

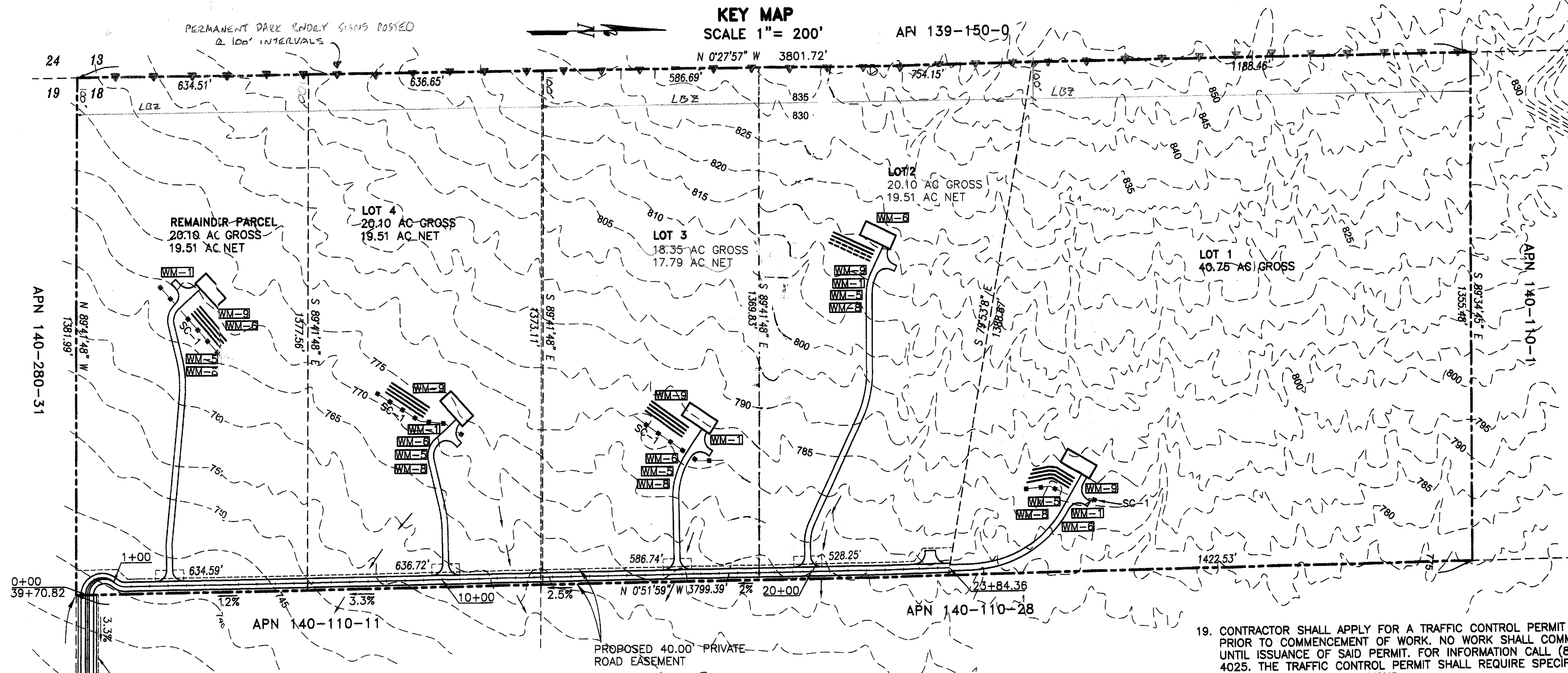
# TENTATIVE GRADING PLAN

IMPROVEMENT PLAN(S)

**WORK TO BE DONE**  
 IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR IMPROVEMENT OF SUB-DIVISION STREETS AND STANDARD REFERENCE DRAWINGS.

