

CITY OF TUALATIN STANDARD DRAWINGS TABLE OF CONTENTS

DWG Number	Eff. Date	Title			
001	Oct 2020	STANDARD GENERAL NOTES			
005	Oct 2020	EXAMPLE SINGLE FAMILY EROSION & SEDIMENT CONTROL SITE PLAN			
	SEWERS (STORM AND SANITARY)				
010	3/1/2003	MANHOLE - 48-INCH ECCENTRIC CONE TOP			
011	3/1/2003	MANHOLE - 48-INCH FLAT TOP			
012	3/1/2003	MANHOLE - 60-INCH ECCENTRIC CONE TOP			
013	3/1/2003	MANHOLE - 60-INCH FLAT TOP			
014	3/1/2003	MANHOLE - 72-INCH ECCENTRIC CONE TOP			
015	3/1/2003	MANHOLE - 72-INCH FLAT TOP			
016	3/1/2003	MANHOLE - 84-INCH ECCENTRIC CONE TOP			
017	3/1/2003	MANHOLE - 84-INCH FLAT TOP			
018	3/1/2003	MANHOLE - 96-INCH ECCENTRIC CONE TOP			
019	3/1/2003	MANHOLE - 96-INCH FLAT TOP			
020	3/1/2003	MANHOLE - OUTSIDE DROP ASSEMBLY			
021	3/1/2004	MANHOLE - INSIDE DROP ASSEMBLY			
030	3/1/2003	MANHOLE COVER AND FRAME - STANDARD			
031	3/1/2003	MANHOLE COVER AND FRAME - WATERTIGHT			
032	3/1/2003	MANHOLE STEPS			
040	3/1/2003	CATCH BASIN - 36-INCH GUTTER GRATE INLET			
041	3/1/2003	CATCH BASIN - 30-INCH CURB INLET			
042	3/1/2003	CATCH BASIN - 48-INCH CURB INLET			
043	3/1/2003	DITCH INLET - 24-INCH PIPE			
050	3/1/2003	CATCH BASIN - GRATE AND FRAME			
060	10/1/2005	MANHOLE - WATER QUALITY			
100	7/23/2018	CLEANOUT			
241	2/12/2018	TRENCH & SURFACE RESTORATION			
270	7/1/2004	CONCRETE PIPE SLOPE ANCHORS			
290	3/1/2004	UNDERCROSSING			
300	7/23/2018	SEWER BUILDING LATERAL			
310	3/1/2003	SUBGRADE DRAIN			
330	3/1/2003	PIPELINE STREAM CROSSING			



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DWG Number	Eff. Date	Title			
	TRANSPORTATION				
425	10/1/2005	STREET UTILITY LOCATIONS			
430	Oct 2020	STRIPING DETAILS			
431	Oct 2020	BIKE LANE TUBULAR MARKER			
432	Oct 2020	RIGHT TURN ADD LANE WITH BIKE LANE			
440	4/24/2017	COMMERCIAL DRIVEWAY APPROACH - CURBSIDE PLANTER STRIP			
441	4/25/2017	COMMERCIAL DRIVEWAY APPROACH - CURBSIDE SIDEWALK			
442	4/26/2017	RESIDENTIAL DRIVEWAY APPROACH - CURBSIDE PLANTER STRIP			
443	4/27/2017	RESIDENTIAL DRIVEWAY APPROACH - CURBSIDE SIDEWALK			
450	3/1/2003	PARABOLIC SPEED HUMP - CONSTRUCTION			
451	3/1/2003	PARABOLIC SPEED HUMP - PAVEMENT MARKINGS AND STREET SIGNS			
452	3/1/2003	SPEED TABLE HUMP - CONSTRUCTION			
453	3/1/2003	SPEED TABLE HUMP - PAVEMENT MARKINGS AND STREET SIGNS			
454	Oct 2020	SAFETY ISLAND			
455	Oct 2020	SHARED USE PATH INTERSECTION WITH ROADWAY			
456	Oct 2020	INTERSECTION SAFETY ISLAND			
457	Oct 2020	CHANNELIZED RIGHT TURN LANE			
458	Oct 2020	TRAFFIC CIRCLE			
460	7/23/2018	ADA CURB RAMP - GENERAL NOTES			
461	12/31/2016	ADA CURB RAMP - PERPENDICULAR			
462	6/11/2015	ADA CURB RAMP - PARALLEL			
463	11/19/2013	ADA CURB RAMP - MIDBLOCK			
464	4/29/2012	.2 ADA CURB RAMP - DETAILS			
470	4/24/2017	CURB AND GUTTER			
471	4/24/2017	CURB			
472	Oct 2020	CURB EXTENSIONS AND CORNER RADII			
475	7/23/2018	CONCRETE SIDEWALK			
480	2/12/2018	ASHPALT REPAIR FOR NEWLY PAVED ROADS			
481	2/12/2018	CONCRETE ROADWAY			
482	2/12/2018	TEMPORARY STEEL PLATES			
483	2/12/2018	TEMPORARY SURFACING			
484	2/12/2018	PAVEMENT CORING REPAIR			
490	Oct 2020	SINGLE SIDED (SOLAR) RECTANGULAR RAPID FLASHING BEACON ASSEMBLY			
491	Oct 2020	DUAL SIDED (SOLAR) RECTANGULAR RAPID FLASHING BEACON ASSEMBLY			
493	Oct 2020	SOLAR VEHICLE SPEED SIGN PEDESTAL			



