

EROSION CONTROL – TEMPORARY AND PERMANENT

1. THE WORK OF THIS PROJECT SHALL INCLUDE THE REQUIREMENTS OF THIS WATER POLLUTION CONTROL DRAWING.
2. THE CONTRACTOR SHALL COMPLY WITH ALL COUNTY OF SAN LUIS OBISPO, AND STATE OF CALIFORNIA WATER QUALITY CONTROL BOARD MEASURES AND THE REQUIREMENTS OF THIS EROSION CONTROL PLAN, AT A MINIMUM.
3. PROJECT STATISTICS:

A. TOTAL PROJECT AREA:	40.5 ACRES.
B. ANTICIPATED MAXIMUM AREA OF DISTURBANCE	38.9 ACRES.
C. PERCENT IMPERVIOUS BEFORE PROJECT:	1 %
D. PERCENT IMPERVIOUS AFTER PROJECT IS COMPLETE:	13 %
E. AVERAGE SITE SLOPES:	LESS THAN 20 %
4. THE SITE IS CURRENTLY SEMI-IMPROVED.
5. INTERMITTENT SEASONAL STREAMS EXIST WITHIN THE PROJECT SITE.
6. SITE ACCESS IS BY MEANS OF HIGHWAY 101 TO CA-211 EXIT, MERGE ONTO 6TH ST./CA-38/E CAMINO REAL TOWARD SANTA BARBARA, TURN RIGHT AT CA-38/STREDA AVE., CONTINUE TO FOLLOW CA-38 5.33 MILES TO THE LAS PLITAS SITE (6660 HIGHWAY 59/CULP CANYON HIGHWAY).
7. THE CONTRACTOR SHALL COMPLY WITH COUNTY OF SAN LUIS OBISPO REQUIREMENTS WITH REGARDS TO DUST CONTROL AND SOIL TRACKING. THIS RESPONSIBILITY EXTENDS OVER WEEKENDS, HOLIDAYS, AND ANY OTHER NON-WORK PERIODS UNTIL ALL EARTHWORK IS COMPLETE AND ALL PERMANENT EROSION AND DUST CONTROL MEASURES HAVE BEEN INSTALLED.
8. THE CONTRACTOR SHALL PROVIDE THE COUNTY OF SAN LUIS OBISPO WITH A CONTACT NAME AND 24 HOUR PHONE NUMBER FOR THE INDIVIDUAL RESPONSIBLE FOR DUST AND EROSION CONTROL AND SOIL TRACKING MEASURES. THE CONTACT PERSON SHALL BE THE CONTRACTOR'S SUPERINTENDENT RESPONSIBLE FOR ALL CONTRACT WORK. THE NAME AND TELEPHONE NUMBER SHALL BE SUBMITTED TO THE CONSTRUCTION INSPECTOR AT THE PRE-CONSTRUCTION MEETING.
9. THE CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PREVENT OILS, FUELS, AND OTHER POTENTIAL SPILLS OR LEAKS FROM DISCHARGING INTO DRAINAGE OR RIPARIAN AREAS. AT A MINIMUM, PRECAUTIONS SHALL INCLUDE:
 - A. NO PARKING, FUELING, OR MAINTAINING EQUIPMENT IN OR ADJACENT TO DRAINAGE OR RIPARIAN AREAS.
 - B. NO MATERIAL STORAGE, LOADING, MIXING, OR PREPARING IN OR ADJACENT TO DRAINAGE OR RIPARIAN AREAS.
 - C. DOWN-SLOPE SIDE OF ALL MATERIAL STORAGE AREAS SHALL BE DELIMITED WITH TEMPORARY CONTROL DEVICES AS NECESSARY TO PREVENT RUNOFF FROM STORED MATERIALS INTO DRAINAGE OR RIPARIAN AREAS.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS FORCES AND THE FORCES OF ALL SUB-CONTRACTORS UNDER HIS CHARGE.
11. THE CONTRACTOR SHALL HAVE ADEQUATE QUANTITIES OF ALL NECESSARY EROSION CONTROL MATERIALS ON-SITE. SAID MATERIALS SHALL BE INSPECTED ONCE A WEEK FOR THE DURATION OF THE PROJECT.
12. AT A MINIMUM, THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) ON THIS PROJECT. DETAILS OF THESE BMPs ARE AVAILABLE AT www.cdmprhaindoctors.com.

