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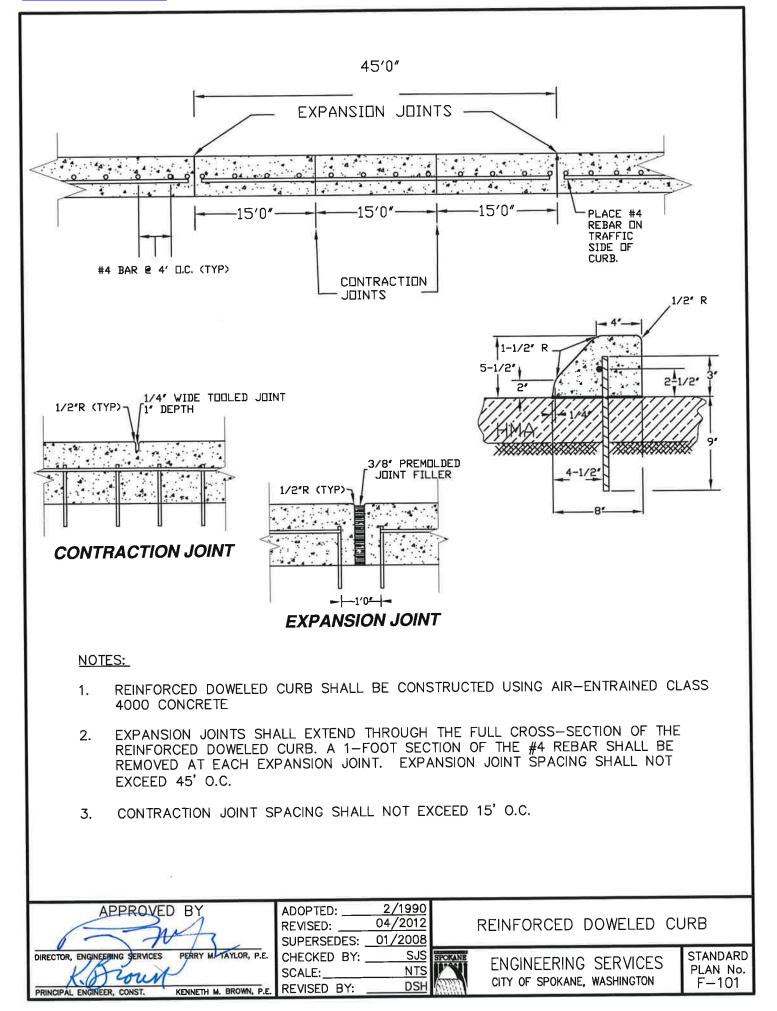
# **CITY OF SPOKANE STANDARD PLANS – SECTION F**

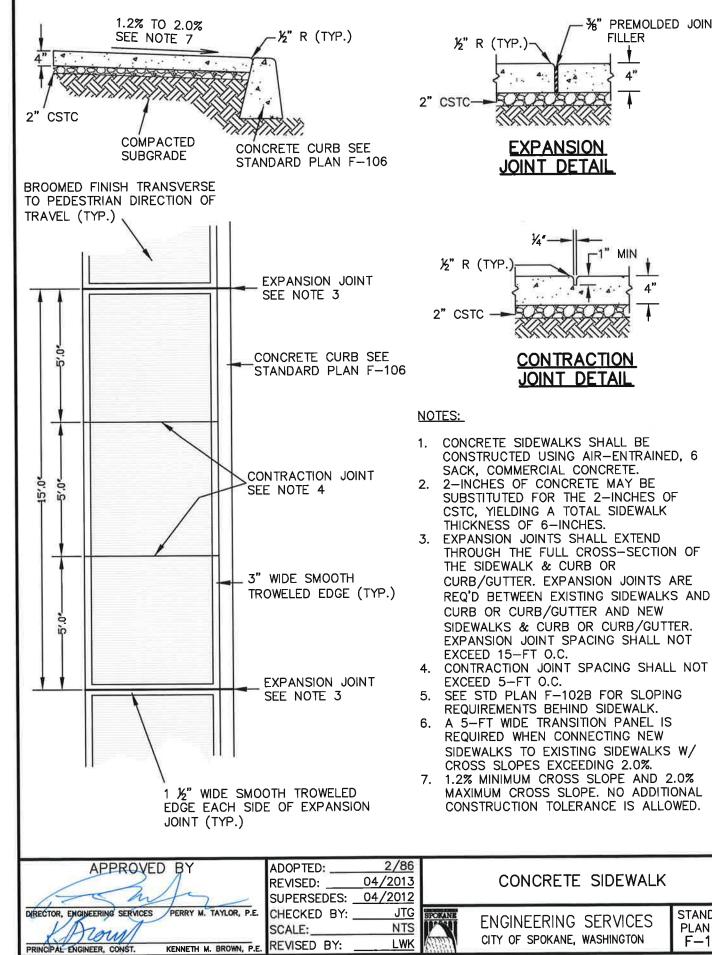
## X-### = Revised Standard Plan

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

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F-102B	Concrete Sidewalk Sections	
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F-107	Tree Well Blockout for 4' x 8' Metal Grate	4/18
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CONCRETE SIDEWALK

3%" PREMOLDED JOINT

FILLER

4"