CITY OF TUALATIN STANDARD DRAWINGS TABLE OF CONTENTS

DWG Number	Eff. Date	Title	
500	10/1/2005	MAILBOX POST INSTALLATION	
510	3/1/2003	STREET BARRICADE	
511	2/1/2002	STREET BARRICADE SIGN	
512	3/1/2004	STORMWATER FACILITY SIGN	
514	1/1/2013	TREE WELL AND GRATE	
516	12/31/2016	STREET SIGN POST	
517	12/31/2016	STREET NAME SIGN	
520	4/1/2010	CENTERLINE SURVEY MONUMENT	
530	7/9/2018	FOLD-DOWN BOLLARD	
		WATER	
600	4/1/2010	VALVE - GATE	
601	4/1/2010	VALVE - BUTTERFLY	
602	3/1/2008	VALVE - 1-INCH AIR RELEASE	
603	3/1/2008	VALVE - 2-INCH AIR RELEASE	
604	3/1/2008	SAMPLE STATION	
605	3/1/2008	MAINLINE VALVE ASSEMLBY - PERMANENT BLOW-OFF	
606	3/1/2008	MAINLINE VALVE ASSEMLBY - TEMPORARY BLOW-OFF	
607	12/1/2018	REDUCED PRESSURE BACKFLOW ASSEMBLY (EXTERIOR) - 3/4" THROUGH 2"	
608	12/1/2018	REDUCED PRESSURE BACKFLOW ASSEMBLY (INTERIOR) - 3/4" THROUGH 2"	
609	12/1/2018	DOUBLE CHECK BACKFLOW ASSEMBLY - 3/4" THROUGH 1"	
610	12/1/2018	FIRE HYDRANT ASSEMBLY	
611	12/1/2018	DOUBLE CHECK BACKFLOW ASSEMBLY - 1-1/2" THROUGH 2-1/2"	
612	12/1/2018	REDUCED PRESSURE BACKFLOW ASSEMBLY (INTERIOR) - 2-1/2" THROUGH 10"	
613	12/1/2018	DOUBLE CHECK BACKFLOW ASSEMBLY - 3" THROUGH 10"	
614	12/1/2018	DOUBLE CHECK DETECTOR FIRE PROTECTION - WITHOUT FDC	
615	12/1/2018	DOUBLE CHECK DETECTOR FIRE PROTECTION - WITH FDC CONNECTION	
616	12/1/2018	DOUBLE CHECK VALVE ASSEMLY - INSIDE BLDG. 3/4" THROUGH 2"	
617	617 12/1/2018 REDUCED PRESSURE BACKFLOW ASSEMBLY (EXTERIOR) - 2-1/2" THROUGH 10"		
620	7/1/2003	PIPE JOINT RESTRAINT - BEARING THRUST BLOCKS	
621	7/1/2003	PIPE JOINT RESTRAINT - GRAVITY THRUST BLOCKS	
622	7/1/2003	PIPE JOINT RESTRAIN - STRADDLE THRUST BLOCKS	
630	Oct 2020	WATER SERVICE - 5/8" X 3/4" METER	
631	Oct 2020	WATER SERVICE - 1" METER	
632	Oct 2020	WATER SERVICE - 1-1/2"METER	
633	Oct 2020	WATER SERVICE - 2" METER	
634	12/1/2018	WATER SERVICE - 3" AND LARGER METER COMPOUND TYPE	

GENERAL NOTES APPLICABLE TO ALL CITY OF TUALATIN DETAILS:

- 1. ALL STRUCTURES MUST BE LOCATED OUTSIDE OF THE PEDESTRIAN TRAVEL PATH. IF STRUCTURES ARE REQUIRED TO BE LOCATED PARTIALLY OR FULLY IN THE PEDESTRIAN TRAVEL WAY, THE STRUCTURES MUST ADHERE TO PROWAG'S SURFACE REQUIREMENTS (PROWAG R302.7).
- 2. RIMS OF STRUCTURES LOCATED WITHIN THE PEDESTRIAN TRAVEL WAY MUST BE FLUSH WITH SURROUNDING GRADE, AND CHANGES IN LEVEL MUST NOT EXCEED $\frac{1}{4}$ " OR $\frac{1}{2}$ " WITH A 1:2 BEVEL (PROWAG R302.7.2).
- 3. GAPS BETWEEN SURFACES OR GRATINGS MAY NOT EXCEED $\frac{1}{2}$ " (PROWAG R302.7.3). STRUCTURES WITH GAPS THAT EXCEED $\frac{1}{2}$ " SHALL BE LOCATED OUTSIDE THE PEDESTRIAN TRAVEL PATH.
- 4. SURFACES OF LIDS OF GRATES MUST BE FIRM, STABLE, AND SLIP RESISTANT (PROWAG R302.7).
- 5. OBJECTS LOCATED WITHIN THE PEDESTRIAN TRAVEL WAY MUST MEET PROWAG REQUIREMENTS, SPECIFICALLY ROUTE WIDTH (PROWAG R302.3), PROTRUSION LIMITS (PROWAG R402), AND CLEAR SPACE REQUIREMENTS (PROWAG R404).
- 6. CATCH BASINS AND ADJACENT GUTTER SECTIONS REQUIRING PAVEMENT DEFORMATIONS SHALL NOT BE LOCATED IN PEDESTRIAN STREET CROSSINGS (MARKED OR UNMARKED) OR OTHER PEDESTRIAN PATH OF TRAVEL, OR SHALL BE LOCATED IN A MANNER THAT ADHERES TO PROWAG'S SLOPE REQUIREMENTS (PROWAG R302.5.1).



GENERAL NOTES

REVISED: VALID:

09/2020 10/2020 SCALE: NOT TO SCALE

DRAWN: M. SCHLAGEL

APPROVED: K. MCMILLAN

DWG NO.



EROSION & SEDIMENT CONTROL EXAMPLE SINGLE FAMILY SITE PLAN

SCHLAGEL

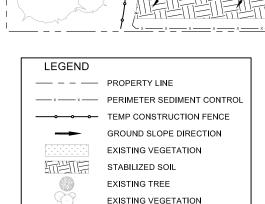
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MCMILLAN

DWG

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KEYNOTES:

- 1 MINIMIZE COMPACTION OF SURFACE INFILTRATION AREAS. INSTALL PROTECTION FENCING WHEN FEASIBLE.
- 2 IF VEGETATED CORRIDOR AND/OR OTHER SENSITIVE AREAS ARE PRESENT, INSTALL CONSTRUCTION FENCE ALONG BOUNDARY.

CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs)

REQUIRED BASE MEASURES

- PERIMETER SEDIMENT CONTROL
- CONSTRUCTION SITE ENTRANCE
- STORM DRAIN INLET PROTECTION

INSTALL INLET PROTECTION (TYPICAL)

STORAGE AREA

GRAVEL CONSTRUCTION

ENTRANCE

CONCRETE WASHOUT

NON-STORMWATER POLLUTION CONTROL BMPs

GUTTER & DOWNSPOUT

(TYPICAL)

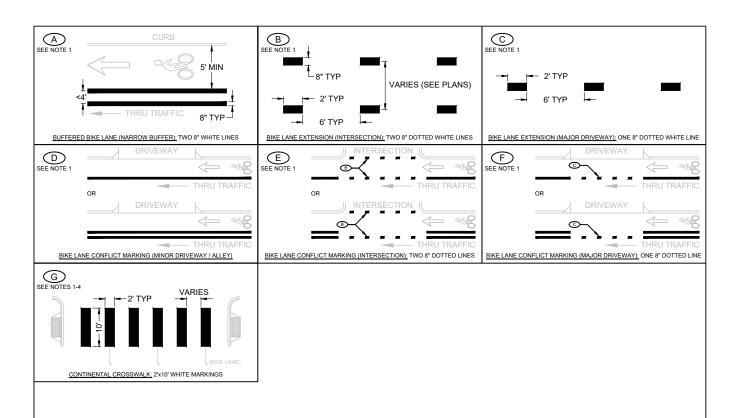
- STORE ALL PAINTS, STAINS, SOLVENTS, AND HAZARDOUS MATERIAL IN A COVERED STORAGE AREA.
- · DISPOSE OF ALL TRASH/DEBRIS THAT COULD ENTER STORM SYSTEM IN A DUMPSTER OR TRASH CAN.
- · CLEAN UP SPILLS PROMPTLY USING DRY CLEANUP METHODS.
- DISPOSE OF CONCRETE WASHOUT IN APPROVED LOCATIONS TO REDUCE POTENTIAL FOR DISCHARGE FROM CONSTRUCTION SITE.

ADDITIONAL CONSTRUCTION SITE BMPs

- · SWEEP STREET AND/OR HARD SURFACES DAILY AND PROPERLY DISPOSE OF ALL MATERIALS.
- · REMOVE TEMPORARY CONTROL MEASURES WHEN NO LONGER NEEDED.
- INSTALL GUTTERS & DOWNSPOUTS AS EARLY AS POSSIBLE. CAPTURE RUNOFF TO PREVENT ADDITIONAL ON SITE EROSION E.G. SWALE, RAIN GARDEN, FRENCH DRAIN.
- IF EXISTING VEGETATION IN RIGHT-OF-WAY IS DISTURBED AND SOIL IS EXPOSED, INSTALL A
 PERIMETER SEDIMENT CONTROL TO PREVENT MATERIAL FROM ENTERING ROADWAY.

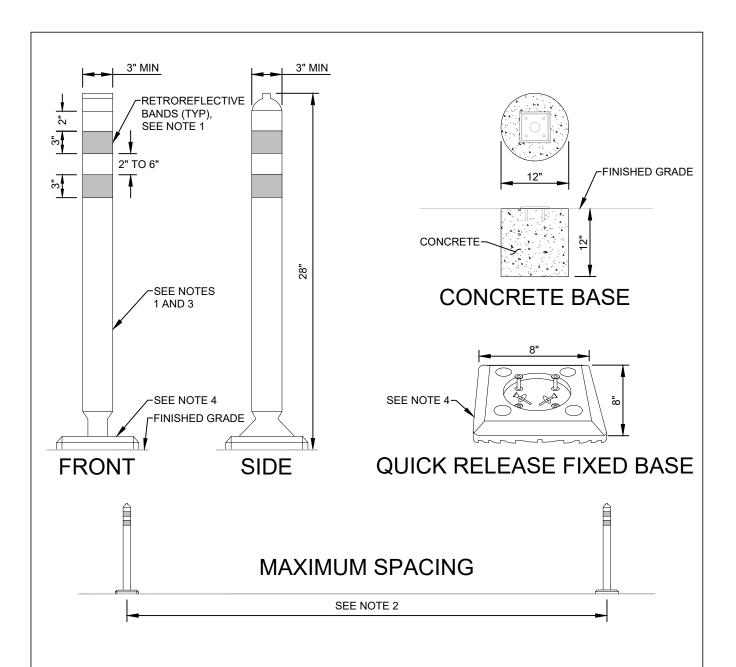
DO NOT DUMP OR WASH ANY MATERIAL INTO THE STORM DRAIN

DISCLAIMER: FOR GUIDANCE ONLY. BEST MANAGEMENT PRACTICES MAY VARY DEPENDING ON CONSTRUCTION SITE CHARACTERISTICS. FOR MORE INFORMATION ON EROSION CONTROL MEASURES PLEASE SEE CLEAN WATER SERVICES D&C STANDARDS CHAPTER 6 OR THE EROSION PREVENTION & SEDIMENT CONTROL MANUAL (VERSION 1, MAY 5, 2016)



- 1. USE 120 MILLIMETER WHITE HIGH SKID THERMOPLASTIC PAVEMENT MARKING MATERIAL.
- 2. USE CONTINENTAL CROSSWALK MARKINGS FOR ALL MARKED CROSSWALKS.
- 3. PLACE CROSSWALK BARS PARALLEL TO THE DIRECTION OF MOTOR VEHICLE TRAFFIC TO AVOID TIRE WEAR.
- 4. CENTER CROSSWALK BARS ON LANE LINES (1) AND AT CENTER OF LANES AS SHOWN TO AVOID TIRE WEAR.