EROSION CONTROL BMPs
EC-2 PRESERVATION OF EXISTING VEGETATION
EC-3 HYDRO-MULCH
EC-10 VELOCITY DISSIPATION DEVICES
SEDIMENT CONTROL BMPs
SE-1 SILT FENCE
SE-5 FIBER ROLLS
SE-10 STORM DRAIN INLET PROTECTION
WIND EROSION CONTROL BMPs
WE-1 WIND EROSION CONTROL
13. THE CONTRACTOR SHALL PERFORM WEEKLY INSPECTIONS, INCLUDING PRIOR TO AND IMMEDIATELY AFTER EACH STORM EVENT, ONCE THE RAINY SEASON BEGINS, LOGGING ALL INSPECTIONS IN AN INSPECTION LOG. THE LOG SHALL BE KEPT ON-SITE AND BE MADE AVAILABLE FOR REVIEW.

14. PERMANENT EROSION CONTROL MATERIALS (HYDRO-SEED, ETC.) SHALL BE INSTALLED AS SOON AS IS PRACTICAL AFTER EARTHWORK OPERATIONS ARE COMPLETE.
15. THE CONTRACTOR SHALL PERFORM WEEKLY INSPECTIONS INCLUDING PRIOR TO AND IMMEDIATELY AFTER EACH STORM EVENT, ONCE THE RAINY SEASON BEGINS, LOGGING ALL INSPECTIONS IN AN INSPECTION LOG. THE LOG SHALL BE KEPT ON-SITE AND BE MADE AVAILABLE FOR REVIEW.
16. WHEN ALL PROJECT WORK IS COMPLETE AND ALL PERMANENT CONTROL MEASURES HAVE BEEN INSTALLED, THE CONTRACTOR SHALL FILE A NOTICE OF TERMINATION (NOT) WITH THE STATE OF CALIFORNIA.
17. ALL REQUIRED PERMITS SHALL BE SECURED PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL FOLLOW ALL PERMIT CONDITIONS.
18. HYDRO-SEEDING OR OTHER PERMANENT EROSION CONTROL SHALL BE PLACED AND ESTABLISHED WITH 90% COVERAGE ON ALL DISTURBED SURFACES OTHER THAN PAVED OR GRAVEL SURFACES, PRIOR TO FINAL INSPECTION.
19. THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO COMPLY WITH THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITY WITH THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB). THE CONTRACTOR SHALL PROVIDE THE CITY WITH THE WASTE DISCHARGE IDENTIFICATION NUMBER (WDID #) OR WITH VERIFICATION THAT AN EXEMPTION HAS BEEN GRANTED BY THE RWQCB.

