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CITY OF SPOKANE STANDARD PLANS – SECTION G

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 ***X-### = New Standard Plan

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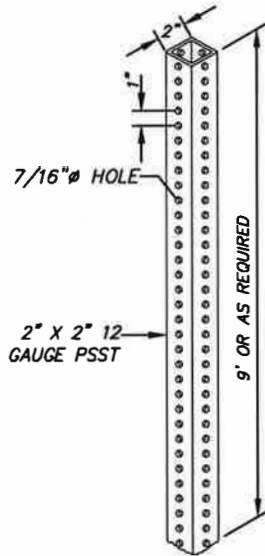
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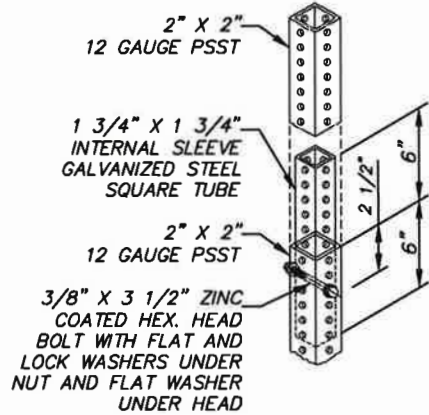
X-#### = Revised Standard Plan
 ***X-#### = New Standard Plan

| Plan No. | Plan Title | Current Plan Date |
|-----------------|---|--------------------------|
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TYPE P SIGN POST

PSST=PERFORATED SQUARE STEEL TUBE

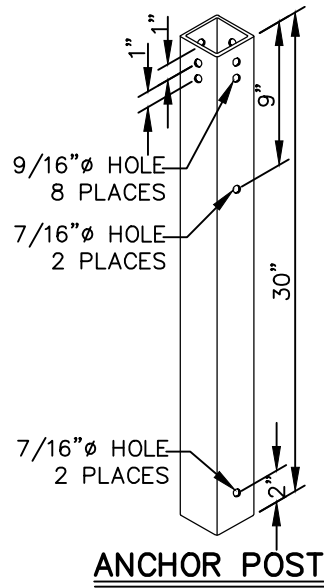
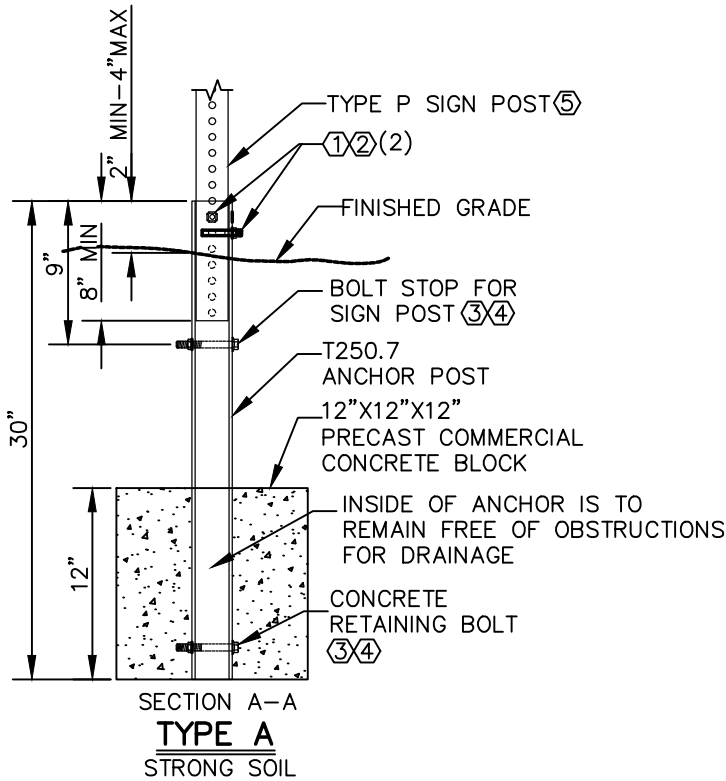


PERMISSIBLE FIELD SPLICE

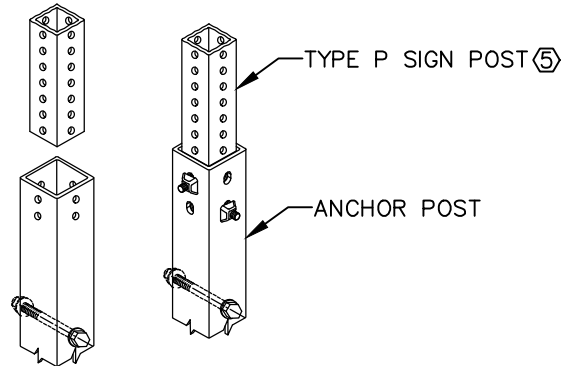
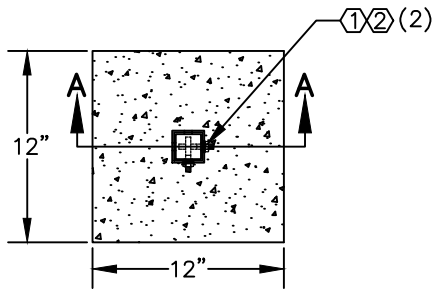
NOTES:

1. POSTS SHALL BE TELES PAR BRAND SQUARE TUBING OR APPROVED EQUAL. SIGN POST MUST BE BREAKAWAY AND ACCEPTABLE PER NCHRP 350.
2. POSTS SHALL BE COLD ROLLED STEEL WITH PERFORATIONS OF .4375 INCH DIAMETER ON ONE INCH CENTERS ON ALL FOUR SIDES.
3. POSTS SHALL EMPLOY A YIELDING BREAKAWAY SYSTEM CONSISTING OF SIGN POST AND POST BASE.
4. POSTS SHALL BE HOT DIPPED GALVANIZED.
5. FIELD SPLICES ARE NOT PERMITTED BELOW NINE FEET ABOVE FINISHED GRADE. A MAXIMUM OF ONE SPLICE IS ALLOWED PER POST.
6. ALL SIGN POSTS SHALL BE PLUMB.

| | | | |
|--|--|---|--|
| <p>APPROVED BY</p> <p>ENGINEERING OPERATIONS MANAGER KYLE TWOHIG</p> <p>CITY ENGINEER DANIEL ALBERT BULLER, P.E.</p> | <p>ADOPTED: 1/2017</p> <p>REVISED: _____</p> <p>SUPERSEDES: _____</p> <p>CHECKED BY: GTO</p> <p>SCALE: NTS</p> <p>DWG/REV. BY: MLD</p> | <p>SIGN POST TYPE P</p> | <p>STANDARD PLAN No. G-10</p> |
| | | <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> | |



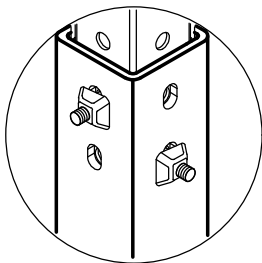
2 1/2" X 2 1/2" GALVANIZED STEEL SQUARE TUBING
 3/16" WALL THICKNESS
 ASTM A500 TUBE STEEL
 ASTM A123 GALVANIZING



ANCHOR AND POST ASSEMBLY

NOTES:

- SUPPORTS SHALL BE PRECAST.
- ANY REQUEST FOR DEVIATIONS FROM THIS DESIGN MUST BE ACCOMPANIED BY A STAMPED ENGINEER'S DRAWING, SUBMITTED TO THE DIRECTOR OF THE STREET DEPARTMENT.



TUFNUT ORIENTATION DETAIL
 (CRISSCROSS BOLTS)

| NO. | DESCRIPTION | MATERIAL | QTY |
|-----|-----------------------------------|----------------------|-----|
| (1) | 3/8" - 16x3" HEX SOCKET HEAD BOLT | GRADE 2, ZINC PLATED | 2 |
| (2) | TUFNUT 3/8" - 16 | GRADE 5, YELLOW ZINC | 2 |
| (3) | 3/8" - 16x3" HEX HEAD BOLT | ZINC PLATED STEEL | 2 |
| (4) | 3/8" - 16 SERRATED FLANGE HEX NUT | ZINC PLATED STEEL | 2 |
| (5) | 2" SIGN POST | PSST 12 GAUGE | 1 |

APPROVED BY

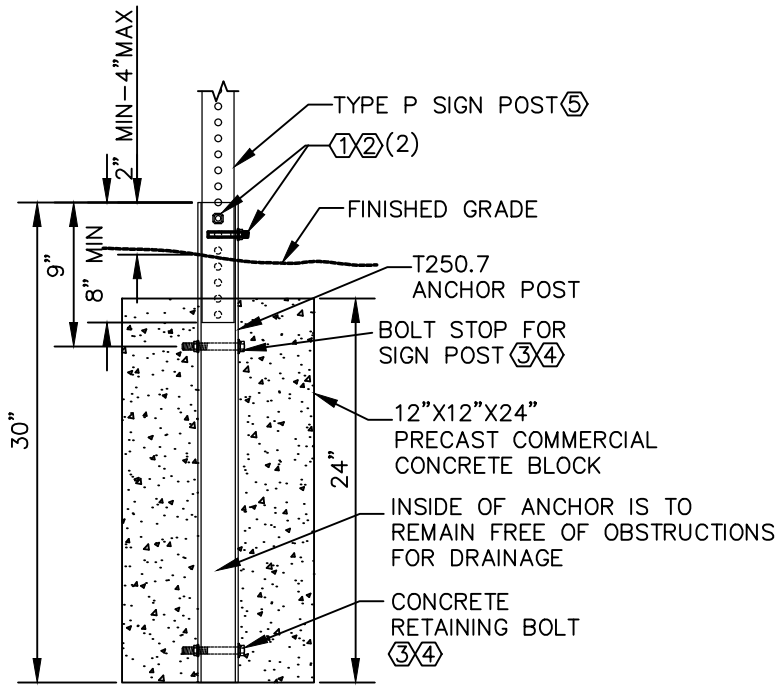
 DIRECTOR OF ENGINEERING SERVICES
 KYLE TWOHIG

 CITY ENGINEER
 DAN BULLER, P.E.

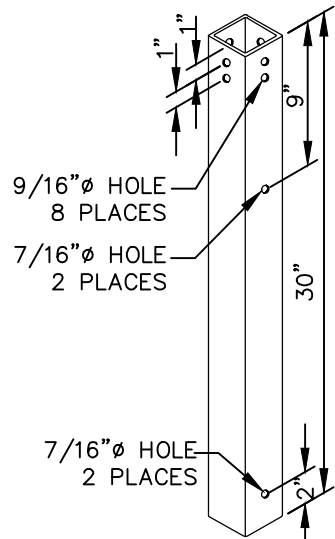
ADOPTED: _____
 REVISED: 04/2022
 SUPERSEDES: 01/2017
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: GOM/MLD

SIGN POST INSTALLATION
TYPE A

 ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON
 STANDARD PLAN No.
G-10A

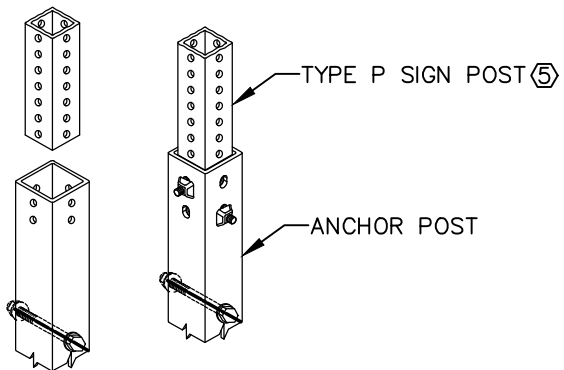
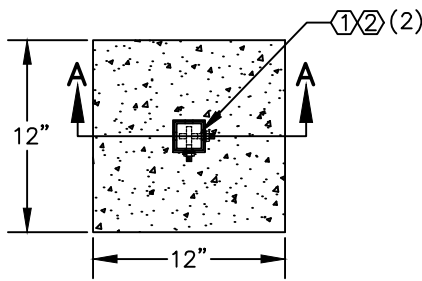


SECTION A-A
TYPE B
WEAK SOIL

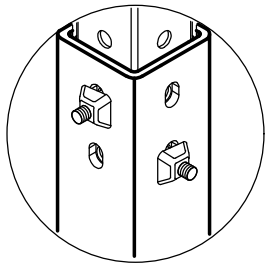


ANCHOR POST

(T250.7)
2 1/2" X 2 1/2" GALVANIZED
STEEL SQUARE TUBING
3/16" WALL THICKNESS
ASTM A500 TUBE STEEL
ASTM A123 GALVANIZING



ANCHOR AND POST ASSEMBLY



TUFNUT ORIENTATION DETAIL
(CRISSCROSS BOLTS)

NOTES:

1. SUPPORTS SHALL BE PRECAST.
2. ANY REQUEST FOR DEVIATIONS FROM THIS DESIGN MUST BE ACCOMPANIED BY A STAMPED ENGINEER'S DRAWING, SUBMITTED TO THE DIRECTOR OF THE STREET DEPARTMENT.

| NO. | DESCRIPTION | MATERIAL | QTY |
|-----|-----------------------------------|----------------------|-----|
| ① | 3/8" - 16x3" HEX SOCKET HEAD BOLT | GRADE 2, ZINC PLATED | 2 |
| ② | TUFNUT 3/8" - 16 | GRADE 5, YELLOW ZINC | 2 |
| ③ | 3/8" - 16x3" HEX HEAD BOLT | ZINC PLATED STEEL | 2 |
| ④ | 3/8" - 16 SERRATED FLANGE HEX NUT | ZINC PLATED STEEL | 2 |
| ⑤ | 2" SIGN POST | PSST 12 GAUGE | 1 |

APPROVED BY
[Signature]
DIRECTOR OF ENGINEERING SERVICES
KYLE TWOHIG

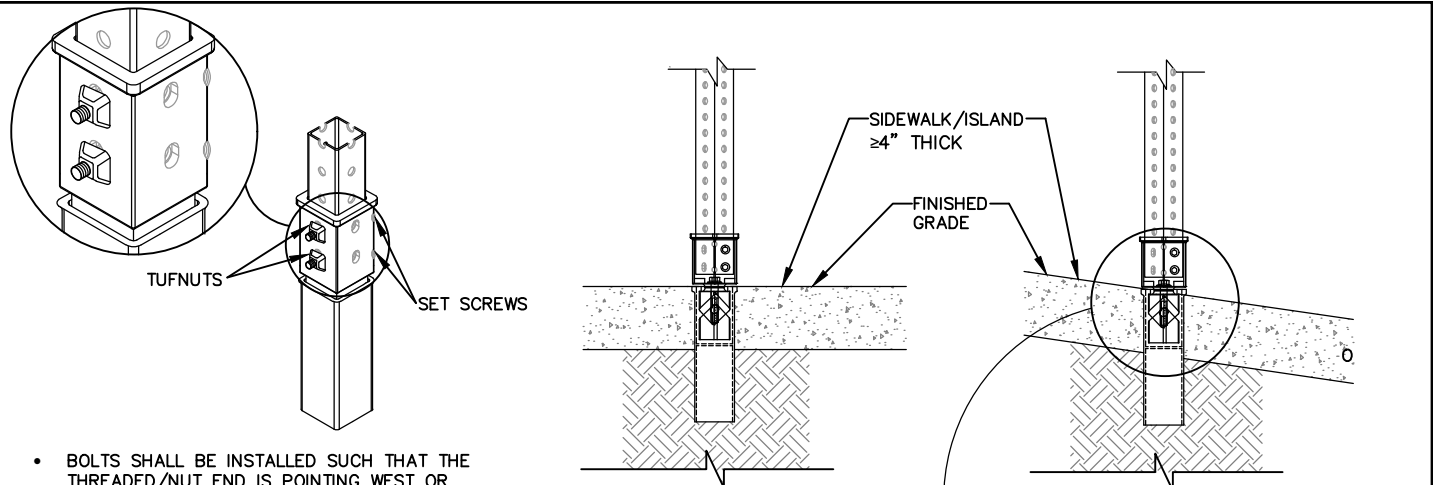
[Signature]
CITY ENGINEER
DAN BULLER, P.E.

ADOPTED: _____
REVISED: 04/2022
SUPERSEDES: 01/2017
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: GOM/MLD

**SIGN POST INSTALLATION
TYPE B**

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN No.
G-10B



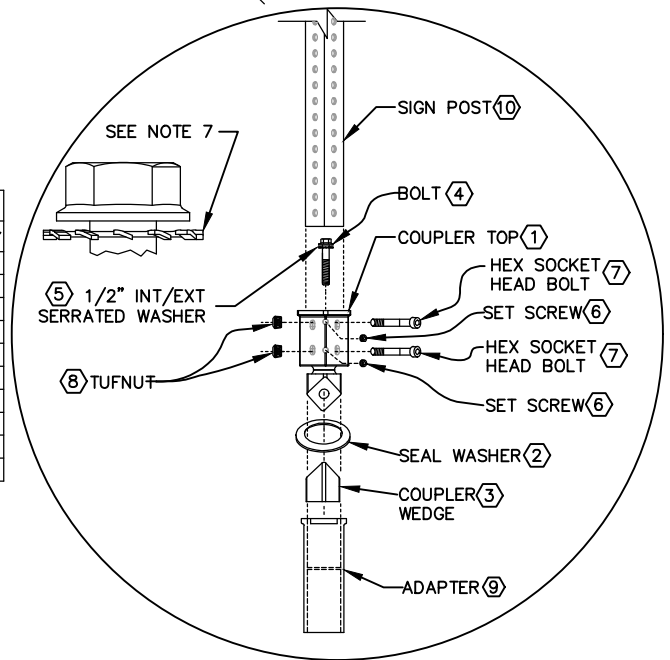
- BOLTS SHALL BE INSTALLED SUCH THAT THE THREADED/NUT END IS POINTING WEST OR SOUTH, WHICHEVER DIRECTION IS AWAY FROM OR PARALLEL TO PEDESTRIAN TRAFFIC.
- SET SCREWS SHALL BE OPPOSITE THE THREADED/NUT END.

TUFNUT ORIENTATION

LEVEL GRADE INSTALLATION

SLOPED GRADE INSTALLATION

| BREAKAWAY ANCHOR PARTS LIST | | | |
|-----------------------------|-------------------------------------|---------------------------|-----|
| NO. | DESCRIPTION | MATERIAL | QTY |
| (1) | SQUARE COUPLER TOP | CAST IRON | 1 |
| (2) | SEAL WASHER | 1/8" FOAM | 1 |
| (3) | COUPLER WEDGE (2") | CAST IRON | 1 |
| (4) | 1/2"-13X2 1/2" SERRATED FLANGE BOLT | GR. 8.2 ZINC PLATED STEEL | 1 |
| (5) | 1/2" INT/EXT WASHER, SERRATED | ZINC PLATED STEEL | 1 |
| (6) | 1/2"-13 X 1/2" SET SCREW | ZINC PLATED STEEL | 2 |
| (7) | 3/8"-16 X 3" HEX SOCKET HEAD BOLT | GRADE 2, ZINC PLATED | 2 |
| (8) | TUFNUT 3/8" - 16 | GRADE 5, YELLOW ZINC | 2 |
| (9) | HEAVY DUTY ANCHOR ADAPTER | CAST IRON | 1 |
| (10) | 2" SIGN POST | PSST 12 GAUGE | 1 |



NOTES:

1. ANCHOR ADAPTER MUST BE AT LEAST 1FT FROM SLAB EDGE, THERMAL JOINT, OR EXPANSION JOINT.
2. FOR FLUSH MOUNT SIGN POST INSTALLATION IN SIDEWALKS AND ISLANDS.
3. TORQUE CENTER BOLT (4) TO 110 FT.-LBS, SET SCREWS (6) SHALL BE TIGHTENED SECURELY SUCH THAT THE ENTIRE ASSEMBLY IS TIGHT.
4. FOR LEVEL INSTALLATIONS: THE ANCHOR (9) SHALL BE MOUNTED FLUSH SUCH THAT THE TOP OF THE LIP SURROUNDING THE TOP OF THE ADAPTER IS AT FINISH GRADE.
5. FOR SLOPED INSTALLATIONS: THE ANCHOR (9) SHALL BE MOUNTED FLUSH AT TOP OF FINISH GRADE RELATIVE TO THE UPPER SIDE OF THE SLOPE.
6. EXTREME CARE SHALL BE TAKEN TO ENSURE THE ANCHOR ASSEMBLY IS PLACED VERTICALLY IN THE GROUND. THE ENTIRE SIGN INSTALLATION SHALL BE PLUMB AND TIGHT WHEN INSTALLATION IS COMPLETE.
7. FOR OTHER INSTALLATION DETAILS FOLLOW MANUFACTURER'S INSTRUCTIONS.
8. ORIENT SERRATED WASHER WITH BLADES POINTING DOWN. WASHER IS ONE TIME USE ONLY.

APPROVED BY

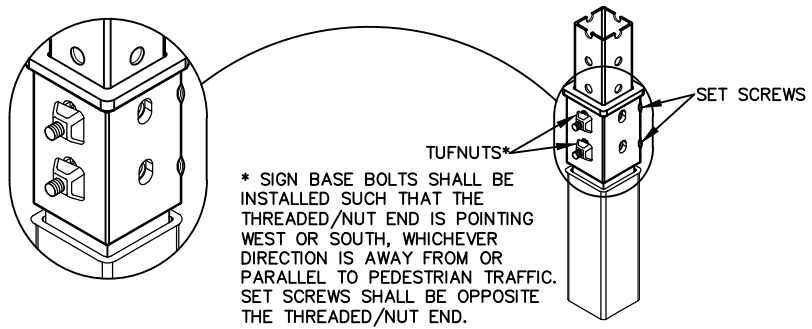
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 05/2017
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

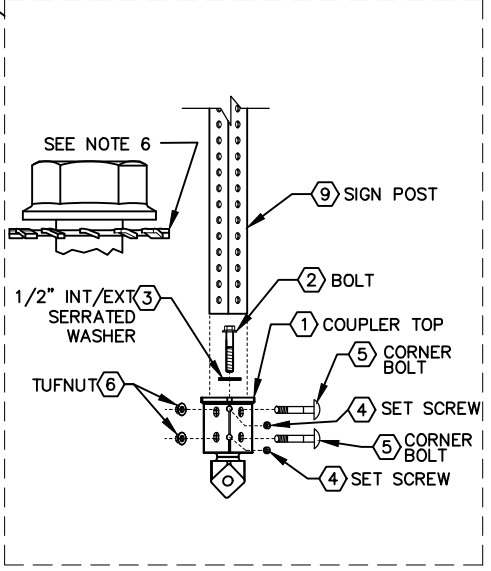
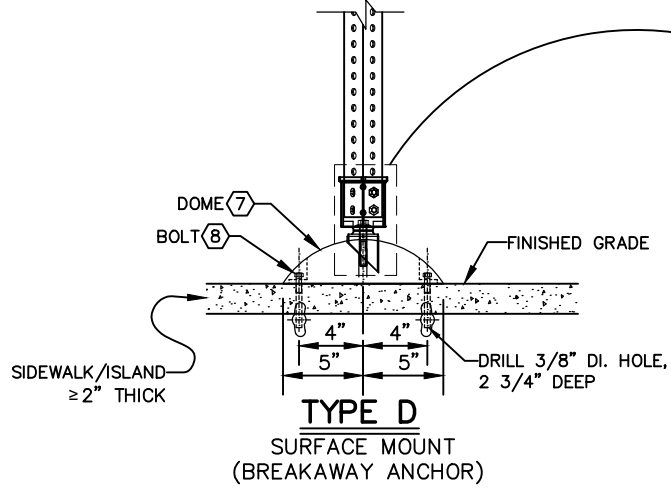
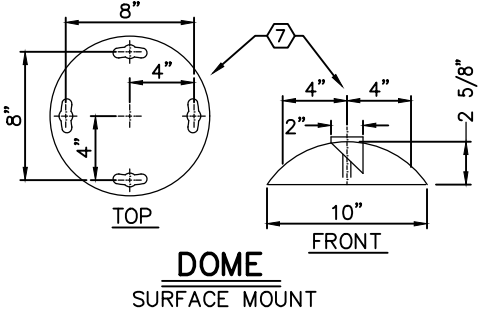
**SIGN POST INSTALLATION
TYPE C**

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN No.
G-10C



TUFNUT ORIENTATION DETAIL



| NO. | DESCRIPTION | MATERIAL | QTY |
|-----|---|-----------------------------|-----|
| 1 | SQUARE COUPLER TOP | CAST IRON | 1 |
| 2 | 1/2" - 13 X 2 1/2" SERRATED FLANGE BOLT | GRADE 8.2 ZINC PLATED STEEL | 1 |
| 3 | 1/2" INT/EXT WASHER, SERRATED | ZINC PLATED STEEL | 1 |
| 4 | 1/2" - 13 X 1/2" SET SCREW | ZINC PLATED STEEL | 2 |
| 5 | 5/16" - 18 X 2 1/2" CORNER BOLT | GRADE 2 ZINC PLATED STEEL | 2 |
| 6 | TUFNUT 5/16" - 18 | GRADE 5 YELLOW ZINC | 2 |
| 7 | ROUND DOME 10" DIAMETER X 2 5/8" | CAST ALUMINUM | 1 |
| 8 | 3/8" X 3" TIGHTEN HD | STEEL, ZINC FINISH | 4 |
| 9 | 2" X 2" SIGN POST | PSST 12 GAUGE | 1 |

BREAKAWAY ANCHOR PARTS LIST

NOTES:

- FOR SIGN POST INSTALLATION IN VAULTED SIDEWALKS AND ONLY WITH ENGINEERS APPROVAL.
- TORQUE CENTER BOLT (2) TO 110 FT.-LBS, SET SCREWS (4) SHALL BE TIGHTENED SECURELY SUCH THAT THE ENTIRE ASSEMBLY IS TIGHT.
- THE ANCHOR HOLE SHALL BE DRILLED TO 3/8" DIAMETER. THE HOLE SHALL BE FREE OF DEBRIS BEFORE PLACING TIGHTEN HD SCREW INTO HOLE.
- FOR SLOPED INSTALLATIONS: LEVEL BREAKAWAY DOME BY STACKING WASHERS SO THAT ENTIRE SIGN INSTALLATION IS PLUMB. USE LONGER BOLTS '8' AS NECESSARY TO ACHIEVE MINIMUM ANCHOR PENETRATION. GROUT VOID BETWEEN SIDEWALK AND BREAKAWAY DOME. DO NOT INSTALL BREAKAWAY DOME SIGN SUPPORT IF LEVELING WASHER HEIGHT EXCEEDS 1 1/2": CORE AND REPLACE SIDEWALK TO INSTALL TYPE C BREAKAWAY ANCHOR SIGN SUPPORT INSTEAD.
- FOR OTHER INSTALLATION DETAILS FOLLOW MANUFACTURER'S INSTRUCTIONS.
- ORIENT SERRATED WASHER WITH BLADES POINTING DOWN. WASHER IS ONE TIME USE ONLY.

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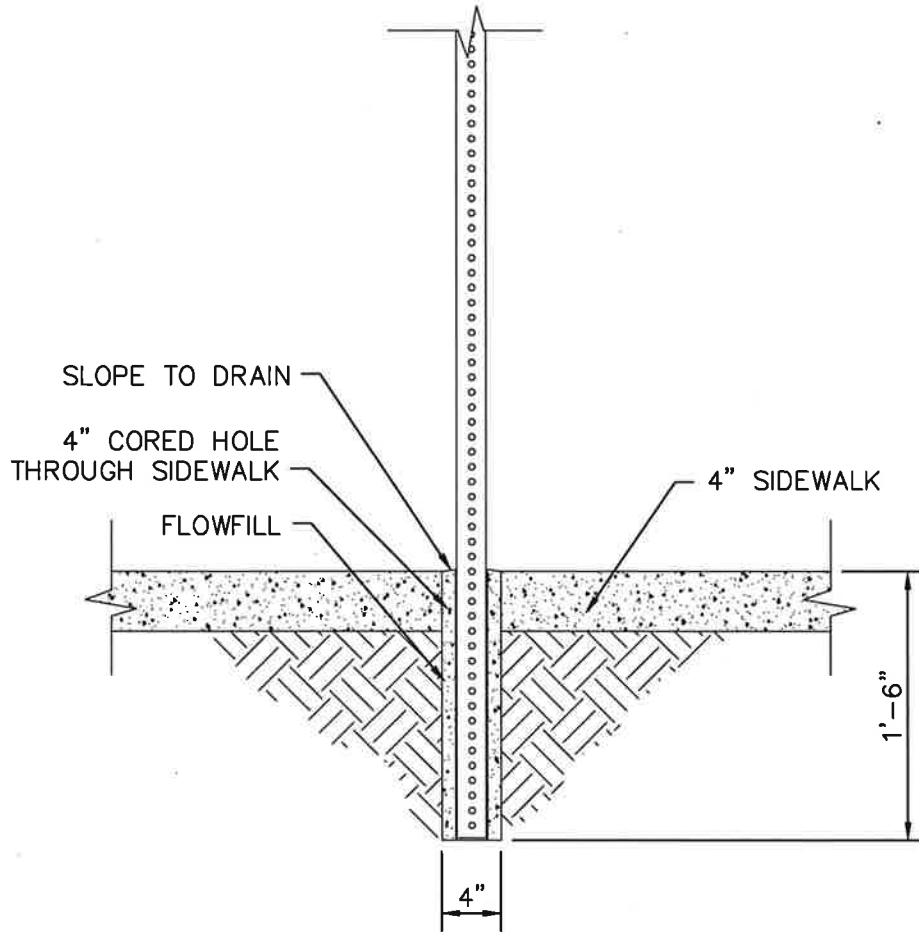
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.




ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 01/2017
 CHECKED BY: GTO
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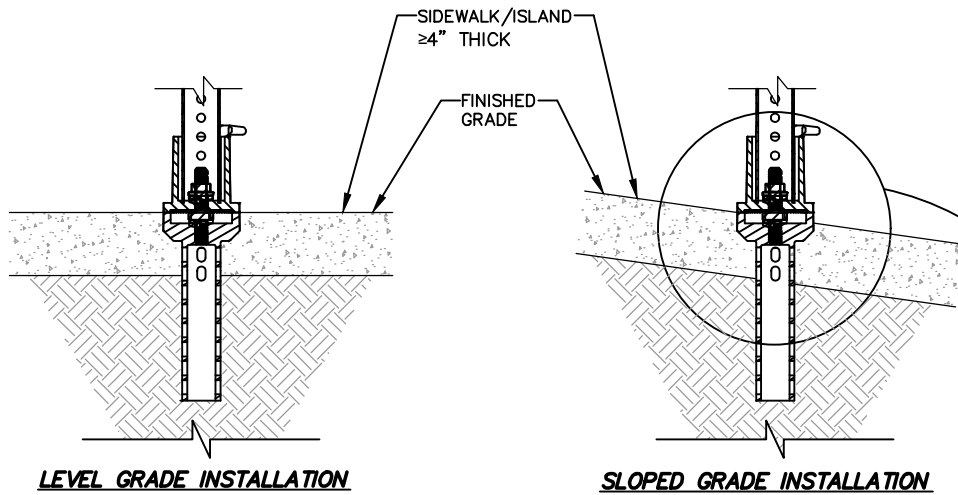
**SIGN POST INSTALLATION
 TYPE D**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

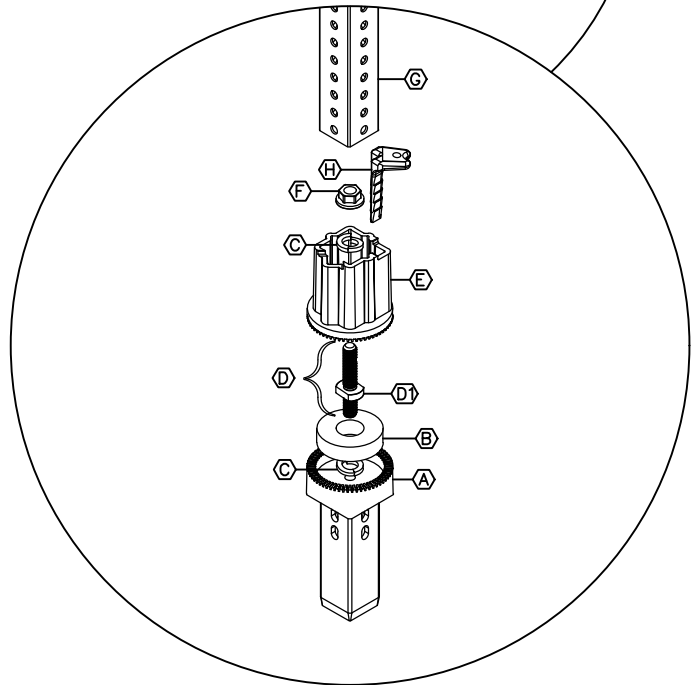
STANDARD
 PLAN No.
G-10D



| | | | |
|--|--|--|---|
| <p>APPROVED BY</p> <p> ENGINEERING OPERATIONS MANAGER KYLE TWOHIG</p> <p> CITY ENGINEER DANIEL ALBERT BULLER, P.E.</p> | <p>ADOPTED: 1/2017</p> <p>REVISED: _____</p> <p>SUPERSEDES: _____</p> <p>CHECKED BY: GTO</p> <p>SCALE: NTS</p> <p>DWG/REV. BY: MLD</p> | <p>SIGN POST INSTALLATION TYPE E</p> <p> ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> | <p>STANDARD PLAN No. G-10E</p> |
|--|--|--|---|



| BREAKAWAY ANCHOR PARTS LIST | |
|-----------------------------|-------------------------------|
| ITEM NO. | DESCRIPTION |
| (A) | BOTTOM HALF COUPLER |
| (B) | RUBBER BUSHING |
| (C) | LOCK WASHER |
| (D) | 5/8" - 11 X 4" SHEAR BOLT |
| (D1) | SHOULDER |
| (E) | TOP HALF COUPLER |
| (F) | 5/8" - 11 SERRATED FLANGE NUT |
| (G) | SIGN SUPPORT |
| (H) | SIGN SUPPORT LOCKING WEDGE |



NOTES:

1. ANCHOR ADAPTER MUST BE AT LEAST 1FT FROM SLAB EDGE, THERMAL JOINT, OR EXPANSION JOINT.
2. FOR FLUSH MOUNT SIGN POST INSTALLATION IN SIDEWALKS AND ISLANDS.
3. FOR LEVEL INSTALLATIONS THE TOP OF THE LIP SURROUNDING THE TOP OF THE ADAPTER IS AT FINISH GRADE.
4. FOR SLOPED INSTALLATIONS THE TOP OF THE LIP SURROUNDING THE TOP OF THE ADAPTER SHALL BE MOUNTED FLUSH AT TOP OF FINISH GRADE RELATIVE TO THE UPPER SIDE OF THE SLOPE.
5. EXTREME CARE SHALL BE TAKEN TO ENSURE THE ANCHOR ASSEMBLY IS PLACED VERTICALLY IN THE GROUND. THE ENTIRE SIGN INSTALLATION SHALL BE PLUMB AND TIGHT WHEN INSTALLATION IS COMPLETE.
6. FOR OTHER INSTALLATION DETAILS FOLLOW MANUFACTURER'S INSTRUCTIONS.
7. ORIENT SERRATED WASHER WITH BLADES POINTING DOWN. WASHER IS ONE TIME USE ONLY.
8. TIGHTEN SHEAR BOLT (D) UNTIL SPLIT WASHER IS FULLY COMPRESSED.
9. TORQUE FLANGE NUT (F) TO A MINIMUM OF 105 FT-LBS AND A MAXIMUM OF 110 FT-LBS

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

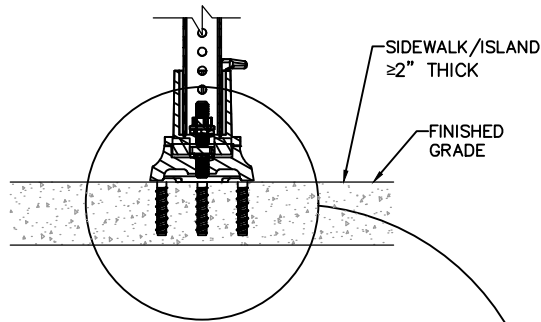
ADOPTED: 04/2023
 REVISED: _____
 SUPERSEDES: _____
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH



**SIGN POST INSTALLATION
 TYPE F**

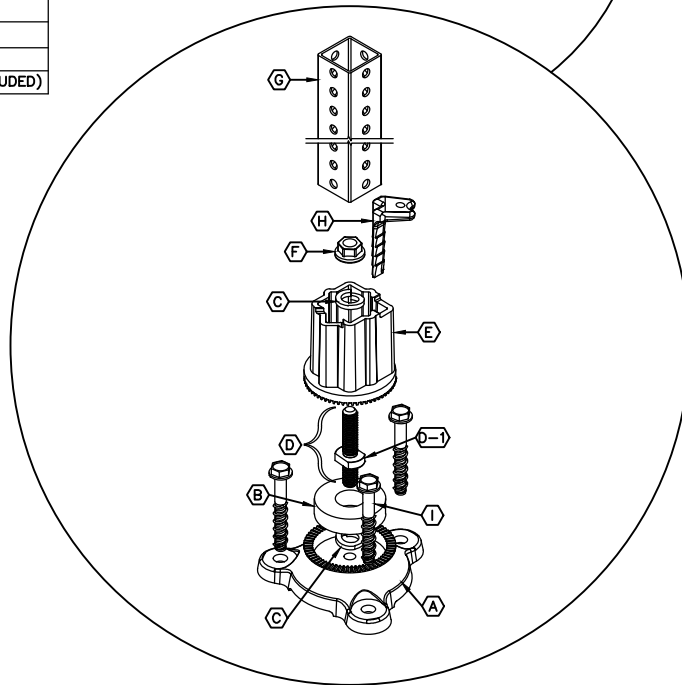
ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-10F



LEVEL GRADE INSTALLATION

| BREAKAWAY ANCHOR PARTS LIST | |
|-----------------------------|---|
| ITEM NO. | DESCRIPTION |
| (A) | SURFACE MOUNT ANCHOR BASE |
| (B) | RUBBER BUSHING |
| (C) | LOCK WASHER |
| (D) | 5/8" - 11 x 4" SHEAR BOLT |
| (D-1) | SHOULDER |
| (E) | TOP HALF COUPLER |
| (F) | 5/8" - 11 SERRATED FLANGE NUT |
| (G) | SIGN SUPPORT |
| (H) | SIGN SUPPORT LOCKING WEDGE |
| (I) | CONCRETE MOUNTING FASTENER (NOT INCLUDED) |



NOTES:


1. ANCHOR ADAPTER MUST BE AT LEAST 1FT FROM SLAB EDGE, THERMAL JOINT, OR EXPANSION JOINT.
2. FOR SIGN POST INSTALLATION IN VAULTED SIDEWALKS AND ONLY WITH ENGINEERS APPROVAL.
3. THE ANCHOR HOLE SHALL BE DRILLED TO $\frac{3}{8}\phi$, THE HOLE SHALL BE FREE OF DEBRIS BEFORE PLACING TIGHTEN HD SCREW INTO HOLE.
4. FOR INSTALLATION OF SLOPE GRADES, LEVEL BREAKAWAY DOME BY STACKING WASHERS SO THAT ENTIRE SIGN INSTALLATION IS PLUMB. USE LONGER BOLTS AS NECESSARY TO ACHIEVE MINIMUM ANCHOR PENETRATION. GROUT VOID BETWEEN SIDEWALK AND BREAKAWAY DOME. DO NOT INSTALL BREAKAWAY DOME SIGN SUPPORT IF LEVELING WASHER HEIGHT EXCEEDS 1-1/2": CORE AND REPLACE SIDEWALK TO INSTALL TYPE F BREAKAWAY ANCHOR SIGN SUPPORT INSTEAD.
5. FOR OTHER INSTALLATION DETAILS FOLLOW MANUFACTURER'S INSTRUCTIONS.
6. ORIENT SERRATED WASHER WITH BLADES POINTING DOWN. WASHER IS ONE TIME USE ONLY.
8. TIGHTEN SHEAR WASHER (D) UNTIL SPLIT WASHER IS FULLY COMPRESSED.
9. TORQUE FLANGE NUT (F) TO A MINIMUM OF 105 FT-LBS AND A MAXIMUM OF 110 FT-LBS

APPROVED BY

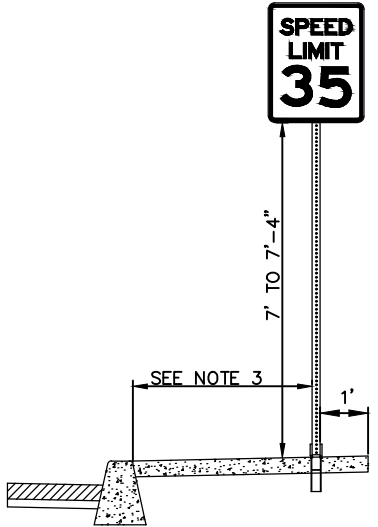
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: 04/2023
 REVISED: _____
 SUPERSEDES: _____
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

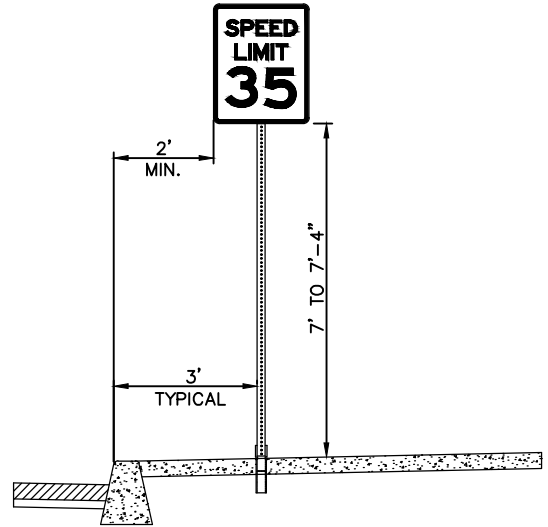
SIGN POST INSTALLATION
 TYPE G

 ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

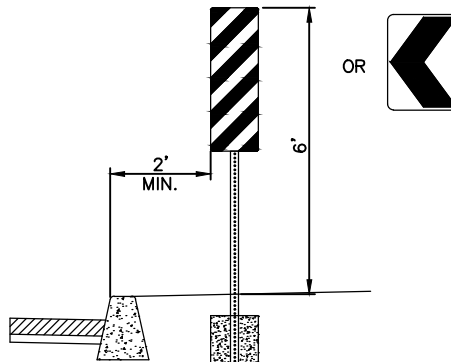
STANDARD
 PLAN No.
G-10G



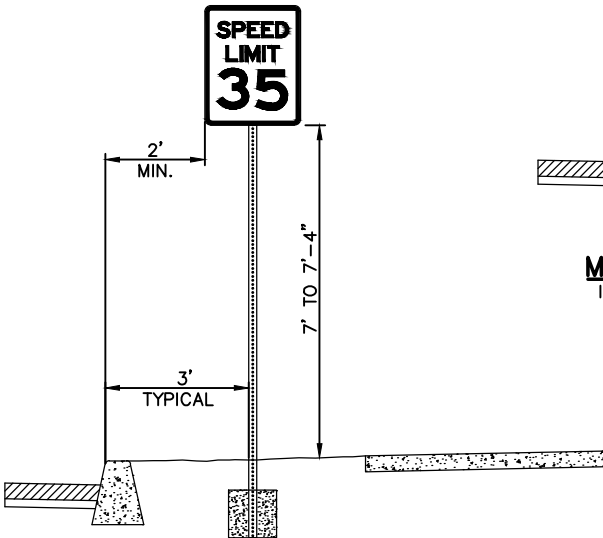
CURB AND SIDEWALK
(WITH OR WITHOUT PLANTER STRIP)
TOTALING 5' TO 8'



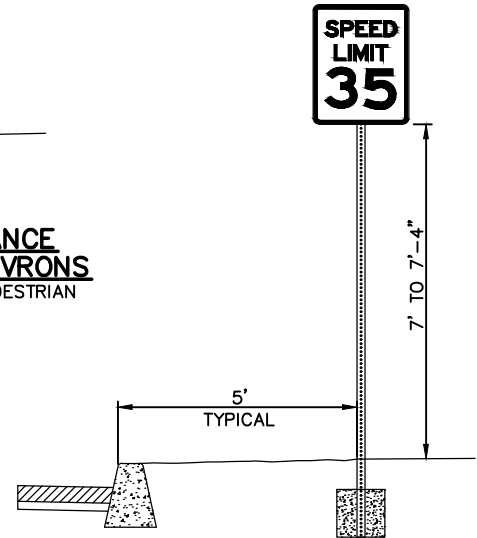
CURB AND SIDEWALK
GREATER THAN 8'



LATERAL CLEARANCE MARKERS AND CHEVRONS
INSTALLED OUTSIDE OF PEDESTRIAN PATHWAY



COMBINATION OF CURB, PLANTING STRIP AND SIDEWALK
GREATER THAN 8'



NO SIDEWALK OR SIDEWALK LESS THAN 5'

NOTES:

1. ANCHOR ADAPTER MUST BE AT LEAST 1' FROM SLAB EDGE, THERMAL JOINT, OR EXPANSION JOINT.
2. THESE ARE TYPICAL LOCATIONS. SIGNS MAY BE LOCATED AT ANY PLACE WITHIN THE RIGHT OF WAY TO MEET ADA REQUIREMENTS, VERTICAL CLEARANCE, LATERAL CLEARANCE AND VISIBILITY REQUIREMENTS AS DETERMINED BY THE STREET DEPARTMENT DIRECTOR.
3. 4FT MINIMUM PEDESTRIAN ACCESS ROUTE REQUIRED BETWEEN SIGN POST AND BACK OF CURB.

APPROVED BY
[Signature]
DAN BULLER, P.E.
DIRECTOR OF ENGINEERING SERVICES

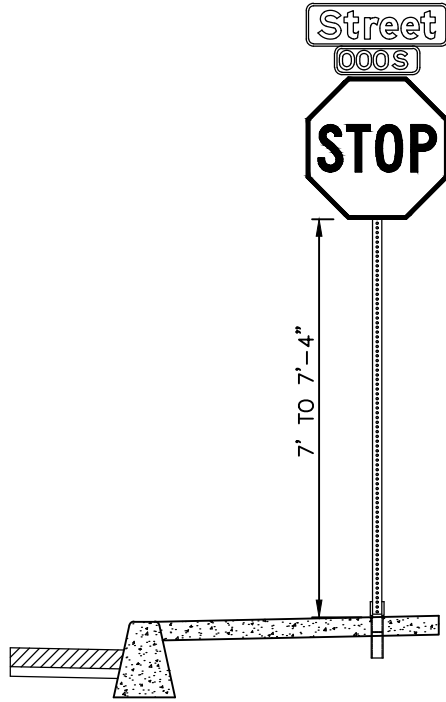
ADOPTED: _____
REVISED: 04/2023
SUPERSEDES: 01/2017
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: BDH

**HEIGHTS AND LATERAL LOCATIONS
ROADSIDE**



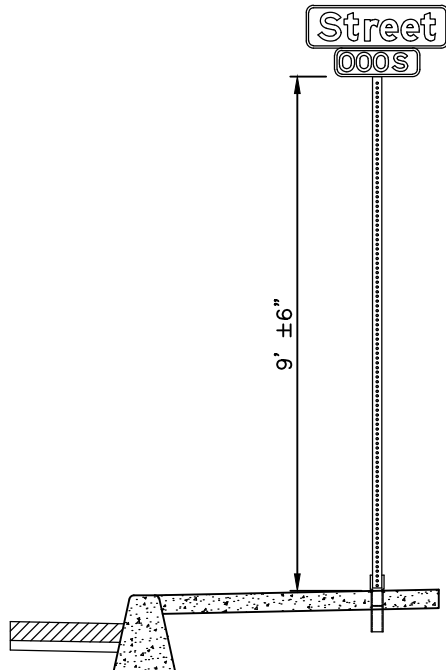
ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN No.
G-20A




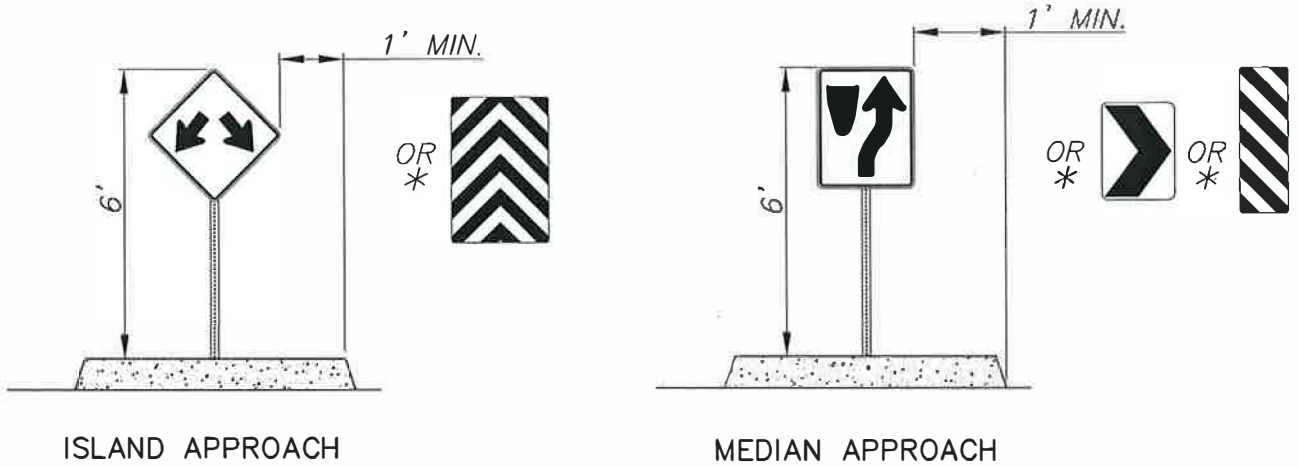
STREET NAME WITH STOP

NOTE: REFER TO G-20A FOR LATERAL OFFSETS

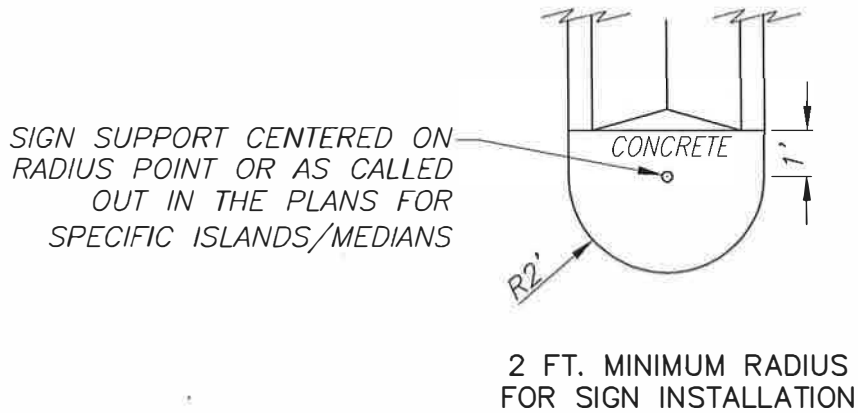


STREET NAME WITHOUT STOP

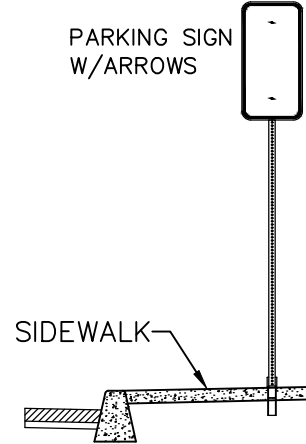
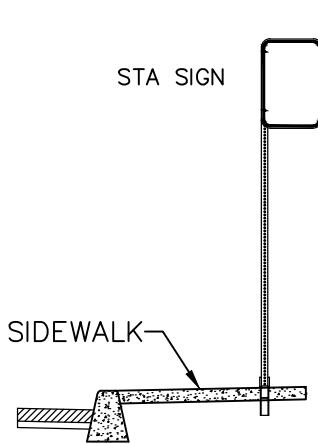
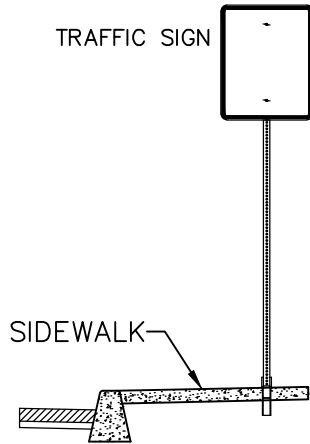
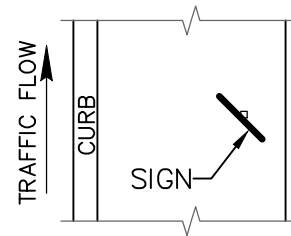
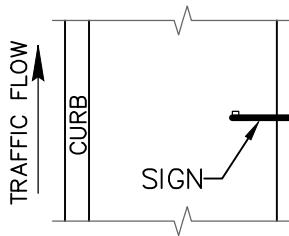
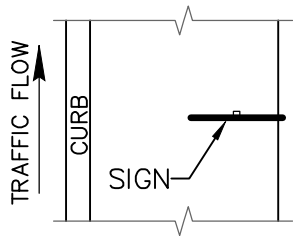
| | | | |
|---|--|--|---|
| <p>APPROVED BY</p>  <p>DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.</p> | <p>ADOPTED: _____</p> <p>REVISED: 04/2023</p> <p>SUPERSEDES: 01/2017</p> | <p>HEIGHTS AND LATERAL LOCATIONS ROADSIDE – STREET NAME</p> | <p>STANDARD PLAN No. G-20B</p> |
| | <p>CHECKED BY: GTO</p> <p>SCALE: NTS</p> <p>DWG/REV. BY: BDH</p> | | |



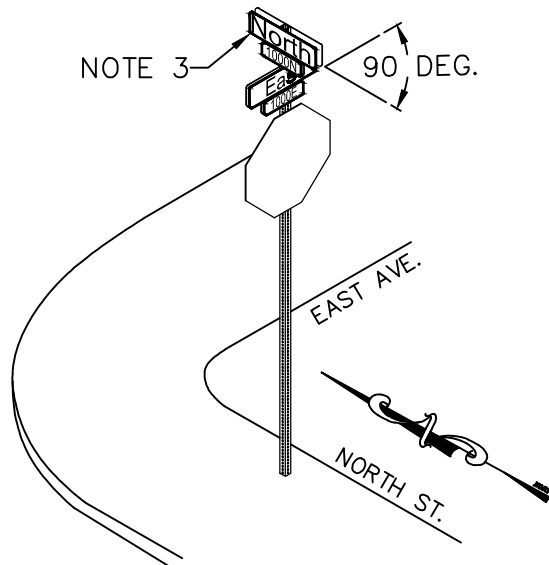
* REFER TO MUTCD FOR SPECIFIC APPLICATION



| | | |
|---|---|--|
| <p>APPROVED BY</p> <p>DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.</p> <p>PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.</p> | <p>ADOPTED: 01/2012</p> <p>REVISED: _____</p> <p>SUPERSEDES: _____</p> <p>CHECKED BY: GTQ</p> <p>SCALE: NTS</p> <p>DWG/REV. BY: JHM</p> | <p>HEIGHTS AND LATERAL LOCATIONS ISLANDS AND MEDIANS</p> |
| | | <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> |
| | | <p>STANDARD PLAN No. G-21</p> |



APPROACHING VIEWS



STREET NAME SIGNS

NOTES:

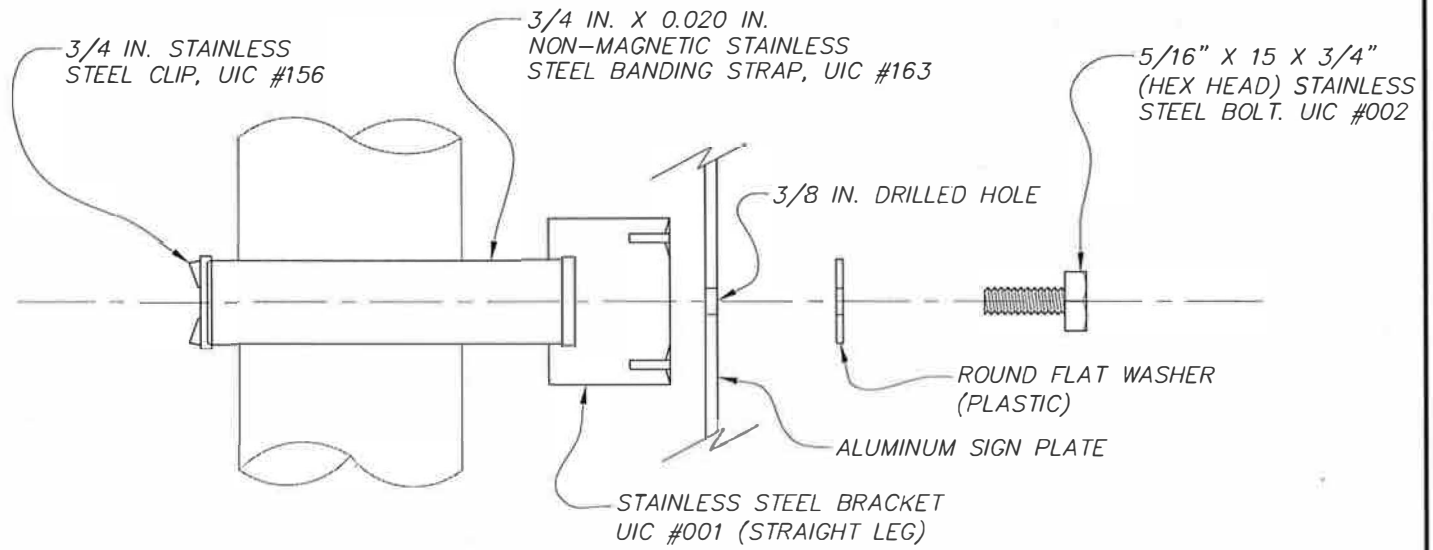
1. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL SIGN POSTS ARE TO BE INSTALLED PERPENDICULAR TO THE ADJACENT CURB LINE. USE TL019 BRACKET FOR 45 DEGREE OFFSET.
2. PARKING SIGNS WITH ARROW WILL BE INSTALLED AT 45° TOWARD ROADWAY.
3. THE TOP NAME/BLOCK PLATE IS OF THE STREET RUNNING MOST TRUE NORTH-SOUTH.
4. A 4FT MINIMUM PEDESTRIAN ACCESS ROUTE IS REQUIRED BETWEEN SIGN POST AND BACK OF CURB.

APPROVED BY

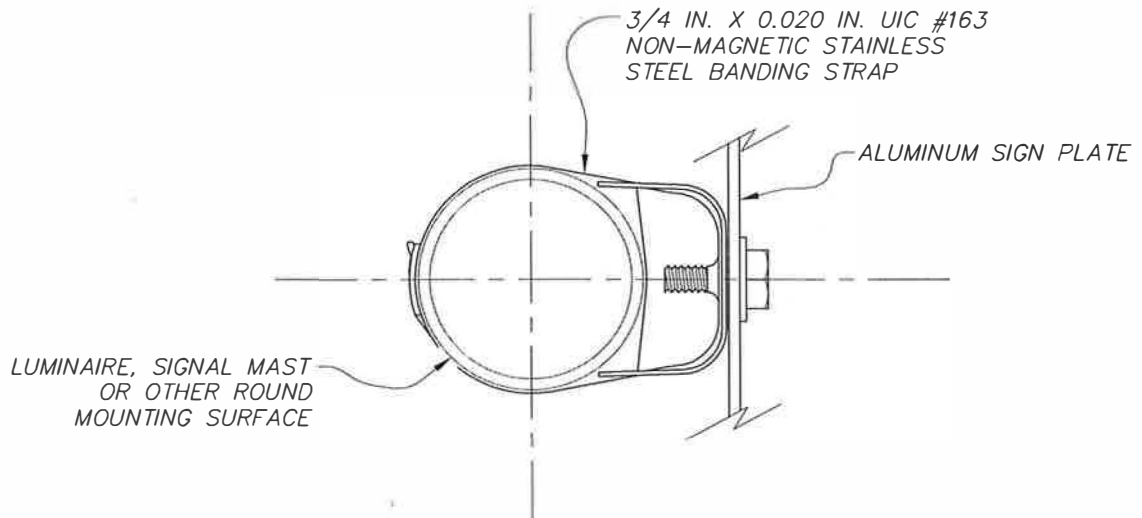
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 04/2013
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH




| | |
|---|-------------------------------------|
| SIGN ORIENTATION | |
|  ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON | STANDARD PLAN No. G-22 |

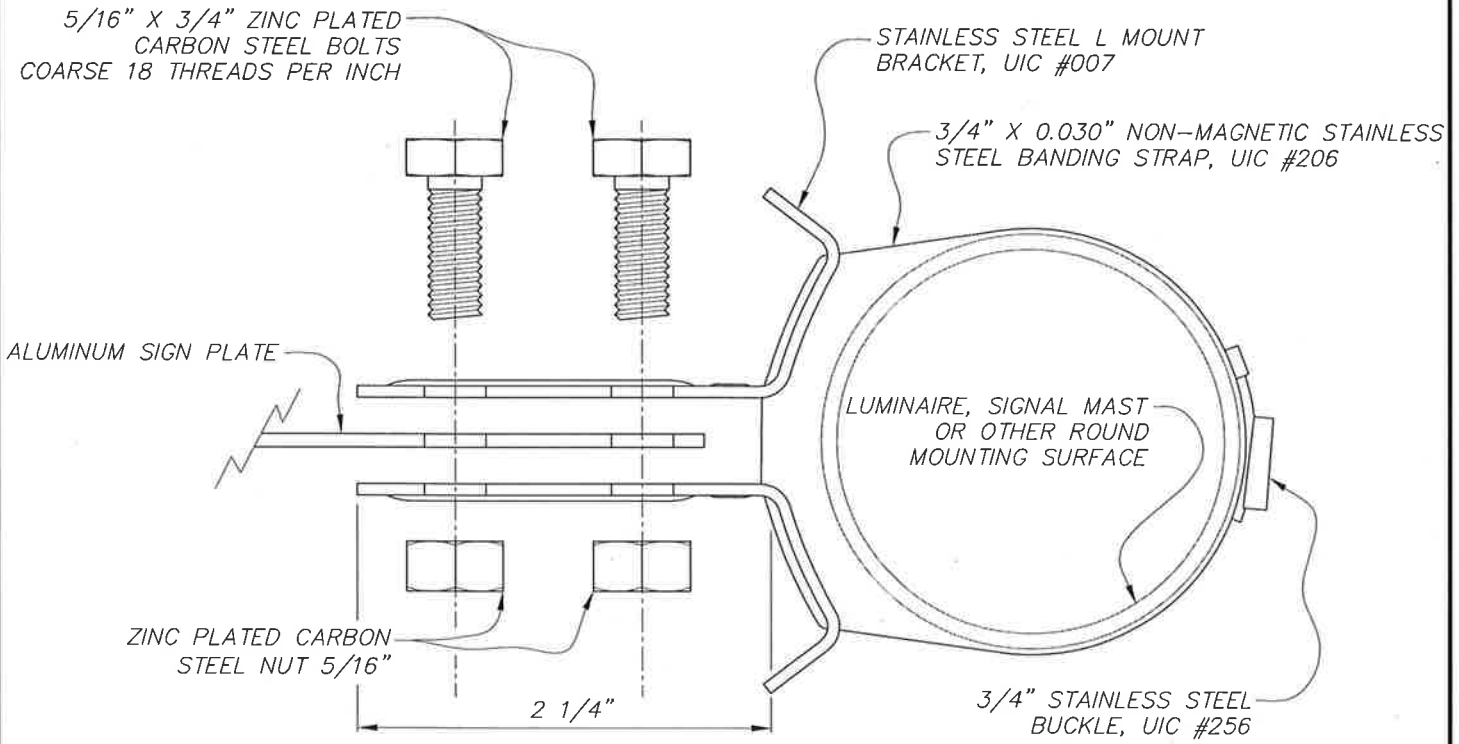


SIDE VIEW

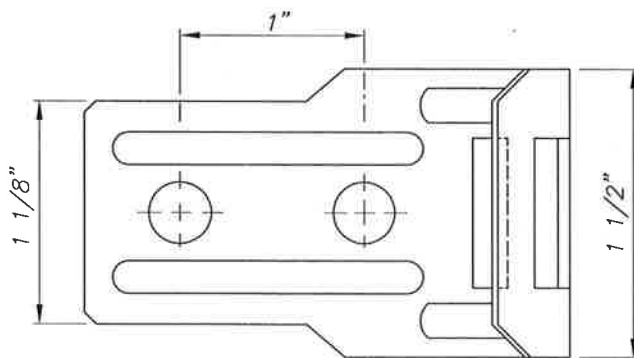


TOP VIEW

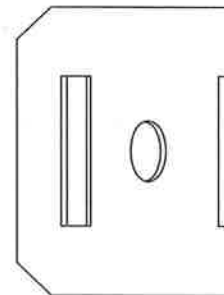
| | | |
|---|---|---|
| <p>APPROVED BY</p>  <p>DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.</p>  <p>PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.</p> | <p>ADOPTED: 01/2012</p> <p>REVISED: _____</p> <p>SUPERSEDES: _____</p> <p>CHECKED BY: GTO</p> <p>SCALE: NTS</p> <p>DWG/REV. BY: JHM</p> | <p>SIGN MOUNTING HARDWARE ROUND SURFACE</p>  <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> <p>STANDARD PLAN No. G-30A</p> |
|---|---|---|



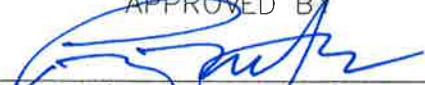


TOP VIEW

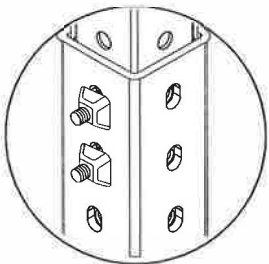
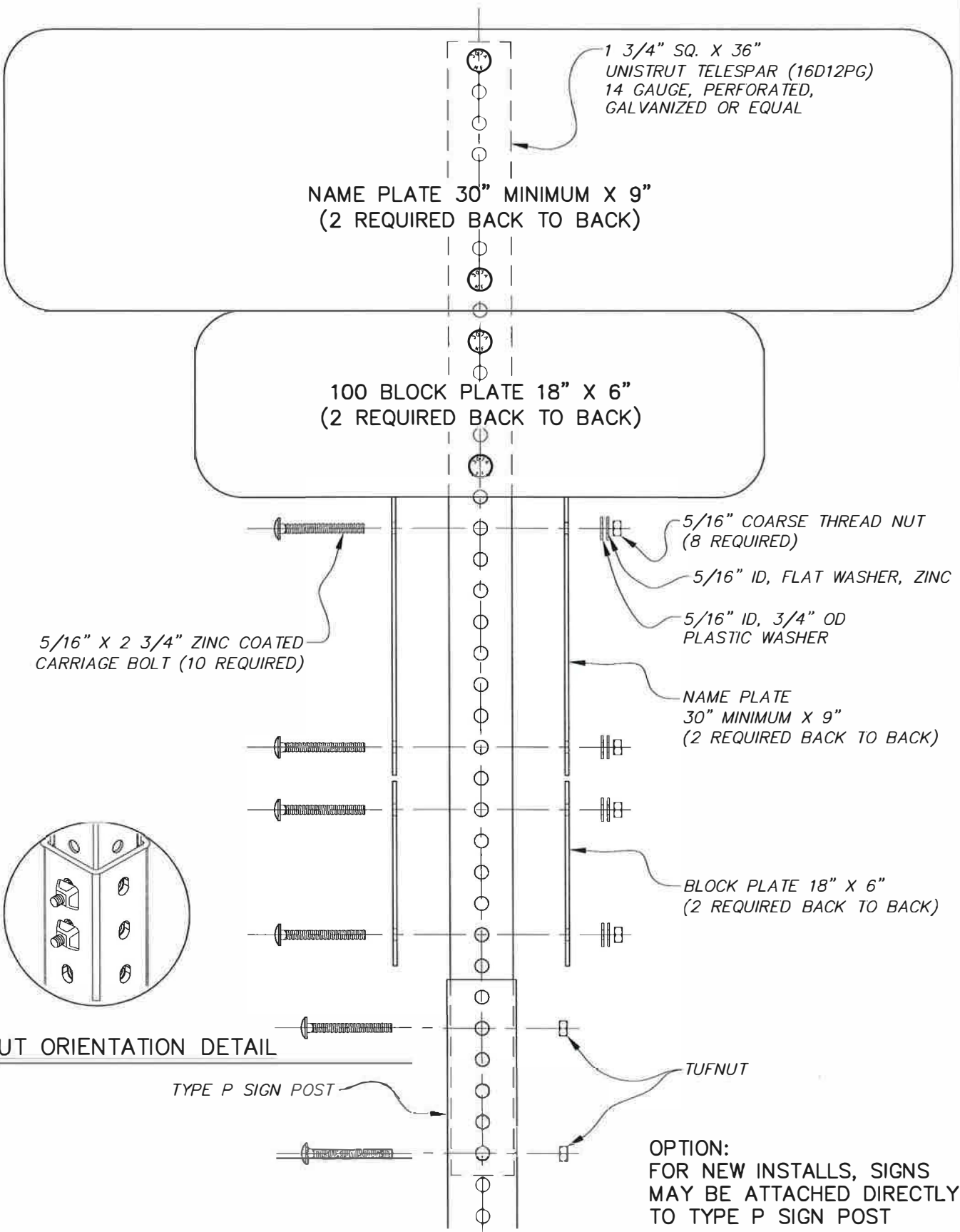


