

# COTTONWOOD SAND MINING PROJECT

## GRADING NOTES

- THE ENGINEER OF WORK WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. THE OWNER SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
- A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DIRECTOR 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 THE PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:  
 UNDERGROUND SERVICE ALERT: (800) 422-4133  
 SAN DIEGO GAS AND ELECTRIC: (800) 227-2600  
 COX CABLE TV: (866) 272-5777  
 OTAY WATER DISTRICT: (619) 670-2222  
 SEWER: COUNTY OF SAN DIEGO - HNSA

### PROTECTION OF EXISTING UTILITIES:

THE OWNER IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ANY PAVEMENT OR OTHER EXISTING SURFACE IMPROVEMENTS DAMAGED BY THE WORK SHALL BE REPLACED AS REQUIRED BY THE COUNTY OF SAN DIEGO ENGINEERING DEPARTMENT. EXISTING UTILITIES SHOWN HEREON ARE PLOTTED FROM RECORD DATA AND MAY NOT NECESSARILY BE WHERE SHOWN. IT IS THE OWNER'S RESPONSIBILITY TO DETERMINE LOCATION PRIOR TO CONSTRUCTION.

- GENERAL UTILITY NOTES EXPLORATORY EXCAVATION REQUIRED: OWNER WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF EXCAVATION TO PREVENT DAMAGE TO SAID UTILITIES. ALL EXISTING UTILITIES WITHIN THE SITE, AND THOSE ADJACENT TO THE SITE WHICH ARE AFFECTED BY THE WORK PROPOSED TO BE DONE ARE SHOWN ON THIS PLAN. THE UTILITY COMPANIES HAVE REVIEWED THESE PLANS AND ARE SATISFIED WITH THE ARRANGEMENTS MADE BY THE PERMITEE TO PROTECT OR RELOCATE THE UTILITIES.

- EXISTING UTILITIES OR STRUCTURES ARE SHOWN ACCORDING TO THE RECORDS OF THE FOLLOWING COMPANIES AND HAVE BEEN EXAMINED TO VERIFY THAT THEY OWN NO UTILITIES OR STRUCTURES WHICH WILL BE AFFECTED BY THE PROPOSED GRADING.

- 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 ACCORDING TO THE PERIOD SPECIFIED IN THE MAJOR USE PERMIT.

- ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ADJUTING CUT OR FILL SURFACES.

- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE RECLAMATION PLANS, THE PERMITEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE 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 - 0.5:1 (MAXIMUM) FOR SLOPES APPROVED BY SOILS ENGINEER  
 FILL - 2:1 (MAXIMUM) FOR ALL SLOPES

- IF ANY ARCHAEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE 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.

- ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH THE COUNTY OF SAN DIEGO GRADING ORDINANCE AND STANDARD DRAWINGS DS-10, DS-11 AND SAN DIEGO REGIONAL STANDARD DRAWINGS.

- COMPACTION TESTING AND A COMPACTION REPORT IS REQUIRED FOR ALL FINISH PADS THAT ARE OVER 12" IN DEPTH.

- FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED CIVIL GEOTECHNICAL ENGINEER AND INSPECTED BY THE COUNTY ENGINEER FOR DRAINAGE CLEARANCE. (APPROVAL OF ROUGH GRADING DOES NOT CERTIFY FINISH GRADING BECAUSE OF POTENTIAL SURFACE DRAINAGE PROBLEMS THAT MAY BE CREATED BY LANDSCAPING ACCOMPLISHED AFTER ROUGH GRADING CERTIFICATION.)

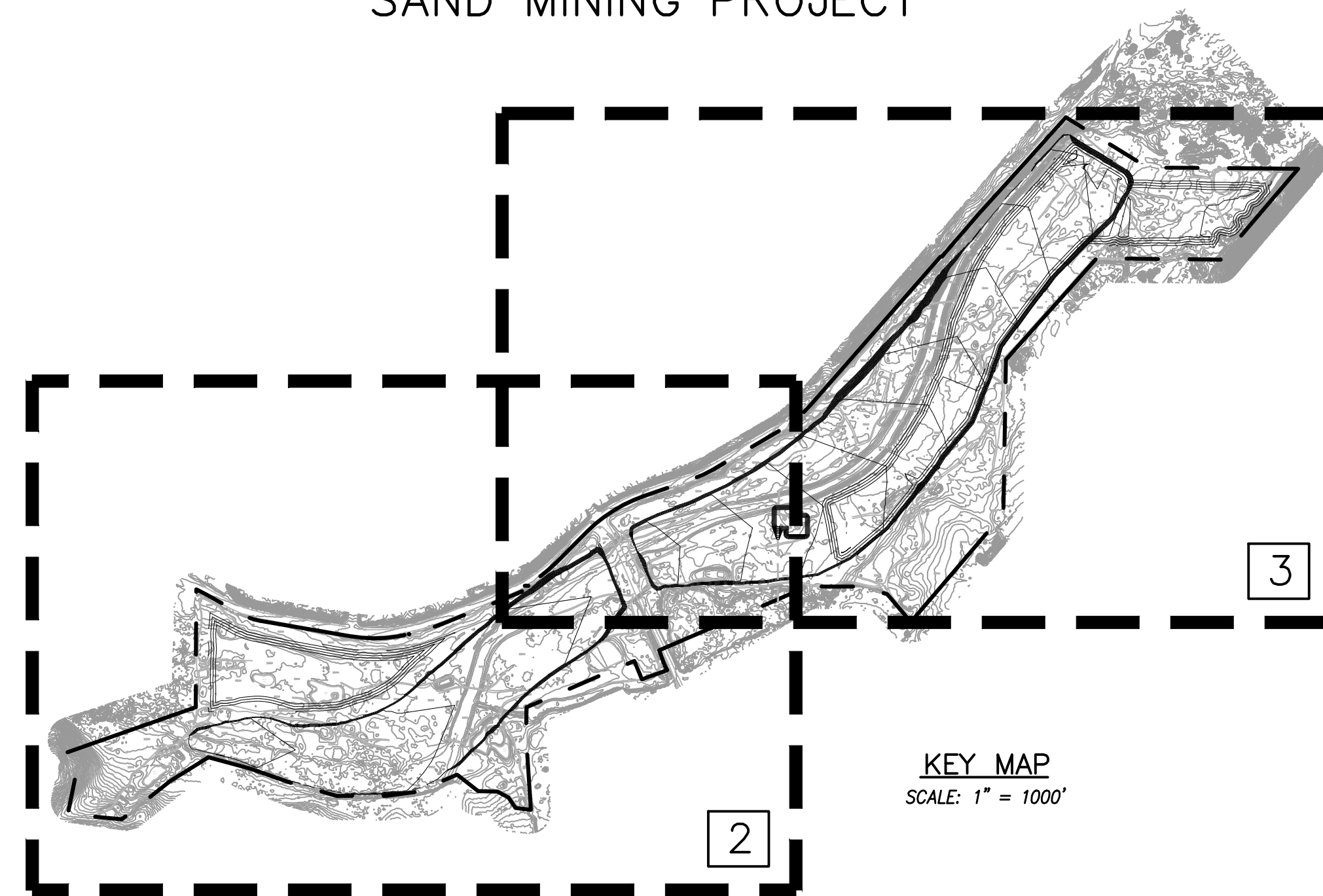
## DECLARATION OF RESPONSIBLE CHARGE

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 A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

WAYNE W. CHANG  
 CHANG CONSULTANTS  
 P.O. BOX 9496  
 RANCHO SANTA FE, CA 92067  
 PHONE: (858) 692-0760

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 WAYNE W. CHANG, R.C.E. 46548



## PROJECT PHASING

PHASE 1 - SITE PREPARATION AND EXTRACTION WEST OF STEELE CANYON ROAD

PHASE 1 INCLUDES SITE DEVELOPMENT FOR THE CONSTRUCTION OF THE ACCESS ROADS, PROCESSING AREA PAD, SCREENING BERMS AND CONVEYOR/SLURRY LINE. FOLLOWING THE INITIAL SITE DEVELOPMENT ACTIVITIES, EXTRACTIVE OPERATIONS WILL COMMENCE IN THE AREA WEST OF STEELE CANYON ROAD AND PROCEED FROM THE WESTERN BOUNDARY TO THE ROAD. THIS PHASE IS EXPECTED TO BE COMPLETE IN APPROXIMATELY 3 YEARS.

PHASE 2 - CENTRAL AREA EXTRACTION

PHASE 2 WILL CONTINUE THE IDENTICAL EXTRACTION PROCESS ON APPROXIMATELY 49 ACRES EAST OF, AND ADJACENT TO, STEELE CANYON ROAD. EXCAVATION OF THE MATERIALS WILL START ADJACENT TO STEELE CANYON ROAD AND PROCEED EASTWARD TO THE APPROXIMATE AREA OF THE CLUBHOUSE. UPON CONCLUSION OF PHASE 2, THE CONVEYOR/SLURRY LINE WILL BE RELOCATED TO RUN FROM THE PLANT EASTWARD. THIS PHASE IS ANTICIPATED TO LAST APPROXIMATELY 3 YEARS.

PHASE 3 - EASTERN AREA EXTRACTION

PHASE 3 IS THE FINAL EXTRACTION PHASE AND THE EXCAVATION PROCESS IN PHASE 3 IS A REPEAT OF PHASE 2 ON APPROXIMATELY 50 ACRES OF THE VALLEY, EAST OF THE CLUBHOUSE AND THE PHASE 2 AREA. THIS PHASE WILL PROCEED TO THE EASTERN BOUNDARY OF THE PROJECT. PHASE 3 IS ANTICIPATED TO LAST ABOUT 4 YEARS.

