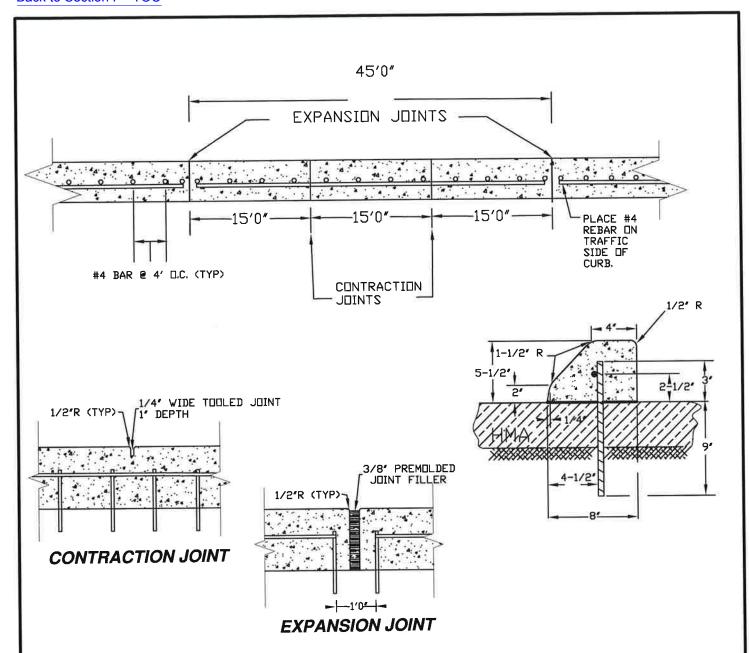
TABLE OF CONTENTS

CITY OF SPOKANE STANDARD PLANS – SECTION F

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

Back to Main TOC

<u>Pian No.</u>	Plan Title	Current Plan Date
F-101	Reinforced Doweled Curb	4/12
F-102	Concrete Sidewalk	4/13
F-102A	Integral Concrete Curb & Sidewalk	4/13
F-102B	Concrete Sidewalk Sections	
F-102C	Concrete Sidewalk Repairs - Ramping Over Tree Roots	4/13
F-102D	Concrete Sidewalk Repairs - Diverting Around Tree Roots	4/13
F-103	Concrete Driveway - Adjacent Sidewalk / Type 1	4/13
F-103A	Concrete Driveway – Adjacent Sidewalk / Type 2	4/13
F-103B	Concrete Driveway – Adjacent Sidewalk / Type 3	4/13
F-104	Concrete Driveway – PED Buffer Strip Width > 5 Ft	4/13
F-104A	Concrete Driveway – PED Buffer Strip Width < 5 Ft	4/13
F-104B	Concrete Driveway w/ Integrated Swale Inlet	4/22
F-105	Curb Ramp Type-1 (2 Sheets)	
F-105A	Curb Ramp Type-2, Preferred (2 Sheets)	
F-105B	Curb Ramp Type-2, Restricted ROW (2 Sheets)	4/13
F-105C	Curb Ramp Type-3, Adjacent Sidewalk (2 Sheets)	4/13
F-105D	Curb Ramp Type-3, Separated Sidewalk (2 Sheets)	4/13
F-106	Concrete Curb and Curb / Gutter	4/12
F-106A	Concrete "V" Gutters	4/12
F-106B	Curb and Curb/Gutter @ Curb Ramps and Driveways	4/12
F-106C	Cement Concrete PED Curb	4/13
F-106D	Curb/Gutter	3/18
F-107	Tree Well Blockout for 4' x 8' Metal Grate	
F-107A	Existing Sidewalk Retrofit; Options for Street Tree Installation	9/10
F-107B	Marking Irrigation Sleeves	
F-108	Traffic Island	4/12
F-108A	Traffic Island Pocket and Nosing Parameters	3/94
F-109	Curb Drop Inlet	
F-110	Swale Drain Pad	4/22
F-111	Vaulted Sidewalk Elimination w/ CDF Backfill	9/10



PRINCIPAL ENGINEER, CONST.

- 1. REINFORCED DOWELED CURB SHALL BE CONSTRUCTED USING AIR-ENTRAINED CLASS 4000 CONCRETE
- 2. EXPANSION JOINTS SHALL EXTEND THROUGH THE FULL CROSS—SECTION OF THE REINFORCED DOWELED CURB. A 1—FOOT SECTION OF THE #4 REBAR SHALL BE REMOVED AT EACH EXPANSION JOINT. EXPANSION JOINT SPACING SHALL NOT EXCEED 45' O.C.
- 3. CONTRACTION JOINT SPACING SHALL NOT EXCEED 15' O.C.

APPROVED BY	ADOP IEL
	REVISED
1 THE	SUPERS
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKE
V Dronger	SCALE:_
// \(//) = 0 \(\dots \)	

KENNETH M. BROWN, P.E.

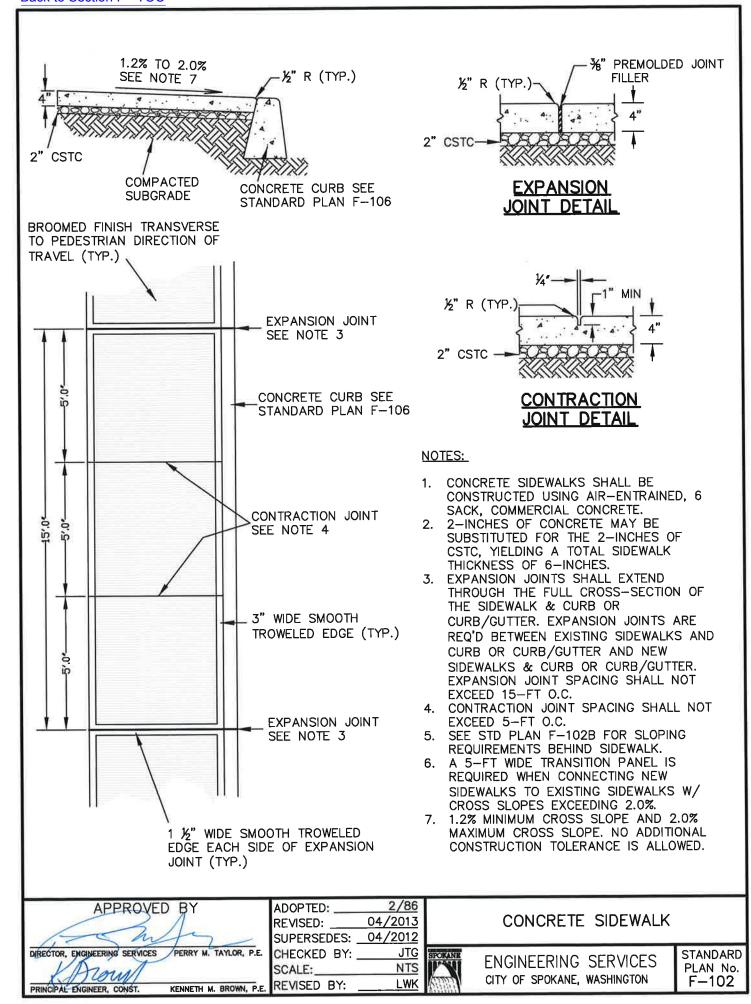
ADDDOVED DY

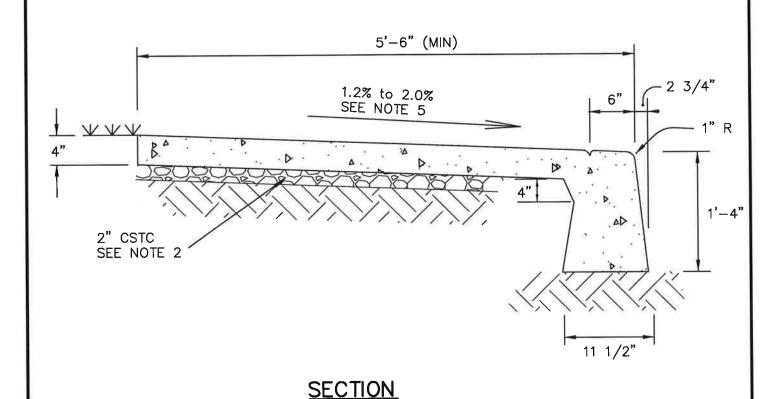
ADOPTED:	2/1990
REVISED:	04/2012
SUPERSEDES:	01/2008
CHECKED BY:	SJS
SCALE:	NTS
REVISED BY:	DSH

REINFORCED DOWELED CURB

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-101





- 1. INTEGRAL CONCRETE CURB & SIDEWALK SHALL BE CONSTRUCTED USING AIR ENTRAINED, 6 SACK, COMMERCIAL CONCRETE.
- 2. 2-INCHES OF CONCRETE MAY BE SUBSTITUTED FOR THE 2-INCHES OF CSTC, YIELDING A TOTAL SIDEWALK THICKNESS OF 6-INCHES.
- 3. SEE STD PLAN F-102 FOR GENERAL SIDEWALK REQUIREMENTS.
- 4. SEE STD PLAN F-102B FOR SLOPING REQUIREMENTS BEHIND SIDEWALK.
- 5. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

1990 2013

2012 **JTG**

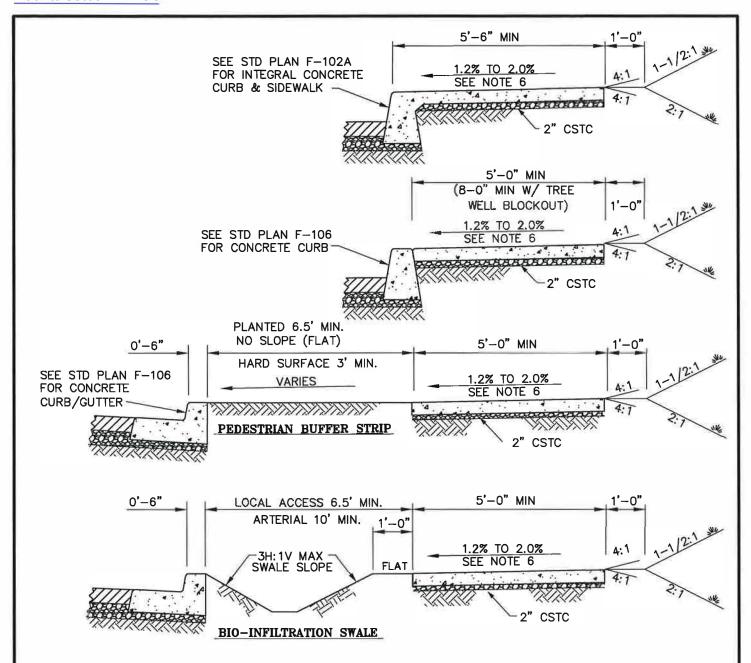
NTS

APPROVED BY	ADOPTED:	2/
	REVISED:	04/
1- July	SUPERSEDES:	04/
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:	
V Brough	SCALE:	
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	REVISED. BY:	

