

# COUNTY OF SAN DIEGO TRACT NO. 5229-1

## GENERAL NOTES

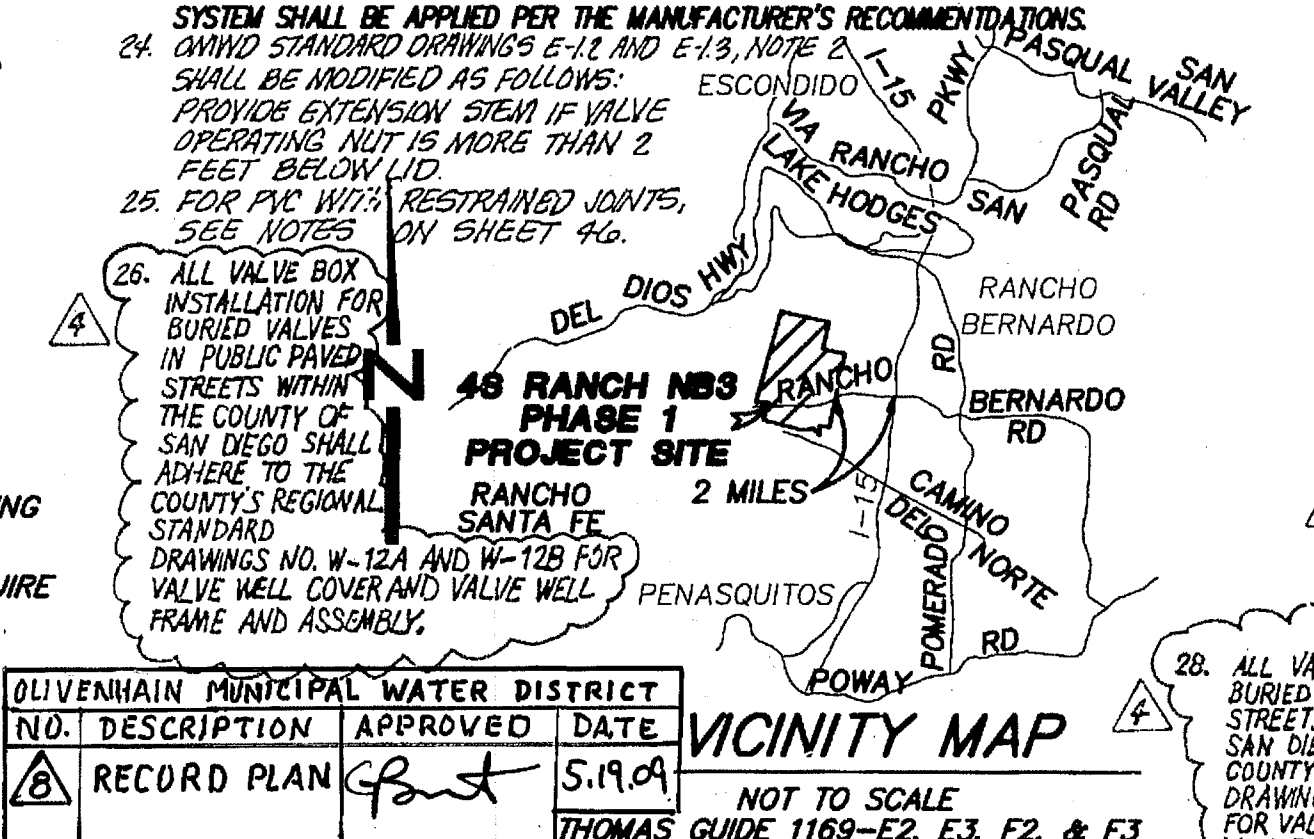
- A PERMIT SHALL BE OBTAINED FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN THE STREET RIGHT-OF-WAY.
- THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE MATERIALS LABORATORY.
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE 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 THE DIKE, CURB, CROSS-CUTTER 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 FACILITIES 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 & ELECTRIC COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS/HER WORK WITH COMPANY REPRESENTATIVES.  
NOTICE: ALL ELECTRICAL AND GAS SERVICES WITHIN THIS PROJECT ARE UNDERGROUND INSTALLATIONS. FOR LOCATION OF ELECTRICAL CABLES AND GAS PIPING AND APPURTENANCES CONTACT THE SAN DIEGO GAS & ELECTRIC COMPANY. TELEPHONE (619) 232-4252
- THE CONTRACTOR SHALL NOTIFY THE PACIFIC BELL TELEPHONE COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS/HER WORK WITH COMPANY REPRESENTATIVES.  
NOTICE: ALL TELEPHONE SERVICES WITHIN THIS PROJECT BOUNDARY ARE UNDERGROUND INSTALLATIONS. FOR LOCATION OF CABLES AND APPURTENANCES CONTACT THE PACIFIC BELL TELEPHONE COMPANY. TELEPHONE (619) 293-0595
- 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.
- ALL TELEVISION SERVICES WITHIN THIS PROJECT ARE UNDERGROUND INSTALLATIONS. FOR LOCATION OF CABLES AND APPURTENANCES CONTACT COX COMMUNICATIONS (619) 293-9251 & TIME WARNER CABLE (658) 635-8724
- CONSTRUCT A PUBLIC STREET LIGHT SYSTEM CONFORMING TO SAN DIEGO COUNTY STANDARDS AND STREET LIGHT SPECIFICATIONS. POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL POWER SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY.
- 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.
- ALL SIGNS TO BE ALUMINUM WITH ENGINEER GRADE REFLECTIVE SHEETING, EXCEPT FOR THE FOLLOWING WHICH SHALL HAVE HIGH INTENSITY REFLECTIVE SHEETING: R1, R1-2, W1, W2, W3, W4, W5, W6, W11, W14, W17, W23, W56, W57, AND W61.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT 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.
- C.M.P. STORM DRAINS SHALL BE CERTIFIED BY THE DEVELOPER'S SOILS ENGINEER TO HAVE A 50 YEAR SERVICE LIFE FOR THE PARTICULAR SOIL AND LOCATION SHOWN ON THE PLANS. THIS CERTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE STORM DRAIN.
- ALL CUT AND FILL SLOPES THREE (3) FEET CREATED BY GRADING FOR STREETS 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 GROWTH IS ESTABLISHED.
- THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. PCC SURFACING OF THE DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE. USE STANDARD DRAWINGS G-14, G-15, G-16
- RAISED PAVEMENT MARKERS SHALL BE ON ALL NEW CENTERLINE AND LANE LINE STRIPING PER CALTRANS STANDARD PLANS.
- NO PAVING SHALL BE DONE UNTIL ALL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
- MANHOLES TO BE ADJUSTED TO FINISHED GRADE AFTER FINAL PAVING.
- THE DRAINAGE STUDY FOR THIS PROJECT, AS RANCHED, BY NOLTE ASSOCIATES, DATED AUGUST, 1999 HAS BEEN APPROVED BY THE COUNTY OF SAN DIEGO.

## FIRE NOTES

- STREET ADDRESS SHALL BE PERMANENTLY POSTED. NUMERALS SHALL BE 4" MINIMUM AND SHALL CONTRAST WITH MOUNTING SURFACE. SIZE AND LOCATION MAY REQUIRE CHANGE WITH POOR VISIBILITY AND SIGHT DISTANCE FROM STREET.
- ROADWAYS SHALL BE SURFACED WITH ASPHALT OR CONCRETE, DEPENDING UPON THE GRADE. GRADE CANNOT EXCEED 20%.
- ANY MODIFICATIONS TO DRIVEWAYS OR ACCESS, INCLUDING GATES, REQUIRE APPROVAL FROM THE FIRE PREVENTION BUREAU.
- "FIRE HYDRANT REQUIRED" SHOULD THE PROPOSED BUILDING LIE IN EXCESS OF 300 FEET FROM AN EXISTING FIRE HYDRANT. DISTANCE TO BE MEASURED BY TRAVEL ON ROADWAY/DRIVEWAY.
- STREETS AND FIRE HYDRANTS SHALL BE IN PLACE PRIOR TO ANY COMBUSTIBLE MATERIALS BEING BROUGHT ONTO JOB SITE.

## OMWD RECYCLED WATER NOTES

- THE RECYCLED WATER SYSTEM SHALL CONFORM TO THE RULES AND REGULATIONS FOR RECLAIMED AND NON-POTABLE WATER SERVICE OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT, ORDINANCE NO. 175, DATED MARCH 1989, AND ALL SUBSEQUENT AMENDMENTS.
- RECYCLED WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST RECENT EDITION OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT (DISTRICT) STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER MAINS AND FACILITIES, INCLUDING ALL AMENDMENTS ADOPTED PRIOR TO THE DISTRICT APPROVAL DATE ON THESE PLANS DECEMBER 1987. CONTRACTOR SHALL HAVE A COPY OF THE OMWD STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- THE SUBMISSION AND REVIEW OF ALL SUBMITTALS (SHOP DRAWINGS, SIX SETS) AS REQUIRED BY THE OMWD STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE DISTRICT'S INSPECTOR.
- UNLESS OTHERWISE NOTED, CONNECTIONS TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE DISTRICT. DISTRICT SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY SHUTDOWN.
- CONTRACTOR SHALL COORDINATE WITH DISTRICT ALL ARRANGEMENTS FOR HIGH-LINING TEMPORARY SERVICES PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO CONSTRUCTION.
- NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF DISTRICT'S INSPECTOR. CONTRACTOR SHALL NOTIFY THE DISTRICT INSPECTION DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF WORK TO ARRANGE FOR INSPECTION OF THE PROJECT.
- THE CONTRACTOR MUST CALL "DIG ALERT OF SOUTHERN CALIFORNIA" TO HAVE UNDERGROUND SERVICE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THIS CALL WILL BE MADE AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY WORK BEING PERFORMED IN PUBLIC RIGHT-OF-WAY.
- ALL EXISTING FACILITIES WHICH MAY AFFECT FINAL CONSTRUCTION, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED.
- THE CONTRACTOR SHALL FURNISH AND INSTALL PER THE OMWD STANDARD SPECIFICATIONS THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC RECYCLED WATER LINES INCLUDING RECYCLED WATER LATERALS LOCATED IN PUBLIC RIGHT-OF-WAY.
- RECYCLED WATER MAIN SHALL BE PURPLE PVC PIPE AWWA C 900, WITH TWO CONTINUOUS METALLIC TAPE STRIPS, STAMPED "RECYCLED WATER." STRIPS SHALL BE SET AT TOP OF PIPE AND AT 24" ABOVE THE PIPE.
- WHERE ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 66-INCHES BELOW CENTERLINE OF FINISH GRADE OF STREET.
- ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT), NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.
- MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. MANUAL AIR RELEASES AND BLOW-OFFS SHALL BE LOCATED BEHIND CURB UNLESS OTHERWISE APPROVED BY DISTRICT'S REPRESENTATIVE.
- INSTALL RECYCLED WATER SERVICE(S) IN ACCORDANCE WITH SIZE(S) DEFINED ON THE DRAWINGS. LOCATIONS OF RECYCLED WATER METERS ARE SUBJECT TO APPROVAL BY DISTRICT'S INSPECTOR. 3/4-INCH HIGH LETTERS "RW" SHALL BE CHASED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL RECYCLED WATER SERVICE CROSSINGS.
- METER BOXES SHALL NOT BE PLACED WITHIN DRIVEWAYS OR SIDEWALKS WITHOUT THE DISTRICT'S PRIOR WRITTEN CONSENT.
- CONTRACTOR TO OFF ALL VALVE LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION OF VALVES.
- LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED AT THE TEE WHENEVER POSSIBLE.
- ALL DESIGN CHANGES TO THE RECYCLED WATER SYSTEM SHALL BE APPROVED BY THE DISTRICT REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE CHANGE.
- THE RECYCLED WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE OMWD STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPE, VALVES (CLOSED) AND APPURTENANCES.
- CONTRACT RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF WORK. THE PLANS MUST PROVIDE POST CONSTRUCTION VERIFICATION OF THE LOCATION AND ELEVATION OF PIPES AND APPURTENANCES.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE FOR THE PROJECT. CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE ONE-YEAR PERIOD FROM THE DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLIGENCE EXCEPTED.
- FOR ALL APPLICATIONS UTILIZING NON-HEX HEAD BOLTS, INCLUDING, BUT NOT LIMITED TO, T-BOLTS ON MECHANICAL JOINT FITTINGS, THE BOLTS AND NUTS SHALL BE COATED WITH A FLUOROPOLYMER CORROSION INHIBITING COATING. THE COATING SYSTEM SHALL BE TRIPAC 2000 BLUE COATING SYSTEM, OR DISTRICT APPROVED EQUAL. THE PROPOSED COATING SYSTEM SHALL BE APPROVED BY THE DISTRICT PRIOR TO INSTALLATION IN THE FIELD. THE COATING SYSTEM SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
- OMWD STANDARD DRAWINGS E-11 AND E-13, NOTE E-1, IS TO BE MODIFIED AS FOLLOWS: PROVIDE EXTENSION STEEL IF VALVE OPERATING NUT IS MORE THAN 2 FEET BELOW LOT.
- FOR PVC WITH RESTRAINED JOINTS, SEE NOTES ON SHEET K6.
- ALL VALVE BOX INSTALLATION FOR BURIED VALVES IN PUBLIC PAVED STREETS WITHIN THE COUNTY OF SAN DIEGO SHALL ADHERE TO THE COUNTY REGIONAL STANDARD DRAWINGS NO. W-12A AND W-12B FOR VALVE WELL COVER AND VALVE WELL FRAME AND ASSEMBLY.
- ALL VALVE BOX INSTALLATION FOR BURIED VALVES IN PUBLIC PAVED STREETS WITHIN THE COUNTY OF SAN DIEGO SHALL ADHERE TO THE COUNTY REGIONAL STANDARD DRAWINGS NO. W-12A AND W-12B FOR VALVE WELL COVER AND VALVE WELL FRAME & ASSEMBLY.



## OMWD POTABLE WATER NOTES

- POTABLE WATER WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND MATERIALS AS SPECIFIED IN THE MOST RECENT EDITION OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT (DISTRICT) STANDARD SPECIFICATIONS AND DRAWINGS FOR THE CONSTRUCTION OF WATER MAINS AND FACILITIES, INCLUDING ALL AMENDMENTS ADOPTED PRIOR TO THE DISTRICT APPROVAL DATE ON THESE PLANS DECEMBER 1987. CONTRACTOR SHALL HAVE A COPY OF THE STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- THE SUBMISSION AND REVIEW OF ALL SUBMITTALS (SHOP DRAWINGS, SIX SETS) AS REQUIRED BY THE STANDARD SPECIFICATIONS ARE TO BE ACCOMPLISHED PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE DISTRICT'S INSPECTOR.
- UNLESS OTHERWISE NOTED, CONNECTIONS TO EXISTING MAINS SHALL BE MADE DRY. THE TIME AND DURATION OF ANY SHUTDOWNS OF EXISTING MAINS SHALL BE SUBJECT TO APPROVAL BY THE DISTRICT. DISTRICT SHALL BE NOTIFIED TWO WEEKS MINIMUM IN ADVANCE OF ANY SHUTDOWN.
- CONTRACTOR SHALL COORDINATE WITH DISTRICT ALL ARRANGEMENTS FOR HIGH-LINING TEMPORARY SERVICES PRIOR TO SHUTDOWNS. NO SHUTDOWNS WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- CONTRACTOR SHALL REVIEW ALL PROPOSED TRENCH WORK WITH CAL/OSHA. A COPY OF EXEMPTION LETTER OR TRENCHING PERMIT, IF REQUIRED, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO CONSTRUCTION.
- NO WORK MAY BEGIN OR PROCEED WITHOUT DIRECTION OF DISTRICT'S INSPECTOR. CONTRACTOR SHALL NOTIFY THE DISTRICT INSPECTION DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF WORK TO ARRANGE FOR INSPECTION OF THE PROJECT.
- THE CONTRACTOR MUST CALL "DIG ALERT OF SOUTHERN CALIFORNIA" TO HAVE UNDERGROUND SERVICE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THIS CALL WILL BE MADE AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY WORK BEING PERFORMED IN PUBLIC RIGHT-OF-WAY. (DIG ALERT PHONE: 800-227-2600)
- ALL EXISTING FACILITIES WHICH MAY AFFECT PROJECT CONSTRUCTION, I.E., LINE CROSSINGS, LINE PARALLELING, OR PROPOSED CONNECTIONS SHALL BE FIELD VERIFIED BEFORE ANY CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL PER THE STANDARD SPECIFICATIONS THE APPROPRIATE BURIED UTILITY WARNING AND IDENTIFICATION TAPE ABOVE ALL PUBLIC WATER LINES INCLUDING WATER LATERALS LOCATED IN PUBLIC RIGHT-OF-WAY. WHEN ELEVATIONS AND GRADES ARE NOT SHOWN ON THE WATER MAIN PROFILE, TOP OF PIPE PROFILE IS 48-INCHES BELOW CENTERLINE OF FINISH GRADE OF STREET.
- ALL DEFLECTIONS (HORIZONTAL AND VERTICAL) SHALL BE MADE BY USE OF JOINT COUPLINGS WITH 4" MAXIMUM DEFLECTION PER COUPLING (2" PER JOINT), NO BENDING (CURVING) OF PIPE SHALL BE PERMITTED.
- MANUAL AIR RELEASES SHALL BE INSTALLED AT ALL HIGH POINTS AND BLOW-OFFS AT ALL LOW POINTS IN THE WATER MAIN PROFILE. PLACE MANUAL AIR RELEASES AND BLOW-OFFS WITHIN METER BOX AND LOCATE BEHIND CURB UNLESS OTHERWISE APPROVED BY DISTRICT'S REPRESENTATIVE. FIRE HYDRANTS MAY BE USED IN LIEU OF A MANUAL AIR RELEASE OR BLOW-OFF WHEN LOCATED AT OR NEAR HIGH OR LOW POINTS, AS APPROVED BY THE DISTRICT'S REPRESENTATIVE.
- INSTALL A MANUAL AIR SERVICE TO EACH LOT. METER TO BE LOCATED 5-FEET FROM A SIDE LOT LINE. A 3/4-INCH HIGH LETTER "M" SHALL BE CHASED IN TOP OF EXISTING CURB OR IMPRINTED IN NEW CURB AT ALL WATER SERVICE CROSSINGS.
- METER BOXES SHALL NOT BE PLACED WITHIN DRIVEWAYS OR SIDEWALKS WITHOUT THE DISTRICT'S PRIOR WRITTEN CONSENT.
- ALL WATER SERVICES FOR IRRIGATION, MULTIPLE RESIDENTIAL COMPLEXES, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL HAVE APPROVED BACKFLOW PREVENTION DEVICE ON CUSTOMER'S SIDE OF WATER METER.
- CONTRACTOR SHALL OFF ALL VALVE LOCATIONS AND PROVIDE WRITTEN DIMENSIONS TO INSPECTOR IMMEDIATELY UPON INSTALLATION OF VALVES.
- LINE VALVES, WHERE REQUIRED AT STREET INTERSECTIONS SHALL BE LOCATED ON THE PROLONGATION OF THE STREET RIGHT-OF-WAY WHENEVER POSSIBLE.
- FIRE HYDRANTS, AS APPROVED BY THE APPROPRIATE FIRE DISTRICT AND MEETING THE DISTRICT'S STANDARD SPECIFICATIONS, ARE TO BE INSTALLED AT LOCATIONS SPECIFIED BY THE FIRE DISTRICT.
- ALL DESIGN CHANGES TO THE WATER SYSTEM SHALL BE APPROVED BY THE DISTRICT REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE CHANGE.
- THE WATER SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THE PROCEDURES IN THE OMWD STANDARD SPECIFICATIONS. THE CLASS OF PIPE SHALL BE USED AS THE DESIGNATED WORKING PRESSURE FOR TESTING ALL PIPE, VALVES (CLOSED) AND APPURTENANCES.
- PIPELINES AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 1504H OF THE OMWD STANDARD SPECIFICATIONS PRIOR TO TIE-IN OR CONNECTION TO EXISTING SYSTEM FACILITIES. BACTERIOLOGICAL QUALITY TEST RESULTS SHALL CONFORM TO THE CRITERIA SPECIFIED IN THAT SPECIFICATION.
- CONTRACT RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF WORK. THE PLANS MUST PROVIDE POST CONSTRUCTION VERIFICATION OF THE LOCATION AND ELEVATION OF PIPES AND APPURTENANCES.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE FOR THE PROJECT. CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE ONE-YEAR PERIOD FROM THE DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLIGENCE EXCEPTED.
- FOR ALL APPLICATIONS UTILIZING NON-HEX HEAD BOLTS, INCLUDING, BUT NOT LIMITED TO, T-BOLTS ON MECHANICAL JOINT FITTINGS, THE BOLTS AND NUTS SHALL BE COATED WITH A FLUOROPOLYMER CORROSION INHIBITING COATING. THE COATING SYSTEM SHALL BE TRIPAC 2000 BLUE COATING SYSTEM, OR DISTRICT APPROVED EQUAL. THE PROPOSED COATING SYSTEM SHALL BE APPROVED BY THE DISTRICT PRIOR TO INSTALLATION IN THE FIELD. THE COATING SYSTEM SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
- OMWD STANDARD DRAWINGS E-11 & E-13, NOTE E-1, SHALL BE MODIFIED AS FOLLOWS: PROVIDE EXTENSION STEEL IF VALVE OPERATING NUT IS MORE THAN 2 FEET BELOW LOT.
- FOR PVC WITH RESTRAINED JOINTS, SEE NOTES ON SHEET K6.
- ALL VALVE BOX INSTALLATION FOR BURIED VALVES IN PUBLIC PAVED STREETS WITHIN THE COUNTY OF SAN DIEGO SHALL ADHERE TO THE COUNTY REGIONAL STANDARD DRAWINGS NO. W-12A AND W-12B FOR VALVE WELL COVER AND VALVE WELL FRAME & ASSEMBLY.

## OMWD SEWER NOTES

- UNLESS OTHERWISE INDICATED PURSUANT TO DISTRICT STANDARDS, ALL WORK SHALL BE DONE IN ACCORDANCE WITH:  
A.) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), LATEST APPROVED EDITION.  
B.) THE REGIONAL SUPPLEMENTAL AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.  
C.) SAN DIEGO REGIONAL STANDARD DRAWINGS (SRSD), LATEST EDITION.
- PIPE BEDDING, TRENCH BACKFILL AND TRENCH WIDTH SHALL BE PER SRSD S-4, FOR PIPE UP TO AND INCLUDING 15-INCH NOMINAL PIPE DIAMETER, UNLESS OTHERWISE NOTED. FOR PIPE GREATER THAN 15 INCHES IN NOMINAL PIPE DIAMETER, TRENCH WIDTH SHALL BE PER SPECIFICATIONS IN THE SSPWC, SECTION 306-1.2
- PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM WITH SSPWC, SECTION 306-1.2
- AFTER COMPLETION OF PIPE LAYING AND BEFORE FINAL PAVING, ALL MANLINE SEWERS, SEWER LATERALS AND STRUCTURES SHALL BE TESTED IN THE PRESENCE OF THE DISTRICT INSPECTOR. AIR PRESSURE TEST, PER SSPWC SECTION 306-1.4.4 AND MANDREL TEST PER SECTION 306-1.2.12 SHALL BE USED UNLESS OTHERWISE DIRECTED BY THE DISTRICT INSPECTOR. FINAL ACCEPTANCE OF SEWER LINES WILL BE SUBJECT TO INTERNAL TELEVISION INSPECTION. IT WILL BE THE PERMITEE'S RESPONSIBILITY TO PAY FOR THE COST OF THIS WORK.
- THE CONSTRUCTION OF PCC SEWER MANHOLES FOR PIPELINES UP TO AND INCLUDING 15-INCH NOMINAL DIAMETER SHALL CONFORM TO SRSD S-17. FOR SEWERS GREATER THAN 15 INCHES IN NOMINAL DIAMETER OR DEPTHS EXCEEDING 12 FEET, MANHOLES SHALL CONFORM TO SRSD S-2. POURED IN PLACE MANHOLES BASES SHALL BE A MONOLITHIC POUR FINISH COMPLETE AT THE TIME OF POUR.
- THE CONSTRUCTION OF 4-INCH SEWER LATERALS SHALL CONFORM TO SRSD S-13 FOR STANDARD SEWER LATERALS AND S-14 FOR DEEP-CUT SEWER LATERALS. SEWER LATERALS SHALL NOT DISCHARGE DIRECTLY INTO A SEWER MANHOLE. A SEWER CLEANOUT PER SRSD S-3 TYPE B, SHALL BE INSTALLED APPROXIMATELY TWO (2) FEET INSIDE THE PROPERTY LINE.
- THE CONSTRUCTION OF CUT-OFF WALLS SHALL BE IN ACCORDANCE WITH SRSD S-10 TYPE A ON ALL SEGMENTS HAVING A SLOPE OF 25% OR GREATER. CONSTRUCTION OF CONCRETE ANCHOR WALLS SHALL BE PER SRSD S-8.
- ALL SEWER MAINS AND SEWER LATERALS SHALL BE CONSTRUCTED WITH A MINIMUM OF 48 INCHES OF COVER, PROVIDED THAT THE INVERT OF THE SEWER LATERAL AT THE PROPERTY LINE IS ABOVE THE SOFFIT LINE OF THE SEWER MAIN.
- THE FINAL LOCATION AND ELEVATION OF SEWER LATERALS SHALL BE SHOWN ON THE ORIGINAL PLANS PRIOR TO ACCEPTANCE OF WORK.
- ALL DESIGN CHANGES OF THE SEWER SYSTEM SHALL BE APPROVED BY THE DISTRICT ENGINEER IN WRITING, PRIOR TO ACCEPTANCE OF WORK.
- FILL AREAS MUST BE COMPACTED TO 90% RELATIVE COMPACTION PRIOR TO ACCEPTANCE OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE DISTRICT'S INSPECTION DEPARTMENT 48 HOURS PRIOR TO THE BEGINNING OF WORK BY CALLING 760-753-6466, EXTENSION 149, TO ARRANGE FOR INSPECTION OF THE PROJECT.
- THE CONTRACTOR SHALL PURCHASE A PERMIT FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION WITHIN COUNTY RIGHT-OF-WAY. CONTRACT RECORD DRAWINGS MUST BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF WORK. THE PLANS MUST REFLECT POST CONSTRUCTION VERIFICATION OF THE PIPE LENGTHS AND INVERT ELEVATIONS.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF 1 YEAR AFTER THE DATE OF ACCEPTANCE FOR THE PROJECT. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE DISPLACED IN SO DOING, THAT MAY PROVE DEFECTIVE IN WORKMANSHIP AND/OR MATERIALS WITHIN THE 1 YEAR PERIOD FROM THE DATE OF ACCEPTANCE WITHOUT EXPENSE WHATSOEVER TO THE DISTRICT, ORDINARY WEAR AND TEAR, UNUSUAL ABUSE OR NEGLIGENCE EXCEPTED.
- THE CONTRACTOR MUST CALL "DIG ALERT OF SOUTHERN CALIFORNIA" TO HAVE UNDERGROUND SERVICE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THIS CALL WILL BE MADE AT LEAST 48 HOURS PRIOR TO ANY WORK BEING PERFORMED IN THE PUBLIC RIGHT-OF-WAY.
- GRAVITY SEWER PIPE DEEPER THAN 15 FEET SHALL CONSIST OF C-900 CLASS 150 PIPE.
- ALL SEWER MANHOLES NOT LOCATED WITHIN STREET PAVING SHALL BE RAISED TWELVE (12) INCHES ABOVE FINISHED GRADE, AND LOCKING MANHOLES COVERS SHALL BE INSTALLED.
- THE SEPARATION OF SEWER, WATER, AND RECLAIMED WATER SHALL CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES CRITERIA FOR SEPARATION OF WATER MAINS AND SANITARY SEWERS FOR BOTH VERTICAL AND HORIZONTAL CLEARANCES.
- THE CONTRACTOR SHALL MAINTAIN 12 INCHES VERTICAL SEPARATION BETWEEN THE TOP AND BOTTOM SURFACES OF CROSSING UTILITIES.

## LEGAL DESCRIPTION

THAT PORTION OF RANCHO SAN BERNARDO, ACCORDING TO MAP THEREOF RECORDED IN BOOK 2, PAGE 462 OF PATENTS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, TOGETHER WITH A PORTION OF SECTIONS 19, 20, 29, AND 30, TOWNSHIP 13 SOUTH, RANGE 2 WEST, SAN BERNARDO MERIDIAN ACCORDING TO THE OFFICIAL PLAT THEREOF, ALL AS SHOWN ON RECORD OF SURVEY MAP NO. 10491 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY APRIL 10, 1986. ALL IN THE COUNTY OF SAN DIEGO.

