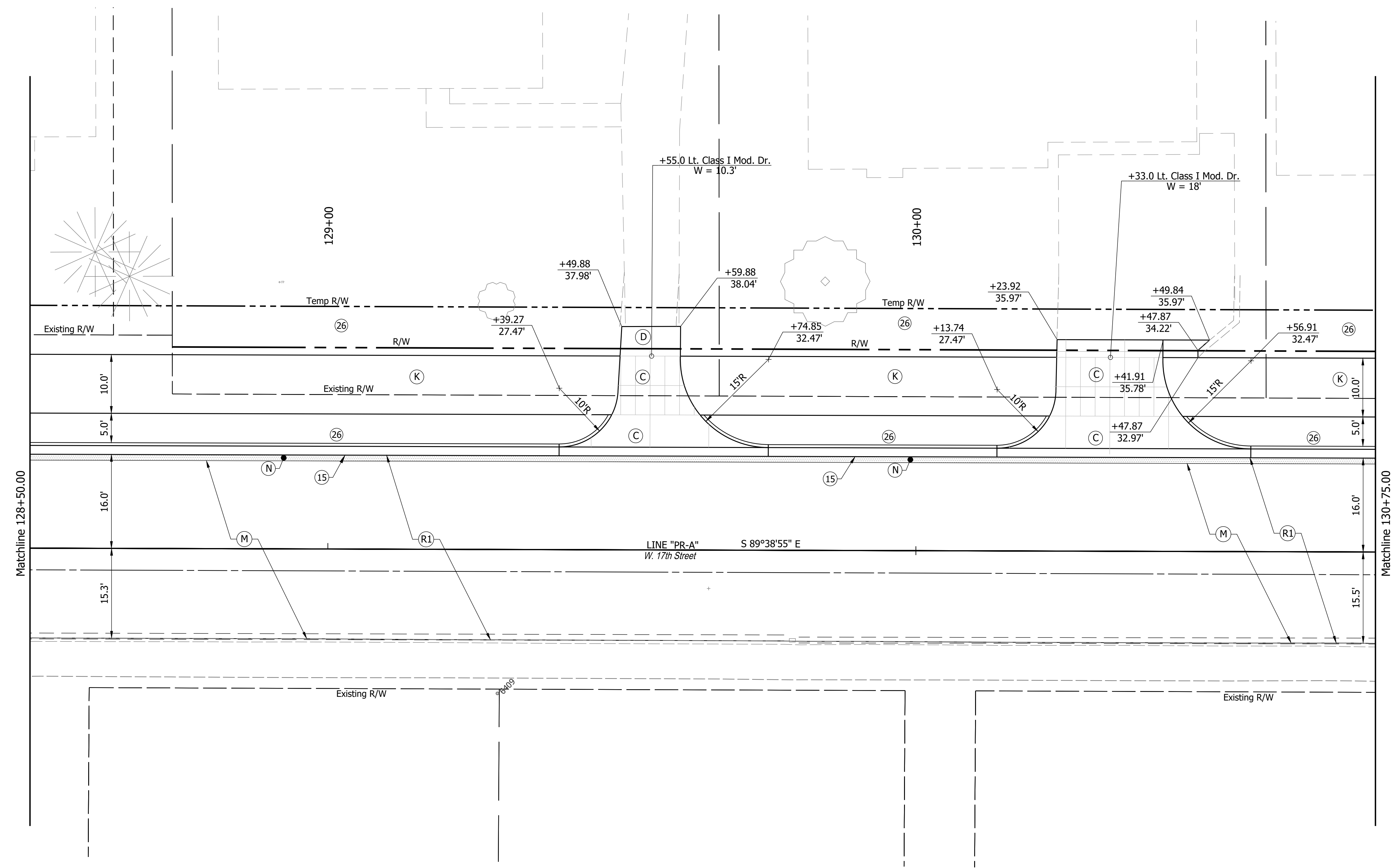
**Notes:**  
 All Stationing off Line "PR-A" Unless Otherwise Noted.  
 See Curb Ramp Details for Additional Information.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021
DESIGNED:	JAF	DRAWN:	RTL
CHECKED:	NAW	CHECKED:	JAF

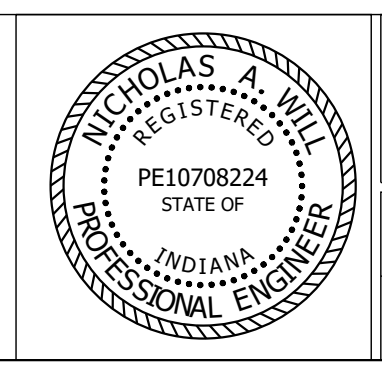
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION DETAILS LINE "PR-A"**  
**STA. 125+75 TO 128+50**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	55 of 155
CONTRACT	PROJECT
R-41895	1900402



- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
  - (D) 440#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 6" Compacted Aggregate, No. 53 on Subgrade Treatment Type II
  - (K) Multi-Use Trail  
4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (15) Curb & Gutter, Concrete, Modified
  - (26) Sodding, Nursery

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL	
CHECKED:	NAW	CHECKED:	JAF	

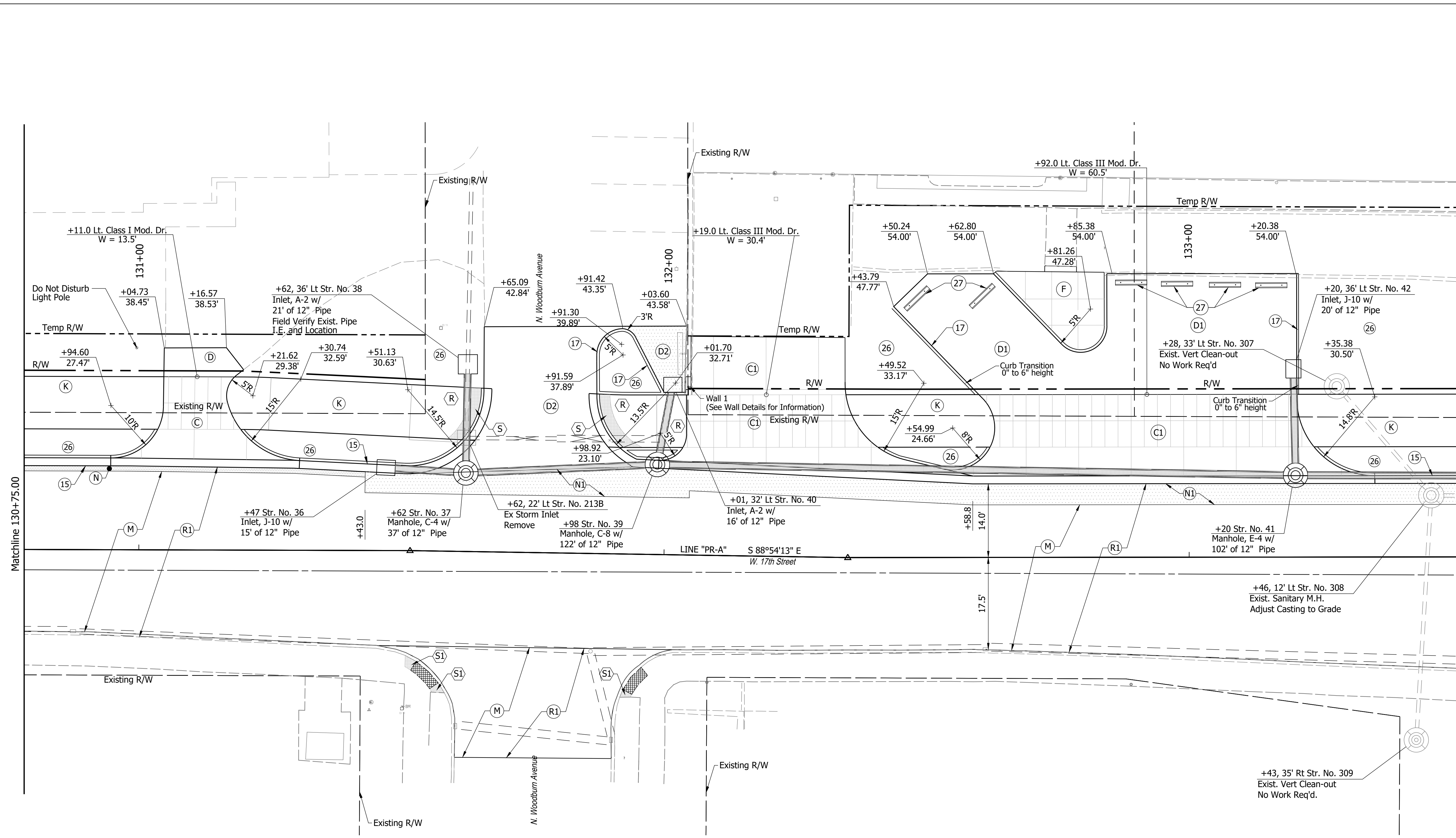
INDIANA  
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"**  
**STA. 128+50 TO 130+75**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	56 of 155
CONTRACT	PROJECT
R-41895	1900402

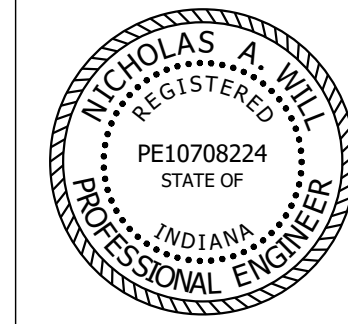
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File: S:\\_2019\119-0055(Road)\CAD\Misc\DWG\Const-Detail\128+50 to 143+50.dwg

Date: Dec 31, 2021, 3:08pm User Name: eolson  
 File: S:\\_2019\119-0055\Road\CAD\Misc\DWG\Const-Detail\128-50 to 143+50.dwg



- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
  - (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (D) 440#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 6" Compacted Aggregate, No. 53 on Subgrade Treatment Type II
  - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB
  - (D2) 770#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 330#/SY HMA Base, Type B on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type II
  - (N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (15) Curb & Gutter, Concrete, Modified
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (27) Parking Barrier, Concrete
  - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
  - (S) Detectable Warning Surface
  - (S1) Detectable Warning Surface, Retrofit