- 1. TUBULAR MARKERS AND RETROREFLECTIVE MATERIAL TO BE THE SAME COLOR AS THE SUPPLEMENTED PAVEMENT MARKING.
- 2. MAXIMUM SPACING DISTANCE EQUALS THE NUMERICAL VALUE OF THE ROADWAY DESIGN SPEED (MPH), IN FEET.
- 3. TUBULAR MARKER SHALL BE OBTAINED FROM 'IMPACT RECOVERY SYSTEMS, INC' (WHITE TUBULAR MARKER PRODUCT CODE: TP3-28WS-DW-DW-Q) OR APPROVED EQUAL. BOTTOM OF TUBULAR MARKER TO BE QUICK RELEASE. TUBULAR MARKER TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 4. BASE OF TUBULAR MARKER TO HAVE A "QUICK RELEASE" FEATURE (PRODUCT CODE: BS-SMQB). BASE TO BE INSTALLED USING ANCHOR KIT (PRODUCT CODE: IM-ANCHOR, SEE MANUFACTURER'S INSTRUCTIONS) OR "J" BOLTS SET INTO CONCRETE.

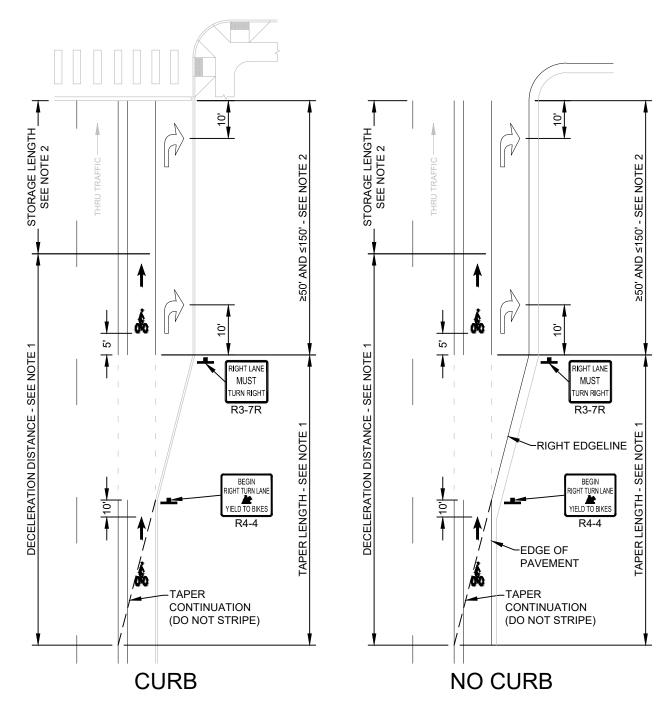


BIKE LANE TUBULAR MARKER

REVISED: 09/2020 VALID: 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

DWG NO.



- 1. SEE THE OREGON DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL FOR DESIGN VALUES.
- TURN POCKET NOT TO EXCEED 150' STORAGE LENGTH UNLESS OTHERWISE APPROVED BY CITY ENGINEER BASED ON ENGINEERING STUDY.
- 3. AVOID POSITIONING A THROUGH BIKE LANE TO THE RIGHT OF A RIGHT TURN LANE UNLESS CONFLICTING MOVEMENTS ARE CONTROLLED BY A TRAFFIC CONTROL SIGNAL.



09/2020

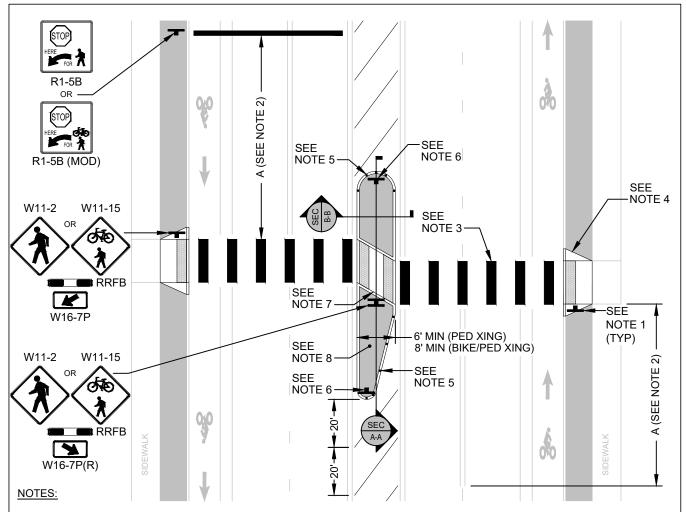
10/2020

RIGHT TURN ADD LANE WITH BIKE LANE

REVISED: VALID: SCALE: NOT TO SCALE

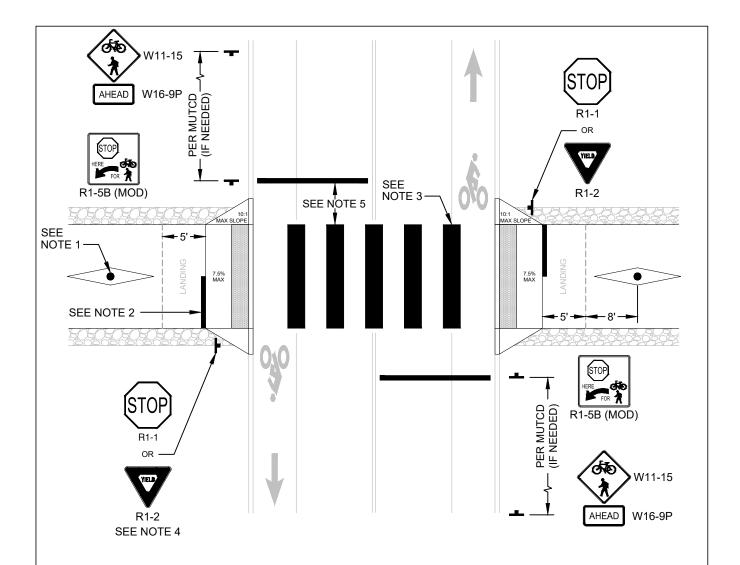
DRAWN: K. PAULSEN APPROVED: J. FUCHS

DWG NO.



