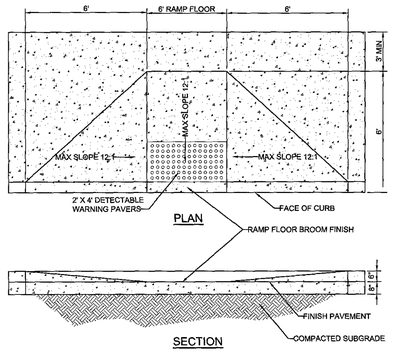
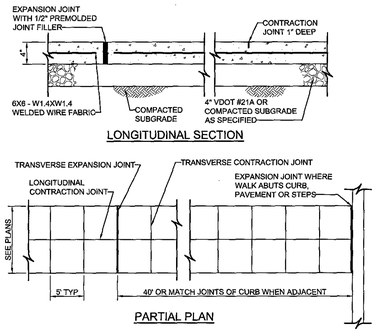
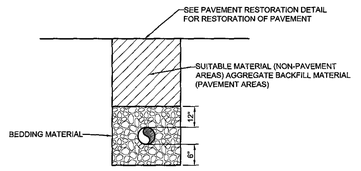


1 | CURB CUT RAMP
C-501 | NO SCALE



WALK WIDTHS	LONGITUDINAL CONTRACTION JOINT
- 5'-11"	NONE
6'-0" - 7'-11"	ONE ALONG WALK AT CENTERLINE
8'-0" - 12'-0"	TWO ALONG WALK AT THIRD POINTS

2 | CONCRETE WALK
C-501 | NO SCALE



NOTES:
1. MAXIMUM AND MINIMUM TRENCH WIDTHS ARE 2'-0"-1'-2" FOR 4" Ø PIPE AND 2'-6"-1'-4" FOR 6"Ø PIPE, MEASURED 1 FOOT ABOVE THE TOP OF THE PIPE.

4 | PIPE TRENCH
C-501 | NO SCALE

TABLE 3.32-C
SITE SPECIFIC SEEDING MIXTURES FOR APPALACHIAN/MOUNTAIN AREA

	Total Lbs. Per Acre
Minimum Care Lawn	
- Commercial or Residential	200-250 lbs.
- Kentucky 31 or Turf-Type Tall Fescue	90-100%
- Improved Perennial Ryegrass *	0-10%
- Kentucky Bluegrass	0-10%
High-Maintenance Lawn	
Minimum of three (3) up to five (5) varieties of bluegrass from approved list for use in Virginia.	125 lbs.
General Slope (3:1 or less)	
- Kentucky 31 Fescue	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop **	20 lbs.
	150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	
- Kentucky 31 Fescue	108 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop **	20 lbs.
- Crownvetch ***	20 lbs.
	150 lbs.

* Perennial Ryegrass will germinate faster and at lower soil temperatures than fescue, thereby providing cover and erosion resistance for seedbed.

** Use seasonal nurse crop in accordance with seeding dates as stated below:
March, April through May 15th ..... Annual Rye
May 16th through August 15th ..... Foxtail Millet
August 16th through September, October ..... Annual Rye
November through February ..... Winter Rye

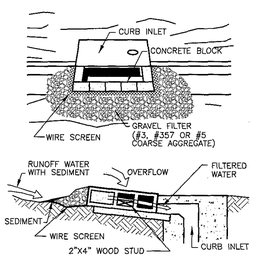
*** If Flatpea is used, increase to 30 lbs./acre. All legume seed must be properly inoculated. Weeping Lovegrass may also be included in any slope or low-maintenance mixture during warmer seeding periods; add 10-20 lbs/acre in mixes.

TABLE 3.31-B
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS
"QUICK REFERENCE FOR ALL REGIONS"

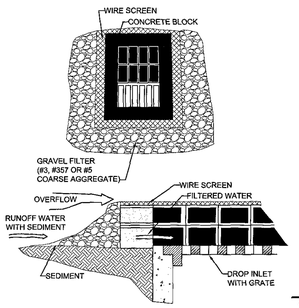
Planting Dates	Species	Rate (lbs./acre)
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100
Feb. 16 - Apr. 30	Annual Ryegrass (Lolium multi-florum)	60 - 100
May 1 - Aug 31	German Millet (Setaria italica)	50

