



City of Santa Clarita
Development Services Division
23920 Valencia Boulevard, Suite 300
Santa Clarita, California 91355
(661) 255-4942

GRADING CORRECTION SHEET

<u>MC#</u>	<u>Assessor's Parcel No.</u>	<u>Tract / Parcel No. / Address</u>	<u>Lot No's.</u>
Master Case No.			
<u>ENG</u>	<u>GRA</u>	<u>Volume (cut or fill, whichever is greater, plus over-ex)</u>	
Project No.	Case No.		
<u>Owner</u>	<u>Telephone No.</u>	<u>e-mail address</u>	<u>Plan Check No. / Date</u>

			1
<u>Design Engineer</u>	<u>Telephone No.</u>	<u>e-mail address</u>	2
			3
<u>Plan Checker</u>	<u>Telephone No.</u>	<u>e-mail address</u>	4

A. GENERAL INFORMATION

1. Prior to issuance of a Grading Permit, the plans for the proposed grading require the information and corrections indicated by the circled items below.
2. The City's approval of plans does not permit the violation of building codes, ordinances or state laws.
3. This Grading Correction Sheet must be returned with the red-lined check print and two sets of revised plans when corrections have been made.
4. Counter consultations are not guaranteed unless scheduled in advance with the Plan Checker.
5. The numbers following the instructions below refer to the latest edition of the City's Unified Development Code, (e.g. 17.24.010 U.D.C.)
6. The Plan Checker must be notified a minimum of 48 hours in advance of the time and date of the Pre-Grading Meeting.
7. Equipment must not be brought to the site and no work may commence without approval of the Development Services Division.
8. Forms are available on the City's website at www.santa-clarita.com/cityhall/pw/development/forms.asp
9. Storm Water Quality Management packets (which determine criteria for SWPPP and SUSMP) may be obtained at the Engineering Counter.

B. INSTRUCTIONS

1. Post a Grading Bond in the amount of \$_____ . (17.24.010 U.D.C.)
2. Submit payment for the Bond Processing Fee of \$_____.
3. Submit payment for the Grading Plan Check Fee of \$_____.
4. Submit payment for the Grading Inspection Fee of \$_____.
5. Submit payment for the Document Imaging Fee of \$_____.
6. Provide evidence that the site is a legal building site. Submit a copy of the recorded Final Map or Assessor's Map.
7. Submit the Acknowledgment to Employ Consultants Form regarding the employment of all technical consultants.
8. Submit the Dust Control Compliance Statement. This statement must be notarized.

C. CITY APPROVALS

Planning (661) 255-4330

1. Obtain preliminary / final Irrigation and Landscape Plan approval.
2. Obtain an approved Plot Plan for importing or exporting between 10,000 cubic yards and 100,000 cubic yards of earth over City roads. The point(s) of access to public streets for export or import shall be shown on the Grading Plan and shall be located as approved by the Director of Community Development. (17.26.010 U.D.C.)
3. Obtain a Conditional Use Permit for more than 100,000 cubic yards of earth materials moved within site or tract boundaries, whether filed as one permit, or the cumulative total of more than one permit, on the same lot or parcel of land within a one-year period. (Section 7006(b) with reference to Section 22.20.10 of the Planning and Zoning Code.)
4. Obtain Hillside Development Review for grading over 100 cubic yards in a hillside area.
5. Obtain an Oak Tree Permit for oak trees located on and within two hundred feet of the project.

- For single lot grading plans: An environmental assessment is necessary to determine the type of documentation needed to satisfy the requirements of the California Environmental Quality Act (CEQA). Complete and submit an Initial Study Questionnaire.

Environmental Services (661) 284-1422

- Obtain approval of an Urban Storm Water Mitigation Plan (SUSMP).
- If the project site is 1 acre or more, obtain approval of a Storm Water Pollution Prevention Plan (SWPPP).

Building & Safety (661) 255-4935

- Obtain a permit for all retaining walls shown on the Grading Plans.