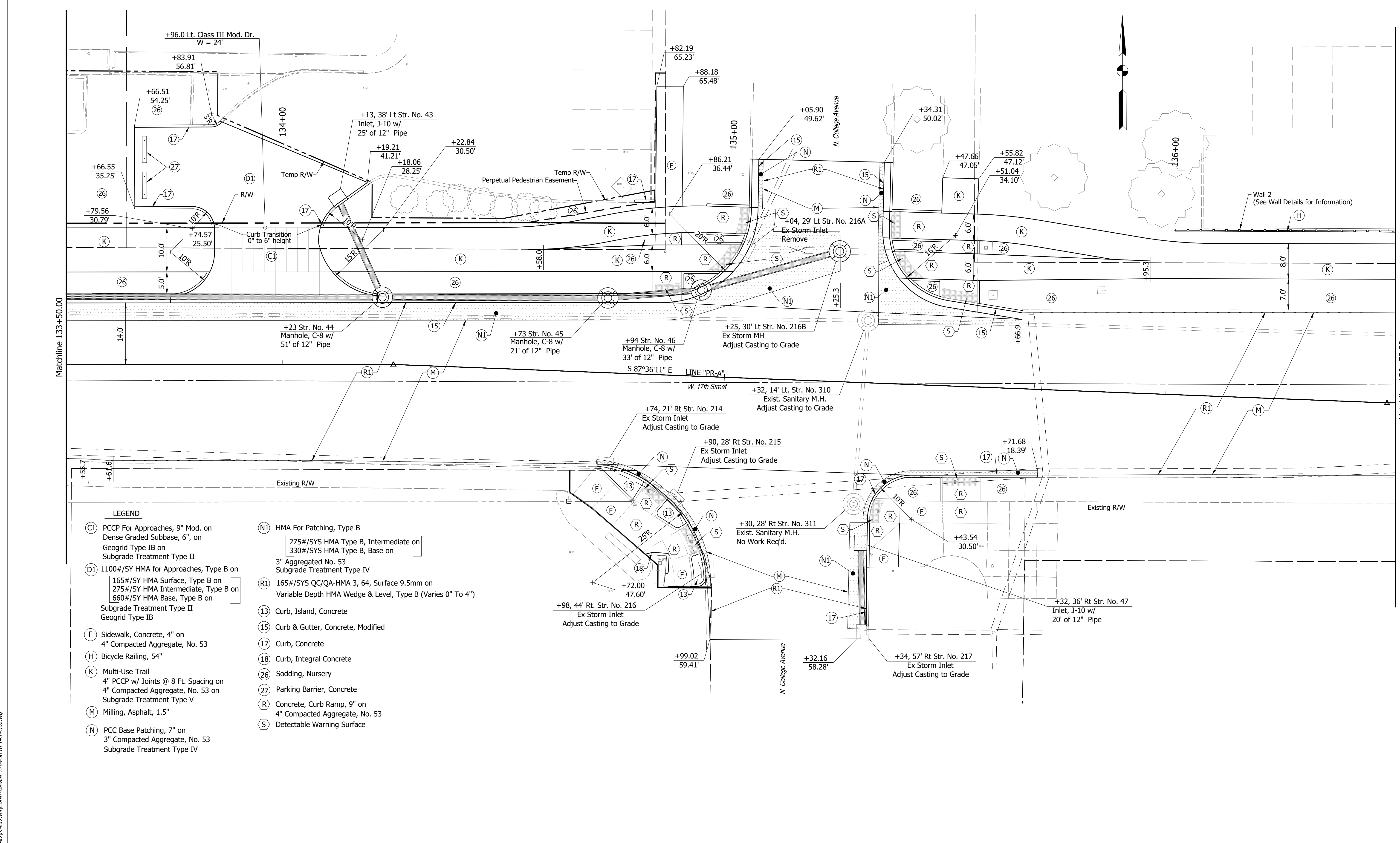
**Notes:**  
 All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL
CHECKED:	NAW	CHECKED:	JAF

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CONSTRUCTION DETAILS LINE "PR-A"  
 STA. 130+75 TO 133+50

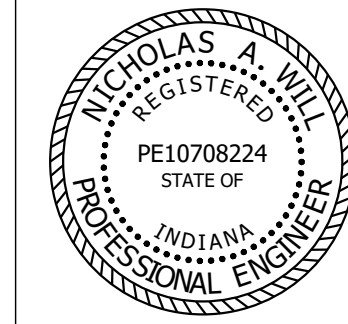
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	57 of 155
CONTRACT	PROJECT
R-41895	1900402



**LEGEND**

(C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II	(N1) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
(D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB	(R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
(F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53	(13) Curb, Island, Concrete
(H) Bicycle Railing, 54"	(15) Curb & Gutter, Concrete, Modified
(K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V	(17) Curb, Concrete
(M) Milling, Asphalt, 1.5"	(18) Curb, Integral Concrete
(N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV	(26) Sodding, Nursery
	(27) Parking Barrier, Concrete
	(R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
	(S) Detectable Warning Surface

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.

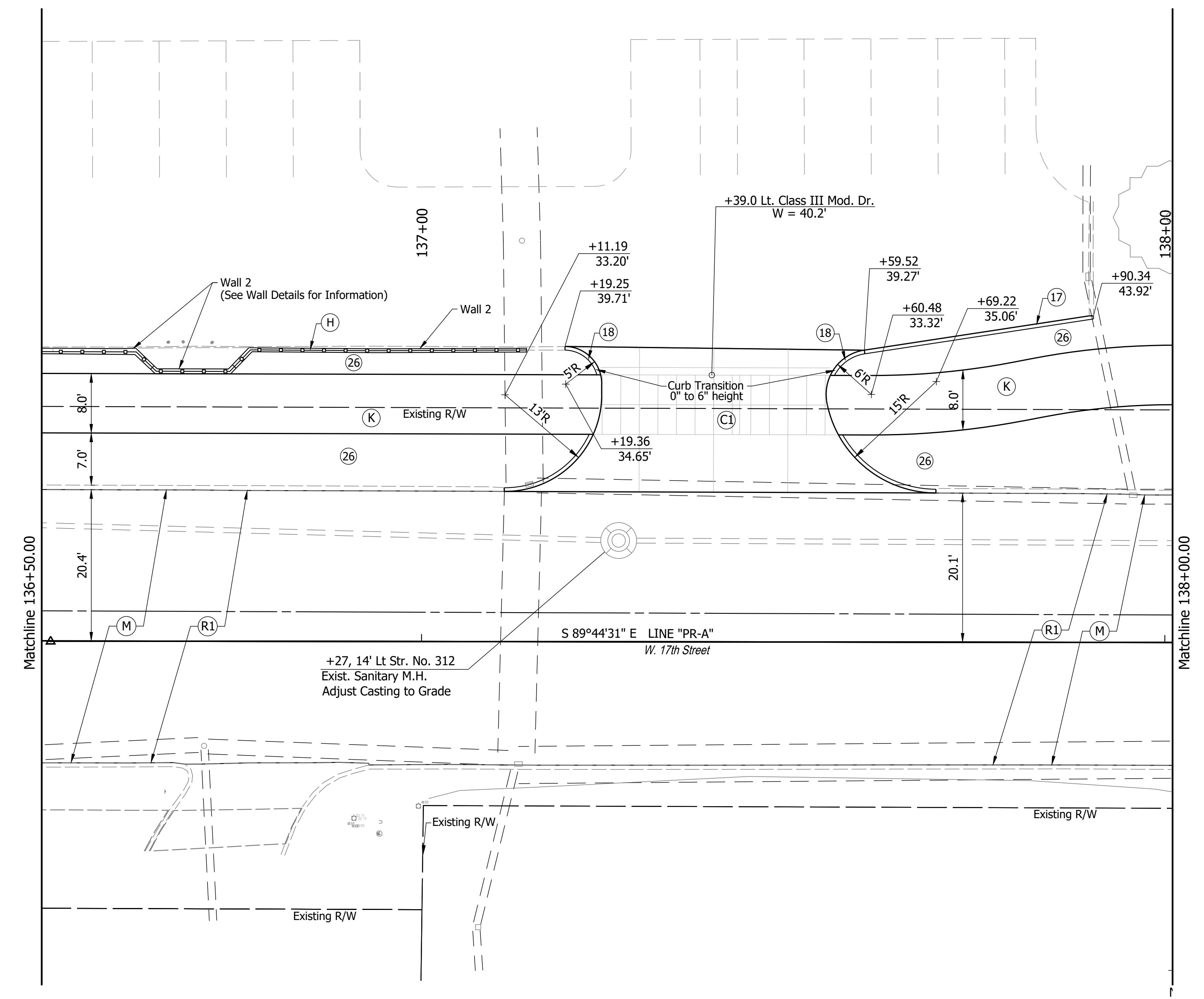
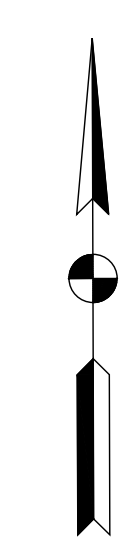


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL	
CHECKED:	NAW	CHECKED:	JAF	

INDIANA DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION DETAILS LINE "PR-A"  
STA. 133+50 TO 136+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	58 of 155
CONTRACT	PROJECT
R-41895	1900402

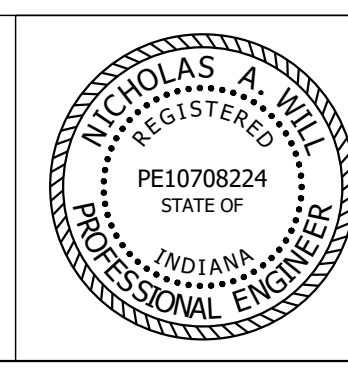
Date: Dec 31, 2021, 3:08pm User Name: eolson File: S:\\_2019\119-0055(Road)\CAD\Misc\DWG\Const-Detail\_128+50 to 143+50.dwg



- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (H) Bicycle Railing, 54"
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (17) Curb, Concrete
  - (18) Curb, Integral Concrete
  - (26) Sodding, Nursery

Date: Dec 31, 2021, 3:08pm User Name: eolson File: S:\\_2019\19-0055\Road\CAD\MiscDWG\Const-Details\_128+50 to 143+50.dwg

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.

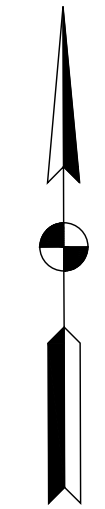
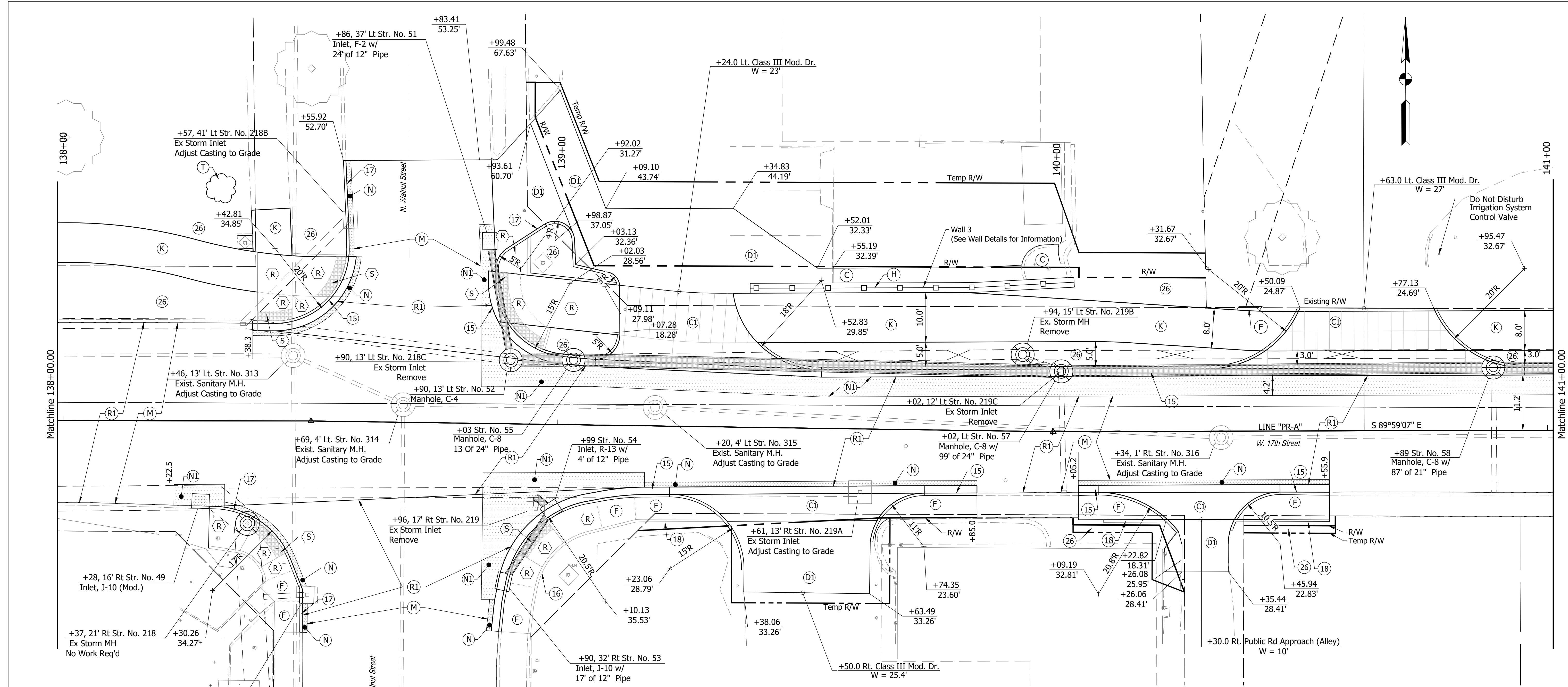


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL	
CHECKED:	NAW	CHECKED:	JAF	

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"  
STA. 136+50 TO 138+00**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	59 of 155
CONTRACT	PROJECT
R-41895	1900402



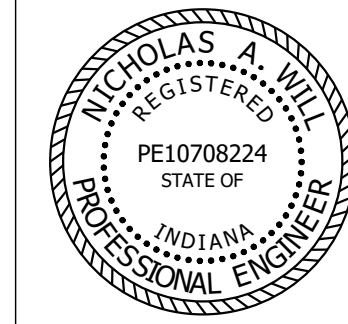
**LEGEND**

- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
- (DI) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
- (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
- (H) Bicycle Railing, 54"
- (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
- (M) Milling, Asphalt, 1.5"
- (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
- (NI) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
- (RI) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
- (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
- (15) Curb & Gutter, Concrete, Modified
- (16) Curb, Integral Concrete, Mod.
- (17) Curb, Concrete
- (18) Curb, Integral Concrete
- (26) Sodding, Nursery
- (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
- (S) Detectable Warning Surface

**Native trees:**

Blackgum
Shumard Oak
Shingle Oak
Hackberry
Kentucky Coffeetree
Swamp White Oak

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.



