GENERAL NOTES

- ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF COUNTY GRADING ORDINANCE SECTION 87.101 THROUGH 87.804.
- 2. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- 3. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC
- 4. 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.
- 5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING

AN DIEGO GAS AND ELECTRIC &T TELEPHONE	PHONE NUMBER: 1-800-411-734 1-800-288-2020
ATV (AGENCY NAME) EWER (COUNTY OF SAN DIEGO) ATER (COUNTY OF SAN DIEGO)	1-858-514-499 1-619-515-352

- 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.
- 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 COT GRADING
DS-10 GRADING OF SLOPES
DS-11 REQUIRED SETBACKS
D-40 RIP RAP ENERGY DISSIPATER
D-75 DRAINAGE DITCH

- . 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. 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 OF PUBLIC WORK'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 WAVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAVER 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 OR HOLIDAYS.
- 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 STILLING, 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 1/2: 1 FOR MINOR SLOPES (SLOPES < 15"), 2:1 FOR MAJOR SLOPES.

FILL --2:1

EXCAVATION: 13,500 C. Y. FILL: 13,500 C. Y. WASTE/IMPORT 0 C. Y.

(NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS BEFORE

- 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.

GRADING PLAN DESILT POND

PER CODE ENF. CASE #PDS 2012-RFS-12-0074833

- 18. THE APPLICANT IS RESPONSIBLE FOR THE ROAD MAINTENANCE (SWEEPING AS NECESSARY) AND REPAIRS 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.
- 19. 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 CALFORNIA, AND U.S. FEDERAL GOVERNMENT. THE PROJECT IS SUBJECT TO ENFORCEMENT UNDER PERMITS FROM THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (RWQGB) 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 SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS REFERENCED ABOVE AND ALL OTHER APPLICABLE ORDINANCES AND STANDARDS. THIS INCLUDES COMPLIANCE WITH THE APPROVED STORM WATER GUALITY MANAGEMENT PLAN (SWOMP) ALL WITH THE APPROVED STORM WATER QUALITY MANAGEMENT PLAN (SWQMP), ALL REQUIREMENTS FOR LOW IMPACT DEVELOPMENT (LID), HYDROMODIFICATION, DETENTION FACILITIES, MATERIALS AND WASTES CONTROL, EROSION CONTROL, AND SEDIMENT CONTROL ON THE PROJECT SITE.
- 20. THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR THE PERMIT/APPROVAL THE 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.
- 21. 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

VECTOR CONTROL NOTES

EACH OF THE FOLLOWING CONDITIONS MUST BE MET BY PARCEL (APN 523-120-28). THE PROPERTY OWNER(S) NEEDS TO PREVENT MOSQUITO BREEDING BY CONTROLLING THE VEGETATION IN CONSTRUCTED WATER DETENTION BASINS.

- 1. REMOVE WET BASIN EMERGENT VEGETATION SEMI-ANNUALLY (EARLY SPRING AND FALL) OR AS RECOMMENDED BY SAN DIEGO COUNTY, VECTOR SURVEILLANCE AND CONTROL.
- NO MORE THAN 50% OF THE SURFACE AREA OF ANY STANDING WATER SHALL HAVE EMERGENT VEGETATION, E.G. CATTAILS, SEDGES, ETC.
- 3. EMERGENT VEGETATION CAN BE CONTROLLED BY PULLING, EITHER MECHANICALLY OR BY HAND; OR FREQUENT CLEAR CUTTING, PULLING THE VEGETATION, IS RECOMMENDED RATHER THAN CUTTING, AS IT TENDS TO GROW BACK MORE QUICKLY AND AT GREATER DENSITY AFTER CUTTING. HERBICIDES MAY BE USED AS NEEDED TO CONTROL VEGETATION PROVIDES MOSQUITO LARVAE A BETTER HABITAT AND REFUGE FROM PREDATION BY MOSQUITO FISH
- 4. WET BASINS SHOULD BE CONSTRUCTED WITH 2:1 SLOPE AND MAINTAIN A MINIMUM FOUR FOOT DEPTH TO CONTAIN VEGETATION WITHIN THE PRESCRIBED ZONE
- 5. WET BASIN CONSTRUCTION SHOULD INCLUDE BARRIERS SUCH AS, FENCES OR WALLS, TO PREVENT ENTRY OF ANY UNAUTHORIZED PERSONS. OPEN BODIES OF WATER WILL OFTEN ATTRACT THE ATTENTION OF PEOPLE WHO IN TURN, RELEASE GAME FISH, WHICH PREDATE
- 6. REMOVE SILT AS NEEDED TO MAINTAIN PROPER WATER DEPTH

OWNERS 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 THE PROPER COMPLETIONS OF THE IMPROVEMENTS.