SIDE VIEW



END VIEW

| | | |
|---|---|---|
| <p>APPROVED BY</p>  <p>DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.</p>  <p>PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.</p> | <p>ADOPTED: 01/2012 REVISED: SUPERSEDES: CHECKED BY: GTO SCALE: NTS DWG/REV. BY: JHM</p> | <p>SIGN MOUNTING HARDWARE ROUND SURFACE - CANTILEVER</p>  <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> <p>STANDARD PLAN No. G-30B</p> |
|---|---|---|



TUFNUT ORIENTATION DETAIL

TYPE P SIGN POST

APPROVED BY

 ENGINEERING OPERATIONS MANAGER KYLE TWOHIG

 PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

ADOPTED: 01/2012
 REVISED: 03/2014
 SUPERSEDES: 01/2012
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: MLO

SIGN MOUNTING HARDWARE
 STREET NAME PLATED

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
 G-31

SIGNING BY SHEET TYPE

1. ALL SHEETING IS TO MEET, AND NOT EXCEED, THE LISTED ASTM D4956-04 "TYPE" DESIGNATIONS.
2. THE CITY OF SPOKANE REQUIRES THAT ALL SIGN BACKGROUND AND LEGEND COLORS SHALL BE RETROREFLECTIVE EXCEPT FOR BLACK WHICH SHALL BE OPAQUE.
3. THE CITY OF SPOKANE REQUIRES THAT ALL SIGNING INSTALLED BELOW FIFTEEN FEET SHALL HAVE TYPE IV SHEETING.
4. THE CITY OF SPOKANE REQUIRES THAT ALL SIGNS INSTALLED AT OR ABOVE FIFTEEN FEET SHALL HAVE TYPE IX SHEETING.
5. THE CITY OF SPOKANE REQUIRES THAT ALL SIGNS MOUNTED ABOVE A TRAFFIC OR PEDESTRIAN SIGNAL SHALL HAVE TYPE IX SHEETING.
6. SIGN HEIGHT IS TO BE MEASURED FROM THE ROADWAY SURFACE CLOSEST TO THE SIGN MOUNT APPARATUS TO THE BASE OF THE SIGN.
7. THE FOLLOWING CHART IS A LIST OF EXCEPTIONS TO NOTES 3, 4, & 5.
8. THE FLUORESCENT YELLOW-GREEN COLOR IS RESERVED FOR S SERIES SIGNS ONLY.

| SIGN CODE/SERIES | TYPE I (BEADED ENG. GRADE) | TYPE IV (PRISMATIC HIGH INTENSITY) | TYPE VIII OR TYPE IX (PRISMATIC) |
|------------------------|----------------------------------|--|--|
| R7 SERIES | X | | |
| R8 SERIES | X | | |
| R9 SERIES | X | | |
| R10-1 - R10-4b | X | | |
| BLUE BACKGROUND SIGNS | X | | |
| BROWN BACKGROUND SIGNS | X | | |
| S5-1 | | X | X |
| S5-15 | | X | X |
| S5-20 | | X | X |
| S12-1 | | | X |
| S16-7 | | | X |
| S16-9 | | | X |

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 03/2014
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

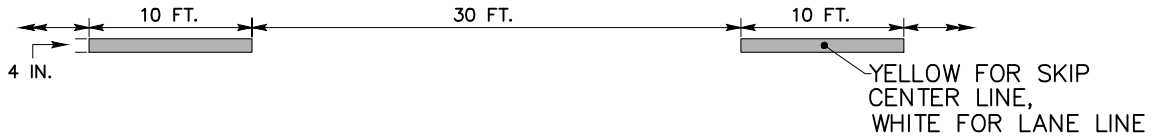


TRAFFIC SIGNS SHEETING SPECIFICATION

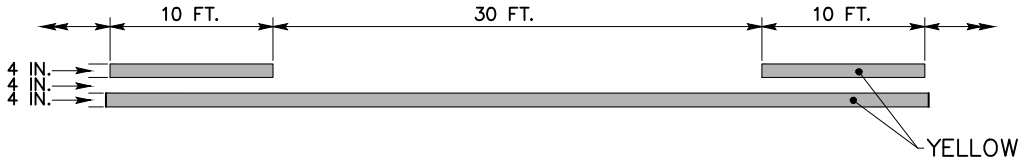
ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN No.
G-40

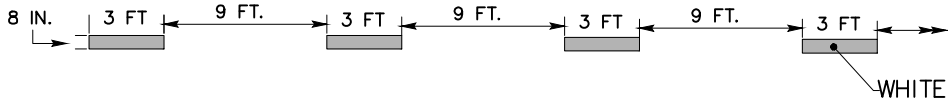
SKIP CENTER LINE AND LANE LINE



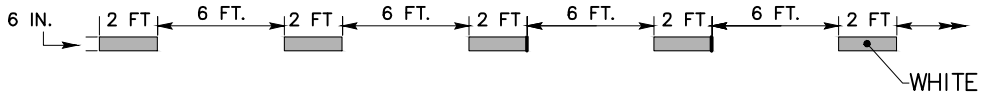
NO-PASS LINE AND TWO-WAY LEFT TURN LINE



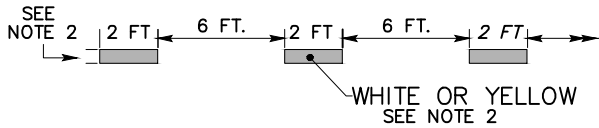
DOTTED WIDE LINE (DROP LANE STRIPE, DASHED GORE STRIPE)



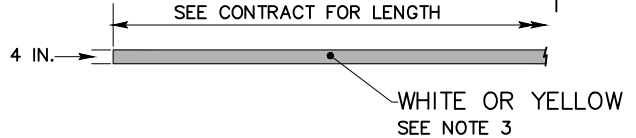
DOTTED BICYCLE LANE LINE



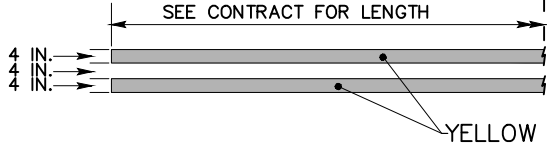
DOTTED EXTENSION LINE



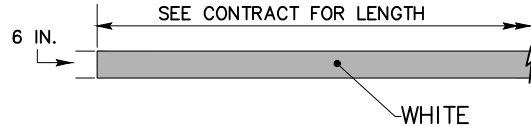
EDGE LINE



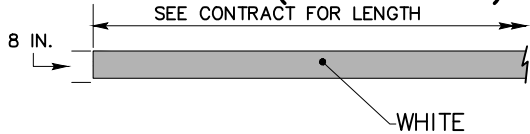
DOUBLE YELLOW CENTER LINE



BIKE LANE LINE



WIDE LINE (GORE STRIPE)



NOTES

1. SEE THE STANDARD PLANS FOR PAVEMENT MARKING DETAILS.
2. DOTTED EXTENSION LINE SHALL BE THE SAME COLOR AND WIDTH AS THE LINE IT IS EXTENDING.
3. EDGE LINE SHALL BE WHITE ON RIGHT EDGE OF TRAVELED WAY AND YELLOW ON LEFT EDGE OF TRAVELED WAY ON ONE WAY ROADWAYS.
4. INSTALL PREFORMED THERMOPLASTIC FOR ALL LINES.
5. SEE CONTRACT FOR GROOVING REQUIREMENTS.
6. LANE WIDTHS ARE MEASURED TO THE CENTER OF THE LINE OR LINE PATTERN.

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

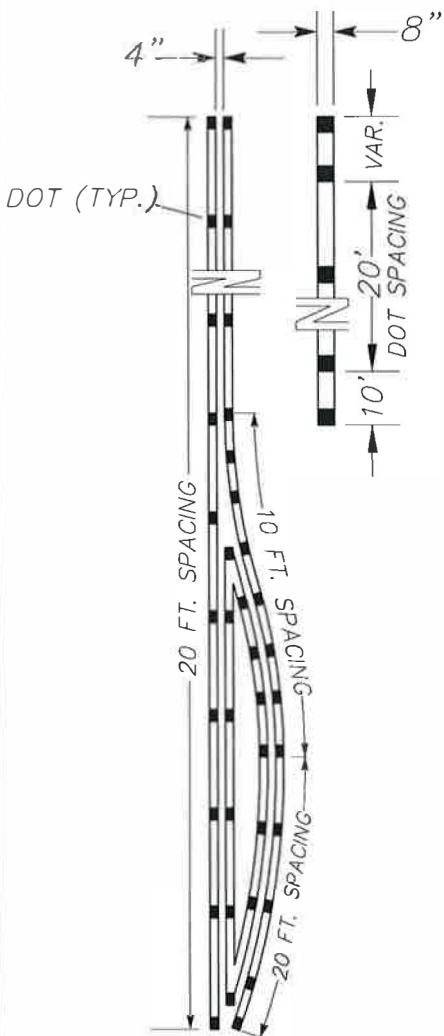
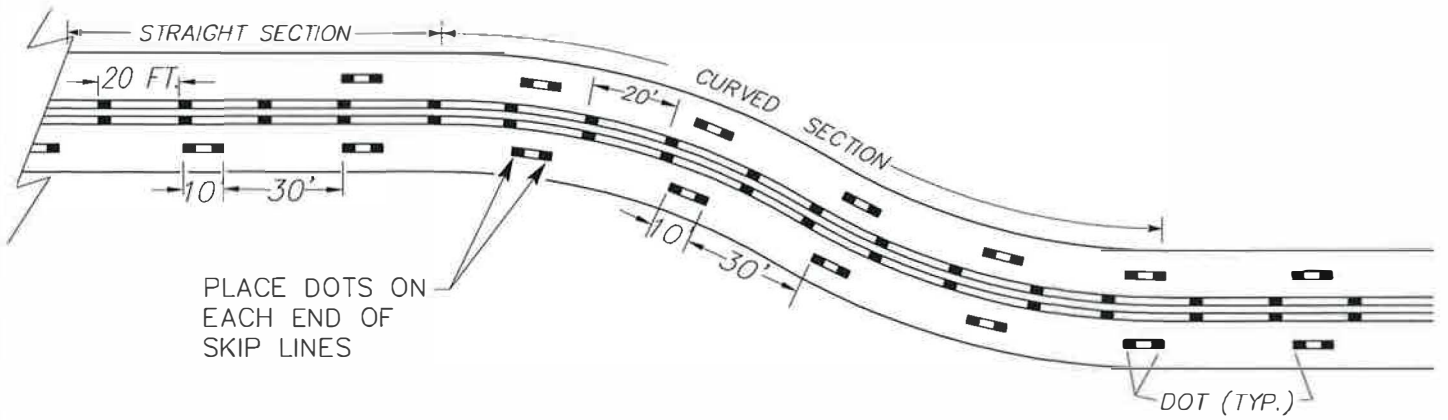
ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 11/2018
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH



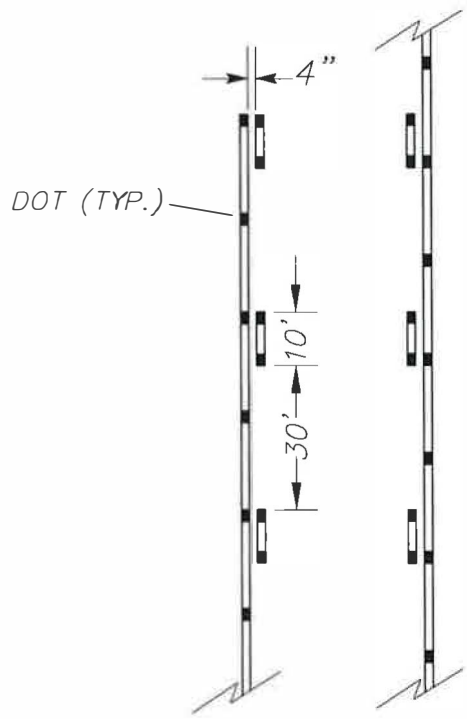
PAVEMENT MARKINGS LONGITUDINAL LAYOUT

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

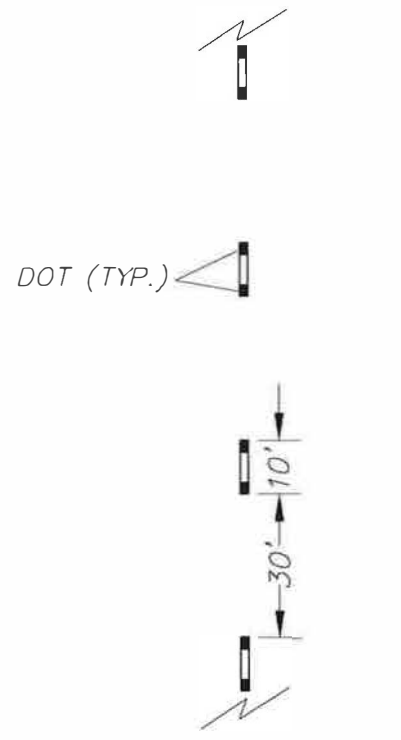
STANDARD
PLAN No.
G-50A



PAINTED LEFT TURN CHANNEL



TWO WAY LEFT TURN CHANNEL



SKIP CENTER LINE

NOTES:

1. A DOT IS A PREFORMED HEAT APPLIED DURABLE MARKING, IN ACCORDANCE WITH CITY SPECIFICATIONS AND STANDARDS.
2. DOTS SHALL BE SQUARES 4"X6", 6"X6", or 8"X8".
3. DOTS SHALL BE INSTALLED WHERE PAINT MARKINGS WILL BE INSTALLED PRIOR TO PAINT APPLICATION.
4. PAINTED EDGE LINES, PARKING LANE LINES & BICYCLE LANE LINES SHALL HAVE DOTS AT BEGINNING, END & 40' APART.

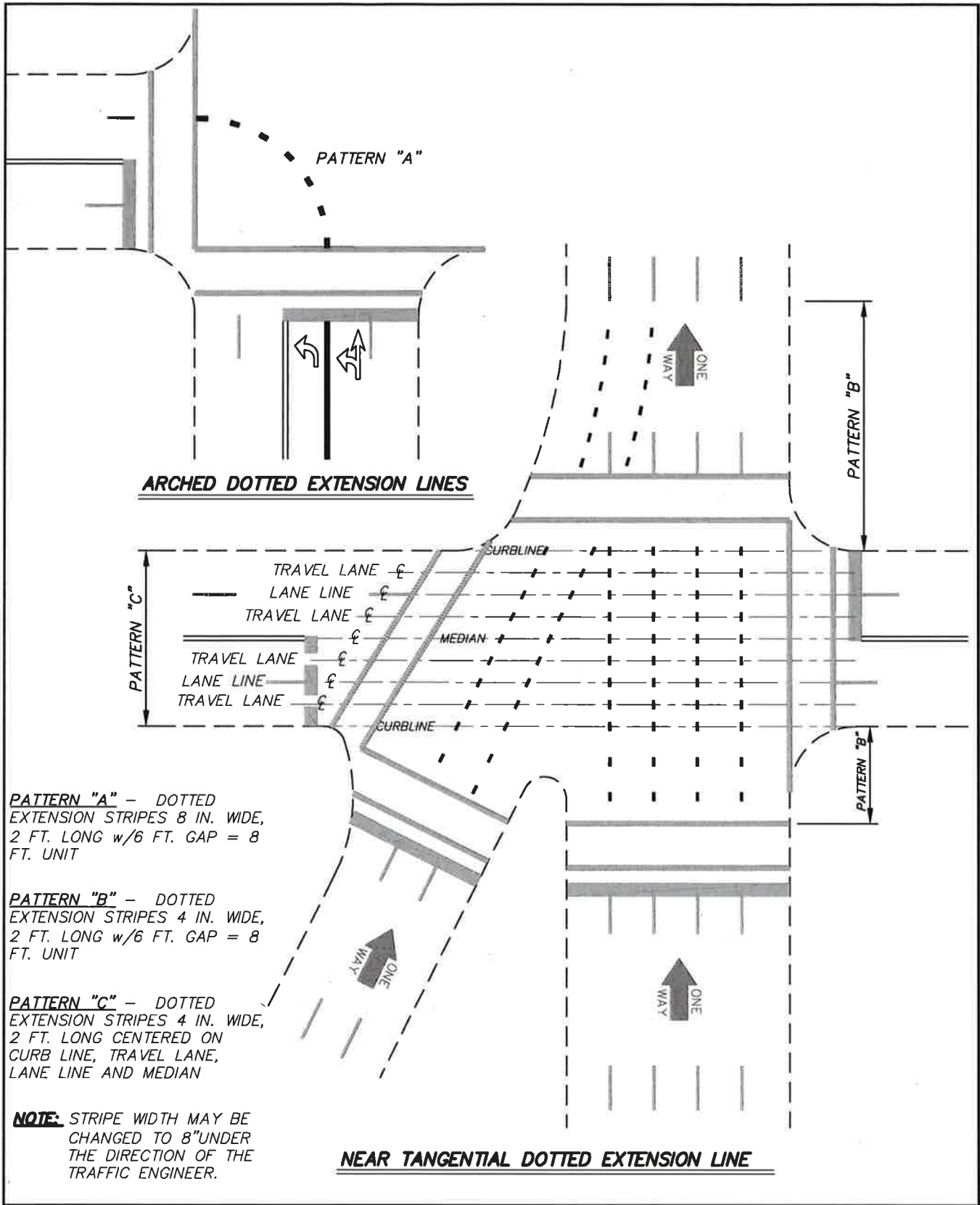
APPROVED BY

 ENGINEERING OPERATIONS MANAGER KYLE TWOHIG

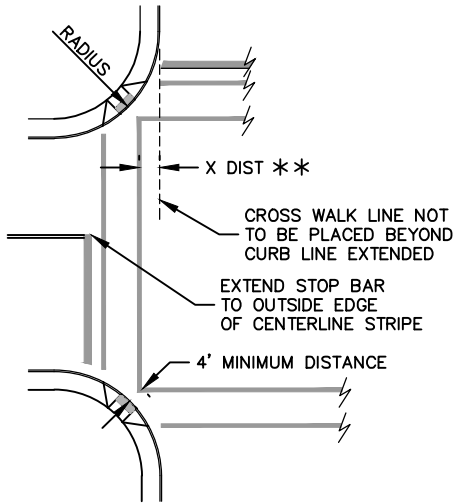
 PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

ADOPTED: 01/2012
 REVISED: 02/2015
 SUPERSEDES: 03/2014
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: MLO

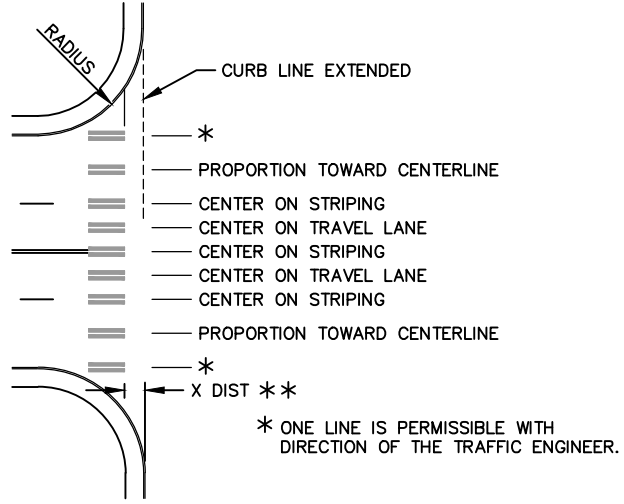
| | |
|---|-------------------------------|
| PAVEMENT MARKINGS LONGITUDINAL LAYOUT-DOTS | |
|  ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON | STANDARD PLAN No. G-50B |



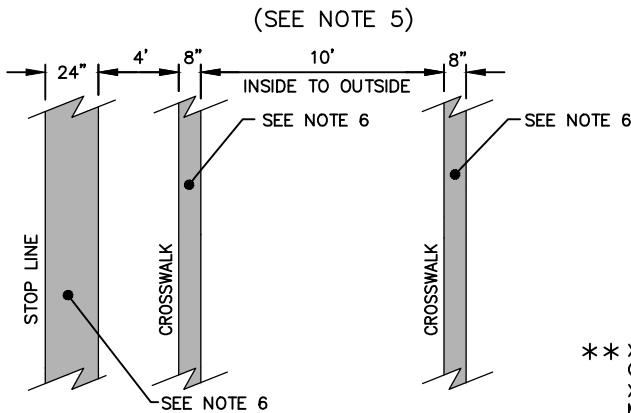
| | | | |
|--|---|---|--|
| <p>APPROVED BY</p>  <p>ENGINEERING OPERATIONS MANAGER KYLE TWOHIG</p>  <p>CITY ENGINEER DANIEL ALBERT BULLER, P.E.</p> | <p>ADOPTED: 01/2012 REVISED: 01/2017 SUPERSEDES: 01/2012 CHECKED BY: GTO SCALE: NTS DWG/REV. BY: SRM/MLD</p> | <p>PAVEMENT MARKINGS EXTENSION LINES-DOTS</p> <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> | <p>STANDARD PLAN No. G-50C</p> |
|--|---|---|--|



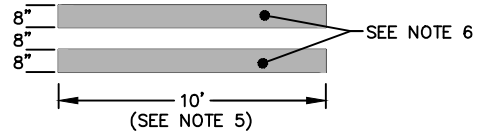
TRANSVERSE CROSSWALK LAYOUT
TYPICAL



LONGITUDINAL CROSSWALK LAYOUT
TYPICAL



TRANSVERSE CROSSWALK AND STOP LINE DIMENSIONS
TYPICAL

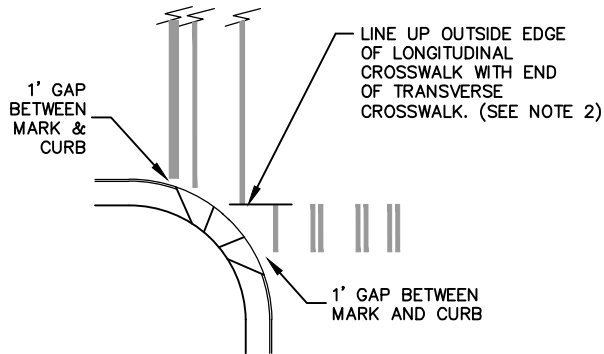


LONGITUDINAL CROSSWALK DIMENSIONS
TYPICAL

X-DISTANCE TABLE

| RADIUS | X DIST. |
|--------|---------|
| 10' | 0' |
| 15' | 1.5' |
| 20' | 3' |
| 25' | 4.5' |
| 30' | 6' |
| 35' | 7.5' |

** X-DISTANCE TABLE PROVIDED AS A DESIGN GUIDE TO ASSIST IN DETERMINING THE X-DISTANCE REQUIRED TO MAINTAIN THE 4' MINIMUM DISTANCE BETWEEN FACE OF CURB AND CROSSWALK LINE.



TRANSVERSE & LONGITUDINAL CROSSWALK COMBINATION

NOTES:

- 1). TRANSVERSE CROSSWALKS AND STOP LINES ARE TO BE INSTALLED AT SIGNAL AND STOP CONTROLLED LOCATIONS. LONGITUDINAL CROSSWALKS ARE TO BE INSTALLED AT OTHER LOCATIONS. EXCEPTIONS CAN BE MADE BY STREET DEPARTMENT DIRECTOR.
- 2). WHEN TRANSVERSE CROSSWALK AND LONGITUDINAL CROSSWALK MEET AT A CORNER, THE TRAFFIC ENGINEER WILL BE CONTACTED TO DETERMINE LOCATION.
- 3). FOR SKEWED LONGITUDINAL CROSSWALKS, POSITION THE LINES PARALLEL TO THE TRAFFIC LANE.
- 4). INSTALL STOP LINES PERPENDICULAR TO CURB LINE UNLESS OTHERWISE NOTED IN PLANS.
- 5). CROSSWALK WIDTH VARIES IN THE CENTRAL BUSINESS DISTRICT, SEE CONTRACT PLANS.
- 6). STOP LINES AND CROSSWALKS SHALL BE PREFORMED THERMOPLASTIC.
- 7). SEE CONTRACT FOR GROOVING REQUIREMENTS.

APPROVED BY
[Signature]
DAN BULLER, P.E.
DIRECTOR OF ENGINEERING SERVICES

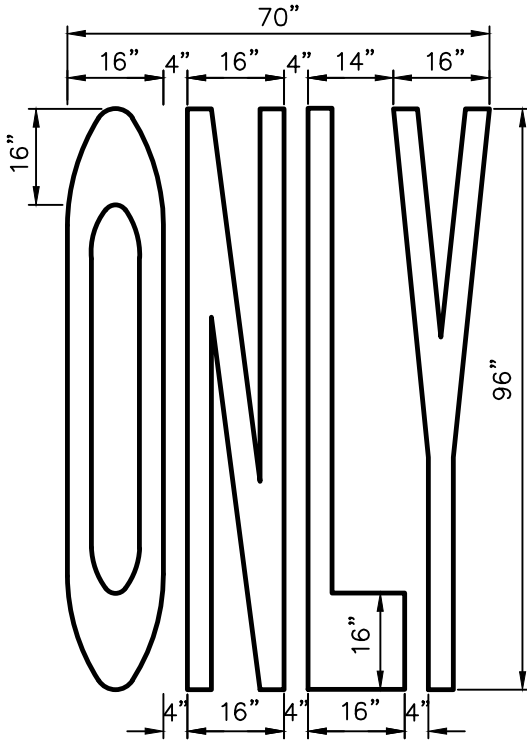
ADOPTED: _____
REVISED: 04/2023
SUPERSEDES: 01/2017
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: BDH



**PAVEMENT MARKINGS
CROSSWALK / STOP LINE LAYOUT**

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

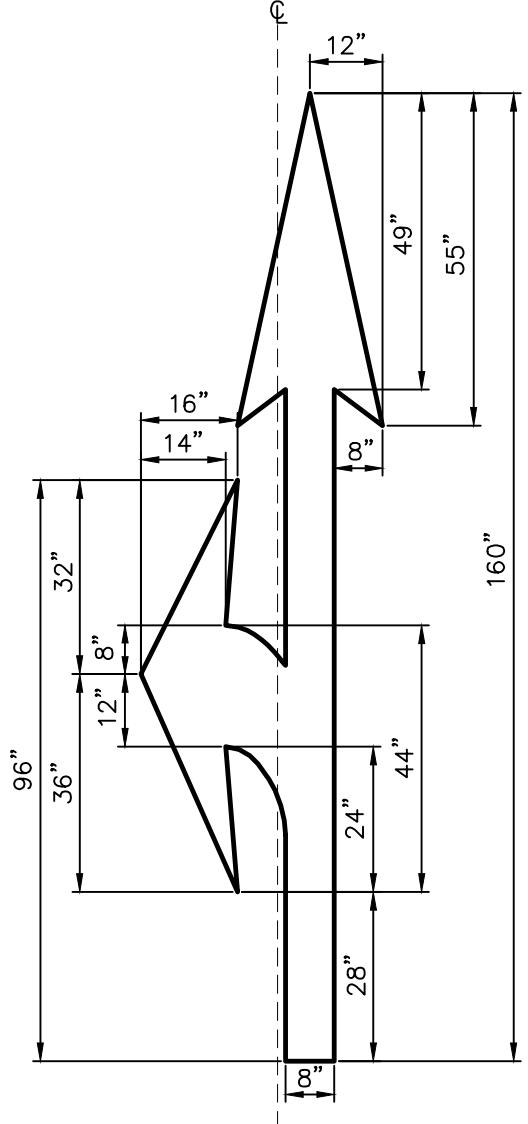
STANDARD
PLAN No.
G-51



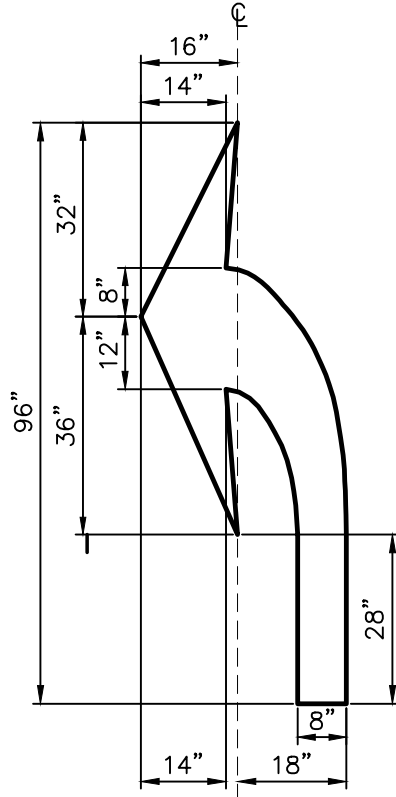
NOTES:

1. INSTALL 1 1/2" OF BLACK NON-RETROREFLECTIVE CONTRAST ON ALL SIDES OF ARROW, LETTER, AND SYMBOL MARKINGS ON PCCP.
2. SYMBOLS AND LETTERS SHALL BE PERFORMED THERMOPLASTIC.

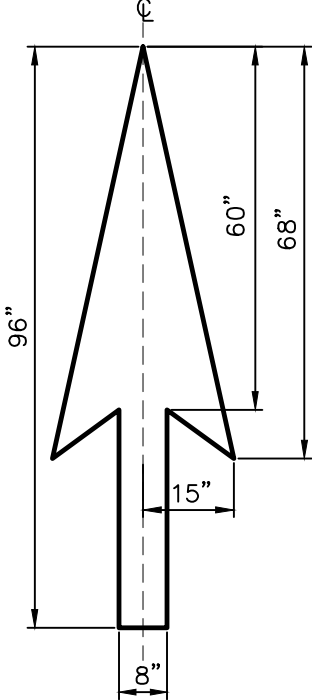
SYMBOL & LANE



SYMBOL & LANE



SYMBOL & LANE



RIGHT OR LEFT APPLICATIONS

RIGHT OR LEFT APPLICATIONS

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 11/2018
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**PAVEMENT MARKINGS – SYMBOLS
 ARROWS AND ONLY SPECIFICATIONS**
 SHEET 1 OF 2

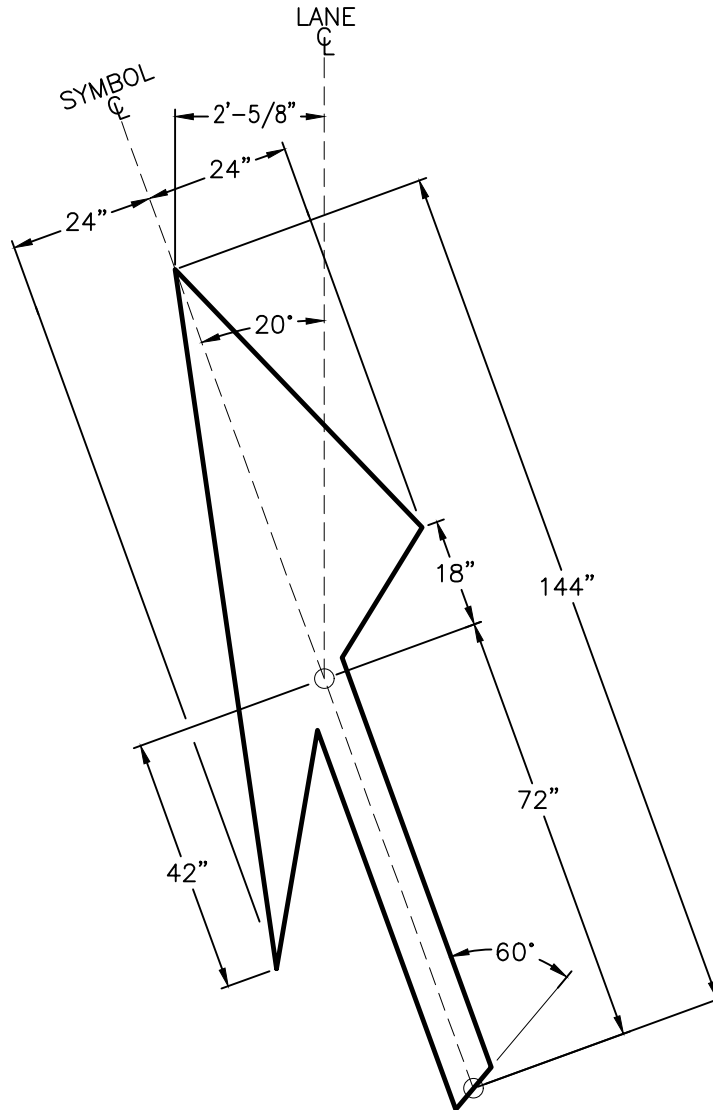


ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-52A

NOTES:

1. INSTALL 1 1/2" OF BLACK NON-RETROREFLECTIVE CONTRAST ON ALL SIDES OF ARROW, LETTER, AND SYMBOL MARKINGS ON PCCP.
2. SYMBOLS AND LETTERS SHALL BE PERFORMED THERMOPLASTIC.