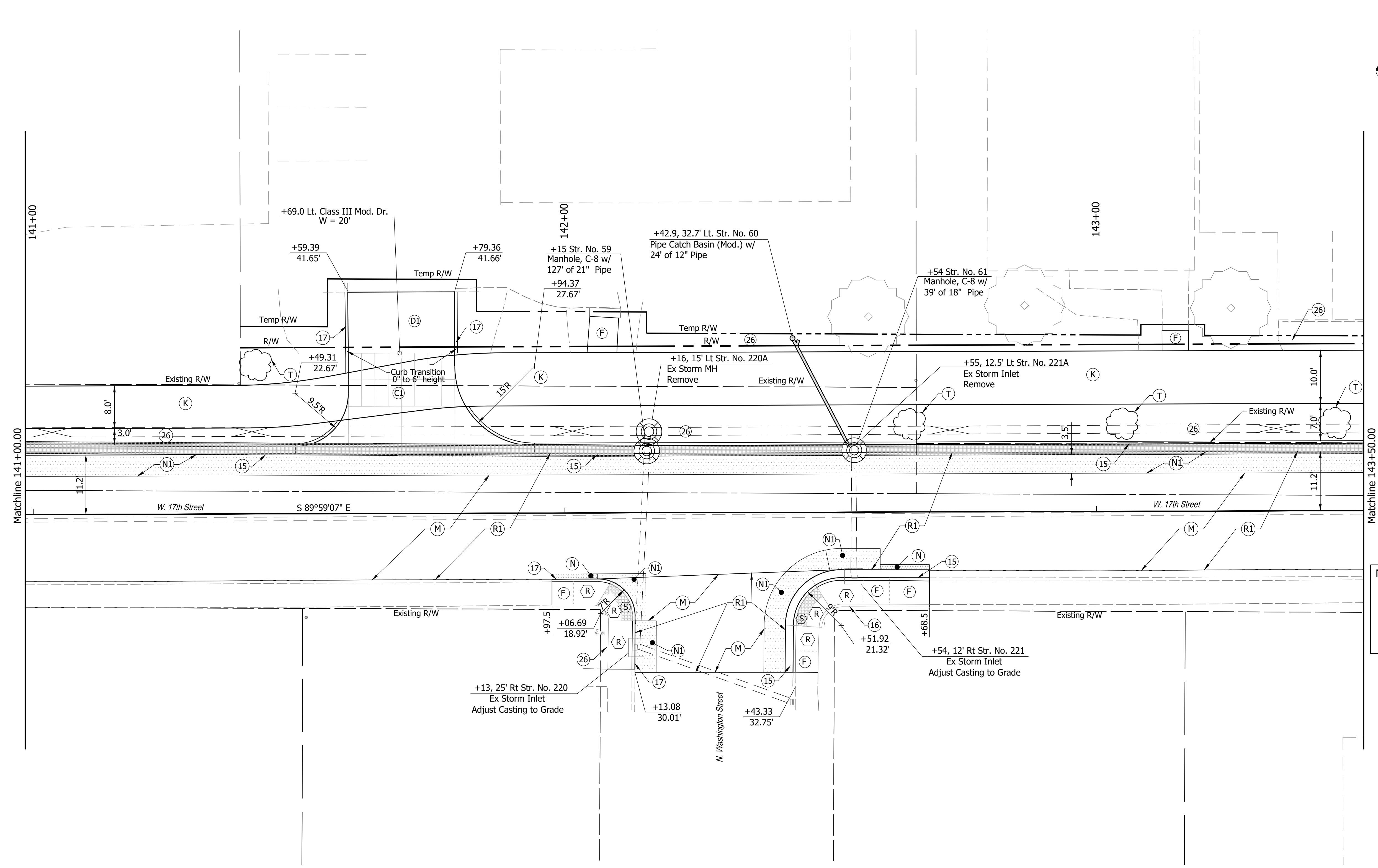
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	12/27/2021
DESIGNED:	JAF	DRAWN:	RTL
CHECKED:	NAW	CHECKED:	JAF

**INDIANA DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS LINE "PR-A" STA. 138+00 TO 141+00**

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	60 of 155
CONTRACT	PROJECT
R-41895	1900402

Date: Dec 31, 2021, 3:08pm User Name: eolson File: S:\\_2019\119-0055(Road)\CAD\Misc\DWG\Const-Detail\128-50 to 143+50.dwg

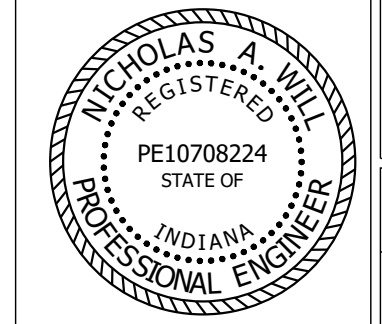


- LEGEND**
- (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
  - (N1) HMA For Patching, Type B 275#/SY HMA Type B, Intermediate on 330#/SY HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (R1) 165#/SY QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (T) Plant, Deciduous Tree, Single Stem, 2" to 2.5" (Tree Species See this Sheet)
  - (15) Curb & Gutter, Concrete, Modified
  - (16) Curb, Integral Concrete, Modified
  - (17) Curb, Concrete
  - (26) Sodding, Nursery
  - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
  - (S) Detectable Warning Surface

- Native trees:**
- Blackgum
  - Shumard Oak
  - Shingle Oak
  - Hackberry
  - Kentucky Coffeetree
  - Swamp White Oak

Date: Dec 31, 2021, 3:09pm User Name: eolson File: S:\\_2019\119-0055 (Road)\CAD\Misc\DWG\Const-Detail\_128+50 to 143+50.dwg

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.



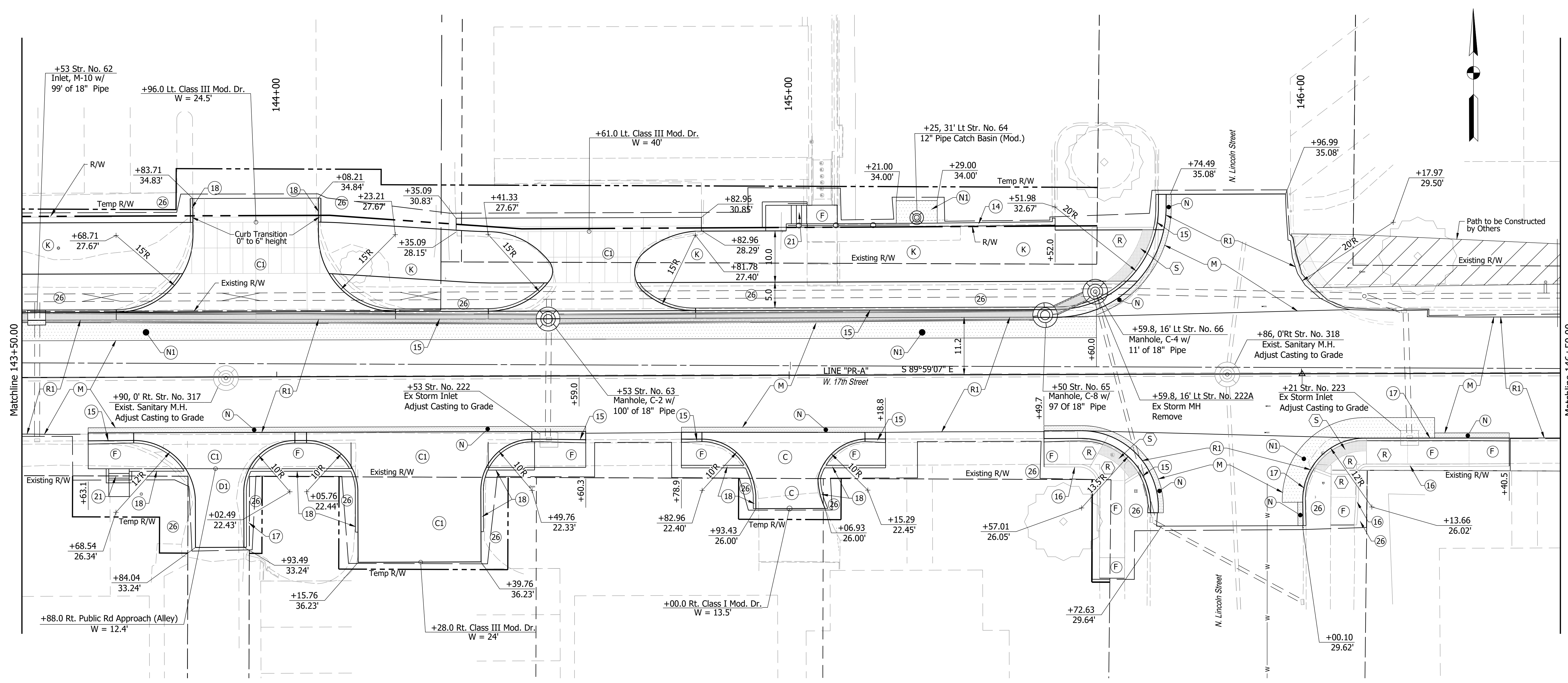
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	12/27/2021	DATE
DESIGNED:	JAF	DRAWN:	RTL
CHECKED:	NAW	CHECKED:	JAF

INDIANA  
DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS LINE "PR-A"**  
**STA. 141+00 TO 143+50**

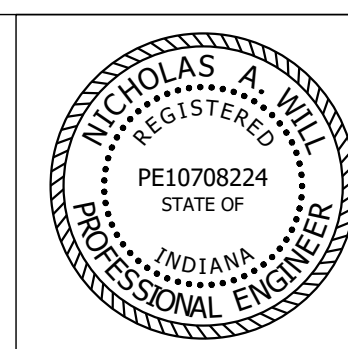
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	61 of 155
CONTRACT	PROJECT
R-41895	1900402





- LEGEND**
- (C) PCCP For Approaches, 6" Mod. on Dense Graded Subbase, on Subgrade Treatment Type II
  - (CI) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (DI) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (K) Multi-Use Trail 4" PCCP w/ Joints @ 8 Ft. Spacing on 4" Compacted Aggregate, No. 53 on Subgrade Treatment Type V
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
  - (NI) HMA For Patching, Type B 275#/SYS HMA Type B, Intermediate on 330#/SYS HMA Type B, Base on 3" Aggregated No. 53 Subgrade Treatment Type IV
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (14) Curb, Concrete, Modified
  - (15) Curb & Gutter, Concrete, Modified
  - (16) Curb, Integral Concrete, Modified
  - (17) Curb, Concrete
  - (18) Curb, Integral Concrete
  - (21) Steps
  - (26) Sodding, Nursery
  - (R) Concrete, Curb Ramp, 9" on 4" Compacted Aggregate, No. 53
  - (S) Detectable Warning Surface

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.