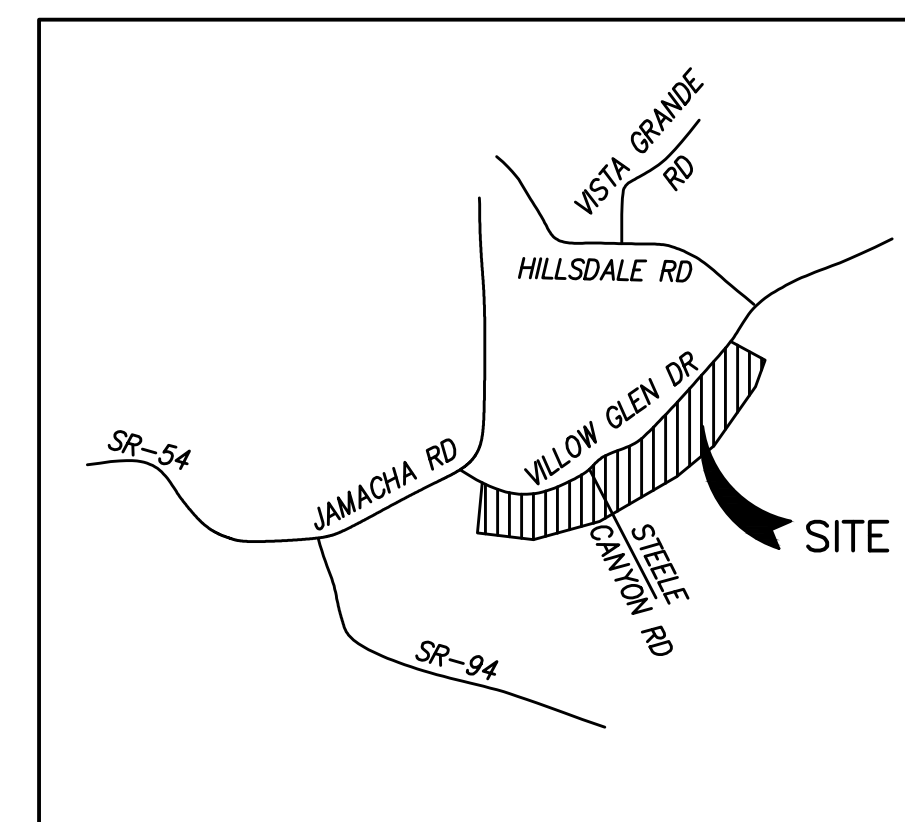
PHASE 4 - FINAL RECLAMATION AND SITE CLEANUP

PHASE 4 CONSISTS OF FINAL RECLAMATION, CLEANUP AND REMOVAL OF ALL MINING RELATED EQUIPMENT. REVEGETATION MONITORY WILL CONTINUE FOR AT LEAST TWO YEARS.

RECLAMATION OF ALL PHASES WILL BEGIN AS THE FINAL LAND FORMS ARE ESTABLISHED IN EACH PHASE. RECLAMATION WILL INCLUDE ESTABLISHMENT OF ALL FINAL SLOPES, INCORPORATION OF ANY ACCUMULATED WASH FINES AND TOPSOIL, REVEGETATION OF THE CHANNEL USING NATIVE SPECIES COMMON TO RIPARIAN HABITAT, AND GRADING OF AREAS SUITABLE FOR FUTURE DEVELOPMENT.

MINING PHASE	AREA AFFECTED BY MINING OPERATIONS (ACRES)*	MINING DURATION (YEARS)	MINING INITIATION DATE (EST.)	MINING COMPLETION DATE (EST.)	RECLAMATION COMPLETION DATE (EST.)
1	68	3	2020	2023	2025
2	49	3	2023	2026	2028
3	50	4	2026	2030	2032
<b>TOTAL</b>	<b>167</b>	<b>10</b>			

\* ROUNDED TO THE NEAREST ACRE



VICINITY MAP

## SHEET INDEX

- SHEET 1 COVER SHEET
- SHEET 2 RECLAMATION GRADING
- SHEET 3 RECLAMATION GRADING
- SHEET 4 SITE CROSS-SECTIONS
- SHEET 5 SITE CROSS-SECTIONS
- SHEET 6 EASEMENTS

## PROJECT PHASING

EXISTING CONTOUR

EXISTING SPOT ELEVATION

PROPOSED CONTOUR

PROPOSED GRADE

PROPERTY LINE

DAYLIGHT LINE

PROPOSED SLOPE

## EARTHWORK QUANTITIES

	0	CY FILL
NORTH	1,903,700	CY CUT
SOUTH	652,300	CY CUT
MINING AND BACKFILL	3,986,000	CY CUT
	6,542,000	CY
	7,850,400	FINISHED TONS

## LEGAL DESCRIPTION

THE PROJECT IS LOCATED WITHIN PORTIONS OF SECTIONS 9, 10, AND 16, TOWNSHIP 15 SOUTH, RANGE 1 EAST OF THE EL CAJON MOUNTAIN, CALIFORNIA, U.S. GEOLOGICAL SURVEY (USGS) 7.5-MINUTE QUADRANGLE, SAN BERNARDINO BASE AND MERIDIAN, COUNTY OF SAN DIEGO, CALIFORNIA AT APPROXIMATELY 32°52' 38.53" N LATITUDE -116° 52' 50.00" W LONGITUDE.

## PROJECT DESCRIPTION

THE PROJECT PROPOSES TO MINE SAND SUITABLE FOR PORTLAND CEMENT CONCRETE (PCC) USE OVER AN EXTENDED PERIOD WITHIN DESIGNATED PHASES. RECLAMATION OF THE MINED LANDS WILL FOLLOW AS SOON AS MINING OPERATIONS ARE COMPLETED IN A SPECIFIC AREA. RECLAMATION PROCEDURES WILL BE PHASED WITH MINING OPERATIONS AND WILL BE INITIATED IMMEDIATELY AFTER THE CONCLUSION OF RESOURCE EXTRACTION AND BACKFILLING TO DESIGN ELEVATIONS.

THE MAXIMUM LEVEL OF AGGREGATE PRODUCTION IS ANTICIPATED TO BE 550-THOUSAND TONS PER YEAR (MTPY). THIS LEVEL OF PRODUCTION WILL BE REALIZED AFTER 1 YEAR OF SITE DEVELOPMENT. ACTUAL PRODUCTION LEVELS AND PROJECT LIFE WILL DEPEND ON MARKET DEMAND BUT WILL NOT EXCEED THE MAXIMUM PERMITTED PRODUCTION LEVEL. THE PROJECT IS EXPECTED TO CONTINUE FOR 12 YEARS. THIS WILL INCLUDE 10 YEARS OF EXTRACTION AND RECLAMATION OF PREVIOUS PHASES. RECLAMATION OF PREVIOUSLY DISTURBED AREAS IS ANTICIPATED TO BEGIN IN YEAR 2. VEGETATION MONITORING WILL CONTINUE FOR 3 YEARS AFTER RECLAMATION.

## WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2003 EDITION), THE REGIONAL SUPPLEMENT AMENDMENTS (2003 EDITION), THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (DATED JULY 2000).

## OWNERS

RONALD RICHARDS  
 COTTONWOOD CAJON ES LLC  
 9255 DOHENY ROAD, #602  
 WEST HOLLYWOOD, CA 90069

## PERMITEE

RONALD RICHARDS  
 COTTONWOOD CAJON ES LLC  
 9255 DOHENY ROAD, #602  
 WEST HOLLYWOOD, CA 90069

## DISCRETIONARY REVIEW APPROVAL

THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN VALID GRADING PERMISSIONS BEFORE COMMENCING SUCH ACTIVITY.

