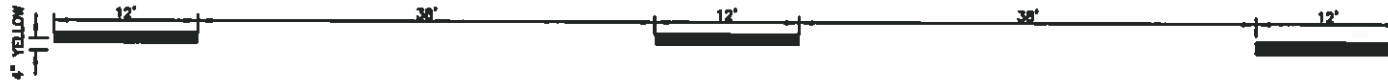


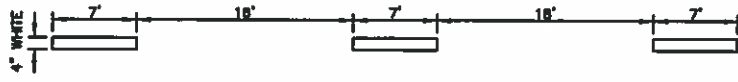
1 Center Line, Posted Speed <=40 mph



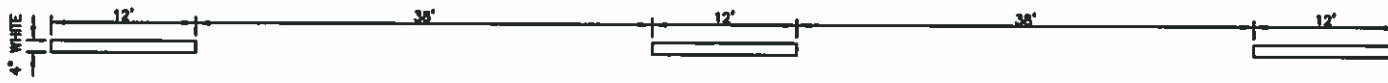
2 Center Line, Posted Speed >=45 mph



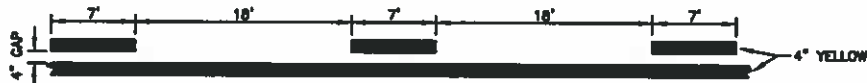
3 Lane Line, Posted Speed <=40 mph



4 Lane Line, Posted Speed >=45 mph



5 Center Line, No Passing Zone, One Direction, Posted Speed <=40 mph



6 Center Line, No Passing Zone, One Direction, Posted Speed >=45 mph



- NOTES:**
1. BASIC COLOR RULE: WHITE LINES SEPARATE TRAFFIC IN THE SAME DIRECTION; YELLOW LINES SEPARATE TRAFFIC IN OPPOSING DIRECTIONS.
 2. BLACK MARKINGS MAY BE USED IN COMBINATION WITH WHITE MARKINGS FOR BROKEN LINES WHERE A LIGHT COLORED PAVEMENT DOES NOT PROVIDE SUFFICIENT CONTRAST.



- SIGNATURES -	
Drawn By: [Signature]	Checked By: [Signature]
Scale: 1/2"=1'-0"	Checked By: [Signature]
Date: 12/9/16	Approved By: [Signature]

- BEST TITLE -
Standard Traffic Stripes Details

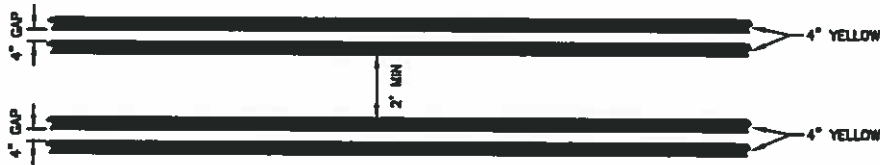
12/9/2016

PROFESSIONAL ENGINEER
JOSHUA E. BINK
12542
IDAHO BOARD OF PROFESSIONAL ENGINEERS
TS-1112.01

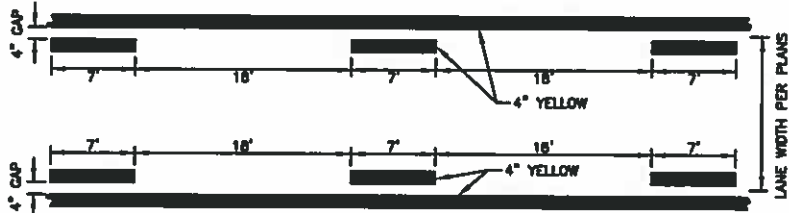
7 Center Line, No Passing Zone, Two Directions



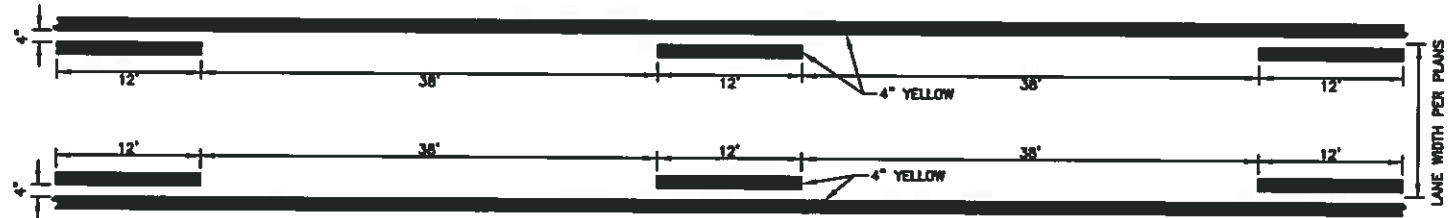
8 Striped Median Island



9 Two-Way Left Turn Lane, Posted Speed <= 40 mph



10 Two-Way Left Turn Lane, Posted Speed >= 45 mph



NO.	DATE	BY	REVISION



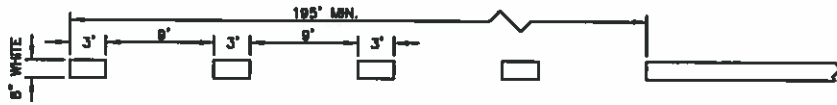
• SIGNATURES •		• CHECK TITLES •	
Drawn By: Andrew Sturdy	Checked By: Andrew Sturdy	Standard Traffic	Stripes Details
Design By: Andrew Sturdy	Approved By: Steve Olson		

12/9/2016

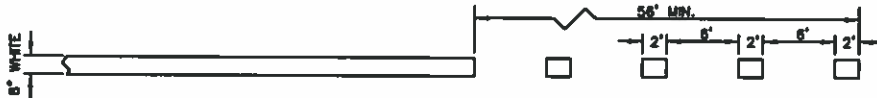


TS-1112.02

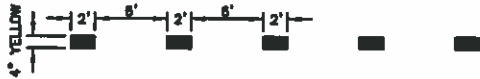
11 Mandatory Lane Drop - "Elephant Tracking"



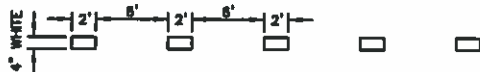
12 Bike Lane at Intersection



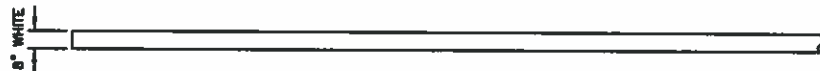
13 Lane Line Extension Through Intersection - "Yellow Cat Track"



14 Lane Line Extension Through Intersection - "White Cat Track"



15 Channelizing Line/Bike Lane Line



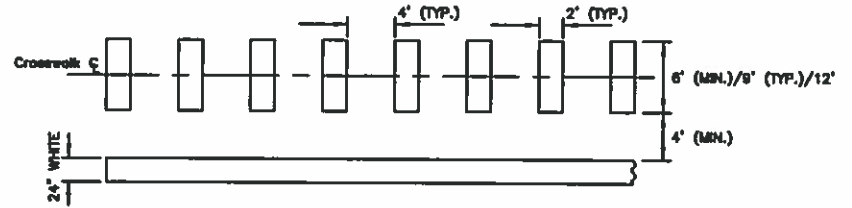
16 Left Edgeline for Divided Roadway



17 Right Edgeline



18 Crosswalk (Note: Crosswalk is centered on centerline of pedestrian ramps; bars are installed parallel to the direction of travel.)