BY:	DATE:
ASSESSOR'S PARCEL	NO. 523-120-28-00, 523-120-32-00
NAME:	McKEAN NATURAL GAS INC.
ADDRESS:	P.O. BOX 104
	SOLANA BEACH, CA., 92075
PHONE NUMBER:	(858) 277-0441

SITE VICINITY MAP 1255, F3, G3, F4, NO SCALE

OPERATION AND MAINTENANCE NOTES

- 1. PERIODIC MAINTENANCE IS NECESSARY TO MAINTAIN SATISFACTORY PERFORMANCE. THE FOLLOWING MAINTENANCE PROGRAM IS REQUIRED.
- PERIODICALLY INSPECT THE SPILLWAYS AND YARD DRAIN OUTLET FOR PROPER FUNCTIONING TO ASSURE THEIR ABILITY TO MAINTAIN THE WATER LEVEL TO DESIGN ELEVATIONS.
- 3. IMMEDIATELY REMOVE ANY BLOCKAGE OR OBSTRUCTION IN SPILLWAY OR YARD DRAIN OUTLET.
- MAINTAIN VIGOROUS CONTROL OF VEGETATIVE COVERINGS. THIS INCLUDES APPLICATION OF HERBICIDES WHEN NECESSARY, PERIODIC MOWING MAY ALSO BE NEEDED TO CONTROL HEIGHT. NO TREES, BUSHES, OR SHRUBS ARE ALLOWED ON DAM.

 REMOVAL OF DEBRIS THAT MAY ACCUMULATE AT THE DESILT BASIN AND IMMEDIATELY UPSTREAM OR DOWNSTREAM FROM THE DESILT BASIN.
- 6. MAINTAIN DESILTING BASIN TO MINIMIZE VEGETATION BLOCKING THE SPILLWAY.
- 7. CLEAN DESILTATION BASINS REGULARLY TO REMOVE SILT AND POLLUTANTS.
- IMMEDIATELY REPAIR ANY VANDALISM, VEHICULAR, OR LIVESTOCK DAMAGE TO ANY EARTHFILLS, SPILLWAYS. OUTLETS OR OTHER APPURTENANCE.
- MAKE SURE ALL STRUCTURE DRAINS ARE FUNCTIONAL AND SOIL IS NOT BEING TRANSPORTED THROUGH THE DRAINAGE SYSTEM
- ERADICATE OR OTHERWISE REMOVE ALL RODENTS OR BURROWING ANIMALS AND REPAIR ANY DAMAGE CAUSED TO THE BERM AND SPILLWAY BY THEIR ACTIVITY.
- 11. DESILTING BASIN SHALL BEINSPECTED YEARLY FOR INFESTATION OF RODENTS (I.E. GROUND SQUIRRELS) TO PREVENTMALFUNCTION OF BASIN.

SCOPE OF WORK - 2001

- CONSTRUCT DESILT POND.
 CONSTRUCT OVERFLOW CHANNEL BYPASS.
 HYDROSEED GRADED AREA.

SCOPE OF WORK - 2018

. INSTALL 2-6" LOW-FLOW DRAINS THROUGH BERM. L. INSTALL D-40 ENERGY DISSAPATOR FOR LOW-FLOW DRAINS.

PROPOSED CLEANING & GRUBBING AREA 2,800 PAD + SLOPES: PROPOSED DISTURBED AREA CALCS 0 0 0 2,800

AS-BUILT CLEANING & GRUBBING AREA PAD + SLOPES: 128,300 SE

AS DOIL	DISTORDED MILEN	OFILE
PAD + SLOPES:	128,300	SF
DRIVEWAY:	0	SF
PRIMARY SEPTIC:		SF
FIRE CLEARING:	0	5F
	128 300	0.
TOTAL:		_ 51
IF > 1 AC PROVI	DE WDID# : 937C32136	59

AS-BUILT DISTURBED AREA CALCS

	-
	* BMP'S
	DATED O
	SWOMP

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 LEGEND:		
ITEM	STD. DWG.	SYMBOL
CUT SLOPE:		YYY
FILL SLOPE		
PROPERTY LINE		
LIMITS OF GRADING & CUT/FI	LL LINE	
DAYLIGHT LINE		
EXISTING CONTOUR		330
FINISH CONTOUR		[338]
FINISH ELEVATIONS		340.0
RIP-RAP I)-40, TYPE 2	

PROJECT DESCRIPTION

THIS PROJECT WILL UTILIZE A DESILTING POND TO REDUCE EROSION AND SEDIMENT IN LOW-FLOW CONDITIONS TO A NATURAL CANYON.

