STATE	PROJECT	SHEET NUMBER
ST	PROJECT NUMBER PROJECT NAME	Untitled

NOTE:

1. Select the inlet protection device to fit field conditions as approved by the CO.
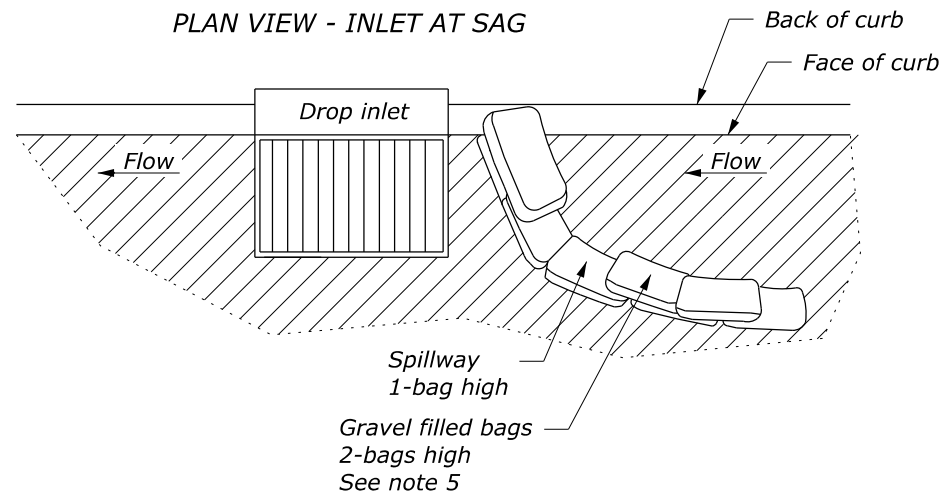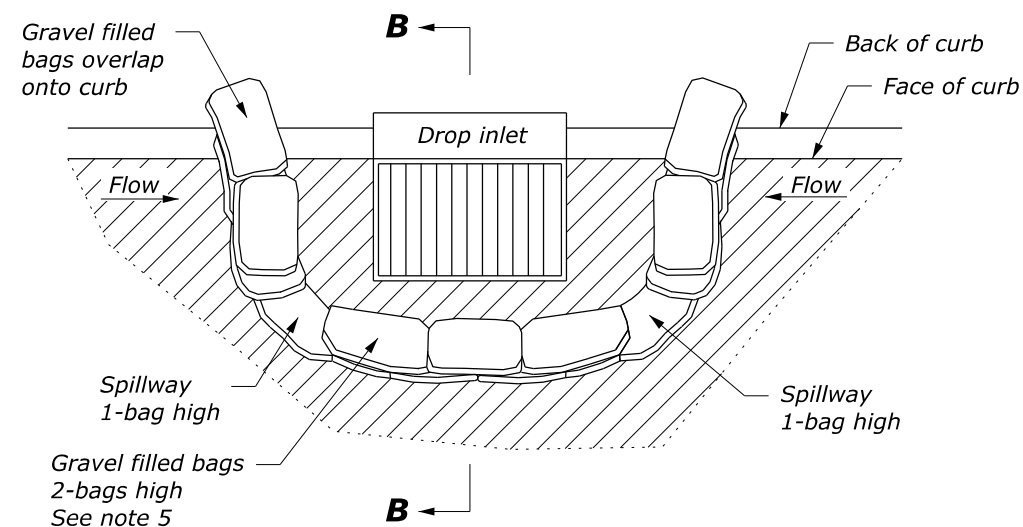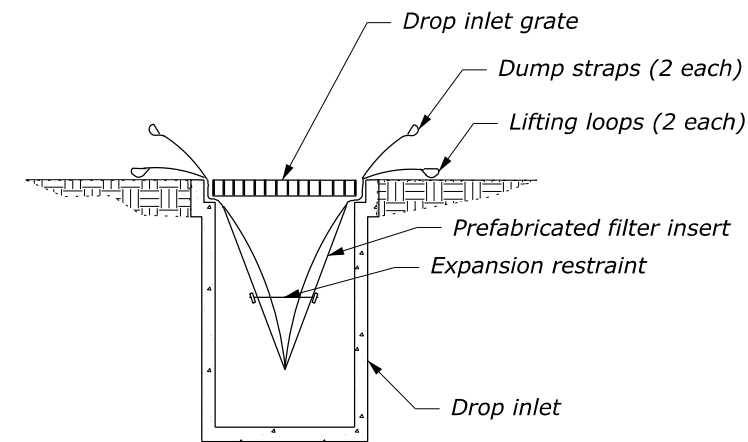
2. Install fiber roll with stakes spaced no more than 24" on center. Drive stakes 12" (min.) into undisturbed soil.

