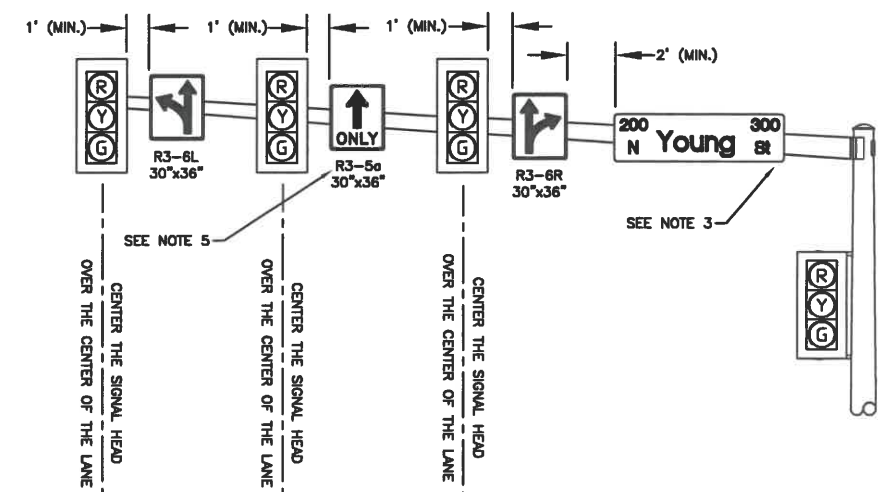


SEE NOTE 4

SEE NOTE 3



SEE NOTE 5

SEE NOTE 3

Permissive Left Turns

NOTES:

1. ALL SIGNAL HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. DETAIL IS A TYPICAL DESIGN FOR A TYPICAL ROAD INTERSECTING AT A 90° ANGLE. ALL SIGNAL HEAD LOCATIONS SHALL BE VERIFIED IN THE FIELD BY ACHD PRIOR TO DRILLING HOLES IN THE MAST ARM.
3. SEE STANDARD DETAIL TS-1109.01 FOR STREET NAME SIGN INSTALLATION DETAILS. RIGHT EDGE OF SIGN SHOULD BE LOCATED AS CLOSE TO THE EDGE OF PAVEMENT AS FEASIBLE.
4. REPLACE R10-12 SIGN WITH AN R3-6L SIGN IF INSTALLED ON A ONE WAY ROADWAY.
5. R3-5a SIGN INSTALLATION IS OPTIONAL, PER DIRECTION FROM THE ACHD TRAFFIC ENGINEER. SEE SIGNAL PLANS FOR DETAILS.
6. OTHER MAST ARM MOUNTED SIGNS MAY BE REQUIRED BASED ON SITE SPECIFIC CONDITIONS. SEE SIGNAL PLANS FOR DETAILS.

OR

OR

OR

OR

12/21/2016

NO.	DATE	BY	DESCRIPTION
REVISIONS			



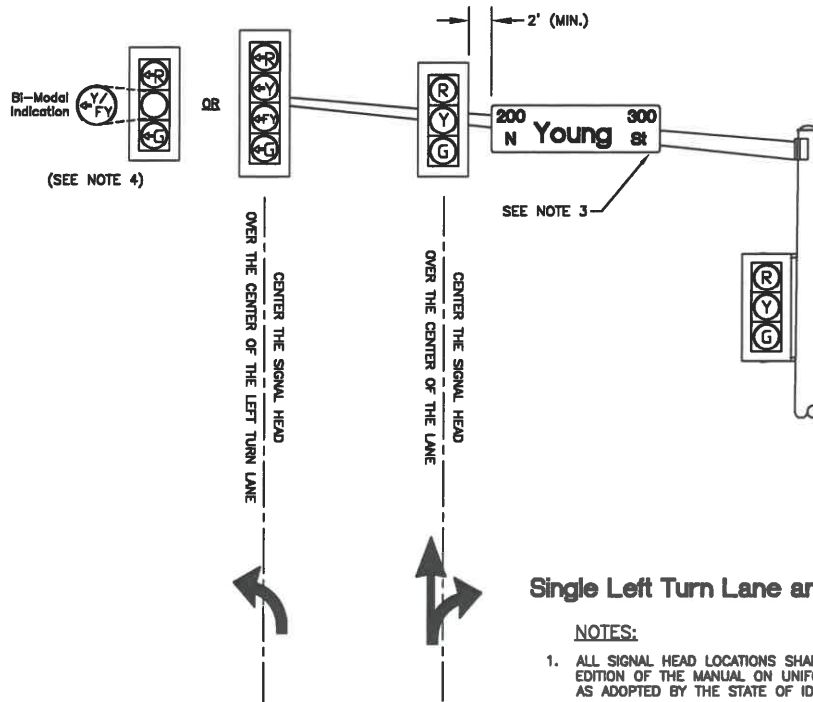
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Drawn By: <i>Justina Bank</i>	Design By: <i>Justina Bank</i>	Checked By: <i>Justina Bank</i>	Approved By: <i>Reese Oym</i>
Date: 12/18/16	File: 15-1117.01.000		

