

UTILITIES

ELECTRIC American Electric Power Transmission Electric 700 Morrison Road Gahanna, OH 432320 (614) 552-1893 Contact: Barbara Dunlap	TELEPHONE/COMMUNICATIONS Level 3 Communications 1025 Eldorado Blvd. Broomfield, CO 80021 (720) 888-7280 Contact: Michael Karacson Sprint 400 W Grand Ave. Elmhurst, IL 90216 (847) 737-1869 Contact: Gerry Crain Rogers Telecom 4804 N 40th Street Sheboygan, WI 53083 (920) 395-7125 Contact: Vicki Moran Zayo Bandwidth 1710 Directors Row Ft Wayne, IN 46808 (260) 570-5677 Contact: Jason Gilpin	GAS & PIPELINE Qwest/CenturyLink 13057 S. Monitor Ave. Palos Heights, IL 60463 (708) 837-7927 Contact: Kevin Huff AT&T-Distribution 307 S. Main Street South Bend, IN 46601 (574) 237-8380 Contact: Dennis Bunch AT&T-Transmission 110 N. Main Street Culver, IN 46511 (574) 842-8830 Contact: Dean Norwich St. Joe Valley Metronet 121 S. Michigan Street South Bend, IN 46601 (574) 360-7812 Contact: Ben Hudson US Signal 7020 Southbelt Dr. SE Caledonia, MI 49315 (614) 483-6350 Contact: Rick Andricks
MCI/Verizon 730 W. Henry Street Indianapolis, IN 46225 (317) 685-8050 Contact: Chris Fowler Infinity Fiber/Union Station/GAP 5520 W 76th Street Indianapolis, IN 46268 (317) 777-7583 Contact: Keith Hamm Windstream Communications 30486 E 400 N Strawn, IL 61775 (309) 838-0788 Contact: Jeff Taylor Indiana Michigan Power-Distribution Electric 2929 Lathrop Street South Bend, IN 46628 (574) 236-1658 Contact: Antonio Macias	CABLE/TV Comcast 1920 McKinley Avenue Mishawaka, IN 46545 (847) 789-1039 ext. 71039 Contact: Jay Castello SANITARY SEWER/WATER City of South Bend-Sanitary 227 W. Jefferson Blvd. South Bend, IN 46601 (574) 235-9251 Contact: Tony Mulnar City of South Bend-Water 209 N. Main Street South Bend, IN 46601 (574) 235-5633 Contact: Ed Herman	

GENERAL NOTES	
**	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
	Contractor shall verify existing flowline elevations to set the appropriate sump depth.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX	
SHEET NO.	DRAWING INDEX
1	Title Sheet
2	Index and General Notes
3	Plan Index Location Maps
4	Witnesses and Benchmarks
5	Geometric Tie-Up Details
6-8	Maintenance of Traffic Details
9	Intersection Details - Main Street
10-11	Intersection Details - Michigan Street
12	Spot Elevation Details - Main Street
13	Spot Elevation Details - Michigan Street
14	Traffic Signal Detail - Main Street
15-16	Traffic Signal Details - Michigan Street
17-21	Pavement Marking & Signing Plans - Main Street
22-26	Pavement Marking & Signing Plans - Michigan Street
27	Erosion Control Table

REVISIONS		
SHEET NO.	DATE	REVISED
3-1,8-1,8-2,8-3,8-4,8-5, 8-6,16-1,27-1	1/15/2016	Added Sheets for Addition of Milling & Resurfacing of Pavement
2,8-27	1/15/2016	Revised Detail, Pavement Marking & Signs

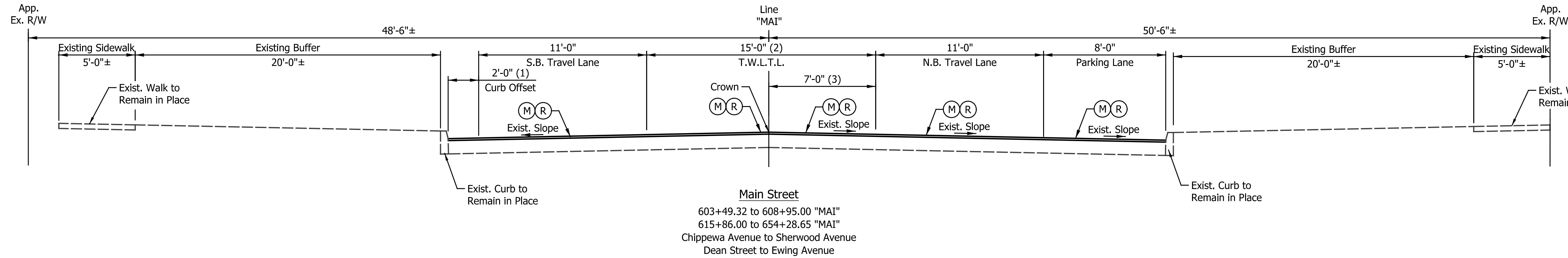
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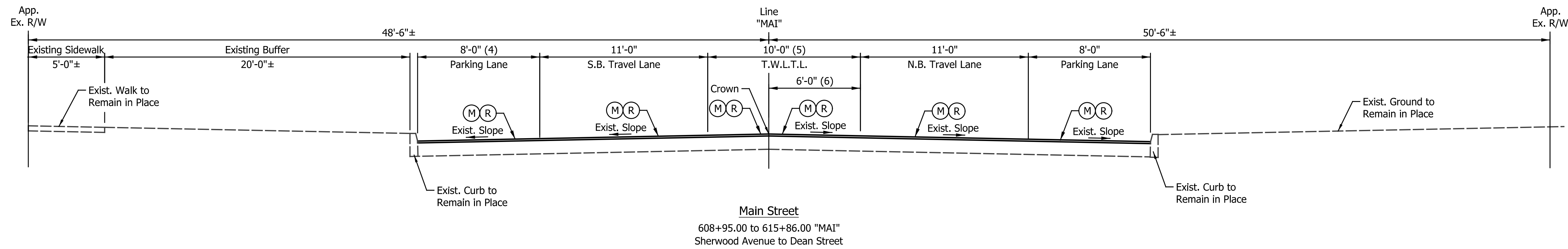
RECOMMENDED FOR APPROVAL	<i>Patrick Wooden</i>	1/7/2016
DESIGNED: _____	MRR	DRAWN: _____
		JRG
CHECKED: _____	PKW	CHECKED: _____
		PKW

CITY OF SOUTH BEND
INDEX AND GENERAL NOTES

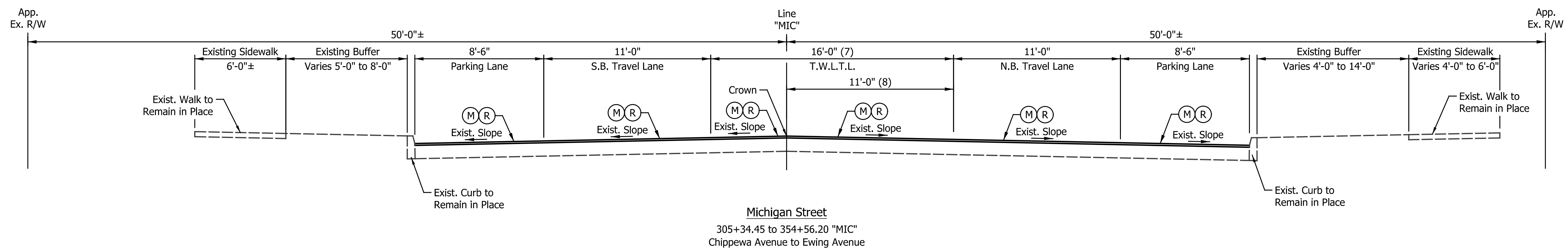
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VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	2 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)



- (1) Varies 2'-0" to 3'-0" from 608+20.00 to 608+95.00 "MAI"
- (2) Equals 11'-0" from 615+86.00 to 654+28.65 "MAI"
- (3) Equals 2'-0" from 615+86.00 to 654+28.65 "MAI"



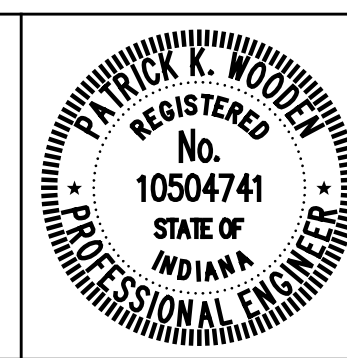
- (4) Varies 8'-0" to 2'-0" from 613+78.00 to 615+86.00 "MAI"
- (5) Varies 10'-0" to 11'-0" from 613+78.00 to 615+86.00 "MAI"
- (6) Varies 6'-0" to 2'-0" from 613+78.00 to 615+86.00 "MAI"



- (7) Varies 16'-0" to 13'-0" from 313+51.00 to 316+07.00 "MIC"
Equals 13'-0" from 316+07.00 to 354+56.20 "MIC"
- (8) Varies 11'-0" to 7'-0" from 313+51.00 to 316+07.00 "MIC"
Equals 7'-0" from 316+07.00 to 354+56.20 "MIC"

- LEGEND**
- (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm

DATE	REVISION
1/15/2016	REV 1: Added Sheet

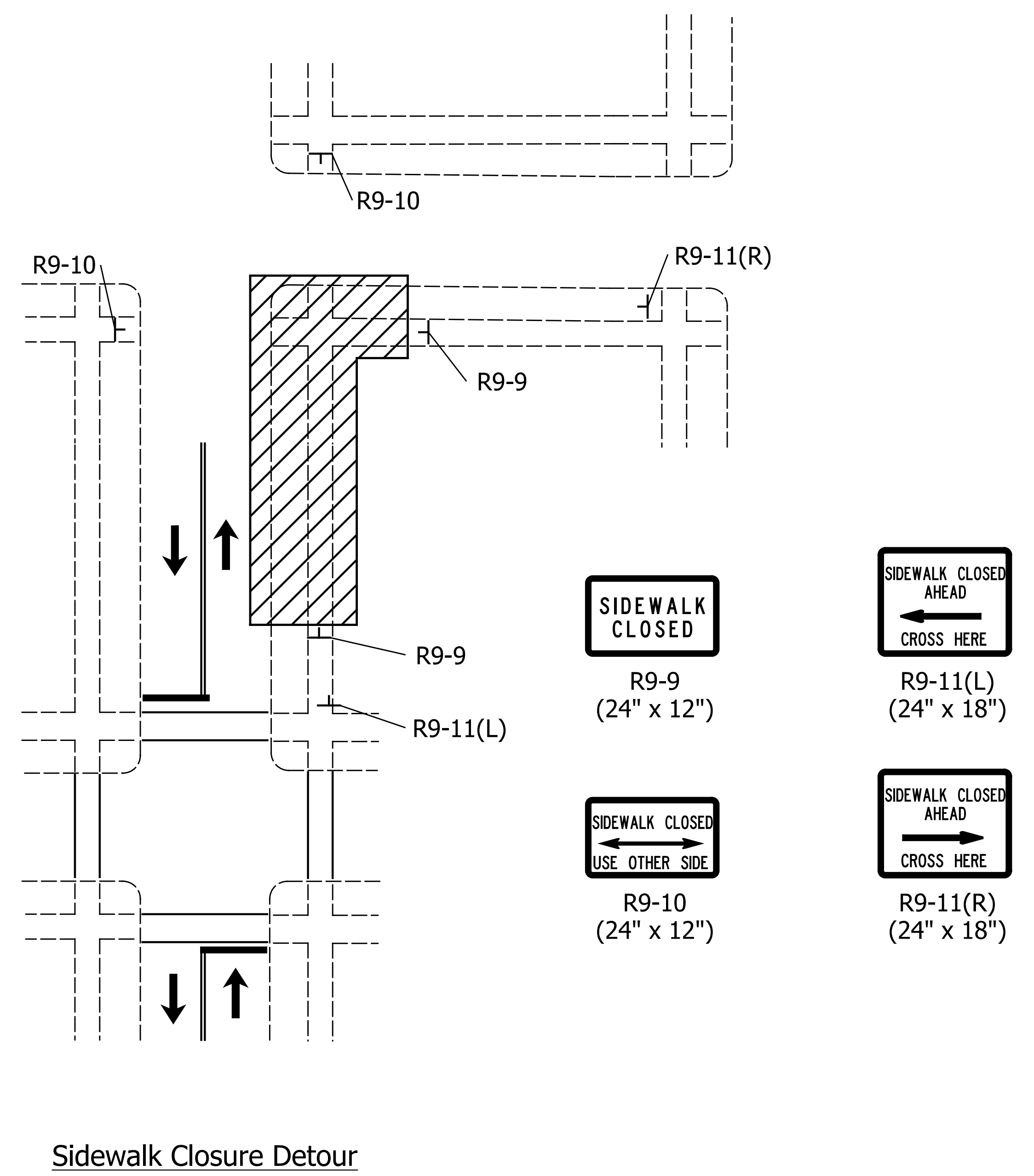
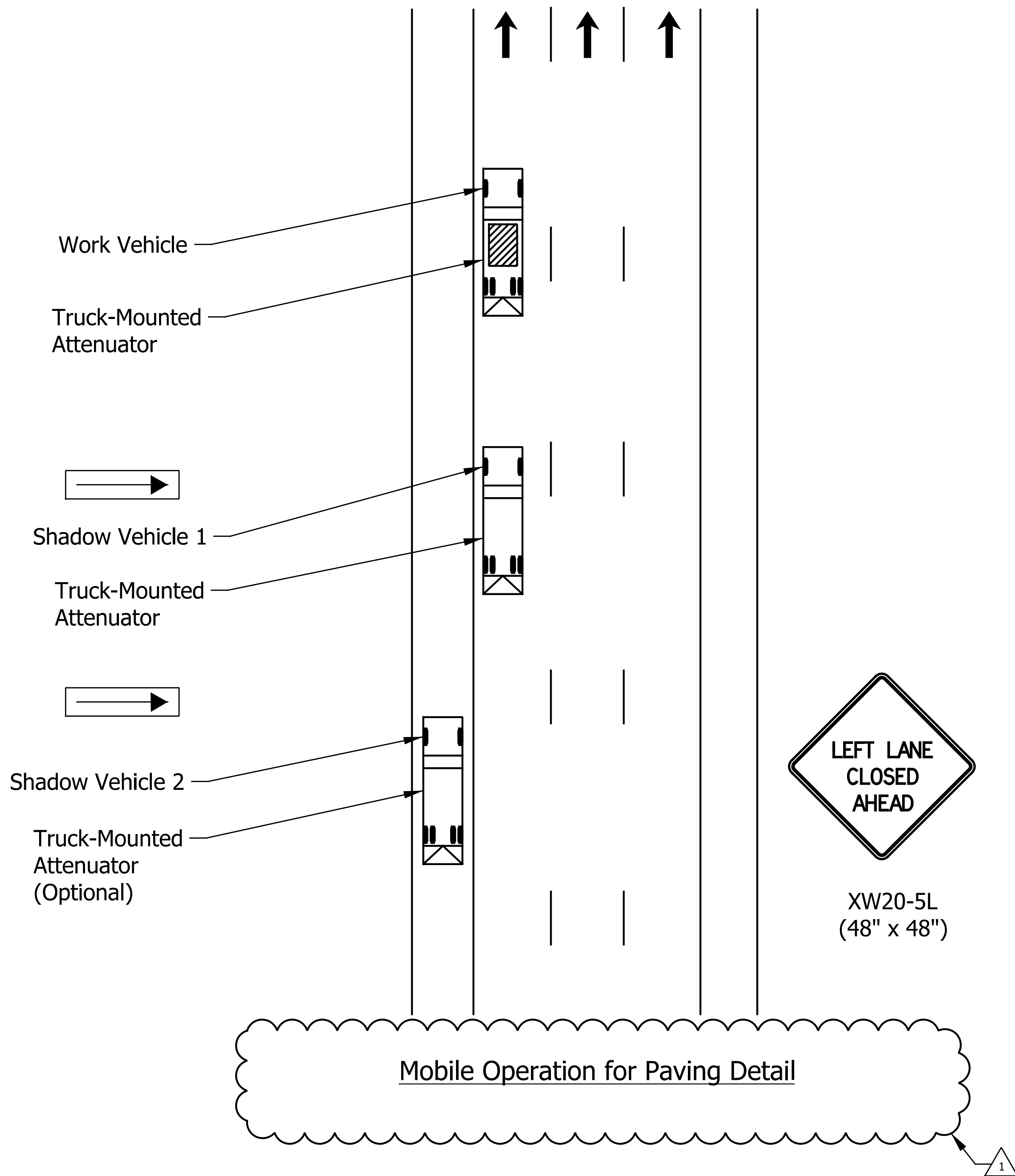


RECOMMENDED FOR APPROVAL	<i>Patrick Woodson</i>	DESIGN ENGINEER	1/15/2016	DATE
DESIGNED:	MRR	DRAWN:	MRR	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND	
TYPICAL CROSS SECTIONS MAIN AND MICHIGAN STREETS	

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	3-1 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

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DATE	REVISION
1/15/2016	Revised Detail Label

RECOMMENDED FOR APPROVAL: *Patrick Woodley* DESIGN ENGINEER DATE: 1/7/2016

DESIGNED: MRR DRAWN: JRG

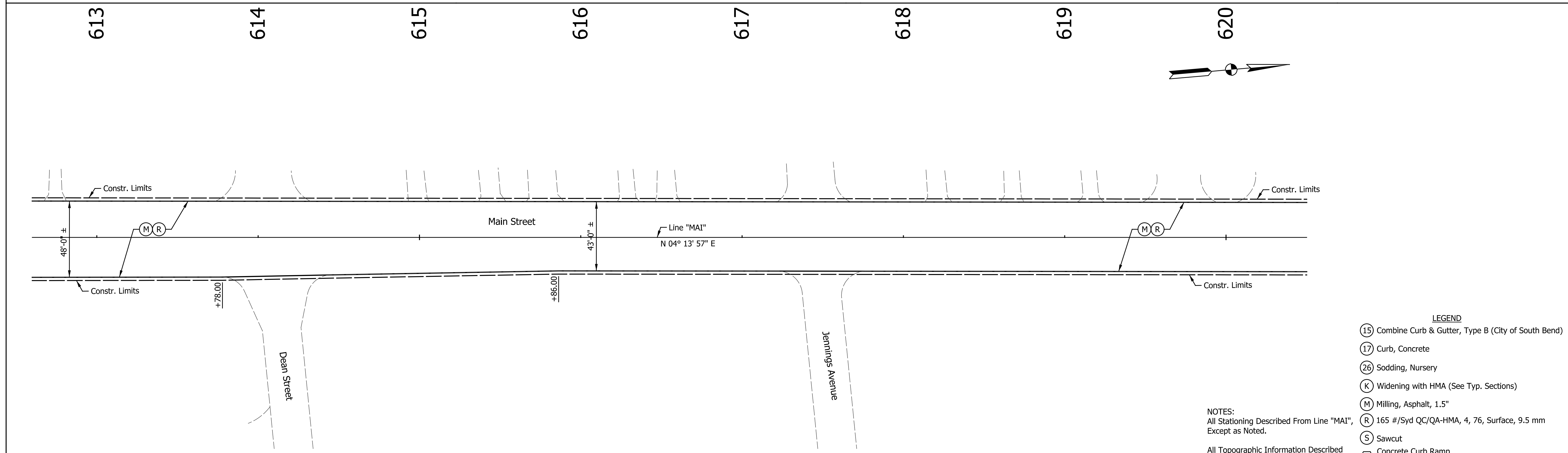
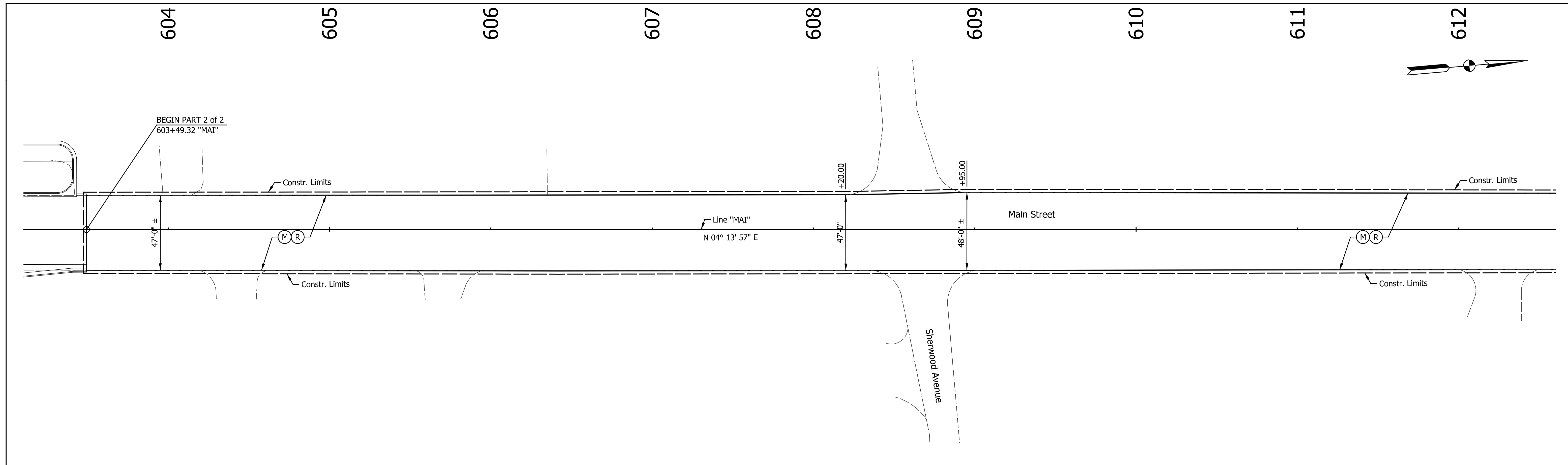
CHECKED: PKW CHECKED: PKW

CITY OF SOUTH BEND

MAINTENANCE OF TRAFFIC DETAILS
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

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- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (K) Widening with HMA (See Typ. Sections)
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
- NOTES:**
 All Stationing Described From Line "MAI", Except as Noted.
 All Topographic Information Described From Line "MAI", Except as Noted.