3. Approximate finished dimension of gravel bags is 12" x 18".

4. Maximum top of gravel bag spillway elevation = Top of curb minus 1".

5. Pack gravel filled bags tightly together end to end to ensure no sediment flows between or underneath the bags. Where tight fit is unachievable, install geotextile filter, class 2, type C along the upstream face of the bags. Place fabric over the top of the bags to the spillway elevation. Anchor the fabric by placing the next layer of bags on top of it. Extend the geotextile fabric a minimum of 18" upstream of the bags. Cover geotextile fabric to the top of the fabric with clean, silt-free coarse aggregate between 2" and 3" in diameter.

Drop inlet grate

Fiber roll

PLAN

Gravel filled bags overlap onto curb

Back of curb

Face of curb

Drop inlet

Flow

Flow

Spillway 1-bag high

Spillway 1-bag high

Gravel filled bags 2-bags high See note 5

PLAN VIEW - INLET AT SAG

Fiber roll in full contact with ground

1" x 1" or 1" ⌀ wood stake See note 2

9" ⌀ min. fiber roll

Accumulated sediment

Drop inlet grate

SECTION A-A
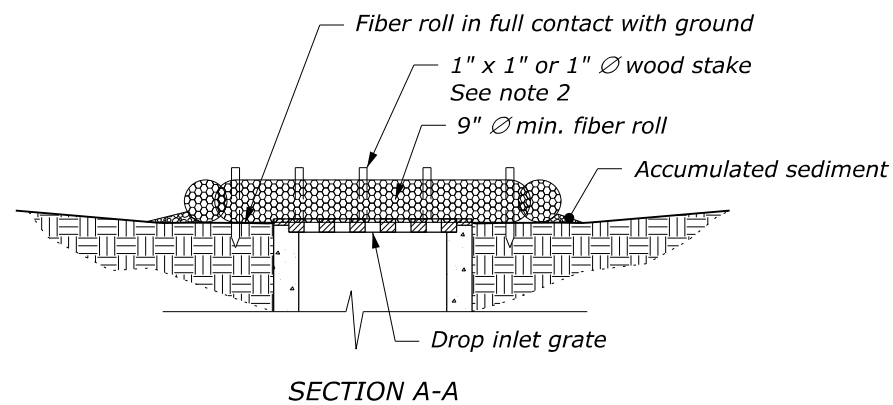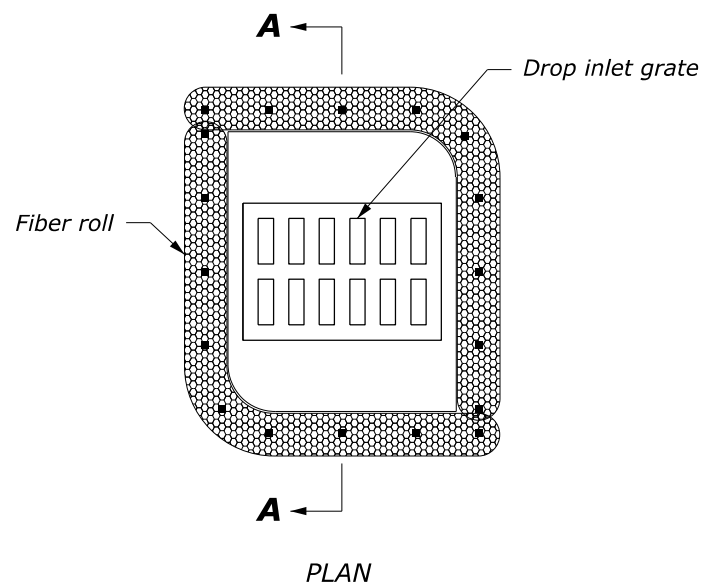
FIBER ROLL
DROP INLET PROTECTION (TYPE A)

Back of curb

Face of curb

Drop inlet

Flow

Flow

Spillway 1-bag high

Gravel filled bags 2-bags high See note 5

PLAN VIEW - INLET ON GRADE

Gravel filled bags (stacked tightly)

Spillway (beyond)

Drop inlet grate

Flow

Accumulated sediment

Catch basin

SECTION B-B
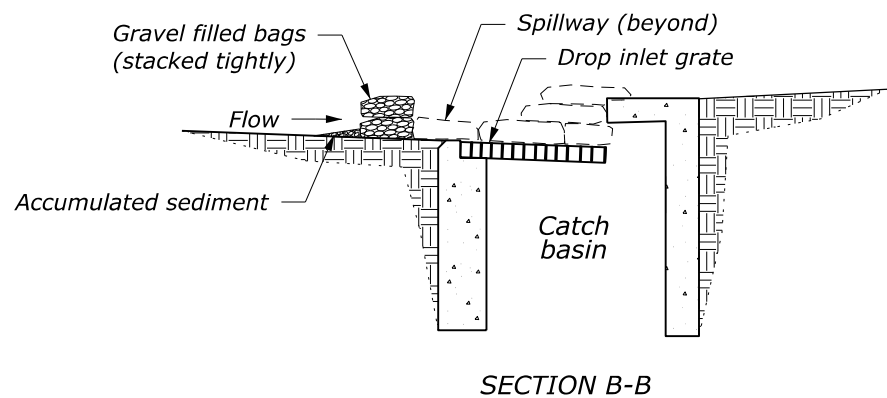
GRAVEL BAG BERM
DROP INLET PROTECTION (TYPE B)