FOR IMPORT/EXPORT EARTHWORK Q>1,000 C.Y., NOTES REQUIRED AS FOLLOWS:

TRAFFIC CONTROL NOTES:

PRIOR TO BEGINNING OF GRADING, SUBMIT A TRAFFIC CONTROL PLAN AND HAUL ROUTE TRAFFIC DIVISION, DEPARTMENT OF PUBLIC WORKS (DPW) FOR APPROVAL

- 2. ANTICIPATED LENGTH OF GRADING PERIOD INVOLVING THE NEED FOR TRUCK IMPORTS OF SOIL.
- 4. EXISTING CONDITIONS OF THE IMPACTED ROAD AREAS INCLUDING TRAFFIC AND ROAD
- 5. TRAFFIC SAFETY INCLUDING SAFETY TO RESIDENTS ON FOOT, ON BICYCLE AND IN VEHICLES, AND POSSIBLE MITIGATION FOR AVOIDANCE OF SIGNIFICANT PEAK HOUR TRAFFIC AT CERTAIN INTERCHANGES.
- 6. INTERCHANGE GEOMETRY TO DETERMINE IF IT WILL ALLOW SAFE USE BY THE TRUCKS.

ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH THE SAN DIEGO COUNTY STANDARD DRAWINGS DS-8, DS-9, DS-11, AND DS-75.

	SHEET INDEX
SHEET 1	TITLE SHEET
SHEET 2	SITE PLAN
SHEET 3	GRADING PLAN
SHEET 4	EROSION CONTROL BMP STDS & NOTES
SHEET 5	TEMPORARY EROSION CONTROL
SHEET 6	LANDSCAPING PLAN

STORMWATER STRUCTURAL	POLLUTANT	CONTROL	& HYDROMODI	FICATION BMPS
DESCRIPTION/TYPE	PLAN SHEET	BMP ID#	MAINTENANCE CATEGORY	MAINTENANCE AGREEMENT RECORDED DOC
STANDARD SWQMP			4 4 5	ar Aren.
N/A				

APPROVED AS PART OF THIS STORMWATER QUALITY MANAGEMENT PLAN (SWQMP

NAME:	McKEAN NATURAL GAS INC.
ADDRESS:	P.O. BOX 104
re dudi li	SOLANA BEACH, CA., 92075
	(858) 277-0441
TELEPHONE NO:	(636) 277-0441
	CIPTION: THOSE PORTIONS OF SECTION 11 IN TOWNSHIP 16 SOUTH, RANGE 3 S.B.M. IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA
PARCE	L B OF COUNTY OF SAN DIEGO PLAT BC-01-0228
A.P.N. NO:	523-120-28-00, 523-120-32-00
SITE ADDRESS:	23137 JAPATUL VALLEY RD. ALPINE, CA 91901

OWNER'S / PERMITTEE'S

CE/	CIVIL ENGNEERING PLANNING LAND SURVEYING 8369 WOKERS STREET, SUITE C, SAN DIEBO, CALIFORNIA 92111 PHONE: (858) 277-0441	
COASTAL EN	GINEERING ASSOCIATES	

FIRE DEPARTMENT APPROVAL

FIRE DEPT. / DISTRICT.

DECLARATION OF RESPONSIBLE
CHARGE
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXCERCISED RESPONSIBLE CHARGE OVER TH DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BI