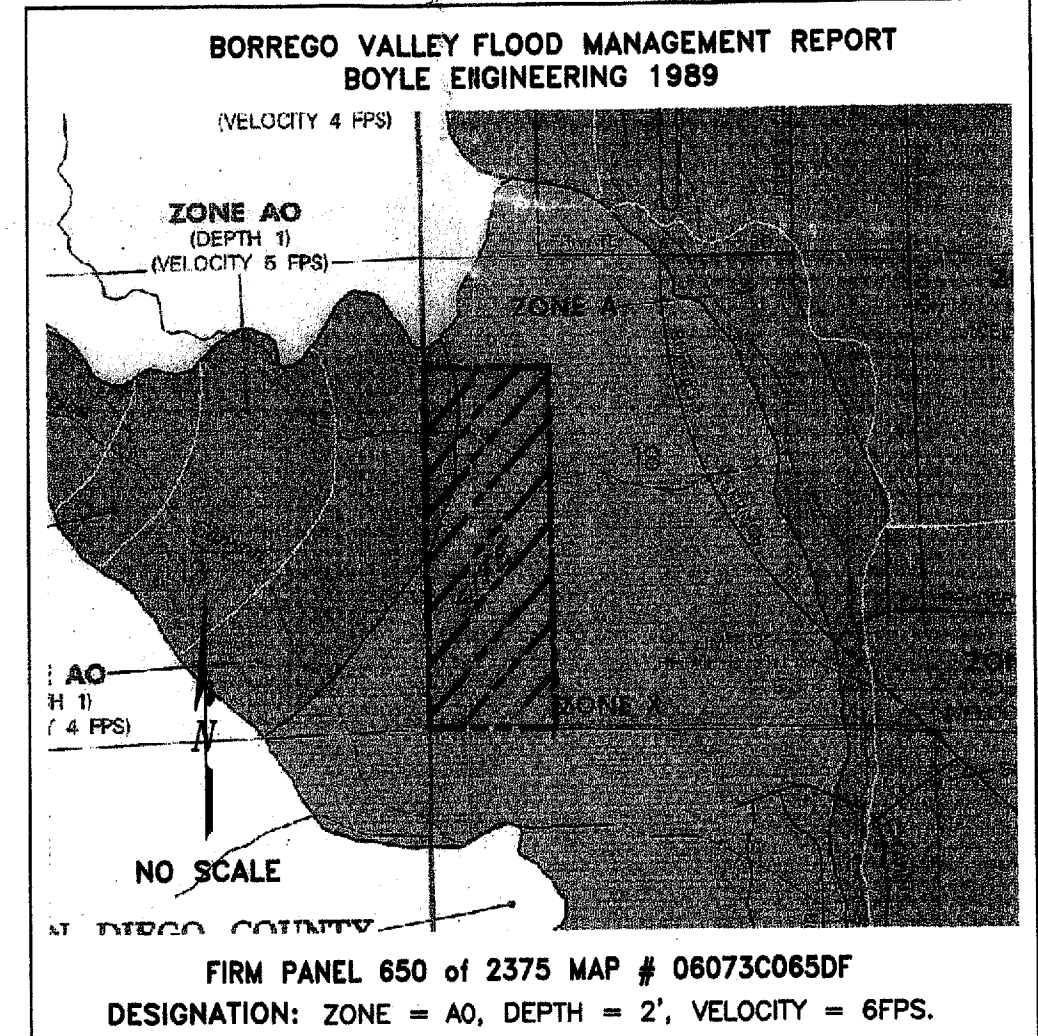
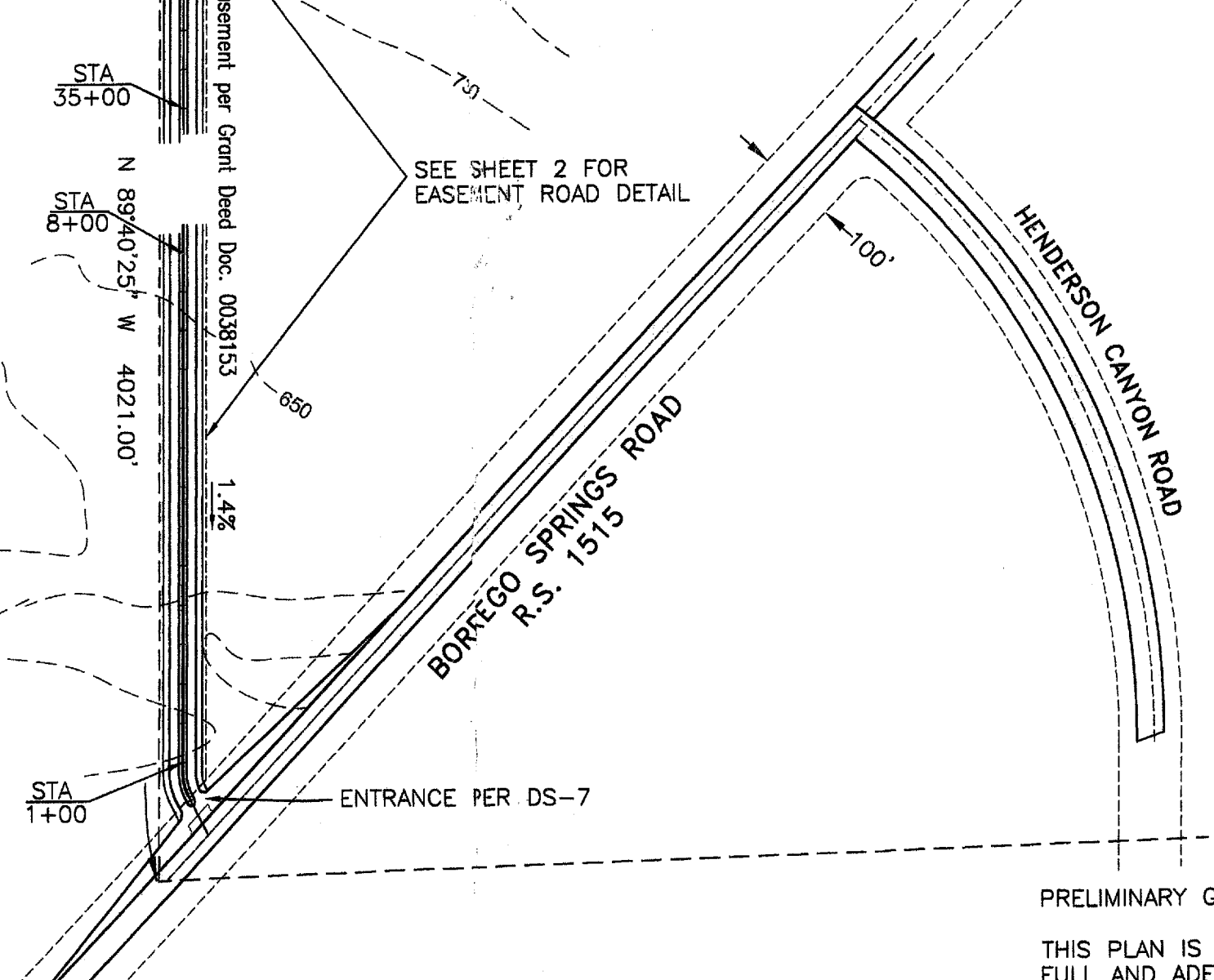
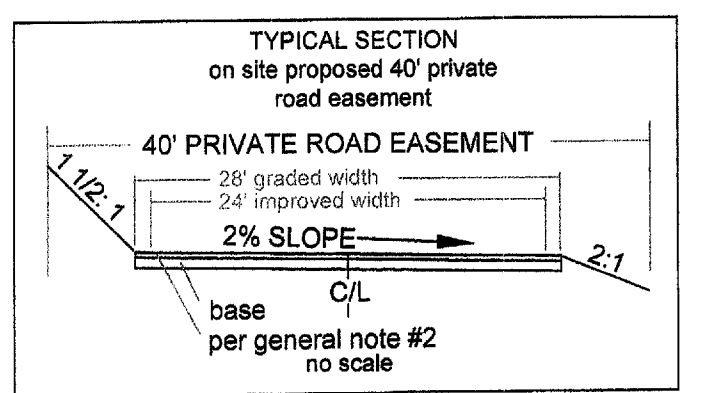
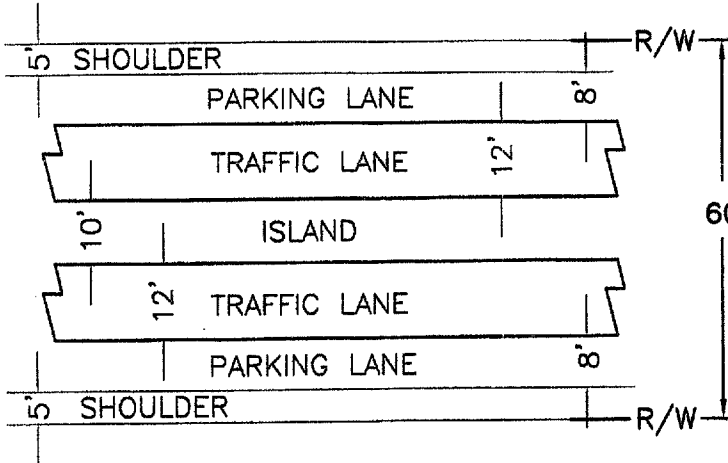
**LEGEND**