Development Services (661) 255-4993

- If the project site is less than 1 acre, and if construction will take place between November 1 and April 15, submit an Erosion Control Plan for review and approval.
- A revision to the Street Plans is required for _____.
- A revision to the Street Light Plans is required for _____.
- A revision to the Sewer Plan is required for _____.
- A revision to the Storm Drain Plans is required for _____.
- An Easement Document is required for _____.
- A Vacation Document is required for _____.

Note: An Encroachment Permit is required for 1) all work within the public right-of-way and, 2) publicly maintained sewer and storm drain systems on private property.

D. OUTSIDE AGENCY APPROVALS

Los Angeles County

- Submit the original and one copy of the Green Sheet from LACDPW for publicly maintained storm drains.
- Submit a copy of the Hydrology Study stamped 'Approved' by LACDPW.

Army Corp of Engineers and Fish & Game

- Obtain approval for disturbance of any resource identified on a United States Geological Survey map as a "blue line" watercourse or any waterway otherwise identified as a significant resource.

Fire Department

- Obtain a permit to operate in Fire Zone No. 4. Call the Fire Prevention Unit at (661) 286-8821 and you will be directed to the appropriate jurisdictional fire station to obtain a permit.

Regional Water Quality Control Board (RWQCB)

- If the project site is 1 acre or more, submit a Notice of Intent (NOI) to acquire a Waste Discharge Identification (WDID) number.

E. GRADING

General

- Submit a copy of the Final Conditions of Approval.
- Submit a copy of the Tentative Tract Map approved by the Planning Division (with Planning's approval stamp).
- Submit a copy of the Site Plan approved by the Planning Division (with Planning's approval stamp).
- Submit a copy of the Oak Tree Report.
- The project site is in Flood Zone: A AO B C ____ No action is required ____ Contact Plan Checker for requirements.
- Submit earthwork calculations verifying that the yardage shown on the plan is correct. The calculations shall include cut, fill and over-excavation.
- Grading plans can not be approved until the hydrology report and storm drain plans have been approved.

Soils / Geotechnical Investigation Report

- Geology and Soils Reports must be accepted prior to approval of the Grading Plan.
- Submit three copies of the Soils Report. All copies must be wet stamped and signed by the Geologist and Geotechnical Engineer of record.
- The report must indicate the date the report was prepared.
- The report must be less than one year old.
- The report must be based upon the proposed grading plan.
- The report shall provide information on the nature, distribution, physical and engineering properties of the soils on-site and/or to be used as fill, and shall include recommendations on grading procedures.
- The Geotechnical Report must comment on the depth of cut and/or fill, and the depth and limits of over-excavation.

8. All recommendations in the Soils Reports must be incorporated into the Grading Plan.
9. Properties within, but not limited to, the seismic hazard zone shall be evaluated for potential seismically induced liquefaction, soil instability, and earthquake induced landslides during the course of an investigation. (17.23.010(I) U.D.C.)
10. Submit the final (City accepted) Soils Report and all addendums in pdf format.

Grading Plan Requirements

1. Grading plans shall be 24- by 36-inch standard size.
2. The City's Grading Approval Signature Block, as shown on Page 8, must be plotted in the lower right corner of every sheet.
3. A revision block, as shown on Page 8, must be included on every sheet.
4. Do not use a triangle as the shape for construction notes; a triangle is the symbols used for revisions to plans after they have been approved by the City.
5. City approval of grading plans will only be given on original plans produced on 6-mil thick mylar with indigo ink, photo mylar, or machine plotted.
6. After City approval of the grading plans, the mylars are kept at City Hall.
7. Grading plans must be prepared by a registered civil engineer. The engineer must sign and stamp every sheet of the grading plans prior to City approval. (Note: Architects may prepare grading plans for residential development on flat lots per Section XXXX of architectural code.)
8. The geologist/geotechnical engineer must sign and stamp every sheet of the grading plans prior to City approval.
9. The scale to be used for grading plans shall be between 1" = 20' and 1" = 40'.
10. Contour intervals shall be 5' maximum.

