

EROSION CONTROL NOTES

- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS BETWEEN OCTOBER 1 AND APRIL 15. APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

STORMWATER MANAGEMENT NOTES

- DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
- NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY D.P.W. DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
- THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS AT ALL TIMES. THE B.M.P.'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE MAINTENANCE OF THE B.M.P.'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE B.M.P.'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED B.M.P.'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- ON PROJECTS OF GREATER THAN ONE ACRE ADD THE FOLLOWING NOTE: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS00002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [W01D#] [ALTERNATIVE: NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED]. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

SILTATION AND SEDIMENT CONTROL MEASURES NOTES

- THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
- SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
- SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.
- ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION LEVEL WITH, AND TWO GRAVEL BAGS BELOW THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	AS REQUIRED
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET
- AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDING SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
- ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

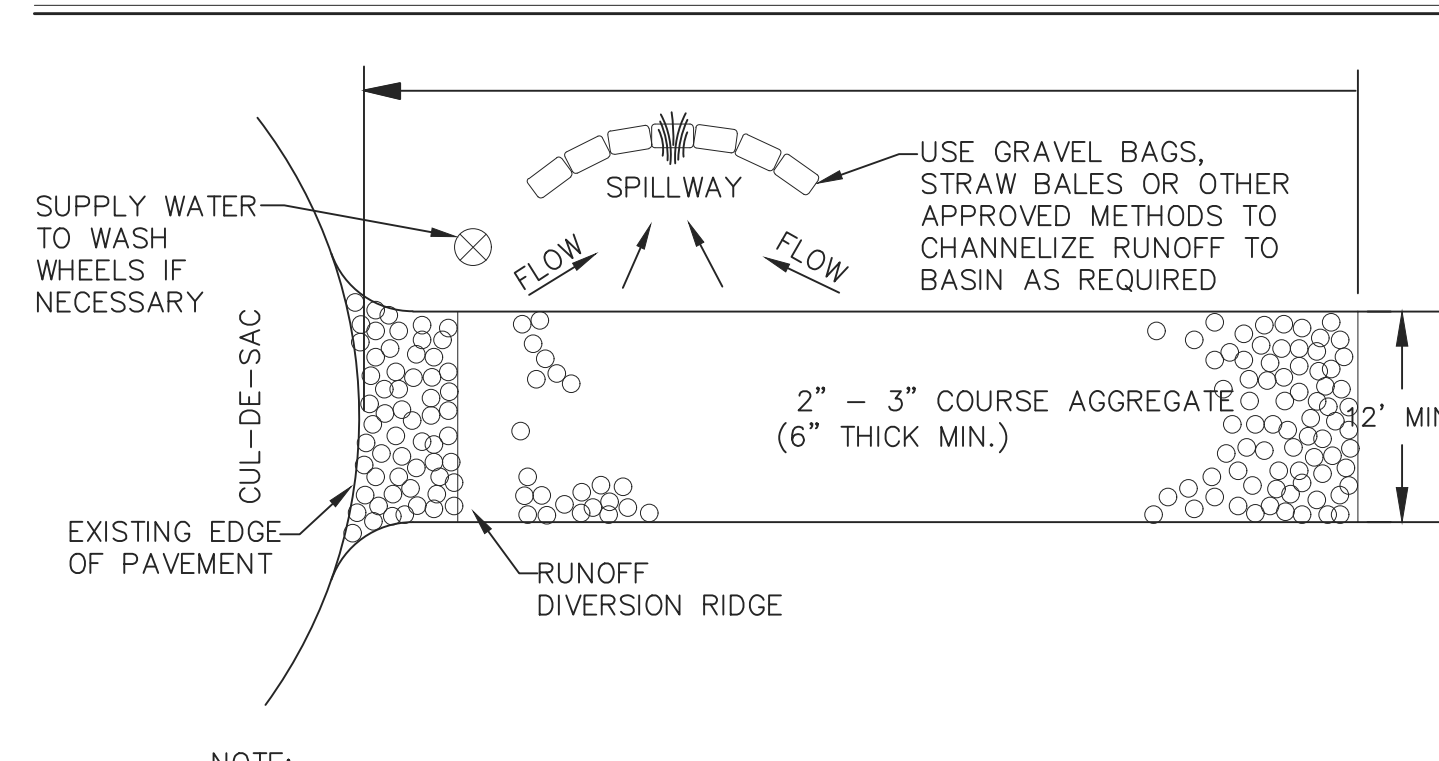
GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET
- PROVIDE VELOCITY CHECK DAMS IN ALL STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.

GRADE OF STREET	INTERVAL	NUMBER OF BAGS HIGH
LESS THAN 2%	200 FEET MAX	1
2% TO 4%	100 FEET	1
4% TO 6%	50 FEET	1
6% TO 10%	50 FEET	2
OVER 10%	25 FEET	2
- PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
- GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
- ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE. MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
- PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR IMPERVIOUS SURFACES.
- ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES; I.E., COUNTY ENGINEER, DEPARTMENT OF ENVIRONMENTAL HEALTH, FLOOD CONTROL AND OFFICE OF ENVIRONMENTAL MANAGEMENT ETC.

