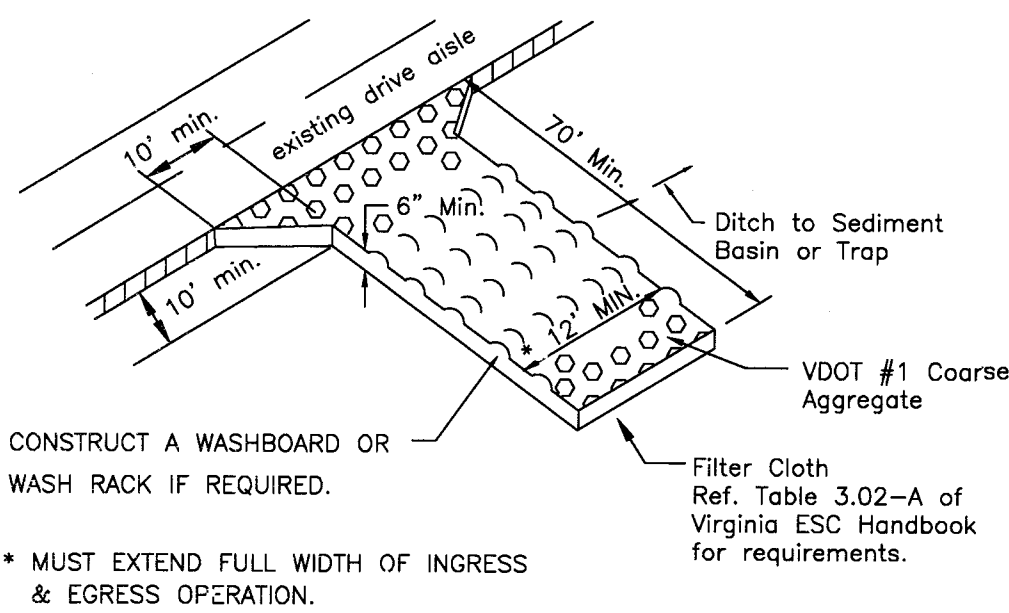
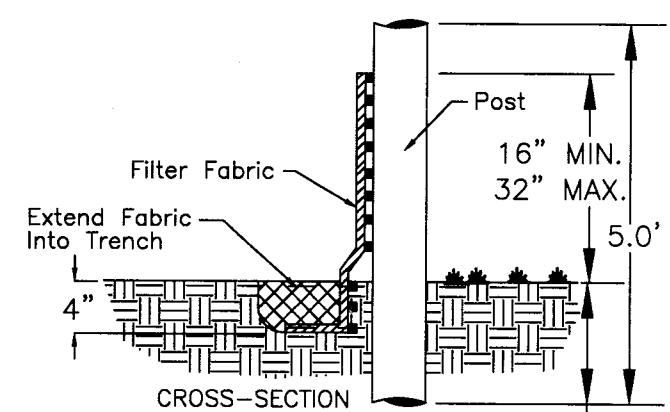


E&SC CONSTRUCTION SEQUENCE:

1. THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS A FIRST STEP IN THE PROCESS. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED WHERE SHOWN UNTIL SUCH TIME THAT THE CONSTRUCTION ENTRANCE IS NO LONGER NEEDED AND THE EXISTING STONE BASE OR ASPHALT PAVING/CONCRETE ENTRANCE HAS BEEN INSTALLED. THE CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL SUCH TIME THAT THE INSPECTOR APPROVES ITS REMOVAL.
2. SILT FENCE AND ANY PERIMETER CONSTRUCTION FENCING SHALL BE INSTALLED AT THIS TIME TO PREVENT SEDIMENT LADEN RUNOFF FROM EXITING THE SITE. INLET PROTECTION SHALL BE PROVIDED ON THE EXISTING INLET AS SHOWN.
3. G.C. SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT ANY 'MUD TRACKING' ON THE ADJACENT PUBLIC RIGHT OF WAY. GRADING OPERATIONS SHALL TAKE PLACE AT THIS TIME ON-SITE.
4. G.C. SHALL UTILIZE A CONCRETE WASHOUT AREA AS REQUIRED FOR THE PROJECT ONCE CONSTRUCTION PROGRESSES TO BUILDING OR SITE CONCRETE INSTALLATION.
5. INSTALL SANITARY SEWER AND WATERLINE IMPROVEMENTS AS SHOWN ON THE PLAN AND PROVIDE DEWATERING AS REQUIRED FOR THE CONSTRUCTION.
6. ALL OTHER SITE UTILITIES SHALL BE INSTALLED AT THIS TIME INCLUDING ELECTRICAL, LIGHTING, GAS, CONDUIT, ETC.
7. CURB, CONCRETE FLUME, STREET TREES, SIDEWALK, AND LANDSCAPING SHALL BE INSTALLED AT THIS TIME. OUTLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER THE CURB AND GUTTER INSTALLATION TO ENSURE PROTECTION OF THE DOWNSTREAM DITCHLINE.
8. PERMANENT SEEDING OR MULCHING SHALL BE APPLIED TO ALL LANDSCAPE AREAS AND AREAS NOT RECEIVING HARDSCAPE ELEMENTS.
9. AFTER STABILIZATION OF ALL UPSTREAM AREAS, THE INLET PROTECTION AND SILT FENCE MAY BE REMOVED WITH CITY OF ROANOKE INSPECTOR APPROVAL.
10. CITY OF ROANOKE SHALL INSPECT/APPROVE REMOVAL OF REQUIRED MEASURES PRIOR TO ESC MEASURE REMOVAL.