## ASSESSOR'S PARCEL NUMBERS

678-080-43 678-241-05  
678-230-13

## BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE NAD 83, ZONE 6, GRID BEARING POINT NOS 390 AND 389 AS SAID STATIONS ARE PUBLISHED IN THE SAN DIEGO HORIZONTAL CONTROL BOOK, I.E. N142844" QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.  
THE COMBINED SCALE FACTOR AT STATION NO. 399 IS 0.9999448  
GRID DISTANCE=GROUND DISTANCE X COMBINED SCALE FACTOR

## OWNER'S 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 COMPLETION OF THE IMPROVEMENTS.  
I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING COUNTY RIGHT-OF-WAY WITHIN 90 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

193 ACRE PROPERTY: 4S KELWOOD GENERAL PARTNERSHIP  
A CALIFORNIA GENERAL PARTNERSHIP  
10815 RANCHO BERNARDO ROAD, SUITE 310  
SAN DIEGO, CALIF 92127  
(658) 674-1300

MICHAEL L. RUST, VICE PRESIDENT DATE

## 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 PROFESSION CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS, IN ASSUMING RESPONSIBLE CHARGE I ACCEPT FULL RESPONSIBILITY FOR THE ENTIRE DESIGN OF THIS PROJECT AS SHOWN ON THESE PLANS.  
I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO AND OLIVENHAIN MUNICIPAL WATER DISTRICT, OR THEIR AGENTS, IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

NOLTE AND ASSOCIATES  
15090 AVENUE OF SCIENCE, STE. 101  
SAN DIEGO, CA 92128  
(658) 385-0500



KENNETH W. MELVIN RCE 59105  
EXP DATE 6/30/07

PRIOR TO ACCEPTANCE OF IMPROVEMENTS AND RELEASE OF SECURITY BY THE COUNTY, THE FOLLOWING PUBLIC UTILITY DISTRICTS WILL RELOCATE THEIR FACILITIES AND OUTLAMP THE EXISTING EASEMENTS NOTED:  
SOGAE—FILE NO. 69-119106, RECORDED JULY 1, 1989  
FILE NO. 90-217081, RECORDED APRIL 23, 1990  
FILE NO. 90-258181, RECORDED MAY 11, 1990  
FILE NO. 90-228115, RECORDED APRIL 6, 1990  
PACIFIC BELL—FILE NO. 82-128994, RECORDED MARCH 27, 1992  
FILE NO. 90-042465, RECORDED JANUARY 26, 1990  
FILE NO. 90-190812 THRU 90-190814, RECORDED APRIL 6, 1990  
OLIVENHAIN MUNICIPAL WATER DISTRICT—FILE NO. 88-630163, RECORDED DEC. 9, 1989

**SAN DIEGO COUNTY WATER AUTHORITY**  
REVIEWED BY: [Signature] DATE: 12-17-03  
Valid for 18 months from date of signature  
**WATER AGENCY**  
OLIVENHAIN MUNICIPAL WATER DISTRICT  
RECYCLED WATER SYSTEM APPROVAL  
(OMWD W.O.# 5558301)  
Approved by: BOYLE ENGINEERING CORPORATION  
DISTRICTS CONSULTING ENGINEER

**OLIVENHAIN MUNICIPAL WATER DISTRICT**  
SEWER SYSTEM APPROVAL  
(OMWD W.O.# 558301)  
Approved by: BOYLE ENGINEERING CORPORATION  
DISTRICTS CONSULTING ENGINEER  
THOMAS R. FRANK DATE: 12/16/03  
Note: Signature Expires 2 Years After Date

**OM.W.D.**  
APPROVED CHANGES  
NO. DESCRIPTION APPROVED DATE  
1. [Signature] 12/16/03  
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**NOLTE**  
BEYOND ENGINEERING  
15090 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
658.385.0500 TEL. 658.385.0493 FAX. WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**  
No. Description Approved by Date  
1. ADD OMWD CHANGE BLOCK [Signature] 10/11/04  
2. ADD WATER NOTES, REV TOT SHTS. [Signature] 12/16/03  
3. RECORD PLAN [Signature] 12/16/03  
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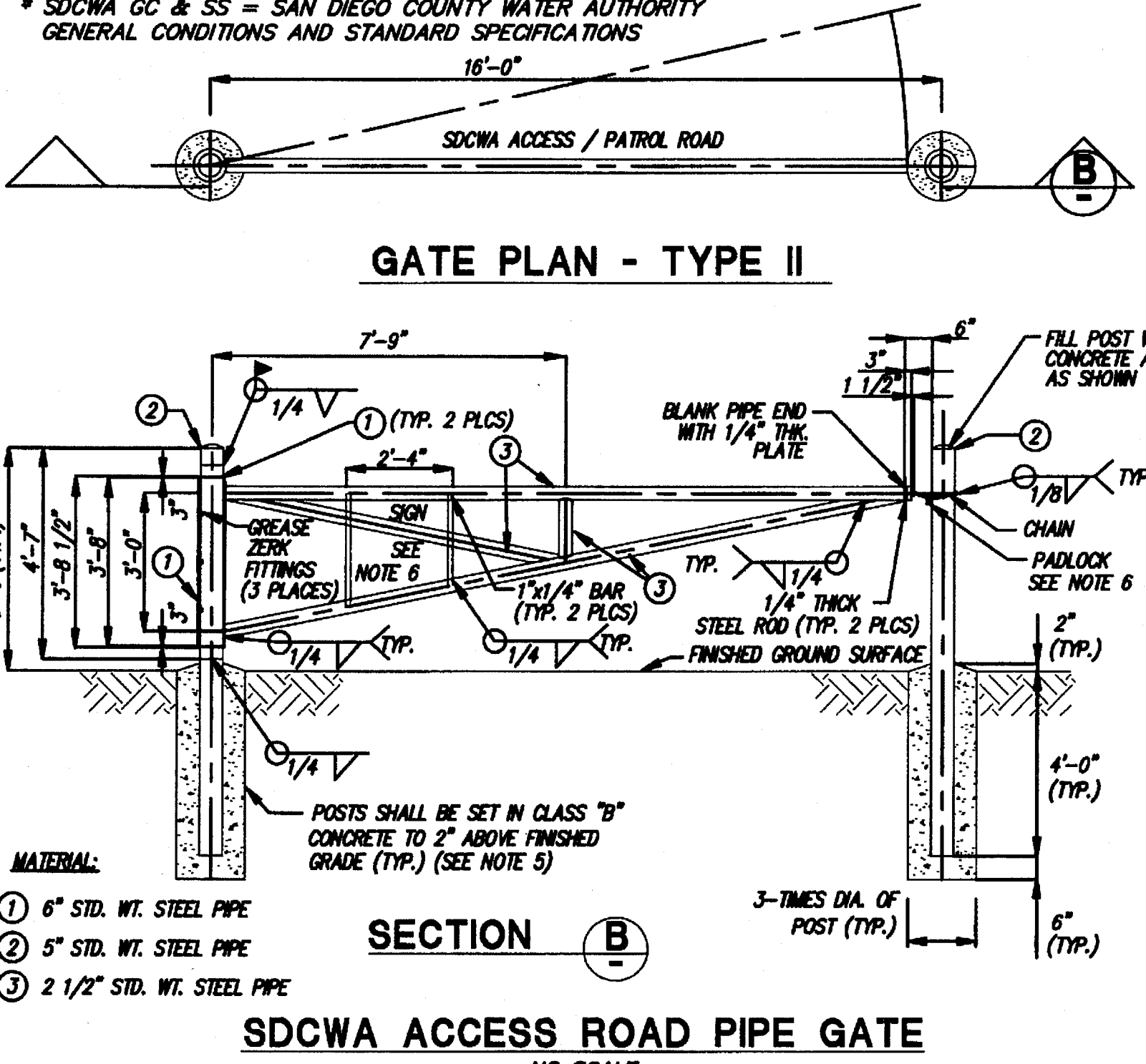
# COUNTY OF SAN DIEGO TRACT NO. 5229-1

DESCRIPTION	SDRS OR OIWD STANDARD DWG	SYMBOL
EXISTING SPOT ELEVATION		x 362.54
EXISTING CONTOUR		---360---
EXISTING STORM DRAIN		---SD---
EXISTING WATER MAIN		---W---
EXISTING SEWER MAIN		---S---
EXISTING ELECTRICAL SERVICE CONDUIT		---E---
EXISTING TELEPHONE SERVICE CONDUIT		---T---
EXISTING GAS SERVICE		---G---
EXISTING STREET LIGHT		---L---
EXISTING ELECTRICAL TRANSFORMER		---TR---
EXISTING AC PAVEMENT		---AC---
EXISTING LOT / PARCEL		LOT 26
EXISTING OVERHEAD LINES		O/H
PROPOSED RIGHT-OF-WAY		R/W
SUBDIVISION BOUNDARY		---
SPOT ELEVATION		362.54
PROPERTY LINE		---
PROPOSED LOT		35
FLOWLINE ELEVATION		FL 545.17
INVERT ELEVATION		IE 536.22
RIM ELEVATION		---
CHAIN LINK FENCE	M-6	---X---
A.C. WALK		---
A.C. PAVT - TYPE AS SHOWN ON PLANS		---
TYPE G 6" CURB AND GUTTER	G-2, G-10	---
TYPE H 6" CURB AND GUTTER	G-2, G-10	---
TYPE B-2 MEDIAN CURB AND GUTTER	G-8, G-10	---
TYPE B-1 MEDIAN CURB	G-8, G-10	---
TYPE A 6" AC DIKE	G-5	---
4" PCC SIDEWALK	G-7, G-9, G-10	---
MASONRY RETAINING WALL	C-1, C-2, C-7, C-8	---
**STREET MONUMENT	M-10, M-13	---
CONCRETE CROSS GUTTERS	G-12	---
PEDESTRIAN RAMP W/ TRUNCATED DOME	G-27, G-32, DET SH 3	---
DRIVEWAY	G-14, G-15, G-16	---
STREET LIGHT	E-1, E-2, E-33 OR DETAIL THIS SHEET	---
STREET SIGN	DS-13	---
BARRICADE OR GUARD POST	M-9	---
METAL BEAM GUARD RAILING	M-31 TO M-41	---
GUARD POST	OMND STD E-1.4	---
SAWCUT EXIST PAVEMENT		---
TRENCH RESURFACING TYPE A	G-24	---
CLEAR SPACE MARKERS	DS-16	---
DEMOUNTABLE POST	M-16	---
PAVEMENT CUTOFF WALL	G-22	---
WATER MAIN	OMND STD E-3.1	---
1" WATER SERVICE	OMND STD B-1.1	---
1 1/2" WATER SERVICE	OMND STD B-1.4	---
2" WATER SERVICE	OMND STD B-1.6	---
RECYCLED WATER MAIN	OMND STD E-3.1	---
1 1/2" RECYCLED WATER SERVICE	OMND STD B-1.3, B-1.4	---
2" RECYCLED WATER SERVICE	OMND STD B-1.3, B-1.4	---
3" RECYCLED WATER SERVICE (CAPPED)	OMND STD B-1.7	---
4" PVC CL315 IRRIGATION SLEEVE PER LANDSCAPE PLANS		---
6" PVC CL315 IRRIGATION SLEEVE PER LANDSCAPE PLANS		---
GATE VALVE	OMND STD E-1.2, E-1.3	---
1" MANUAL AIR RELEASE	OMND STD A-2.1, A-2.2	---
2" MANUAL AIR RELEASE	OMND STD A-2.3, A-2.4	---
2" BLOW OFF ASSEMBLY	OMND STD A-1.1, A-1.2	---
4" BLOW OFF ASSEMBLY	OMND STD A-1.3	---
PUSH-ON TEE	OMND STD D-3.3, D-3.4	---
CROSS		---
PUSH-ON X FLANGE TEE	OMND STD D-3.3, D-3.4	---
FLANGE TEE W/ ADAPTER		---
REDUCER	OMND STD D-3.1, D-3.2	---
BEND	OMND STD D-3.5, D-3.6	---
FIRE HYDRANT ASSEMBLY	OMND STD C-1.1, C-1.2	---
GUARD POSTS	OMND STD E-1.4	---
END CAP ASSEMBLY	OMND STD D-3.3, D-3.4	---
ANODE TEST STATION	OMND STD F-9F-10F-11F-12F-14	---
SEWER MAIN	S-4, S-19	---
SEWER PLUG		---
* MANHOLE, SEWER >15" AND DEPTH >12'	S-2, M-3	---
* MANHOLE, SEWER <15" AND DEPTH <12'	S-17, M-3	---
SEWER CLEANOUT	S-3	---
END CAP ASSEMBLY	OMND STD D-3.3, D-3.4	---
FORCEMAIN CLEANOUT	S-16	---
SEWER SERVICE W/ BACKFLOW PREVENTER		---
4" SEWER LATERAL	OMND STD G-14, G-16	---
FORCE MAIN	S-4, S-19	---
SIDEWALK UNDERDRAIN PIPE	D-27	---
CUTOFF WALL	S-10	---
PIPE COLLAR	D-62	---
CONCRETE LUG	D-63	---
PIPE BEDDING AND TRENCH BACKFILL	D-60	---
SIGN		---
TRAFFIC SIGNAL POLE		---
ELEC CONDUIT		---
ELECTRICAL TRANSFORMER	M-15	---
ELECTRICAL PULL BOX		---
ELECTRICAL HANDHOLE		---
TELEPHONE CONDUIT		---
TELEPHONE RISER		---

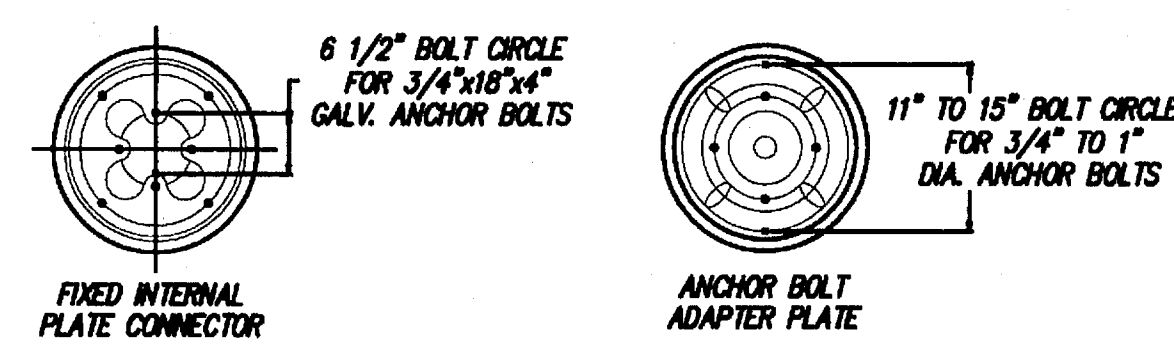
## PIPE GATE NOTES

- GATE TO SWING AWAY FROM PUBLIC ROAD. LOCATION TO BE DETERMINED IN FIELD.
- LENGTH AND FINAL ANGLE OF DIAGONAL BRACE SHALL BE DETERMINED BASED ON SLOPE OF FINISHED GRADE.
- GATE POSTS SHALL BE PLUMB.
- ALL STRUCTURAL PIPE MEMBERS SHALL BE HOT-DIPPED GALVANIZED.
- CONCRETE FOR POSTS SHALL BE CLASS "B", 3000 PSI AT 28-DAYS, PER SDCWA GC & SS\*
- PADLOCK AND SIGN TO BE FURNISHED BY SDCWA.
- PAINT PER SDCWA GC & SS\*
- NEED ONE CUBIC YARD OF CONCRETE PER GATE POST.

\* SDCWA GC & SS = SAN DIEGO COUNTY WATER AUTHORITY GENERAL CONDITIONS AND STANDARD SPECIFICATIONS



- MATERIAL:
- 1 6" STD. WT. STEEL PIPE
  - 2 5" STD. WT. STEEL PIPE
  - 3 2 1/2" STD. WT. STEEL PIPE



ANCHOR BASE				
EXTERNAL BASEPLATE	INTERNAL BASEPLATE	SHAFT HEIGHT	LAMP CTR (NOMINAL)	HEIGHT (LBS)
26CT14	26ST14	14'6"	16'0"	800

EMBEDDED				
ORDER NUMBER	SHAFT DEPTH	SHAFT HEIGHT	LAMP CTR (NOMINAL)	HEIGHT (LBS)
26ET14	4'0"	14'6"	16'0"	570

AMERSON VICTORIAN TRADITIONAL SERIES LUMINAIRE No. 1901-21 STREET LIGHT - 150 WATT HPS

## WORK TO BE DONE

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR IMPROVEMENT OF SUBDIVISION STREETS AND STANDARDS REFERENCE DRAWINGS, AND OLIVENHAIN MUNICIPAL WATER DISTRICT STANDARD SPECIFICATIONS.

## STANDARD DRAWINGS

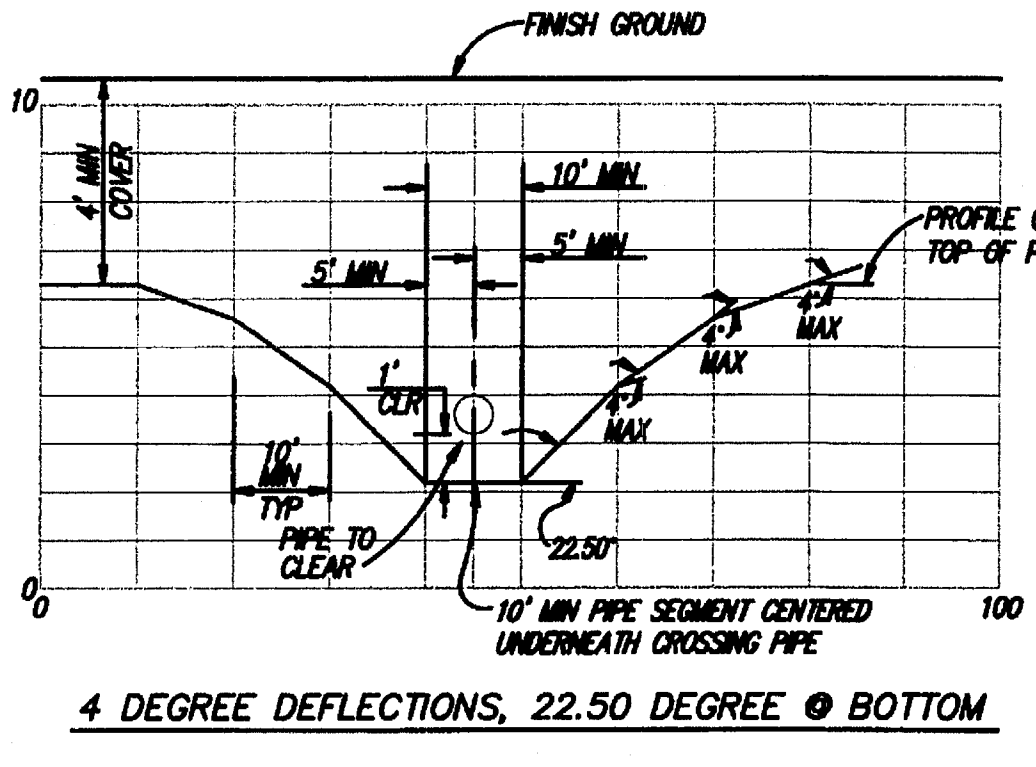
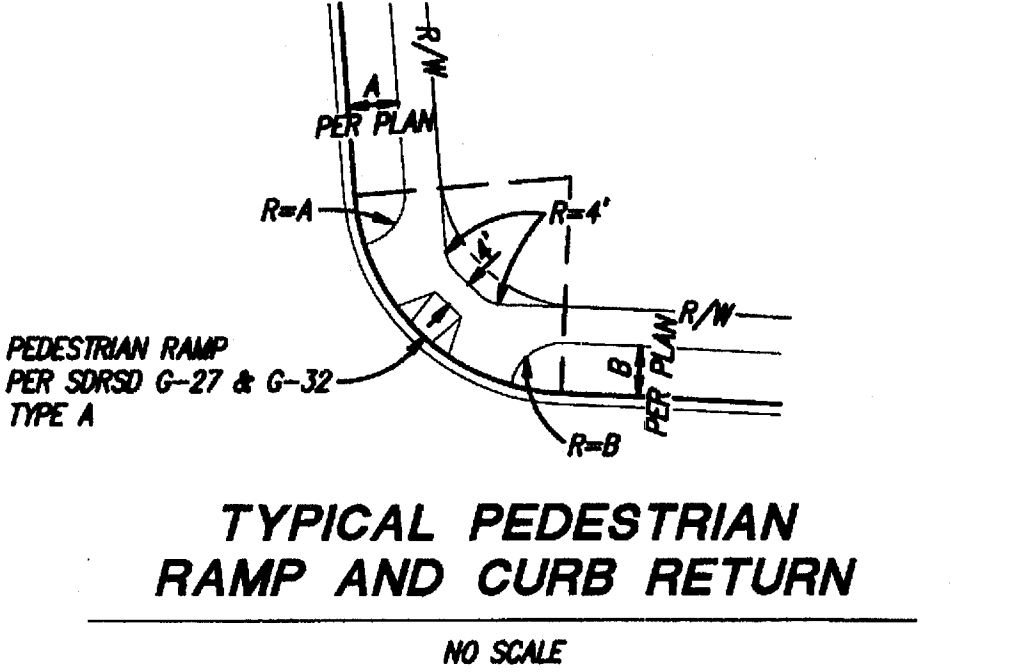
- SAN DIEGO REGIONAL STANDARD DRAWINGS APRIL 2003.
- STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (JULY 1999).
- OLIVENHAIN MUNICIPAL WATER DISTRICT REQUIREMENTS AS DEFINED ON SHEET 1 (PER OMND POTABLE WATER, RECYCLED WATER, AND SEWER NOTES).

## STANDARD SPECIFICATIONS

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2003 EDITION) INCLUDING THE REGIONAL SUPPLEMENT AMENDMENTS AND THE AMENDMENT ERRATA FOR THE SUPPLEMENT, SEPTEMBER 2001.
- CALIFORNIA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES," (1996 EDITION).
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS (JULY 1999).
- OLIVENHAIN MUNICIPAL WATER DISTRICT REQUIREMENTS AS DEFINED ON SHEET 1 (PER OMND POTABLE WATER, RECYCLED WATER, AND SEWER NOTES).

## SAN DIEGO COUNTY WATER AUTHORITY NOTES

- THE SHOWN LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL STRUCTURES, WHETHER SHOWN HEREIN OR NOT, AND PROTECTING THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. HAND DIG FOUNDATIONS UNTIL CLEAR OF SUBSTRUCTURES, IF REQUIRED, TO PROTECT UTILITIES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE SAN DIEGO COUNTY WATER AUTHORITY (AUTHORITY) A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK NEAR AUTHORITY FACILITIES. NOTICE: ALL AUTHORITY PIPELINES ARE "UNDERGROUND INSTALLATIONS." FOR LOCATION OF PIPELINES AND APPURTENANCES CONTACT THE AUTHORITY, TELEPHONE: (858) 522-6900.
- THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY ALL WORK WITHIN AUTHORITY EASEMENTS OR IN CLOSE PHYSICAL PROXIMITY TO AUTHORITY FACILITIES. STAND-BY PERSONNEL MAY BE REQUIRED DURING ALL PHASES OF WORK. STAND-BY REQUIREMENTS WILL BE AT THE DISCRETION OF THE AUTHORITY. AUTHORITY STAND-BY PERSONNEL SHALL BE REQUIRED WHEN ANY EXCAVATION IS DONE WITHIN THE AUTHORITY'S RIGHT OF WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING AUTHORITY FACILITIES AS A RESULT OF ITS OPERATIONS AND WORK, AND SHALL BE LIABLE FOR THE COST OF ANY REPAIR WORK RESULTING FROM ITS ACTIVITIES.
- DIGALERT: THE LAW REQUIRES YOU TO CONTACT UNDERGROUND SERVICE ALERT TWO WORKING DAYS IN ADVANCE OF DIGGING OR EXCAVATING ON A PUBLIC RIGHT OF WAY OR EASEMENT. TELEPHONE: 1-800-227-2600.
- LOCATION AND ELEVATION OF AQUEDUCTS IS SUBJECT TO FIELD VERIFICATION AND SHALL BE CONFIRMED BY THE DESIGN ENGINEER OR CONTRACTOR BY FIELD MEASUREMENTS IN THE PRESENCE OF AN AUTHORITY INSPECTOR PRIOR TO COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE AUTHORITY'S ATTENTION PRIOR TO PROCEEDINGS.
- ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A STATE OF CALIFORNIA LICENSED SOILS ENGINEER AND IN ACCORDANCE WITH THE RECOMMENDED SAN DIEGO COUNTY STANDARDS AND SPECIFICATIONS.
- ALL FILL MATERIAL SHALL BE COMPACTED TO 90% OR BETTER AND REPORTS SUBMITTED TO THE AUTHORITY PRIOR TO THE ACCEPTANCE OF WORK. REFER TO SDCWA GC & SS SECTION 02200 EARTHWORK.
- ALL FILL MATERIAL PLACED BETWEEN THE AUTHORITY'S PIPELINES AND ANY NEW UTILITY CROSSING SHALL BE SAND, 3/4-INCH GRAVEL OR CEMENT SLURRY.
- AT THE COMPLETION OF THE GRADING OPERATIONS, AN AS-GRADED SOILS AND GEOLOGICAL REPORT SHALL BE PREPARED AND SUBMITTED TO THE AUTHORITY WITHIN 15 DAYS OF THE COMPLETION OF GRADING.
- THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING: SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE AUTHORITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE SAN DIEGO COUNTY WATER AUTHORITY WILL NOT BE RESPONSIBLE FOR THE ENFORCEMENT OF SAFETY MEASURES AND REGULATIONS. THE CONTRACTOR OR DESIGN ENGINEER SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS DURING CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE THAT ANY MONUMENT OR BENCH MARK WHICH IS DISTURBED OR DESTROYED SHALL BE RE-ESTABLISHED AND REPLACED BY A REGISTERED CIVIL ENGINEER WHO IS ALLOWED TO PRACTICE SURVEYING OR A LICENSED LAND SURVEYOR AND A CORNER RECORD, CERTIFICATE OF CORRECTION OR RECORD OF SURVEY FILED AS REQUIRED BY THE LAND SURVEYOR'S ACT. THE CONTRACTOR SHALL FURNISH TO THE AUTHORITY PROOF OF RECORDING.
- THE CONTRACTOR SHALL FURNISH TO THE AUTHORITY AS-BUILT PLANS FOR ALL IMPROVEMENTS WITHIN AUTHORITY RIGHTS OF WAY.
- THE CONTRACTOR SHALL REPAIR ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS WITHIN THE AUTHORITY'S RIGHTS OF WAY WITH IMPROVEMENTS OF EQUAL OR SUPERIOR QUALITY.
- THE AUTHORITY SHALL RECEIVE THE CONSTRUCTION SCHEDULE 48 HOURS IN ADVANCE OF START OF CONSTRUCTION. WORK DONE WITHOUT AUTHORITY INSPECTION SHALL BE SUBJECT TO REMOVAL. THE PHONE NUMBER TO SCHEDULE INSPECTION WITHIN THE AUTHORITY'S RIGHT OF WAY IS (858) 522-6900.
- APPROVAL OF PLANS BY THE AUTHORITY DOES NOT CONSTITUTE RESPONSIBILITY FOR ACCURACY OF INFORMATION NOR LOCATION OF OTHER EXISTING FACILITIES.
- EXCAVATION WILL NOT BE ALLOWED UNDERNEATH AUTHORITY PIPELINES UNLESS A PIPE SUPPORT SYSTEM IS DESIGNED BY A REGISTERED CIVIL ENGINEER. SUPPORT DESIGN MUST BE SUBMITTED AND APPROVED BY THE AUTHORITY PRIOR TO EXCAVATION.
- ALL UTILITIES MUST CROSS AUTHORITY EASEMENT AND PIPELINES AT A PERPENDICULAR ANGLE. NO PARALLEL UTILITIES ARE ALLOWED IN AUTHORITY EASEMENT. SEWER OR RECLAIMED WATER LINE MATERIALS MUST MEET STATE OF CALIFORNIA DEPARTMENT OF HEALTH STANDARDS COMPLETELY CROSSING EASEMENT. ALL UTILITIES TO HAVE A MINIMUM 18-INCHES OF EXTERNAL CLEARANCE TO ANY AUTHORITY PIPELINE. KEEP ALL VALVE STRUCTURES, PULL BOXES, VALVES, CONTROLLERS, BACKFLOW PREVENTERS, MANHOLES, TRANSFORMERS, HEADWALLS, ETC., OUTSIDE OF EASEMENT.
- THE CONTRACTOR SHALL RELOCATE CATHODIC PROTECTION TEST STATIONS IN ACCORDANCE WITH THE SAN DIEGO COUNTY WATER AUTHORITY STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT THE SAN DIEGO COUNTY WATER AUTHORITY TWO WEEKS PRIOR TO COMMENCEMENT OF WORK IN ORDER TO SCHEDULE THE RELOCATION PROCEDURES AND INSPECTION. PROVIDE TWO-WEEK NOTICE TO THE SAN DIEGO COUNTY WATER AUTHORITY (AUTHORITY) CORROSION STAFF OF THE SPLICE WORK. ASSEMBLE THE FOLLOWING MATERIALS ONSITE BEFORE THE AUTHORITY ARRIVES: 600 FEET OF #8 AWG HMWPE CABLE, 300 FEET OF #8 AWG THIN YELLOW WIRE, 15 EACH TWO PART EPOXY HIGH STRENGTH SPLICE KITS (3M SCOTCHCAST RESIN SPLICING KIT #82-B1 OR EQUAL), 6 REFERENCE ELECTRODES, AND MATERIALS FOR A CONCRETE COLLAR. CALL BRENDAN SHEEHAN (858-522-6810), JOHN GALLEHER (858-522-6839), OR ERIC HOLM (760-233-3276) AT THE AUTHORITY TO ARRANGE FOR SPLICING. THE AUTHORITY WILL SPLICE THE CABLES AND RETEST THEM.
- ALL ENCROACHMENTS SHALL BE INSTALLED AND MAINTAINED IN A SAFE AND SANITARY CONDITION AT THE SOLE COST, RISK AND RESPONSIBILITY OF THE PROPERTY OWNER AND SUCCESSORS IN INTEREST WITHOUT EXCEPTION, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES TO OR ARISING FROM THE ENCROACHMENTS CAUSED BY THE AUTHORITY'S MAINTENANCE OR CONSTRUCTION REQUIREMENTS.



**RECORD PLAN**  
 Paul J. Cervantes 7/24/03  
 PRINTED NAME: PAUL J. CERVANTES DATE: 7/24/03  
 RCE NO. 67542 EXP. 6/30/09

**PRIVATE CONTRACT**  
 SHEET 3 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS  
 PLANS FOR THE IMPROVEMENT OF  
**45 RANCH**  
 LEGEND AND DETAILS  
 SAN DIEGO COUNTY TRACT 5229-1

PERMITS	
HABITAT LOSS PERMIT NO.	N/A
TENTATIVE MAP NO.	TM 5229-1
N.O.I. NO.	9375317382
REZONE PERMIT NO.	95-001
MAJOR USE PERMIT NO.	P87-0361K3
GRADING PERMIT NO.	L-14244

BENCH MARK	
DESCRIPTION:	3" BRASS DISK IN MONUMENT WELL STAMPED
LOCATION:	LS 5894
RECORD FROM:	CITY OF SAN DIEGO (PT. NO. 389, R.O.S. 14482)
ELEVATION:	622.05
DATUM:	MGVD 29 (FEET)

Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER  
 Approved: [Signature]  
 CIVIL ENGINEER  
 Checked by: [Signature]  
 DATE: 12-11-03  
 APPROVAL DATE: 2/16/04  
**TM 5229-1**

SAN DIEGO COUNTY WATER AUTHORITY  
 REVIEWED BY: [Signature]  
 John Economides  
 Director of Engineering  
 Valid for 18 months from date of signature  
 Date: 12-17-03

**NOLTE**  
 BEYOND ENGINEERING  
 15090 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 858.385.0500 TEL. 858.385.0400 FAX WWW.NOLTE.COM

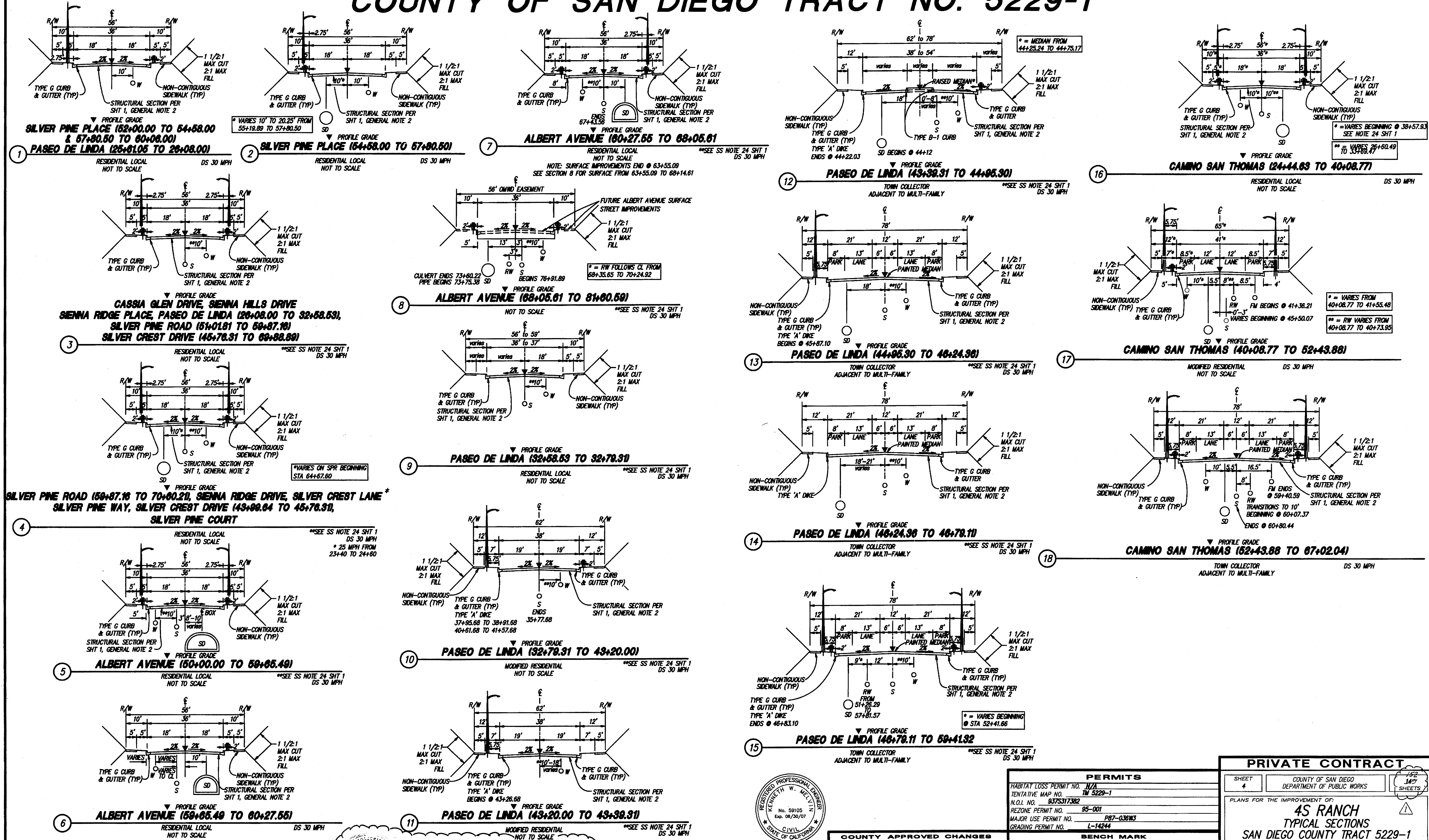
COUNTY APPROVED CHANGES			
No.	Description	Approved by	Date
1	REVISE PEDESTRIAN RAMPS IN LEGEND, REVISE TOTAL SHEETS, THEN RECORD PLAN	RES	8/11/03

