GENERAL NOTES

- 1. ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF COUNTY GRADING ORDINANCE
- 2. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- 3. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING

PHONE NUMBER: (800) 411-7343 (800) 288-2020 DIEGO GAS AND ELECTRIC AT&T TELEPHONE TIME WARNER CARLE (760) 929-9185 BUENA VISTA SANITATION DISTRICT (760) 639-6111

- 6. A SOILS REPORT WITH COMPACTION TESTS IS REQUIRED FOR ALL FILL OVER 12 IN DEPTH. PDS FORM 73 MINOR GRADING CERTIFICATION AND A COPY OF THE COMPACTION REPORT IS REQUIRED TO BE SUBMITTED PRIOR TO ROUGH GRADING APPROVAL.
- 7. NATURAL DRAINAGE SHALL NOT BE DIVERTED OR CONCENTRATED ONTO ADJACENT PROPERTY.
- 8. ALL GRADING DETAILS SHALL BE IN CONFORMANCE WITH THE FOLLOWING SAN DIEGO COUNTY DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS:

DS-08 LOT GRADING DS-10 GRADING OF SLOPES DS-11 REQUIRED SETBACKS D-40 RIP RAP ENERGY DISSIPATER

- 9. APPROVAL OF THESE PLANS BY THE DIRECTOR OF DEPARTMENT OF PLANNING AND APPROVAL OF THESE PLANS BY THE DIRECTOR OF DEPARTMENT OF PLANNING AND DEVELOPMENT SERVICES (PDS) 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. ISSUANCE OF A GRADING PERMIT SHALL CONSTITUTE AN AUTHORIZATION TO PERFORM ONLY THAT WORK WHICH IS DESCRIBED OR SHOWN ON THE GRADING PERMIT APPLICATION AND APPROVED GRADING PLANS.
- 10. THE DIRECTOR'S 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 (PDS).
- 11. 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 OF LICITIONS.
- 12. 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.
- 13. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE 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 PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
- 14. SLOPE RATIOS:

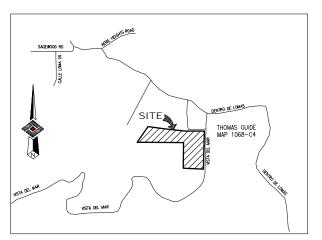
CUT--1 ½: 1 FOR MINOR SLOPES (SLOPES < 15'), 2:1 FOR MAJOR SLOPES.

EXCAVATION: _____3,500___C. Y. FILL: ____3,500___ C. Y. WASTE/IMPORT ___0 ____C. Y.

(NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE PERMIT TO BE ISSUED).

- 15. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO
- 16. PERMANENT POST-CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL FROM THE DEPARTMENT OF PUBLIC OF WORKS.
- 17. REGARDLESS OF WHICH BMPS ARE IMPLEMENTED, ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED AND MAINTAINED WITH GROUND COVER OR OTHER PLANTING IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED.

RESIDENTIAL MINOR GRADING PLAN



VICINITY MAP

- 18.THE ENGINEER—OF—WORK SHALL COMPLY WITH ALL PROJECT APPLICABLE LAWS THAT INCLUDE, BUT ARE NOT LIMITED TO, HEALTH, SAFETY, AND ENVIRONMENTAL LAWS, ORDINANCES, AND REGULATIONS RELATING TO THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, AND U.S. FEDERAL GOVERNMENT. THE PROJECT IS SUBJECT TO ENFORCEMENT UNDER PERMITS FROM THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (RWGOB) AND THE COUNTY OF SAN DIEGO WATERSHED PROTECTION, STORMWATER MANAGEMENT, AND DISCHARGE CONTROL ORDINANCE NO. 10410. COUNTY OF SAN DIEGO HYDRAULIC DESIGN MANUAL, AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS FOR THE LIFE OF THIS PERMIT. THE PROJECT SITE SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS REFERENCED ABOVE AND ALL OTHER APPLICABLE STORMWATER REGULATIONS INCLUDES COMPLIANCE WITH THE APPROVED STORM WATER QUALITY MANAGEMENT PLAN (SWOMP), ALL REQUIREMENTS FOR LOW IMPACT DEVELOPMENT (LID), HYDROMODIFICATION, DETENTION FACILITIES, MATERIALS AND WASTES CONTROL, EROSION CONTROL, AND SEDIMENT CONTROL ON THE PROJECT SITE.
- 19.THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE 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 CLEAN WATER ACT. GRADING AND/OR FURTHER DEVELOPMENT ARE PROHIBITED WITHIN THE AREAS DESIGNATED "LIMITS OF JURISDICTIONAL HABITAT" UNTIL FEDERAL PERMITS AND STATE PERMITS (IF ANY) HAVE BEEN ACQUIRED.
- 20.APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
- 21.FINAL APPROVAL OF THIS GRADING PLAN IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES TO THESE PLANS.
- 22.THE APPLICANT IS RESPONSIBLE FOR THE ROAD MAINTENANCE (SWEEPING AS (.THE APPLICANT IS RESPONSIBLE FOR THE RUAD MAILENANCE (SWEEPING & MECESSARY) AND REPAIR OF ANY DAMAGE CAUSED BY THEM TO THE ON—SITE AND OFF—SITE COUNTY MAINTAINED OR PRIVATE ROADS THAT SERVE THE PROPERTY EITHER DURING CONSTRUCTION OR SUBSEQUENT OPERATIONS. THE APPLICANT WILL REPAIR THOSE PORTIONS OF THE ROUTE THAT WOULD BE DAMAGED BY THE HEAVY LOADS THAT LOADED TRUCKS PLACE ON THE ROUTE IDENTIFIED.

