

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

5. 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 OWNER 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.

6. 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.

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

8. 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 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 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:

MAXIMUM SLOPE RATIOS TO BE 3:1
- 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.
- COMPACTION TESTING AND A COMPACTION REPORT IS REQUIRED FOR ALL FINISH PADS THAT ARE OVER 12" IN DEPTH.
- AN INDUSTRIAL SWPPP WILL OUTLINE BEST MANAGEMENT PRACTICES REQUIRED DURING MINING AND RECLAMATION.
- EXISTING TRAFFIC SIGNS ALONG WILLOW GLEN ROAD TO REMAIN. SIGNS WILL BE ADDED TO SITE ENTRANCE AND EXIT AS REQUIRED BY THE COUNTY OF SAN DIEGO. SMALL SAFETY SIGNS REQUIRED BY MSHA WILL BE PLACED ON FENCES AROUND THE PROJECT AREA. NO SIGNS WILL BE ILLUMINATED.
- CONTRACTOR SHALL REMOVE BOTH ABOVEGROUND STORAGE TANKS AT THE EXISTING GOLF COURSE MAINTENANCE FACILITY. ONE IS A 1,000 GALLON DIESEL AST AND THE OTHER IS A 500 GALLON GASOLINE AST.

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

EARTHWORK QUANTITIES

0 CY FILL	
EAST 1,655,000 CY CUT	(2,482,500 TONS)
WEST 319,200 CY CUT	(478,800 TONS)
MINING AND BACKFILL 2,292,700 CY CUT	(3,439,050 TONS)
4,266,900 CY CUT	(6,400,350 TONS)

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.

PROJECT PHASING

PHASE 1 - 319,200 CY CUT (MINING/BACKFILL OVEREX 971,200 CY CUT)
THE FIRST PHASE (PHASE 1) WILL INCLUDE SITE DEVELOPMENT FOR THE CONSTRUCTION OF THE ACCESS ROAD, PROCESSING AREA PAD, SCREENING BERMS AND INSTALLATION OF THE CONVEYOR LINE AND PROCESSING PLANT. IN ADDITION THE PROJECT WILL WIDEN AND RESTRIPE A PORTION OF WILLOW GLEN DRIVE AND ADD A 5'- TO 8'-WIDE PATHWAY ALONG A PORTION OF WILLOW GLEN DRIVE. FOLLOWING INITIAL SITE DEVELOPMENT ACTIVITIES, EXTRACTIVE OPERATIONS WILL COMMENCE IN THE AREA WEST OF STEELE CANYON ROAD.

INITIAL EXTRACTIVE OPERATIONS WILL INVOLVE REMOVAL OF ALL MATERIALS FROM THE SURFACE TO APPROXIMATELY 15 TO 40 FEET BELOW GROUND SURFACE (BGS) WITH A COMBINATION OF FRONT END LOADERS AND AN EXCAVATOR. EACH PIECE OF EXCAVATION EQUIPMENT WILL WORK IN SEPARATE AREAS. THIS EQUIPMENT WILL MOVE MATERIAL DIRECTLY TO THE CONVEYOR. APPROXIMATELY 79 ACRES WILL BE INCLUDED IN PHASE 1 WHICH WILL INCLUDE APPROXIMATELY 10 ACRES OF HABITAT IMPROVEMENT WITHIN THE RIVER CHANNEL ON THE SOUTHWEST END OF THE PROJECT.

PHASE 1 WILL BEGIN EXCAVATION IN THE SUB-PHASE 1A AREA SOUTH OF THE RIVER CHANNEL. ONCE EXCAVATION IS COMPLETE IN SUB-PHASE 1A, THE CONVEYOR LINE AND EXCAVATING EQUIPMENT WILL MOVE TO THE SUB-PHASE 1B AREA ON THE SOUTHWESTERN EDGE OF THE PROJECT. RECLAMATION IN SUB-PHASE 1A WOULD THEN BEGIN WITH FINAL GRADING, INSTALLATION OF IRRIGATION EQUIPMENT AND REVEGETATION. THIS PROCESS WILL CONTINUE IN SUB-PHASES 1B AND 1C. EXCAVATION IN EACH SUB-PHASE IS EXPECTED TO TAKE APPROXIMATELY ONE YEAR.

RECLAMATION OF THE PHASE 1 AREA WILL BEGIN ANNUALLY AS THE FINAL LANDFORMS ARE ESTABLISHED IN EACH SUB-PHASE. RECLAMATION WILL INCLUDE ESTABLISHMENT OF ALL FINAL SLOPES, INCORPORATION OF ANY ACCUMULATED WASH FINES AND TOPSOIL; REVEGETATION USING NATIVE SPECIES COMMON TO RIPARIAN HABITAT AND/OR UPLAND VEGETATION DEPENDING ON THE LOCATION OF THE LANDFORM; ESTABLISHMENT OF PADS SUITABLE FOR FUTURE DEVELOPMENT SEEDED WITH AN EROSION SEED MIX; WEED CONTROL, AND MONITORING.

PHASE 2 - 356,500 CY CUT (MINING/BACKFILL OVEREX 458,200 CY CUT)
PHASE 2 WILL CONTINUE THE IDENTICAL EXTRACTION PROCESS IN A WEST TO EAST DIRECTION ON AN AREA OF APPROXIMATELY 48 ACRES EAST OF THE STEELE CANYON ROAD BRIDGE. THIS PHASE IS ANTICIPATED TO LAST APPROXIMATELY 3 YEARS. EXCAVATION OF THE MATERIALS WILL CONTINUE IN THE WEST AND PROCEED EASTWARD IN THE SAME FASHION AS UTILIZED IN PHASE 1. THE MAXIMUM DEPTH OF THE EXCAVATION IS EXPECTED TO BE APPROXIMATELY 15 TO 40 FEET BELOW GROUND SURFACE OUTSIDE THE CHANNEL.

PHASE 2 WILL ALSO INCLUDE 3 SUB-PHASES OF 14 TO 19 ACRE AREAS THAT WILL BEGIN WITH SUB-PHASE 2A AND PROGRESS TO THE NORTHEAST. EXCAVATION IN EACH SUB-PHASE IS EXPECTED TO BE COMPLETED IN APPROXIMATELY 1 YEAR.

RECLAMATION OF THE PHASE 2 SUB-PHASES WILL BEGIN EACH YEAR AS THE FINAL LANDFORMS ARE ESTABLISHED IN EACH SUB-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, UPLAND VEGETATION ON THE UPPER SLOPES AND ESTABLISHMENT OF PADS SUITABLE FOR FUTURE DEVELOPMENT. PADS WILL BE SEEDED WITH AN EROSION CONTROL SEED MIX. SEEDING AND PLANTING WILL GENERALLY OCCUR DURING THE RAINY SEASON.

PHASE 3 - 1,052,200 CY CUT (MINING/BACKFILL OVEREX 863,300 CY CUT)
THE EXTRACTION PROCESS IN PHASE 3 IS A REPEAT OF PHASE 2 ON APPROXIMATELY 79 ACRES OF THE VALLEY, EAST OF THE PHASE 2 AREA. PHASE 3 IS ANTICIPATED TO LAST ABOUT 4 YEARS. WILL INCLUDE 4 SUB-PHASES AND WILL EMPLOY THE SAME PROCEDURE AS THE TWO PREVIOUS PHASES. UPON CONCLUSION OF PHASE 2, THE CONVEYOR LINE WILL BE RELOCATED TO RUN FROM THE PLANT TO THE EAST. SUB-PHASE 3A WILL BE LOCATED AT THE NORTHEAST EDGE OF THE PROPERTY. EXCAVATION OF EACH SUB-PHASE WILL PROCEED WESTWARD.

RECLAMATION IN EACH OF THE PHASE 3 SUB-PHASES WILL BEGIN EACH YEAR AS THE FINAL LANDFORMS ARE ESTABLISHED. 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, UPLAND VEGETATION ON THE UPPER SLOPES AND ESTABLISHMENT OF PADS SUITABLE FOR POSSIBLE FUTURE DEVELOPMENT. ALL PADS WILL BE PLANTED WITH AN EROSION CONTROL SEED MIX.

PHASE 4 - 246,300 CY CUT
PHASE 4 WILL CONSIST OF EXCAVATION OF MATERIALS BENEATH PLANT, BACKFILLING PLANT AREA, FINAL RECLAMATION EFFORTS, CLEANUP AND EQUIPMENT REMOVAL. REVEGETATION MONITORING WILL CONTINUE AFTER THIS FINAL PHASE. MINE PHASE ACRES AND THE ESTIMATED DURATION OF EACH PHASE ARE SUMMARIZED IN TABLE 4 AND ASSUMES A PROJECT START IN 2021.

MINE PHASE ACRES

Mining Phase	Acres	Subphase Area (acres)	Mining Duration (years)	Mining Initiation Date (est.)	Mining Completion Date (est.)	Reclamation Completion Date (est.)
Phase 1	78.98		3	2022	2025	2027
Subphase 1A	-	22.10	1	-	-	-
Subphase 1B	-	26.46	1	-	-	-
Subphase 1C	-	30.42	1	-	-	-
Phase 2	48.18		3	2025	2028	2030
Subphase 2A	-	15.26	1	-	-	-
Subphase 2B	-	19.08	1	-	-	-
Subphase 2C	-	13.74	1	-	-	-
Phase 3	78.57		4	2028	2032	2034
Subphase 3A	-	29.42	1	-	-	-
Subphase 3B	-	16.15	1	-	-	-
Subphase 3C	-	14.13	1	-	-	-
Subphase 3D	-	18.87	1	-	-	-
Phase 4	8.65		1	2032	2032	2034
Total	214.4		10*			

RESOURCE AGENCY PERMITTING

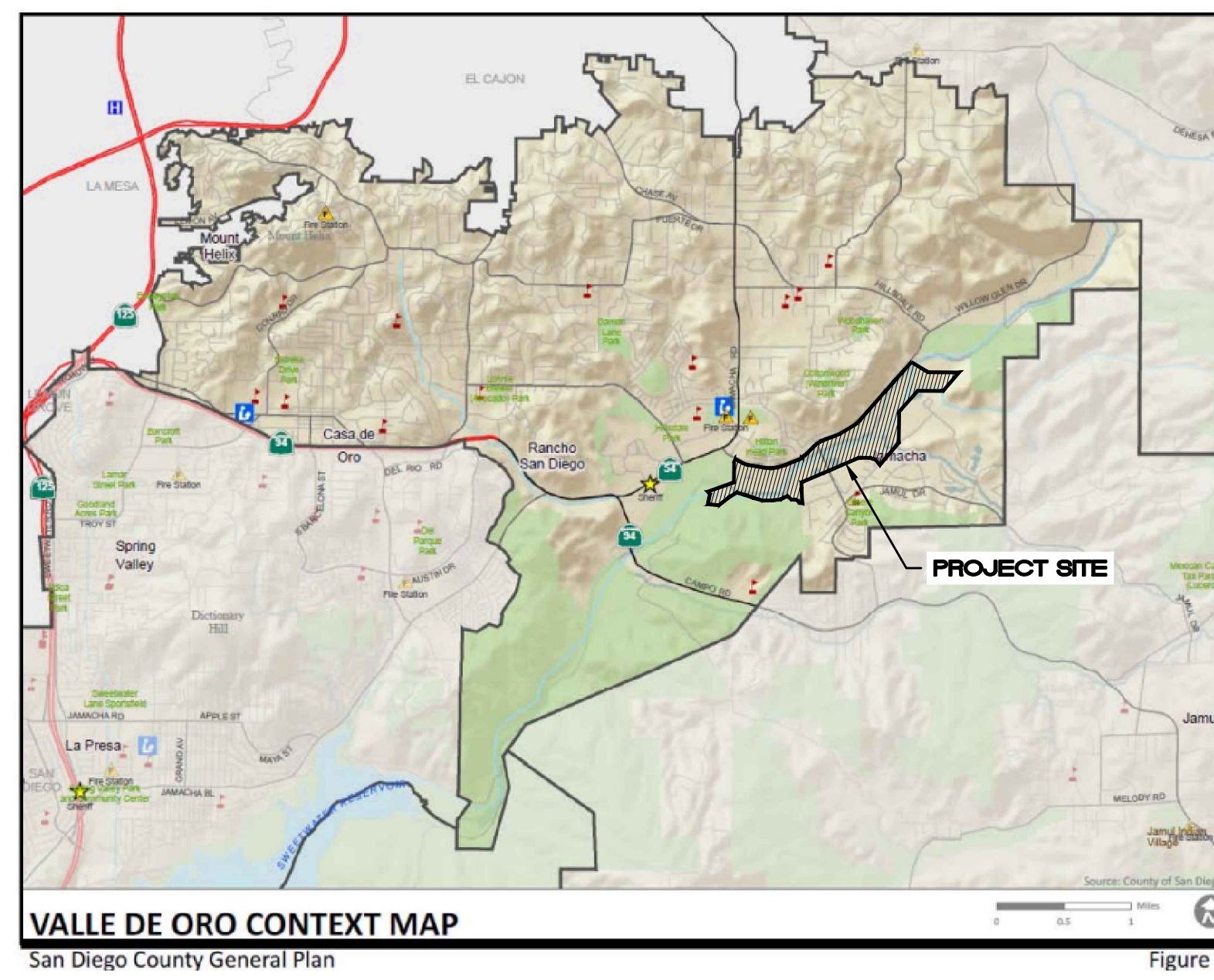
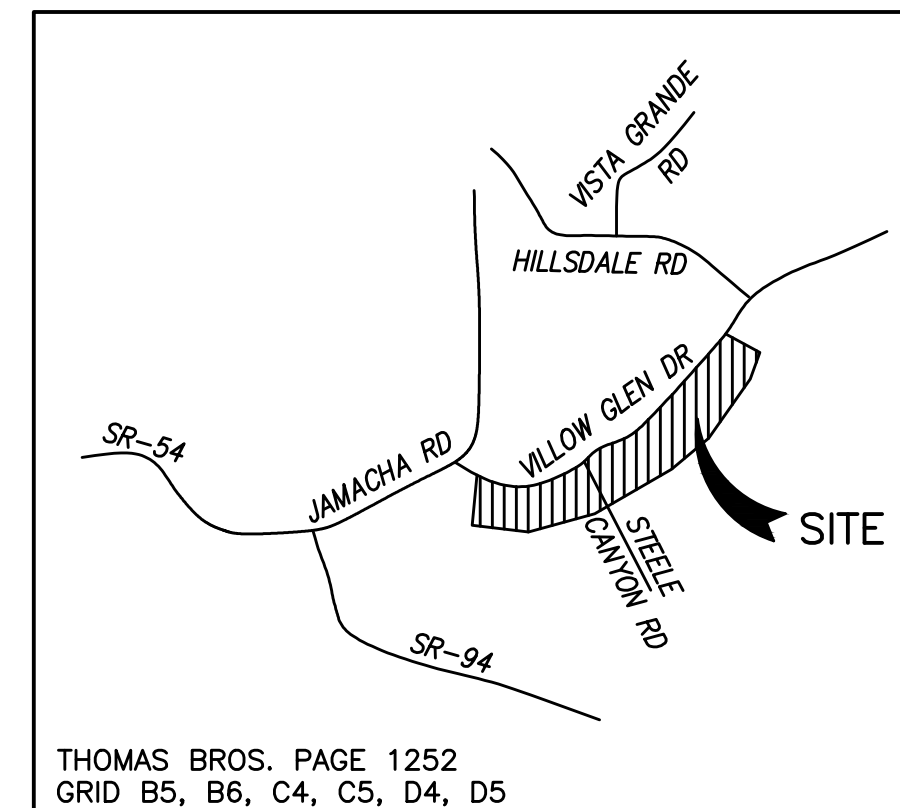
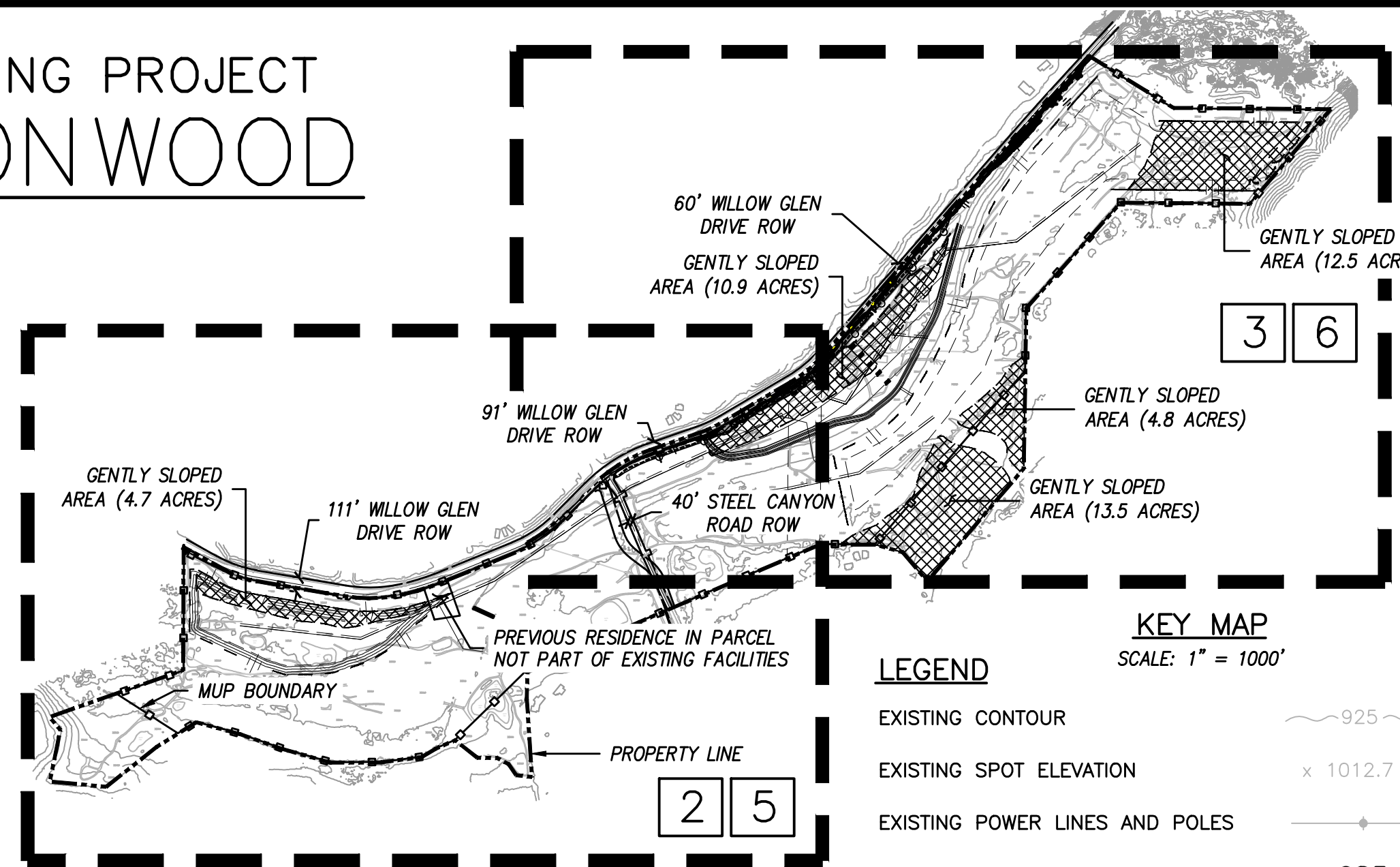
THE SUBJECT PROPERTY CONTAINS WETLANDS, A LAKE, A STREAM, AND/OR WATERS OF THE U.S. AND/OR STATE WHICH MAY BE SUBJECT TO REGULATION BY STATE AND/OR FEDERAL AGENCIES, INCLUDING, BUT NOT LIMITED TO, THE REGIONAL WATER QUALITY CONTROL BOARD, U.S. ARMY CORPS OF ENGINEERS AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE. IT IS THE APPLICANT'S RESPONSIBILITY TO CONSULT WITH EACH AGENCY TO DETERMINE IF A PERMIT, AGREEMENT OR OTHER APPROVAL IS REQUIRED AND TO OBTAIN ALL NECESSARY PERMITS, AGREEMENTS OR APPROVALS BEFORE COMMENCING ANY ACTIVITY WHICH COULD IMPACT THE WETLANDS, LAKE, STREAM, AND/OR WATERS OF THE U.S. ON THE SUBJECT PROPERTY. THE AGENCY CONTACT INFORMATION IS PROVIDED BELOW.