ITEM	SYMBOL
CUT SLOPE:	
FILL SLOPE:	
EXISTING CONTOUR:	
PROPOSED CONTOUR:	
EXISTING AC:	
PROPERTY LINE:	
EASEMENT LINE:	
PROPOSED PROPERTY LINE:	
SILT FENCE: SC-1	
GRAVEL BAGS: SC-8	
STABILIZED CONSTRUCTION ENTRANCE:	
MATERIAL DELIVERY AND STORAGE:	
CONCRETE WASTE MANAGEMENT:	
SOLID WASTE MANAGEMENT:	
SANITARY WASTE MANAGEMENT:	
HAZARDOUS WASTE MANAGEMENT:	
DRIVEWAY, DS-7, STABILIZED CONSTRUCTION ENTRANCE:	



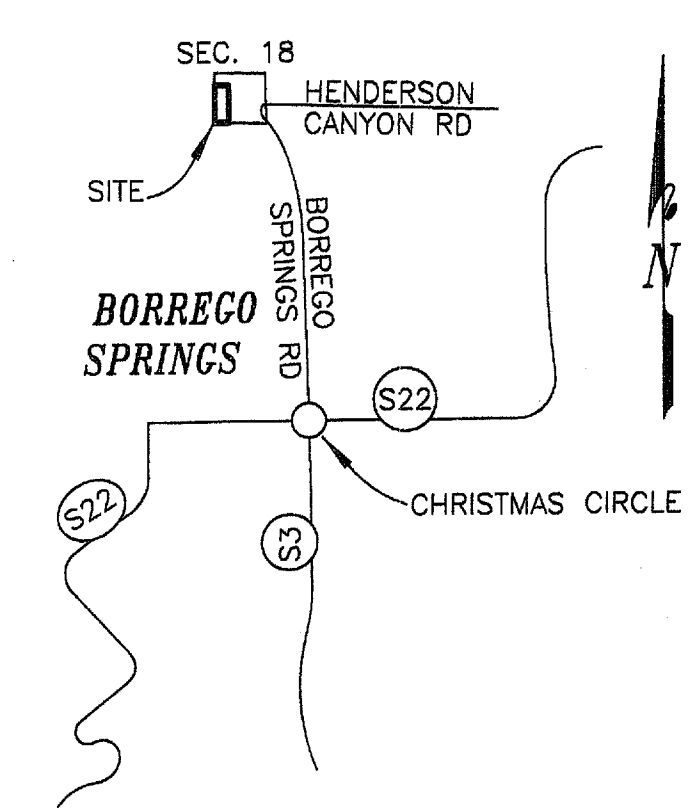
- GENERAL NOTES**
- A PERMIT SHALL BE OBTAINED FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN THE STREET RIGHT-OF-WAY.
  - THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE MATERIALS LABORATORY.
  - APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
  - ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
  - THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
  - LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
  - THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.  
 NOTICE:  
 FOR LOCATIONS OF ELECTRICAL CABLES AND GAS PIPING AND APPURTENANCES CONTACT THE SAN DIEGO GAS AND ELECTRIC COMPANY.  
 TELEPHONE: 1-800-422-4133
  - THE CONTRACTOR SHALL NOTIFY PACIFIC BELL TELEPHONE COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.  
 NOTICE:  
 FOR LOCATION OF CABLES AND APPURTENANCES CONTACT AT&T TELEPHONE COMPANY  
 TELEPHONE: 1-800-422-4133
  - IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
  - FOR TELEVISION SERVICES & CABLES AND APPURTENANCES CONTACT TELEPHONE: 1-800-422-4133
  - POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY, OR WITHIN EASEMENTS DEDICATED TO THE COUNTY OF SAN DIEGO.
  - NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
  - PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS. (IF APPLICABLE)
  - ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE RELECTIVE FACE OR EQUIVALENT.
  - CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
  - ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING SHALL BE DONE BY CONTRACTOR.
  - ALL CUT AND FILL SLOPES THREE FEET(3') OR HIGHER CREATED BY GRADING FORSTREETS AND DRIVEWAYS SHALL BE HYDROSEEDED WITH SAN DIEGO COUNTY APPROVED HYDROSEED MIXTURE. HYDROSEEDED SLOPES SHALL BE IRRIGATED BY WATER TRUCK UNTIL THE MIXTURE GERMINATES AND 70% GROWTH IS ESTABLISHED.
  - ASPHALT CONCRETE SURFACING MATERIAL SHALL BE HANDRAKED AND COMPACTED TO FORM SMOOTH TAPERED CONNECTIONS ALONG ALL EDGES INCLUDING THOSE EDGES ADJACENT TO SOIL. THE EDGES OF THE ASPHALT CONCRETE SHALL BE HAND RAKED AT 45 DEGREES OR FLATTER SO AS TO PROVIDE A SMOOTH TRANSITION NEXT TO EXISTING SOIL. INCLUDING THOSE AREAS SCHEDULED FOR SHOULDER BACKING. THE ABOVE SHALL BE DONE TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.