PLOT DATE: 11/20/03  
 PLOT TIME: 10:03 AM  
 PLOTTER: HPGL  
 PLOTTER MODEL: HPGL  
 PLOTTER DRIVER: HPGL  
 PLOTTER LANGUAGE: HPGL  
 PLOTTER COMMANDS: HPGL  
 PLOTTER STATUS: OK  
 PLOTTER ERROR: NONE  
 PLOTTER MESSAGE: PLOTTING VIEW NAME: PLOTTING VIEW  
 PLOTTER COMMANDS: HPGL  
 PLOTTER STATUS: OK  
 PLOTTER ERROR: NONE  
 PLOTTER MESSAGE: PLOTTING VIEW NAME: PLOTTING VIEW

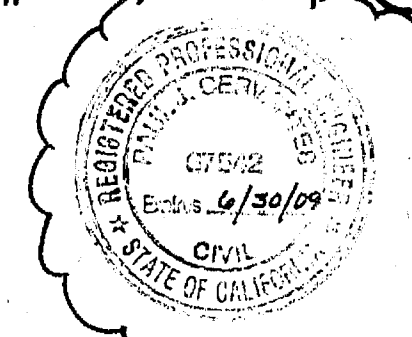
ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500



# COUNTY OF SAN DIEGO TRACT NO. 5229-1

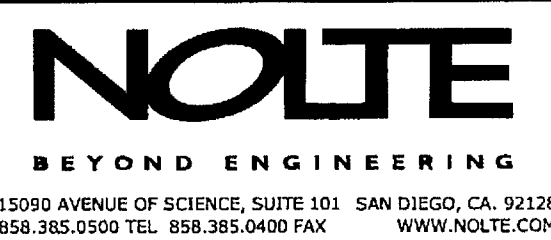


PLOT DATE: 11/28/03  
 SERVER: S:\S1  
 PATH: M:\S00055\Coord\m\m\11/28/03



**RECORD PLAN**

Paul Cervantes 8/11/08  
 PRINTED NAME PAUL J. CERVANTES DATE  
 RCE No. 67542 EXP. 6/30/09



No.	Description	Approved by	Date
1	REVISE TOTAL SHEETS, THEN RECORD PLAN	RS	8/11/08
2			

COUNTY APPROVED CHANGES		BENCH MARK	
DESCRIPTION:	3" BRASS DISK IN MONUMENT WELL STAMPED	DESCRIPTION:	LS 5894
LOCATION:	C/L INTERSECTION THORNHILL RD & CT	LOCATION:	CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14482)
RECORD FROM:	622.05	ELEVATION:	622.05
DATE:	11/26/03	DATUM:	NGVD 29 (FEET)
APP. NO.:	S00355		

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
 DEPARTMENT OF PUBLIC WORKS  
 SHEET 4 OF 345 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**4S RANCH**  
 TYPICAL SECTIONS  
 SAN DIEGO COUNTY TRACT 5229-1

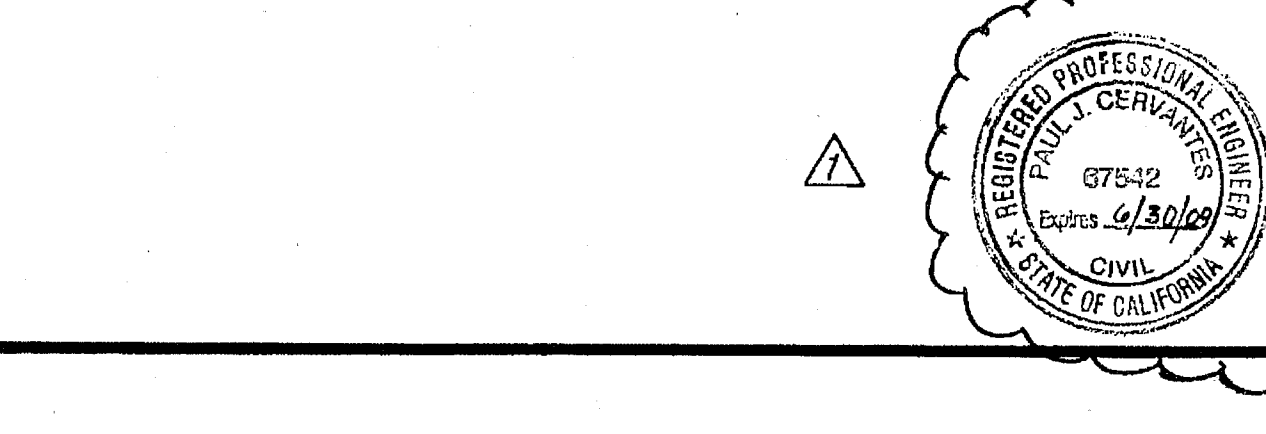
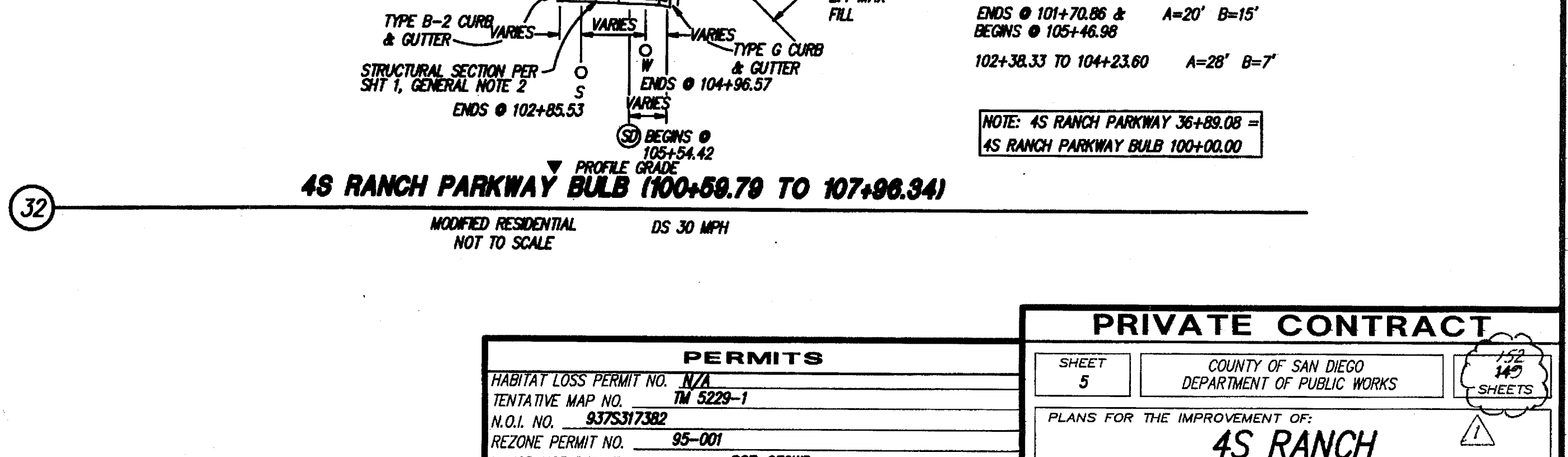
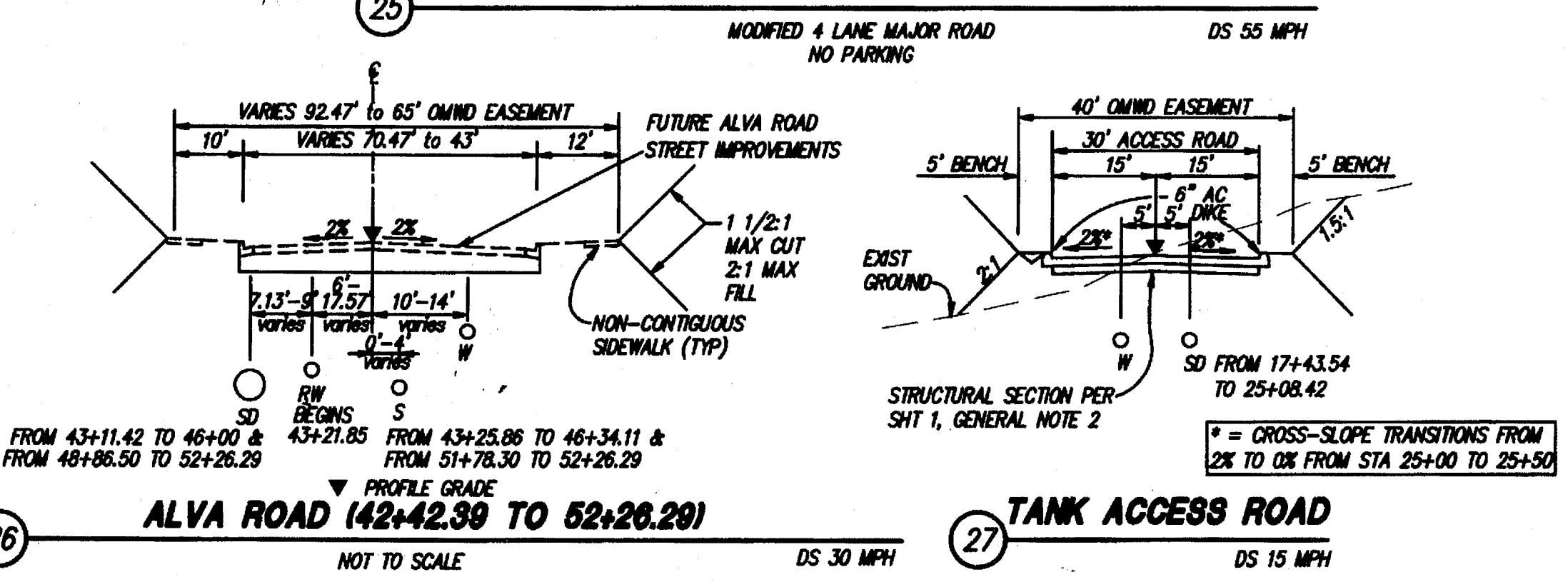
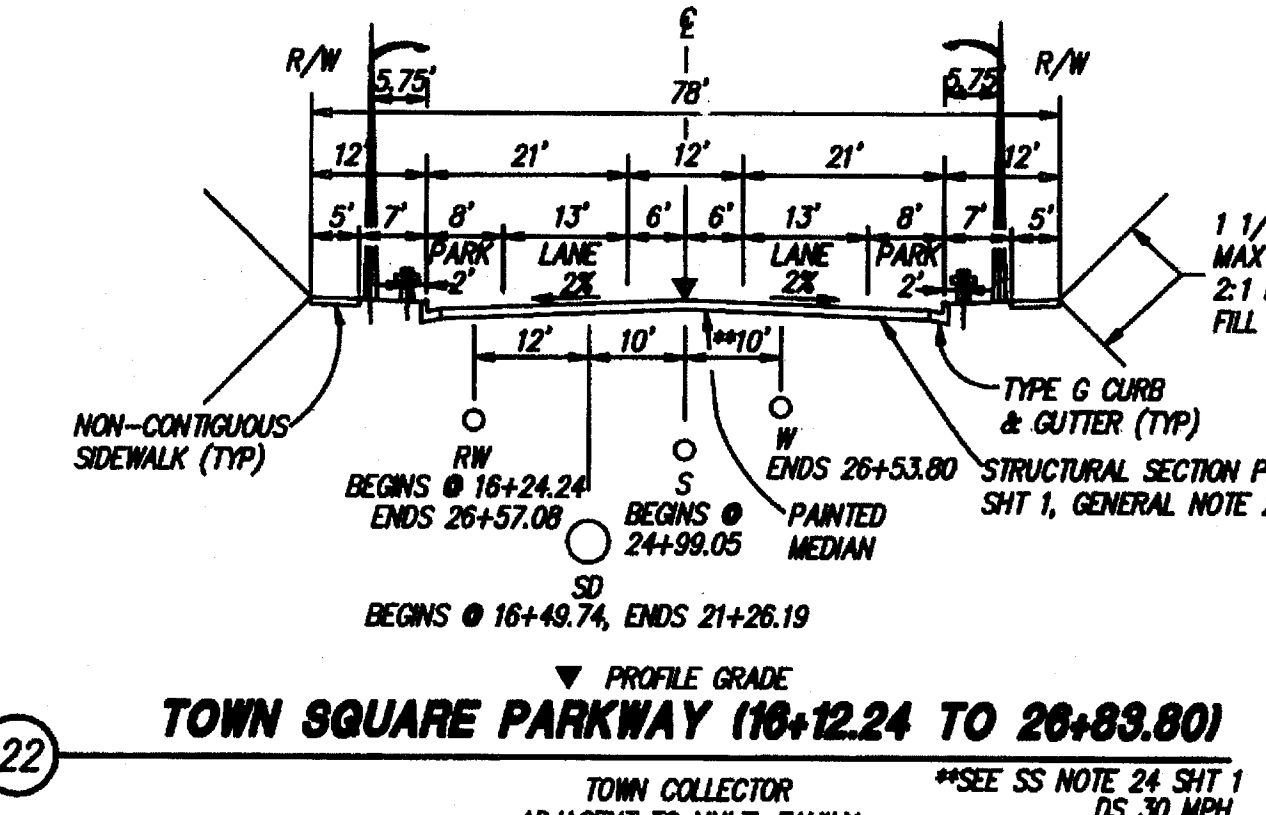
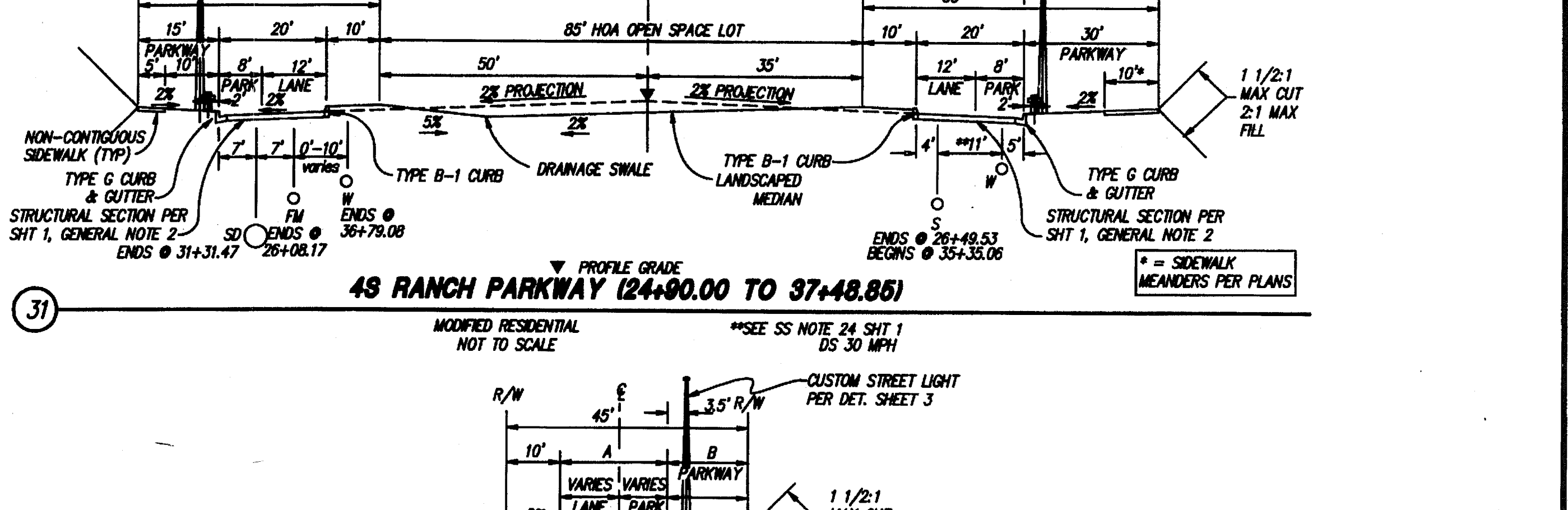
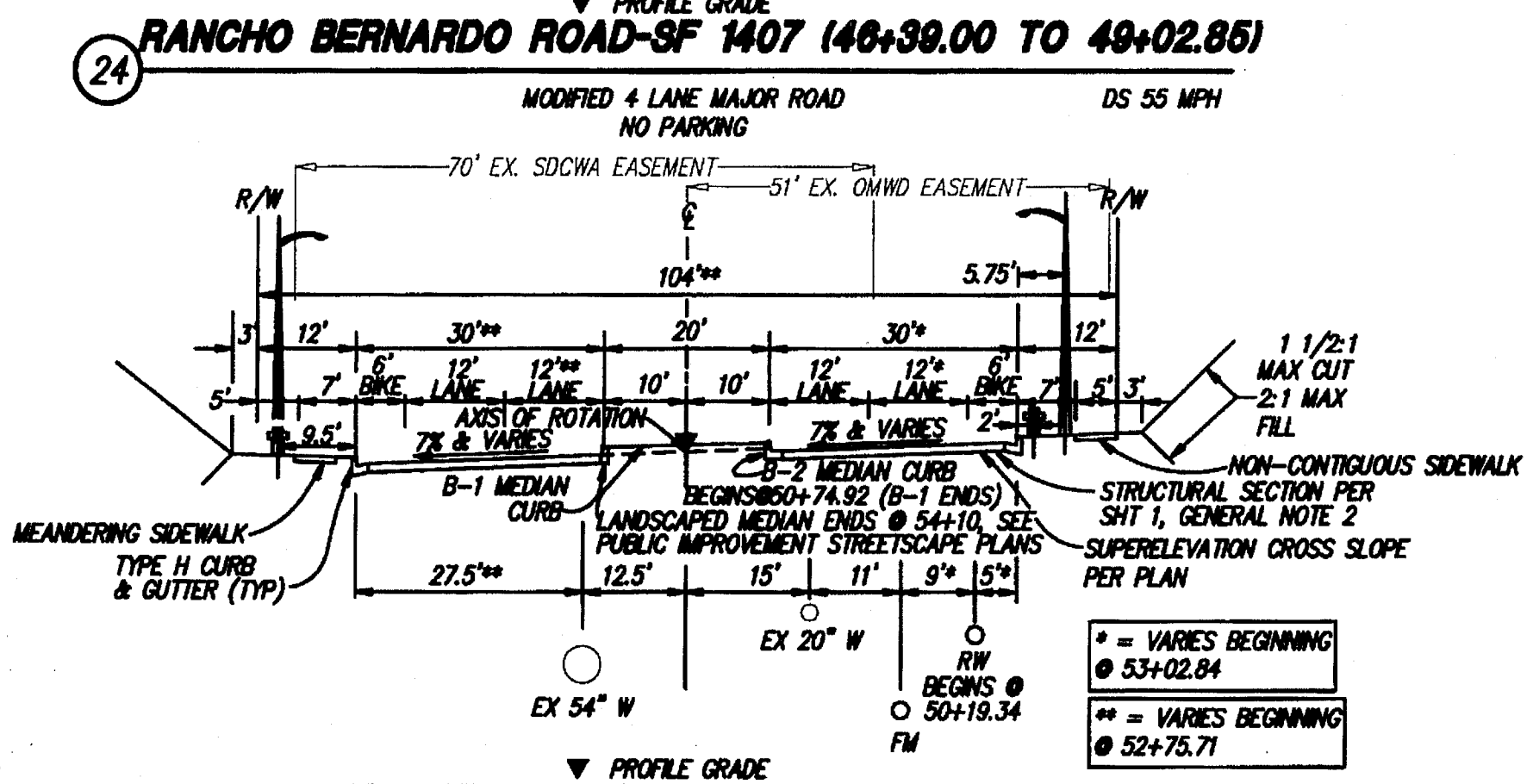
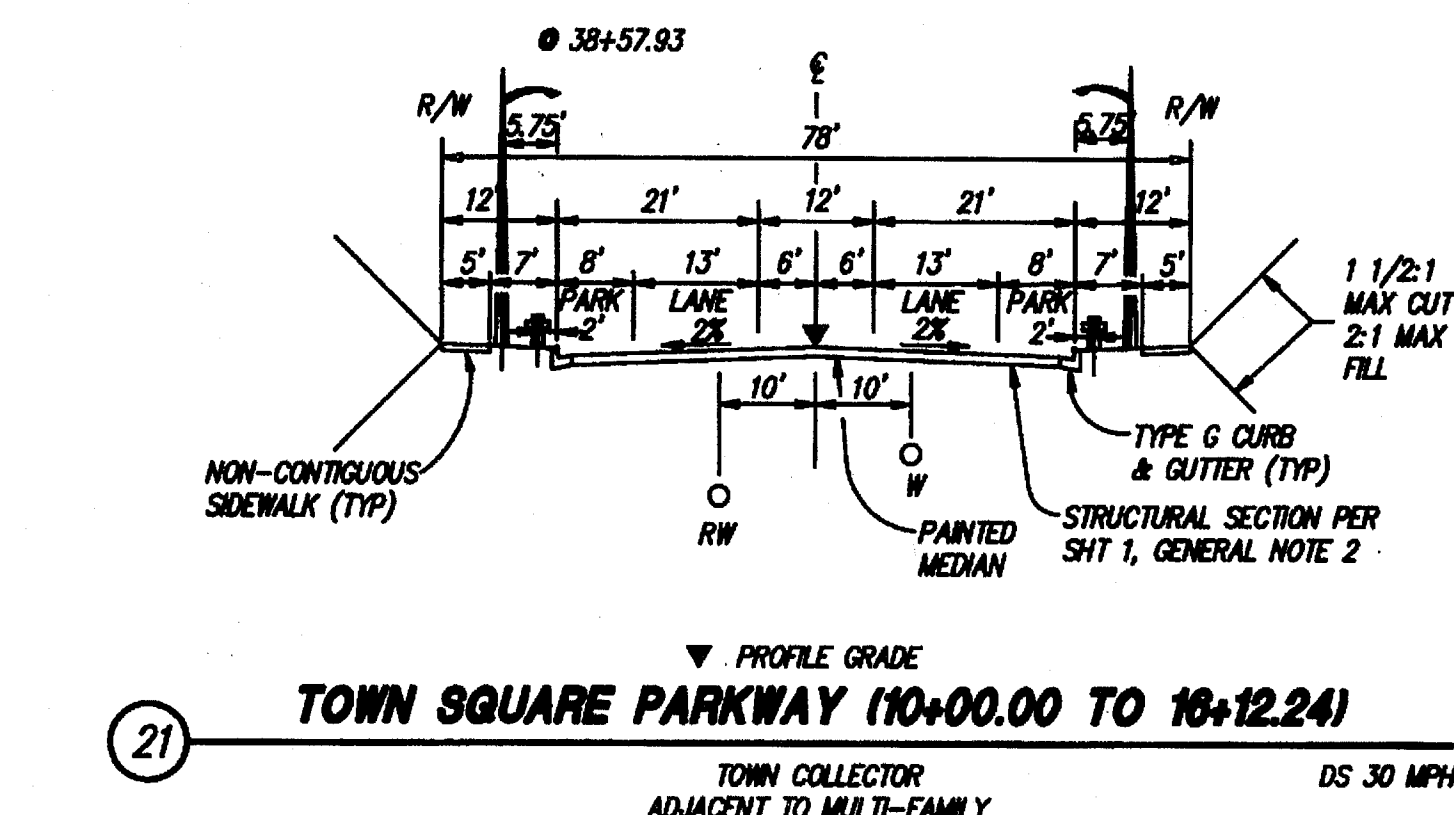
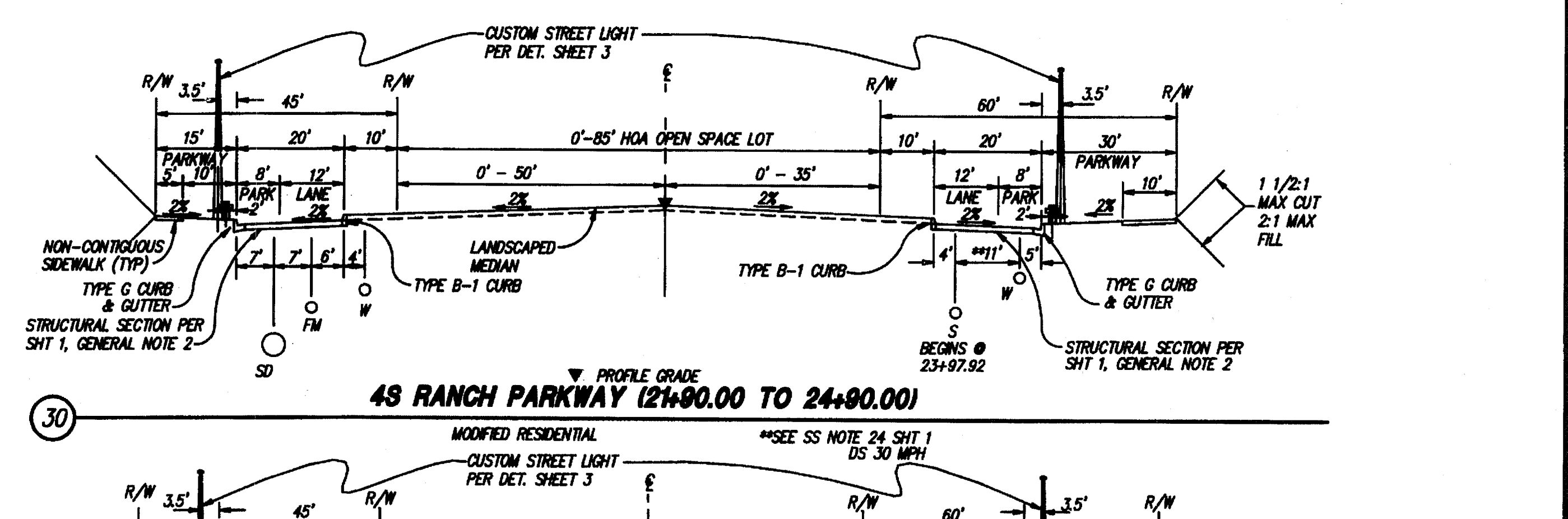
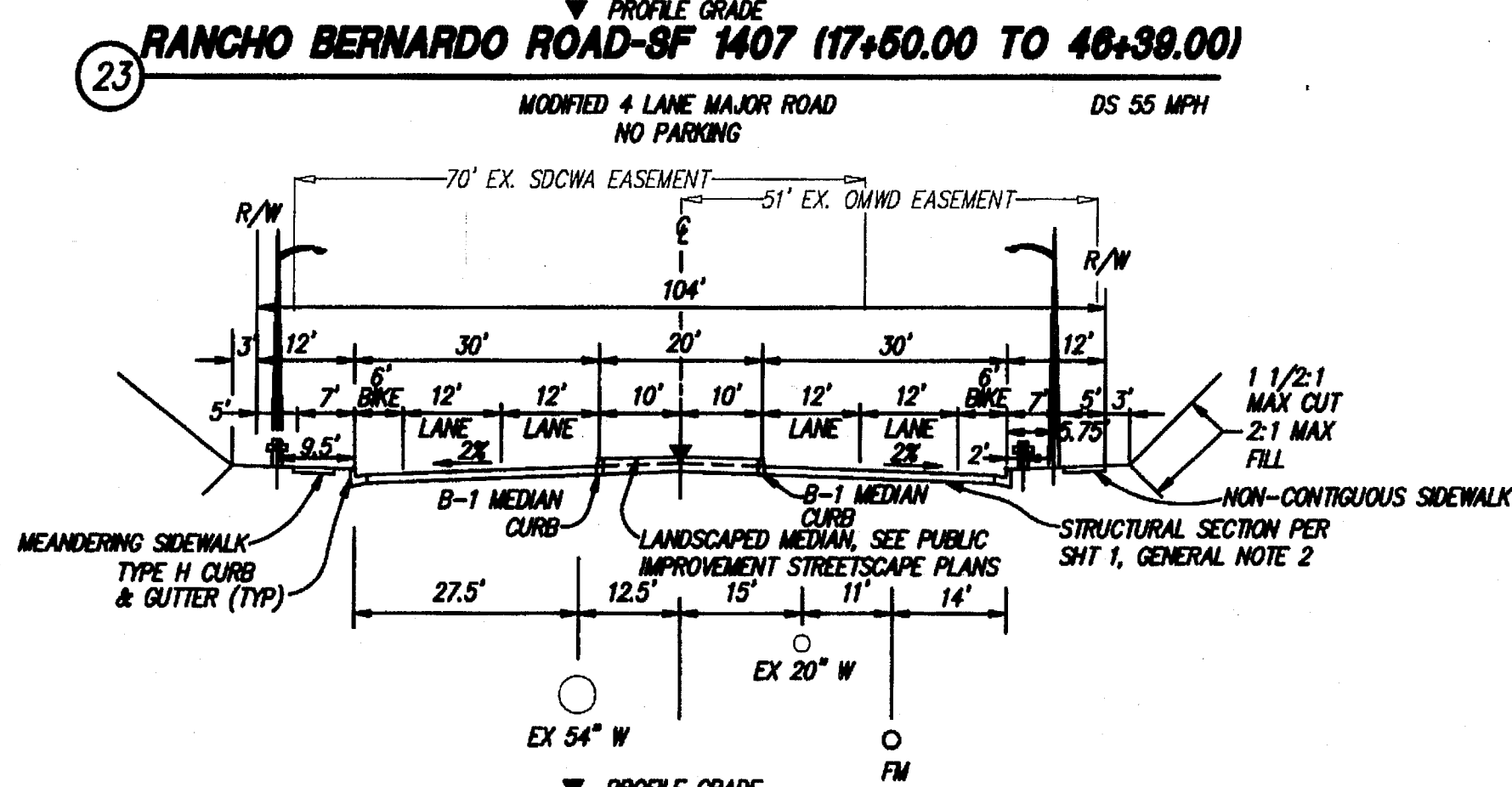
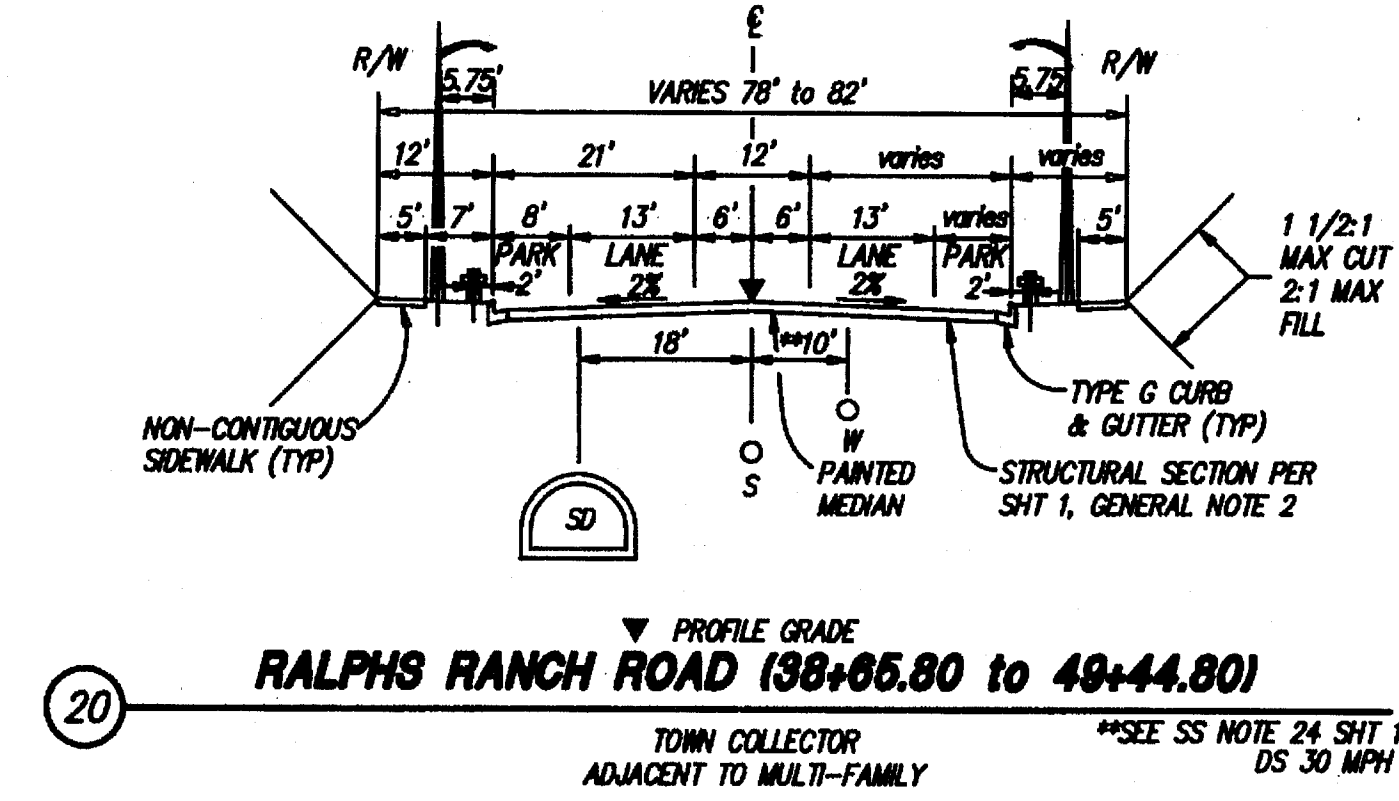
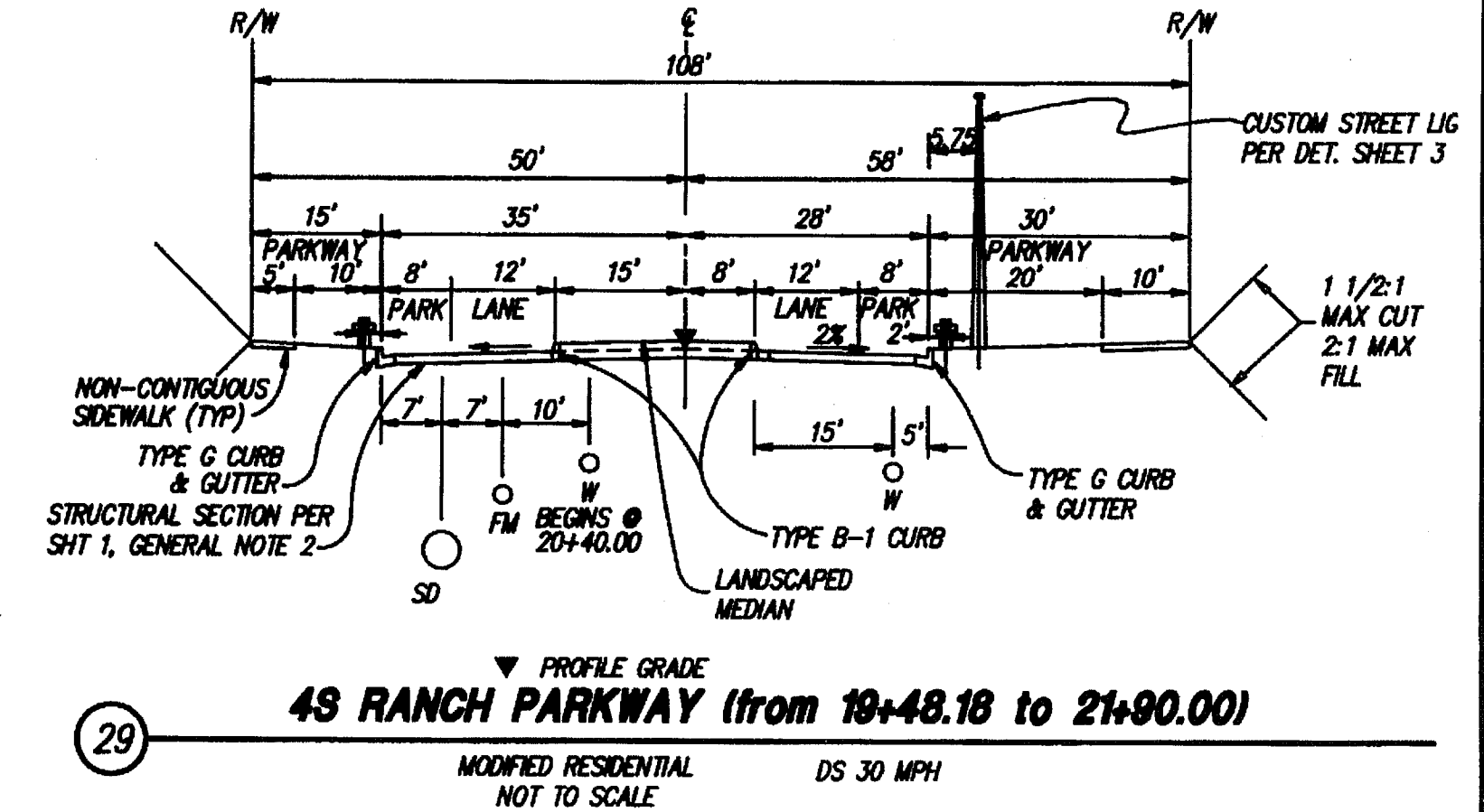
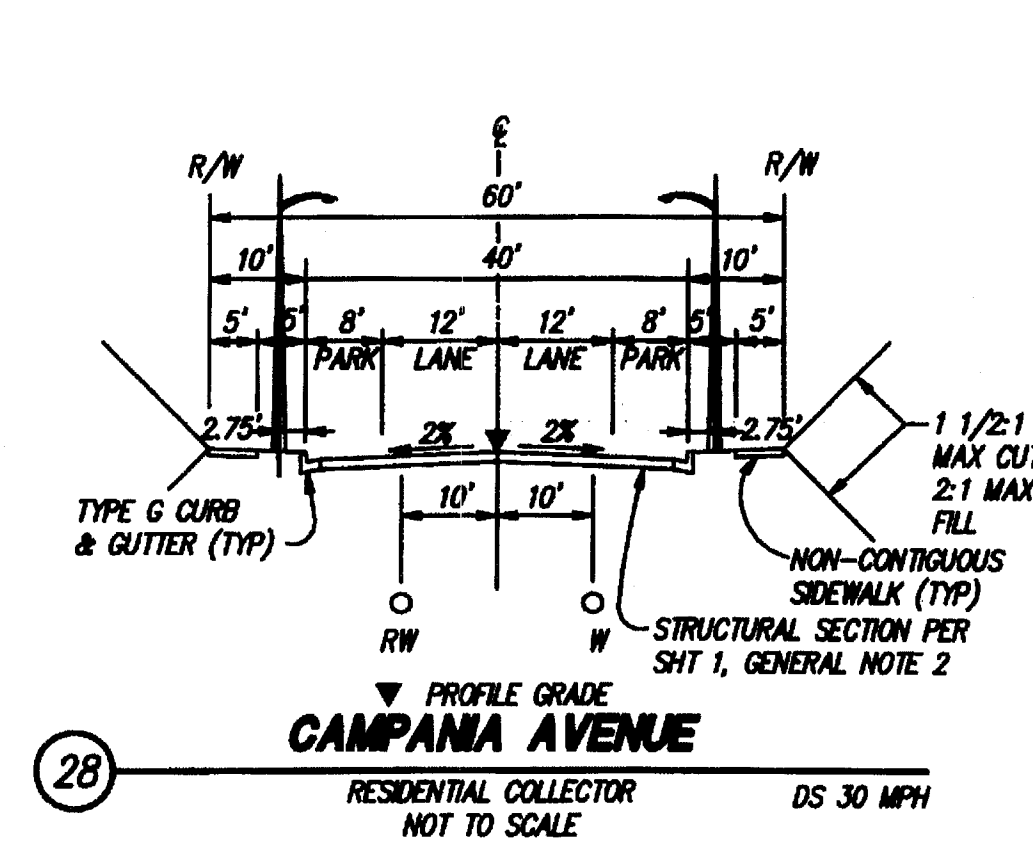
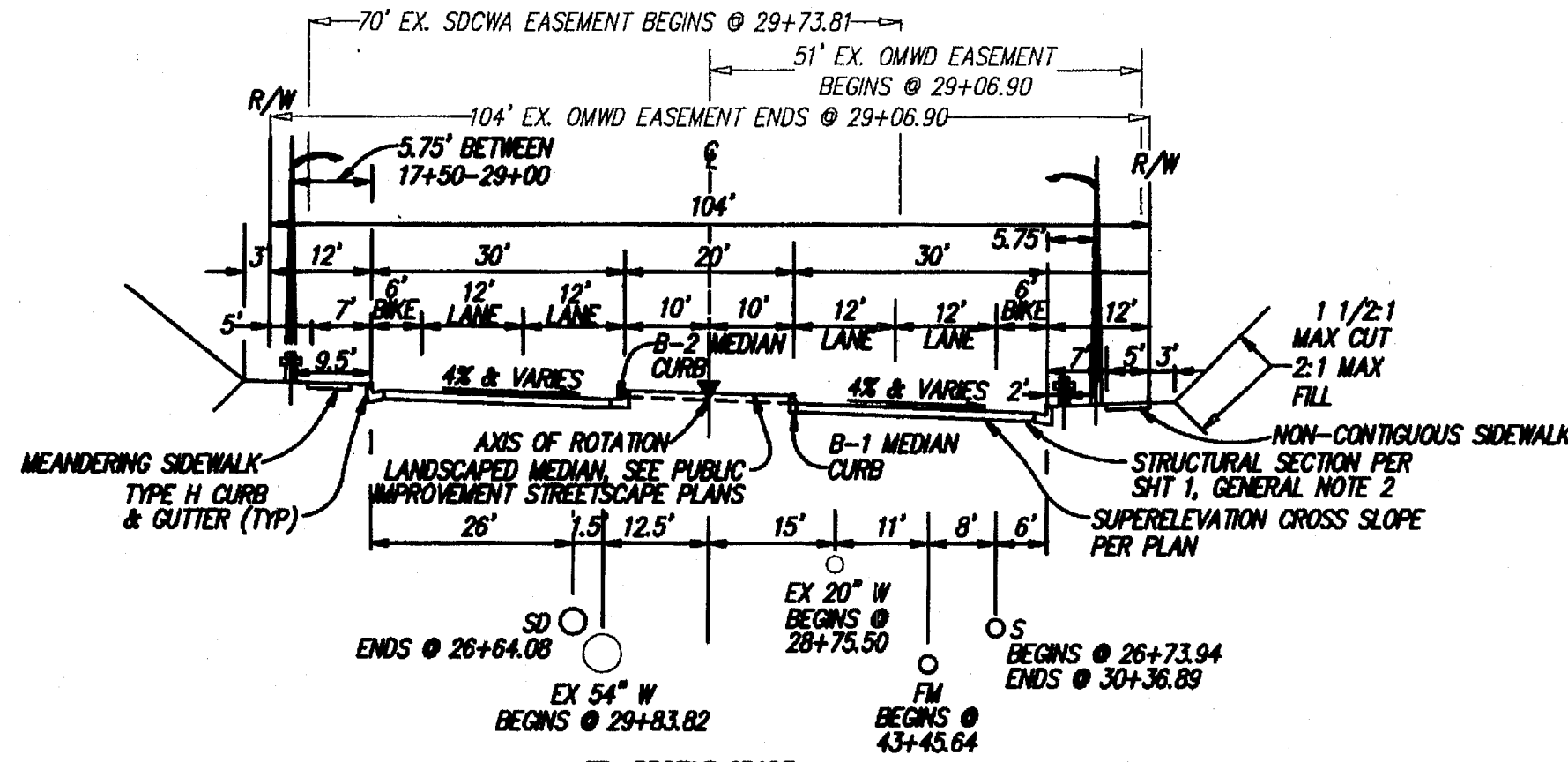
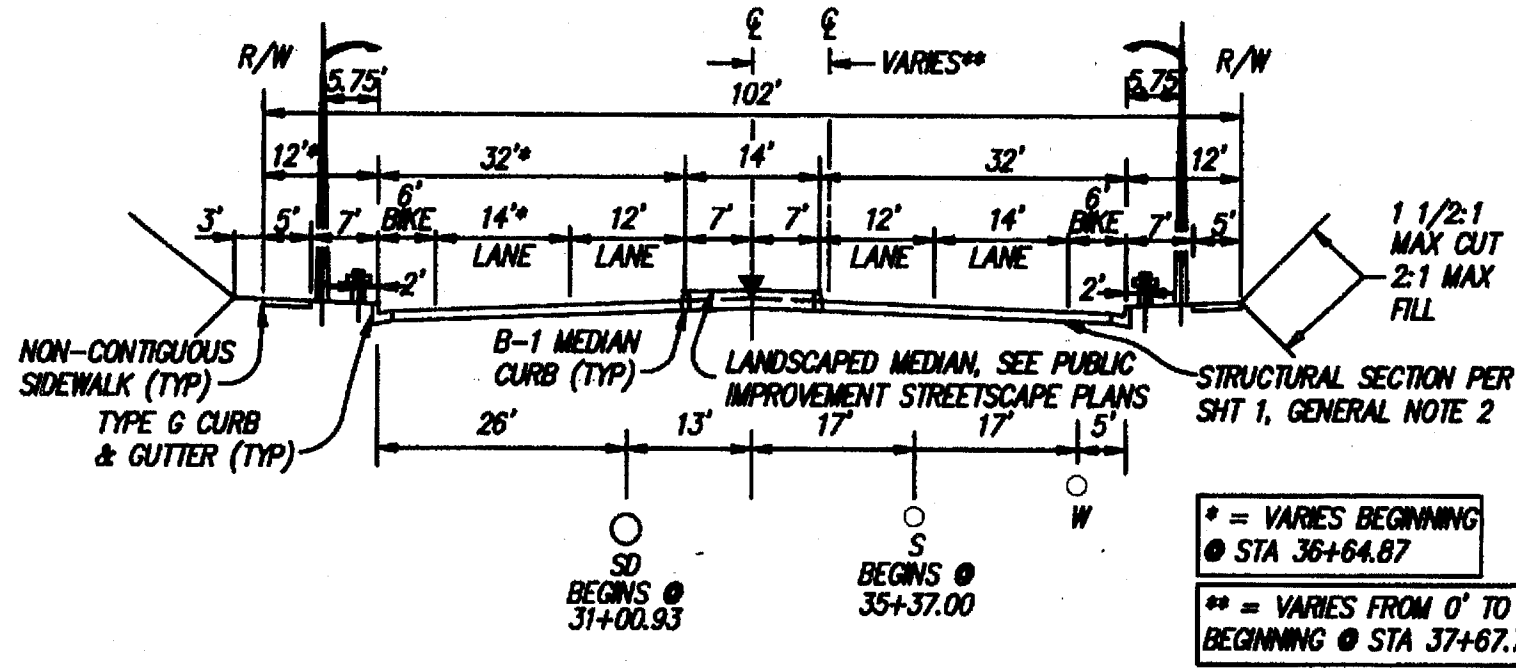
Recommended for approval: *[Signature]*  
 SUBMISSION ENGINEER  
 Approved by: *[Signature]*  
 ENGINEER OF PUBLIC WORKS  
 Checked by: *[Signature]*  
 APPROVAL DATE: 12-14-03  
 APPROVAL NO.: 216104

