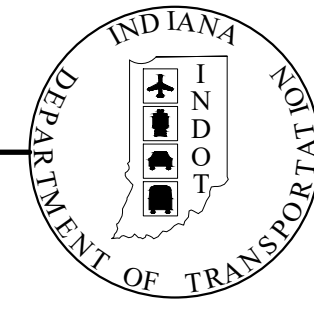


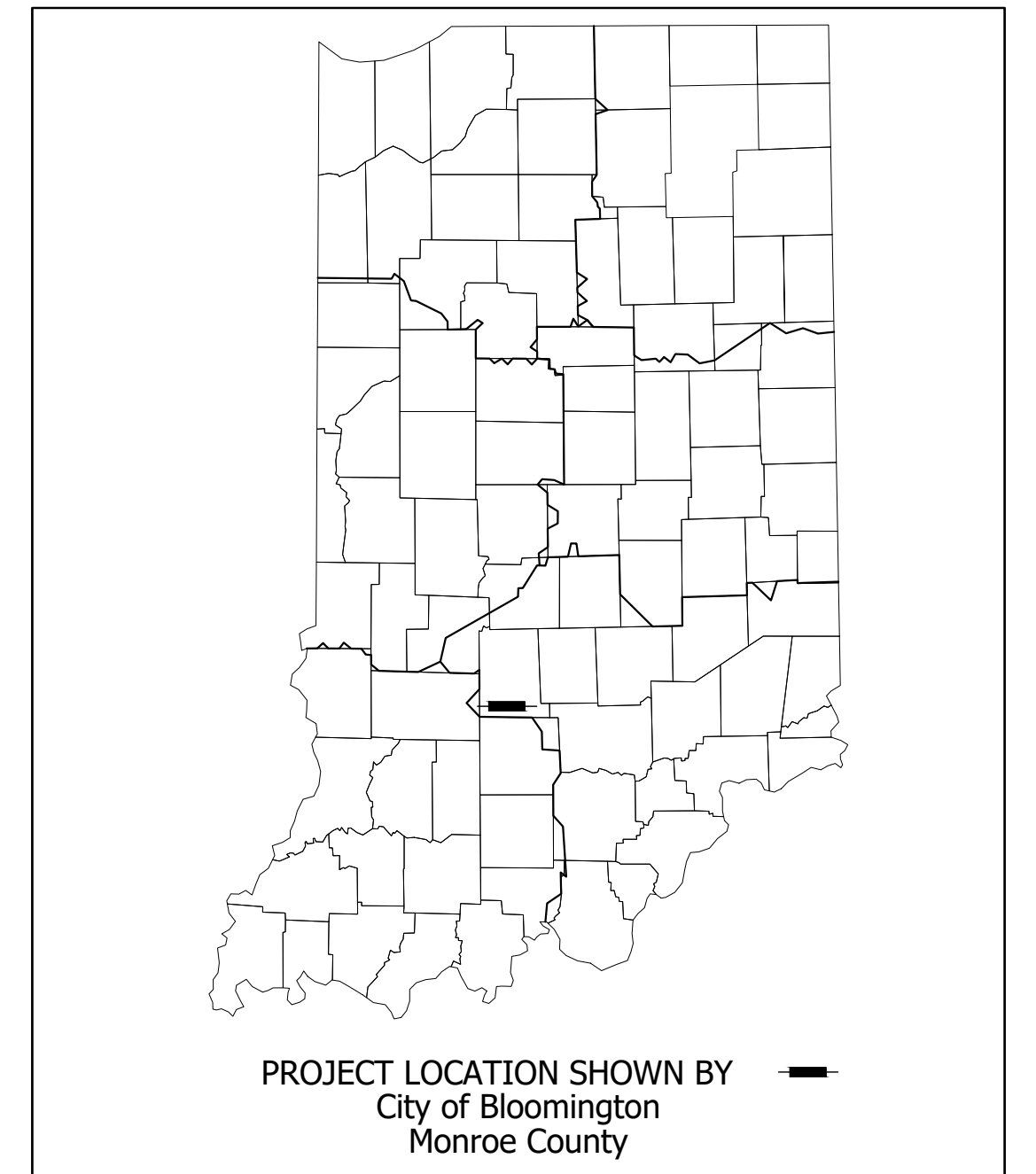
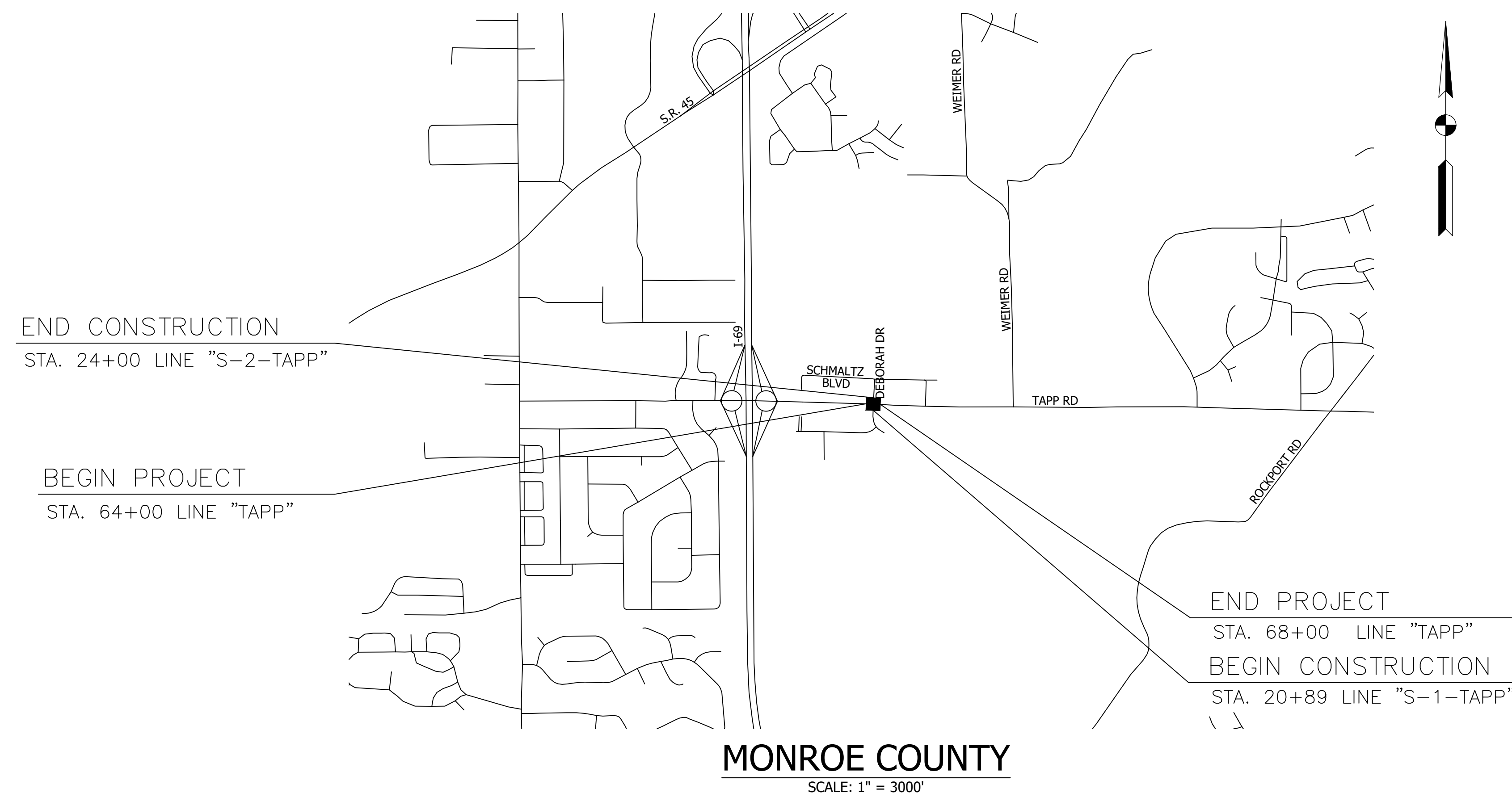
INDIANA DEPARTMENT OF TRANSPORTATION



TRAFFIC SIGNAL PLANS

Tapp Road and Deborah Drive Signal Installation

Signal installation at Tapp Road and Deborah Drive.
 Located approximately 0.25 miles east of I-69, in Sections 7 and 18,
 T-8-N, R-1-W, Perry Township, Monroe County, Indiana.

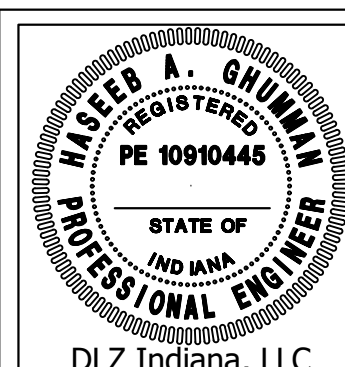


LATITUDE 39°08'11" N LONGITUDE 86°32'33" W

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020, CITY OF BLOOMINGTON CITY STANDARDS, IMUTCD, AND CURRENT SUPPLEMENTS, THERETO, TO BE USED WITH THESE PLANS

Signature 05/14/2021
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF INDIANA NO. 10910445



PLANS PRODUCED BY:
 DLZ INDIANA, LLC
 138 NORTH DELAWARE STREET
 INDIANAPOLIS, INDIANA 46204
 PHONE: (317) 633-4120
 FAX: (317) 633-4177



BRIDGE FILE	

DESIGNATION	
-	
SHEETS	
SURVEY BOOK	1 of 9
ELECTRONIC	
CONTRACT	PROJECT
-	-

UTILITIES			
UTILITY NAME	CONTACT	PHONE	EMAIL
AT&T Dist.	Russ Owen	812-606-2973	ro1325@att.com
CBU	Jane Fleig	812-349-3631	fleigj@bloomington.in.gov
Comcast	Richard Miller	317-945-2670	Richard_Miller3@comcast.com
Duke - Dist.	Zach Bertrand	317-804-3878	zachary.bertrand@duke-energy.com
Duke - Trans.	Zach Boston	317-838-1053	DEI-tline-Coord@duke-energy.com
Duke - Service Point	Chad Heacox	812-337-3043	chad.heacox@duke-energy.com
Smithville Telephone	Joe Brynarski	812-935-2262	Joe.brynarski@smithville.com
Vectren	Mostafa Khallad	765-287-2150	Mostafa.Khallad@centerpointenergy.com
City of Bloomington Street Department	Mike Stinson	812-349-3450	stinsonm@bloomington.in.gov

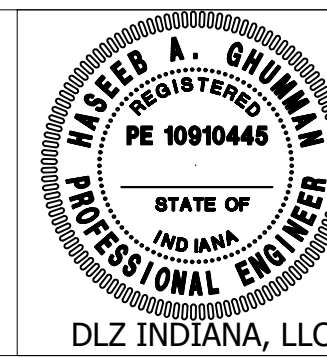
GENERAL NOTES

1. The Latest City of Bloomington City Standards, The Latest Indiana Manual on Uniform Traffic Control Devices, and Indiana Department Of Transportation Standard Specifications And Current Supplements Thereto To Be Used With These Plans, Unless Otherwise Noted In Project Plans And Specifications.
2. Prior To Beginning Any Work Activities Associated With This Plan, The Contractor Shall Notify All Utilities And Have Their Utilities Located And Marked.