LIMITATIONS AND RESTRICTIONS

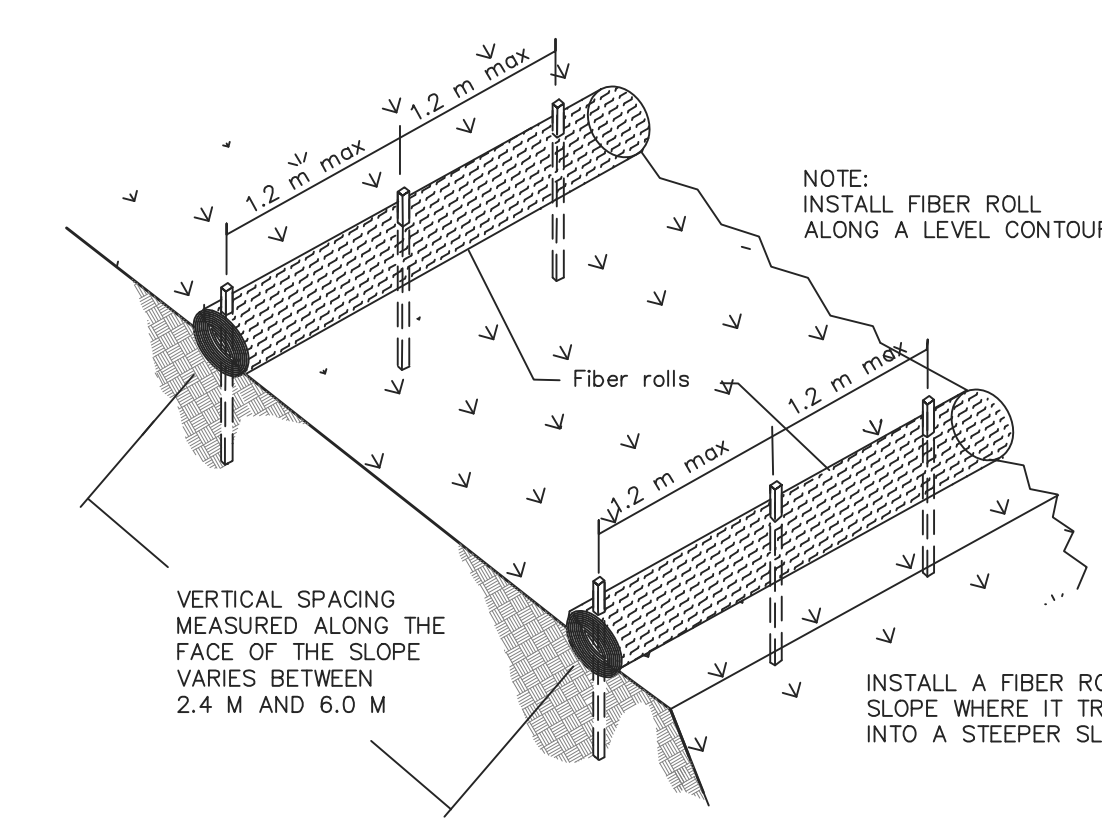
- APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1.
- BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.
- THE SITE MUST BE PROTECTED WITH BROW DITCHES AND / OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.
- BFM SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLICATION FROM MULTIPLE ANGLES).
- FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.
- A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE BFM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.

TYPICAL BMP DETAILS



NOTE: ALL AREAS OF SIGNIFICANT VEHICLE TRAFFIC (SITE ENTRANCES, ACCESS ROADS, PARKING LOTS, ETC.) SHOULD BE STABILIZED IMMEDIATELY AFTER GRADING TO PREVENT EROSION AND CONTROL DUST. SITE ENTRANCES AND EXITS ARE ESPECIALLY IMPORTANT. USE GRAVEL APPROACHES TO LIMIT TRACKING OF SEDIMENT OFF SITE.

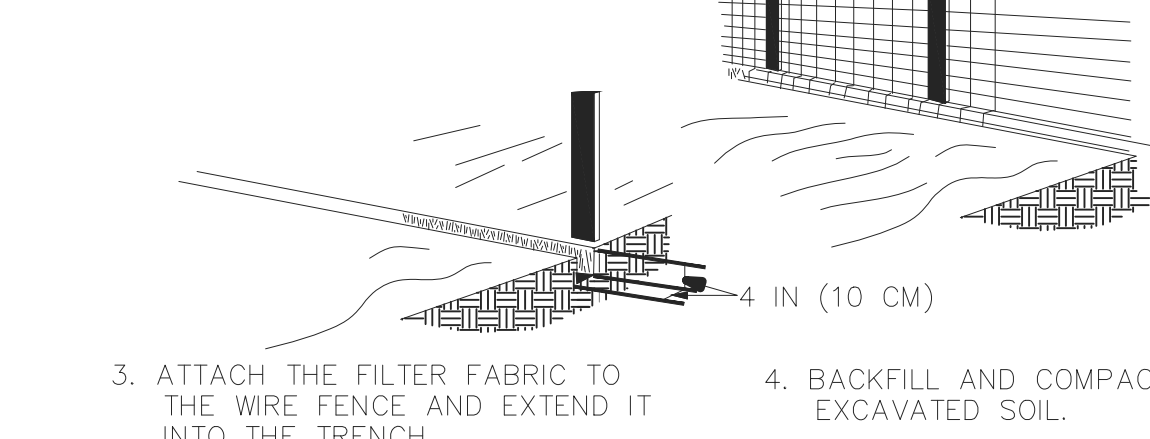
STABILIZED CONSTRUCTION ENTRANCE



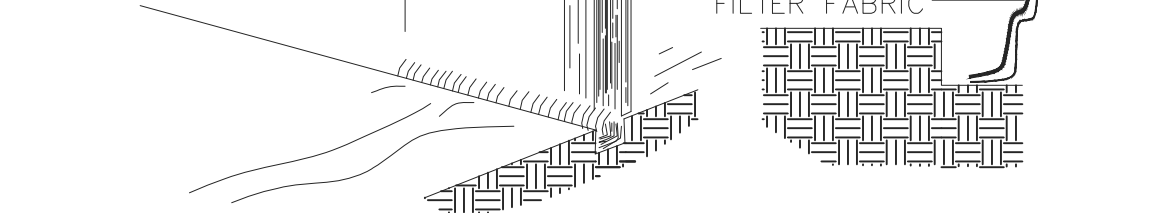
TYPICAL FIBER ROLL INSTALLATION



- SET POSTS AND EXCAVATE A 4 BY 4 IN (10 BY 10 CM) TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS.
- STAPLE WIRE FENCING TO THE POSTS.



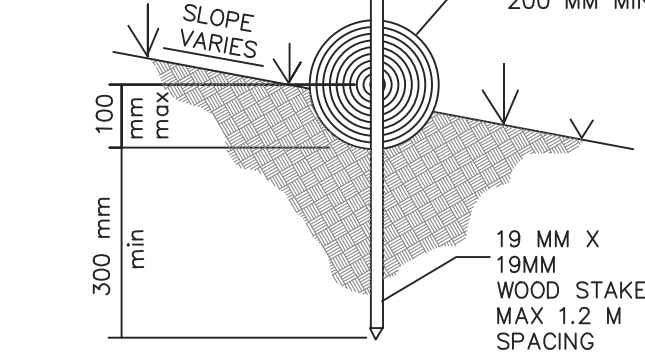
- ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
- BACKFILL AND COMPACT THE EXCAVATED SOIL.