Standard Traffic Signal Head Location Details - Perm. Shared Left Turns

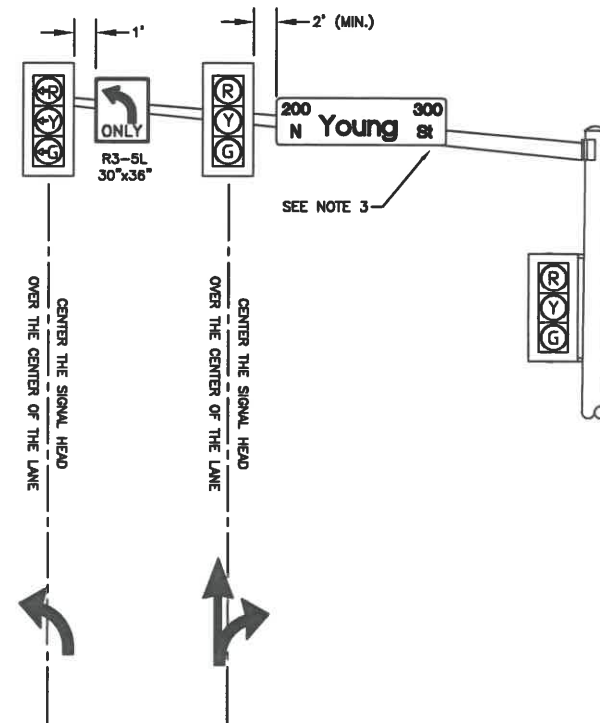
12/21/2016

STANDARD DETAIL, INC.
TS-1117.01
Sheet 1 of 8

Flashing Yellow Arrow (Protected/Permissive)



Protected Left Turns



Single Left Turn Lane and Single Through Lane

NOTES:

1. ALL SIGNAL HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. DETAIL IS A TYPICAL DESIGN FOR A TYPICAL ROAD INTERSECTING AT A 90° ANGLE. ALL SIGNAL HEAD LOCATIONS SHALL BE VERIFIED IN THE FIELD BY ACHD PRIOR TO DRILLING HOLES IN THE MAST ARM.
3. SEE STANDARD DETAIL TS-1109.01 FOR STREET NAME SIGN INSTALLATION DETAILS. RIGHT EDGE OF SIGN SHOULD BE LOCATED AS CLOSE TO THE EDGE OF PAVEMENT AS FEASIBLE.
4. BI-MODAL LEFT TURN SIGNAL HEADS SHOULD ONLY BE USED WHERE APPROVED BY THE ACHD TRAFFIC ENGINEER.
5. OTHER MAST ARM MOUNTED SIGNS MAY BE REQUIRED BASED ON SITE SPECIFIC CONDITIONS. SEE SIGNAL PLANS FOR DETAILS.

12/21/2016

NO.	DATE	BY	DESCRIPTION
- REVISIONS -			



SIGNATURES	
Drawn By: Jonathan Stank	Checked By: Jonathan Stank
Design By: Jonathan Stank	Approved By: Steve Gynn

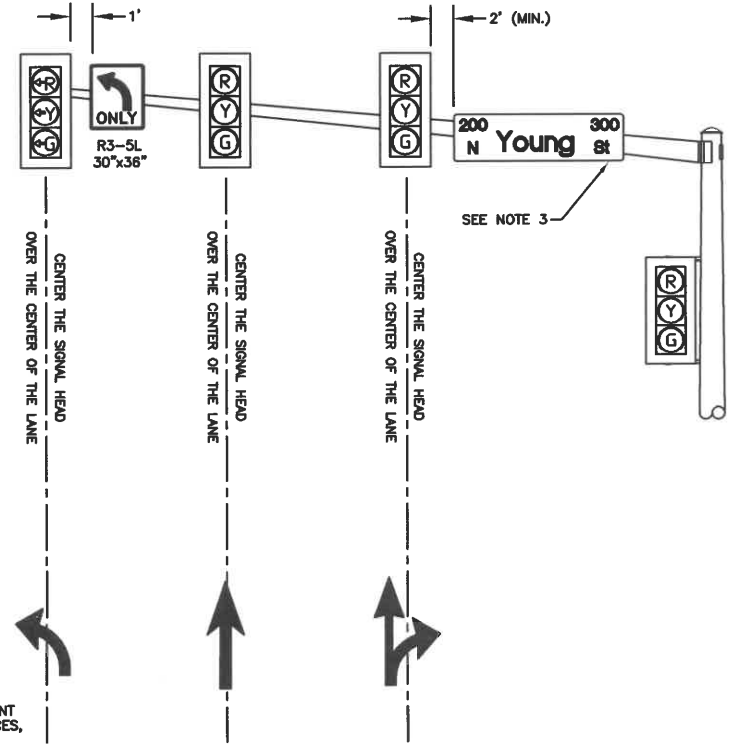
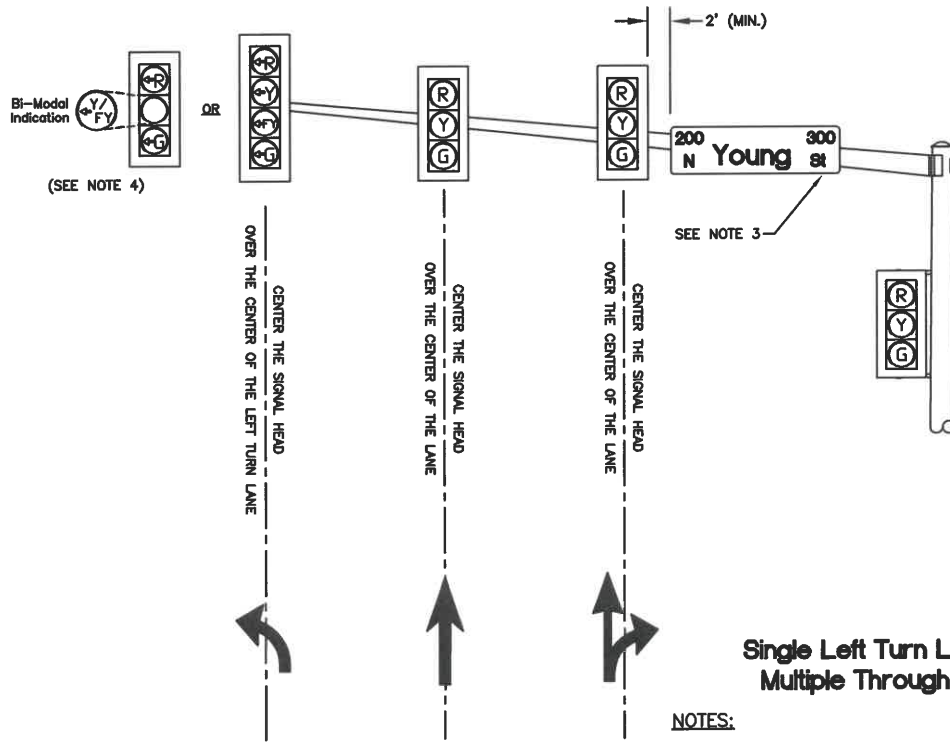
SHEET TITLE	
Standard Traffic Signal Head Location Details - Single Left Turn Lane, Through Lane	