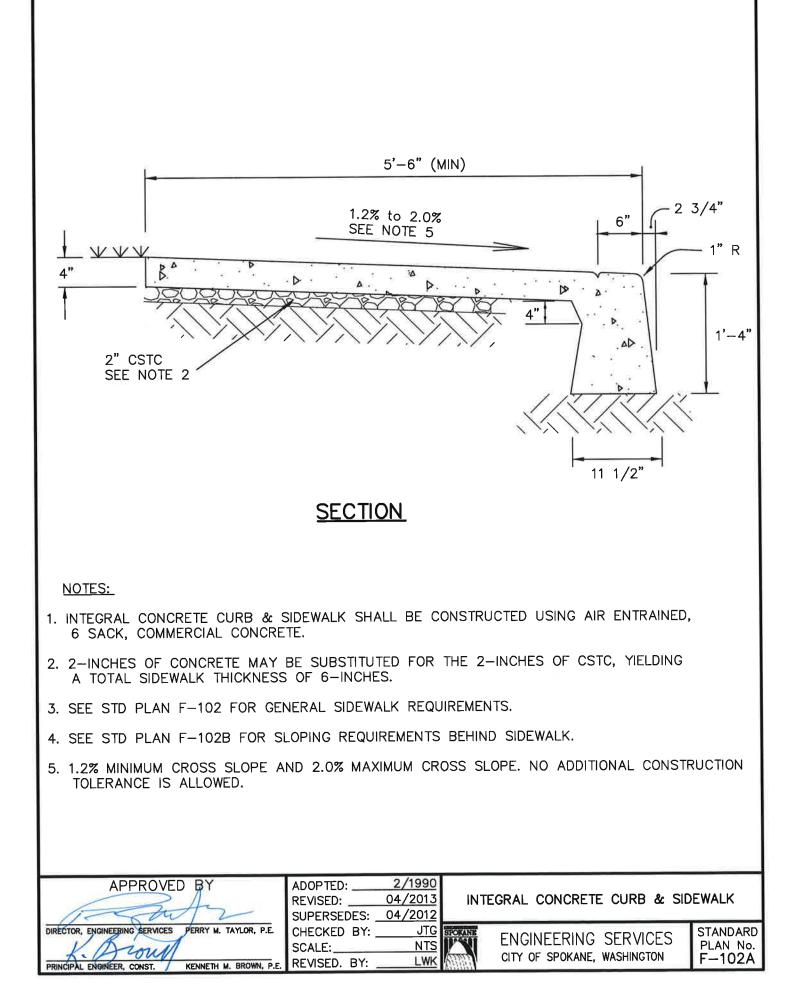
-1" MIN

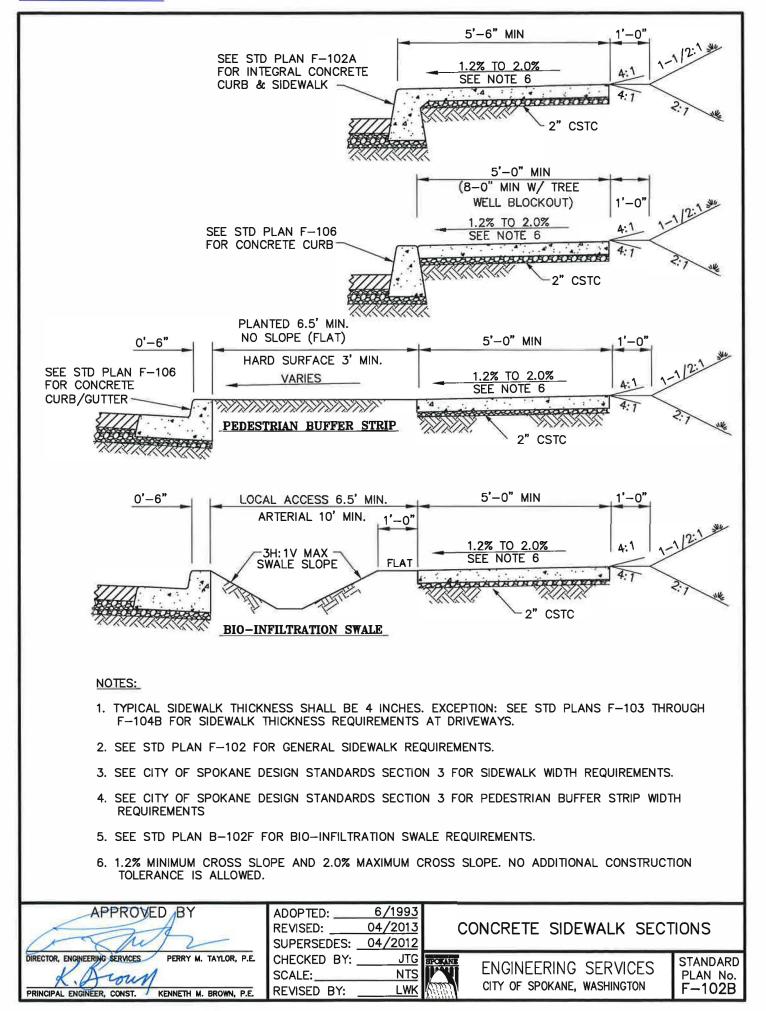
CONTRACTION

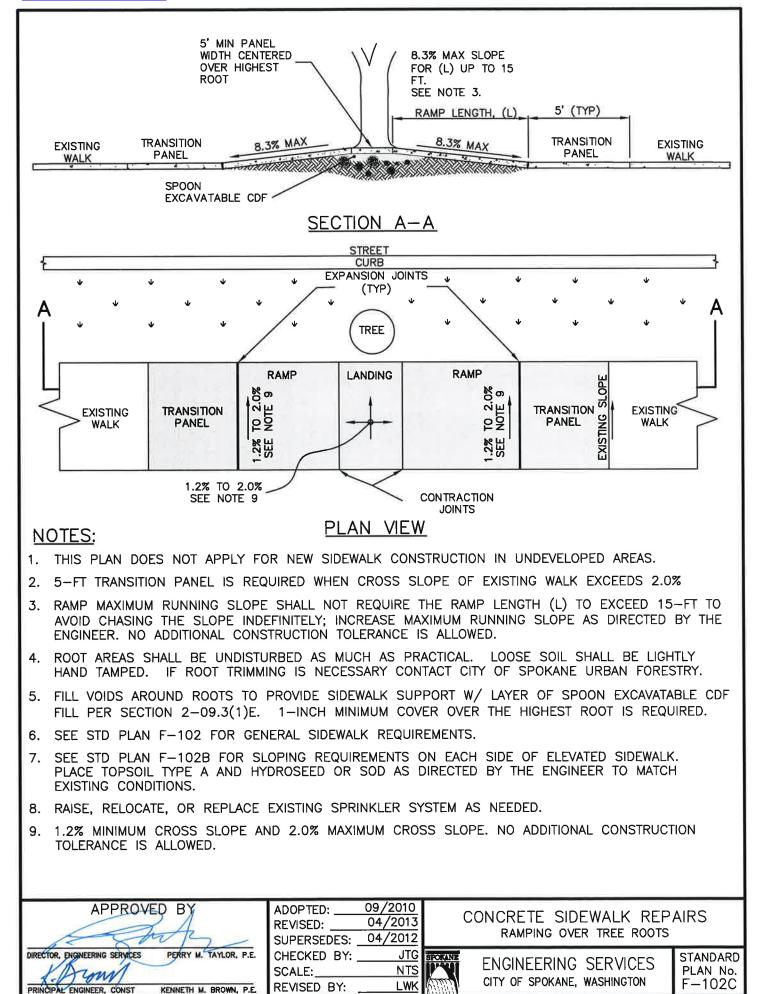