**TYPICAL SECTION**  
 OFF SITE EASEMENT PER DOC.# 2006-0038153 REC



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

**NO SCALE VICINITY MAP**



**ENGINEER OF WORK**  
 PATRICK L. BROWN - RCE 18067  
 PATRICK ENGINEERING AND SURVEYING  
 P. O. BOX 442  
 JULIAN, CA 92036

**RECORD PLAN**  
 NAME: \_\_\_\_\_  
 R.C.E. 18067 - EXPIRES 06-30-09  
 DATE: \_\_\_\_\_

**SITE ADDRESS**  
 BORREGO SPRINGS ROAD  
 BORREGO SPRINGS, CA 92004

**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 8703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

**LEGAL DESCRIPTION**  
 portion of Sect 18, Township 10 South, R 6 East  
 ASSESSORS PARCEL NO. 140-110-03

**DISTURBED AREA CALCS**

SLOPES:	0	SF
GRADED WIDTH ROAD:	19,500	SF
TOTAL:	19,500	SF

IF ≥ 1AC, PROVIDE WID# : n / o

**SEWER AGENCY**  
 SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH  
 APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**WATER AGENCY**  
 BORREGO WATER DISTRICT  
 APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**FIRE AGENCY**  
 BORREGO SPRINGS FIRE DEPARTMENT  
 APPROVAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**OWNERS CERTIFICATE**

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.  
 IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PUBLIC WORKS DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETIONS OF THE IMPROVEMENTS.  
 I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING COUNTY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED.

OWNER: KURT LEVENS PHONE NO: 760.550.2800  
 ADDRESS: P.O. BOX 2109, BORREGO SPRINGS CA. 92004  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_ APN 140-110-03

**PERMITS**  
 REZONE PERMIT NO. NONE  
 HABITAT LOSS PERMIT \_\_\_\_\_  
 HDPM NO. VPM  
 GRADING PERMIT NO. \_\_\_\_\_

**BENCH MARK**  
 DESCRIPTION: 0  
 LOCATION: 0  
 RECORD FROM: \_\_\_\_\_  
 ELEVATION: 0 DATUM: SD CO 200 SCALE

**PRIVATE CONTRACT**

SHEET 1	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	3 OF SHEETS
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IMPROVEMENT PLAN FOR:  
**KURT LEVENS**  
 CALIFORNIA COORDINATE INDEX 410-1953; 414-1953

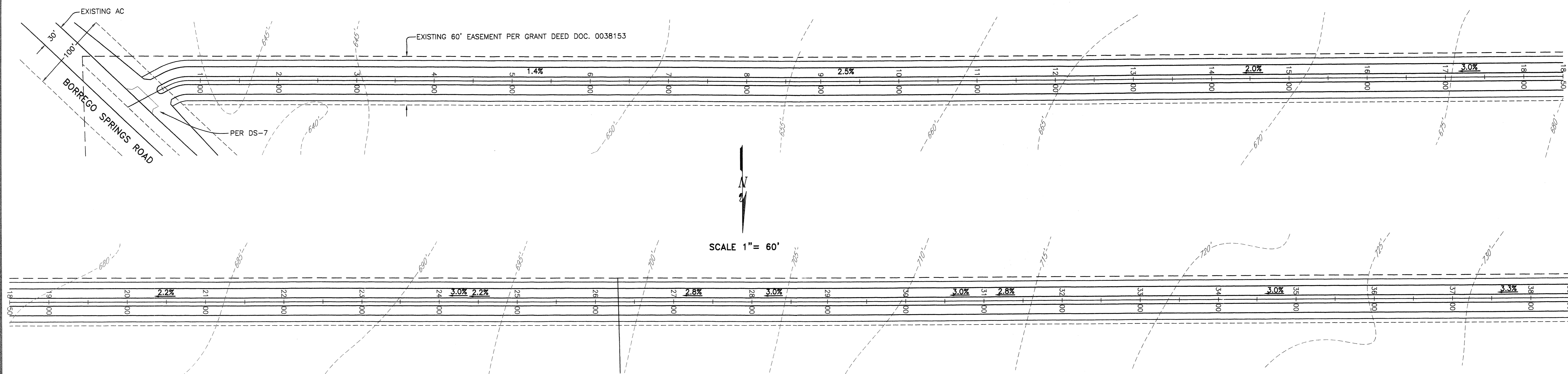
RECOMMENDED FOR APPROVAL: N/A APPROVED: SEE LEFT  
 ENGINEER OF WORK: PATRICK L. BROWN CHECKED BY: N/A  
 DATE: 18067 APPROVAL DATE: TPM

RECORD 1ST ITERATION

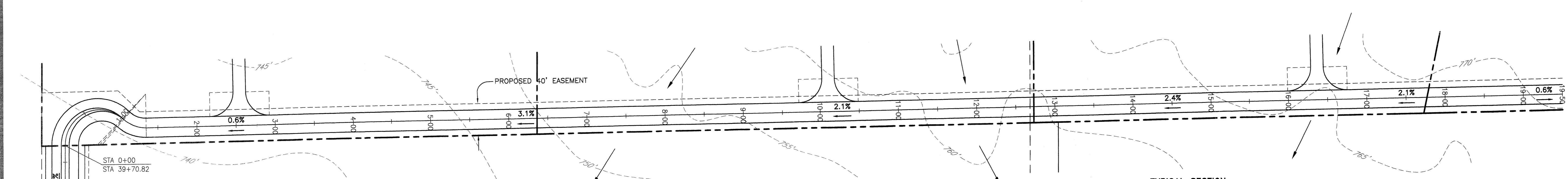
PATRICK ENGINEERING AND SURVEYING 760-665-1333

# TENTATIVE GRADING PLAN

IMPROVEMENT PLAN(S)



SCALE 1" = 60'

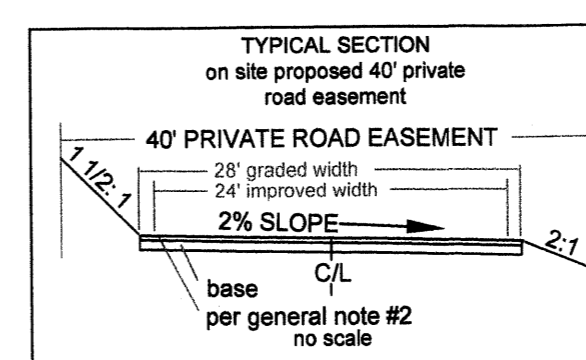


SCALE 1" = 60'