DATE	REVISION
1/15/2016	Added Sheet

REGISTERED PROFESSIONAL ENGINEER
 No. 10504741
 STATE OF INDIANA

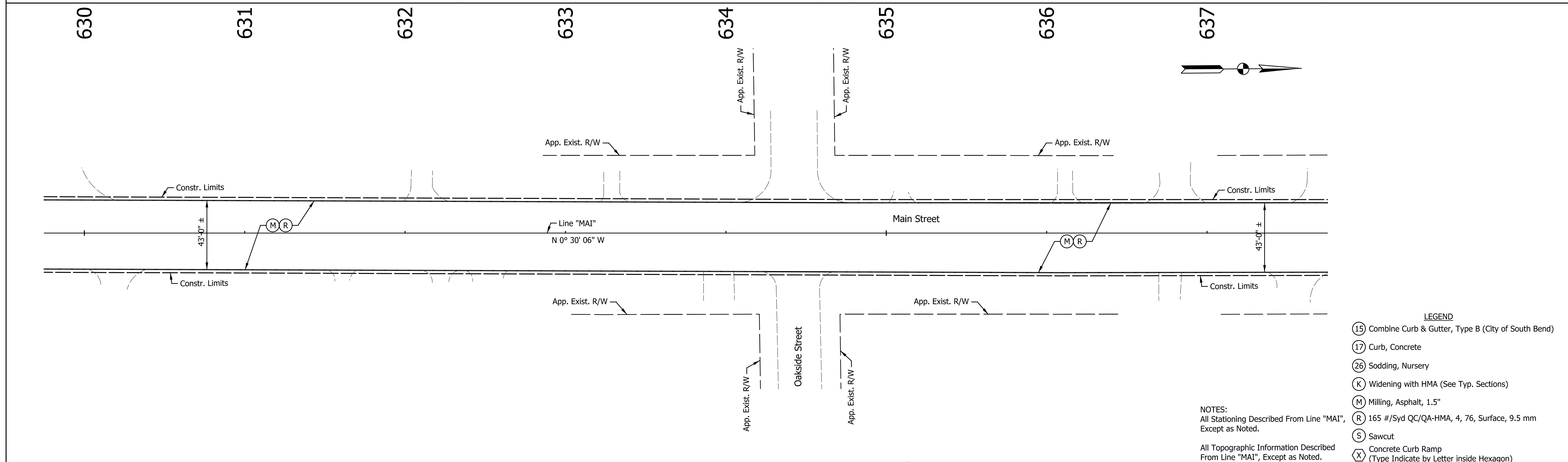
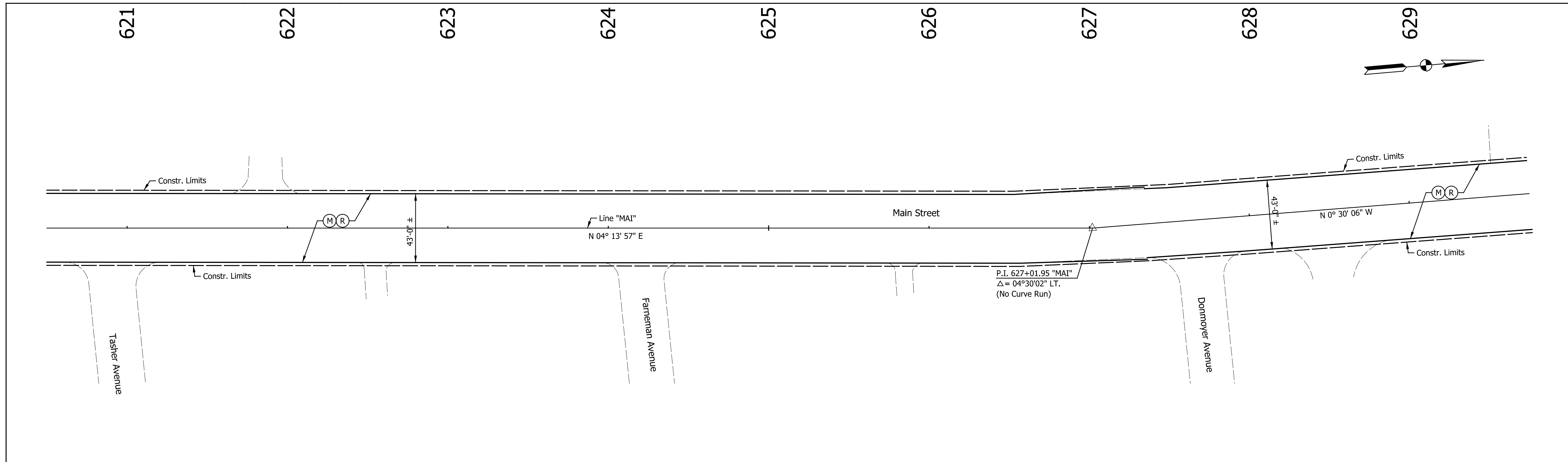
RECOMMENDED FOR APPROVAL	<i>Patrick Wooden</i> DESIGN ENGINEER	1/15/2016 DATE
DESIGNED:	MRR	DRAWN:
		JRG
CHECKED:	PKW	CHECKED:
		PKW

CITY OF SOUTH BEND

PLAN - LINE "MAI"
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8-1 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

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- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (K) Widening with HMA (See Typ. Sections)
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
- NOTES:**
 All Stationing Described From Line "MAI", Except as Noted.
 All Topographic Information Described From Line "MAI", Except as Noted.

DATE	REVISION
1/15/2016	Added Sheet

REGISTERED PROFESSIONAL ENGINEER
 No. 10504741
 STATE OF INDIANA

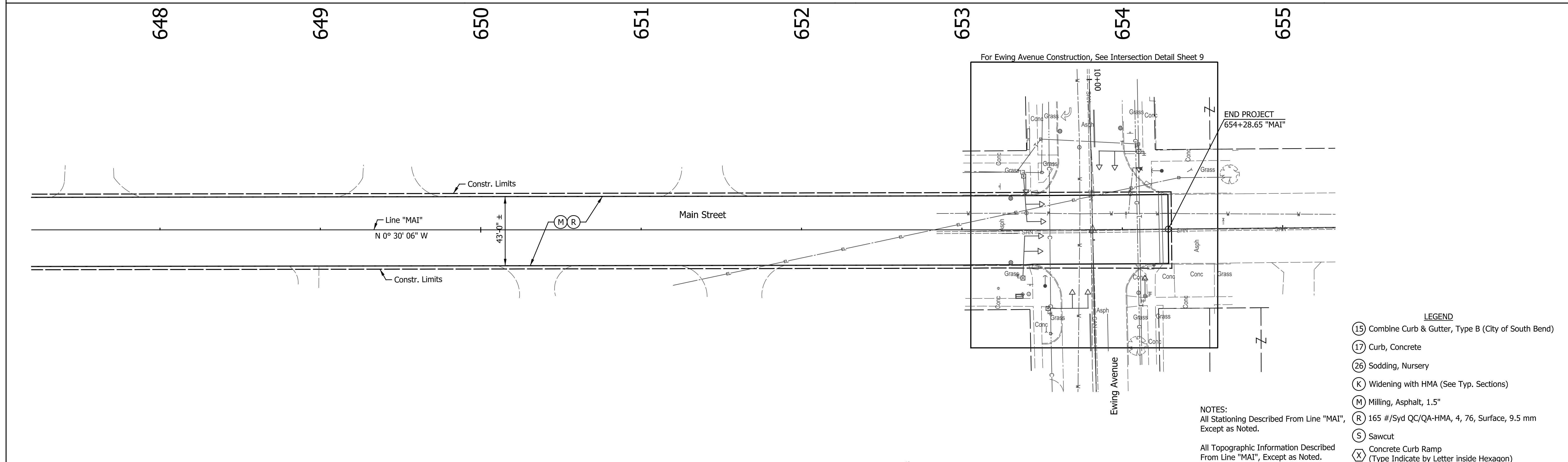
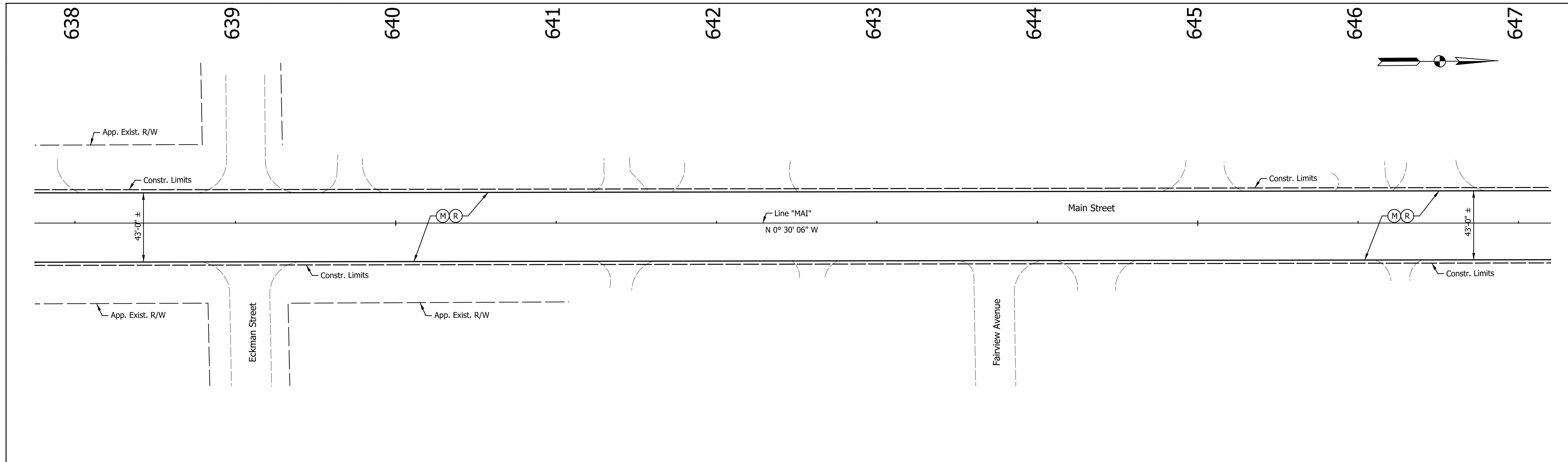
RECOMMENDED FOR APPROVAL	<i>Patrick Warden</i>	DESIGN ENGINEER	1/15/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND

PLAN - LINE "MAI"
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8-2 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

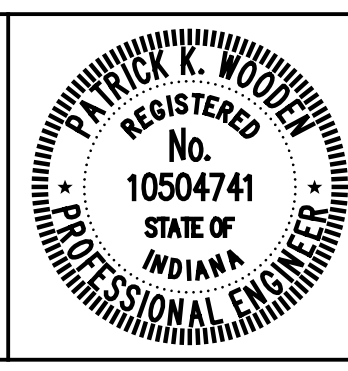
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- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (K) Widening with HMA (See Typ. Sections)
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)

NOTES:
 All Stationing Described From Line "MAI", Except as Noted.
 All Topographic Information Described From Line "MAI", Except as Noted.

DATE	REVISION
1/15/2016	Added Sheet



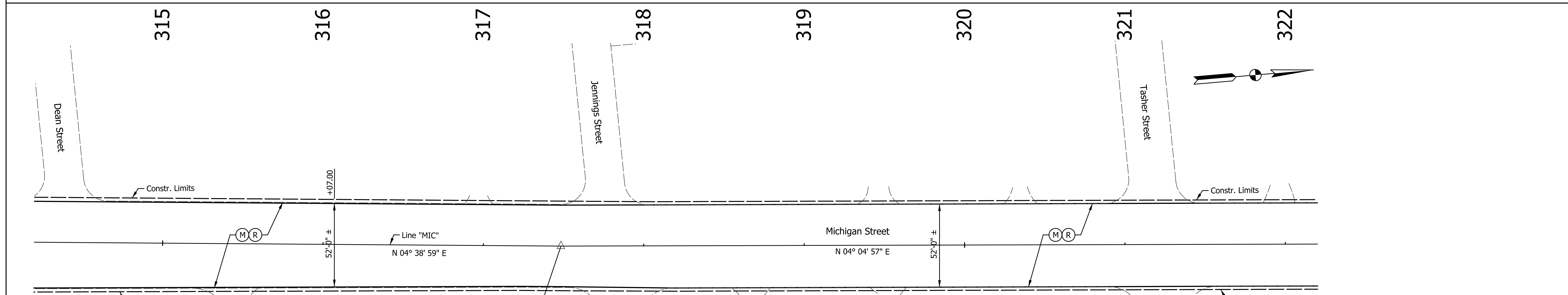
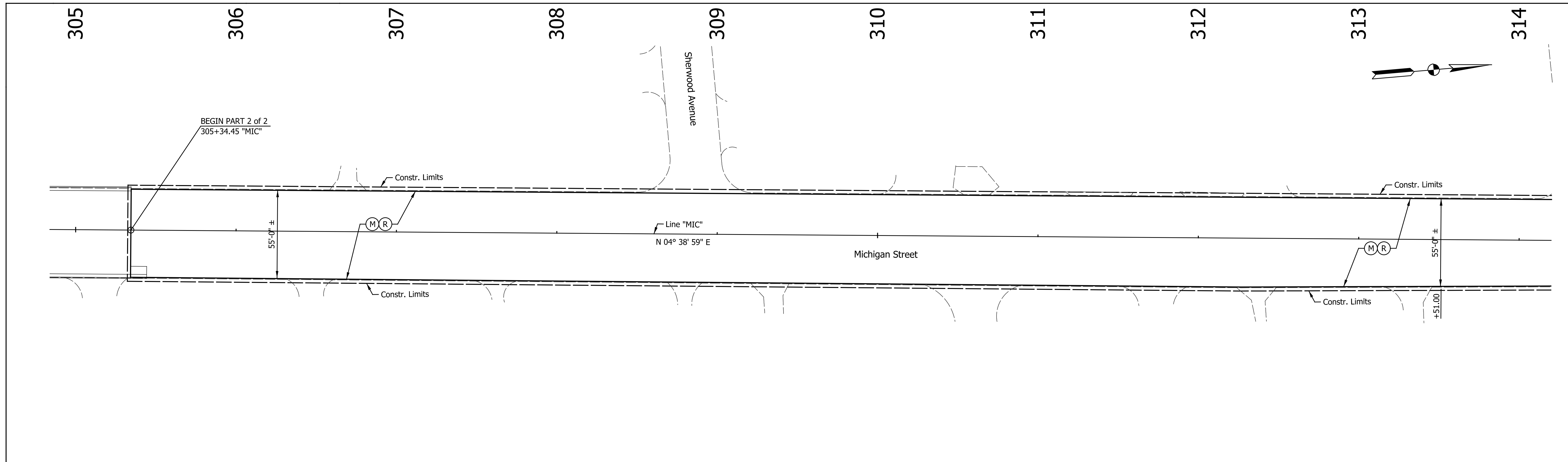
RECOMMENDED FOR APPROVAL	<i>Patrick Woodley</i>	DESIGN ENGINEER	DATE
DESIGNED:	MRR	DRAWN:	JRG
CHECKED:	PKW	CHECKED:	PKW

CITY OF SOUTH BEND

PLAN - LINE "MAI"
 MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8-3 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

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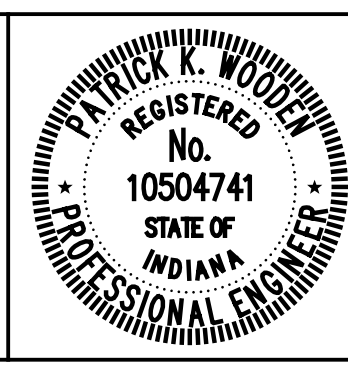


P.I. 317+48.33 "MIC"
 $\Delta = 00^\circ 34' 02''$ LT.
 (No Curve Run)

NOTES:
 All Stationing Described From Line "MIC",
 Except as Noted.
 All Topographic Information Described
 From Line "MIC", Except as Noted.

- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (K) Widening with HMA (See Typ. Sections)
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)

DATE	REVISION
1/15/2016	Added Sheet



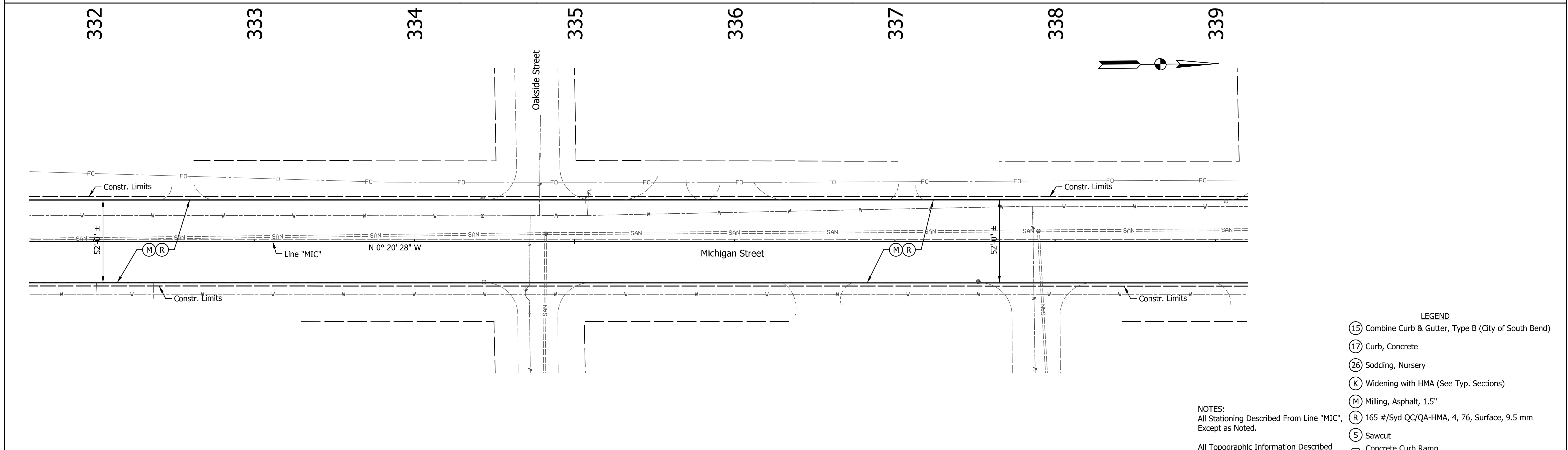
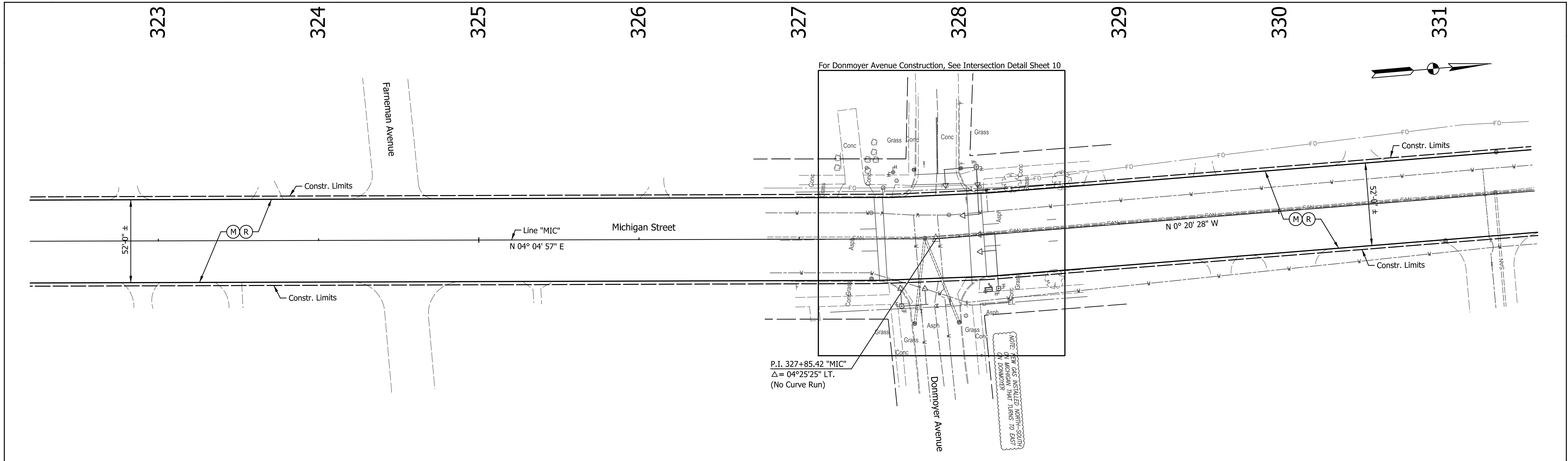
RECOMMENDED FOR APPROVAL	<i>Patrick Woodley</i>	DESIGN ENGINEER	1/15/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND

PLAN - LINE "MAI"
 MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8-4 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

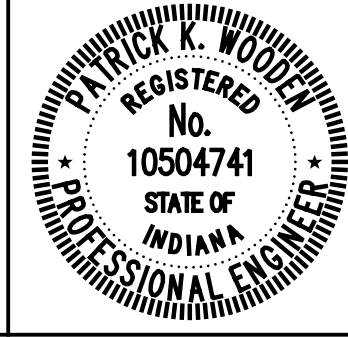
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 201401351_South.dwg



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (K) Widening with HMA (See Typ. Sections)
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)

NOTES:
 All Stationing Described From Line "MIC",
 Except as Noted.
 All Topographic Information Described
 From Line "MIC", Except as Noted.

DATE	REVISION
1/15/2016	Added Sheet

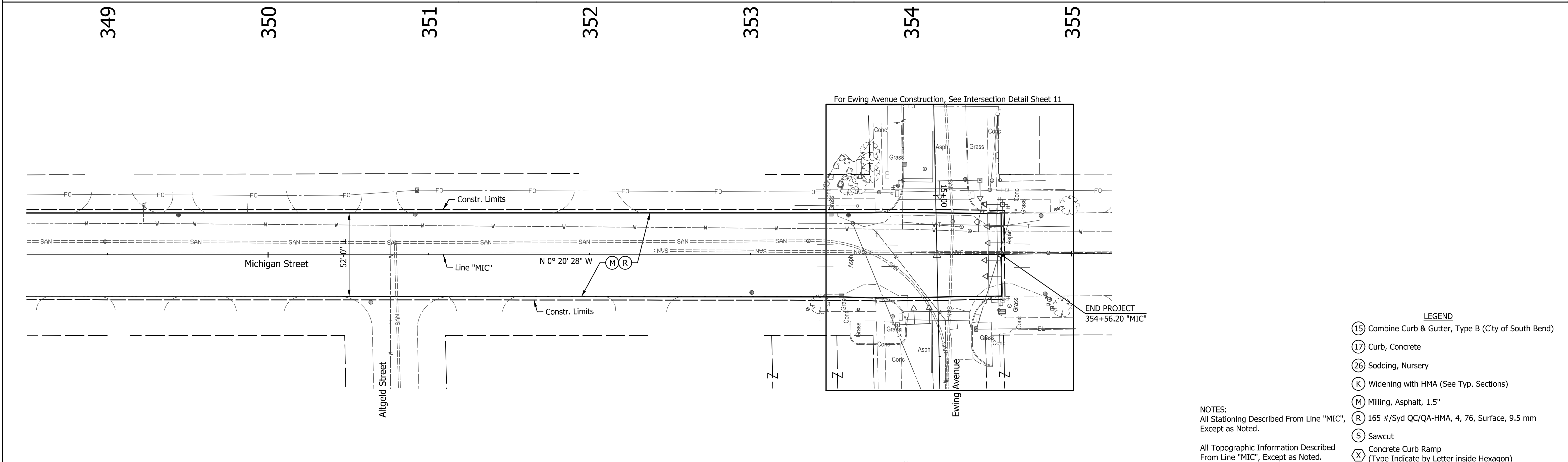
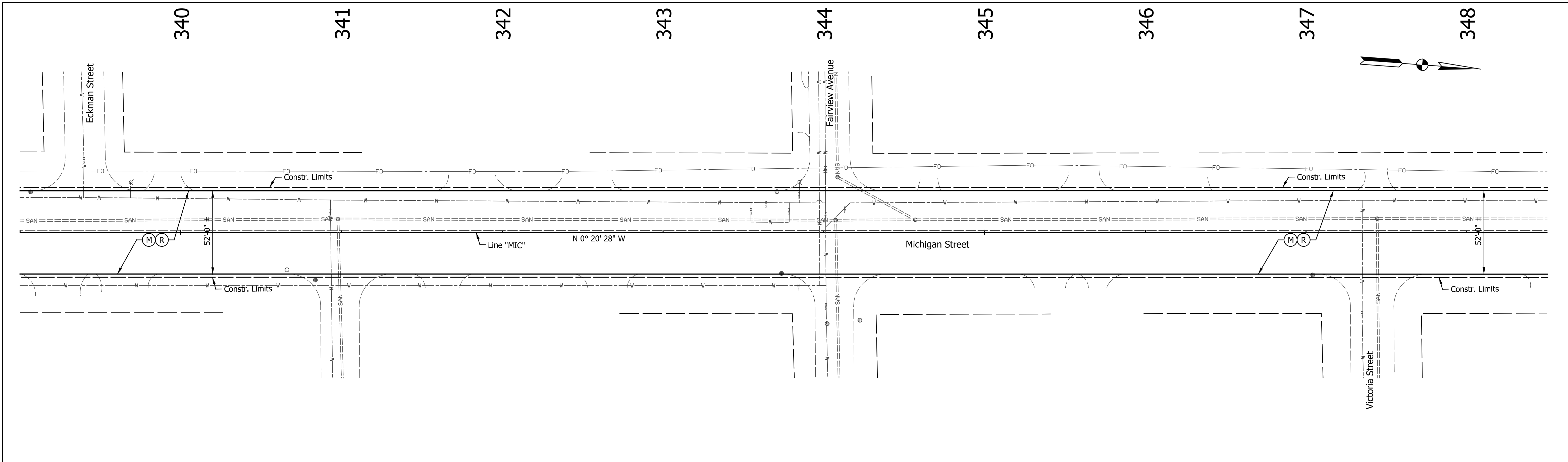


RECOMMENDED FOR APPROVAL	<i>Patrick Woodley</i>	DESIGN ENGINEER	1/15/2016	DATE
DESIGNED:	MRR	DRAWN:	JRG	
CHECKED:	PKW	CHECKED:	PKW	

CITY OF SOUTH BEND
PLAN - LINE "MAI"
MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8-5 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

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- LEGEND
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding, Nursery
 - (K) Widening with HMA (See Typ. Sections)
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp (Type Indicate by Letter inside Hexagon)
- NOTES:
 All Stationing Described From Line "MIC", Except as Noted.
 All Topographic Information Described From Line "MIC", Except as Noted.