19 Stop Bar

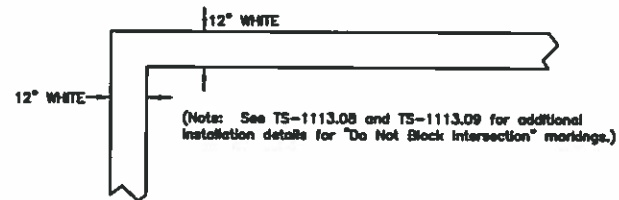
20 Roundabout Entry Marking



21 Lane Line Extension Through Intersection - "Double Yellow Cat Track"



22 "Do Not Block Intersection" Markings



▲			
▲			
▲			
▲	W/L	20	Add details to end of
▲	SO	27	completes



Order No.	370	Drawn By	Justin Gandy
Date	12/2/14	Design By	Justin Gandy
Title	TS-1112.03	Approved By	Steve Gandy

Sheet Title	Standard Traffic Stripe Details
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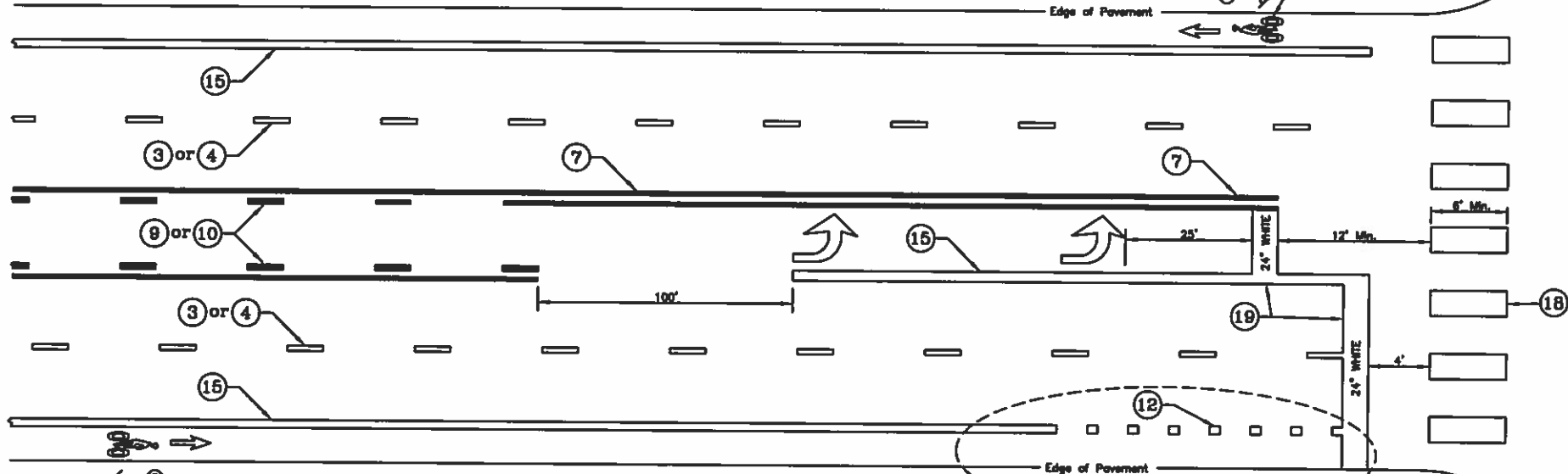
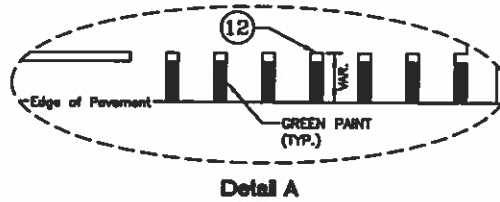
12/9/2016



TS-1112.03

Legend

(XX) Striping Detail Number



SEE DETAIL A FOR OPTIONAL BIKE LANE STRIPING DETAIL

NOTES:

1. SEE ACHD STANDARD DETAILS TS-1113 FOR STANDARD LANE USE PAVEMENT MARKING DETAILS.
2. BIKE LANE SYMBOL SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND THEN APPROXIMATELY EVERY 500 FEET.
3. BIKE LANE SIGNS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. R7-9 SIGNS SHALL BE MOUNTED AT A 45 DEGREE ANGLE TO THE ROADWAY. R3-17 SIGNS, INSTALLED AFTER MAJOR INTERSECTIONS, SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.

12/9/2016



NO.	DATE	BY	REVISIONS
11/15	2011	ACHD	Added green bike lane option
07/10	2011	ACHD	Various changes
03/08	2007	ACHD	Original

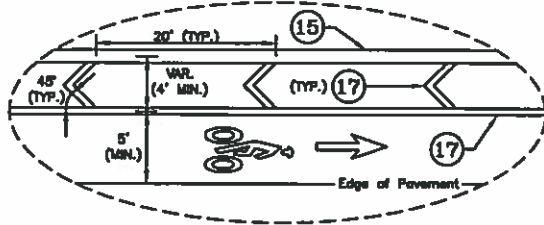


SIGNATURES	
_____ Designer: JTB	_____ Reviewer: JTB
_____ Checker: JTB	_____ Reviewer: JTB
_____ Printer: JTB	_____ Reviewer: JTB

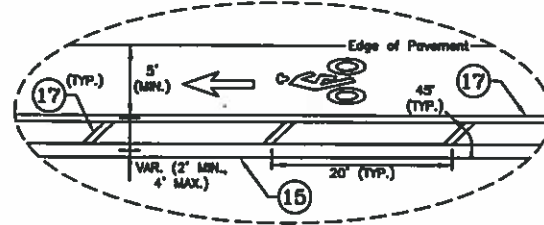
Standard Traffic Stripe Details -
Typical Intersection Leg