- SINGLE SIDED OR DUAL SIDED (SOLAR) RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY AND PUSH BUTTON (SEE STD DWG #490 OR 491). NEAR-SIDE/FAR-SIDE PLACEMENT OF SIGN ASSEMBLY AT CROSSING LOCATION BASED ON SURROUNDING LAND USE AND APPROVAL BY CITY.
- 2. DISTANCE 'A' FOR ADVANCE 'STOP HERE FOR PEDESTRIANS' SIGN (R1-5B) AND LIMIT LINE BASED ON POSTED SPEED AND DETERMINED BY ENGINEER.
- 3. CONTINENTAL CROSSWALK, SEE STD DWG #430 DETAIL G.
- 4. CURB RAMP WITH TRUNCATED DOME DETECTABLE WARNING SURFACE PER STD DWG #460, 463, AND 464.
- 5. INSTALL YELLOW TYPE 1 BI-DIRECTIONAL RAISED PAVEMENT MARKER, MINIMUM OF 5 AT EACH END OF ISLAND. CITY ENGINEER TO APPROVE TYPE OF MEDIAN NOSE STYLE.
- 6. INSTALL "KEEP RIGHT" SIGN (R4-7) AND OBJECT MARKER SIGN (OM-3L) IN MEDIAN. USE WASHINGTON COUNTY DETAIL 6050 FOR SIGNING BASE.
- 7. ANGLE OF 30°. ISLAND WALKWAY AT ROAD GRADE LEVEL. PROVIDE MINIMUM 2' SEPARATION BETWEEN TRUNCATED DOME DETECTABLE WARNING SURFACE PANELS.
- 8. DO NOT LANDSCAPE MEDIAN ISLAND.
- 9. SEE WASHINGTON COUNTY DETAIL 2310 FOR SECTIONS A-A AND B-B.

CITY OF TUALATIN, OR			SAFETY ISLAND		
REVISED: VALID:	09/2020 10/2020	SCALE: NOT TO SCALE	DRAWN: K. PAULSEN APPROVED: J. FUCHS	DWG NO.	454



- 1. IF PATH IS WIDER THAN 9 FEET, INSTALL BOLLARD (SEE STD DWG #530) AND STRIPING (SEE MUTCD FIGURE 9C-8A).
- 2. (OPTIONAL) INSTALL LIMIT LINE OR YIELD MARKINGS CORRESPONDING TO TRAFFIC-CONTROL AT TRAIL APPROACH.
- 3. CONTINENTAL CROSSWALK, SEE STD DWG #440 DETAIL G.
- 4. DETERMINE 'STOP' OR 'YIELD' CONTROL BASED ON STOPPING SIGHT DISTANCE GUIDANCE IN CHAPTER 5 OF THE 2012 AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES.
- 5. DISTANCE FOR ADVANCE 'STOP HERE FOR PEDESTRIANS' SIGN (R1-5B) AND LIMIT LINE BASED ON POSTED SPEED AND ENGINEER'S AUTHORITY.
- 6. APPLY TREATMENT AT TRAIL CROSSINGS INTERSECTING ROADWAYS WITH POSTED SPEED ≤35 MPH AND WHERE THERE IS ADEQUATE SIGHT DISTANCE.
- 7. MEDIAN REFUGE ISLAND MAY BE REQUIRED AS DIRECTED BY CITY ENGINEER.
- 8. SIGNAL, RRFB, OR PHB MAY BE REQUIRED AS DIRECTED BY CITY ENGINEER.

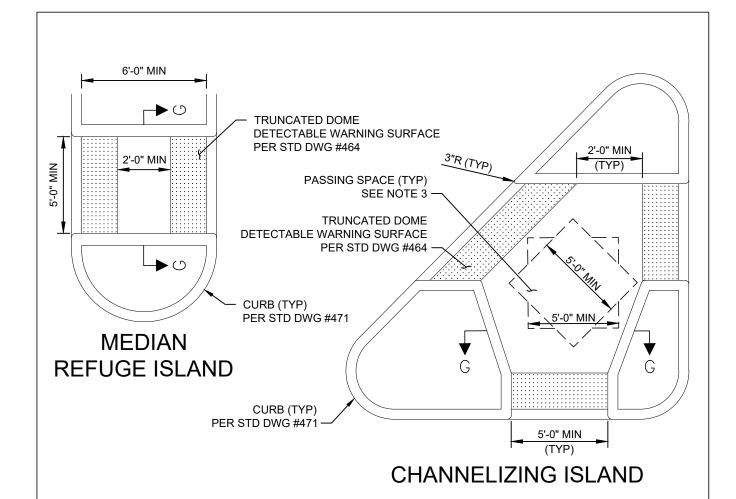


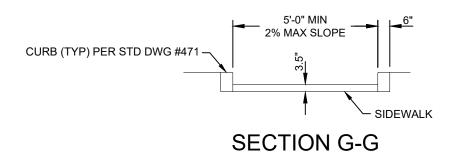
SHARED USE PATH INTERSECTION WITH ROADWAY