PERMIT NOTE:

REFER TO GENERAL NOTE \$3. A CONSTRUCTION PERMIT MUST BE OBTAINED FOR ANY WORK IN THE COUNTY ROAD RIGHT OF WAY. FUTURE DEVELOPMENT OF THIS PROPERTY MAY REQUIRE ADDITIONAL PERMITS AND REVIEW BY COUNTY OF SAN DIEGO.

DEPARTMENT OF ENVIRONMENTAL HEALTH NOTE: THE PROPERTY OWNER IS AWARE OF THE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH POLOCIES ADN WILL BTAIN DEH APPROVAL DRING BUILDING PERMIT PHASE.

INDEX MAP

OWNER'S CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE

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

BY:	_ DATE:
ASSESSOR'S PARCEL NO. 127-141-40	
NAME: CRAIG MEREDITH	
ADDRESS: PO BOX 1968	
NEWPORT BEACH, CA 92659	
PHONE NUMBER: 714-299-9795	

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: _
	JOHN	s.	RIVERA	
RCE	NO.:_		73878	

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

				DATE:			
OR:	DAHVIA	LYNCH,	DIRECTOR,	DEPARTMENT	OF	PLANNING	&
PEVE	LOPMENT	SERVIC	ES				

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

GRADING PLAN LEGEND:

ITEM	STD.	DWG./DETAIL	SYMBOL
CUT SLOPE			
FILL SLOPE			
PROPERTY LINE			
EASEMENT LINE			
LIMITS OF GRADING & C	UT/FILL LINE		<u>F</u>
DAYLIGHT LINE			— # — — # — —
EXISTING CONTOUR			100
FINISH CONTOUR			100
FLOW LINE ELEVATIONS			<u>* 190.0</u> FL
FINISH ELEVATIONS			* 190.0 FG
ENERGY DISSIPATORSI	DRSD D-40SEE	E PLAN FOR SPECS	
HDPE STORM DRAIN PIPE	ESIZE PER PLA	AN	
FLOW DIRECTION			X.XXX
STRAIGHT HEADWALLSI	ORSD D-30		_
PROPOSED GRAVEL ROAD)		
DISTURBED AREA	CALCULA	TIONS:	

PAD + SLOPES: 8.05	AC
DRIVEWAY: N/A	A0
PRIMARY SEPTIC: N/A	AC
FIRE CLEARING: N/A	AC
TOTAL: 8.05	AC
IF ≥1 AC, PROVIDE WDID# :	

DWELLING UNITS

INDICATE THE NUMBER OF DWELLING UNITS IN PROJECT: 1(EXISTING), 0 (PROPOSED)

INDICATE THE NUMBER OF GRADED PADS IN PROJECT: 4 (PROPOSED) NOTE: NO IMPROVEMENTS NOR STRUCTURES SHALL BE CONSTRUCTED ON THE PROPOSED PADS AND ANY ADDITIONAL WORK OTHER THAN WHAT IS SHOWN ON THIS GRADING PLAN

SOIL ENGINEERING CERTIFICATION:

THE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED. GRADING HAS BEEN PERFORMED IN SUBSTANTIAL CONFORMANCE WITH THE GRADING PLANS. BASED ON THE FINDINGS PRESENTED IN THE PROJECT SOILS REPORT TITLED CODE VIOLATION GEOTECHINICAL INVESTIGATION, 1923 DENTRO DE LOMAS, BONSALL, SAN DIEGO COUNTY CALIFORNIA", DATED DECEMBER 7, 2021, THE SITE IS SUITABLE FOR ITS INTENDED USE

BY:	DATE:
R.C.E. NO.:	EXP.:
BY:	DATE:
C.E.G. NO.:	EXP.:

SHEET INDEX:

PERMITS

___ SWPPP RISK LEVEL

LANDSCAPE PERMIT NO. _ WDID/NOI NO. ___

TENTATIVE MAP NO. 14535

SHEET 1 TITLE SHEET

SITE EXISTING CONDITION

SHEETS 3,4 GRADING PLAN

SHEET 5 EROSION CONTROL AND STORM WATER QUALITY BMP PLAN SHEET 6 EROSION CONTROL NOTES AND TYPICAL BMP DETAILS

	STORMWATER ST	RUCTURAL POL	LUTANT (CONTROL & HYDROMO	DIFICATION CONTROL BMPs
	DESCRIPTION/TYPE	PLAN SHEET	BMP ID#	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT RECORDED DOC#
N	I/A - STD SWQMP				

* BMP'S APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) DATED 1/5/2022 ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWQMP REVISION AND PLAN CHANGE APPROVALS.