JOINT DETAIL

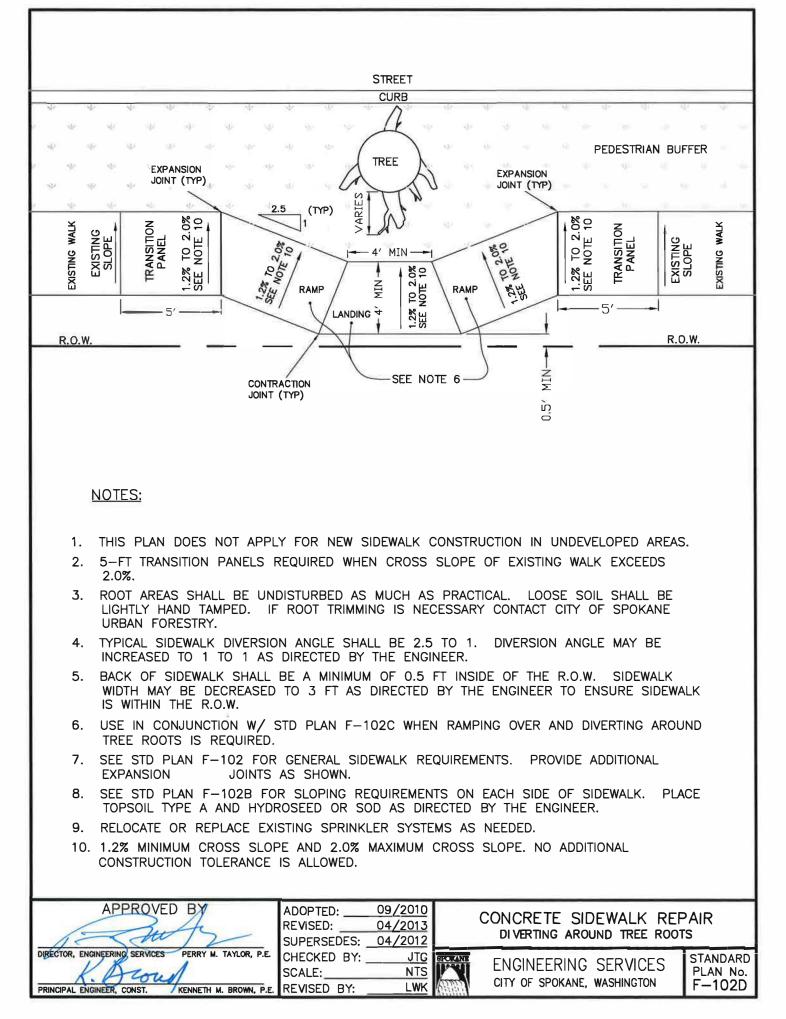
STANDARD PLAN No. F-102



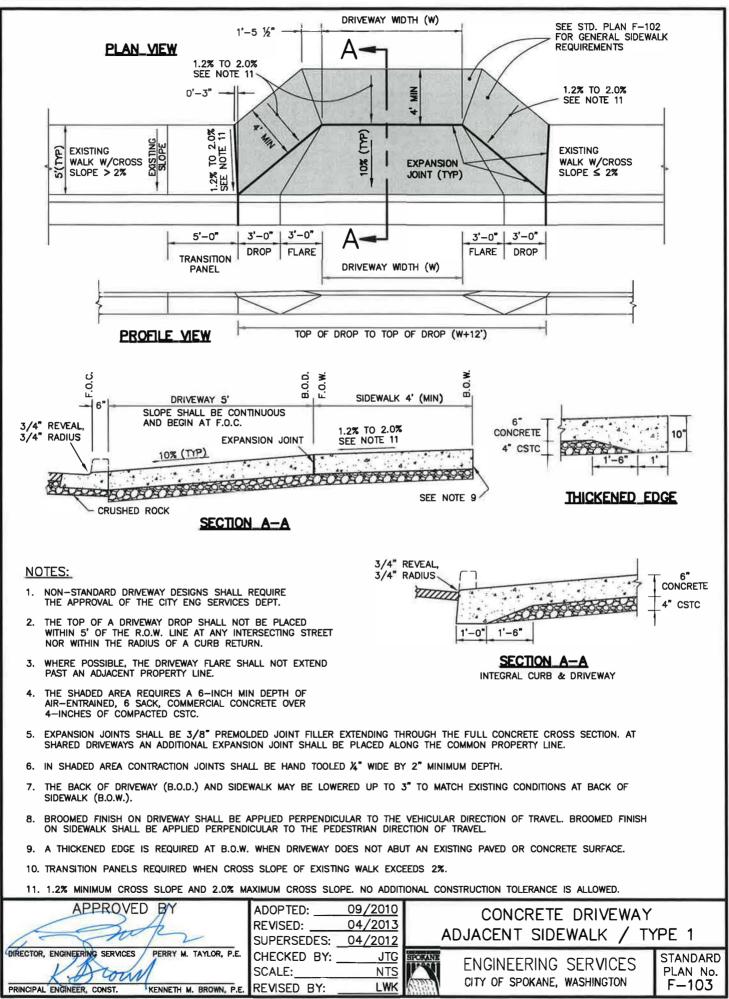


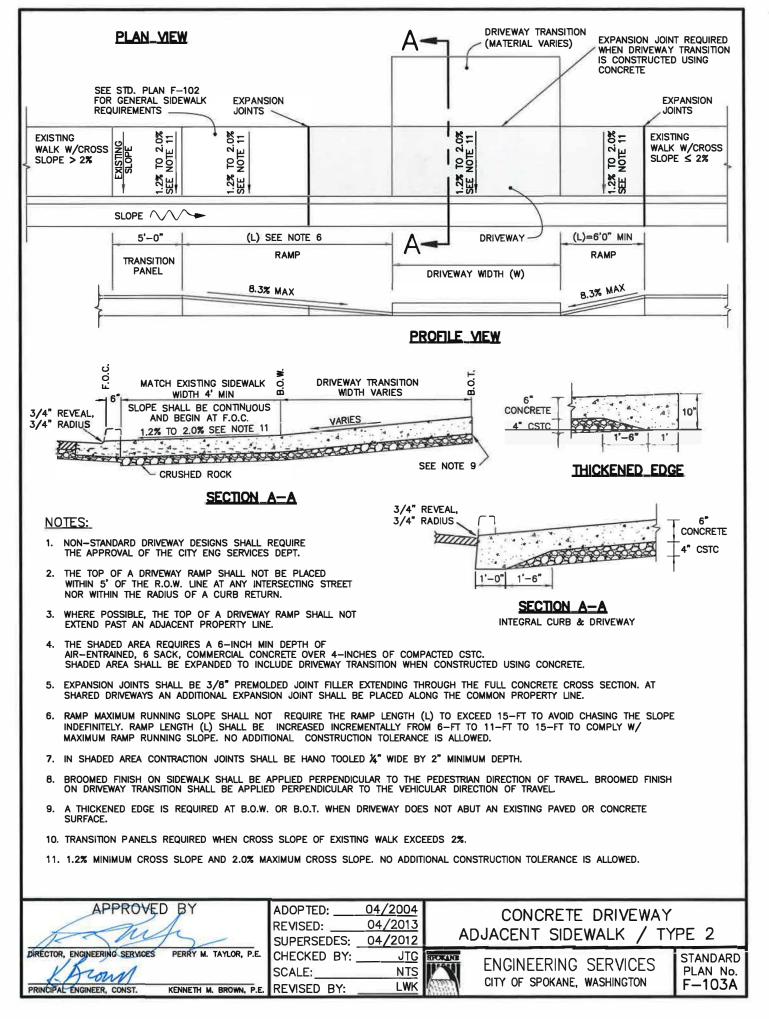