SLO COUNTY EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED ON ALL PROJECTS AND SHALL INCLUDE SOURCE CONTROL, INCLUDING PROTECTION OF STOCKPILES, PROTECTION OF SLOPES, PROTECTION OF ALL DISTURBED AREAS AND PROTECTION OF ACCESSES. IN ADDITION, PERIMETER CONTAINMENT MEASURES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF GRADING AND SITE DISTURBANCE ACTIVITIES UNLESS THE PUBLIC WORKS DEPARTMENT DETERMINES TEMPORARY MEASURES TO BE UNNECESSARY BASED UPON LOCATION, SITE CHARACTERISTICS OR TIME OF YEAR. THE INTENT OF EROSION CONTROL MEASURES SHALL BE TO KEEP ALL SEDIMENT FROM ENTERING A SMALL DRAINAGE WAY, WATERCOURSE, OR ONTO ADJACENT PROPERTIES.
2. SITE INSPECTIONS AND APPROPRIATE MAINTENANCE OF EROSION CONTROL DEVICES SHALL BE CONDUCTED AND DOCUMENTED PRIOR TO, DURING, AND AFTER RAIN EVENTS.
3. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL EROSION CONTROL DEVICES AS SPECIFIED BY THE APPROVED PLAN UNTIL SUCH TIME THAT THE PROJECT IS ACCEPTED AS COMPLETE BY THE PUBLIC WORKS DEPARTMENT. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED. ADDITIONAL EROSION CONTROL DEVICES SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER OF WORK, COUNTY INSPECTOR, SWPPP MONITOR, OR RWQCB INSPECTOR. GUIDELINES FOR DETERMINING APPROPRIATE EROSION CONTROL DEVICES ARE INCLUDED IN THE APPENDIX OF THE PUBLIC IMPROVEMENT STANDARDS.
4. ALL EROSION CONTROL DEVICES SHALL BE THE FIRST ORDER OF WORK AND SHALL BE IN PLACE BETWEEN OCTOBER 15 AND APRIL 15 OR ANYTIME WHEN THE RAIN PROBABILITY EXCEEDS 30%. THIS WORK SHALL BE INSTALLED OR APPLIED AFTER COMPLETION OF EACH AREA IS GRADED AND NO LATER THAN FIVE (5) WORKING DAYS AFTER COMPLETION OF EACH AREA.
5. THE ENGINEER OF WORK AND THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED BEFORE OCTOBER 15 FOR INSPECTION OF INSTALLED EROSION CONTROL DEVICES.
6. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCK PILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OR MAINTENANCE OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
7. PERMANENT EROSION CONTROL SHALL BE PLACED AND ESTABLISHED WITH 90% COVERAGE ON ALL DISTURBED SURFACES OTHER THAN PAVED OR GRAVEL SURFACES, PRIOR TO FINAL ACCEPTANCE. PERMANENT EROSION CONTROL SHALL BE FULLY ESTABLISHED PRIOR TO FINAL ACCEPTANCE. TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT MEASURES ARE ESTABLISHED.
8. IN THE EVENT OF A FAILURE, THE DEVELOPER AND/OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR CLEANUP AND ALL ASSOCIATED COSTS OR DAMAGES. IN THE EVENT THAT DAMAGE OCCURS WITHIN THE RIGHT OF WAY AND THE COUNTY IS REQUIRED TO PERFORM CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL CLEANUP COSTS ARE FULLY PAID.
9. IF ANY WORK IS NOT IN COMPLIANCE WITH THE PLANS OR PERMITS APPROVED FOR THE PROJECT, THE DEPARTMENT SHALL NOTICE ALL ACTIVE PERMITS AND RECOMMEND THAT COUNTY CODE ENFORCEMENT PROVIDE A WRITTEN NOTICE OR STOP WORK ORDER IN ACCORDANCE WITH SECTION 2252.140(2)(D) OF THE LAND USE ORDINANCE.
10. ALL PROJECTS INVOLVING SITE DISTURBANCE OF ONE ACRE OR GREATER SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). THE DEVELOPER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO COMPLY WITH THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITY WITH THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB). THE DEVELOPER SHALL PROVIDE THE COUNTY WITH THE WASTE DISCHARGE IDENTIFICATION NUMBER (WDID#) OR WITH VERIFICATION THAT AN EXEMPTION HAS BEEN GRANTED BY RWQCB.
11. PERSON TO CONTACT 24 HOURS A DAY IN THE EVENT THERE IS AN EROSION CONTROL/SEDIMENTATION PROBLEM (STORM WATER COMPLIANCE OFFICER):
 LOCAL PHONE NUMBER _____

PERMANENT EROSION CONTROL NOTES:

1. ALL CUT AND FILL SLOPES SHALL BE PREPARED FOR THE APPLICATION OF TYPE "D" EROSION CONTROL CONFORMING TO THE PROVISIONS OF SECTION 20. EROSION CONTROL AND HIGHWAY PLANNING OF THE STATE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
2. THE WORK SHALL CONSIST OF AN APPLICATION OF HYDRO-SEEDING EROSION CONTROL MATERIAL CONSISTING OF A MIXTURE OF STABILIZING EMULSION, FIBER, SEED, COMMERCIAL FERTILIZER AND WATER TO THE CONSTRUCTED SLOPES.
3. SEED SHALL CONSIST OF THE FOLLOWING:

BOTANICAL NAME (COMMON NAME)	(MINIMUM) SEEDS PER BURLT	(MINIMUM) SEMINATION PER BURLT	PER ACRE PER ACRE
BRACHIUM CARINATUS (CUCUMONOA BROOME)	95	80	20
VULPRA MICROSTACHYS (SMALL FESCUE)	90	60	8
TRIFOLIUM GYKALENUM (PRAIRIE CLOVER)	98	85	8
4. THE EROSION CONTROL (TYPE D) MATERIALS SHALL BE MIXED AND APPLIED IN APPROXIMATELY THE FOLLOWING PROPORTIONS:

MATERIAL	PER ACRE
FIBER	(SLOPE MEASUREMENT)
COMMERCIAL FERTILIZER	1500 POUNDS
STABILIZING EMULSION	400 POUNDS

 AS NEEDED FOR APPLICATION AS RECOMMENDED BY MANUFACTURER
5. AREAS STEEPER THAN 4:1 SLOPE SHALL BE TREATED WITH HYDROSEEDING AS ABOVE AND THEN A LAYER OF STRAW WILL BE APPLIED THE APPLICATION MACHINE WILL BE OF SUCH A SIZE AS TO COMPLETE A MINIMUM OF 3 ACRES PER HOUR IN A WORKING DAY. AREAS STEEPER THAN 4:1 SLOPE SHALL BE TREATED WITH HYDROSEEDING AS ABOVE AND THEN A LAYER OF STRAW WILL BE APPLIED THE APPLICATION MACHINE WILL BE OF SUCH A SIZE AS TO COMPLETE A MINIMUM OF 3 ACRES PER HOUR IN A WORKING DAY. THIS STRAW LAYER WILL BE REFORCED BY CHEMICAL OR MECHANICAL MEANS USING A SHEEP FOOT ROLLER.

DUST CONTROL NOTES:

- THE CONTRACTOR SHALL IMPLEMENT A DUST CONTROL PROGRAM FOR THE DURATION OF THE PROJECT. RESPONSIBILITY FOR DUST CONTROL SHALL EXTEND OVER WEEKENDS, HOLIDAYS, AND PROLONGED PERIODS OF CONSTRUCTION NON-ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE COUNTY INSPECTOR OF ANY CHANGES TO THE DUST CONTROL PROGRAM. THE CONTRACTOR SHALL PROVIDE THE NAME AND 24-HOUR CONTACT PHONE NUMBER FOR THIS INDIVIDUAL TO THE COUNTY APCD BEFORE WORK BEGINS ON THIS PROJECT. AT A MINIMUM, THE PROGRAM SHALL INCLUDE THE FOLLOWING:
- A. REDUCE THE AMOUNT OF DISTURBED AREA WHERE POSSIBLE.
 - B. USE WATER TRUCKS OR SPRINKLER SYSTEMS IN SURFACED AREAS TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED WATERING FREQUENCIES WILL BE REQUIRED WHEREVER WIND SPEEDS EXCEED 15 MPH.
 - C. RECLAIMED (NON-POWDER) WATER SHOULD BE USED WHENEVER POSSIBLE.
 - D. ALL DIRT STOCK PILE AREAS SHOULD BE SPARKED DAILY AS NEEDED.
 - E. PERMANENT DUST CONTROL MEASURES IDENTIFIED IN THE APPROVED PROJECT REVEGETATION AND LANDSCAPE PLANS SHALL BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES.
 - F. EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REMORKED AT DATES GREATER THEN ONE MONTH AFTER INITIAL ESTABLISHMENT SHOULD BE SOWN WITH A FAST GERMINATING NATIVE GRASS SEED AND WATERED UNTIL VEGETATION IS ESTABLISHED.
 - G. ALL DISTURBED SOIL AREAS NOT SUBJECT TO REVEGETATION MUST BE STABILIZED USING APPROVED CHEMICAL SOIL BINDERS, JUTE NETTING, OR OTHER METHODS APPROVED IN ADVANCE BY APCD.
 - H. ALL ROADWAYS, DRIVEWAYS, SIDEWALKS, ETC. TO BE PAVED SHOULD BE COMPLETED AS SOON AS POSSIBLE. IN ADDITION, BUILDING SLABS AND HARD SCOPE SHOULD BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
 - I. VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15 MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE.
 - J. ALL TRUCKS HAULING DIRT, SAND, SOIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD (MINIMUM VERTICAL DISTANCE BETWEEN TOP OF LOAD AND TOP OF TRAILER) IN ACCORDANCE WITH CALIFORNIA VEHICLE CODE SECTION 23114.
 - K. SWEEP STREETS AT THE END OF EACH DAY. IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PAVED ROADS, WATER SWEEPERS WITH RECLAIMED WATER SHOULD BE USED WHERE FEASIBLE.

WATER POLLUTION CONTROL DRAWING

HIGHWAY 58- APN 070-141-070 & 071

REV.	DESCRIPTION	DATE	APP.