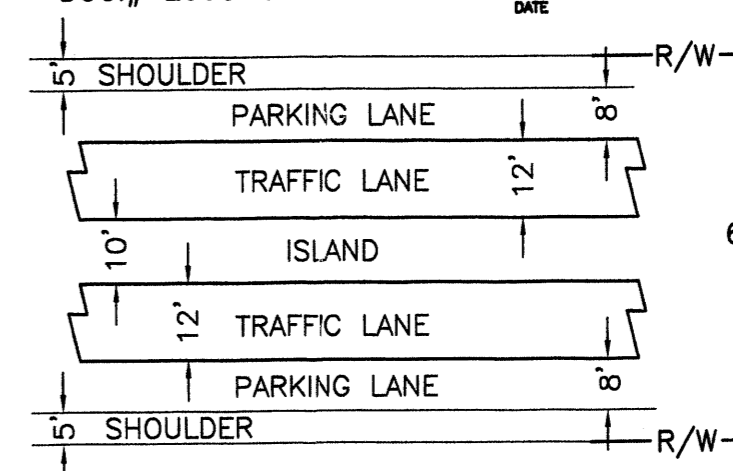
### ADDITIONAL GRADING NOTES (ARCHAEOLOGICAL)

- THE COUNTY CERTIFIED ARCHAEOLOGIST/HISTORIAN AND NATIVE AMERICAN MONITOR SHALL ATTEND THE PRE-CONSTRUCTION MEETING WITH THE CONTRACTORS TO EXPLAIN AND COORDINATE THE REQUIREMENTS OF THE MONITORING PROGRAM.
  - DURING THE CUTTING OF PREVIOUSLY UNDISTURBED DEPOSITS, THE ARCHAEOLOGICAL MONITOR(S) AND NATIVE AMERICAN MONITOR(S) SHALL BE ONSITE AS DETERMINED BY THE PRINCIPAL INVESTIGATOR OF THE EXCAVATIONS. THE FREQUENCY AND LOCATION OF THE INSPECTIONS WILL BE DETERMINED BY THE PRINCIPAL INVESTIGATOR IN CONSULTATION OF THE NATIVE AMERICAN MONITOR. MONITORING OF CUTTING OF PREVIOUSLY DISTURBED DEPOSITS WILL BE DETERMINED BY THE PRINCIPAL INVESTIGATOR.
  - IN THE EVENT THAT THE PREVIOUSLY UNIDENTIFIED POTENTIALLY SIGNIFICANT CULTURAL RESOURCES ARE DISCOVERED, THE ARCHAEOLOGICAL MONITOR(S) SHALL HAVE THE AUTHORITY TO DIVERT OR TEMPORARILY HALT GROUND DISTURBANCE OPERATION IN THE AREA OF THE DISCOVERY TO ALLOW EVALUATION OF POTENTIALLY SIGNIFICANT CULTURAL RESOURCES. THE PRINCIPAL INVESTIGATOR SHALL CONTACT THE COUNTY ARCHAEOLOGIST AT THE TIME OF DISCOVERY. THE PRINCIPAL INVESTIGATOR, IN CONSULTATION WITH THE COUNTY STAFF ARCHAEOLOGIST, SHALL DETERMINE THE SIGNIFICANCE OF THE DISCOVERED RESOURCES. THE COUNTY ARCHAEOLOGIST MUST CONCUR WITH THE EVALUATION BEFORE CONSTRUCTION ACTIVITIES WILL BE ALLOWED TO RESUME IN THE AFFECTED AREA. FOR SIGNIFICANT CULTURAL RESOURCES, A RESEARCH DESIGN AND DATA RECOVERY PROGRAM TO MITIGATE IMPACTS SHALL BE PREPARED BY THE CONSULTING ARCHAEOLOGIST AND APPROVED BY THE COUNTY ARCHAEOLOGIST, THEN CARRIED OUT USING PROFESSIONAL ARCHAEOLOGICAL METHODS.
  - THE CONSULTING ARCHAEOLOGIST SHALL MONITOR ALL AREAS IDENTIFIED FOR DEVELOPMENT INCLUDING OFF-SITE IMPROVEMENTS.
- IF ANY HUMAN BONES ARE DISCOVERED, THE PRINCIPAL INVESTIGATOR SHALL CONTACT THE COUNTY CORONER. IN THE EVENT THAT THE REMAINS ARE DETERMINED TO BE OF NATIVE AMERICAN ORIGIN, THE MOST LIKELY DESCENDANT, AS IDENTIFIED BY THE NATIVE AMERICAN HERITAGE COMMISSION, SHALL BE CONTACTED IN ORDER TO DETERMINE PROPER TREATMENT AND DEPOSITION OF THE REMAINS.
  - PRIOR TO ROUGH GRADING INSPECTION SIGN OFF, PROVIDE EVIDENCE THAT THE FIELD GRADING MONITORING ACTIVITIES HAVE BEEN COMPLETED TO THE SATISFACTION OF THE DIRECTOR OF THE PLANNING AND LAND USE. EVIDENCE SHALL BE IN THE FORM OF A LETTER FROM THE PRINCIPAL INVESTIGATOR. [DPLU, FEE]
  - PRIOR TO FINAL GRADING RELEASE, SUBMIT TO THE SATISFACTION OF THE DIRECTOR OF PLANNING AND LAND USE, THE FINAL REPORT OF THE ARCHAEOLOGICAL MONITORING PROGRAM.
  - IN THE EVENT THAT NO CULTURAL RESOURCES ARE DISCOVERED, A BRIEF LETTER TO THAT EFFECT SHALL BE SENT TO THE DIRECTOR OF PLANNING AND LAND USE BY THE CONSULTING ARCHAEOLOGIST THAT THE GRADING MONITORING ACTIVITIES HAVE BEEN COMPLETED.