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX
3-6	MAINTENANCE OF TRAFFIC
7	PEDESTRIAN MAINTENANCE OF TRAFFIC
8	SIGNAL PLAN
9	CURB RAMP DETAILS

REVISIONS		
SHEET NO.	DATE	REVISED

Date: May 14, 2021, 3:33pm
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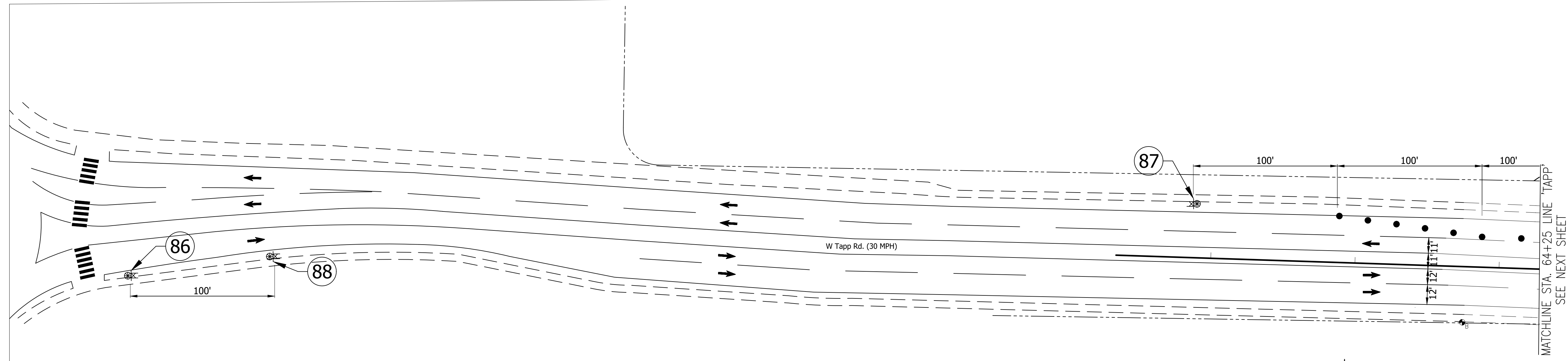
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DESIGNED:	TAB	DRAWN:	TAB	
CHECKED:	HAG	CHECKED:	HAG	

INDIANA
DEPARTMENT OF TRANSPORTATION

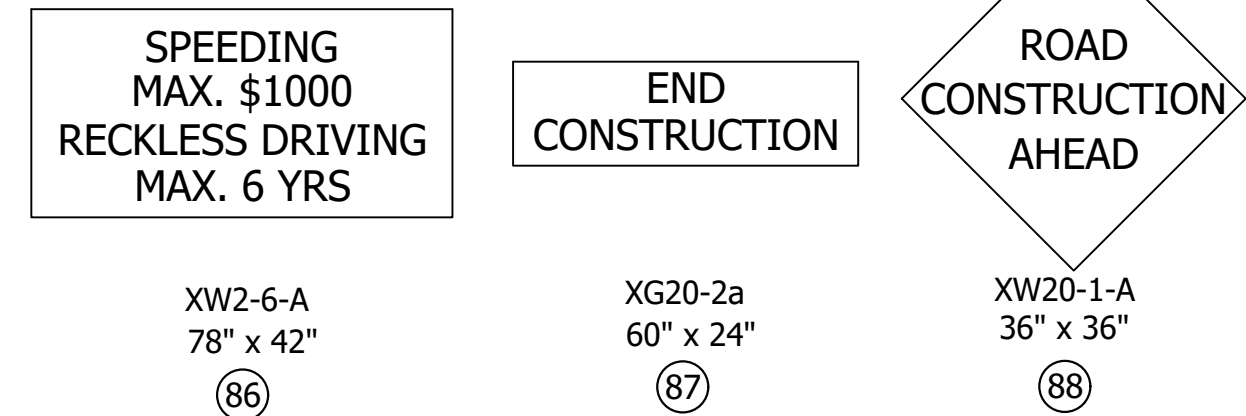
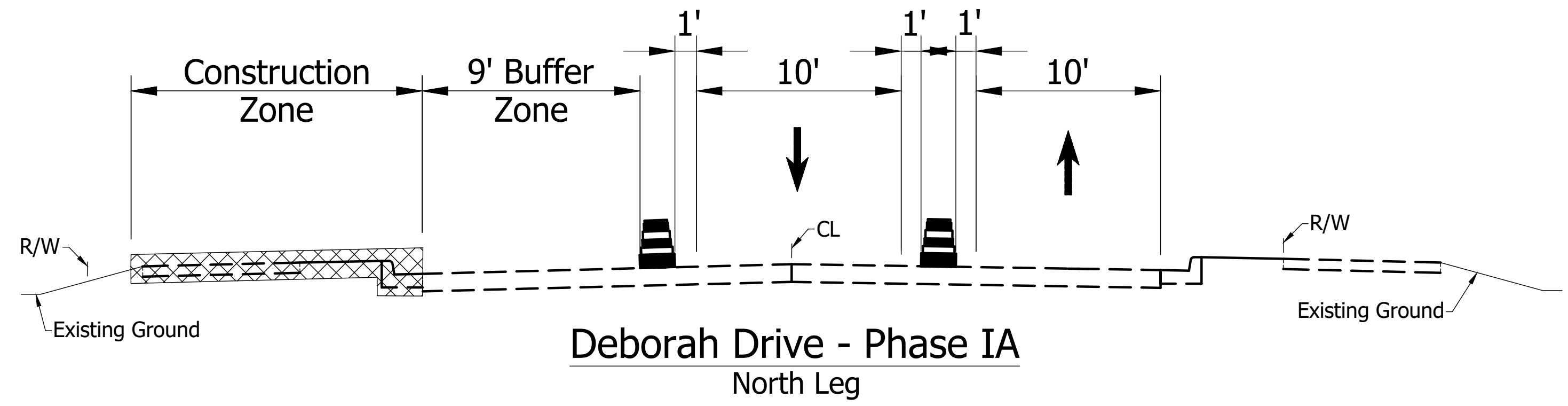
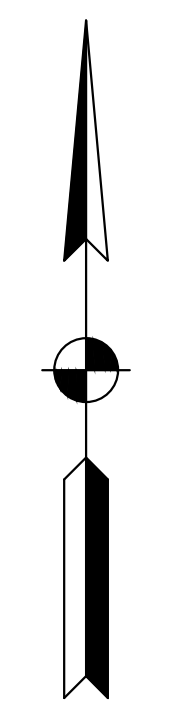
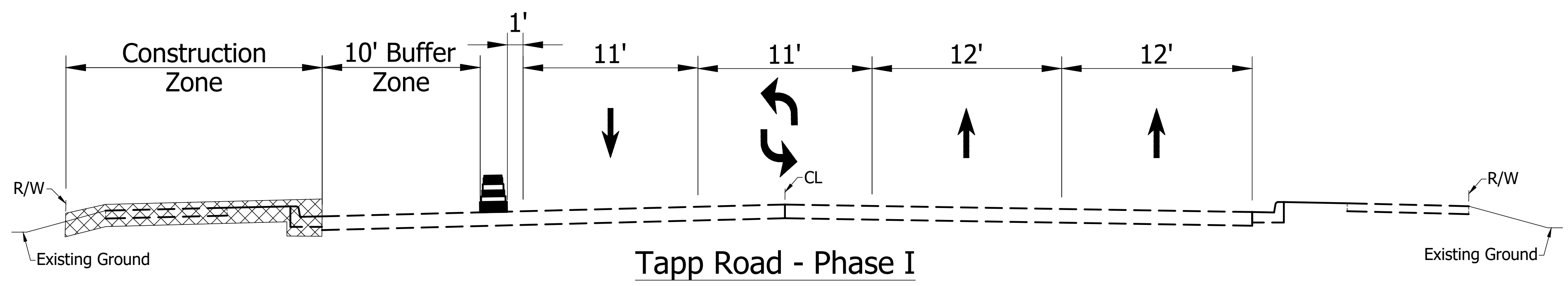
INDEX

HORIZONTAL SCALE	BRIDGE FILE
N/A	---
VERTICAL SCALE	DESIGNATION

SURVEY BOOK	SHEETS
---	2 of 9
CONTRACT	PROJECT
---	---



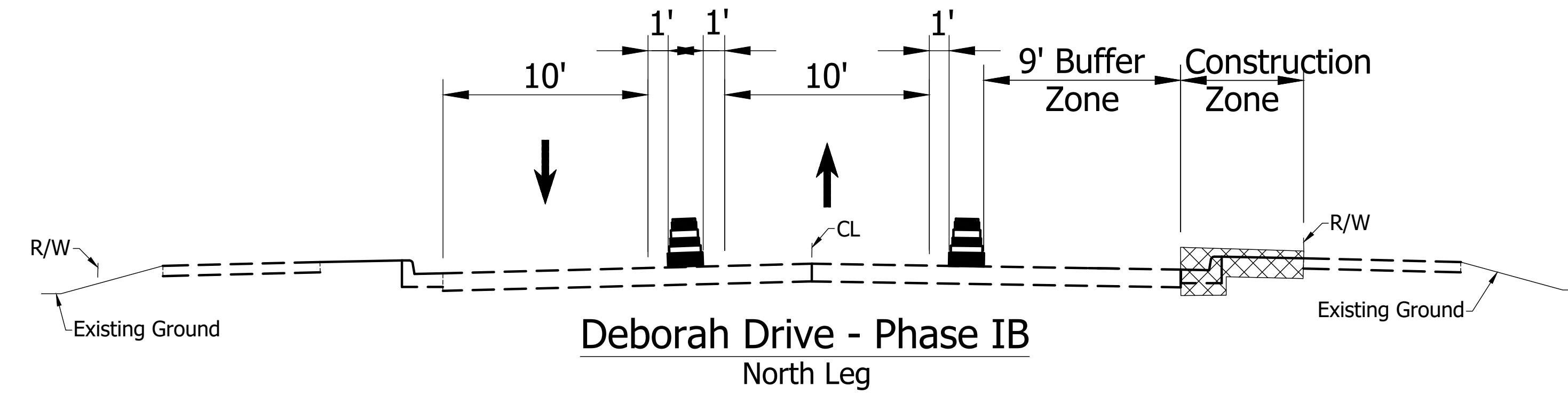
- LEGEND**
- Ⓢ XW2-6-A "WORKSITE ADDED PENALTY" Sign
 - Ⓢ XG20-2a "END CONSTRUCTION" Sign
 - Ⓢ XW20-1-A "ROAD CONSTRUCTION AHEAD" Sign
 - ➔ DIRECTION OF TRAFFIC
 - STANDARD DRUM
 - ⚡ CONSTRUCTION SIGN
 - ⊗ TYPE 'A' CONSTRUCTION WARNING LIGHT
 - ▨ AREA UNDER CONSTRUCTION



CONSTRUCTION SIGNS, TYPE "A"

- NOTES**
- All Signs, Barricades, and Pavement Markings Shall Conform To The Latest Indiana Manual On Traffic Control Devices For Streets And Highways, And Any Current Revisions Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Spacing of Channelizing Devices on Tangents Shall be 40' Unless Otherwise Noted.
 - Spacing of Channelizing Devices on Tapers Shall be 20' Unless Otherwise Noted.
 - Contractor to Allow Access for Emergency Vehicles at all Times.
 - Escort Any Pedestrians Safely Through The Project Site.