DATE	REVISION
1/15/2016	Added Sheet



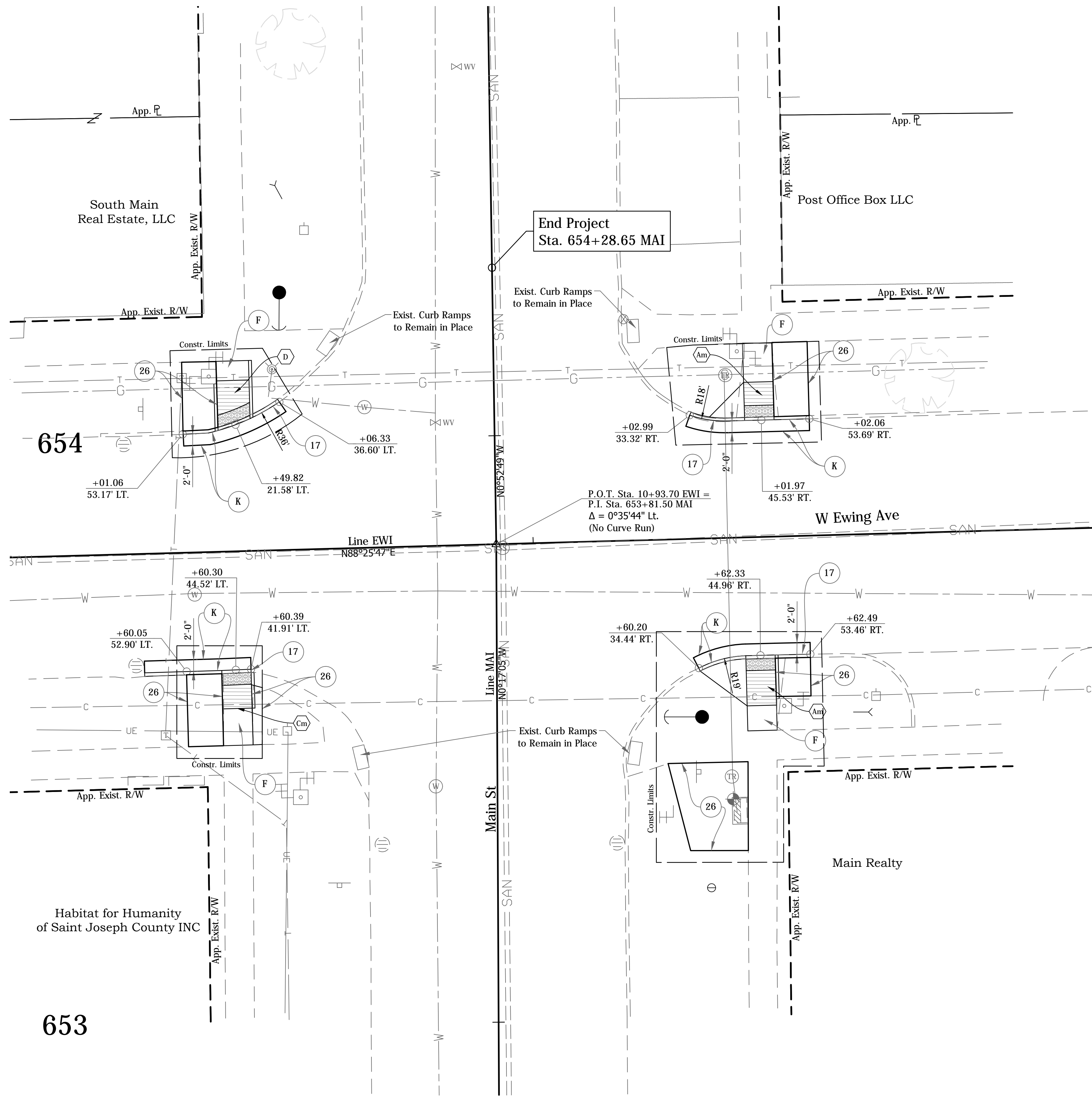
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DESIGNED:	MRR	DRAWN:	JRG
CHECKED:	PKW	CHECKED:	PKW

CITY OF SOUTH BEND

PLAN - LINE "MAI"
MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	8-6 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

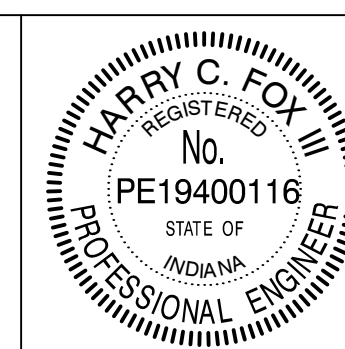
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- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding
 - (F) Concrete, Sidewalk, 4"
 - (K) Widening with HMA, Type "D"
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp
(Type Indicate by Letter inside Hexagon)
 - (Xm) Modified Concrete Curb Ramp
(Type Indicate by Letter inside Hexagon)

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DATE	REVISION
1/15/2016	Rev 1: Revise Legend

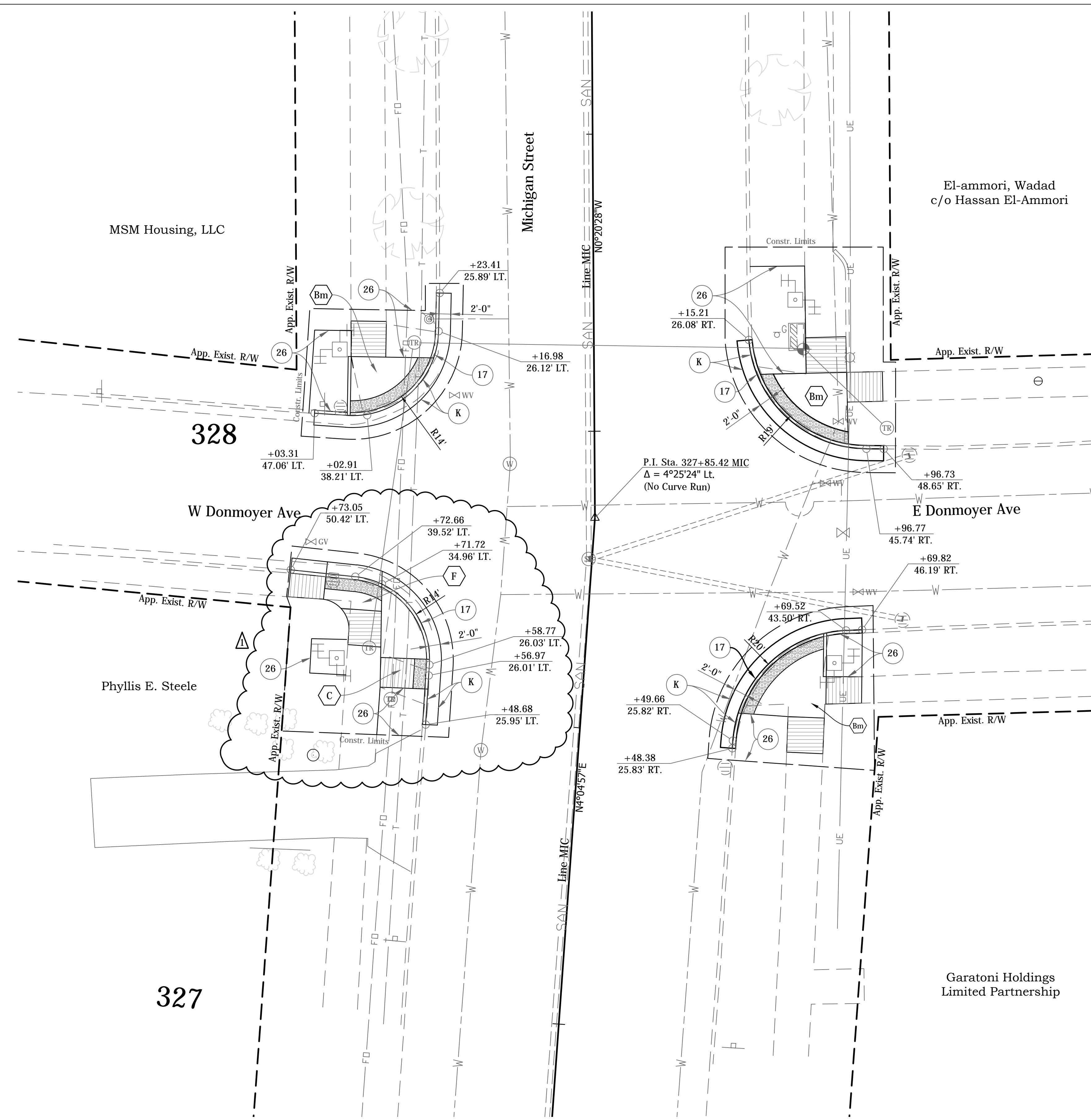
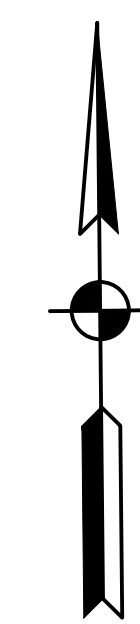


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

**INTERSECTION DETAILS
MAIN ST. AT EWING AVE.**

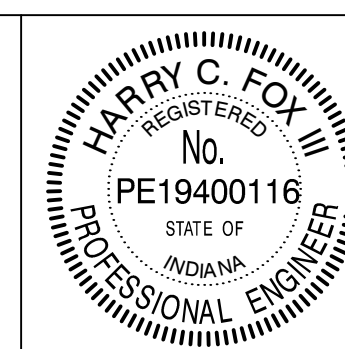
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1"=10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	9 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding
 - (K) Widening with HMA, Type D
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp
(Type Indicate by Letter inside Hexagon)
 - (Xm) Modified Concrete Curb Ramp
(Type Indicate by Letter inside Hexagon)

DIRECTORY: F:\2015\15-3229 South Bend 2 Way Conversion\DRAWINGS\CONST DETY
 FILE:3229 CH MICHIGAN ST.dwg
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 PLOTTED BY: JBR
 DATE: 1/15/2016 3:59pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & S.W. Ramp

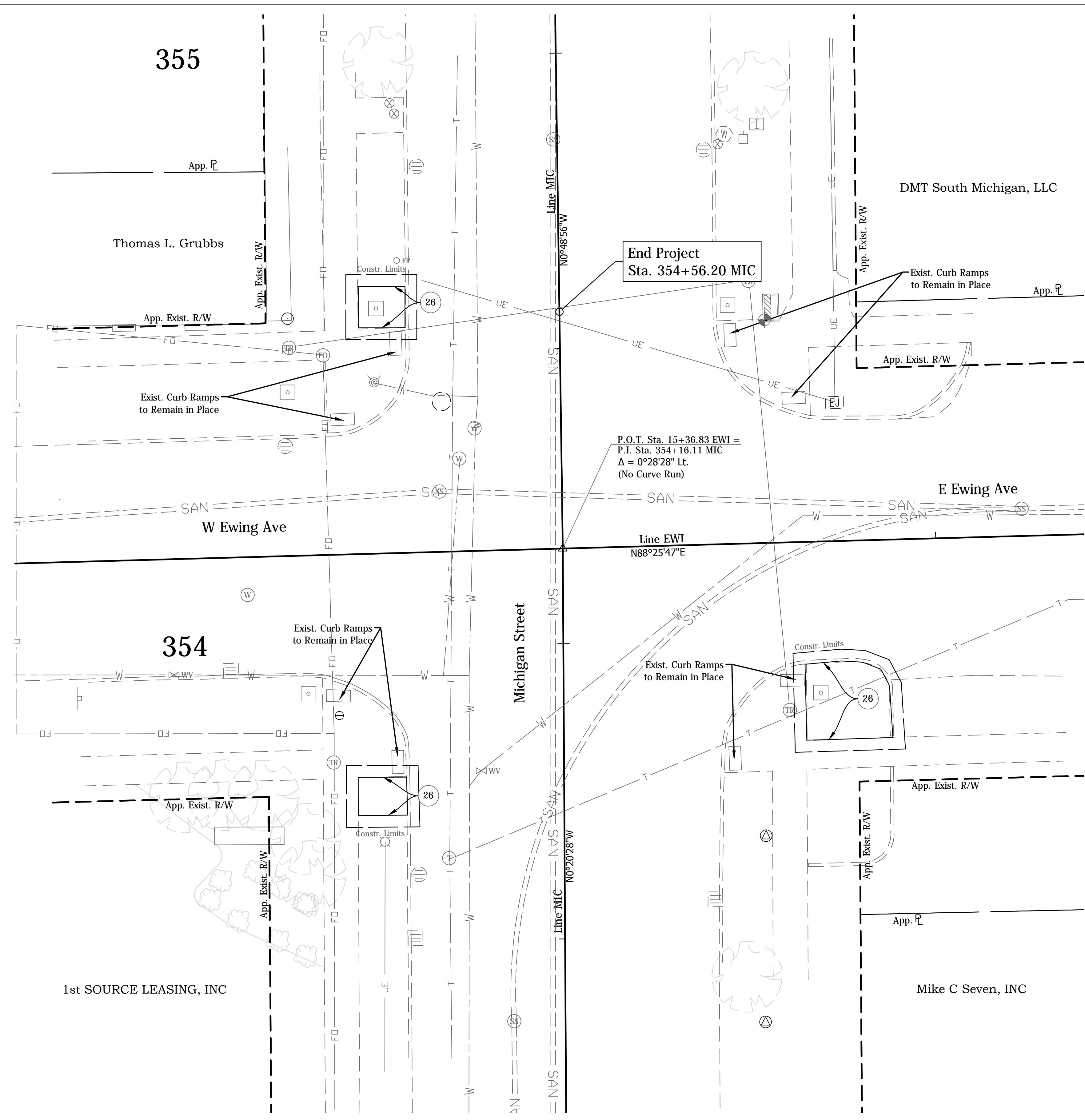
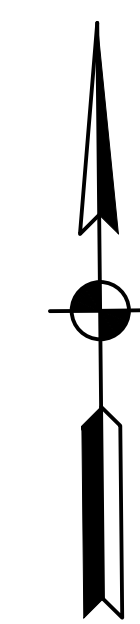


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

INTERSECTION DETAILS
MICHIGAN ST. AT DONMEYER AVE.

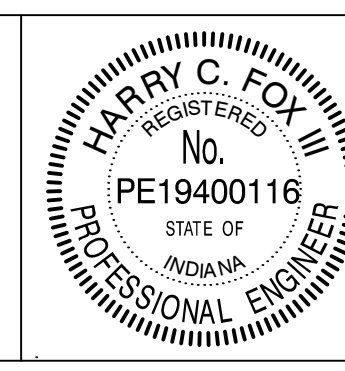
HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	10 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)



- LEGEND**
- (15) Combine Curb & Gutter, Type B (City of South Bend)
 - (17) Curb, Concrete
 - (26) Sodding
 - (K) Widening with HMA, Type "D"
 - (M) Milling, Asphalt, 1.5"
 - (R) 165 #/Syd QC/QA-HMA, 4, 76, Surface, 9.5 mm
 - (S) Sawcut
 - (X) Concrete Curb Ramp
(Type Indicate by Letter inside Hexagon)

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 PLOTTED BY: hbrun... DATE: 01/15/2016 4:40pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend

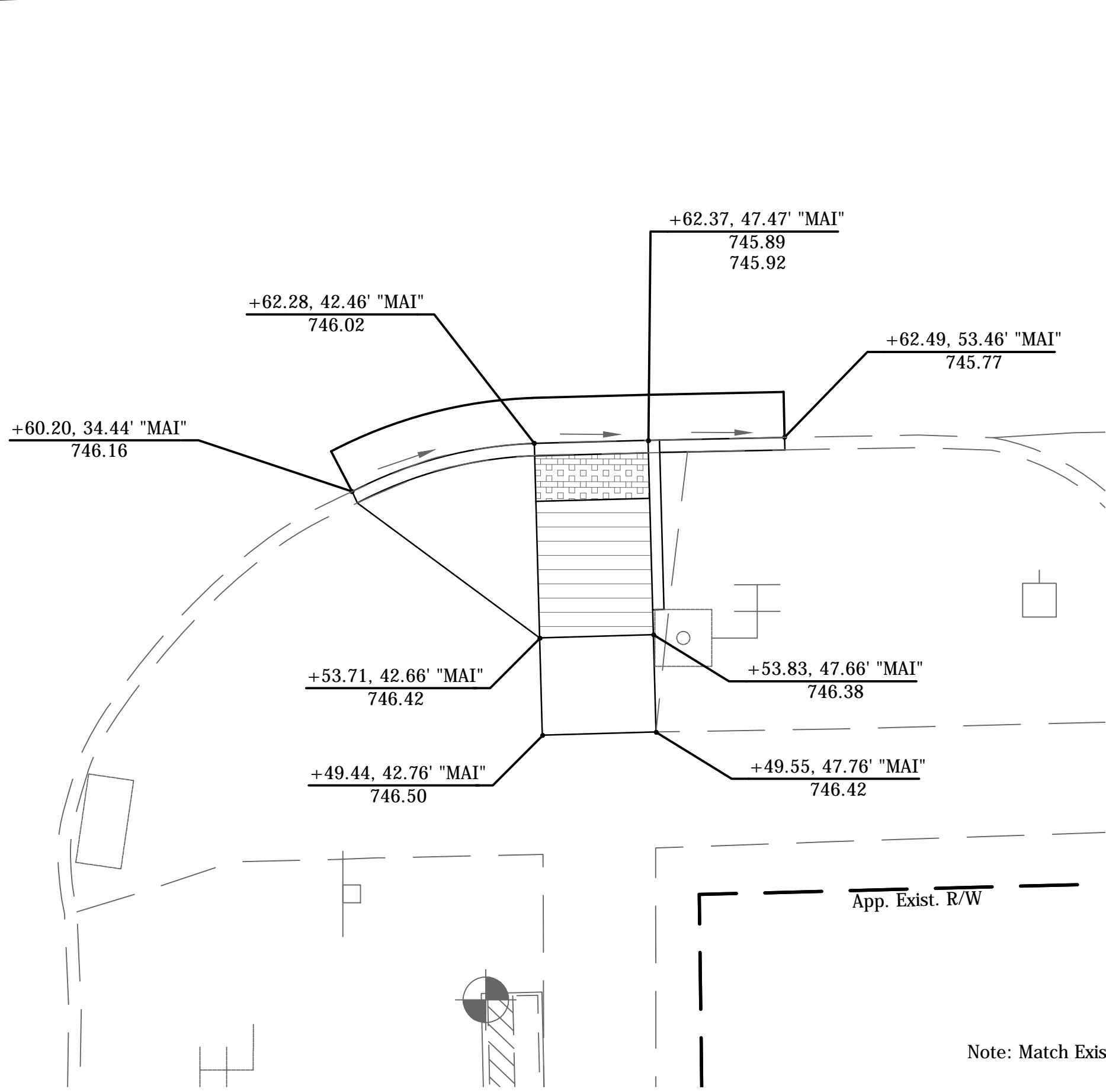
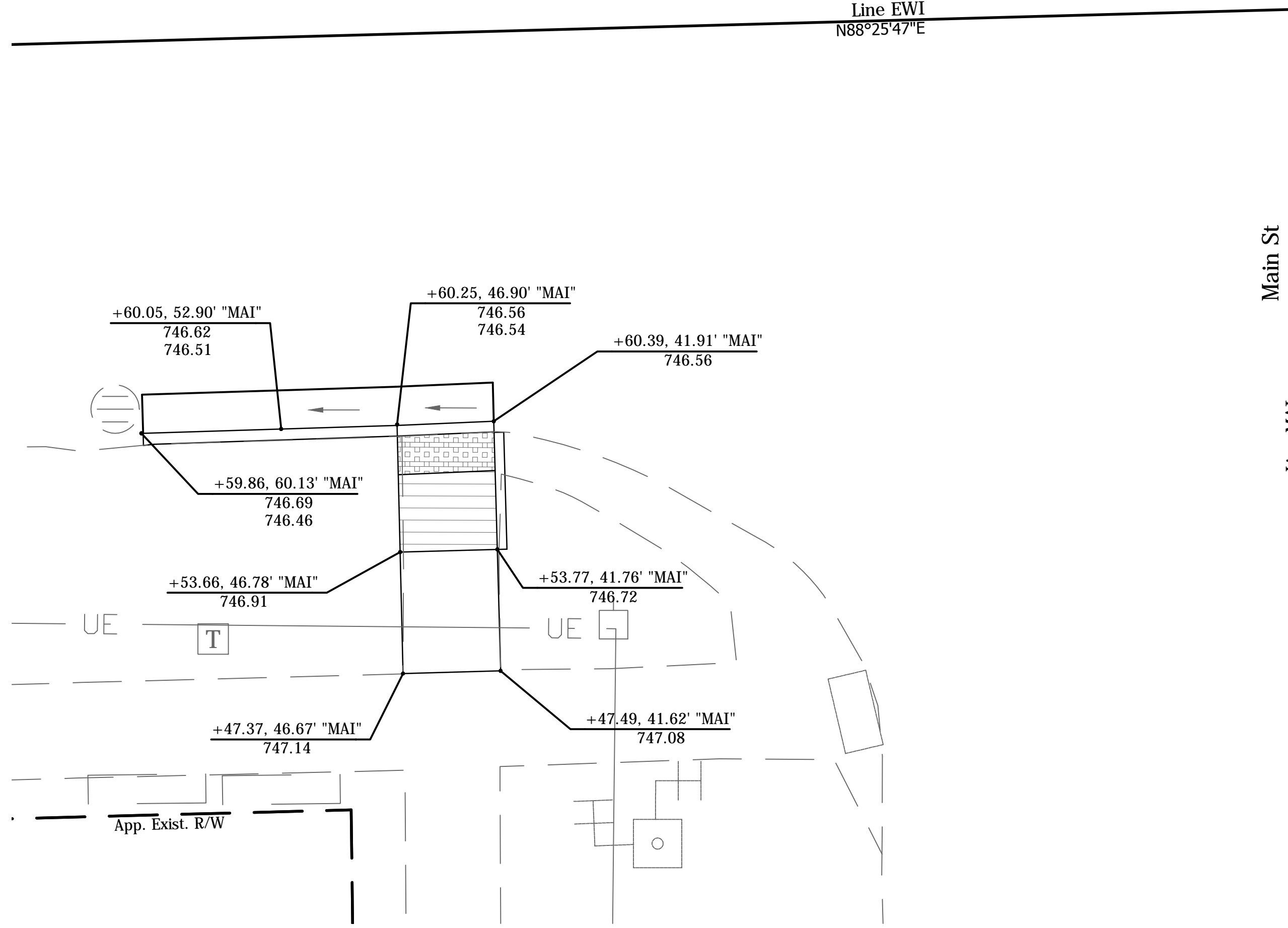
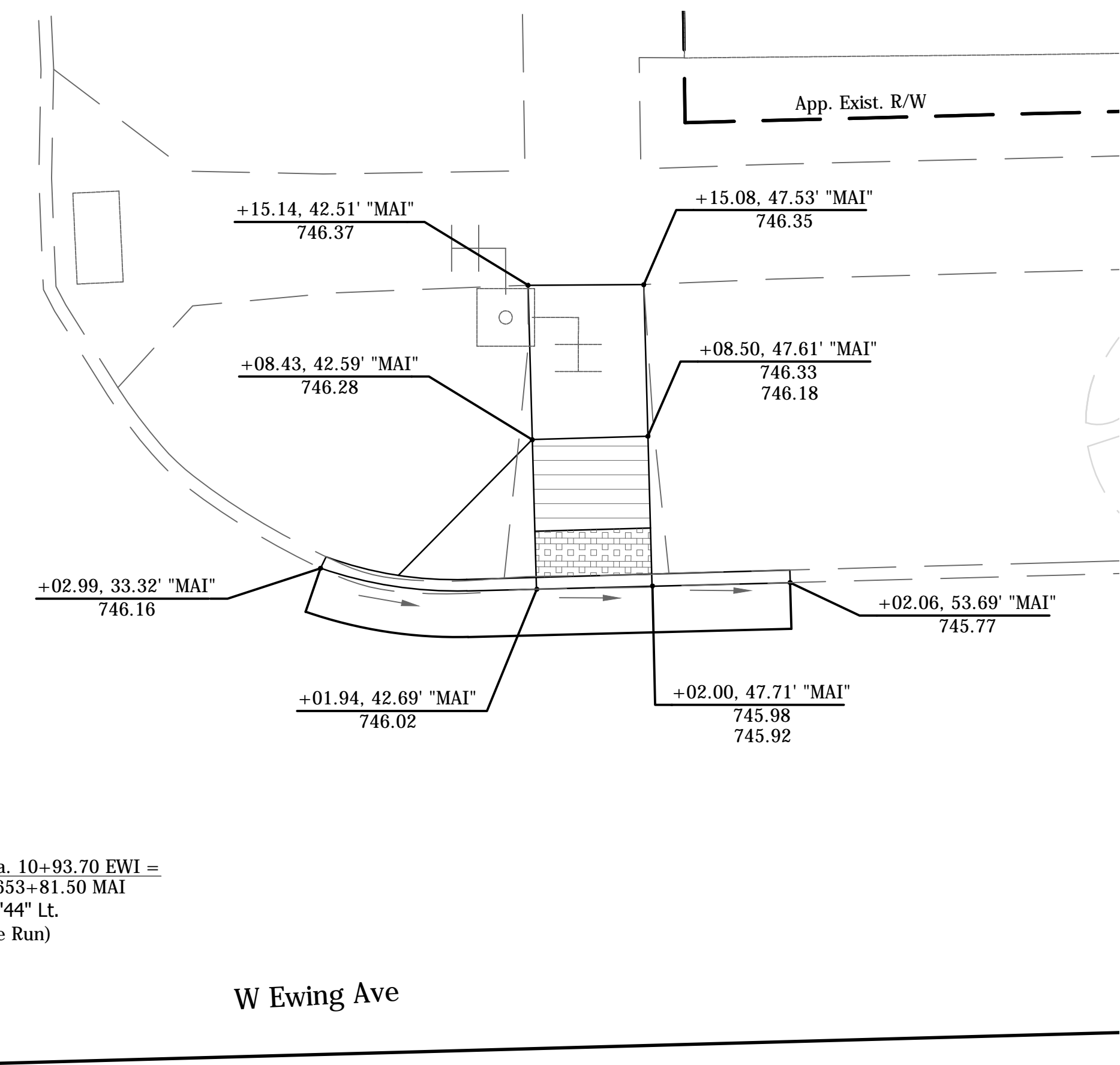
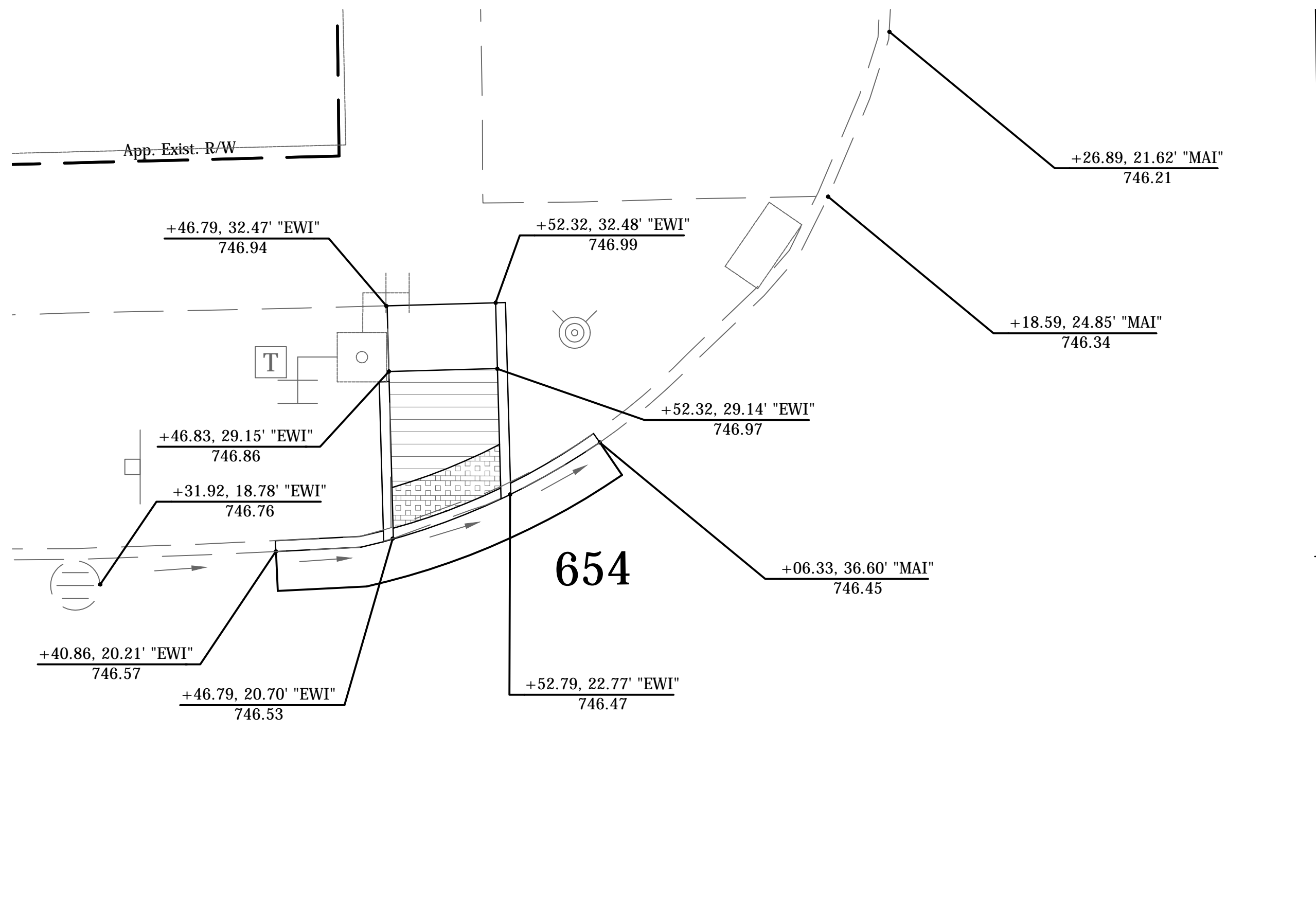


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016
DESIGNED:	HCF III	DRAWN:	BRD
CHECKED:	JG	CHECKED:	JG

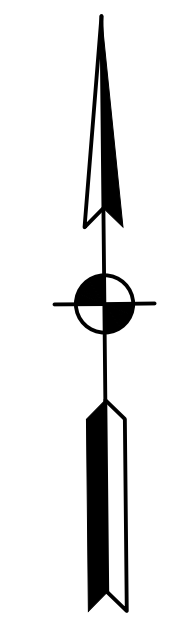
CITY OF SOUTH BEND

INTERSECTION DETAILS
MICHIGAN ST. AT EWING AVE.

HORIZONTAL SCALE	BRIDGE FILE
1"=10'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	11 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)



P.O.T. Sta. 10+93.70 EWI =
 P.I. Sta. 653+81.50 MAI
 $\Delta = 0^\circ 35' 44''$ Lt.
 (No Curve Run)

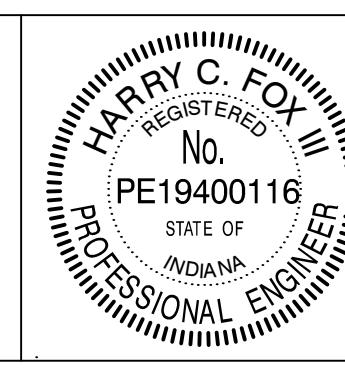


Station "Line"
 Existing Elevation
 Proposed Elevation

Note: Match Existing Elevation Unless Proposed is Indicated

DIRECTORY: F:\2015\15-3329 South Bend 2 Way Conversion\DRAWINGS\MISC
 FILE:3329 SPOT ELEV main ewing.dwg
 DIMSCALE: 1"=5'
 PLOTTED BY: hbrun... 15.06.16 - 4:00pm

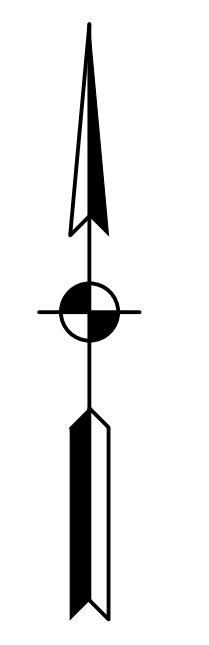
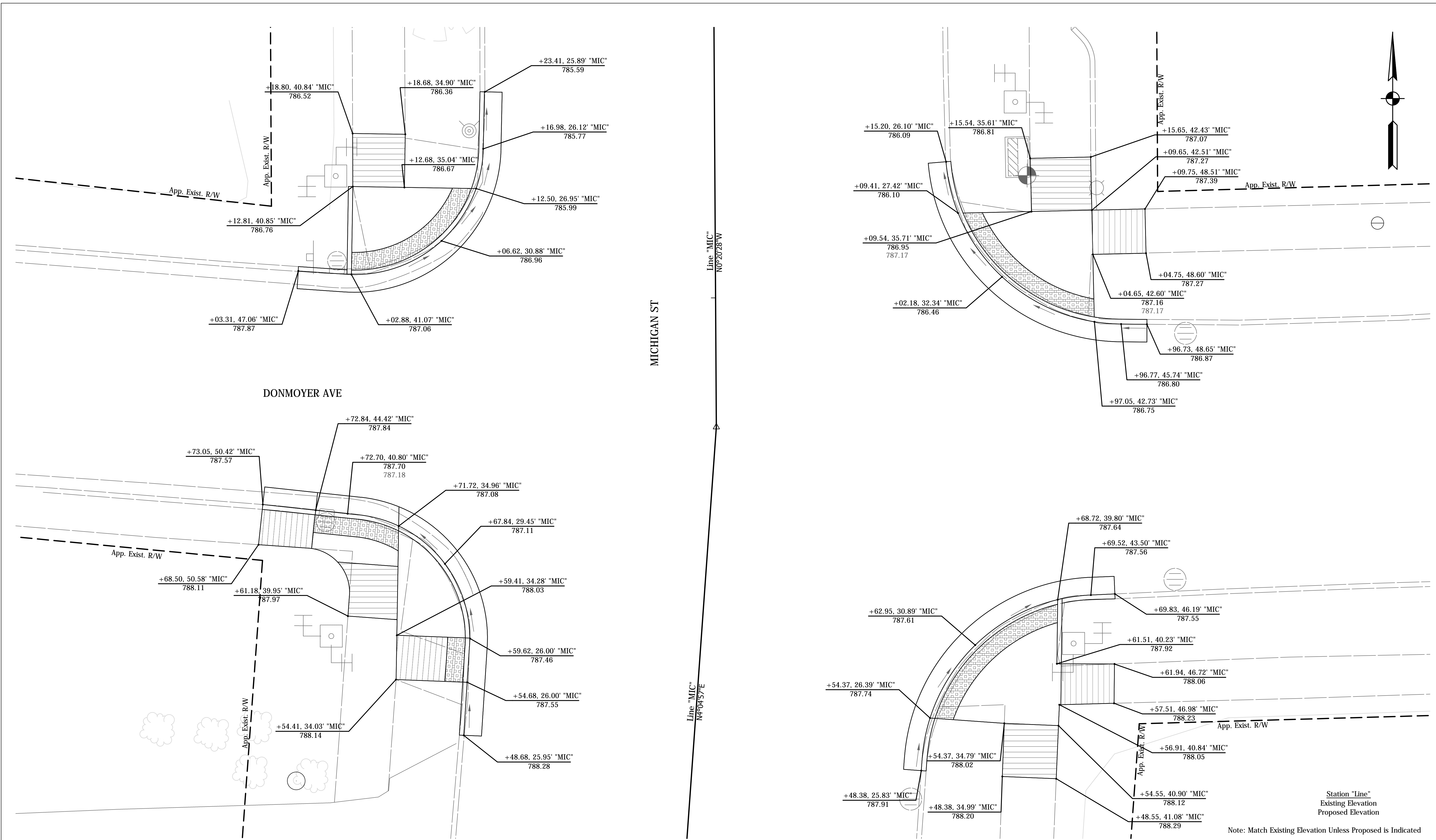
DATE	REVISION



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND
 SPOT ELEVATION DETAILS
 MAIN ST. AT EWING AVE.

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	N/A
VERTICAL SCALE	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	12 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

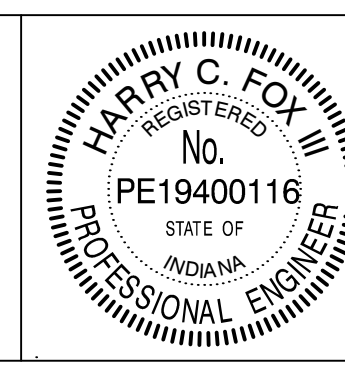


Station "Line"
Existing Elevation
Proposed Elevation

Note: Match Existing Elevation Unless Proposed is Indicated

DIRECTORY: F:\2015\15-3329 South Bend 2 Way Conversion\DRAWINGS\MISC
 FILE:.....SPOT ELEVATION DONMOYER.dwg
 PLOTTED BY: Rbruce...
 DATE:.....15.09.16 4:01pm

DATE	REVISION



RECOMMENDED FOR APPROVAL *Harry Fox* 01/07/2016
DESIGN ENGINEER DATE

DESIGNED: HCF III DRAWN: BRD
CHECKED: JG CHECKED: JG

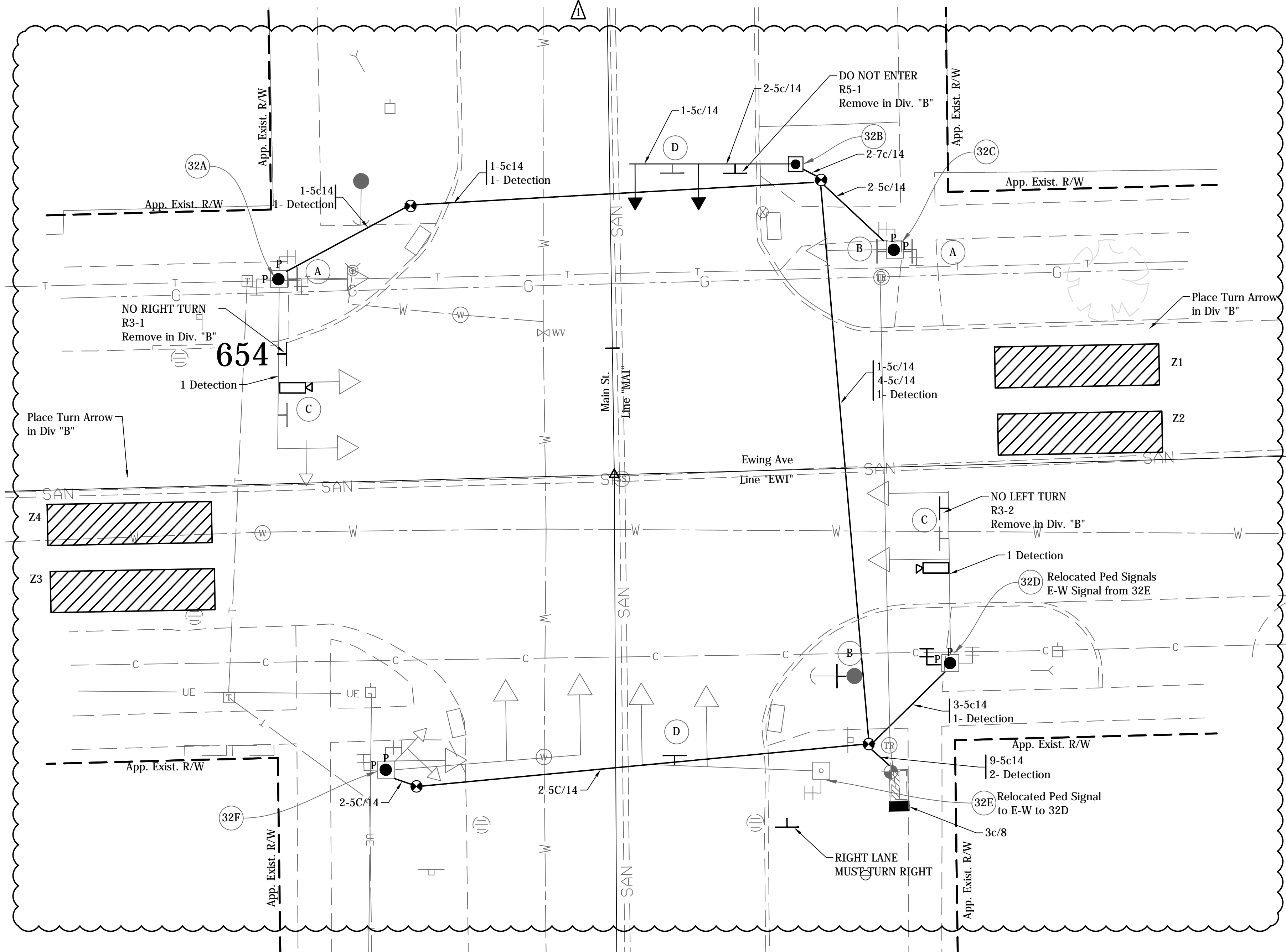
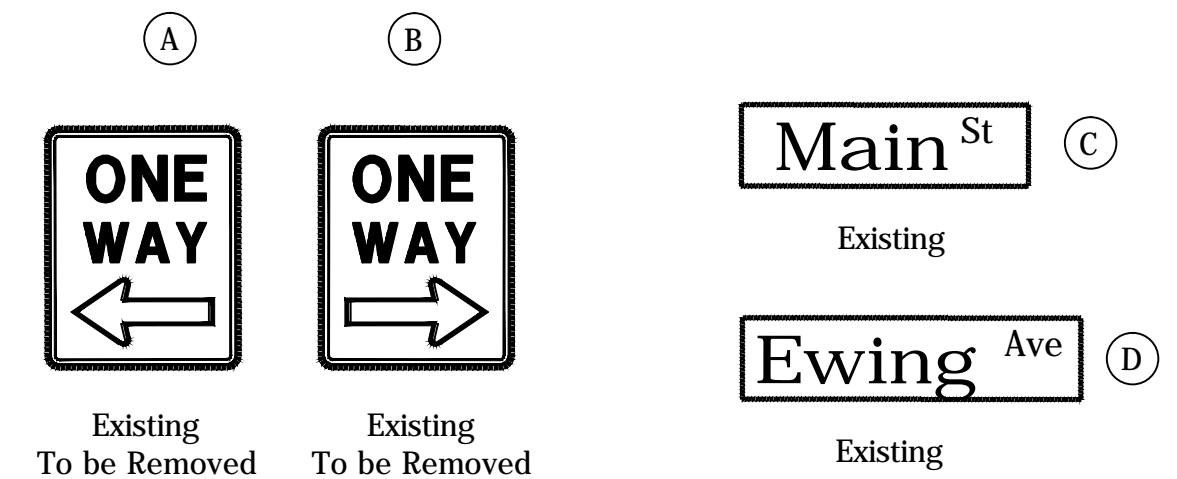
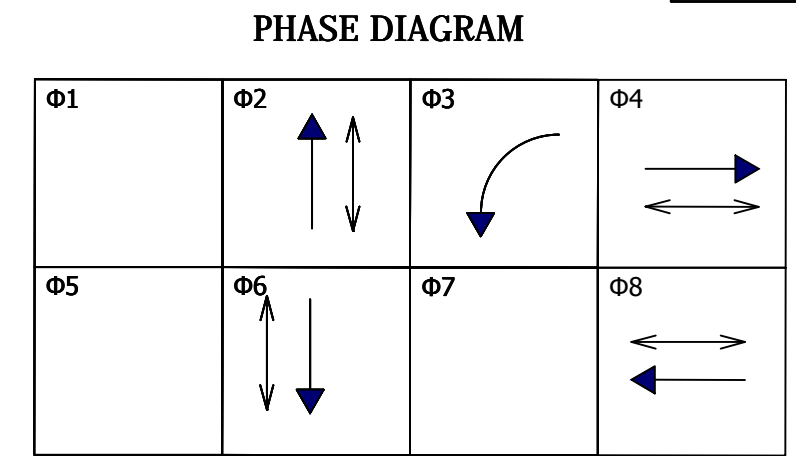
CITY OF SOUTH BEND

SPOT ELEVATION DETAILS
MICHIGAN ST & DONMOYER AVE

HORIZONTAL SCALE	BRIDGE FILE
1"=5'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	13 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

Signal Supports

- 32A Relocate to Remain
- 32B Relocated From 32E
- 32C Relocate to Remain
- 32D Relocate to Remain
- 32E Relocate to 32B
- 32F Relocate to Remain



- Legend**
- | | | | | |
|--|-----------------|--|-----------------|--|
| | Existing | | Proposed | Strain Pole and Foundation |
| | Existing | | Proposed | Mast Arm, Upright and Foundation |
| | Existing | | Proposed | HDPE Schedule 80 Conduit |
| | Existing | | Proposed | 18" Countdown Pedestrian Indication with Push Button and R10-4B sign |
| | Existing | | Proposed | 10' Traffic Signal Pedestal on "A" Foundation |
| | Existing | | Proposed | Relocated P-1 Cabinet & Controller on New P-1 Foundation |
| | Existing | | Proposed | Tesco Cabinet on P-1 Foundation |
| | Existing | | Proposed | Span Mounted Junction Box |
| | Existing | | Proposed | Handhole |
| | Existing | | Proposed | 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green) |
| | Existing | | Proposed | Relocated 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green) |
| | Existing | | Proposed | 5-Section LED Signal Indication (12" Red, 12" Amber, 12" Green 12" Amber Arrow, 12" Green Arrow) |
| | Existing | | Proposed | Loop Detector (6' x 6') |
| | Existing | | Proposed | Service Point |
| | Existing | | Proposed | Detector Housing |
| | Existing | | Proposed | Conduit Intercept |
| | Existing | | Proposed | Detection Camera |
| | Existing | | Proposed | Detection Zones |
| | Existing | | Proposed | 4' Traffic Signal Pedestal on "A" Foundation |
| | Existing | | Proposed | Pedestrian Push Button W/ R10-4B Sign |

Detection Zone

Zone	Phase	Delay
Z1	8	5 Sec.
Z2	8	5 Sec.
Z3	4	5 Sec.
Z4	4	5 Sec.