RIGHT OR LEFT APPLICATIONS

APPROVED BY

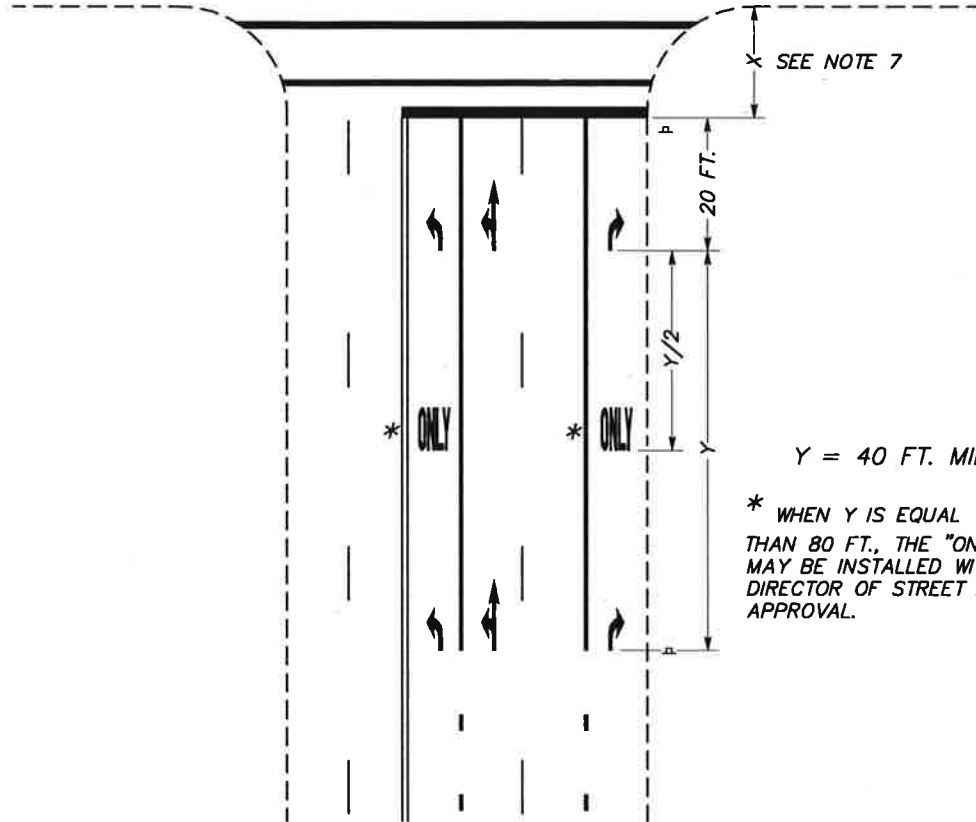
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 11/2018
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**PAVEMENT MARKINGS – SYMBOLS
 ARROWS AND ONLY SPECIFICATIONS**
 SHEET 2 OF 2




 **ENGINEERING SERVICES**
 CITY OF SPOKANE, WASHINGTON

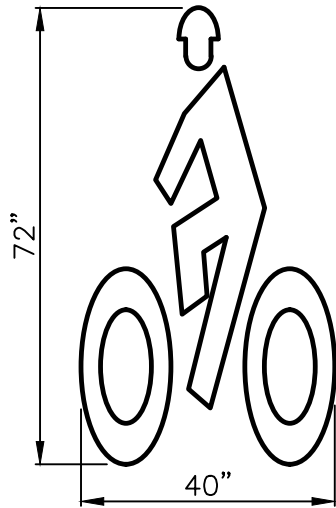
STANDARD
 PLAN No.
G-52A



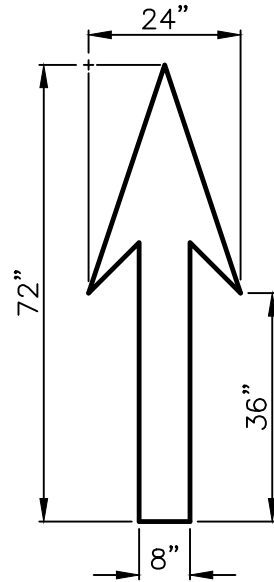
NOTES:

1. GORE STRIPE SHALL BE A WHITE, 8" WIDE LINE.
2. TURN LANE—USE ARROWS SHALL BE USED. THE "ONLY" PAVEMENT MARKING IS OPTIONAL AND SHALL ONLY BE INSTALLED WITH THE APPROVAL OF THE DIRECTOR OF THE STREET DEPARTMENT.
3. TURN LANE—USE ARROWS ARE OPTIONAL WHEN TURNING BAYS, DESIGNED NOT TO ENTRAP THROUGH TRAFFIC HAVE BEEN PROVIDED BY PHYSICAL CONSTRUCTION OR PAVEMENT MARKINGS, AND ONLY DRIVERS USING THOSE TURNING BAYS ARE PERMITTED TO TURN.
4. TURN AND THROUGH LANE—USE ARROWS SHALL BE USED WHEN OPTIONAL TURN/THROUGH LANES ARE ADJACENT TO MANDATORY TURN LANES.
5. THE THROUGH LANE—USE ARROWS USED IN CONJUNCTION WITH THE WORD "ONLY" SHALL BE USED ONLY IN THOSE INSTANCES WHEN A TURN IS PROHIBITED IN A LANE THAT WOULD NORMALLY ALLOW A TURN. THE "ONLY" MARKING MUST BE APPROVED BY THE DIRECTOR OF THE STREET DEPARTMENT.
6. INSTALL APPROPRIATE LANE USE CONTROL SIGNS (R3-5 TO R3-8 SERIES) IN LINE WITH THE BEGINNING OF THE GORE STRIPE AND AT THE INTERSECTION, SEE G-72 SERIES.
7. IN THE ABSENCE OF A MARKED CROSSWALK, THE STOP LINE SHOULD BE PLACED AT THE DESIRED STOPPING POINT, SUCH THAT THE NEAREST EDGE IS NO LESS THAN 4 FEET OR MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. LOCATION TO BE DETERMINED BY TRAFFIC ENGINEER.
8. SEE G-52A FOR TRAFFIC ARROW AND "ONLY" DETAIL.
9. SEE G-51 FOR CROSSWALK AND STOP BAR LAYOUT.

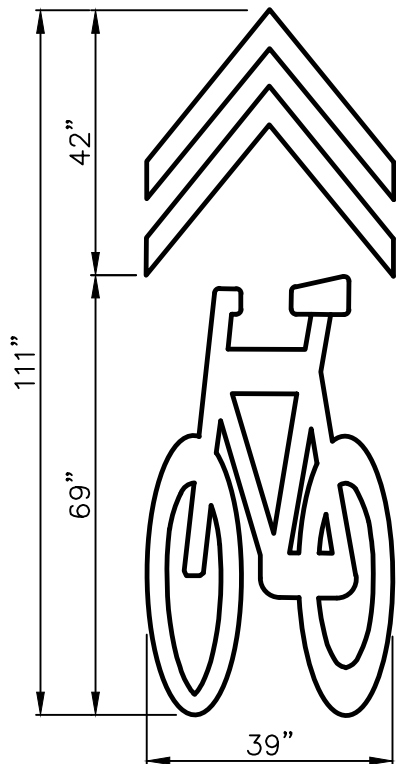
| | | | | | |
|--|---|---|---|--|---|
| <p style="text-align: center;">APPROVED BY</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  ENGINEERING OPERATIONS MANAGER KYLE TWOHIG </div> <div style="text-align: center;">  CITY ENGINEER DANIEL ALBERT BULLER, P.E. </div> </div> | <p>ADOPTED: 01/2012 REVISED: 01/2017 SUPERSEDES: 04/2013 CHECKED BY: GTO SCALE: NTS DWG/REV. BY: JHM/MLD</p> | <p>TURN LANES ARROW / ONLY LAYOUT</p> |  | <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> | <p>STANDARD PLAN No. G-52B</p> |
|--|---|---|---|--|---|



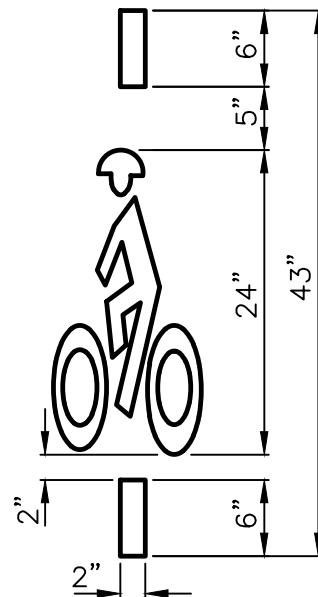
BICYCLE SYMBOL
RETRO-REFLECTIVE



BICYCLE LANE ARROW SYMBOL
RETRO-REFLECTIVE



SHARED LANE SYMBOL



BICYCLE DETECTOR SYMBOL

NOTES:

1. INSTALL 1 1/2" OF BLACK NON-RETROREFLECTIVE CONTRAST ON ALL SIDES OF SYMBOL MARKINGS (EXCEPT BICYCLE DETECTOR) ON PCCP.
2. CHEVRONS ON SHARED LANE SYMBOL MAY POINT TO THE INTENDED BIKE TRAVEL DIRECTION.
3. SYMBOLS AND LETTERS SHALL BE PREFORMED THERMOPLASTIC.

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 01/2012
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

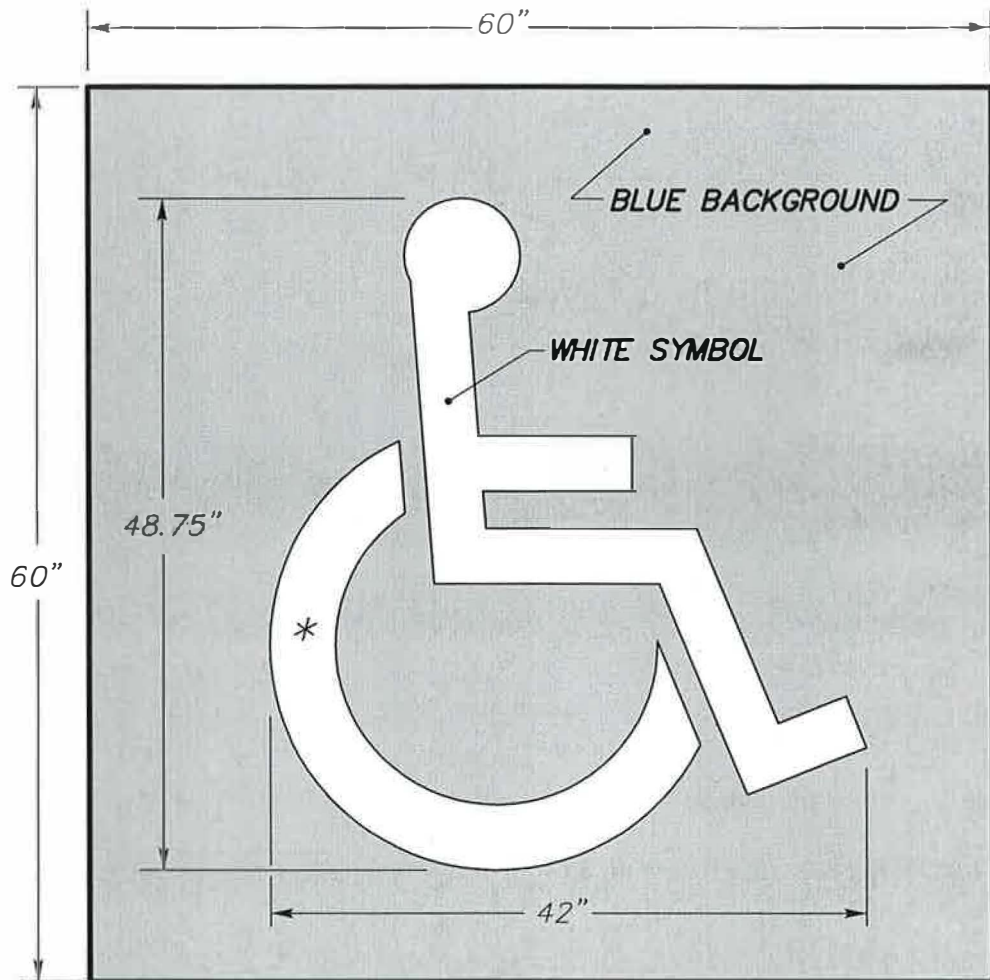
**PAVEMENT MARKINGS – SYMBOLS
 BICYCLES AND ARROW SPECIFICATIONS**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON




STANDARD
 PLAN No.
G-53

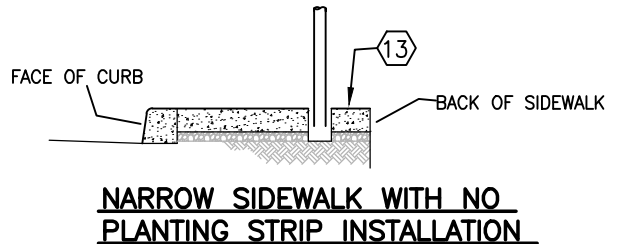
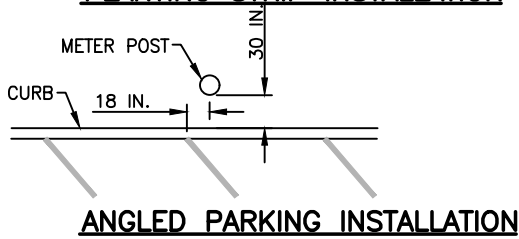
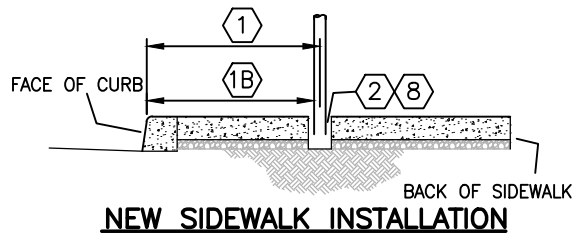
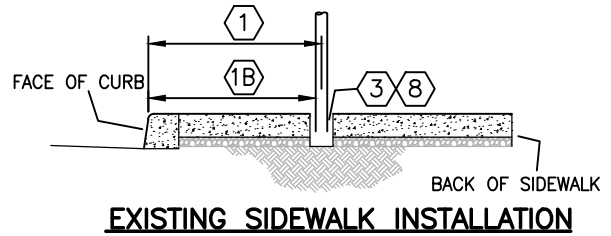
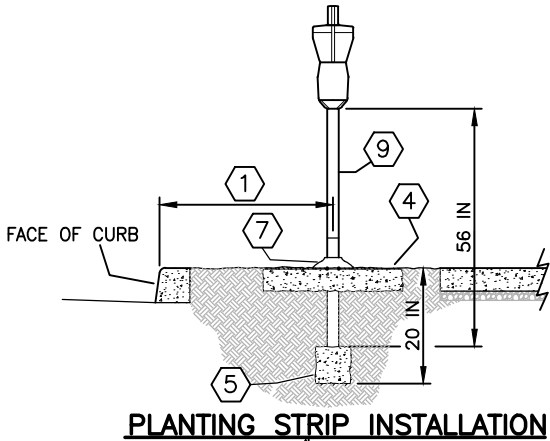
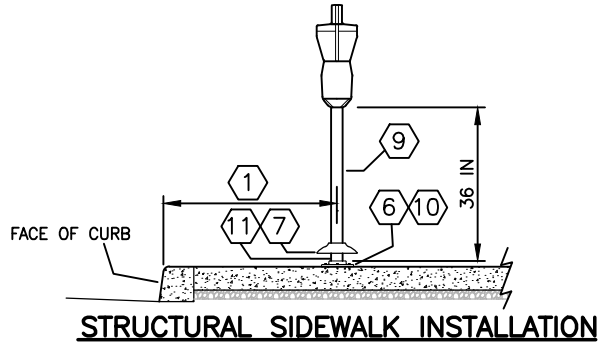
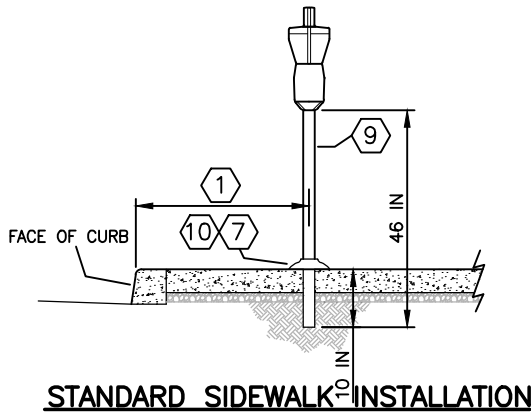
NOTES:

1. 60" X 60" BLUE BACKGROUND. BLUE SHALL BE IN ACCORDANCE WITH MUTCD/FEDERAL SPECIFICATIONS. (COLUMBIA PAINT 17-123-21 INSTANT DRY ACRYLIC TRAFFIC PAINT "HANDICAP BLUE" OR EQUIVALENT.)
2. 42" X 48.75" SYMBOL OF ACCESSABILITY SHALL BE WHITE.



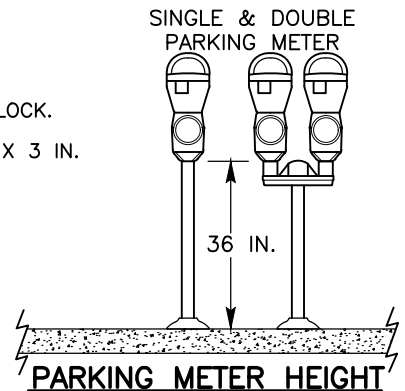
* SEE STATE FABRICATION MANUAL APPENDIX D-12

| | | |
|--|---|--|
| <p>APPROVED BY</p>  <p>DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.</p>  <p>PRINCIPAL ENGINEER, DESIGN GARY NELSON, P.E.</p> | <p>ADOPTED: 01/2012 REVISED: _____ SUPERSEDES: _____ CHECKED BY: GTO SCALE: NTS DWG/REV. BY: PK/MDH</p> | <p>PAVEMENT MARKINGS-SYMBOLS ACCESSIBLE PARKING</p>  <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> <p>STANDARD PLAN No. G-54</p> |
|--|---|--|



INSTALLATION NOTES

- ①—OFFSET DISTANCE FROM FACE OF CURB, OR BACK OF SIDEWALK, TO CENTER OF METER POST SHALL BE DETERMINED ON SITE BY THE PARKING SERVICES FOREMAN.
- ①B—OFFSET DISTANCE FROM FACE OF CURB TO THE FACE OF 4 IN. DIA. HOLE SHALL BE 29 INCHES.
- ②—PARKING SERVICES PERSONNEL SHALL SUPPLY AND INSTALL PVC SLEEVE PRIOR TO CONCRETE POUR. PARKING SERVICES SHALL BE NOTIFIED, 232-8815, 2 WORKING DAYS PRIOR TO CONCRETE POUR.
- ③—CORE DRILL 4 IN. DIAMETER HOLE THROUGH SIDEWALK.
- ④—INSTALL 2 FT. X 2 FT. X 4 IN. CONCRETE PAD. CENTER METER POST IN PAD.
- ⑤—INSTALL 6 IN. X 6 IN. X 6 IN. CONCRETE ANCHOR BLOCK. CENTER METER POST IN BLOCK.
- ⑥—INSTALL THREADED BOLT PLATE. BOLT TO SIDEWALK. BOLT TO SIDEWALK WITH 3/8 IN. X 3 IN. STAINLESS STEEL BOLTS.
- ⑦—INSTALL FLANGE PLATE.
- ⑧—INSTALL NON-SHRINK GROUT IN NON-ANNULAR POST SPACE.
- ⑨—INSTALL GALVANIZED STEEL POLE, SCHEDULE 40, 2 IN. I.D.
- ⑩—INSTALL 3/8 IN. X 3 IN. STAINLESS STEEL BOLTS.
- ⑪—DRILL 1/4 IN. DIA. WEEP HOLE IN PIPE BELOW FLANGE PLATE.
- ⑫—METER HEAD INSTALLATION AND/OR REMOVAL WILL BE DONE BY CITY PARKING SERVICES.
- ⑬—WHEN SIDEWALK IS VERY NARROW WITH NO PLANTING STRIP, METER POST SHALL BE INSTALLED 6 INCHES FROM BACK OF WALK TO FACE OF METER POST.



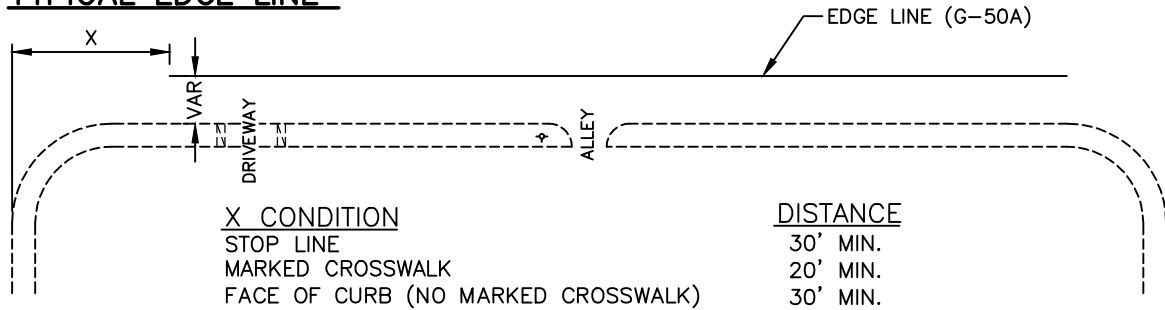
APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 11/2018
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

PARKING METER POST INSTALLATION
 ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON
 STANDARD PLAN No. G-59

TYPICAL EDGE LINE

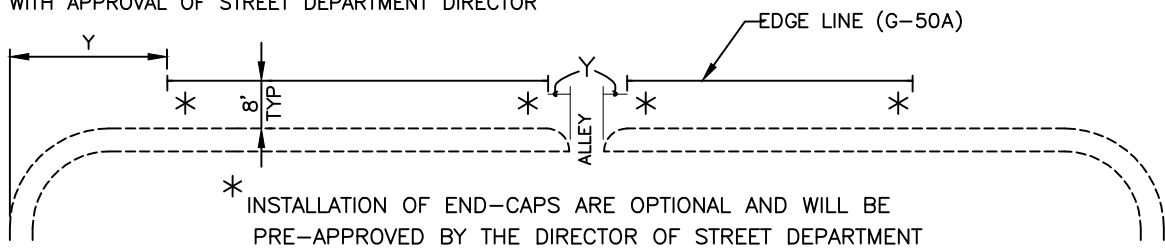


NOTES:

1. EDGE LINE SHALL BE INSTALLED THROUGH DRIVEWAYS AND ALLEYS.
2. THE DISTANCE FROM EDGE LINE TO CURB LINE IS VARIABLE.
3. WHERE PARKING IS RESTRICTED, PROPER SIGNING WILL BE INSTALLED.
4. DISTANCE X IS FROM CONDITION OBJECT (STOP LINE, MARKED CROSSWALK, ETC).

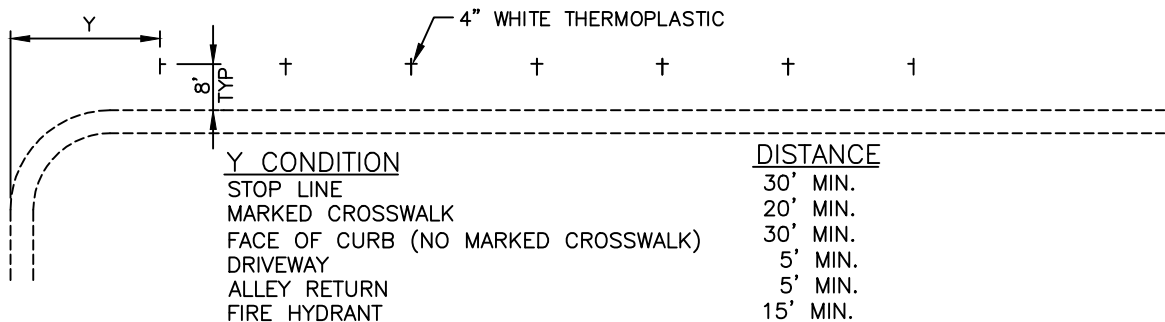
TYPICAL PARKING LANE LINE

BREAK FOR ALLEYS, ONLY BREAK FOR DRIVEWAYS WITH APPROVAL OF STREET DEPARTMENT DIRECTOR



TYPICAL METERED PARKING STALL LINE

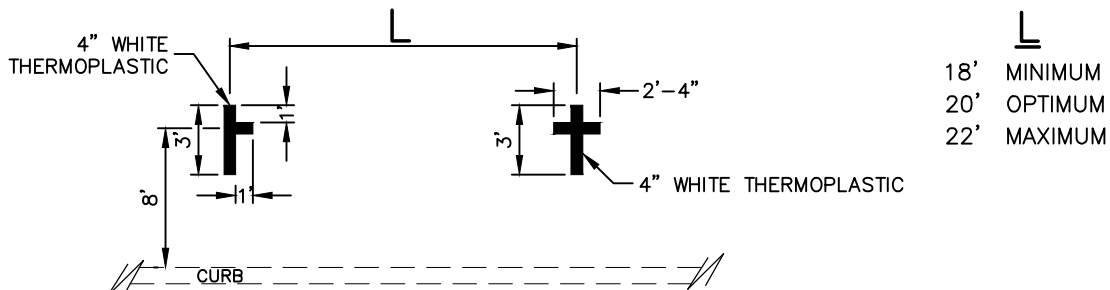
BREAK FOR ALL ALLEYS AND DRIVEWAYS



NOTES:

1. DISTANCE Y IS FROM CONDITION OBJECT (STOP LINE, FIRE HYDRANT, ETC).
2. ADDITIONAL RESTRICTIONS MAY APPLY. SEE SMC 16A.05.

METERED PARKING STALL DIMENSIONS



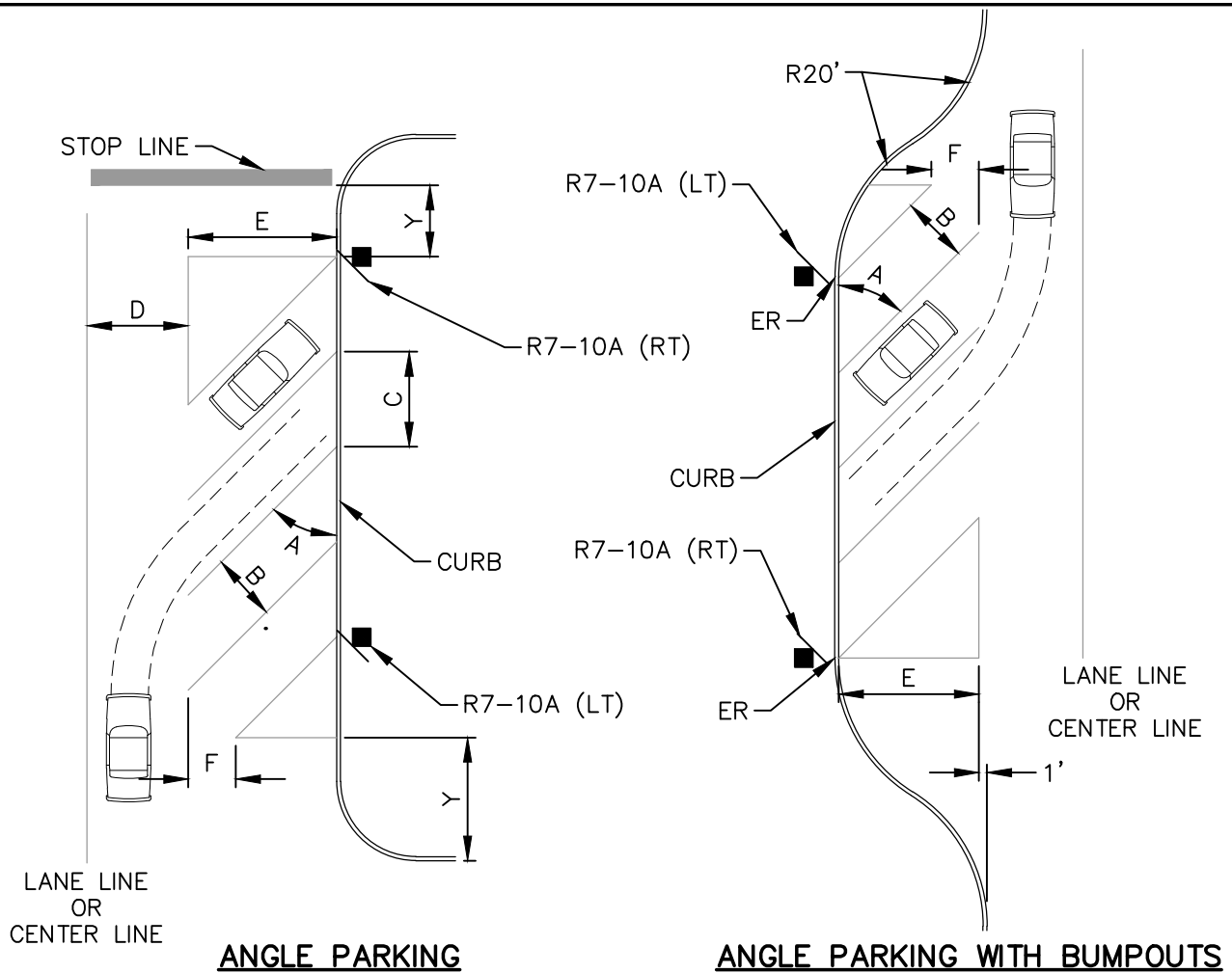
APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 11/2018
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**EDGE LINES
 PARKING STALL LINES**

 ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON
 STANDARD PLAN No. **G-60**



ANGLE PARKING

ANGLE PARKING WITH BUMPOUTS

CONDITION

- STOP LINE
- MARKED CROSSWALK
- FACE OF CURB (NO MARKED CROSSWALK)
- DRIVEWAY
- ALLEY RETURN
- FIRE HYDRANT

- Y**
- 30' MIN
 - 20' MIN
 - 30' MIN
 - 5' MIN
 - 5' MIN
 - 15' MIN

NOTES

1. 4" WHITE THERMOPLASTIC TYPICAL FOR PARKING LINES.
2. SEE SMC 17C.230.140 FOR MORE INFORMATION.
3. ADDITIONAL RESTRICTIONS MAY APPLY, SEE SMC 16A.05.

| DOWNTOWN | | | | | | |
|------------|------------|---------------------|------------------------------|------------------------------|---------------------|----------------------|
| ANGLE A | WIDTH B | CURB LENGTH C | 1-WAY AISLE WIDTH D | 2-WAY AISLE WIDTH D | STALL DEPTH E | STALL OFFSET F |
| 0° | 8' | 20' | 12' | 20' | 8' | - |
| 30° | 8'6" | 17' | 12' | 20' | 15' | 7'6" |
| 45° | 8'6" | 12' | 12' | 20' | 17' | 6' |
| 60° | 8'6" | 9'9" | 16' | 20' | 17'6" | 4'3" |
| 90° | 8'6" | 8'6" | 25' | 25' | 18' | 0 |

| INDUSTRIAL ZONES | | | | | | |
|------------------|------------|---------------------|------------------------------|------------------------------|---------------------|----------------------|
| ANGLE A | WIDTH B | CURB LENGTH C | 1-WAY AISLE WIDTH D | 2-WAY AISLE WIDTH D | STALL DEPTH E | STALL OFFSET F |
| 0° | 8' | 20' | 12' | 20' | 8' | - |
| 30° | 8'6" | 17' | 12' | 22' | 15' | 7'6" |
| 45° | 8'6" | 12' | 12' | 22' | 17' | 6' |
| 60° | 8'6" | 9'9" | 16' | 22' | 18' | 4'3" |
| 90° | 8'6" | 8'6" | 25' | 25' | 18' | 0 |

APPROVED BY

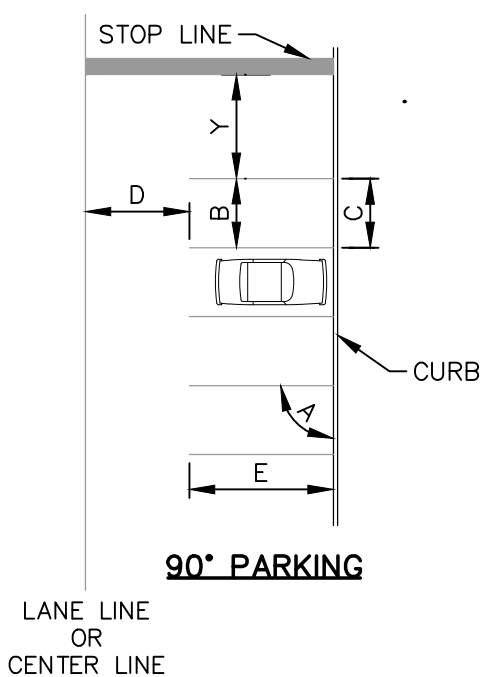
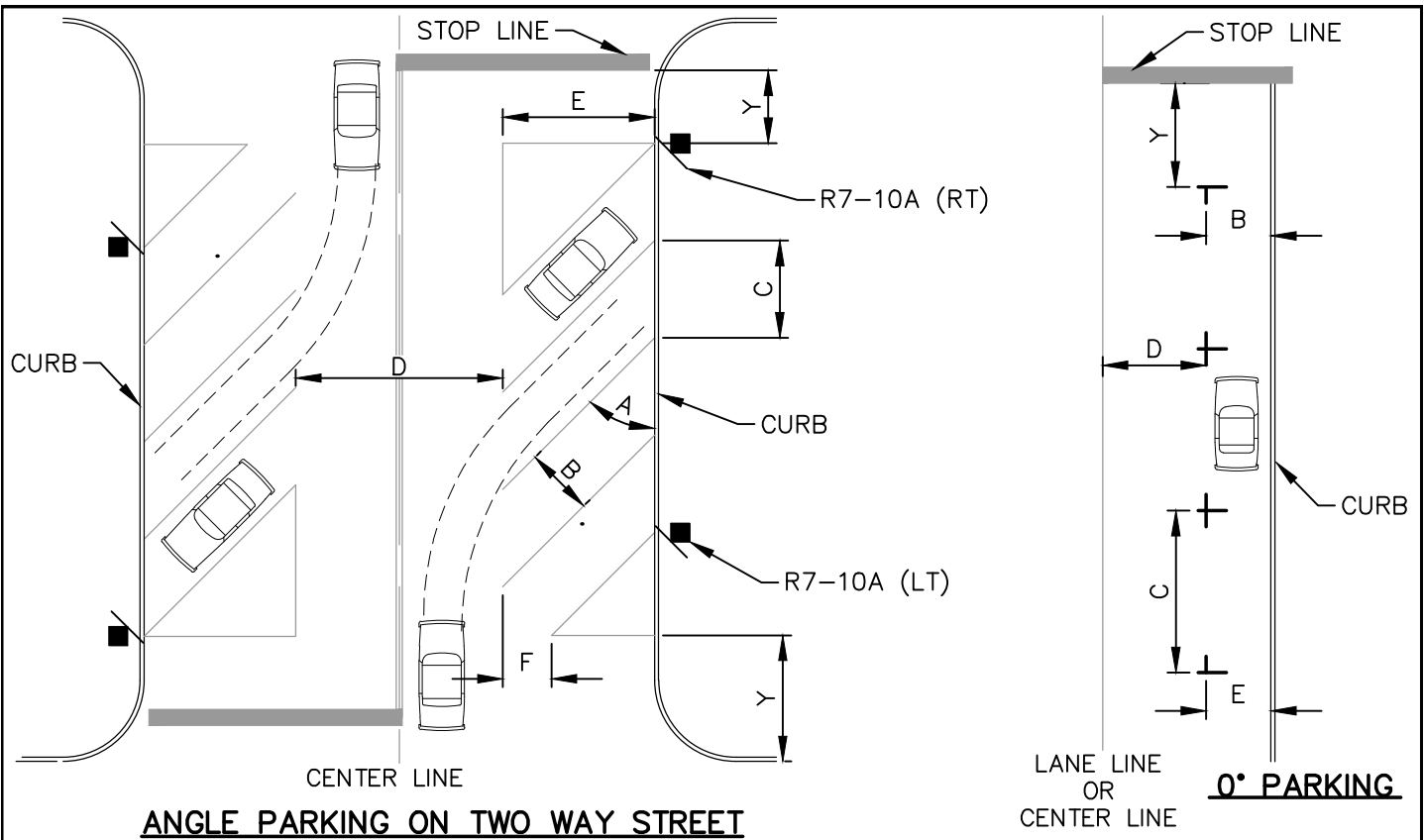
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 09/2019
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV.BY: BDH

ANGLED PARKING
SHEET 1 OF 2

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-60A



| DOWNTOWN | | | | | | |
|------------|------------|---------------------|------------------------------|------------------------------|---------------------|----------------------|
| ANGLE A | WIDTH B | CURB LENGTH C | 1-WAY AISLE WIDTH D | 2-WAY AISLE WIDTH D | STALL DEPTH E | STALL OFFSET F |
| 0° | 8' | 20' | 12' | 20' | 8' | - |
| 30° | 8'6" | 17' | 12' | 20' | 15' | 7'6" |
| 45° | 8'6" | 12' | 12' | 20' | 17' | 6' |
| 60° | 8'6" | 9'9" | 16' | 20' | 17'6" | 4'3" |
| 90° | 8'6" | 8'6" | 25' | 25' | 18' | 0 |

| INDUSTRIAL ZONES | | | | | | |
|------------------|------------|---------------------|------------------------------|------------------------------|---------------------|----------------------|
| ANGLE A | WIDTH B | CURB LENGTH C | 1-WAY AISLE WIDTH D | 2-WAY AISLE WIDTH D | STALL DEPTH E | STALL OFFSET F |
| 0° | 8' | 20' | 12' | 20' | 8' | - |
| 30° | 8'6" | 17' | 12' | 22' | 15' | 7'6" |
| 45° | 8'6" | 12' | 12' | 22' | 17' | 6' |
| 60° | 8'6" | 9'9" | 16' | 22' | 18' | 4'3" |
| 90° | 8'6" | 8'6" | 25' | 25' | 18' | 0 |

| | |
|------------------------------------|----------|
| CONDITION | Y |
| STOP LINE | 30' MIN |
| MARKED CROSSWALK | 20' MIN |
| FACE OF CURB (NO MARKED CROSSWALK) | 30' MIN |
| DRIVEWAY | 5' MIN |
| ALLEY RETURN | 5' MIN |
| FIRE HYDRANT | 15' MIN |

- NOTES**
- 4" WHITE THERMOPLASTIC TYPICAL FOR PARKING LINES.
 - SEE SMC 17C.230.140 FOR MORE INFORMATION.
 - ADDITIONAL RESTRICTIONS MAY APPLY, SEE SMC 16A.05.