TS-1112.04

Ada County Highway District



Detail A



Detail B

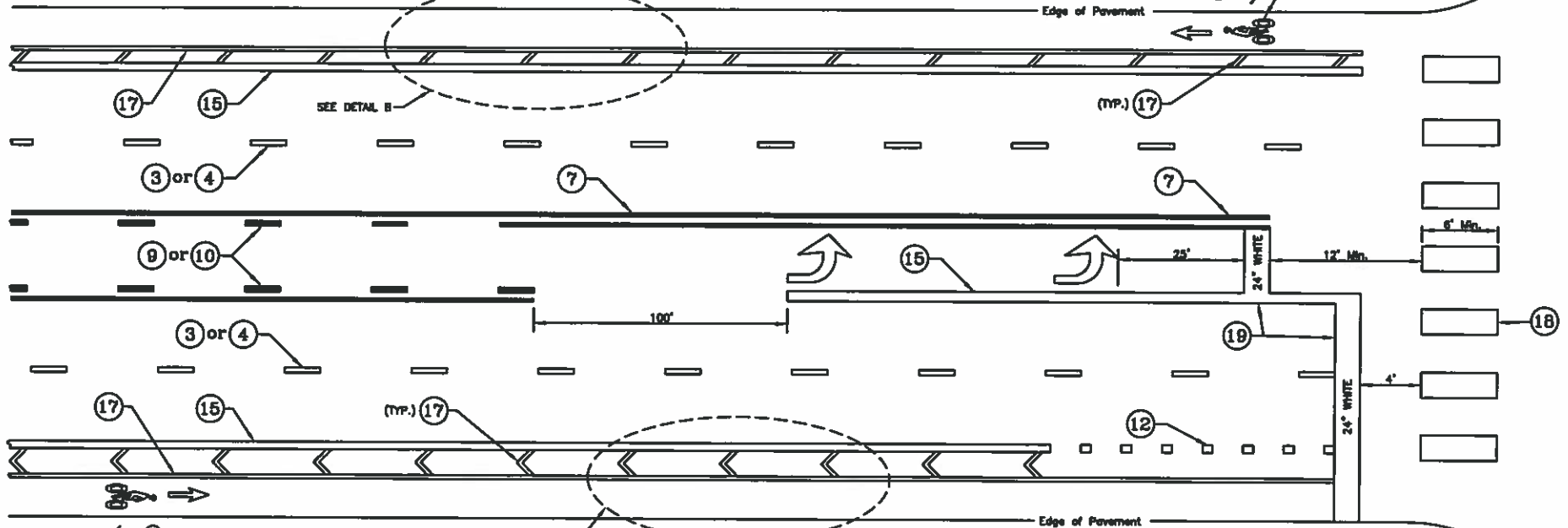


R3-17
18" X 24"



R7-9
12" X 18"

SEE NOTE 2



R7-9
12" X 18"

Typical Intersection Leg with Buffered Bike Lanes

Legend

XXX Striping Detail Number

NOTES:

- SEE ACHD STANDARD DETAILS TS-1113 FOR STANDARD LANE USE PAVEMENT MARKING DETAILS.
- BIKE LANE SYMBOL SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND THEN APPROXIMATELY EVERY 500 FEET.
- BIKE LANE SIGNS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. R7-9 SIGNS SHALL BE MOUNTED AT A 45 DEGREE ANGLE TO THE ROADWAY. R3-17 SIGNS, INSTALLED AFTER MAJOR INTERSECTIONS, SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.
- FOR BIKE LANE BUFFERS, USE CHEVRON MARKINGS FOR WIDTHS FOUR (4) FEET AND GREATER. USE HATCH MARKS POINTED UP AND TO THE LEFT (AS VIEWED BY SAME DIRECTION TRAFFIC) FOR BUFFER WIDTHS GREATER THAN TWO (2) FEET AND LESS THAN FOUR (4) FEET. BUFFER WIDTHS LESS THAN TWO (2) FEET SHOULD NOT BE INSTALLED.

12/9/2016



NO.	DATE	BY	REVISION/DESCRIPTION



DESIGNER		CHECKER	
Drawn By: Andrew Smith	Checked By: Andrew Smith	Drawn By: Andrew Smith	Checked By: Andrew Smith
Date: 12/15/16		Date: 12/15/16	
File: ts-1112.05			

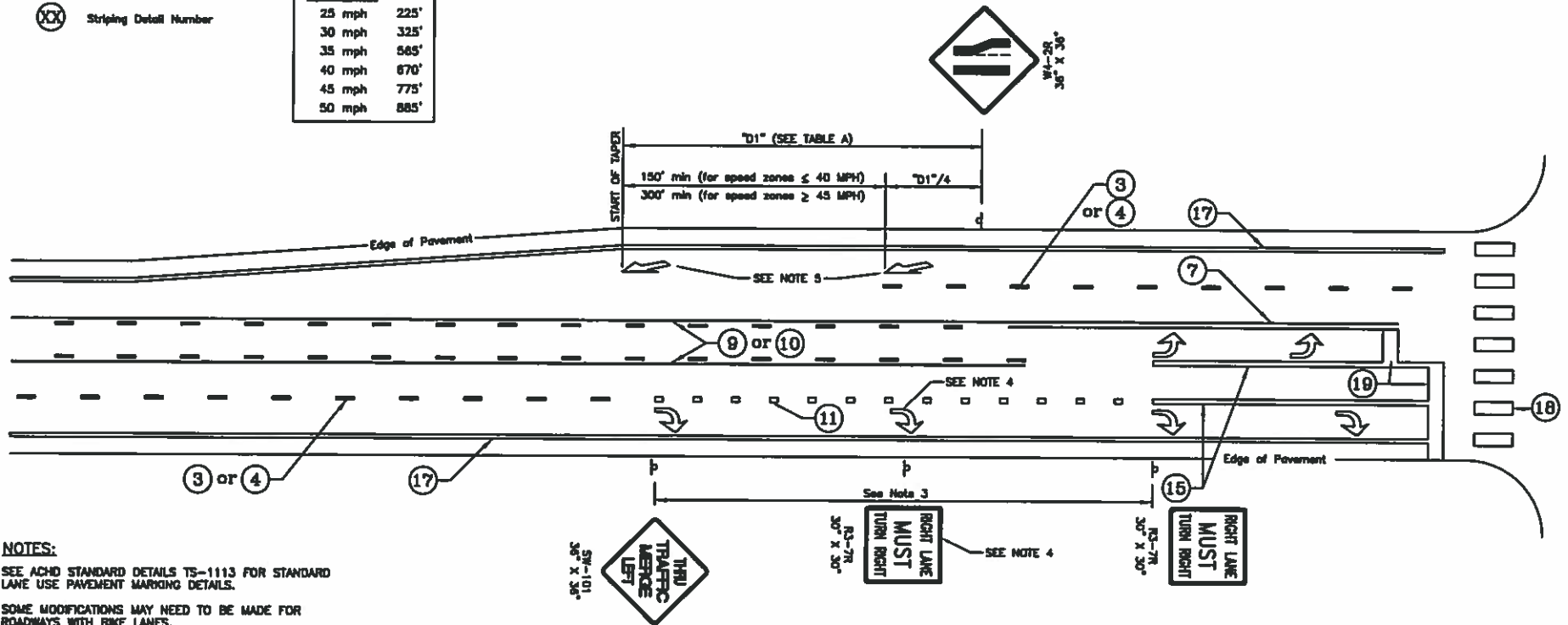
Standard Traffic Stripe Details -
Buffered Bike Lanes

TS-1112.05

Legend

Ⓝ Stripping Detail Number

Table A	
Roadway Speed Limit	D1'
25 mph	225'
30 mph	325'
35 mph	565'
40 mph	670'
45 mph	775'
50 mph	885'



NOTES:

- SEE ACHD STANDARD DETAILS TS-1113 FOR STANDARD LANE USE PAVEMENT MARKING DETAILS.
- SOME MODIFICATIONS MAY NEED TO BE MADE FOR ROADWAYS WITH BIKE LANES.
- ADVANCE PLACEMENT OF WARNING SIGNS SHALL BE BASED ON THE CURRENT ADOPTED EDITION OF THE MUTCD.
- ADDITIONAL RIGHT TURN ARROWS AND R3-7R SIGNS MAY BE INSTALLED WITHIN THE TRAP LANE. REFER TO PLAN SHEETS FOR DETAILS.
- A MINIMUM OF TWO MERGE ARROWS SHALL BE REQUIRED FOR A DROP LANE CONDITION. ADDITIONAL ARROWS MAY BE INSTALLED FOR HIGHER SPEED ROADWAYS. REFER TO PLAN SHEETS FOR DETAILS.