L REQUIRE SWQMP REVISION A	ND PLAN CHANGE	A
PRIVATE	CONTRACT	RING
1 DEPARTMENT OF	SAN DIEGO 6 PUBLIC WORKS SHEETS	FNCINFFRIN
TITLE SHEET FOR:		
	VIOLATION O DE LOMAS	FIISION
CALIFORNIA COORDINATE INDEX	398-1707	
APPROVED FOR WILLIAM P. WORGAN. COUNTY ENGINEER	ENGINEER OF WORK:	NAME.
SEE CERTIFICATION	R.C.E.: DATE:	NCINFER'S
	PDS2022-LDGRMN-20336	Z

		OWNE	R /	PERMI	TTEE
νE:	CRAIG	MEREDITH			

ADDRESS: PO BOX 1968 NEWPORT BEACH, CA 92659

TELEPHONE NO: 714-299-9795 SHORT LEGAL DESCRIPTION: PARCEL 1 OF PARCEL MAP NO.14137, IN THE COUNTY

OF SAN DIEGO, STATE OF CALIFORNIA FILED IN THE OFFICE OF THE COUNTY RECORDER, JANUARY 30, 1986 AS FILE NO. 86-039555

APN NO: 127-141-40 SITE ADDRESS: 1923 DENTRO DE LOMAS BONSALL, CA 92003

FUSION ENG TECH 1810 GILLESPIE WAY #207 FL CA JON CA 92020 (619) 736-2800



FIRE DEPARTMENT APPROVAL

RE DISTRICT: NORTH COUNTY FIRE PROTECTION DISTRIC PPROVED BY

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 BUSINES AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CHIEFLY TRANSAPINS.

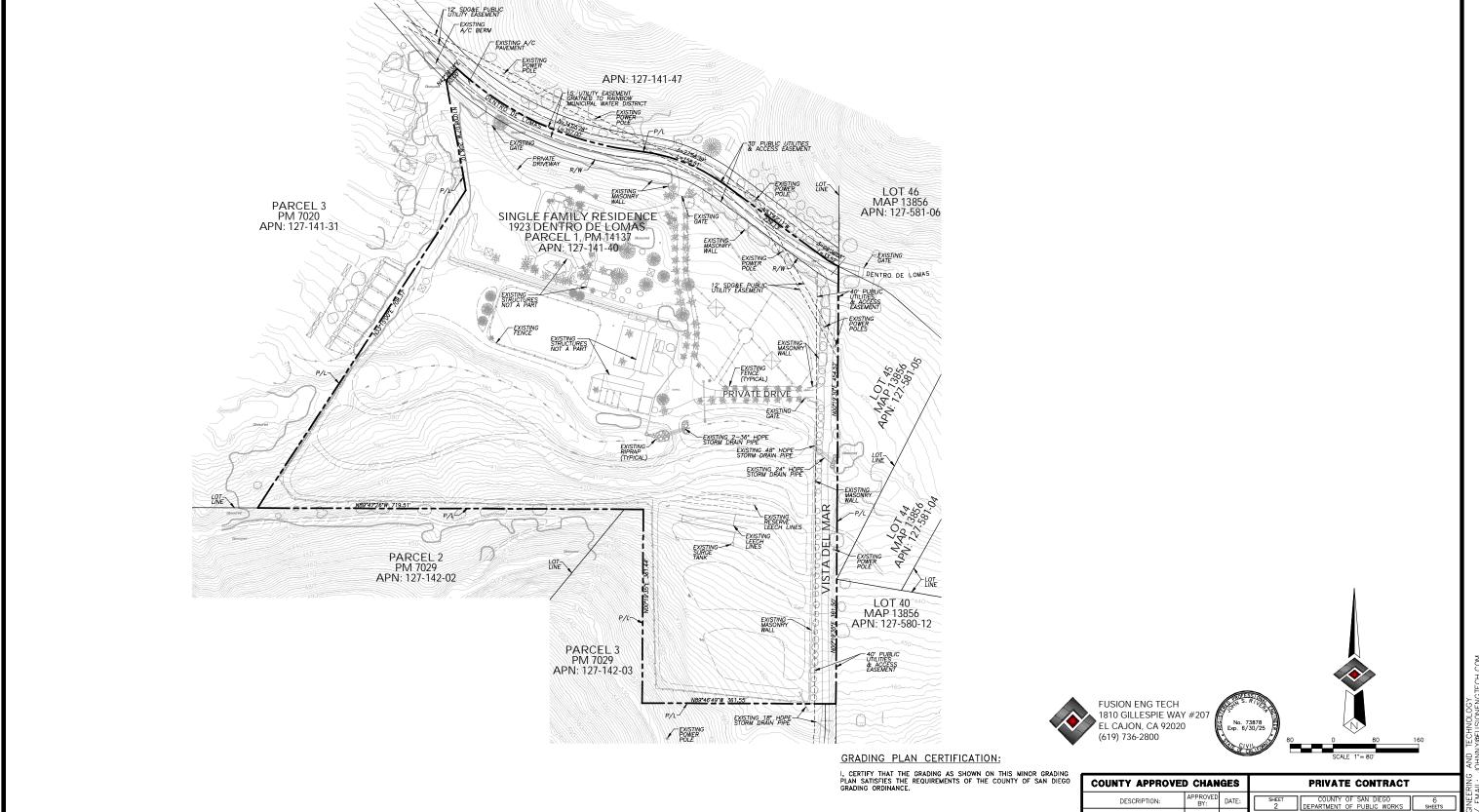
PDS ENVIRONMENTAL REVIEW

THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL BY THE STATE, OR COUNTY LAWS, ORDINANCES, REQUIA, POLICES NOCLUDING, BUT NOT LIMITED TO THE FEDERAL BUDDA ACT AND CLEAN, NATER ACT, GROUND AND/OR THETHER DEVELOPMENT AND THE AUTHORIZE OF THE PERMIT AND THE AUTHORIZE OF THE PERMIT AND THE AUTHORIZE OF THE PERMIT AND THE AUTHORIZE OF THE PERMITS AND STATE PERMITS (IF ANY) ACQUIRED.