**TM 5229-1**

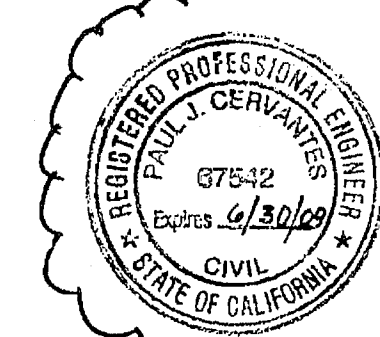
ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500



# COUNTY OF SAN DIEGO TRACT NO. 5229-1



DATE: 11/26/03  
 PLOT TIME: 10:41 a.m.  
 SERVER: S051  
 PATH: N:\SD\5229\Coord\123\11P



**RECORD PLAN**  
 PRINTED NAME: Paul J. Cervantes  
 DATE: 8/11/08  
 RCE No. 67542 EXP. 6/30/09



**NOLTE**  
 BEYOND ENGINEERING  
 15999 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 619.395.0200 TEL. 619.395.0400 FAX WWW.NOLTE.COM

No.	Description	Approved by	Date
1	REVISE TOTAL SHEETS, THEN RECORD PLAN	RJS	9/18/08

PERMITS	
HABITAT LOSS PERMIT NO.	N/A
TENTATIVE MAP NO.	TM 5229-1
M.C.I. NO.	9372317382
REZONE PERMIT NO.	95-001
MAJOR USE PERMIT NO.	P87-036W3
GRADING PERMIT NO.	L-14244

**PRIVATE CONTRACT**

SHEET 5 OF 5 SHEETS

COUNTY OF SAN DIEGO  
 DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**4S RANCH**  
 TYPICAL SECTIONS  
 SAN DIEGO COUNTY TRACT 5229-1

Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER

Engineer of work: [Signature]  
 CIVIL ENGINEER

Checked by: [Signature]  
 APPROVED: 12-14-03

RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

PROJECT NO. TM 5229-1

ENGINEERS NAME: NOLTE ASSOCIATES  
 PHONE NO. (619) 385-0500











LATERAL TABLE

LATERAL TABLE

LATERAL TABLE

LATERAL TABLE

Table with columns: STREET, LOT NO., STATION, I.E. MAN, DROP TO MAIN, LATERAL LENGTH, LATERAL I.E. PL, T.C. SEWER, LAT. DEPTH @ PL, LATERAL SLOPE, STATION, T.C. WATER. Contains data for streets like ALBERT AVENUE, RALPHS RANCH ROAD, CAMINO SAN THOMAS, SILVER CREST DRIVE, and SILVER PINE ROAD.

Table with columns: STREET, LOT NO., STATION, I.E. MAN, DROP TO MAIN, LATERAL LENGTH, LATERAL I.E. PL, T.C. SEWER, LAT. DEPTH @ PL, LATERAL SLOPE, STATION, T.C. WATER. Contains data for streets like SILVER CREST DRIVE, SILVER PINE ROAD, SIENNA RIDGE DRIVE, SIENNA RIDGE PLACE, and SIENNA HILLS DRIVE.

Table with columns: STREET, LOT NO., STATION, I.E. MAN, DROP TO MAIN, LATERAL LENGTH, LATERAL I.E. PL, T.C. SEWER, LAT. DEPTH @ PL, LATERAL SLOPE, STATION, T.C. WATER. Contains data for streets like SIENNA RIDGE DRIVE, SIENNA RIDGE PLACE, SIENNA HILLS DRIVE, PASO DE LINDA, and SILVER CREST LANE.

Technical drawing area containing a cross-section diagram of a sewer lateral connection, a 'NOTICE' section with text instructions, a 'PERMITS' section with project details, a 'RECORD PLAN' section with a signature and date, and a 'PRIVATE CONTRACT' section with project information.

PG. DATE: 12/02/05
SERIES: S051
DRAWING NAME: PLUMBING
SCALE: AS SHOWN (OR 1/4"=1'-0")

NOTLE
BEYOND ENGINEERING
15070 AVENUE OF SCIENCE, SUITE 100 SAN DIEGO, CA 92128
TEL: 619-592-7200 FAX: 619-592-0400 WWW.NOTE.CA



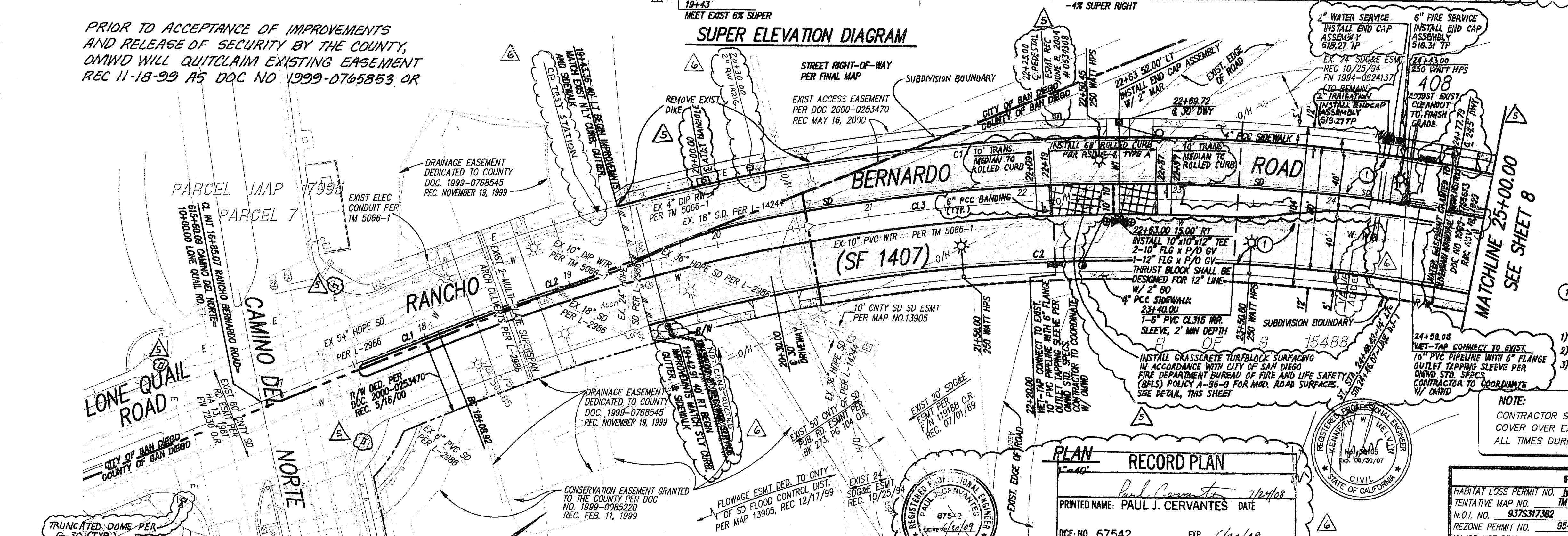
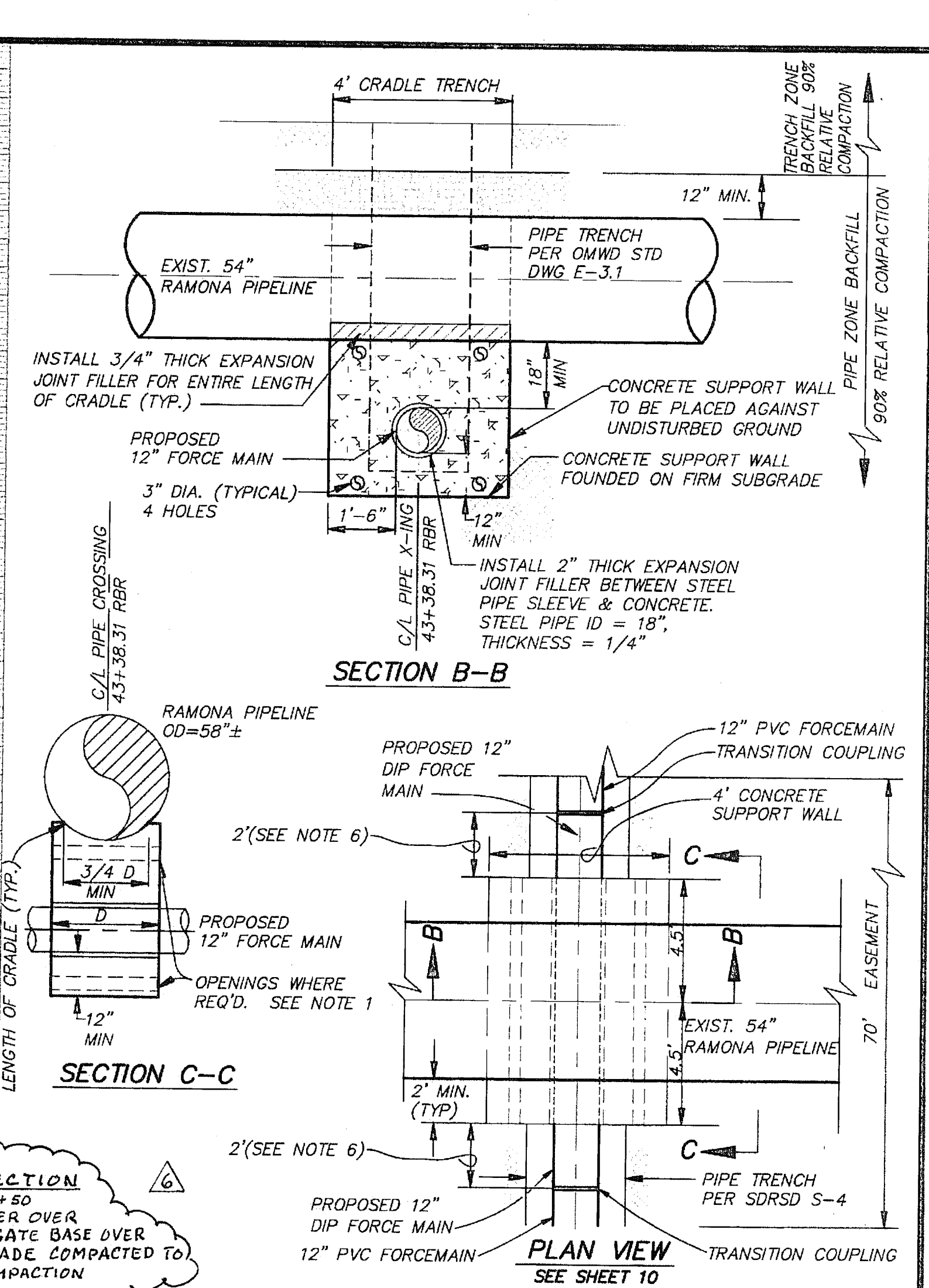
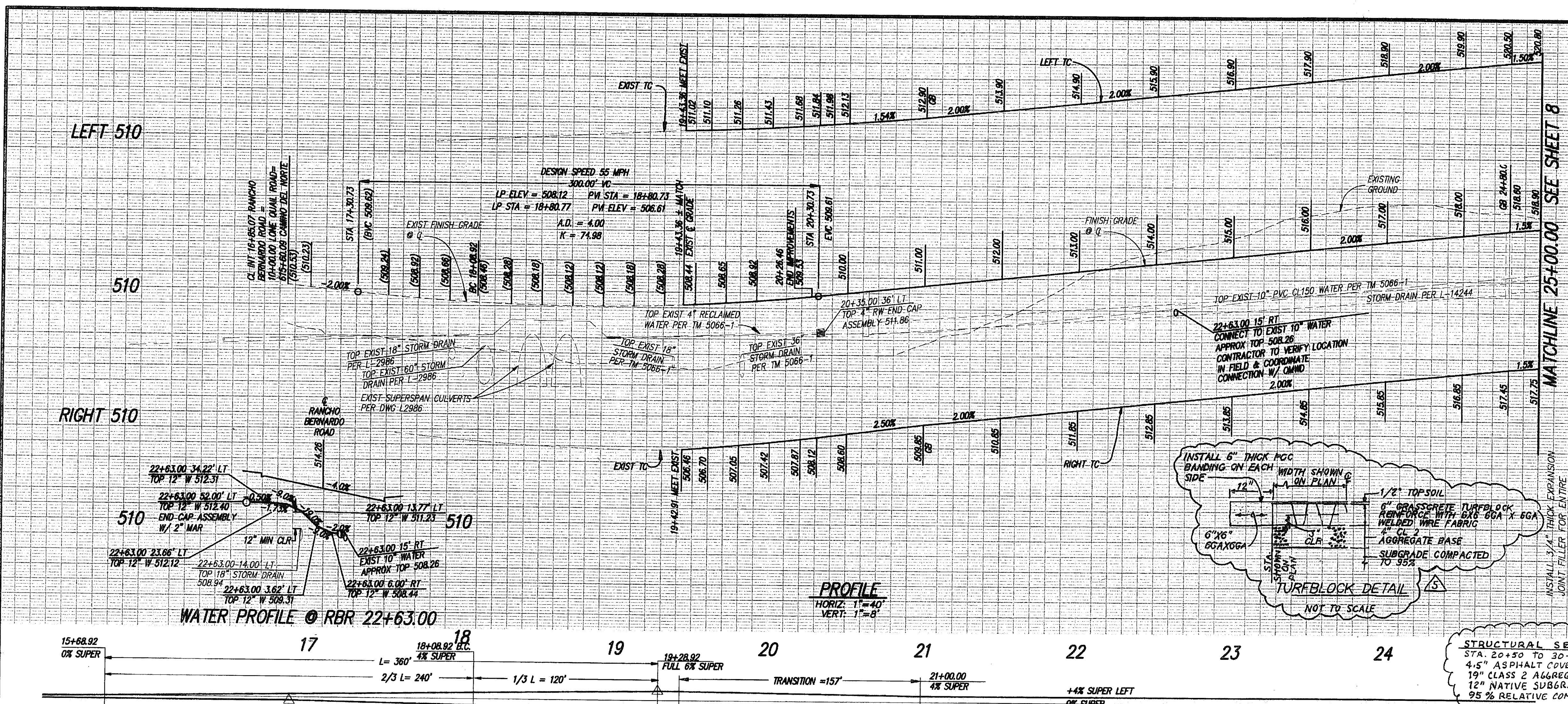
RECORD PLAN
PRINTED NAME: PAUL J. CERVANTES
DATE: 12/02/05
COUNTY APPROVED CHANGES

PERMITS
HABITAT LOSS PERMIT NO. N/A
TENTATIVE MAP NO. TM 5229-1
PROJECT NO. 037S317382
REZONE PERMIT NO. 95-001
MAJOR USE PERMIT NO. P87-036K3
GRADING PERMIT NO. L-14244

PRIVATE CONTRACT
COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
PLANS FOR THE IMPROVEMENT OF:
4S RANCH
LATERAL TABLES
SAN DIEGO COUNTY TRACT 5229-1

ENGINEER'S NAME: NOTLE ASSOCIATES





- OPENINGS TO BE PROVIDED FOR FREE DRAINAGE THROUGH WALLS. NUMBER AND LOCATION TO BE DETERMINED DURING CONSTRUCTION AND APPROVED BY SDCWA DISTRICT ENGINEER.
- UNREINFORCED CONCRETE FOR SUPPORT WALLS SHALL BE CLASS C CONCRETE, AND A MINIMUM OF 8" THICK.
- AN ALTERNATIVE METHOD FOR SUPPORT OF A CROSSING PIPELINE MAY BE USED BY THE CONTRACTOR IF DESIGN IS REVIEWED BY THE ENGINEER AND APPROVED BY SDCWA AND OJWD.
- WHERE SEPARATION BETWEEN BOTTOM OF SDCWA PIPELINE AND TOP OF FORCE MAIN IS 3'-0" OR LESS, PROVIDE CONCRETE SUPPORT WALL AS SHOWN. WHERE SEPARATION IS GREATER THAN 3'-0", COMPACTED BACKFILL CAN BE PROVIDED IF APPROVED BY SDCWA AND OJWD.
- SEWER FORCE MAIN ENCASED W/ CONCRETE SHALL BE CLASS-LINED DUCTILE IRON PIPE, VITCO CORP TYPE S614, WITH POLYETHYLENE COATING.
- POLYWRAP PORTION OF DIP PROTRUDING FROM CONC. ENCASEMENT TO BE COATED WITH WAX TAPE PER OJWD STANDARD SPECIFICATION SECTION 09868.

**CONSTRUCTION NOTES**

- AC PAVEMENT - 4 LANE MAJOR

**NOTES**

- SEE SHEET 61 FOR MEDIAN IMPROVEMENTS
- SEE SHEET 66 FOR SIGNING AND STRIPING
- FOR EXISTING IMPROVEMENTS SEE TM 5066-1, SHT. 16

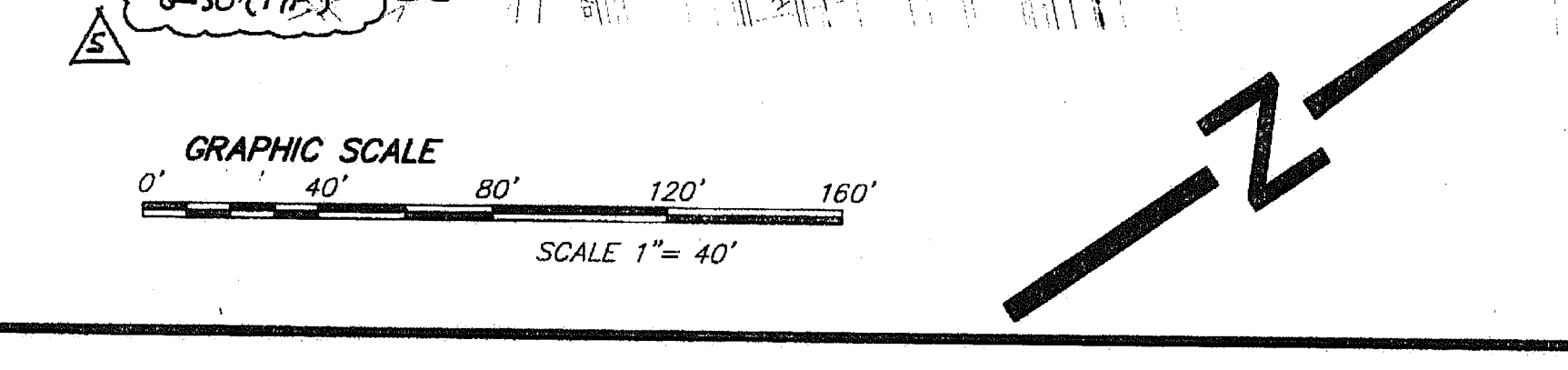
**NOTE:** CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET COVER OVER EXISTING OJWD WATERLINES AT ALL TIMES DURING CONSTRUCTION.