**Typical Drop/Trap Lane
Signing and Striping**

12/9/2016

REV	DATE	BY	DESCRIPTION
1	12/13/16	288	Various changes
2	7/16/16	288	Various changes
3	4/16/16	288	Various changes
4	8/23/15	87	REVISIONS



DESIGNER		CHECKER	
Drawn By	Reviewed By	Checked By	Approved By
Date: 12/21/16	Drawn By:	Checked By:	Approved By:
File: TS-1112.06.dwg			

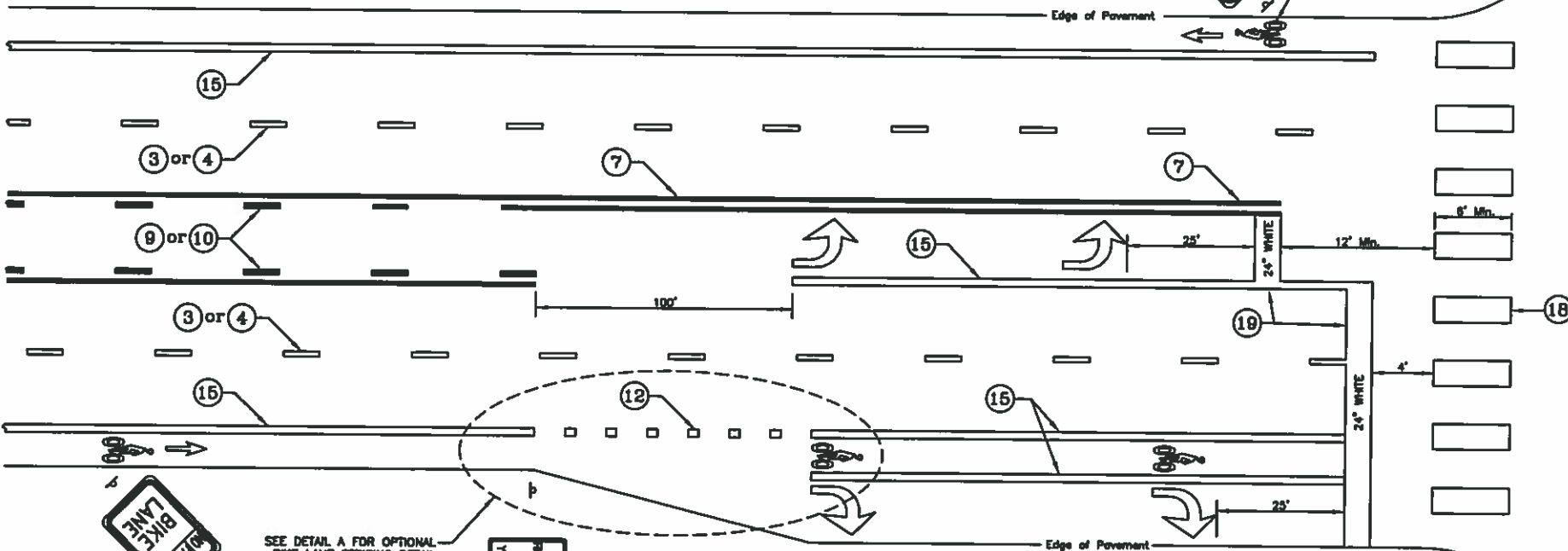
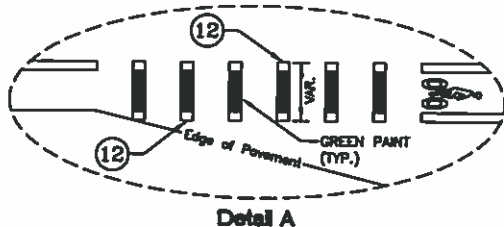
Standard Traffic Stripe Details -
Typical Drop/Trap Lane



THOMAS E. BIAL, P.E.
TS-1112.06

Legend

XX Stripping Detail Number



SEE DETAIL A FOR OPTIONAL BIKE LANE STRIPING DETAIL.



NOTES:

1. SEE ACHD STANDARD DETAILS TS-1113 FOR STANDARD LANE USE PAVEMENT MARKING DETAILS.
2. BIKE LANE SYMBOLS SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND THEN APPROXIMATELY EVERY 500 FEET.
3. BIKE LANE SIGNS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. R7-9 SIGNS SHALL BE MOUNTED AT A 45 DEGREE ANGLE TO THE ROADWAY. R3-17 SIGNS, INSTALLED AFTER MAJOR INTERSECTIONS, SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.
4. ADD SUPPLEMENTAL RIGHT AND LEFT TURN ARROWS IF TURN BAY LENGTHS EXCEED 200'.

12/9/2016



▲			
▲	12/15	JEB	Added green bike lane option
▲	07/15	JEB	Various changes
NO	3/25	BT	



- SIGNATURES -			
Drawn By	Joshua Bink	Checked By	Joshua Bink
Date	04/26/16	Designed By	Joshua Bink
File	12-1112.07.rvt	Approved By	Steve Davis

- CROSS TITLE -
Standard Traffic Stripe Details -
Typical Intersection W/Right Turn Lane and Bike Lane