COUNTY APPROVED CHANGES APPROVED FOR COMPLIANCE WITH THE ENVIR REVIEW. APPROVED BY:

NO.	DESCRIPTION:	APPROVED BY:	DATE:	BENCH MARK
				DESCRIPTION: CITY OF VISTA SURVEY CONTROL MONUMENT NO.2076
				LOCATION: INTERSECTION OF NORS RANCH ROAD AND DENTRO DE LOMAS
				RECORD FROM: RECORD OF SURVEY MAP NO.14023 ELEVATION: 445.02 DATUM: NGVD 29
	NO.		NO. DESCRIPTION: BY:	pi;

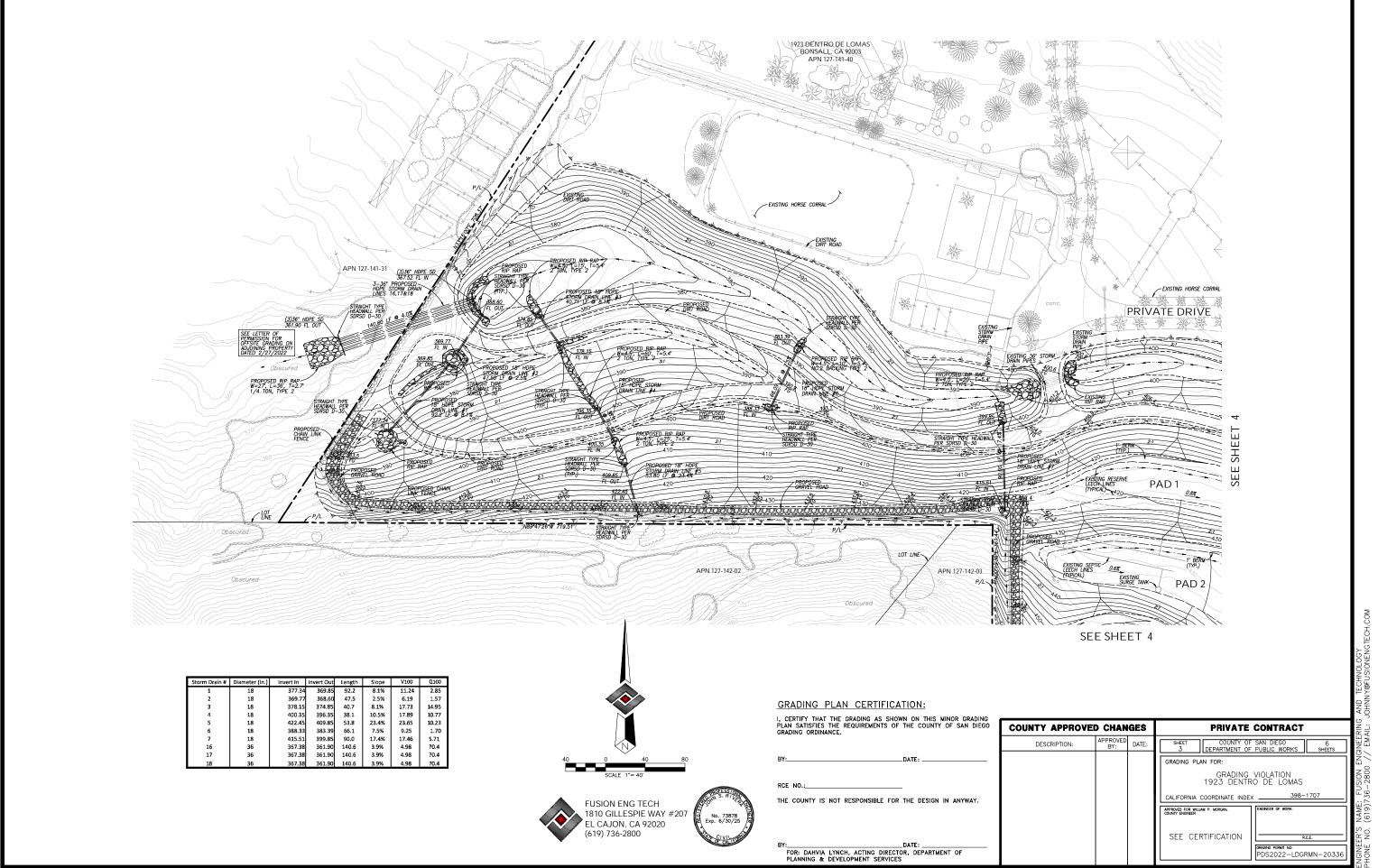
GR MN MN PDS LD (REV. 2/12/24)