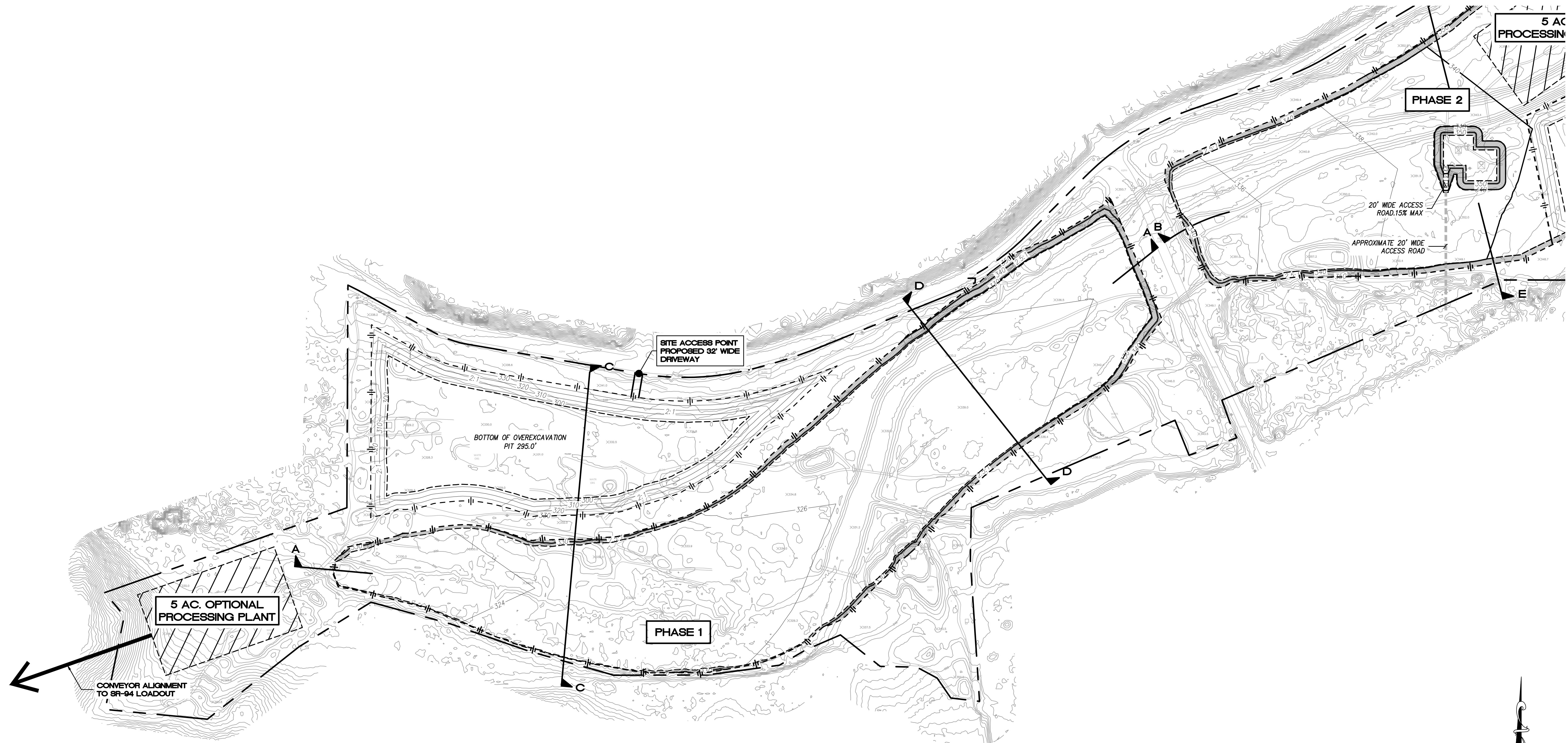
## ASSESSOR'S PARCEL NUMBERS

THE PROJECT IS LOCATED ON TWENTY-TWO SEPARATE ASSESSOR'S PARCELS (APNS) AS PRESENTED IN FOLLOWING TABLE. PORTIONS OF THE PROPERTY WILL NOT BE MINED ALTHOUGH THOSE AREAS MAY BE DISTURBED AS PART OF THE RECLAMATION EFFORT FOR THE PROPERTY.

APN	TOTAL ACRES (APPROX.)	OWNER	ZONING
506-021-1900	8.20	COTTONWOOD CAJON ES, LLC	S88
506-020-5200	4.01	COTTONWOOD CAJON ES, LLC	S80
518-012-1300	2.97	COTTONWOOD CAJON ES, LLC	S90
518-012-1400	46.61	COTTONWOOD CAJON ES, LLC	S90
518-030-0500	2.30	COTTONWOOD CAJON ES, LLC	S90
518-030-0600	5.58	COTTONWOOD CAJON ES, LLC	S90
518-030-0700	2.59	COTTONWOOD CAJON ES, LLC	S90
518-030-0800	0.69	COTTONWOOD CAJON ES, LLC	S90
518-030-1000	7.16	COTTONWOOD CAJON ES, LLC	S90
518-030-1200	6.88	COTTONWOOD CAJON ES, LLC	S90
518-030-1300	10.20	COTTONWOOD CAJON ES, LLC	S90
518-030-1500	4.04	COTTONWOOD CAJON ES, LLC	S90
518-030-2100	56.71	COTTONWOOD CAJON ES, LLC	S90
518-030-2200	19.43	COTTONWOOD CAJON ES, LLC	S90
519-010-1500	33.72	COTTONWOOD CAJON ES, LLC	S90
519-010-1700	14.59	COTTONWOOD CAJON ES, LLC	S90
519-010-2000	19.22	COTTONWOOD CAJON ES, LLC	S90
519-010-2100	1.10	COTTONWOOD CAJON ES, LLC	S90
519-010-3300	1.76	COTTONWOOD CAJON ES, LLC	S90
519-010-3400	7.17	COTTONWOOD CAJON ES, LLC	S90
519-010-3700	1.06	COTTONWOOD CAJON ES, LLC	S90
519-011-0300	23.80	COTTONWOOD CAJON ES, LLC	S88
<b>TOTALS:</b>	<b>279.79</b>		

COUNTY APPROVED CHANGES		BENCHMARK	
No.	Description	Approved by	Date
	ORIGINAL		X--X--XX
DESCRIPTION: COTTONWOOD GOLF COURSE		LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3	
RECORD FROM: ROS 16512		ELEVATION: 488.50 FEET	
DATE: _____		DATUM: NGVD 29	

PERMITS		PRIVATE CONTRACT	
HABITAT LOSS PERMIT NO. _____	N.O.I. NO. _____	SHEET 1	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
SPECIFIC PLAN AMENDMENT _____	SPECIAL USE PERMIT NO. _____		6 SHEETS
GRADING PERMIT NO. _____	TENTATIVE MAP NO. _____	RECLAMATION PLAN FOR: <b>COTTONWOOD SAND MINING PROJECT</b>	
CALIFORNIA COORDINATE INDEX: 210-1791			
Approved COUNTY ENGINEER BY: WAYNE W. CHANG		Engineer of work BY: WAYNE W. CHANG	
Date: _____		Grading Permit No. _____	



5 AC  
PROCESSING

PHASE 2

SITE ACCESS POINT  
PROPOSED 32' WIDE  
DRIVEWAY

BOTTOM OF OVEREXCAVATION  
PIT 295.0'

5 AC. OPTIONAL  
PROCESSING PLANT

CONVEYOR ALIGNMENT  
TO SR-94 LOADOUT

PHASE 1

SCALE: 1" = 200'



PERMITS	
HABITAT LOSS PERMIT NO.	
N.O.I. NO.	
SPECIFIC PLAN AMENDMENT NO.	
SPECIAL USE PERMIT NO.	
GRADING PERMIT NO.	
TENTATIVE MAP NO.	

PRIVATE CONTRACT	
SHEET 2	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
6 SHEETS	

RECLAMATION PLAN FOR:  
**COTTONWOOD SAND MINING PROJECT**  
CALIFORNIA COORDINATE INDEX: 210-1791

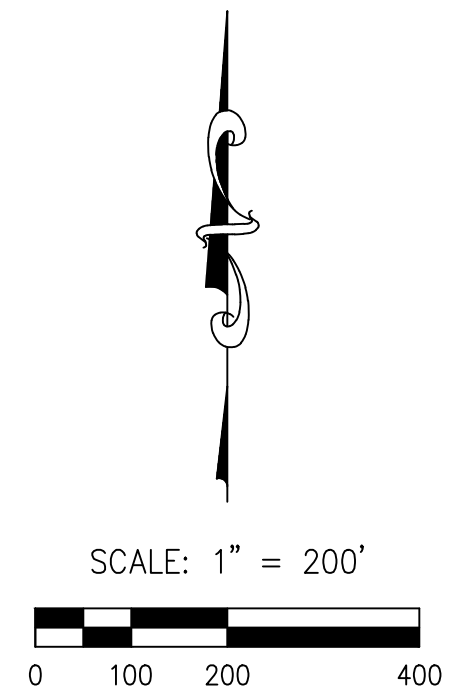
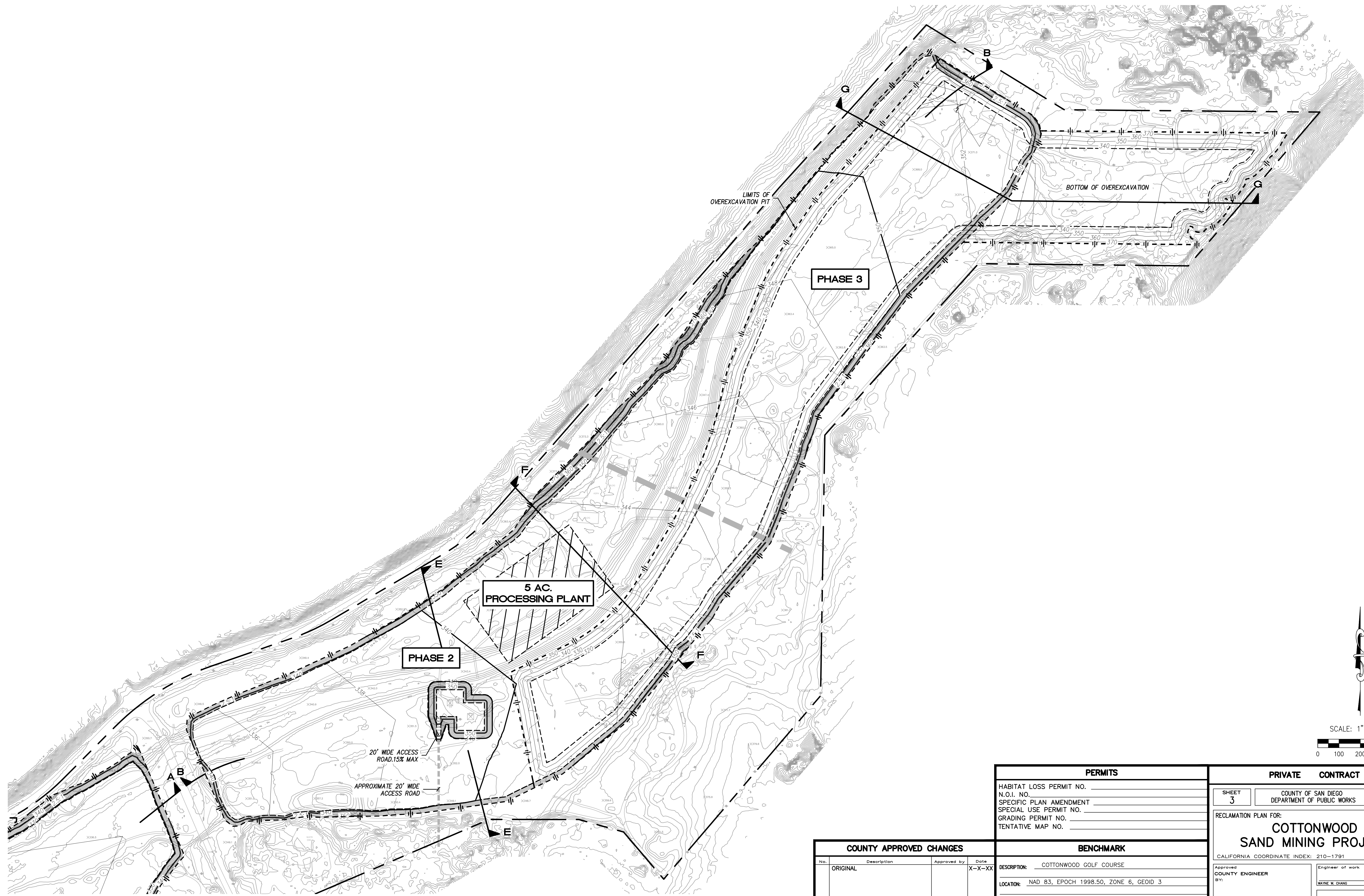
COUNTY APPROVED CHANGES			
No.	Description	Approved by	Date
	ORIGINAL		X--X--XX