The following information shall be shown on the Grading Plans (17.23.010(B) U.D.C.)

Items 1 through 12 below shall be shown on Sheet 1

1. Vicinity sketch or other means of adequately indicating the site location (include north arrow).
2. Standard Grading Notes and SWPPP Notes (see page 5).
3. Benchmark information. (Note: Grading plans must be prepared using the adjusted 2003 B.M.)
4. Source and date of the contours for the existing topography.
5. Quantity of material to be cut, filled, and over-excavated.
6. Quantity of material to be imported to or exported from the site.
7. Estimated start and finish dates for the work to be covered by the grading permit.
8. Name, address and telephone number of the Project Geologist / Geotechnical Engineer.
9. Title and date of the soils report(s) and addendums to the soils report(s).
10. Index of sheets.
11. Statement of who will be responsible for slope maintenance including drainage devices. (Note: This information may be required to be recorded.) (17.28.020(D) U.D.C.)
12. For projects that are under one acre, add the following statement under the Stormwater Pollution Plan notes:

As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name _____ Signature _____ Date _____
 (Owner or authorized agent of the owner) (Owner or authorized agent of the owner)

13. North arrow and scale, on every sheet as applicable.
14. Cross sections of streets that are within the site.
15. Cross sections of streets that are adjoining the site. (Note: This is required even if no work is to be done on the adjoining streets).
16. Geologic information and cross sections.
17. Boundary lines of the property on which the work is to be performed. The boundary lines shall be clearly labeled.
18. Each lot or parcel of land into which the site is proposed to be divided.
19. Proposed uses of each lot or parcel of land.
20. Location of any existing or proposed structures on the site.
21. Location of any buildings or structures on adjacent land which are within fifteen feet of the property line.
22. Locations and protected zones of all oak trees located on the project site and within 200 feet.
23. Accurate contours showing the topography of the existing ground for the entire site.
24. Show a sufficient area adjacent to the property to clearly show drainage patterns.

25. Finish contours for proposed grading.
26. Limits of keyways and buttress fills.
27. Location of rock disposal areas and any other special features.
28. Any fill areas that are uncertified must be clearly outlined on the plans and the following note must appear prominently: Fills are uncertified and unsuitable for the support of structure. (Note: An RUA must be recorded for these areas.)
29. Show and label all public and private easements (existing and proposed).
30. A Letter of Permission is required for grading over all easements.
31. A notarized Letter of Permission is required for grading outside of the property lines / tract boundary. (Note: A title report may be required to be submitted to verify owner of property)
32. A notarized Acceptance of Drainage Form is required if drainage is being diverted to an adjacent property. This document must be recorded. (Note: A title report may be required to be submitted to verify owner of property)
33. The following Conditions of Approval have not been addressed: _____
34. The Grading Plan does not conform to the Approved Site Plan / Tentative Map. Either revise the Grading plan to match the approved plan or submit a revised Site Plan / Tentative Map with Planning's approval stamp.
35. For single lot grading plans: Provide a statement signed by the owner or engineer verifying that the owner is aware that fire department access road requirements will be determined prior to issuance of building permits. Add the following note to the plan: Fire department access road requirements cannot be determined until a building permit application is filed.

General Slope Requirements

1. Show top and toe of fill slopes to scale.
2. Specify proposed steepness of cut and fill slopes on plan (ratio of horizontal to vertical distance).
3. Indicate cut and/or fill slope areas by shading.
4. Show location of cut/fill lines and daylight lines.
5. Show top of slope and toe of slope setbacks from property lines and building locations which conform to minimum requirements of Section 17.27.040 U.D.C.
6. For slopes that are higher than 5', the toe of slope must be set back 2' from the back of walk or a slough wall is required. Slough walls shall be two blocks high and located entirely outside of the public right of way (including the wall footing). A drainage swale is required behind the slough wall.
7. Graded slopes may not extend into the public right-of-way.