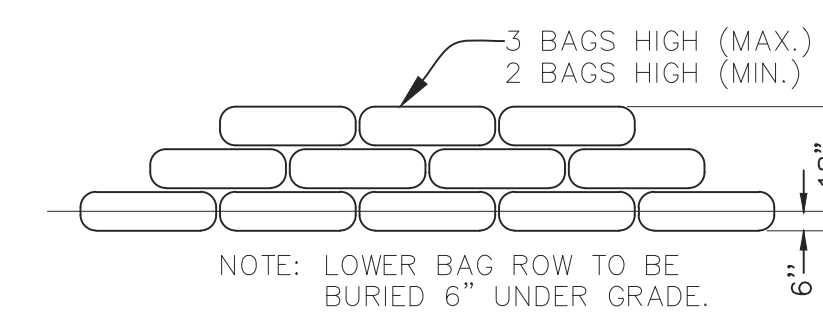
SILT FENCE



ENTRENCHMENT DETAIL



GRAVEL BAG CHECK DAM



PLANTING & IRRIGATION NOTES

- ALL PERMANENT AND TEMPORARY EROSION CONTROL PLANTING AND IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY THE COUNTY OF SAN DIEGO LANDSCAPE STANDARDS:
- HYDROSEEDING SHALL BE APPLIED TO:
 - ALL SLOPES THAT ARE GRADED 6:1 (HORIZONTAL TO VERTICAL) OR STEEPER WHEN THEY ARE:
 - THREE FEET OR MORE IN HEIGHT AND ADJACENT TO A PUBLIC WALL OR STREET;
 - ALL SLOPES 4 FEET OR MORE IN HEIGHT.
 - AREAS GRADED FLATTER THAN 6:1 WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
 - NOT SCHEDULED FOR IMPROVEMENTS (CONSTRUCTION OR GENERAL LANDSCAPING) WITHIN 30 DAYS OF ROUGH GRADING.
 - HYDROSEEDED AREAS SHALL BE IRRIGATED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - ALL SLOPES THAT ARE GRADED 6:1 OR STEEPER AND THAT ARE:
 - THREE TO EIGHT FEET IN HEIGHT SHALL BE IRRIGATED BY HAND WATERING FROM QUICK COUPLERS/HOSE BIBS OR A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS PROVIDING 100% COVERAGE.
 - GREATER THAN 8 FEET IN HEIGHT SHALL BE WATERED BY A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS PROVIDING 100% COVERAGE.
 - AREAS SLOPED LESS THAN 6:1 SHALL BE IRRIGATED AS APPROVED BY THE COUNTY ENGINEER, PRIOR TO HYDROSEEDING. THE DEVELOPER SHALL SUBMIT A PROPOSED SCHEME TO PROVIDE IRRIGATION TO THE COUNTY ENGINEER. THE PROPOSAL SHALL BE SPECIFIC REGARDING THE NUMBERS AND COSTS OF THE ELEMENTS OF THE PROPOSED SYSTEM.
 - IRRIGATION SHALL MAINTAIN THE MOISTURE LEVEL OF THE SOIL AT THE OPTIMUM LEVEL FOR THE GROWTH OF THE HYDROSEEDED GROWTH.
 - SLOPE HYDROSEEDING MIX SHALL CONSIST OF ALL OF THE FOLLOWING: (TEMPORARY PAD HYDROSEEDING MIX PER SHEET 14.)
 - SEED MIX SHALL CONSIST OF NO LESS THAN:
 - ALL SEED MATERIALS SHALL BE TRANSPORTED TO THE JOBSITE IN UNOPENED CONTAINERS WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE CERTIFICATION TAG ATTACHED TO, OR PRINTED ON SAID CONTAINERS.
 - NON-PHYTO-TOXIC WETTING AGENTS MAY BE ADDED TO THE HYDROSEED SLURRY AT THE DISCRETION OF THE CONTRACTOR.
 - TYPE 1 MULCH APPLIED AT THE RATE OF NO LESS THAN 2000 LBS. PER ACRE. TYPE 6 MULCH (STRAW) MAY BE SUBSTITUTED, ALL OR PART, FOR HYDRAULICALLY APPLIED FIBER MATERIAL. WHEN STRAW IS USED IT MUST BE ANCHORED TO THE SLOPE BY MECHANICALLY PUNCHING NO LESS THAN 50% OF THE STRAW INTO THE SOIL.
 - FERTILIZER CONSISTING OF AMMONIUM PHOSPHATE, SULFATE, 16-20-0, WITH 15% SULPHUR APPLIED AT THE RATE OF 500 LBS. PER ACRE.
 - AREAS TO BE HYDROSEEDED SHALL BE PREPARED PRIOR TO HYDROSEEDING BY:
 - ROUGHENING THE SURFACE TO BE PLANTED BY ANY OR A COMBINATION OF:
 - TRACK WALKING SLOPES STEEPER THAN 6:1
 - HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLY FRIABLE.
 - RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a or b ABOVE.
 - CONDITIONING THE SOILS SO THAT IT IS SUITABLE FOR PLANTING BY:
 - ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP BUT NOT SATURATED SEED BED.
 - THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDED VIABLE CONDITIONS FOR GROWTH.
 - SLOPES OVER 3' IN HEIGHT SHALL BE STABILIZED.

EMERGENCY EROSION CONTROL MEASURES NOTES

- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF THE SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1, AND APRIL 15, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

BMP STENCIL PLACEMENT NOTES

- ALL STORM DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA SHALL HAVE A STENCIL OR TILE PLACED WITH PROHIBITIVE LANGUAGE (SUCH AS: "NO DUMPING - 1 LIVE IN <<NAMED RECEIVED WATER>>") AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING.
- SIGNS AND PROHIBITIVE LANGUAGE AND/OR GRAPHICAL ICONS, WHICH PROHIBIT ILLEGAL DUMPING, MUST BE POSTED AT PUBLIC ACCESS POINTS ALONG CHANNELS AND CREEKS WITHIN THE PROJECT AREA.
- LEGIBILITY OF STENCILS, TILES AND SIGNS MUST BE MAINTAINED AND TILES MUST BE PLACED FLUSH WITH THE TOP OF CONCRETE TO REDUCE TRIPPING BY PEDESTRIANS.