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
XG20-2a	1 EACH
XW2-6-A	1 EACH
XW20-1-A	1 EACH
TOTAL TYPE 'A' SIGN	3 EACH



SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
XG20-2a	"END CONSTRUCTION" Sign	60 x 24
XW2-6-A	WORKSITE ADDED PENALTY SIGN	78 x 42
XW20-1-A	"ROAD CONSTRUCTION AHEAD" Sign	36 x 36

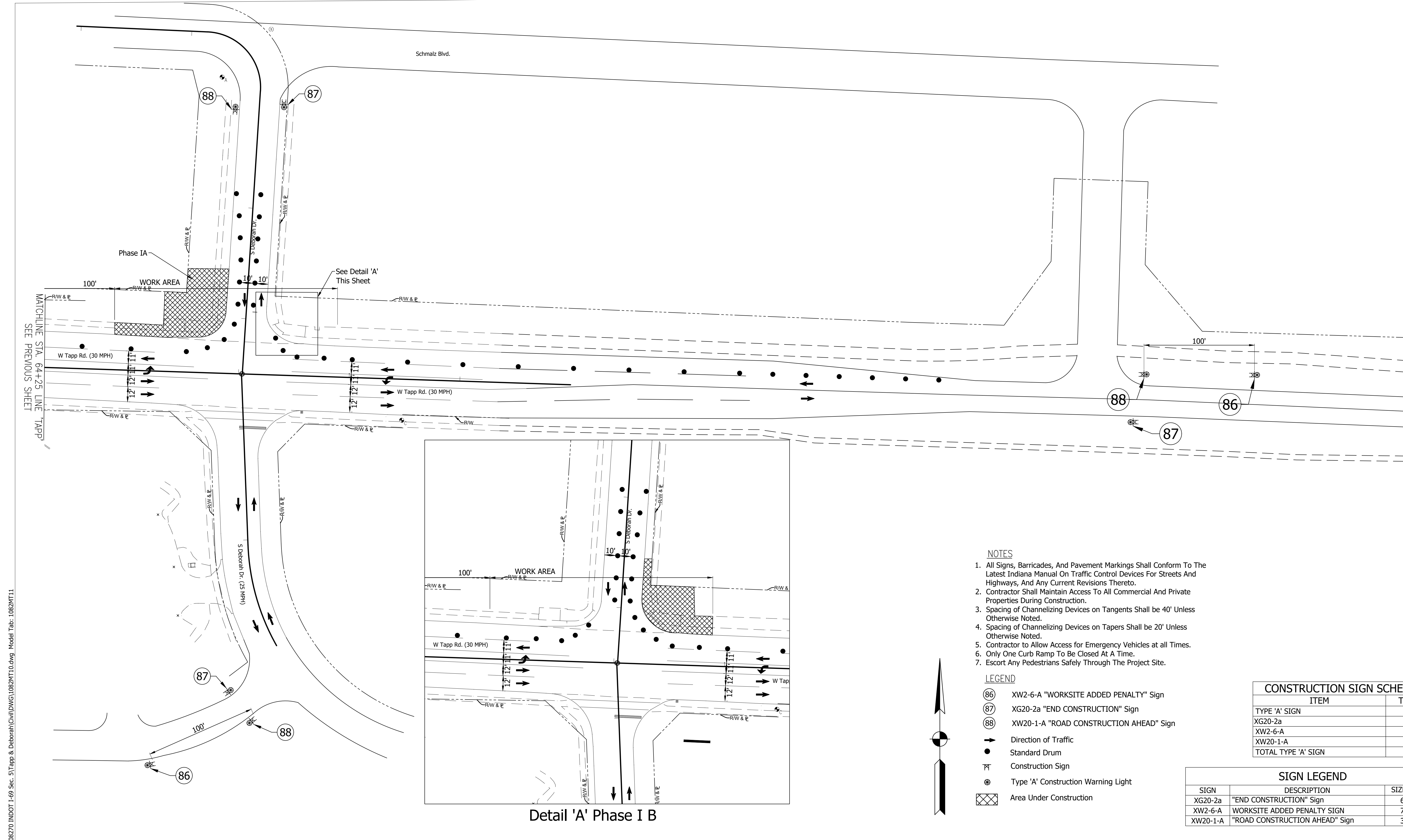
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RECOMMENDED FOR APPROVAL	<i>Rajesh A. Ghuman</i>	DESIGN ENGINEER	DATE
DESIGNED:	TAB	DRAWN:	TAB
CHECKED:	HAG	CHECKED:	FS

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE I A & B

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	3 of 9
CONTRACT	PROJECT
---	---



- NOTES**
1. All Signs, Barricades, And Pavement Markings Shall Conform To The Latest Indiana Manual On Traffic Control Devices For Streets And Highways, And Any Current Revisions Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Spacing of Channelizing Devices on Tangents Shall be 40' Unless Otherwise Noted.
 4. Spacing of Channelizing Devices on Tapers Shall be 20' Unless Otherwise Noted.
 5. Contractor to Allow Access for Emergency Vehicles at all Times.
 6. Only One Curb Ramp To Be Closed At A Time.
 7. Escort Any Pedestrians Safely Through The Project Site.

- LEGEND**
- (86) XW2-6-A "WORKSITE ADDED PENALTY" Sign
 - (87) XG20-2a "END CONSTRUCTION" Sign
 - (88) XW20-1-A "ROAD CONSTRUCTION AHEAD" Sign
 - ➔ Direction of Traffic
 - Standard Drum
 - ⊠ Construction Sign
 - ⊙ Type 'A' Construction Warning Light
 - ⊞ Area Under Construction

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
XG20-2a	3 EACH
XW2-6-A	2 EACH
XW20-1-A	3 EACH
TOTAL TYPE 'A' SIGN	8 EACH

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
XG20-2a	"END CONSTRUCTION" Sign	60 x 24
XW2-6-A	WORKSITE ADDED PENALTY SIGN	78 x 42
XW20-1-A	"ROAD CONSTRUCTION AHEAD" Sign	36 x 36