APPROVED BY

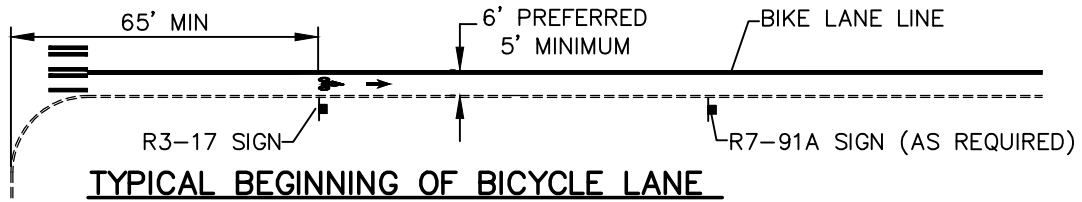
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 08/2019
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV.BY: BDH

ANGLED & 0° PARKING
SHEET 2 OF 2

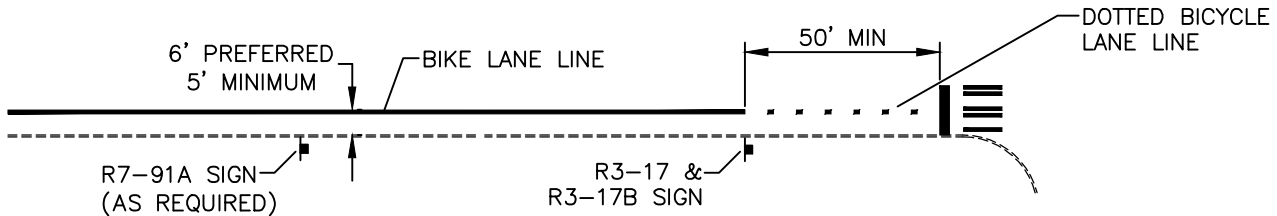
ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-60A

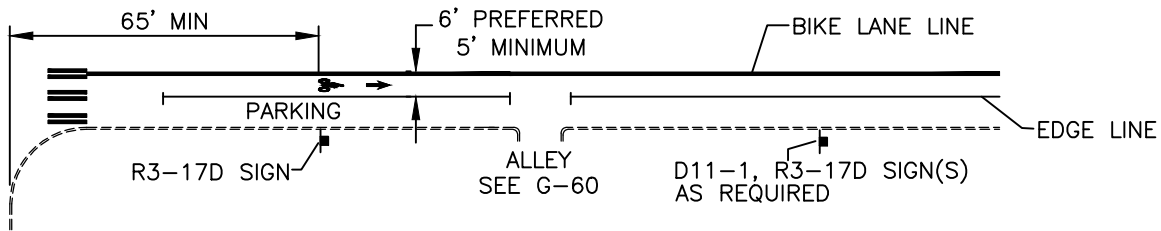


TYPICAL BEGINNING OF BICYCLE LANE

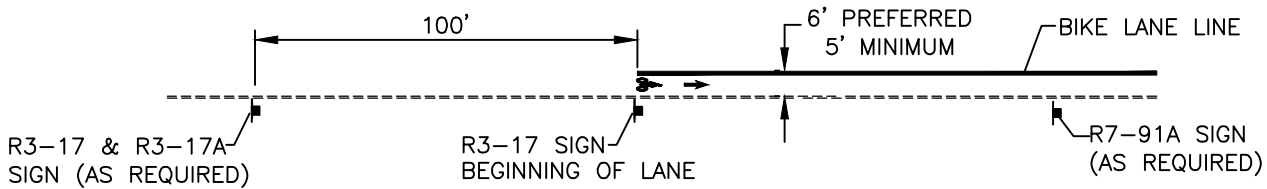
BIKE LANE SYMBOL AND BIKE LANE SIGN AT BIKE LANE ORIGINAL CROSSINGS OF ARTERIALS, AND CROSSING MARKED BIKE ROUTES.



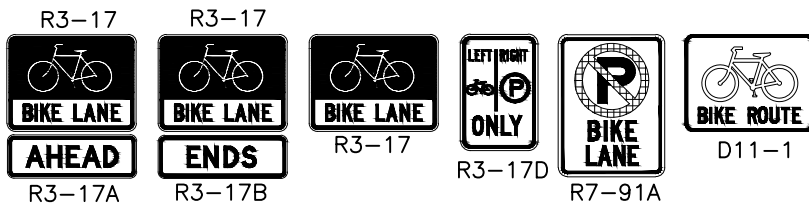
TYPICAL ENDING OF BICYCLE LANE AT INTERSECTION



TYPICAL BEGINNING OF BICYCLE LANE WITH STRIPED PARKING AT INTERSECTION



TYPICAL BEGINNING OF BICYCLE LANE AWAY FROM INTERSECTION



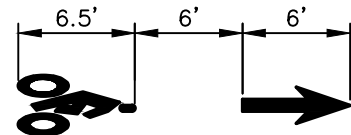
TYPICAL BICYCLE FACILITY SIGNS

R3-17D AND R7-91A SIGNS SPACED APPROXIMATELY 300 FT. OR MID BLOCK



TYPICAL PLACEMENT

CENTER SHARED LANE SYMBOL BETWEEN WHEEL PATH IN TRAVEL LANES THAT ARE 14' WIDE OR NARROWER. SPACED PER M.U.T.C.D.



TYPICAL PLACEMENT

CENTER IN BICYCLE LANE

REFERENCE: MUTCD 2009 – PART 9, BICYCLE FACILITIES.

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

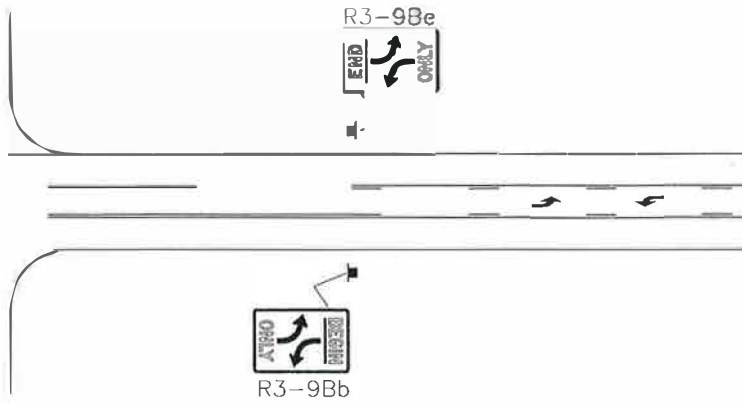
ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 11/2018
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH



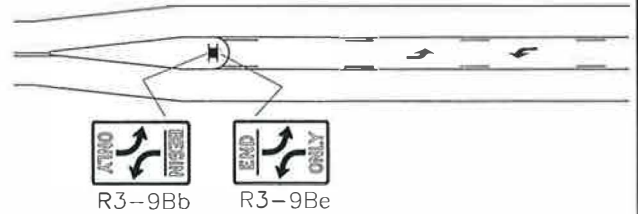
BICYCLE MARKINGS & SIGNS

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

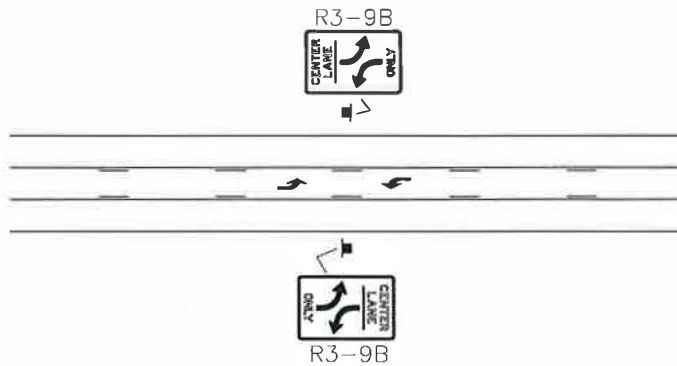
STANDARD
 PLAN No.
G-61



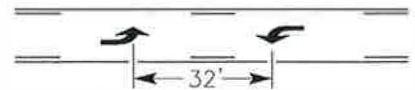
BEGINNING/ENDING INSTALLATION
NO RAISED MEDIAN



BEGINNING/ENDING INSTALLATION
RAISED MEDIAN





INTERMEDIATE INSTALLATION
TYPICAL



PAVEMENT MARKINGS
TYPICAL

NOTES:

1. TWO-WAY LEFT TURN ARROW PAVEMENT MARKING SET SHALL CONSIST OF TWO LEFT TURN ARROWS, (SEE G-52A), 32 FEET APART, MEASURED FROM ARROW POINT TO ARROW POINT. SETS WILL BE CENTERED IN THE LANE.
2. FOR EXTENDED TWO-WAY LEFT TURN LANES, APPLICABLE BEGINNING AND END SIGNS, INTERMEDIATE TWO-WAY LEFT TURN SIGNS, AND TWO-WAY LEFT TURN ARROW PAVEMENT MARKING SETS WILL BE INSTALLED. INTERMEDIATE TWO-WAY LEFT TURN SIGNS AND TWO-WAY LEFT TURN ARROW PAVEMENT MARKING SETS WILL BE INSTALLED MIDBLOCK, APPROXIMATELY 600 FT APART.
3. WHEN THE TOTAL LENGTH OF A TWO-WAY LEFT TURN LANE IS LESS THAN 500 FEET A TWO-WAY LEFT TURN ARROW PAVEMENT MARKING SET SHALL BE INSTALLED WITHOUT THE INTERMEDIATE R3-9b SIGNS. THE SET WILL BE INSTALLED APPROXIMATELY IN THE MIDDLE OF THE TWO-WAY LEFT TURN ZONE.

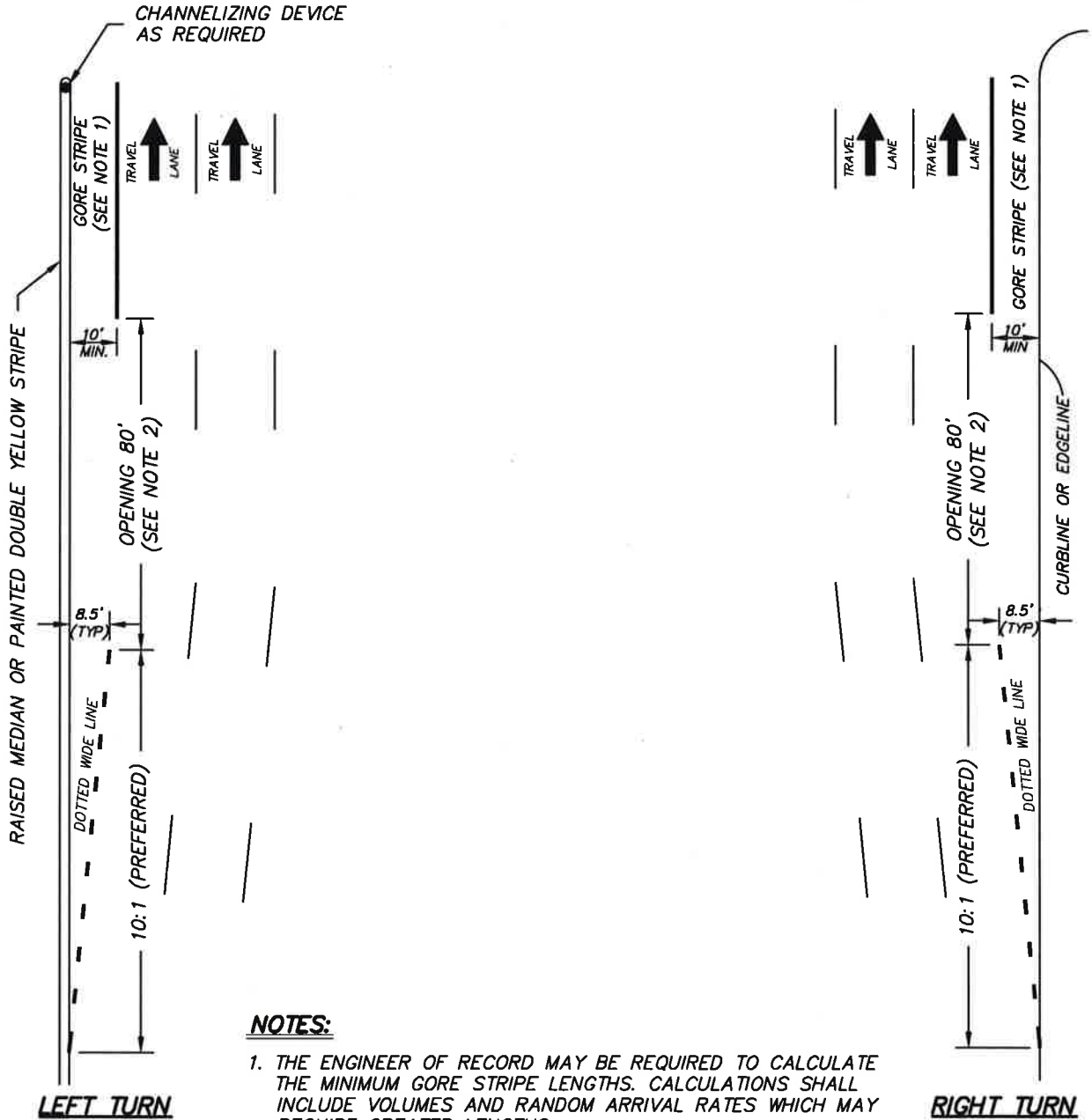
APPROVED BY

 DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.

 PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.

ADOPTED: 01/2012
 REVISED:
 SUPERSEDES:
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: JHM

**TURN LANES
TWO WAY LEFT TURN**

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. G-70



NOTES:

1. THE ENGINEER OF RECORD MAY BE REQUIRED TO CALCULATE THE MINIMUM GORE STRIPE LENGTHS. CALCULATIONS SHALL INCLUDE VOLUMES AND RANDOM ARRIVAL RATES WHICH MAY REQUIRE GREATER LENGTHS.
2. WHEN MINIMUMS CANNOT BE MET, I.E TYPICAL GORE STRIPE OR OPENING LENGTHS, THEY MAY BE REDUCED WITH THE APPROVAL OF THE TRAFFIC ENGINEER.

APPROVED BY

ENGINEERING OPERATIONS MANAGER KYLE TWOHIG
 CITY ENGINEER DANIEL ALBERT BULLER, P.E.

ADOPTED: 01/2012
 REVISED: 01/2017
 SUPERSEDES: 03/2014
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: MLD

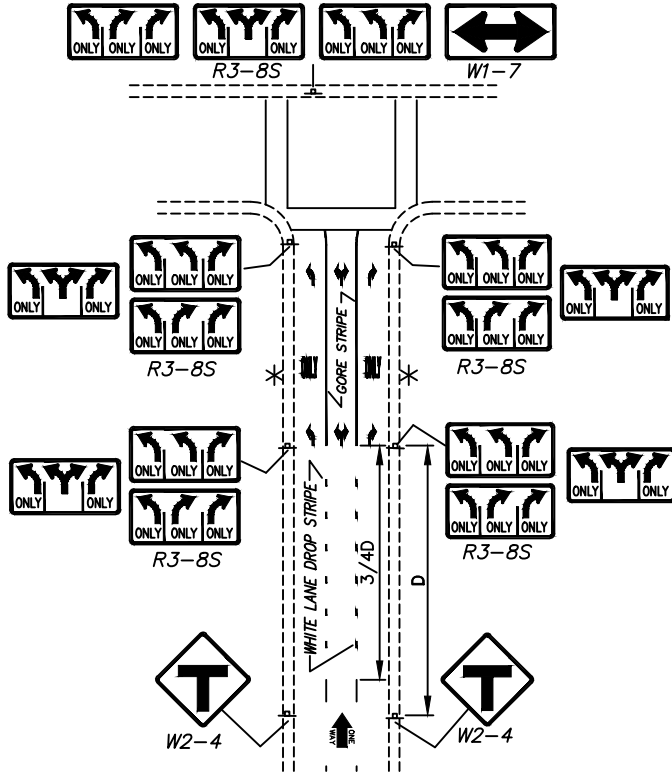
**TURN LANES
 ADDED LANE**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
 G-71

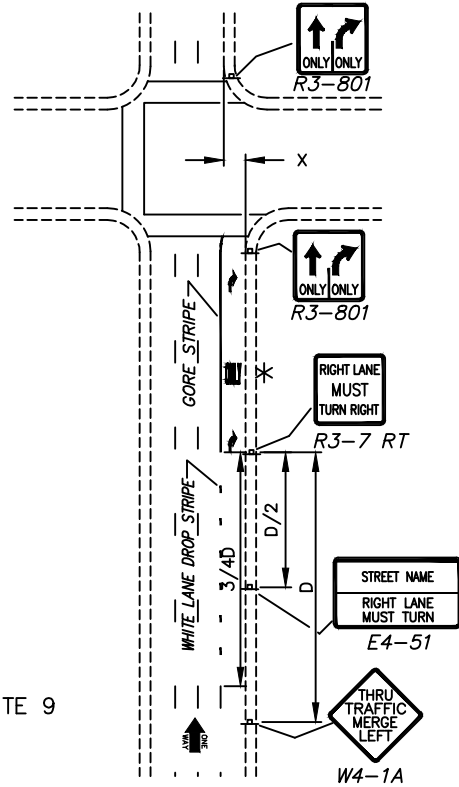
"T" INTERSECTION

SEE NOTE 6



FOUR WAY INTERSECTION

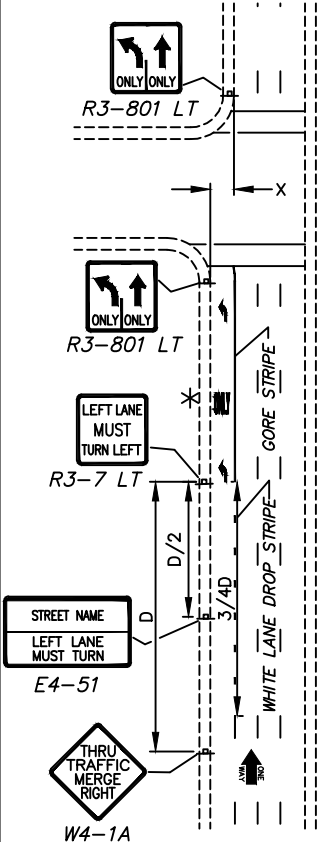
SEE NOTE 4



*SEE NOTE 9

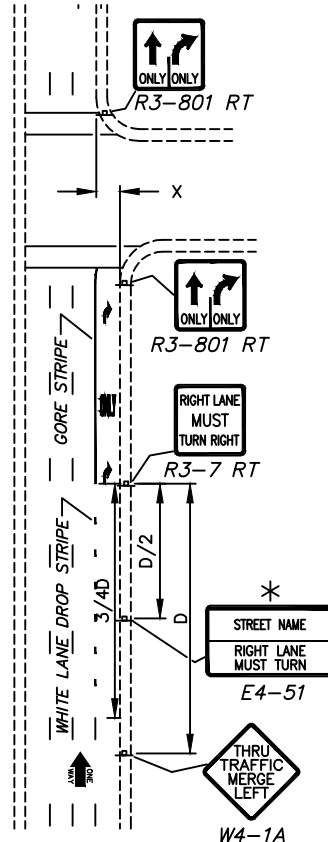
THREE WAY INTERSECTION

SEE NOTE 4



THREE WAY INTERSECTION

SEE NOTE 4



NOTES:

- D = MUTCD MINIMUM ADVANCE WARNING SIGN PLACEMENT DISTANCE, AS PER TABLE 2C-4, CONDITION A.

| POSTED SPEED LIMIT | DISTANCE (FEET) |
|--------------------|-----------------|
| 20 | 225 |
| 25 | 325 |
| 30 | 450 |
| 35 | 550 |
| 40 | 650 |
| 45 | 750 |

- DISTANCE SHOULD NOT BE LESS UNLESS DETERMINED BY AN ENGINEERING STUDY
 - DISTANCE MAY BE INCREASED DEPENDING ON SPECIFIC SITE GEOMETRICS.
- GORE STRIPE SHALL BE A MINIMUM OF 100 FT. LONG. A REDUCTION REQUIRES A DESIGN VARIANCE.
 - DROP LANE STRIPE SHALL BE 3/4D MEASURED FROM THE GORE STRIPE.
 - INSTALL R3-8/3-800 SERIES SIGNS IF:
 - THERE IS A TRAFFIC SIGNAL, OR
 - $X \geq 10'$
 DO NOT INSTALL IF $X < 1'$ IF $10' > X > 1'$, BASED ON ENGINEERING STUDY
 - LANES OTHER THAN THE MANDATORY TURN LANES MAY ALSO BE USED AS TURN LANES WITH APPROPRIATE SIGNS & PAVEMENT MARKINGS.
 - INSTALL APPROPRIATE R3-8S SIGN ON TRAFFIC POLE. IF THERE IS NO TRAFFIC SIGNAL, AND APPROACH LEG IS NOT CONTROLLED BY A STOP OR YIELD SIGN, THEN INSTALL W1-7 SIGN AT THE INTERSECTION AND A W2-4 ADVANCE WARNING SIGN.
 - SEE G-52A FOR ARROW AND "ONLY" SPECIFICATIONS.
 - SEE G-52B FOR ARROW AND "ONLY" LAYOUT.
 - INSTALLATION OF THE WORD "ONLY" & E4-51 SIGN ARE OPTIONAL AND WILL BE PRE-APPROVED BY THE DIRECTOR OF THE STREET DEPARTMENT.

APPROVED BY

[Signature]
DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 01/2012
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

TURN LANES – TRAPPING ONE WAY STREET

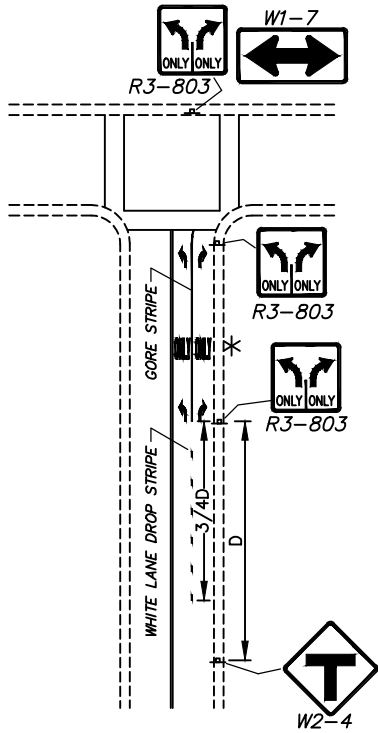


ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. G-72A

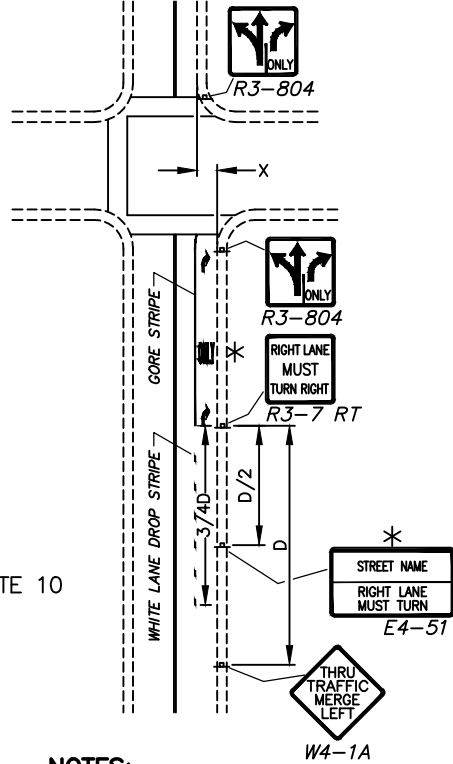
"T" INTERSECTION

SEE NOTE 7



FOUR WAY INTERSECTION

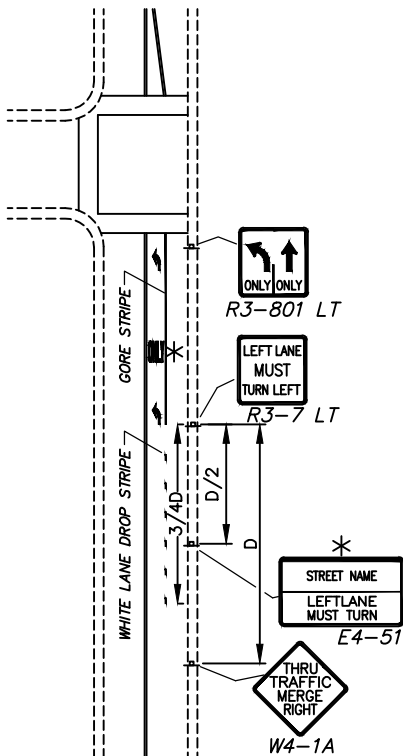
SEE NOTE 4



*SEE NOTE 10

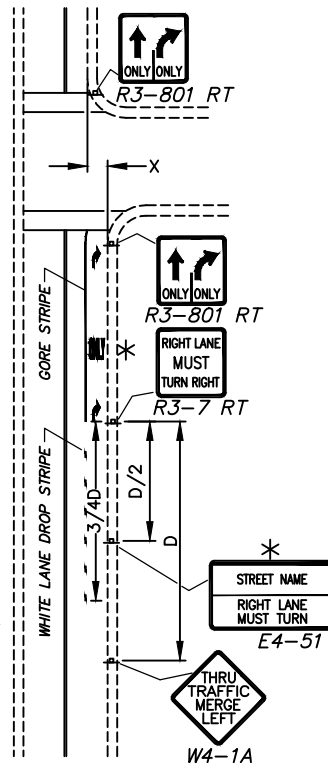
THREE WAY INTERSECTION

SEE NOTE 4



THREE WAY INTERSECTION

SEE NOTE 4



NOTES:

1. D = MUTCD MINIMUM ADVANCE WARNING SIGN PLACEMENT DISTANCE, AS PER TABLE 2C-4, CONDITION A.

| POSTED SPEED LIMIT | DISTANCE (FEET) |
|--------------------|-----------------|
| 20 | 225 |
| 25 | 325 |
| 30 | 450 |
| 35 | 550 |
| 40 | 650 |
| 45 | 750 |

A. DISTANCE SHOULD NOT BE LESS UNLESS DETERMINED BY AN ENGINEERING STUDY
 B. DISTANCE MAY BE INCREASED DEPENDING ON SPECIFIC SITE GEOMETRICS.

- GORE STRIPE SHALL BE A MINIMUM OF 100 FT. LONG. A REDUCTION REQUIRES A DESIGN VARIANCE.
- WHITE LANE STRIPE SHALL BE 3/4D MEASURED FROM THE GORE STRIPE.
- INSTALL R3-8/3-800 SERIES SIGNS IF:
 - THERE IS A TRAFFIC SIGNAL, OR
 - $X \geq 10'$
 DO NOT INSTALL IF $X < 1'$ IF $10' > X > 1'$, BASED ON ENGINEERING STUDY.
- LANES OTHER THAN THE MANDATORY TURN LANES MAY ALSO BE USED AS TURN LANES WITH APPROPRIATE SIGNS & PAVEMENT MARKINGS.
- THE TYPICAL IN THIS SITUATION IS TO INSTALL A LEFT TURN POCKET, HOWEVER IN INSTANCES WHERE A TURN POCKET IS NOT SUITABLE, THIS DRAWING SHOULD BE USED.
- INSTALL APPROPRIATE R3-803 SIGN ON TRAFFIC SIGNAL POLE. IF THERE IS NO TRAFFIC SIGNAL, AND APPROACH LEG IS NOT CONTROLLED BY A STOP OR YIELD SIGN, THEN INSTALL W1-7 SIGN AT THE INTERSECTION AND A W2-4 ADVANCE WARNING SIGN.
- SEE G-52A FOR ARROW AND "ONLY" SPECIFICATIONS.
- SEE G-52B FOR ARROW AND "ONLY" LAYOUT.
- INSTALLATION OF THE WORD "ONLY" & E4-51 SIGN ARE OPTIONAL AND WILL BE PRE-APPROVED BY THE DIRECTOR OF THE STREET DEPARTMENT.