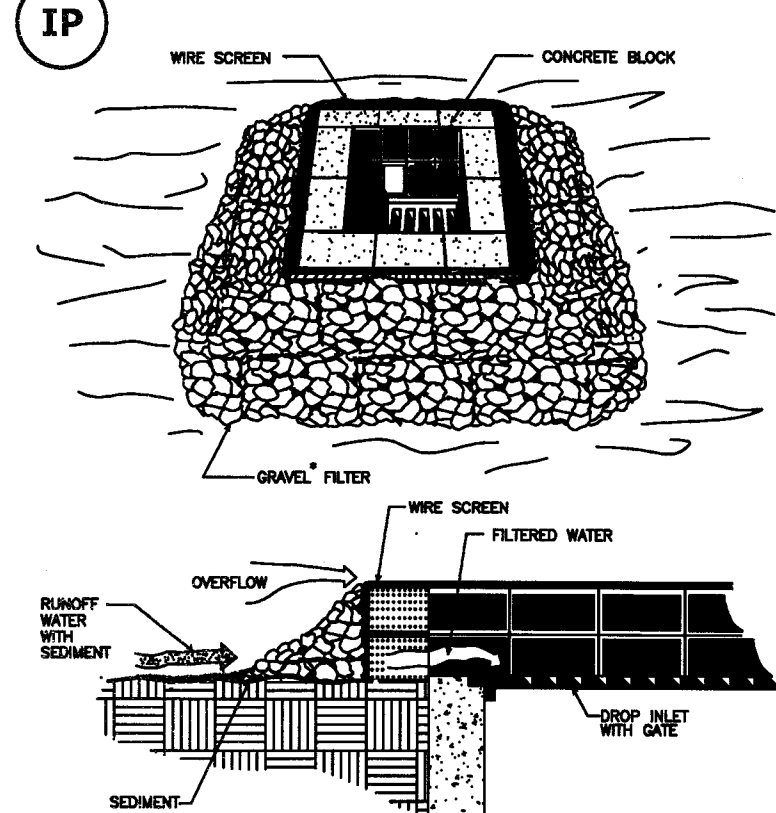


CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



SF CONSTRUCTION OF A SILT FENCE
EROSION AND SEDIMENT CONTROL STANDARD - 3.05

BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER



SOURCE: VA. DSWC PLATE 3.07-3

SCALE: 1" = 20'

ex. S.S. MANHOLE A
TOP = 1009.03'
8" PVC INV. = 1003.24'
8" PVC INV. = 1003.04'
SHELF = 1003.74'

ex. FIRE HYDRANT
±200' FROM PROPERTY CORNER
AUTHORITY ID: 11129
137 PSI STATIC PRESSURE
124 PSI RESIDUAL
5,687 GPM @ 20 PSI

18" RCP INV. 1005.30

2.5 C.Y. OF CLASS 1 RIP RAP
18" RCP INV. 1004.55

ex. S.S. MANHOLE B
TOP = 1004.45'
12" INV. = 991.45'
12" INV. = 991.55'
8" PVC INV. KFC = 994.45'
8" PVC INV. BANK = 1002.65' AT DROP
8" PVC INV. DENNY'S = 996.15'
8" DIP INV. = 999.57'
SHELF = 992.05'

15" RCP INV. 1004.55 (TO REMAIN)