STANDARD ENGINEERING, INC.

TS-1117.02

Flashing Yellow Arrow (Protected/Permissive)

Protected Left Turns



Single Left Turn Lane and Multiple Through Lanes

NOTES:

1. ALL SIGNAL HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. DETAIL IS A TYPICAL DESIGN FOR A TYPICAL ROAD INTERSECTING AT A 90° ANGLE. ALL SIGNAL HEAD LOCATIONS SHALL BE VERIFIED IN THE FIELD BY ACHD PRIOR TO DRILLING HOLES IN THE MAST ARM.
3. SEE STANDARD DETAIL TS-1109.01 FOR STREET NAME SIGN INSTALLATION DETAILS. RIGHT EDGE OF SIGN SHOULD BE LOCATED AS CLOSE TO THE EDGE OF PAVEMENT AS FEASIBLE.
4. BI-MODAL LEFT TURN SIGNAL HEADS SHOULD ONLY BE USED WHERE APPROVED BY THE ACHD TRAFFIC ENGINEER.
5. OTHER MAST ARM MOUNTED SIGNS MAY BE REQUIRED BASED ON SITE SPECIFIC CONDITIONS. SEE SIGNAL PLANS FOR DETAILS.

1/27/2020

NO.	DATE	BY	DESCRIPTION
• REVISIONS •			

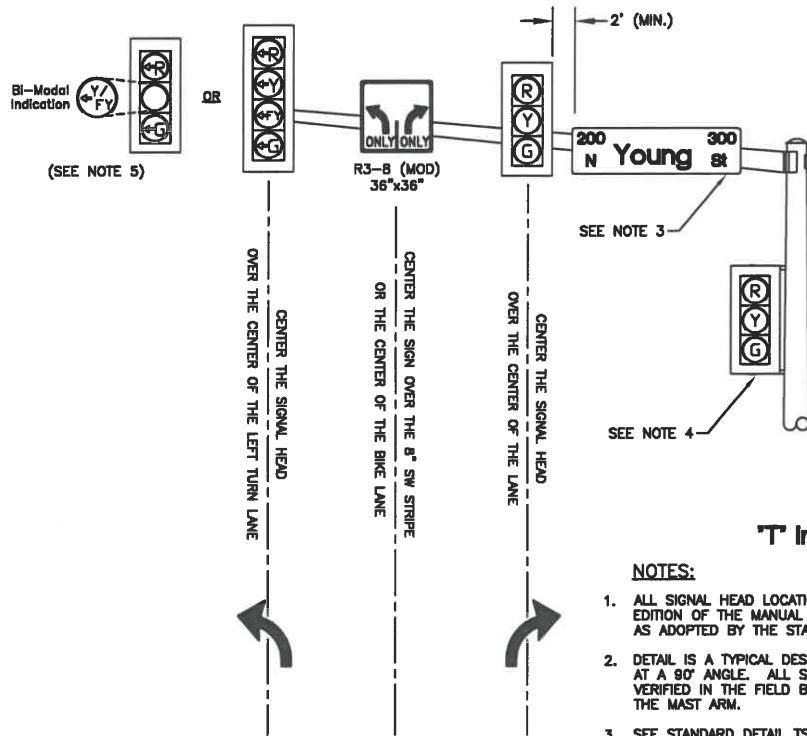


• SIGNATURES •		• SHEET TITLE •	
Scale: NTS	Drawn By: Justina Beak	Standard Traffic Signal Head Location Details – Multi-Lane Approach with Single Left Turn Lane	
Date: 10/20/18	Design By: Justina Beak		
File: TP-1117.00.DWG	Approved By: Steve Oyam		