WHEREIN LANDSCAPING IS REQUIRED, NATIVE PLANTS SHALL BE USED TO THE GREATEST EXTENT FEASIBLE. THE PROJECT SHALL NOT PLANT, SEED, OR OTHERWISE INTRODUCE INVASIVE OR EXOTIC PLANT SPECIES FOR LANDSCAPING AS SHOWN ON LISTS A&B OF THE CALIFORNIA EXOTIC PLANT COUNCIL'S LIST OF EXOTIC PEST PLANTS OF GREATEST ECOLOGICAL CONCERNS IN CALIFORNIA AS OF OCTOBER 1999.



### TYPICAL SECTION OFF SITE EASEMENT PER DOC.# 2006-0038153 REC



### DISTURBED AREA CALCULATIONS

lot #	add'l driveway clearing	site 3600 sf bldg
1	8695 Sq. Ft.	7200 Sq. Ft.
2	15184 Sq. Ft.	7200 Sq. Ft.
3	7654 Sq. Ft.	7200 Sq. Ft.
4	8501 Sq. Ft.	7200 Sq. Ft.
rem.	14871 Sq. Ft.	7200 Sq. Ft.
<b>totals</b>	<b>(1.26 AC) 54705 Sq. Ft.</b>	<b>(0.83 AC) 36000 Sq. Ft.</b>

IF ≥ 1AC PROVIDE W/D# :

### DISTURBED AREA CALCULATIONS

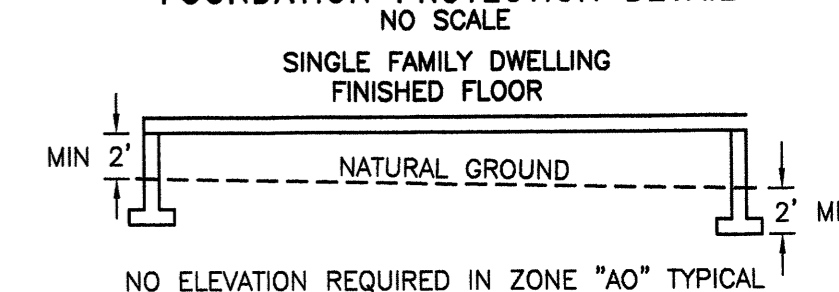
EASEMENT ROAD	131,654
PRIVATE ROAD	95212
<b>TOTALS</b>	<b>226,866 SQ FT</b>
	<b>(5.21 AC)</b>

IF ≥ 1AC PROVIDE W/D# :

### PRELIMINARY GRADING PLAN NOTE

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### FOUNDATION PROTECTION DETAIL

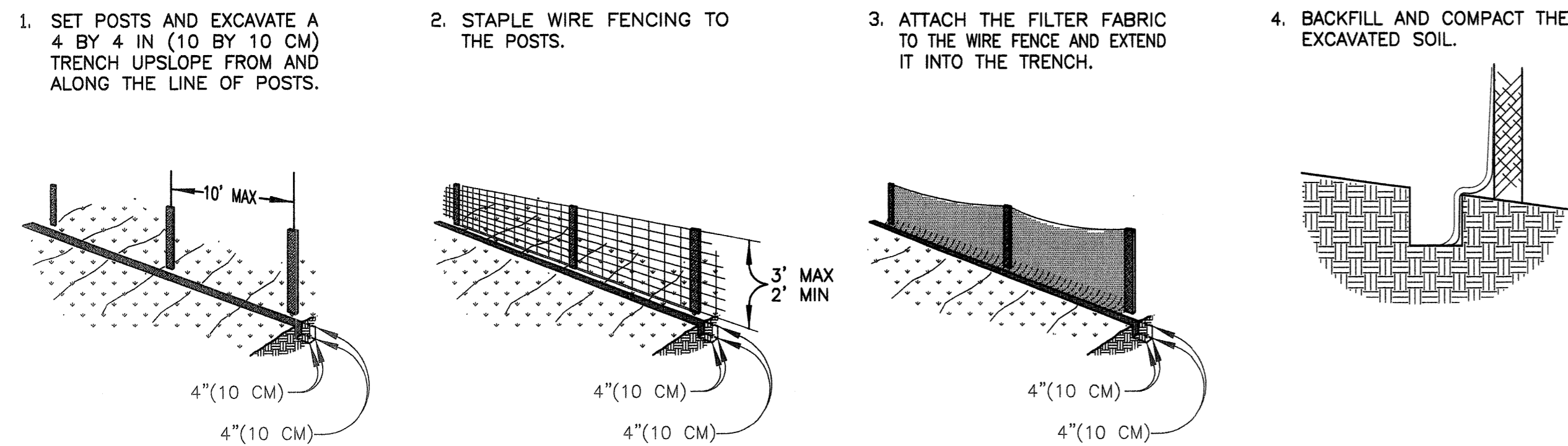


### PRIVATE CONTRACT

SHEET <b>2</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	OF SHEETS <b>3</b>
IMPROVEMENT PLAN FOR: <b>KURT LEVENS</b>		
CALIFORNIA COORDINATE INDEX 410-1953; 414-1953		
RECOMMENDED FOR APPROVAL N/A	APPROVED: SEE LEFT	
ENGINEER OF WORK: PATRICK L. BROWN P.L.B. 18067	CHECKED BY: N/A	APPROVAL DATE: TPM