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	283°40'	1240.00'	575.20'	6" TYPE IV C&G
C2	6°25'08"	1200.00'	134.44'	6" TYPE IV C&G
C3	26°34'39"	1200.00'	536.52'	6" TYPE IV C&G

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N56°14'49" W		67.00'	12" PVC CL150



**SAN DIEGO COUNTY WATER AUTHORITY**

REVIEWED BY: *[Signature]* 12-17-03  
John Economides  
Director of Engineering  
Valid for 18 months from date of signature.

**NOLTE**  
BEYOND ENGINEERING  
15099 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
658.385.0500 TEL 658.385.0400 FAX WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	ADD DWT. ELEC. PESTALAT, AT&T MH ROLLED CURB, GRASSCRETS & DETAIL REVISED SD & CO. REV. MANUAL, ADD TRUNCATED DOME, & TOTAL SHEETS	RIS.	11/10/07
2	RELOCATE RECLAIMED WATER SERVICE, ADD STRUCTURAL SECTION, WATER VALUE AND CP	WIS.	9/18/03

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
TENTATIVE MAP NO. TM 5229-1  
N.O.I. NO. 9375317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. P87-036N3  
GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
LS 5894  
LOCATION: C/L INTERSECTION THORNHUNT RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 7 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**RANCHO BERNARDO ROAD (SF 1407) STREET IMPROVEMENTS INT W/ CAMINO DEL NORTE TO 25+00**

Recommended for approval: *[Signature]*  
SUBMISSION ENGINEER

Approved for: DOUGLAS M. ISBELL  
COUNTY ENGINEER

Checked by: *[Signature]*  
DATE: 12-11-03

Approved by: *[Signature]*  
DATE: 12/10/04

PROJECT NO. TM 5229-1

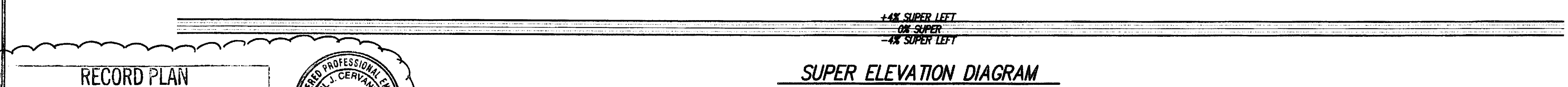
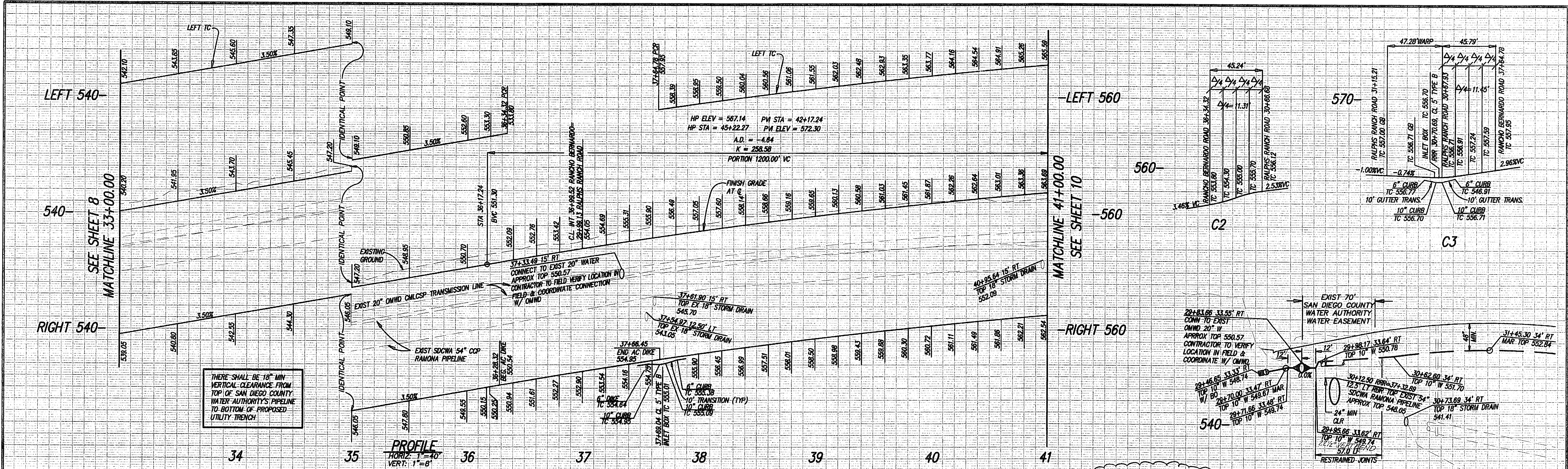
PTG. DATE: 12/11/03  
SERV: 5051  
DRAWING NAME: PLOT/DWG  
DRAWING NAME: PLOT/DWG

ENGINEER'S NAME: NOLTE ASSOCIATES  
PHONE NO. (858) 385-0500

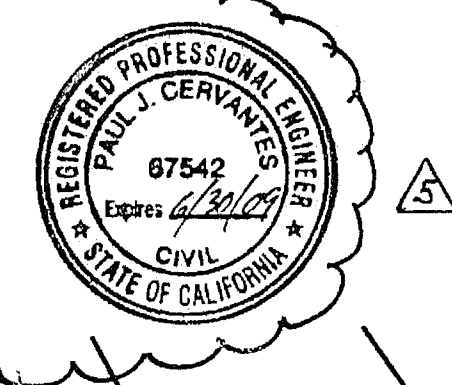






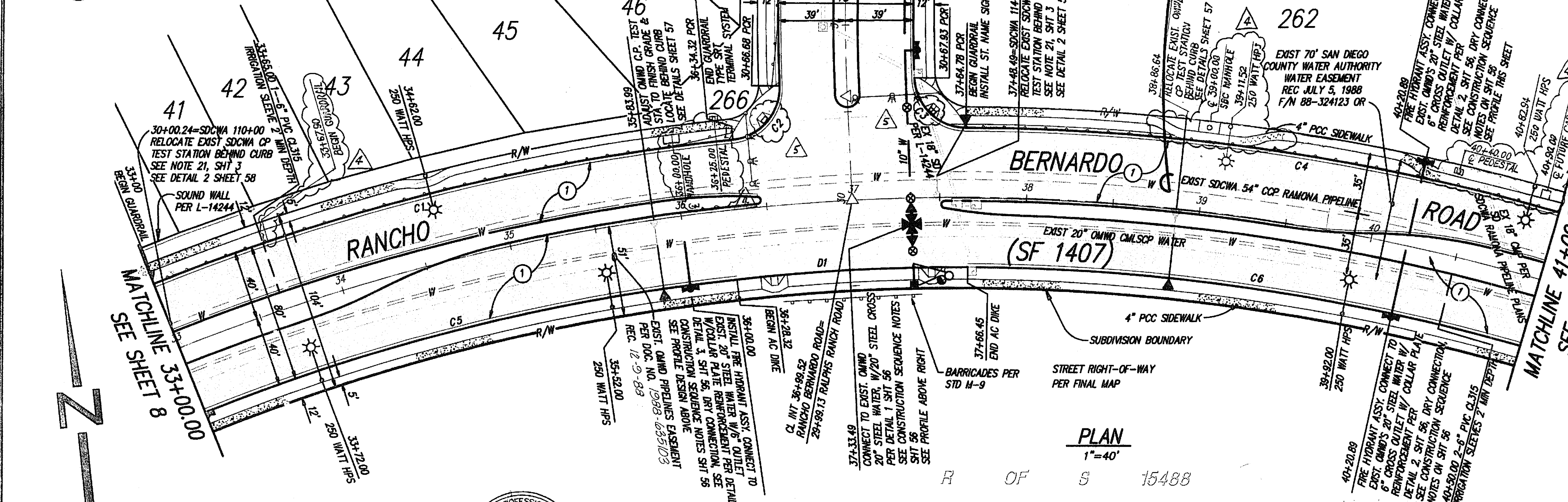


**RECORD PLAN**  
 PRINTED NAME: Paul Cervantes 7/24/08  
 DATE: 7/24/08  
 PCE NO: 67542 EXP: 6/30/09



**RALPHS RANCH ROAD**  
 SEE SHEET 19

**CAUTION!!**  
 EXIST 54" COP  
 SAN DIEGO COUNTY  
 WATER AUTHORITY  
 PIPELINE



**STRUCTURAL SECTION**  
 STA 20+50 TO 45+50  
 4.5" ASPHALT COVER OVER  
 19" CLASS 2 AGGREGATE BASE OVER  
 12" NATIVE SUBGRADE COMPACTED TO  
 95% RELATIVE COMPACTION

**NOTE:**  
 CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET  
 COVER OVER EXISTING OMWD WATER LINES AT  
 ALL TIMES DURING CONSTRUCTION.

- CONSTRUCTION NOTES**
- AC PAVEMENT - 4 LANE MAJOR

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
CL1	3671.50°	1200.00'	800.00'	

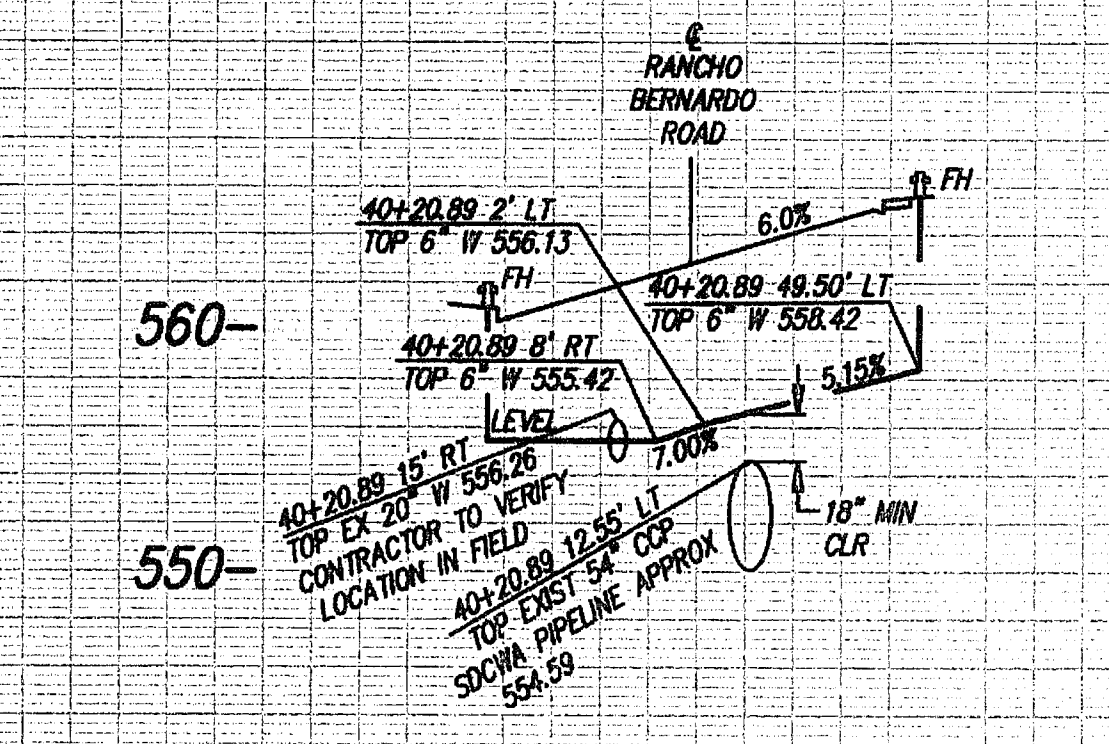
**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	1557.45°	1240.00'	345.45'	6" TYPE 'Y' C&G
C2	8624.20°	30.00'	45.24'	6" TYPE 'Y' C&G
C3	8726.57°	30.00'	45.70'	6" TYPE 'Y' C&G
C4	16719°	1240.00'	346.30'	6" TYPE 'Y' C&G
C5	1540.35°	1160.00'	317.30'	6" TYPE 'Y' C&G
C6	1555.32°	1160.00'	322.43'	6" TYPE 'Y' C&G

**AC DIKE DATA TABLE**

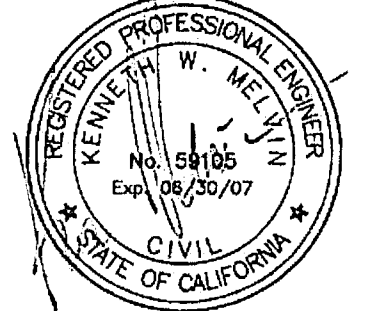
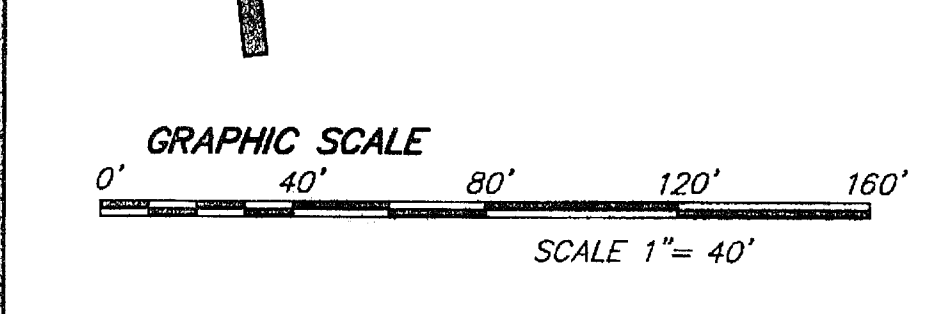
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
D1	635.43°	1160.00'	133.53'	6" TYPE 'Y' DIKE

**WATER CONNECTION/CROSSING @ 37+33.49**



**FIRE HYDRANT @ 40+20.89**

- NOTES**
- SEE SHEET 61 & 62 FOR MEDIAN IMPROVEMENTS
  - SEE SHEET 66 & 67 FOR SIGNING AND STRIPING
  - SEE SHEET 57 FOR CATHODIC PROTECTION FOR OMWD 20" WATER AND SEE SHEETS 58-60 FOR CATHODIC PROTECTION FOR CWA 54" WATER
  - SEE SHEET 65 FOR TRAFFIC SIGNAL PLAN AT INTERSECTION RANCHO BERNARDO ROAD AND RALPHS RANCH ROAD



**SAN DIEGO COUNTY WATER AUTHORITY**  
 REVIEWED BY: [Signature] 12-17-03  
 John Economides  
 Director of Engineering  
 Valid for 18 months from date of signature

**NOLTE**  
 BEYOND ENGINEERING  
 15000 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 619.345.0568 TEL. 619.345.9400 FAX WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REVISED S/W, ADD ELEC. PEDESTALS, ACCESS HOLES & TRANS., REVISED GUARDRAIL & TOT SHTS	RS	11/29/03
2	ADD TRUNCATED DOMES AND STRUCTURAL SECTION, THEN RECORD PLAN	RS	9/10/03

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.I. NO. 9375317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LS 5894  
 LOCATION: C/L INTERSECTION THORNHILT RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 9 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 152 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**RANCHO BERNARDO ROAD (SF 1407) STREET IMPROVEMENTS 33+00 TO 41+00**

Recommended for approval: [Signature] SUBDIVISION ENGINEER  
 Approved by: [Signature] COUNTY ENGINEER

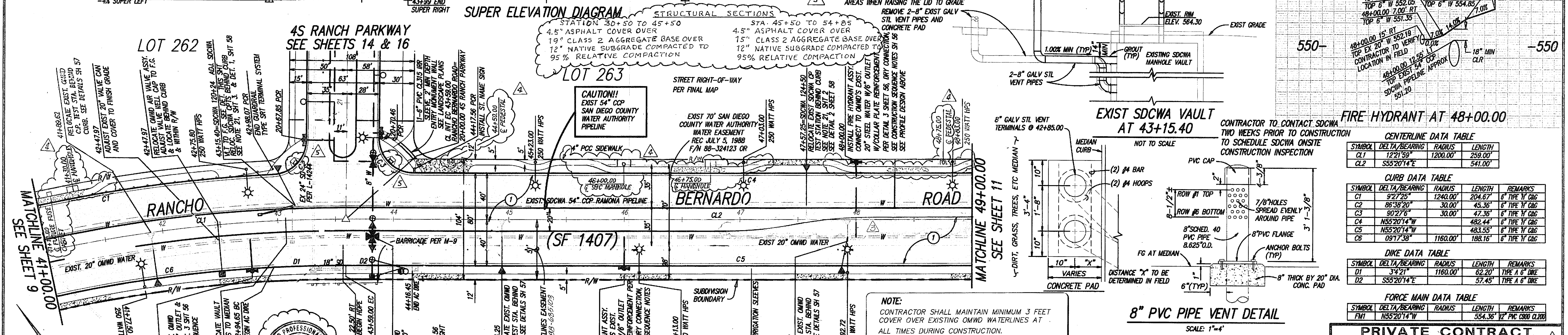
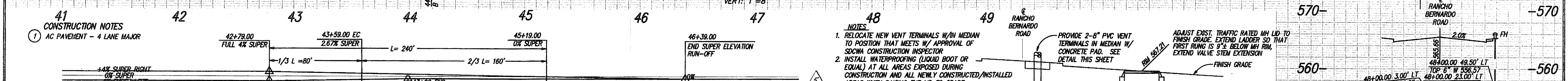
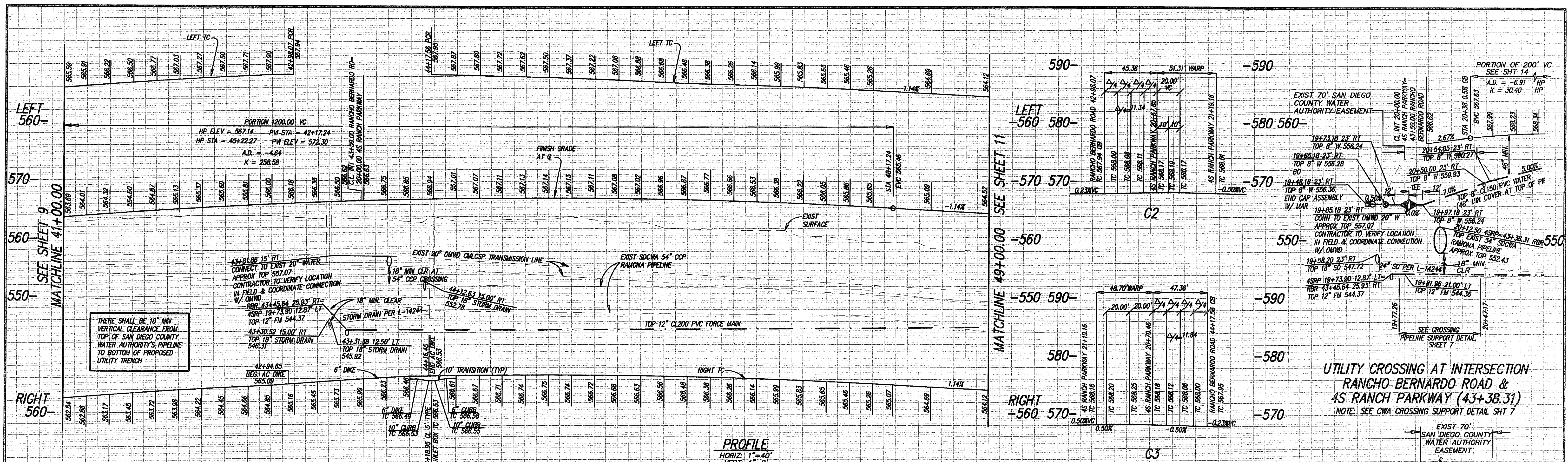
Engineer of work: [Signature] 12-11-03  
 Checked by: [Signature] 2/6/04

TM 5229-1

ENGINEERS NAME: NOLTE ASSOCIATES  
 PHONE NO. (619) 385-0500



PTG. DATE: 11/20/03 11:45 am.  
 PLOTING VIEW: NONE  
 DRAWING NAME: PAVING  
 SERIAL: 5051  
 PART: M:1500055 (Cadd.indt/1P)



**RECORD PLAN**  
 PAUL J. CERVANTES  
 RCE NO. 67542  
 EXP. 6/30/09

**SAN DIEGO COUNTY WATER AUTHORITY**  
 REVIEWED BY: [Signature]  
 DATE: 12-17-03

**NOLTE**  
 BEYOND ENGINEERING  
 1590 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 858.385.0500 TEL 858.385.0400 FAX

**NOTES**

- SEE SHEET 62 FOR MEDIAN IMPROVEMENTS
- SEE SHEET 67 FOR SIGNING AND STRIPING
- SEE SHEET 57 FOR CATHODIC PROTECTION FOR OMD 20" WATER AND SDCWA 54" WATER
- THE FORCE MAIN UTILITY CONTRACTOR SHALL OBTAIN SDCWA APPROVAL FOR THE METHOD OF CONSTRUCTION FOR THE PROPOSED 12" FORCE MAIN CROSSING OF SDCWA'S EXISTING 54" RAMONA PIPELINE PRIOR TO MAKING THIS CROSSING

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.I. NO. 9375317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LS 5894  
 LOCATION: C/L INTERSECTION THORNHUNT RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14482)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 10 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 152 SHEETS

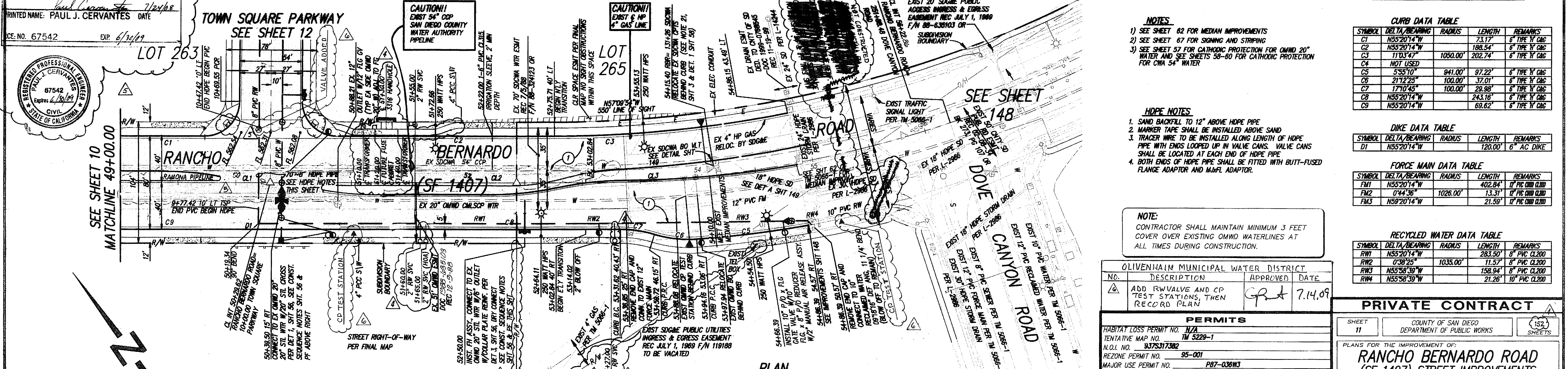
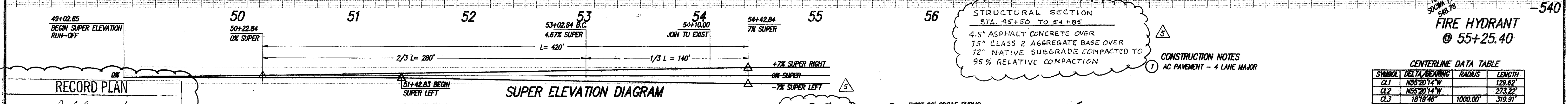
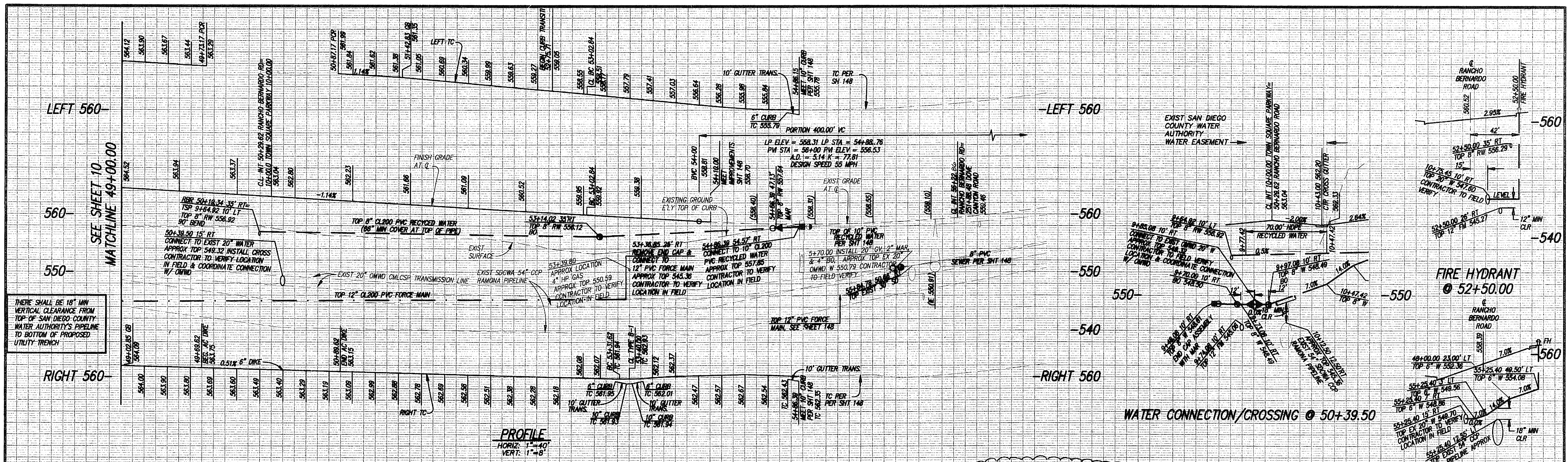
PLANS FOR THE IMPROVEMENT OF:  
**RANCHO BERNARDO ROAD (SF 1407) STREET IMPROVEMENTS 41+00 TO 49+00**

Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER

Checked by: [Signature]  
 APPROVED DATE: 12/11/03  
 APPROVAL NO. TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500





**RECORD PLAN**  
PRINTED NAME: PAUL J. CERVANTES DATE: 7/14/09  
CE NO. 67542 EXP. 6/30/11

REGISTERED PROFESSIONAL ENGINEER  
PAUL J. CERVANTES  
67542  
EXPIRES 6/30/11  
CIVIL  
STATE OF CALIFORNIA

**SAN DIEGO COUNTY WATER AUTHORITY**

REVIEWED BY: *[Signature]* Date: 12-17-03  
John Economides  
Director of Engineering  
Valid for 18 months from date of signature

**NOLTE**  
BEYOND ENGINEERING

15090 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
619-395-0500 TEL. 619-395-0400 FAX  
WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REVISED MEDIAN & SHT. COUNT.	RS. [Signature]	12/11/03
2	ADD ELEC. TRANS. HANDHOLES FUSE PAD & RW SERVICES, REV SW, R/W & TOT SHTS REMOVE FH, GV, BO AND MAR. AND TRUNCATED DOWNS.	RS. [Signature]	9/16/08

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
TENTATIVE MAP NO. TM 5228-1  
N.G.I. NO. 8375317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. P87-036W3  
GRADING PERMIT NO. L-14244

**PRIVATE CONTRACT**

SHEET 11 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS (152) SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**RANCHO BERNARDO ROAD (SF 1407) STREET IMPROVEMENTS 49+00 TO 57+00**

Recommended for approval: *[Signature]* DOUGLAS M. ISBELL COUNTY ENGINEER  
Subdivision Engineer: *[Signature]*  
Checked by: *[Signature]* 12-11-05  
Approved by: *[Signature]* 2-11-04  
TM 5229-1

**STRUCTURAL SECTION**  
STA 45+50 TO 54+85  
4.5" ASPHALT CONCRETE OVER 7.5" CLASS 2 AGGREGATE BASE OVER 12" NATIVE SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION

**CONSTRUCTION NOTES**  
1 AC PAVEMENT - 4 LANE MAJOR

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	N55°20'14"W		129.62'
CL2	N55°20'14"W		273.22'
CL3	187°19'46"	1000.00'	319.91'

**NOTES**

- SEE SHEET 02 FOR MEDIAN IMPROVEMENTS
- SEE SHEET 67 FOR SIGNING AND STRIPING
- SEE SHEET 57 FOR CATHODIC PROTECTION FOR OMND 20" WATER AND SEE SHEETS 58-60 FOR CATHODIC PROTECTION FOR CMA 54" WATER

**HOPE NOTES**

- SAND BACKFILL TO 12" ABOVE HOPE PIPE
- MARKER TAPE SHALL BE INSTALLED ABOVE SAND
- TRACER WIRE TO BE INSTALLED ALONG LENGTH OF HOPE PIPE WITH ENDS LOOPED UP IN VALVE CANS. VALVE CANS SHALL BE LOCATED AT EACH END OF HOPE PIPE
- BOTH ENDS OF HOPE PIPE SHALL BE FITTED WITH BUTT-FUSED FLANGE ADAPTOR AND MANF. ADAPTOR.

**NOTE:**  
CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET COVER OVER EXISTING OMND WATERLINES AT ALL TIMES DURING CONSTRUCTION.