U.S. ARMY CORPS OF ENGINEERS:
915 WILSHIRE BLVD., SUITE 1101
LOS ANGELES, CA 90017
(213) 452-3333
HTTP://WWW.USACE.ARMY.MIL/

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE:
3883 RUFFIN RD.
SAN DIEGO, CA 92123
(858) 636-3160
ASKRS@WILDLIFE.CA.GOV
HTTP://WWW.DFG.CA.GOV/

REGIONAL WATER QUALITY CONTROL BOARD:
2375 NORTHSIDE DRIVE, SUITE 100
SAN DIEGO, CA 92108
RBS_DREDGEFILL@WATERBOARDS.CA.GOV
HTTP://WWW.WATERBOARDS.CA.GOV/SANDIEGO/

**SAND MINING PROJECT
COTTONWOOD**



LEGAL DESCRIPTION

PARCEL 'E' OF C/C 90-0204 TOGETHER WITH PARCELS 'A' AND 'B' OF B/C 92-0038.

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 BACKFILL TO DESIGN ELEVATIONS.

THE MAXIMUM LEVEL OF AGGREGATE PRODUCTION IS ANTICIPATED TO BE 570,000 TONS PER YEAR (TPY). 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 5 YEARS AFTER MINING CEASES.

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 (2021 EDITION), THE REGIONAL SUPPLEMENT AMENDMENTS (2012 EDITION), THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (DATED JULY 2018), SAN DIEGO COUNTY GRADING ORDINANCE, CONSTRUCTION DEMOLITION AND RECYCLING ORDINANCE, LANDSCAPE ORDINANCE, FLOOD DAMAGE AND PREVENTION ORDINANCE, WATERSHED PROTECTION ORDINANCE, HYDROLOGY MANUAL, 2003, HYDRAULIC DESIGN MANUAL, 2014, RESOURCE PROTECTION ORDINANCE, AND BIOLOGICAL MITIGATION ORDINANCE.

OWNER

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

PERMITEE

GREG BROWN
NEW WEST DEVELOPMENT
565 N. MAGNOLIA AVE.,
EL CAJON, CA 92020

ASSESSOR'S PARCEL NUMBERS

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

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

DEFINITIONS	
S90	HOLDING AREA
S88	SPECIFIC PLAN AREA
S80	OPEN SPACE
OS-R	OPEN SPACE - RECREATION

PERMITS

HABITAT LOSS PERMIT NO. _____
INDUSTRIAL GENERAL PERMIT W/ID NO. _____
MAJOR USE PERMIT _____
RECLAMATION PLAN NO. _____
PUBLIC IMPROVEMENT PLAN NO. _____
LOMR NO. _____
404 PERMIT NO. _____
401 PERMIT NO. _____
1602 PERMIT NO. _____

PRIVATE CONTRACT

SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 11 SHEETS

RECLAMATION PLAN FOR:
COTTONWOOD SAND MINING PROJECT

CALIFORNIA COORDINATE INDEX: 210-1791

Approved COUNTY ENGINEER BY: WAYNE W. CHANG R.C.E. 46548

Engineer of work: WAYNE W. CHANG R.C.E. 46548

Grading Permit No. _____

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
ORIGINAL			X--X--

BENCHMARK

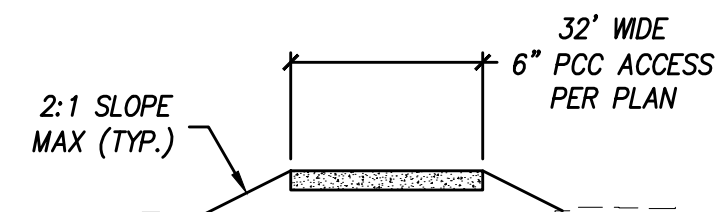
DESCRIPTION: COTTONWOOD GOLF COURSE

LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOD 3

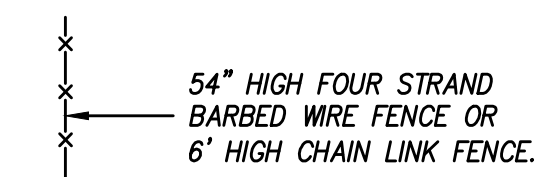
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ELEVATION: 488.50 FEET DATUM: NGVD 29

FOR REVIEW ONLY



SECTION: SITE ACCESS
NOT TO SCALE



DETAIL: PERIMETER FENCE
NOT TO SCALE



- NOTES:
1. DG ROADS TO BE CONSTRUCTED PER SECTION 3.10 OF THE "SAN DIEGO COUNTY STANDARDS FOR PRIVATE ROADS."
 2. ROADS TO BE TWO-WAY ROADS. IN EVENT OF PASSING, ONE VEHICLE WILL TEMPORARILY MOVE ONTO DIRT SURFACE ADJACENT TO ROAD UNTIL PASSING IS COMPLETE. SURFACE RUNOFF TO SHEET FLOW ACROSS OR ALONG ROADS AT 1% MINIMUM SLOPE. SHEET FLOW TO FOLLOW DRAINAGE PATTERN OF AREAS ADJACENT TO ROADS. THERE SHALL BE NO SURFACE PONDING ON ROADS.
 3. ROADS WILL BE PRIVATE, SO EASEMENTS ARE NOT NEEDED.

DETAIL: TEMPORARY AND PERMANENT INTERNAL ROADS
NOT TO SCALE

- NOTES:
1. NEW ACCESS POINTS WILL REQUIRE OBTAINING AND ENCROACHMENT PERMIT FROM THE COUNTY. A DESIGN WILL BE SUBMITTED WITH THE ENCROACHMENT PERMIT APPLICATION.
 2. NO HAUL TRUCKS WILL USE WILLOW GLEN ROAD TO MOVE BACKFILL TO PHASE 1. A LOW PROFILE ARTICULATED HAUL TRUCK OR TRACTOR TRAILER THAT WILL CLEAR THE BRIDGE WILL BE USED ONSITE FOR THAT PURPOSE.
 3. PERIMETER MUP FENCING ALONG WILLOW GLEN DRIVE AND THE NORTHERLY 300' ALONG THE WESTERLY PROPERTY LINE TO BE 6' HIGH AND 3"-4" WELDED STEEL PIPE. THE REMAINDER PERIMETER MUP FENCING TO BE 4' HIGH FOUR-STRAND BARBED WIRE.
 4. ALL EXISTING GOLF CART BRIDGES SHALL BE REMOVED AS PART OF FINAL RECLAMATION. SOME WILL BE USED TO TRANSPORT WASH FINES ACROSS THE CHANNEL FOR THE RECLAMATION OF THE SOUTHERN PHASES SO WE WILL NEED TO REMOVE THOSE AS PART OF FINAL RECLAMATION AFTER BACKFILLING IS DONE

SEE SHEET 11 FOR PROPERTY LINE DIMENSIONS

6" PCC PERMANENT SITE ACCESS (MAIN ACCESS) TO BE GATED WITH TYPE ACCEPTABLE TO COUNTY. GATE WILL BE PLACED 20' FROM WILLOW GLEN TO ALLOW VEHICLE PARKING AT GATE. STREET TREES TO BE ADDED ALONG ACCESS DRIVEWAY. SIGNAGE WILL BE ADDED AT SITE ENTRANCE IN ACCORDANCE WITH MSHA.

NOTE: SAFETY SIGNS WILL BE INSTALLED AS NEEDED AT SITE ENTRANCE AND ON PERIMETER FENCING.

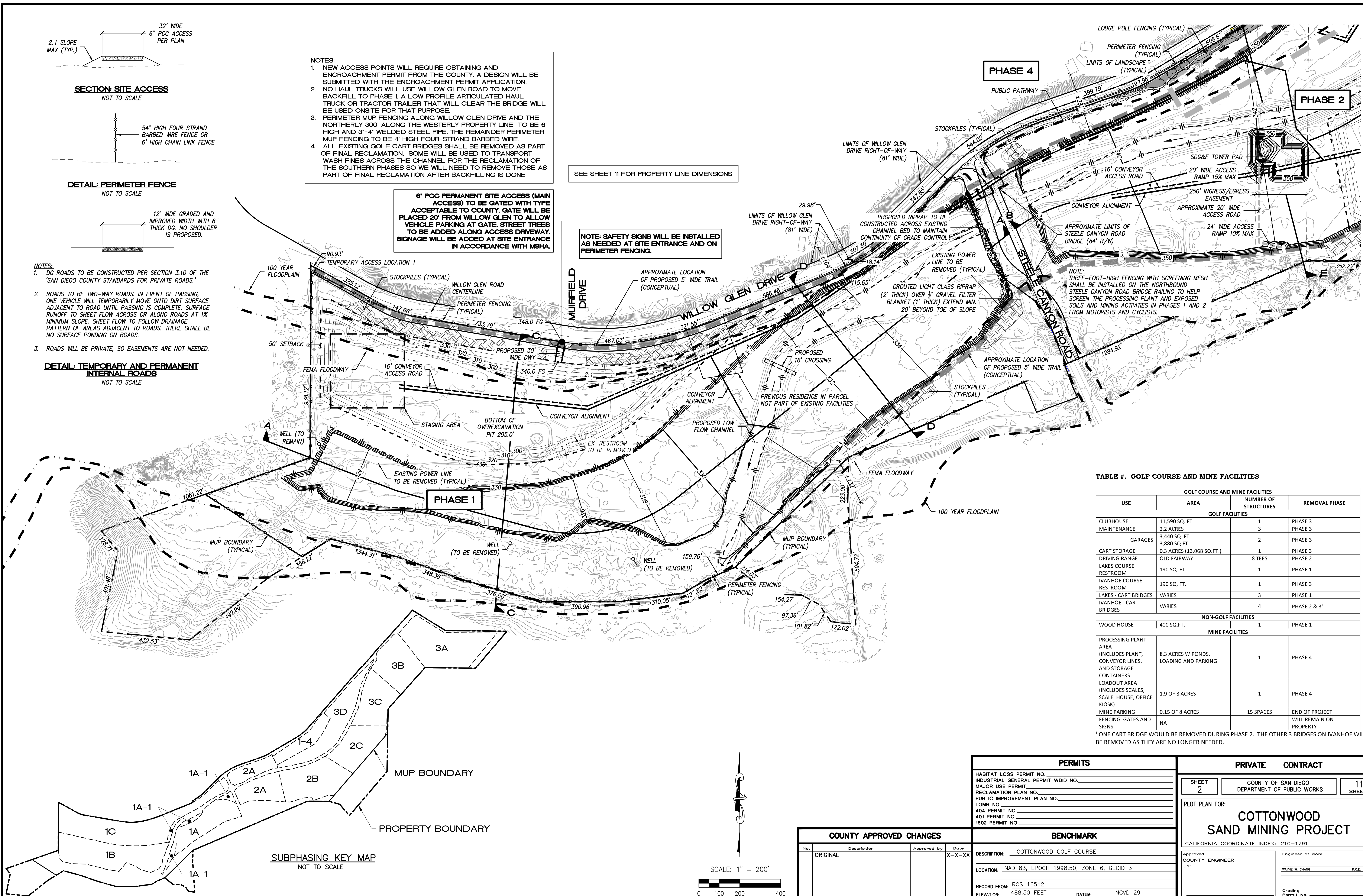
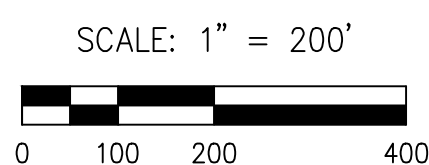


TABLE #. GOLF COURSE AND MINE FACILITIES

GOLF COURSE AND MINE FACILITIES			
USE	AREA	NUMBER OF STRUCTURES	REMOVAL PHASE
GOLF FACILITIES			
CLUBHOUSE	11,590 SQ. FT.	1	PHASE 3
MAINTENANCE	2.2 ACRES	3	PHASE 3
GARAGES	3,440 SQ. FT. 3,880 SQ. FT.	2	PHASE 3
CART STORAGE	0.3 ACRES (13,068 SQ. FT.)	1	PHASE 3
DRIVING RANGE	OLD FAIRWAY	8 TEES	PHASE 2
LAKES COURSE RESTROOM	190 SQ. FT.	1	PHASE 1
IVANHOE COURSE RESTROOM	190 SQ. FT.	1	PHASE 3
LAKES - CART BRIDGES	VARIES	3	PHASE 1
IVANHOE - CART BRIDGES	VARIES	4	PHASE 2 & 3 ¹
NON-GOLF FACILITIES			
WOOD HOUSE	400 SQ. FT.	1	PHASE 1
MINE FACILITIES			
PROCESSING PLANT AREA (INCLUDES PLANT, CONVEYOR LINES, AND STORAGE CONTAINERS)	8.3 ACRES W PONDS, LOADING AND PARKING	1	PHASE 4
LOADOUT AREA (INCLUDES SCALES, SCALE HOUSE, OFFICE KIOSK)	1.9 OF 8 ACRES	1	PHASE 4
MINE PARKING	0.15 OF 8 ACRES	15 SPACES	END OF PROJECT
FENCING, GATES AND SIGNS	NA		WILL REMAIN ON PROPERTY

¹ ONE CART BRIDGE WOULD BE REMOVED DURING PHASE 2. THE OTHER 3 BRIDGES ON IVANHOE WILL BE REMOVED AS THEY ARE NO LONGER NEEDED.