STANDARD DETAIL NO.
TS-1112.07
Sheet 7 of 12

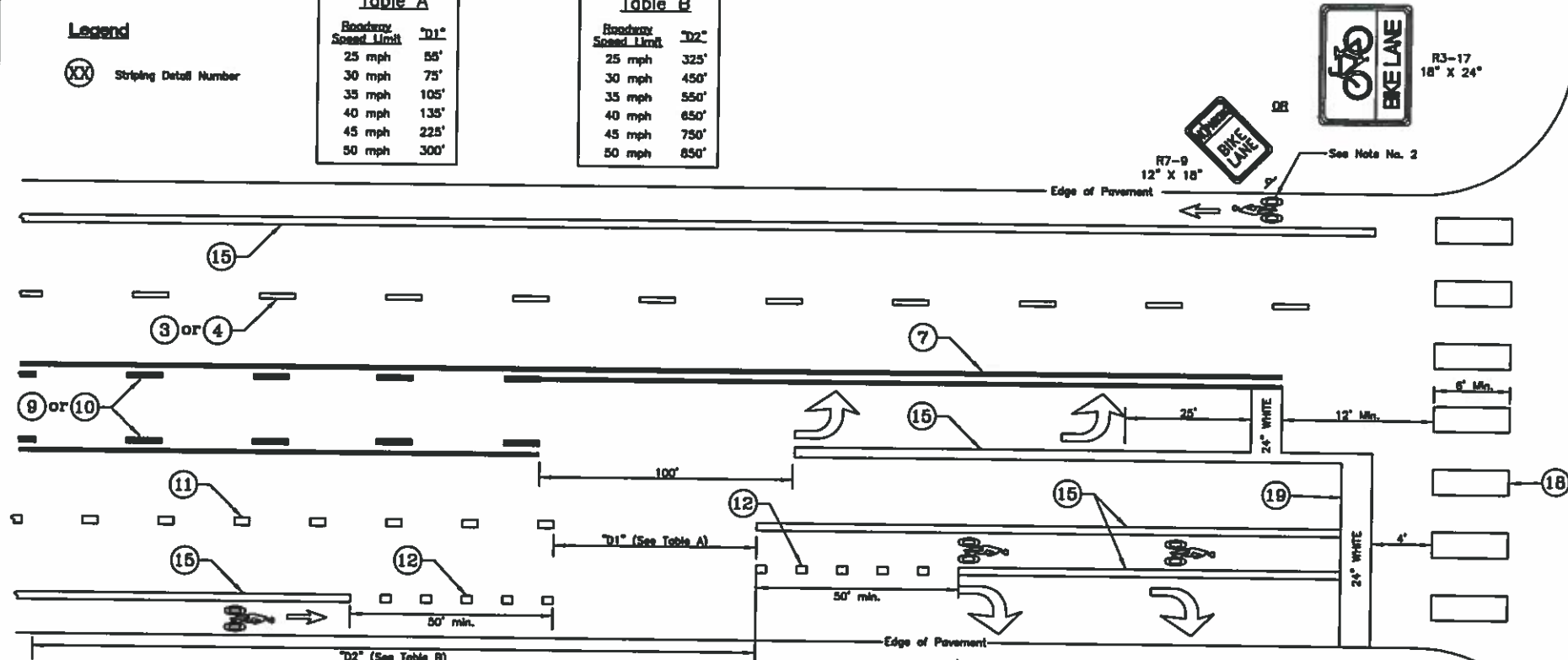
Ada County Highway District

Legend

(XX) Striping Detail Number

Table A	
Roadway Speed Limit	"D1"
25 mph	55'
30 mph	75'
35 mph	105'
40 mph	135'
45 mph	225'
50 mph	300'

Table B	
Roadway Speed Limit	"D2"
25 mph	325'
30 mph	450'
35 mph	550'
40 mph	650'
45 mph	750'
50 mph	850'



NOTES:

- SEE ACHD STANDARD DETAIL TS-1113 FOR STANDARD LANE USE PAVEMENT MARKING DETAILS.
- BIKE LANE SYMBOL SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND THEN APPROXIMATELY EVERY 500 FEET.
- BIKE LANE SIGNS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. R7-9 SIGNS SHALL BE MOUNTED AT A 45 DEGREE ANGLE TO THE ROADWAY. R3-17 SIGNS, INSTALLED AFTER MAJOR INTERSECTIONS, SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.
- MINIMUM ADVANCE PLACEMENT DISTANCE (D2) OF WARNING SIGNS SHALL BE BASED ON THE CURRENT ADOPTED EDITION OF THE MUTCD.

Typical Intersection Leg With Right Turn Drop Lane and Bike Lane

NO.	DATE	BY	REVISIONS
1	08/01	CH	Original design
2	07/18	CH	Original design
3	04/29	BY	REVISIONS



DESIGNER		CHECKER	
Design By	Andrew Rank	Design By	Andrew Rank
Date	10/15/09	Design By	Andrew Rank
Title	TS-1112.08.000	Approved By	Stuart Smith

Standard Traffic Stripe Details - Right Turn Drop Lane w/Bike Lane

12/9/2016

TS-1112.08
Sheet 8 of 12

Ada County Highway District

TABLE 1 - MINIMUM TAPER LENGTHS		OFFSET (FEET)													
SPEED LIMIT (MPH)	TAPER = WS ² /60														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
20	10	15	20	30	35	40	50	55	60	70	75	80	90	95	
25	15	25	35	45	55	65	75	85	95	105	115	125	140	150	
30	15	30	45	60	75	90	105	120	135	150	165	180	195	210	
35	25	45	65	85	105	125	145	165	185	205	225	245	270	290	
40	30	55	80	110	135	160	190	215	240	270	295	320	350	375	
45	45	90	135	180	225	270	315	360	405	450	495	540	585	630	
50	50	100	150	200	250	300	350	400	450	500	550	600	650	700	
55	55	110	165	220	275	330	385	440	495	550	605	660	715	770	

Legend

⊙ Stripping Detail Number

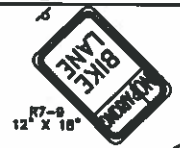
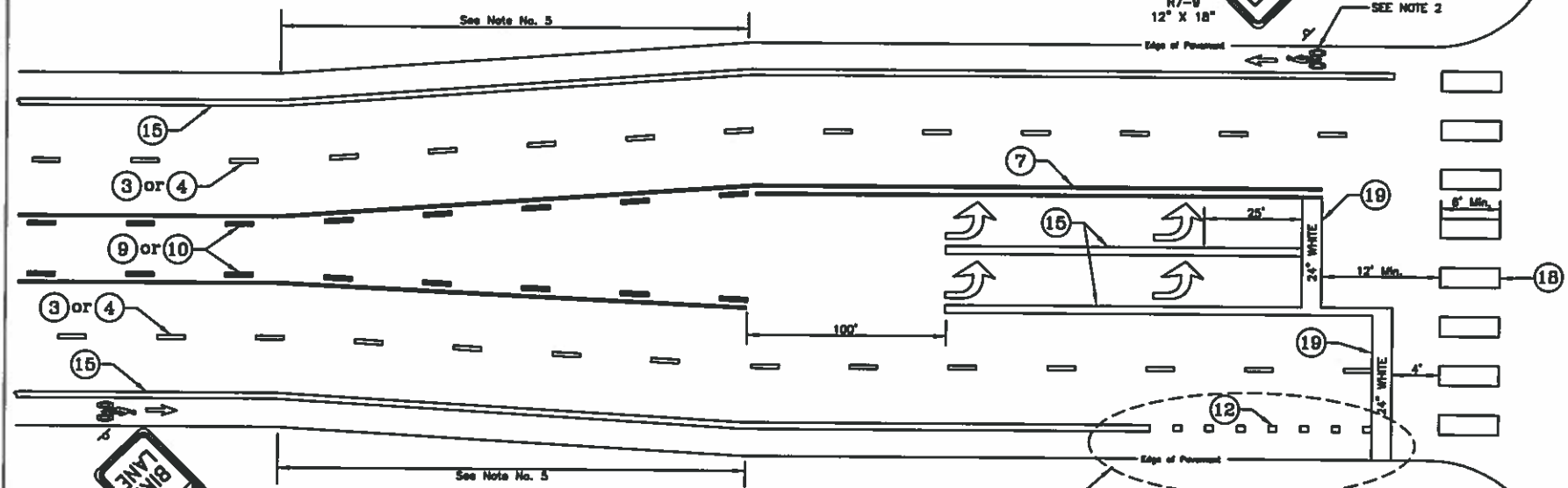