TARTAGLIA ENGINEERS CIVIL ENGINEERS <small>P. O. Box 1930 Alessandro, CA 94523 (925) 466-8800</small>	LAS PLITAS RESOURCES LLC
DESIGN/DRAWN: TCE JOB NO.: 08-23 COUNTY W.O. NO.: xxx CALIFORNIA COORDINATES: N 706	APPROVED FOR COUNTY REQUIREMENTS DEVELOPMENT SERVICES ENGINEER DATE: _____ SHEET # 19 of # 20 DATE: 9-09-09 SCALE: NONE DWG. NO.: 08-23

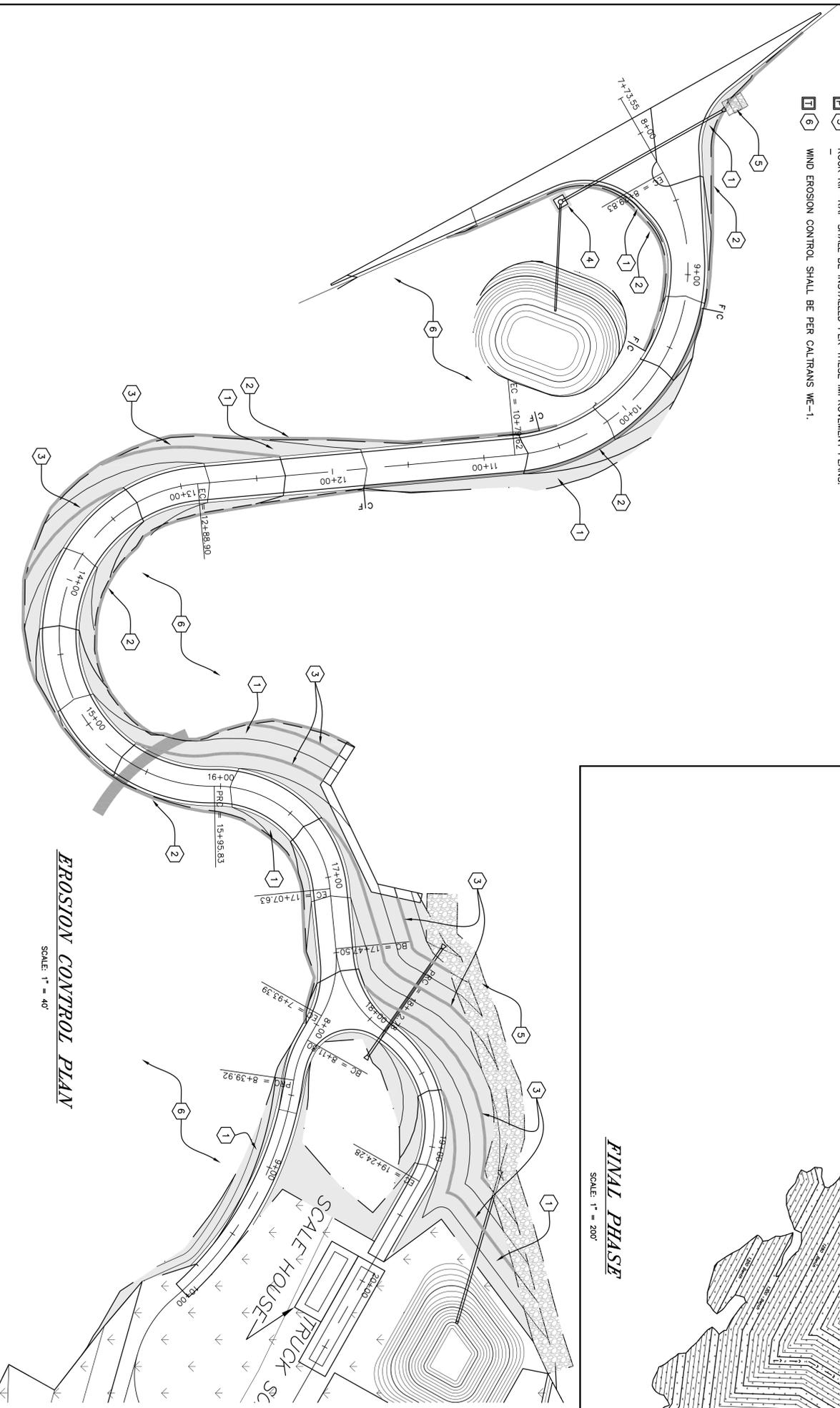
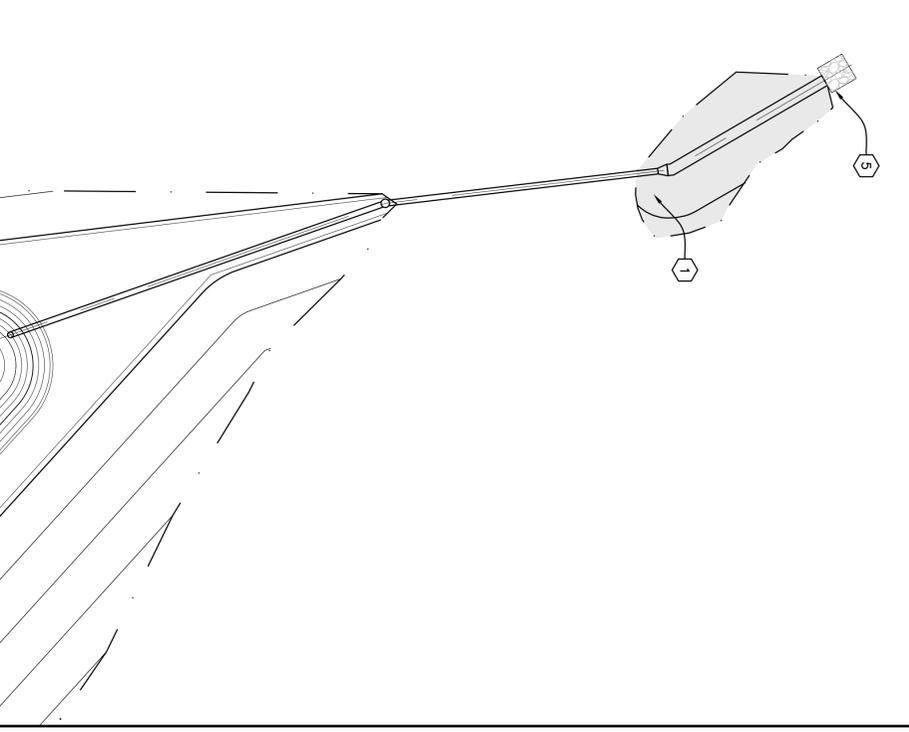
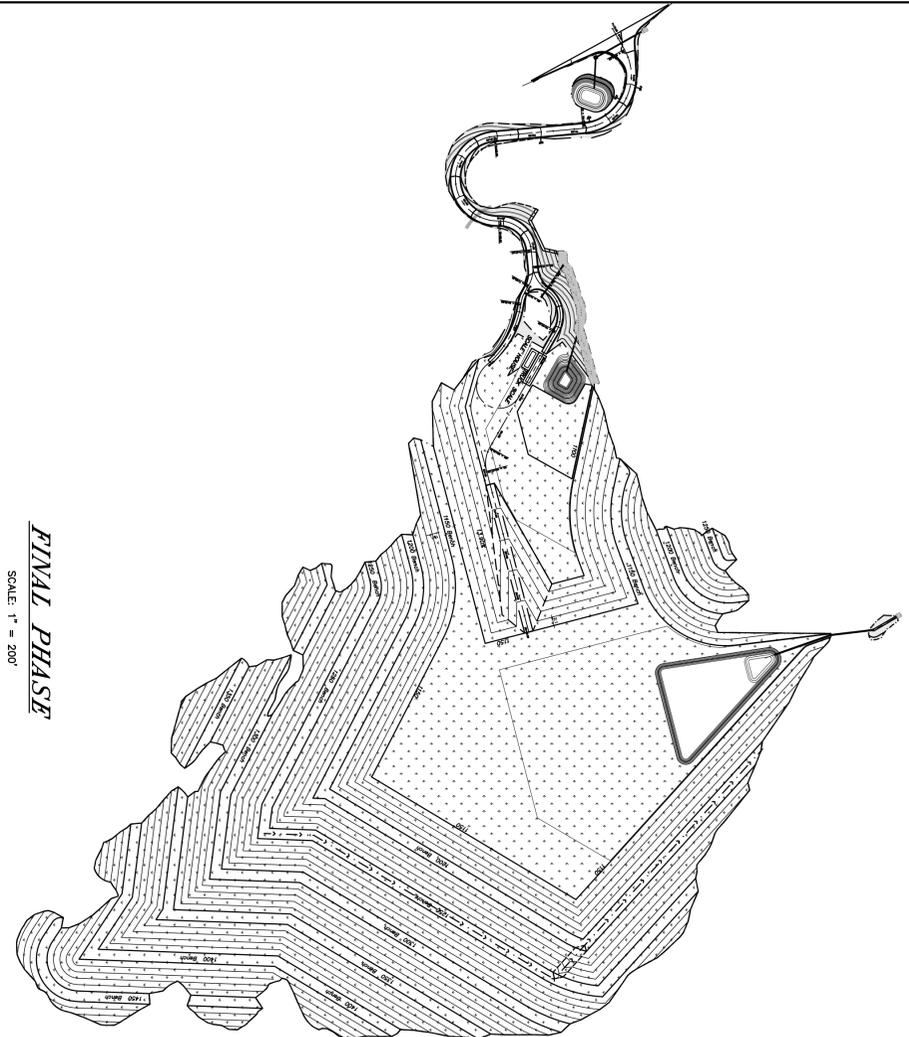
TARTAGLIA ENGINEERING PUBLIC IMPROVEMENT PLANS FOR LAS PLITAS ROCK QUARRY	P. O. BOX 1930, ATASCADERO, CA 93423 - 805-466-5660
WATER POLLUTION CONTROL DRAWING	