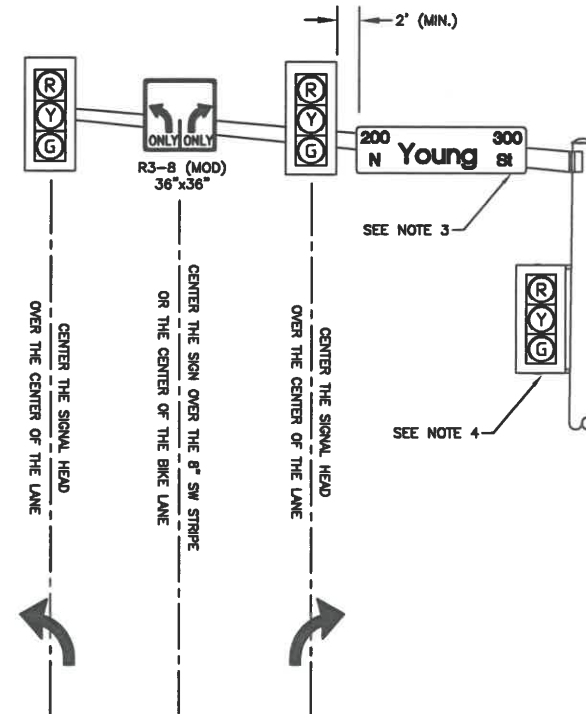


STANDARD DETAIL NO. TS-1117.03

Flashing Yellow Arrow (Protected/Permissive)



Permissive Left Turns



T Intersections

NOTES:

1. ALL SIGNAL HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. DETAIL IS A TYPICAL DESIGN FOR A TYPICAL ROAD INTERSECTING AT A 90° ANGLE. ALL SIGNAL HEAD LOCATIONS SHALL BE VERIFIED IN THE FIELD BY ACHD PRIOR TO DRILLING HOLES IN THE MAST ARM.
3. SEE STANDARD DETAIL TS-1109.01 FOR STREET NAME SIGN INSTALLATION DETAILS. RIGHT EDGE OF SIGN SHOULD BE LOCATED AS CLOSE TO THE EDGE OF PAVEMENT AS FEASIBLE.
4. POST MOUNTED SIGNAL HEADS ARE OPTIONAL, BUT MAY BE REQUIRED BY THE ACHD TRAFFIC ENGINEER.
5. BI-MODAL LEFT TURN SIGNAL HEADS SHOULD ONLY BE USED WHERE APPROVED BY THE ACHD TRAFFIC ENGINEER.
6. THE LEFT TURN GREEN ARROW PHASE MAY BE OMITTED AT THE DISCRETION OF ACHD CONGESTION MANAGEMENT.
7. OTHER MAST ARM MOUNTED SIGNS MAY BE REQUIRED BASED ON SITE SPECIFIC CONDITIONS. SEE SIGNAL PLANS FOR DETAILS.

12/21/2016

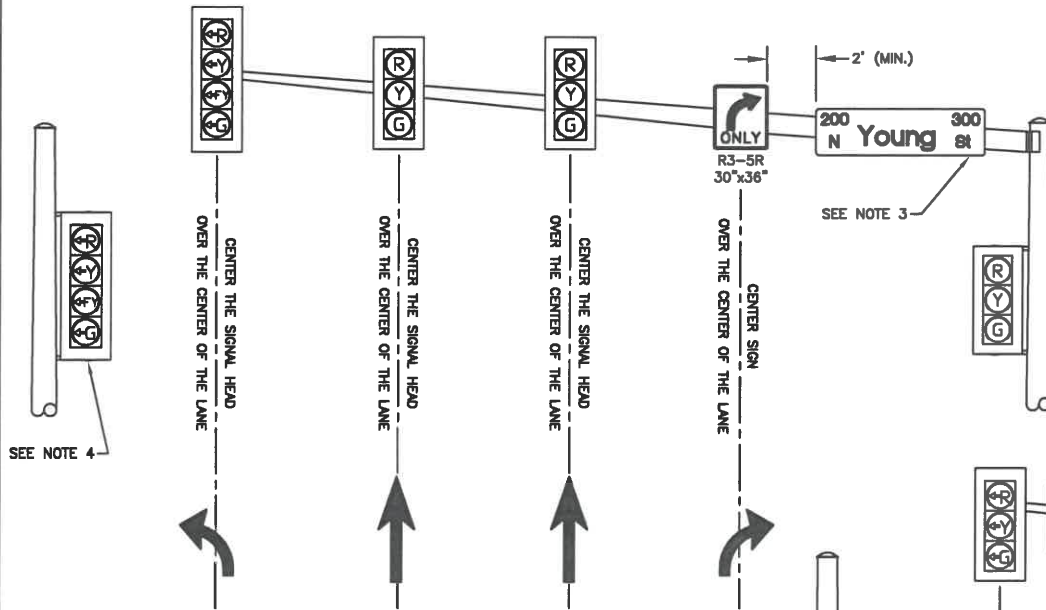


NO.	DATE	BY	REVISIONS



SIGNATURES		SHEET TITLE	
Revised By: JFB	Drawn By: Jordana Beale	Standard Traffic Signal Head Location Details - T-Intersections	
Date: 12/20/16	Design By: Jordana Beale		
File: TS-1117.04.DWG	Approved By: Steve Oyam		

Flashing Yellow Arrow (Protected/Permissive)