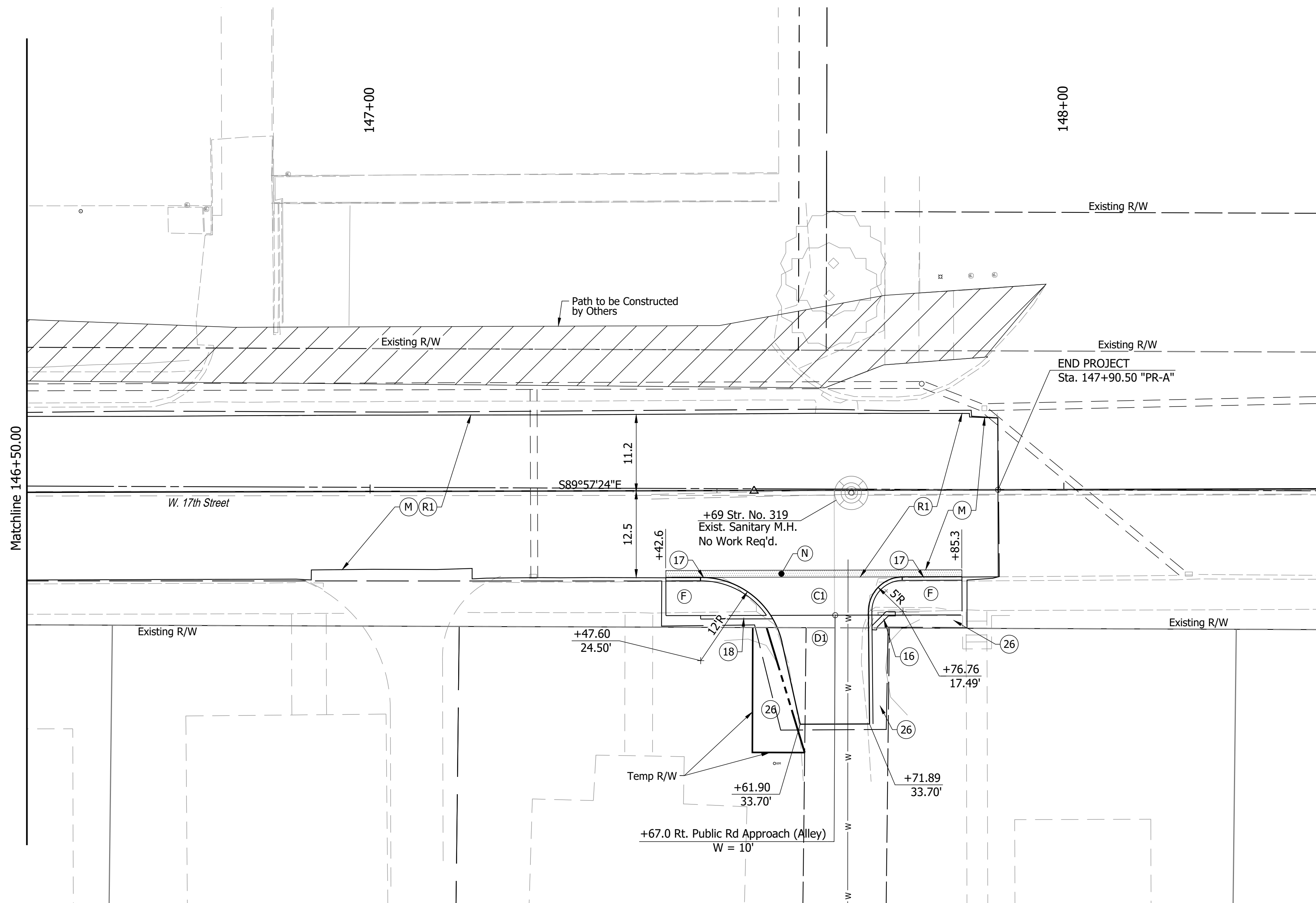
RECOMMENDED FOR APPROVAL: *Nicholas A. Will*  
DESIGN ENGINEER  
DATE: 12/27/2021

DESIGNED: JAF DRAWN: RTL  
CHECKED: NAW CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION DETAILS LINE "PR-A"  
STA. 143+50 TO 146+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	62 of 155
CONTRACT	PROJECT
R-41895	1900402

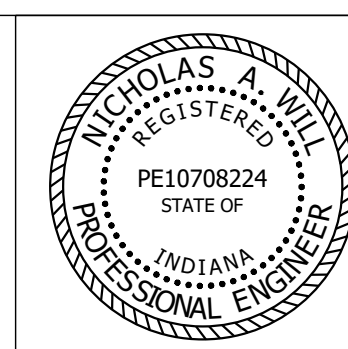
Date: Jan 04, 2022, 1:23pm User Name: edison  
File: S:\\_2019\19-0055(Road)\CAD\Misc\DWG\Const-Detail\_143+50 to 146+50.dwg



- LEGEND**
- (C1) PCCP For Approaches, 9" Mod. on Dense Graded Subbase, 6", on Geogrid Type IB on Subgrade Treatment Type II
  - (D1) 1100#/SY HMA for Approaches, Type B on 165#/SY HMA Surface, Type B on 275#/SY HMA Intermediate, Type B on 660#/SY HMA Base, Type B on Subgrade Treatment Type II Geogrid Type IB on
  - (F) Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
  - (M) Milling, Asphalt, 1.5"
  - (N) PCC Base Patching, 7" on 3" Compacted Aggregate, No. 53 Subgrade Treatment Type IV
  - (R1) 165#/SYS QC/QA-HMA 3, 64, Surface 9.5mm on Variable Depth HMA Wedge & Level, Type B (Varies 0" To 4")
  - (16) Curb, Integral Concrete, Modified
  - (17) Curb, Concrete
  - (18) Curb, Integral Concrete
  - (26) Sodding, Nursery

Date: Dec 31, 2021, 3:11pm User Name: eolson  
File: S:\\_2019\119-0055 (Road)\CAD\Misc\DWG\Const-Detail\_143+50 to 148+50.dwg

**Notes:**  
All Stationing off Line "PR-A" Unless Otherwise Noted.



RECOMMENDED FOR APPROVAL: *Nicholas A. Will* DESIGN ENGINEER 12/27/2021 DATE

DESIGNED: JAF DRAWN: RTL  
CHECKED: NAW CHECKED: JAF

INDIANA DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION DETAILS LINE "PR-A"  
STA. 146+50 TO 148+50

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	-
VERTICAL SCALE	DESIGNATION
---	1900402
SURVEY BOOK	SHEETS
	63 of 155
CONTRACT	PROJECT
R-41895	1900402



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**TRAFFIC/BPSC COMMISSION  
STAFF REPORT**

**Case #:** TC-22-03  
**Date:** March 23, 2022

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**FROM:** Neil Kopper, PE, Engineering Department

**REQUEST:** Adding traffic signals on Walnut Street at 11<sup>th</sup> Street and 14<sup>th</sup> Street

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**Location:** Walnut Street at 11<sup>th</sup> Street and 14<sup>th</sup> Street

**Description and purpose:** The City of Bloomington is adding traffic signals at two intersections on Walnut Street—11<sup>th</sup> Street and 14<sup>th</sup> Street intersections.

The traffic signals are being added to improve safety at these intersections.

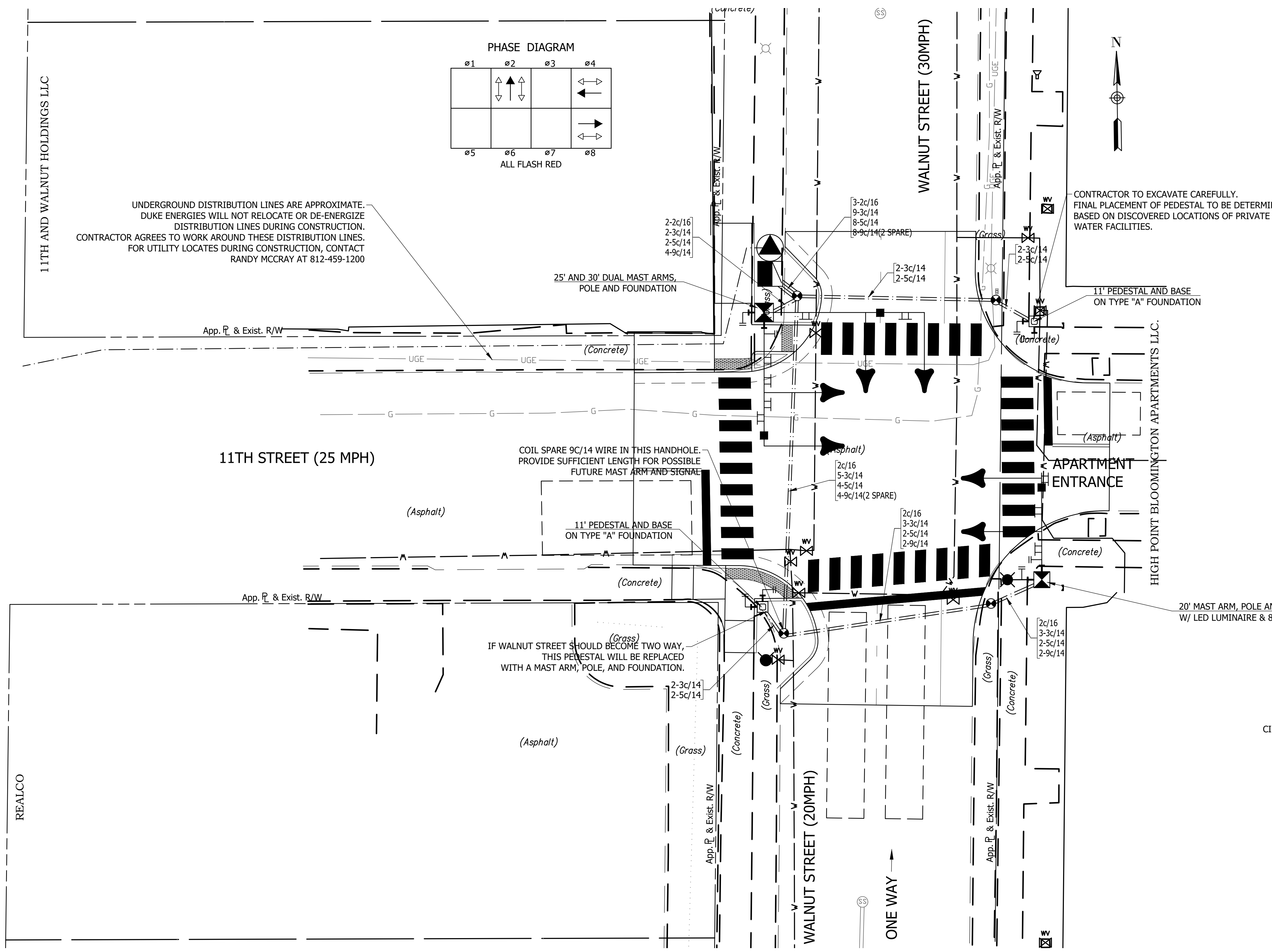
**Title 15 Changes:** A Title 15 amendment will be proposed to Council to add the intersections to the list of signalized intersections. Title 15 will need to be amended to correct and add intersections along this project to “15.20.020 Restricted turns on red at signalized intersections.”

---

**Recommendation:**

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.