- Detection Notes:
- All Detection Zones Shall be 6'x25' (min.) and Shall Provide Presence Detection.
 - Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Detection Cameras to in Cabinet Equipment

- General Notes:
- Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
 - Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purpose of construction sequencing only. Contractor shall field verify the location and type of existing traffic signal equipment and cable as necessary.
 - Remove existing signal equipment as noted. Foundations shall be removed to two feet below finished grade. Hand hole removal shall be performed in a manner that allows the signal to remain operable. Signal conduit that is no longer in use shall be abandoned in place with existing wiring removed.
 - Contractor shall coordinate with local power company regarding location of power feed to new service pedestal. 3" conduit shall carry the power feed between the service point and the service pedestal.
 - Proposed mast arm foundations, pedestal foundations and cabinet footpads shall be constructed with a finished surface that is flush with the proposed sidewalk.
 - Existing & proposed mast arms, pedestal poles and controller cabinets shall be painted black (FS 17038).
 - Salvaged equipment shall be delivered to the City at the following address: 731 S Lafayette Blvd, South Bend, IN 46601
 - EMNET equipment is mounted to various traffic signal equipment within the project limits. The contractor shall contact Jeromy Slater of EMNET at (574) 387-9387 to arrange for pickup of any EMNET equipment removed as part of traffic signal equipment removal.
 - Replace Hand Hole Covers on Existing Mast Arms as Necessary.
 - All Conduit Under Pavement Shall Utilize the Directional Bore Method for Installation.

DATE	REVISION
1/15/2016	Rev 1: Add Pedestrian & Push Button & Conduit & Revised Gen Notes

CITY OF SOUTH BEND

DESIGNER: HARRY FOX DATE: 01/07/2016

DESIGN ENG. HARRY FOX DATE: 01/07/2016

TRAFFIC SIGNAL DETAIL
MAIN ST & EWING AVE

SCALE: 1" = 10'

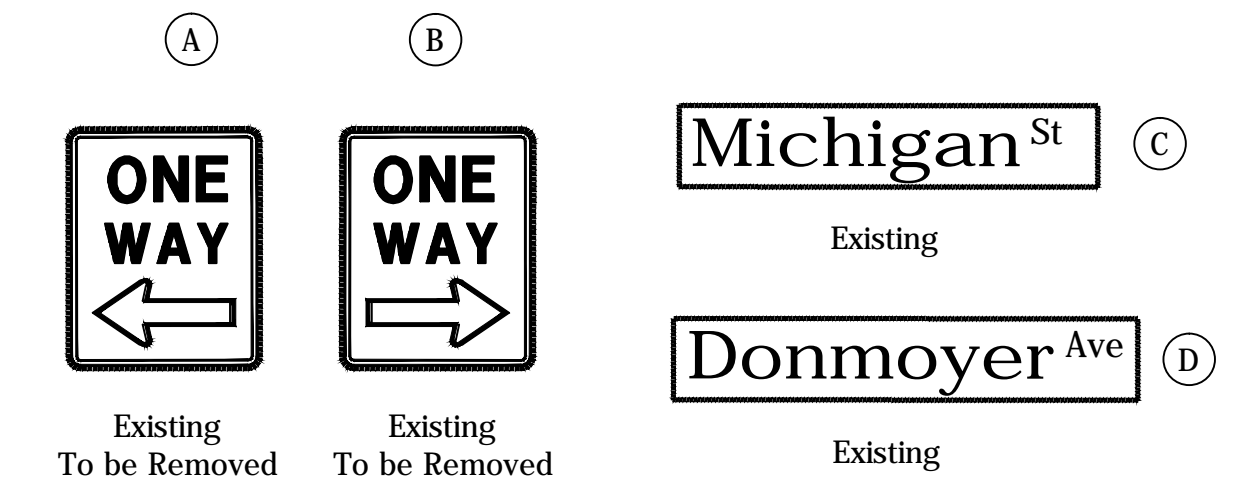
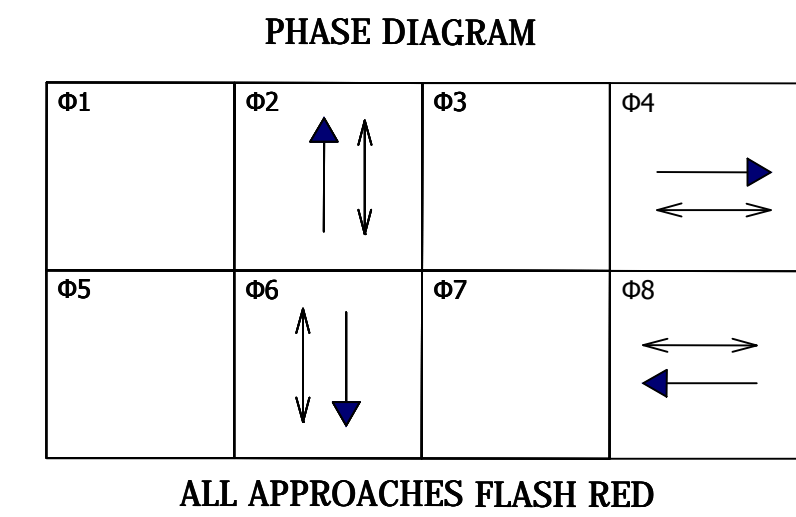
CONTRACT NO. N/A	DRAWN BY BRD	YEAR 2016	SHEET 14	TOTAL 27
COMM. NO. N/A	DES. NO. N/A	PROJECT NO. 115-019 (DIV A)		

HARRY C. FOX III
REGISTERED PROFESSIONAL ENGINEER
No. PE19400116
STATE OF INDIANA

DIRECTORY: F:\2015\15-329 South Bend 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\SIGNAL Plans South\...
 FILE: ...15-329 Signal Plans south main and ewing.dwg
 DMSCALE: 1" = 10'
 PLOTTED BY: ...
 DATE: 1/15/2016 4:01pm

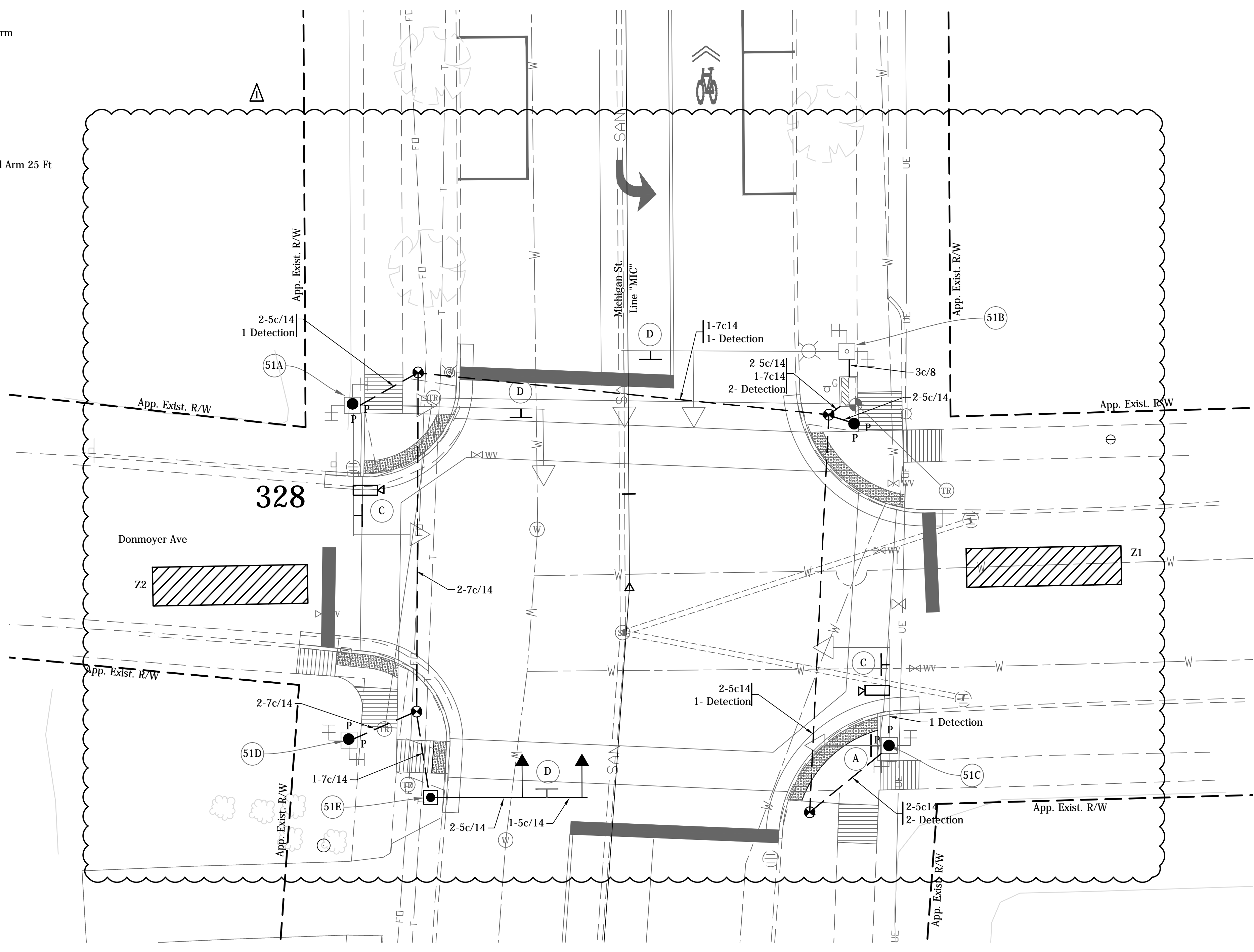
Signal Supports

- 51A To Remain, Remove N.B. Mast Arm
- 51B To Remain
- 51C To Remain
- 51D To Remain
- 51E New, Cantilever Structure, Signal Arm 25 Ft



Legend

	Existing		Proposed	Strain Pole and Foundation
	Existing			Mast Arm, Upright and Foundation
	Existing			HDPE Schedule 80 Conduit
	Existing			18" Countdown Pedestrian Indication with Push Button and R10-4B sign
	Existing			10' Traffic Signal Pedestal on "A" Foundation
	Existing			Relocated P-1 Cabinet & Controller on New P-1 Foundation
	Existing			Tesco Cabinet on P-1 Foundation
	Existing			Span Mounted Junction Box
	Existing			Handhole
	Existing			3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)
	Existing			Relocated 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)
	Existing			5-Section LED Signal Indication (12" Red, 12" Amber, 12" Green 12" Amber Arrow, 12" Green Arrow)
	Existing			Loop Detector (6' x 6')
	Existing			Service Point
	Existing			Detector Housing
	Existing			Conduit Intercept
	Existing			4' Traffic Signal Pedestal on "A" Foundation
	Existing			Pedestrian Push Button W/ R10-4B Sign
	Existing			Detection Camera
	Existing			Detection Zones



Detection Zone

Zone	Phase	Delay
Z1	8	5 Sec.
Z2	4	5 Sec.

Detection Notes:
 (1) All Detection Zones Shall be 6'x25' (min.) and Shall Provide Presence Detection.
 (2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Detection Cameras to in Cabinet Equipment

- General Notes:**
- Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
 - Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purpose of construction sequencing only. Contractor shall field verify the location and type of existing traffic signal equipment and cable as necessary.
 - Remove existing signal equipment as noted. Foundations shall be removed to two feet below finished grade. Hand hole removal shall be performed in a manner that allows the signal to remain operable. Signal conduit that is no longer in use shall be abandoned in place with existing wiring removed.
 - Contractor shall coordinate with local power company regarding location of power feed to new service pedestal. 3" conduit shall carry the power feed between the service point and the service pedestal.
 - Proposed mast arm foundations, pedestal foundations and cabinet footpads shall be constructed with a finished surface that is flush with the proposed sidewalk.
 - Existing & proposed mast arms, pedestal poles and controller cabinets shall be painted black (FS 17038).
 - Salvaged signal equipment shall be delivered to the City at the following address: 731 S Lafayette Blvd, South Bend, IN 46601
 - EMNET equipment is mounted to various traffic signal equipment within the project limits. The contractor shall contact Jeromy Slater of EMNET at (574) 387-9387 to arrange for pickup of any EMNET equipment removed as part of traffic signal equipment removal.
 - Replace Hand Hole Covers on Existing Mast Arms as Necessary.
 - All Conduit Under Pavement Shall Utilize the Directional Bore Method for Installation.

DATE	REVISION
1/15/2016	Rev 1: Add Pedestrian & Push Button & Conduit & Revised Gen Notes

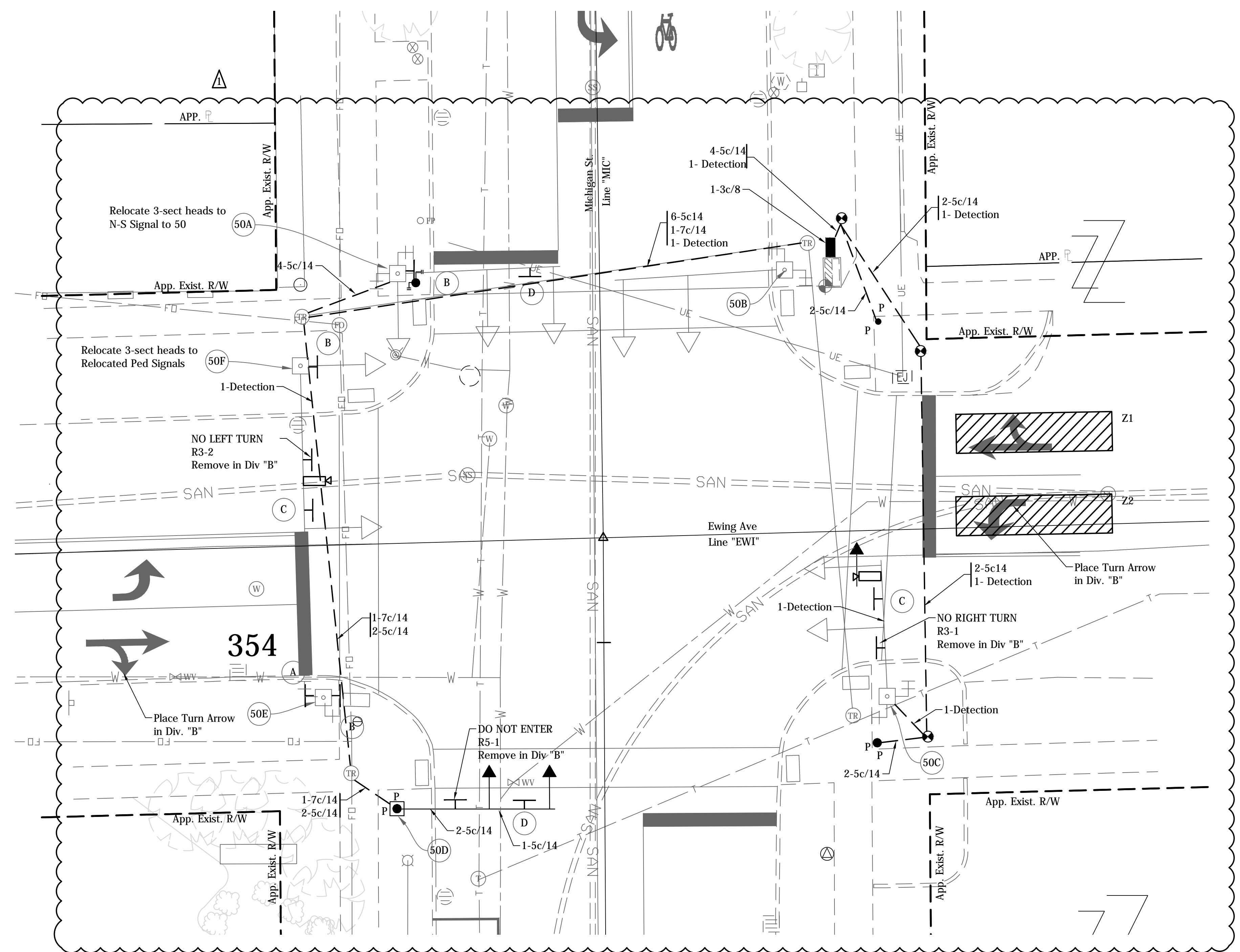
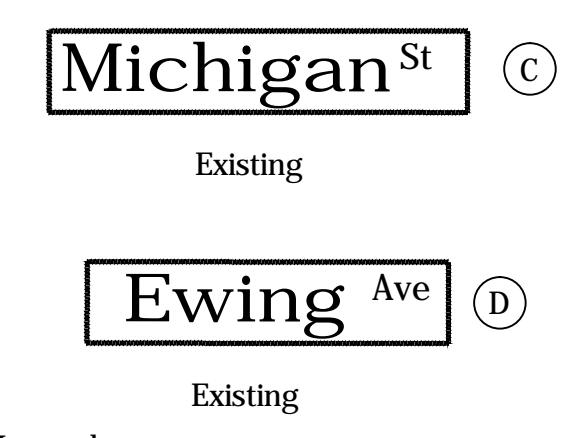
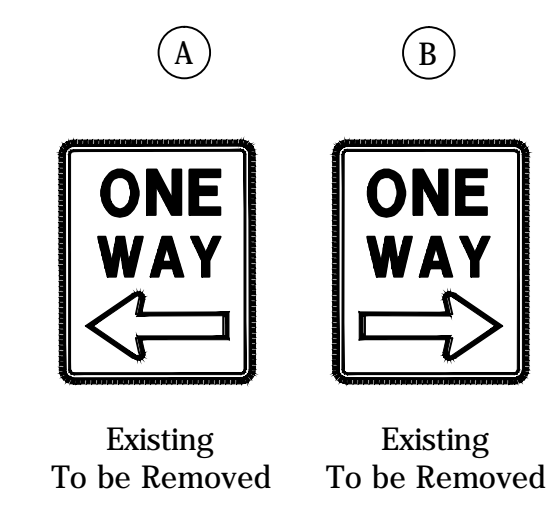
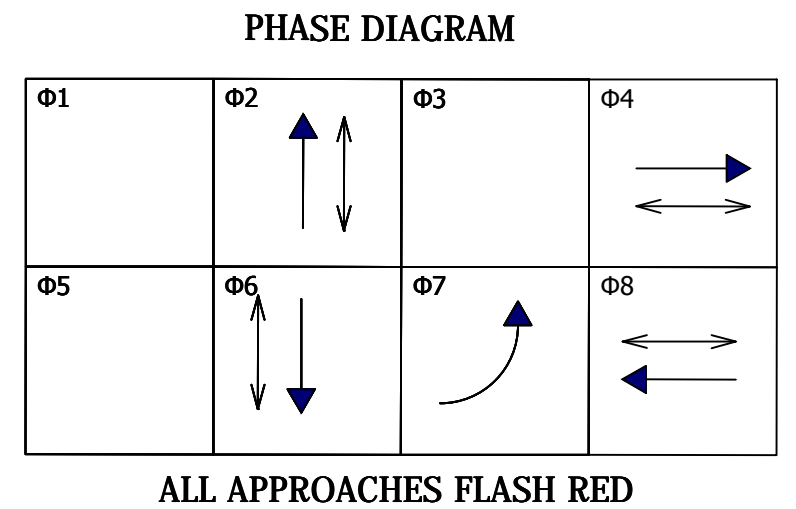
CITY OF SOUTH BEND

DESIGNER	DATE:	
DESIGN ENG. <i>Harry Fox</i>	DATE: 01/07/2016	
TRAFFIC SIGNAL DETAIL		
MICHIGAN ST & DONMOYER AVE		
CONTRACT NO. N/A	DRAWN BY BRD	SCALE: 1" = 10'
		YEAR SHEET TOTAL
		2016 15 27
COMM. NO. N/A	DES. NO. N/A	PROJECT NO. 115-019 (DIV A)

DIRECTORY: F:\2015\15-329 South Bend 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\SIGNAL Plans South\...
 FILE: ...15-329 Signal Plans south.dwg
 DMSCALE: 1
 PLOTTED BY: ...
 DATE: 01/15/2016 4:02pm

Signal Supports

- 50A Relocate to 50D
- 50B To Remain
- 50C To Remain
- 50D Relocated From 50A
- 50E To Remain
- 50F To Remain



- Legend**
- Proposed Strain Pole and Foundation
 - Proposed Mast Arm, Upright and Foundation
 - HDPE Schedule 80 Conduit
 - 18" Countdown Pedestrian Indication with Push Button and R10-4B sign
 - 10' Traffic Signal Pedestal on "A" Foundation
 - Relocated P-1 Cabinet & Controller on New P-1 Foundation
 - Tesco Cabinet on P-1 Foundation
 - Span Mounted Junction Box
 - Handhole
 - 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)
 - Relocated 3-Section LED Signal Indication (12" Red, 12" Amber, 12" Green)
 - 5-Section LED Signal Indication (12" Red, 12" Amber, 12" Green, 12" Amber Arrow, 12" Green Arrow)
 - Loop Detector (6' x 6')
 - Service Point
 - Detector Housing
 - Conduit Intercept
 - Detection Camera
 - Detection Zones
 - 4' Traffic Signal Pedestal on "A" Foundation
 - Pedestrian Push Button W/ R10-4B Sign

Detection Zone

Zone	Phase	Delay
Z1	8	5 Sec.
Z2	4	5 Sec.

Detection Notes:
 (1) All Detection Zones Shall be 6'x25' (min.) and Shall Provide Presence Detection.
 (2) Detection Cabling Denotes Hybrid Coax/Power Cable Connecting Detection Cameras to in Cabinet Equipment

General Notes:

1. Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
2. Location and type of underground traffic signal equipment and signal cable has been assumed based on field reviews. Existing signal cable is shown for the purpose of construction sequencing only. Contractor shall field verify the location and type of existing traffic signal equipment and cable as necessary.
3. Remove existing signal equipment as noted. Foundations shall be removed to two feet below finished grade. Hand hole removal shall be performed in a manner that allows the signal to remain operable. Signal conduit that is no longer in use shall be abandoned in place with existing wiring removed.
4. Contractor shall coordinate with local power company regarding location of power feed to new service pedestal. 3" conduit shall carry the power feed between the service point and the service pedestal.
5. Proposed mast arm foundations, pedestal foundations and cabinet foot pads shall be constructed with a finished surface that is flush with the proposed sidewalk.
6. Existing & proposed mast arms, pedestal poles and controller cabinets shall be painted black (FS 17038).
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8. EMNET equipment is mounted to various traffic signal equipment within the project limits. The contractor shall contact Jeremy Slater of EMNET at (574) 387-9387 to arrange for pickup of any EMNET equipment removed as part of traffic signal equipment removal.
9. Replace Hand Hole Covers on Existing Mast Arms as Necessary.
10. All Conduit Under Pavement Shall Utilize the Directional Bore Method for Installation.