SUBPHASING KEY MAP
NOT TO SCALE



PERMITS	
HABITAT LOSS PERMIT NO.	
INDUSTRIAL GENERAL PERMIT WDDID NO.	
MAJOR USE PERMIT	
RECLAMATION PLAN NO.	
PUBLIC IMPROVEMENT PLAN NO.	
LOMR NO.	
404 PERMIT NO.	
401 PERMIT NO.	
1602 PERMIT NO.	

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

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 DATUM: NGVD 29			

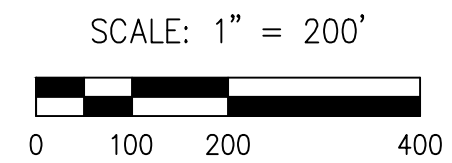
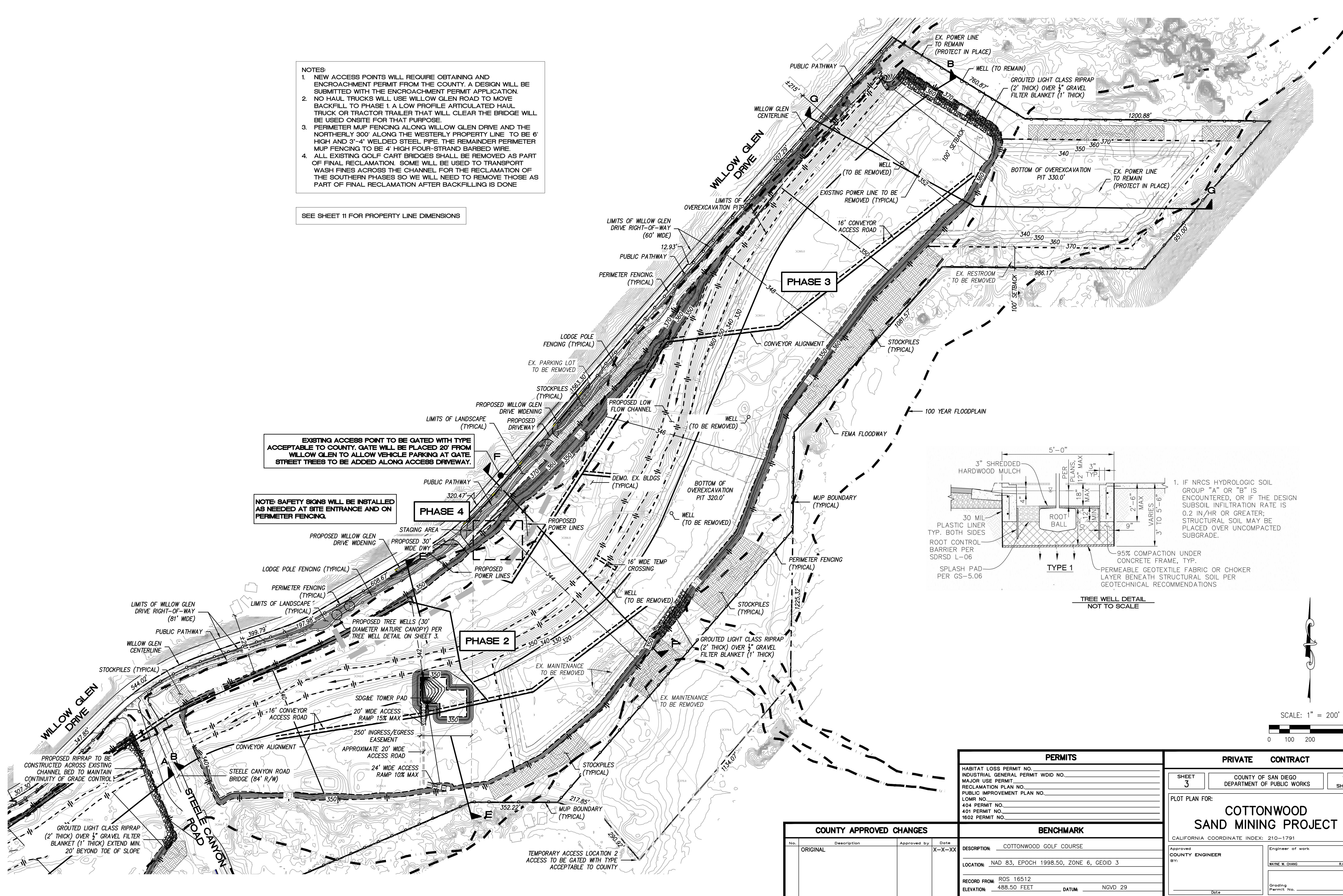
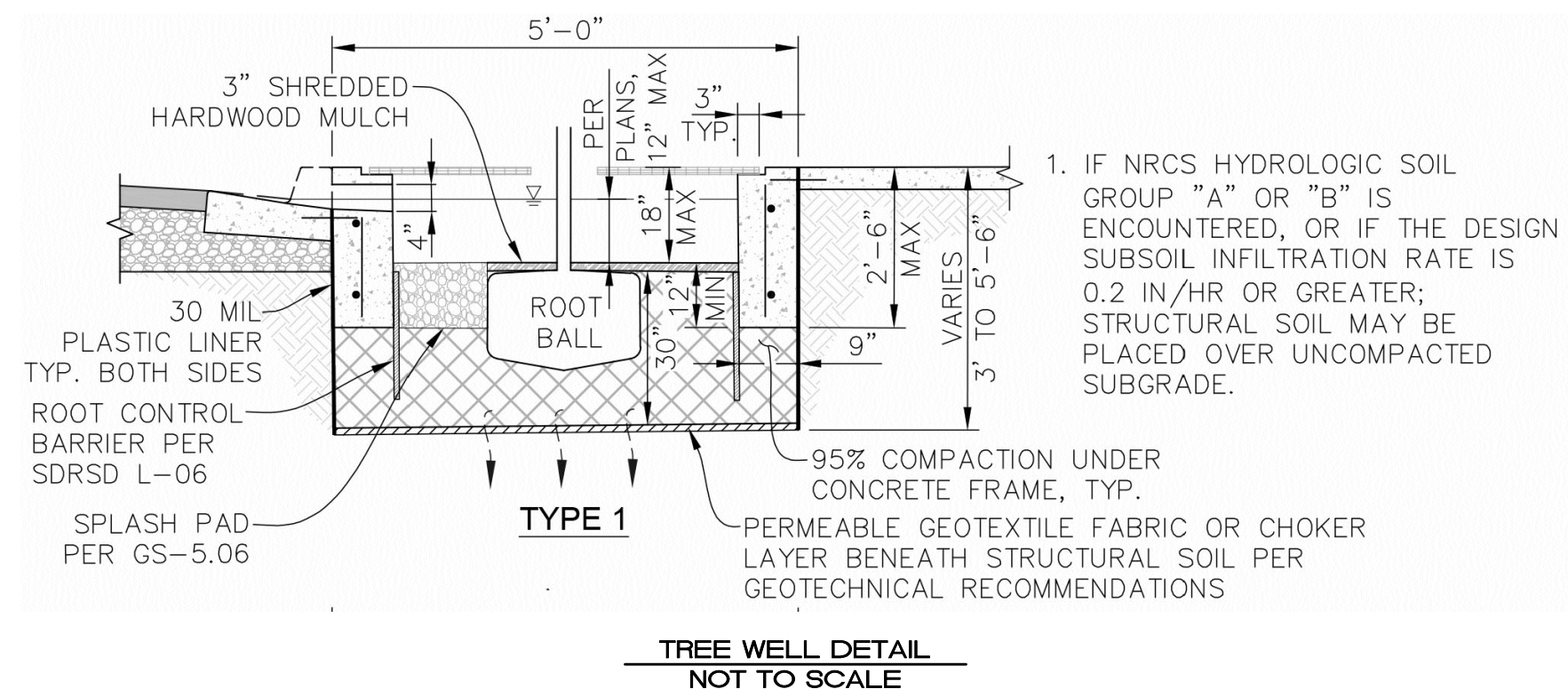
COTTONWOOD SAND MINING PROJECT	
CALIFORNIA COORDINATE INDEX: 210-1791	
Approved COUNTY ENGINEER BY: WAYNE W. CHANG	Engineer of work: WAYNE W. CHANG R.C.E. 46548
Date	Grading Permit No.

- NOTES:
1. NEW ACCESS POINTS WILL REQUIRE OBTAINING AND ENCROACHMENT PERMIT FROM THE COUNTY. A DESIGN WILL BE SUBMITTED WITH THE ENCROACHMENT PERMIT APPLICATION.
 2. NO HAUL TRUCKS WILL USE WILLOW GLEN ROAD TO MOVE BACKFILL TO PHASE 1. A LOW PROFILE ARTICULATED HAUL TRUCK OR TRACTOR TRAILER THAT WILL CLEAR THE BRIDGE WILL BE USED ONSITE FOR THAT PURPOSE.
 3. PERIMETER MUP FENCING ALONG WILLOW GLEN DRIVE AND THE NORTHERLY 300' ALONG THE WESTERLY PROPERTY LINE TO BE 6' HIGH AND 3"-4" WELDED STEEL PIPE. THE REMAINDER PERIMETER MUP FENCING TO BE 4' HIGH FOUR-STRAND BARBED WIRE.
 4. ALL EXISTING GOLF CART BRIDGES SHALL BE REMOVED AS PART OF FINAL RECLAMATION. SOME WILL BE USED TO TRANSPORT WASH FINES ACROSS THE CHANNEL FOR THE RECLAMATION OF THE SOUTHERN PHASES SO WE WILL NEED TO REMOVE THOSE AS PART OF FINAL RECLAMATION AFTER BACKFILLING IS DONE

SEE SHEET 11 FOR PROPERTY LINE DIMENSIONS

EXISTING ACCESS POINT TO BE GATED WITH TYPE ACCEPTABLE TO COUNTY. GATE WILL BE PLACED 20' FROM WILLOW GLEN TO ALLOW VEHICLE PARKING AT GATE. STREET TREES TO BE ADDED ALONG ACCESS DRIVEWAY.

NOTE: SAFETY SIGNS WILL BE INSTALLED AS NEEDED AT SITE ENTRANCE AND ON PERIMETER FENCING.



PERMITS	
HABITAT LOSS PERMIT NO.	
INDUSTRIAL GENERAL PERMIT WDDID NO.	
MAJOR USE PERMIT RECLAMATION PLAN NO.	
PUBLIC IMPROVEMENT PLAN NO.	
LOMR NO.	
404 PERMIT NO.	
401 PERMIT NO.	
1602 PERMIT NO.	

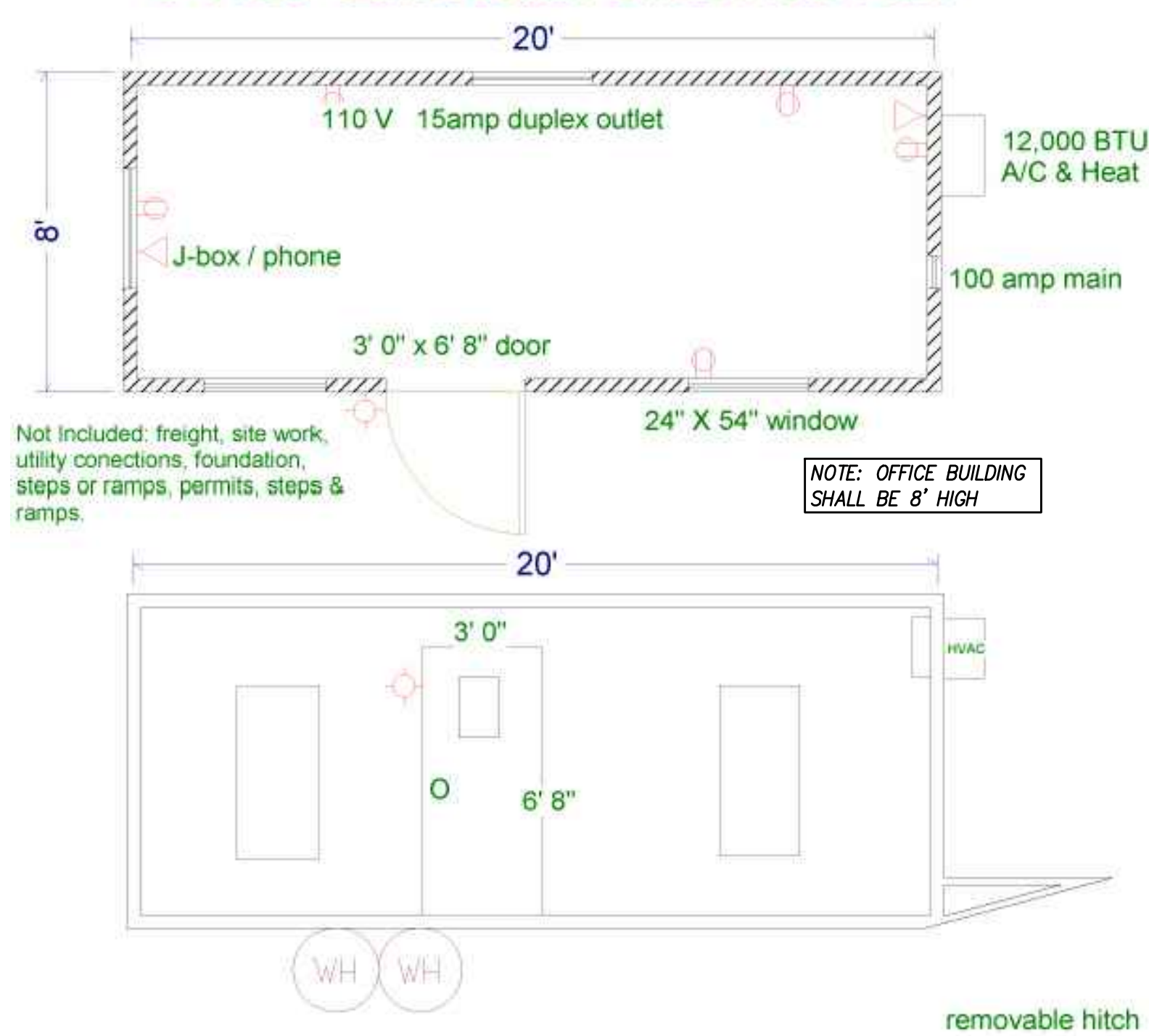
PRIVATE	CONTRACT
SHEET 3	11 SHEETS
COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	