DIRECTORY...F:\2019\19-4230 bloomington signals walnut & 11th and walnut & 14th\30 sheetdrawings\70 Signal  
 FILE...4230 Signal Plans.dwg  
 DIMSCALE...1 LTSCALE...1  
 PLOTTED BY...J.Eisenbauer  
 DATE...Jul 27, 2021 - 2:55pm

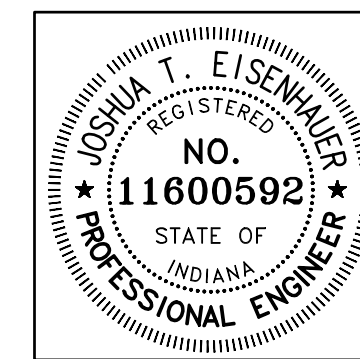
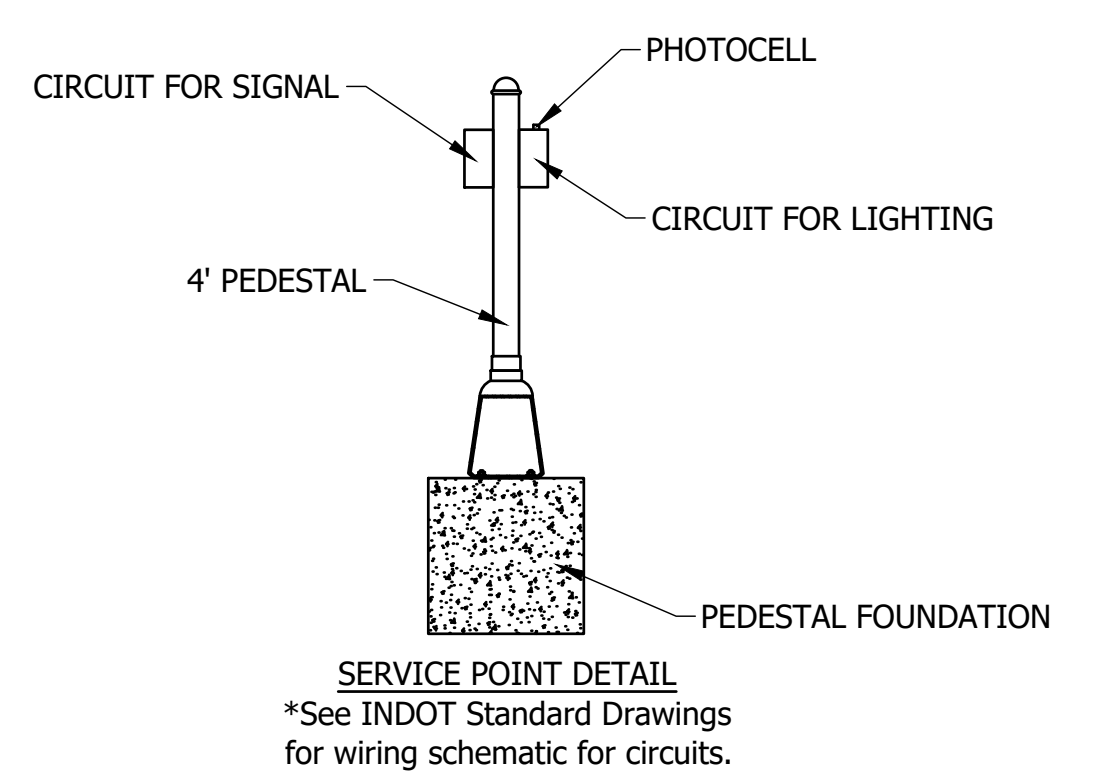


**LEGEND**

- 1-WAY, 3-SECTION (12-INCH RED, 12-INCH AMBER, 12-INCH GREEN) SIGNAL INDICATION
- CONTROLLER, 8-PHASE, MENU DRIVEN, IN CABINET ON BASE
- MAST ARM POLE AND FOUNDATION
- 11-FOOT PEDESTAL AND FOUNDATION
- HANDHOLE
- PEDESTRIAN INDICATION
- 2-INCH CONDUIT
- AUDIBLE PEDESTRIAN PUSH BUTTON AND SIGN
- VIDEO DETECTION UNIT
- SHEET SIGN (SEE SIGNING & MARKING PLAN)
- SERVICE POINT (FOR SIGNAL & LIGHTING)
- VIDEO DETECTION ZONE
- LED LUMINAIRE ON 8' ARM

**NOTES:**

- ADDITIONAL 9C/14 WIRE LABELED AS "SPARE" IS INSTALLED FOR THE POTENTIAL OF WALNUT STREET TO BE A 2-WAY ROAD IN THE FUTURE.
- ONE 3C/14 WIRE IS TO BE USED FOR LIGHTING POWER.
- PUSH BUTTONS TO BE WITHIN 10" REACH AND MOUNTED PERPENDICULAR TO CROSSINGS. USE OF EXTENSIONS IS ALLOWED TO ACHIEVE 10" REACH, WITH CITY APPROVAL.
- PEDESTRIAN INDICATION UNITS TO BE INSTALLED SUCH THAT ACCESS FOR MAINTENANCE CAN BE ACHIEVED WITHOUT REMOVING OR REPOSITIONING THE UNIT.
- FINAL LOCATION OF HANDHOLES AND CONDUIT TO BE FIELD PLACED TO AVOID UNDERGROUND UTILITY CONFLICTS.



RECOMMENDED FOR APPROVAL	<i>Joshua T. Eisenbauer</i>	6/23/2021
DESIGNED:	JTE	DRAWN:
CHECKED:	NRJ	CHECKED:
		JTE

**CITY OF BLOOMINGTON**

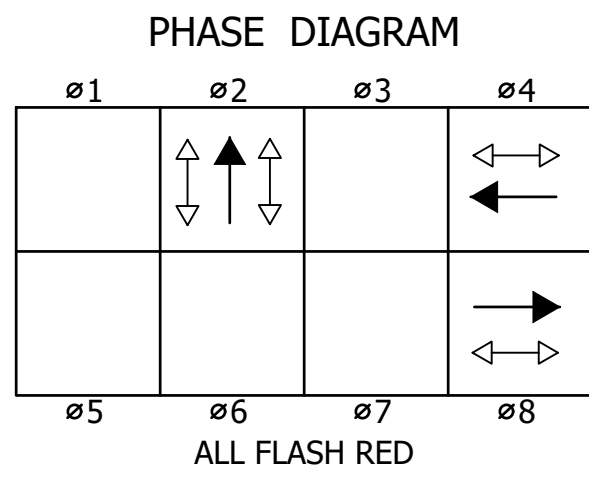
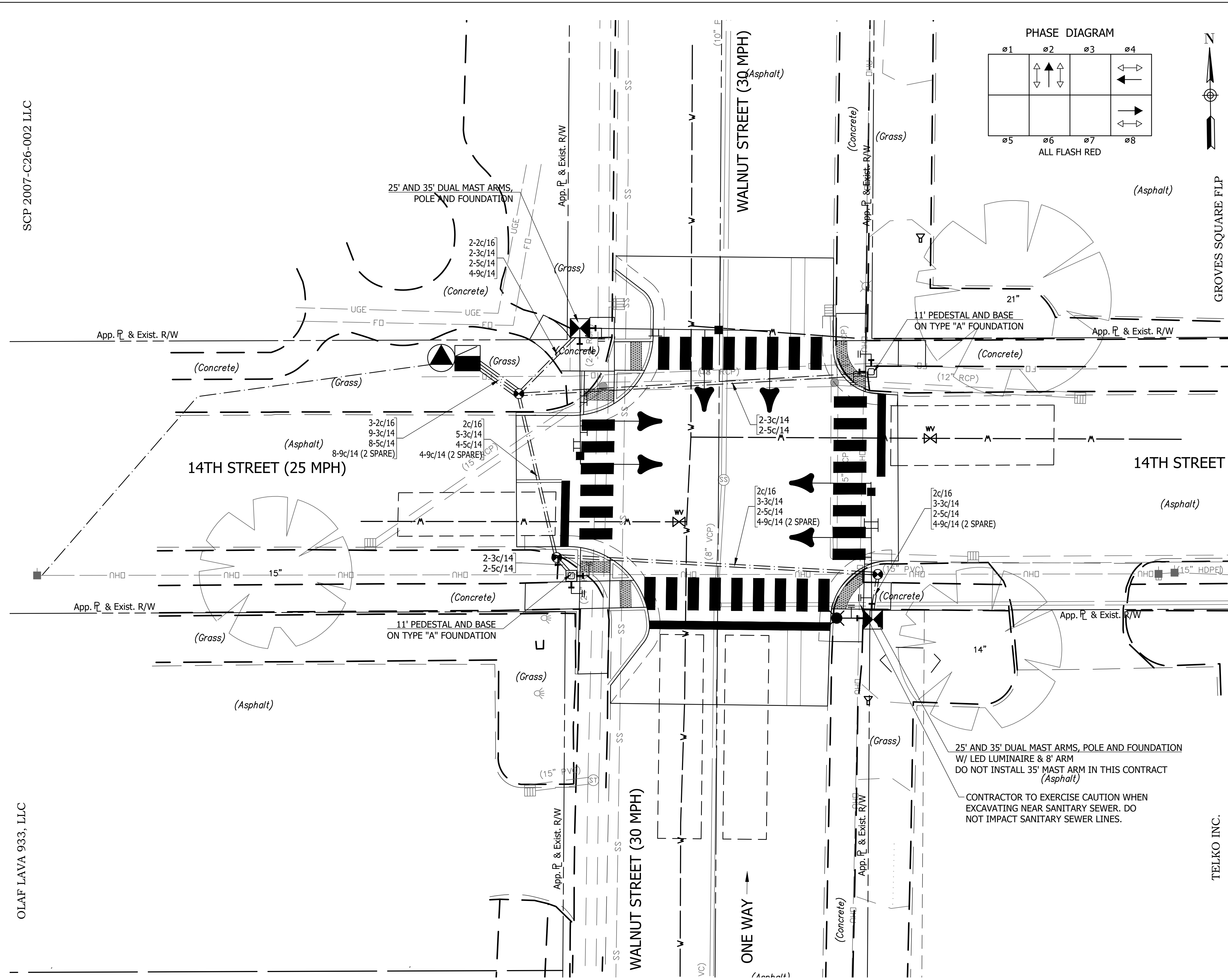
**WALNUT ST. & 11TH ST.  
SIGNAL LAYOUT**

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
	14 of 19
CONTRACT	PROJECT
	19-4230

DIRECTORY...F:\2019\19-4230 Bloomington signals walnut & 14th and walnut & 14th\30 sheetdrawings\70 Signal  
 FILE...4230 Signal Plans.dwg  
 DIMSCALE...1 LTSCALE...1  
 PLOTTED BY...J.Eisenhauer  
 DATE...Jul 27/2021 - 2:55pm

SCP 2007-C26-002 LLC

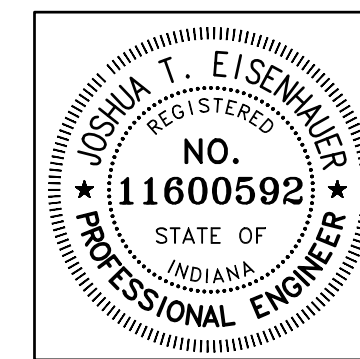
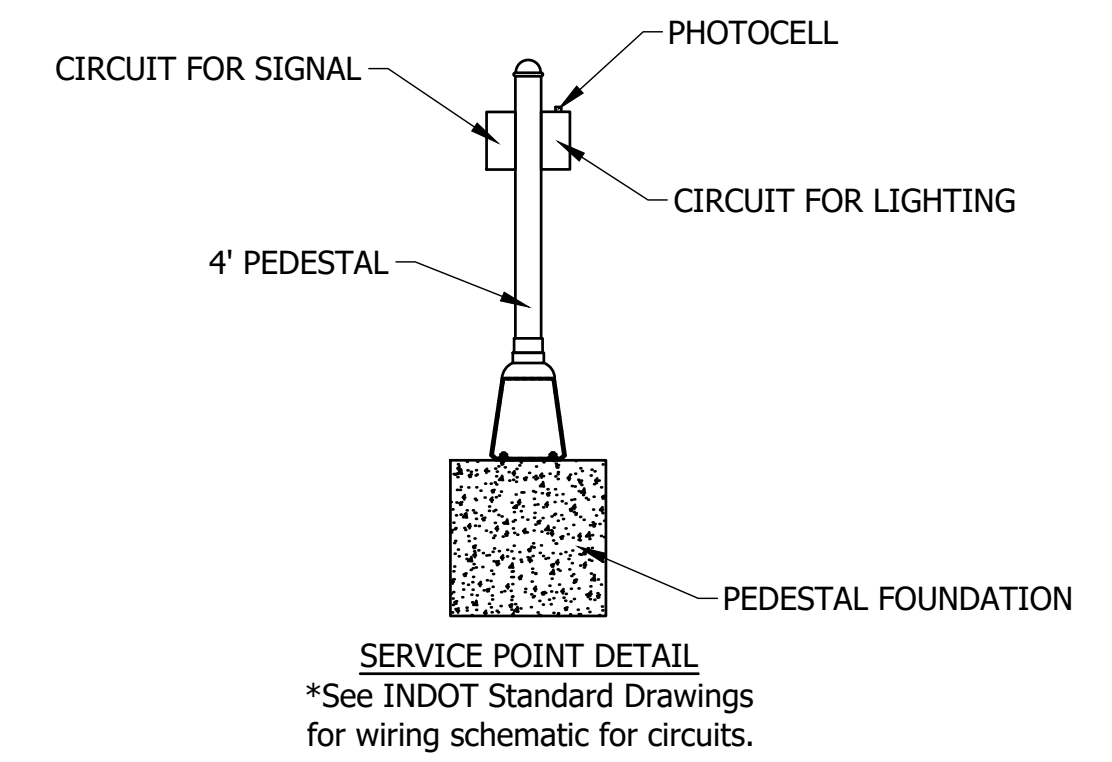
OLAF LAVA 933, LLC