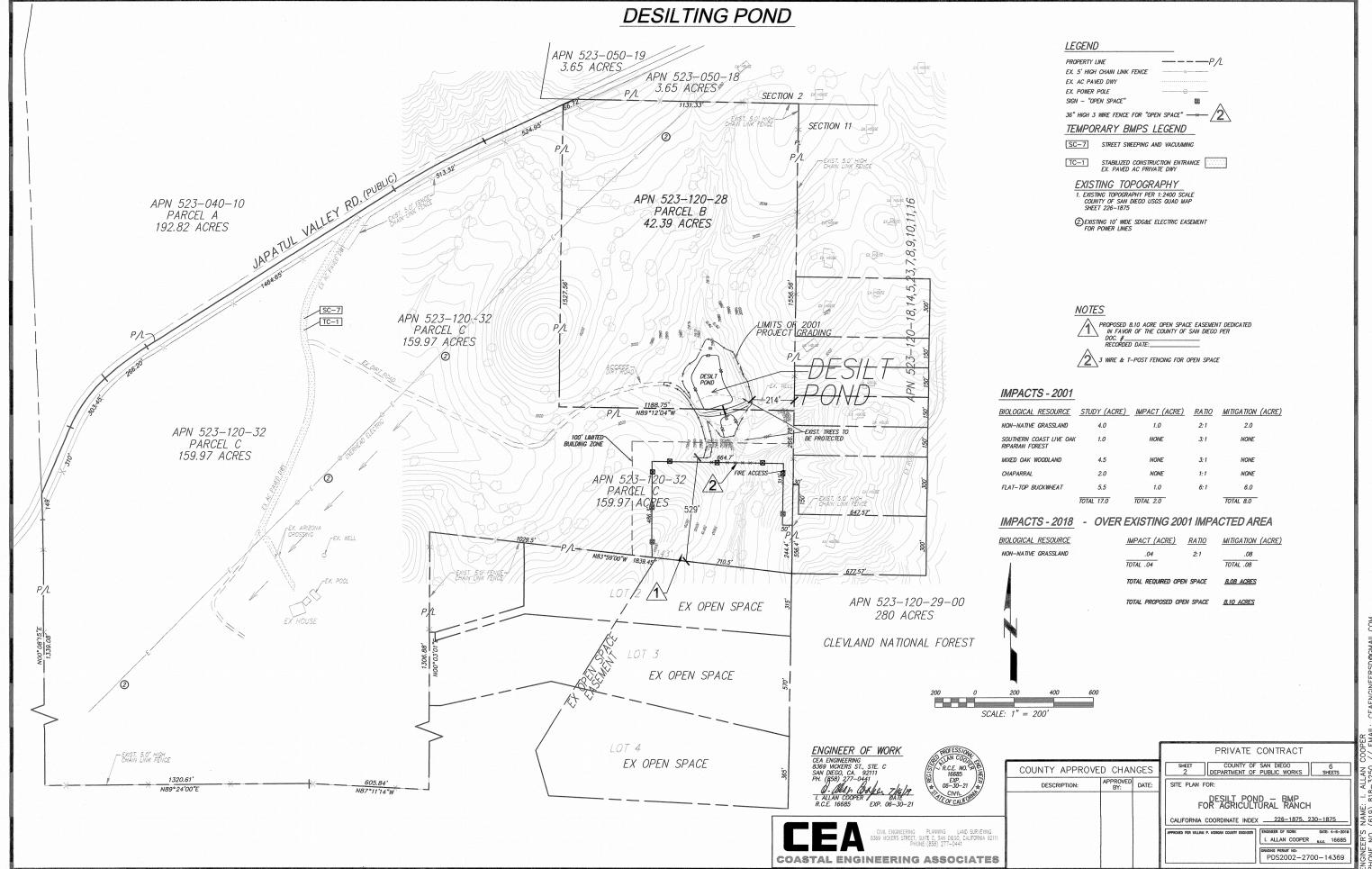
AND PROFESSIONS CODE, AND THAT THE DESIGN CURRENT STANDARDS.	I IS CONSISTENT WITH
I UNDERSTAND THAT THE CHECK OF PROJECT D FICATIONS BY THE COUNTY OF SAN DIEGO IS C ONLY AND DOES NOT RELIEVE ME, AS ENGINEER	ONFINED TO REVIEW
RESPONSIBILITES FOR PROJECT DESIGN BY: I. ALLAN COOPER	DATE: 7/16/19
I. ALLAN COOPER RCE NO: 16685	EXPIRES: 6/30/202

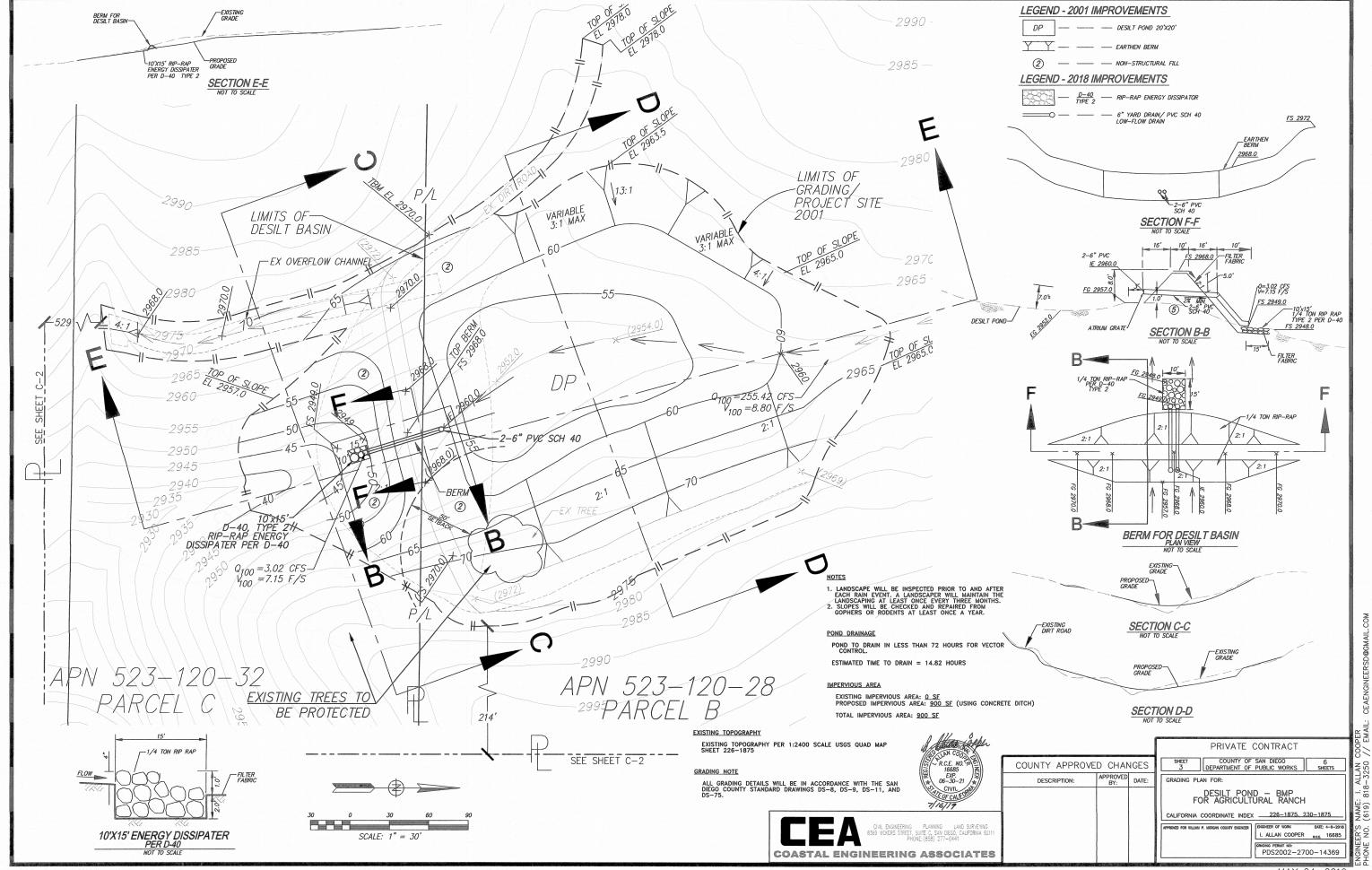
PDS ENVIRONMENTAL REVIEW	,	COUNTY APPROVE	D CHAN	NGE:
APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.	NO.	DESCRIPTION:	APPROVED BY:	DAT
APPROVED BY:				
DATE:				
"MOTICE THE ISSUANCE OF THIS PERMIT/APPROVAL BY THE COUNTY OF SAN DIEGO DICES NOT ANITHORIZE THE APPLICANT FOR SAID PERMIT/APPROVAL TO VIDLATE MY TELEFAL STATE, OR COUNTY LAVS, DRIDNANCES, REQULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT AND ANY AMEMORISTS THERETO!				