PLOT PLAN FOR:
COTTONWOOD SAND MINING PROJECT
 CALIFORNIA COORDINATE INDEX: 210-1791
 Approved COUNTY ENGINEER BY: WAYNE W. CHANG R.C.E. 46248
 Engineer of work: WAYNE W. CHANG R.C.E. 46248
 Grading Permit No. _____

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

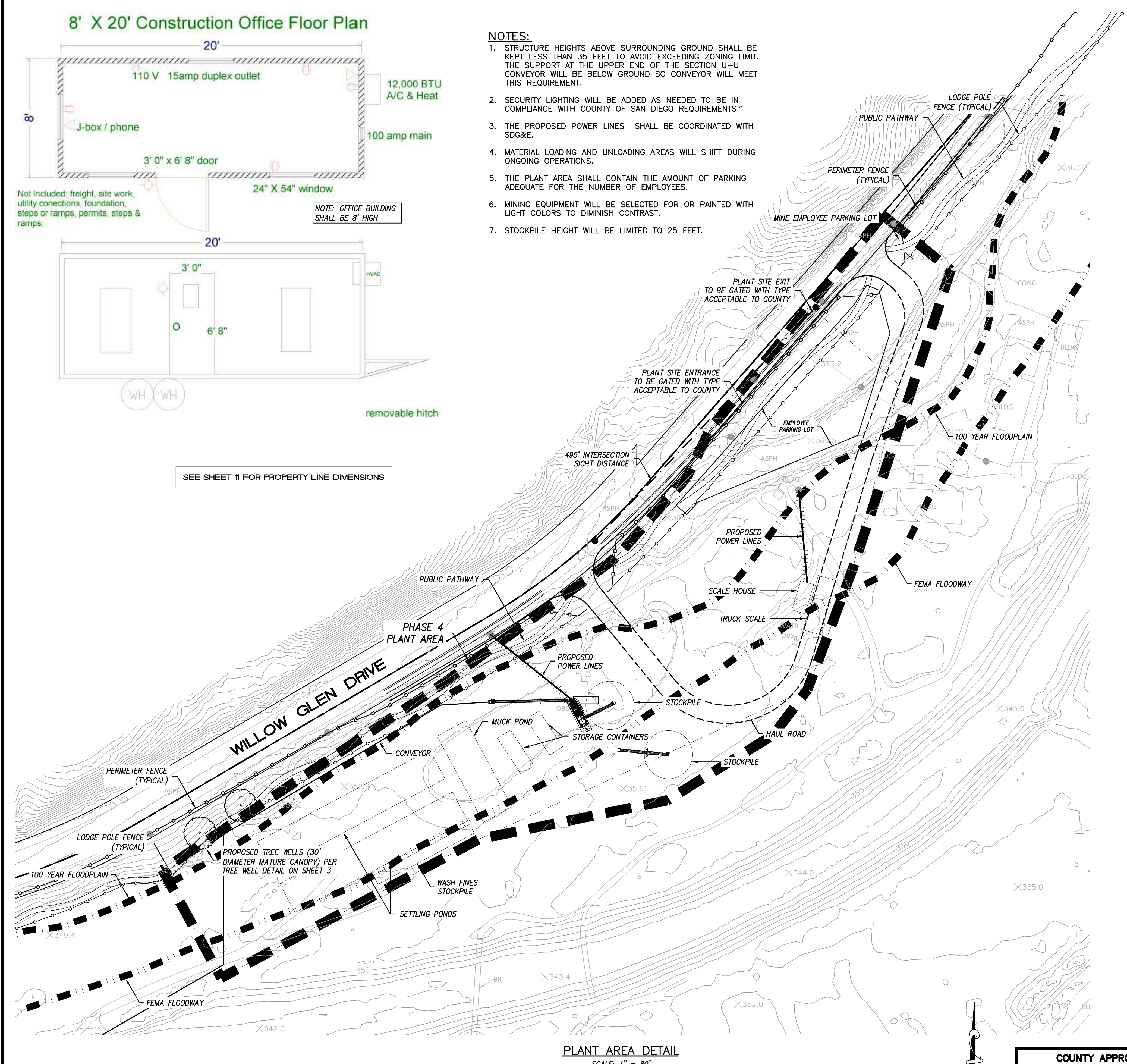
BENCHMARK	
DESCRIPTION:	COTTONWOOD GOLF COURSE
LOCATION:	NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3
RECORD FROM:	ROS 16512
ELEVATION:	488.50 FEET
DATUM:	NGVD 29

8' X 20' Construction Office Floor Plan

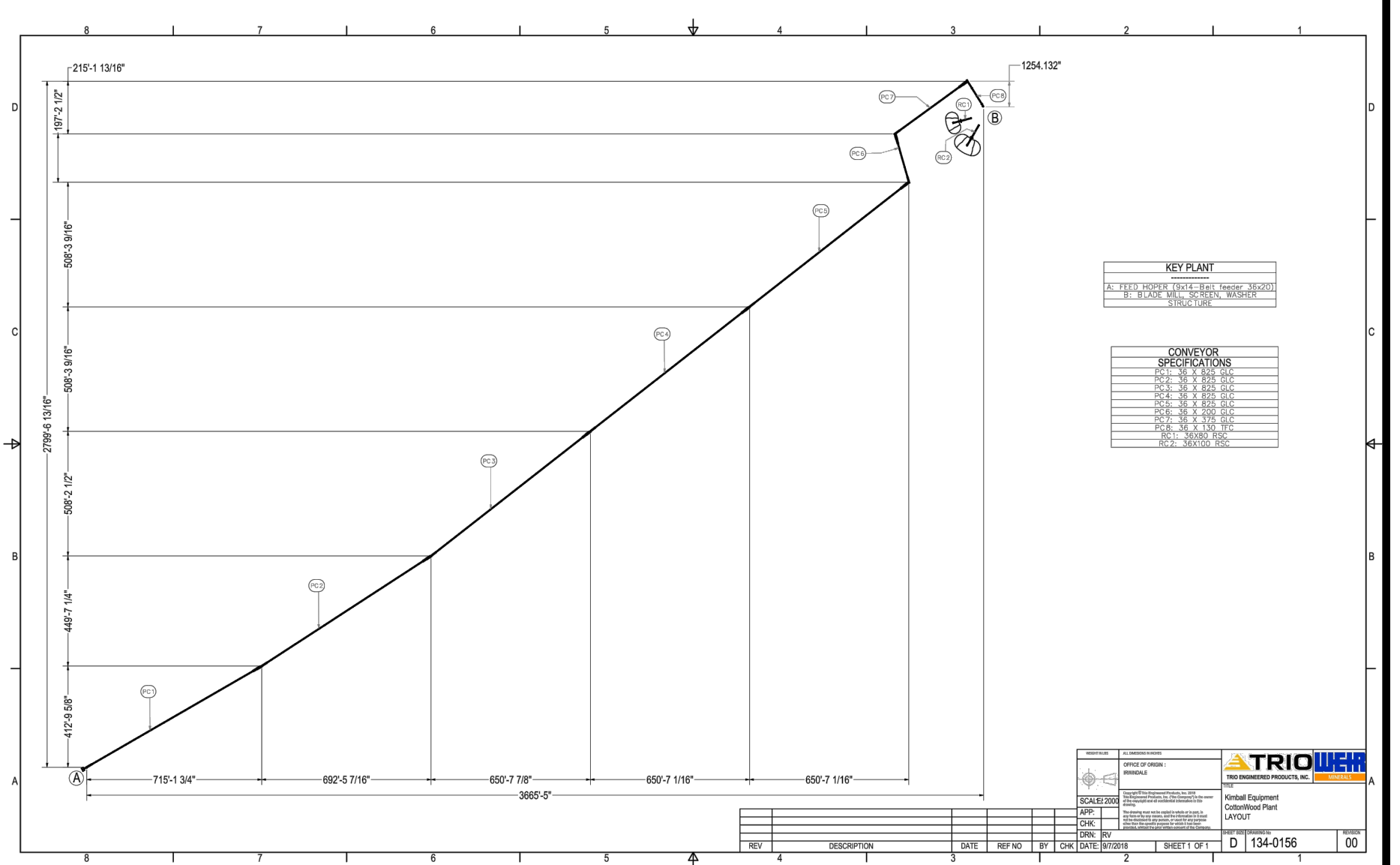
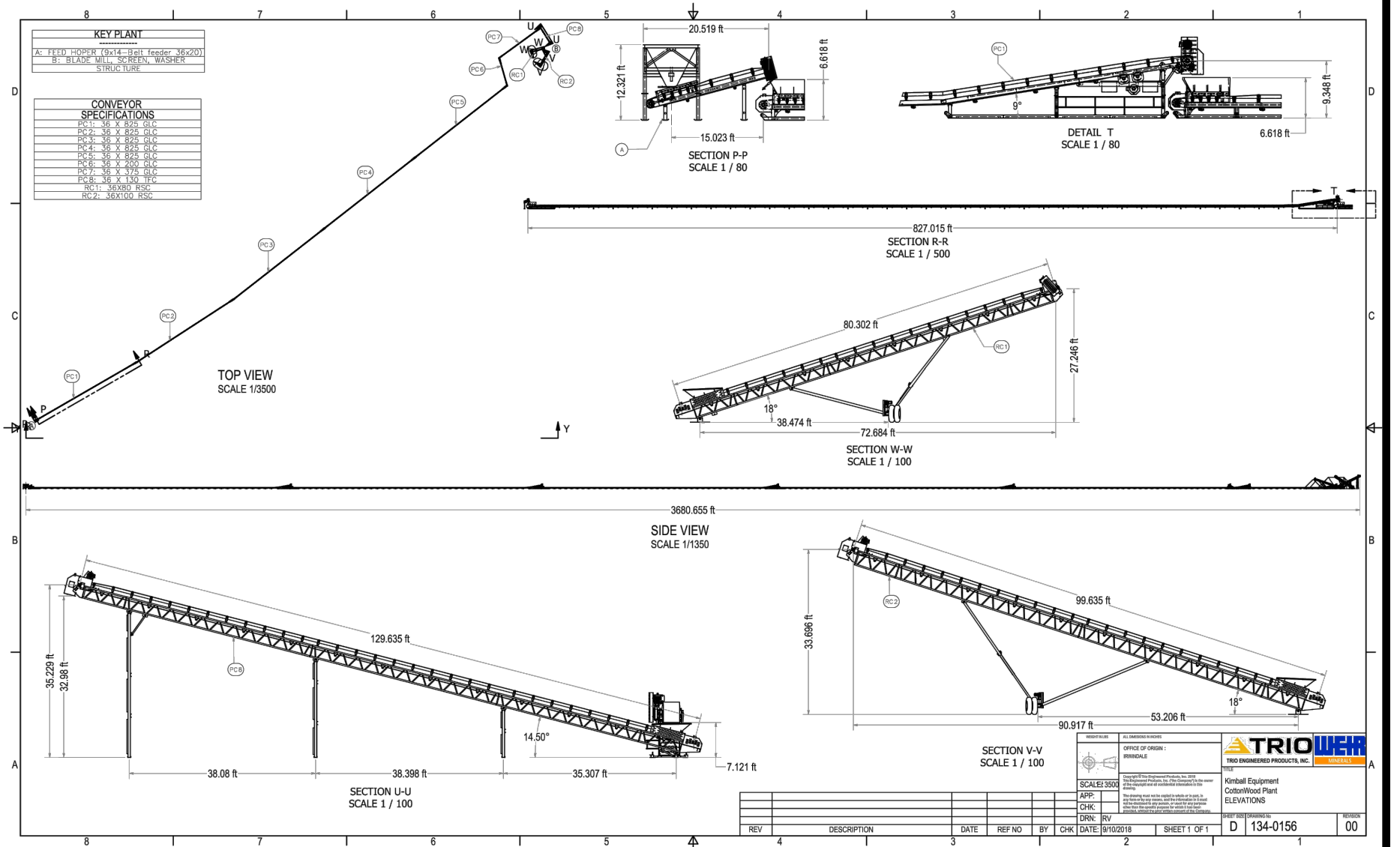
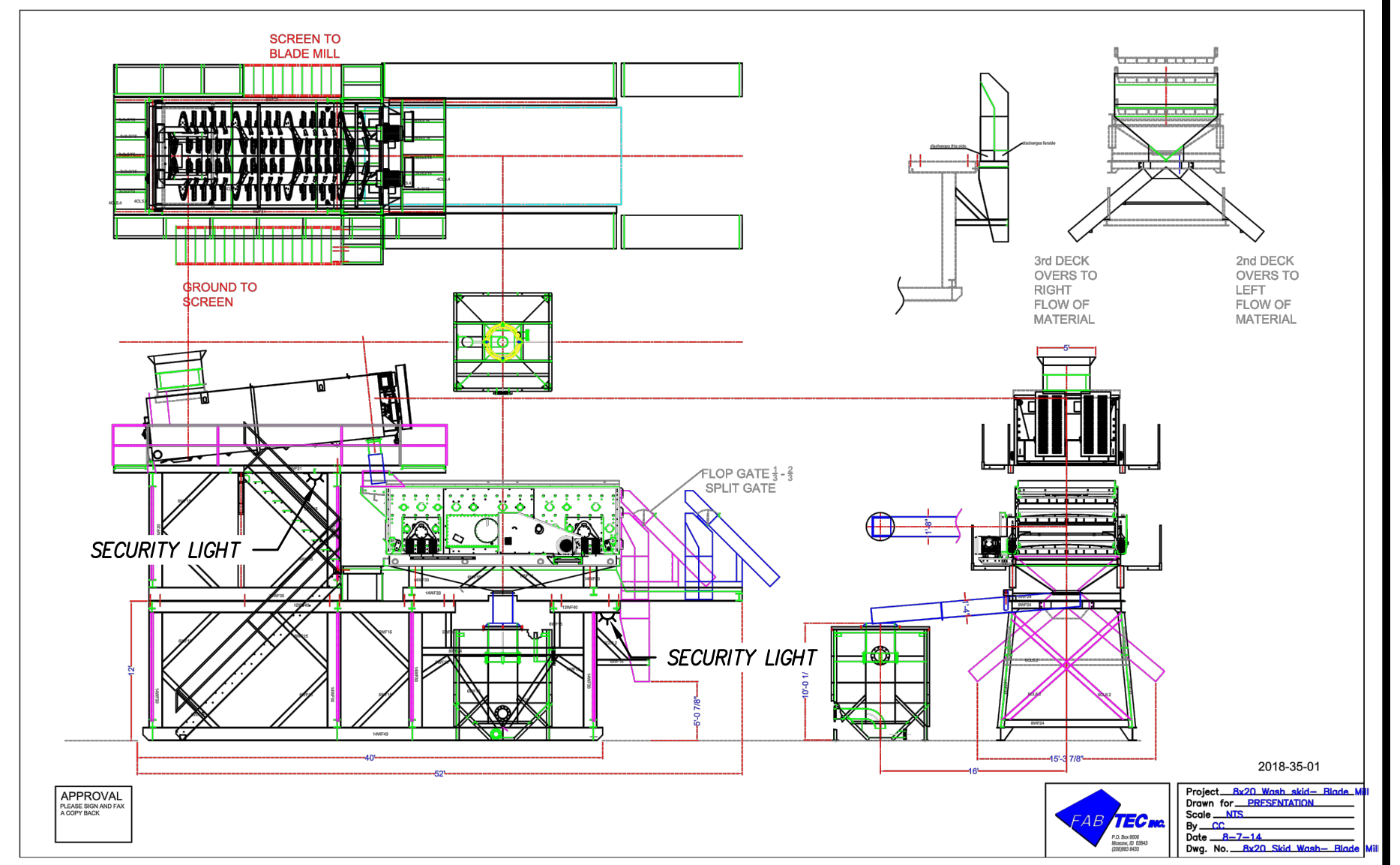
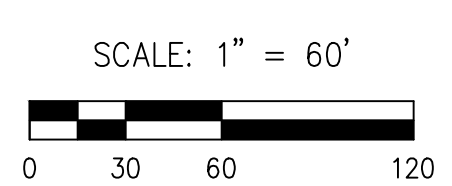


- NOTES:**
1. STRUCTURE HEIGHTS ABOVE SURROUNDING GROUND SHALL BE KEPT LESS THAN 35 FEET TO AVOID EXCEEDING ZONING LIMIT. THE SUPPORT AT THE UPPER END OF THE SECTION U-U CONVEYOR WILL BE BELOW GROUND SO CONVEYOR WILL MEET THIS REQUIREMENT.
 2. SECURITY LIGHTING WILL BE ADDED AS NEEDED TO BE IN COMPLIANCE WITH COUNTY OF SAN DIEGO REQUIREMENTS."
 3. THE PROPOSED POWER LINES SHALL BE COORDINATED WITH SDG&E.
 4. MATERIAL LOADING AND UNLOADING AREAS WILL SHIFT DURING ONGOING OPERATIONS.
 5. THE PLANT AREA SHALL CONTAIN THE AMOUNT OF PARKING ADEQUATE FOR THE NUMBER OF EMPLOYEES.
 6. MINING EQUIPMENT WILL BE SELECTED FOR OR PAINTED WITH LIGHT COLORS TO DIMINISH CONTRAST.
 7. STOCKPILE HEIGHT WILL BE LIMITED TO 25 FEET.