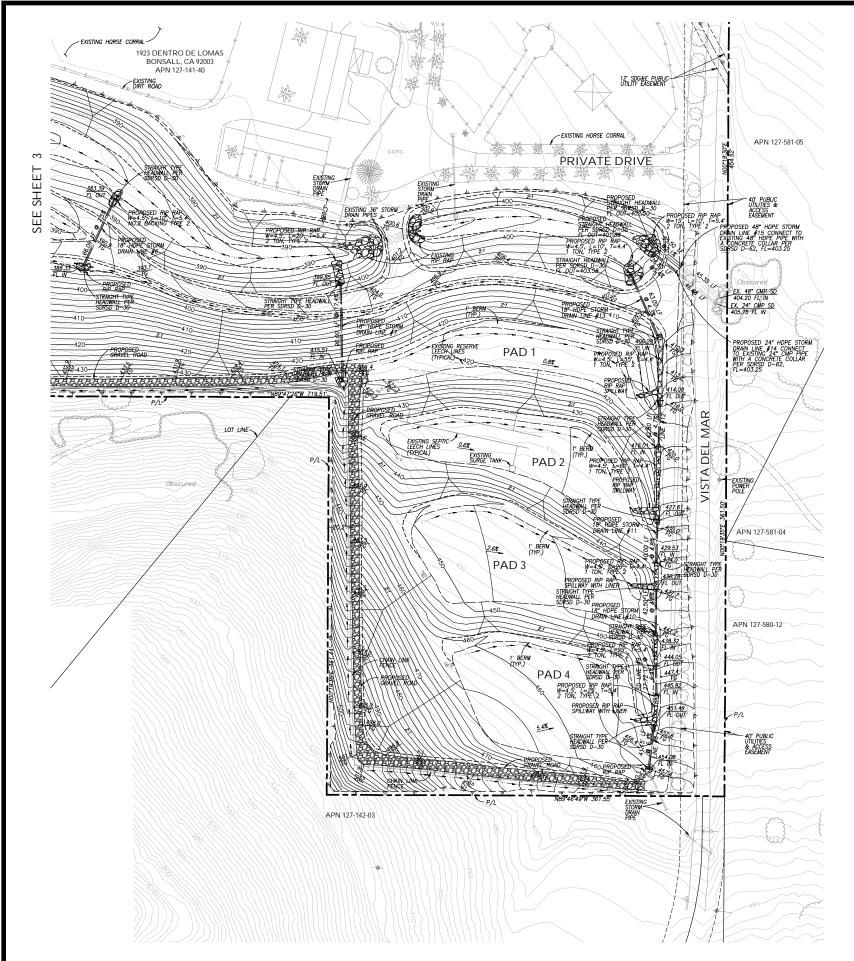


BY:			DAT	E:		
RCE NO.:						
THE COUNTY	IS NOT	RESPONSIBLE	FOR THE	DESIGN	IN	ANYWAY.

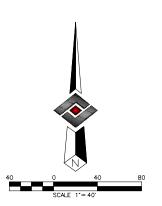
THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.	
BY: DATE:	
FOR: DAHVIA LYNCH, ACTING DIRECTOR, DEPARTMENT OF PLANNING & DEVELOPMENT SERVICES	_
PLANNING & DEVELOPMENT SERVICES	







Storm Drain #	Diameter (in.)	Invert In	Invert Out	Length	Slope	V100	Q100
7	18	415.51	399.85	90.0	17.4%	17.46	5.71
8	18	454.08	451.49	41.2	6.3%	17.89	22.65
9	18	445.82	444.05	27.7	6.4%	17.97	23.28
10	18	438.32	436.28	42.5	4.8%	16.00	23.47
11	18	429.36	427.44	40.0	4.8%	17.90	24.19
12	18	416.01	414.00	42.8	4.7%	15.82	24.59
13	18	406.29	403.58	63.0	4.3%	14.99	25.12
14	24	405.75	401.80	73.7	5.4%	17.96	28.00
15	48	404.20	402.50	80.9	2.1%	17.96	114.86





FUSION ENG TECH 1810 GILLESPIE WAY #207 EL CAJON, CA 92020 (619) 736-2800



GRADING PLAN CERTIFICATION:

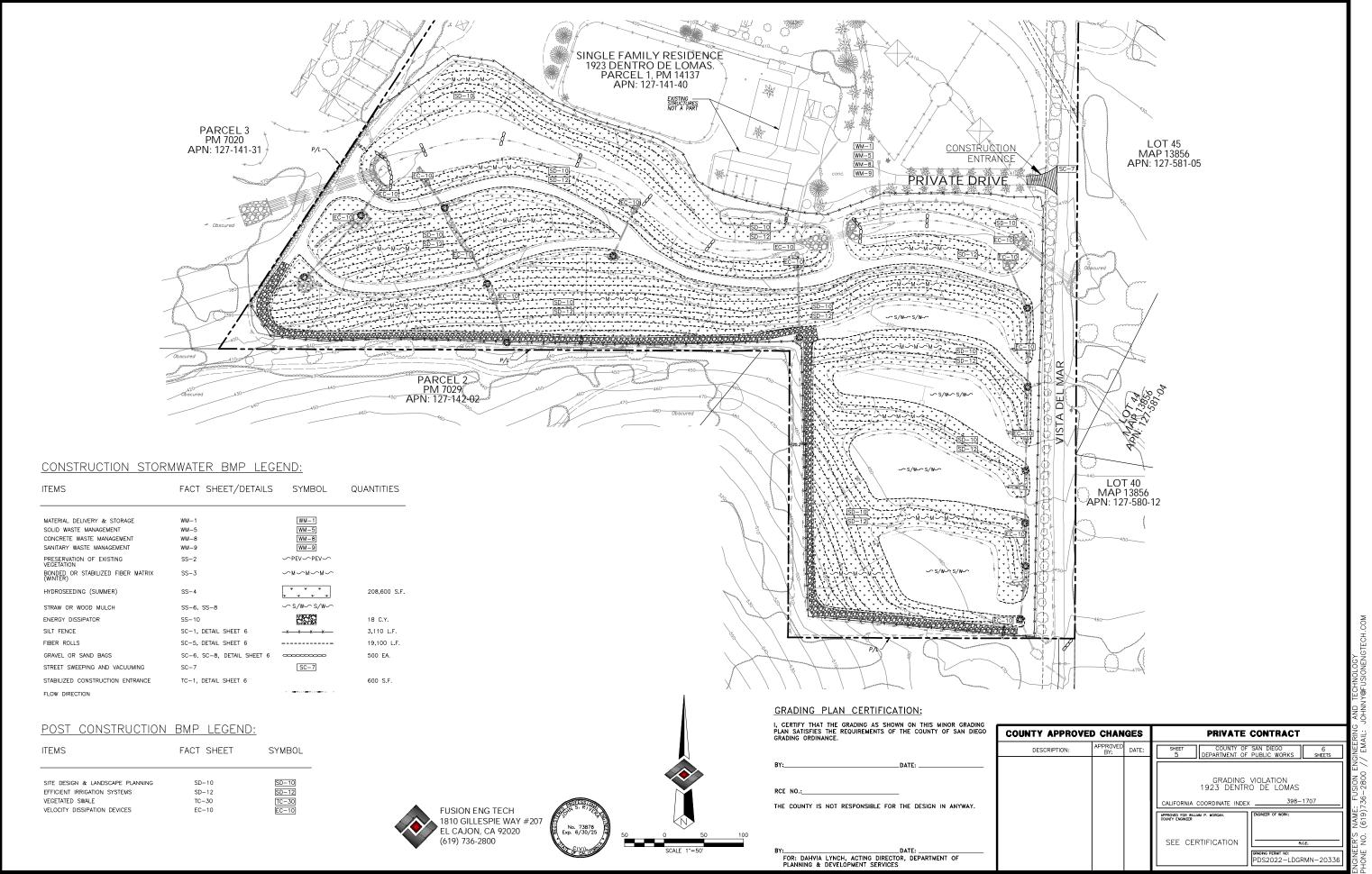
I, CERTIFY THAT THE GRADING AS SHOWN ON THIS MINOR GRADING PLAN SATISFIES THE REQUIREMENTS OF THE COUNTY OF SAN DIEGO GRADING ORDINANCE.