REVISED: VALID: 09/2020 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

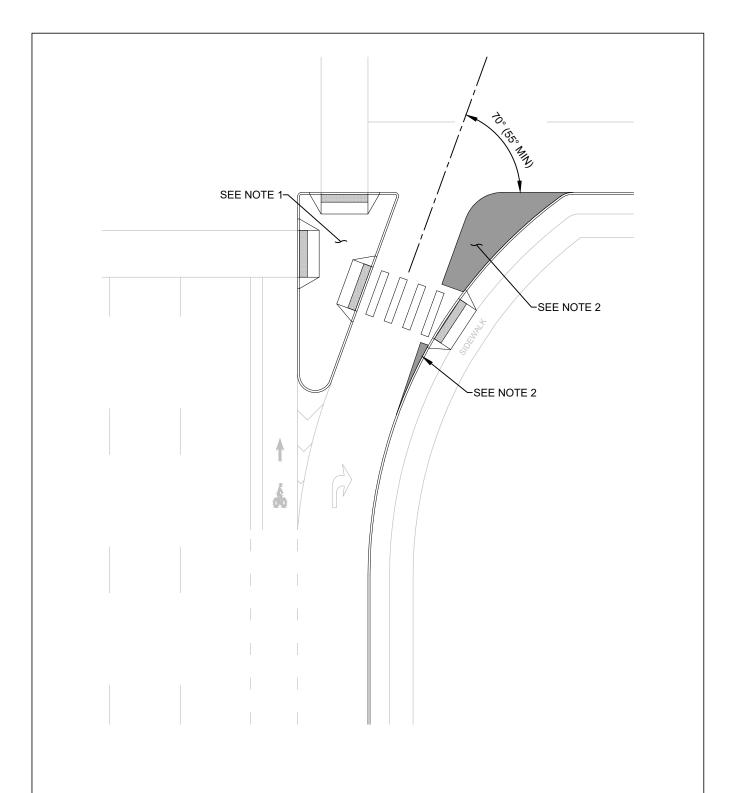
DWG NO.





- 1. DETAILS ARE INTENDED TO SHOW MINIMUM REQUIRED CLEARANCES AND DETECTABLE WARNING SURFACE PLACEMENT LOCATIONS.
- 2. USE CUT-THROUGH OR STANDARD CURB RAMP DETAILS FOR PEDESTRIAN ACCESS ROUTES THROUGH ISLAND.
- 3. PROVIDE A MINIMUM 5'-0" x 5'-0" PASSING SPACE FOR EACH PEDESTRIAN ACCESS ROUTE THROUGH ISLAND.





- 1. INTERSECTION SAFETY ISLAND, SEE STD DWG #456.
- 2. MOUNTABLE TRUCK APRON TO ACCOMMODATE DESIGN VEHICLE.

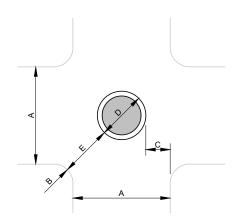


CHANNELIZED RIGHT TURN LANE

REVISED: VALID: 09/2020 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

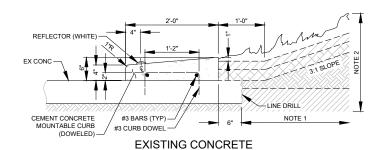
DWG NO.



Α	B	C	D	E
STREET	CURB RETURN	SET BACK	CIRCLE	OPENING
WIDTH	RADIUS	DISTANCE	DIAMATER	WIDTH
	<15'	RECONSTRUCT CURBS		
	15'	5.5'	9'	16'+
20'	18'	5.0'	10'	17'+
	20'	4.5'	11'	18'-
	25'	4.0'	12'	19'+
	<12'	RECONSTRUCT CURBS		
	12'	5.5'	13'	16'+
24'	15'	5.0'	14'	17'-
	20'	4.5'	15'	18'+
	25'	3.5'	17'	20'-
	<12'		NSTRUCT CU	
	12'	5.5'	14'	16'+
25'	15'	5.0'	15'	17'-
25	18'	4.5'	16'	18'-
	20'	4.5'	16'	18'+
	25'	3.5'	18'	20'-
	10'	5.5'	19'	16'+
	12'	5.0'	20'	17'-
30'	15'	5.0'	20'	17'+
30	18'	4.5'	21'	18'+
	20'	4.0'	22'	19'+
	25'	3.0'	24'	20'
	10'	5.5'	21'	16'+
	12'	5.0'	22'	17'-
32'	15'	4.5'	23'	18'-
32	18'	4.0'	24'	19'-
	20'	4.0'	24'	19'+
	25'	2.5'	27'	20'
	10'	5.0'	26'	17'-
	12'	5.0'	26'	17'+
36'	15'	4.0'	27'	18'+
50	18'	4.0'	28'	19'+
	20'	3.5'	29'	20'-
	25'	1.5'	33'	20'
	10'	5.0'	30'	17'+
	12'	4.5'	31'	18'+
40'	15'	4.0'	32'	19'-
40	18'	3.5'	33'	20'-
	20'	3.0'	34'	20'
	25'	1.0'	38'	20'
	-	5.5' MAX	-	16' MIN
OPTIMUM	-	5'	-	17'±
CRITERIA	-	4.5'	-	18'±
CIVILLINIA	I -	4'	-	19'±
		3.5' OR LESS		20'



 REMOVE PAVEMENT AND BASE COURSE, THOROUGHLY LOOSEN SUBSOIL TO 6" DEPTH (AFTER COMPLETE REMOVAL OF ALL PAVEMENT AND BASE MATERIAL).