SEE SHEET 11 FOR PROPERTY LINE DIMENSIONS



PLANT AREA DETAIL
SCALE: 1" = 80'



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

PERMITS		PRIVATE CONTRACT	
HABITAT LOSS PERMIT NO.		SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
INDUSTRIAL GENERAL PERMIT WDDID NO.		11 SHEETS	
MAJOR USE PERMIT		PLOT PLAN FOR: COTTONWOOD SAND MINING PROJECT	
RECLAMATION PLAN NO.		CALIFORNIA COORDINATE INDEX: 210-1791	
PUBLIC IMPROVEMENT PLAN NO.		Approved COUNTY ENGINEER BY: WAYNE W. CHANG	Engineer of work: WAYNE W. CHANG (S.C.E. 45548)
LOMR NO.			Grading Permit No.
404 PERMIT NO.			
401 PERMIT NO.			
1602 PERMIT NO.			

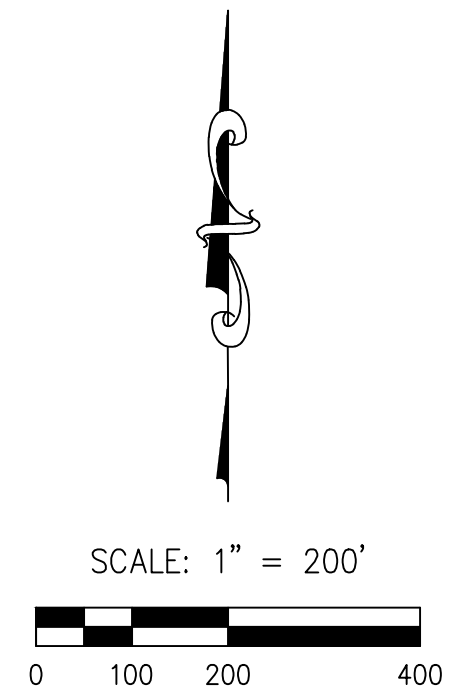
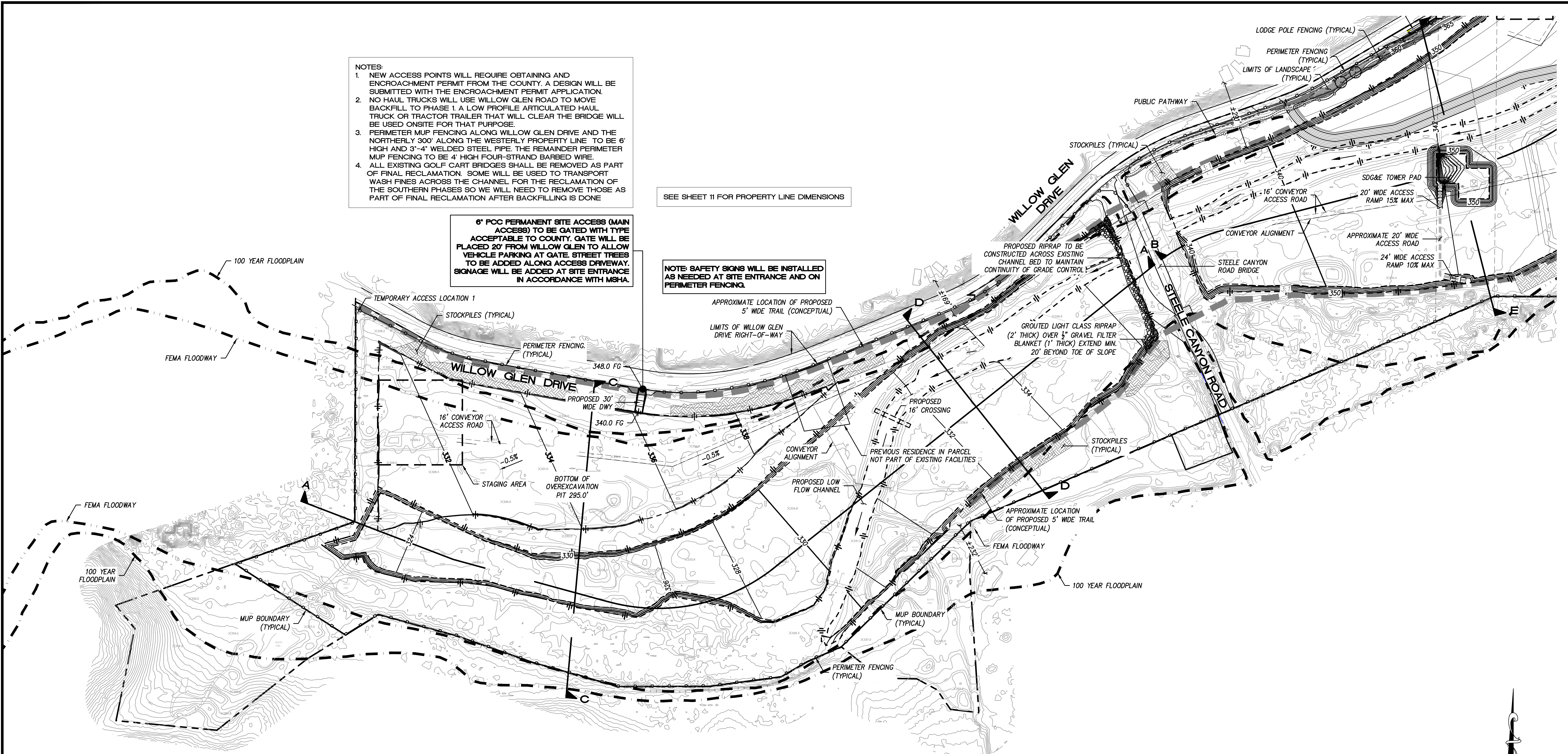
FOR REVIEW ONLY
ENGINEER'S NAME: CHANG CONSULTANTS
PHONE NO. (858) 692-0760

- NOTES:**
1. NEW ACCESS POINTS WILL REQUIRE OBTAINING AND ENCROACHMENT PERMIT FROM THE COUNTY. A DESIGN WILL BE SUBMITTED WITH THE ENCROACHMENT PERMIT APPLICATION.
 2. NO HAUL TRUCKS WILL USE WILLOW GLEN ROAD TO MOVE BACKFILL TO PHASE 1. A LOW PROFILE ARTICULATED HAUL TRUCK OR TRACTOR TRAILER THAT WILL CLEAR THE BRIDGE WILL BE USED ONSITE FOR THAT PURPOSE.
 3. PERIMETER MUP FENCING ALONG WILLOW GLEN DRIVE AND THE NORTHERLY 300' ALONG THE WESTERLY PROPERTY LINE TO BE 6' HIGH AND 3'-4" WELDED STEEL PIPE. THE REMAINDER PERIMETER MUP FENCING TO BE 4' HIGH FOUR-STRAND BARBED WIRE.
 4. ALL EXISTING GOLF CART BRIDGES SHALL BE REMOVED AS PART OF FINAL RECLAMATION. SOME WILL BE USED TO TRANSPORT WASH FINES ACROSS THE CHANNEL FOR THE RECLAMATION OF THE SOUTHERN PHASES SO WE WILL NEED TO REMOVE THOSE AS PART OF FINAL RECLAMATION AFTER BACKFILLING IS DONE

SEE SHEET 11 FOR PROPERTY LINE DIMENSIONS

6" PCC PERMANENT SITE ACCESS (MAIN ACCESS) TO BE GATED WITH TYPE ACCEPTABLE TO COUNTY. GATE WILL BE PLACED 20' FROM WILLOW GLEN TO ALLOW VEHICLE PARKING AT GATE. STREET TREES TO BE ADDED ALONG ACCESS DRIVEWAY. SIGNAGE WILL BE ADDED AT SITE ENTRANCE IN ACCORDANCE WITH MSHA.

NOTE: SAFETY SIGNS WILL BE INSTALLED AS NEEDED AT SITE ENTRANCE AND ON PERIMETER FENCING.



PERMITS	
HABITAT LOSS PERMIT NO.	
INDUSTRIAL GENERAL PERMIT WVID NO.	
MAJOR USE PERMIT	
RECLAMATION PLAN NO.	
PUBLIC IMPROVEMENT PLAN NO.	
LOMR NO.	
404 PERMIT NO.	
401 PERMIT NO.	
1602 PERMIT NO.	

PRIVATE	CONTRACT
SHEET 5	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
	11 SHEETS

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

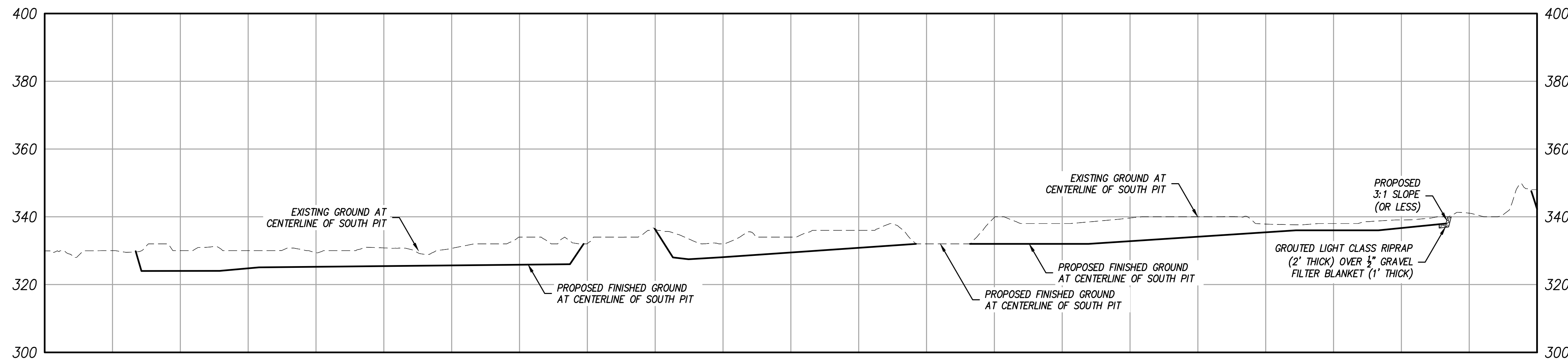
Approved COUNTY ENGINEER BY: WAYNE W. CHANG R.C.E. 46248
Engineer of work: WAYNE W. CHANG R.C.E. 46248
Grading Permit No. _____

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

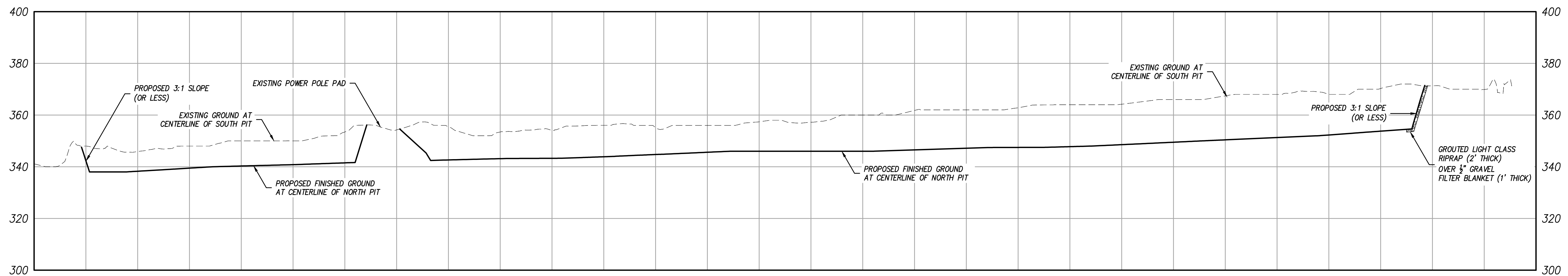
BENCHMARK	
DESCRIPTION:	COTTONWOOD GOLF COURSE
LOCATION:	NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3
RECORD FROM:	ROS 16512
ELEVATION:	488.50 FEET
DATUM:	NGVD 29

FOR REVIEW ONLY

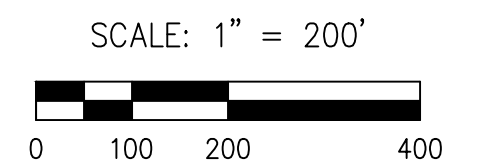
ENGINEER'S NAME: CHANG CONSULTANTS
PHONE NO. (858) 692-0760



SECTION A-A
SCALE HORIZ: 1" = 200' VERT: 1"=20'



SECTION B-B
SCALE HORIZ: 1" = 200' VERT: 1"=20'



PERMITS	
HABITAT LOSS PERMIT NO.	
INDUSTRIAL GENERAL PERMIT W/D NO.	
MAJOR USE PERMIT	
RECLAMATION PLAN NO.	
PUBLIC IMPROVEMENT PLAN NO.	
LOMR NO.	
404 PERMIT NO.	
401 PERMIT NO.	
1602 PERMIT NO.	

PRIVATE	CONTRACT
SHEET 7	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 11 SHEETS

SITE CROSS-SECTIONS FOR:	
COTTONWOOD SAND MINING PROJECT	
CALIFORNIA COORDINATE INDEX: 210-1791	
Approved COUNTY ENGINEER BY: WAYNE W. CHANG R.C.E. 46248	Engineer of work: WAYNE W. CHANG R.C.E. 46248
Date	Grading Permit No.