Source: Va. DSWC

6 | SEEDING SPECIFICATIONS
C-501 | NO SCALE



7 | CURB INLET PROTECTION (IP)
C-501 | NO SCALE



8 | GRATE INLET PROTECTION (IP)
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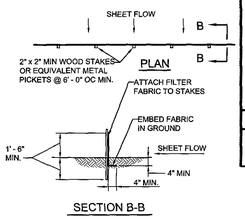
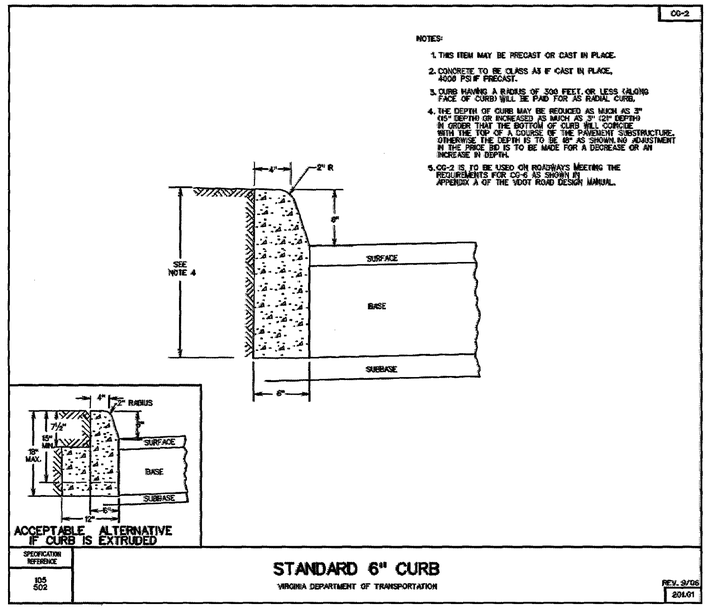
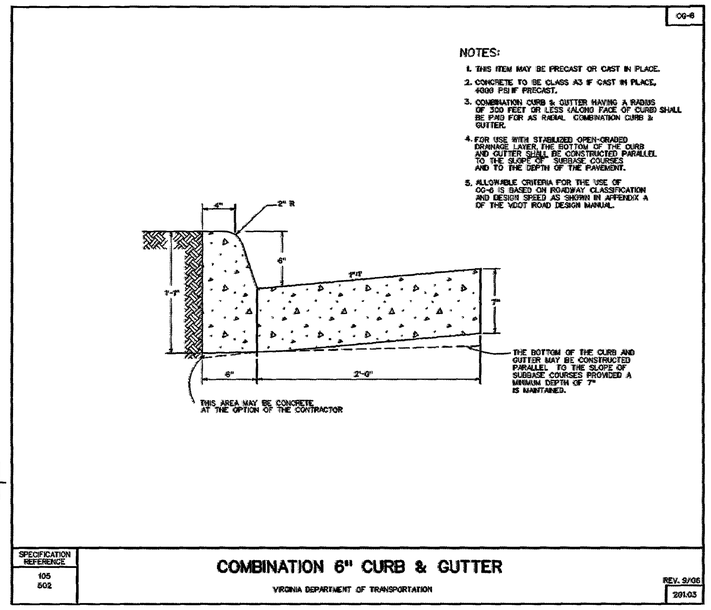


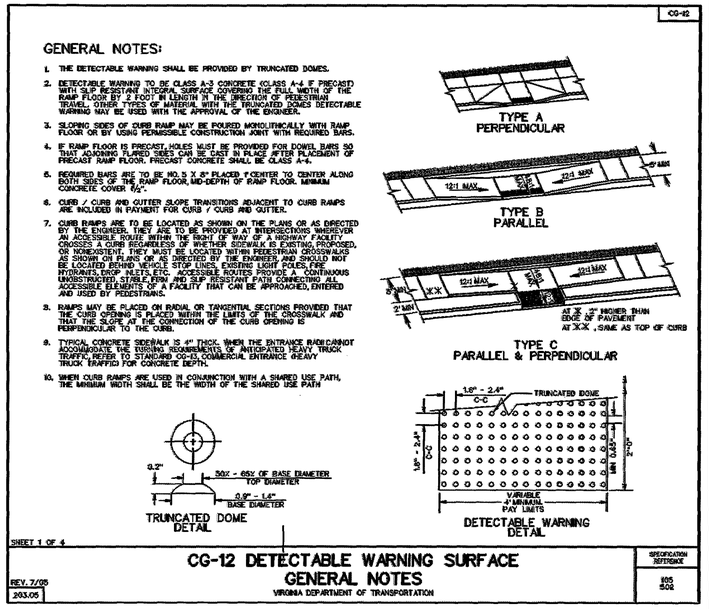
9 | TEMPORARY SILT FENCE (SF)
C-501 | NO SCALE