BY:______DATE:_____

RCE NO.:_____

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

COUNTY APPROVED CHANGES			PRIVATE CONTRACT		
DESCRIPTION:	APPROVED BY:	DATE:	SHEET COUNTY OF SAN DIEGO 6 DEPARTMENT OF PUBLIC WORKS SHEETS		
			GRADING PLAN FOR:		
			GRADING VIOLATION 1923 DENTRO DE LOMAS		
	CALIFORNIA COORDINATE INDEX398-170				
			APPROVED FOR WILLIAM P. MORGAN. COUNTY ENGINEER ENGINEER OF WORK:		
			SEE CERTIFICATION R.C.E.		
			PDS2022-LDGRMN-20336		



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
- 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
- SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAYED STREETS WITH GRADEINTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF
- 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.

PLANTING & IRRIGATION NOTES

ALL PERMANENT AND TEMPORARY EROSION CONTROL PLANTING AND IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTIONS 87.417 AND 87.418 OF THE COUNTY'S GRADING ORDINANCE AND SHALL BE COMPLIANT WITH THE COUNTY'S WATER CONSERVATION IN LANDSCAPE ORDINANCE, THE WATER EFFICIENT LANDSCAPE DESIGN MANUAL, AND THE BMP DESIGN MANUAL:

A. SLOPE EROSION CONTROL:

- 1. AT A MINIMUM ALL MANUFACTURED SLOPE AREAS SHALL BE COVERED MITHIN 10 DAYS OF COMPLETION OF GRADING WITH HYDROSEED/MULCH, PUNCHED STRAW MULCH, JUTE NETTING OR OTHER APPROVED GEOTEXTILE MATERIAL CAPABLE OF CONTROLLING SURFACE SOIL EROSION;
- a. EXCEPT WHERE APPROVED OTHERWISE, ALL SLOPES AND ANY OTHER AREAS DISTURBED IN CONJUNCTION WITH GRADING ACTIVITIES SHALL BE MAINTAINED UNTIL VEGETATION IS WELL ESTABLISHED, WITH COVERAGE EQUAL TO AT LEAST 70 PERCENT OF COVERAGE, AS COMPARED TO THE NATIVE BACKGROUND PLANTS IS ACHIEVED. THIS THRESHOLD MUST BE MET BEFORE OCCUPANCY OF THE SITE WILL BE PERMITTED;
- A MINIMUM OF 50 PERCENT OF THE TOTAL SLOPE AREAS OF MANUFACTURED SLOPES SHALL BE PLANTED WITH DEEP ROOTING PLANTINGS (I.E., THOSE WITH A TYPICAL ROOT DEPTH OF APPROXIMATELY 5 FEET OR GREATER). FOR SEEDED PLANTINGS. AT LEAST 50 PERCENT OF THE VIABLE SEED COUNT SHALL BE DEEP ROOTING SPECIES;
- ALL PLANT MATERIALS ON MANUFACTURED SLOPES SHALL BE APPROPRIATE TO THE SITE CONDITIONS, SHALL BE WATER EFFICIENT WHEN ESTABLISHED AND SHALL BE ADEQUATELY SPACED TO CONTROL SOIL EROSION;
- d. ALL SLOPES IN EXCESS OF 15 FEET SHALL BE PLANTED WITH ROOTED CONTAINER STOCK AT AN AVERAGE RATE OF ONE PER 100 SQUARE FEET UNLESS APPROVED OTHERWISE. CONTAINERS SHALL BE A MINIMUM OF ONE GALLON FOR SHRUBS AND FIVE GALLON FOR TREES. ALL CONTAINER STOCK SHALL BE PROVIDED WITH A TEMPORARY IRRIGATION
- b. SLOPES GREATER THAN 25 PERCENT SHALL NOT BE IRRIGATED WITH AN IRRIGATION SYSTEM WITH A PRECIPITATION RATE EXCEEDING 0.75 INCHES PER HOUR.