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

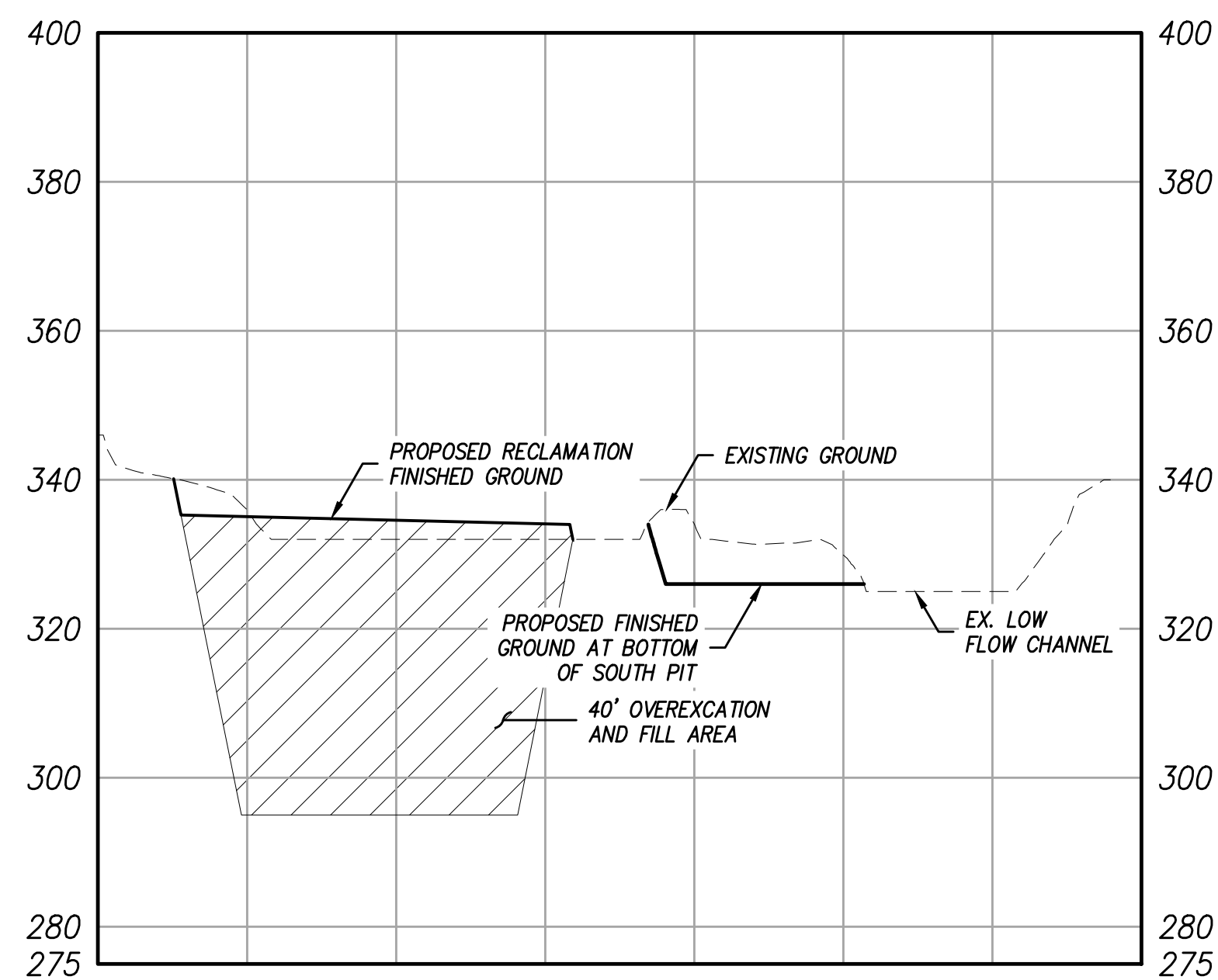
BENCHMARK	
DESCRIPTION:	COTTONWOOD GOLF COURSE
LOCATION:	NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3
RECORD FROM:	ROS 16512
ELEVATION:	488.50 FEET DATUM: NGVD 29

FILE NO.

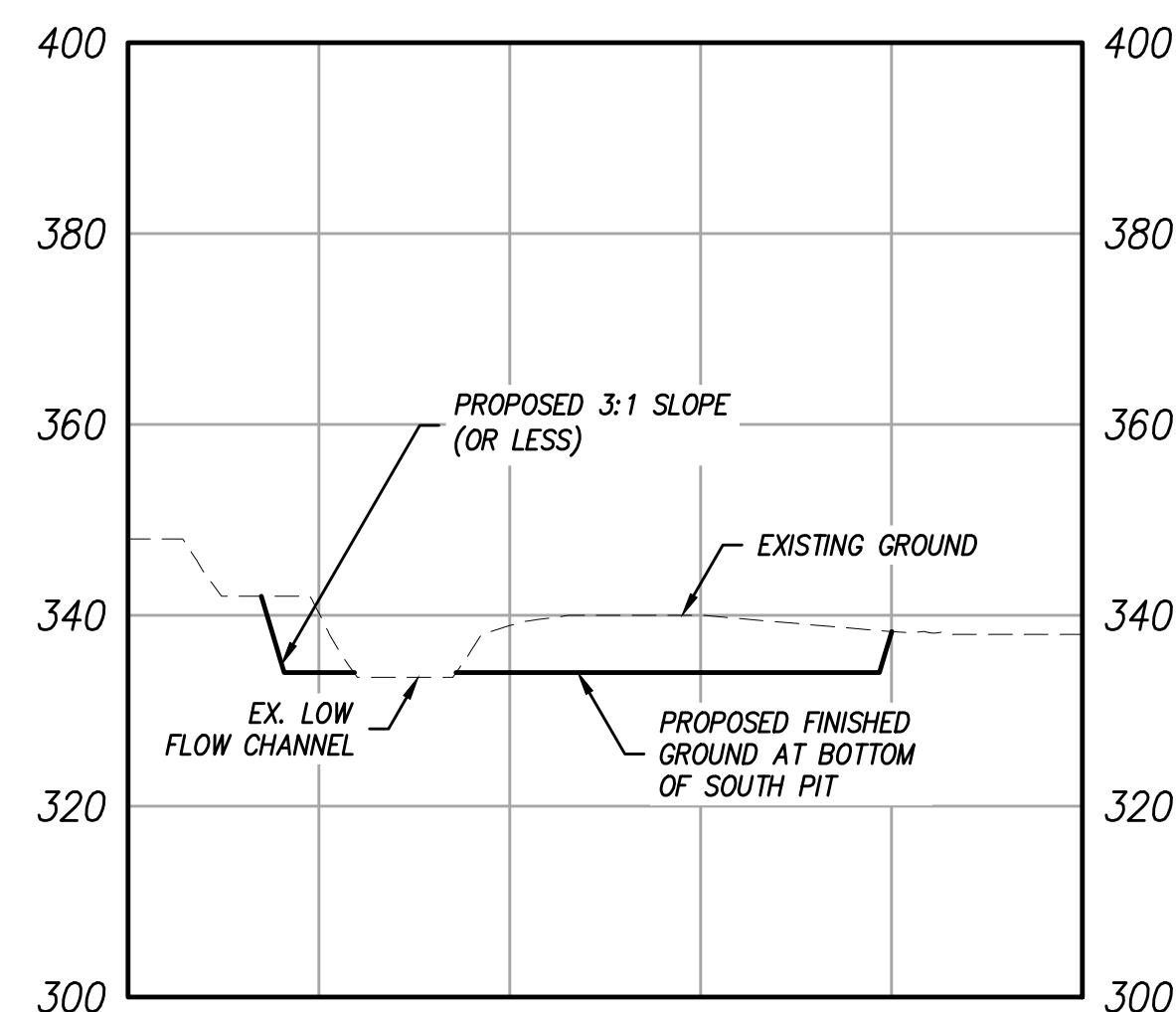
12/5/2021 10:41 PM

FOR REVIEW ONLY

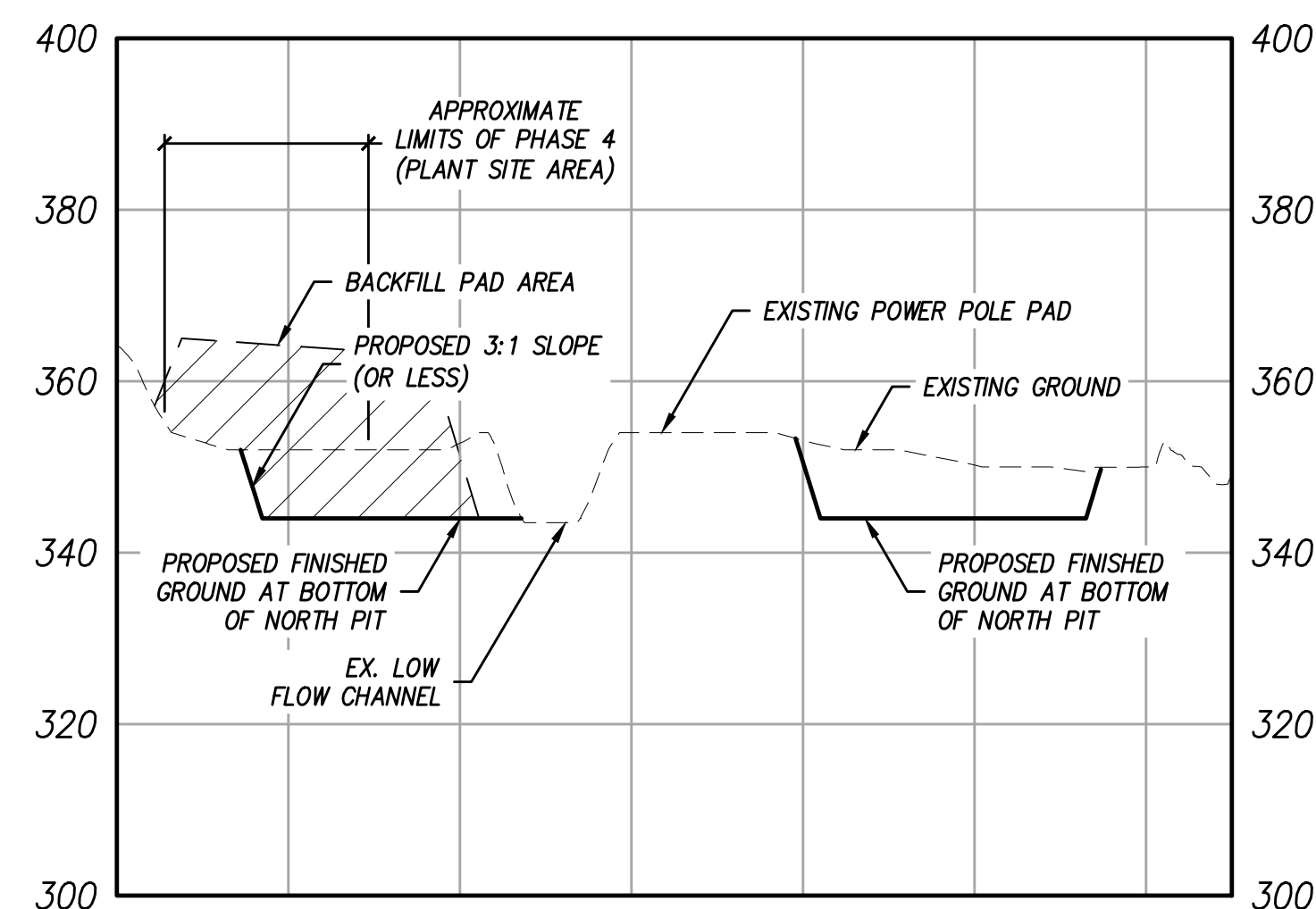
ENGINEER'S NAME: CHANG CONSULTANTS
PHONE NO. (858) 692-0760



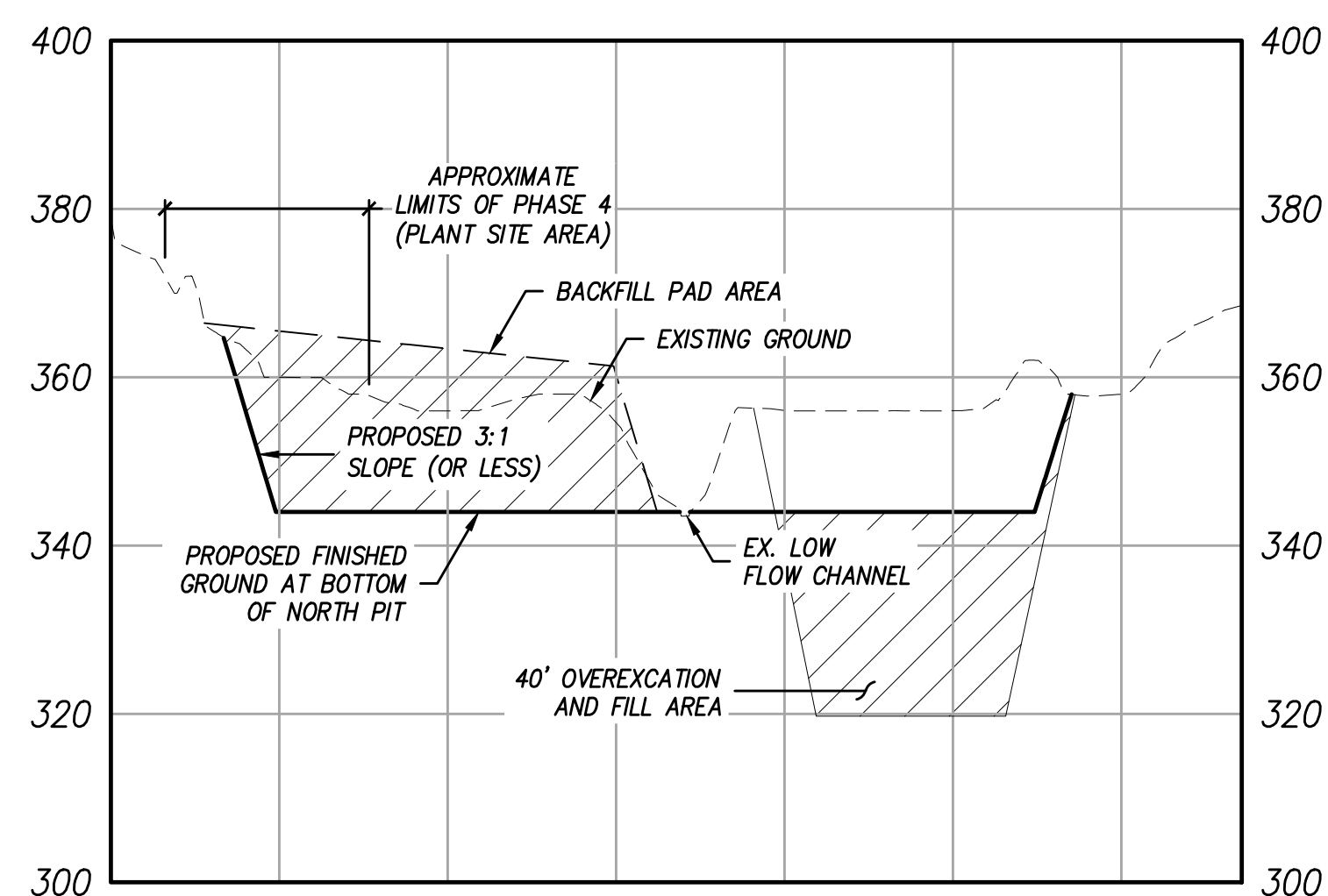
SECTION C-C
SCALE HORIZ: 1" = 200' VERT: 1"=20'



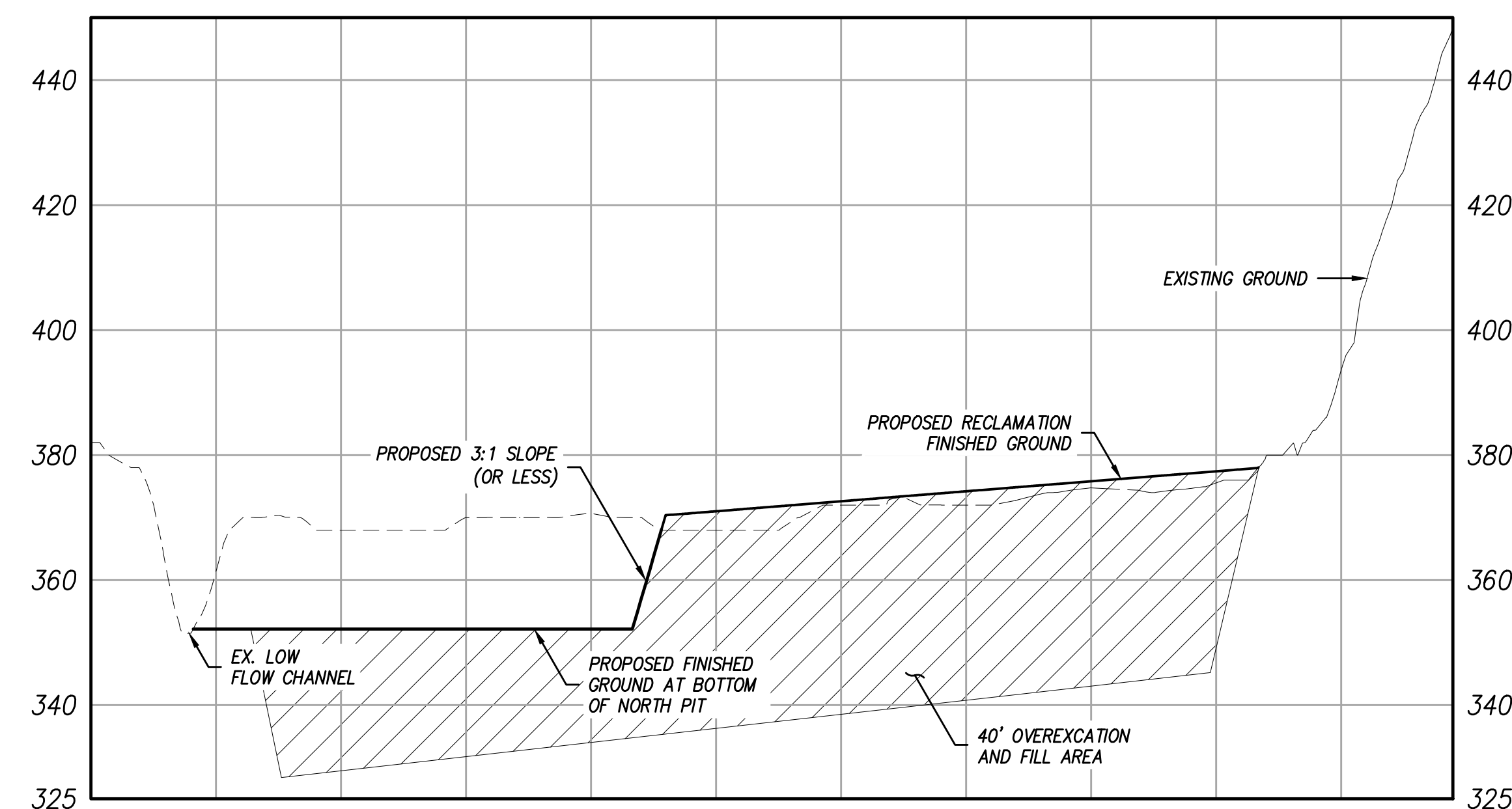
SECTION D-D
SCALE HORIZ: 1" = 200' VERT: 1"=20'