Detail 'A' Phase I B

Date: May 14, 2021, 4:06pm
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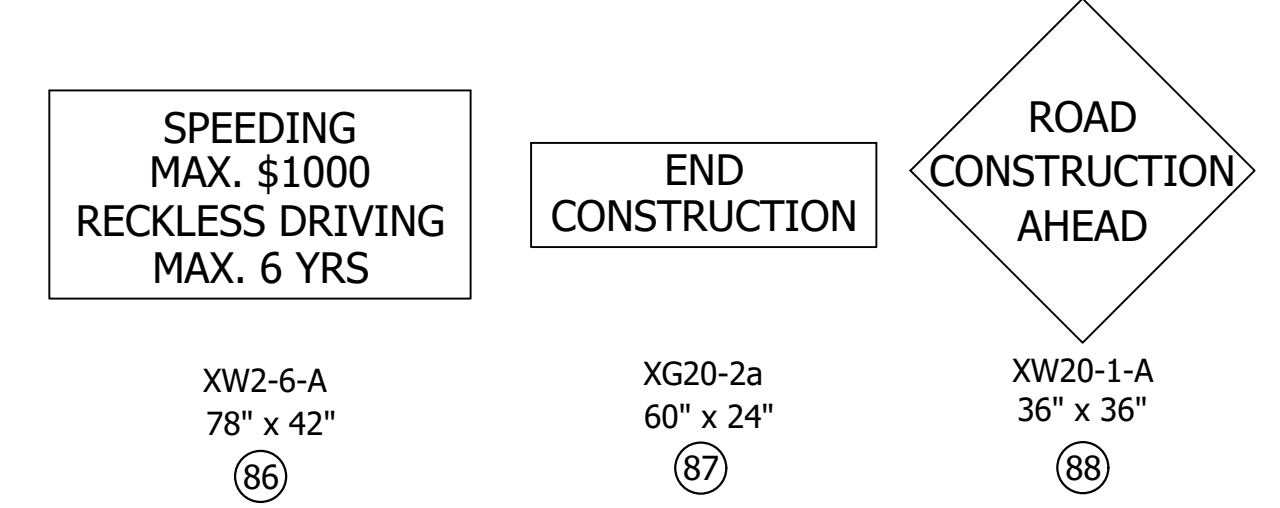
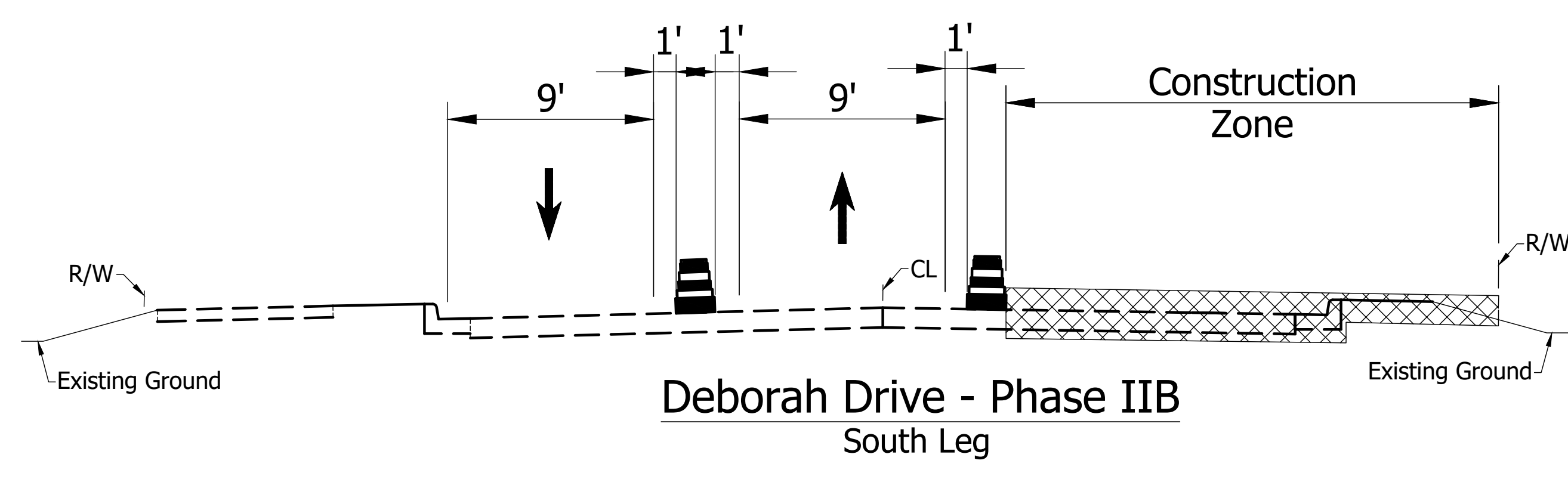
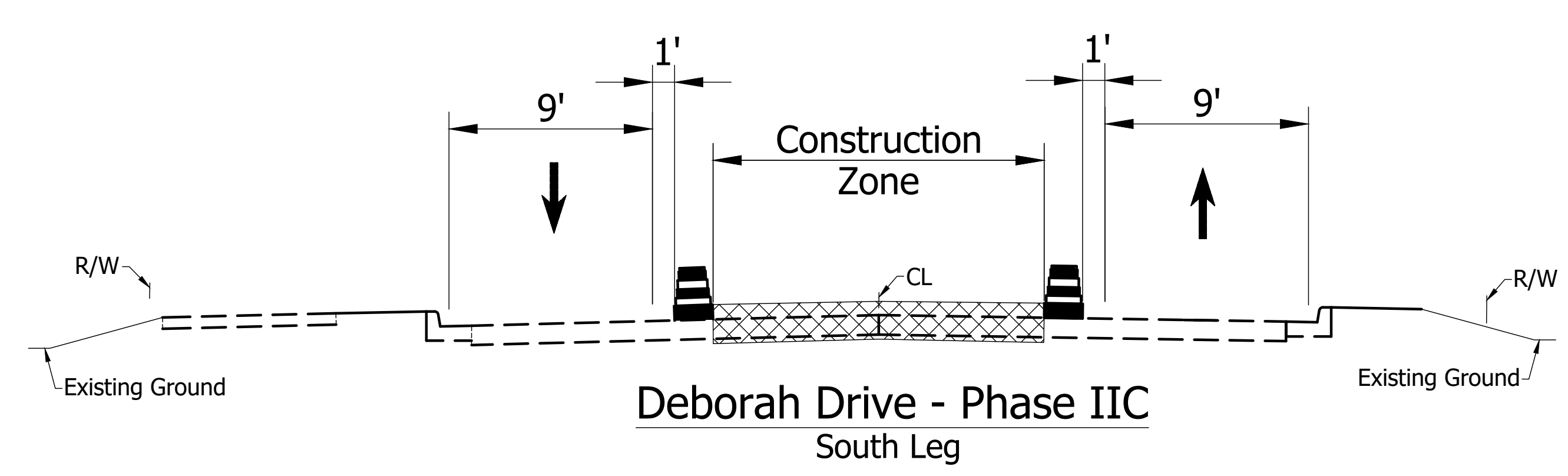
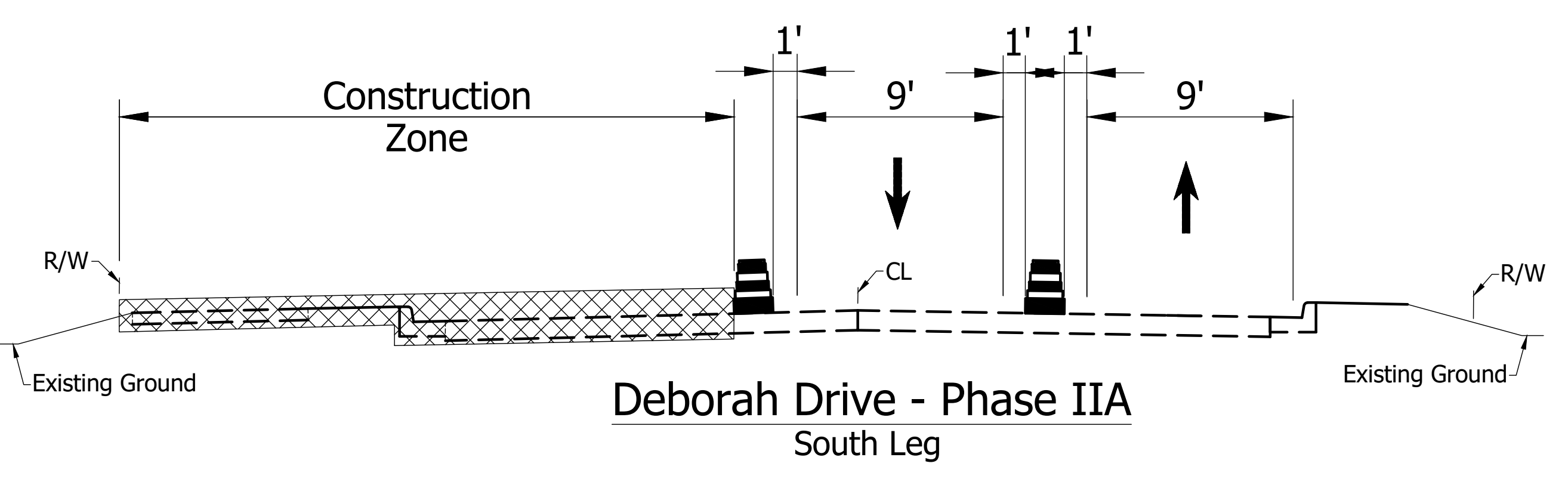
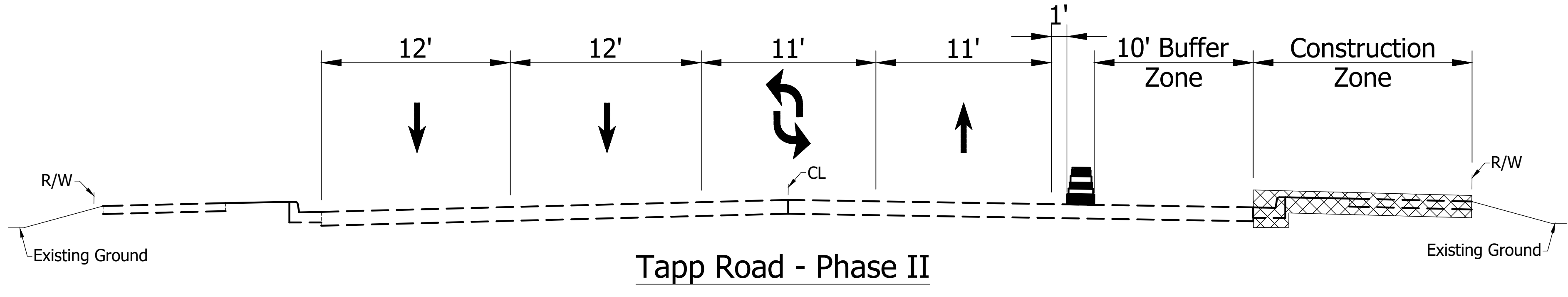
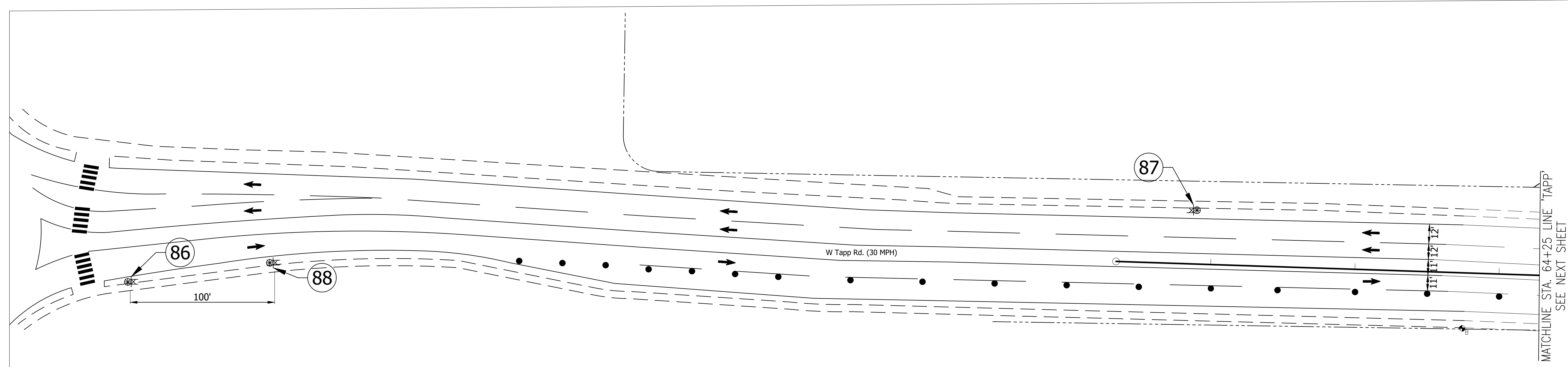
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DESIGNED:	TAB	DRAWN:	TAB
CHECKED:	HAG	CHECKED:	FS

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE I A & B

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	4 of 9
CONTRACT	PROJECT
---	---

- LEGEND**
- (86) XW2-6-A "WORKSITE ADDED PENALTY" Sign
 - (87) XG20-2a "END CONSTRUCTION" Sign
 - (88) XW20-1-A "ROAD CONSTRUCTION AHEAD" Sign
 - ➔ DIRECTION OF TRAFFIC
 - STANDARD DRUM
 - ▬ CONSTRUCTION SIGN
 - ⊗ TYPE 'A' CONSTRUCTION WARNING LIGHT
 - ▨ AREA UNDER CONSTRUCTION

- NOTES**
1. All Signs, Barricades, and Pavement Markings Shall Conform To The Latest Indiana Manual On Traffic Control Devices For Streets And Highways, And Any Current Revisions Thereto.
 2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 3. Spacing of Channelizing Devices on Tangents Shall be 40' Unless Otherwise Noted.
 4. Spacing of Channelizing Devices on Tapers Shall be 20' Unless Otherwise Noted.
 5. Contractor to Allow Access for Emergency Vehicles at all Times.
 6. Close and Construct Deborah Drive One Lane at a Time. Must Maintain Two-Way Traffic.
 7. Escort Any Pedestrians Safely Through the Project Site.



CONSTRUCTION SIGNS, TYPE "A"

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
XG20-2a	"END CONSTRUCTION" Sign	60 x 24
XW2-6-A	WORKSITE ADDED PENALTY SIGN	78 x 42
XW20-1-A	"ROAD CONSTRUCTION AHEAD" Sign	36 x 36

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
XG20-2a	1 EACH
XW2-6-A	1 EACH
XW20-1-A	1 EACH
TOTAL TYPE 'A' SIGN	3 EACH