BENCHMARK	
DESCRIPTION:	COTTONWOOD GOLF COURSE
LOCATION:	NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3
RECORD FROM:	ROS 16512
ELEVATION:	488.50 FEET
DATUM:	NGVD 29

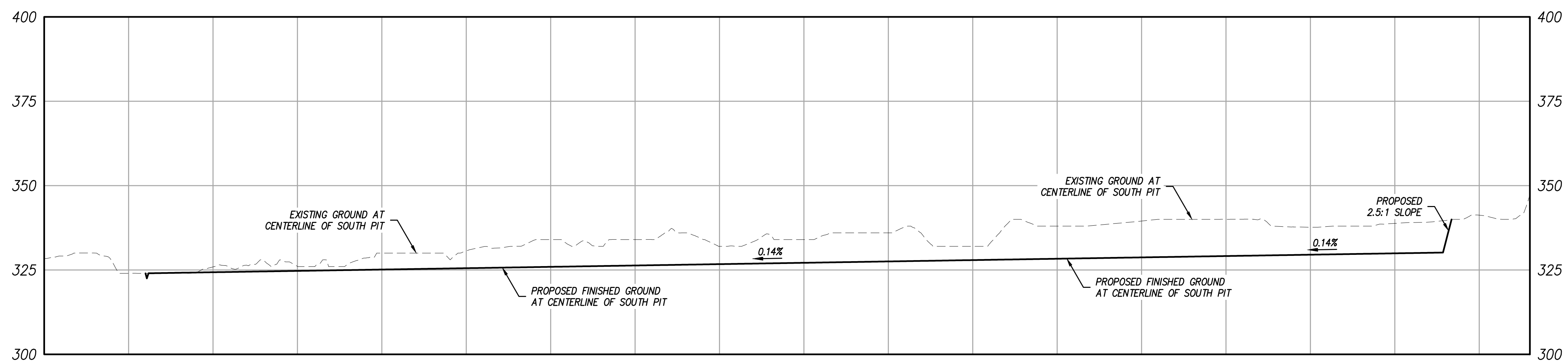
Approved COUNTY ENGINEER BY:	Engineer of work WAYNE W. CHANG R.C.E. 46548
Date	Grading Permit No.

FOR REVIEW ONLY

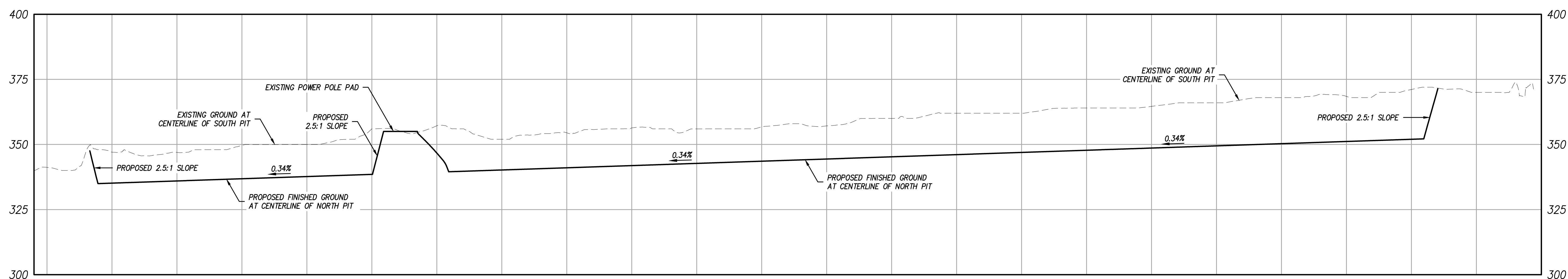
ENGINEER'S NAME: CHANG CONSULTANTS  
PHONE NO. (858) 692-0760



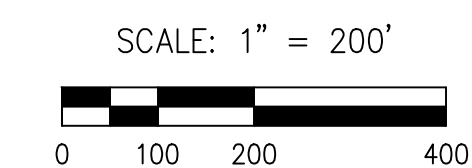
<b>PERMITS</b>		<b>PRIVATE CONTRACT</b>	
HABITAT LOSS PERMIT NO. _____		SHEET <b>3</b> OF <b>6</b> SHEETS	
N.O.I. NO. _____		COUNTY OF SAN DIEGO	
SPECIFIC PLAN AMENDMENT _____		DEPARTMENT OF PUBLIC WORKS	
SPECIAL USE PERMIT NO. _____		<b>COTTONWOOD SAND MINING PROJECT</b>	
GRADING PERMIT NO. _____			
TENTATIVE MAP NO. _____			
<b>COUNTY APPROVED CHANGES</b>		<b>BENCHMARK</b>	
No.	Description	Approved by	Date
ORIGINAL			X-X-XX
DESCRIPTION: COTTONWOOD GOLF COURSE		APPROVED BY: _____	
LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3		DATE: _____	
RECORD FROM: ROS 16512		ENGINEER OF WORK: _____	
ELEVATION: 488.50 FEET		BY: WAYNE W. CHANG R.C.E. 46248	
DATUM: NGVD 29		Grading Permit No. _____	



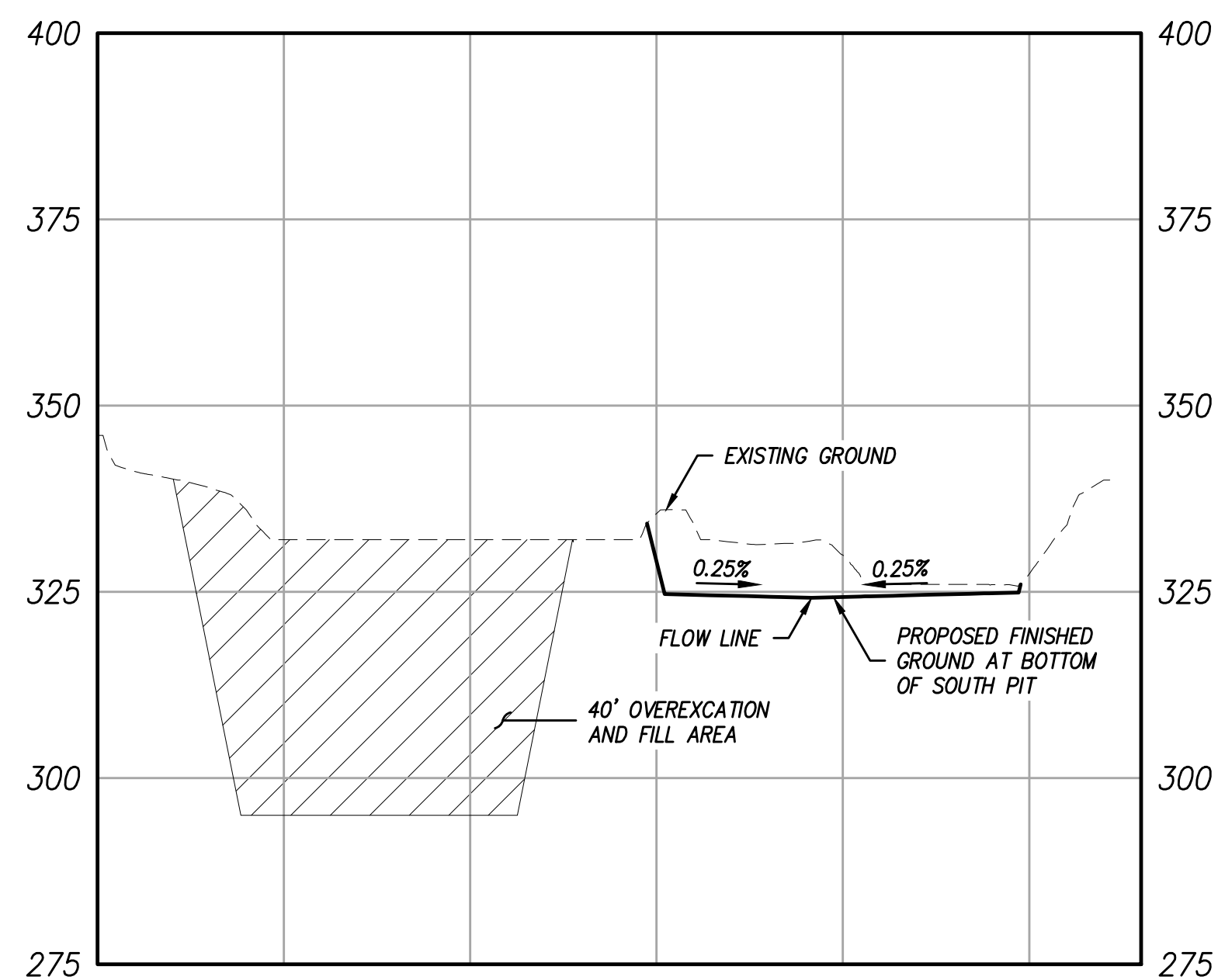
SECTION A-A  
SCALE HORIZ/VERT: 1" = 200'