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

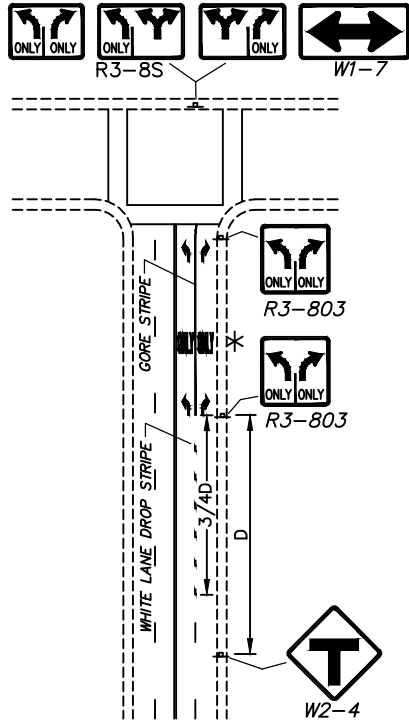
ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 01/2012
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**TURN LANES – TRAPPING
 ONE LANE, TWO WAY STREET**

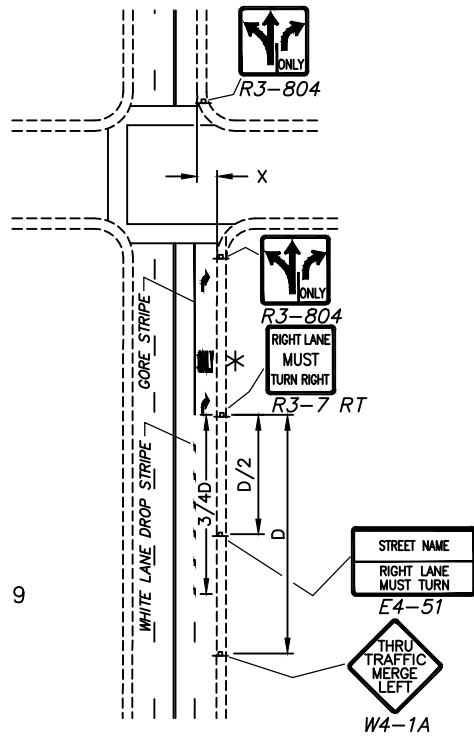
ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-72B

T⁺ INTERSECTION
SEE NOTE 6

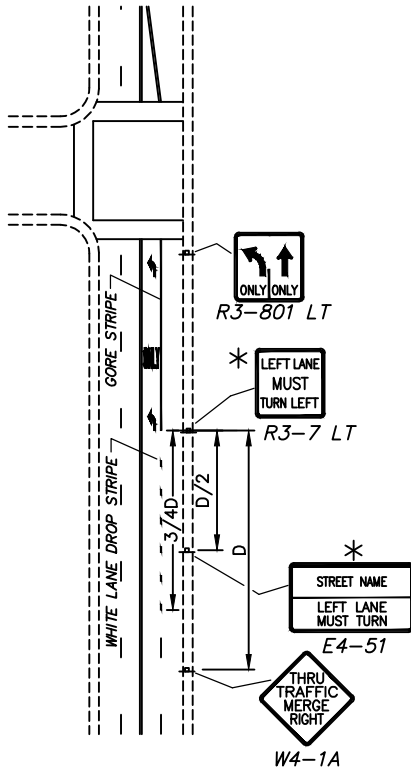


FOUR WAY INTERSECTION
SEE NOTE 4

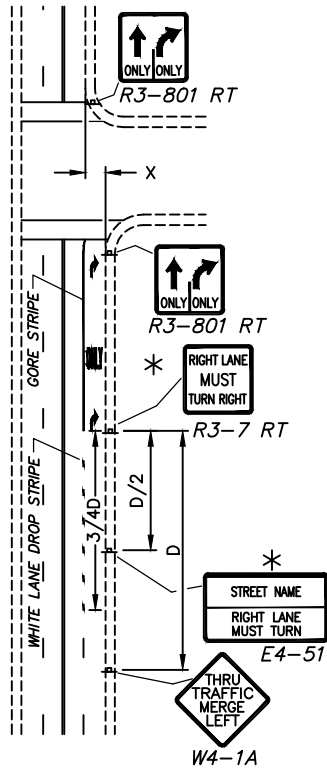


*SEE NOTE 9

THREE WAY INTERSECTION
SEE NOTE 4



THREE WAY INTERSECTION
SEE NOTE 4



NOTES:

1. D = MUTCD MINIMUM ADVANCE WARNING SIGN PLACEMENT DISTANCE, AS PER TABLE 2C-4, CONDITION A.

| POSTED SPEED LIMIT | DISTANCE (FEET) |
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| 20 | 225 |
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A. DISTANCE SHOULD NOT BE LESS UNLESS DETERMINED BY AN ENGINEERING STUDY
B. DISTANCE MAY BE INCREASED DEPENDING ON SPECIFIC SITE GEOMETRICS.

- GORE STRIPE SHALL BE A MINIMUM OF 100 FT. LONG. A REDUCTION REQUIRES A DESIGN VARIANCE.
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- INSTALL R3-8/3-800 SERIES SIGNS IF:
 - THERE IS A TRAFFIC SIGNAL, OR
 - $X \geq 10'$
 DO NOT INSTALL IF $X \leq 1'$ IF $10' > X > 1'$, BASED ON ENGINEERING STUDY.
- LANES OTHER THAN THE MANDATORY TURN LANES MAY ALSO BE USED AS TURN LANES WITH APPROPRIATE SIGNS AND PAVEMENT MARKINGS.
- INSTALL APPROPRIATE R3-8S SIGN ON TRAFFIC SIGNAL POLE. IF THERE IS NO TRAFFIC SIGNAL, AND APPROACH LEG IS NOT CONTROLLED BY A STOP OR YIELD SIGN, THEN INSTALL W1-7 SIGN AT THE INTERSECTION AND A W2-4 ADVANCE WARNING SIGN.
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- INSTALLATION OF THE WORD "ONLY" & E4-51 SIGN ARE OPTIONAL AND WILL BE PRE-APPROVED BY THE DIRECTOR OF THE STREET DEPARTMENT.

APPROVED BY

DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
REVISED: 04/2023
SUPERSEDES: 01/2012
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: BDH

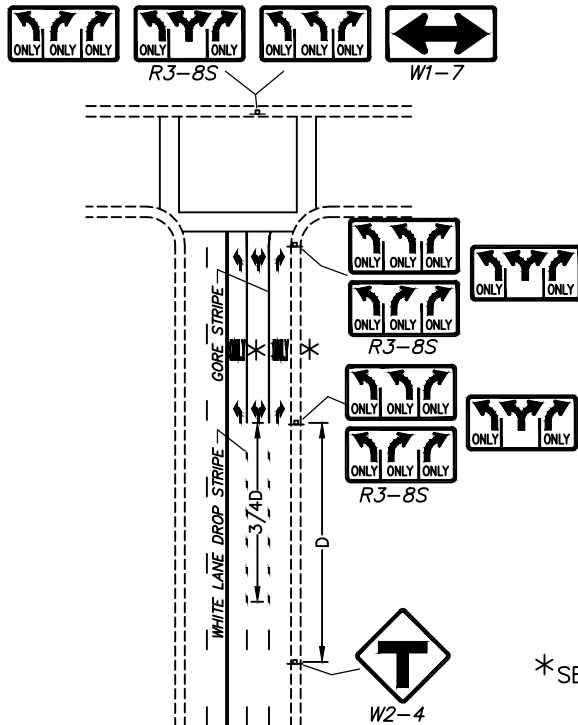
**TURN LANES – TRAPPING
TWO LANE, TWO WAY STREET**

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. **G-72C**

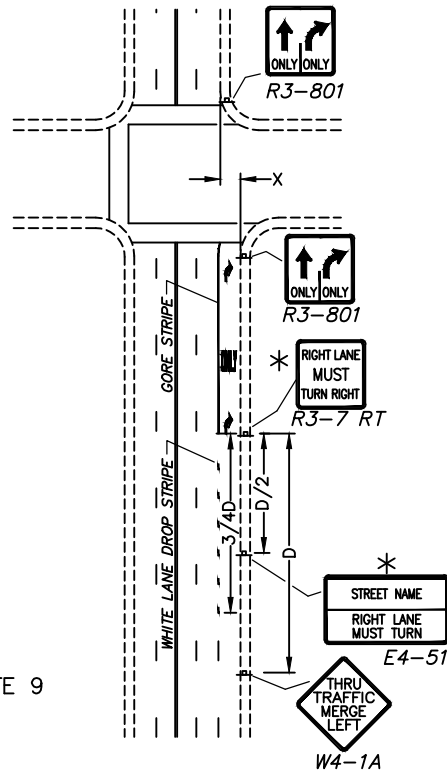
T INTERSECTION

SEE NOTE 6



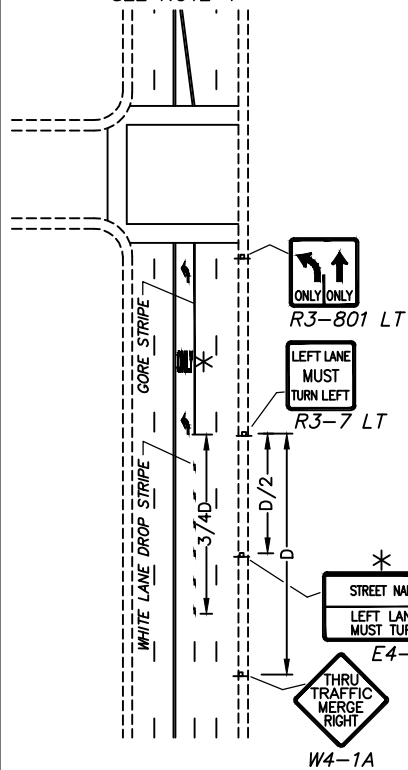
FOUR WAY INTERSECTION

SEE NOTE 4



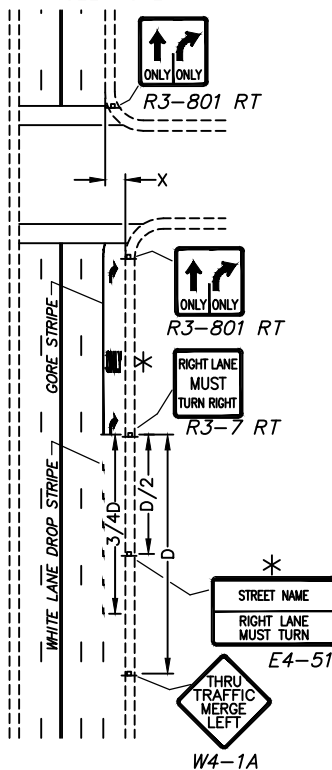
THREE WAY INTERSECTION

SEE NOTE 4



THREE WAY INTERSECTION

SEE NOTE 4



NOTES:

1. D= MUTCD MINIMUM ADVANCE WARNING SIGN PLACEMENT DISTANCE, AS PER TABLE 2C-4, CONDITION A.

| POSTED SPEED LIMIT | DISTANCE (FEET) |
|--------------------|-----------------|
| 20 | 225 |
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A. DISTANCE SHOULD NOT BE LESS UNLESS DETERMINED BY AN ENGINEERING STUDY
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- LANES OTHER THAN THE MANDATORY TURN LANES MAY ALSO BE USED AS TURN LANES WITH APPROPRIATE SIGNS AND PAVEMENT MARKINGS.
- INSTALL APPROPRIATE R3-8S SIGN ON TRAFFIC SIGNAL POLE. IF THERE IS NO TRAFFIC SIGNAL, AND APPROACH LEG IS NOT CONTROLLED BY A STOP OR YIELD SIGN, THEN INSTALL W1-7 SIGN AT THE INTERSECTION AND A W2-4 ADVANCE WARNING SIGN.
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- INSTALLATION OF THE WORD "ONLY" & E4-51 SIGN ARE OPTIONAL AND WILL BE PRE-APPROVED BY THE DIRECTOR OF THE STREET DEPARTMENT.

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

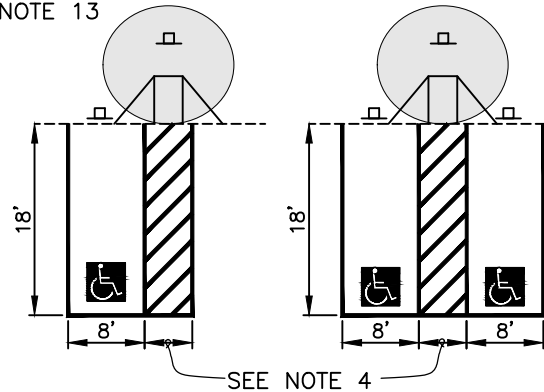
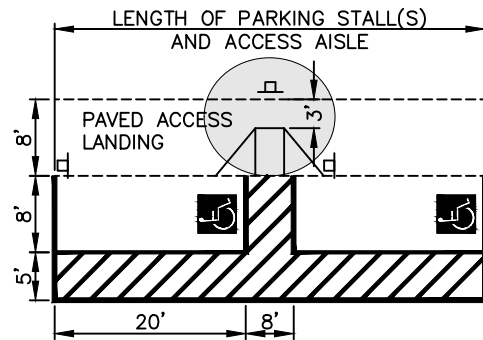
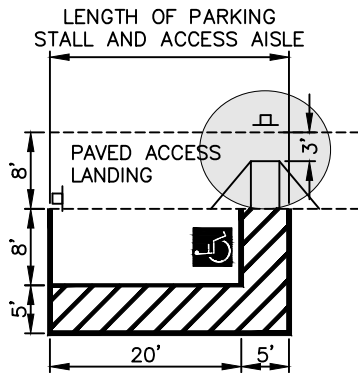
ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 01/2012
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**TURN LANES – TRAPPING
 THREE LANE, TWO WAY STREET**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-72D

SHADED AREAS SEE NOTE 13



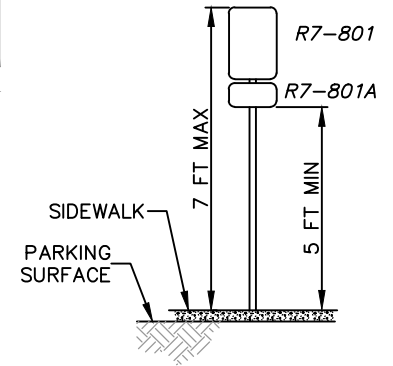
R7-101



R7-801



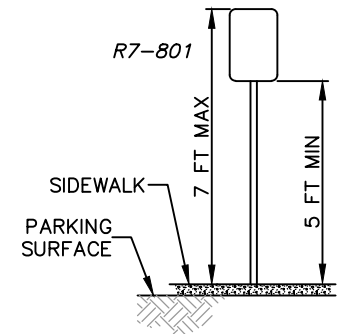
R7-801A



R7-801



R7-801



NOTES:

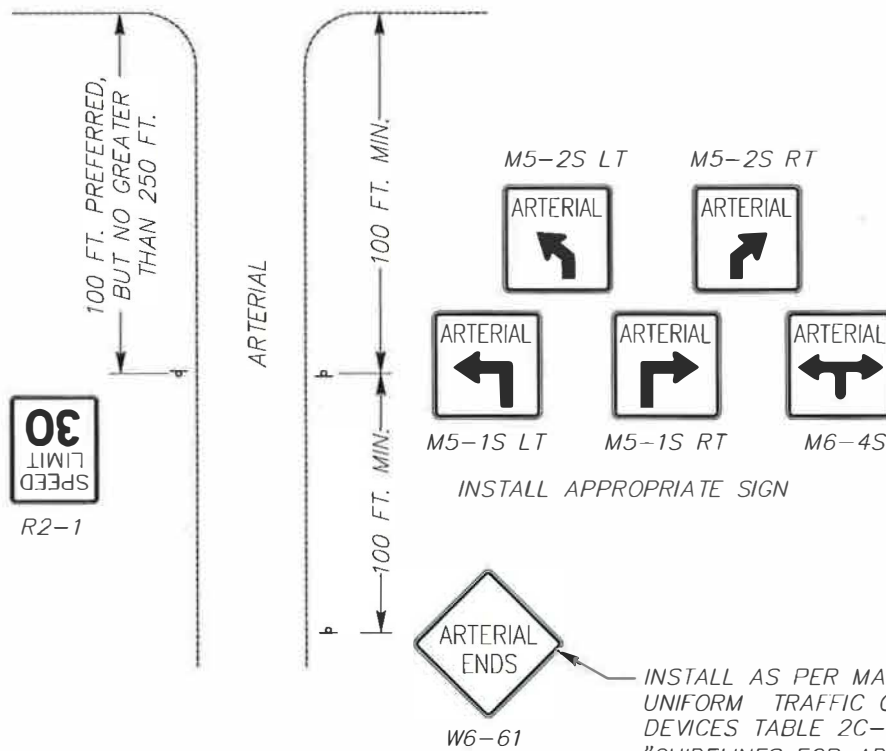
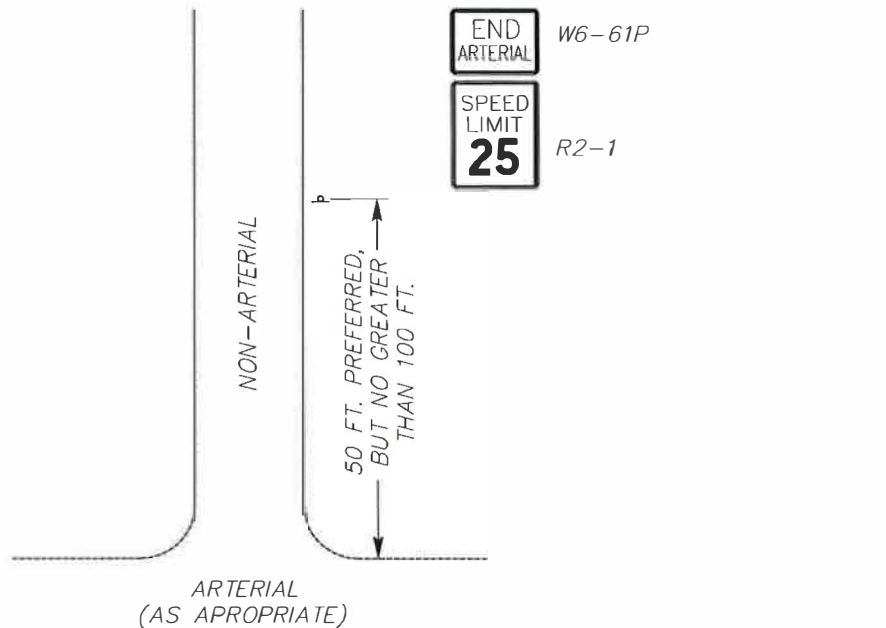
1. ALL STRIPING FOR ACCESSIBLE PARKING SHALL BE BLUE 6 INCHES IN WIDTH.
2. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LOCATED ON A SURFACE WITH A SLOPE NOT TO EXCEED 1:48. PARKING SPACES AND ACCESS AISLES SHALL BE FIRM, STABLE, SMOOTH, AND SLIP-RESISTANT.
3. CROSSHATCH STRIPING FOR ACCESS AISLE SHALL BE ON 24 INCH CENTERS, AND AT 45 DEGREES TO THE LONG AXIS AS ILLUSTRATED.
4. VAN ACCESSIBLE ACCESS AISLES SHALL BE A MINIMUM OF 8 FEET, ALL OTHER ACCESS AISLES SHALL BE A MINIMUM OF 5 FEET. THE FIRST REQUIRED ACCESSIBLE STALL SHALL BE VAN ACCESSIBLE WITH AISLE ON THE RIGHT.
5. EACH STALL SHALL BE IDENTIFIED WITH AN APPROPRIATELY SIZED WHITE SYMBOL OF ACCESSIBILITY WITHIN A 60 IN. BY 60 IN. BLUE BOX BACKGROUND. THIS SYMBOL SHALL BE CENTERED WITHIN, AND NO MORE THAN ONE FOOT FROM THE ENTRANCE OF THE STALL, AS ILLUSTRATED. (SEE G-54).
6. ALL STRIPING DIMENSIONS PROVIDED ARE MINIMUM AND SHALL BE MEASURED ON CENTER(S).
7. EVERY PARKING STALL SHALL BE IDENTIFIED BY A SIGN AS ILLUSTRATED.
8. THE SIGN SHALL BE CLEARLY VISIBLE AT ALL TIMES, FIXED TO A POST OR PERMANENT STRUCTURE, AND LOCATED AS CLOSE TO EACH STALL AS POSSIBLE, BUT SHALL NOT BLOCK ANY DISABLED ACCESS ROUTE OR VEHICLE OVERHANG, AND IN NO CASE SHALL BE GREATER THAN 8 FEET FROM THE RESPECTIVE STALL.
9. THE SIGN SHALL BE AT THE HEAD OF THE STALL SO AS TO IDENTIFY EACH STALL. THE LOCATION OF THE SIGN SHALL BE APPROVED BY ENGINEERING SERVICES PRIOR TO INSTALLATION. (SEE G-80B.)
10. THE SIGN SHALL FACE PERPENDICULAR TO THE LONG AXIS OF THE STALL UNLESS OTHERWISE APPROVED UPON PLAN SUBMITTAL.
11. THE SIGN HEIGHT REQUIREMENTS ARE AS ILLUSTRATED.
12. ANGLE PARKING SHALL MEET THE INTENT OF THESE STANDARDS.
13. AN R7-101 SIGN SHALL BE INSTALLED SOMEWHERE IN THE SHADED AREA, THAT IS IN VIEW OF THE DRIVER AND DOES NOT OBSTRUCT THE PEDESTRIAN PATH.
14. REMOVE EXISTING STRIPING, BY HYDROBLASTING, PRIOR TO INSTALLING NEW STRIPING. COVERING EXISTING STRIPING WITH PAINT OR ASPHALT FOG SEAL IS NOT ALLOWED

APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 05/2022
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

| | |
|---|--------------------------------------|
| PARKING STALLS ACCESSIBLE, OFF STREET | |
| ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON | STANDARD PLAN No. G-80A |



APPROVED BY

[Signature]

DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.

[Signature]

PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.

ADOPTED: 01/2012

REVISED: _____

SUPERSEDES: _____

CHECKED BY: GTO

SCALE: NTS

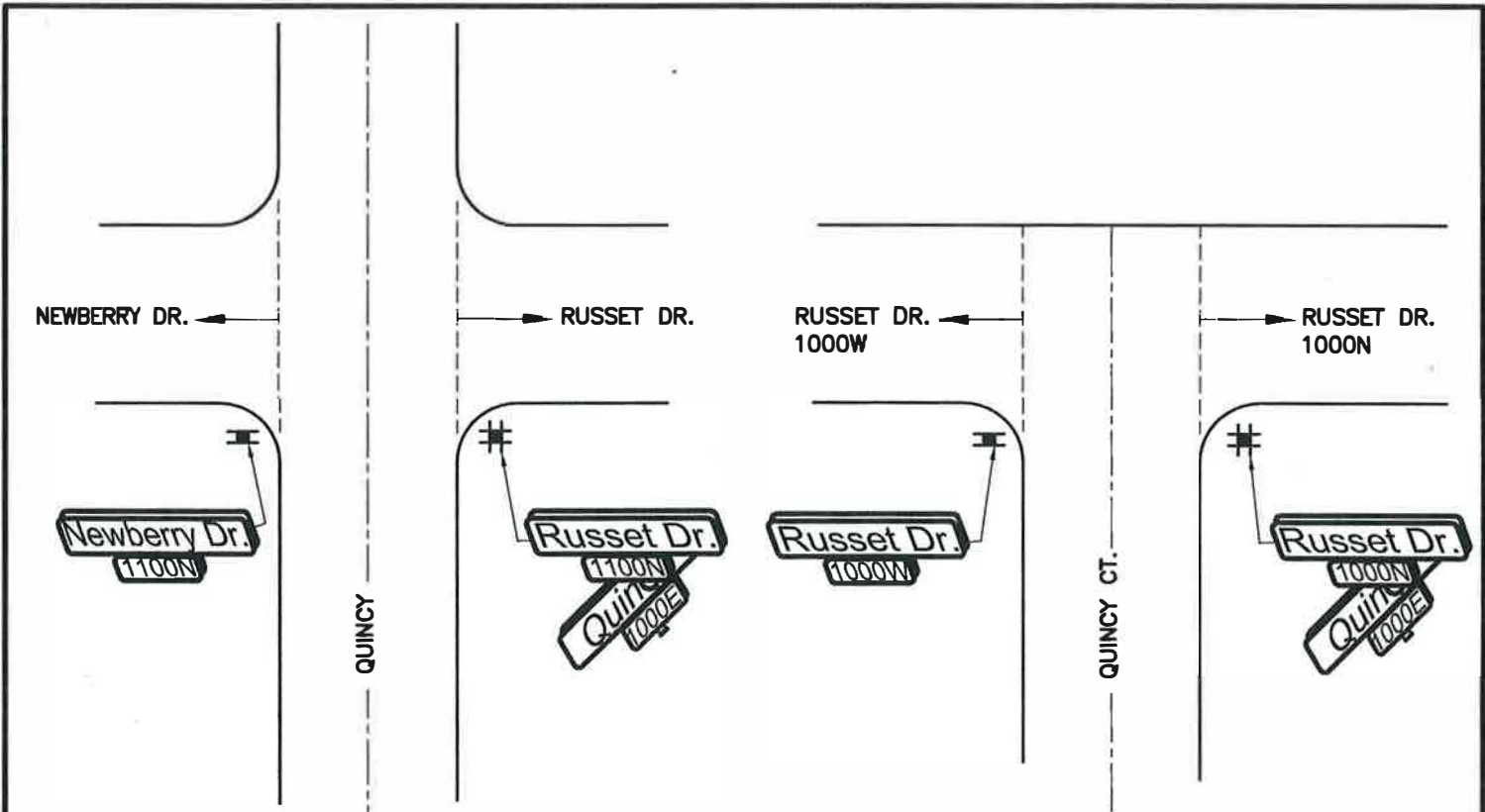
DWG/REV. BY: SRM/MDH

SIGNING REQUIREMENTS
END OF ARTERIAL

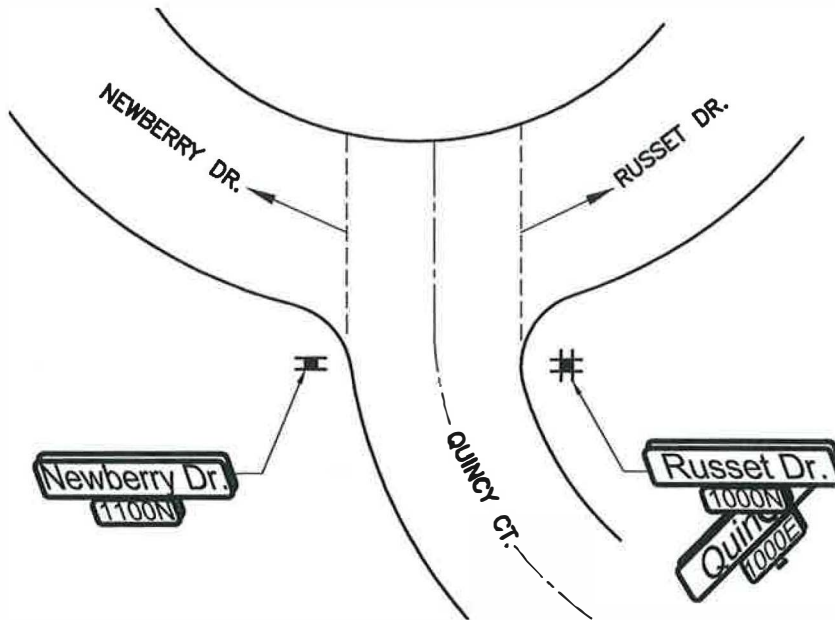
ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN No.
G-90






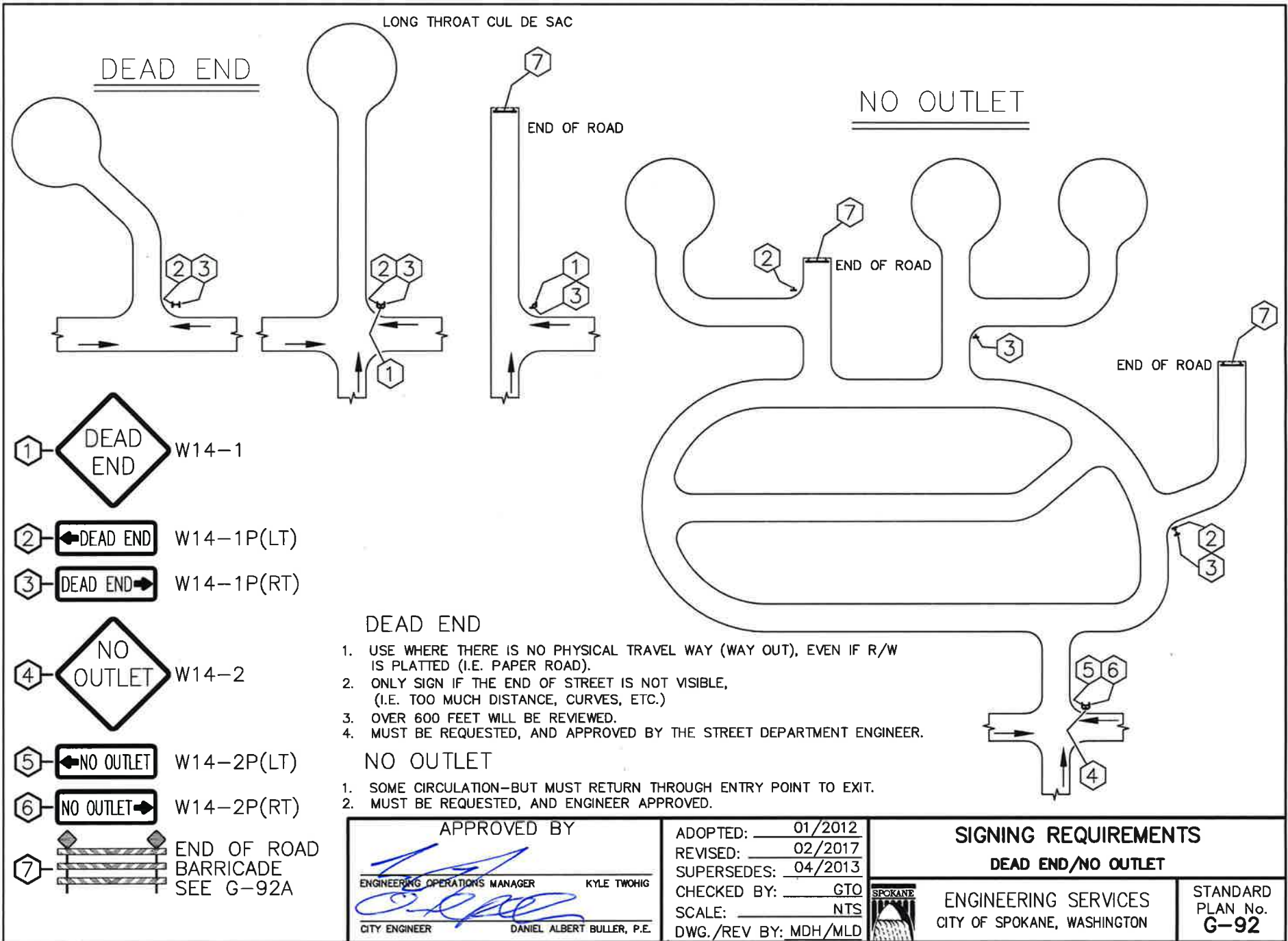


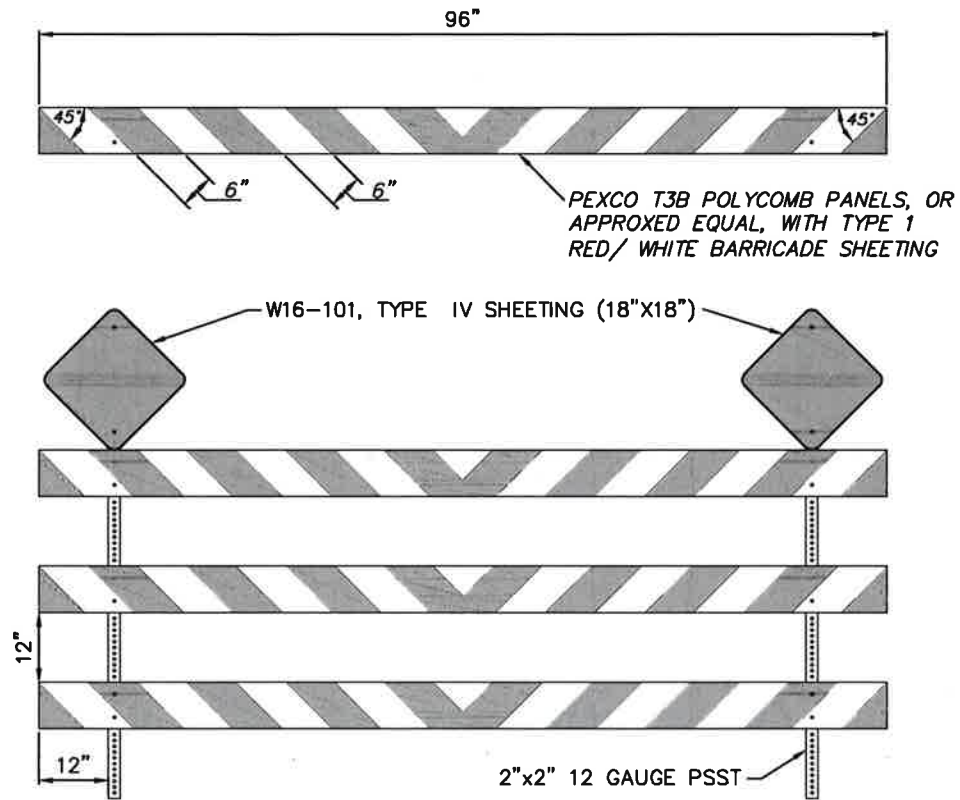
STREET NAME TREATMENT FOR STREET NAME OR CARDINAL DIRECTION CHANGES AT AN INTERSECTION.



ABOVE STREET NAME TREATMENT APPLIES TO ALTERNATE SHAPED CURBLINES.