INTEGRAL CONCRETE CURB & SIDEWALK

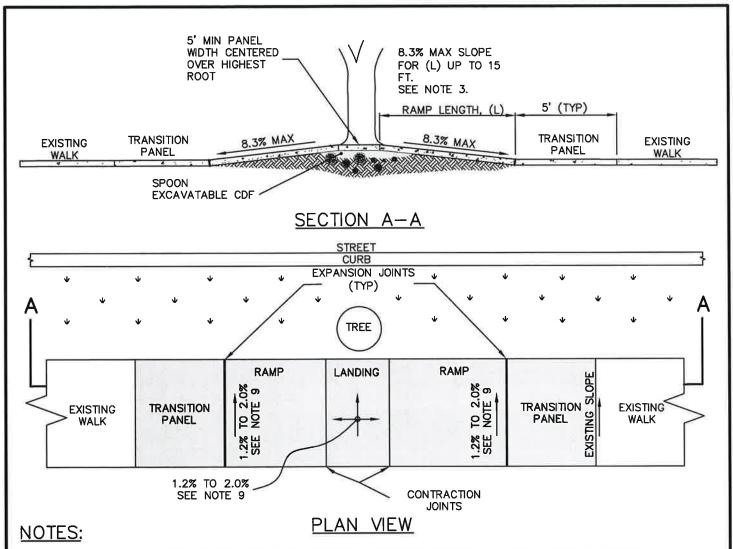


STANDARD PLAN No. F-102A



- 1. TYPICAL SIDEWALK THICKNESS SHALL BE 4 INCHES. EXCEPTION: SEE STD PLANS F-103 THROUGH F-104B FOR SIDEWALK THICKNESS REQUIREMENTS AT DRIVEWAYS.
- 2. SEE STD PLAN F-102 FOR GENERAL SIDEWALK REQUIREMENTS.
- 3. SEE CITY OF SPOKANE DESIGN STANDARDS SECTION 3 FOR SIDEWALK WIDTH REQUIREMENTS.
- 4. SEE CITY OF SPOKANE DESIGN STANDARDS SECTION 3 FOR PEDESTRIAN BUFFER STRIP WIDTH REQUIREMENTS
- SEE STD PLAN B-102F FOR BIO-INFILTRATION SWALE REQUIREMENTS.
- 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

APPROVED BY	ADOPTED: 6/1993 REVISED: 04/2013 SUPERSEDES: 04/2012	CONCRETE SIDEWALK SECTI	ONS
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	CHECKED BY: JTG SCALE: NTS REVISED BY: LWK	ENGINEERING SERVICES	STANDARD PLAN No. F-102B



- THIS PLAN DOES NOT APPLY FOR NEW SIDEWALK CONSTRUCTION IN UNDEVELOPED AREAS.
- 2. 5-FT TRANSITION PANEL IS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2.0%
- 3. RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH (L) TO EXCEED 15-FT TO AVOID CHASING THE SLOPE INDEFINITELY; INCREASE MAXIMUM RUNNING SLOPE AS DIRECTED BY THE ENGINEER. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 4. ROOT AREAS SHALL BE UNDISTURBED AS MUCH AS PRACTICAL. LOOSE SOIL SHALL BE LIGHTLY HAND TAMPED. IF ROOT TRIMMING IS NECESSARY CONTACT CITY OF SPOKANE URBAN FORESTRY.
- 5. FILL VOIDS AROUND ROOTS TO PROVIDE SIDEWALK SUPPORT W/ LAYER OF SPOON EXCAVATABLE CDF FILL PER SECTION 2-09.3(1)E. 1-INCH MINIMUM COVER OVER THE HIGHEST ROOT IS REQUIRED.
- 6. SEE STD PLAN F-102 FOR GENERAL SIDEWALK REQUIREMENTS.
- 7. SEE STD PLAN F-102B FOR SLOPING REQUIREMENTS ON EACH SIDE OF ELEVATED SIDEWALK. PLACE TOPSOIL TYPE A AND HYDROSEED OR SOD AS DIRECTED BY THE ENGINEER TO MATCH EXISTING CONDITIONS.
- 8. RAISE, RELOCATE, OR REPLACE EXISTING SPRINKLER SYSTEM AS NEEDED.
- 9. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

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

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

ADOPTED: 09/2010
REVISED: 04/2013
SUPERSEDES: 04/2012
CHECKED BY: JTG
SCALE: NTS

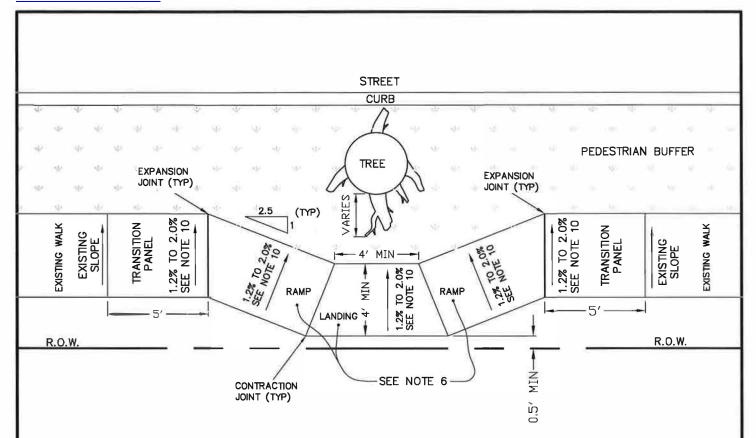
LWK

REVISED BY:

CONCRETE SIDEWALK REPAIRS RAMPING OVER TREE ROOTS



STANDARD PLAN No. F-102C



- 1. THIS PLAN DOES NOT APPLY FOR NEW SIDEWALK CONSTRUCTION IN UNDEVELOPED AREAS.
- 2. 5-FT TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2.0%.
- 3. ROOT AREAS SHALL BE UNDISTURBED AS MUCH AS PRACTICAL. LOOSE SOIL SHALL BE LIGHTLY HAND TAMPED. IF ROOT TRIMMING IS NECESSARY CONTACT CITY OF SPOKANE URBAN FORESTRY.
- 4. TYPICAL SIDEWALK DIVERSION ANGLE SHALL BE 2.5 TO 1. DIVERSION ANGLE MAY BE INCREASED TO 1 TO 1 AS DIRECTED BY THE ENGINEER.
- 5. BACK OF SIDEWALK SHALL BE A MINIMUM OF 0.5 FT INSIDE OF THE R.O.W. SIDEWALK WIDTH MAY BE DECREASED TO 3 FT AS DIRECTED BY THE ENGINEER TO ENSURE SIDEWALK IS WITHIN THE R.O.W.
- 6. USE IN CONJUNCTION W/ STD PLAN F-102C WHEN RAMPING OVER AND DIVERTING AROUND TREE ROOTS IS REQUIRED.
- 7. SEE STD PLAN F-102 FOR GENERAL SIDEWALK REQUIREMENTS. PROVIDE ADDITIONAL EXPANSION JOINTS AS SHOWN.
- 8. SEE STD PLAN F-102B FOR SLOPING REQUIREMENTS ON EACH SIDE OF SIDEWALK. PLACE TOPSOIL TYPE A AND HYDROSEED OR SOD AS DIRECTED BY THE ENGINEER.
- 9. RELOCATE OR REPLACE EXISTING SPRINKLER SYSTEMS AS NEEDED.
- 10. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

	4
1= 1	7/2
DIRECTOR, ENGINEERING SERVICES	PERRY M. TAYLOR, P.E.
K. Arou	
PRINCIPAL ENGINEER, CONST.	KENNETH M. BROWN, P.E.

APPROVED BY

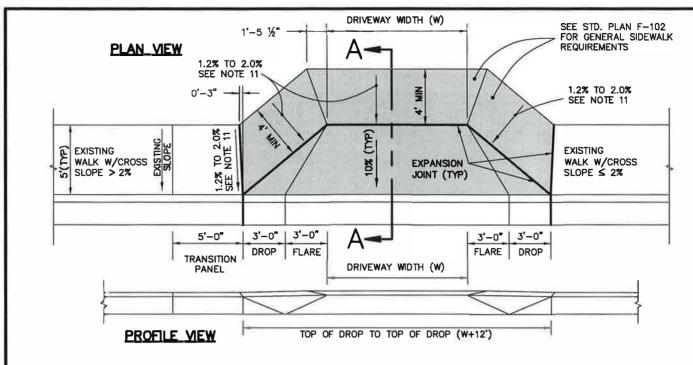
ADOPTED:	09/2010
REVISED:	04/2013
SUPERSEDES:	04/2012
CHECKED BY:	JTG
SCALE:	NTS
REVISED BY:	LWK

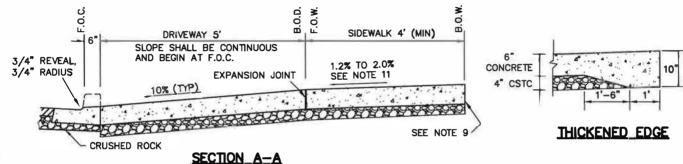
CONCRETE SIDEWALK REPAIR DIVERTING AROUND TREE ROOTS



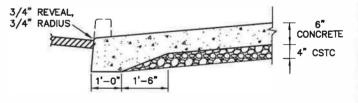
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-102D



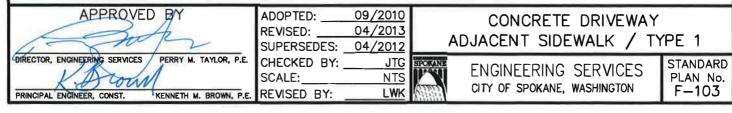


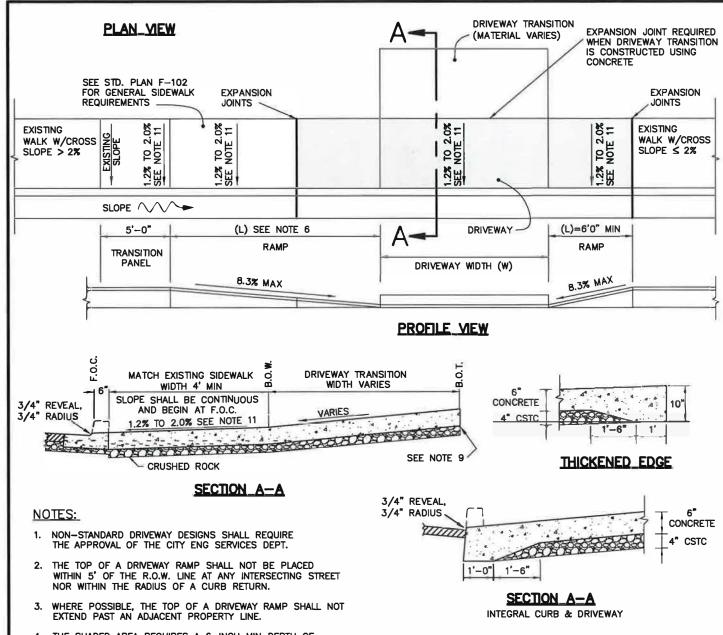
- NON-STANDARD DRIVEWAY DESIGNS SHALL REQUIRE THE APPROVAL OF THE CITY ENG SERVICES DEPT.
- THE TOP OF A DRIVEWAY DROP SHALL NOT BE PLACED WITHIN 5' OF THE R.O.W. LINE AT ANY INTERSECTING STREET NOR WITHIN THE RADIUS OF A CURB RETURN.
- WHERE POSSIBLE, THE DRIVEWAY FLARE SHALL NOT EXTEND PAST AN ADJACENT PROPERTY LINE.
- THE SHADED AREA REQUIRES A 6-INCH MIN DEPTH OF AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE OVER 4-INCHES OF COMPACTED CSTC.