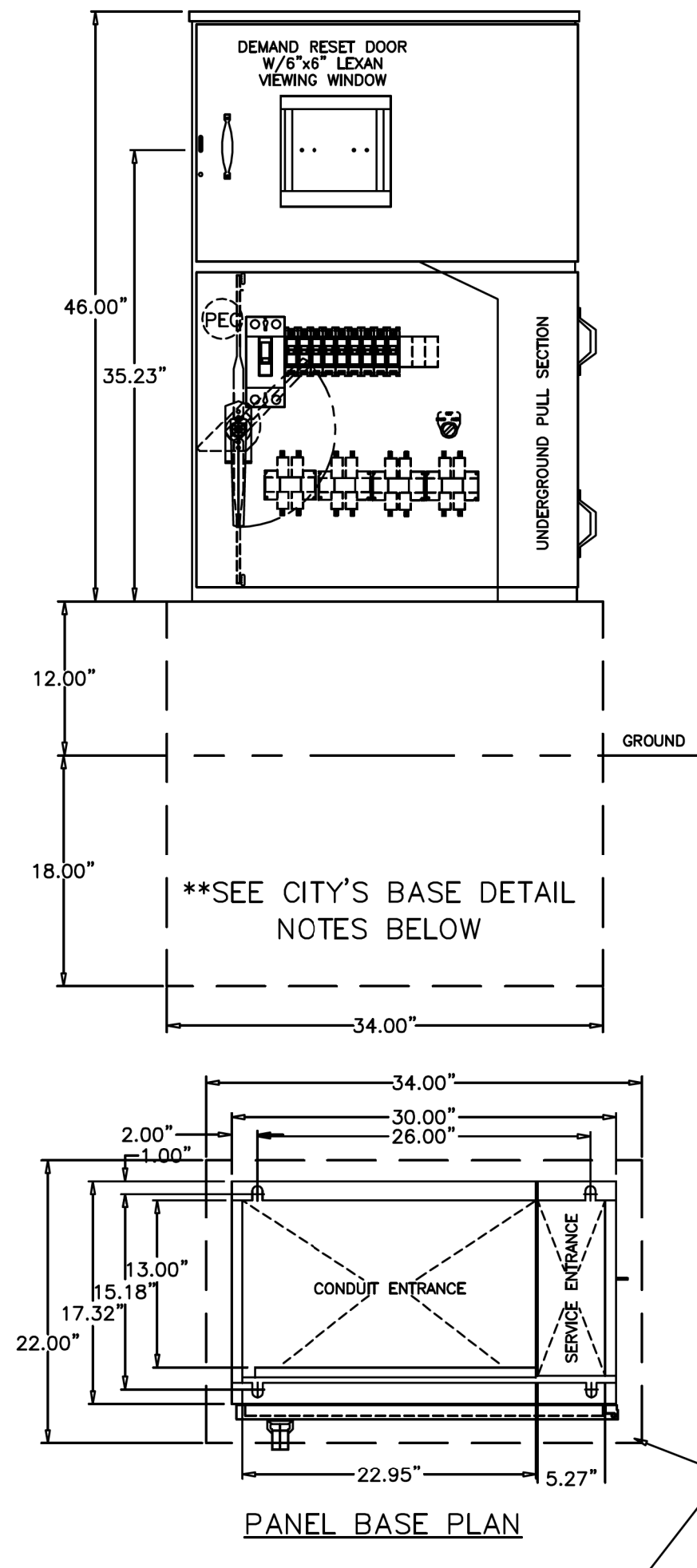
DATE	REVISION
1/15/2016	Rev 1: Add Pedestrian & Push Button & Conduit & Revised Gen Notes

CITY OF SOUTH BEND

DESIGNER	DATE:	
DESIGN ENG. <i>Harry Fox</i>	DATE: 01/07/2016	
TRAFFIC SIGNAL DETAIL		
MICHIGAN ST & EWING AVE		
CONTRACT NO. N/A	DRAWN BY BRD	SCALE: 1" = 10'
		YEAR SHEET TOTAL
		2016 16 27
COMM. NO. N/A	DES. NO. N/A	PROJECT NO. 115-019 (DIV A)

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\SIGNAL DETAILS\SIGNAL Plans South\...
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 PLOTTED BY: bbr...
 DATE: 1/15/2016 4:02pm

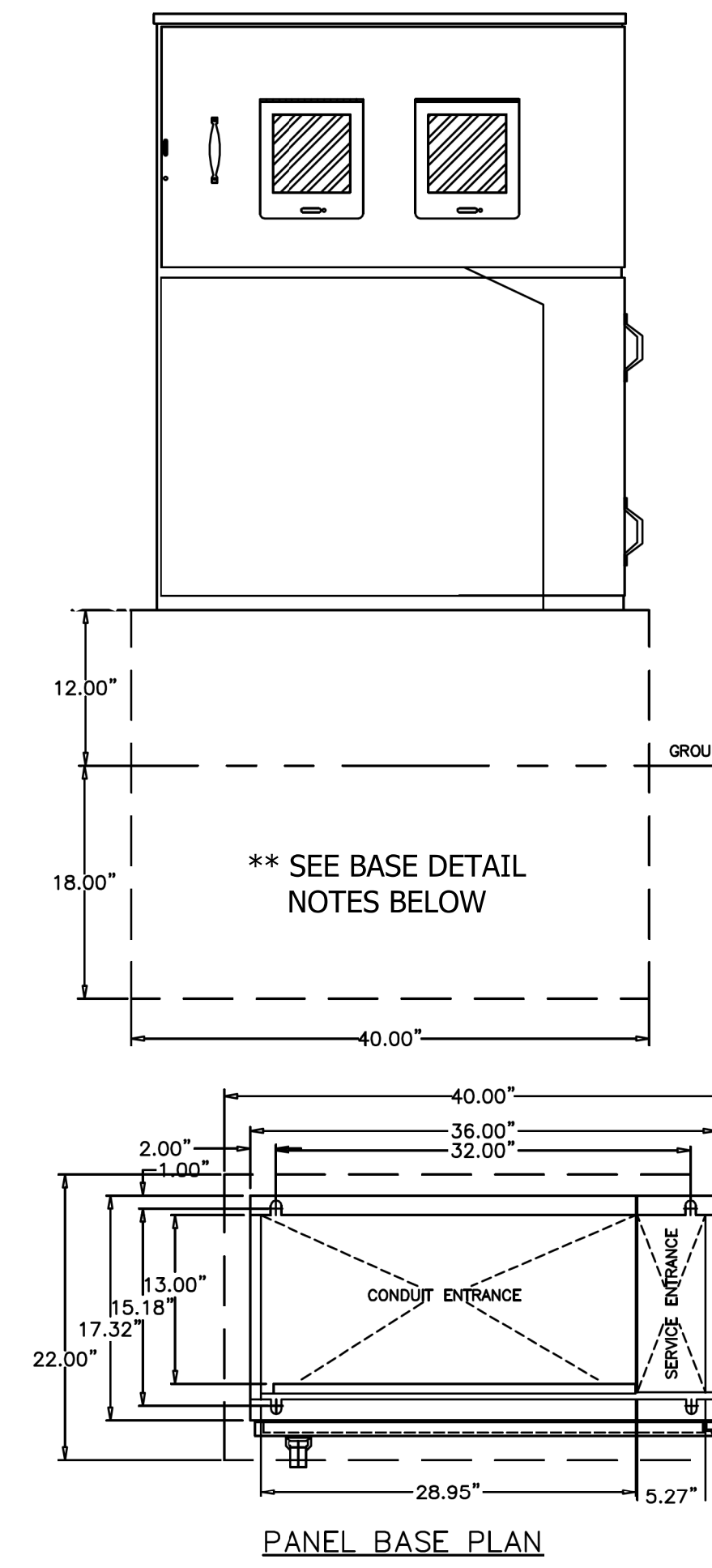
SINGLE METER SERVICE PEDESTAL



BASE DETAILS

BASE MUST BE 34" W x 30" H x 22" D
 12" (OF 30") MUST BE EXPOSED ABOVE GROUND
 18" (OF 30") MUST BE BELOW GROUND

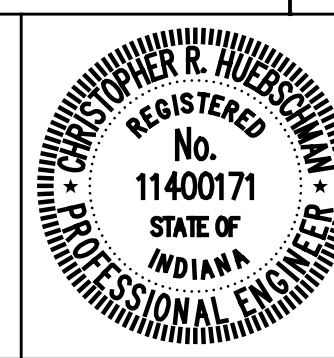
DUAL METER SERVICE PEDESTAL



BASE DETAILS

BASE MUST BE 40" W x 30" H x 22" D
 12" (OF 30") MUST BE EXPOSED ABOVE GROUND
 18" (OF 30") MUST BE BELOW GROUND

DATE	REVISION
1/15/2016	REV 1: Added Sheet

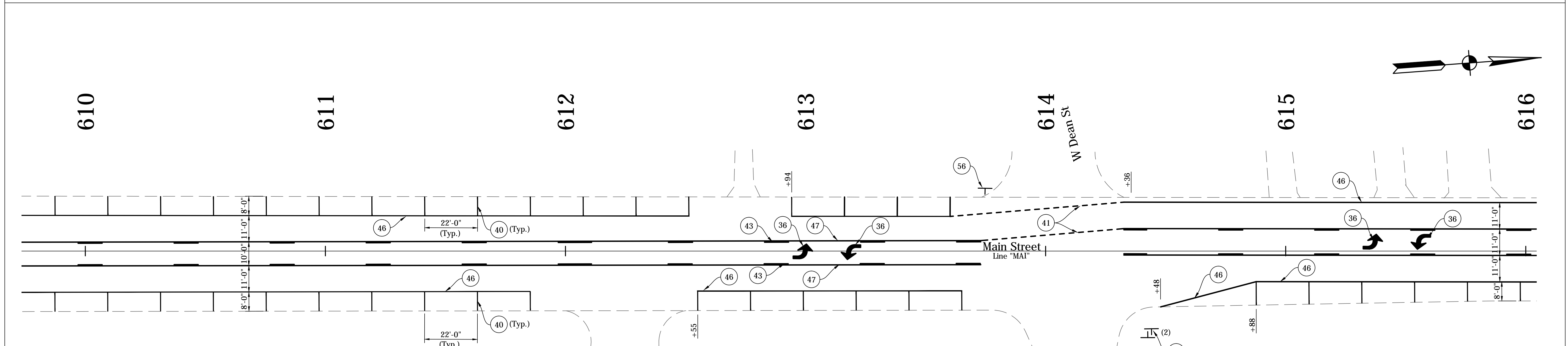
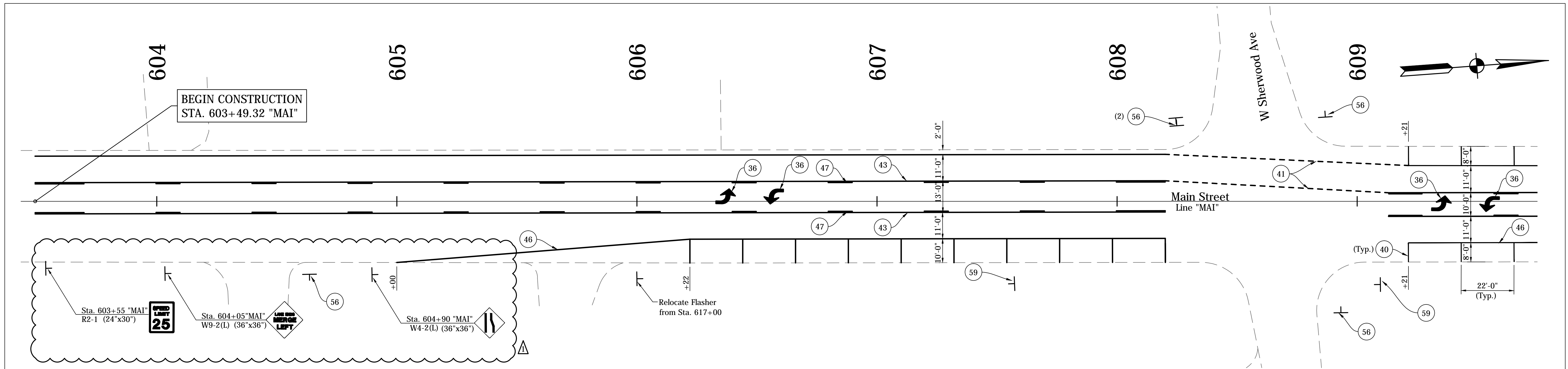


RECOMMENDED FOR APPROVAL	<i>CRH</i>	DESIGN ENGINEER	DATE
DESIGNED:		DRAWN:	JRG
CHECKED:	CRH	CHECKED:	CRH

CITY OF SOUTH BEND
TRAFFIC SIGNAL DETAIL
SERVICE PEDESTAL BASE DETAIL

HORIZONTAL SCALE	BRIDGE FILE
N.T.S.	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	16-1 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

I:\Info-Pkg\Info-Pkg_201401351_SG\pedestal



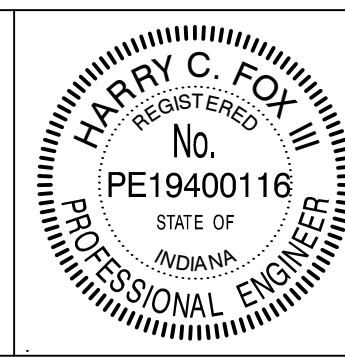
NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MAI", Except as Noted.

LEGEND

- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- (40) Parallel Parking Spaces, See Detail
- (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
- (43) Line, Thermoplastic, Broken, Yellow, 4 in.
- (45) Line, Thermoplastic, Solid, White, 6 in.
- (46) Line, Thermoplastic, Solid, White, 4 in.
- (47) Line, Thermoplastic, Solid, Yellow, 4 in.
- (55) Pavement Message Markings, Thermoplastic, Share the Road
- (56) Sign, Sheet, and Supports, Remove (One Way Sign, Other Signs & Supports to Remain)
- (58) Sign, Sheet, Relocate
- (59) Sign, Sheet, Remove & Reset
- (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM_South\
 FILE:15-3329 PM Main at 4W
 DIMSCALE: 1"=20'
 PLOTTED BY: JG
 DATE:15/05/2016 - 4:03pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs



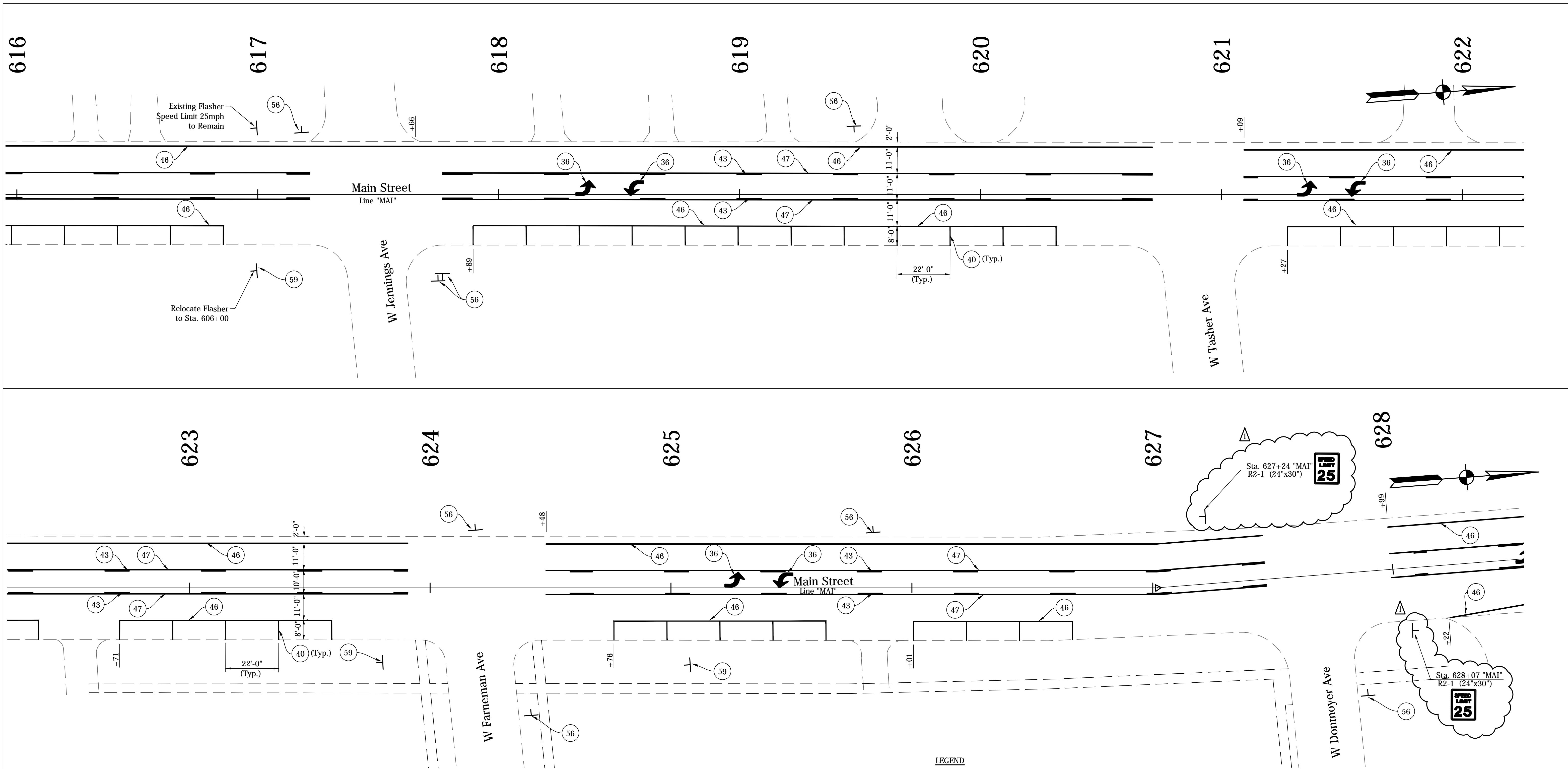
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

PAVEMENT MARKINGS & SIGNING DETAILS

MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	17 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

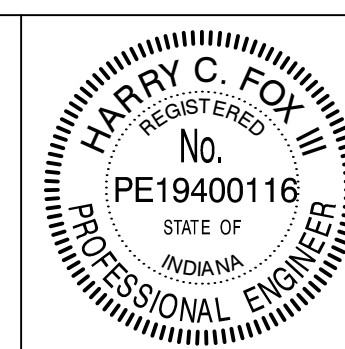


NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MAI", Except as Noted.

- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
 - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
 - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
 - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
 - (40) Parallel Parking Spaces, See Detail
 - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
 - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
 - (45) Line, Thermoplastic, Solid, White, 6 in.
 - (46) Line, Thermoplastic, Solid, White, 4 in.
 - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
 - (55) Pavement Message Markings, Thermoplastic, Share the Road
 - (56) Sign, Sheet, and Supports, Remove (One Way Sign, Other Signs & Supports to Remain)
 - (58) Sign, Sheet, Relocate
 - (59) Sign, Sheet, Remove & Reset
 - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKINGS\PM_South\
 FILE: 15-3329 PM Main at 4Wg
 DIMSCALE: 1"=20'
 PLOTTED BY: JG
 DATE: 01/15/2016 4:03pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs



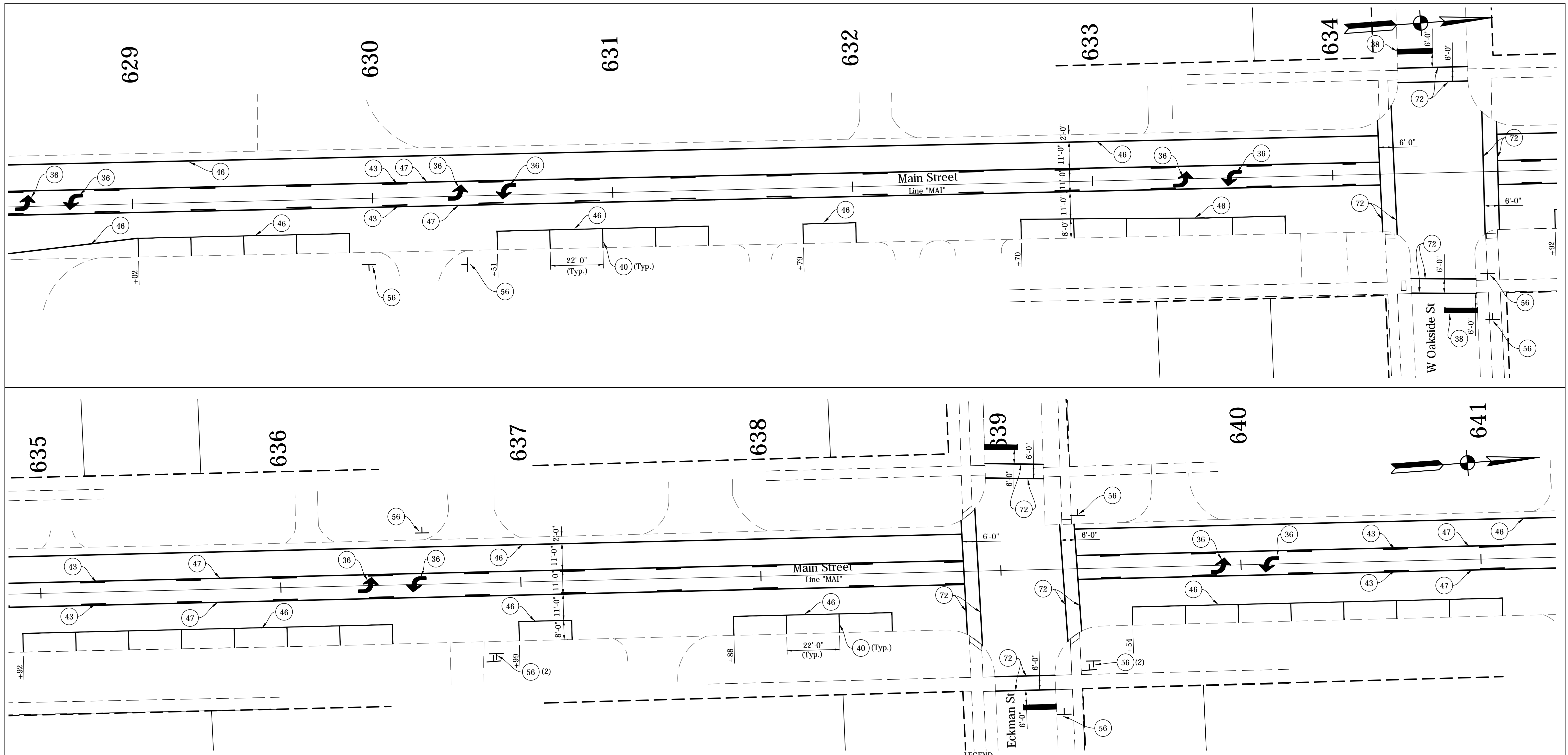
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DRAWN:
CHECKED:	JG	CHECKED:
		DATE
		DESIGN ENGINEER

CITY OF SOUTH BEND

PAVEMENT MARKINGS & SIGNING DETAILS

MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	18 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

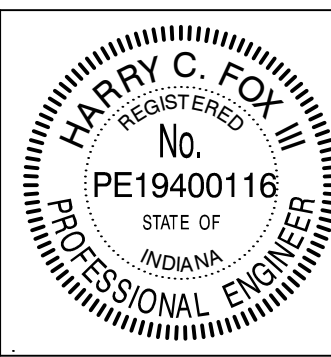


NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MAI", Except as Noted.

- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
 - (35) Pavement Message Markings, Thermoplastic, Arrow, 72 in.
 - (36) Pavement Message Markings, Thermoplastic, Lane Indication Arrow
 - (38) Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
 - (40) Parallel Parking Spaces, See Detail
 - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
 - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
 - (45) Line, Thermoplastic, Solid, White, 6 in.
 - (46) Line, Thermoplastic, Solid, White, 4 in.
 - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
 - (55) Pavement Message Markings, Thermoplastic, Share the Road
 - (56) Sign, Sheet, and Supports, Remove (One Way Sign, Other Signs & Supports to Remain)
 - (58) Sign, Sheet, Relocate
 - (59) Sign, Sheet, Remove & Reset
 - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKINGS\PM_South\
 FILE: 15-3329 PM Main at 4Wg
 DIMSCALE: 1"=20'
 PLOTTED BY: JG
 DATE: 1/15/2016 4:03pm

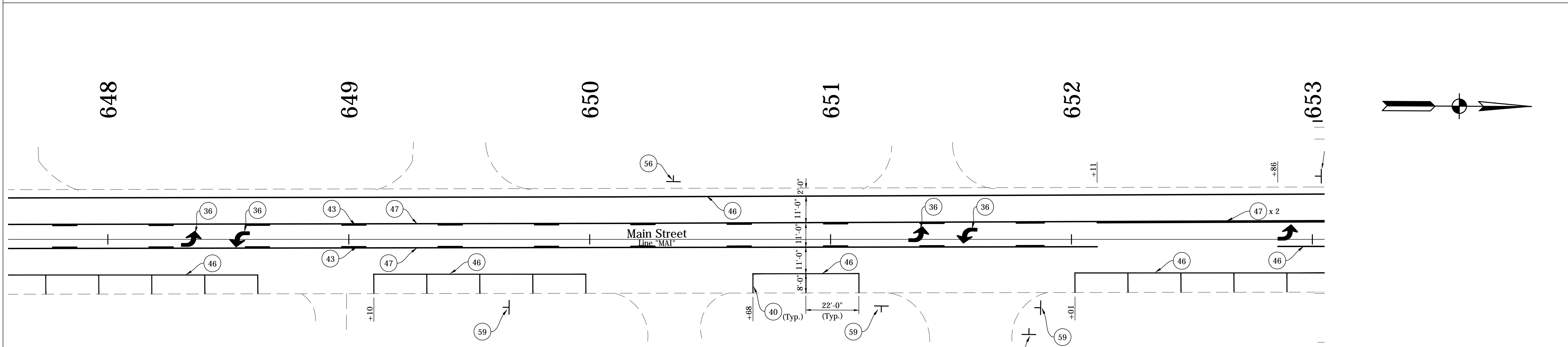
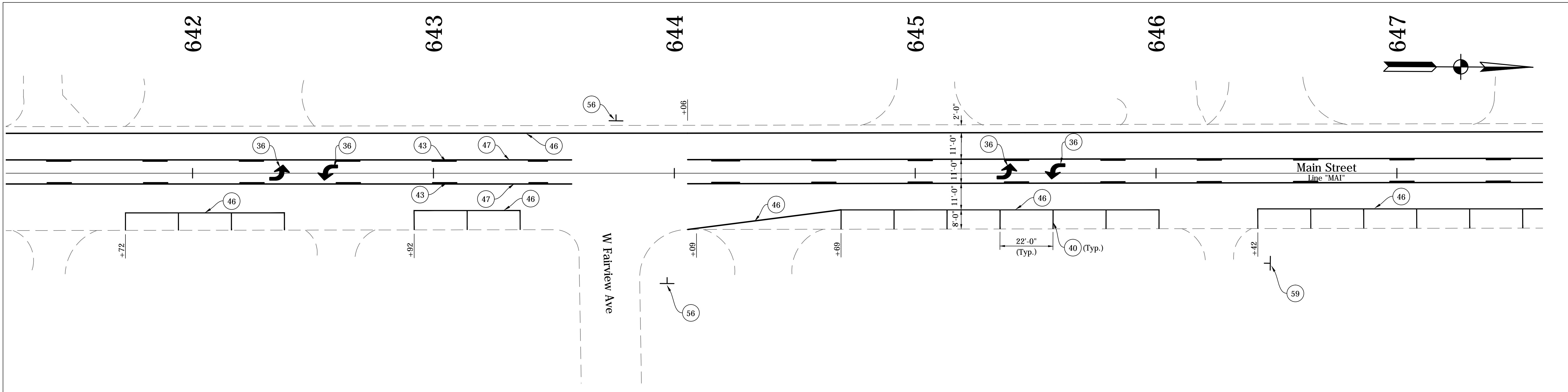
DATE	REVISION
1/15/2016	Rev 1: Revise Legend



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND
PAVEMENT MARKINGS & SIGNING DETAILS
MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	19 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

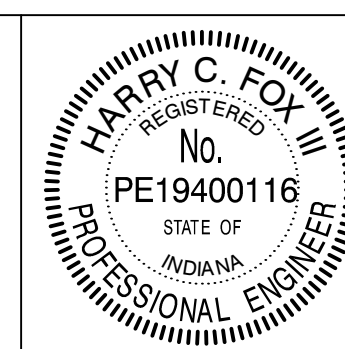


NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MAI". Except as Noted.

- LEGEND**
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 - (41) Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
 - (43) Line, Thermoplastic, Broken, Yellow, 4 in.
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 - (46) Line, Thermoplastic, Solid, White, 4 in.
 - (47) Line, Thermoplastic, Solid, Yellow, 4 in.
 - (55) Pavement Message Markings, Thermoplastic, Share the Road
 - (56) Sign, Sheet, and Supports, Remove (One Way Sign, Other Signs & Supports to Remain)
 - (58) Sign, Sheet, Relocate
 - (59) Sign, Sheet, Remove & Reset
 - (72) Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM South\
 FILE:15-3329 PM Main at 4Wg
 DIMSCALE: 1"=20'
 PLOTTED BY: JG
 DATE:15/2016 - 4:04pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend



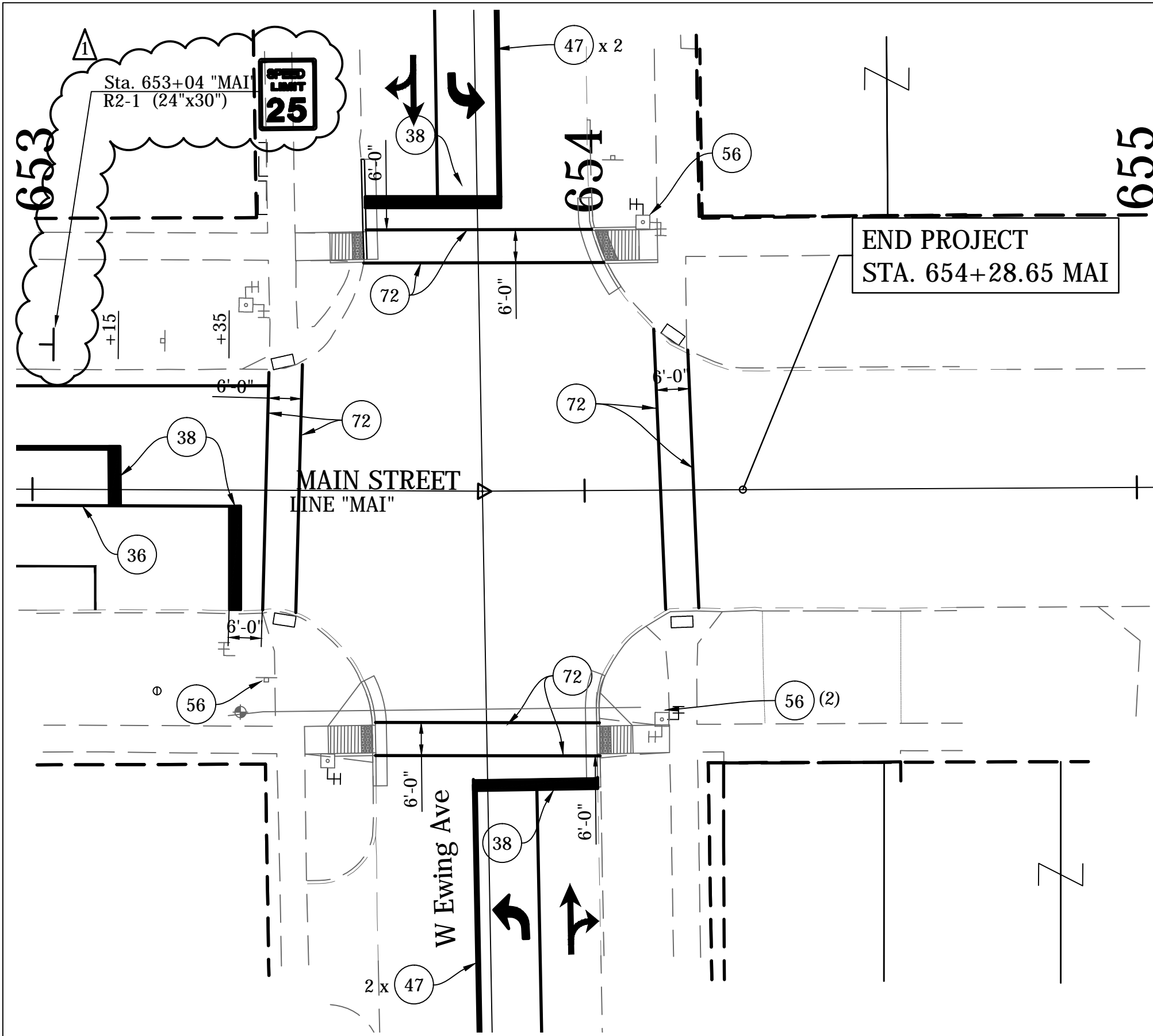
RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DRAWN:
CHECKED:	JG	CHECKED:

CITY OF SOUTH BEND

PAVEMENT MARKINGS & SIGNING DETAILS

MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	20 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)



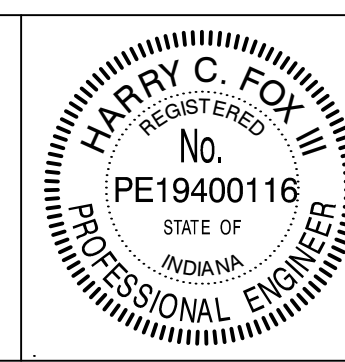
NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MAI", Except as Noted.

LEGEND

- 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
- 36 Pavement Message Markings, Thermoplastic, Lane Indication Arrow
- 38 Transverse Markings, Thermoplastic, Stop Line, White, 24 in.
- 40 Parallel Parking Spaces, See Detail
- 41 Line, Thermoplastic, Dotted, White, 6 in. (2' Line, 2' Gap)
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- 45 Line, Thermoplastic, Solid, White, 6 in.
- 46 Line, Thermoplastic, Solid, White, 4 in.
- 47 Line, Thermoplastic, Solid, Yellow, 4 in.
- 55 Pavement Message Markings, Thermoplastic, Share the Road
- 56 Sign, Sheet, and Supports, Remove (One Way Sign, Other Signs & Supports to Remain)
- 58 Sign, Sheet, Relocate
- 59 Sign, Sheet, Remove & Reset
- 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM South\
 FILE:15-3329 PM Main at 4Wg
 DIMSCALE: 1" = 20'
 PLOTTED BY: Bburson
 DATE:15/05/2016 - 4:04pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DRAWN:
CHECKED:	JG	CHECKED:
		BRD
		JG

CITY OF SOUTH BEND

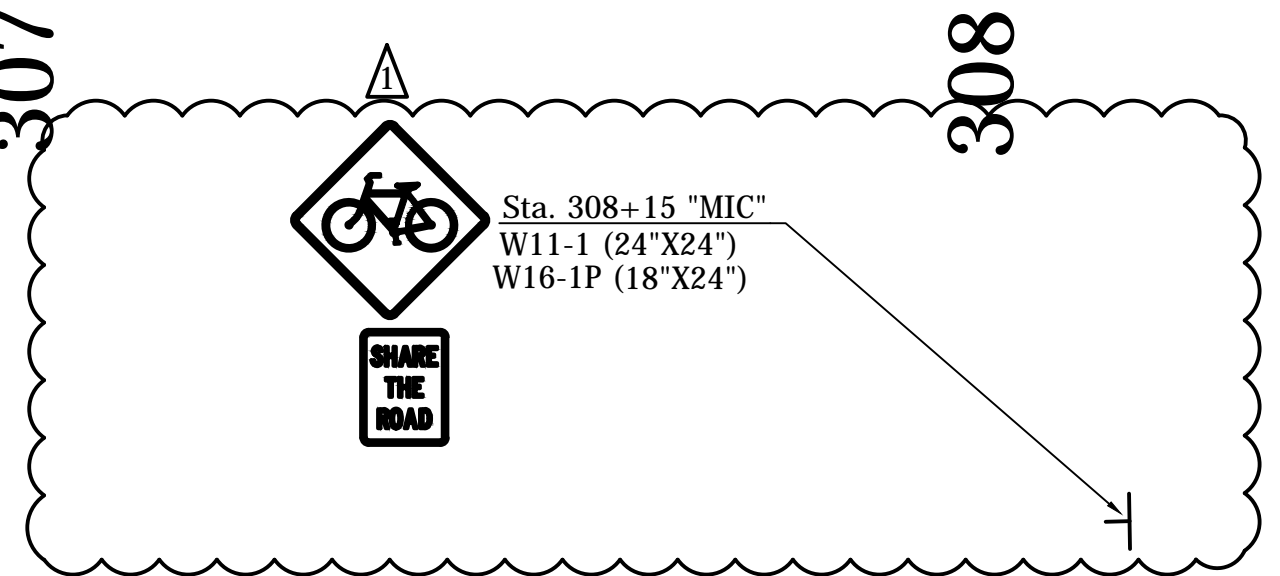
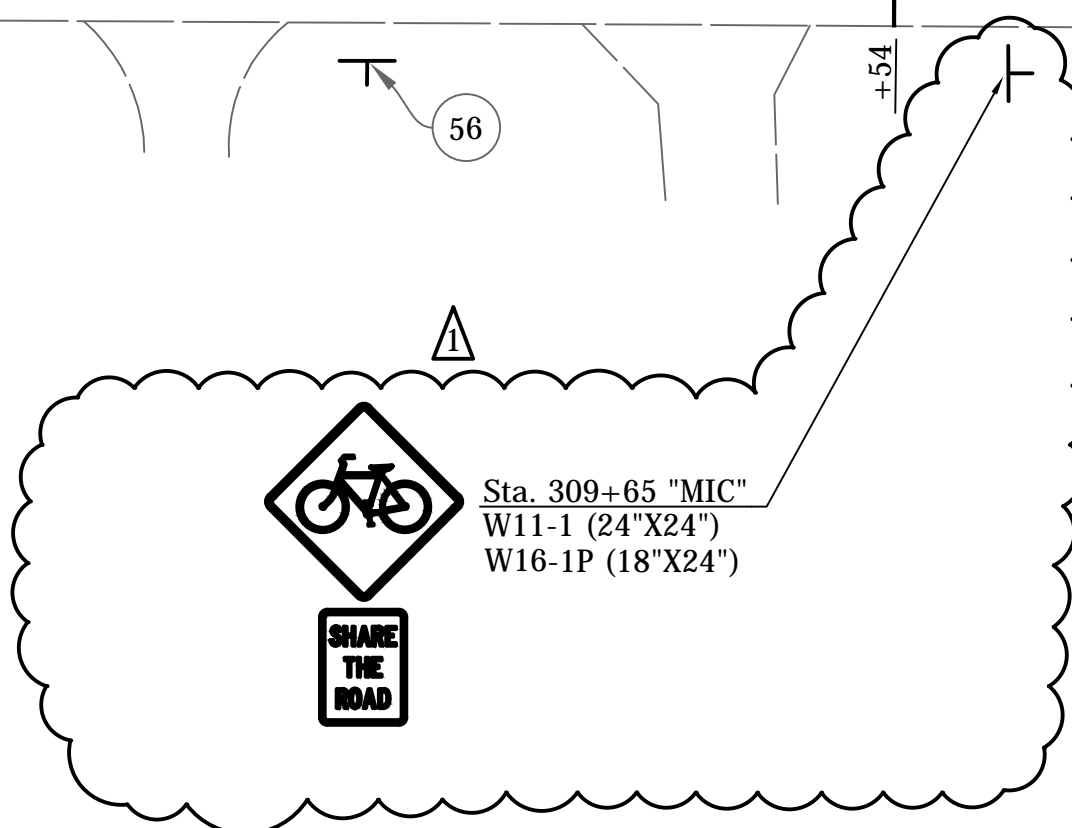
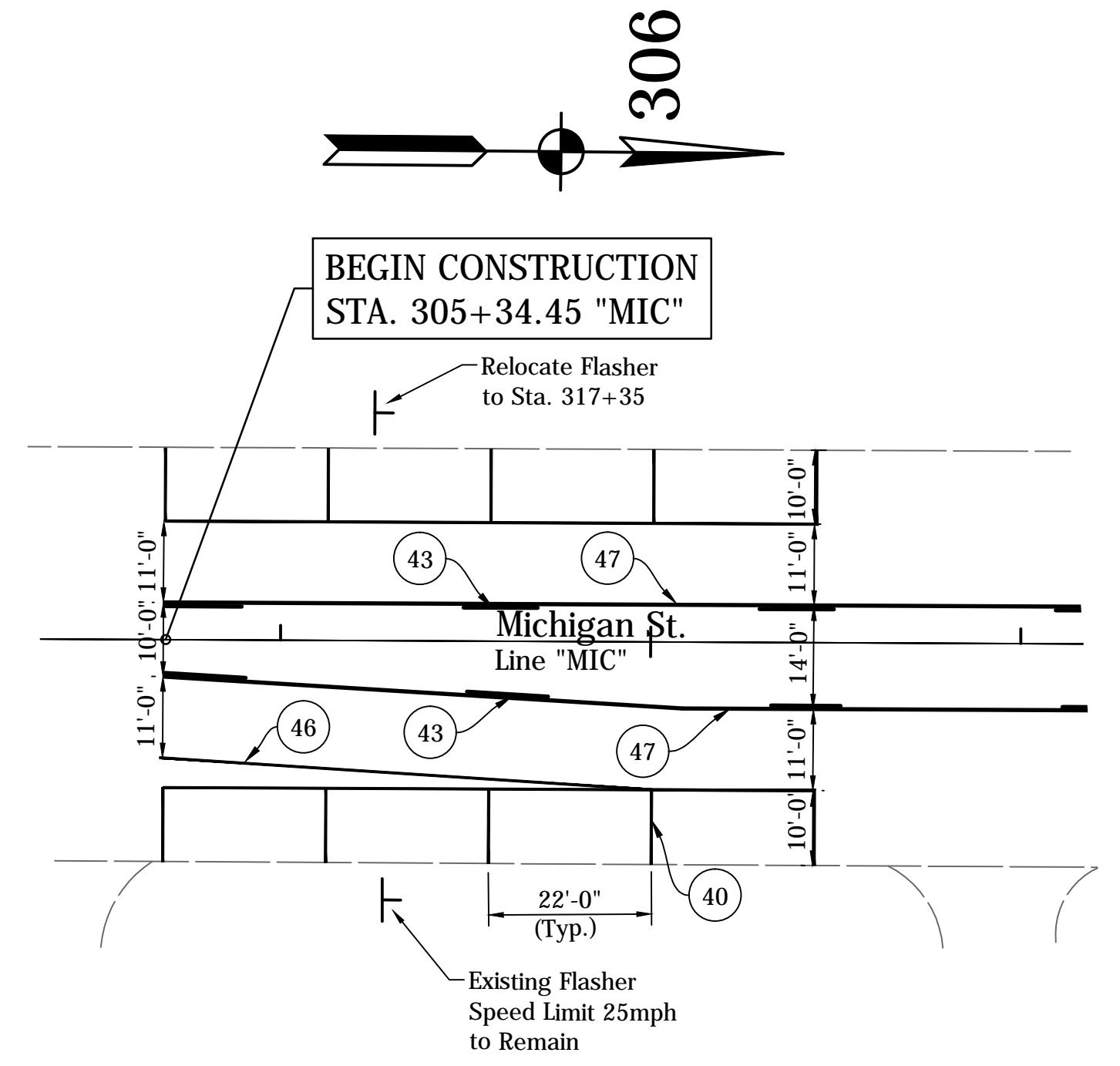
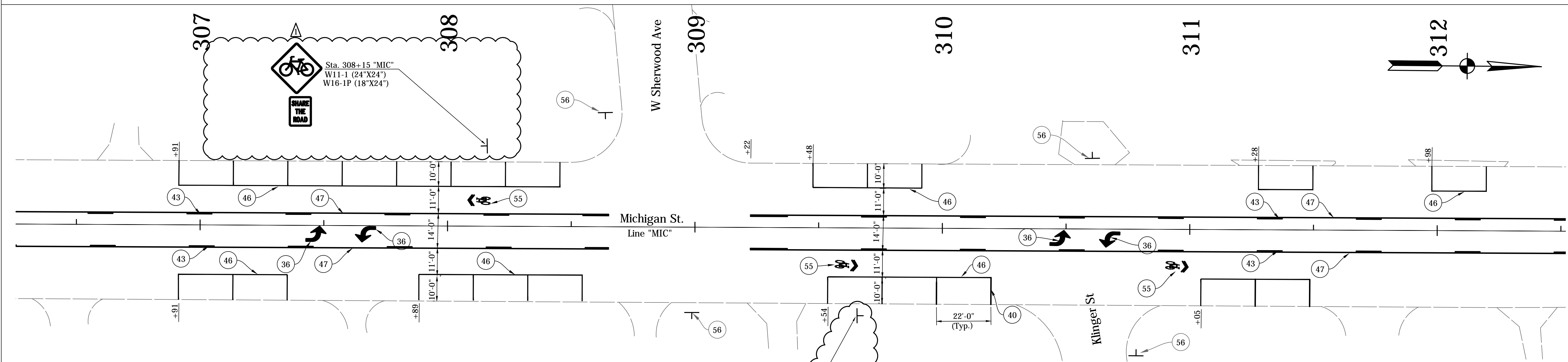
PAVEMENT MARKINGS & SIGNING DETAILS

MAIN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	21 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM South\
 FILE:15-3329 PM Michigan at south.dwg
 DIMSCALE: 1"=20'
 PLOTTED BY: BOURGAIN
 DATE:01/15/2016 4:05pm

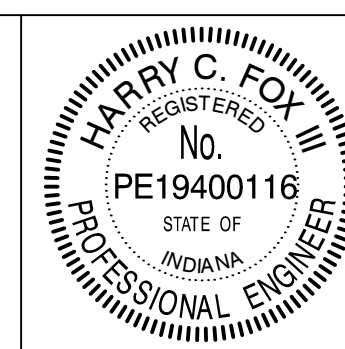
NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MIC", Except as Noted.