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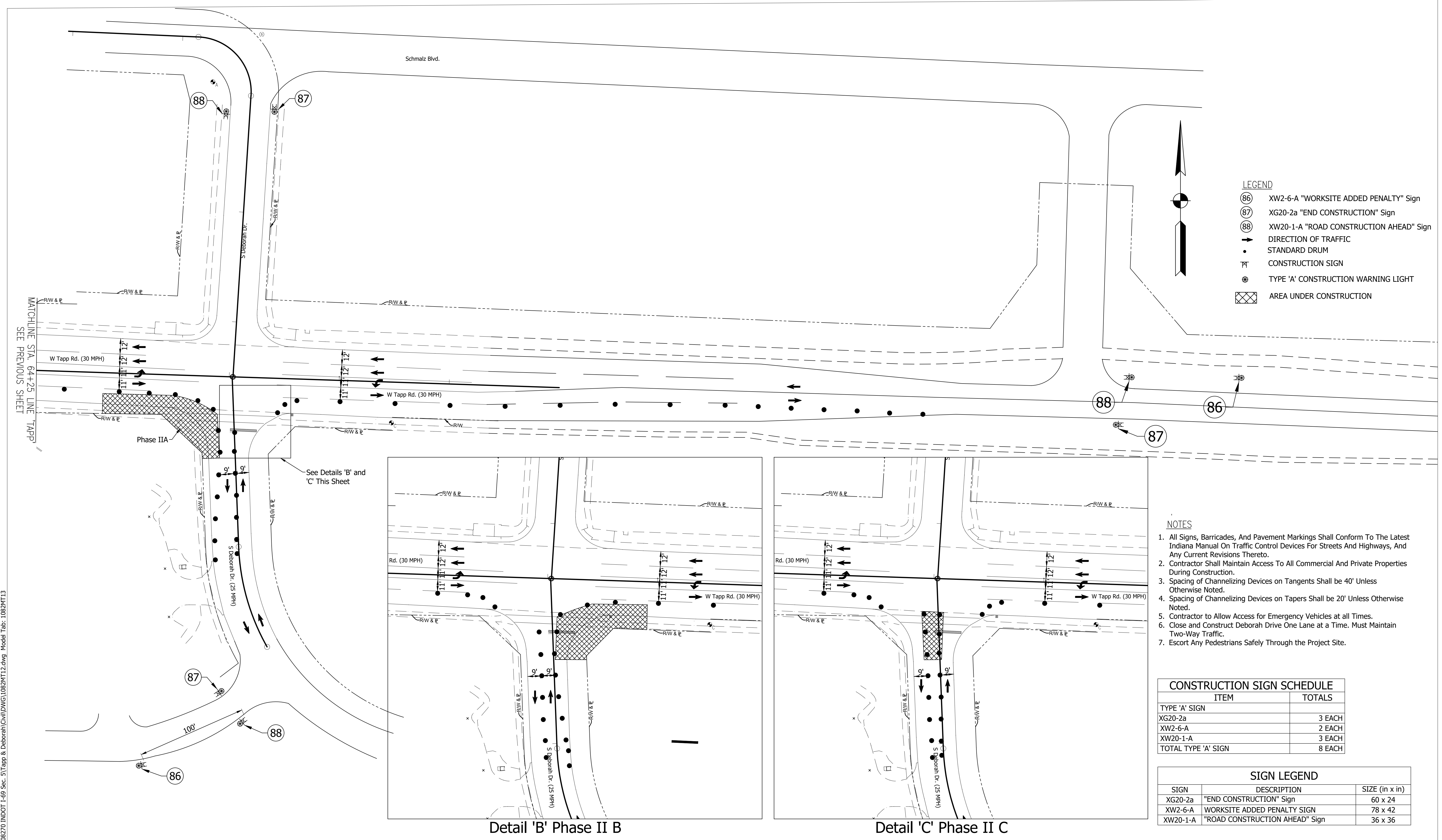


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	DATE
DESIGNED:	TAB	DRAWN:	TAB
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INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II A, B, AND C

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	5 of 9
CONTRACT	PROJECT
---	---

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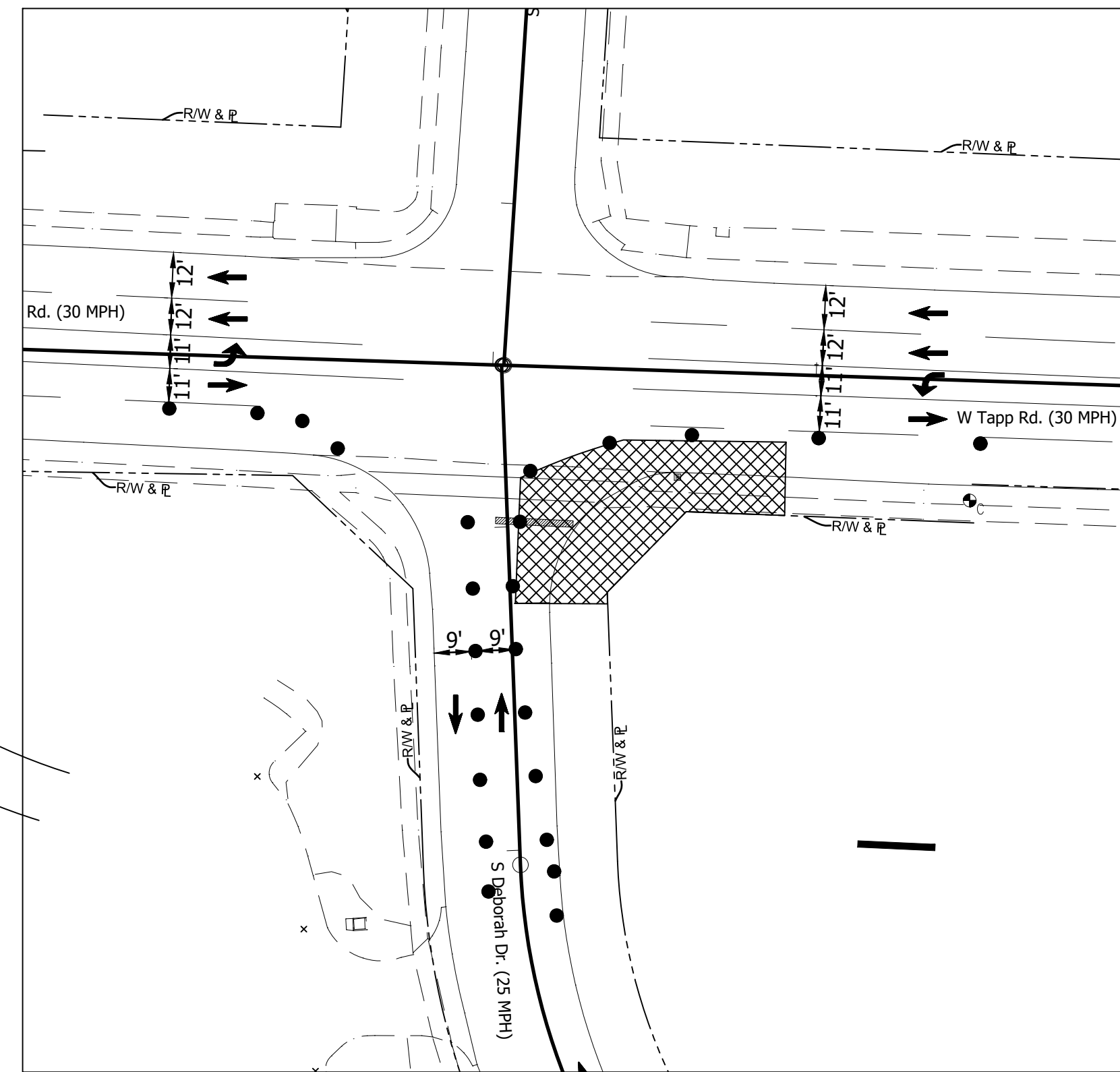
LEGEND

- ⊙86 XW2-6-A "WORKSITE ADDED PENALTY" Sign
- ⊙87 XG20-2a "END CONSTRUCTION" Sign
- ⊙88 XW20-1-A "ROAD CONSTRUCTION AHEAD" Sign
- ➔ DIRECTION OF TRAFFIC
- STANDARD DRUM
- ⊠ CONSTRUCTION SIGN
- ⊙ TYPE 'A' CONSTRUCTION WARNING LIGHT
- ▨ AREA UNDER CONSTRUCTION

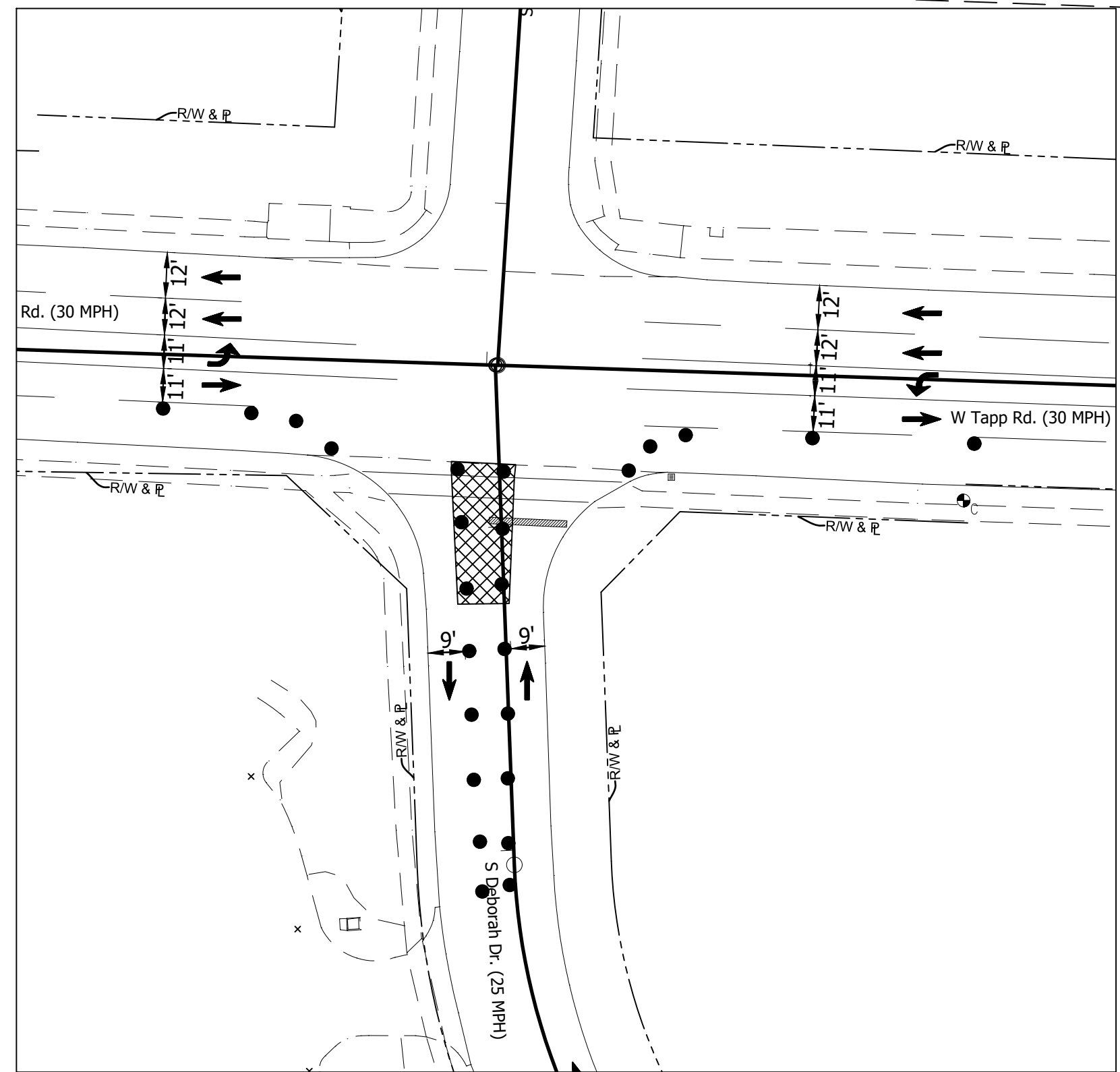
- NOTES**
- All Signs, Barricades, and Pavement Markings Shall Conform To The Latest Indiana Manual On Traffic Control Devices For Streets And Highways, And Any Current Revisions Thereto.
 - Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
 - Spacing of Channelizing Devices on Tangents Shall be 40' Unless Otherwise Noted.
 - Spacing of Channelizing Devices on Tapers Shall be 20' Unless Otherwise Noted.
 - Contractor to Allow Access for Emergency Vehicles at all Times.
 - Close and Construct Deborah Drive One Lane at a Time. Must Maintain Two-Way Traffic.
 - Escort Any Pedestrians Safely Through the Project Site.