PERMITS				
LANDSCAPE PERMIT NON/A	Γ			
WDID/NOI NO. 937C321369 SWPPP RISK LEVEL1	l			
TENTATIVE MAP NON/A	l			
CODE ENFORCEMENT CASE PDS 2012-RFS-12-0074833				
BENCH MARK				
DESCRIPTION: STD DISC D-0894 1955 20 SE OF PP 818213H				
LOCATION: JAPATUL VALLEY ROAD				
RECORD FROM: 1955				
ELEVATION: 3.062.730 DATUM: D 0894	l			

ON AND PLAN CHANGE APPROVAL.	S TO THE ABOVE WILL	REQUIRE
PRIVATE	CONTRACT	
	SAN DIEGO PUBLIC WORKS	6 SHEETS
GRADING PLAN FOR: DESILT PO FOR AGRICUL CALIFORNIA COORDINATE INDE	ND — BMP TURAL RANCH x <u>226–1875, 2</u> 3	and the state of
APPROVED FOR WILLIAM P. MORGAN COUNTY ENGINEER	ENGINEER OF WORK I. ALLAN COOPER GRADING PERMIT NO: PDS2002-270	DATE: 4-6-2018 RGE 16685

: I. ALLAN (818-3250 NAME: (619)





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 DRINNAGE 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 UNPAVED STREETS WITH GRADIENTS 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

BMP LEGEND

PDS 659 BROW DITCH -> PDS 659 BERM -> B DIRECTION OF LOT DRAINAGE ->

MATERIALS & WASTE MANAGEMENT CONTROL BMPs

WM-1 MATERIAL DELIVERY & STORAGE SPILL PREVENTION AND CONTROL

CONCRETE WASTE MANAGEMENT

SOLID WASTE MANAGEMENT

SANITARY WASTE MANAGEMENT HAZARDOUS WASTE MANAGEMENT WM-6

TEMPORARY RUNOFF CONTROL BMPs

PRESERVATION OF EXISTING
PEV
PEV
VEGETATION SS-2

BONDED OR STABILIZED FIBER MATRIX ~M~M~ HYDROSEEDING (SUMMER) ~TSP~TSP~

SS-6 / SS-8 STRAW OR WOOD MULCH ~ S/W~ S/W~

PHYSICAL STABILIZATION (WINTER) ~EBM~EBM~

SS-10 ENERGY DISSIPATOR

SILT FENCE SC-1

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 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

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

LOW IMPACT DEVELOPMENT BMPs

CONSERVATION OF NATURAL DRAINAGES, WELL DRAINED SOILS AND SIGNIFICANT VEGETATION

LID 2.2.2 MINIMIZE DISTURBANCES TO NATURAL DRAINAGES

LID 2.2.3 MINIMIZE AND DISCONNECT IMPERVIOUS SURFACES

LID 2.2.4 MINIMIZE SOIL COMPACTION

LID 2.2.5 DRAIN RUNOFF FROM IMPERVIOUS SURFACES TO PERVIOUS AREAS LID 3.1 HYDROLOGIC DESIGN

LID 3.2 PERMEABLE PAVEMENT DESIGN

LID 3.3 ROAD DESIGN FOR DEVELOPMENTS

LID 3.4 PARKING LOT DESIGN FOR COMMERCIAL PROJECTS

LID 3.5 DRIVEWAY, SIDEWALK, AND BIKE PATH DESIGN

LID 3.6 BUILDING DESIGN

LID 3.7 LANDSCAPING DESIGN

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:

- A. HYDROSEEDING SHALL BE APPLIED TO:
- 1. 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;
- b. ALL SLOPES 4 FEET OR MORE IN HEIGHT.
- 2. AREAS GRADED FLATTER THAN 6:1 WHEN ANY OF THE FOLLOWING
- g. NOT SCHEDULED FOR IMPROVEMENTS (CONSTRUCTION OR GENERAL LANDSCAPING) WITHIN 30 DAYS OF ROUGH GRADING.
- HYDROSEEDED AREAS SHALL BE IRRIGATED IN ACCORDANCE WITH THE 1. ALL SLOPES THAT ARE GRADED 6:1 OR STEEPER AND THAT ARE:
- c. 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.
- d. GREATER THAN 8 FEET IN HEIGHT SHALL BE WATERED BY A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS PROVIDING 100% COVERAGE.
- 2. 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.
- 3. IRRIGATION SHALL MAINTAIN THE MOISTURE LEVEL OF THE SOIL AT THE OPTIMUM LEVEL FOR THE GROWTH OF THE HYDROSEEDED GROWTH.

 C. SLOPE HYDROSEEDING MIX SHALL CONSIST OF ALL OF THE FOLLOWING:
- (TEMPORARY PAD HYDROSEEDING MIX PER SHEET 14.) 1. SEED MIX SHALL CONSIST OF:
- a. CAMISSONIA CHEIRANTHIFOLIA- "BEACH PRIMROSE"
- b. ISOCOMA MENSIESII- "MENZIES" GOLDENBLISH"
- c. OENOTHERA ELATA- "EVENING PRIMROSE"
- d. BACCHARIS SAROTHROIDES- "DESERT BROOM
- e. PLANTAGO ERECTA- "CALIFORNIA PLANTAIN
- f. ERIOGONUM FASCICULATUM- "CALIFORNIA BUCKWHEAT"
- g. HELIOTROPIUM CURASSAVICUM- "HELIOTROPE"
- h. LOTUS SCOPARIUS- "DEER WEED"
- i. AMBROSIA PSILOSTACHYA- "CUMAN RAGWEED"

- g. ITEMS c, d, e AND f OF THIS SUBSECTION MAY BE OMITTED ON EITHER A PUBLIC STREET OR RESIDENTIAL STRUCTURES.

 J. ITEM a OF THIS SUBSECTION MUST BE INOCULATED WITH A NITROGEN FIXING BACTERIA AND APPLIED DRY EITHER BY DRILLING OR BROADCASTING BEFORE HYDROSEEDING.
 - k. ALL SEED MATERIALS SHALL BE TRANSPORTED TO THE JOBSITE UNOPENED CONTAINERS WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE CERTIFICATION TAG ATTACHED TO, PRINTED ON SAID CONTAINERS.
- NON-PHYTO-TOXIC WETTING AGENTS MAY BE ADDED TO THE HYDROSEED SLURRY AT THE DISCRETION OF THE CONTRACTOR.
- 2. 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.
- 3. FERTILIZER CONSISTING OF AMMONIUM PHOSPHATE, SULFATE, 16–20–0, WITH 15% SULPHUR APPLIED AT THE RATE OF 500 LBS. PER ACRE.
- D. AREAS TO BE HYDROSEEDED SHALL BE PREPARED PRIOR TO HYDROSEEDING BY:
- 1. ROUGHENING THE SURFACE TO BE PLANTED BY ANY OR A COMBINATION OF
- a. TRACK WALKING SLOPES STEEPER THAN 6:1
- b. HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLYY c. RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a OR b
- 2. CONDITIONING THE SOILS SO THAT IT IS SUITABLE FOR PLANTING
- g. ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP BUT NOT SATURATED SEED BED.
- b. THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING COVERING SALINE SOILS TO PROVIDED VIABLE CON
- E. 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 BONDS RELEASED.

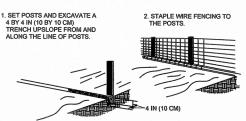
HYDROSEED NOTES:

- 1. PRIOR TO THE ACCEPTANCE OF THE HYDROSEEDED AREAS BY THE COUNTY RESIDENT ENGINEER, 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
- IT IS THE INTENT THAT THE HYDROSEED MIX BE APPLIED NO SOONER THAN JUST BEFORE THE FIRST RAIN IN OCTOBER AND NO LATER THAN JUST AFTER THE SECOND RAIN AFTER THE FIRST RAIN IN OCTOBER.
- 3. ALL DISTURBED SLOPES TO BE HYDROSEEDED UNLESS OTHERWISE

STORMWATER MANAGEMENT NOTES

- 1. 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% OF ALL SUPPLIES NEEDED FOR BMP MEASURES 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.
- 2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME NO AREA BEING DISTURBED SHALL EXCELD 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DPW 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 LON—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 STORMWATER REGULATIONS AT ALL TIMES. THE BMP'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 STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY. AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN EMFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- 4. ON PROJECTS OF GREATER THAN 1 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 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CASOLOOG) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE NOI NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [WDID#] [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.