Drop inlet grate

Dump straps (2 each)

Lifting loops (2 each)

Prefabricated filter insert

Expansion restraint

Drop inlet

PREFABRICATED FILTER INSERT
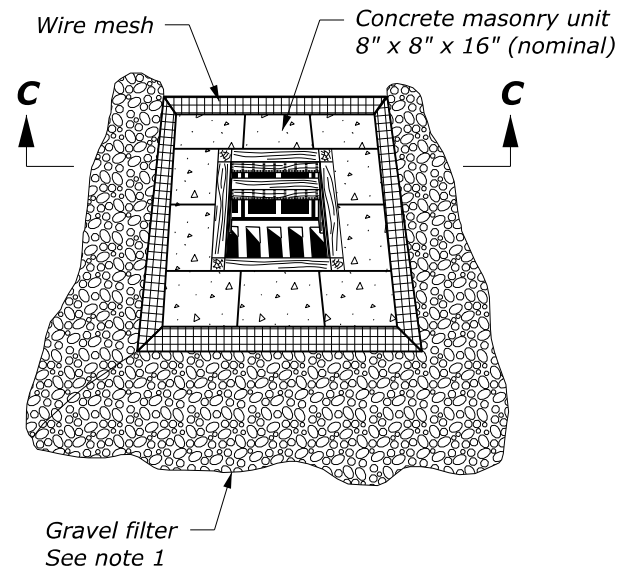**DROP INLET PROTECTION (TYPE C)**

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

CFLHD DETAIL

TEMPORARY INLET PROTECTION

Sheet 1 of 2

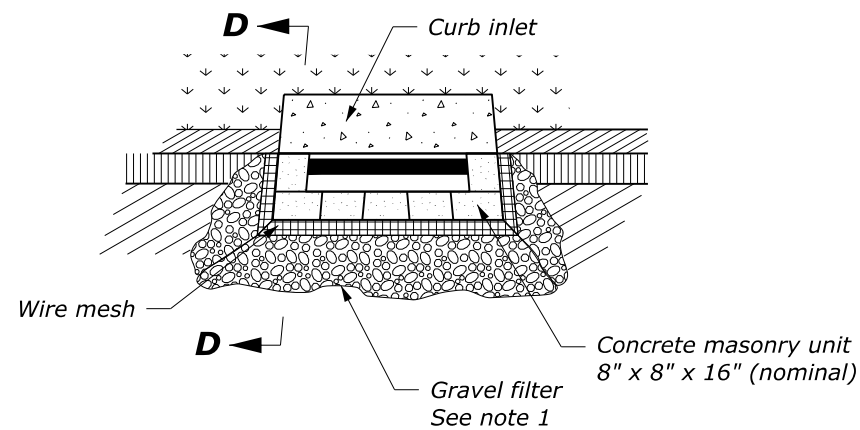| DETAIL APPROVED FOR USE	DETAIL
REVISED: 08/2014 09/2020	C157-51

NO SCALE

NOTE:

1. For Type D1 and D2 gravel filter, use clean, silt-free coarse aggregate between 2" and 3" in diameter. Use wire mesh with 1/2" x 1/2" openings.

2. Inlet protection device (Type E) may consist of continuous filter tubing filled with gravel or other prefabricated filter material. Install device according to manufacturer's recommendations.
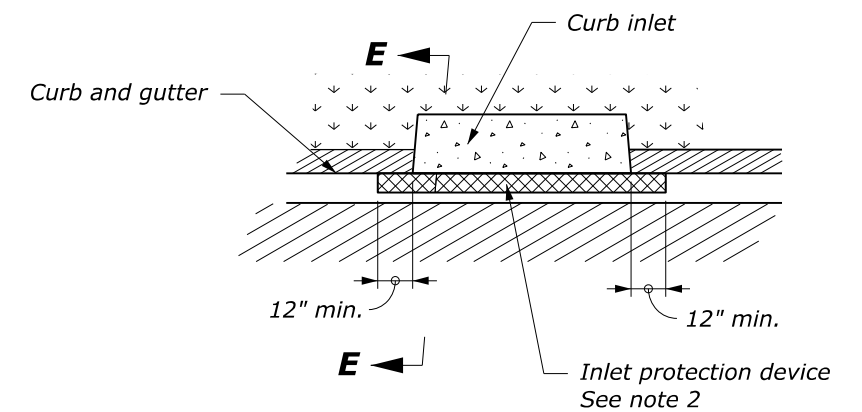
3. Dimensions may vary to fit field conditions.