- ALL IRRIGATION SYSTEMS SHALL BE INSTALLED TO AVOID RUNOFF, SEEPAGE, LOW HEAD DRAINAGE, OVER-SPRAY OR OTHER SIMILAR CONDITIONS ONTO ADJACENT PROPERTY, NON-IRRIGATED AREAS, WALKS,
- APPROVED BACKFLOW PREVENTION UNITS ARE REQUIRED ON ALL POTABLE WATER IRRIGATION SYSTEMS;
- AFTER PLANT ESTABLISHMENT, THE IRRIGATION SYSTEM IS TO PROVIDE SUFFICIENT WATER TO SUSTAIN PLANTS IN A HEALTHY, GROWING
- 4. LANDSCAPE WATER METERS, SHALL BE INSTALLED FOR ALL NON-RESIDENTIAL IRRIGATED LANDSCAPES OF 1,000 SQ. FT. OR MORE, AND FOR ALL RESIDENTIAL IRRIGATED LANDSCAPES OF 5,000 SQ. FT. OR GREATER. A LANDSCAPE WATER METER SHALL BE EITHER A CUSTOMER SERVICE METER DEDICATED TO LANDSCAPE USE PROVIDED BY THE LOCAL WATER PURVEYOR; OR A PRIVATELY OWNED METER OR SUB-METER;
- 5. FLOW SENSORS THAT DETECT AND REPORT HIGH FLOW CONDITIONS CREATED BY SYSTEM DAMAGE OR MALFUNCTION ARE REQUIRED FOR ALL NON-RESIDENTIAL LANDSCAPES, AND RESIDENTIAL LANDSCAPES OF 5,000 SQ. FT. OR LARGER;
- 6. MASTER SHUT-OFF VALVES ARE REQUIRED;
- AUTOMATIC CONTROL SYSTEMS ARE REQUIRED, AND MUST BE ABLE TO ACCOMMODATE ALL ASPECTS OF THE INSTALLED EROSION CONTROL LANDSCAPE, INCLUDING MULTIPLE SCHEDULES, REPEAT CYCLES, EVAPOTRANSPIRATION OR SOIL MOISTURE SENSING AND RAIN SENSING OVERRIDE DEVICES. CONTROL MECHANISMS FOR AN EVAPOTRANSPIRATION OVERRIDE DEVICES. CONTROL MECHANISMS FOR AN EVAPOTRANSPIRATION (WEATHER BASED) SYSTEM OR SOIL MOISTURE DETECTING SYSTEMS, UTILIZING NON-VOLATILE MEMORY SHALL BE ACCOMMODATED WITHIN THE CONTROLLER ENCLOSURE. BATTERY OPERATED VALVES OR SOLAR POWERED CONTROLLERS MAY BE USED IN AREAS WHERE ELECTRICITY IS NOT YET AVAILABLE, HOWEVER, WHEN AVAILABLE, SYSTEMS SHALL BE CONVEPTED.

- 8. ALL IRRIGATION SYSTEMS SHALL BE ADJUSTED SEASONALLY AND AS WEATHER AND PLANT CONDITIONS WARRANT;
- 9 SHUTGER VALVES SHALL BE PROVIDED AT POINTS OF CONNECTION TO DIVIDE THE IRRIGATION SYSTEM INTO CONTROLLABLE UNITS. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED FOR ALL IRRIGATION
- 10. ALL PIPE AND WIRE UNDER VEHICULAR PAVING SHALL BE INSTALLED IN PVC SCHEDULE 40 SLEEVES. SLEEVES SHALL BE AT LEAST TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLES TO BE ENCLOSED;
- 11. PERMANENT ON-GRADE SYSTEMS MAY ONLY BE ALLOWED FOR AREAS WITH HIGHLY EROSIVE OR ROCKY SOILS AND SHALL NOT BE ALLOWED ADJACENT TO PEDESTRIAN TRAFFIC;
- 12. ALL ON-GRADE LINES SHALL BE SECURED TO SLOPES EVERY TEN FEET OR LESS. THE ENDS OF ALL LATERALS SHALL ALSO BE STAKED;
- 13. ON-GRADE LATERAL PIPING IS ALLOWED FOR TEMPORARY SYSTEMS;
- 14. ALL REQUIRED LANDSCAPING SHALL BE PLANTED AND IRRIGATION SYSTEMS INSTALLED PRIOR TO THE ROUGH GRADING INSPECTION. THE COUNTY OFFICIAL SHALL DETERMINE AT FINAL GRADING INSPECTION THAT PLANTING IS ESTABLISHED AND THAT ALL IRRIGATION SYSTEMS ARE OPERATIONAL;
- C. SLOPE HYDROSEEDING MIX SHALL CONSIST OF THE FOLLOWING:
- NON-IRRIGATED SEED MIX SHALL NOT BE ALLOWED AND NO INVASIVE, FIRE PRONE SPECIES SHALL BE INCLUDED;
- a. 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.
- b. NON-PHYTO-TOXIC WETTING AGENTS MAY BE ADDED TO THE HYDROSEED SLURRY AT THE DISCRETION OF THE CONTRACTOR.
- 3. 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 ANCHORDED 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
 - $\ensuremath{\mathtt{a}}.$ Roughening the surface to be planted by any or combination of:

 - G.G. TRACK WALKING SLOPES STEEPER THAN 6:1
 G.B. HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLY FRIABLE.
 - a.c. RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a.a. OR a.b. ABOVE.
- 6. CONDITION THE SOILS SO THAT IT IS SUITABLE FOR PLANTING BY:
- a. ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP
- BUT NOT SATURATED SEED BED.

 b. THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDED VIABLE CONDITIONS FOR GROWTH.
- HYDROSEEDED AREAS SHALL BE MAINTAINED TO PROVIDE A VIGOROUS GROWTH UNTIL THE PROJECT IS PERMANENTLY LANDSCAPED OR, FOR AREAS WHERE HYDROSEEDING IS THE PERMANENT LANDSCAPING, UNTIL THE PROJECT IS COMPLETED AND ALL GRADING BONDS RELEASED.