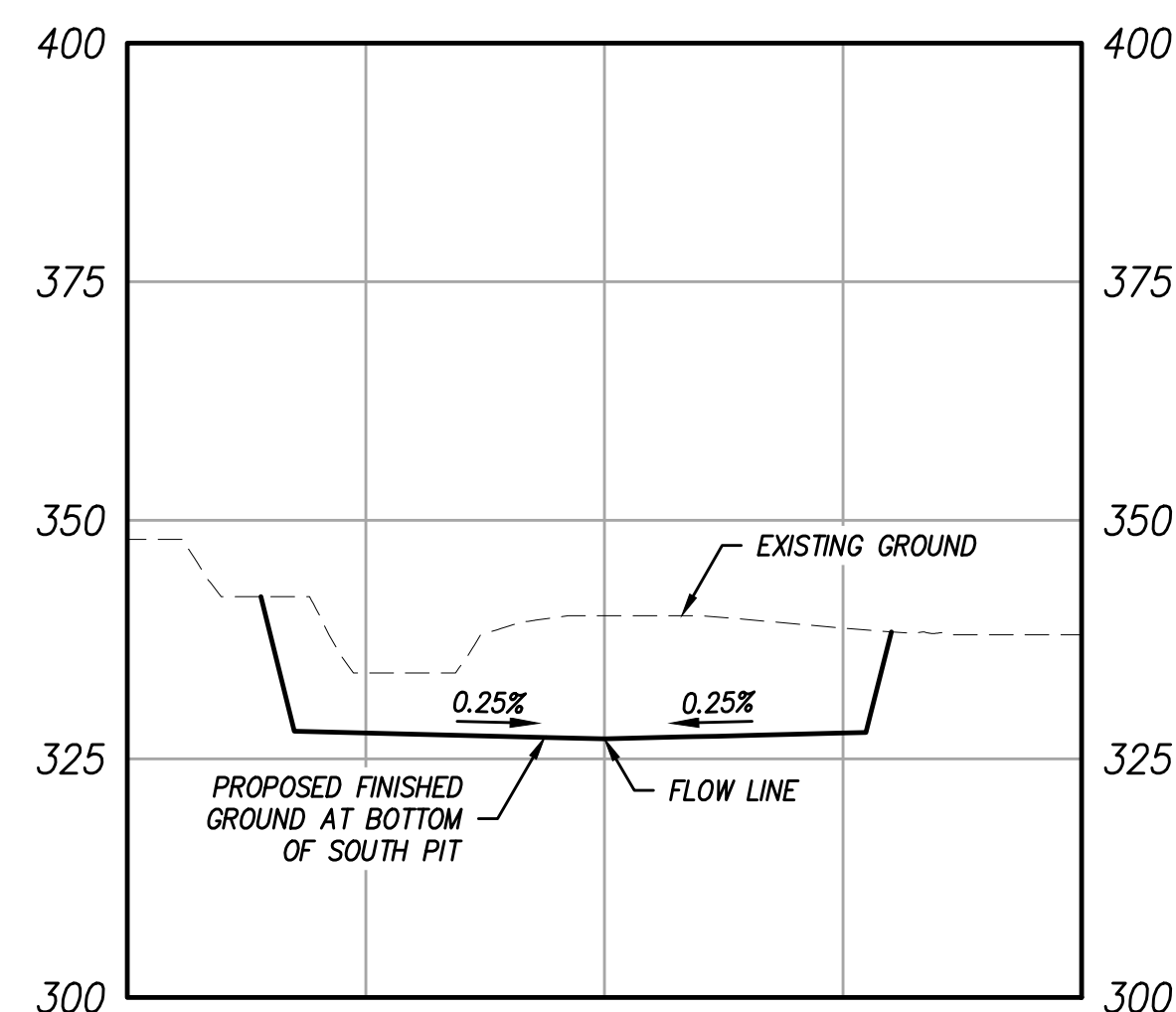
SECTION B-B  
SCALE HORIZ/VERT: 1" = 200'



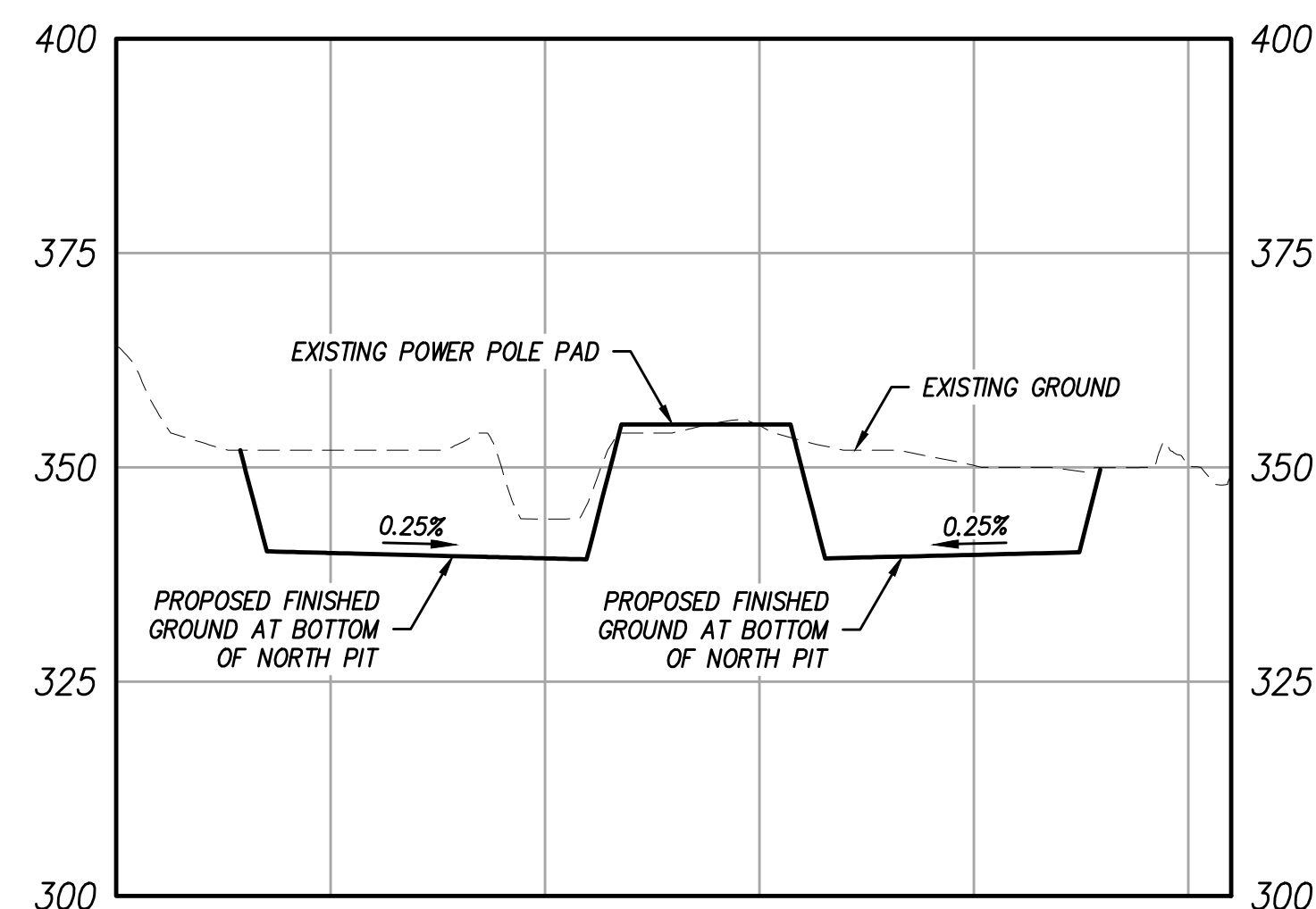
<b>COUNTY APPROVED CHANGES</b>				<b>PERMITS</b>		<b>PRIVATE CONTRACT</b>	
No.	Description	Approved by	Date	HABITAT LOSS PERMIT NO.	N.O.I. NO.	SHEET	COUNTY ENGINEER
	ORIGINAL		X--X--XX	SPECIFIC PLAN AMENDMENT	SPECIAL USE PERMIT NO.	4	6 SHEETS
				<b>BENCHMARK</b>		<b>RECLAMATION PLAN FOR:</b>	
				DESCRIPTION: COTTONWOOD GOLF COURSE		<b>COTTONWOOD SAND MINING PROJECT</b>	
				LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3		CALIFORNIA COORDINATE INDEX: 210-1791	
				RECORD FROM: ROS 16512		Approved BY: COUNTY ENGINEER	
				ELEVATION: 488.50 FEET DATUM: NGVD 29		Engineer of work: WAYNE W. CHANG R.C.E. 46548	
						Grading Permit No.	