EROSION CONTROL LEGEND

- HYDRO-SEED AREAS
- FIBER ROLL INSTALLATION
- DRAIN INLET/QUVERT PROTECTION
- PERMANENT EROSION CONTROL MATERIALS TO REMAIN
- TEMPORARY EROSION CONTROL MATERIALS TO BE REMOVED AFTER SOIL STABILIZATION AND VEGETATION IS ESTABLISHED
- ROCK RIP-RAP INSTALLATION

EROSION CONTROL PLACEMENT NOTES

- 1** HYDRO-SEED TREATMENT AREAS PER NOTES AS SHOWN
- 2** FIBER ROLLS SHALL BE INSTALLED AT THE TOE OF ALL SLOPES AND AT ALL OTHER LOCATIONS AS SHOWN ON SHIT. 20; PER DETAIL SC-5.
- 3** FIBER ROLLS SHALL BE INSTALLED ON ALL MAN-MADE FILL SLOPES @ 10' VERTICAL ELEVATION INTERVALS TAKEN FROM THE TOP (DAYLIGHT/HINGE POINT) OF FILL SLOPE.
- 4** ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES OR INLET POINTS TO SWALES/QUVERTS SHALL BE ENFORCED WITH FIBER ROLLS. INTERM CHANNELIZATION MAY BE REQUIRED TO ENTRAP SEDIMENT AS PROJECT GRADING ALTERS FLOW PATHS DURING THE CONSTRUCTION PROCESS.
- 5** ROCK RIP-RAP SHALL BE INSTALLED PER THESE IMPROVEMENT PLANS.
- 6** WIND EROSION CONTROL SHALL BE PER CALTRANS WC-1.



EROSION CONTROL PLAN

SCALE: 1" = 30'

EROSION CONTROL PLAN

SCALE: 1" = 40'

REV.	DESCRIPTION	DATE	APP.

TARTAGLIA ENGINEERING
 P.O. BOX 1930, ATASCADERO, CA, 93423 - 805-466-5660
 PUBLIC IMPROVEMENT PLANS FOR
LAS PILTAS ROCK QUARRY
 WATER POLLUTION CONTROL DRAWING

DESIGN/DRAMA	COUNTY PLAN CHECK	APPROVED FOR COUNTY REQUIREMENTS
TOE		
JOB NO.	COUNTY W.O. NO.	DATE
08-23	xxx	
CALIFORNIA COORDINATES	R.C.E. 24084	DATE
N 706		

TARTAGLIA ENGINEERING
 CIVIL ENGINEERS
 P.O. Box 1930 Atascadero, CA 93423
 (805) 466-5660

LAS PILTAS
 RESOURCES LLC

DESIGN	TOE
DRAWN	TOE
CHECKED	RCI
SCALE	1"=200'
DWG. NO.	08-23
DATE	9-17-08
SHEET	20

WATER POLLUTION CONTROL DRAWING
HIGHWAY 58- APN 070-141-070 & 071