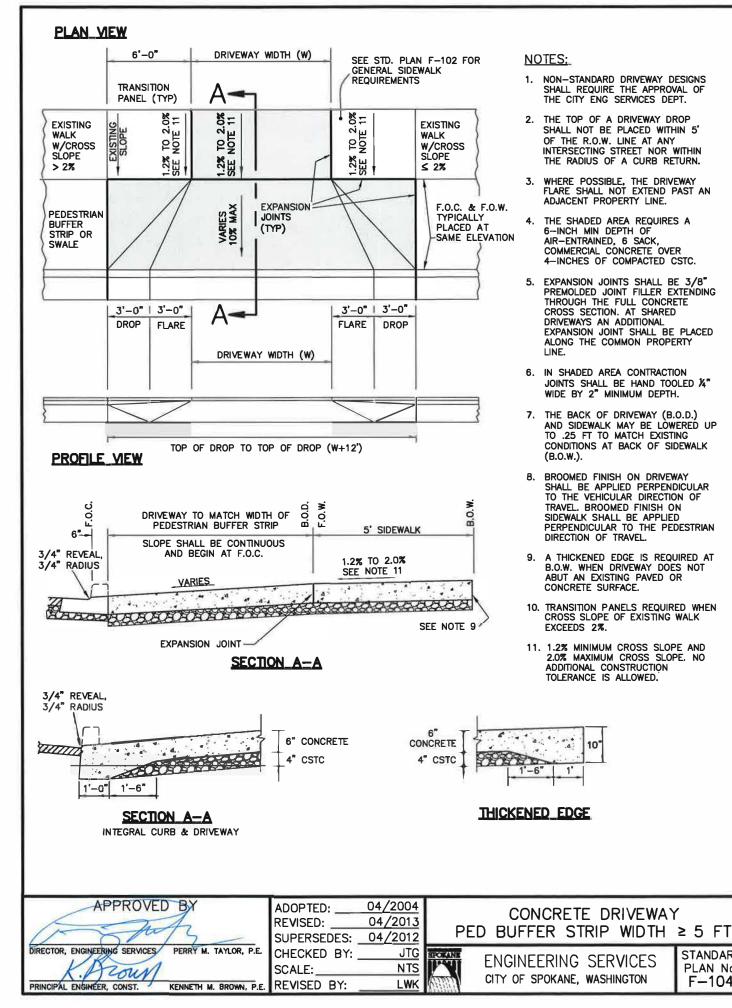


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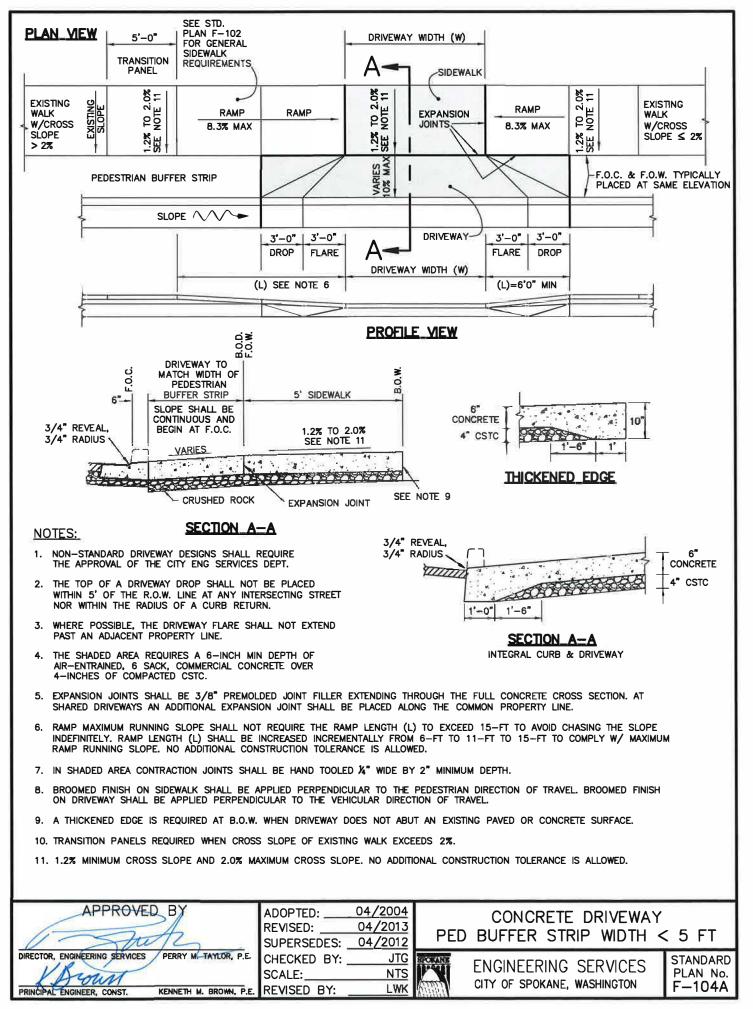