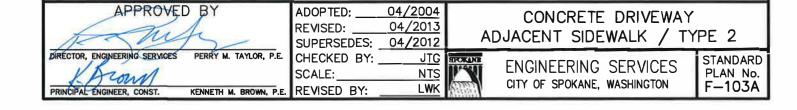
SECTION A-A
INTEGRAL CURB & DRIVEWAY

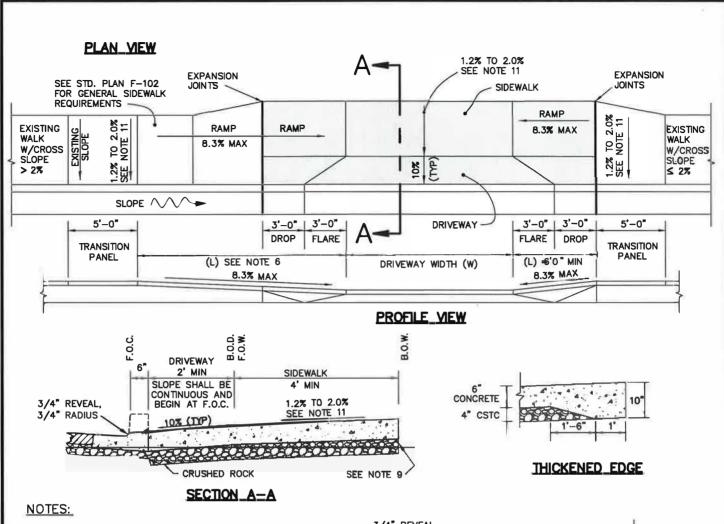
- 5. EXPANSION JOINTS SHALL BE 3/8" PREMOLDED JOINT FILLER EXTENDING THROUGH THE FULL CONCRETE CROSS SECTION. AT SHARED DRIVEWAYS AN ADDITIONAL EXPANSION JOINT SHALL BE PLACED ALONG THE COMMON PROPERTY LINE.
- 6. IN SHADED AREA CONTRACTION JOINTS SHALL BE HAND TOOLED X" WIDE BY 2" MINIMUM DEPTH.
- 7. THE BACK OF DRIVEWAY (B.O.D.) AND SIDEWALK MAY BE LOWERED UP TO 3" TO MATCH EXISTING CONDITIONS AT BACK OF SIDEWALK (B.O.W.).
- 8. BROOMED FINISH ON DRIVEWAY SHALL BE APPLIED PERPENDICULAR TO THE VEHICULAR DIRECTION OF TRAVEL. BROOMED FINISH ON SIDEWALK SHALL BE APPLIED PERPENDICULAR TO THE PEDESTRIAN DIRECTION OF TRAVEL.
- 9. A THICKENED EDGE IS REQUIRED AT B.O.W. WHEN DRIVEWAY DOES NOT ABUT AN EXISTING PAVED OR CONCRETE SURFACE.
- 10. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2%.
- 11. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.



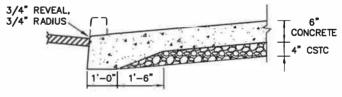


- 4. THE SHADED AREA REQUIRES A 6-INCH MIN DEPTH OF AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE OVER 4-INCHES OF COMPACTED CSTC. SHADED AREA SHALL BE EXPANDED TO INCLUDE DRIVEWAY TRANSITION WHEN CONSTRUCTED USING CONCRETE.
- 5. EXPANSION JOINTS SHALL BE 3/8" PREMOLDED JOINT FILLER EXTENDING THROUGH THE FULL CONCRETE CROSS SECTION. AT SHARED DRIVEWAYS AN ADDITIONAL EXPANSION JOINT SHALL BE PLACED ALONG THE COMMON PROPERTY LINE.
- 6. RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH (L) TO EXCEED 15-FT TO AVOID CHASING THE SLOPE INDEFINITELY. RAMP LENGTH (L) SHALL BE INCREASED INCREMENTALLY FROM 6-FT TO 11-FT TO 15-FT TO COMPLY W/ MAXIMUM RAMP RUNNING SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 7. IN SHADED AREA CONTRACTION JOINTS SHALL BE HAND TOOLED 14" WIDE BY 2" MINIMUM DEPTH.
- 8. BROOMED FINISH ON SIDEWALK SHALL BE APPLIED PERPENDICULAR TO THE PEDESTRIAN DIRECTION OF TRAVEL. BROOMED FINISH ON DRIVEWAY TRANSITION SHALL BE APPLIED PERPENDICULAR TO THE VEHICULAR DIRECTION OF TRAVEL.
- 9. A THICKENED EDGE IS REQUIRED AT B.O.W. OR B.O.T. WHEN DRIVEWAY DOES NOT ABUT AN EXISTING PAVED OR CONCRETE SURFACE.
- 10. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2%.
- 11. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE, NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.



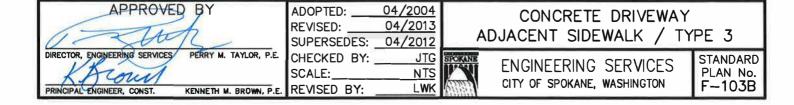


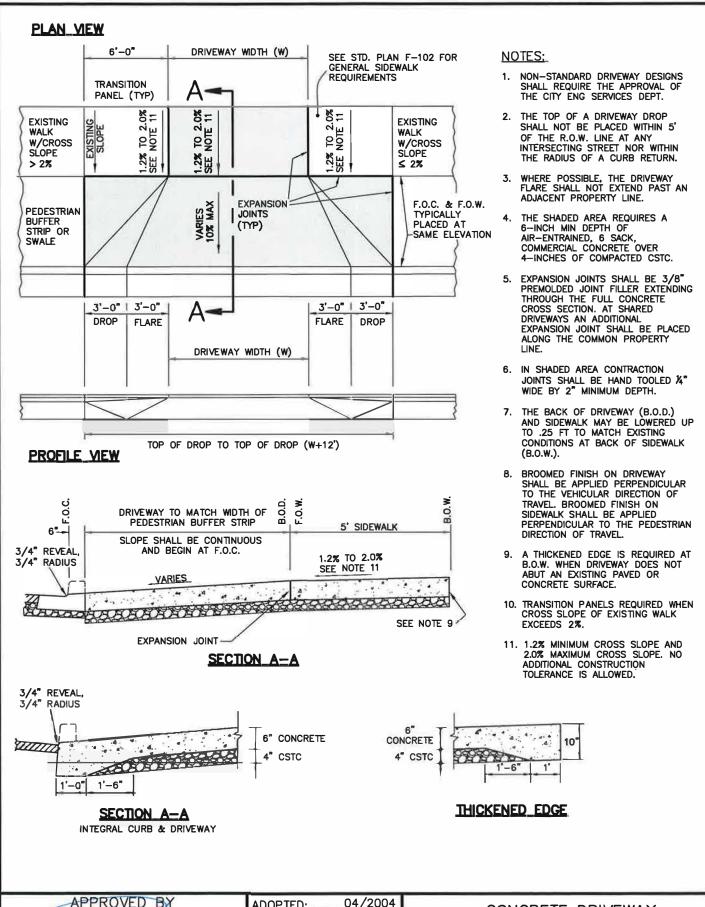
- NON—STANDARD DRIVEWAY DESIGNS SHALL REQUIRE THE APPROVAL OF THE CITY ENG SERVICES DEPT.
- THE TOP OF A DRIVEWAY RAMP SHALL NOT BE PLACED WITHIN 5' OF THE R.O.W. LINE AT ANY INTERSECTING STREET NOR WITHIN THE RADIUS OF A CURB RETURN.
- WHERE POSSIBLE, THE TOP OF A DRIVEWAY RAMP SHALL NOT EXTEND PAST AN ADJACENT PROPERTY LINE.
- THE SHADED AREA REQUIRES A 6-INCH MIN DEPTH OF AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE OVER 4-INCHES OF COMPACTED CSTC.



SECTION A—A
INTEGRAL CURB & DRIVEWAY

- 5. EXPANSION JOINTS SHALL BE 3/8" PREMOLDED JOINT FILLER EXTENDING THROUGH THE FULL CONCRETE CROSS SECTION. AT SHARED DRIVEWAYS AN ADDITIONAL EXPANSION JOINT SHALL BE PLACED ALONG THE COMMON PROPERTY LINE.
- 6. RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH (L) TO EXCEED 15-FT TO AVOID CHASING THE SLOPE INDEFINITELY. RAMP LENGTH (L) SHALL BE INCREASED INCREMENTALLY FROM 6-FT TO 11-FT TO 15-FT TO COMPLY W/ MAXIMUM RAMP RUNNING SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 7. IN SHADED AREA CONTRACTION JOINTS SHALL BE HAND TOOLED &" WIDE BY 2" MINIMUM DEPTH.
- 8. BROOMED FINISH ON SIDEWALK SHALL BE APPLIED PERPENDICULAR TO THE PEDESTRIAN DIRECTION OF TRAVEL BROOMED FINISH ON DRIVEWAY SHALL BE APPLIED PERPENDICULAR TO THE VEHICULAR DIRECTION OF TRAVEL.
- 9. A THICKENED EDGE IS REQUIRED AT B.O.W. WHEN DRIVEWAY DOES NOT ABUT AN EXISTING PAVED OR CONCRETE SURFACE.
- 10. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2% AND WHEN THE WIDTH OF A EXISTING SIDEWALK DOES NOT MATCH THE THE WIDTH OF THE IMPROVEMENTS.
- 11. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE, NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.





DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E. cour KENNETH M. BROWN, P.E.

PRINCIPAL ENGINEER, CONST.