Fill Slope Requirements

1. Fill slopes are shown with a surface gradient steeper than 2:1. The registered Geotechnical Engineer of record shall submit satisfactory soil test data and engineering calculations to substantiate the stability of all such slopes and slope surfaces under conditions of saturation. (17.27.020(C) U.D.C.)
2. Fill placed over existing terrain steeper than 5:1 must be supported on horizontal benches cut into bedrock or other competent material. Show detail and dimensions of such benching to be provided. (17.27.020(B) U.D.C.) The bench under the toe must be at least 10 feet wide or as recommended in the soils report.
3. Show toe of fill slope setback at least six feet horizontally from the top of an existing slope steeper than 3:1. A lesser setback may be approved if recommended by the Soil Engineer or Engineering Geologist and approved by the City Engineer. (17.27.020(F) U.D.C.)
4. Combination fill/over-cut slopes cannot be approved unless specifically recommended by the Geotechnical Engineer and Geologist and a cross-sectional detail of each slope is shown on the plan.
5. No fill may toe out on slopes steeper than 2:1. (17.27.020(F) U.D.C.)
6. Show subdrains under all fills to be placed in natural drainage courses unless the omission of such drains is specifically recommended by the Geotechnical Engineer and is acceptable to the City Engineer.
7. Provide a detail of subdrain construction and materials as recommended by the Geotechnical Engineer. (17.27.020(B) U.D.C.) The outlet should be embedded in concrete to protect the outlet.
8. Show location and cross-sectional detail of all buttress fills, blanket fills (seals) and/or other similar protective measures recommended by the project Geologist or Geotechnical Engineer.

General Drainage Requirements

1. Show proposed drainage pattern of graded areas.
2. Drainage is not permitted to sheet over graded slopes steeper than 5:1.
3. Concentrated drainage is not permitted to discharge onto any graded slope.
4. All drainage devices which are to be constructed under separate plans must be referenced to those plans.
5. Easements for publicly maintained drainage systems must be outlined on the grading plan.
6. Access shall be provided to allow maintenance of drainage devices.

7. All cross lot drainage devices not publicly maintained shall be maintained by an entity such as a homeowners' association. Note the entity on the plan. (17.28.010(3) U.D.C.)
8. For privately maintained drainage systems, show details or reference standard drawings for catch basins, inlet structures and outlet structures.
9. Provide a berm, swale or other device at the top of all cut and fill slopes to prevent surface waters from overflowing onto the face of slopes steeper than 5:1. (17.28.010 U.D.C.)
10. Berms used for slope protection shall be not less than 12 inches above the level of the pad and shall slope back at least four feet from the top of the slope. (17.28.010(F) U.D.C.)
11. Show paved interceptor drains along the top of all cut slopes where the height of the cut is greater than five feet measured vertically.
12. Interceptor drains shall be paved with a minimum of three inches of concrete or gunite and reinforced as required for drainage terraces. They shall have a minimum depth of 12 inches and a minimum width of 30 inches measured horizontally across the drain. The slope of the drain shall be approved by the City Engineer. (17.28.010(H) U.D.C.)
13. Access is required at all points of closed drains where the grade changes from a steep to a relatively flat slope. Detail the access device.
14. Show riprap or a similar energy dissipater for drainage devices that discharge onto natural ground.
15. Show the location, size and type of all BMP devices, including stenciling, as shown on the approved SUSMP plan.

Lot Drainage

1. Show the finished elevations at the corners of the lot pad (building site) such that the pad area will have a minimum slope of two percent toward the intended drainage outlet. (17.28.010(C) U.D.C.)
2. Show the graded swale high point elevation and swale elevations at proposed building corners. All graded swales must have a minimum of one percent slope towards the street or designed drainage outlet.
3. Show typical side swale detail for adjacent lots of the same elevation (plan view and cross-sections).
4. Show typical side swale detail for adjacent lots of different elevations (plan view and cross-sections).
5. Show detail of the method to be used in side swales when a stoop, fireplace, or other obstruction extends within five feet of the property line.