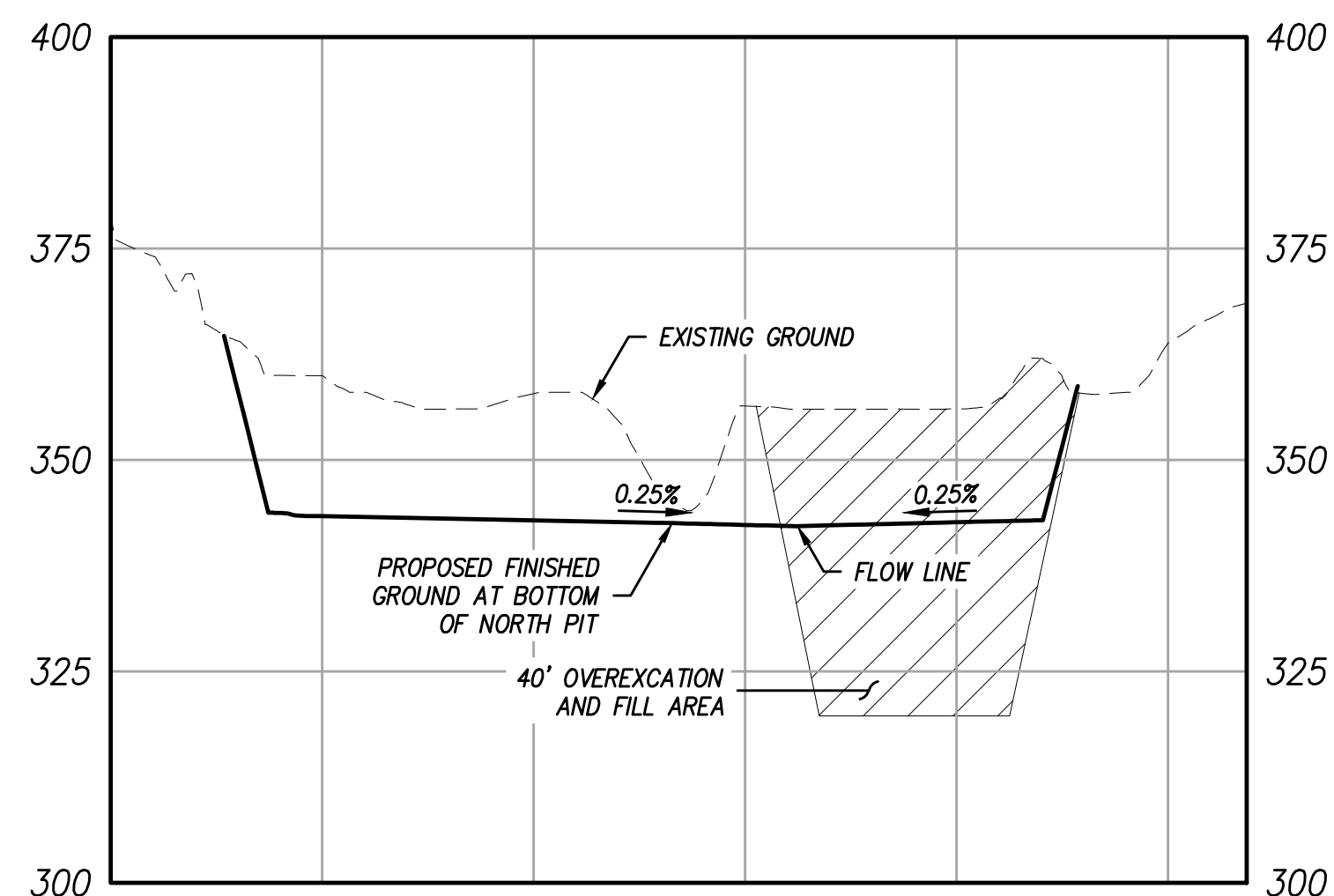
SECTION C-C  
SCALE HORIZ/VERT: 1" = 200'



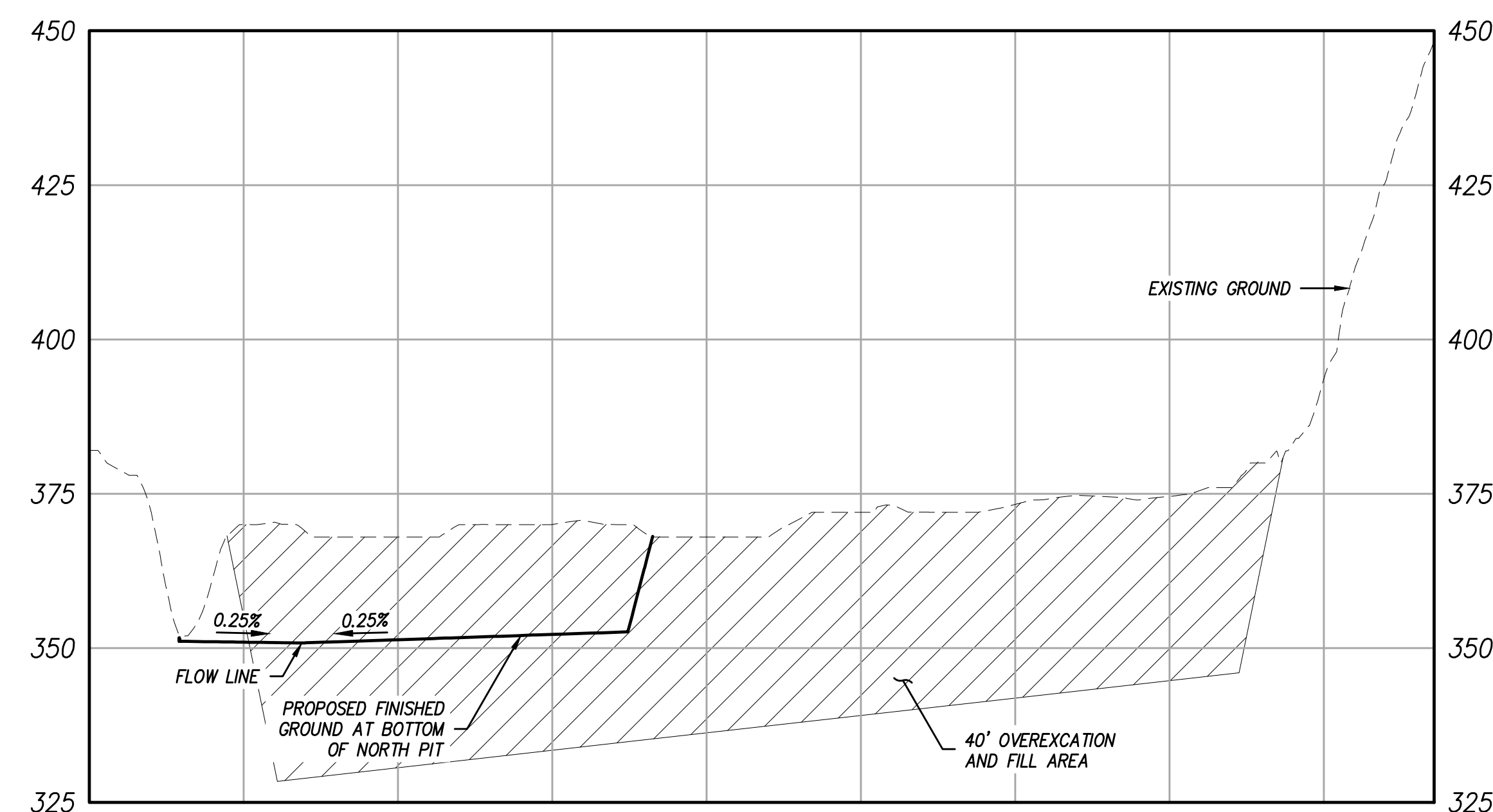
SECTION D-D  
SCALE HORIZ/VERT: 1" = 200'



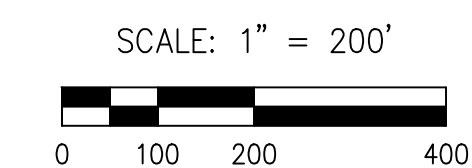
SECTION E-E  
SCALE HORIZ/VERT: 1" = 200'



SECTION F-F  
SCALE HORIZ/VERT: 1" = 200'



SECTION G-G  
SCALE HORIZ/VERT: 1" = 200'