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: VICTOR RODRIGUEZ-FERNANDEZ DATE: 3/27/19

RCE NO.: 35373

1283 E. MAIN ST., STE 109, EL CAJON, CA. 92021
PH: 760-357-2434 FAX: 760-660-4848

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES



COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 3 OF 4 SHEETS

COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS FOR:

RAMOS SINGLE FAMILY RESIDENCE

CALIFORNIA COORDINATE INDEX 170-1749

APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER

ENGINEER OF WORK: VICTOR RODRIGUEZ-FERNANDEZ, R.C.E. 35373

GRADING PERMIT NO: PDS2017-LDGRMN-20153

VICTOR RODRIGUEZ-FERNANDEZ, P.E. PH: 760-357-2434

GENERAL NOTES

- APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
 - FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
 - IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
 - A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
 - ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
 - THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:
 PHONE NUMBER:
 SAN DIEGO GAS AND ELECTRIC (619) 696-2000
 AT&T TELEPHONE (619) 660-6075
 CATV (619) 271-5793
 SEWER SEPTIC: COUNTY OF SAN DIEGO (858) 565-5173
 WATER: SWEETWATER AUTHORITY (619) 420-1413
 - A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
 - APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
 - THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES.
 - ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6:00PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
 - ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
 - NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
 - SLOPE RATIOS:
 CUT = MAX SLOPE 2:1 (MAX. CUT HEIGHT: 7.0')
 FILL = MAX SLOPE 2:1 (MAX. FILL HEIGHT: 10.0')
 EXCAVATION: 1000 C. Y. FILL: 2000 C. Y. WASTE/IMPORT 1000 C. Y.
- (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE PERMIT TO BE ISSUED).
- SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
 - PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL FROM THE DEPARTMENT OF PUBLIC OF WORKS.

NOTICE: THE SUBJECT PROPERTY CONTAINS HABITAT WHICH MAY BE USED FOR NESTING BY MIGRATORY BIRDS AND/OR RAPTORS. ANY GRADING, BRUSHING OR CLEARING CONDUCTED DURING THE MIGRATORY BIRD BREEDING SEASON, FEBRUARY 1 - AUGUST 31, HAS A POTENTIAL TO IMPACT NESTING OR BREEDING BIRD IN VIOLATION OF THE MIGRATORY BIRD TREATY ACT. THE APPLICANT SHALL SUBMIT EVIDENCE THAT NESTING OR BREEDING MIGRATORY BIRDS WILL NOT BE AFFECTED BY THE GRADING, BRUSHING OR CLEARING TO THESE AGENCIES: CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, 3883 RUFFIN RD., SAN DIEGO, CA 92123, (858) 467-4201, <http://www.dfg.ca.gov/>; AND UNITED STATES FISH AND WILDLIFE SERVICE, 2177 SALK AVENUE, SUITE 250, CARLSBAD, CALIFORNIA 92008, (760) 431-9440, <http://www.fws.gov/>.

NOTES:

- THE PROPERTY OWNER IS AWARE OF THE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH POLICIES AND WILL OBTAIN DEH APPROVAL DURING BUILDING PERMIT PHASE.
- THE PROPERTY OWNER IS AWARE OF THE COUNTY WATER CONSERVATION AND LANDSCAPING ORDINANCE AND WILL PROCESS LANDSCAPE AND IRRIGATION PLANS IN ACCORDANCE WITH ORDINANCE NO. 10427 DURING BUILDING PERMITE PHASE.

OWNER'S / PERMITEE'S

NAME: _____

ADDRESS: _____

TELEPHONE NO: _____

SHORT LEGAL DESCRIPTION: PORTION OF LOTS 28 & 29, BLK 9, MAP 819

A.P.N. NO: 579-300-32-00 AND 579-300-33-00

SITE ADDRESS: JAMACHA BOULEVARD, SPRING VALLEY CA. 91977

MINOR GRADING PLAN



VICINITY MAP
NO SCALE
THOMAS BROSS: 1310-E6

SOILS ENGINEERS CERTIFICATE:

THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN COMPLIANCE WITH THE RECOMMENDATIONS OUTLINED IN OUR GEOTECHNICAL INVESTIGATION TITLED PROJECT No. _____ DATED _____ THE SOILS REPORT SHALL BE CONSIDERED AS A PART OF THIS PLAN AND ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF SAID REPORT.

ROBERT CHAN, P.E.
9833 PACIFIC HEIGHTS BOULEVARD, SUITE C
SAN DIEGO, CALIFORNIA 92121
PH. (858) 457-4515 FAX (858) 457-4151

BY: _____ DATE: _____
ROBERT CHAN, P.E.

FOR WORK IN THE COUNTY RIGHT-OF-WAY:

FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, SEE CONSTRUCTION PERMIT NO. N/A

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: _____ DATE: 3/29/19
VICTOR RODRIGUEZ-FERNANDEZ
RCE NO.: 35373
1283 E. MAIN ST., STE 109, EL CAJON, CA. 92021
PH: 760-357-2434 FAX: 760-660-4848



OWNERS CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETIONS OF THE IMPROVEMENTS.

BY: _____ DATE: _____
ASSESSOR'S PARCEL NO. 579-300-32-00 AND 579-300-33-00
NAME: _____
ADDRESS: _____
PHONE NUMBER: _____

DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES

DISTURBED AREA CALCS

PAD + SLOPES: 23,530 SF
 DRIVEWAY: 19,970 SF
 PRIMARY SEPTIC: N/A SF
 FIRE CLEARING: 0 SF
 TOTAL: 43,500 SF
 IF ≥ 1 AC, PROVIDE WID# : N/A



FIRE DEPARTMENT APPROVAL

FIRE DEPT. / DISTRICT: _____

APPROVED BY: _____

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

BY: VICTOR RODRIGUEZ-FERNANDEZ DATE: 3/29/19
RCE NO: 35373

PDS ENVIRONMENTAL REVIEW

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.