Terrace Drainage

1. Slopes steeper than 3:1 shall be provided with paved drainage terraces at vertical intervals of 25 feet for slopes over 30 feet high. Such terraces shall have a minimum width of eight feet (total horizontal distance) and depth of one foot at the flow line. (17.28.010(D and E) U.D.C.)
2. For slopes steeper than 3:1 and over 100 feet high, one drainage terrace near mid-height shall be not less than 20 feet in width. (17.28.010(D) U.D.C.)
3. Show flow line elevations of all drainage terraces at each change in grade and at approximate 100 foot intervals.
4. Terrace drains shall have a minimum slope of 5% and a maximum slope of 12%. There shall be no reduction in grade along the direction of flow unless it can be shown that the velocity of flow will be such that the slope debris will remain in suspension. (17.28.010(E) U.D.C.)
5. Drainage terraces must be paved with concrete or gunite not less than three inches thick reinforced with 6-inch X 6-inch No. 10 X No. 10 welded wire fabric or equivalent reinforcing centered in the concrete slab. Show detail. (17.28.010(E) U.D.C.)
6. The maximum length of terrace or swale that may contribute to any down drain is 300 feet. (17.28.010(E) U.D.C.)
7. Show locations, dimensions and details of splash walls.
8. Provide open down drains unless otherwise approved by the City Engineer.
9. Provide detail of transition structures for open drains where the grade changes from a steep to a relatively flat slope.

F. GRADING PLAN NOTES

The following notes shall be shown on Sheet 1 of the Grading Plans:

General Notes

1. A copy of the grading permit and approved grading plans must be in the possession of a responsible person and available at the site at all times.
2. Any modifications of, or changes to, approved grading plans must be approved by the City Engineer prior to implementation in the field.
3. All graded sites must have drainage swales, berms, and other drainage devices approved at the rough grading stage.
4. The Field Engineer must set drainage stakes for all drainage devices.
5. All storm drain work is to be done under continuous inspection by the Field Engineer. Weekly status reports shall be submitted by the Field Engineer to the Development Services Division.
6. Final grading must be approved before occupancy of buildings will be allowed.
7. Construction of the retaining wall(s) shown on these plans requires a permit from the Building and Safety Division.
8. Separate plans for temporary drainage and erosion control measures to be used during the rainy season must be submitted prior to October 1. The erosion control devices shown on said plans must be installed by no later than November 1 and maintained in operable condition until April 15 of the following year. (17.25.030 U.D.C.)

9. All subdrain outlets are to be surveyed for line and elevation. This must be shown on the as-built grading plan included in the final geotechnical and geology report.
10. The faces of cut and fill slopes shall be prepared and maintained to control erosion. This control must consist of jute netting and effective planting, or other devices satisfactory to the City Engineer. (17.28.020(A) U.D.C.)
11. A preventive program to protect the slopes from potential damage from burrowing rodents is required. Owner to inspect slopes periodically for evidence of burrowing rodents and at first evidence of their existence shall employ an exterminator for their removal. (17.28.020(E) U.D.C.)
12. Where necessary, check dams, cribbing, riprap, or other devices or methods shall be employed for erosion control. Also, jute netting shall be immediately installed on any slopes having a vertical height of seven feet or more and steeper than 3:1 (H:V) to minimize or control erosion problems.
13. Roof drainage must be diverted from graded slopes.
14. All construction and grading within Storm Drain easement to be done per Storm Drain plan.

Fill Notes

15. All fill shall be compacted to the following minimum relative compaction criteria:
 - a. 90 percent of maximum dry density within 40 feet below finish grade
 - b. 93 percent of maximum dry density deeper than 40 feet below finish grade, unless a lower relative compaction (not less than 90 percent of maximum dry density) is justified by the geotechnical engineer.

The relative compaction shall be determined by ASTM Soil Compaction Test D1557-91, where applicable; where not applicable a test acceptable to the City Engineer shall be used. (17.27.020(A) U.D.C.)