**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	N55°20'14"W		73.17'	6" TYPE IV C&G
C2	N55°20'14"W		188.54'	6" TYPE IV C&G
C3	110°37'47"	1050.00'	202.74'	6" TYPE IV C&G
C4	NOT USED			
C5	S55°10'	941.00'	97.92'	6" TYPE IV C&G
C6	21°12'25"	100.00'	37.01'	6" TYPE IV C&G
C7	17°10'45"	100.00'	29.98'	6" TYPE IV C&G
C8	N55°20'14"W		243.16'	6" TYPE IV C&G
C9	N55°20'14"W		69.62'	6" TYPE IV C&G

**DIKE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
D1	N55°20'14"W		120.00'	6" AC DIKE

**FORCE MAIN DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
FM1	N55°20'14"W		402.84'	12" PVC OMND CL200
FM2	0°44'36"	1026.00'	13.31'	12" PVC OMND CL200
FM3	N59°20'14"W		21.59'	12" PVC OMND CL200

**RECYCLED WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
RW1	N55°20'14"W		283.50'	8" PVC CL200
RW2	0°30'25"	1035.00'	11.57'	8" PVC CL200
RW3	N55°58'39"W		158.94'	8" PVC CL200
RW4	N55°58'39"W		21.26'	10" PVC CL200

**OLIVENHAIN MUNICIPAL WATER DISTRICT**

NO.	DESCRIPTION	APPROVED	DATE
1	ADD IRVAVE AND CP TEST STATIONS, THEN RECORD PLAN	[Signature]	7.14.09

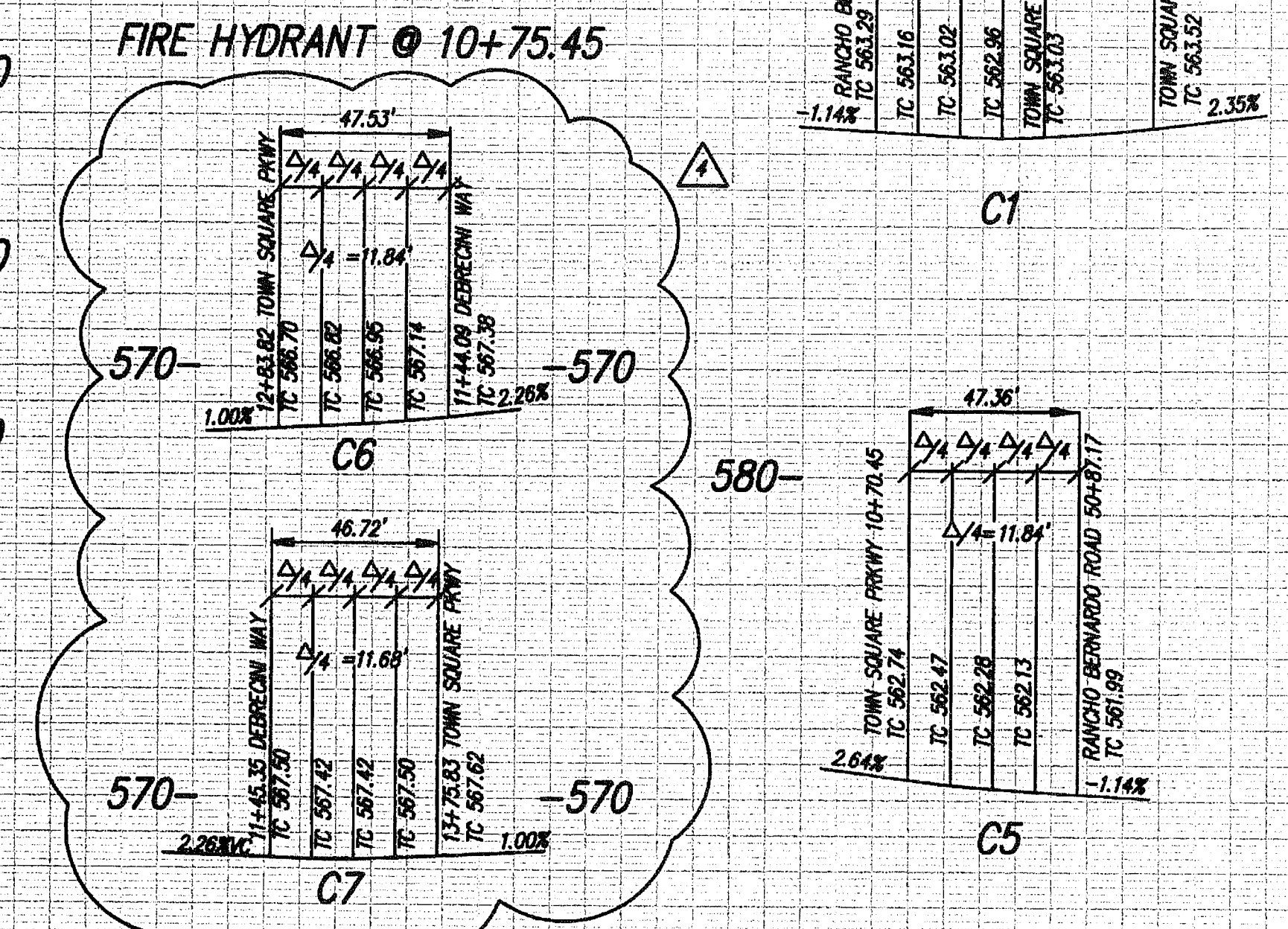
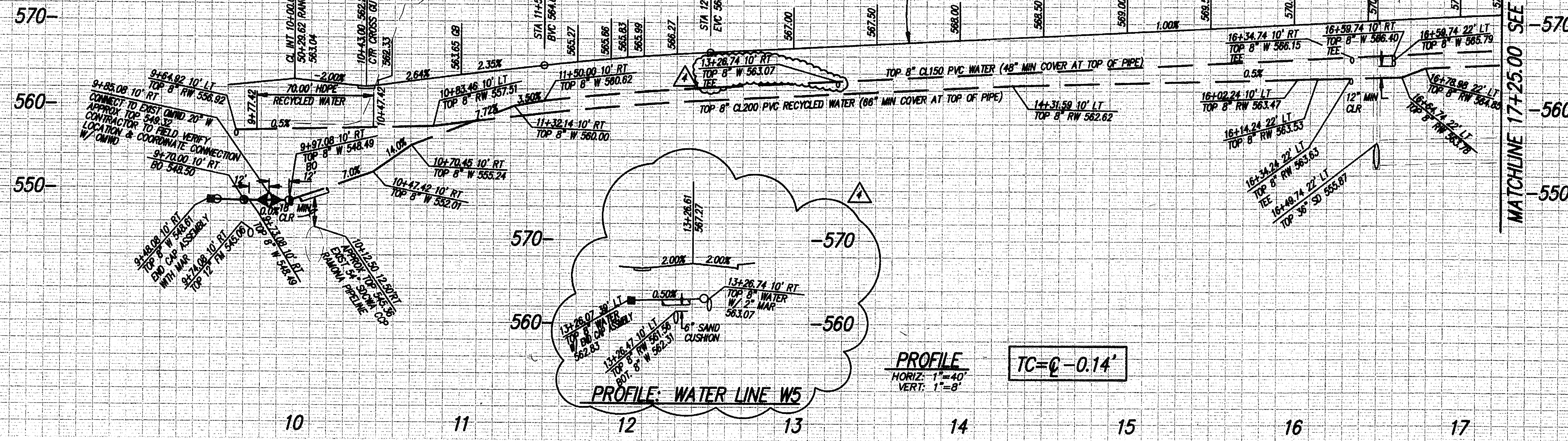
**BENCH MARK**

DESCRIPTION	APPROVED	DATE
3" BRASS DISK IN MONUMENT WELL STAMPED LS 5884	[Signature]	7.14.09
LOCATION: C/A INTERSECTION THORNHILL RD & CT		
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 309, R.O.S. 14492)		
ELEVATION: 622.05		
DATUM: NGVD 29 (FEET)		

**FILE NO.**

ENGINEER'S NAME: NOLTE ASSOCIATES  
PHONE NO. (619) 395-0500





STRUCTURAL SECTION  
STA. 10+00 TO 26+50  
4.0" ASPHALT COVER OVER  
15.5" CLASS 2 AGGREGATE BASE OVER  
12" NATIVE SUBGRADE COMPACTED TO  
95% RELATIVE COMPACTION

CONSTRUCTION NOTES  
① AC PAYMENT - TOWN COLLECTOR

CENTERLINE DATA TABLE

SYMBOL	DELTA BEARING	RADIUS	LENGTH
CL1	N35°06'51"E		725.00'

CURB DATA TABLE

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
C1	S8°32'55"	30.00'	46.89'	6" TYPE 'B' C&G
C2	N35°06'51"E		214.27'	6" TYPE 'B' C&G
C3	N35°06'51"E		23.76'	6" TYPE 'B' C&G
C4	N35°06'51"E		654.55'	6" TYPE 'B' C&G
C5	S0°27'2"	30.00'	47.35'	6" TYPE 'B' C&G
C6	S0°46'51"	30.00'	47.53'	6" TYPE 'B' C&G
C7	S8°13'09"	30.00'	46.72'	6" TYPE 'B' C&G
C8	N35°06'51"E		211.41'	6" TYPE 'B' C&G

NOTE:  
CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET  
COVER OVER EXISTING OMWD WATERLINES AT  
ALL TIMES DURING CONSTRUCTION.

NOTES  
1) SEE SHEET 71 FOR SIGNING AND STRIPING

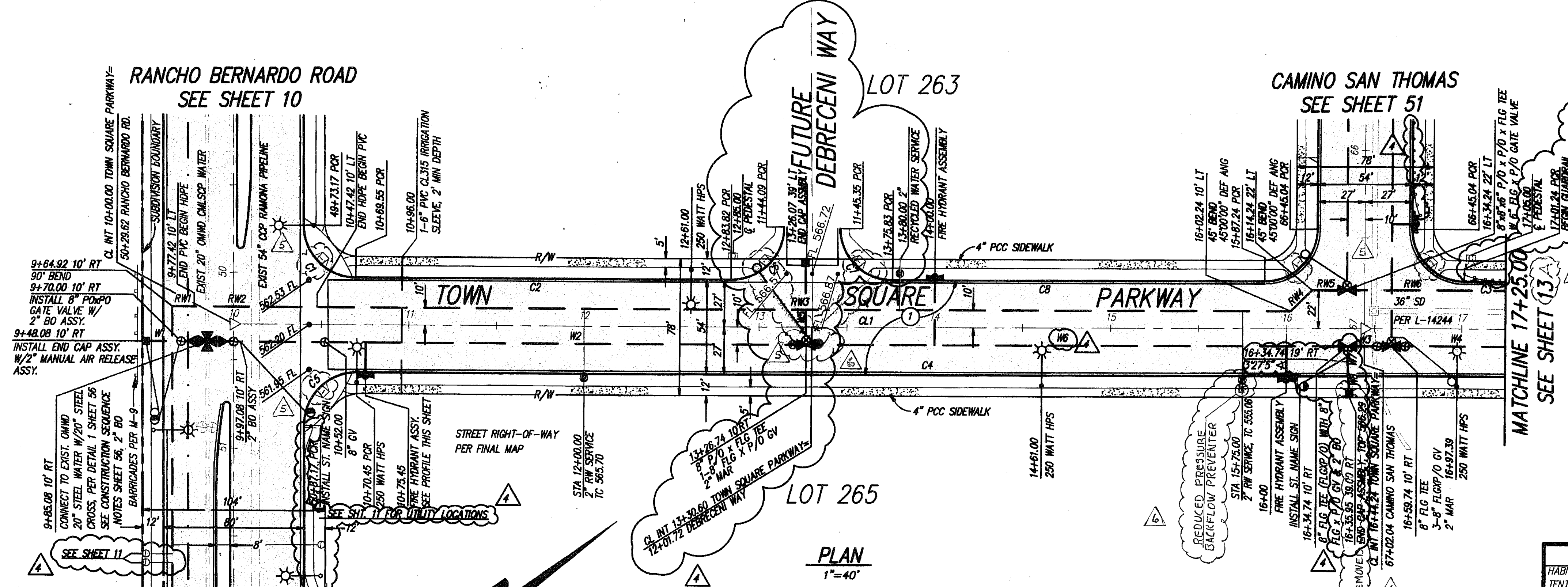
WATER DATA TABLE

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E		37.00'	8" PVC CL150
W2	N35°06'51"E		341.86'	8" PVC CL150
W3	N35°06'51"E		23.00'	8" PVC CL150
W4	N35°06'51"E		65.29'	8" PVC CL150
W5	S8°13'09"		46.00'	8" PVC CL150
W6	N35°06'51"E		308.00'	8" PVC CL150
W7	N54°53'39"		9.00'	8" PVC CL150
W8	N58°20'14"W		20.04'	8" PVC CL150

RECYCLED WATER DATA TABLE

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
RW1	N35°06'51"E		12.50'	8" PVC CL200
RW2	N35°06'51"E		70.00'	8" HOPE DRS.0
RW3	N35°06'51"E		554.82'	8" PVC CL200
RW4	N8°53'09"W		16.97'	8" PVC CL200
RW5	N35°06'51"E		20.00'	8" PVC CL200
RW6	N35°06'51"E		90.76'	8" PVC CL200

HOPE NOTES  
1. SAND BACKFILL TO 12" ABOVE HOPE PIPE  
2. WARNER TAPE SHALL BE INSTALLED ABOVE SAND  
3. TRACER WIRE TO BE INSTALLED ALONG LENGTH OF HOPE PIPE WITH ENDS LOOPED UP IN VALVE CANS. VALVE CANS SHALL BE LOCATED AT EACH END OF HOPE PIPE  
4. BOTH ENDS OF HOPE PIPE SHALL BE FITTED WITH BUTT-FUSED FLANGE ADAPTOR AND M&M FLANGE ADAPTOR.



PERMITS

HABITAT LOSS PERMIT NO.	N/A
TENTATIVE MAP NO.	TM 5229-1
N.G.I. NO.	9375317382
REZONE PERMIT NO.	95-001
MAJOR USE PERMIT NO.	P87-036W3
GRADING PERMIT NO.	L-14244

PRIVATE CONTRACT

COUNTY OF SAN DIEGO  
DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**TOWN SQUARE PARKWAY  
STREET IMPROVEMENTS  
10+00 TO 17+25**

Recommended for approval: [Signature]  
SUBDIVISION ENGINEER

Approved: For DOUGLAS M. ISBELL  
COUNTY ENGINEER

Engineer of work: [Signature]  
NORMAN L. SAKARA, R.C.E. 48189

Checked by: [Signature]  
Approval date: [Date]

TM 5229-1

OLIVENHAIN MUNICIPAL WATER DISTRICT

NO.	DESCRIPTION	APPROVED	DATE
1	ADD BACKFLOW VALVE, REMOVE END CAP ASSEMBLY, ADD WATER VALVES, THEN RECORD	[Signature]	7.14.09

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
1	REPLACEMENT SHEET, ADDED DWY, CURB RETURNS, RW SERVICE, GUARD RAILS, PEDESTALS, CHO EOW, REV TOT SHTS & DIT RZF	[Signature]	[Date]
2	RELOCATE MAR, ADD TRUNCATED DOWNS AND STRUCTURAL SECTION.	[Signature]	[Date]

RECORD PLAN

DATE: 12/02/05  
DRAWING NO: S00355

REVISIONS:  
LMS  
LMS  
DATE: 12/02/05  
DRAWING NO: S00355

BENCH MARK

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED LS 5894  
LOCATION: C/L INTERSECTION THORNHURST RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
ELEVATION: 622.05 DATUM: NSVD 29 (FEET)

PTG. DATE: 12/02/05  
PTG. TIME: 6:29 AM  
PLOTTER VIEW: NONE  
DRAWING NAME: IPU12.DWG  
SERVER: M:\S00355\Comp\12/02/05\12/02/05  
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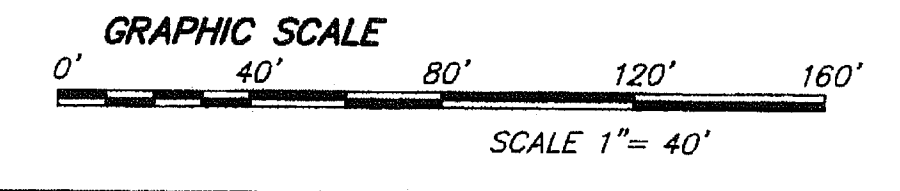
RECORD PLAN

PRINTED NAME: Paul J. Cervantes  
DATE: 7/28/09

REG. NO. 67542  
EXP. 6/30/09

REGISTERED PROFESSIONAL ENGINEER  
PAUL J. CERVANTES  
CIVIL  
STATE OF CALIFORNIA

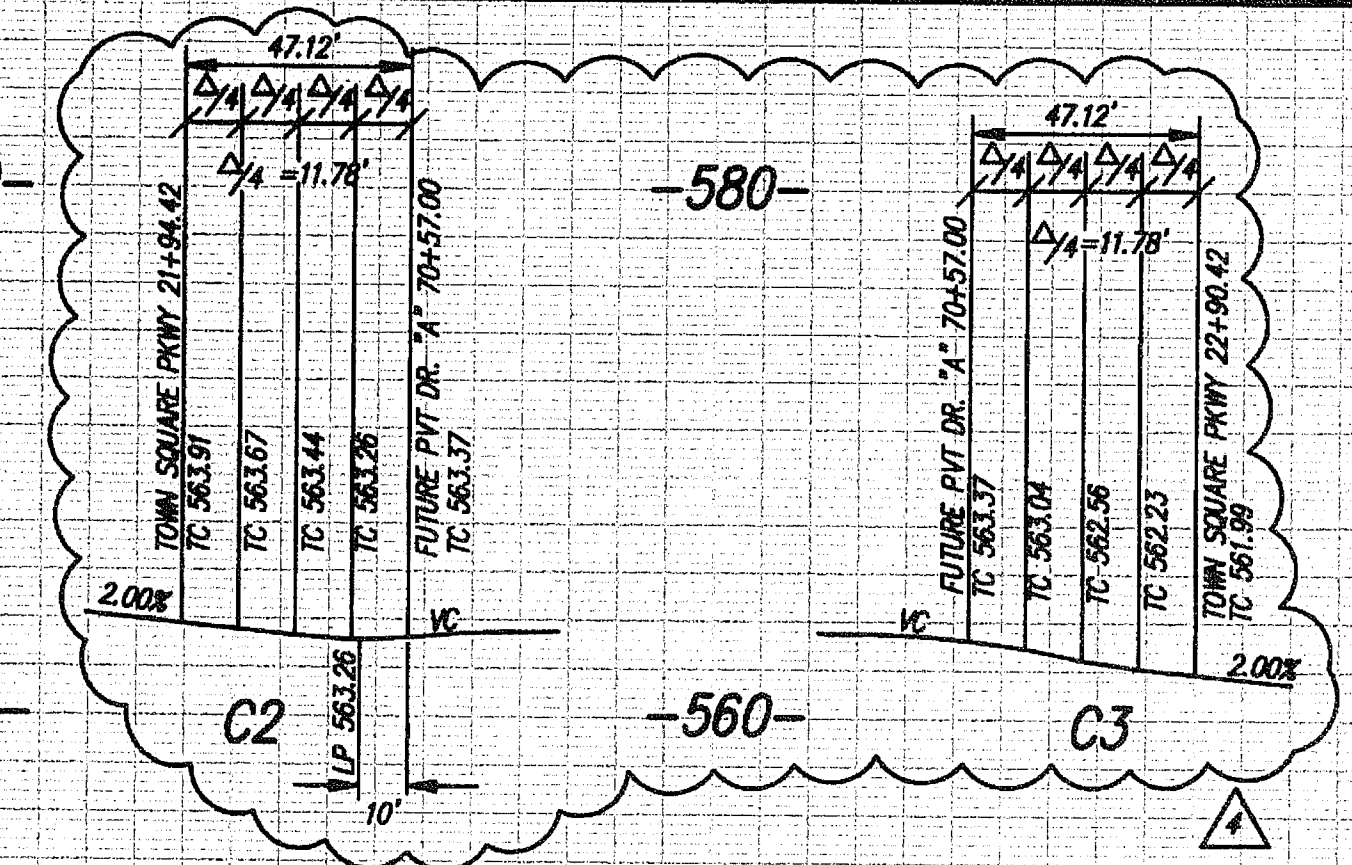
REGISTERED PROFESSIONAL ENGINEER  
NORMAN L. SAKARA  
CIVIL  
STATE OF CALIFORNIA



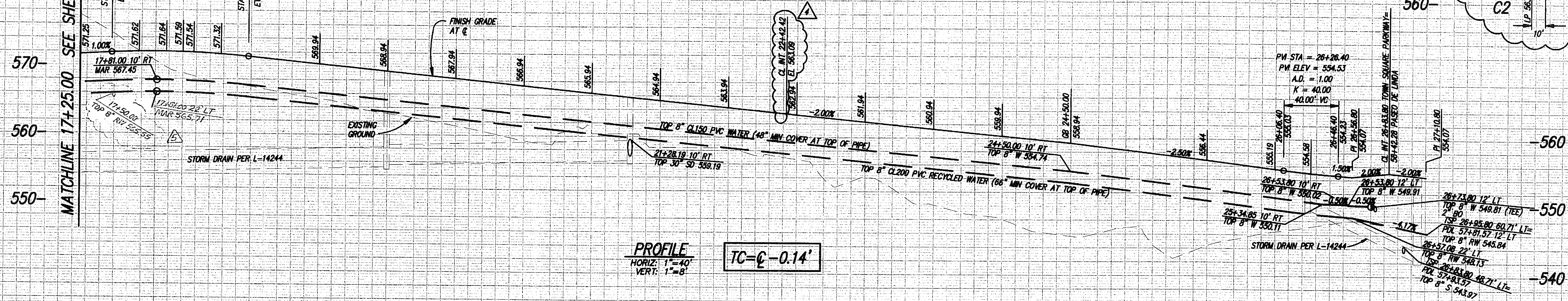
ENGINEER'S NAME: NOLTE ASSOCIATES  
PHONE NO. (951) 948-0800



HP ELEV = 571.65  
 HP STA = 17+81.20  
 PM STA = 17+97.87  
 PM ELEV = 571.98  
 A.D. = -3.00  
 K = 33.33  
 100.00' VC



MATCHLINE 17+25.00 SEE SHEET 12



STRUCTURAL SECTION STA. 10+00 TO 26+50  
 4.0" ASPHALT COVER OVER 15.5" CLASS 2 AGGREGATE BASE OVER 12" NATIVE SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION

CONSTRUCTION NOTES  
 1 AC PAVEMENT - TOWN COLLECTOR

CENTERLINE DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	N35°06'51"E		958.80'

CURB DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	N35°06'51"E	469.42'	6'	Type 'C' C&G
C2	90°00'00"	47.12'	6'	Type 'C' C&G
C3	90°00'00"	47.12'	6'	Type 'C' C&G
C4	N35°06'51"E	336.38'	6'	Type 'C' C&G
C5	N35°06'51"E	901.80'	6'	Type 'C' C&G

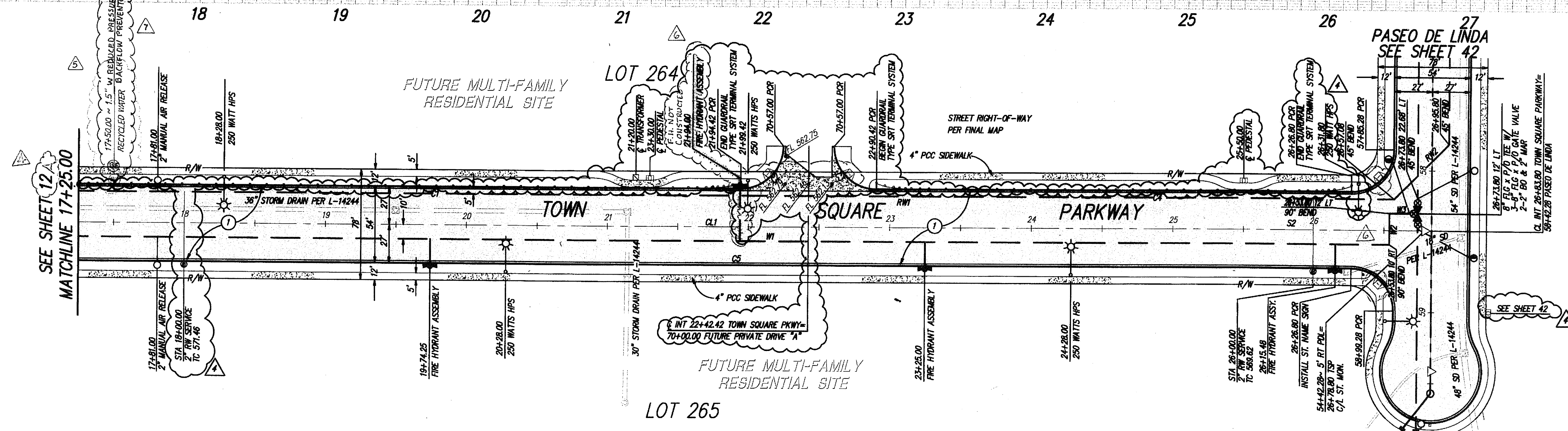
WATER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E	928.80'	8"	PVC CL150
W2	N54°53'09"W	22.00'	8"	PVC CL150
W3	N35°06'51"E	20.00'	8"	PVC CL150

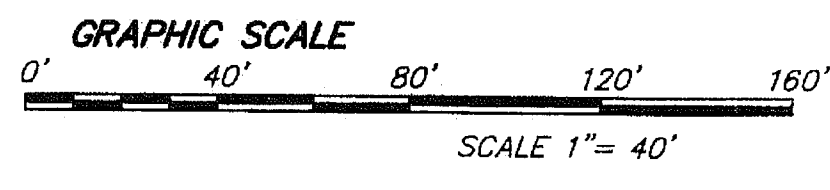
RECYCLED WATER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
RW1	N35°06'51"E	932.08'	8"	PVC CL200
RW2	N09°53'08"W	54.75'	8"	PVC CL200

NOTES  
 1. SEE SHEET 71 FOR SIGNING AND STRIPING  
 2. MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS.



PLAN  
 1"=40'



OMWD APPROVED CHANGES

NO.	DESCRIPTION	APPROD BY	DATE
1	ADD RECYCLED WATER LATERAL	Gfent	11.15.07
2	ADD BACKFLOW VALVE TO RW LATERAL, THEN RECORD PLAN	Gfent	7.14.09

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
1	REPLACEMENT SHEET, ADDED RW SERVICE, FIRE HYDRANT, DWY, GUARDRAIL & PEDESTAL, REV STREET LIGHT & TOT SHTS, CHG EOW & SHT W/EP	CS	12/10/07
2	ADD RECYCLED WATER LATERAL & OMWD CHANGE TABLE	CS	12/10/07

PERMITS

HABITAT LOSS PERMIT NO.	N/A
TENTATIVE MAP NO.	TM 5229-1
N.L.N. NO.	9375317302
REZONE PERMIT NO.	95-001
MAJOR USE PERMIT NO.	P87-036W3
GRADING PERMIT NO.	L-14244

BENCH MARK

DESCRIPTION:	3" BRASS DISK IN MONUMENT WELL STAMPED
LS 5894	
LOCATION:	CL INTERSECTION THORNHART RD & CT
RECORD FROM:	CITY OF SAN DIEGO (PT. NO. 389, R.O.S. 14482)
ELEVATION:	622.05
DATUM:	NGVD 29 (FEET)

PRIVATE CONTRACT

SHEET 152

COUNTY OF SAN DIEGO  
 DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**TOWN SQUARE PARKWAY  
 STREET IMPROVEMENTS  
 17+25 TO 26+85.80**

Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER

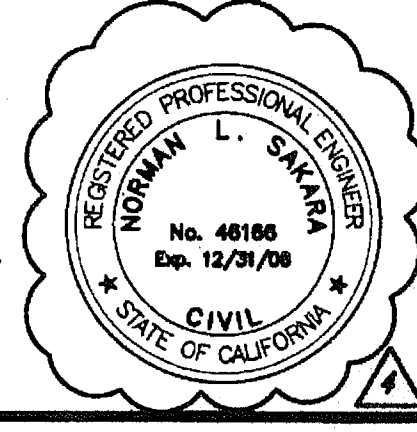
Approved: For DOUGLAS M. ISBELL  
 COUNTY ENGINEER

Engineer of work: [Signature]  
 NORMAN L. SAKARA R.C.E. 48168

Checked by: [Signature]  
 Approval date: TM 5229-1

**NOLTE**  
 BEYOND ENGINEERING

15070 AVENUE OF SCIENCE, SUITE 100 SAN DIEGO, CA 92128  
 858.385.8500 TEL. 858.385.0400 FAX WWW.NOLTE.COM



RECORD PLAN

PAUL J. CERVANTES 7/24/09

PAUL J. CERVANTES  
 CIVIL  
 STATE OF CALIFORNIA

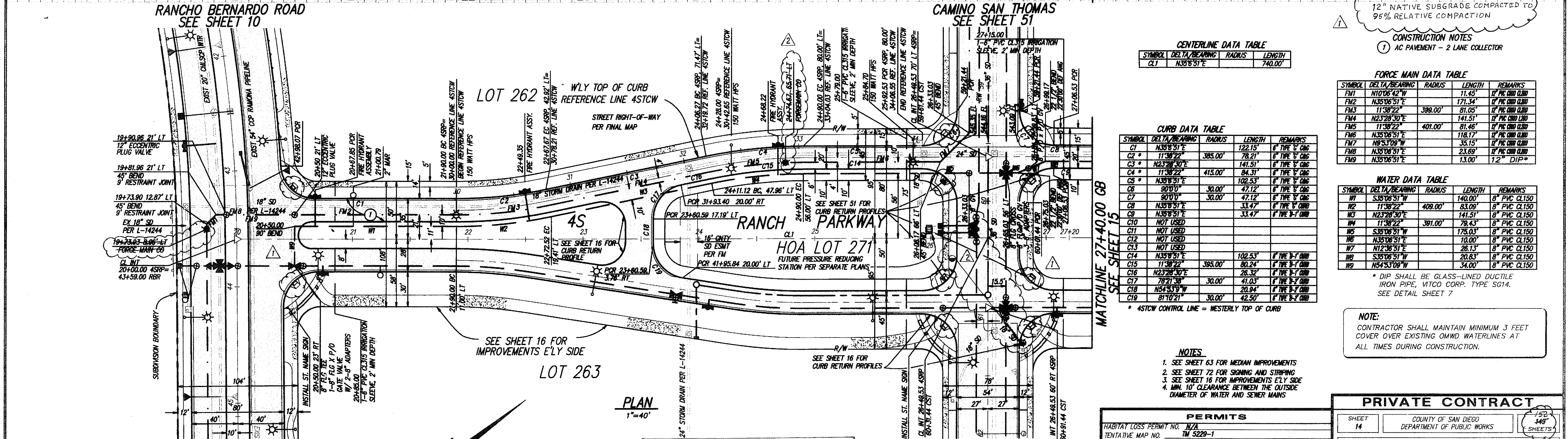
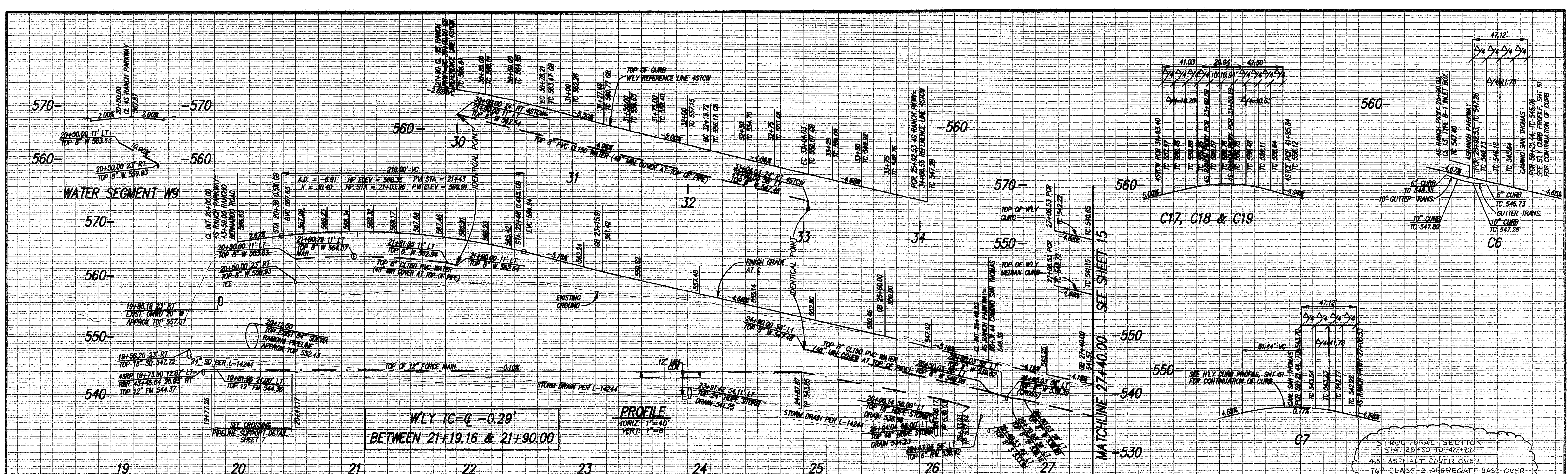
EXPIRES: 6/30/09

PLOT DATE: 12/02/05  
 PLOT TIME: 8:3 a.m.  
 PLOTTING VIEW: NONE  
 DRAWING NAME: PRTLS.DWG  
 PATH: AL\PROJECTS\050101\01

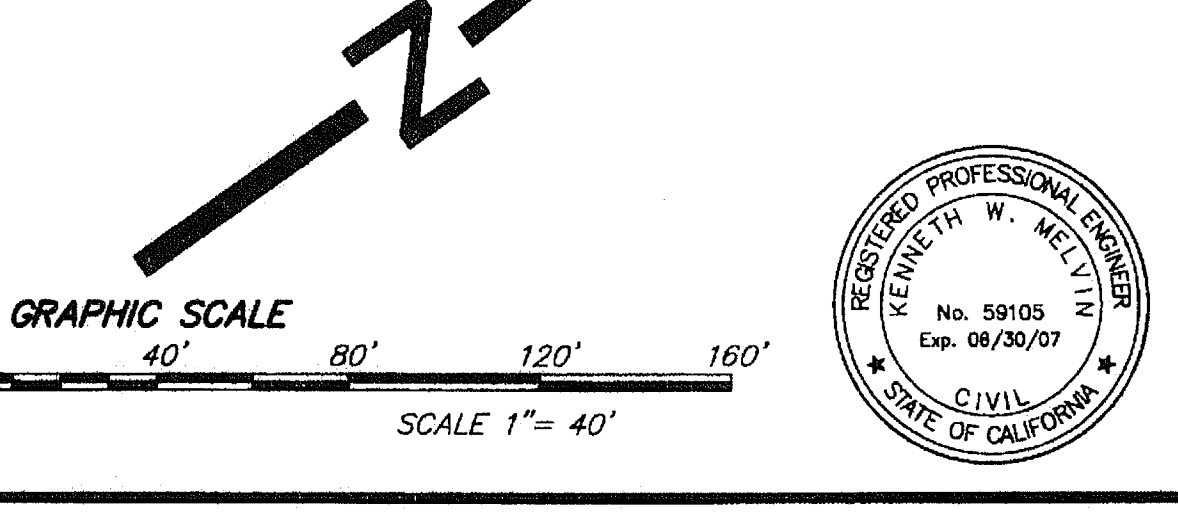
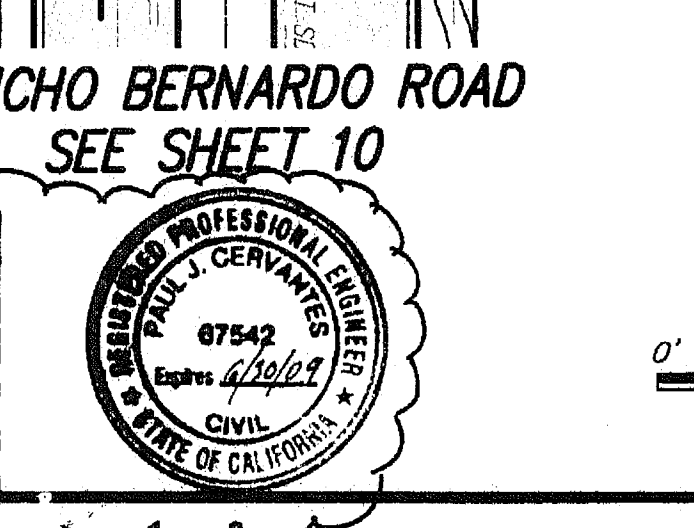
ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500

FILE NO.