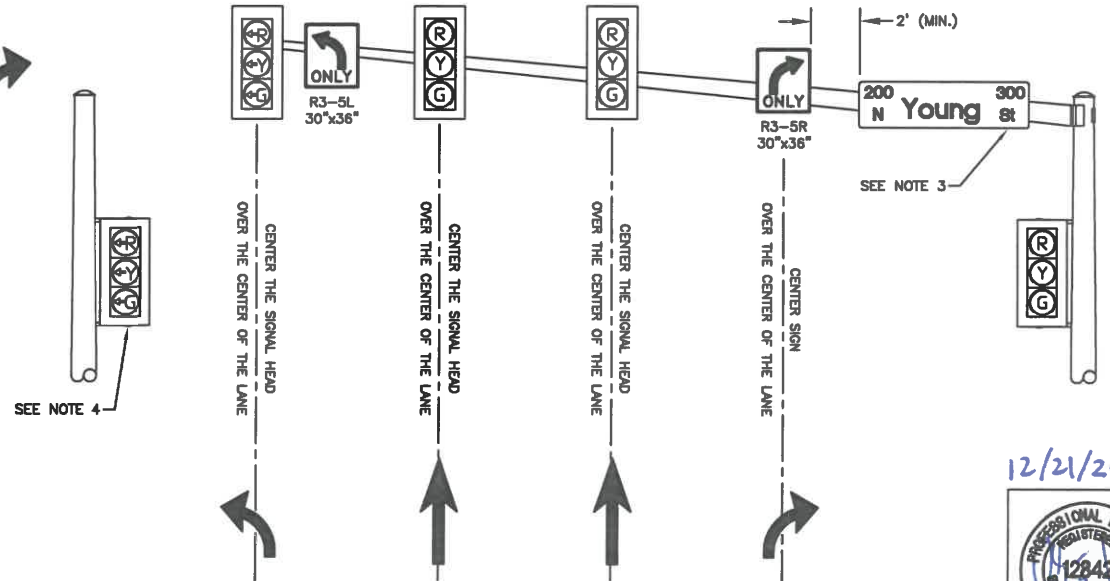
SEE NOTE 4

Single Left Turn Lane, Multiple Through Lanes and Right Turn Lane

NOTES:

1. ALL SIGNAL HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. DETAIL IS A TYPICAL DESIGN FOR A TYPICAL ROAD INTERSECTING AT A 90° ANGLE. ALL SIGNAL HEAD LOCATIONS SHALL BE VERIFIED IN THE FIELD BY ACHD PRIOR TO DRILLING HOLES IN THE MAST ARM.
3. SEE STANDARD DETAIL TS-1109.01 FOR STREET NAME SIGN INSTALLATION DETAILS. RIGHT EDGE OF SIGN SHOULD BE LOCATED AS CLOSE TO THE EDGE OF PAVEMENT AS FEASIBLE.
4. FOR NEW SIGNALS OR SIGNIFICANT MODIFICATIONS TO EXISTING SIGNALS, FAR SIDE LEFT TURN SIGNAL HEAD INSTALLATION SHOULD BE INSTALLED ON APPROACHES WITH POSTED SPEED LIMITS GREATER THAN 45 MPH. FAR SIDE LEFT TURN SIGNAL HEAD INSTALLATION MAY BE REQUIRED AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER AT SPEED LIMITS OF 45 MPH OR LESS.
5. THE LEFT TURN GREEN ARROW PHASE MAY BE OMITTED AT THE DISCRETION OF ACHD CONGESTION MANAGEMENT.
6. OTHER MAST ARM MOUNTED SIGNS MAY BE REQUIRED BASED ON SITE SPECIFIC CONDITIONS. SEE SIGNAL PLANS FOR DETAILS.

Protected Left Turns



SEE NOTE 3

12/21/2016

NO.	DATE	BY	REVISIONS



SIGNATURES	
Drawn By: Joshua Beak	
Design By: Joshua Beak	
Approved By: Ross Oyam	