TYPICAL BMP DETAILS



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT







GRAVEL BAG CHECK DAM NO SCALE SC-6

NOTE:

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 ESTABLISHMENT BOOSE NOT OCCUPE TO THAT TAKE THE PROPER OF OWNERS SHALL SUPPLEMENT OF STABLISHMENT BOOSE NOT OCCUPE TO THAT TAKE THE PROPER OF OWNERS SHALL SHAPES 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

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

1. FOR USE IN AREAS WHERE GRADING HAS BEEN COMPLETED AND FINAL SOIL STABILIZATION AND SEEDING ARE PENDING

PLAN

-GEOTEXTILE BLANKET

SECTION A-A

-DRAIN INLF

-SILT FENCE PER SC-01

OVERLAP AT ENDS OF SILT FENCE.

-GEOTEXTILE BLANKET

-SILT FENCE PER SC-01

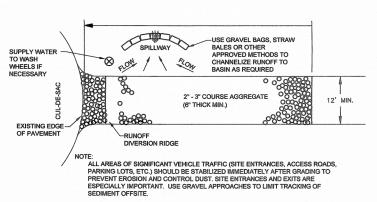
- 2. NOT APPLICABLE IN PAVED AREAS.
 3. NOT APPLICABLE WITH CONCENTRA

SHEET FLOW

LESS THAN

TYPICAL FIBER ROLL INSTALLATION SC-5

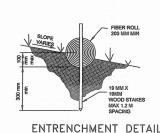
MEASURED ALONG 1 FACE OF THE SLOPE



DRAIN INLET PROTECTION TYPE 1

SC-10

STABILIZED CONSTRUCTION ENTRANCE TC-1



SC-5

ENGINEER OF WORK CEA ENGINEERING 8369 WCKERS ST., STE. C SAN DIEGO, CA. 92111 PH. (858) 277-9441 Of Man Cottle ; I. ALLAN COOPER R.C.E. 16685 EXP. O R.C.E. NO. 16685 EXP. 08-30-21 EXP. 06-30-21

PRIVATE CONTRACT COUNTY OF SAN DIEGO COUNTY APPROVED CHANGES DEPARTMENT OF PUBLIC WORKS EROSION CONTROL AND CONSTRUCTION BMP STANDARD NOTES AND DETAILS FOR: APPROVED DESCRIPTION: DATE DESILT POND — BMP FOR AGRICULTURAL RANCH CALIFORNIA COORDINATE INDEX 226-1875, 230-1875 I. ALLAN COOPER RGE 16685 PDS2002-2700-14369

> MAY 24, 2019 5-24-19

COASTAL ENGINEERING ASSOCIATES

EXP. 06-30-21

IF HYDROSEED IS NOT ESTABLISHED PRIOR TO RAIN EVENTS AND THERE IS EROSION, INSTALL STRAW MAT ON ALL GRADED (MANUFACTURED) SLOPES.