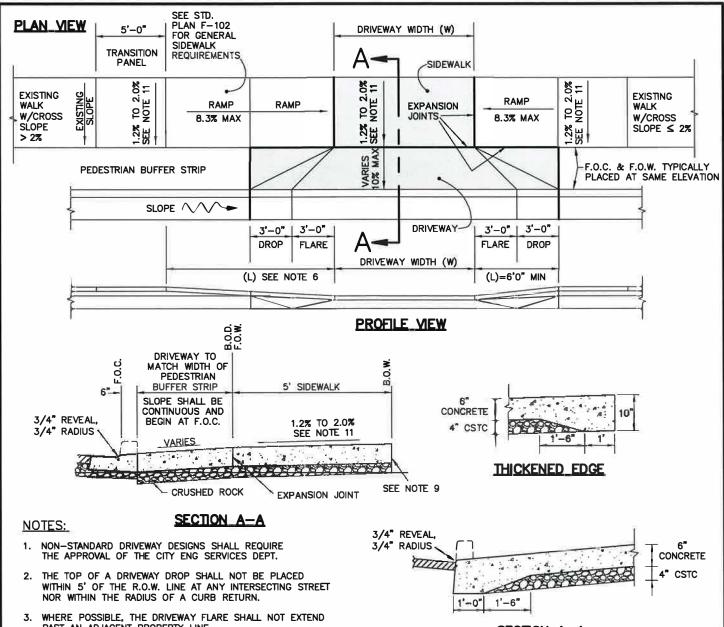
04/2004 ADOPTED: 04/2013 REVISED: -SUPERSEDES: _04/2012 CHECKED BY: _ **JTG** NTS SCALE: LWK REVISED BY:

CONCRETE DRIVEWAY PED BUFFER STRIP WIDTH ≥ 5 FT

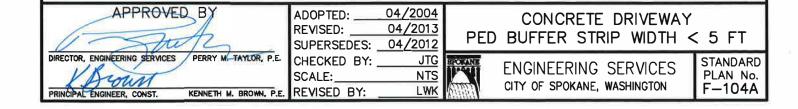


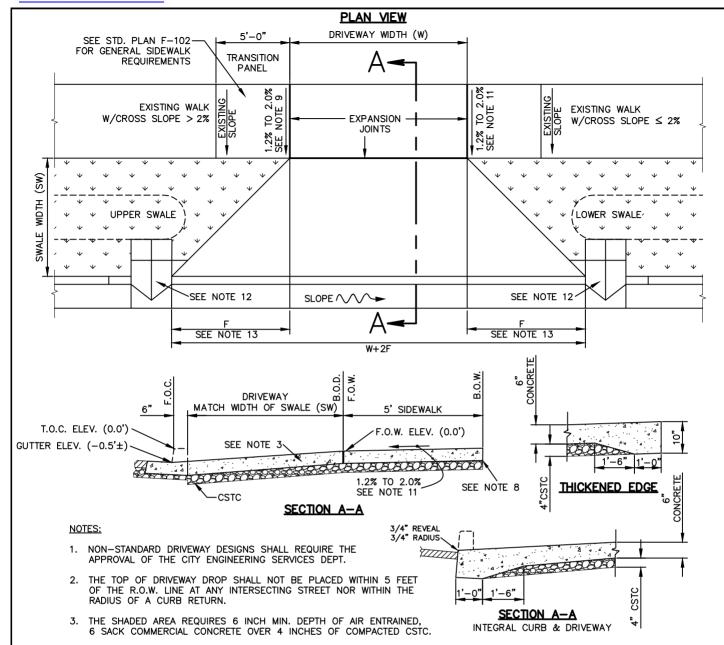
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-104



- PAST AN ADJACENT PROPERTY LINE.
- 4. THE SHADED AREA REQUIRES A 6-INCH MIN DEPTH OF AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE OVER 4-INCHES OF COMPACTED CSTC.
- SECTION_A-A INTEGRAL CURB & DRIVEWAY
- EXPANSION JOINTS SHALL BE 3/8" PREMOLDED JOINT FILLER EXTENDING THROUGH THE FULL CONCRETE CROSS SECTION. AT SHARED DRIVEWAYS AN ADDITIONAL EXPANSION JOINT SHALL BE PLACED ALONG THE COMMON PROPERTY LINE.
- RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH (L) TO EXCEED 15-FT TO AVOID CHASING THE SLOPE INDEFINITELY. RAMP LENGTH (L) SHALL BE INCREASED INCREMENTALLY FROM 6-FT TO 11-FT TO 15-FT TO COMPLY W/ MAXIMUM RAMP RUNNING SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 7. IN SHADED AREA CONTRACTION JOINTS SHALL BE HAND TOOLED 1/2" WIDE BY 2" MINIMUM DEPTH.
- BROOMED FINISH ON SIDEWALK SHALL BE APPLIED PERPENDICULAR TO THE PEDESTRIAN DIRECTION OF TRAVEL. BROOMED FINISH ON DRIVEWAY SHALL BE APPLIED PERPENDICULAR TO THE VEHICULAR DIRECTION OF TRAVEL.
- 9. A THICKENED EDGE IS REQUIRED AT B.O.W. WHEN DRIVEWAY DOES NOT ABUT AN EXISTING PAVED OR CONCRETE SURFACE.
- 10. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2%.
- 11. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.





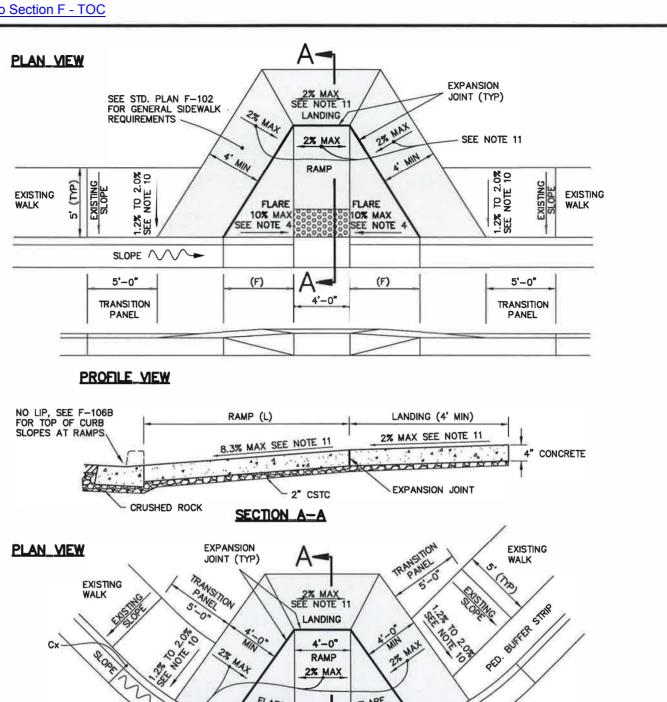
- 4. EXPANSION JOINTS SHALL BE 3/8 INCH PREMOLDED JOINT FILLER EXTENDING THROUGH THE FULL CONCRETE CROSS SECTION. AT SHARED DRIVEWAYS AN ADDITIONAL EXPANSION JOINT SHALL BE PLACED ALONG THE COMMON PROPERTY LINE.
- 5. THE BACK OF DRIVEWAY (B.O.D.) AND SIDEWALK MAY BE LOWERED UP TO 0.25 FEET TO MATCH EXISTING CONDITIONS AT THE BACK OF SIDEWALK.
- 6. IN THE SHADED AREA CONTRACTION JOINTS SHALL BE HAND TOOLED 1/4 INCH WIDE BY 2 INCH MIN. DEPTH.
- 7. BROOM FINISH ON SIDEWALK SHALL BE APPLIED PERPENDICULAR TO THE PEDESTRIAN DIRECTION OF TRAVEL. BROOM FINISH ON DRIVEWAY SHALL BE APPLIED PERPENDICULAR TO THE VEHICULAR DIRECTION OF TRAVEL.
- 8. A THICKENED EDGE IS REQUIRED AT B.O.W. WHEN DRIVEWAY DOES NOT ABUT AN EXISTING PAVED OR CONCRETE SURFACE.
- 9. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING WALK EXCEEDS 2%.
- 10. SEE STD. PLAN B-102F FOR SWALE REQUIREMENTS.
- 11. 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 12. CURB DROP INLET, SEE STD. PLAN F-109.
- 13. FLARE WIDTH (F)=3'. EXCEPTION: WHEN TRAVEL IS ADJACENT TO CURB (I.E., NO PARKING LANE OR BIKE LANE), FLARE WIDTH SHALL EQUAL SWALE WIDTH (SW) BUT NOT TO EXCEED 6'.

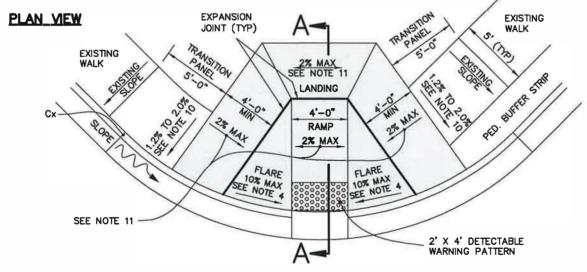


CONCRETE DRIVEWAY WITH INTEGRATED SWALE INLET



STANDARD PLAN No. F-104B





$L = \underline{Cx} \qquad F = \underline{Cx} \\ .063 \qquad .1-S$	<u>Cx</u>	L	<u>Fmin</u>	<u>s</u>	<u>Fmax</u>	<u>s</u>	THIS TABLE PROVIDES APPROXIMATE DIMENSIONS NECESSARY TO MEET ADA
L = RAMP LENGTH (FT) F = FLARE LENGTH (FT) Cx = CURB EXPOSURE (FT) S = GUTTER SLOPE	.3' .4' .5'	4.8' 6.4' 8.0'	3.0' 4.0' 5.0'	0 0 0	4.8' 6.4' 8.0'	.037 .037 .037	SLOPE REQUIREMENTS. ADJUSTMENTS TO FIT EACH LOCATION WILL BE NECESSARY. FIELD LAYOUT AND SLOPE VERIFICATION IS REQUIRED.

APPR	QVED/BY
1	
DIRECTOR, ENGINEERING SER	RVICES PERRY M. TAYLOR, P.E.
112	7

PRINCIPAL ENGINEER, CONST.

) /BY	ADOPTED:	08/1991
//	REVISED:	04/2013
	SUPERSEDES:	04/2012
PERRY M. TAYLOR, P.E.	CHECKED BY:	JTG
	SCALE:	NTS
KENNETH M. BROWN, P.E.	REVISED BY:	LWK

CURB RAMP T	YPE-1
-------------	-------

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-105

- CURB RAMPS SHALL BE CONSTRUCTED USING AIR—ENTRAINED 6—SACK COMMERCIAL CONCRETE.
- MAXIMUM RAMP RUNNING SLOPE SHALL BE 8.3%.
- MAXIMUM CROSS SLOPE AND RUNNING SLOPE ON LANDING SHALL BE 2%.
- 4. 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.
- DO NOT PLACE DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS OR ON ANY PART OF LANDING.
- SEE CITY OF SPOKANE SPECIFICATIONS FOR DETECTABLE WARNING SURFACE PRODUCT & COLOR REQUIREMENTS.
- 8. TRANSITION PANELS REQUIRED WHEN CROSS SLOPE OF EXISTING SIDEWALK EXCEEDS 2%.
- 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

ADOPTE
REVISED
SUPERS
CHECKE
SCALE:

PRINCIPAL ENGINEER, CONST.