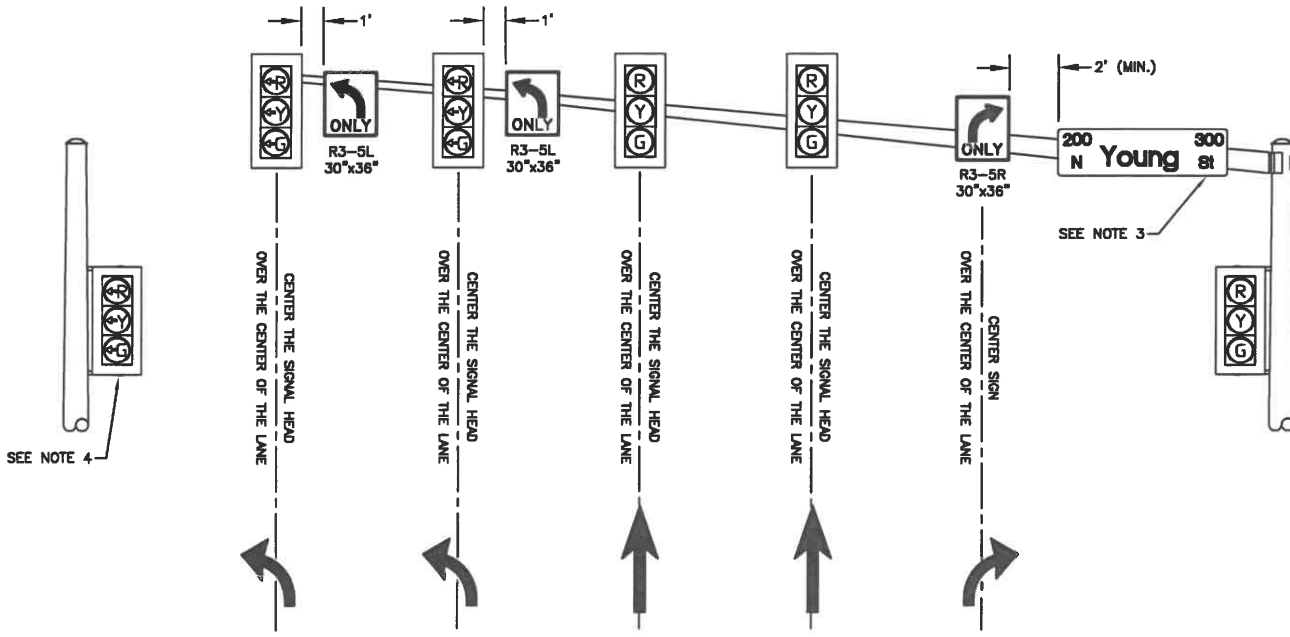
STANDARD SHEET TITLE
Standard Traffic Signal Head Location Details - Multi-Lane Approach with Single Left Turn Lane, Right Turn Lane

PROFESSIONAL ENGINEER
REGISTERED
12842
JOSHUA E. BEAK
STATE OF IDAHO

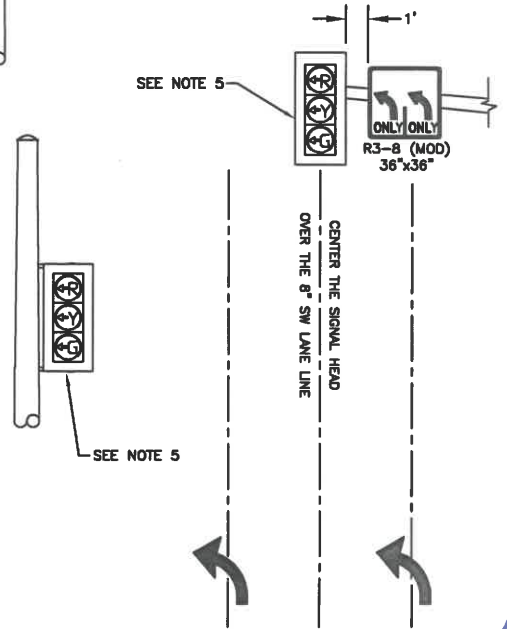
STANDARD SHEET NO.
TS-1117.05
Sheet 5 of 8

12/21/2016 12:58:00 PM 1117.05.DWG

Dual Left Turn Lanes



Desired Signal Head Alignment



Optional Signal Head Alignment

NOTES:

1. ALL SIGNAL HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. DETAIL IS A TYPICAL DESIGN FOR A TYPICAL ROAD INTERSECTING AT A 90° ANGLE. ALL SIGNAL HEAD LOCATIONS SHALL BE VERIFIED IN THE FIELD BY ACHD PRIOR TO DRILLING HOLES IN THE MAST ARM.
3. SEE STANDARD DETAIL TS-1109.01 FOR STREET NAME SIGN INSTALLATION DETAILS. RIGHT EDGE OF SIGN SHOULD BE LOCATED AS CLOSE TO THE EDGE OF PAVEMENT AS FEASIBLE.
4. FOR NEW SIGNALS OR SIGNIFICANT MODIFICATIONS TO EXISTING SIGNALS, FAR SIDE LEFT TURN SIGNAL HEAD INSTALLATION SHOULD BE INSTALLED ON APPROACHES WITH POSTED SPEED LIMITS GREATER THAN 45 MPH. FAR SIDE LEFT TURN SIGNAL HEAD INSTALLATION MAY BE REQUIRED AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER AT SPEED LIMITS OF 45 MPH OR LESS.
5. AN OPTIONAL TREATMENT FOR DUAL LEFT TURN SIGNAL HEAD PLACEMENT INCLUDES ONE HEAD INSTALLED ON THE MAST ARM AND ONE POLE MOUNTED HEAD ON THE FAR SIDE OF THE INTERSECTION. THIS CONFIGURATION SHOULD ONLY BE USED WHEN THE REQUIRED MAST ARM WOULD EXCEED 85' IN ORDER TO INSTALL TWO LEFT TURN HEADS WITHOUT EMPLOYING TUBULAR STRUCTURES.
6. OTHER MAST ARM MOUNTED SIGNS MAY BE REQUIRED BASED ON SITE SPECIFIC CONDITIONS. SEE SIGNAL PLANS FOR DETAILS.