**LEGEND**

- 1-WAY, 3-SECTION (12-INCH RED, 12-INCH AMBER, 12-INCH GREEN) SIGNAL INDICATION
- CONTROLLER, 8-PHASE, MENU DRIVEN, IN CABINET ON BASE
- MAST ARM POLE AND FOUNDATION
- 11-FOOT PEDESTAL AND FOUNDATION
- HANDHOLE
- PEDESTRIAN INDICATION
- 2-INCH CONDUIT
- AUDIBLE PEDESTRIAN PUSH BUTTON AND SIGN
- VIDEO DETECTION UNIT
- SHEET SIGN (SEE SIGNING & MARKING PLAN)
- SERVICE POINT (FOR SIGNAL & LIGHTING)
- VIDEO DETECTION ZONE
- LED LUMINAIRE ON 8' ARM

NOTES:  
 ADDITIONAL 9C/14 WIRE LABELED AS "SPARE" IS INSTALLED FOR THE POTENTIAL OF WALNUT STREET TO BE A 2-WAY ROAD IN THE FUTURE.  
 ONE 3C/14 WIRE IS TO BE USED FOR LIGHTING POWER.  
 PUSH BUTTONS TO BE WITHIN 10" REACH AND MOUNTED PERPENDICULAR TO CROSSINGS. USE OF EXTENSIONS IS ALLOWED TO ACHIEVE 10" REACH, WITH CITY APPROVAL.  
 PEDESTRIAN INDICATION UNITS TO BE INSTALLED SUCH THAT ACCESS FOR MAINTENANCE CAN BE ACHIEVED WITHOUT REMOVING OR REPOSITIONING THE UNIT.  
 FINAL LOCATION OF HANDHOLES AND CONDUIT TO BE FIELD PLACED TO AVOID UNDERGROUND UTILITY CONFLICTS.



RECOMMENDED FOR APPROVAL	<i>Joshua T. Eisenhauer</i>	6/23/2021
DESIGNED:	JTE	DRAWN:
CHECKED:	NRJ	CHECKED:
		DATE
		DESIGN ENGINEER
		DATE

CITY OF BLOOMINGTON  
 WALNUT ST. & 14TH ST.  
 SIGNAL LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
SURVEY BOOK	DESIGNATION
CONTRACT	N/A
	SHEETS
	15 of 19
	PROJECT
	19-4230



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**TRAFFIC/BPSC COMMISSION  
STAFF REPORT**

**Case #:** TC-22-04  
**Date:** March 23, 2022

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**FROM:** Neil Kopper, PE, Engineering Department

**REQUEST:** Crosswalk improvements at three locations

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**Location:** 3<sup>rd</sup> Street and Grant Street; 11<sup>th</sup> Street, Diamond Street, and Blair Avenue; Patterson Drive, 3<sup>rd</sup> Street, and Isaac Drive

**Description and purpose:** The City of Bloomington is adding crosswalk improvements at three intersections.

The purpose of the crosswalk improvements is to improve safety for pedestrians specifically and all street users generally.

Improving street crossings for pedestrians is consistent with the Transportation Plan's mode priority stating that "pedestrians should receive the greatest priority, because they are the most vulnerable and the most space-efficient road user." Pedestrian improvements are consistent with multiple Comprehensive Plan goals, such as Goal 6.3 Improve the Bicycle and Pedestrian Network: Maintain, improve, and expand an accessible, safe, and efficient network for pedestrians, and attain platinum status as a Bicycle Friendly Community, as rated by the League of American Bicyclists."

**Title 15 Changes:** Currently there is a section of Title 15, "15.20.010 Restricted turn intersections" with Schedule G. The purpose appears to be to list intersections where there are turn restrictions, distinct from the sections "restricted turns on red at signalized intersections." However, schedule G is blank. Staff recommends removing this second from code. If a turn is restricted at an intersection, the restriction is posted or the turn is not possible due to physical objects (medians, curbs, off-set, etc.).

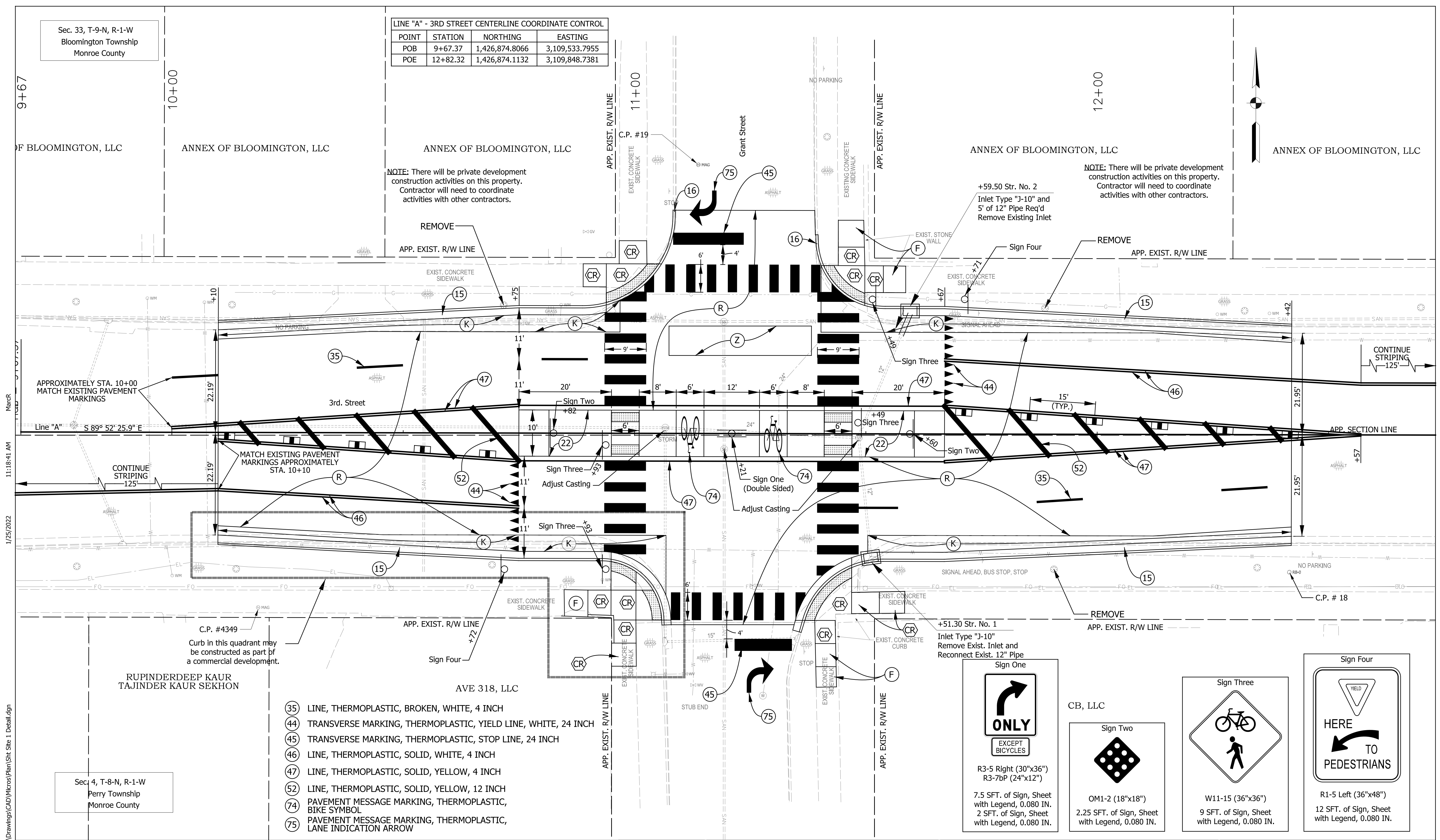
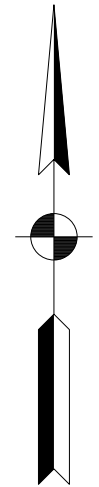
---

**Recommendation:**

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.

Sec. 33, T-9-N, R-1-W  
Bloomington Township  
Monroe County

POINT	STATION	NORTHING	EASTING
POB	9+67.37	1,426,874.8066	3,109,533.7955
POE	12+82.32	1,426,874.1132	3,109,848.7381



NOTE: There will be private development construction activities on this property. Contractor will need to coordinate activities with other contractors.

NOTE: There will be private development construction activities on this property. Contractor will need to coordinate activities with other contractors.

C.P. #4349  
Curb in this quadrant may be constructed as part of a commercial development.

- (35) LINE, THERMOPLASTIC, BROKEN, WHITE, 4 INCH
- (44) TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 24 INCH
- (45) TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, 24 INCH
- (46) LINE, THERMOPLASTIC, SOLID, WHITE, 4 INCH
- (47) LINE, THERMOPLASTIC, SOLID, YELLOW, 4 INCH
- (52) LINE, THERMOPLASTIC, SOLID, YELLOW, 12 INCH
- (74) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, BIKE SYMBOL
- (75) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, LANE INDICATION ARROW
- (K) FULL DEPTH HMA WIDENING: 275 #/SY HMA INTERMEDIATE, TYPE B on 880 #/SY HMA BASE, TYPE B
- (R) HMA RESURFACE: 1-1/2" SURFACE MILLING 165#/SY QC/Q-HMA, 3, 64, SURFACE
- (Z) HMA PATCHING, TYPE B (SAME LAYERS AS "K")
- (15) MODIFIED COMBINED CONCRETE CURB AND GUTTER (VERTICAL)
- (16) CONCRETE CURB (VERTICAL)
- (22) CONCRETE CENTER CURB, TYPE C
- (CR) RAISED PAVEMENT MARKER (SNOWPLOWABLE)

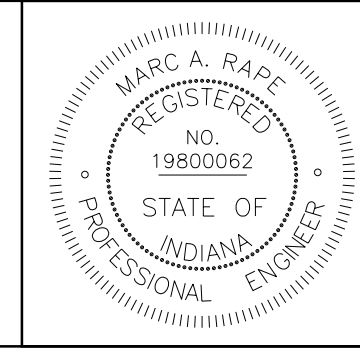
7.5 SFT. of Sign, Sheet with Legend, 0.080 IN.  
2.25 SFT. of Sign, Sheet with Legend, 0.080 IN.