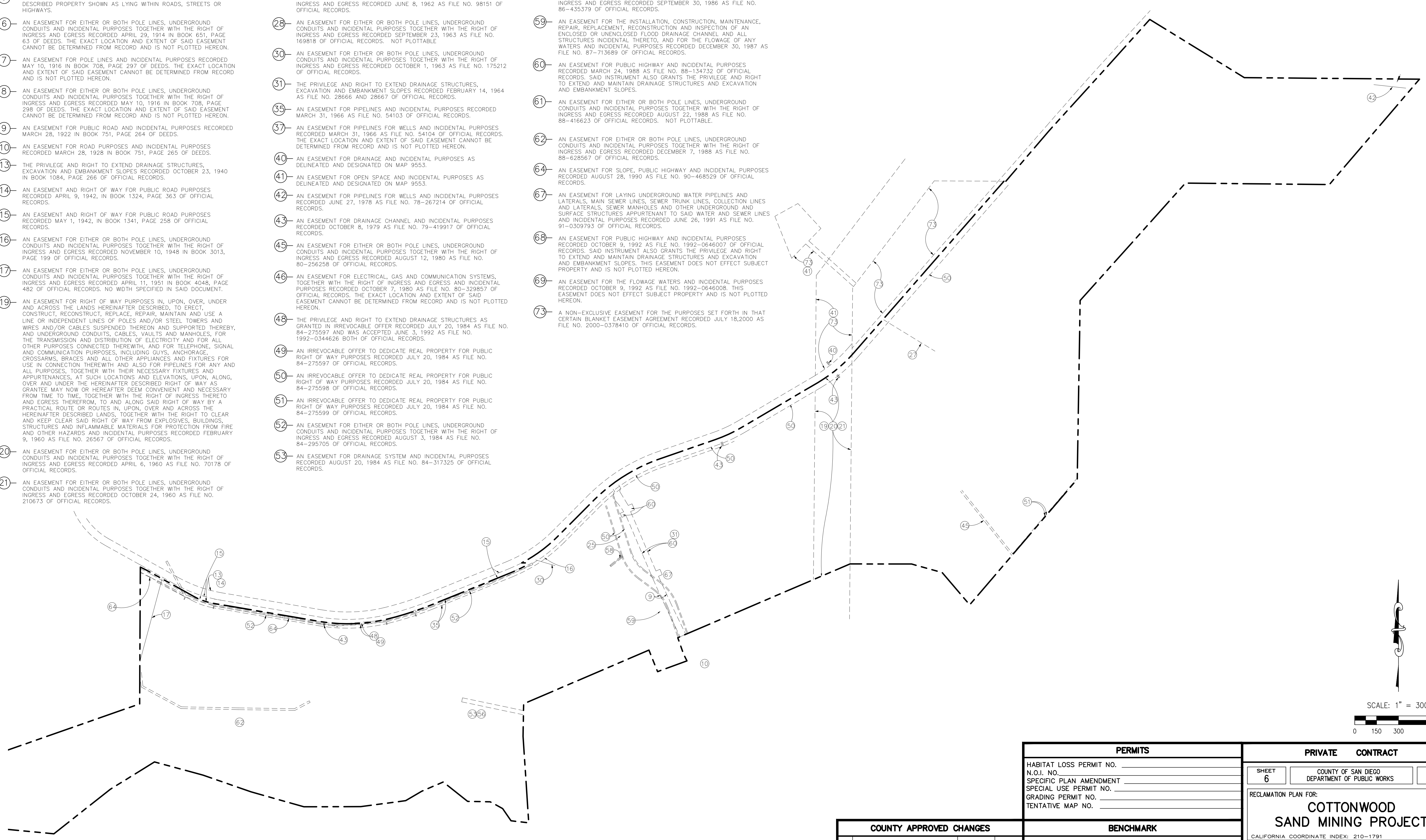
<b>COUNTY APPROVED CHANGES</b>				<b>PERMITS</b>		<b>PRIVATE CONTRACT</b>	
No.	Description	Approved by	Date	HABITAT LOSS PERMIT NO. _____	SHEET <b>5</b> COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS <b>6</b> SHEETS		
	ORIGINAL		X--X--XX	N.O.I. NO. _____	<b>COTTONWOOD SAND MINING PROJECT</b>		
				SPECIFIC PLAN AMENDMENT _____			
				SPECIAL USE PERMIT NO. _____	CALIFORNIA COORDINATE INDEX: 210-1791		
				GRADING PERMIT NO. _____	Approved COUNTY ENGINEER BY: _____		
				TENTATIVE MAP NO. _____	Engineer of work _____		
				<b>BENCHMARK</b>		WAYNE W. CHANG R.C.E. 46548	
				DESCRIPTION: COTTONWOOD GOLF COURSE		Grading Permit No. _____	
				LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3			
				RECORD FROM: ROS 16512			
				ELEVATION: 488.50 FEET DATUM: NGVD 29			

THIS SURVEY WAS BASED ON A PRELIMINARY TITLE REPORT ISSUED BY FIRST AMERICAN TITLE COMPANY, AS ORDER NO. 1235014-20, DATED FEBRUARY 12, 2002. EFFECTS OF AGREEMENTS, PERMITS, LIENS, ASSESSMENTS, LEASES, COVENANTS, AND/OR RESTRICTIONS APPEARING IN SAID POLICY AS ITEM NOS. 1-4, 11, 12, 18, 22-24, 26, 29, 32-34, 36, 38, 39, 44, 47, 54, 55, 57, 63, 65, 66, AND 70-72, INCLUSIVE, ARE NOT NOTED ON THIS SURVEY.

- 5- RIGHTS OF THE PUBLIC IN AND TO ANY PORTION OF THE HEREIN DESCRIBED PROPERTY SHOWN AS LYING WITHIN ROADS, STREETS OR HIGHWAYS.
- 6- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED APRIL 29, 1914 IN BOOK 651, PAGE 63 OF DEEDS. THE EXACT LOCATION AND EXTENT OF SAID EASEMENT CANNOT BE DETERMINED FROM RECORD AND IS NOT PLOTTED HEREON.
- 7- AN EASEMENT FOR POLE LINES AND INCIDENTAL PURPOSES RECORDED MAY 10, 1916 IN BOOK 708, PAGE 297 OF DEEDS. THE EXACT LOCATION AND EXTENT OF SAID EASEMENT CANNOT BE DETERMINED FROM RECORD AND IS NOT PLOTTED HEREON.
- 8- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED MAY 10, 1916 IN BOOK 708, PAGE 298 OF DEEDS. THE EXACT LOCATION AND EXTENT OF SAID EASEMENT CANNOT BE DETERMINED FROM RECORD AND IS NOT PLOTTED HEREON.
- 9- AN EASEMENT FOR PUBLIC ROAD AND INCIDENTAL PURPOSES RECORDED MARCH 28, 1922 IN BOOK 751, PAGE 264 OF DEEDS.
- 10- AN EASEMENT FOR ROAD PURPOSES AND INCIDENTAL PURPOSES RECORDED MARCH 28, 1928 IN BOOK 751, PAGE 265 OF DEEDS.
- 13- THE PRIVILEGE AND RIGHT TO EXTEND DRAINAGE STRUCTURES, EXCAVATION AND EMBANKMENT SLOPES RECORDED OCTOBER 23, 1940 IN BOOK 1084, PAGE 266 OF OFFICIAL RECORDS.
- 14- AN EASEMENT AND RIGHT OF WAY FOR PUBLIC ROAD PURPOSES RECORDED APRIL 9, 1942, IN BOOK 1324, PAGE 363 OF OFFICIAL RECORDS.
- 15- AN EASEMENT AND RIGHT OF WAY FOR PUBLIC ROAD PURPOSES RECORDED MAY 1, 1942, IN BOOK 1341, PAGE 258 OF OFFICIAL RECORDS.
- 16- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED NOVEMBER 10, 1948 IN BOOK 3013, PAGE 199 OF OFFICIAL RECORDS.
- 17- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED APRIL 11, 1951 IN BOOK 4048, PAGE 482 OF OFFICIAL RECORDS. NO WIDTH SPECIFIED IN SAID DOCUMENT.
- 19- AN EASEMENT FOR RIGHT OF WAY PURPOSES IN, UPON, OVER, UNDER AND ACROSS THE LANDS HEREINAFTER DESCRIBED, TO ERECT, CONSTRUCT, RECONSTRUCT, REPLACE, REPAIR, MAINTAIN AND USE A LINE OR INDEPENDENT LINES OF POLES AND/OR STEEL TOWERS AND WIRES AND/OR CABLES SUSPENDED THEREON AND SUPPORTED THEREBY, AND UNDERGROUND CONDUITS, CABLES, VAULTS AND MANHOLES, FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRICITY AND FOR ALL OTHER PURPOSES CONNECTED THEREWITH, AND FOR TELEPHONE, SIGNAL AND COMMUNICATION PURPOSES, INCLUDING GUYS, ANCHORAGE, CROSSARMS, BRACES AND ALL OTHER APPLIANCES AND FIXTURES FOR USE IN CONNECTION THEREWITH AND ALSO FOR PIPELINES FOR ANY AND ALL PURPOSES, TOGETHER WITH THEIR NECESSARY FIXTURES AND APPURTENANCES, AT SUCH LOCATIONS AND ELEVATIONS, UPON, ALONG, OVER AND UNDER THE HEREINAFTER DESCRIBED RIGHT OF WAY AS GRANTEE MAY NOW OR HEREAFTER DEEM CONVENIENT AND NECESSARY FROM TIME TO TIME, TOGETHER WITH THE RIGHT OF INGRESS THERETO AND EGRESS THEREFROM, TO AND ALONG SAID RIGHT OF WAY BY A PRACTICAL ROUTE OR ROUTES IN, UPON, OVER AND ACROSS THE HEREINAFTER DESCRIBED LANDS, TOGETHER WITH THE RIGHT TO CLEAR AND KEEP CLEAR SAID RIGHT OF WAY FROM EXPLOSIVES, BUILDINGS, STRUCTURES AND INFLAMMABLE MATERIALS FOR PROTECTION FROM FIRE AND OTHER HAZARDS AND INCIDENTAL PURPOSES RECORDED FEBRUARY 9, 1960 AS FILE NO. 26567 OF OFFICIAL RECORDS.
- 20- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED APRIL 6, 1960 AS FILE NO. 70178 OF OFFICIAL RECORDS.
- 21- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED OCTOBER 24, 1960 AS FILE NO. 210673 OF OFFICIAL RECORDS.

