SCALE:
0 10 20

EROSION CONTROL NOTES

1. ALL EROSION CONTROL MEASURES, EQUIPMENT, AND MATERIAL SHALL BE PER CITY OF ALAMEDA EROSION CONTROL STANDARDS.
2. EROSION CONTROL IS REQUIRED AT ALL TIMES.
3. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
4. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE (5) DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
5. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES AND DE-SILTING BASINS, ETC.
6. INFORMATION ON THIS PLAN IS FOR EROSION CONTROL ONLY. ALL OTHER INFORMATION IS SUBJECT TO CHANGE.
7. CONFORMANCE WITH THE REQUIREMENTS OF THIS PLAN SHALL IN NO WAY RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITIES TO THIS SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT.
8. FILL AREAS WHILE BEING BROUGHT UP TO GRADE AND DURING PERIODS OF COMPLETION PRIOR TO FINAL GRADE, SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND THE SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THESE MEASURES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO: TEMPORARY DOWN-DRAINS, EITHER IN THE FORM OF PIPES OR PAVED DITCHES WHICH PROTECT CUT-FILL AREAS; GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL SLOPES BY SLOPE DITCHES TO DE-SILT RUNOFF; PROTECTION SUCH AS SAND BAGS AROUND INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF SLOPES SHALL BE CONSTRUCTED AND MAINTAINED ON THOSE FILL AREAS WHERE EARTHWORK OPERATIONS ARE NOT IN PROGRESS.
9. THE PERMIT AND RESOURCES MANAGEMENT DEPARTMENT APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER, AND THE OWNER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND/OR OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE PERMIT AND RESOURCES MANAGEMENT DEPARTMENT FOR APPROVAL.
10. ALL DISTURBED SOIL SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER GRADING HAS OCCURRED.

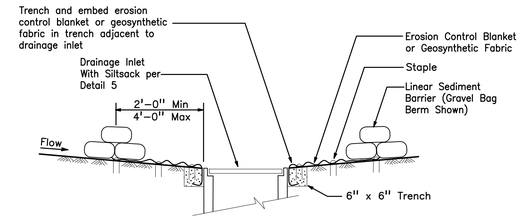
LEGEND

- CONCENTRATED FLOW
- GRAVEL BAGS
- SHEET FLOW
- (1) INSTALL GRAVEL BAG BERM PER DETAIL 1, THIS SHEET

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

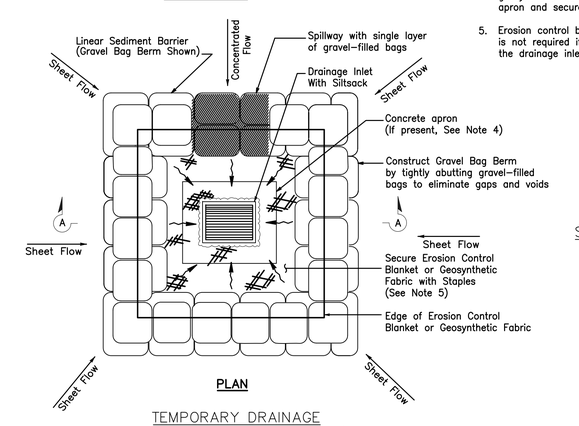
For slope of less than 1%, install barriers only if erosion/sediment is prevalent



SECTION A-A

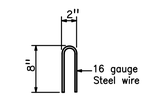
NOTES:

1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL

1	GRAVEL BAG BERM
N.T.S.	RE:

Stantec Consulting Inc.
1016 12th Street
Modesto, CA U.S.A.
95354
Tel. 209.521.8986
Fax. 209.521.9045
www.stantec.com

REGISTERED PROFESSIONAL ENGINEER MICHAEL JAREDDAVIS CIVIL STATE OF CALIFORNIA 06-30-14

BENCH MARK	REFERENCE

NO.	REVISED	BY	APP.

DESIGNED M. HAYES
DRAWN C.BARKMAN
CHECKED J.BHATTACHARYA
DATE 06-19-13 SCALE 1"=10'

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT

FERNSIDE BLVD/ VERSAILLES AVE INTERSECTION IMPROVEMENT PROJECT

APPROVED BY
CITY ENGINEER
DATE
SHEET 3 OF 4
DWG. C-401
CASE

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