APPROVED BY: _____

DATE: _____

NOTICE: THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR SAID PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT AND ANY AMENDMENTS THERETO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:

DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____

DATE: _____

PERMITS

LANDSCAPE PERMIT NO. _____

WDID/NOI NO. N/A SWPPP RISK LEVEL N/A

TENTATIVE MAP NO. N/A

BENCH MARK

DESCRIPTION: _____

LOCATION: _____

RECORD FROM: _____

ELEVATION: _____ DATUM: _____

PRIVATE CONTRACT

SHEET <u>1</u>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	<u>4</u> SHEETS
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MINOR GRADING PLAN FOR:

JAMACHA BOULEVARD

CALIFORNIA COORDINATE INDEX _____

APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER

ENGINEER OF WORK: VICTOR RODRIGUEZ-FERNANDEZ DATE: _____
R.C.E. 35373

SEE CERTIFICATION

GRADING PERMIT NO: _____

GRADING LEGEND:

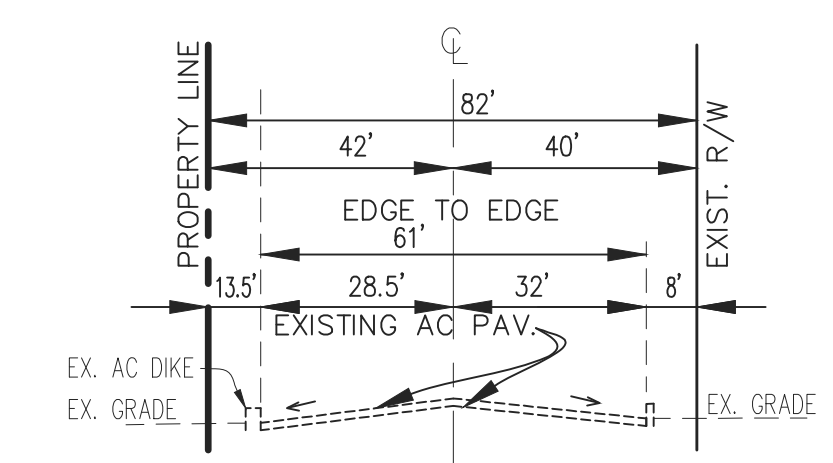
EXISTING ITEM	SYMBOL
PROPERTY LINE	-----
RIGHT OF WAY	----- R/W -----
CENTER LINE	----- CL -----
EXISTING GAS LINE	----- GAS -----
EXISTING FENCE (TYPE AS NOTED)	-----
EXISTING CONTOUR LINE	----- 150 -----
EXISTING SEWER LINE	----- S -----
EXISTING WATER LINE	----- W -----
EXISTING ELECTRIC OVERHEAD LINE	----- EOH -----
EXISTING FIRE HYDRANT	----- FH -----
EXISTING EDGE OF PAVEMENT	-----
EXISTING SIDEWALK	-----
EXISTING PAVEMENT	-----
EXISTING RETAINING WALL	-----
EXISTING SEWER MANHOLE	○ MH
FLOWLINE ELEVATION	FL
TOP OF CURB ELEVATION	TC
FINISHED GRADE ELEVATION	FG
FINISHED SURFACE ELEVATION	FS
FINISH FLOOR ELEVATION	FF
TOP OF WALL ELEVATION	TW
BOTTOM OF WALL ELEVATION	BW
NATURAL GRADE ELEVATION	NG

WORK TO BE DONE:

GRADING AND DRAINAGE WORK CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO AREA REGIONAL STANDARD DRAWINGS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND PER SAN DIEGO COUNTY GRADING ORDINANCE.

GRADING LEGEND:

PROPOSED ITEM	STD. DWG.	SYMBOL
PROPOSED RETAINING WALL	C-01	-----
PROPOSED 4" CONCRETE (520-C-2500)		-----
PROPOSED 4" PERMEABLE CONCRETE (SEE DETAIL SHT2)		-----
PROPOSED PERMEABLE CONCRETE (SEE DETAIL SHT2)		-----
PROPOSED 5.5" CONCRETE (520-C-2500)		-----
PROPOSED LANDSCAPE AREA		-----
INDICATES PROPOSED FLOW DIRECTION		-----
PROPOSED CONTOUR LINE		----- 310 -----
PROPOSED SLOPE		-----
PROPOSED CURB OUTLET	D-25	-----
PROPOSED COMMERCIAL DRIVEWAY	C-26	-----
PROPOSED PVC DRAIN PIPE AS NOTED		-----
PROPOSED DRAIN INLET AS NOTED		-----



TYPICAL SECTION JAMACHA BLVD
FOR REFERENCE ONLY NOT TO SCALE

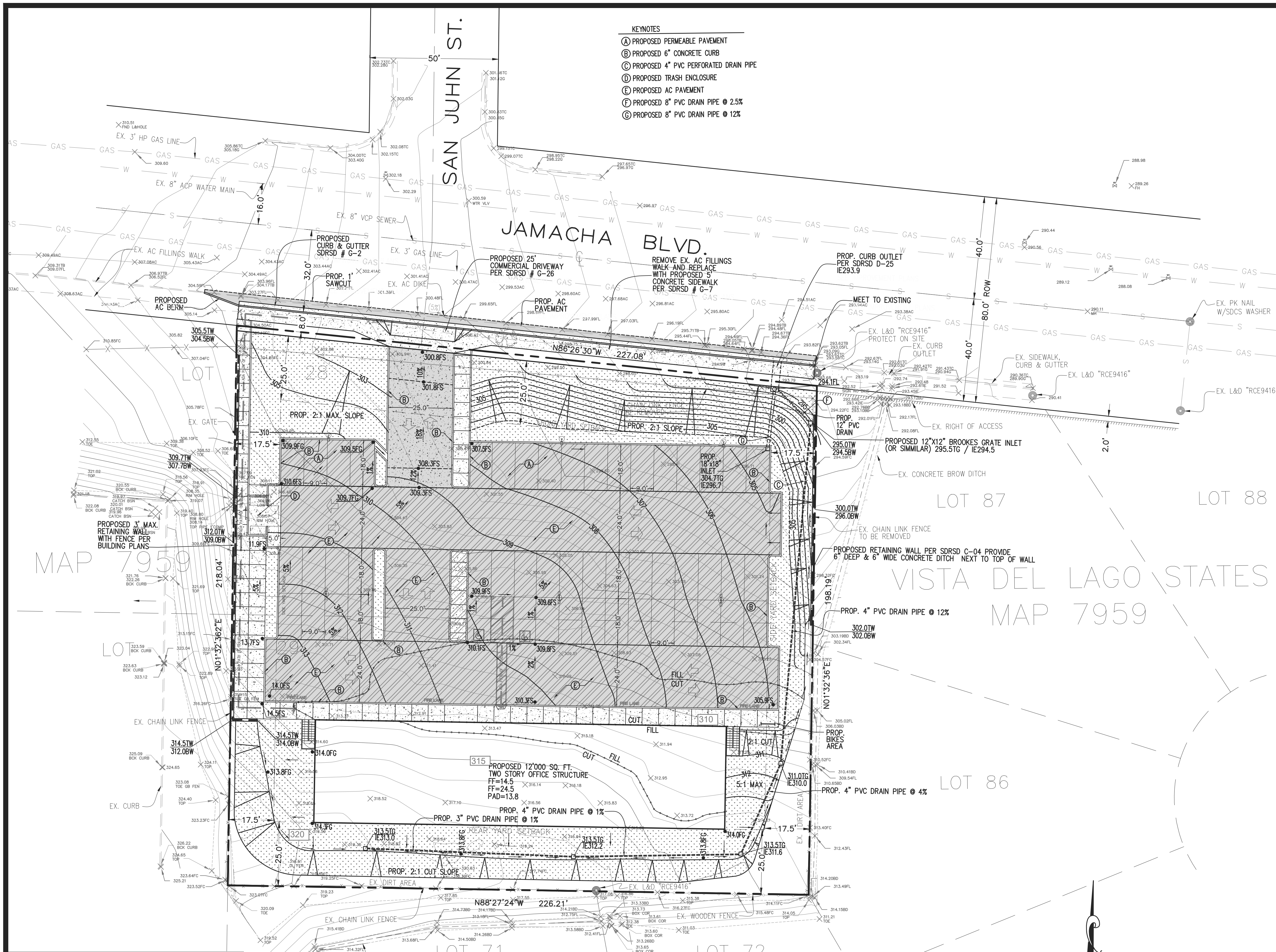
SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2	MINOR GRADING PLAN
SHEET 3	EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS
SHEET 4	EROSION CONTROL AND CONSTRUCTION BMP PLAN