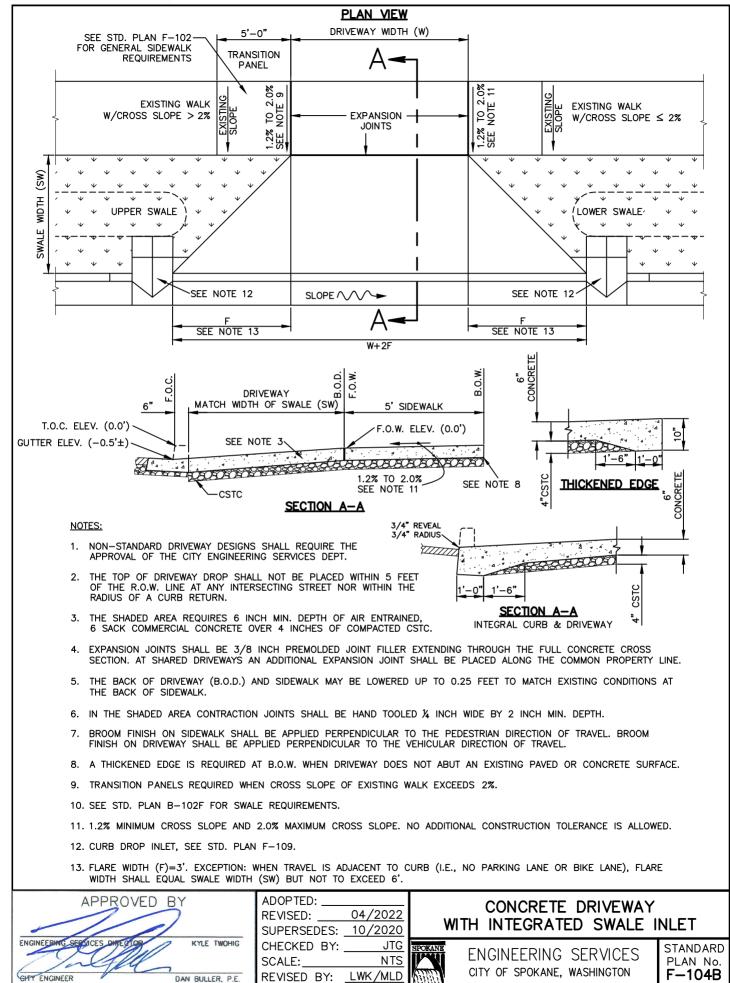


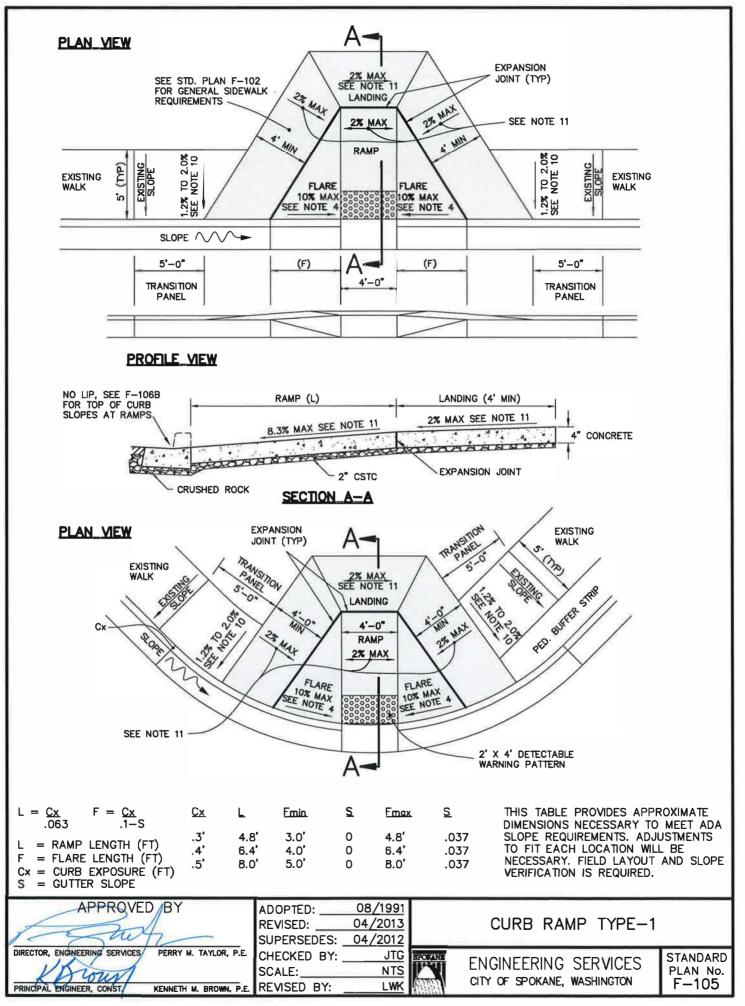
FO	PLAN_M E STD. PLAN F- R GENERAL SID QUIREMENTS -	EXPANSION	<b>`</b>		A-		1.2% TO 2 SEE NOTE			EXPANSIO JOINTS	N
EXISTING WALK W/CROSS SLOPE > 275	EXISTING SLOPE 1.2% TO 2.0% SEE NOTE 11	RAMP 8.3% MAX	RAMP	-		10% (TYP)		RAM 8.3%	MP MAX	1.2% TO 2.0% SEE NOTE 11	EXISTING WALK W/CROSS SLOPE
-			1								
	5'-0" TRANSITION PANEL	(L) SEE NO 		3'-0" FLARE		DF EWAY WI	RIVEWAY	3'-0" FLARE (L) =6'( 8.3%	DROP	5'-0" TRANSITION PANEL	
	1			-				1	/		<b> →</b>
					PRO	FILE_Y	<u>AEW</u>				1
	REVEAL, RADIUS	6 DRIVEWAY 6 2' MIN SLOPE SHALL BE CONTINUOUS AND BEGIN AT F.O.C. 107 (DP) CRUSHED ROCK SECTION A	4' 1.27 SEE 0508080	WALK MIN 5 TO 2.09 NOTE 11	-	B.O.W.	6" CONCRETE 4" CSTC		1'-6" CKENE	1 10"	
NOTES	-				7 /4"					ı	
THE 2. THE WITH NOR 3. WHEF	APPROVAL OF TOP OF A DRIN IN 5' OF THE I WITHIN THE RA RE POSSIBLE, T	VEWAY DESIGNS SHALL RE THE CITY ENG SERVICES I (EWAY RAMP SHALL NOT E R.O.W. LINE AT ANY INTER IDIUS OF A CURB RETURN THE TOP OF A DRIVEWAY I	DEPT. BE PLACED SECTING S N.	TREET		REVEAL, RADIUS	1	-6	000		6" CONCRETE 4" CSTC
4. THE AIR—	SHADED AREA	DJACENT PROPERTY LINE. REQUIRES A 6-INCH MIN SACK, COMMERCIAL CONCF PACTED CSTC.						ECTION_ RAL CURB	500 D.000	WAY	
5. EXPA	NSION JOINTS S	SHALL BE 3/8" PREMOLD AN ADDITIONAL EXPANSIO	ed joint N joint s	FILLER EX	TENDING TI	ROUGH	THE FULL CON	NCRETE CR	oss sec	TION. AT	
6. RAMF	P MAXIMUM RUN FINITELY. RAMP	INING SLOPE SHALL NOT LENGTH (L) SHALL BE IN PE. NO ADDITIONAL CONS	REQUIRE 1	THE RAMP	P LENGTH (I NTALLY FROI	.) TO EX	CEED 15-FT 1	to avoid c	HASING	The Slope W/ Maximum	
		ONTRACTION JOINTS SHALL									
		N SIDEWALK SHALL BE AP BE APPLIED PERPENDICU						N OF TRAV	EL BROO	MED FINISH	
		IS REQUIRED AT B.O.W.									
SIDE	WALK DOES NO	REQUIRED WHEN CROSS T MATCH THE THE WIDTH SS SLOPE AND 2.0% MAX	OF THE IN	IPROVEM	ENTS.						
/	APPROVE		ADOPTED REVISED:		04/2004					IVEWAY	
DIRECTOR, ENG	NEERING SERVICES	PERRY M. TAYLOR, P.E.	SUPERSE CHECKEE SCALE: REVISED	DES: ) BY:	04/2012	SPORANE	ENGIN	NT SID IEERIN( SPOKANE	G SER	VICES	PE 3 STANDARD PLAN No. F-103B