R3-17
18" x 24"

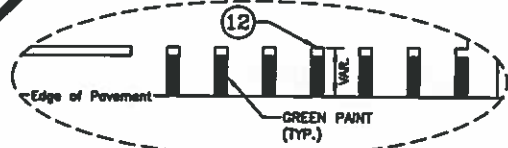


R7-9
12" x 18"

SEE NOTE 2



R7-9
12" x 18"



Detail A

Typical Intersection Leg With Dual Left Turns

SEE DETAIL A FOR OPTIONAL BIKE LANE STRIPING DETAIL

NOTES:

1. SEE ACHD STANDARD DETAIL TS-1113 FOR STANDARD LANE USE PAVEMENT MARKING DETAILS.
2. BIKE LANE SYMBOL SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION AND THEN APPROXIMATELY EVERY 500 FEET.
3. BIKE LANE SIGNS MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER. R7-9 SIGNS SHALL BE MOUNTED AT A 45 DEGREE ANGLE TO THE ROADWAY. R3-17 SIGNS, INSTALLED AFTER MAJOR INTERSECTIONS, SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.
4. ADD SUPPLEMENTAL RIGHT AND LEFT TURN ARROWS IF TURN BAY LENGTHS EXCEED 200'.
5. LEFT TURN BAY TAPER LENGTHS SHALL BE DETERMINED BASED ON INFORMATION PROVIDED IN TABLE 1 ON THIS SHEET.

15/16	020	Added green bike lane system
04/2008	07	PROPOSED



SIGNATURES	
Drawn By: Andrea Smith	Checked By: Andrea Smith
Design By: Andrea Smith	Approved By: Steve Smith

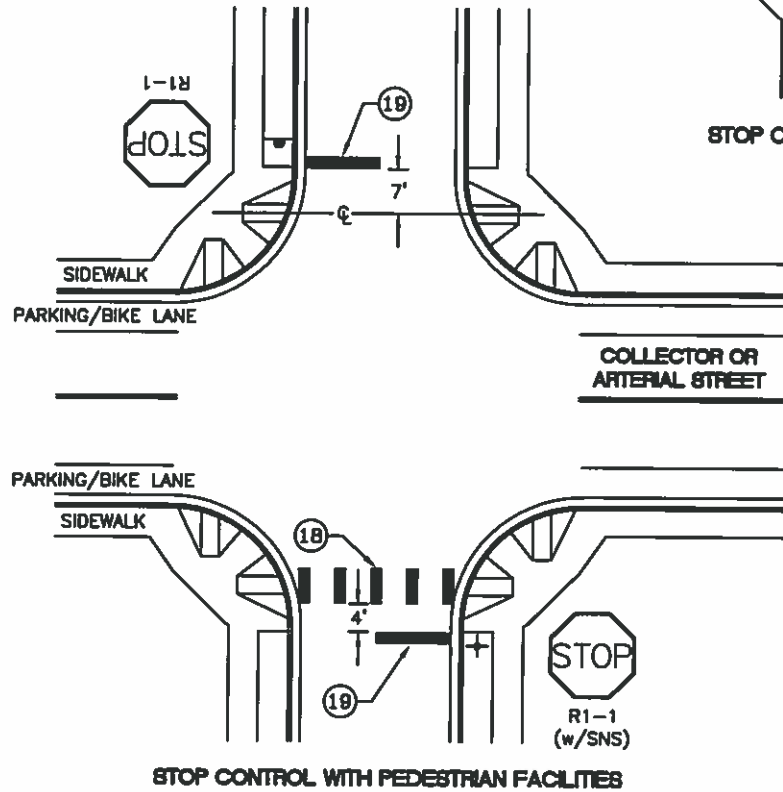
PROJECT TITLE:
Standard Traffic Striping Details -
Typical Intersection w/Dual Left Turn Lanes

12/9/2016

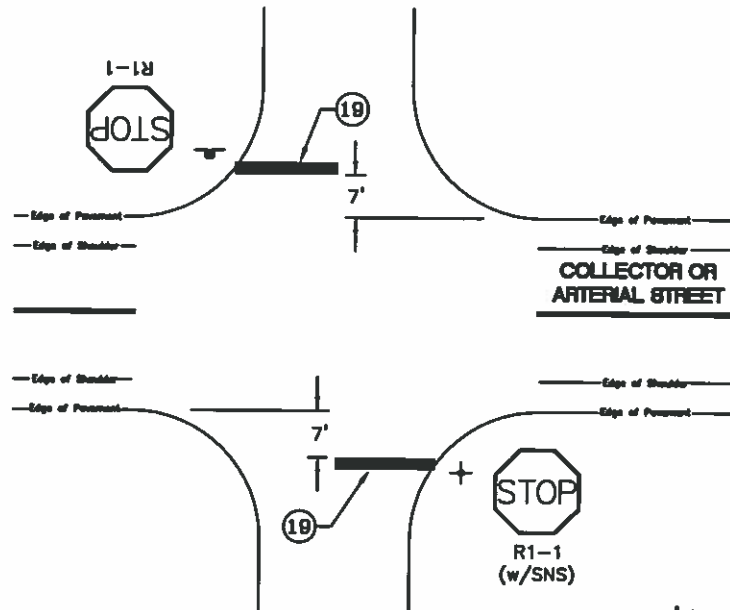


PROFESSIONAL ENGINEER
TRAVIS E. SMITH
TS-1112.09

TYPICAL STOP BAR AND CROSSWALK INSTALLATION AT STOP CONTROLLED INTERSECTIONS



STOP CONTROL WITH PEDESTRIAN FACILITIES AND OFFSET RAMP



STOP CONTROL WITHOUT PEDESTRIAN FACILITIES

NOTES:

- CROSSWALKS, WHEN INSTALLED, SHOULD BE CENTERED ON THE PEDESTRIAN RAMPS PARALLEL TO THE DIRECTION OF TRAVEL.
- STOP BARS, WHEN INSTALLED, SHOULD BE PLACED FOUR (4) FEET IN ADVANCE OF A MARKED CROSSWALK.
- STOP BARS, WHEN INSTALLED, SHOULD BE PLACED SEVEN (7) FEET IN ADVANCE OF AN UNMARKED CROSSWALK, AS MEASURED FROM A LINE CONNECTING THE CENTER OF THE PEDESTRIAN RAMPS.
- STOP BARS, WHEN INSTALLED, SHOULD BE PLACED SEVEN (7) FEET FROM THE EDGE OF THE PAVED SURFACE OF THE CROSS STREET IN THE ABSENCE OF PEDESTRIAN FACILITIES ON SAID STREET.
- TYPICAL DIMENSIONS DEPICTED MAY BE MODIFIED BASED ON SITE SPECIFIC CONDITIONS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER.