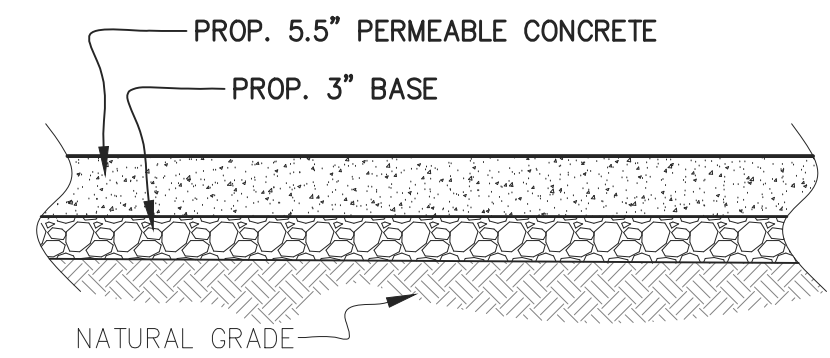
STORMWATER STRUCTURAL POLLUTANT CONTROL & HYDROMODIFICATION CONTROL BMPs

DESCRIPTION/TYPE	PLAN SHEET	BMP ID#	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT RECORD DOC #
STANDARD				

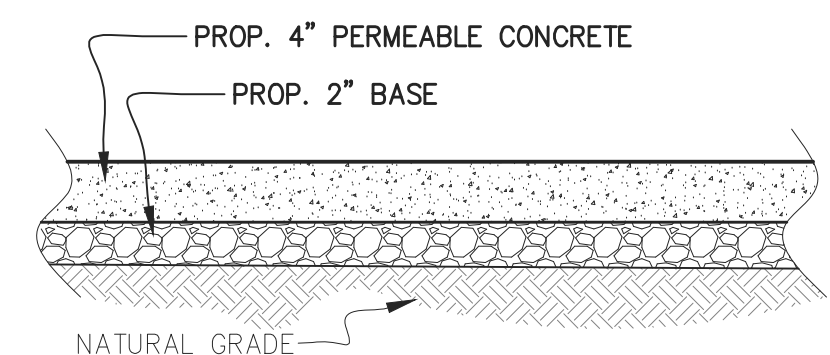
* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) DATED 5/8/18 ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWMP REVISION AND PLAN CHANGE APPROVALS.



- KEYNOTES**
- Ⓐ PROPOSED PERMEABLE PAVEMENT
 - Ⓑ PROPOSED 6" CONCRETE CURB
 - Ⓒ PROPOSED 4" PVC PERFORATED DRAIN PIPE
 - Ⓓ PROPOSED TRASH ENCLOSURE
 - Ⓔ PROPOSED AC PAVEMENT
 - Ⓕ PROPOSED 8" PVC DRAIN PIPE @ 2.5%
 - Ⓖ PROPOSED 8" PVC DRAIN PIPE @ 12%



5.5" THICK PERMEABLE CONCRETE DETAIL
NOT TO SCALE



4" THICK PERMEABLE CONCRETE DETAIL
NOT TO SCALE

LEGEND AREA DATA

IMPERVIOUS AREAS		
PROPOSED CONCRETE	(1,915 SF)	
PROPOSED BUILDING	(6,400 SF)	
PROPOSED 5.5" THICK CONCRETE PAVEMENT	(1,340 SF)	
PERVIOUS AREAS		
PROPOSED LANDSCAPE AREA	(15,574 SF)	
PROPOSED 4" THICK PERMEABLE CONCRETE	(255 SF)	
PROPOSED 5.5" THICK PERMEABLE CONCRETE	(17,751 SF)	
EXISTING DIRT	(3,124 SF)	

GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: VICTOR RODRIGUEZ-FERNANDEZ DATE: 3/29/19

RCE NO.: 35373
1283 E. MAIN ST., STE 109, EL CAJON, CA 92021
PH: 760-357-2434 FAX: 760-660-4848

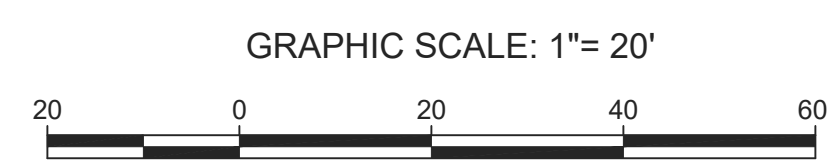


THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: _____ DATE: _____
FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES

AREA DATA

TOTAL LOT AREA	= 46,624 SF
EXISTING IMPERVIOUS AREA	= 0 SF
PROPOSED BUILDING AREA	= 6,400 SF
PROPOSED CONCRETE AREA	= 3,255 SF
PROPOSED RETAINING WALL AREA	= 265 SF
TOTAL PROPOSED IMPERVIOUS AREA	= 9,920 SF
INCREASE IMPERVIOUS AREA	= 9,920 SF
PROPOSED LANDSCAPE AREA	= 15,574 SF
PROPOSED 5" PERMEABLE CONCRETE AREA	= 17,751 SF
PROPOSED 4" PERMEABLE CONCRETE AREA	= 255 SF
TOTAL PROPOSED PERMEABLE AREA	= 33,580 SF
TOTAL DISTURBED AREA	= 43,500 SF