PATRICK L. BROWN ENGINEERING AND SURVEYING 760-785-1343

**TYPICAL SILT FENCE CONSTRUCTION DETAILS**  
NTS

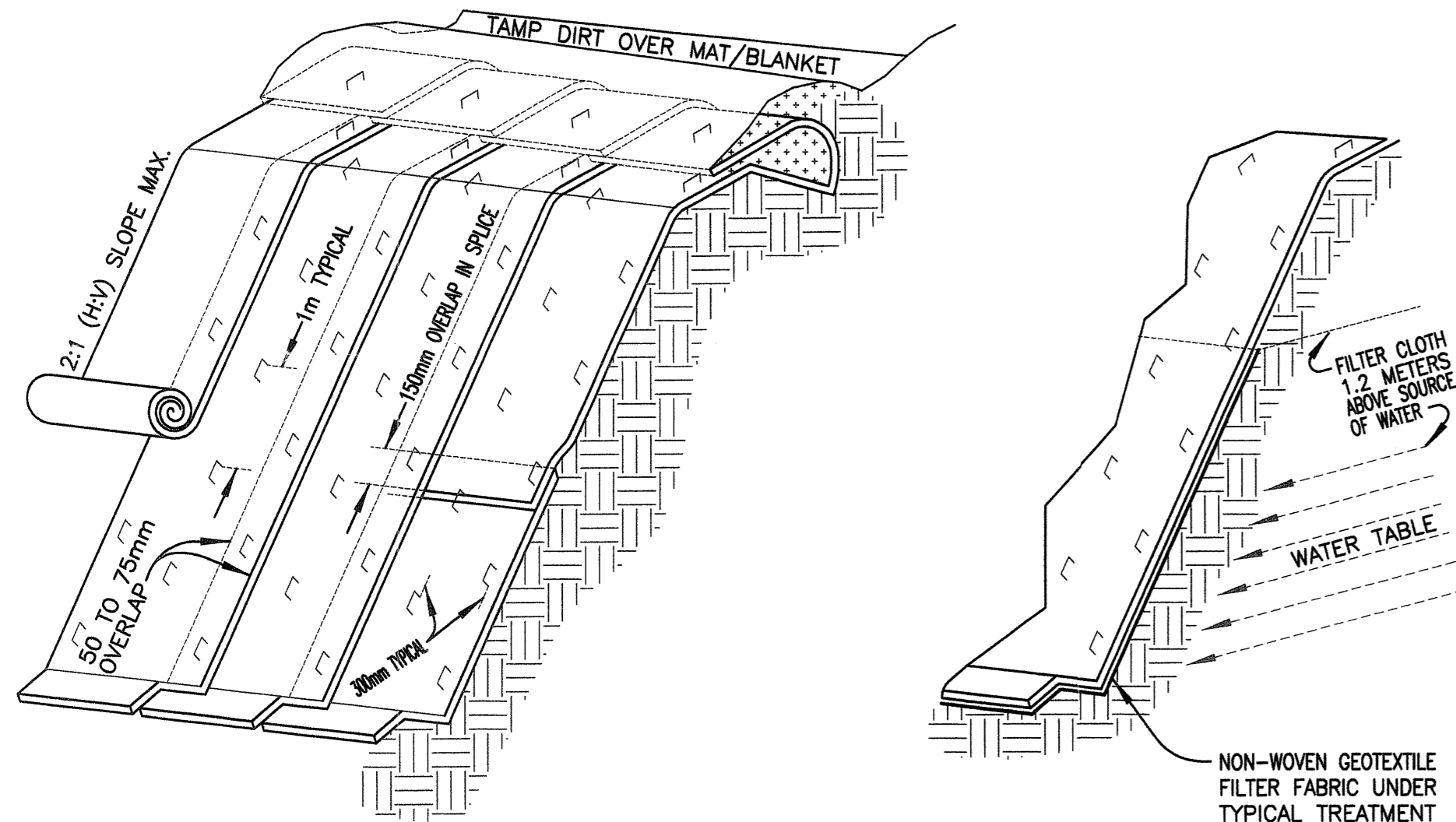


NOTE:  
ALL CUT AND FILL SLOPES TO BE SEEDED WITH , COVERED WITH STRAW OR HAY AND ANCHORED WITH JUTE MATTING PER CAL TRANS CD 26 B(2)

**TYPICAL SLOPE SOIL STABILIZATION**  
NTS

**WET SLOPE LINING**  
NTS

**RIP RAP ENERGY DISSIPATER (TYPICAL)**  
NO SCALE



FILTER BLANKET: EITHER GRANULAR MATERIAL OR PLASTIC CLOTH PER D-40

**SAND OR GRAVEL BAG PLACEMENT**

GRADE	SPACING	HEIGHT
0% TO 2%	200' TO 400'	1 BAG
2% TO 4%	200'	1 BAG
4% TO 6%	50'	1 BAG
6% TO 10%	50'	2 BAGS
10% >	25'	2 BAGS

THE CHART BELOW LISTS THE PAGES FROM THE STORM WATER MANAGEMENT BOOKS THAT ARE TO BE UTILIZED ON THIS PROJECT

CAL TRANS STORM WATER QUALITY HANDBOOK NO.	CALIFORNIA STORM WATER BMP HANDBOOK FOR CONSTRUCTION
CD08	NS-3
CD10	WM-1
CD11	WM-2
CD12	WM-4
	WM-5
CD13	WM-6
CD16	WM-9
CD19	SS-1
CD22	SS-2
CD23	SS-3
CD24B	SS-4
CD26B	SS-7
CD29A	TC-1
CD31	SS-9
CD32B	ESC10
CD33A	ESC23
CD36	ESC31
CD38	ESC32B
	ESC33A
	SC-1
	ESC50
	ESC52
	CA02 PAVING OPERATIONS
	CA10 MATERIAL DELIVERY AND STORAGE
	CA11 MATERIAL USE
	CA12 SPILL PREVENTION AND CONTROL
	CA20 SOIL WASTE MANAGEMENT (STUMPS, CONCRETE, ETC.)
	CA21 HAZARDOUS WASTE MANAGEMENT
	CA24 SEPTIC WASTE MANAGEMENT
	ESC01 SCHEDULING
	ESC02 PRESERVATION OF EXISTING VEGETATION
	MULCH
	ESC10 SEEDING AND PLANTING
	ESC23 GEOTEXTILES, MATS AND COVERS
	ESC31 STABILIZED CONSTRUCTION ENTRANCE
	ESC31 DIKES, SWALES AND DITCHES
	ESC32B TOP AND TOE OF SLOPE DIVERSION DITCHES/BERMS
	ESC33A OUTLET PROTECTION, VELOCITY DISSIPATION DEVICES
	SC-1 SILT FENCES
	ESC52 SAND BAG BARRIER

**BIP LEGEND**

IMPROVEMENTS, GRADING AND DRAINAGE CONSISTS OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS: THE CURRENT SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR GRADING OF PRIVATE ROADS AND TANDARD REFERENCE DRAWINGS.