**RECORD PLAN**  
 PRINTED NAME: PAUL J. CERVANTES DATE: 12/16/03  
 LICENSE NO. 67542 EXP. 6/30/09



No.	DESCRIPTION	APPROVED	DATE
1	DELETE SEWER FORCE MAIN C.O., RELOCATE RW VALUES, AND B.O., THEN RECORD PLAN.	<i>[Signature]</i>	7.14.01

**NOLTE**  
 BEYOND ENGINEERING  
 15090 AVENUE OF SCIENCE, SUITE 101, SAN DIEGO, CA 92128  
 858.385.0500 TEL. 858.385.0400 FAX WWW.NOLTE.COM

No.	Description	Approved by	Date
1	REVISE TOTAL SHEETS, ADD TRUNCATED DOMES AND STRUCTURAL SECTION, THEN RECORD PLAN.	<i>[Signature]</i>	12/17/03

**COUNTY APPROVED CHANGES**  
 REVISION: LMS  
 DRAWN: LMS  
 DATE: 12/17/03  
 CHK BY: SD0395

PERMITS	
HABITAT LOSS PERMIT NO.	N/A
TENTATIVE MAP NO.	TM 5229-1
N.O.I. NO.	9375317302
REZONE PERMIT NO.	95-001
MAJOR USE PERMIT NO.	P87-036W3
GRADING PERMIT NO.	L-14244

**BENCH MARK**  
 DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED LS 5804  
 LOCATION: CA INTERSECTION THORNHURST RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

PRIVATE CONTRACT	
SHEET	14
COUNTY OF SAN DIEGO	DEPARTMENT OF PUBLIC WORKS
PLANS FOR THE IMPROVEMENT OF:	
<b>WLY 4S RANCH PARKWAY STREET IMPROVEMENTS 20+00 TO 27+40</b>	
Recommended for approval:	<i>[Signature]</i> CIVIL ENGINEER
Engineer of work:	<i>[Signature]</i> CIVIL ENGINEER
Checked by:	<i>[Signature]</i> CIVIL ENGINEER
APPROVAL DATE:	12-17-03
PROJECT NO.:	TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (619) 385-0500  
 FILE NO.

**CENTERLINE DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH
CL1	N35°56'51"E		740.00'

**CURB DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
C1	N35°56'51"E	122.13'	8" TYPE B C&G	
C2	N11°38'22"E	395.00'	8" TYPE B C&G	
C3	N23°28'30"E	141.51'	8" TYPE B C&G	
C4	N11°38'22"E	84.31'	8" TYPE B C&G	
C5	N35°56'51"E	102.53'	8" TYPE B C&G	
C6	S90°0'0"E	47.12'	8" TYPE B C&G	
C7	S90°0'0"E	30.00'	8" TYPE B C&G	
C8	N35°56'51"E	33.47'	8" TYPE B C&G	
C9	N35°56'51"E	33.47'	8" TYPE B-1 C&G	
C10	NOT USED			
C11	NOT USED			
C12	NOT USED			
C13	NOT USED			
C14	N35°56'51"E	102.53'	8" TYPE B-1 C&G	
C15	N11°38'22"E	395.00'	8" TYPE B-1 C&G	
C16	N23°28'30"E	28.32'	8" TYPE B-1 C&G	
C17	S78°21'58"E	30.00'	8" TYPE B-1 C&G	
C18	N64°33'59"W	20.94'	8" TYPE B-1 C&G	
C19	S11°0'21"E	30.00'	8" TYPE B-1 C&G	

**FORCE MAIN DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
FM1	N10°06'42"W	11.45'	12" PVC C&G C&G	
FM2	N35°06'51"E	171.34'	12" PVC C&G C&G	
FM3	N11°38'22"E	398.00'	81.05'	12" PVC C&G C&G
FM4	N23°28'30"E	141.51'	12" PVC C&G C&G	
FM5	N11°38'22"E	401.00'	81.46'	12" PVC C&G C&G
FM6	N35°06'51"E	118.17'	12" PVC C&G C&G	
FM7	N85°3'09"W	35.15'	12" PVC C&G C&G	
FM8	N35°06'51"E	23.69'	12" PVC C&G C&G	
FM9	N35°06'51"E	13.00'	12" DIP*	

**WATER DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
W1	S35°06'51"W	140.00'	8" PVC CL150	
W2	N11°38'22"E	408.00'	83.09'	8" PVC CL150
W3	N23°28'30"E	141.51'	8" PVC CL150	
W4	N11°38'22"E	391.00'	78.43'	8" PVC CL150
W5	S35°06'51"W	175.03'	8" PVC CL150	
W6	N35°06'51"E	10.00'	8" PVC CL150	
W7	N12°36'51"E	26.13'	8" PVC CL150	
W8	S35°06'51"W	20.83'	8" PVC CL150	
W9	N54°53'09"W	34.00'	8" PVC CL150	

- NOTES**
- SEE SHEET 63 FOR MEDIAN IMPROVEMENTS
  - SEE SHEET 72 FOR SIGNING AND STRIPING
  - SEE SHEET 16 FOR IMPROVEMENTS ELY SIDE
  - MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

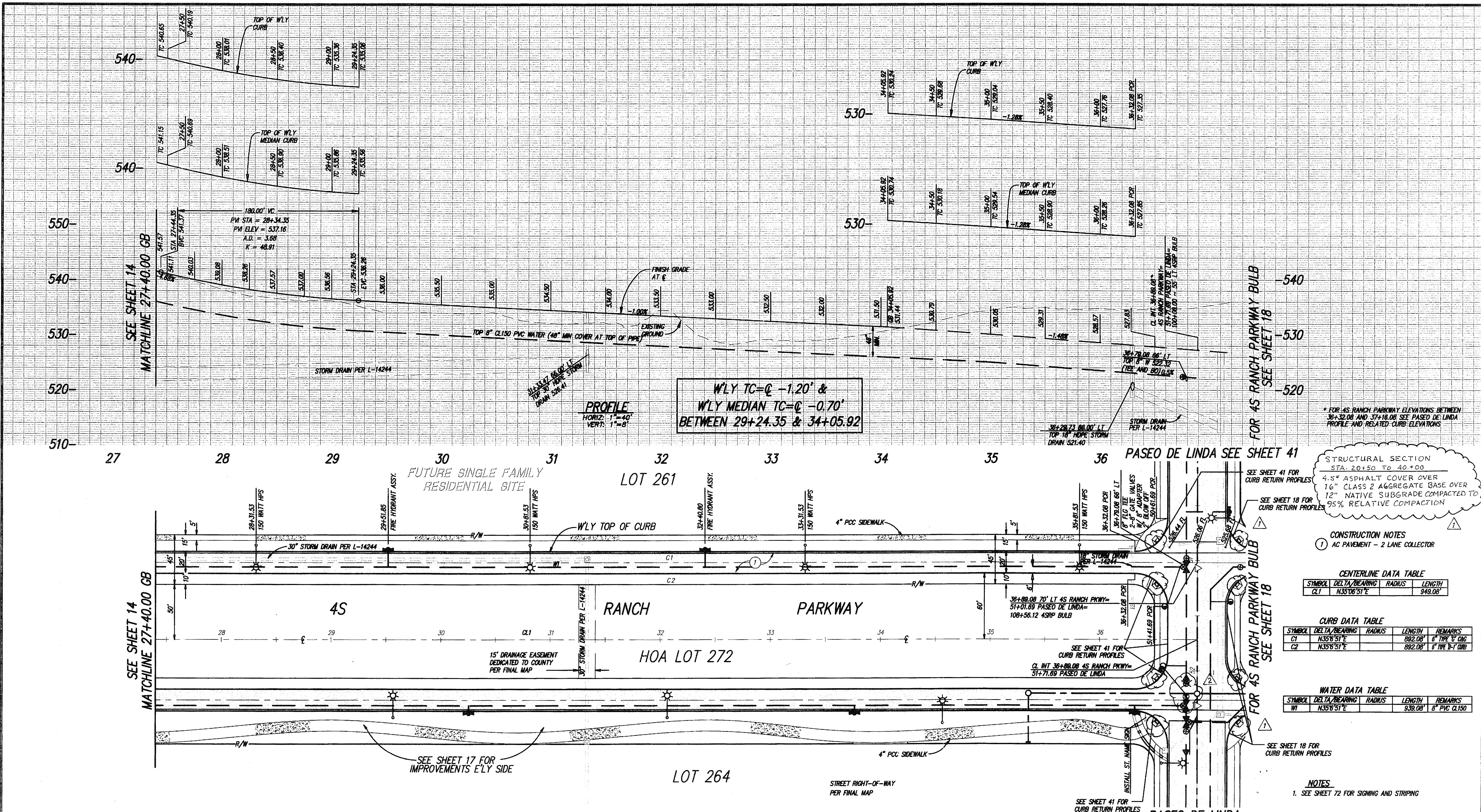
**NOTE:**  
 CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET COVER OVER EXISTING O&M WATERLINES AT ALL TIMES DURING CONSTRUCTION.

**STRUCTURAL SECTION**  
 STA. 20+50 TO 20+40+00  
 4.5" ASPHALT COVER OVER  
 16" CLASS 2 AGGREGATE BASE OVER  
 12" NATIVE SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION

- CONSTRUCTION NOTES**
- AC PAVEMENT - 2 LANE COLLECTOR



PTG. TIME: 11:2 a.m.  
 PLOTTING VIEW: NONE  
 DRAWING NAME: P/UT/ED/NG  
 DATE: 11/17/03  
 SERVER: S051  
 PATH: N:\S00055\Coord\13031\VP



**PROFILE**  
 HORIZ. 1"=40'  
 VERT. 1"=8'

WLY TC = -1.20' &  
 WLY MEDIAN TC = -0.70'  
 BETWEEN 29+24.35 & 34+05.92

STRUCTURAL SECTION  
 STA. 20+50 TO 40+00  
 4.5" ASPHALT COVER OVER  
 7.6" CLASS 2 AGGREGATE BASE OVER  
 12" NATIVE SUBGRADE COMPACTED TO  
 95% RELATIVE COMPACTION

CONSTRUCTION NOTES  
 ① AC PAVEMENT - 2 LANE COLLECTOR

CENTERLINE DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
C1	N35°06'51"E		949.08'

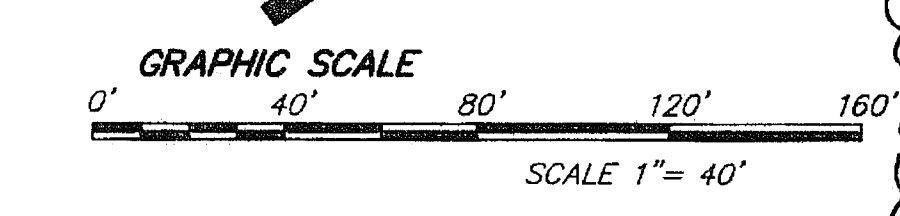
CURB DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	N35°06'51"E	882.08'	6'	TYPE B-1 CURB
C2	N35°06'51"E	882.08'	6'	TYPE B-1 CURB

WATER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E		939.08'	8" PVC CL150

NOTES  
 1. SEE SHEET 72 FOR SIGNING AND STRIPING



**RECORD PLAN**

REGISTERED PROFESSIONAL ENGINEER  
 PAUL J. CERVANTES  
 No. 67542  
 Exp. 08/30/07  
 CIVIL  
 STATE OF CALIFORNIA

PRINTED NAME: PAUL J. CERVANTES DATE: 11/24/03  
 RCE NO. 67542 EXP. 6/30/09

REGISTERED PROFESSIONAL ENGINEER  
 KENNETH W. MELTON  
 No. 59105  
 Exp. 08/30/07  
 CIVIL  
 STATE OF CALIFORNIA

**NOLTE**  
 BEYOND ENGINEERING

15090 AVENUE OF SCIENCE, SUITE 301 SAN DIEGO, CA 92128  
 619-595-0500 TEL. 619-595-0400 FAX. WWW.NOLTE.COM

DATE: 11/17/03  
 JOB NO: S00355

OLIVENHAIN MUNICIPAL WATER DISTRICT			PERMITS	
NO.	DESCRIPTION	APPROVED	DATE	HABITAT LOSS PERMIT NO. N/A
1	RELOCATE WATER VALVE, THEN RECORD PLAN	Grant	7.14.03	TM 5228-1

COUNTY APPROVED CHANGES			BENCH MARK	
No.	Description	Approved by	Date	DESCRIPTION
1	REVISE TOTAL SHEETS, ADD TRUNCATED DOMES AND STRUCTURAL SECTION, THEN RECORD PLAN	RS	11/17/03	3" BRASS DISK IN MONUMENT WELL STAMPED LS 5894

RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14482)  
 ELEVATION: 622.05 DATUM: MGD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 15 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**WLY 4S RANCH PARKWAY**  
 STREET IMPROVEMENTS  
 27+40 TO 36+89.08

Recommended for approval: [Signature] For DOUGLAS M. ISBELL  
 SUBDIVISION ENGINEER COUNTY ENGINEER

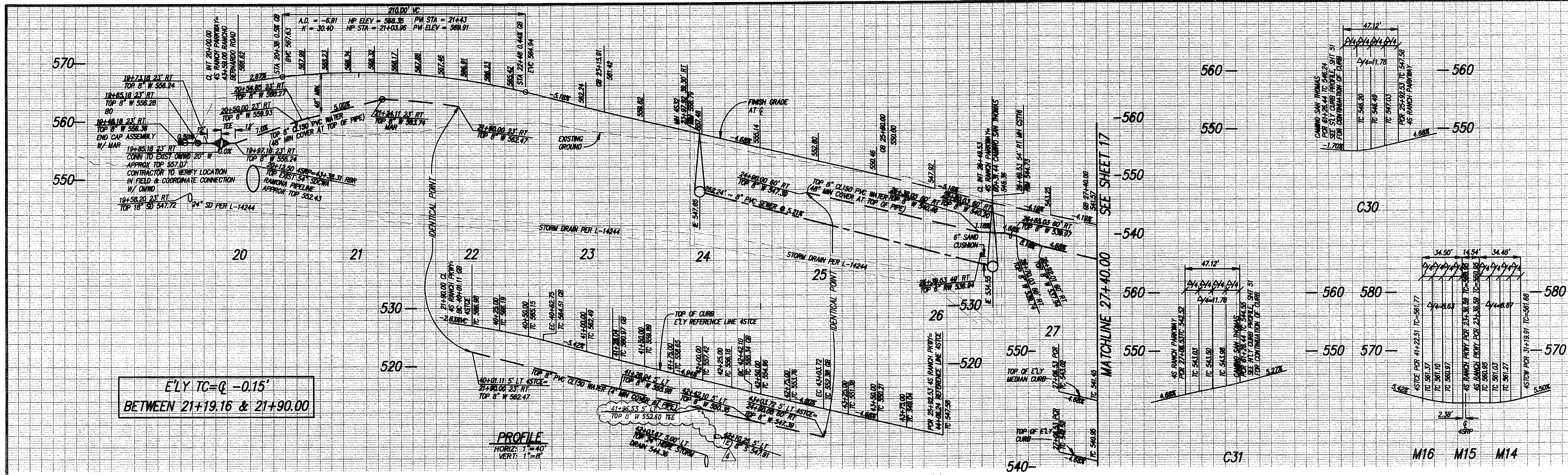
Checked by: [Signature] 12-14-03  
 DATE: 12/14/03

TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (619) 385-0500

FILE NO.





E'LY TC=Q -0.15'  
BETWEEN 21+19.16 & 21+90.00

PROFILE  
HORIZ: 1"=40'  
VERT: 1"=8'

STRUCTURAL SECTION  
STA. 20+50 TO 40+00  
4.5" ASPHALT COVER OVER  
16" CLASS 2 AGGREGATE BASE OVER  
12" NATIVE SUBGRADE COMPACTED TO  
95% RELATIVE COMPACTION

NOTE:  
CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET  
COVER OVER EXISTING OAWD WATERLINES AT  
ALL TIMES DURING CONSTRUCTION.

RANCHO BERNARDO ROAD  
SEE SHEET 10

CAMINO SAN THOMAS  
SEE SHEET 51

CENTERLINE DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	N35°06'51"E		740.00'

CONSTRUCTION NOTES  
① AC PAVEMENT - 2 LANE COLLECTOR

CURB DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C25	N35°06'51"E		119.54'	6" TYPE 'B' C&G
C26*	S49°39'30"W	400.00'	61.63'	6" TYPE 'B' C&G
C27*	N43°36'30"E		178.36'	6" TYPE 'B' C&G
C28*	S49°39'30"W	400.00'	61.63'	6" TYPE 'B' C&G
C29*	N35°06'51"E		102.53'	6" TYPE 'B' C&G
C30	90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C31	90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C32	N35°06'51"E		33.47'	6" TYPE 'B' C&G
C33	N35°06'51"E		33.47'	6" TYPE 'B' C&G
C34	NOT USED			
C35	NOT USED			
C36	N35°06'51"E		102.53'	6" TYPE 'B' C&G
C37	S49°39'30"W	380.00'	58.55'	6" TYPE 'B' C&G
C38	N43°36'30"E		48.25'	6" TYPE 'B' C&G
M14	101°38'22"	20.00'	35.48'	6" TYPE 'B' C&G
M15	N54°53'00"W		15.88'	6" TYPE 'B' C&G
M16	S8°48'39"	20.00'	34.50'	6" TYPE 'B' C&G

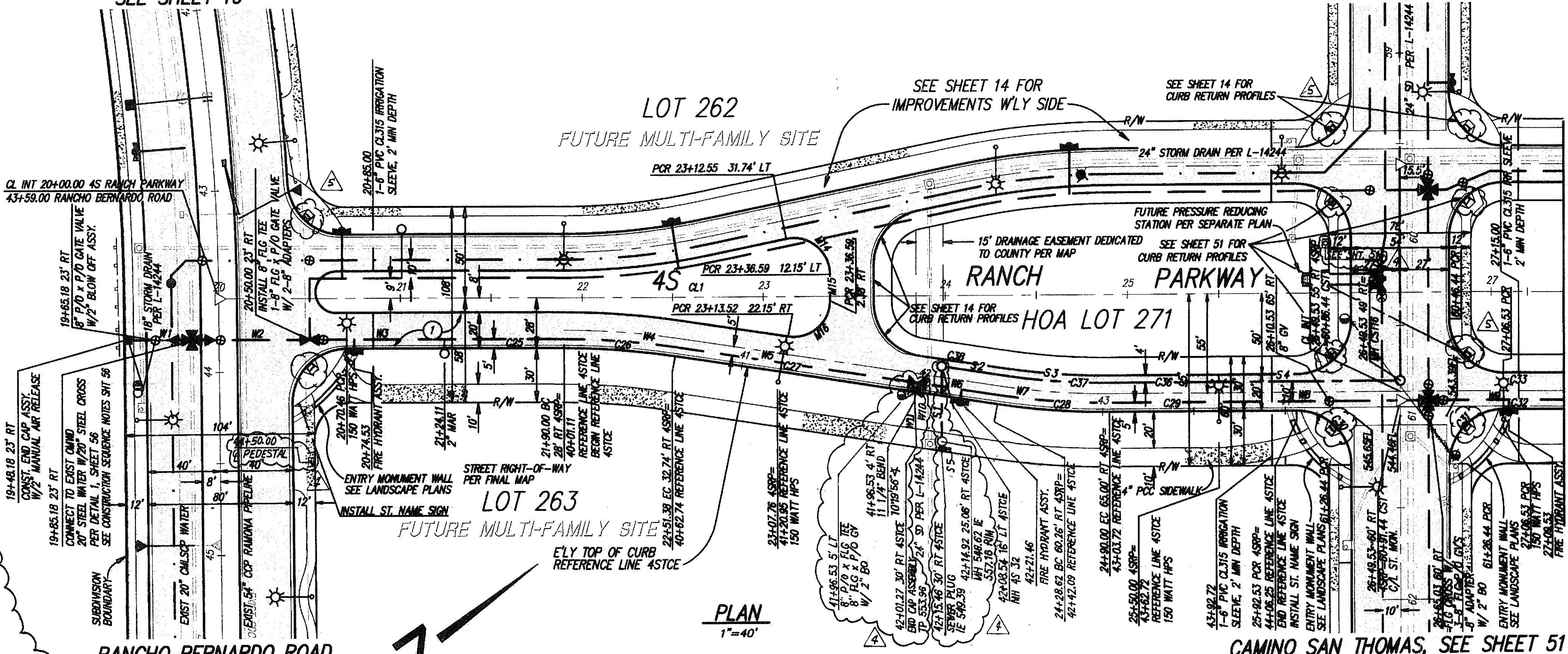
WATER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E		37.00'	8" PVC CL150
W2	N35°06'51"E		64.82'	8" PVC CL150
W3	N35°06'51"E		150.00'	8" PVC CL150
W4	S49°39'30"W	405.00'	62.40'	8" PVC CL150
W5	N43°36'30"E		133.79'	8" PVC CL150
W6	N43°36'30"E		45.56'	8" PVC CL150
W7	S49°39'30"W	385.00'	60.88'	8" PVC CL150
W8	N35°06'51"E		175.03'	8" PVC CL150
W9	N43°36'30"E		74.97'	8" PVC CL150
W10	N46°03'30"W		9.00'	8" PVC CL150
W11	N56°23'25"W		26.43'	8" PVC CL150

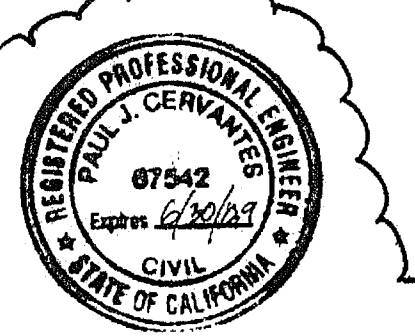
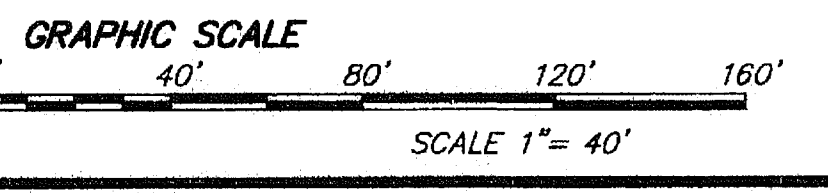
SEWER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N34°37'09"W		41.55'	8" PVC SDR35
S2	N43°36'30"E		33.55'	8" PVC SDR35
S3	S49°39'30"W	384.00'	59.16'	8" PVC SDR35
S4	N35°06'51"E		159.53'	8" PVC SDR35
S5	N52°20'44"E		4.97'	8" PVC SDR35

NOTES  
1. SEE SHEET 63 FOR MEDIAN IMPROVEMENTS  
2. SEE SHEET 72 FOR SIGNING AND STRIPING  
3. MIN. 10' CLEARANCE BETWEEN THE OUTSIDE  
DIAMETER OF WATER AND SEWER MAINS



PLAN  
1"=40'



**NOLTE**  
BEYOND ENGINEERING  
15900 AVENUE OF SCIENCES, SUITE 101 SAN DIEGO, CA 92128  
958.385.0500 TEL 958.385.0400 FAX WWW.NOLTE.COM

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
1	ADDED SEWER MH, REV WTR, ADD BLOW OFF & PEDESTALS, REV TOT SHIS	RLS	12/16/05
2	ADD TRUNCATED DOMES AND STRUCTURAL SECTION, THEN RECORD PLAN	RLS	9/18/06

**PERMITS**  
HABITAT LOSS PERMIT NO. 117A  
TENTATIVE MAP NO. TM 5229-1  
N.O.I. NO. - 9378317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. P87-036W3  
GRADING PERMIT NO. L-14244

**BENCH MARK**  
DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
LS 5884  
LOCATION: C/L INTERSECTION THORNHILL RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**  
SHEET 16 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 152 SHEETS  
PLANS FOR THE IMPROVEMENT OF:  
**E'LY 4S RANCH PARKWAY STREET IMPROVEMENTS 20+00 TO 27+40**

Recommended for approval: [Signature]  
SUBDIVISION ENGINEER [Signature]  
Checked by: [Signature] 12-17-05  
Approved by: [Signature] 2/6/04  
TM 5229-1

PTG. DATE: 12/17/05  
SERVER: S051  
PLOTING VIEW: NONE  
DRAWING NAME: IPI16LIND  
DATE: 12/17/05  
PATH: A:\520355\Draw\IPI16\IPI16LIND

**RECORD PLAN**  
PRINTED NAME: Paul J. Cervantes DATE: 7/24/09  
EXP: 6/30/09  
NO. 67542

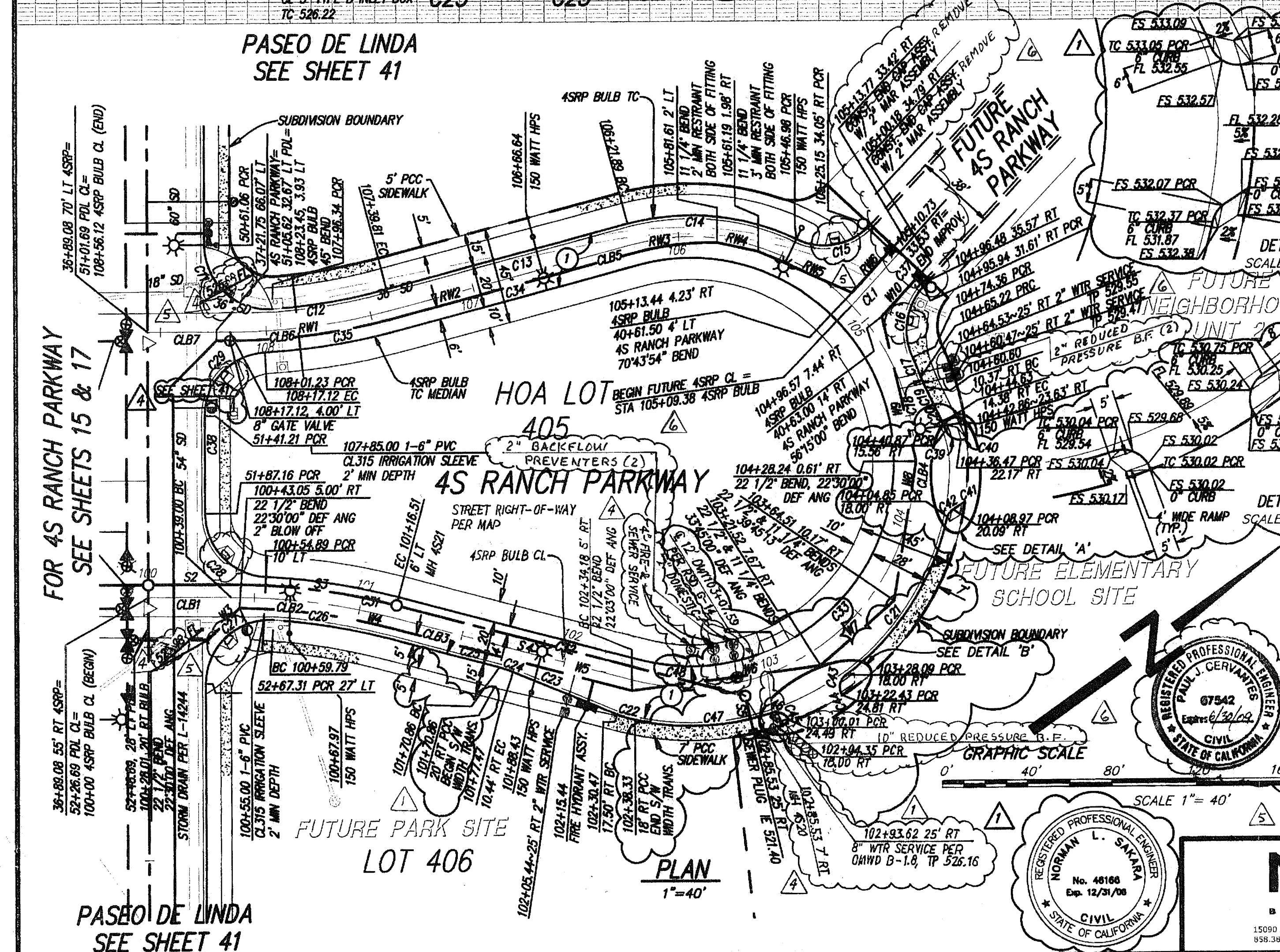
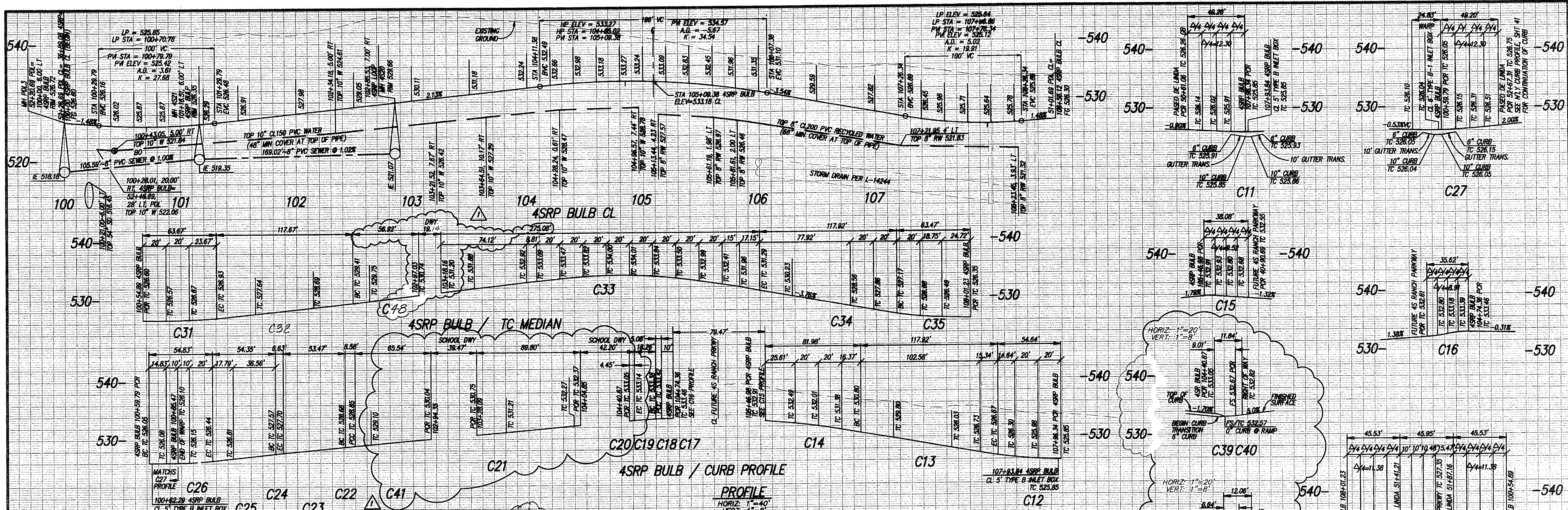
ENGINEER'S NAME: NOLTE ASSOCIATES  
PHONE NO. (618) 385-0500

FILE NO.