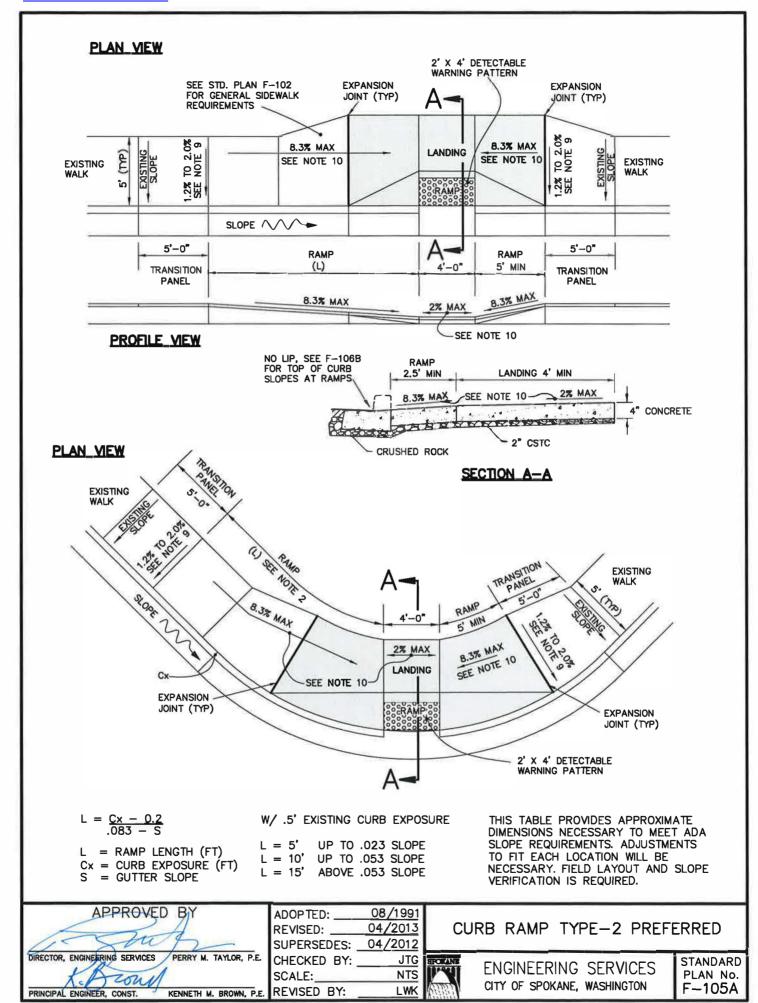
KENNETH M. BROWN, P.E.

ADOPTED: 08/1991
REVISED: 04/2013
SUPERSEDES: 04/2012
CHECKED BY: JTG
SCALE: NTS
REVISED BY: LWK

F-105 NOTES

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-105



- CURB RAMPS SHALL BE CONSTRUCTED USING AIR—ENTRAINED 6-SACK COMMERCIAL CONCRETE.
- 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.
- DO NOT PLACE DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS OR ON ANY PART OF LANDING.
- 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.
- 10. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

APPROVED BY ADOPTED: REVISED: _

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

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

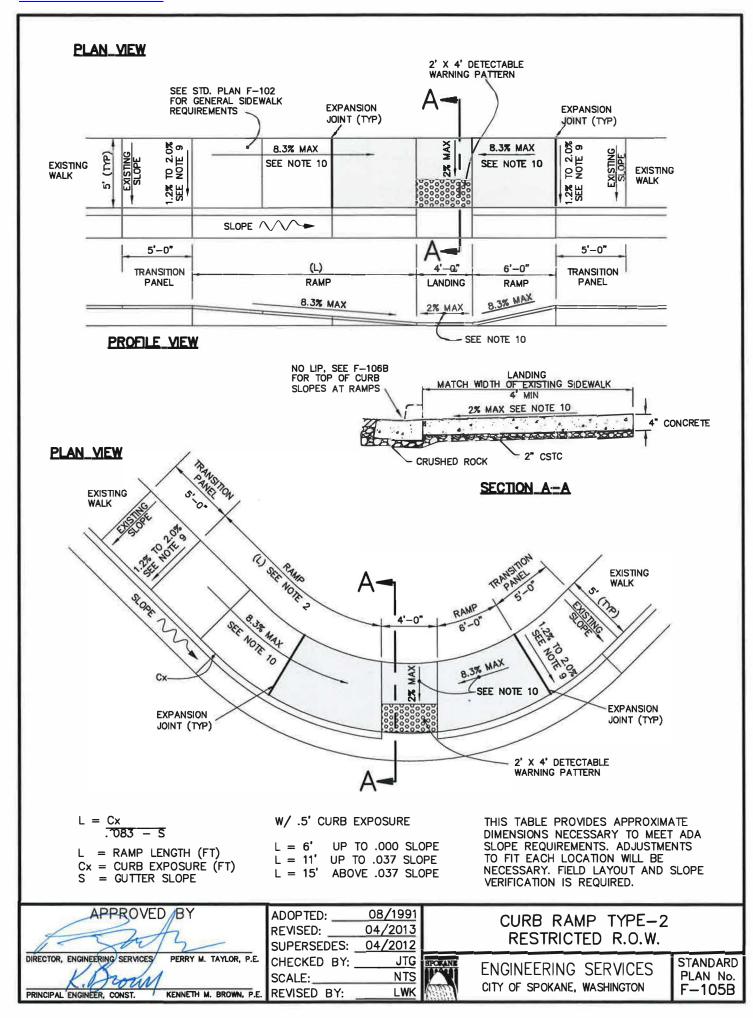
08/1991 04/2013 SUPERSEDES: <u>04/2012</u> CHECKED BY: NTS SCALE:

REVISED BY:

F-105A NOTES



LWK



- 1. CURB RAMPS SHALL BE CONSTRUCTED USING AIR-ENTRAINED 6-SACK COMMERCIAL CONCRETE.
- 2. MINIMUM RAMP LENGTH (L) IS 6 FEET. MAXIMUM RUNNING SLOPE IS 8.3%. THE RAMP LENGTH SHALL BE INCREASED INCREMENTALLY FROM 6 FT. TO 11 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 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.
- 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.
- 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 10. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.

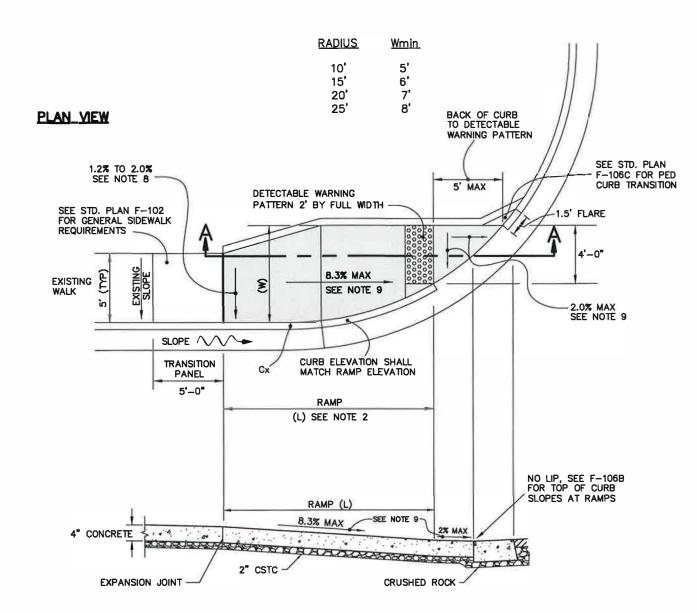
APPROVED BY 08/1991 ADOPTED: _ 04/2013 REVISED: _ SUPERSEDES: 04/2012 PERRY M. TAYLOR, P.E. CHECKED BY: ___

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

F-105B NOTES

STANDARD PLAN No. F-105B

PRINCIPAL ENGINEER, CONST.



SECTION_A-A

 $L = \frac{Cx}{.083 - S}$

PRINCIPAL ENGINEER, CONST.

L = RAMP LENGTH (FT) Cx = CURB EXPOSURE (FT)

S = GUTTER SLOPE

W/ .5' CURB EXPOSURE

L = 6' UP TO .000 SLOPE

L = 11' UP TO .037 SLOPE L = 15' ABOVE .037 SLOPE

THIS TABLE PROVIDES APPROXIMATE DIMENSIONS NECESSARY TO MEET ADA SLOPE REQUIREMENTS. ADJUSTMENTS TO FIT EACH LOCATION WILL BE NECESSARY. FIELD LAYOUT AND SLOPE VERIFICATION IS REQUIRED.

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

OPTED:	08/1991
VISED:	04/2013
PERSEDES:	04/2012
ECKED BY:	JTG
	NTS
VISED BY:	LWK
	OPTED: VISED: PERSEDES: ECKED BY: ALE: VISED BY:

CURB RAMP TYPE-3 ADJACENT SIDEWALK



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-105C

- 1. CURB RAMPS SHALL BE CONSTRUCTED USING AIR-ENTRAINED 6-SACK COMMERCIAL CONCRETE.
- MINIMUM RAMP LENGTH (L) IS 6 FEET. MAXIMUM RUNNING SLOPE IS 8.3%. THE RAMP LENGTH SHALL BE INCREASED INCREMENTALLY FROM 6 FT. TO 11 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 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.
- 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%.
- 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 DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.

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

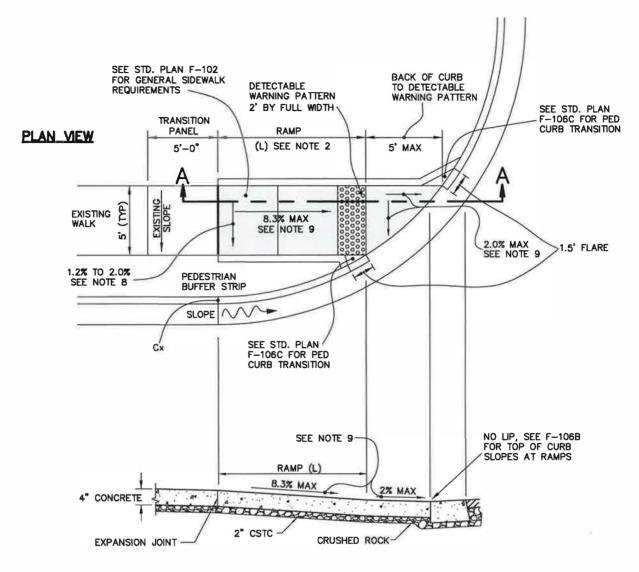
com

ADOPTED: 08/1991 04/2013 REVISED: _ SUPERSEDES: 04/2012 JTG CHECKED BY: _ NTS SCALE: REVISED BY: LWK

F-105C NOTES

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-105C



SECTION A-A

 $L = \frac{Cx}{.083 - S}$

PRINCIPAL ENGINEER, CONST.