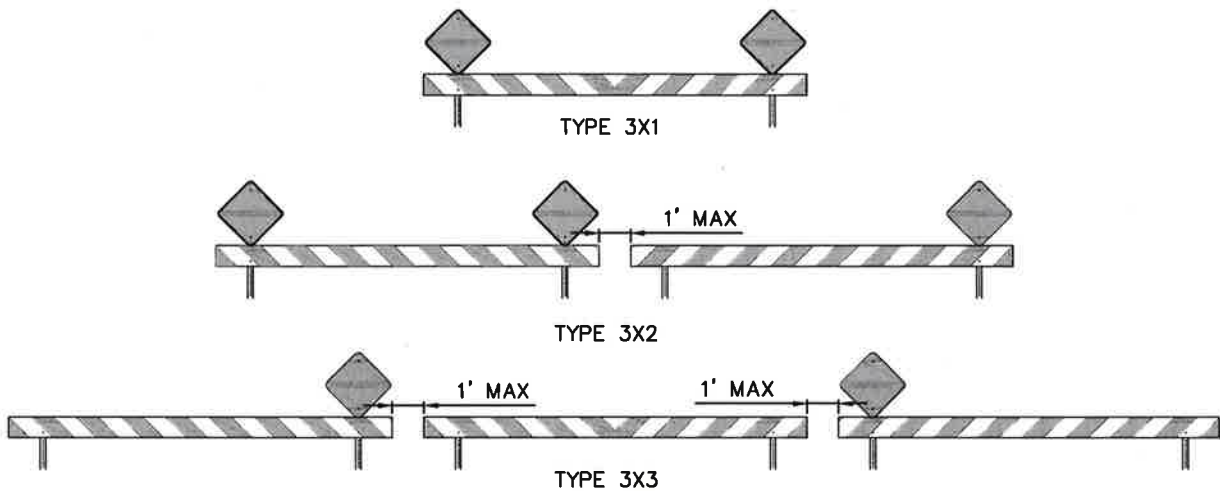
| | | |
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| <p>APPROVED BY  DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.  PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.</p> | <p>ADOPTED: 01/2012 REVISED: 04/2013 SUPERSEDES: 01/2012 CHECKED BY: GTQ SCALE: NTS DWG/REV. BY: MDH</p> | <p>SIGNING REQUIREMENTS STREET NAME/CARDINAL DIRECTION CHANGE  ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON STANDARD PLAN No. G-91</p> |
|---|---|--|





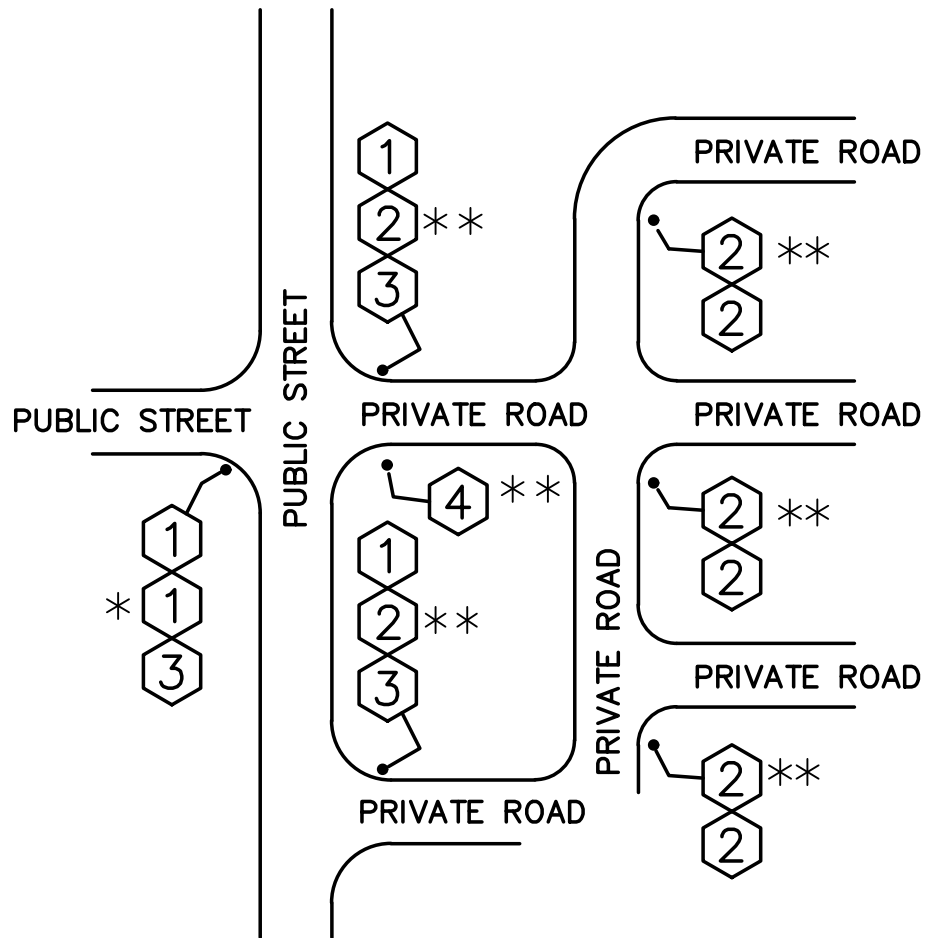
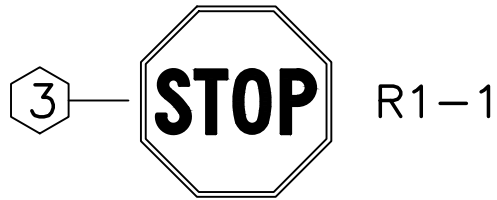


NOTES:

1. POSTS SHALL BE TELES PAR BRAND SQUARE TUBING OR APPROVED EQUAL. SIGN POST MUST BE BREAKAWAY AND ACCEPTABLE PER NCHRP 350
2. FOR TYPE A AND B SIGN POST INSTALLATION REFER TO COS STANDARD PLANS G-10A AND G-10B. SEE CONTRACT PLANS FOR SPECIFIC TYPE TO INSTALL.




| | | | |
|--|---|--|--|
| <p>APPROVED BY</p>  <p>ENGINEERING OPERATIONS MANAGER KYLE TWHOIG</p>  <p>CITY ENGINEER DANIEL ALBERT BULLER, P.E.</p> | <p>ADOPTED: 03/2013 REVISED: 02/2017 SUPERSEDES: 03/2013 CHECKED BY: MPE SCALE: NTS DWG/REV. BY: EWS/MLD</p> | <p style="text-align: center;">END OF ROAD BARRICADE</p> <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> | <p>STANDARD PLAN No. G-92A</p> |
|--|---|--|--|

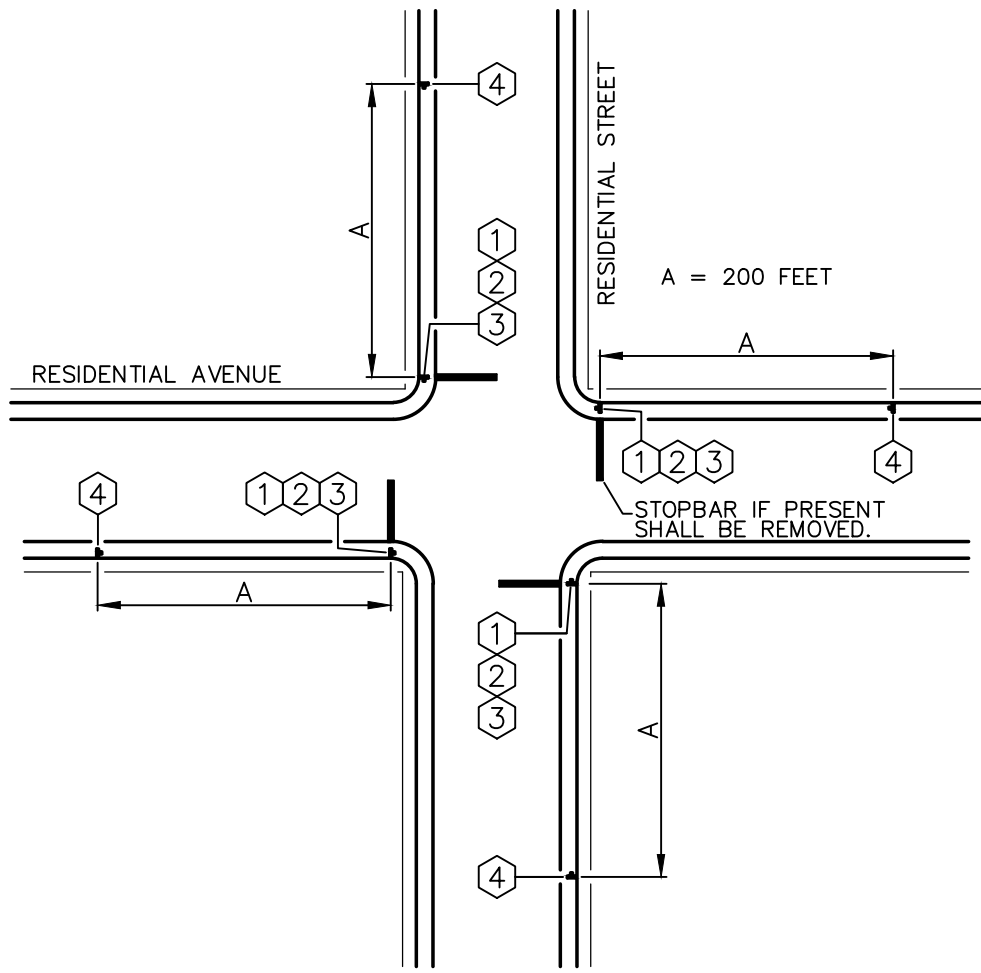
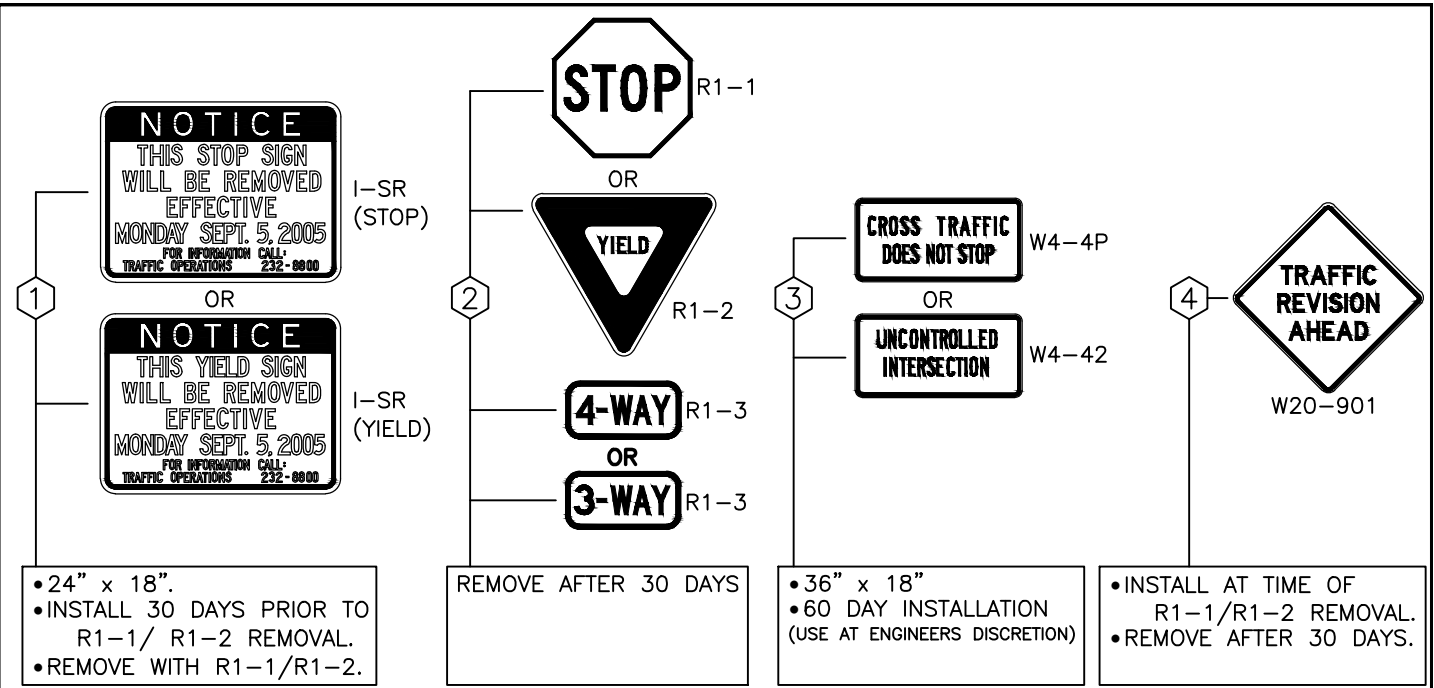


NOTES:

1. STOP SIGNS SHALL BE PLACED ON PRIVATE ROADWAYS, WHERE THEY INTERSECT WITH PUBLIC STREETS.
2. ALL SIGNING ON PRIVATE STREETS MUST MEET MUTCD AND CITY OF SPOKANE STANDARDS.
3. D3-SA SHALL BE BLUE WHEN MOUNTED WITH A D3-2SC.

* SIGNS & POST MAINTAINED BY CITY
 ** SIGNS & POST PRIVATELY MAINTAINED

| | | |
|--|---|---|
| <p>APPROVED BY</p>  <p>DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.</p> | <p>ADOPTED: _____ REVISED: 04/2023 SUPERSEDES: 03/2014 CHECKED BY: GTO SCALE: NTS DWG/REV. BY: BDH</p> | <p>SIGNING REQUIREMENTS PRIVATE ROADWAY</p> <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> <p>STANDARD PLAN No. G-93</p> |
|--|---|---|



APPROVED BY

[Signature]

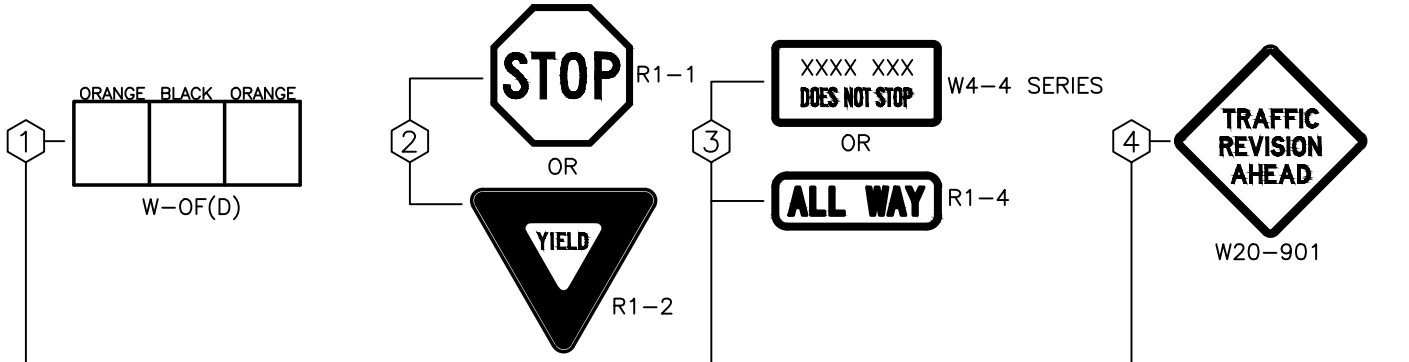
DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 01/2012
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**SIGNING REQUIREMENTS
 STOP/YIELD SIGN REMOVAL**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

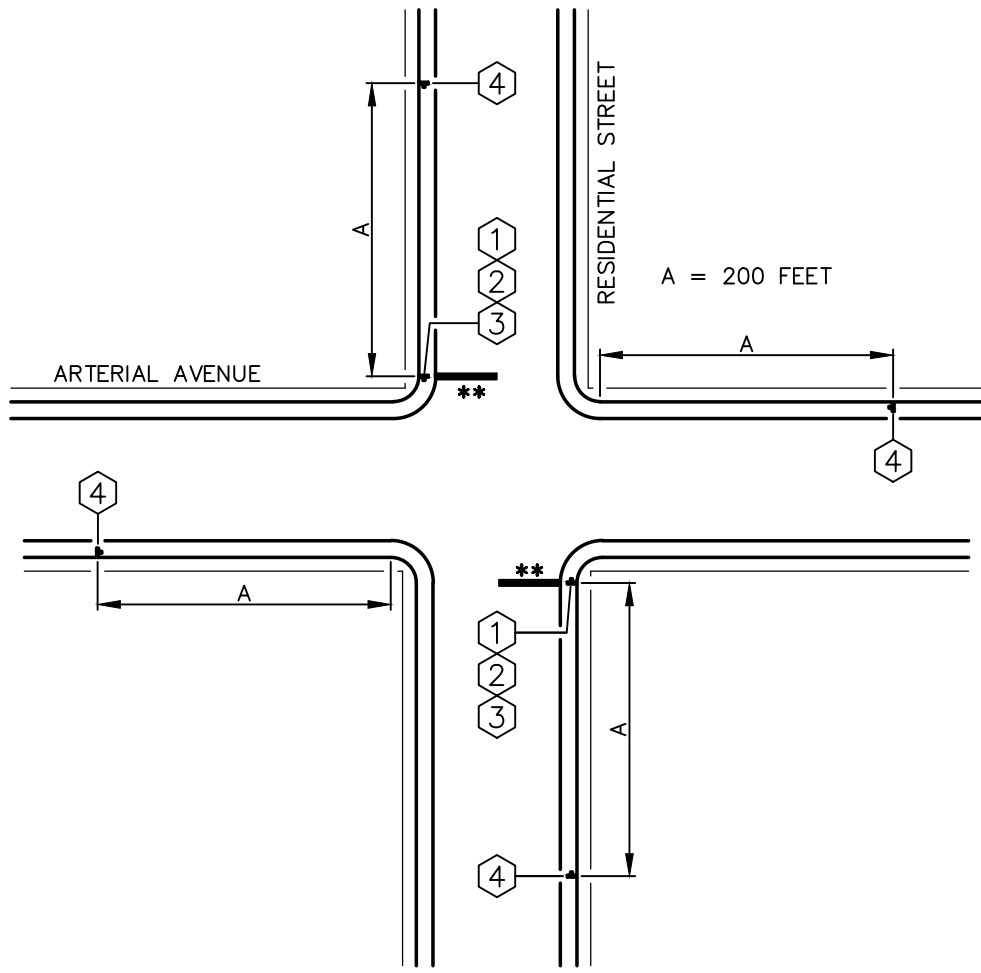
STANDARD PLAN No. **G-94A**



•INSTALL AT TIME OF R1-1/R1-2 INSTALLATION.
 •REMOVE AFTER 30 DAYS

•R1-4/W4-4 SERIES SIGNS ARE OPTIONAL.
 •R1-4, IF INSTALLED IS A PERMANENT INSTALLATION.
 •W4-4 SERIES IS EITHER BE PERMANENT OR 30 DAY TEMPORARY.
 (USE AT ENGINEERS DISCRETION)

•INSTALL AT TIME OF R1-1/R1-2 INSTALLATION.
 •REMOVE AFTER 30 DAYS



NOTES:

1. STOP BARS ARE OPTIONAL, AT THE ENGINEER'S DISCRETION.
2. TREES, FOLIAGE OR SHRUBBERY SHALL BE REMOVED/TRIMMED TO MEET SMC 17C.110.230(G)1.
3. INSTALLATION OF A STOP AHEAD (W3-1A) FOR PERMANENT VISUAL OBSTRUCTION MAY NEED TO BE INSTALLED AT THE ENGINEER'S DISCRETION.

APPROVED BY

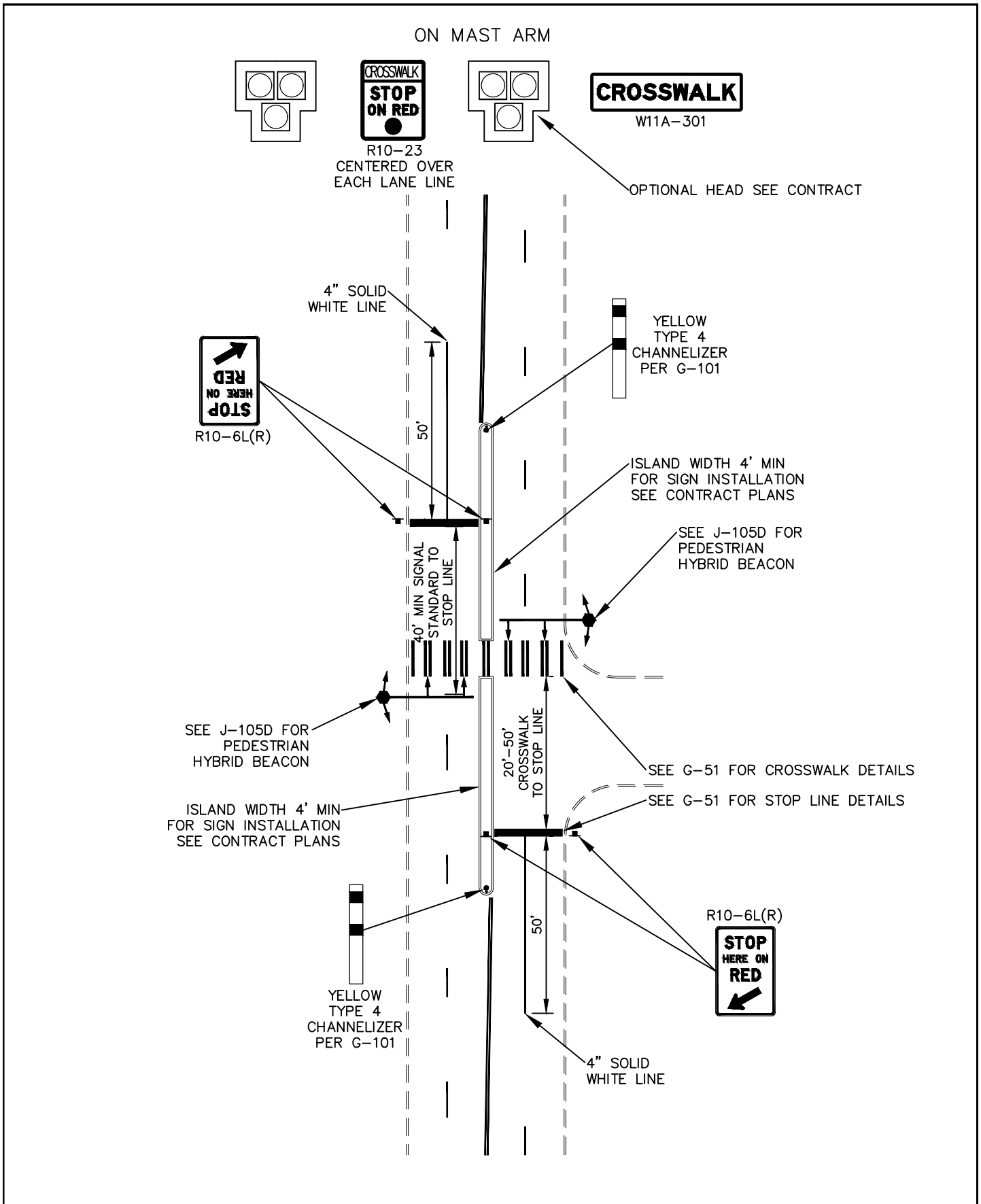
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: 04/2023
 REVISED: _____
 SUPERSEDES: _____
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**SIGNING REQUIREMENTS
 STOP/YIELD SIGN INSTALLATION**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No.
G-94C



APPROVED BY

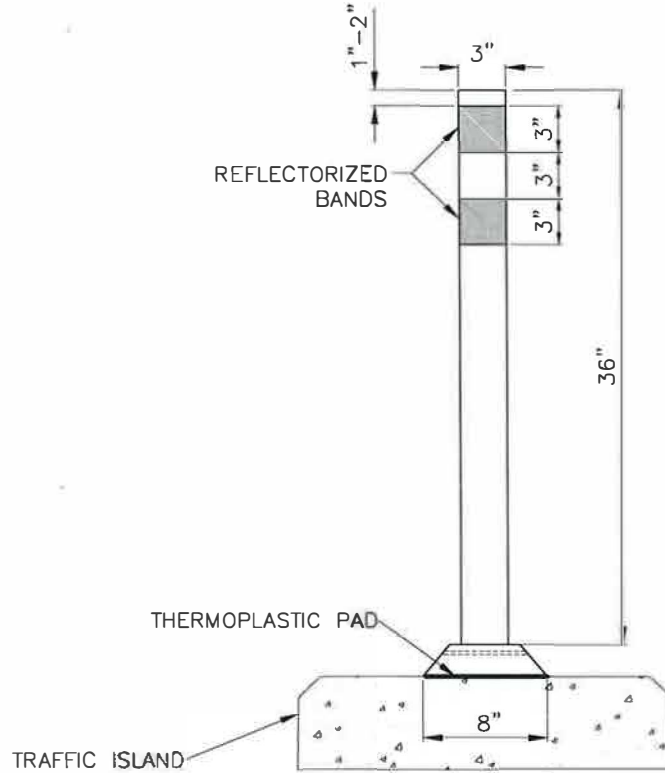
 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 08/2021
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: JHM

**SIGNING REQUIREMENTS
 PEDESTRIAN HYBRID BEACON**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No.
G-95



TYPE 1 CHANNELIZING DEVICE
SURFACE MOUNT

SURFACE MOUNT NOTES:




1. MANUFACTURER: SAFEHIT
 ISLAND MOUNT: SHL36SMAE1WS-03 = TUBE, BASE AND PIN
 SHL36SMRE1WS-03 = TUBE ONLY

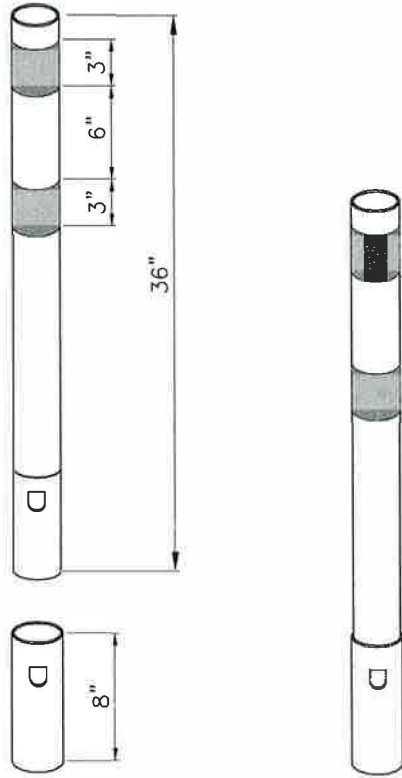
 MEDIAN MOUNT: SHL36SMAE1YA-03 = TUBE, BASE AND PIN
 SHL36SMRE1YA-03 = TUBE ONLY

 SLSMA-1---BL = BASE AND PIN ONLY

 8434056 = SUPER BUNDY

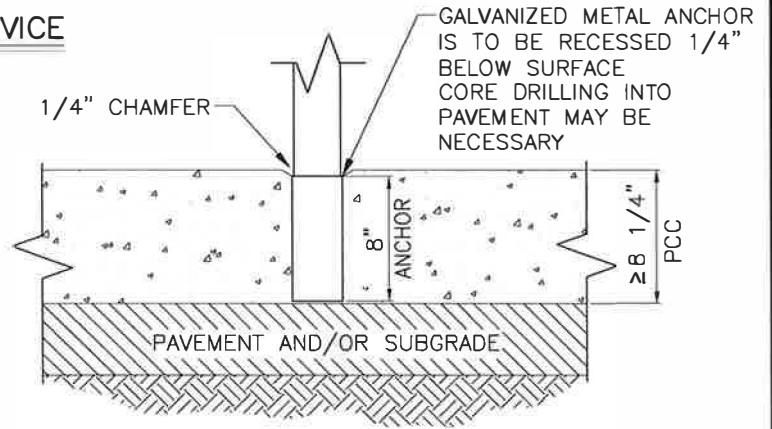
 621209 = CONCRETE SEALER
2. BASE SHALL BE SECURED TO SURFACE WITH TWO HEAT APPLIED PREFORMED THERMOPLASTIC PADS, ONE DIRECTLY ON TOP OF THE OTHER, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION SPECIFICATIONS. AT A MINIMUM, THE PADS WILL COMPLETELY COVER THE SURFACE AREA THAT THE BASE WILL CONTACT.

| | | |
|--|---|---|
| <p align="center">APPROVED BY</p>  <p>ENGINEERING OPERATIONS MANAGER KYLE TWOHIG</p>  <p>PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.</p> | <p>ADOPTED: 01/2012 REVISED: 02/2015 SUPERSEDES: (G-100) 03/2014 CHECKED BY: GTO SCALE: NTS DWG/REV. BY: MDH</p> | <p align="center">TRAFFIC ISLAND / MEDIAN CHANNELIZERS - TYPE 1</p>  <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> <p align="right">STANDARD PLAN No. G-100A</p> |
|--|---|---|



TYPE 2 CHANNELIZING DEVICE

EMBEDDED



EMBEDDED NOTES:

- MANUFACTURER: SAFEHIT
 ISLAND MOUNT: SH536GP1-WS = TUBE AND ANCHOR
 SH536GPR-WS = TUBE ONLY

 MEDIAN MOUNT: SH536GP1-YA = TUBE AND ANCHOR
 SH536GPR-YA = TUBE ONLY

 SHA1-080E-GL = ANCHOR ONLY

APPROVED BY

Kyle Twohig
 ENGINEERING OPERATIONS MANAGER KYLE TWOHIG
Kenneth M. Brown
 PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

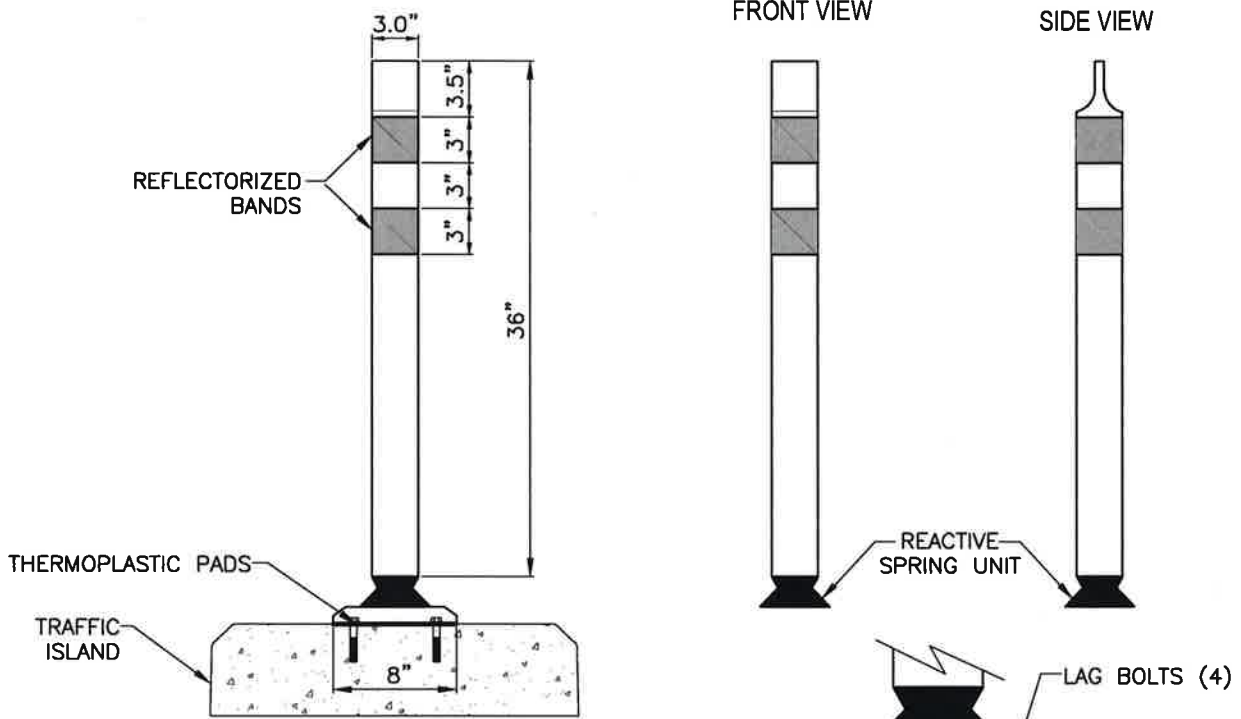
ADOPTED: 02/2015
 REVISED: _____
 SUPERSEDES: _____
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: MDH

TRAFFIC ISLAND / MEDIAN
 CHANNELIZERS - TYPE 2



ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
 G-100B



TYPE 3 CHANNELIZING DEVICE
SURFACE MOUNT - REACTIVE

REACTIVE MOUNT NOTES:

1. MANUFACTURER: IMPACT RECOVERY SYSTEMS

ISLAND MOUNT: TP2-36WS-HW-HW = 36" WHITE TUFF POST W/ 2 BANDS (SHORT SQUEEZE)
 BS-SMFW = FIXED BASE (WHITE)
 IM-ANCHOR KIT = ANCHOR KIT W/ 4-4" LAG SCREWS
 8434056 = SUPER BUNDY

MEDIAN MOUNT: TP2-36YS-HY-HY = 36" YELLOW TUFF POST W/ 2 BANDS (SHORT SQUEEZE)
 BS-SMFY = FIXED BASE (YELLOW)
 IM-ANCHOR KIT = ANCHOR KIT W/ 4-4" LAG SCREWS
 8434056 = SUPER BUNDY

2. FOLLOW MANUFACTURER'S INSTRUCTIONS (#BS-SMxx FIXED BASE),
 FOR INSTALLING SUPER BUNDY & LAG SCREWS.

APPROVED BY

[Signature]
 ENGINEERING OPERATIONS MANAGER KYLE TWOHIG
[Signature]
 CITY ENGINEER DANIEL ALBERT BULLER, P.E.