CONSTRUCTION SIGN SCHEDULE	
ITEM	TOTALS
TYPE 'A' SIGN	
XG20-2a	3 EACH
XW2-6-A	2 EACH
XW20-1-A	3 EACH
TOTAL TYPE 'A' SIGN	8 EACH

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
XG20-2a	"END CONSTRUCTION" Sign	60 x 24
XW2-6-A	WORKSITE ADDED PENALTY SIGN	78 x 42
XW20-1-A	"ROAD CONSTRUCTION AHEAD" Sign	36 x 36



Detail 'B' Phase II B



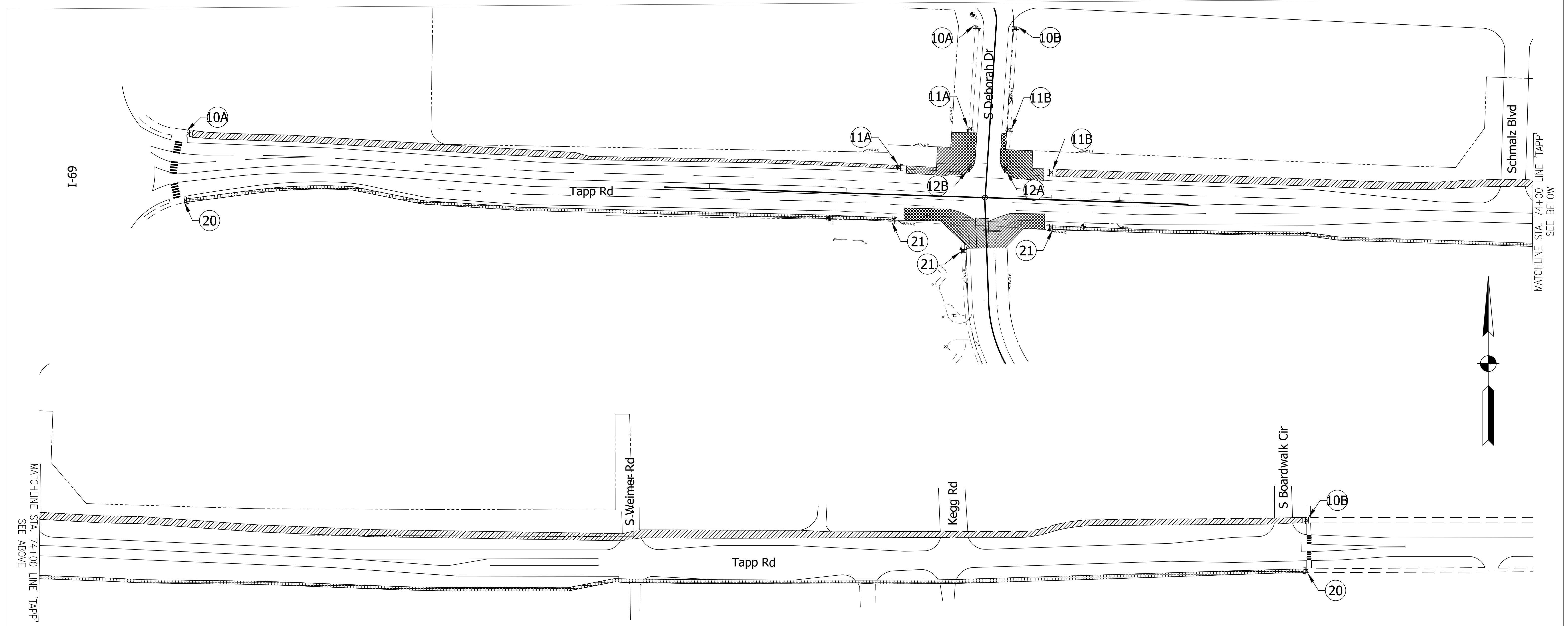
Detail 'C' Phase II C



RECOMMENDED FOR APPROVAL: *[Signature]*
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 DESIGNED: TAB DRAWN: TAB
 CHECKED: HAG CHECKED: FS

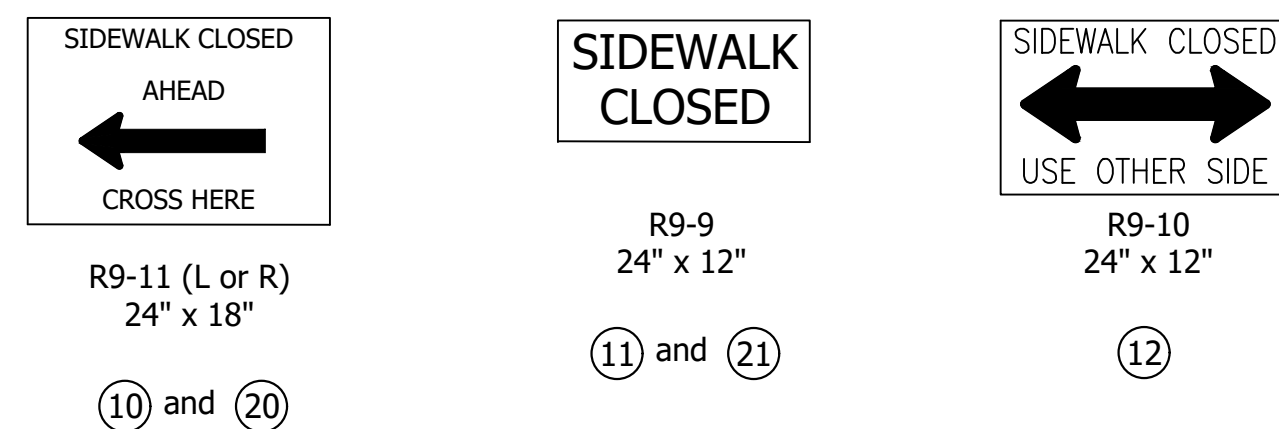
INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 PHASE II A, B, AND C

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	6 of 9
CONTRACT	PROJECT
---	---



PHASE SCHEME

Phase IA: Close the Northwest Curb Ramp to Construct Signal Strain Pole and Related Infrastructure.
 Phase IB: Close the Northeast Curb Ramp to Construct Signal Strain Pole.
 Phase II: Close and Construct Southwest and Southeast Curb Ramps along with Deborah Drive and Signal Strain Poles. Maintain Two-way Traffic on Deborah Drive at All Times. The Construction of These Curb Ramps and Deborah Drive Shall be Completed Within 14 Days.



CONSTRUCTION SIGNS, TYPE "B"

LEGEND

- 10A 10B Phase I: R9-11 "SIDEWALK CLOSED AHEAD, CROSS HERE" Sign
- 11A 11B Phase I: R9-9 "SIDEWALK CLOSED" Sign
- 12A 12B Phase I: R9-10 "SIDEWALK CLOSED USE OTHER SIDE" Sign
- 20 Phase II: R9-11 "SIDEWALK CLOSED AHEAD, CROSS HERE" Sign
- 21 Phase II: R9-9 "SIDEWALK CLOSED" Sign
- ☐ CONSTRUCTION SIGN
- ▬ TYPE III-B BARRICADE, 8 FT
- ▨ Phase I: Closed Sidewalk Area
- ▧ Phase II: Closed Sidewalk Area
- ▩ Area Under Construction

CONSTRUCTION SIGN SCHEDULE		
ITEM	TOTALS	TOTALS
	PHASE I	PHASE II
TYPE 'B' SIGN		
R9-9	4 EACH	3 EACH
R9-10	2 EACH	0 EACH
R9-11 (L or R)	4 EACH	2 EACH
TOTAL TYPE 'B' SIGN	10 EACH	5 EACH
TYPE III-B BARRICADE	80 LFT	40 LFT

NOTES

1. All Signs, Barricades, And Pavement Markings Shall Conform To The Latest Indiana Manual On Traffic Control Devices For Streets And Highways, And Any Current Revisions Thereto.
2. Contractor Shall Maintain Access To All Commercial And Private Properties During Construction.
3. Contractor to Allow Access for Emergency Vehicles at all Times.
4. Only One Curb Ramp To Be Closed At A Time.
6. In Phase II, Close and Construct Deborah Drive One Lane at a Time. Must Maintain Two-Way Traffic.
7. Escort Any Pedestrians Safely Through The Project Site.

SIGN LEGEND		
SIGN	DESCRIPTION	SIZE (in x in)
R9-9	"SIDEWALK CLOSED" sign	24 x 12
R9-10	"SIDEWALK CLOSED USE OTHER SIDE" Sign	24 x 12
R9-11	"SIDEWALK CLOSED AHEAD, CROSS HERE" sign	24 x 18