2.25 SFT. of Sign, Sheet with Legend, 0.080 IN.

9 SFT. of Sign, Sheet with Legend, 0.080 IN.

12 SFT. of Sign, Sheet with Legend, 0.080 IN.

LEGEND	
	DETECTABLE WARNING SURFACE
	CR CURB RAMP, CONCRETE
	F CONCRETE SIDEWALK
	C 6 IN. PCCP FOR DRIVEWAYS



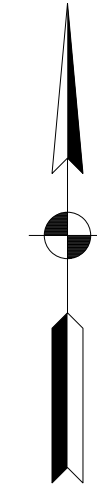
RECOMMENDED FOR APPROVAL	<i>Marc A. Rape</i>	9/27/2021
DESIGNED: SWW	DRAWN: SWW	DATE
CHECKED: MAR	CHECKED: MAR	

INDIANA  
DEPARTMENT OF TRANSPORTATION

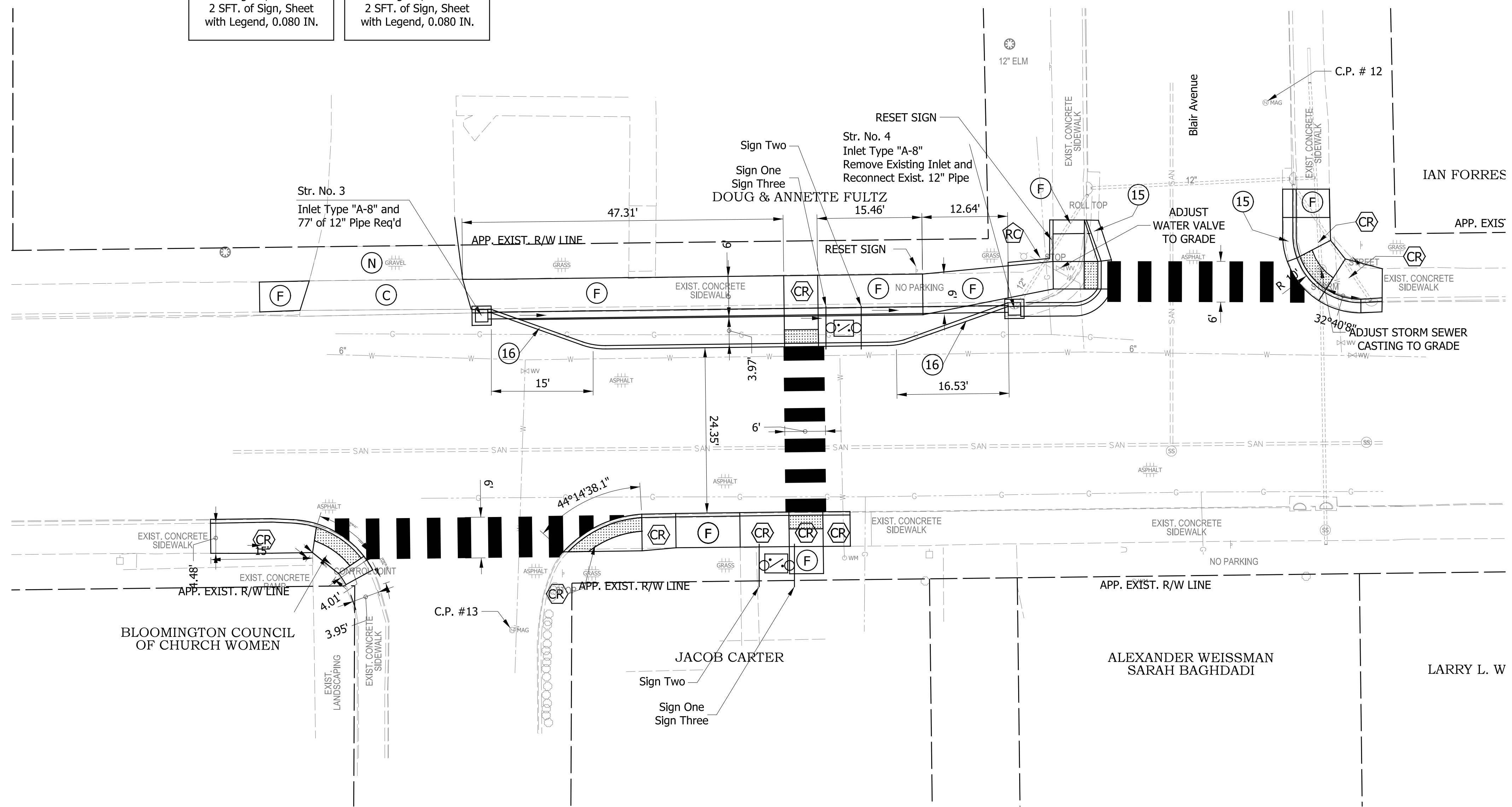
SITE 1  
3rd STREET & GRANT STREET

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION NO.
N/A	1700976
SURVEY BOOK NO.	SHEETS
ELECTRONIC	5 of 15
CONTRACT NO.	PROJECT NO.
R-40337	1700976

S:\COL\4600-4699\4697\002\Drawings\CAD\Micros\Plan\Site 1 Detail.dgn 1/25/2022 11:18:41 AM



<p>Sign One</p> <p>9 SFT. of Sign, Sheet with Legend, 0.080 IN. 2 SFT. of Sign, Sheet with Legend, 0.080 IN.</p>	<p>Sign Two</p> <p>W11-2 (36"x36") W16-7P Left (24"x12")</p> <p>9 SFT. of Sign, Sheet with Legend, 0.080 IN. 2 SFT. of Sign, Sheet with Legend, 0.080 IN.</p>	<p>Sign Three</p> <p>R10-25 (9"x12")</p> <p>0.75 SFT. of Sign, Sheet with Legend, 0.080 IN.</p>
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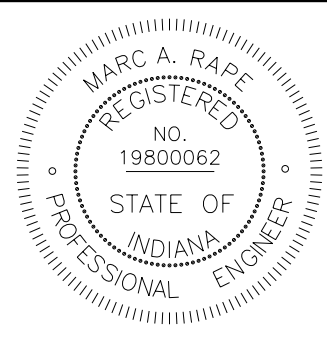


MarcR  
 11:01:57 AM  
 1/25/2022

S:\COL\4600-4699\4607\002\Drawings\CAD\Micros\Plan\Site 2 Detail.dgn

- DETECTABLE WARNING SURFACE
- CURB RAMP, CONCRETE
- F
- 6 IN. PCCP FOR DRIVEWAYS
- MODIFIED COMBINED CONCRETE CURB AND GUTTER (VERTICAL)
- CONCRETE CURB (VERTICAL)
- COMPACTED AGGREGATE, NO. 53 (6 INCH DEPTH)

- RETURN CURB
- RECTANGULAR RAPID FLASH BEACON (DOUBLE SIDED)



RECOMMENDED FOR APPROVAL *Marc A. Rape* 9/27/2021  
 DESIGN ENGINEER DATE

DESIGNED: SWW DRAWN: SWW  
 CHECKED: MAR CHECKED: MAR

INDIANA  
 DEPARTMENT OF TRANSPORTATION

SITE 2 CROSSING  
 11th ST. & DIAMOND ST. / BLAIR AVE.

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	1700976
SURVEY BOOK NO.	SHEETS
ELECTRONIC	7 of 15
CONTRACT NO.	PROJECT NO.
R-40337	1700976







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**TRAFFIC/BPSC COMMISSION  
STAFF REPORT**

**Case #:** TC-22-05  
**Date:** March 23, 2022

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**FROM:** Neil Kopper, PE, Engineering Department

**REQUEST:** Adding traffic signal at Tapp Road and Deborah Drive

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**Location:** Tapp Road and Deborah Drive

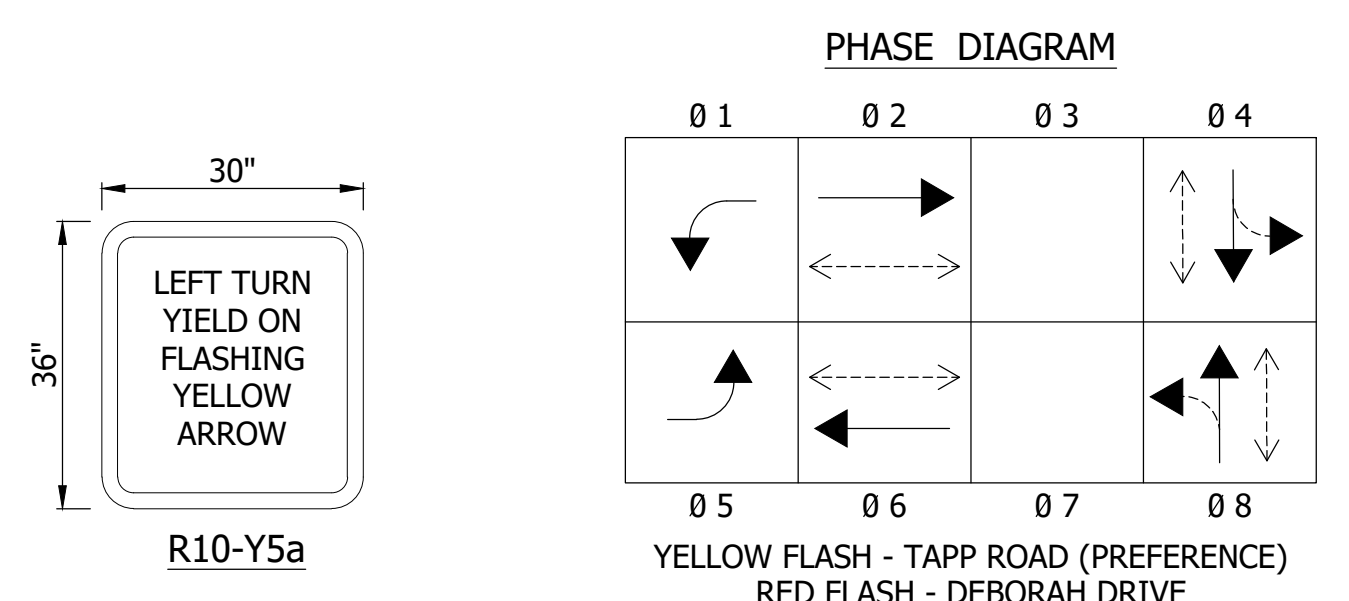
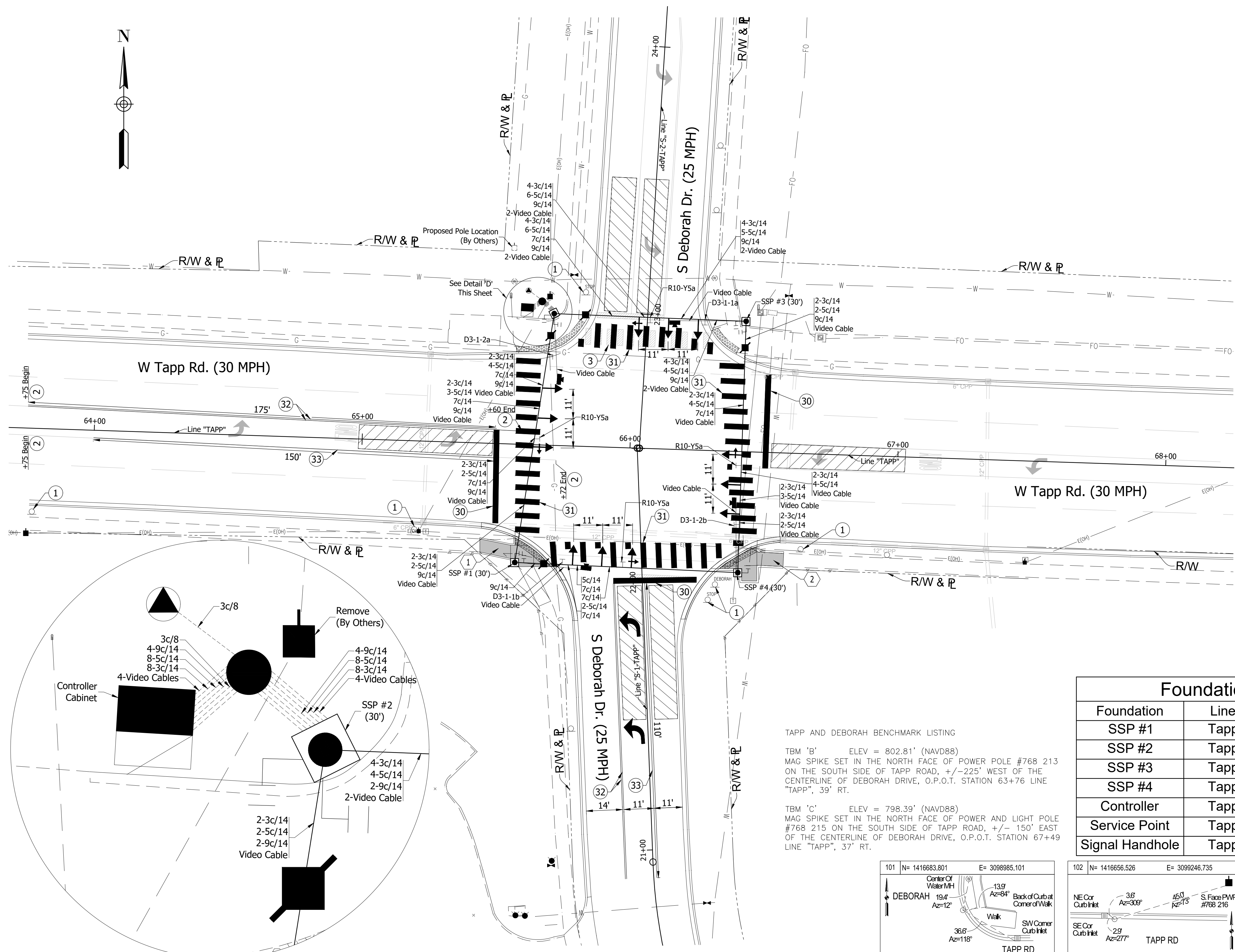
**Description and purpose:** The City of Bloomington will be adding a traffic signal at the Tapp Road and Deborah Drive intersection. This is in connection with an Indiana Department of Transportation (INDOT) project.