L = RAMP LENGTH (FT)Cx = CURB EXPOSURE (FT)

S = GUTTER SLOPE

W/ .5' CURB EXPOSURE

L = 6' UP TO .000 SLOPE L = 11' UP TO .037 SLOPE

L = 15' ABOVE .037 SLOPE

THIS TABLE PROVIDES APPROXIMATE DIMENSIONS NECESSARY TO MEET ADA SLOPE REQUIREMENTS. ADJUSTMENTS TO FIT EACH LOCATION WILL BE NECESSARY. FIELD LAYOUT AND SLOPE VERIFICATION IS REQUIRED.

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

ADOPTED: _____08/1991
REVISED: ____04/2013
SUPERSEDES: ___04/2012
CHECKED BY: ____JTG
SCALE: ____NTS
REVISED BY: ____LWK

CURB RAMP TYPE-3 SEPARATED SIDEWALK

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-105D

- CURB RAMPS SHALL BE CONSTRUCTED USING AIR—ENTRAINED 6—SACK COMMERCIAL CONCRETE.
- 2. MINIMUM RAMP LENGTH (L) IS 6 FEET. MAXIMUM RUNNING SLOPE IS 8.3%. THE RAMP LENGTH SHALL BE INCREASED INCREMENTALLY FROM 6 FT. TO 11 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 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.
- SEE CITY OF SPOKANE SPECIFICATIONS FOR DETECTABLE WARNING SURFACE PRODUCT & COLOR REQUIREMENTS.
- 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.
- 1.2% MINIMUM CROSS SLOPE AND 2.0% MAXIMUM CROSS SLOPE. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALLOWED.
- 9. NO ADDITIONAL CONSTRUCTION TOLERANCE IS ALOWED.

DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E. CHECKED SCALE:

KENNETH M. BROWN, P.E.

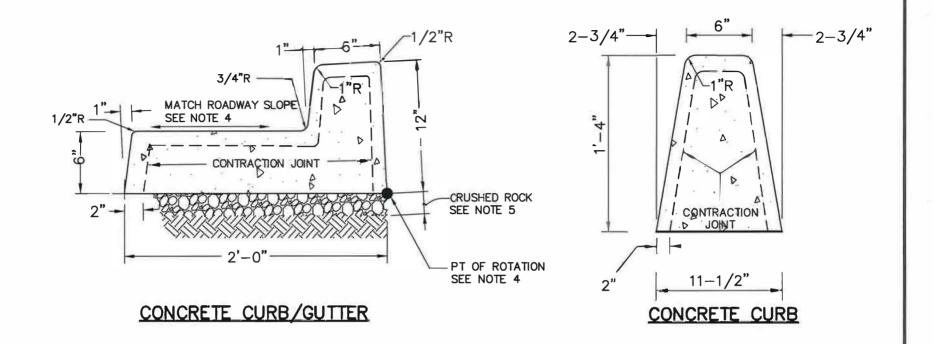
PRINCIPAL ENGINEER, CONST.

ADOPTED: 08/1991
REVISED: 04/2013
SUPERSEDES: 04/2012
CHECKED BY: JTG
SCALE: NTS
REVISED BY: LWK

F-105D NOTES

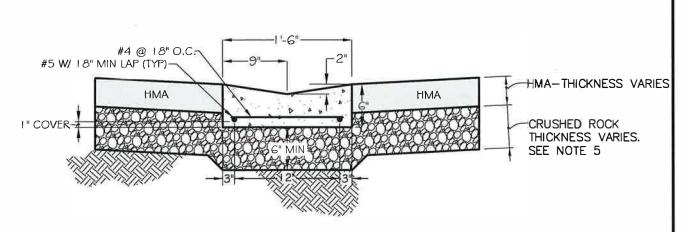
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-105D

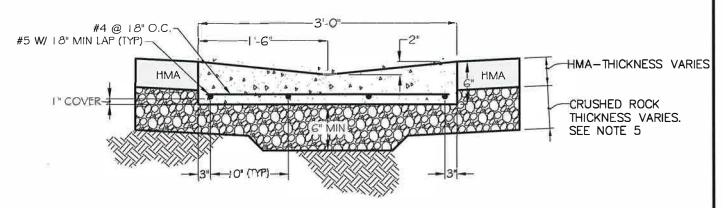


- 1. CONCRETE CURB & CURB/GUTTER SHALL BE CONSTRUCTED USING AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE.
- 2. EXPANSION JOINTS SHALL USE A 3/8" PREMOLDED JOINT FILLER. EXPANSION JOINTS SHALL EXTEND THROUGH THE FULL CROSS—SECTION OF THE CURB OR CURB/GUTTER & PLACED BETWEEN EXISTING & NEW CONCRETE WHERE 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 REVISED:04/2012 SUPERSEDES:01/2009	CONCRETE CURB AND CURB / GUTTI	ER
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.	CHECKED BY: SJS SCALE: NTS	ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON	STANDARD PLAN No. F-106



CONCRETE "V" GUTTER
RECOMMENDED FOR USE IN A PARALLEL
ORIENTATION W/CURB & GUTTER



CONCRETE "V" GUTTER
RECOMMENDED FOR USE ACROSS A
STREET HEADER

NOTES:

- 1. CONCRETE GUTTER SHALL BE CONSTRUCTED USING AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE IN ACCORDANCE W/ 6-02.3(2)B.
- 2. SEE SEC 8-04 FOR CONC GUTTER.
- 3. SEE STD PLANS F-103 THROUGH F-104B FOR CONC DRIVEWAYS
- 4. EXPANSION (ISOLATION) JOINTS SHALL USE A 3/8" MIN PREMOLDED JOINT FILLER PER SEC 9-04.1(2). 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. A TOOLED CONTRACTION (CONTROL) JOINT SHALL BE PLACED ACROSS THE CURB OR CURB/GUTTER AND SPACED AT A MAX. 15'-0" O.C.
- 5. PROVIDE COMPACTED CRUSHED ROCK UNDERNEATH GUTTER TO THE PAYMENT LIMITS & REQ'MTS PER STD PLAN W-102. CRUSHED ROCK THICKNESS IS DEPENDENT UPON THE STREET SECTION THICKNESS.

APPROVED BY

ADOPTED: _____09/2010
REVISED: _____04/2012
SUPERSEDES: _____
CHECKED BY: _____AG
SCALE: _____NTS
PRINCIPAL ENGINEER, DESIGN GARY S. NELSON, P.E.

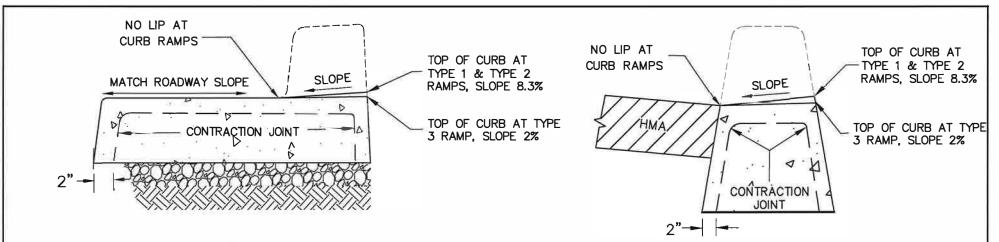
DWG/REV. BY: MBM/SRM

ENGINEEDING CEDVICES

CONCRETE "V" GUTTERS

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

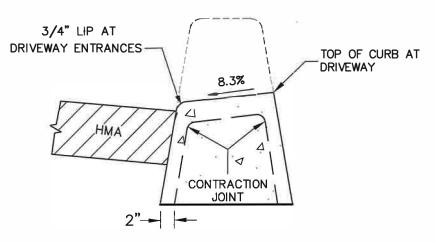
STANDARD PLAN No. F-106A



CONCRETE CURB/GUTTER @ CURB RAMP

3/4" LIP AT DRIVEWAY ENTRANCES MATCH ROADWAY SLOPE TOP OF CURB AT DRIVEWAY 2"-

CONCRETE CURB @ CURB RAMP



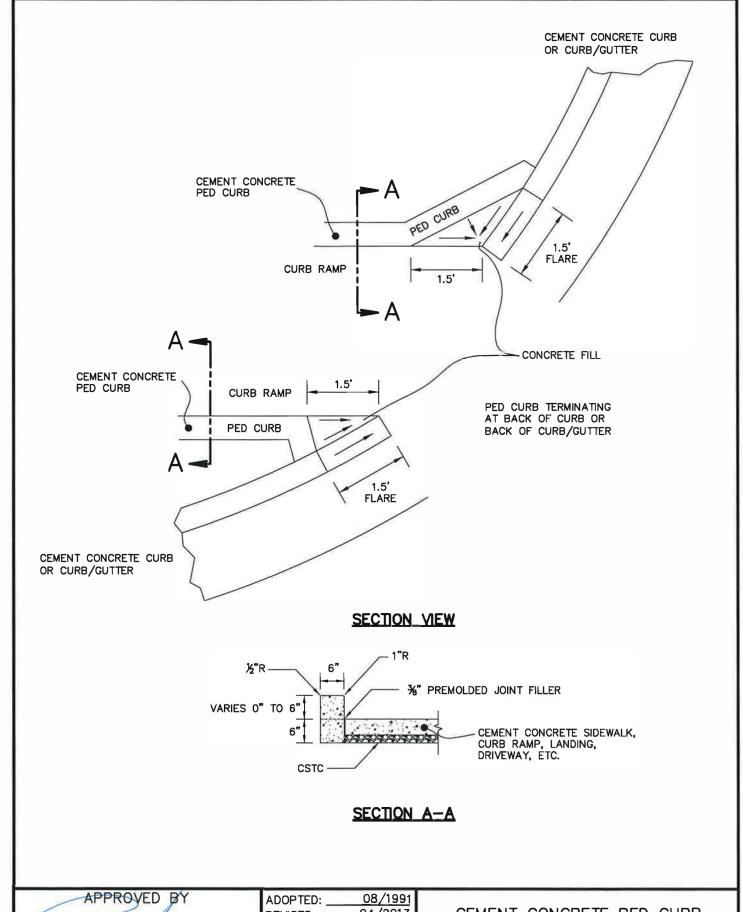
CONCRETE CURB/GUTTER @ DRIVEWAY

NOTES:

CONCRETE CURB @ DRIVEWAY

1. CONCRETE CURB & CURB/GUTTER SHALL BE CONSTRUCTED USING AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE.

ADOPTED: 04/2012 REVISED: SUPERSEDES:	CURB AND CURB/GUTTER @ CURB RAMPS AND DRIVEWAYS	
CHECKED BY: SJS SCALE: NTS	ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON	STANDARD PLAN No. F-106B