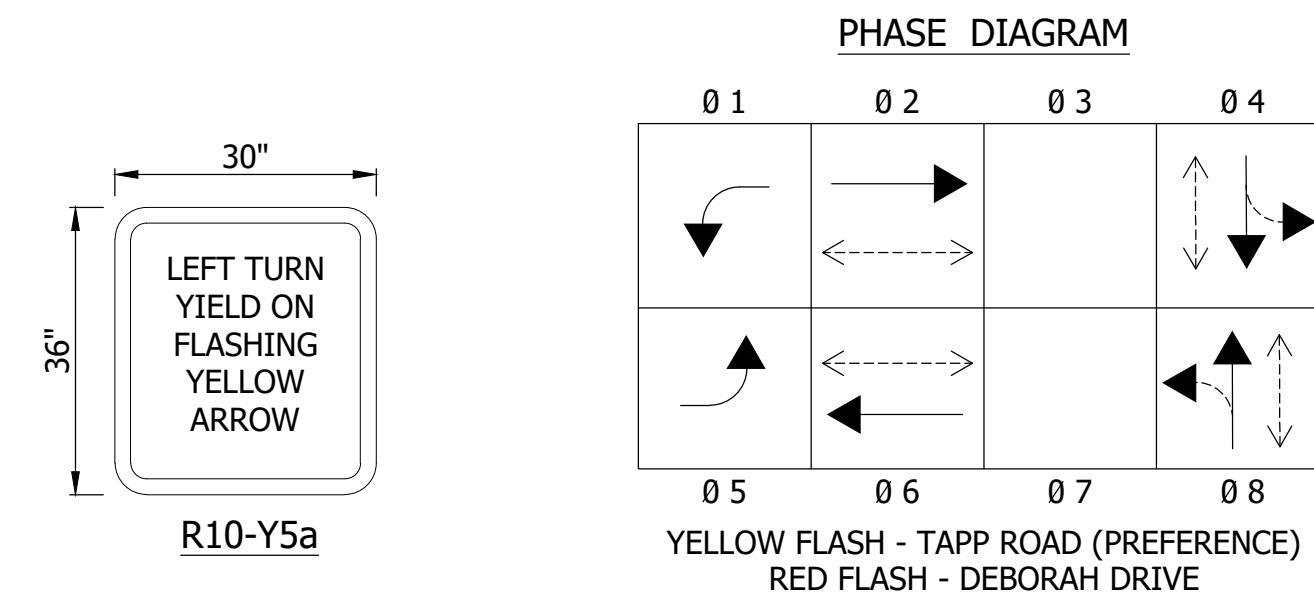
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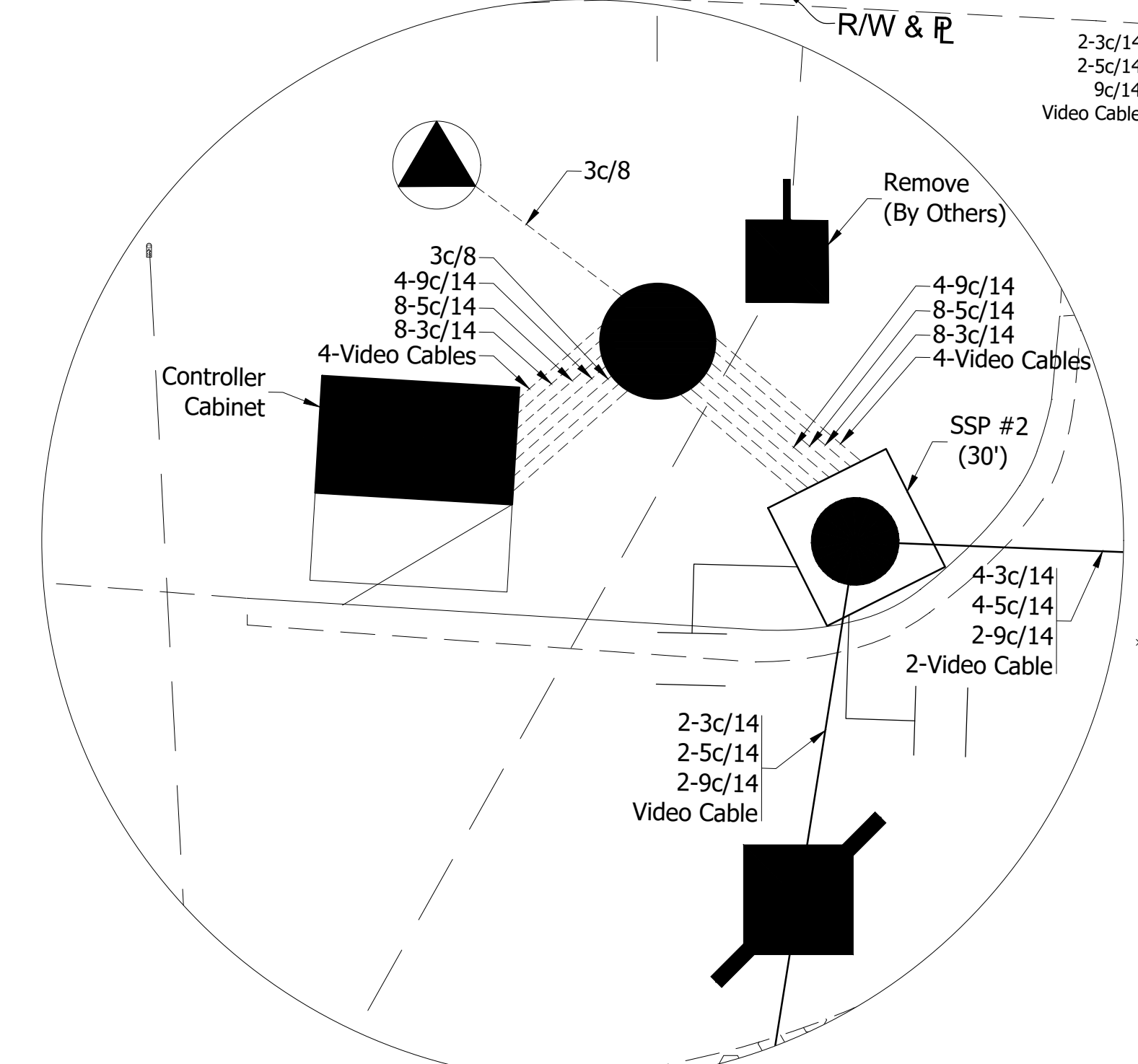
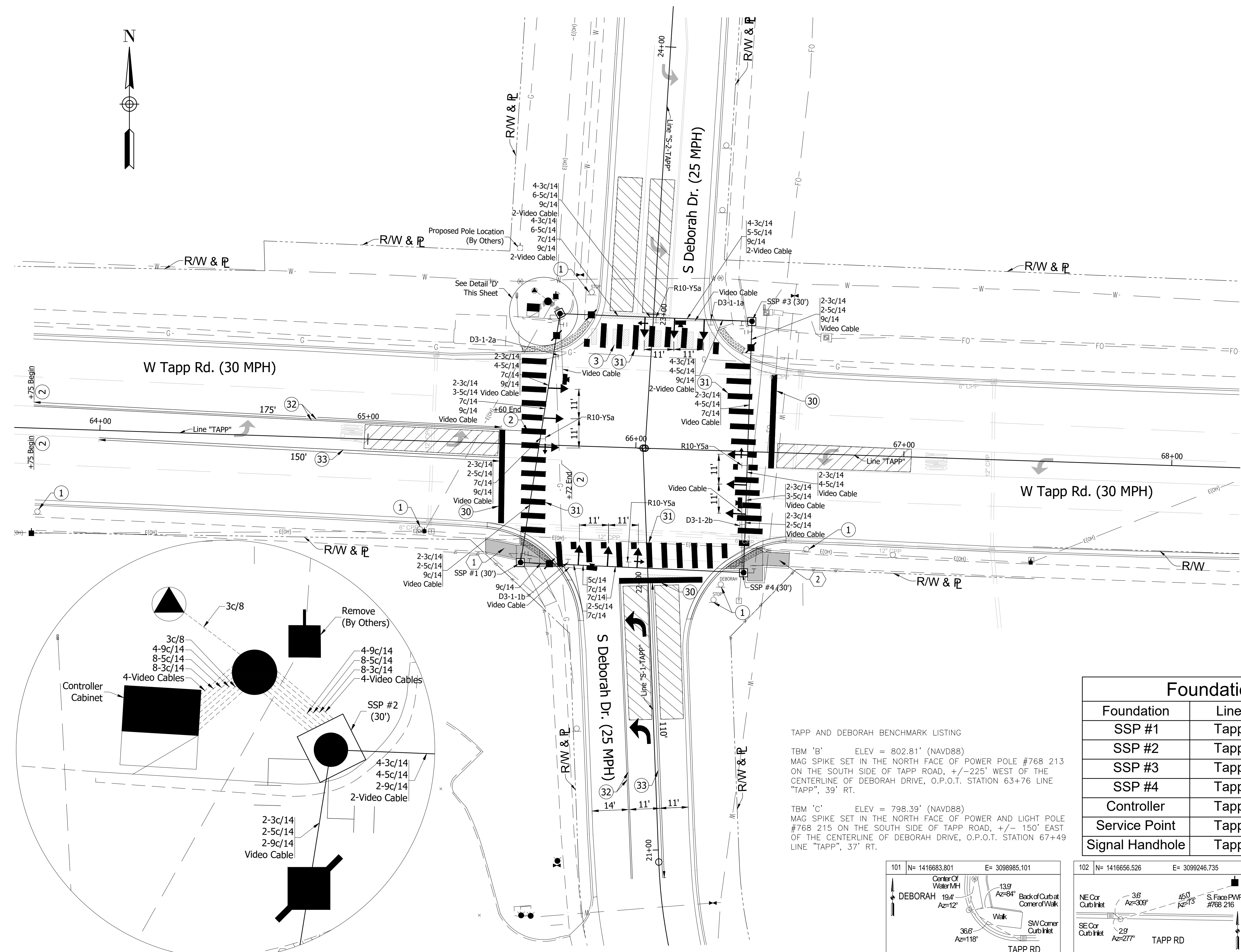
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 DESIGNED: TAB DRAWN: TAB
 CHECKED: HAG CHECKED: FS

INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC PEDESTRIAN MOT

HORIZONTAL SCALE	BRIDGE FILE
1" = 70'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	7 of 9
CONTRACT	PROJECT
---	---



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

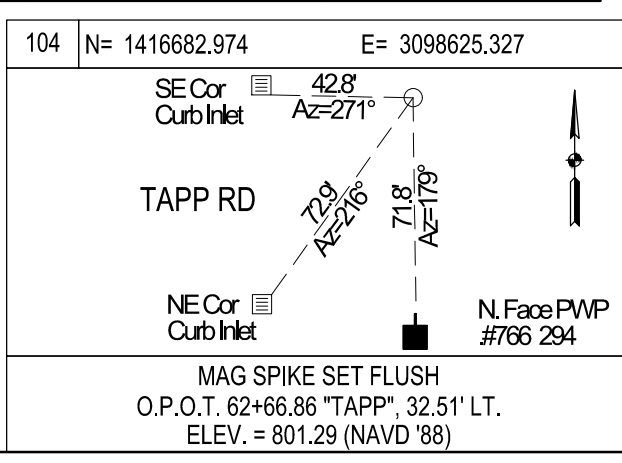
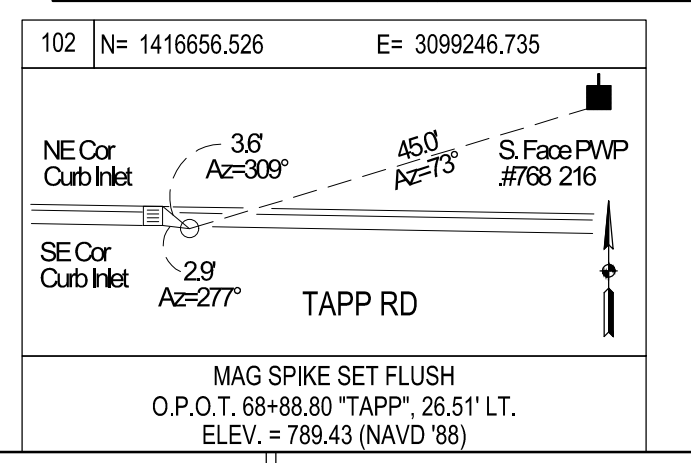
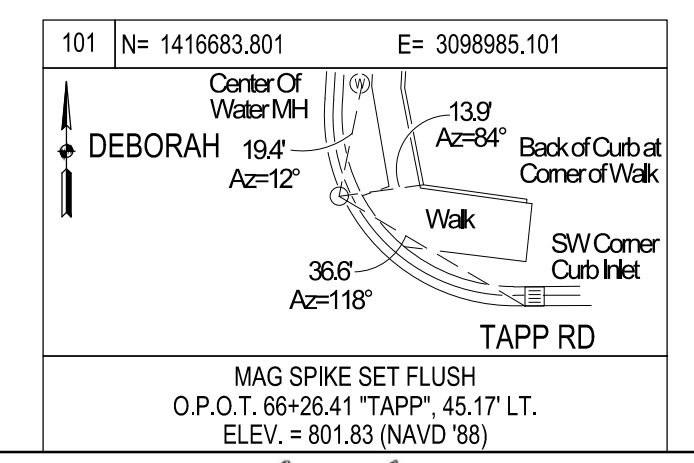
Foundation Schedule

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

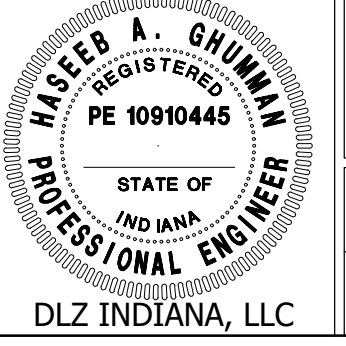
TBM 'B' ELEV = 802.81' (NAVD88)
MAG SPIKE SET IN THE NORTH FACE OF POWER POLE #768 213 ON THE SOUTH SIDE OF TAPP ROAD, +/- 225' WEST OF THE CENTERLINE OF DEBORAH DRIVE, O.P.O.T. STATION 63+76 LINE "TAPP", 39' RT.

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.