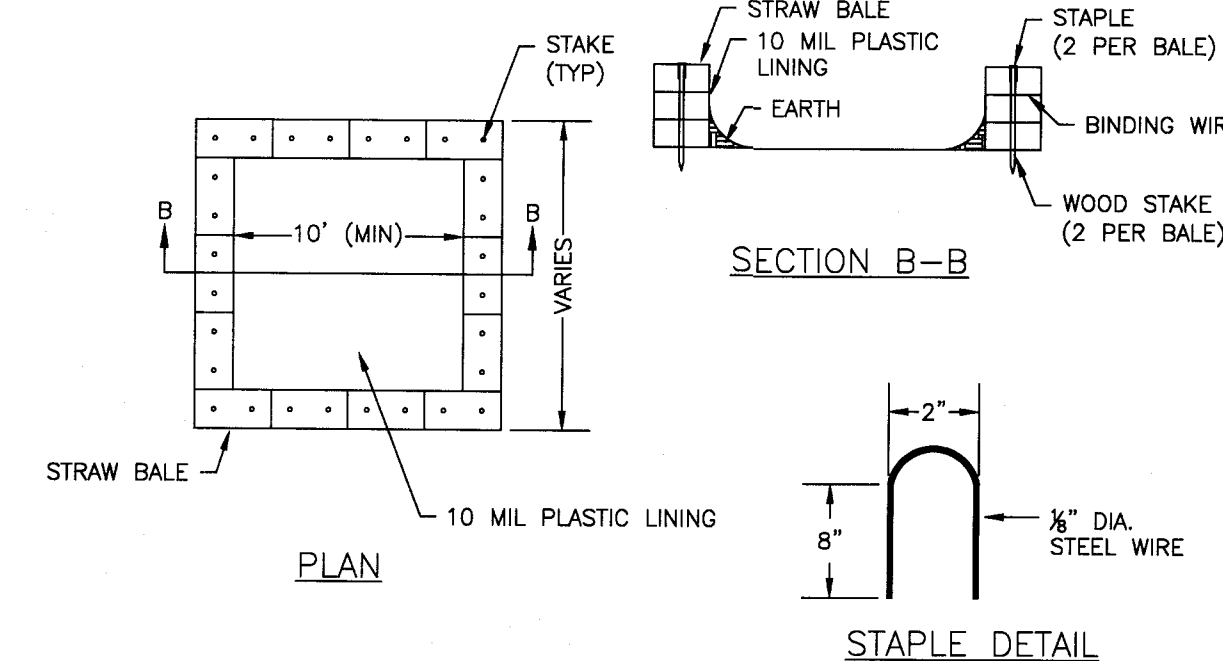
ex. drop inlet
TOP: 1006.10
INV: 1004.75 (TO REMAIN)

GRATE INLET IN CONC.
TOP = 1003.90'

ex. S.S. MANHOLE C
TOP = 1004.24'
12" INV. = 990.34'
12" INV. = 990.32'
SHELF = 990.86'

E&SC MEASURES

3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE
3.05	SILT FENCE	SF
3.07	STORM DRAIN INLET PROTECTION	IP
3.18	OUTLET PROTECTION	OP
3.31	TEMPORARY SEEDING	TS
3.32	PERMANENT SEEDING	PS
3.35	MULCHING	MU
3.36	SOIL STABILIZATION BLANKETS & MATTING	B/M



- GENERAL NOTES:**
1. ACTUAL SIZE TO BE DETERMINED IN FIELD. A MINIMUM OF 10' WIDE BY 10' LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE. A MINIMUM OF 12" FREEBOARD SHALL BE INCLUDED.
 2. THE CONCRETE WASHOUT SHALL NOT BE PLACED WITHIN 50' OF STORM DRAINS.
 3. EXCESS AND SLUMP TEST SOLIDS SHALL BE PLACED ON PLASTIC LINER UNTIL HARDENED. CONTRACTOR MAY CONSIDER INSTALLING WIRE OR REBAR HOOD FOR LATER PICKUP REMOVAL.
 4. INSPECTORS SHALL USE THE WASHOUT FACILITY OR PLASTIC FOR CLEANING OF THEIR TOOLS.
- MAINTENANCE NOTES:**
1. CHECK ALL CONCRETE WASHOUT FACILITIES DAILY TO DETERMINE IF THEY HAVE BEEN FILLED TO 75% CAPACITY. THE FACILITY SHALL BE CLEANED OUT OR CHANGED WHEN 75% FULL.
 2. INSPECT LINERS DAILY TO ENSURE THAT LINERS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES. LINERS SHALL BE REPLACED IF THERE ARE HOLES OR TEARS OBSERVED.
 3. CONCRETE WASTE SHALL BE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN. THE HARDENED CONCRETE SHALL BE BROKEN UP AND DISPOSED OF OFFSITE PER APPLICABLE VA. DEQ RULES AND REGULATIONS. LIQUIDS SHALL NOT BE DISCHARGED DIRECTLY INTO WATERWAYS, STORM DRAINS, SWALES, OR DIRECTLY ONTO THE GROUND.
 4. REMOVE LIQUIDS OR COVER STRUCTURE BEFORE PREDICTED STORMS TO PREVENT OVERFLOWS.
 5. INSTALL A NEW PLASTIC LINER AFTER EVERY CLEANING.



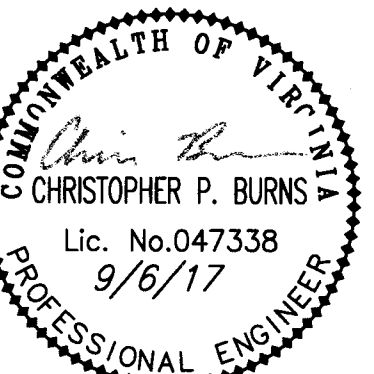
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Balzer and Associates, Inc.

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Roanoke, VA 24018
540-772-9580
FAX 540-772-8050



WAFFLE HOUSE
3407 ORANGE AVENUE
E.S.C. PLAN
CITY OF ROANOKE, VIRGINIA

DRAWN BY BTC
DESIGNED BY BTC
CHECKED BY CPB
DATE 6/28/2017
SCALE 1"=20'

REVISIONS:
8/16/2017
9/6/2017

SHEET NO.

C5

JOB NO. 04170032.00