HYDROSEED NOTES:

- PRIOR TO THE ACCEPTANCE OF THE HYDROSEEDED AREAS BY THE COUNTY, A CERTIFICATION REPORT MUST BE SUBMITTED BY A REGISTERED LANDSCAPE ARCHITECT, STATING THAT THE HYDROSEEDING WAS DONE ACCORDING TO THE PROJECT SPECIFICATIONS AND THAT THE GROWTH IS ADEQUATELY ESTABLISHED TO PREVENT EROSION.
- ALL DISTURBED SLOPES TO BE HYDROSEEDED UNLESS OTHERWISE NOTED.

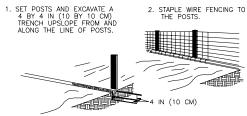
PLANT LEGEND:

- ** PROVIDE A PLANT LEGEND WITH BOTH BOTANICAL AND COMMON NAMES LISTED ALONG WITH SYMBOLS FOR IDENTIFICATION AND LOCATION. PROVIDE CONTAINER SIZES, QUANTITIES OF EACH SPECIES, AND ON CENTER SPACE REQUIREMENTS. NO INVASIVE OR FIRE PRONE SPECIES SHALL BE INTRODUCED TO THE SITE.
- ** PROVIDE A PLANT LEGEND OF ALL PROPOSED HYDROSEED SPECIES WITH BOTH BOTANICAL AND COMMON NAMES LISTED. INCLUDE POUNDS PER ACRE FOR EACH SEED SPECIES. NO INVASIVE OR FIRE PRONE SPECIES SHALL BE INTRODUCED TO SITE.

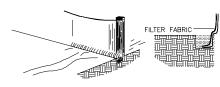
VEGETATION STABILIZATION (PLANTING OR HYDROSEEDING) MAY BE INSTALLED BETWEEN MAY 1ST AND AUGUST 15TH. SLOPE IRRIGATION MUST BE IN PLACE AND TO BE OPERABLE FOR SLOPES >3'. VEGETATION MUST BE WATERED AND ESTABLISHED PRIOR TO OCTOBER 1ST. THE OWNER SHALL SUPPLEMENT VEGETATION WITH BARK OR MULCH BY OCTOBER 1ST IF VEGETATION ESTABLISHENT DOES NOT OCCUR BY THAT DATE. EROSION CONTROL MEASURES MUST ALSO BE USED WHILE LANDSCAPING IS BEING ESTABLISHED. ESTABLISHED VEGETATION SHALL HAVE A SUBSURFACE MAT OF INTERTWINED MATURE ROOTS WITH A UNIFORM VEGETATION COVERAGE OF 70% OF THE NATURAL VEGETATIVE COVERAGE OR MORE ON ALL DISTURBED AREAS.

ALL SLOPES OVER THREE FEET MUST HAVE ESTABLISHED VEGETATIVE COVER PRIOR TO FINAL PERMIT APPROVAL

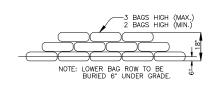
TYPICAL BMP DETAILS



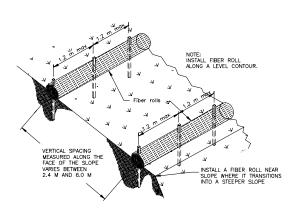
3 ATTACH THE FILTER FARRIC TO THE WIRE FENCE AND EXTEND IT 4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



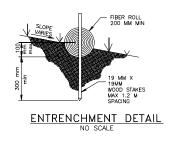
SILT FENCE

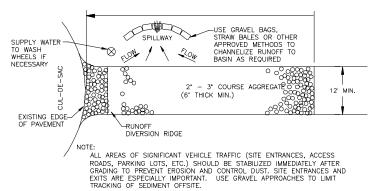


GRAVEL BAG CHECK DAM



TYPICAL FIBER ROLL INSTALLATION





STABILIZED CONSTRUCTION ENTRANCE

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.

DATE: RCE NO.: THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANYWAY.

BY:	DATE:	
	LYNCH, ACTING DIRECTOR, DEPARTMENT DEVELOPMENT SERVICES	OF

COUNTY APPROVED CHANGES			PRIVATE CONTRACT			
DESCRIPTION:	APPROVED BY:	DATE:		6 EETS		
			GRADING VIOLATION 1923 DENTRO DE LOMAS			
			CALIFORNIA COORDINATE INDEX 398-1707 APPROVED FOR MILIAN P. MORGAN. COUNTY ENGINEER OF WORK:			
			SEE CERTIFICATION GROON PERMIT NO: PDS2022-LDGRMN-2	20336		

FUSION ENG TECH 1810 GILLESPIE WAY #207 EL CAJON, CA 92020 (619) 736-2800

EMAIL: (619)736-2800 //