Legend

XX Stripping Detail Number

15/16	20	Added offset ramp detail
18/18	07	Revised



SIGNATURES	
Scale: 1/2"	Drawn By: Andrea Smith
Date: 6/15/16	Check By: Andrea Smith
File #: 111210.000	Approved By: Steve Steg

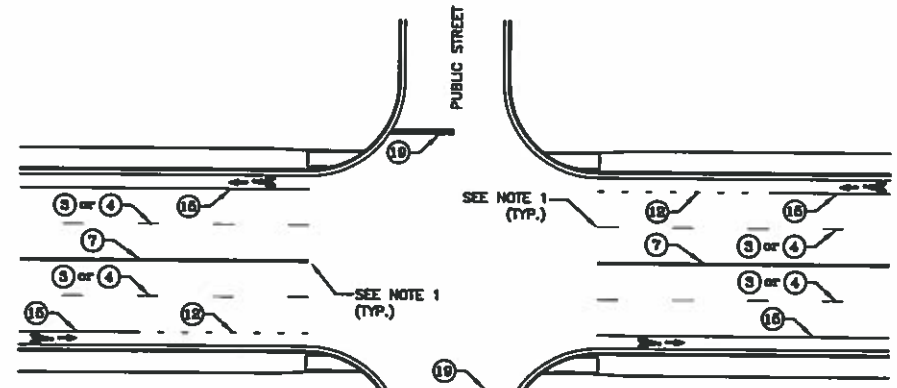
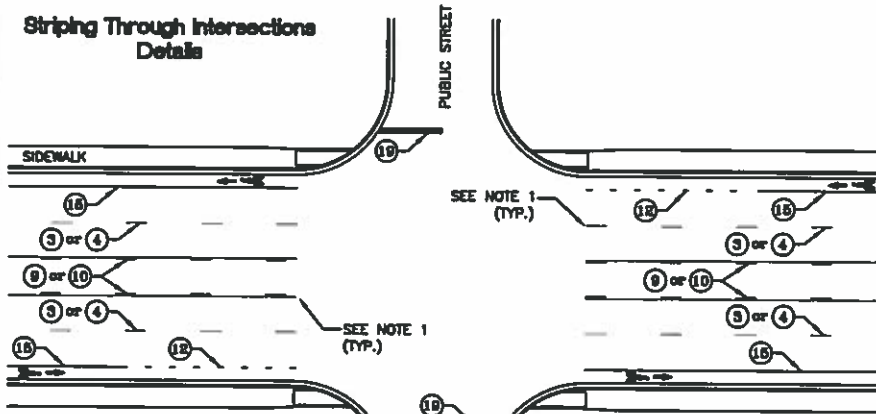
Standard Traffic Stripe Details -
Stop Bars and Crosswalks



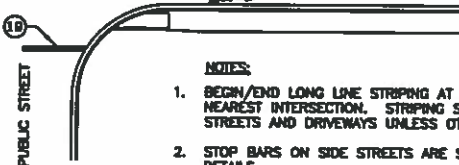
TS-1112.10
Sheet 10 of 12

12/9/2016

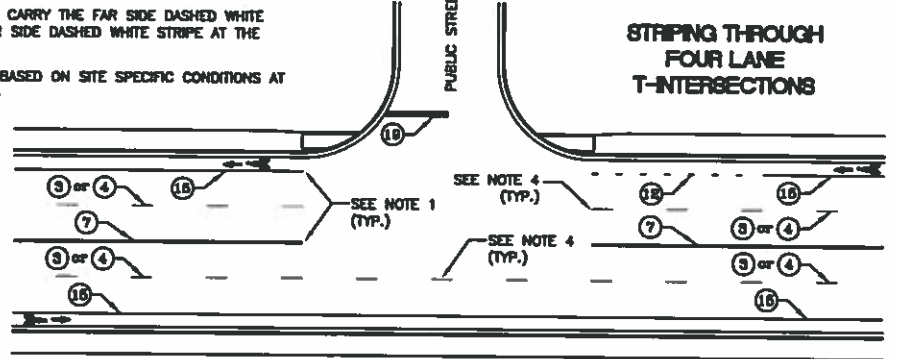
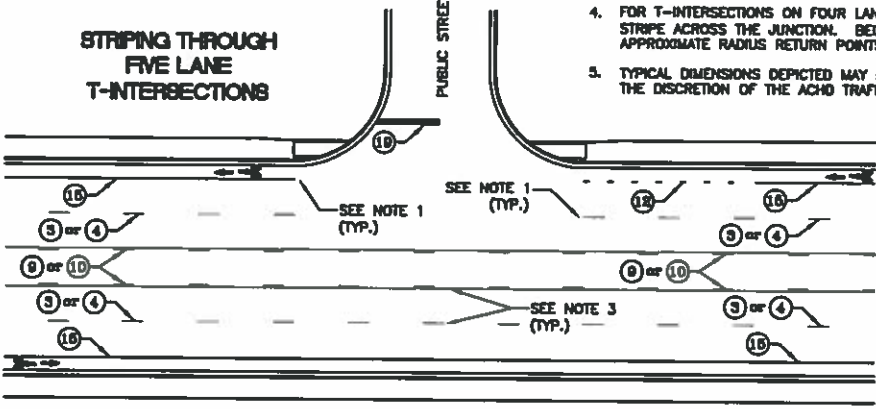
Striping Through Intersections Details



STRIPING THROUGH FIVE LANE INTERSECTIONS



STRIPING THROUGH FIVE LANE T-INTERSECTIONS



- NOTES:**
1. BEGIN/END LONG LINE STRIPING AT THE APPROXIMATE RADIUS RETURN POINT OF THE NEAREST INTERSECTION. STRIPING SHOULD BE CARRIED THROUGH PRIVATELY MAINTAINED STREETS AND DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.
 2. STOP BARS ON SIDE STREETS ARE SHOWN FOR CLARITY. REFER TO PLAN SHEETS FOR DETAILS.
 3. FOR T-INTERSECTIONS ON FIVE LANE ROADWAYS, CARRY THE CENTER TURN LANE AND FAR SIDE DASHED WHITE STRIPE ACROSS THE JUNCTION. BEGIN/END NEAR SIDE DASHED WHITE STRIPE AT THE APPROXIMATE RADIUS RETURN POINTS.
 4. FOR T-INTERSECTIONS ON FOUR LANE ROADWAYS, CARRY THE FAR SIDE DASHED WHITE STRIPE ACROSS THE JUNCTION. BEGIN/END NEAR SIDE DASHED WHITE STRIPE AT THE APPROXIMATE RADIUS RETURN POINTS.
 5. TYPICAL DIMENSIONS DEPICTED MAY BE MODIFIED BASED ON SITE SPECIFIC CONDITIONS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER.