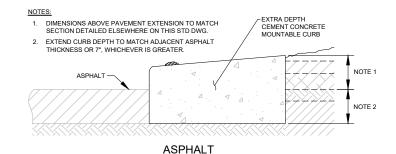
CEMENT CONCRETE MOUNTABLE CURB
(DOWELED) AS DETAILED ABOVE

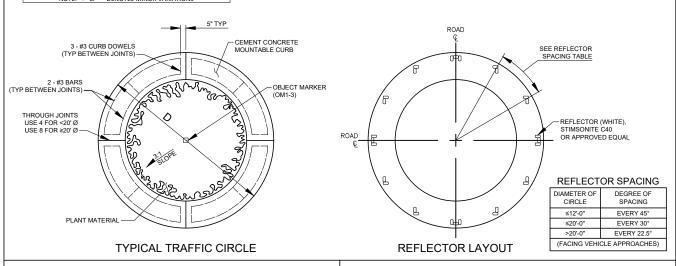
#3 BARS (TYP)

#3 CURB DOWEL

NEW CONCRETE

NEW CONCRETE





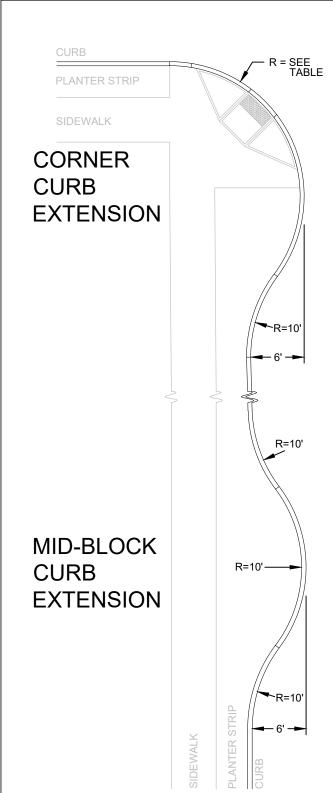


TRAFFIC CIRCLE

REVISED: 09/2020 VALID: 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

DWG NO.



INTERSECTING STREETS	CURB RADIUS
NEIGHBORHOOD YIELD STREETS	10'
ALL OTHER STREETS (EXCEPT FREIGHT STREETS)	20'
MINOR FREIGHT STREETS	25'
MAJOR FREIGHT STREETS	30'

- SIZE CURB EXTENSIONS SO GUTTER PAN JOINT, IF PRESENT, IS OUTSIDE OF THE BIKE LANE.
- BEGIN CURVATURE OF CURB BULB NO LESS THAN 10' BEYOND THE CROSSWALK.
- IF CURB EXTENSION IS LANDSCAPED, USE LOW GROWING VEGETATION TO MAINTAIN ADEQUATE SIGHT DISTANCE.
- 4. USE YELLOW PAINT ON TOP AND FACE OF CURB. DO NOT PAINT CURB RAMP OR RAMP WINGS. PLACE 4" WHITE MONO-DIRECTIONAL TYPE I REFLECTORS ON TOP OF CURB, IN ADVANCE OF THE CURB RAMP. POSITION REFLECTORS AT 2' INCREMENTS OFFSET FROM THE CURB LINE PARALLEL TO THE PATH OF APPROACHING TRAFFIC.
- 5. DESIGN FOR DRAINAGE TO CATCH BASIN.

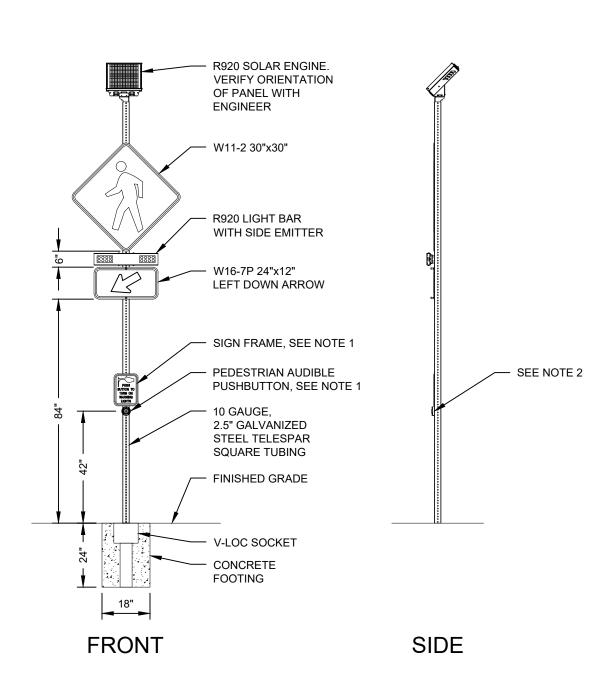


CURB EXTENSIONS AND CORNER RADII

REVISED: VALID: 09/2020 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

DWG NO.



- 1. INSTALL 'PUSHBUTTON' AND 'SIGN FRAME' ON SIDE OF POLE NEAREST TO CORRESPONDING CURB RAMP. ORIENT PUSHBUTTON TACTILE ARROW AND SIGN TOWARD THE CORRESPONDING CROSSING.
- 2. INSTALL 'BULLDOG' STYLE PEDESTRIAN PUSHBUTTON WHEN POLE IS LOCATED AT BACK OF SIDEWALK.