- 25- AN EASEMENT AND RIGHT OF WAY FOR PUBLIC ROAD PURPOSES RECORDED MARCH 29, 1962 AS FILE NO. 53378 OF OFFICIAL RECORDS.
- 27- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED JUNE 8, 1962 AS FILE NO. 98151 OF OFFICIAL RECORDS.
- 28- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED SEPTEMBER 23, 1963 AS FILE NO. 169818 OF OFFICIAL RECORDS. NOT PLOTTABLE.
- 30- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED OCTOBER 1, 1963 AS FILE NO. 175212 OF OFFICIAL RECORDS.
- 31- THE PRIVILEGE AND RIGHT TO EXTEND DRAINAGE STRUCTURES, EXCAVATION AND EMBANKMENT SLOPES RECORDED FEBRUARY 14, 1964 AS FILE NO. 28666 AND 28667 OF OFFICIAL RECORDS.
- 35- AN EASEMENT FOR PIPELINES AND INCIDENTAL PURPOSES RECORDED MARCH 31, 1966 AS FILE NO. 54103 OF OFFICIAL RECORDS.
- 37- AN EASEMENT FOR PIPELINES FOR WELLS AND INCIDENTAL PURPOSES RECORDED MARCH 31, 1966 AS FILE NO. 54104 OF OFFICIAL RECORDS. THE EXACT LOCATION AND EXTENT OF SAID EASEMENT CANNOT BE DETERMINED FROM RECORD AND IS NOT PLOTTED HEREON.
- 40- AN EASEMENT FOR DRAINAGE AND INCIDENTAL PURPOSES AS DELINEATED AND DESIGNATED ON MAP 9553.
- 41- AN EASEMENT FOR OPEN SPACE AND INCIDENTAL PURPOSES AS DELINEATED AND DESIGNATED ON MAP 9553.
- 42- AN EASEMENT FOR PIPELINES FOR WELLS AND INCIDENTAL PURPOSES RECORDED JUNE 27, 1978 AS FILE NO. 78-267214 OF OFFICIAL RECORDS.
- 43- AN EASEMENT FOR DRAINAGE CHANNEL AND INCIDENTAL PURPOSES RECORDED OCTOBER 8, 1979 AS FILE NO. 79-419917 OF OFFICIAL RECORDS.
- 45- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED AUGUST 12, 1980 AS FILE NO. 80-256258 OF OFFICIAL RECORDS.
- 46- AN EASEMENT FOR ELECTRICAL, GAS AND COMMUNICATION SYSTEMS, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS AND INCIDENTAL PURPOSES RECORDED OCTOBER 7, 1980 AS FILE NO. 80-329857 OF OFFICIAL RECORDS. THE EXACT LOCATION AND EXTENT OF SAID EASEMENT CANNOT BE DETERMINED FROM RECORD AND IS NOT PLOTTED HEREON.
- 48- THE PRIVILEGE AND RIGHT TO EXTEND DRAINAGE STRUCTURES AS GRANTED IN IRREVOCABLE OFFER RECORDED JULY 20, 1984 AS FILE NO. 84-275597 AND WAS ACCEPTED JUNE 3, 1992 AS FILE NO. 1992-0344626 BOTH OF OFFICIAL RECORDS.
- 49- AN IRREVOCABLE OFFER TO DEDICATE REAL PROPERTY FOR PUBLIC RIGHT OF WAY PURPOSES RECORDED JULY 20, 1984 AS FILE NO. 84-275597 OF OFFICIAL RECORDS.
- 50- AN IRREVOCABLE OFFER TO DEDICATE REAL PROPERTY FOR PUBLIC RIGHT OF WAY PURPOSES RECORDED JULY 20, 1984 AS FILE NO. 84-275598 OF OFFICIAL RECORDS.
- 51- AN IRREVOCABLE OFFER TO DEDICATE REAL PROPERTY FOR PUBLIC RIGHT OF WAY PURPOSES RECORDED JULY 20, 1984 AS FILE NO. 84-275599 OF OFFICIAL RECORDS.
- 52- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED AUGUST 3, 1984 AS FILE NO. 84-295705 OF OFFICIAL RECORDS.
- 53- AN EASEMENT FOR DRAINAGE SYSTEM AND INCIDENTAL PURPOSES RECORDED AUGUST 20, 1984 AS FILE NO. 84-317325 OF OFFICIAL RECORDS.

- 56- AN EASEMENT FOR DRAINAGE AND INCIDENTAL PURPOSES RECORDED MAY 1, 1985 AS FILE NO. 85-152525 OF OFFICIAL RECORDS.
- 58- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED SEPTEMBER 30, 1986 AS FILE NO. 86-435379 OF OFFICIAL RECORDS.
- 59- AN EASEMENT FOR THE INSTALLATION, CONSTRUCTION, MAINTENANCE, REPAIR, REPLACEMENT, RECONSTRUCTION AND INSPECTION OF AN ENCLOSED OR UNENCLOSED FLOOD DRAINAGE CHANNEL AND ALL STRUCTURES INCIDENTAL THERETO, AND FOR THE FLOWAGE OF ANY WATERS AND INCIDENTAL PURPOSES RECORDED DECEMBER 30, 1987 AS FILE NO. 87-713689 OF OFFICIAL RECORDS.
- 60- AN EASEMENT FOR PUBLIC HIGHWAY AND INCIDENTAL PURPOSES RECORDED MARCH 24, 1988 AS FILE NO. 88-134732 OF OFFICIAL RECORDS. SAID INSTRUMENT ALSO GRANTS THE PRIVILEGE AND RIGHT TO EXTEND AND MAINTAIN DRAINAGE STRUCTURES AND EXCAVATION AND EMBANKMENT SLOPES.
- 61- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED AUGUST 22, 1988 AS FILE NO. 88-416623 OF OFFICIAL RECORDS. NOT PLOTTABLE.
- 62- AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED DECEMBER 7, 1988 AS FILE NO. 88-628567 OF OFFICIAL RECORDS.
- 64- AN EASEMENT FOR SLOPE, PUBLIC HIGHWAY AND INCIDENTAL PURPOSES RECORDED AUGUST 28, 1990 AS FILE NO. 90-468529 OF OFFICIAL RECORDS.
- 67- AN EASEMENT FOR LAYING UNDERGROUND WATER PIPELINES AND LATERALS, MAIN SEWER LINES, SEWER TRUNK LINES, COLLECTION LINES AND LATERALS, SEWER MANHOLES AND OTHER UNDERGROUND AND SURFACE STRUCTURES APPURTENANT TO SAID WATER AND SEWER LINES AND INCIDENTAL PURPOSES RECORDED JUNE 26, 1991 AS FILE NO. 91-0309793 OF OFFICIAL RECORDS.
- 68- AN EASEMENT FOR PUBLIC HIGHWAY AND INCIDENTAL PURPOSES RECORDED OCTOBER 9, 1992 AS FILE NO. 1992-0646007 OF OFFICIAL RECORDS. SAID INSTRUMENT ALSO GRANTS THE PRIVILEGE AND RIGHT TO EXTEND AND MAINTAIN DRAINAGE STRUCTURES AND EXCAVATION AND EMBANKMENT SLOPES. THIS EASEMENT DOES NOT EFFECT SUBJECT PROPERTY AND IS NOT PLOTTED HEREON.
- 69- AN EASEMENT FOR THE FLOWAGE WATERS AND INCIDENTAL PURPOSES RECORDED OCTOBER 9, 1992 AS FILE NO. 1992-0646008. THIS EASEMENT DOES NOT EFFECT SUBJECT PROPERTY AND IS NOT PLOTTED HEREON.
- 73- A NON-EXCLUSIVE EASEMENT FOR THE PURPOSES SET FORTH IN THAT CERTAIN BLANKET EASEMENT AGREEMENT RECORDED JULY 18, 2000 AS FILE NO. 2000-0378410 OF OFFICIAL RECORDS.



FOR REVIEW ONLY

<b>COUNTY APPROVED CHANGES</b>				<b>BENCHMARK</b>	
No.	Description	Approved by	Date	DESCRIPTION:	COTTONWOOD GOLF COURSE
	ORIGINAL		X--XX	LOCATION:	NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3
				RECORD FROM:	ROS 16512
				ELEVATION:	488.50 FEET      DATUM: NGVD 29

<b>PERMITS</b>		<b>PRIVATE CONTRACT</b>	
HABITAT LOSS PERMIT NO. _____		SHEET <b>6</b> COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS <b>6</b> SHEETS	
N.O.I. NO. _____		SPECIAL PLAN AMENDMENT	
SPECIAL USE PERMIT NO. _____		RECLAMATION PLAN FOR:	
GRADING PERMIT NO. _____		<b>COTTONWOOD SAND MINING PROJECT</b>	
TENTATIVE MAP NO. _____		CALIFORNIA COORDINATE INDEX: 210-1791	
Approved COUNTY ENGINEER BY: _____		Engineer of work: <b>WAYNE W. CHANG</b> R.C.E. 46548	
Date: _____		Grading Permit No. _____	

ENGINEER'S NAME: CHANG CONSULTANTS PHONE NO. (858) 692-0760