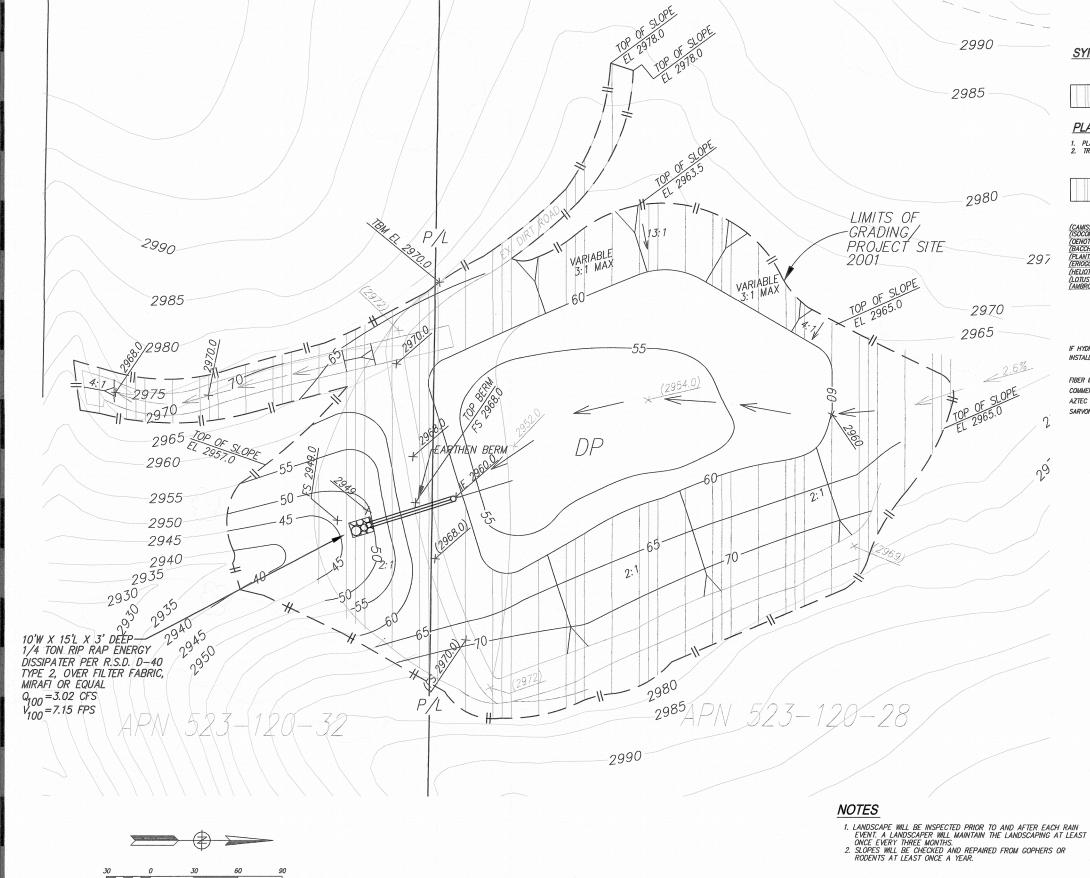
STRAW ROLL (TYP.)

TEMPORARY SILT FENCE (TYP.)

5-24-19

PDS2002-2700-14369

CONDING DEDWIT NO



PLANT LIST

SYMBOL BOTANICAL/COMMON NAME

QUANTITY SIZE

NON-IRRIGATED HYDROSEED

PLANTING NOTES

1. PLANTING SHALL BE IN CONFORMANCE WITH THE COUNTY OF SAN DIEGO'S LANDSCAPE REQUIREMENTS.
2. TREES THAT ARE IMPACTED BY THIS PROJECT SHALL BE MITIGATED AT A 5:1 RATIO, 15 GALLON MINIMUM SIZE.



NON-IRRIGATED HYDROSEED PLANTING

LBS./ACRE PURIGER

MISSONIA CHEIRANTHIFOLIA)	BEACH PRIMROSE	3	70/50
COMA MENSIESII)	MENZIES' GOLDENBUSH	3	70/50
IOTHERA ELATÁ)	EVENING PRIMROSE	3	70/50
CCHARIS SAROTHROIDES)	DESERT BROOM	3	70/50
NTAGO ERECTA)	CALIFORNIA PLANTAIN	25	98/75
OGONUM FASCIĆULATUM)	CALIFORNIA BUCKWHEAT	10	10/65
IOTROPIUM CURASSAVICUM)	HELIOTROPE	2	70/50
US SCOPARIUS)	DEER WEED	1	10/25
BROSIA PSILOSTACHYA)	CUMAN RAGWEED	1	10/25
	TOTAL SEED =	51 LBS	

IF HYDROSEED IS NOT ESTABLISHED PRIOR TO RAIN EVENTS AND THERE IS EROSION, INSTALL STRAW MAT ON ALL GRADED (MANUFACTURED) SLOPES.

 FIBER MULCH
 —
 —
 —
 2,000 LBS./ACRE

 COMMERCIAL FERTILIZER: "GRO-POWER" (5-3-1 PLUS)
 —
 —
 1,200 LBS./ACRE

 AZTEC BINDER
 —
 —
 —
 —
 —
 130 LBS./ACRE

 SARVON (WETTING AGENT)
 —
 —
 —
 —
 6 GALLONS

ENGINEER OF WORK

CEA ENGINEERING
8369 WCKERS ST., STE. C
SAN DIEGO, CA. 92111
PH. (858) 277-0441

I. ALLAN COOPER
R.C.E. 16685 EXP. 06-30



	IGES	D CHAN	COUNTY APPROVE
LAN	DATE:	APPROVED BY:	DESCRIPTION:
CAL			
APPROVE			

ME STORY	PRIVATE CONTRACT	
T	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	6 SHEETS

NDSCAPING PLAN FOR:

DESILT POND — BMP
FOR AGRICULTURAL RANCH

CALIFORNIA COORDINATE INDEX 226—1875, 230—1875

APPROVED FOR WILLIAM P. MORROW COUNTY DISCHERE

I. ALLAN COOPER APP. 1865

I. ALLAN COOPER APP. 1865

II. ALLAN COOPER APP. 1865

III. ALLAN C

| ENGINEER OF WORK | DATE: 4-8-2018 | I. ALLAN COOPER | R.C.E. | 16685 | GRADING PERMIT NO: | PDS2002-2700-14369 |