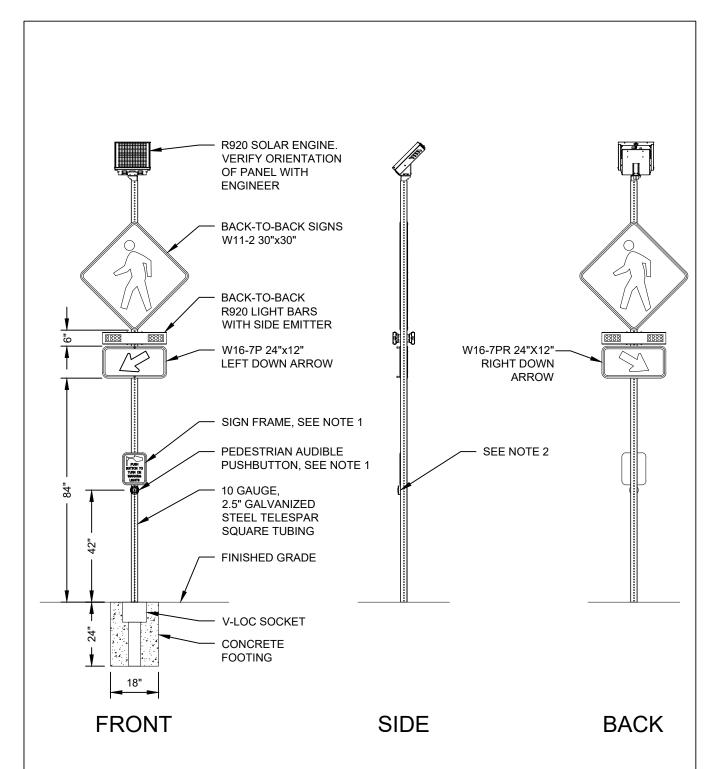


SINGLE SIDED (SOLAR) RECTANGULAR RAPID FLASHING BEACON ASSEMBLY

REVISED: 09/2020 VALID: 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

DWG NO.



- 1. INSTALL 'PUSHBUTTON' AND 'SIGN FRAME' ON SIDE OF POLE NEAREST TO CORRESPONDING CURB RAMP. ORIENT PUSHBUTTON TACTILE ARROW AND SIGN TOWARD THE CORRESPONDING CROSSING.
- 2. INSTALL 'BULLDOG' STYLE PEDESTRIAN PUSHBUTTON WHEN POLE IS LOCATED AT BACK OF SIDEWALK.

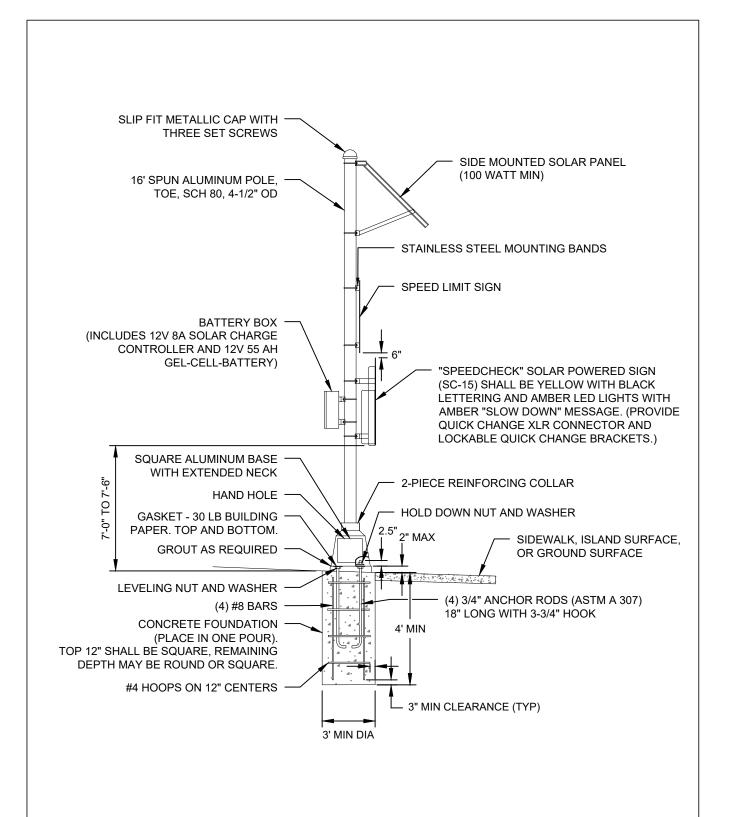


DUAL SIDED (SOLAR) RECTANGULAR RAPID FLASHING BEACON ASSEMBLY

REVISED: VALID: 09/2020 10/2020 SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

DWG NO.





SOLAR VEHICLE SPEED SIGN PEDESTAL

REVISED: 09/2020 VALID: 10/2020

SCALE: NOT TO SCALE

DRAWN: K. PAULSEN APPROVED: J. FUCHS

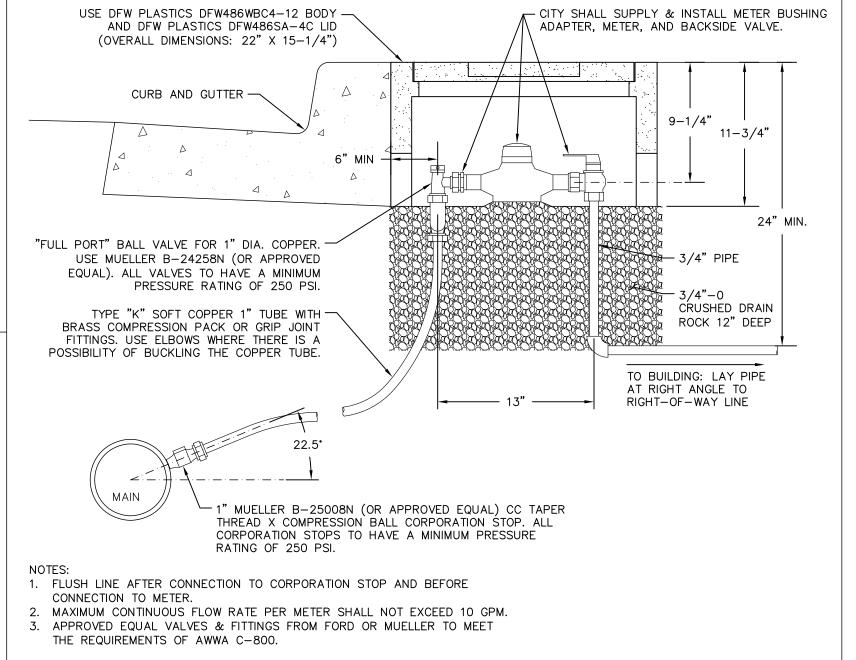
DWG NO.



WATER SERVICE /8" X 3/4" METER

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