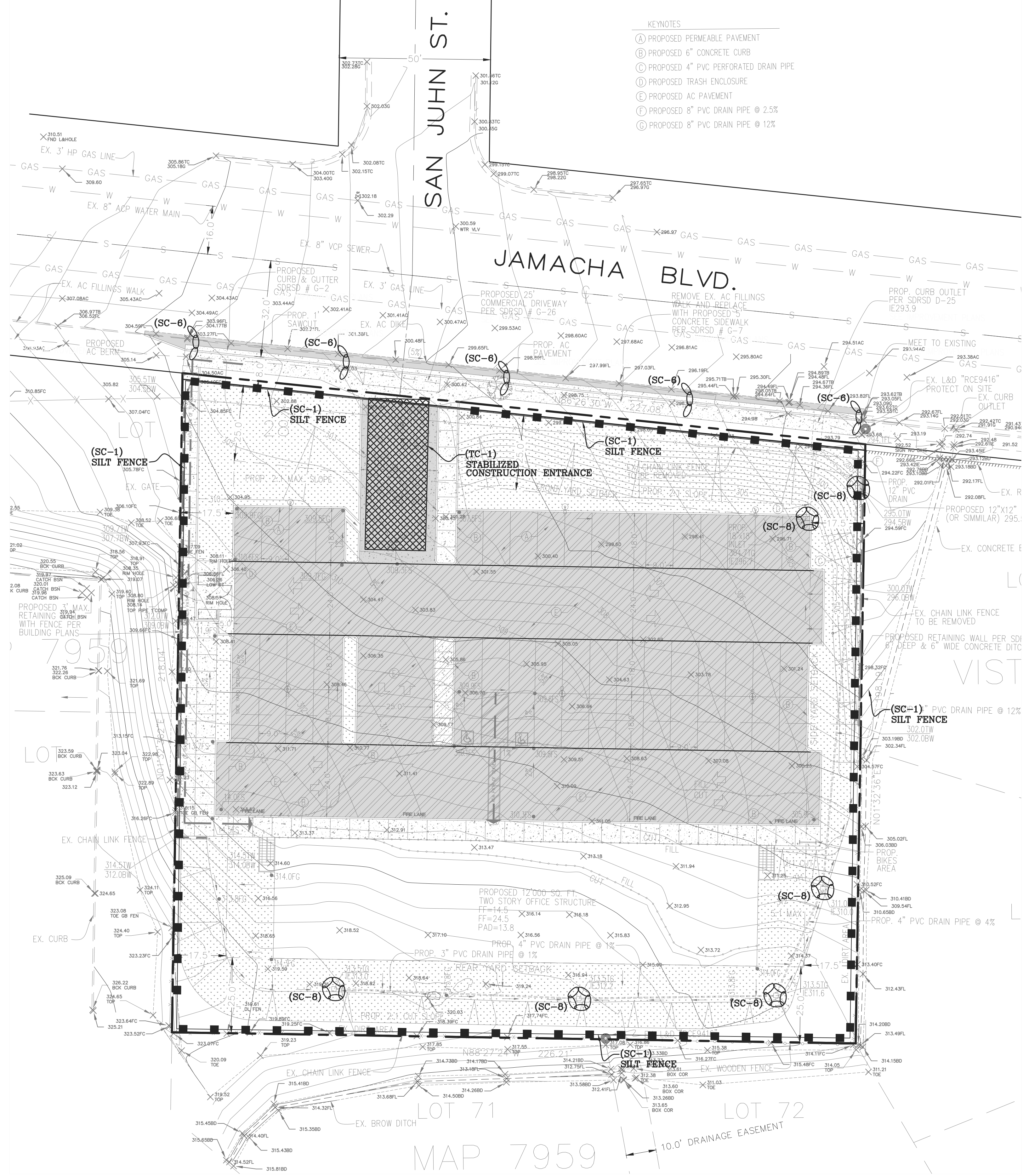
COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET 2	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	SHEETS 4
MINOR GRADING PLAN FOR:					
JAMACHA BOULEVARD					
CALIFORNIA COORDINATE INDEX _____					
APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK	DATE:	VICTOR RODRIGUEZ-FERNANDEZ R.C.E. 35373		
BY:	DATE:	GRADING PERMIT NO:			