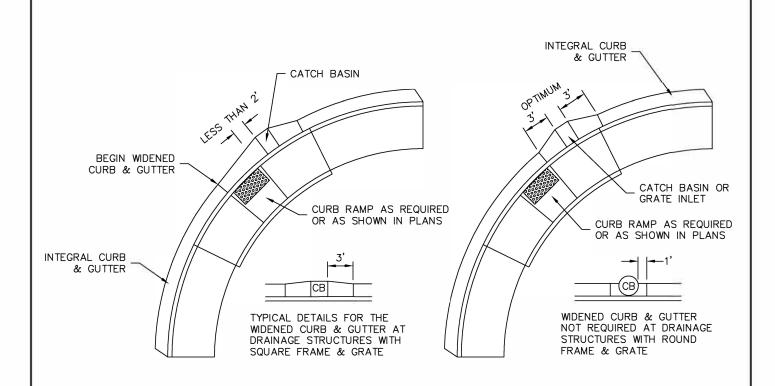
A.	ADOPTED: REVISED: SUPERSEDES:	08/1991 04/2013 04/2012	С
DIRECTOR, ENGINEERING SERVICES PERRY M. TAYLOR, P.E.	CHECKED BY:		SPOKANE IP VI
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.		LWK	

CEMENT CONCRETE PED CURB



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-106C



- 1. DRAINAGE STRUCTURES SHALL NOT BE INSTALLED WITHIN THE LANDING AREA OF CURB RAMPS. ROTATION OF RAMP MAY BE REQUIRED.
- 2. WIDENED CURB & GUTTER SHALL TERMINATE AT CONTROL JOINTS.
- 3. WHERE CURB REMOVED FOR RAMP INSTALLATION, REPLACEMENT CURB SHALL BE CURB/GUTTER, MATCHING ADJACENT CURB EXPOSURE MAY REQUIRE MANUAL FORMING OF CURB/GUTTER.

APPROVED BY ENGINEERING OPERATIONS MANAGER KYLE, TWOHIG DANIEL ALBERT BULLER, P.E.

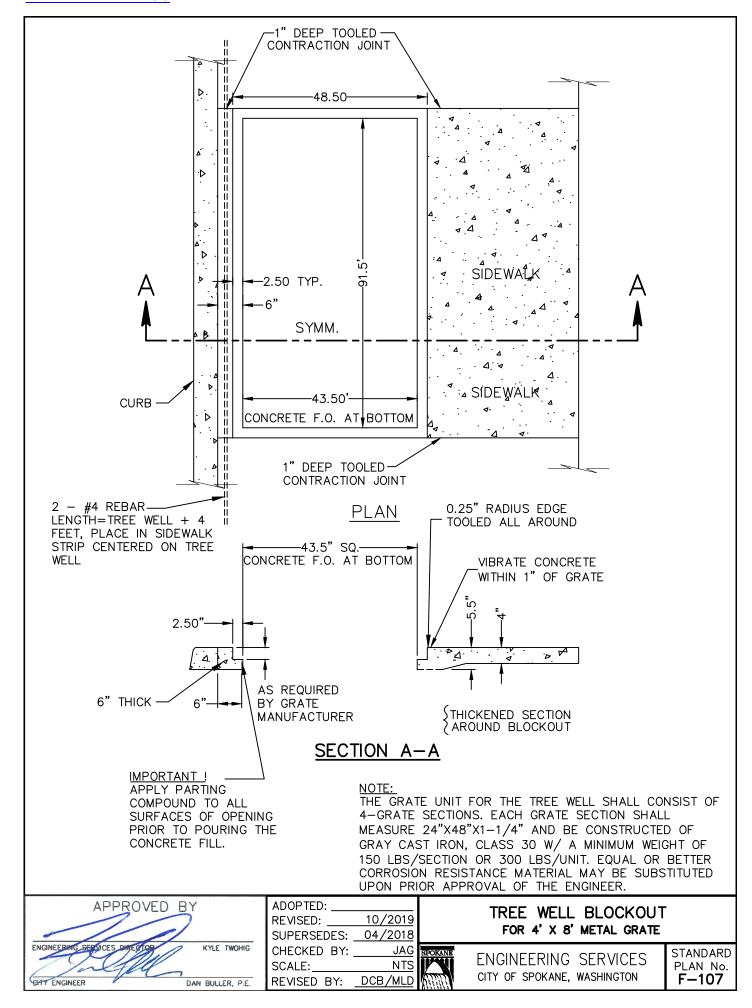
CITY ENGINEER

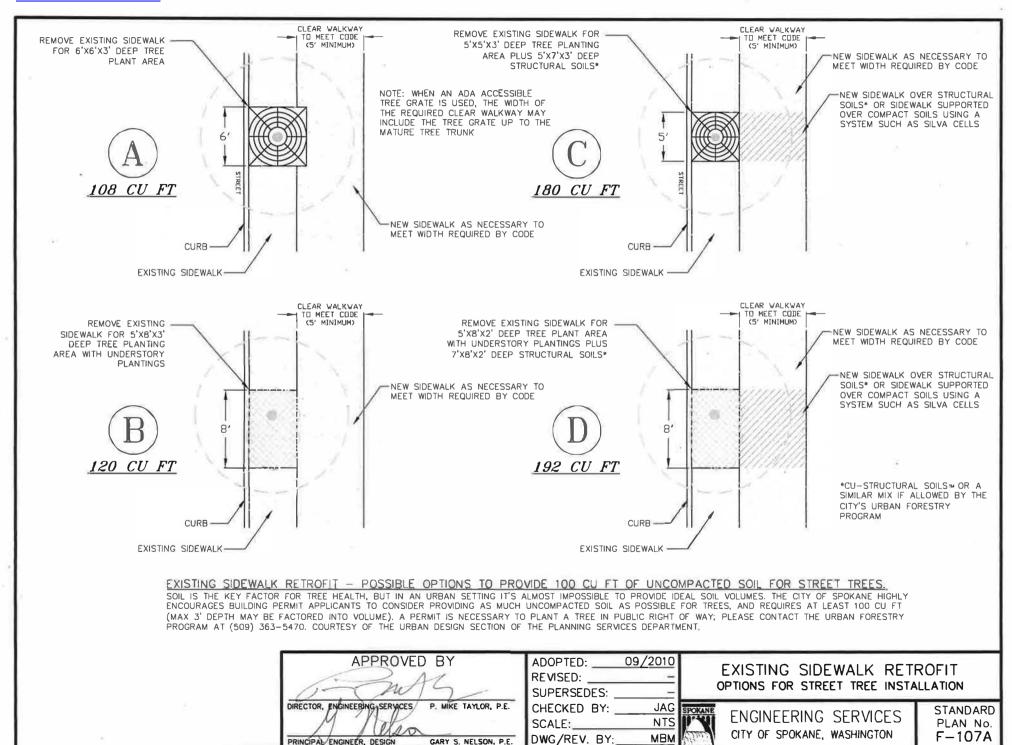
03/2018 ADOPTED: _ REVISED: SUPERSEDES: CHECKED BY: _ JAG NTS SCALE:_ REVISED BY: INT

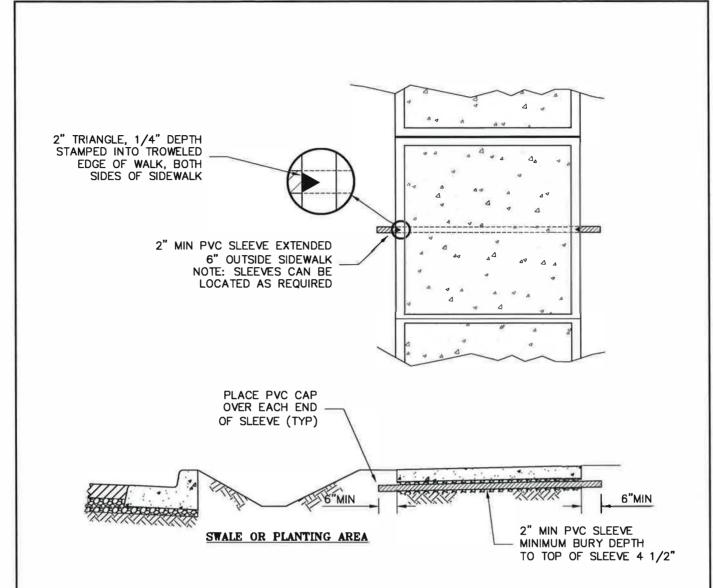
CURB/GUTTER AT DRAINAGE STRUCTURE



STANDARD PLAN No. F-106D







- 1. SEE STD PLAN F-102 FOR GENERAL SIDEWALK REQUIREMENTS.
- 2. SEE CITY OF SPOKANE DESIGN STANDARDS SECTION 3 FOR SIDEWALK WIDTH REQUIREMENTS.
- 3. SEE CITY OF SPOKANE DESIGN STANDARDS SECTION 3 FOR PEDESTRIAN BUFFER STRIP WIDTH REQUIREMENTS
- 4. SEE STD PLAN B-102F FOR BIO-INFILTRATION SWALE REQUIREMENTS.