STANDARD PLAN No. F-104

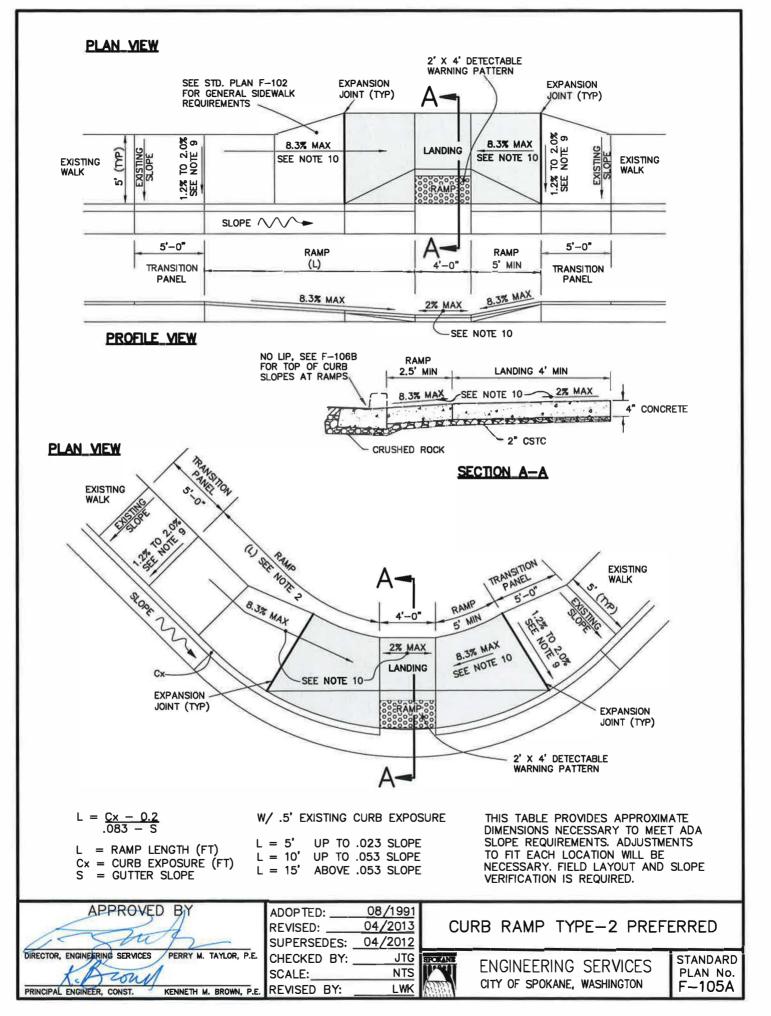






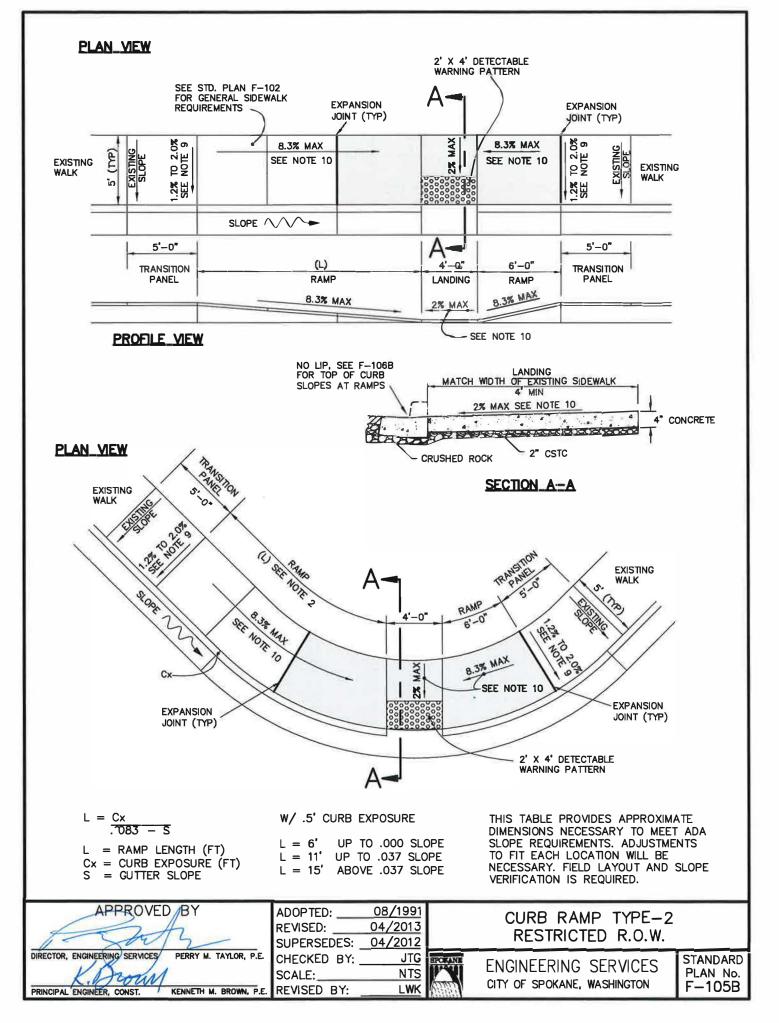
- 1. CURB RAMPS SHALL BE CONSTRUCTED USING AIR-ENTRAINED 6-SACK COMMERCIAL CONCRETE.
- 2. MAXIMUM RAMP RUNNING SLOPE SHALL BE 8.3%.
- 3. MAXIMUM CROSS SLOPE AND RUNNING SLOPE ON LANDING SHALL BE 2%.
- MAXIMUM FLARE SLOPE SHALL BE 10% MEASURED PARALLEL TO THE CURB, HOWEVER FLARE LENGTH (F) IS NOT REQUIRED TO EXCEED RAMP LENGTH (L).
- 5. BOTH FLARES SHALL BE THE SAME LENGTH FOR RAMP SYMMETRY.
- 6. DO NOT PLACE DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS OR ON ANY PART OF LANDING.
- 7. SEE CITY OF SPOKANE SPECIFICATIONS FOR DETECTABLE WARNING SURFACE PRODUCT & COLOR REQUIREMENTS.
- 8. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING SIDEWALK EXCEEDS 2%.
- 9. SEE STANDARD PLANS F-102, F-102A, F-106, F-106C, & G-107 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- 10. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 11. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

APPROVED BY	ADOPTED: 08/1991		
Turk	REVISED: 04/2013	F-105 NOTES	
1 Smpt	SUPERSEDES: 04/2012		
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:JTG	ENGINEERING SERVICES	STANDARD
KAroun	SCALE: NTS		PLAN No.
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	REVISED BY: LWK	CITY OF SPOKANE, WASHINGTON	F-105



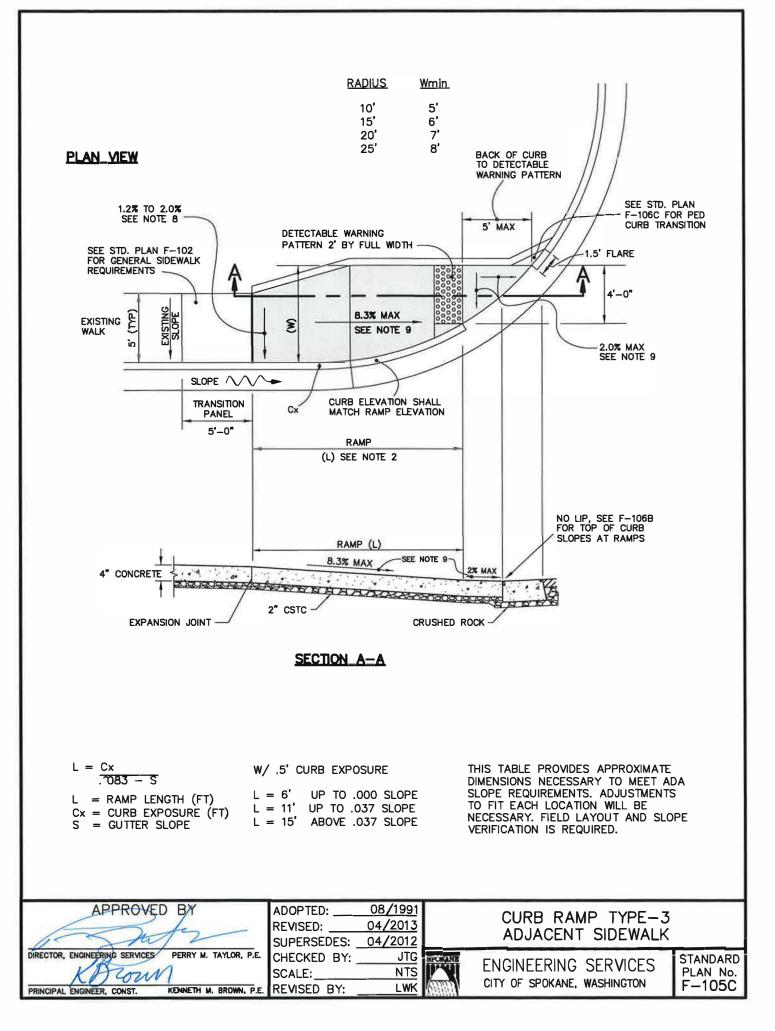
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- 2. MINIMUM RAMP LENGTH (L) IS 5 FEET. MAXIMUM RUNNING SLOPE IS 8.3%. THE RAMP LENGTH SHALL BE INCREASED INCREMENTALLY FROM 5 FT. TO 10 FT. TO 15 FT. AS NEEDED TO ACHIEVE A SLOPE OF 8.3% OR LESS. IF THE ADJACENT ROADWAY GRADE IS SUCH THAT THE CURB RAMP SLOPE CANNOT BE ACHIEVED IN 15 FEET, THE CURB RAMP LENGTH MAY BE LIMITED TO 15 FT.; HOWEVER, THIS REQUIRES A DESIGN DEVIATION APPROVAL BY THE CITY ENGINEER.
- 3. MAXIMUM CROSS SLOPE AND RUNNING SLOPE ON LANDING SHALL BE 2%.
- 4. JOINTS FOR RAMPS AND LANDINGS SHALL FORM RECTANGLES. ALL OTHER JOINTS LOCATED BETWEEN CURB RETURNS SHALL BE ORIENTED RADIALLY.
- 5. DO NOT PLACE DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS OR ON ANY PART OF LANDING.
- 6. SEE CITY OF SPOKANE SPECIFICATIONS FOR DETECTABLE WARNING SURFACE PRODUCT & COLOR REQUIREMENTS.
- 7. TRANSITION PANELS REQUIRED WHEN EXISTING CROSS SLOPE OF EXISTING SIDEWALK EXCEEDS 2% OR WHEN THE WIDTH OF A EXISTING SIDEWALK DOES NOT MATCH THE WIDTH OF THE IMPROVEMENTS.
- 8. SEE STANDARD PLANS F-102, F-102A, F-106, F-106B, F-106C, & G-107 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- 9. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
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APPROVED BY	ADOPTED:0	8/1991		
The	REVISED: 04	4/2013	F-105A NOTES	
0 - Jun	SUPERSEDES: 04	4/2012		
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:	JTG SPOKANE	ENGINEERING SERVICES	STANDARD
V. Arough	SCALE:	NTS		PLAN No.
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	REVISED BY:	LWK	CITY OF SPOKANE, WASHINGTON	F-105A