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

- 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: *Hasep Ghuman* DESIGN ENGINEER DATE: 05/14/2021

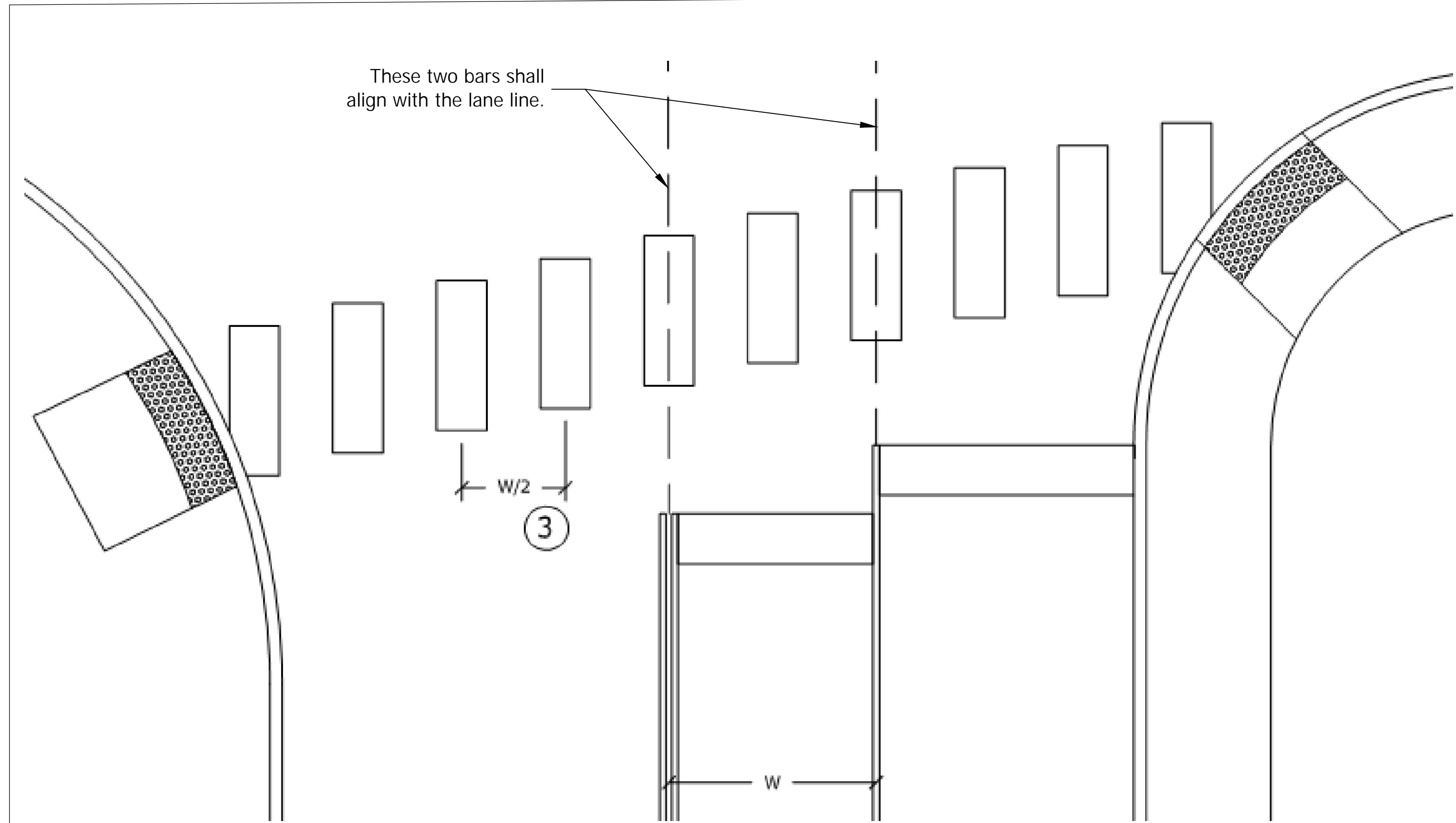
DESIGNED: TAB DRAWN: TAB

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
---	---



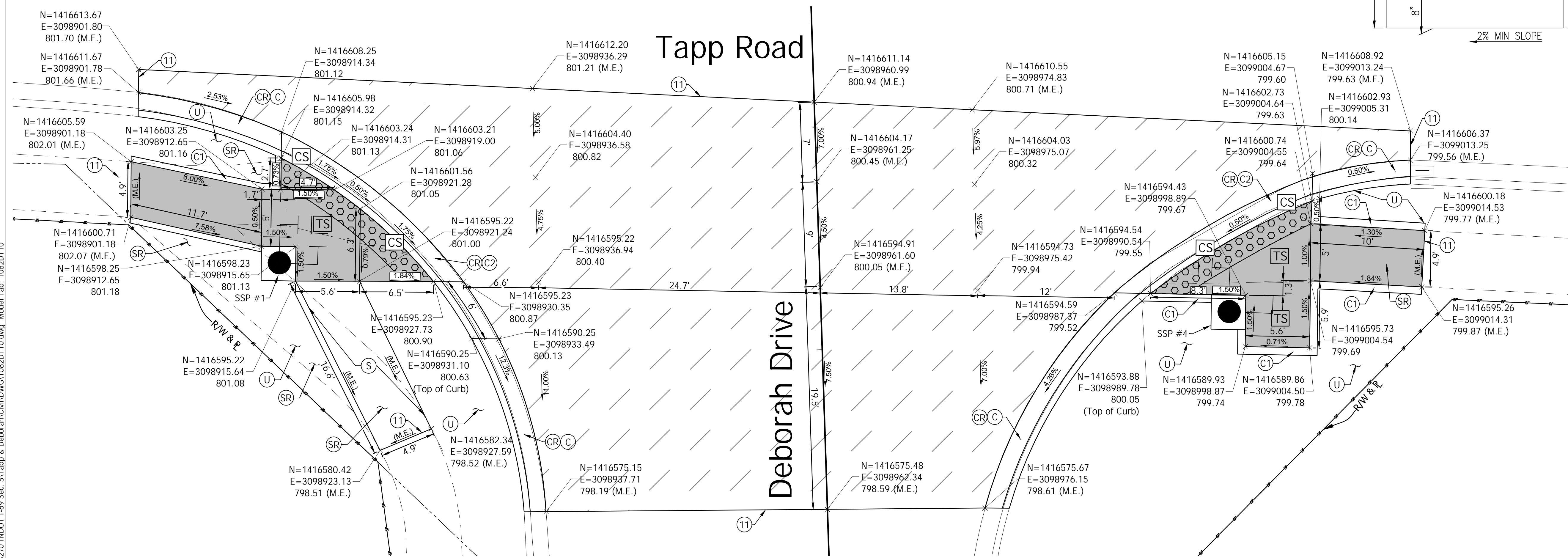
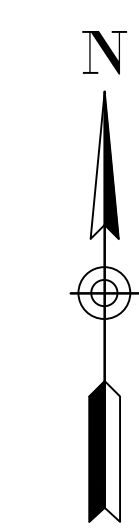
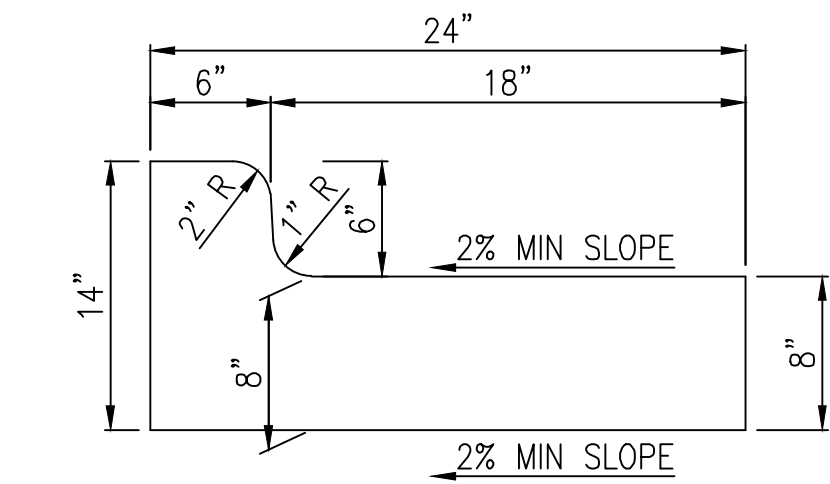
EROSION CONTROL TABLE														
STATION	LOCATION			SILT FENCE	SEDIMENT REMOVE	SEDIMENT BASIN	TEMPORARY, REVEMENT RIPRAP	TEMPORARY FILTER STONE	TEMPORARY SEED	TEMPORARY MULCH	NO 2 STONE	TEMPORARY GEOTEXTILE	INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT											
Line 'TAPP'														
63+43			X		1.5								1	
65+24	X				1.5								1	
65+24			X		1.5								1	
66+61	X				1.5								1	
66+58			X		1.5								1	
67+33	X				1.5								1	
67+34			X		1.5								1	
68+84	X				1.5								1	
68+86			X		1.5								1	
65+29 to 65+70			X	60										
66+38 to 66+82			X	60										
Southwest Corner			X						3	0.5				
Southeast Corner			X						2	0.5				
TOTAL COLUMN				120	14	0	0	0	5	1	0	0	9	

Crosswalk Marking Detail
Not to Scale

Curb and Gutter, Concrete Detail
Not to Scale

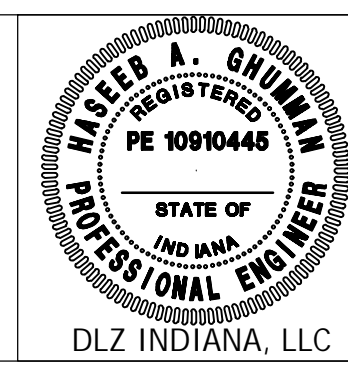
Notes:

1. Apply Markings Consistent with MUTCD.
2. Reference City of Bloomington Standard Drawings PM-6 and PM-3 for Other Details
3. Spacing to Remain Consistently at W/2 for Each Crossbar.



LEGEND	
(C)	Curb and Gutter, Concrete See Detail, This Sheet
(C1)	Curb, Concrete
(C2)	Curb and Gutter, Concrete, Depressed
(CR)	Curb and Gutter, Remove
(S)	Sidewalk, Concrete, 4" on 4" Compacted Aggregate, No. 53
(SR)	Sidewalk Concrete, Remove
(U)	Mulched Seeding, U
(11)	Sawcut
■	Steel Strain Pole
⊥	18" LED Pedestrian Signal Indication with Countdown Timer and APS Push Button and R10-3e Sign
—	Silt Fence
(CS)	Clear Space (4' X 4' Min.)
(TS)	Turning Space (4' X 4' Min.)
■	Pay Limits for Curb Ramp, Concrete
■	Detectable Warning Surfaces
■	HMA for Approaches, Consisting of: 165 lbs/syd HMA Surface, Type C, on 275 lbs/syd HMA Intermediate, Type C, on 660 lbs/syd HMA Base, Type C, on Subgrade Treatment Type II, on Geogrid, Type 1B

Date: May 14, 2021, 2:13pm
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RECOMMENDED FOR APPROVAL	<i>James A. Ghumal</i>	DESIGN ENGINEER	DATE
DESIGNED:	TAB	DRAWN:	TAB
CHECKED:	HAG	CHECKED:	HAG

INDIANA DEPARTMENT OF TRANSPORTATION

CURB RAMP DETAILS AND EROSION CONTROL TABLE

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	---
VERTICAL SCALE	DESIGNATION
---	---
SURVEY BOOK	SHEETS
---	9 of 9
CONTRACT	PROJECT
---	---