APPROVED BY

ADOPTED: ____07/2014

REVISED: _____

SUPERSEDES: ____

CHECKED BY: ____DAB

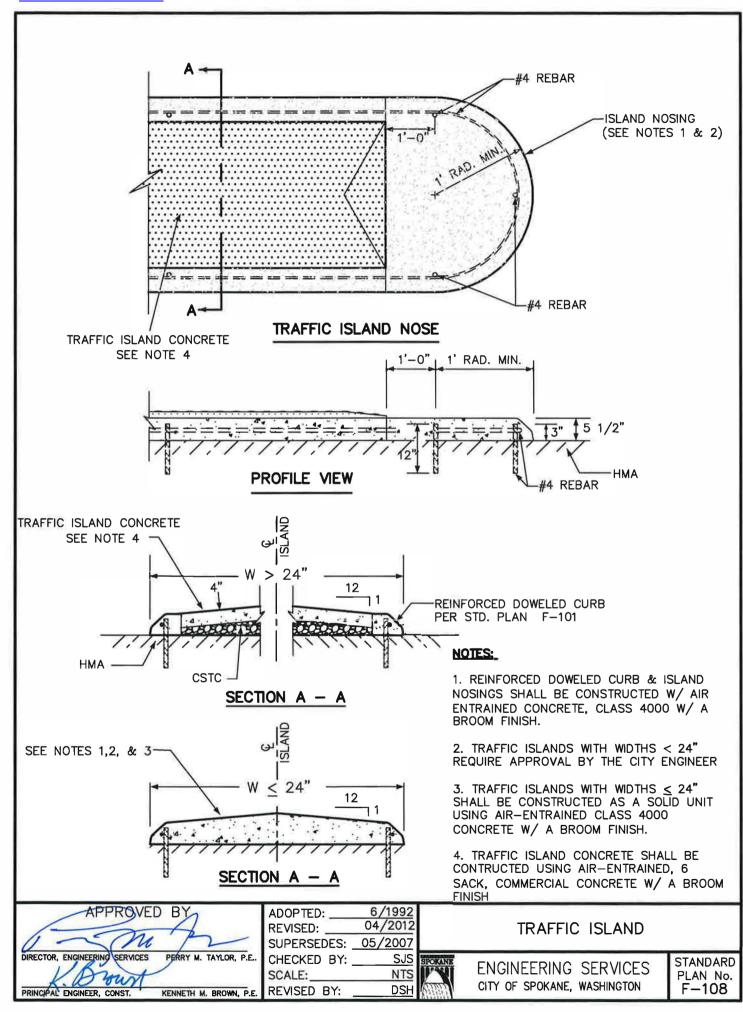
SCALE: ____NTS

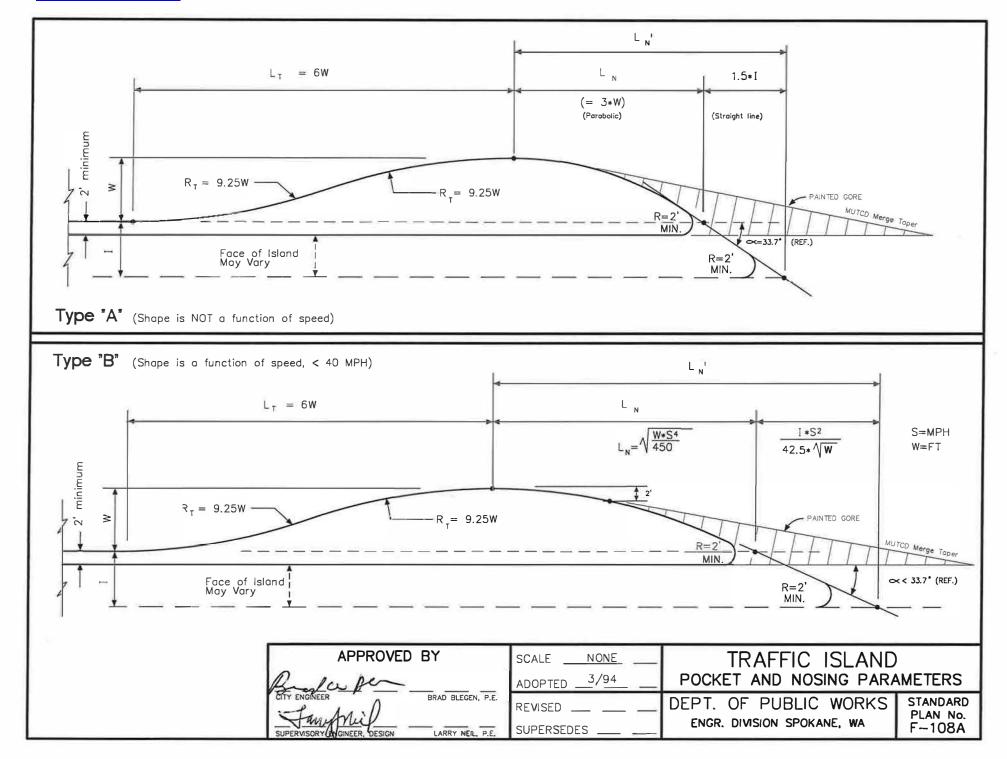
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

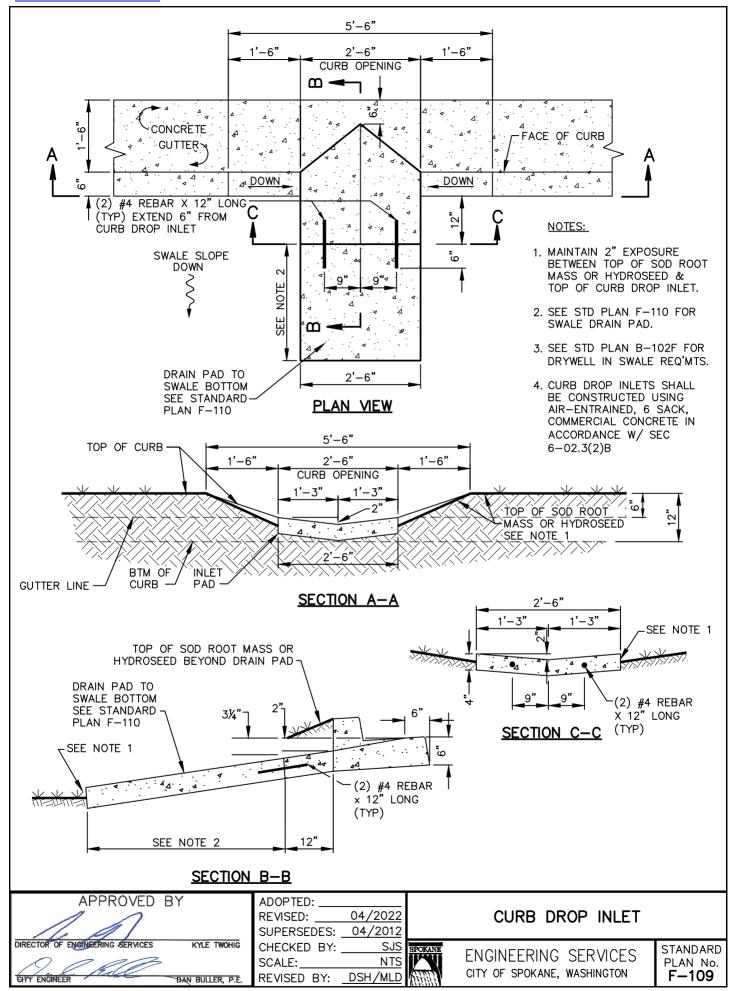
MARKING IRRIGATION SLEEVES

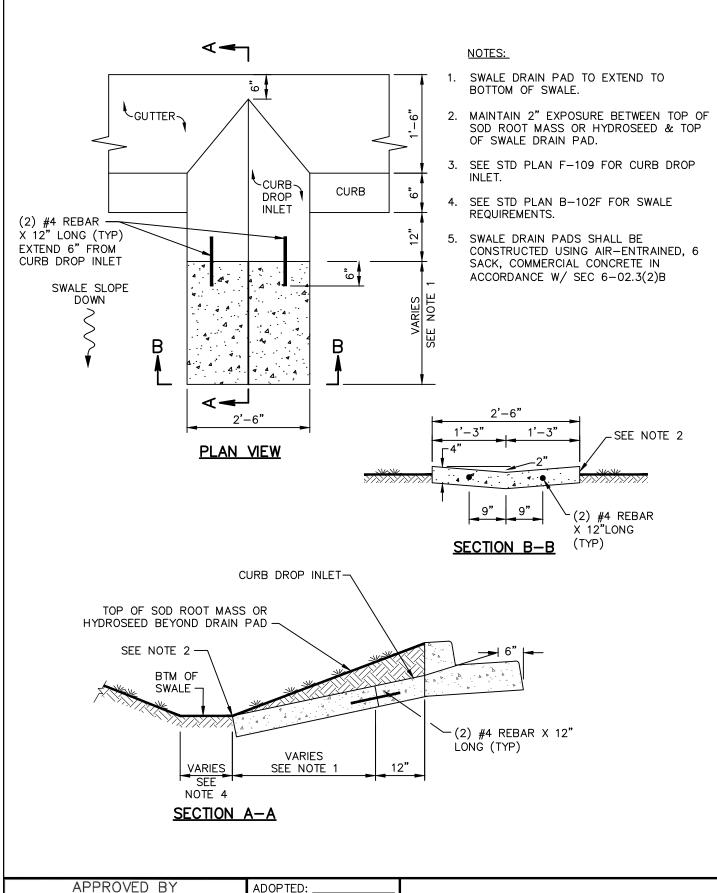
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-107B







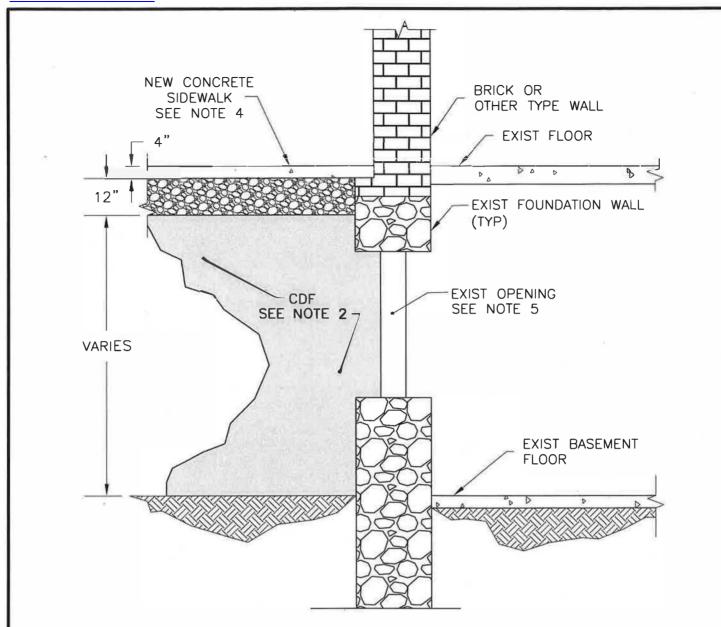


DIRECTOR OF ENGINEERING SERVICES KYLE TWOHIG

SWALE DRAIN PAD

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. F-110



- 1. ALL UNDERGROUND UTILITIES SHALL BE LOCATED, VERIFIED FOR BEING ACTIVE OR INACTIVE, & DETERMINED FOR EITHER REMOVAL, RELOCATION, OR REROUTING PRIOR TO VAULT RECONSTRUCTION.
- 2. FILL VOID BENEATH VAULTED SIDEWALK TO UNDERSIDE OF CSTC W/ MACHINE EXCAVATABLE CDF PER SECTION 2-09.3(1)E, 150-200 PSI. ALTERNATIVE FILLS IN LIEU OF CDF SHALL BE PRE-APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. STANDARD PLAN DEPICTS THE ENTIRE SIDEWALK VOID TO BE FILLED.
- 3. PLACE 12-INCHES OF CSTC IN TWO 6-INCH LIFTS, COMPACTED TO 95% MAX DENSITY. CSTC PER SECTION 4-04.2 & 9-03.9(3).
- 4. CONSTRUCT NEW CONCRETE SIDEWALK PER COS STD PLANS F102A & F-102B. USE 6-SACK, AIR-ENTRAINED COMMERCIAL CONCRETE PER SECTION 6-02.3(2)B.
- 5. ANY STRUCTURAL RE-INFORCEMENT OR MODIFICATIONS TO EXISTING FOUNDATION WALLS OR OPENINGS SHALL BE DESIGNED BY OTHERS AND APPROVED BY THE CITY OF SPOKANE

APPROVED, BY	ADOPTED: 09/2010 REVISED: SUPERSEDES:	VAULTED SIDEWALK ELIMINATION W/ CDF BACKFIL L	
N War	CHECKED BY: JAC SCALE: NTS DWG/REV. BY: RLB/SRM	ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON	STANDARD PLAN No. F-111