**BMP LEGEND**

ITEM	SYMBOL
MATERIALS DELIVERY AND STORAGE=	WM-1
SOLID WASTE MANAGEMENT=	WM-5
HAZARDOUS WASTE MAIAGEMENT=	WM-6
CONCRETE WASTE MANAGEMENT=	WM-8
SANITARY/SEPTIC WASTE MANAGEMENT=	WM-9
SS6 AND SS8= MULCI, STAW, WOOD CHIPS, SOIL APPLICATION	
SILT FENCE-CD36(2), SC-1=	■ ■ ■ ■ ■
OUTLET PROTECTION/VELOCITY DISSIPATION DEVICES (D33A(2) OR SD RSD D-40=	⊗
GRAVEL BAG BARRIER-CD38(2)=	□ GB □ GB □

**EROSION CONTROL NOTES**

- ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1 ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1 AND APRIL 30, 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 SYSTEM SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

**SILTATION AND SEDIMENT CONTROL MEASURES NOTES:**

- THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
  - SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
  - SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.
  - ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS WITH A TOP ELEVATION TWO SANDBAGS BELOW THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE BUT NOT TO EXCEED THE FOLLOWING:
- | GRADE OF THE STREET | INTERVAL    |
|---------------------|-------------|
| LESS THAN 2%        | AS REQUIRED |
| 2% TO 4%            | 100 FEET    |
| 4% TO 10%           | 50 FEET     |
| OVER 10%            | 25 FEET     |
- AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
  - ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
  - PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:
- | GRADE OF CHANNEL | INTERVALS BETWEEN CHECK DAMS |
|------------------|------------------------------|
| LESS THAN 3%     | 100 FEET                     |
| 3% TO 6%         | 50 FEET                      |
| OVER 6%          | 25 FEET                      |
- PROVIDE A SANDBAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
  - SANDBAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
  - ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
  - PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION SHOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDEED SLOPES, OR FROM IMPERVIOUS SURFACES.
  - ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES: I.E., COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

**STORMWATER PROTECTION NOTES**

- "DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% 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."
- "NO AREA BEING DISTURBED SHALL EXCEED 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 10 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD."
- "THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMPS (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 BMPS IS THE PERMITEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMPS MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATIVE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO."

FLAT AREAS OF LESS THAN 5% SLOPE (LIKE BUILDING PADS, PARKING AREAS, LEACH FIELDS) SHALL HAVE 100% PROTECTION USING GEOTEXTILES, MATS (SS-7 OR ESC20), OR OTHER MATERIAL APPROVED BY THE COUNTY FOR STABILIZING SLOPES, OR USING TRACKING AND SOIL STABILIZERS/BINDERS (SS-5), TEMPORARY SEEDING (SS-4), MULCH/WOOD CHIPS (SS-3, SS-6, SS-8), OR JUTE MATTING (SS-7). THE COUNTY MAY REDUCE THIS REQUIREMENT FOR FLAT AREAS PROVIDED FULL SEDIMENT CONTROL IS PROVIDED THROUGH CONSTRUCTED AND MAINTAINED

**REFERENCES**

- GRADING ORDINANCE-SECTIONS 87.101 THROUGH 87.717 OF SAN DIEGO COUNTY CODE OF REGULATORY ORDINANCES.
- STORMWATER ORDINANCE-SECTIONS 87.801 THROUGH 87.811 OF SAN DIEGO COUNTY CODE OF REGULATORY ORDINANCES.
- STORMWATER PERMIT #000002
- CALTRANS STORM WATER QUALITY HANDBOOK (BMP) DATED APRIL, 1997
- CALIFORNIA STORM WATER BMP HANDBOOK FOR CONSTRUCTION DATED MARCH, 1993

THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

SDG&E: TELEPHONE NO. (800) 422-4133  
 PACIFIC TELEPHONE: TELEPHONE NO. (800) 422-4133  
 CATV: TELEPHONE NO. (800) 422-4133  
 SEWER: TELEPHONE NO. (800) 422-4133  
 WATER: TELEPHONE NO. (800) 422-4133

I CERTIFY THAT THE "PRIVATE ROAD" IMPROVEMENT SHOWN ON THIS PLAN SATISFIES THE REQUIREMENTS AS STATED IN THE FINAL NOTICE OF APPROVAL FOR TPM 20766 RPL2 AND THE STANDARD FOR PRIVATE ROADS.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PATRICK L. BROWN-RCE 18067-EXP. 06-30-07  
 INSPECTION BY: \_\_\_\_\_ X \_\_\_\_\_ ENGINEER OF WORK  
 \_\_\_\_\_ COUNTY

SECURITY REQUIRED: \_\_\_\_\_ YES  
 \_\_\_\_\_ X \_\_\_\_\_ NO

THE COUNTY IS NOT RESPONSIBLE FOR THE DESIGN IN ANY WAY, REVIEWED FOR CLARITY ONLY.  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FOR: COUNTY ENGINEER

**ALTERNATE SLOPE STABILIZATION**

**BONDED FIBER MATRIX (BFM)**

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

**PERMITS**

REZONE PERMIT NO.	NONE
SPECIAL USE PERMIT NO.	NONE
HDPM NO.	
GRADING PERMIT NO.	

**PRIVATE CONTRACT**

SHEET	COUNTY OF SAN DIEGO	3
3	DEPARTMENT OF PUBLIC WORKS	OF SHEETS

IMPROVEMENT PLAN FOR:  
**KURT LEVENS**

CALIFORNIA COORDINATE INDEX 410-1953; 414-1953

RECOMMENDED FOR APPROVAL	N/A	APPROVED:	SEE LEFT
CHECKED BY: PATRICK L. BROWN	DATE: 1/14/07	CHECKED BY: N/A	APPROVAL DATE: TPM

**RECORD PLAN**

NAME: \_\_\_\_\_  
 R.C.E. 18067 - EXPIRES 06-30-09  
 DATE: \_\_\_\_\_

**BENCH MARK**

DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 RECORD FROM: \_\_\_\_\_  
 ELEVATION: \_\_\_\_\_ DATUM: ASSUMED

PACIFIC ENGINEERING AND SURVEYING 760-765-1343