Wire mesh

Concrete masonry unit 8" x 8" x 16" (nominal)

C   C

Gravel filter See note 1

Drop inlet with grate

Filtered water

Overflow

Sediment laden runoff

2" x 2" (nominal) wood frame

2"

Wire mesh See note 1

16"

9"

18"

Filtered water

Accumulated sediment

SECTION C-C

BLOCK AND GRAVEL DROP INLET PROTECTION (TYPE D1)

Curb inlet

D   D

Wire mesh

Gravel filter See note 1

Concrete masonry unit 8" x 8" x 16" (nominal)

Sediment laden runoff

Overflow

Accumulated sediment

Wire mesh See note 1

2" x 4" (nominal) wood stud used to retain concrete blocks

Curb inlet

SECTION D-D

BLOCK AND GRAVEL DROP INLET PROTECTION (TYPE D2)

Curb and gutter

E   Curb inlet

E

12" min.   12" min.

Inlet protection device See note 2

PLAN

Accumulated sediment

Filtered water

Inlet protection device See note 2
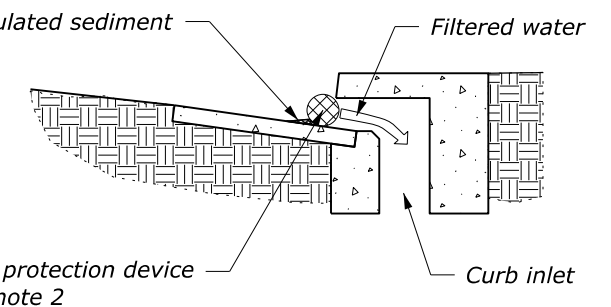
Curb inlet

SECTION E-E

INLET PROTECTION DEVICE CURB INLET PROTECTION (TYPE E)
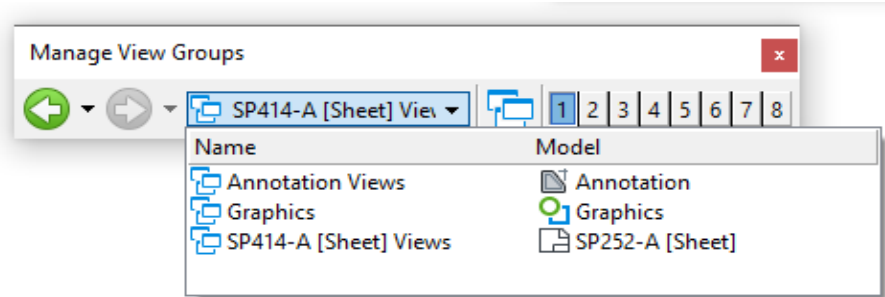
NO SCALE

Notes to the Designer
Updated September 2020
Temporary Inlet Protection

General Information
- Printing should be done from the **[Sheet]** View model

Manage View Groups									☒

Name	Model
Annotation Views	Annotation
Graphics	Graphics
SP414-A [Sheet] Views	SP252-A [Sheet]

- **Appropriate Applications**

  Storm drain inlet protection is used to detain and/or filter sediment-laden runoff. Appropriate applications include:

  • Where sediment-laden runoff may enter an inlet;
  • Where ponding will not encroach into travel way; and
  • Where the drainage area is 1 acre or less.

INLET PROTECTION*

Site Conditions Where Types are Appropriate	A	B	C	D1	D2	E
Area Drain, Soil	Y	N	Y	Y	N	N
Area Drain, Pavement	N	N	Y	Y	N	N
Grate inlet along curb, Soil	Y	Y	Y	N	N	N
Grate inlet along curb, Pavement	N	Y	Y	N	N	N
Curb opening inlet, Soil	N	Y	N	N	Y	Y
Curb opening inlet, Pavement	N	Y	N	N	Y	Y

*Note: Table shown for information only. Designer will not specify a type of drop inlet protection to use – will leave it up to the Contractor.

- **Limitations**

  Sediment removal may be difficult in high-flow conditions or if runoff is heavily sediment laden. May need to use other on-site sediment trapping techniques (e.g. check daams, wattles at back of curb, etc) in conjunction with inlet protection.
  Could be an obstacle to traffic (could be within clear zone)

Applicable SCRs
- None

Typical Pay Item Used
  We will leave it up to the Contractor to select the specific type of drop inlet protection to use on the project.
- Include both plan sheets and a generic pay item in the PS&E.
- 15706-1000 Soil erosion control, inlet protection [EA]

Updates
- **September 2020**
  - Updated for OpenRoads Designer
  - Updated geotextile references