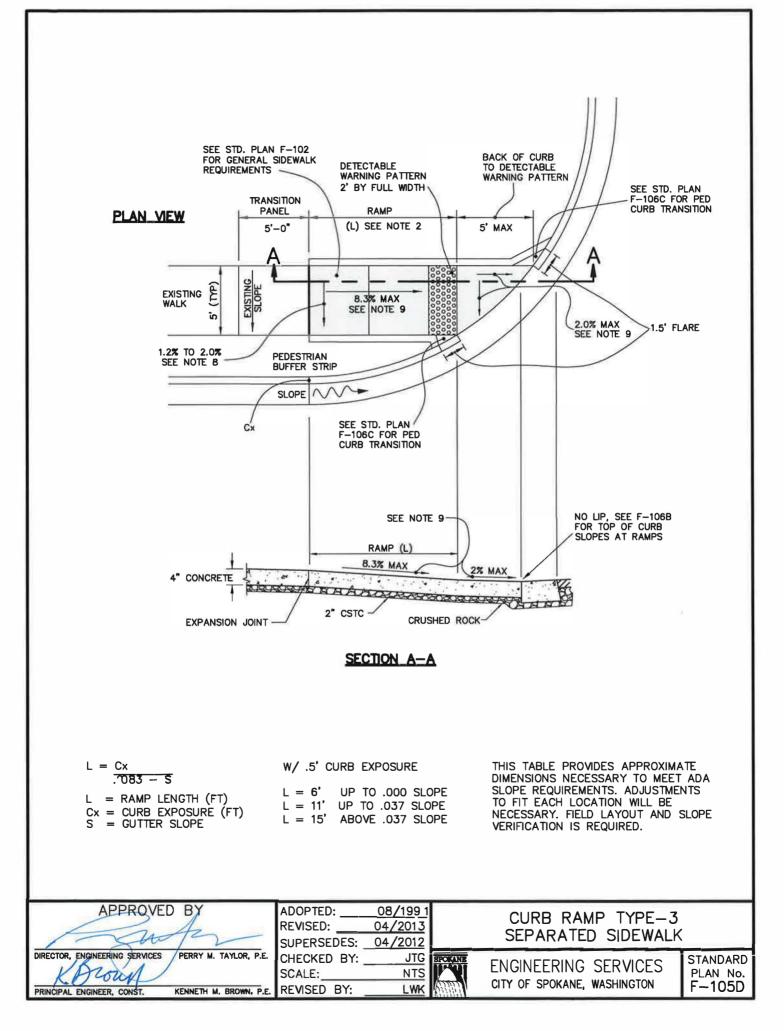
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- 3. MAXIMUM SLOPE ON LANDING SHALL BE 2% IN ANY DIRECTION.
- 4. JOINTS FOR RAMPS AND LANDINGS SHALL FORM RECTANGLES. ALL OTHER JOINTS LOCATED BETWEEN CURB RETURNS SHALL BE ORIENTED RADIALLY.
- 5. DO NOT PLACE DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS OR ON ANY PART OF LANDING.
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APPROVED BY	ADOP TED: 08/1991 REVISED: 04/2013		
	SUPERSEDES: 04/2012		
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:JTG	ENGINEERING SERVICES	STANDARD
KDrown	SCALE: NTS		PLAN No.
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	REVISED BY:LWK	CITY OF SPOKANE, WASHINGTON	F-105B



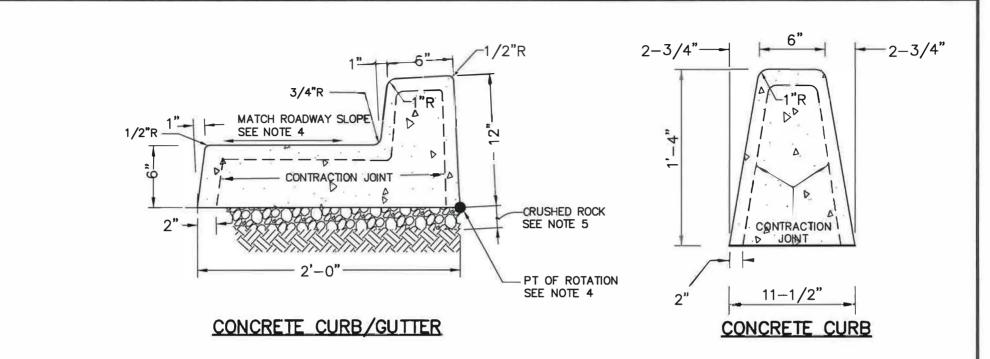
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- 3. MAXIMUM SLOPE AT BASE OF RAMP SHALL BE 2% IN ANY DIRECTION.
- 4. DO NOT PLACE DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS OR ON ANY PART OF LANDING.
- 5. SEE CITY OF SPOKANE SPECIFICATIONS FOR DETECTABLE WARNING SURFACE PRODUCT & COLOR REQUIREMENTS.
- 6. TRANSITION PANELS ARE REQUIRED WHEN CROSS SLOPE OF EXISTING SIDEWALK EXCEEDS 2%.
- 7. SEE STANDARD PLANS F-102, F-102A, F-106, F-106B, F-106C, & G-107 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- 8. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 9. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

APPROVED BY	ADOPTED: <u>08/1991</u> REVISED: <u>04/2013</u>	F-105C NOTES	
11 Start	SUPERSEDES: 04/2012		
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHLORED DI.	ENGINEERING SERVICES	STANDARD
KACOUN	SCALE: <u>NIS</u>	CITY OF SPOKANE. WASHINGTON	PLAN No.
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E	REVISED BY: LWK	CITE OF SPORANE, WASHINGTON	F-105C