16. Field density shall be determined by a method acceptable to the City Engineer, however, a minimum of 10 percent of the required density tests shall be obtained by the Sand Cone Method (ASTM D1556). The required 10 percent by Sand Cone Method shall be uniformly distributed throughout the depths and limits of the fill.
17. Sufficient tests of the fill soils shall be made to determine the relative compaction of the fill in accordance with the following minimum guidelines:
 - a. One test for each two-foot vertical lift.
 - b. One test for each 1,000 cubic yards of material placed.
 - c. One test at the location of the final fill slope for each building site (lot) in each four-foot vertical lift or portion thereof.
 - d. One test in the vicinity of each building pad for each four-foot vertical lift or portion thereof.

Sufficient tests of fill soils shall be made to verify compliance of the soil properties with the design requirements including soil types and shear strengths. The results of such testing shall be included in the reports required by Section 17.29.020(C) U.D.C.

18. No fill shall be placed until stripping of vegetation, removal of unsuitable soils, and installation of subdrains (if any) have been inspected and approved by the Geotechnical Engineer. (17.27.020(B) U.D.C.)
19. No rock or similar material greater than 12 inches in diameter will be placed in the fill unless recommendations for such placement have been submitted by the Geotechnical Engineer and approved in advance by the City Engineer. (17.27.020(D) U.D.C.)
20. Continuous inspection by the Geotechnical Engineer or his responsible representative shall be provided during all fill placement and compaction operations where fills have a vertical height or depth greater than 30 feet or slope surface steeper than 2:1. (17.27.020(G) U.D.C.)
21. Continuous inspection by the Geotechnical Engineer or his responsible representative shall be provided during all subdrain installations. (17.27.020(B) U.D.C.)
22. Fill slopes in excess of 2:1 steepness ratio are to be constructed by the placement of soil at sufficient distance beyond the proposed finish slope to allow compaction equipment to be operated at the outer limits of the final slope surface. The excess fill is to be removed prior to completion of rough grading. (Other construction procedures may be used when it is demonstrated to the satisfaction of the City Engineer that the angle of slope, construction method and other factors will have equivalent effect).
23. The Geotechnical Engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to be satisfied that the work is being performed in accordance with the plan and applicable code requirements. (17.29.010(D) U.D.C.)
24. The grading contractor shall submit the statement required by Section 17.29.020 U.D.C. at the completion of rough grading.

Inspection Notes - Regular Grading Requirements

25. The permittee or his agent shall notify the Development Services Division at least one working day in advance of required inspections at following stages of the work:
 - a. Initial. When the site has been cleared of vegetation and unapproved fill and it has been scarified, benched or otherwise prepared for fill. No fill shall have been placed prior to this inspection.
 - b. Rough. When approximate final elevations have been established; drainage terraces, swales and berms installed at the top of the slopes; and the statements required in Section 17.29.020 U.D.C. have been received.
 - c. Final. When grading has been completed; all drainage devices installed; slope planting established, irrigation systems installed and the as-built plans, required statements, and reports have been submitted. (17.29.010(C) U.D.C.)

Engineered Grading Requirements

26. In addition to the inspection required by the Development Services Division for Regular Grading, reports and statements shall be submitted to the City Engineer in accordance with Section 17.29.020 U.D.C.

Agency Notes

27. Secure permission from the Development Services Division for construction or grading within street right-of-way.
28. Grading in future street right-of-way must be inspected by the City.
29. All work within the streambed and areas outlined on the grading plans shall conform to:
- Army Corp 404 Permit Number: _____
 - California Fish & Game Permit Number: _____
30. A Storm Water Pollution Prevention Plan must be prepared and a copy available for review at the project site at all times. All measures outlined in the project Stormwater Pollution Prevention Plan must be implemented throughout the duration of the construction phase of the project.