12/9/2016

NO.	DATE	BY	REVISIONS



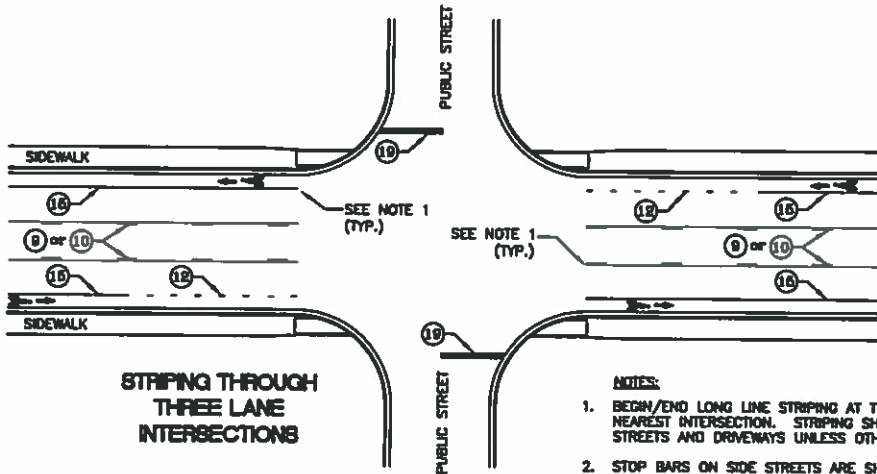
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Intersection Striping Details -
Striping Through Intersections

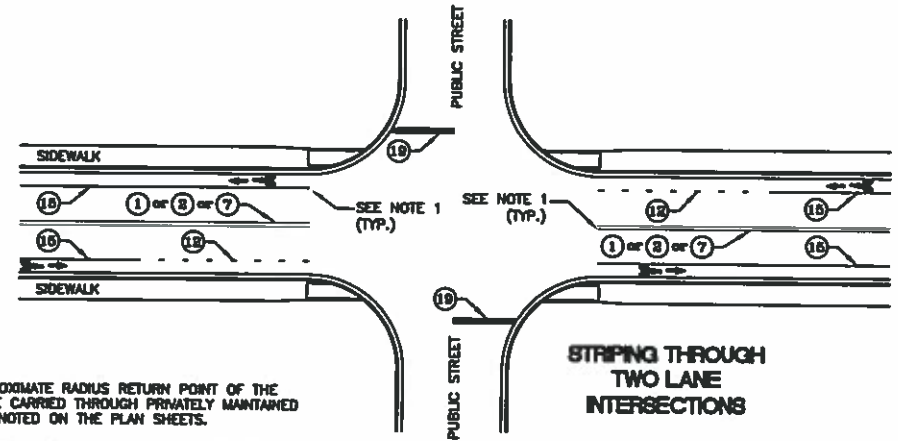


EDWARD JOSEPH III
TS-1112.11

**Striping Through Intersections
Details**

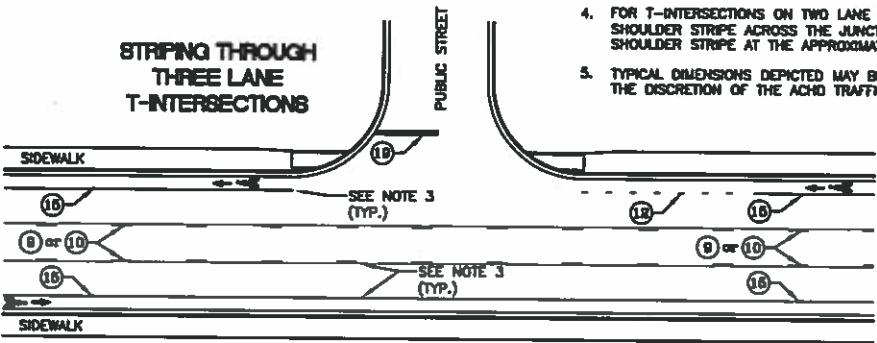


**STRIPING THROUGH
THREE LANE
INTERSECTIONS**

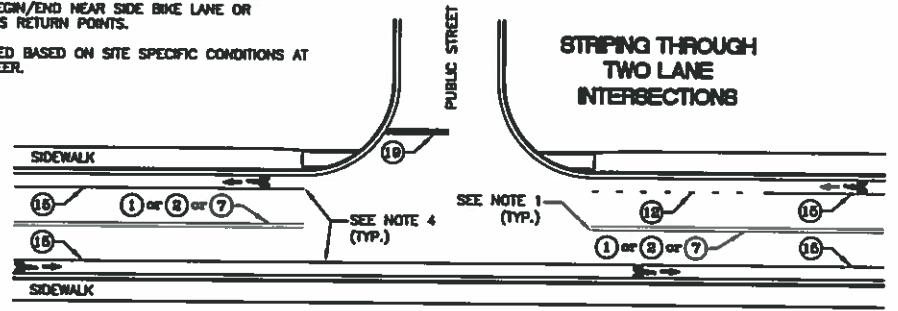


**STRIPING THROUGH
TWO LANE
INTERSECTIONS**

- NOTES:**
1. BEGIN/END LONG LINE STRIPING AT THE APPROXIMATE RADIUS RETURN POINT OF THE NEAREST INTERSECTION. STRIPING SHOULD BE CARRIED THROUGH PRIVATELY MAINTAINED STREETS AND DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.
 2. STOP BARS ON SIDE STREETS ARE SHOWN FOR CLARITY. REFER TO PLAN SHEETS FOR DETAILS.
 3. FOR T-INTERSECTIONS ON THREE LANE ROADWAYS, CARRY THE CENTER TURN LANE ACROSS THE JUNCTION. BEGIN/END NEAR SIDE BIKE LANE OR SHOULDER STRIPE AT THE APPROXIMATE RADIUS RETURN POINTS.
 4. FOR T-INTERSECTIONS ON TWO LANE ROADWAYS, CARRY THE FAR SIDE BIKE LANE OR SHOULDER STRIPE ACROSS THE JUNCTION. BEGIN/END NEAR SIDE BIKE LANE OR SHOULDER STRIPE AT THE APPROXIMATE RADIUS RETURN POINTS.
 5. TYPICAL DIMENSIONS DEPICTED MAY BE MODIFIED BASED ON SITE SPECIFIC CONDITIONS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER.



**STRIPING THROUGH
THREE LANE
T-INTERSECTIONS**



**STRIPING THROUGH
TWO LANE
INTERSECTIONS**

12/9/2016

NO.	DATE	BY	REVISION



Scale: 3/8"	Drawn By: Andrew Smith
Date: 12/9/16	Checked By: Andrew Smith
File: TS-1112.12	Approved: Eric Stone Street

**Intersection Striping Details -
Striping Through Intersections**



STANDARD DRAWING NO. TS-1112.12