- 1. CURB RAMPS SHALL BE CONSTRUCTED USING AIR-ENTRAINED 6-SACK COMMERCIAL CONCRETE.
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- 7. SEE STANDARD PLANS F-102, F-102A, F-106, F-106B, F-106C, & G-107 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
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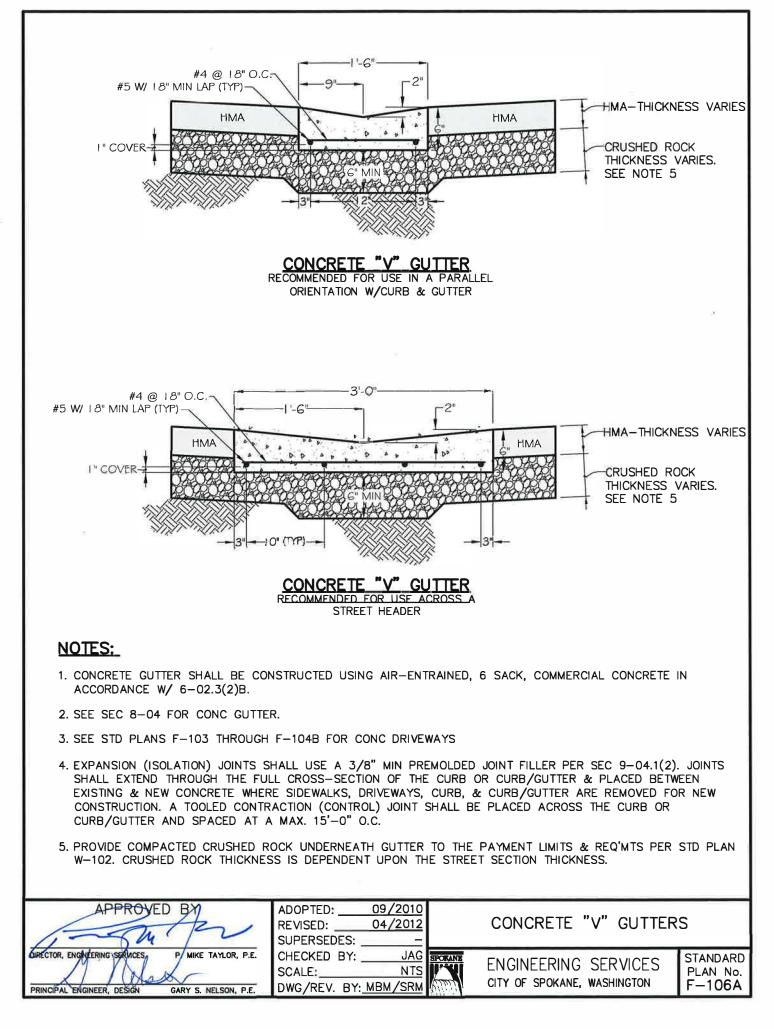
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1 - Show	SUPERSEDES: 0	4/2012		
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:	JTG SPOKANE	ENGINEERING SERVICES	STANDARD
KALOWAT	SCALE:	NTS		PLAN No.
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	REVISED BY:	LWK AND	CITY OF SPOKANE, WASHINGTON	F-105D

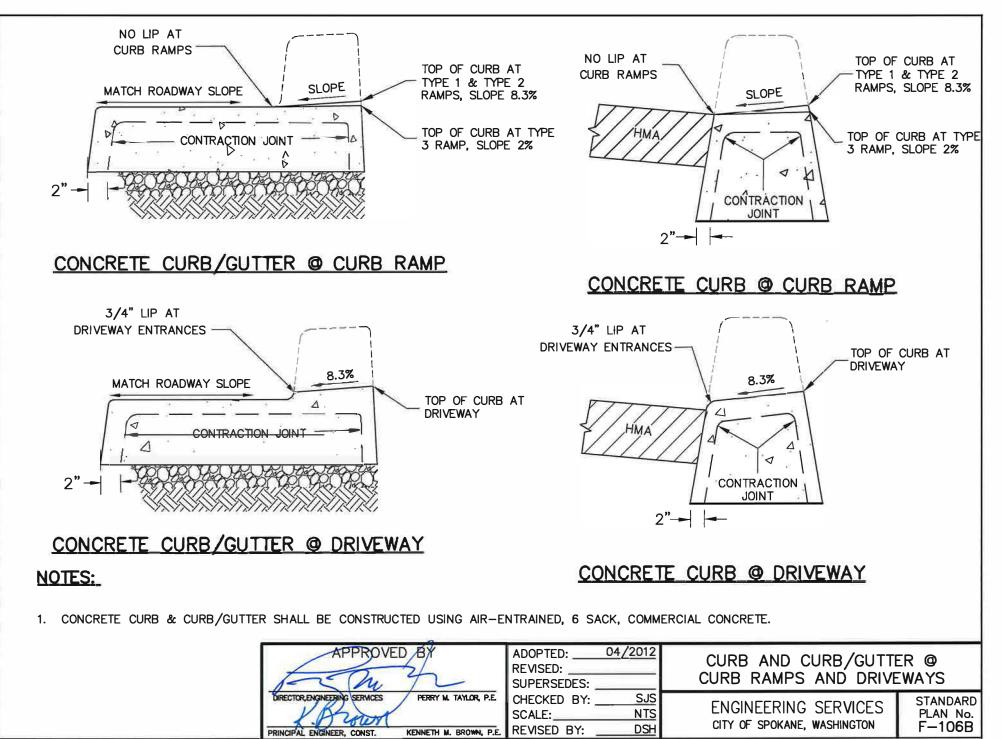


### NOTES:

- 1. CONCRETE CURB & CURB/GUTTER SHALL BE CONSTRUCTED USING AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE.
- 2. EXPANSION JOINTS SHALL USE A 3/8" PREMOLDED JOINT FILLER. EXPANSION JOINTS SHALL EXTEND THROUGH THE FULL CROSS-SECTION OF THE CURB OR CURB/GUTTER & PLACED BETWEEN EXISTING & NEW CONCRETE WHERE SIDEWALKS, DRIVEWAYS, CURB, & CURB/GUTTER ARE REMOVED FOR NEW CONSTRUCTION.
- 3. CONTRACTION JOINTS SHALL BE HAND TOOLED 1/4" WIDE BY 2" MINIMUM DEPTH SPACED AT MAX. 15'-0" O.C.
- 4. THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ROADWAY. THEREFORE, THE CURB/GUTTER SHALL BE ROTATED ACCORDINGLY.
- 5. PROVIDE COMPACTED CRUSHED ROCK UNDERNEATH CURB/GUTTER TO THE LIMITS SHOWN ON STD PLAN W-102.
- 6. SEE STD PLAN F-106B FOR CURB AND CURB/GUTTER DETAILS AT CURB RAMPS AND DRIVEWAYS.

APPROVED BY	ADOPTED:2/1990	CONCRETE CURB	
15 mb	REVISED: <u>04/2012</u> SUPERSEDES: <u>01/2009</u>	AND CURB / GUTTI	ER
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:SJS	ENGINEERING SERVICES	STANDARD
KArow	SCALE:NTS	CITY OF SPOKANE, WASHINGTON	PLAN No. F-106
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	REVISED BY: DSH		r=100





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