12/21/2016

NO.	DATE	BY	REVISION



SIGNATURES	
Scale: 3/8"	Drawn By: Zuzanna Beak
Date: 12/20/16	Design By: Zuzanna Beak
File: TS-1117.06.DWG	Approved By: Ross Oyam

STREET TITLE:
Standard Traffic Signal Head Location Details –
Multi-Lane Approach with Dual Left Turn Lanes

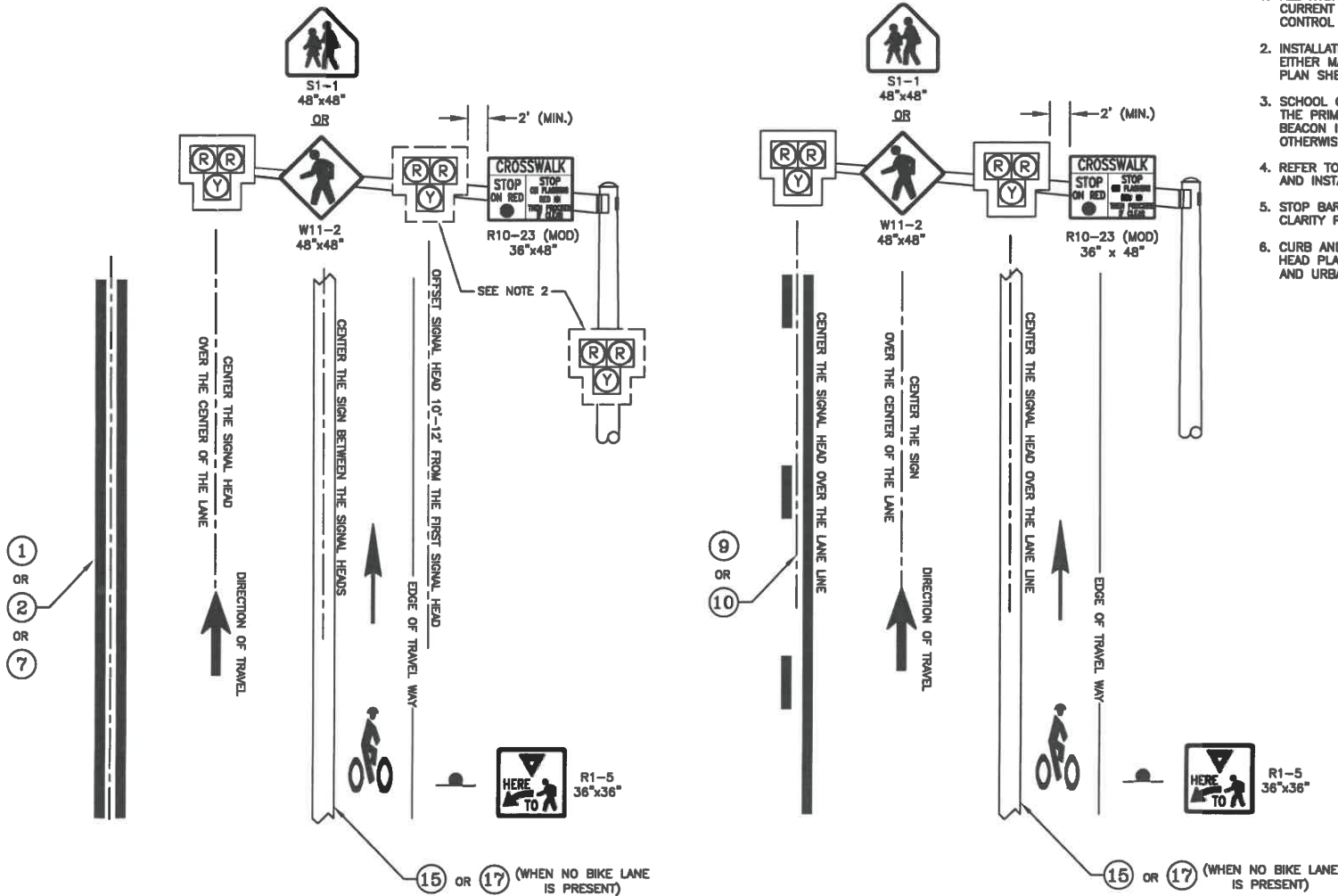
12/21/2016

STANDARD DETAIL NO.
TS-1117.06
Sheet 6 of 8

Pedestrian Hybrid Beacon - Two or Three Lane Roadways

NOTES:

1. ALL HYBRID HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. INSTALLATION OF A SUPPLEMENTAL HYBRID HEAD MAY BE EITHER MAST ARM OR POLE MOUNTED. REFER TO SIGNAL PLAN SHEETS FOR DETAILS.
3. SCHOOL CROSSING SIGNS SHOULD BE INSTALLED WHEN THE PRIMARY FUNCTION OF THE PEDESTRIAN HYBRID BEACON IS FOR SCHOOL RELATED PEDESTRIAN ACTIVITY. OTHERWISE, PEDESTRIAN SIGNS SHOULD BE INSTALLED.
4. REFER TO SIGNAL PLAN SHEETS FOR EXACT PLACEMENT AND INSTALLATION OF SIGNS AND MARKINGS.
5. STOP BARS AND CROSSWALKS ARE NOT SHOWN FOR CLARITY PURPOSES.
6. CURB AND GUTTER DETAILS ARE NOT SHOWN. SIGNAL HEAD PLACEMENT IS SIMILAR WITH RESPECT TO RURAL AND URBAN ROADWAY SECTIONS.