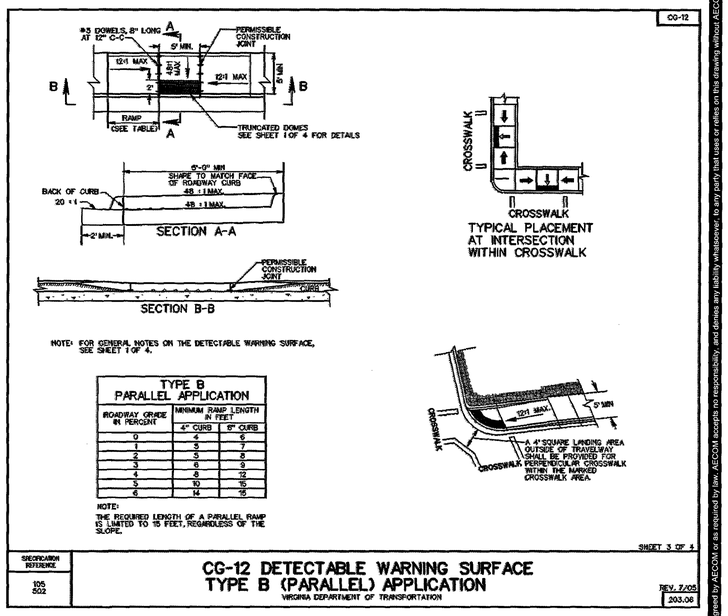
3A | CG-2 STANDARD 6" CURB
C-501 | NO SCALE



3B | CG-6 COMBINATION 6" CURB AND GUTTER
C-501 | NO SCALE

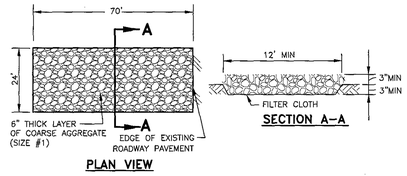


CG-12 DETECTABLE WARNING SURFACE GENERAL NOTES
5 | CG-12 DETECTABLE WARNING SURFACE GENERAL NOTES
C-501 | NO SCALE

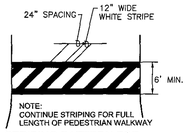


HEIGHT GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15

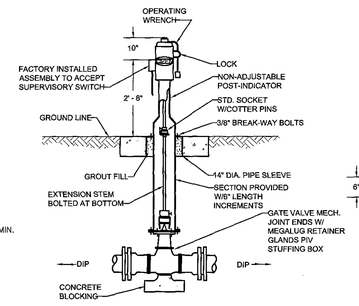
CG-12 DETECTABLE WARNING TYPE A (PERPENDICULAR) APPLICATION
10 | CG-12 DETECTABLE WARNING TYPE A (PERPENDICULAR) APPLICATION
C-501 | NO SCALE



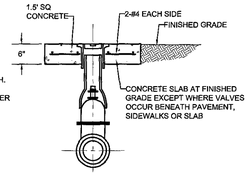
11 | TEMPORARY CONSTRUCTION ENTRANCE (CE)
C-501 | NO SCALE



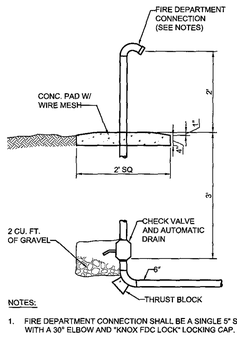
STRIPING PATTERN FOR PEDESTRIAN WALKWAY
12 | PAVEMENT MARKING DETAILS
C-501 | NO SCALE



13 | POST INDICATOR VALVE (PIV)
C-501 | NO SCALE

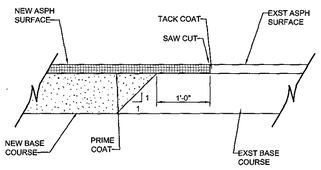


14 | VALVE BOX SETTING
C-501 | NO SCALE

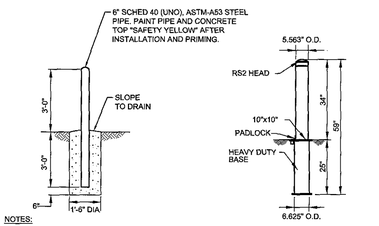


NOTES:
1. FIRE DEPARTMENT CONNECTION SHALL BE A SINGLE 5" STORZ WITH A 30° ELBOW AND "KNOX FDC LOCK" LOCKING CAP.

15 | FIRE DEPARTMENT CONNECTION
C-501 | NO SCALE



16 | PAVEMENT TRANSITION DETAIL
C-501 | NO SCALE



NOTES:
1. COORDINATE BOLLARD LOCATIONS WITH FOUNDATIONS AND UTILITIES.

NOTE: REMOVABLE BOLLARD MR-HP-RS2-HD AS PROVIDED BY BLUE EMBER TECHNOLOGIES LLC OR APPROVED EQUAL.

REMOVABLE BOLLARD

17 | BOLLARD DETAIL
C-501 | NO SCALE

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03/08/18
PROFESSIONAL ENGINEER

ISSUE/REVISION

I/R	DATE	DESCRIPTION
3	03/08/2018	CITY CP SUBMISSION
2	01/19/2018	CITY CP SUBMISSION
1	12/04/2017	FOR PRESUBMISSION MEETING
0	12/01/2017	FOUNDATION SUBMISSION

KEY PLAN

PROJECT NUMBER
60544603

SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-501

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Project Management Initials:
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IN: HIRA, PAUL; FREELAND, ANDREW