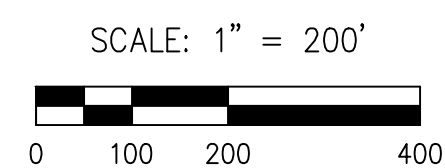
SECTION E-E
SCALE HORIZ: 1" = 200' VERT: 1"=20'



SECTION F-F
SCALE HORIZ: 1" = 200' VERT: 1"=20'



SECTION G-G
SCALE HORIZ: 1" = 200' VERT: 1"=20'



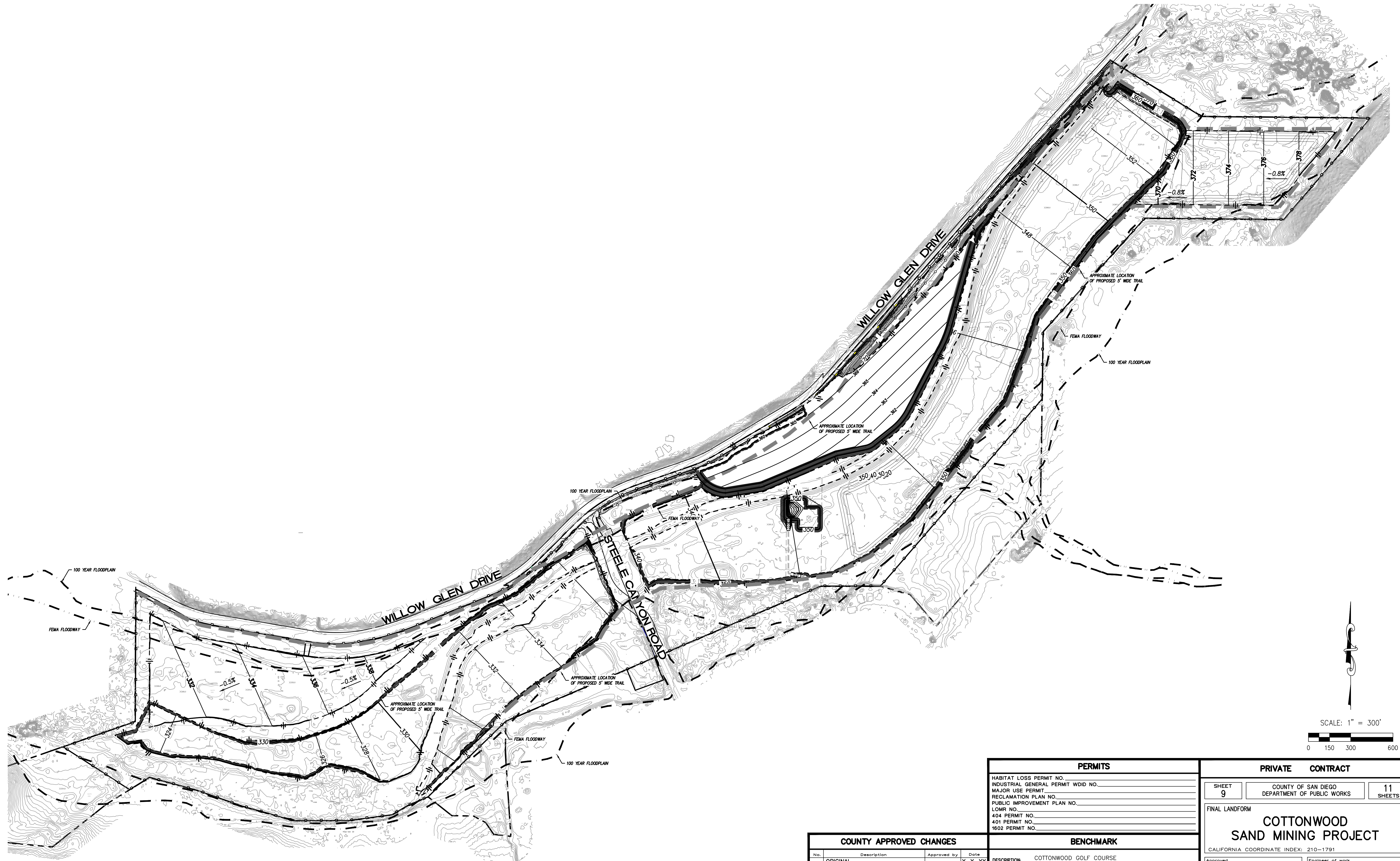
PERMITS	
HABITAT LOSS PERMIT NO.	
INDUSTRIAL GENERAL PERMIT W/DID NO.	
MAJOR USE PERMIT	
RECLAMATION PLAN NO.	
PUBLIC IMPROVEMENT PLAN NO.	
LOMR NO.	
404 PERMIT NO.	
401 PERMIT NO.	
1602 PERMIT NO.	

PRIVATE CONTRACT	
SHEET 8	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
11 SHEETS	

SITE CROSS-SECTIONS FOR:	
COTTONWOOD SAND MINING PROJECT	
CALIFORNIA COORDINATE INDEX: 210-1791	
Approved COUNTY ENGINEER BY:	Engineer of work WAYNE W. CHANG R.C.E. 46248
Date	Grading Permit No.

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



PERMITS	
HABITAT LOSS PERMIT NO.	
INDUSTRIAL GENERAL PERMIT WVID NO.	
MAJOR USE PERMIT	
RECLAMATION PLAN NO.	
PUBLIC IMPROVEMENT PLAN NO.	
LOMR NO.	
404 PERMIT NO.	
401 PERMIT NO.	
1602 PERMIT NO.	

PRIVATE CONTRACT	
SHEET 9	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
11 SHEETS	
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. 46248
Date	Grading Permit No.

RIPARIAN SCRUB/FOREST REHABILITATION PLANT PALETTE¹
(6.13 acres)

CONTAINER STOCK ¹				
Scientific Name	Common Name	Spacing on Center (feet)	Grouping Size	Number Per Acre
<i>Baccharis salicifolia</i>	mule fat	6	10	230
<i>Distichlis spicata</i>	saltgrass	10	3	50
<i>Platanus racemosa</i>	western sycamore	15	2	25
<i>Populus fremontii</i> ssp. <i>fremontii</i>	western cottonwood	15	2	25
<i>Salix exigua</i>	sand bar willow	8	4	90
<i>Salix gooddingii</i>	black willow	12	5	120
<i>Salix laevigata</i>	red willow	12	5	120
<i>Salix lasiolepis</i>	arroyo willow	12	5	120
<i>Sambucus nigra</i>	blue elderberry	10	3	85
TOTAL				865

SEED MIXTURE ²			
Scientific Name	Common Name	% Purity / Germination	Pounds per Acre
<i>Ambrosia psilostachya</i>	western ragweed	45/45	4
<i>Anemopsis californica</i>	yerba mansa	55/80	1
<i>Artemisia douglasiana</i>	Douglas' sagewort	15/40	3
<i>Artemisia palmeri</i>	Palmer's sagebrush	20/50	2
<i>Baccharis salicifolia</i>	mule fat	10/20	3
<i>Bolboschoenus maritimus</i>	bulrush	90/60	1
<i>Cyperus eragrostis</i>	tall flatsedge	80/75	1
<i>Distichlis spicata</i>	saltgrass	90/75	1
<i>Eleocharis macrostachya</i>	pale spike-rush	95/60	1
<i>Isocoma menziesii</i>	goldenbush	18/40	1
<i>Juncus acutus</i> ssp. <i>leopoldii</i>	southwestern spiny rush	95/80	0.5
<i>Juncus effusus</i> var. <i>pacificus</i>	Pacific rush	95/60	0.5
<i>Oenothera elata</i> ssp. <i>hookeri</i>	evening primrose	98/84	0.5
<i>Pluchea odorata</i>	salt marsh fleabane	30/40	2
TOTAL			21.5

RIPARIAN FOREST PLANT PALETTE¹
(15.51 acres)

CONTAINER STOCK ¹				
Scientific Name	Common Name	Spacing on Center (ft.)	Grouping Size	Number Per Acre
<i>Artemisia dracuncululus</i>	tarragon	5	5	100
<i>Baccharis salicifolia</i>	mule fat	6	10	230
<i>Distichlis spicata</i>	saltgrass	10	3	150
<i>Iva hayesiana</i>	San Diego marsh elder	5	5	120
<i>Platanus racemosa</i>	western sycamore	15	3	50
<i>Populus fremontii</i> ssp. <i>fremontii</i>	western cottonwood	15	3	50
<i>Salix exigua</i>	sand bar willow	8	5	120
<i>Salix gooddingii</i>	black willow	12	5	150
<i>Salix laevigata</i>	red willow	12	5	200
<i>Salix lasiolepis</i>	arroyo willow	12	5	200
<i>Sambucus nigra</i>	blue elderberry	10	3	50
Total				1,420

SEED MIXTURE ²			
Scientific Name	Common Name	%Purity/Germination	Pounds per Acre
<i>Ambrosia psilostachya</i>	western ragweed	45/45	4
<i>Ambrosia pumila</i>	San Diego ambrosia	-	0.5 ³
<i>Anemopsis californica</i>	yerba mansa	55/80	1
<i>Artemisia douglasiana</i>	Douglas' sagewort	15/40	3
<i>Artemisia palmeri</i>	Palmer's sagebrush	20/50	2
<i>Baccharis salicifolia</i>	mule fat	10/20	3
<i>Baccharis sarothroides</i>	broom baccharis	7/42	1
<i>Bolboschoenus maritimus</i>	alkali bulrush	90/60	1
<i>Croton californicus</i>	California croton	90/40	1
<i>Eleocharis macrostachys</i>	pale spike-rush	95/60	1
<i>Isocoma menziesii</i>	goldenbush	18/40	1
<i>Juncus acutus</i> ssp. <i>leopoldii</i>	southwestern spiny rush	95/80	1
<i>Juncus effusus</i> var. <i>pacificus</i>	Pacific rush	95/60	0.5
<i>Oenothera elata</i> ssp. <i>hookeri</i>	evening primrose	98/84	0.5
<i>Pluchea odorata</i>	salt marsh fleabane	30/40	2
Total			22.5*

RIPARIAN SCRUB PLANT PALETTE¹
(85.08 acres)

CONTAINER STOCK ¹				
Scientific Name	Common Name	Spacing on Center (ft.)	Grouping Size	Number Per Acre
<i>Artemisia dracuncululus</i>	tarragon	5	5	200
<i>Baccharis salicifolia</i>	mule fat	6	10	250
<i>Croton californicus</i>	California croton	5	5	200
<i>Distichlis spicata</i>	saltgrass	10	3	200
<i>Iva hayesiana</i>	San Diego marsh elder	5	5	200
<i>Platanus racemosa</i>	western sycamore	15	3	30
<i>Populus fremontii</i> ssp. <i>fremontii</i>	western cottonwood	15	3	30
<i>Salix exigua</i>	sand bar willow	8	5	200
<i>Salix gooddingii</i>	black willow	12	5	100
<i>Salix laevigata</i>	red willow	12	5	30
<i>Salix lasiolepis</i>	arroyo willow	12	5	30
<i>Sambucus nigra</i>	blue elderberry	10	3	100
Total				1,570

SEED MIXTURE ²			
Scientific Name	Common Name	%Purity/Germination	Pounds per Acre
<i>Ambrosia psilostachya</i>	western ragweed	45/45	4
<i>Artemisia douglasiana</i>	Douglas' sagewort	15/40	3
<i>Artemisia palmeri</i>	Palmer's sagebrush	20/50	2
<i>Baccharis salicifolia</i>	mule fat	10/20	3
<i>Baccharis sarothroides</i>	broom baccharis	7/42	1
<i>Bolboschoenus maritimus</i>	alkali bulrush	90/60	1
<i>Croton californicus</i>	California croton	90/40	1
<i>Eleocharis macrostachys</i>	pale spike-rush	95/60	1
<i>Isocoma menziesii</i>	goldenbush	18/40	1
<i>Juncus acutus</i> ssp. <i>leopoldii</i>	southwestern spiny rush	95/80	1
<i>Juncus effusus</i> var. <i>pacificus</i>	Pacific rush	95/60	0.5
<i>Oenothera elata</i> ssp. <i>hookeri</i>	evening primrose	98/84	0.5
<i>Pluchea odorata</i>	salt marsh fleabane	30/40	2
Total			21.0*

¹ Substitutions require approval of the Restoration Specialist.

¹ The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities.
² Substitutions require approval of the Restoration Specialist.
³ San Diego ambrosia (*Ambrosia pumila*) will only be installed within the 1.00 acre of wetland re-establishment area based on availability.
 * No less than 20 lbs. per acre of seed shall be installed.

¹ The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities.
² Substitutions require approval of the Restoration Specialist.
 * No less than 20 lbs. per acre of seed shall be installed.

STREAMBED (EMERGENT WETLAND) SEED MIX^{1,2}
(9.92 acres)

SEED MIXTURE ²			
Scientific Name	Common Name	%Purity/Germination	Pounds per Acre
<i>Anemopsis californica</i>	yerba mansa	55/80	1
<i>Artemisia douglasiana</i>	Douglas' sagewort	15/40	3
<i>Bolboschoenus maritimus</i>	alkali bulrush	90/60	1
<i>Cyperus eragrostis</i>	tall flatsedge	80/75	1
<i>Eleocharis macrostachys</i>	pale spike-rush	95/60	1
<i>Euthamia occidentalis</i>	western goldenrod	24/45	1
<i>Juncus effusus</i> var. <i>pacificus</i>	Pacific rush	95/60	0.5
<i>Pluchea odorata</i>	salt marsh fleabane	30/40	2
Total			10.5*

EROSION CONTROL SEED MIX^{1,2}
(96.06 acres)

Scientific Name	Common Name	Percent Purity/Germination	Pounds Per Acre
<i>Ambrosia psilostachya</i>	western ragweed	45/45	6
<i>Bromus carinatus</i>	California bromegrass	95/90	8
<i>Plantago insularis</i>	plantain	98/75	20
<i>Vulpia microstachys</i>	small fescue	90/80	20
TOTAL			54*

¹ The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities.
² Substitutions require approval of the Restoration Specialist.
 * No less than 50 lbs. per acre of seed shall be installed.