12/21/2016

NO.	DATE	BY	REVISIONS
1	10/20/10	JHB	Provided pole mounted signal head option.
2	10/20/11	JHB	Changed 10'-10" to 10'-12" MIN.
3	12/22/16	BY	REVISIONS



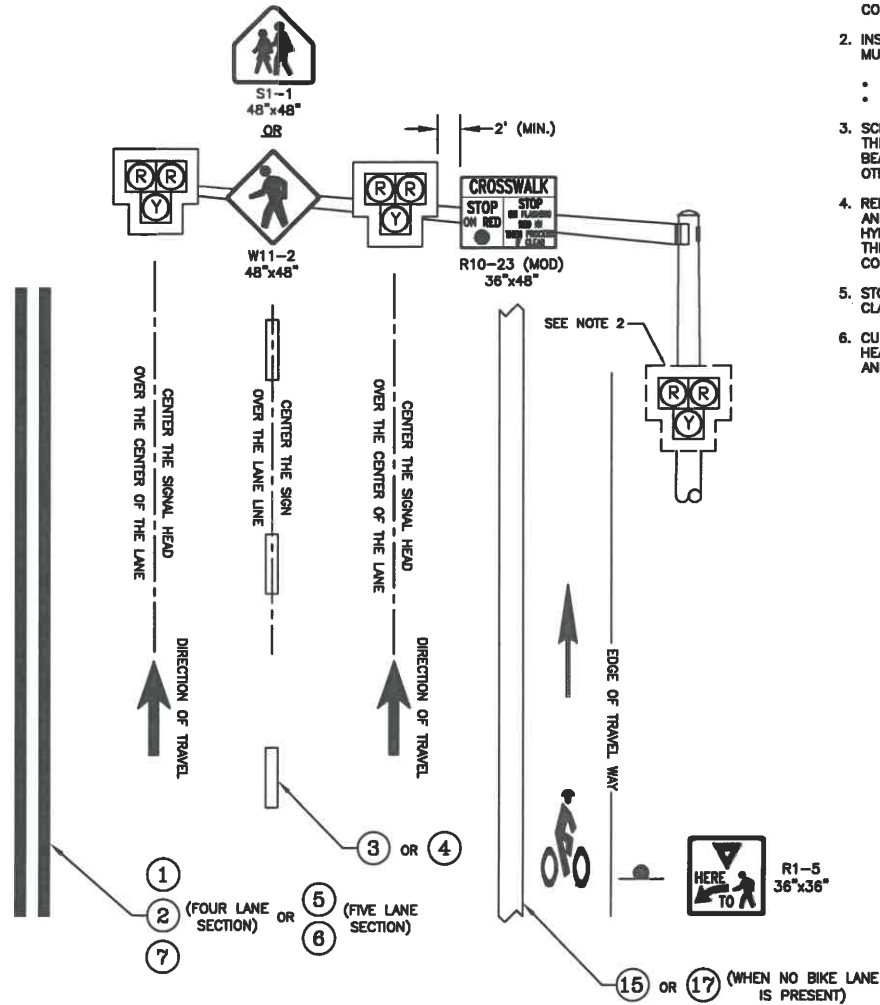
SIGNATURES		CHECK TITLES	
Drawn By: Jonathan Beak	Checked By: Jonathan Beak	Design By: Jonathan Beak	Approved By: Ron Owen

Standard Traffic Signal Head Details -
Pedestrian Hybrid Beacon

PROFESSIONAL ENGINEER
REGISTERED
12842
STATE OF IDAHO
JOSHUA E. BARK

STANDARD DETAIL NO.
TS-1117.07

Pedestrian Hybrid Beacon - Four or Five Lane Roadway



NOTES:

1. ALL HYBRID HEAD LOCATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE OF IDAHO.
2. INSTALL SUPPLEMENTAL POLE MOUNTED HYBRID HEAD ON MULTILANE ROADWAYS WITH EITHER OF THE FOLLOWING:
 - POSTED SPEED LIMIT OF 45 MPH OR GREATER
 - GREATER THAN 20000 ADT
3. SCHOOL CROSSING SIGNS SHOULD BE INSTALLED WHEN THE PRIMARY FUNCTION OF THE PEDESTRIAN HYBRID BEACON IS FOR SCHOOL RELATED PEDESTRIAN ACTIVITY. OTHERWISE, PEDESTRIAN SIGNS SHOULD BE INSTALLED.
4. REFER TO SIGNAL PLAN SHEETS FOR EXACT PLACEMENT AND INSTALLATION OF SIGNS AND MARKINGS. ADDITIONAL HYBRID HEADS MAY BE REQUIRED AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER BASED ON SITE SPECIFIC CONDITIONS.
5. STOP BARS AND CROSSWALKS ARE NOT SHOWN FOR CLARITY PURPOSES.
6. CURB AND GUTTER DETAILS ARE NOT SHOWN. SIGNAL HEAD PLACEMENT IS SIMILAR WITH RESPECT TO RURAL AND URBAN ROADWAY SECTIONS.

12/21/2016



NO.	DATE	BY	DESCRIPTION
10	11/11/11	JEB	Changed R10-23 to an R10-23 MOD.
11	12/21/16	JEB	REVISIONS



SIGNATURES	
Designer: JEB	Drawn By: Joshua Bank
Date: 11/25/10	Design By: Joshua Bank
File: TS-1117.08.DWG	Approved By: Ross Oym

SHEET TITLE	
Standard Traffic Signal Head Details - Pedestrian Hybrid Beacon	

STANDARD DETAIL, INC.
TS-1117.08
Sheet 8 of 8

12/21/2016 Standard Traffic Head-1117.08.DWG