**Title 15 Changes:** A Title 15 amendment will be proposed to Council to add the intersections to the list of signalized intersections.

---

**Recommendation:**

Staff recommends that the Commission forward the Title 15 changes to Council with a positive recommendation.



See City of Bloomington Standard Drawing SS-1, Street Name Sign Details

- LEGEND**
- ① Sign, Remove
  - ② Line, Remove
  - ③ Transverse Marking, Remove
  - ③① Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
  - ③② Transverse Marking, Thermoplastic, Crosswalk Line, 24 in. See Detail, Sheet 9
  - ③③ Line, Thermoplastic, Solid, Yellow, 4 in.
  - ③④ Line, Thermoplastic, Solid, White, 4 in.
  - ⊕ Curb Ramp No. \_\_, Concrete, Sheet No. 9
  - Span, Catenary, and Tether
  - 2" Galvanized Steel Conduit
  - Silt Fence
  - Signal Handhole, Type 1
  - ⊠ Steel Strain Pole (30')
  - ▲ Signal Service Point, H-Frame Structure Mounted See Duke Energy 'Gold Book' Figure 117
  - Disconnect Hanger
  - ⊕ 18" LED Pedestrian Signal Indication with Countdown Timer and APS Push Button (Speech Walk Message) and R10-3e Sign
  - 1-Way, 3-Section (12" Red LED, 12" Yellow LED, 12" Green LED) Signal Indication With Backplate
  - ↔ 1-Way, 4-Section (12" Red LED, 12" Yellow Arrow LED, 12" Flashing Yellow Arrow LED, 12" Green Arrow LED) Signal Indication With Backplate
  - ⊕ 8-Phase Fully Actuated Econolite Cobalt TS-2 Type 1 Controller, Applied Information unit 500-085-02, and Cabinet on 'P' Foundation
  - ⊕ Video Detection Camera With 25' Mast Arm (Autoscope RackVision Terra)
  - ▨ Video Detection Zone
  - ⊕ Curb Ramp, Concrete
  - ↔ Proposed Message Marking, Thermoplastic, Lane Indication Arrow

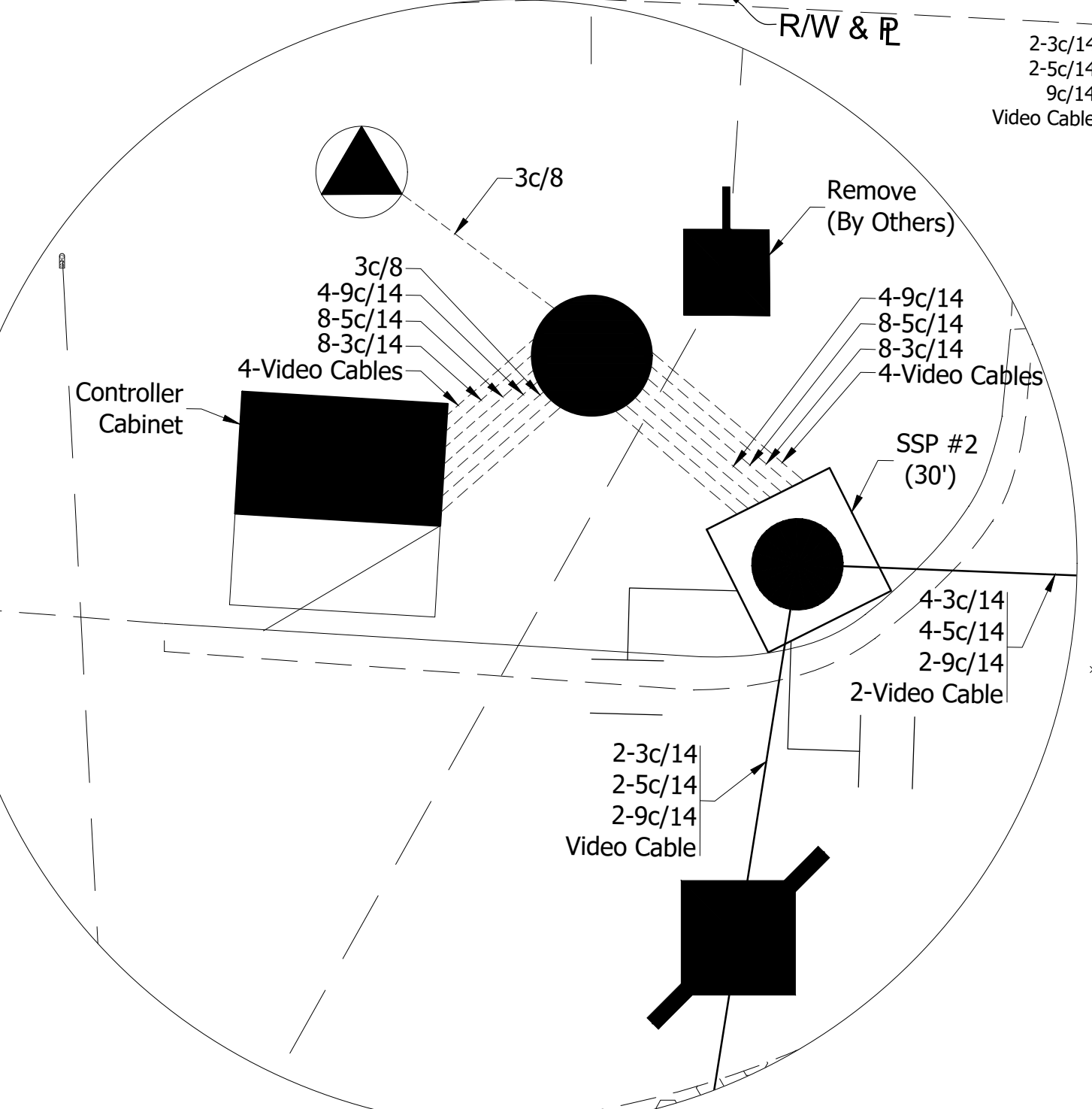
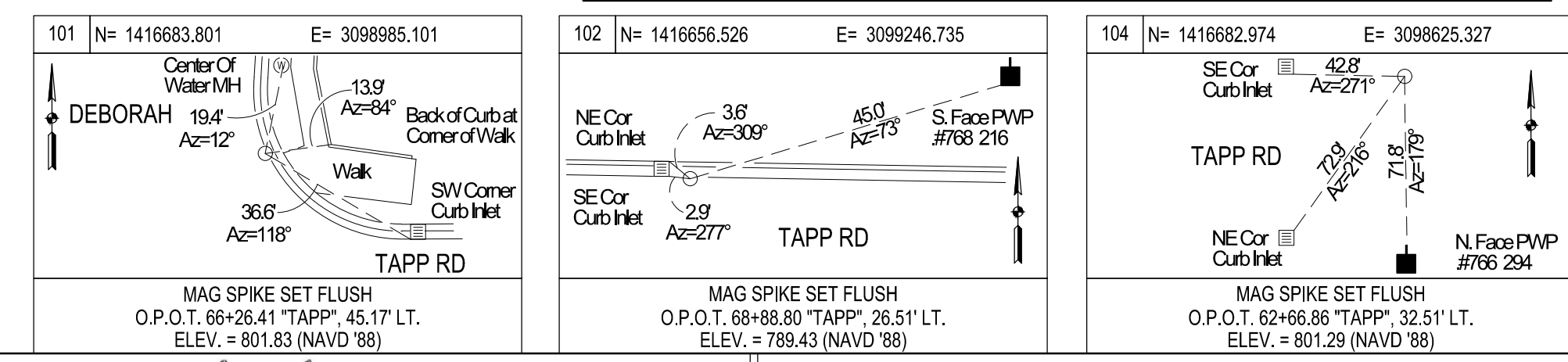
**Foundation Schedule**

Foundation	Line	Station	Offset
SSP #1	Tapp	65+58	44.1' Rt.
SSP #2	Tapp	65+70	49.7' Lt.
SSP #3	Tapp	66+42	48.6' Lt.
SSP #4	Tapp	66+42	45.2' Rt.
Controller	Tapp	65+60	47.8' Lt.
Service Point	Tapp	65+60	57.4' Lt.
Signal Handhole	Tapp	65+65	53.6' Lt.

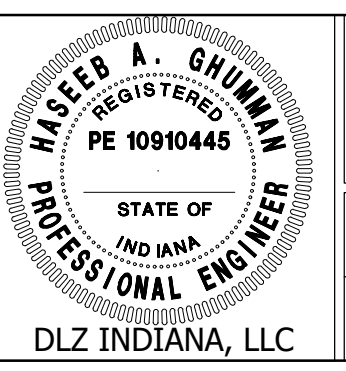
**TAPP AND DEBORAH BENCHMARK LISTING**

TBM 'B' ELEV = 802.81' (NAVD88)  
MAG SPIKE SET IN THE NORTH FACE OF POWER POLE #768 213 ON THE SOUTH SIDE OF TAPP ROAD, +/- 225' WEST OF THE CENTERLINE OF DEBORAH DRIVE, O.P.O.T. STATION 63+76 LINE "TAPP", 39' RT.

TBM 'C' ELEV = 798.39' (NAVD88)  
MAG SPIKE SET IN THE NORTH FACE OF POWER AND LIGHT POLE #768 215 ON THE SOUTH SIDE OF TAPP ROAD, +/- 150' EAST OF THE CENTERLINE OF DEBORAH DRIVE, O.P.O.T. STATION 67+49 LINE "TAPP", 37' RT.



- NOTES:**
- All Signal Heads Shall Be Black With Black Backplates And Yellow Retroreflective Strips.
  - Video Cables Shall Be Installed Per Manufactures Recommendations.
  - Video Cables Denote A Coaxial Cable And A 3c/14 Cable for Video Detection Camera.
  - Add 6 in. Pushbutton Assembly Extensions At Each Location, As Directed By The Engineer.



RECOMMENDED FOR APPROVAL: *Haseb A. Ghuman*  
DESIGN ENGINEER DATE: 05/14/2024

DESIGNED: TAB DRAWN: TAB  
CHECKED: HAG CHECKED: JRS

INDIANA DEPARTMENT OF TRANSPORTATION

SIGNAL PLAN  
TAPP ROAD AND DEBORAH DRIVE

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	8 of 9
CONTRACT	PROJECT
---	---

Date: May 14, 2021, 2:11pm  
File: X:\Projects\GFI\2017\1763\108270\INDOT L-69 Sec. 5\Tapp & Deborah\Civil\DWG\10825610.dwg Model Tab: 10825610 - Signal Plan