LEGEND

- 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
- 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
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- 45 Line, Thermoplastic, Solid, White, 6 in.
- 46 Line, Thermoplastic, Solid, White, 4 in.
- 47 Line, Thermoplastic, Solid, Yellow, 4 in.
- 55 Pavement Message Markings, Thermoplastic, Share the Road
- 56 Sign, Sheet, and Supports, Remove (One Way Sign, Other Signs & Supports to Remain)
- 58 Sign, Sheet, Relocate
- 59 Sign, Sheet, Remove & Reset
- 72 Transverse Markings, Thermoplastic, Crosswalk Line, White, 6 in.

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs

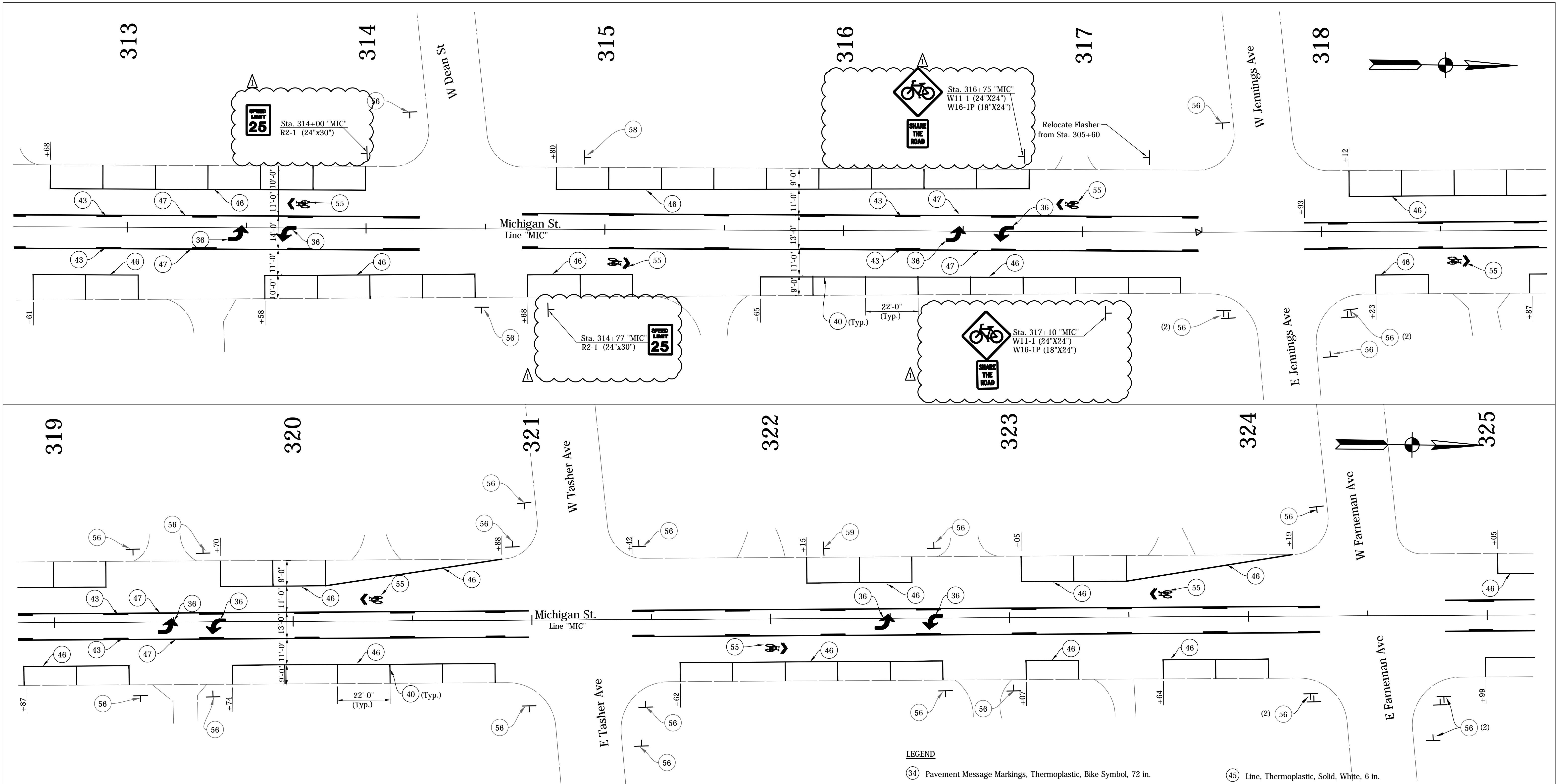


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND
PAVEMENT MARKING & SIGNING DETAILS
MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	22 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

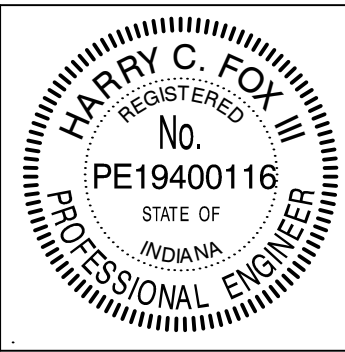
DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM_South\
 FILE: 15-3329 PM Michigan at south.dwg
 DIMSCALE: 1/8"=1'-0"
 PLOTTED BY: BOURGAIN
 DATE: 01/15/2016 4:05pm



NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MIC", Except as Noted.

- LEGEND**
- (34) Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
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DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs

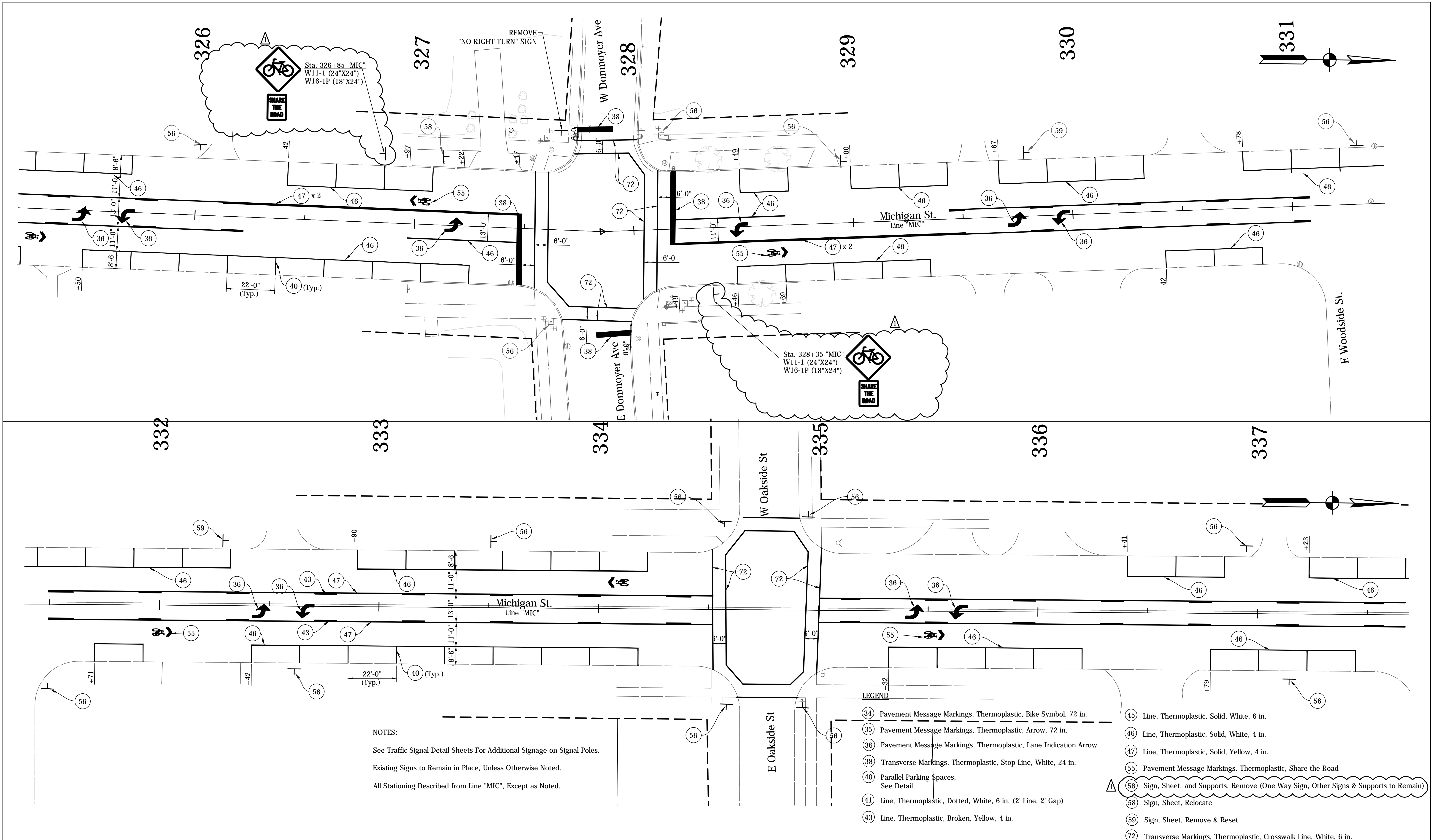


RECOMMENDED FOR APPROVAL: *Harry Fox* (Signature)
 DESIGN ENGINEER
 DATE: 01/07/2016
 DESIGNED: HCF III
 DRAWN: BRD
 CHECKED: JG
 CHECKED: JG

CITY OF SOUTH BEND
PAVEMENT MARKING & SIGNING DETAILS
 MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	23 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

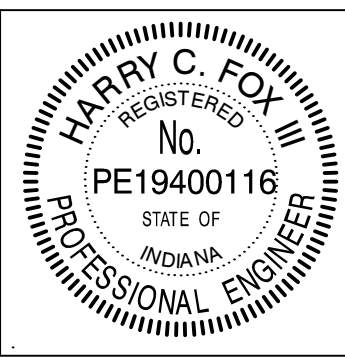
DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM_South\
 FILE:15-3329 PM Michigan at south.dwg
 DIMSCALE: 1"=20'
 PLOTTED BY: BOURGAIN
 DATE:07/15/2016 4:06pm



NOTES:
 See Traffic Signal Detail Sheets For Additional Signage on Signal Poles.
 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MIC", Except as Noted.

- LEGEND**
- 34 Pavement Message Markings, Thermoplastic, Bike Symbol, 72 in.
 - 35 Pavement Message Markings, Thermoplastic, Arrow, 72 in.
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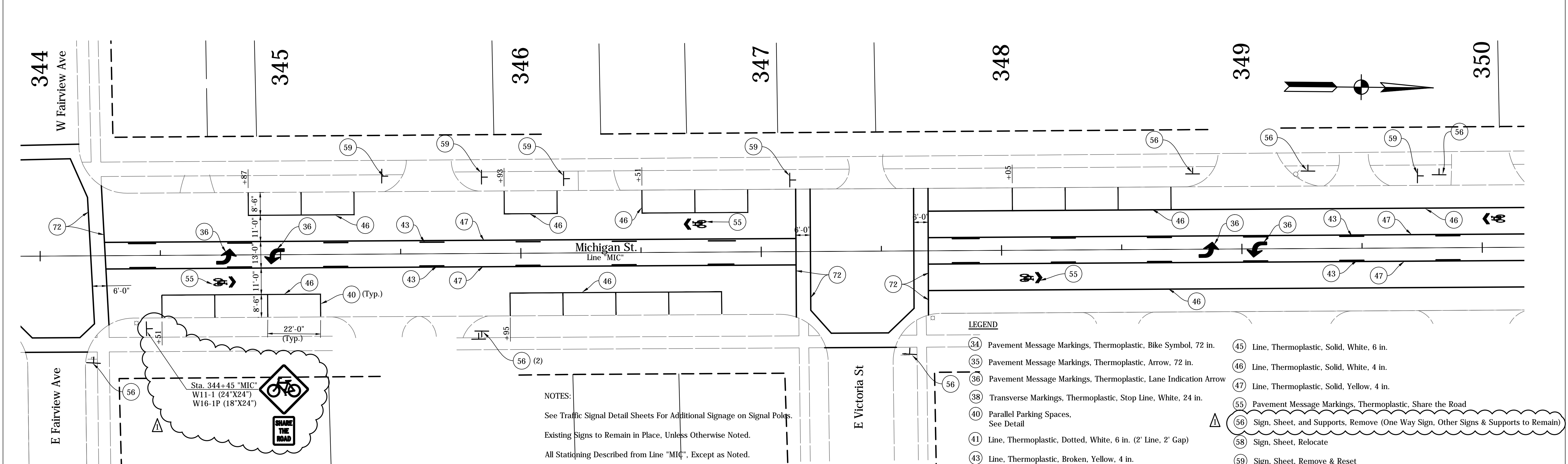
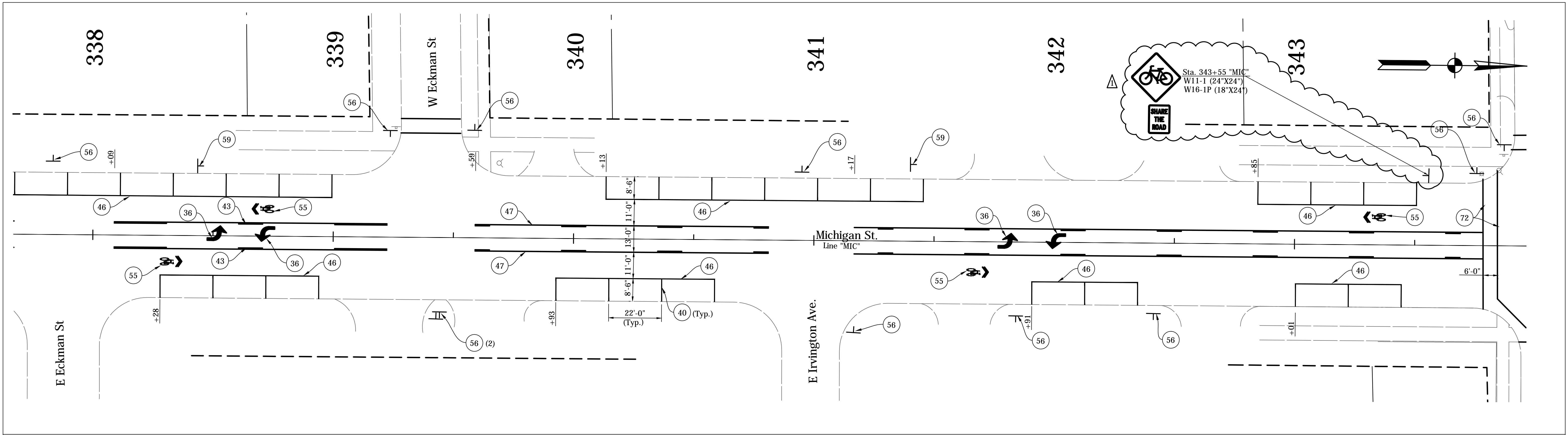
DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND
PAVEMENT MARKING & SIGNING DETAILS
 MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	24 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

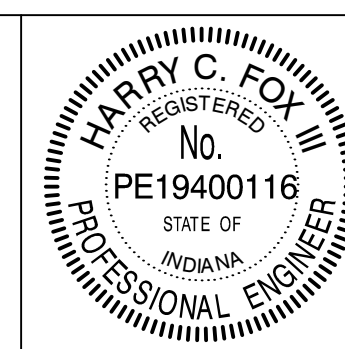


NOTES:
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 Existing Signs to Remain in Place, Unless Otherwise Noted.
 All Stationing Described from Line "MIC", Except as Noted.

- LEGEND**
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DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM_South\
 FILE: 15-3329 PM Michigan at south.dwg
 DIMSCALE: 1/8"=1'-0"
 PLOTTED BY: BOURGAIN
 DATE: 01/15/2016 4:06pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs

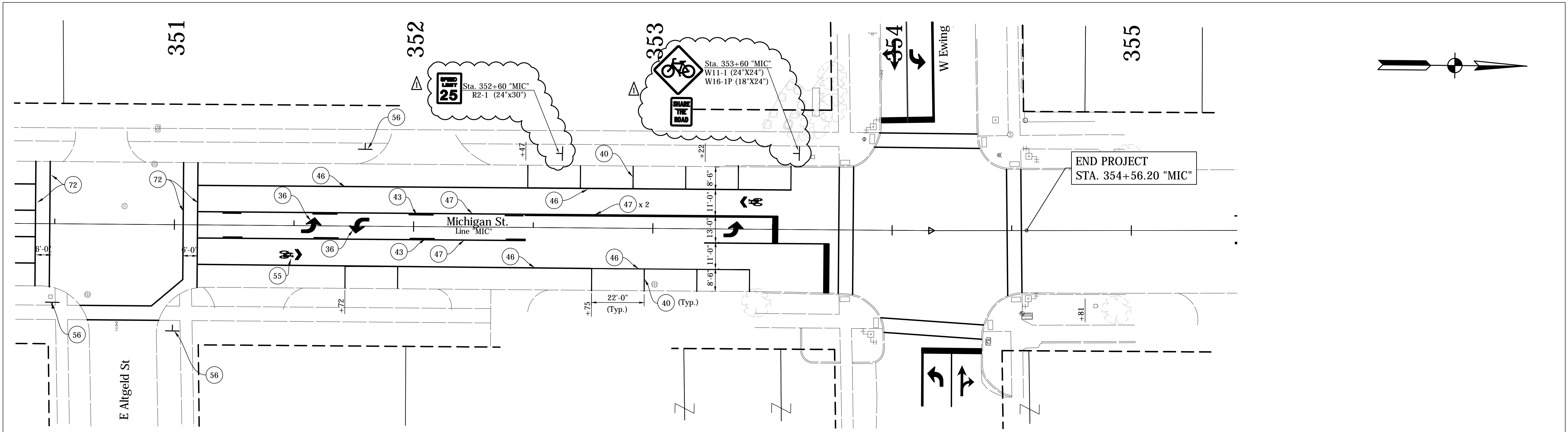


RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	DESIGN ENGINEER	01/07/2016	DATE
DESIGNED:	HCF III	DRAWN:	BRD	
CHECKED:	JG	CHECKED:	JG	

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS
MICHIGAN STREET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	25 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)



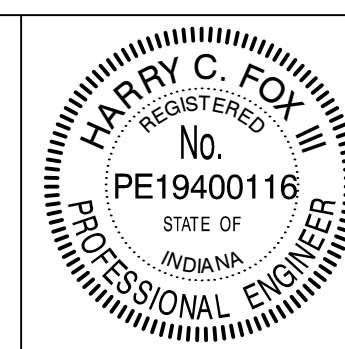
NOTES:
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 All Stationing Described from Line "MIC", Except as Noted.

LEGEND

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DIRECTORY: F:\2015\15-3329 South Bend 2-Way Conversion\DRAWINGS\PAVEMENT MARKING\PM_South\
 FILE:.....15-3329 PM Michigan at south.dwg
 DIMSCALE: 1"=20'
 PLOTTED BY: BOURGAIN
 DATE: 01/15/2016 4:06pm

DATE	REVISION
1/15/2016	Rev 1: Revise Legend & Add Signs



RECOMMENDED FOR APPROVAL	<i>Harry Fox</i>	01/07/2016
DESIGNED:	HCF III	DATE
DRAWN:	BRD	
CHECKED:	JG	
CHECKED:	JG	

CITY OF SOUTH BEND

PAVEMENT MARKING & SIGNING DETAILS
MICHIGAN STREET

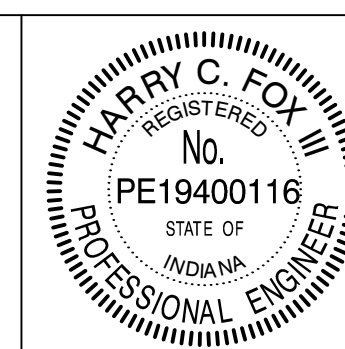
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	26 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

DIRECTORY... F:\2015\15-3229 South Bend 2 Way Conversion\DRAWINGS\TABLES
FILE... 15-3229 SOUTH.BVD
DIMS SCALE... 1:50
DATE... 15-09-2016 - 4:09pm

STATION	LOCATION			PERIMETER PROTECTION		SEDIMENT BASIN		SLOPE DRAIN		RIPRAP		STRAW BALES		DITCH CHECK		TEMPORARY INLET PROTECTION		REMARKS
	LEFT	MEDIAN	RIGHT	LFT	EACH	LFT	CYS	LFT	CYS	LFT	CYS	LFT	CYS	EACH	EACH	EACH	EACH	
LINE "MAI"																		
653+61.1	X																1	
653+99.5	X																1	
LINE "MIC"																		
327+71.6	X																1	
327+71.9			X														1	
327+95.6			X														1	
328+04.4	X																1	
334+72.8	X																1	
334+43.5			X														1	
343+70.9	X																1	
343+73.7			X														1	
347+04.2			X														1	
350+63.9			X														1	
350+91.6	X																1	

STATION	LOCATION			PERIMETER PROTECTION		SEDIMENT BASIN		SLOPE DRAIN		RIPRAP		STRAW BALES		DITCH CHECK		TEMPORARY INLET PROTECTION		REMARKS
	LEFT	MEDIAN	RIGHT	LFT	EACH	LFT	CYS	LFT	CYS	LFT	CYS	LFT	CYS	EACH	EACH	EACH	EACH	

DATE	REVISION



RECOMMENDED FOR APPROVAL: *Harry Fox*, DESIGN ENGINEER, 01/07/2016 DATE

DESIGNED: HCF III DRAWN: BRD

CHECKED: JG CHECKED: JG

CITY OF SOUTH BEND

EROSION CONTROL TABLE

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
	DESIGNATION
	N/A
SURVEY BOOK	SHEETS
N/A	27 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADIUS	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			EXCAVATION	PCCP MATERIALS			HMA MATERIALS					PERMEABLE PAVEMENT	MILLING ASPHALT, 1.5"	MILLING ASPHALT, 2.5"	MILLING ASPHALT, 3.5"	MILLING ASPHALT, 4.5"	MILLING ASPHALT, VARIABLE DEPTH	6" PCCP APPROACH	8" PCCP APPROACH	JOINT ADHESIVE, SURFACE	LIQUID ASPHALT SEALANT	ASPHALT FOR TACK COAT	6" COMPACTED AGGREGATE FOR BASE NO. 53	D-1 CONTRACTION JOINT	STONE, NO. 8	REMARKS								
						COMPACTED AGGREGATE BASE	HMA	CONCRETE		10 IN	10 IN	4 IN	LBS. PER SYD.																											
													165																											
										CUT	FILL	SYS	SYS	SYS	TON	TON	TON																TON	TON	SYS.	SYS.	SYS.	SYS.	SYS.	SYS.
Line "MAI"																																								
603+49.32 to 654+28.65	Mainline	48.0	5,079																																					
Line "MIC"																																								
305+34.45 to 354+56.20	Mainline	52.0	4,922																																					
TOTALS																																								

DATE	REVISION
1/15/2016	Added Sheet

RECOMMENDED FOR APPROVAL:	1/15/2016 DATE
DESIGNED: _____ MRR	DRAWN: _____ JRG
CHECKED: _____ PKW	CHECKED: _____ PKW

CITY OF SOUTH BEND SUMMARY OF QUANTITIES AND APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	27-1 of 27
CONTRACT	PROJECT
N/A	115-019 (DIV A)

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