¹ The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities.
² Substitutions require approval of the Restoration Specialist.
 * No less than 10 lbs. per acre of seed shall be installed.

REVEGETATION AREAS

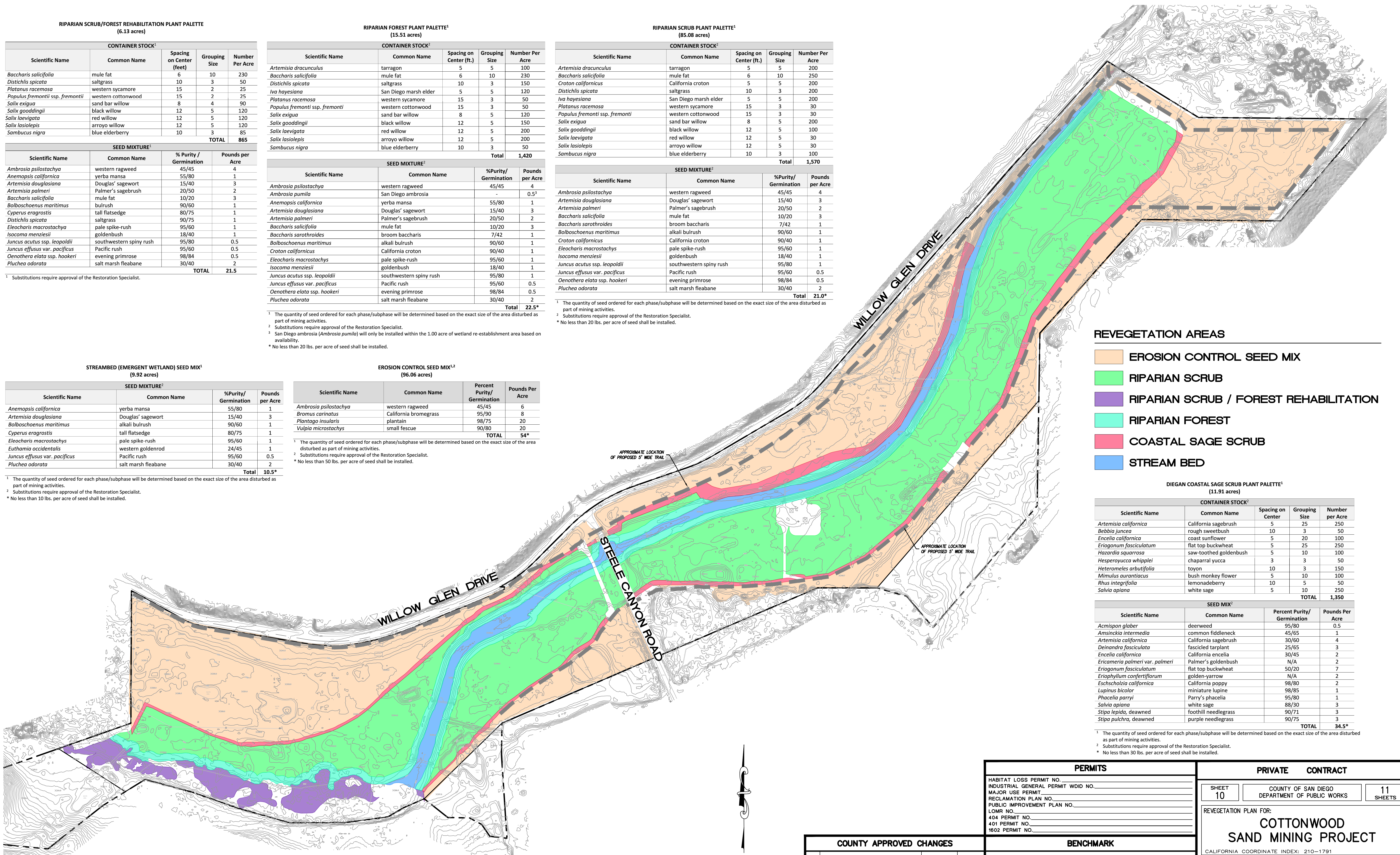
- EROSION CONTROL SEED MIX
- RIPARIAN SCRUB
- RIPARIAN SCRUB / FOREST REHABILITATION
- RIPARIAN FOREST
- COASTAL SAGE SCRUB
- STREAM BED

DIEGAN COASTAL SAGE SCRUB PLANT PALETTE¹
(11.91 acres)

CONTAINER STOCK ¹				
Scientific Name	Common Name	Spacing on Center	Grouping Size	Number per Acre
<i>Artemisia californica</i>	California sagebrush	5	25	250
<i>Bebbia juncea</i>	rough sweetbush	10	3	50
<i>Encelia californica</i>	coast sunflower	5	20	100
<i>Eriogonum fasciculatum</i>	flat top buckwheat	5	25	250
<i>Hazardia squarrosa</i>	saw-toothed goldenbush	5	10	100
<i>Hesperoyucca whipplei</i>	chapparal yucca	3	3	50
<i>Heteromeles arbutifolia</i>	toyon	10	3	150
<i>Mimulus aurantiacus</i>	bush monkey flower	5	10	100
<i>Rhus integrifolia</i>	lemonadeberry	10	5	50
<i>Salvia apiana</i>	white sage	5	10	250
TOTAL				1,350

SEED MIX ²			
Scientific Name	Common Name	Percent Purity/Germination	Pounds Per Acre
<i>Acmispon glaber</i>	deerweed	95/80	0.5
<i>Amsinckia intermedia</i>	common fiddleneck	45/65	1
<i>Artemisia californica</i>	California sagebrush	30/60	4
<i>Deinandra fasciculata</i>	fasciated tarplant	25/65	3
<i>Encelia californica</i>	California encelia	30/45	2
<i>Eriocameria palmeri</i> var. <i>palmeri</i>	Palmer's goldenbush	N/A	2
<i>Eriogonum fasciculatum</i>	flat top buckwheat	50/20	7
<i>Eriophyllum confertiflorum</i>	golden-yarrow	N/A	2
<i>Eschscholzia californica</i>	California poppy	98/80	2
<i>Lupinus bicolor</i>	miniature lupine	98/85	1
<i>Phacelia parryi</i>	Parry's phacelia	95/80	1
<i>Salvia apiana</i>	white sage	88/30	3
<i>Stipa lepida</i> , deawned	foothill needlegrass	90/71	3
<i>Stipa pulchra</i> , deawned	purple needlegrass	90/75	3
TOTAL			34.5*

¹ The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities.
² Substitutions require approval of the Restoration Specialist.
 * No less than 30 lbs. per acre of seed shall be installed.



SCALE: 1" = 300'
0 150 300 600

PERMITS		PRIVATE CONTRACT	
HABITAT LOSS PERMIT NO. _____ INDUSTRIAL GENERAL PERMIT W/ID NO. _____ MAJOR USE PERMIT _____ RECLAMATION PLAN NO. _____ PUBLIC IMPROVEMENT PLAN NO. _____ LOMR NO. _____ 404 PERMIT NO. _____ 401 PERMIT NO. _____ 1602 PERMIT NO. _____		COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEET 10 11 SHEETS	
REVEGETATION 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 Grading Permit No. _____	

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.

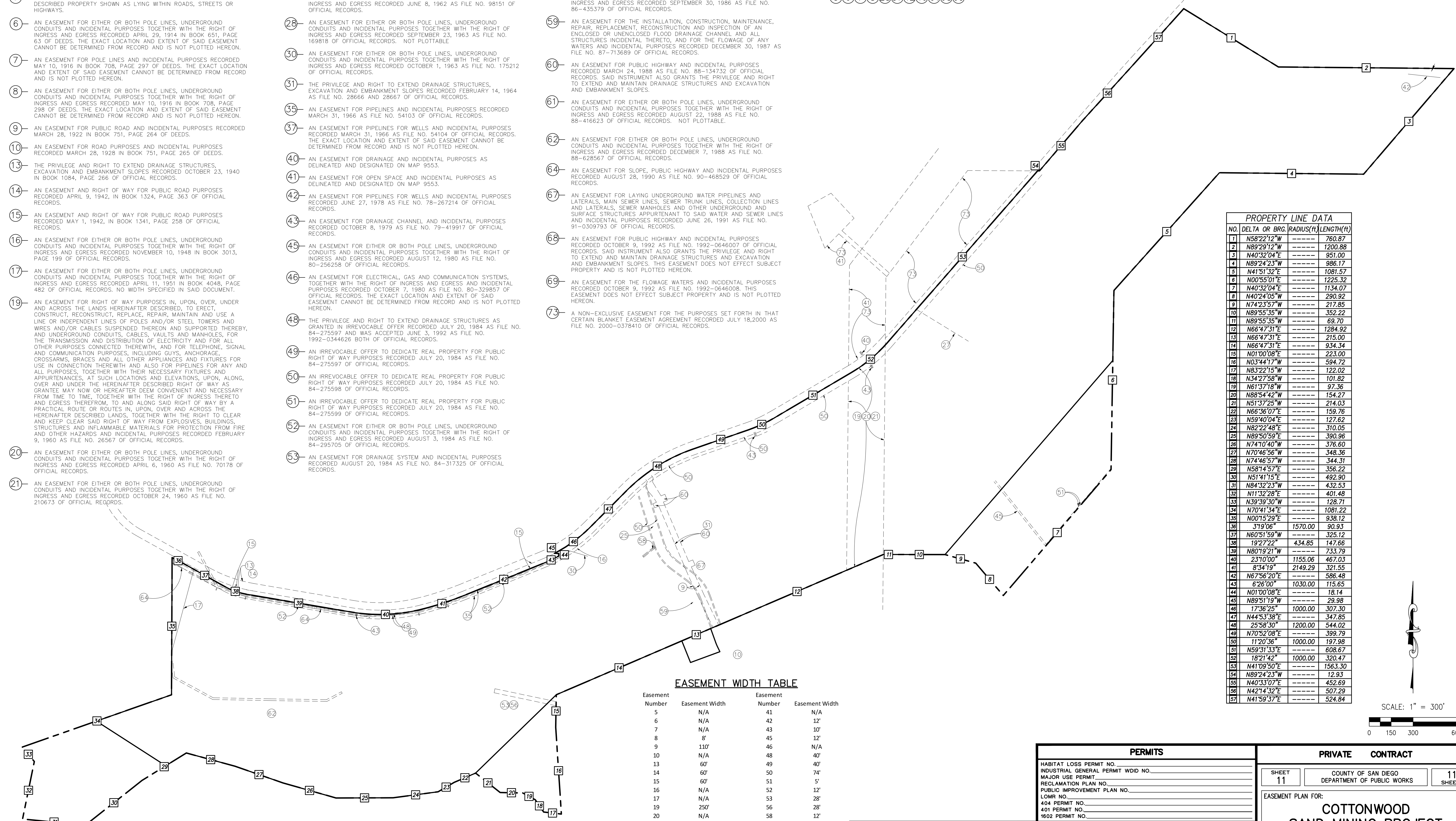
- 5 RIGHTS OF THE PUBLIC IN AND TO ANY PORTION OF THE HEREIN DESCRIBED PROPERTY SHOWN AS LYING WITHIN ROADS, STREETS OR HIGHWAYS.
- 6 AN EASEMENT FOR EITHER OR BOTH POLE LINES, UNDERGROUND CONDUITS AND INCIDENTAL PURPOSES TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS RECORDED APRIL 29, 1914 IN BOOK 651, 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 HERINAFTER 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. 84-293705 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.

NON-PLOTTABLE EASEMENTS
THE EXACT LOCATION AND EXTENT OF SAID EASEMENT CANNOT BE DETERMINED FROM RECORD AND IS NOT PLOTTED HEREON.

- 5 6 7 8 28 37 42 46 61 63 69



PROPERTY LINE DATA			
NO.	DELTA OR BRG.	RADIUS(ft)	LENGTH(ft)
1	N58°22'12"W	-----	760.87
2	N89°29'12"W	-----	1200.88
3	N40°32'04"E	-----	951.00
4	N89°24'23"W	-----	986.17
5	N41°51'32"E	-----	1081.57
6	N00°55'01"E	-----	1225.32
7	N40°32'04"E	-----	1134.07
8	N40°24'05"W	-----	290.92
9	N74°23'57"W	-----	217.85
10	N89°55'35"W	-----	352.22
11	N89°55'35"W	-----	69.70
12	N66°47'31"E	-----	1284.92
13	N66°47'31"E	-----	215.00
14	N66°47'31"E	-----	934.34
15	N01°00'08"E	-----	223.00
16	N03°44'17"W	-----	594.72
17	N83°22'15"W	-----	122.02
18	N34°27'58"W	-----	101.82
19	N61°37'18"W	-----	97.36
20	N88°54'42"W	-----	154.27
21	N51°37'25"W	-----	214.03
22	N66°36'07"E	-----	159.76
23	N59°40'04"E	-----	127.62
24	N82°22'48"E	-----	310.05
25	N89°50'59"E	-----	390.96
26	N74°10'40"W	-----	376.60
27	N70°46'56"W	-----	348.36
28	N74°46'57"W	-----	344.31
29	N58°14'57"E	-----	356.22
30	N51°41'15"E	-----	492.90
31	N84°32'23"W	-----	432.53
32	N11°32'28"E	-----	401.48
33	N39°39'30"W	-----	128.71
34	N70°41'34"E	-----	1081.22
35	N00°15'29"E	-----	938.12
36	379°06"	1570.00	90.93
37	N60°51'59"W	-----	325.12
38	19°27'22"	434.85	147.66
39	N80°19'21"W	-----	733.79
40	231°0'00"	1155.06	467.03
41	8°34'19"	2149.29	321.55
42	N67°56'20"E	-----	586.48
43	6°26'00"	1030.00	115.65
44	N01°00'08"E	-----	18.14
45	N89°51'19"W	-----	29.98
46	17°36'25"	1000.00	307.30
47	N44°53'38"E	-----	347.85
48	25°58'30"	1200.00	544.02
49	N70°52'08"E	-----	399.79
50	11°20'36"	1000.00	197.98
51	N59°31'33"E	-----	608.67
52	18°21'42"	1000.00	320.47
53	N41°09'50"E	-----	1563.30
54	N89°24'23"W	-----	12.93
55	N40°33'07"E	-----	452.69
56	N42°14'32"E	-----	507.29
57	N41°59'37"E	-----	524.84

EASEMENT WIDTH TABLE

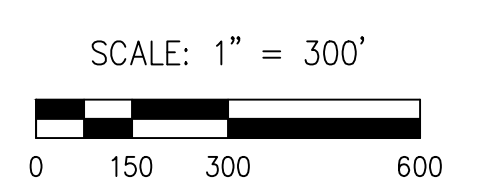
Easement Number	Easement Width	Easement Number	Easement Width
5	N/A	41	N/A
6	N/A	42	12'
7	N/A	43	10'
8	8'	45	12'
9	110'	46	N/A
10	N/A	48	40'
13	60'	49	40'
14	60'	50	74'
15	60'	51	5'
16	N/A	52	12'
17	N/A	53	28'
19	250'	56	28'
20	N/A	58	12'
21	250'	59	20'
25	60'	60	N/A
27	12'	61	4'
28	N/A	62	12'
30	5'	64	N/A
31	60'	67	20'
35	30'	68	N/A
37	15'	69	N/A
40	N/A	73	N/A

PERMITS	
HABITAT LOSS PERMIT NO.	_____
INDUSTRIAL GENERAL PERMIT WDDID NO.	_____
MAJOR USE PERMIT RECLAMATION PLAN NO.	_____
PUBLIC IMPROVEMENT PLAN NO.	_____
LOMR NO.	_____
404 PERMIT NO.	_____
401 PERMIT NO.	_____
1602 PERMIT NO.	_____

PRIVATE CONTRACT	
SHEET 11	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS
EASEMENT PLAN FOR:	
COTTONWOOD SAND MINING PROJECT	
CALIFORNIA COORDINATE INDEX: 210-1791	
Approved COUNTY ENGINEER BY: _____	Engineer of work WAYNE W. CHANG R.C.E. 46548
Date _____	Grading Permit No. _____

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
Date	_____



FOR REVIEW ONLY

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