VICTOR RODRIGUEZ-FERNANDEZ, P.E. PH: 760-357-2434

BMP LEGEND

- PDS 659 BROW DITCH → →
- PDS 659 BERM → B →
- DIRECTION OF LOT DRAINAGE → →
- MATERIALS & WASTE MANAGEMENT CONTROL BMPs**
- WM-1 MATERIAL DELIVERY & STORAGE
- WM-4 SPILL PREVENTION AND CONTROL
- WM-8 CONCRETE WASTE MANAGEMENT
- WM-5 SOLID WASTE MANAGEMENT
- WM-9 SANITARY WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT
- TEMPORARY RUNOFF CONTROL BMPs**
- SS-2 PRESERVATION OF EXISTING VEGETATION ~PEV~PEV~
- SS-3 BONDED OR STABILIZED FIBER MATRIX (WINTER) ~M~M~
- SS-4 HYDROSEEDING (SUMMER) ~TSP~TSP~
- SS-6/SS-8 STRAW OR WOOD MULCH ~S/W~S/W~
- SS-7 PHYSICAL STABILIZATION (WINTER) ~EBM~EBM~
- SS-10 ENERGY DISSIPATOR
- SC-1 SILT FENCE
- SC-2 SEDIMENT / DESILTING BASIN
- SC-5 FIBER ROLLS FR FR
- SC-6/SC-8 GRAVEL OR SAND BAGS
- SC-7 STREET SWEEPING AND VACUUMING
- SC-10 STORM DRAIN INLET PROTECTION
- NS-2 DEWATERING FILTRATION
- TC-1 STABILIZED CONSTRUCTION ENTRANCE
- TC-2 CONSTRUCTION ROAD STABILIZATION
- TC-3 ENTRANCE / EXIT TIRE WASH
- PERMANENT BMPs**
- SD-10 PROTECTION OF CHANNEL BANKS / MANUFACTURED SLOPES AND FLAT PAD AREA COVERAGE
- SD-12 IMPLEMENTATION OF EFFICIENT IRRIGATION SYSTEMS
- SD-13 STORM DRAIN STENCILING AND POSTING OF SIGNAGE
- SD-32 PROPER DESIGN OF TRASH STORAGE AREAS
- SD-34 PROPER DESIGN OF OUTDOOR MATERIAL STORAGE AREAS
- EC-10 OUTLET PROTECTION
- TC-10 UNDERGROUND INFILTRATION TRENCH
- POST CONSTRUCTION SOURCE CONTROL BMPs**
- 4.2.1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4
- 4.2.2 STORM DRAIN STENCILING AND POSTING OF SIGNAGE
- 4.2.3 PROTECT OUTDOOR MATERIALS STORAGE AREAS
- 4.2.4 PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS
- 4.2.5 PROTECT TRASH STORAGE AREAS
- 4.2.6 ADDITIONAL BMPs BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS:
 - A. ON-SITE STORM DRAIN INLETS
 - B. INTERIOR FLOOR DRAINS & ELEVATOR SHAFT SUMPS
 - C. INTERIOR PARKING GARAGES
 - D. NEED FOR FUTURE INDOOR & STRUCTURAL PEST CONTROL
 - E. LANDSCAPE/OUTDOOR PESTICIDE USE
 - F. POOLS, SPAS, PONDS, FOUNTAINS, AND OTHER WATER FEATURES
 - G. FOOD SERVICE
 - H. TRASH OR REFUSE AREAS
 - I. INDUSTRIAL PROCESSES
 - J. OUTDOOR STORAGE OF EQUIPMENT OR MATERIALS
 - K. VEHICLE AND EQUIPMENT CLEANING
 - L. VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE
 - M. FUEL DISPENSING AREAS
 - N. LOADING DOCKS
 - O. FIRE SPRINKLER TEST WATER
 - P. MISCELLANEOUS DRAIN OR WASH WATER
 - Q. PLAZAS, SIDEWALKS, DRIVEWAYS AND PARKING LOTS
- POST-CONSTRUCTION SITE DESIGN BMPs**
- 4.3.1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
- 4.3.2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION
- 4.3.3 MINIMIZE IMPERVIOUS AREA
- 4.3.4 MINIMIZE SOIL COMPACTION
- 4.3.5 IMPERVIOUS AREA DISPERSION
- 4.3.6 RUNOFF COLLECTION
- 4.3.7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES
- 4.3.8 HARVESTING AND USING PRECIPITATION

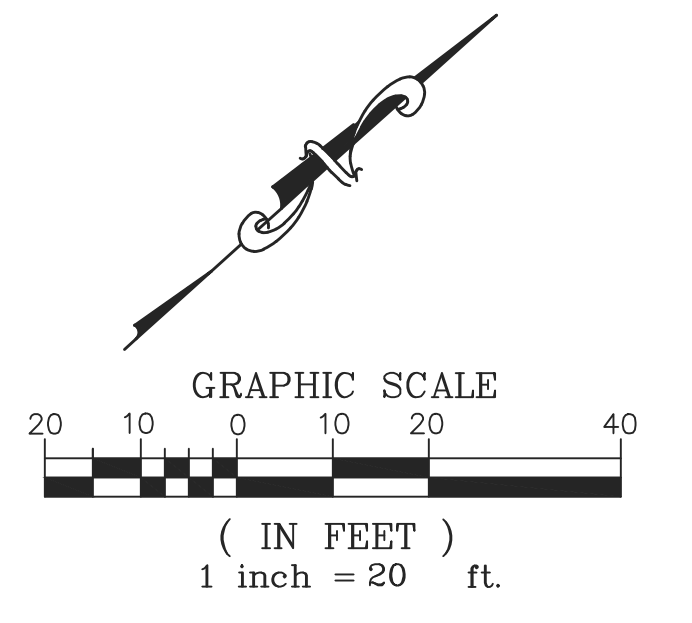
NOTE:
THIS IS A SAMPLE ONLY. SEE COUNTY OF SAN DIEGO STORMWATER BEST MANAGEMENT PRACTICES REFERENCE GUIDE (PUBLICATION PDS 143) FOR ALTERNATE STORMWATER MEASURES. YOUR PROJECT MAY NOT USE ALL OF THE BMP MEASURES SHOWN OR MAY REQUIRE ALTERNATE/ADDITIONAL BMP TYPES GIVEN PROJECT SPECIFICS.



- KEYNOTES**
- (A) PROPOSED PERMEABLE PAVEMENT
 - (B) PROPOSED 6" CONCRETE CURB
 - (C) PROPOSED 4" PVC PERFORATED DRAIN PIPE
 - (D) PROPOSED TRASH ENCLOSURE
 - (E) PROPOSED AC PAVEMENT
 - (F) PROPOSED 8" PVC DRAIN PIPE @ 2.5%
 - (G) PROPOSED 8" PVC DRAIN PIPE @ 12%

BMP LEGEND

DESCRIPTION	QUANTITY	SYMBOL
STABILIZED CONSTRUCTION ENTRANCE (TC-1)	1 E.A.	[Symbol]
SILT FENCE (SC-1)	845 L.F.	[Symbol]
GRAVEL BAGS BARRIER (SC-6)	148 E.A.	[Symbol]
SAND BAGS BARRIER (SC-8)	144 E.A.	[Symbol]



GRADING PLAN CERTIFICATION:

I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY: VICTOR RODRIGUEZ-FERNANDEZ DATE: 3/29/19

RCE NO.: 35373
1283 E. MAIN ST., STE 109, EL CAJON, CA. 92021
PH: 760-357-2434 FAX: 760-660-4848

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY: FOR: MARK WARDLAW, DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES



COUNTY APPROVED CHANGES

DESCRIPTION:	APPROVED BY:	DATE:

PRIVATE CONTRACT

SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	4 SHEETS
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EROSION CONTROL AND CONSTRUCTION BMP PLAN FOR:
RAMOS SINGLE FAMILY RESIDENCE

CALIFORNIA COORDINATE INDEX 170-1749

APPROVED FOR WILLIAM P. MORGAN, COUNTY ENGINEER	ENGINEER OF WORK VICTOR RODRIGUEZ-FERNANDEZ R.C.E. 35373	DATE:
BY:	GRADING PERMIT NO: PDS2017-LDGRMN-20153	DATE:

VICTOR RODRIGUEZ-FERNANDEZ, P.E. PH: 760-357-2434