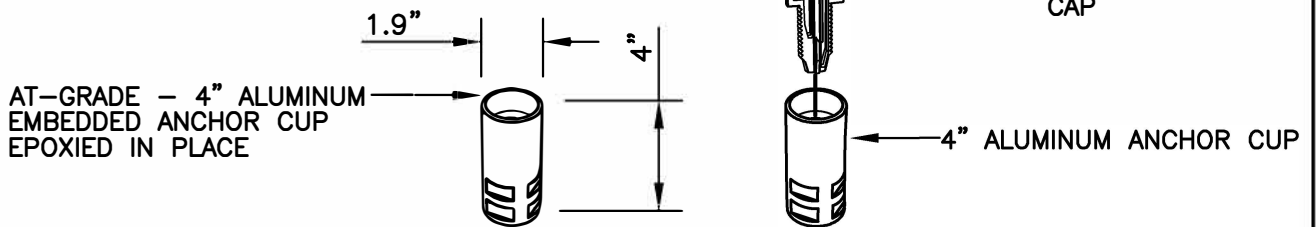
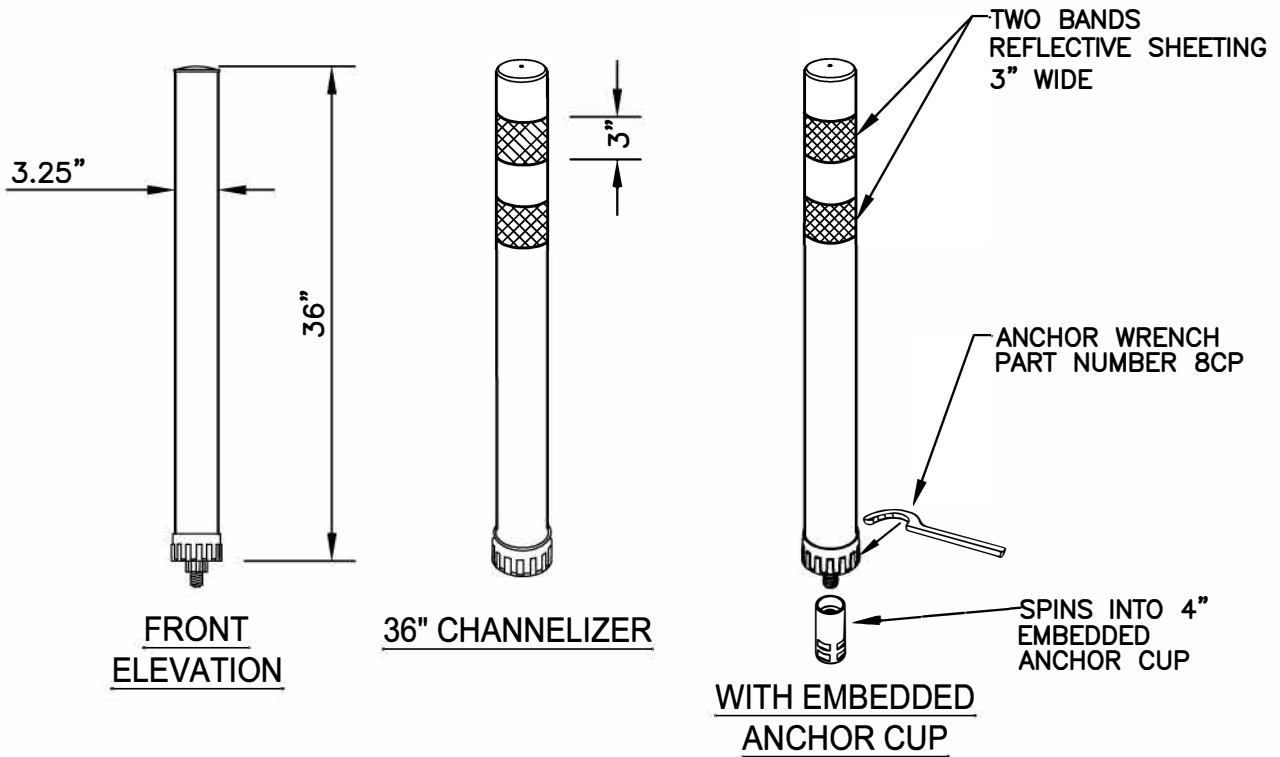
ADOPTED: 04/2015
 REVISED: 02/2017
 SUPERSEDES: 04/2015
 CHECKED BY: GTQ
 SCALE: NTS
 DWG/REV. BY: GOM/MLD



**TRAFFIC ISLAND / MEDIAN
 CHANNELIZERS - TYPE 3**

ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

**STANDARD
 PLAN No.
 G-100C**





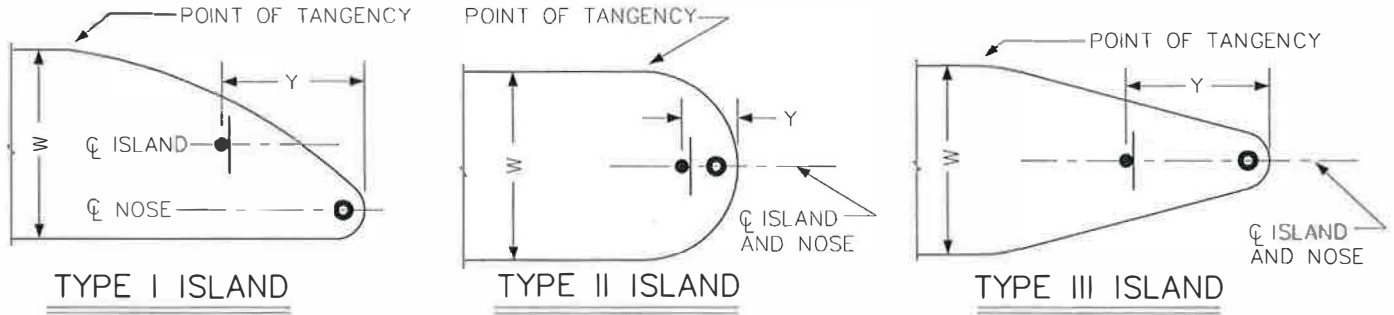
NOTES

1. MANUFACTURER PEXCO
 - ISLAND/CURB MOUNT (PERMANENT): 833CP36WHT104 = 36" WHITE CITY POST W/ 2 SILVER BANDS
 - CURB MOUNT (TEMPORARY): 833CP36FLO100 = 36" ORANGE CITY POST W/ 2 SILVER BANDS
800BASE213 = 4" ANCHOR CUP
 - MEDIAN MOUNT: 833CP36YEL104 = 36" YELLOW CITY POST W/ 2 YELLOW BANDS
800BASE213 = 4" ANCHOR CUP

8CPWRENCH = CITY POST WRENCH
800BASE218 = CUP PLUG

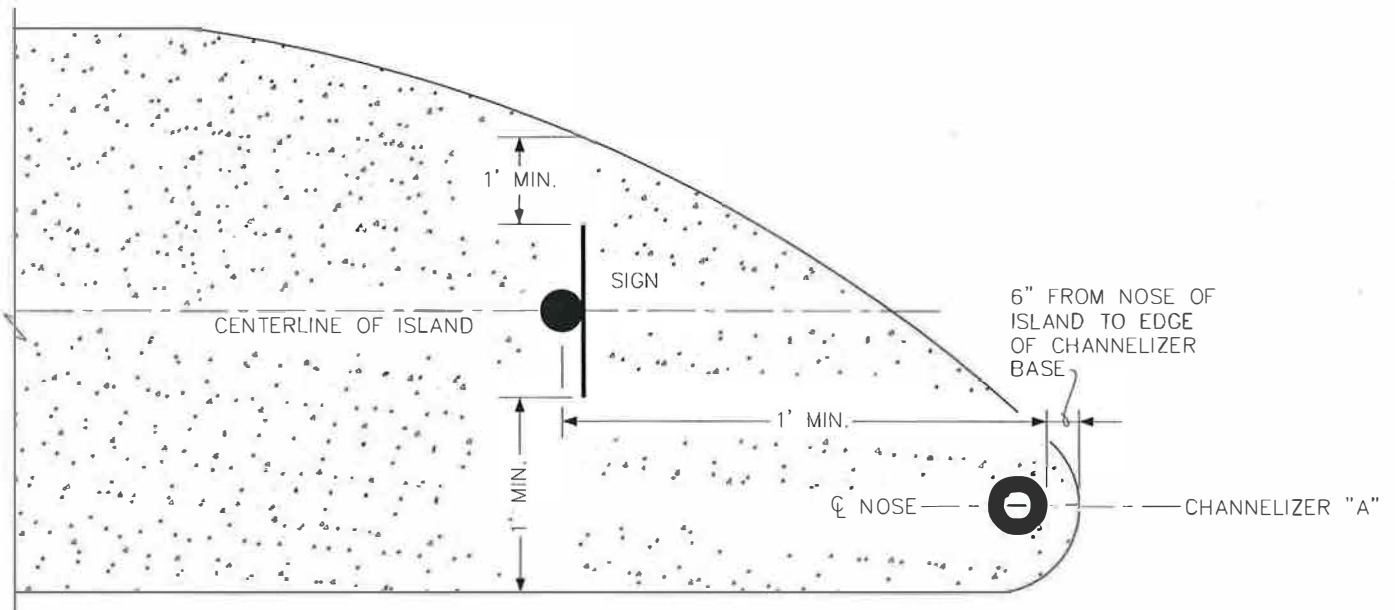
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWINGS.
4. SEE PLANS FOR CHANNELIZER COLOR.

| | | |
|--|---|--|
| <p>APPROVED BY</p>  <p>ENGINEERING OPERATIONS MANAGER KYLE TWOHIG</p>  <p>CITY ENGINEER DANIEL ALBERT BULLER, P.E.</p> | <p>ADOPTED: <u>11/2018</u></p> <p>REVISED: _____</p> <p>SUPERSEDES: _____</p> <p>CHECKED BY: <u>GTO</u></p> <p>SCALE: <u>NTS</u></p> <p>DWG/REV. BY: <u>MDH</u></p> | <p>TRAFFIC ISLAND / MEDIAN CHANNELIZER TYPE 4</p> |
| <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> | | <p>STANDARD PLAN No. G-100D</p> |





| ISLAND WIDTH - W | Y < 5' | Y ≥ 5' |
|------------------|--------|---------|
| W < 4' | A only | A only |
| 4' ≤ W < 6' | S only | S and A |
| W ≥ 6' | S only | S and A |

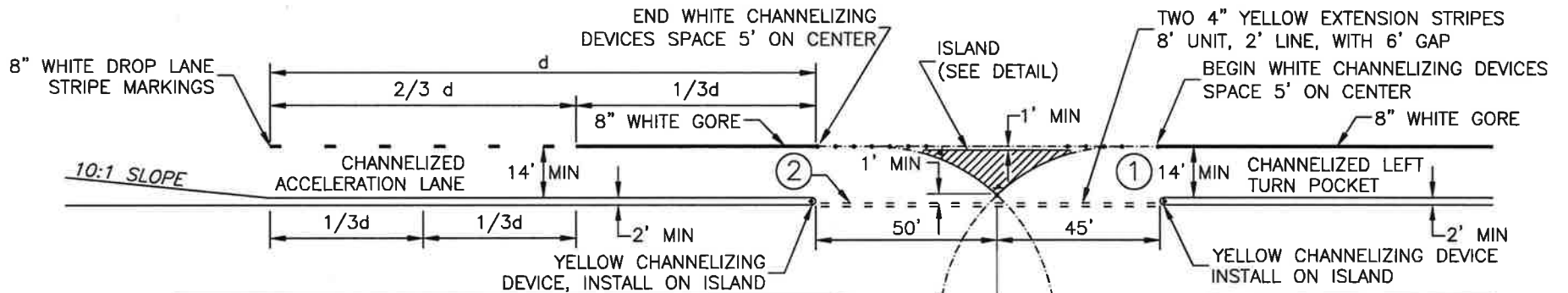
A - CHANNELIZER "A"
S - SIGN



NOTE:

1. CHANNELIZER "A" SHALL BE INSTALLED ON CENTERLINE OF NOSE OF ISLAND, 6 INCHES FROM ISLAND TIP.
2. REFER TO G-100 FOR CHANNELIZER SPECIFICATIONS AND MOUNTING INSTRUCTIONS.
3. THE APPROPRIATE SIGN SHALL BE INSTALLED ON THE ISLAND SUCH THAT THE EDGE OF THE SIGN IS A MINIMUM OF 1 FOOT FROM THE NEAREST EDGE OF THE ISLAND AND THE POST IS A MINIMUM OF 1 FOOT FROM THE NOSE OF THE ISLAND. SEE CHART ABOVE.

| | | |
|--|--|--|
| <p>APPROVED BY</p>  <p>DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.</p> | <p>ADOPTED: 01/2012</p> <p>REVISED:</p> <p>SUPERSEDES:</p> | <p>TRAFFIC ISLAND / MEDIAN CHANNELIZER AND SIGN LAYOUT</p> |
| | <p>CHECKED BY: GTO</p> <p>SCALE: NTS</p> <p>DWG/REV. BY: JHM</p> | |
| <p>PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.</p> |  | <p>STANDARD PLAN No. G-101</p> |



ALL MEASUREMENTS GIVEN WHERE NOT A MAXIMUM OR MINIMUM ARE TYPICAL

STOP BARS ARE OPTIONAL, IF NEEDED PER TRAFFIC ENGINEER.

SEE G101 FOR SIGN INSTALLATION

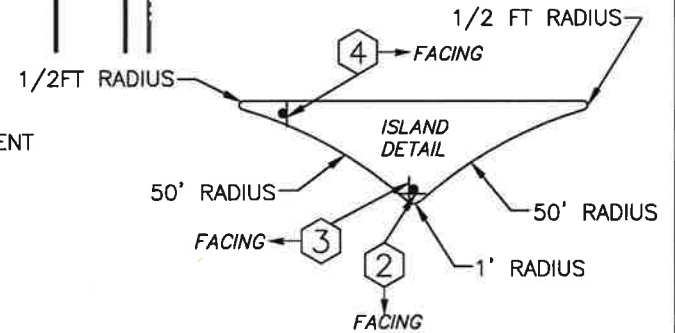
- ① — R1-1
- ② — R4-8B
- ③ — R3-2
USED WITH THRU LANE
- ④ — W4-1L
USED WITH ACCELERATION LANE

NOTE:

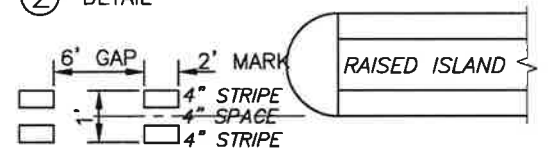
1. d = MUTCD MINIMUM ADVANCE WARNING SIGN PLACEMENT DISTANCE, AS PER TABLE 2C-4, CONDITION A.

| POSTED SPEED LIMIT | DISTANCE (FEET) |
|--------------------|-----------------|
| 20 | 225 |
| 25 | 325 |
| 30 | 450 |
| 35 | 550 |
| 40 | 650 |
| 45 | 750 |

- A. DISTANCE SHOULD NOT BE LESS UNLESS DETERMINED BY A PROPER ENGINEERING STUDY.
- B. DISTANCE MAY BE INCREASED DEPENDING ON SPECIFIC SITE GEOMETRICS.



- ① SAME AS ACCELERATION LANE
- ② DETAIL



CHANNELIZING DEVICE
(REFER TO STANDARD PLAN G-100 AND CONTRACT PLANS)

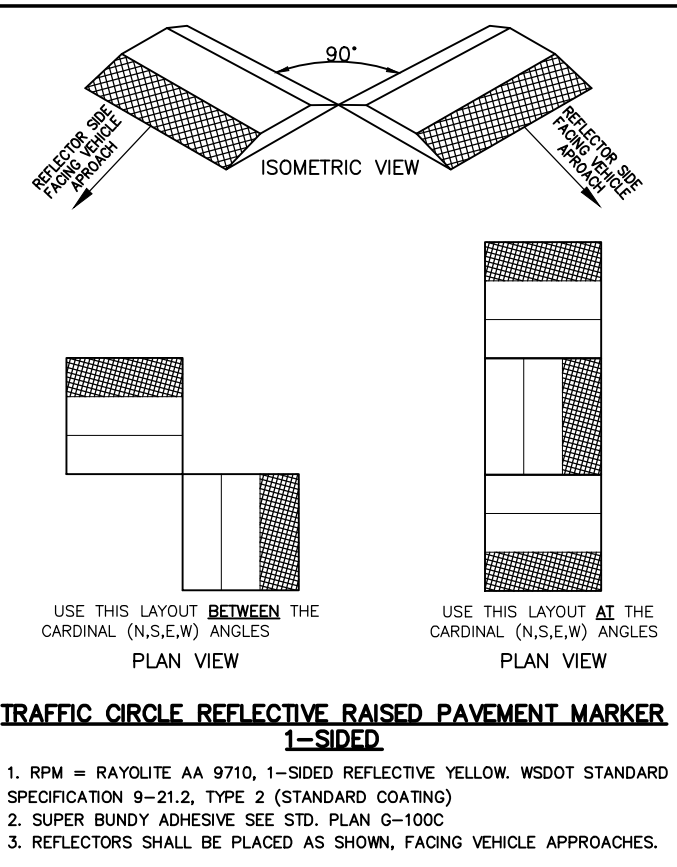
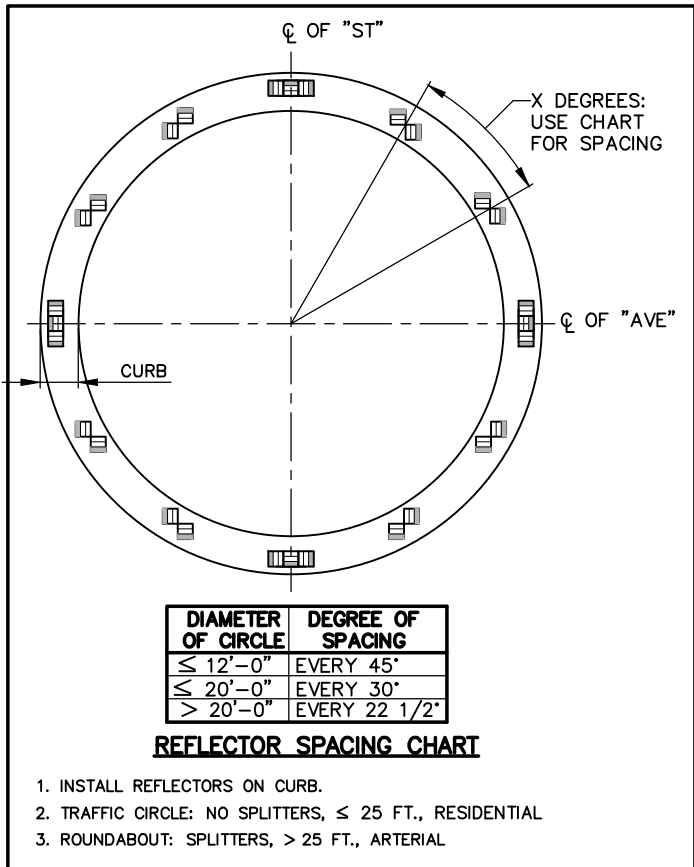
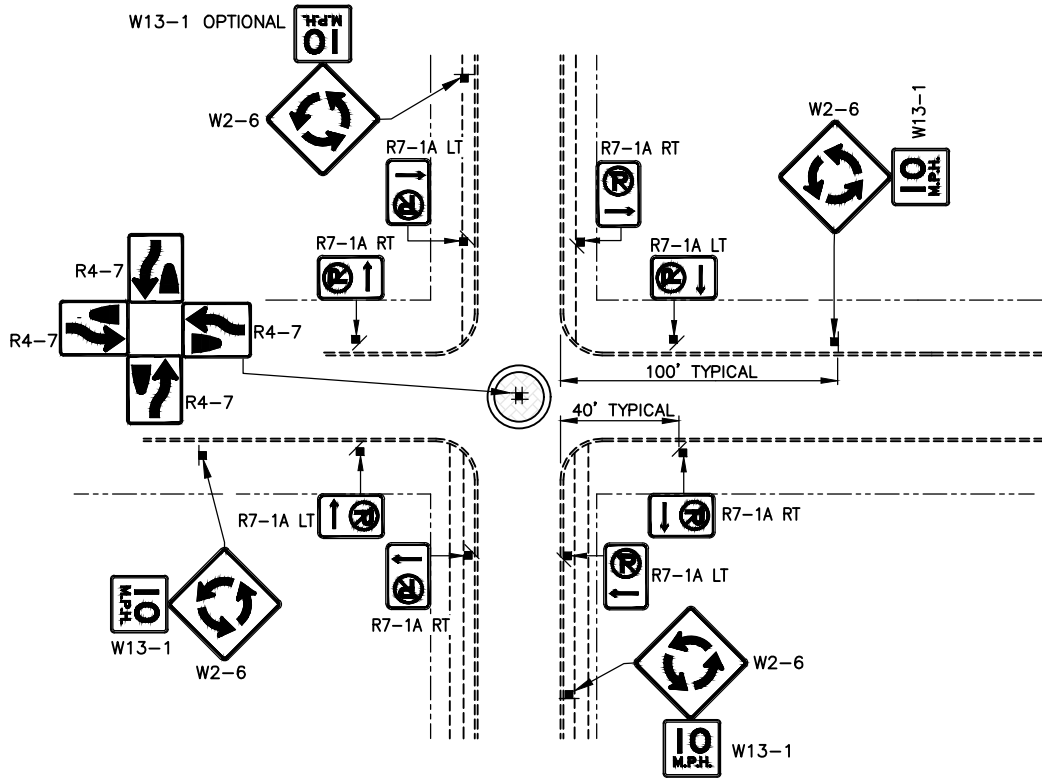
APPROVED BY

ENGINEERING OPERATIONS MANAGER KYLE TWOHIG

CITY ENGINEER DANIEL ALBERT BULLER, P.E.

ADOPTED: 01/2012
REVISED: 01/2017
SUPERSEDES: 01/2012
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: JHM/MLD

TRAFFIC ISLAND / MEDIAN GULL WING LAYOUT
ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON
 STANDARD PLAN No. G-102



APPROVED BY

 DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

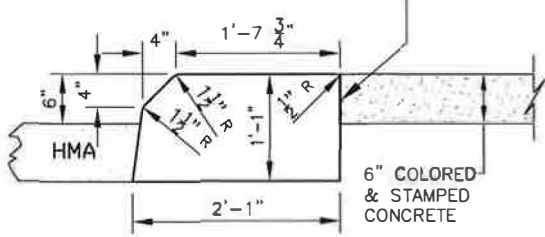
ADOPTED: _____
 REVISED: 04/2023
 SUPERSEDES: 02/2017
 CHECKED BY: GTO
 SCALE: NTS
 DWG/REV. BY: BDH

**TRAFFIC ISLAND / MEDIAN
 TRAFFIC CIRCLE LAYOUT**
 PAGE 1 OF 2

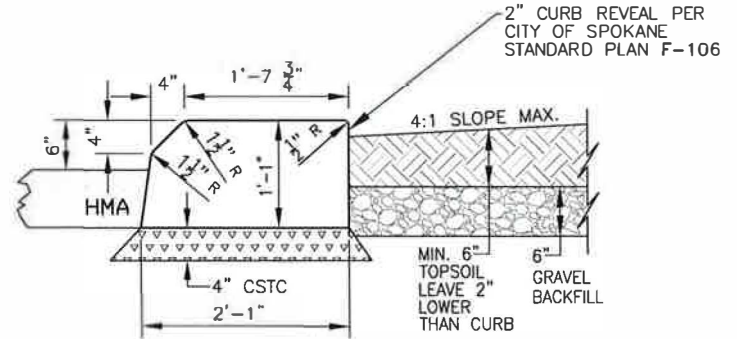
ENGINEERING SERVICES
 CITY OF SPOKANE, WASHINGTON

STANDARD
 PLAN No.
G-103

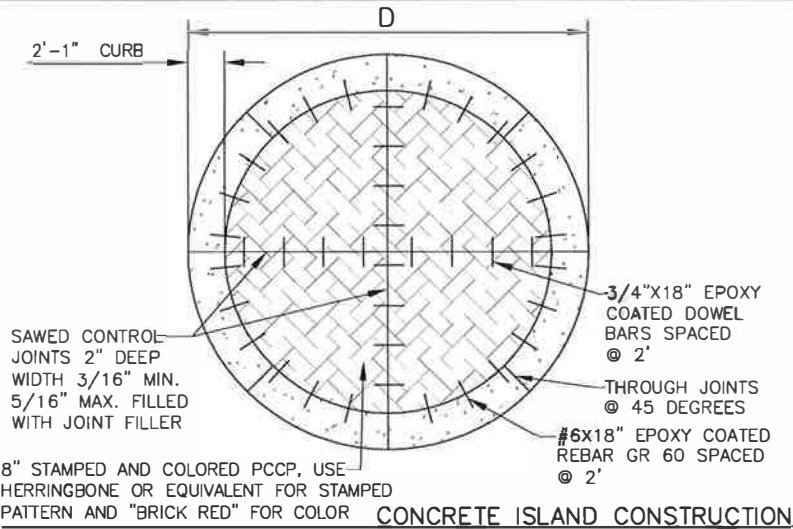
PLACE EXPANSION JOINT @ BACK OF CURB & CENTER ISLAND CURB, USE 3/8" PREMOLDED JOINT FILLER FULL DEPTH, TO PREVENT BONDING.



CURB WITH CONCRETE INFILL



CURB WITH TOPSOIL INFILL

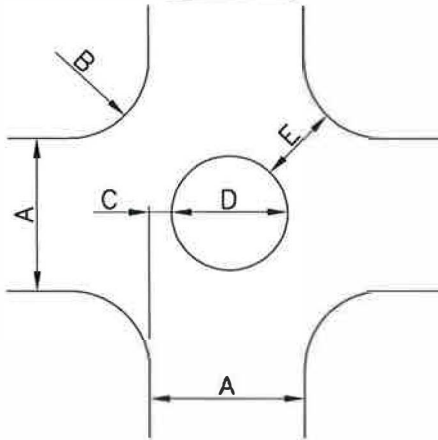


CONCRETE ISLAND CONSTRUCTION

DIMENSIONS

| A STREET WIDTH | B CURB RETURN RADIUS | C OFFSET DISTANCE | D CIRCLE DIAMETER | E OPENING WIDTH |
|----------------------|-------------------------------|-------------------------|-------------------------|-----------------------|
| 20' | <15' | RECONSTRUCT | RECONSTRUCT | RECONSTRUCT |
| | 15' | 5.5' | 9' | 16'+ |
| | 18' | 5.0' | 10' | 17'+ |
| | 20' | 4.5' | 11' | 18'+ |
| 24' | 25' | 4.0' | 12' | 19'+ |
| | <12' | RECONSTRUCT | RECONSTRUCT | RECONSTRUCT |
| | 12' | 5.5' | 13' | 16' |
| | 15' | 5.0' | 14' | 17'- |
| 25' | 20' | 4.5' | 15' | 18'+ |
| | 25' | 3.5' | 17' | 19'+ |
| | <12' | RECONSTRUCT | RECONSTRUCT | RECONSTRUCT |
| | 12' | 5.5' | 14' | 16'+ |
| 30' | 15' | 5.0' | 15' | 17'- |
| | 18' | 4.5' | 16' | 18'- |
| | 20' | 4.0' | 18' | 18'+ |
| | 25' | 3.0' | 24' | 20'+ |
| 32' | 10' | 5.5' | 19' | 16'+ |
| | 12' | 5.0' | 20' | 17'- |
| | 15' | 4.5' | 21' | 17'+ |
| | 18' | 4.0' | 22' | 18'+ |
| 36' | 20' | 4.0' | 22' | 18'+ |
| | 25' | 2.5' | 27' | 20'+ |
| | <12' | RECONSTRUCT | RECONSTRUCT | RECONSTRUCT |
| | 10' | 5.0' | 26' | 17'- |
| 40' | 12' | 5.0' | 26' | 17'+ |
| | 15' | 4.5' | 27' | 18'+ |
| | 18' | 4.0' | 28' | 18'+ |
| | 20' | 3.5' | 29' | 19'+ |
| | 25' | 1.5' | 33' | 20'- |
| | 10' | 5.0' | 30' | 17'+ |
| | 12' | 4.5' | 31' | 18'+ |
| | 15' | 4.0' | 32' | 19'- |
| | 18' | 3.5' | 33' | 19'+ |
| | 20' | 3.0' | 34' | 20'- |
| | 25' | 1.0' | 38' | 20'+ |

GEOMETRY



NOTE

1. BALANCE "C" AND "E" DIMENSIONS FOR ALL LEGS OF THE INTERSECTION.

OPTIMUM CRITERIA

| C OFFSET DISTANCE | E OPENING WIDTH |
|-------------------------|-----------------------|
| 5.5' | 16' MIN. |
| 5.0' | 17' ± |
| 4.5' | 18' ± |
| 4.0' | 19' ± |
| 3.5' OR LESS | 20' ± |

APPROVED BY

K. Brown
ENGINEERING OPERATIONS MANAGER KYLE TWOHIG
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

ADOPTED: 01/2012
REVISED: 03/2015
SUPERSEDES: 01/2012
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: MDH

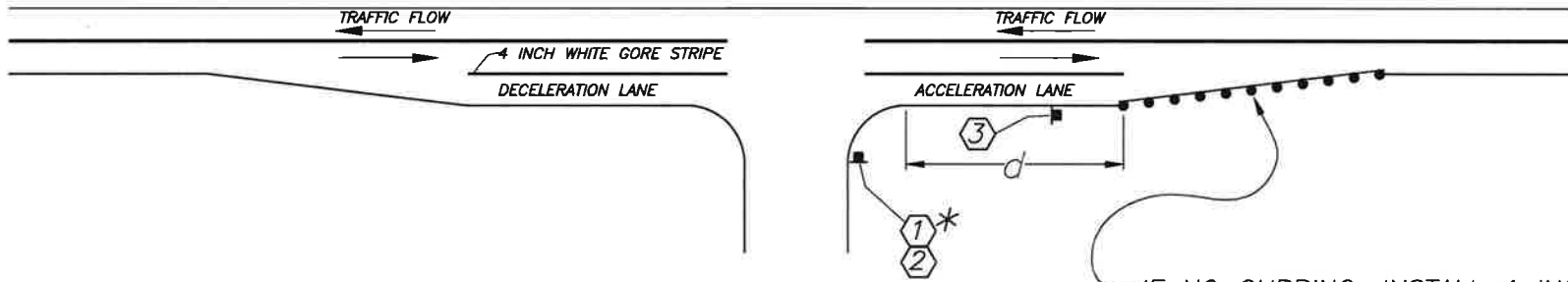
TRAFFIC ISLAND / MEDIAN
TRAFFIC CIRCLE LAYOUT
PAGE 2 OF 2



ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON


STANDARD
PLAN No.
G-103

TEE INTERSECTION



①  **R1-1**
*WHERE WARRANTED



②  **STREET NAME SIGNS**
PER CITY STANDARDS

③  **W4-2L**
INSTALL IF $d >$ THAN 400 FEET

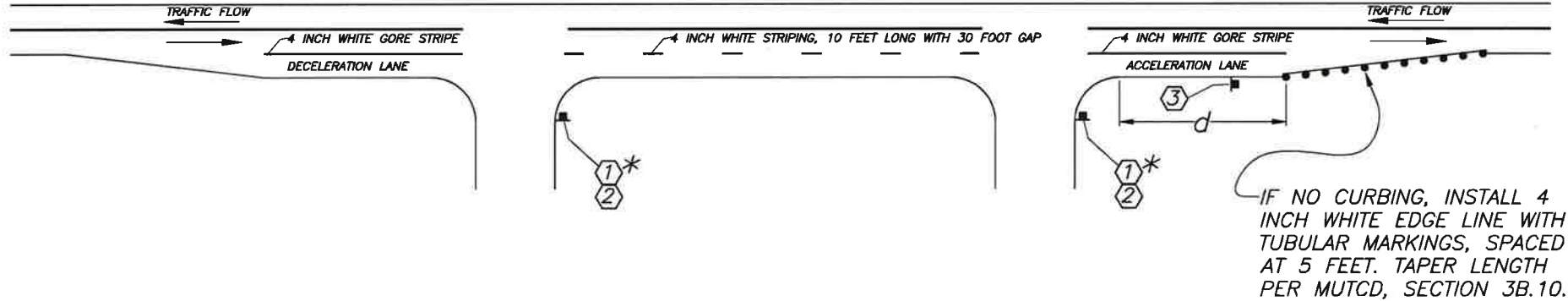
IF NO CURBING, INSTALL 4 INCH WHITE
EDGE LINE WITH TUBULAR MARKINGS,
SPACED AT 5 FEET. TAPER LENGTH PER
MUTCD, SECTION 3B.09.

NOTE:

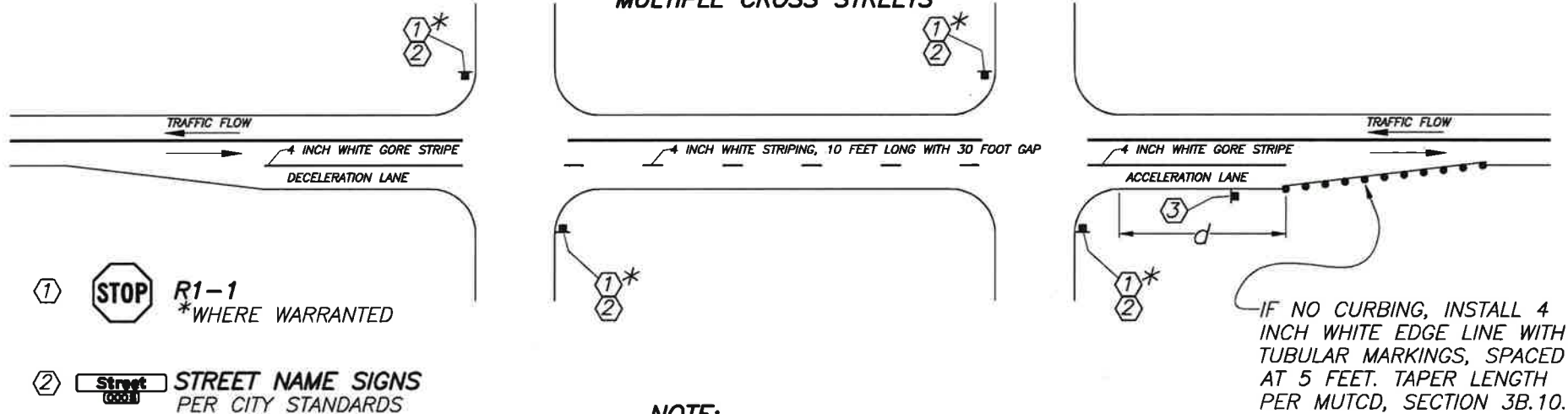
1. ALL SIGNING SHALL BE INSTALLED PER CITY OF SPOKANE G-SERIES.
2. DO NOT BREAK LANE LINES FOR PRIVATE ROADWAYS AND DRIVEWAYS.

| | | |
|--|---|--|
| <p>APPROVED BY</p>  <p>ENGINEERING OPERATIONS MANAGER KYLE TWOHIG</p>  <p>CITY ENGINEER DANIEL ALBERT BULLER, P.E.</p> | <p>ADOPTED: 01/2012 REVISED: 02/2017 SUPERSEDES: 01/2012 CHECKED BY: GTO SCALE: NTS DWG/REV. BY: JHM/MLD</p> | <p>DECELERATION/ACCELERATION LANES INITIAL DEVELOPMENT</p> <p>ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON</p> <p>STANDARD PLAN No. G-110A</p> |
|--|---|--|

MULTIPLE TEE INTERSECTION



MULTIPLE CROSS STREETS



- ① **R1-1**
*WHERE WARRANTED
- ② **STREET NAME SIGNS**
PER CITY STANDARDS
- ③ **W4-2L**
INSTALL IF $d >$ THAN 400 FEET

NOTE:
 1. ALL SIGNING SHALL BE INSTALLED PER CITY OF SPOKANE G-SERIES.
 2. DO NOT BREAK LANE LINES FOR PRIVATE ROADWAYS AND DRIVEWAYS.

| | | | |
|--|--|---|--------------------------------|
| APPROVED BY ENGINEERING OPERATIONS MANAGER KYLE TWOHIG | ADOPTED: 01/2012 REVISED: 03/2017 SUPERSEDES: 01/2012 CHECKED BY: GTO SCALE: NTS DWG/REV. BY: JHM/MLD | DECELERATION/ACCELERATION LANES CONTINUED DEVELOPMENT | |
| CITY ENGINEER DANIEL ALBERT BULLER, P.E. | ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON | | STANDARD PLAN No. G-110B |