Geology and Soils Notes

31. All recommendations included in the consultant's soil and geology reports must be complied with and are a part of the grading specifications. (17.23.010(B) U.D.C.)
32. Grading operations must be conducted under periodic geologic inspection with monthly inspection reports to be submitted to the Development Services Division.
33. The Consulting Geologist must approve rough grading by final report prior to the approval by the City Engineer. The final report must include an as-built Geologic Map.

Planting and Irrigation Notes

34. All cut slopes over five feet and fill slopes over three feet shall be planted with an approved ground cover and provided with an irrigation system as soon as practical after rough grading. (17.28.020(B) U.D.C.)

Stormwater Pollution Plan Notes

1. Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
2. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses, or wind.
3. Stockpiles of earth and other construction-related materials must be protected from being transported from the site by the forces of wind or water.
4. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
5. Excess or waste concrete may not be washed into the public right-of-way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
6. Trash and construction-related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
7. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public right-of-way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
8. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
9. The following BMP's as outlined in, but not limited to, the "Best Management Practice Handbook, California Stormwater Quality Task Force, Sacramento, California, 1993," or the latest revised edition, may apply during the construction of this project (additional measures may be required if deemed appropriate by City inspectors):

Erosion Control

EC1 – Scheduling
 EC2 – Preservation of Existing Vegetation
 EC3 – Hydraulic Mulch
 EC4 – Hydroseeding
 EC5 – Soil Binders
 EC6 – Straw Mulch
 EC7 – Geotextiles & Mats
 EC8 – Wood Mulching
 EC9 – Earth Dikes and Drainage Swales
 EC10 – Velocity Dissipation Devices
 EC11 – Slope Drains

SE2 – Sediment Basin
 SE3 – Sediment Trap
 SE4 – Check Dam
 SE5 – Fiber Rolls
 SE6 – Gravel Bag Berm
 SE7 – Street Sweeping and Vacuuming
 SE8 – Sandbag Barrier
 SE9 – Straw Bale Barrier
 SE10 – Storm Drain Inlet Protection

Wind Erosion Control

WE1 – Wind Erosion Control

Temporary Sediment Control

SE1 – Silt Fence

Equipment Tracking Control

TC1 – Stabilized Construction Entrance/Exit

TC2 – Stabilized Construction Roadway
 TC3 – Entrance / Outlet Tire Wash

NS13 – Concrete Finishing
 NS14 – Material and Equipment Use
 NS15 – Demolition Adjacent to Water
 NS16 – Temporary Batch Plants

Non-Stormwater Management

NS1 – Water Conservation Practices
 NS2 – Dewatering Operations
 NS3 – Paving and Grinding Operations
 NS4 – Temporary Stream Crossing
 NS5 – Clear Water Diversion
 NS6 – Illicit Connection / Discharge
 NS7 – Potable Water / Irrigation
 NS8 – Vehicle and Equipment Cleaning
 NS9 – Vehicle and Equipment Fueling
 NS10 – Vehicle and Equipment Maintenance
 NS11 – Pile Driving Operations
 NS12 – Concrete Curing

Waste Management & Material Pollution Control

WM1 – Material Delivery and Storage
 WM2 – Material Use
 WM3 – Stockpile Management
 WM4 – Spill Prevention and Control
 WM5 – Solid Waste Management
 WM6 – Hazardous Waste Management
 WM7 – Contamination Soil Management
 WM8 – Concrete Waste Management
 WM9 – Sanitary / Septic Waste Management
 WM10 – Liquid Waste Management

CITY OF SANTA CLARITA
APPROVED
 FOR
 GRADING AND DRAINAGE
 UNDER DIVISION 3
 CHAPTER 17.20
 UNIFIED DEVELOPMENT CODE

BY: _____ DATE: _____

This set of plans and specifications **MUST** be kept on the job at all times. It is unlawful to make any changes or alternations on same without written permission from Development Services Division, City of Santa Clarita.

The stamping of these plans and specifications **SHALL NOT** be used as a substitute for permit or meant as an approval of any violation of the provisions of any City or County Ordinance or State Law.

No.	Revision	Revised by (Registered Engineer's Signature)	City Approval	Date