**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C11	93°58'11"	30.00'	48.20'	6" TYPE B C&G
C12	104°44'44"	280.00'	54.64'	6" TYPE B C&G
C13	N20°20'57"E	117.92'	117.92'	6" TYPE B C&G
C14	40°29'27"	116.00'	81.98'	6" TYPE B C&G
C15	72°43'33"	30.00'	38.08'	6" TYPE B C&G
C16	88°11'11"	30.00'	35.62'	6" TYPE B C&G
C17	4°56'21"	116.00'	10.00'	6" TYPE B C&G
C18	5°48'27"	50.00'	5.08'	6" TYPE B C&G
C19	N80°47'27"W	30.00'	48.20'	6" TYPE B C&G
C20	5°08'08"	30.00'	4.45'	6" TYPE B C&G
C21	47°29'28"	124.00'	88.00'	6" TYPE B C&G
C22	N80°47'27"W	30.00'	48.20'	6" TYPE B C&G
C23	N57°30'44"E	50.00'	63.47'	6" TYPE B C&G
C24	7°35'41"	50.00'	6.63'	6" TYPE B C&G
C25	N48°55'03"E	50.00'	54.35'	6" TYPE B C&G
C26	10°50'01"	290.00'	54.83'	6" TYPE B C&G
C27	93°58'11"	30.00'	48.20'	6" TYPE B C&G
C28	86°57'55"	30.00'	45.53'	6" TYPE B C&G
C29	86°57'55"	30.00'	45.53'	6" TYPE B C&G
C30	NOT USED			
C31	11°46'07"	310.00'	63.56'	6" TYPE B-1 C&G
C32	N48°55'03"E	50.00'	112.67'	6" TYPE B-1 C&G
C33	184°10'31"	96.00'	275.00'	6" TYPE B-1 C&G
C34	N20°20'57"E	117.92'	117.92'	6" TYPE B-1 C&G
C35	11°43'50"	310.00'	63.47'	6" TYPE B-1 C&G
C36	NOT USED			
C37	N17°53'10"W	4.02'	6" TYPE B C&G	
C38	N45°50'03"W	45.68'	6" TYPE B C&G	
C39	N45°50'03"W	7.00'	9.01'	C&G TRANSITION
C40	N30°34'25"E	2.83'	6.64'	C&G TRANSITION
C41	N2°04'12"E	10.61'	10.61'	C&G TRANSITION
C42	N4°24'10"W	7.00'	5.42'	C&G TRANSITION
C43	86°50'13"	7.00'	10.61'	C&G TRANSITION
C44	N87°47'03"W	0.19'	0.19'	C&G TRANSITION
C45	S78°17'08"E	0.51'	0.51'	C&G TRANSITION
C46	84°19'11"	7.00'	10.30'	C&G TRANSITION
C47	S07°16'53"	124.00'	65.54'	6" TYPE B C&G
C48	S37°38'16"	96.00'	56.92'	6" TYPE B-1 C&G

**4SRP BULB CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
CLB1	N30°06'51"E	300.00'	38.00'	
CLB2	14°48'12"	300.00'	77.51'	
CLB3	N48°55'03"E	108.00'	117.92'	
CLB4	S07°20'57"W	108.00'	107.92'	
CLB5	S07°20'57"W	300.00'	117.92'	
CLB6	14°48'55"	300.00'	77.31'	
CLB7	S32°08'51"W	300.00'	38.00'	

**WATER DATA TABLE**

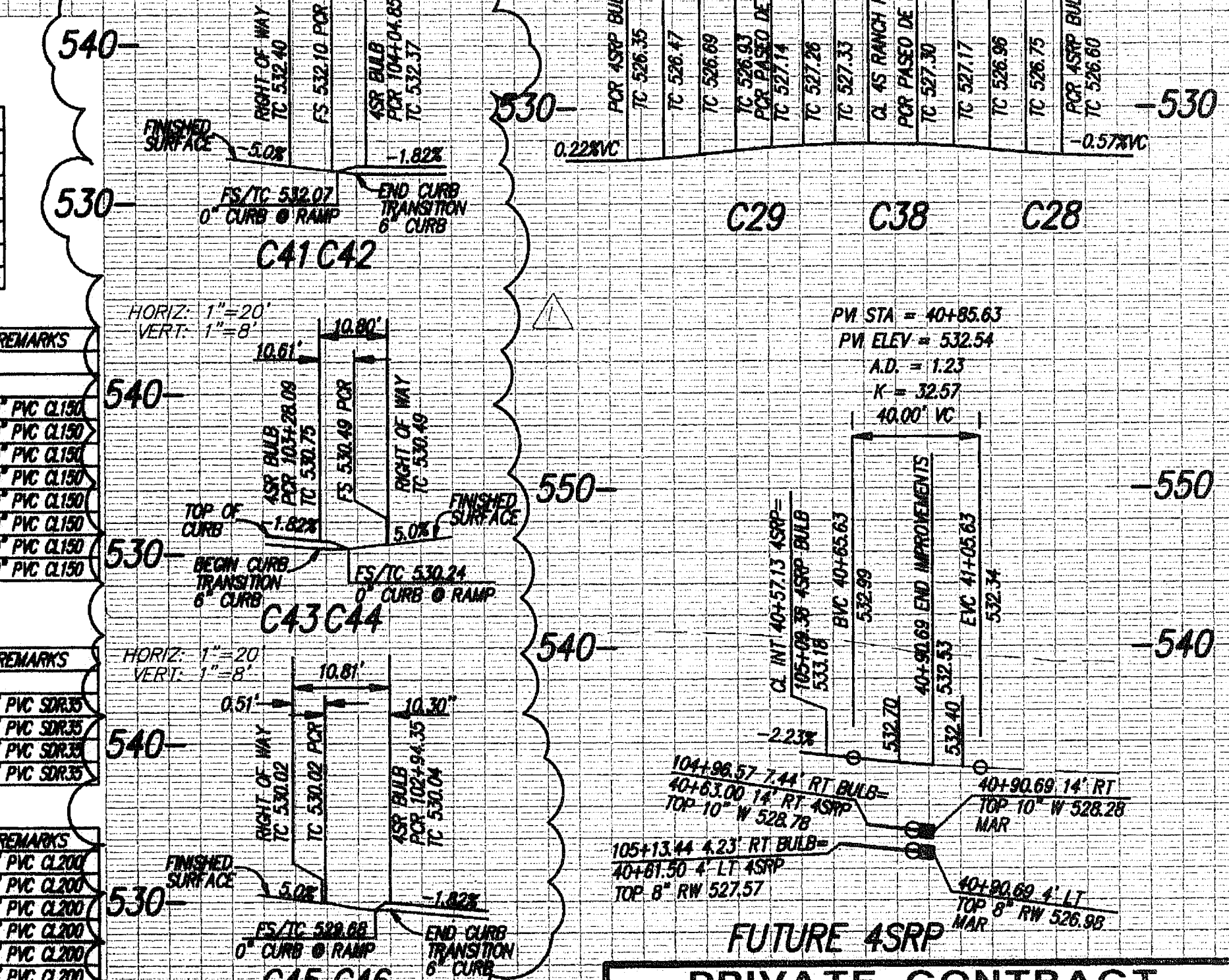
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	NOT USED			
W2	NOT USED			
W3	N8°53'08"W	21.18'	10' P&C CL150	
W4	14°01'30"	285.00'	72.24'	10' P&C CL150
W5	N48°55'03"E	117.92'	117.92'	10' P&C CL150
W6	N27°52'03"E	80.00'	80.00'	10' P&C CL150
W7	N45°50'03"E	48.35'	10' P&C CL150	
W8	N45°50'03"E	68.00'	10' P&C CL150	
W9	N88°08'10"W	70.00'	10' P&C CL150	
W10	N11°53'10"W	27.69'	10' P&C CL150	

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	NOT USED			
S2	N35°08'51"E	36.00'	6" P&C SDR36	
S3	14°48'12"	306.00'	78.06'	6" P&C SDR36
S4	N48°55'03"E	170.29'	6" P&C SDR36	
S5	S87°50'11"E	18.00'	6" P&C SDR36	

**RECYCLED WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
RW1	15°57'28"	304.00'	84.67'	6" P&C CL200
RW2	N20°20'57"E	117.92'	6" P&C CL200	
RW3	15°58'48"	414.00'	38.08'	6" P&C CL200
RW4	N47°35'44"E	20.00'	6" P&C CL200	
RW5	N58°50'44"E	48.23'	6" P&C CL200	
RW6	N11°53'10"W	28.18'	6" P&C CL200	



**RECORD PLAN**

PAUL J. CERVANTES  
RCE NO. 67542  
EXP. 6/30/09

**NOLTE**  
BEYOND ENGINEERING  
15000 AVENUE OF SCIENCE, SUITE 101, SAN DIEGO, CA 92128  
959.385.0500 TEL. 959.385.0400 FAX  
WWW.NOLTE.COM

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
TENTATIVE MAP NO. TM 5229-1  
N.O.I. NO. 8375317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. P87-036W3  
GRADING PERMIT NO. L-14244

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REPLACEMENT SHEET, ADDED DRIVEWAYS, REV EDW	RUS.	10/11/04
2	ADDED SERVICES & PEDESTAL, REV X-GUTTER CALLOUT & T&T SHEETS	RUS.	12/21/05
3	ADD TRUNCATED DOMES THEN RECORD PLAN	RUS.	01/18/08

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED LS 5894  
LOCATION: C/A INTERSECTION THORNHILT RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14482)  
ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 18A COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 152

PLANS FOR THE IMPROVEMENT OF:  
**4S RANCH PARKWAY BULB STREET IMPROVEMENTS**  
100+00.00 TO 108+56.12

Recommended for approval: [Signature]  
SUBDIVISION ENGINEER

Approved: [Signature]  
COUNTY ENGINEER

Engineer of work: [Signature]  
NORMAN L. BAKARA R.C.E. 48188

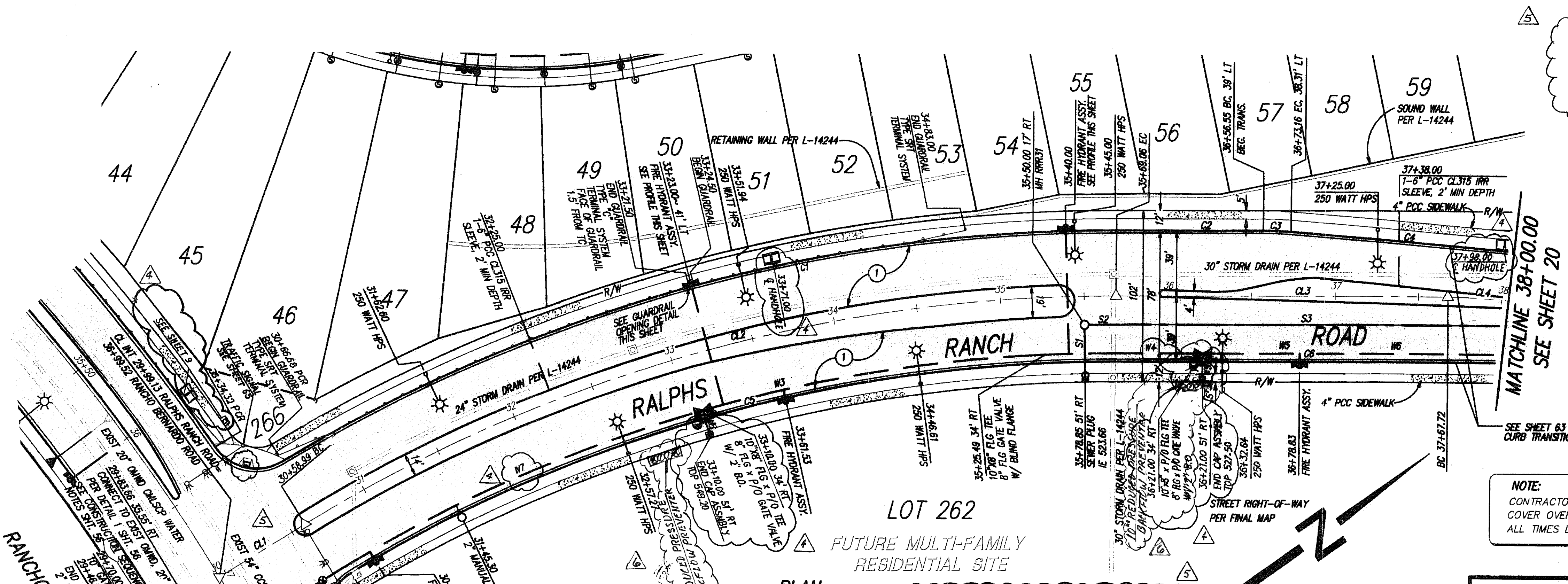
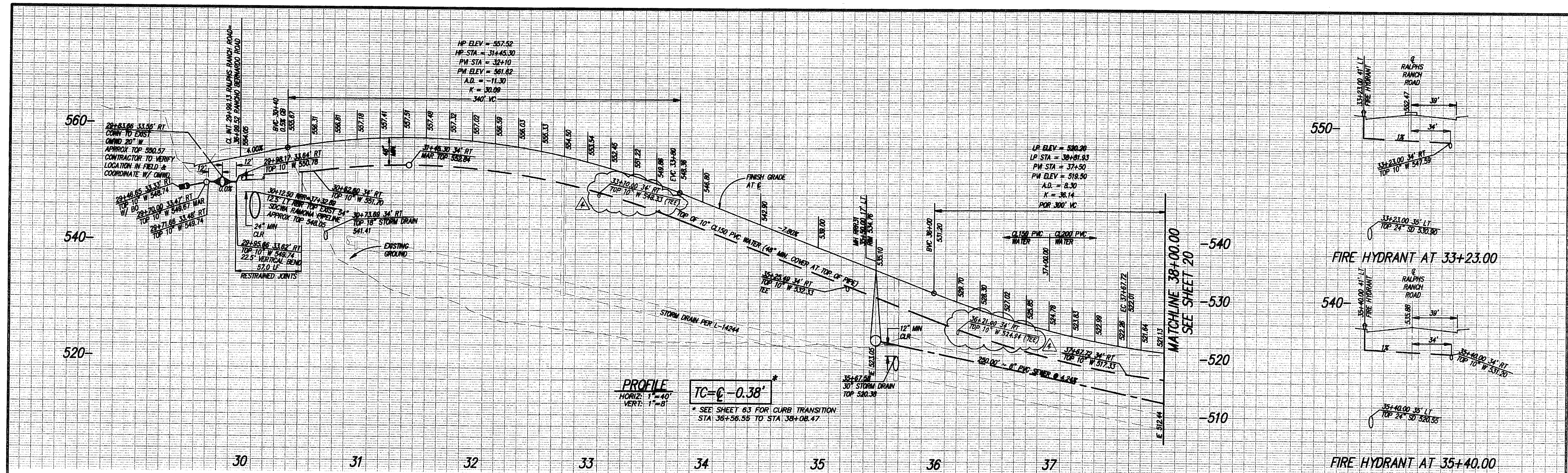
Checked by: [Signature]  
Approval date: 10/11/04

TM 5229-1

PLOT DATE: 09/01/04  
SERIES: S051  
PATH: N:\BDC055\Draw\18A\18A.PLT

ENGINEERS NAME: NOLTE ASSOCIATES  
PHONE NO. (619) 385-0500





**CONSTRUCTION NOTES**

- AC PAVEMENT - 4 LANE COLLECTOR

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
CL1	N03°10'28"E		59.86'	
CL2	31°56'23"	915.00'	510.07'	
CL3	N35°06'51"E		188.66'	
CL4	67°05'57"	300.00'	32.28'	

**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	31°27'29"	954.00'	523.78'	6" TYPE G C&G
C2	N35°06'51"E		87.48'	6" TYPE G C&G
C3	4°45'49"	200.00'	16.63'	6" TYPE G C&G
C4	N39°52'40"E		130.39'	6" TYPE G C&G
C5	31°22'47"	876.00'	479.77'	6" TYPE G C&G
C6	N35°06'51"E		226.96'	6" TYPE G C&G

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N56°14'44"W	34.00'	8" PVC SDR 35	
S2	T17°35'	808.00'	18.70'	8" PVC SDR 35
S3	N35°06'51"E		219.44'	8" PVC SDR 35

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N33°10'06"E		37.00'	10" PVC CL150
W2	N35°10'06"E		75.34'	10" PVC CL150
W3	78°13'18"	881.00'	249.43'	10" PVC CL150
W4	N35°06'51"E		51.94'	10" PVC CL150
W5	N35°06'51"E		73.00'	10" PVC CL150
W6	N35°06'51"E		95.45'	10" PVC CL200
W7	15°43'05"	681.00'	241.59'	10" PVC CL150
W8	H71°05'27"W		12.00'	8" PVC CL150
W9	H54°53'09"W		12.00'	8" PVC CL150

- NOTES:**
- SEE SHEET 63 FOR MEDIAN IMPROVEMENTS
  - SEE SHEET 70 FOR SIGNING AND STRIPING
  - SEE SHEET 65 FOR TRAFFIC SIGNAL PLAN AT INTERSECTION RALPHS RANCH ROAD AND RANCHO BERNARDO ROAD
  - MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**PRIVATE CONTRACT**

SHEET 19 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 152/4 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**RALPHS RANCH ROAD STREET IMPROVEMENTS 29+99.13 TO 38+00**

Recommended for approval: *Richard M. Isbell*  
 SUBDIVISION ENGINEER

Engineer of work: *Paul J. Cervantes*  
 CIVIL ENGINEER

Checked by: *Ken Melvin* 12-17-03  
 Approved by: *Ken Melvin* 12-17-03  
 TM 5229-1

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 A.O.L. NO. 9378317362  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-038W3  
 GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LS 5894  
 LOCATION: C/L INTERSECTION THORNHUNT RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14482)  
 ELEVATION: 622.05 DATUM: MVD 28 (FEET)

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	ADD HANDHOLES, REV WATER TEES & WTR DATA TABLE, REV TOT SHTS	RIS	12/21/03
2	ADD TRUNCATED DOMES AND STRUCTURAL SECTION, THEN RECORD PLAN	RIS	12/16/03

**RECORD PLAN**

PRINTED NAME: PAUL J. CERVANTES DATE: 7/24/03  
 RCE: NO. 67542 EXP: 6/30/09

**NOLTE**  
 BEYOND ENGINEERING  
 15090 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 619.583.0500 TEL. 619.583.0400 FAX WWW.NOLTE.COM

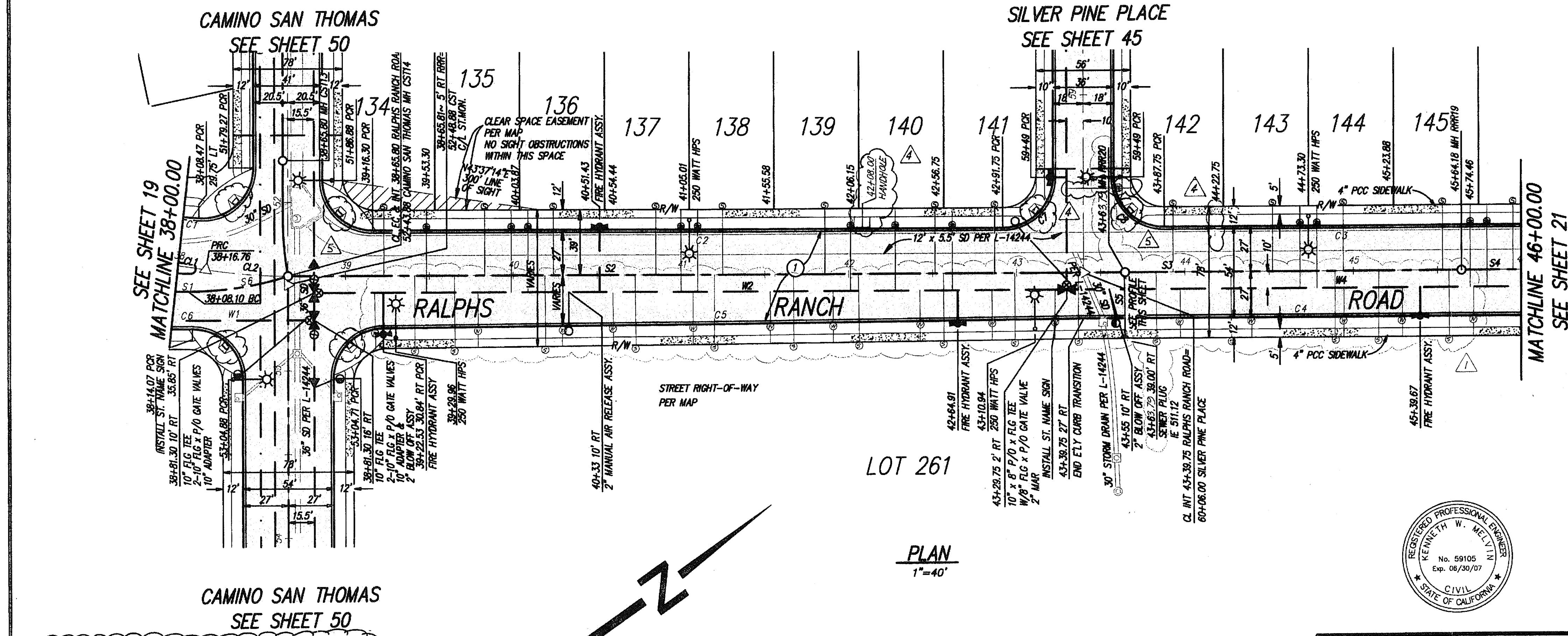
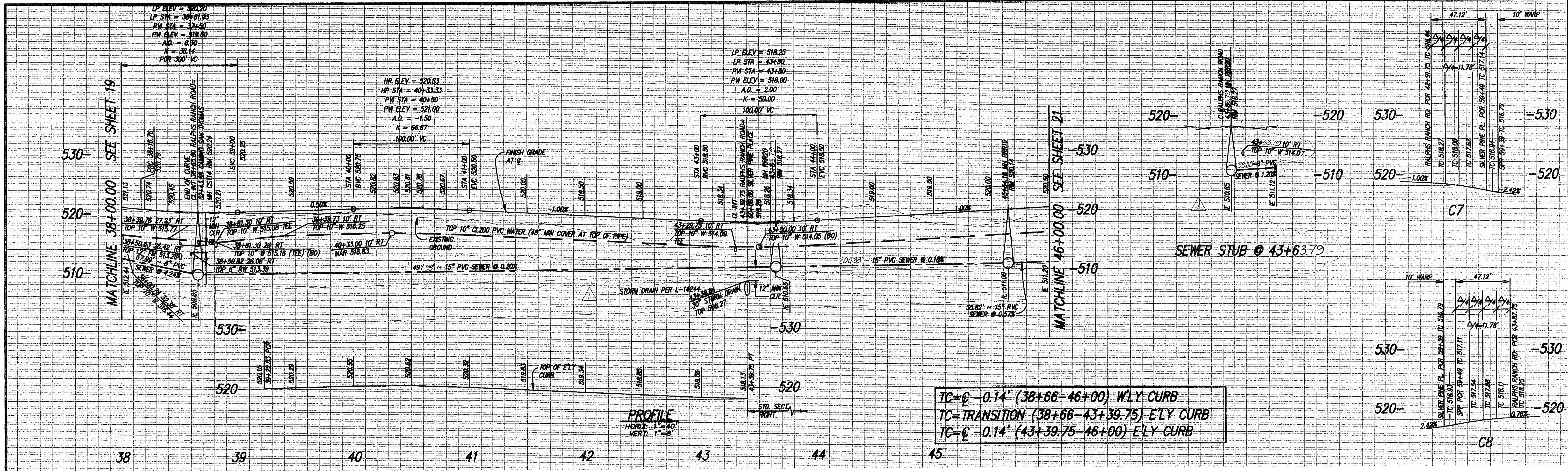
**OLIVENHAIN MUNICIPAL WATER DISTRICT**

NO.	DESCRIPTION	APPROVED	DATE
1	DELETE 2" B.O., ADD 2-10" BACKFLOW PREVENTERS, THEN RECORD PLAN	GR	7.14.09

PTG. TIME: 5:51 P.M.  
 PLOTTING NEW: INWORK  
 DRAWING NAME: R19191.DWG  
 PLOT DATE: 11/20/03  
 SERVER: S057  
 PATH: W:\S050351\Draw\14244\1\1

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (619) 385-0500





**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	0312'20"	300.00'	16.76'
CL2	0822'00"	300.00'	49.04'
CL3	N35'06'51"E	300.00'	734.20'

**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	N35'06'51"E	9.32'	6.19'	6" TYPE 'C' C&G
C2	N35'06'51"E	376.44'	6.19'	6" TYPE 'C' C&G
C3	N35'06'51"E	212.25'	6.19'	6" TYPE 'C' C&G
C4	N35'06'51"E	260.25'	6.19'	6" TYPE 'C' C&G
C5	N34'35'14"E	417.24'	6.19'	6" TYPE 'C' C&G
C6	N35'06'51"E	12.46'	6.19'	6" TYPE 'C' C&G
C7	90'00'00"	30.00'	47.12'	6" TYPE 'C' C&G
C8	90'00'00"	30.00'	47.12'	6" TYPE 'C' C&G

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35'06'51"E	81.42'	10" PVC CL200	
W2	N35'06'51"E	448.45'	10" PVC CL200	
W3	NOT USED			
W4	N35'06'51"E	270.25'	10" PVC CL200	

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N35'06'51"E	7.78'	8" PVC SDR35	
S2	N35'06'51"E	49.79'	15" PVC SDR35	
S3	N35'06'51"E	200.33'	15" PVC SDR35	
S4	N35'06'51"E	35.82'	15" PVC SDR35	
S5	N35'06'51"E	38.00'	8" PVC SDR35	
S6	17'15'14"	200.00'	60.23'	8" PVC SDR35

STRUCTURAL SECTION STA 39+00 TO 49+00  
 4.0" ASPHALT COVER OVER  
 14.5" CLASS 2 AGGREGATE BASE OVER  
 12" NATIVE SUBGRADE COMPACTED TO  
 95% RELATIVE COMPACTION

**CONSTRUCTION NOTES**  
 ① AC PAVEMENT - TOWN COLLECTOR

**NOTES**  
 1. SEE SHEET 70 FOR SIGNING AND STRIPING  
 2. MIN. 10" CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.I. NO. 9375317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

**PRIVATE CONTRACT**

SHEET 20 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**RALPHS RANCH ROAD**  
**STREET IMPROVEMENTS**  
**38+00 TO 46+00**

Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER

Approved by: [Signature]  
 COUNTY ENGINEER

Checked by: [Signature]  
 DATE: 12-14-03

Applying Title: TM 5229-1

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	ADDED SEWER AND WATER LATERALS, REV SEWER	RAS	10/1/04
2	ADDED HANDHOLE, REVISED WATER LATERAL, REV TOT SHTS	CLS	11/23/05
3	ADD TRUNCATED DOMES AND STRUCTURAL SECTIONS	CLS	9/11/08

**NOLTE**  
 BEYOND ENGINEERING

15000 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 858.385.0500 TEL 858.385.0400 FAX WWW.NOLTE.COM

**RECORD PLAN**

PRINTED NAME: PAUL J. CERVANTES DATE: 7/24/09  
 EXP: 6/30/10

67542

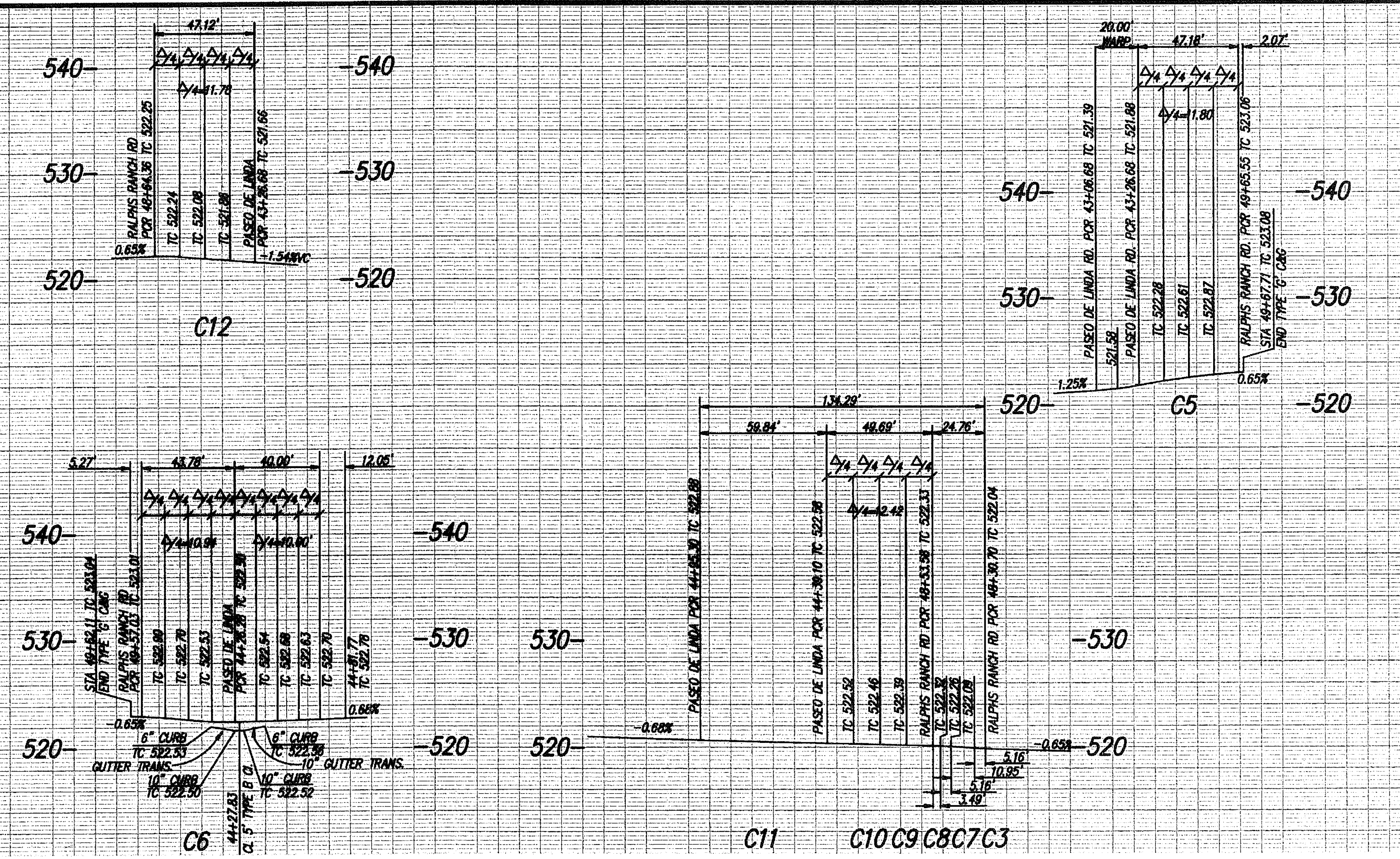
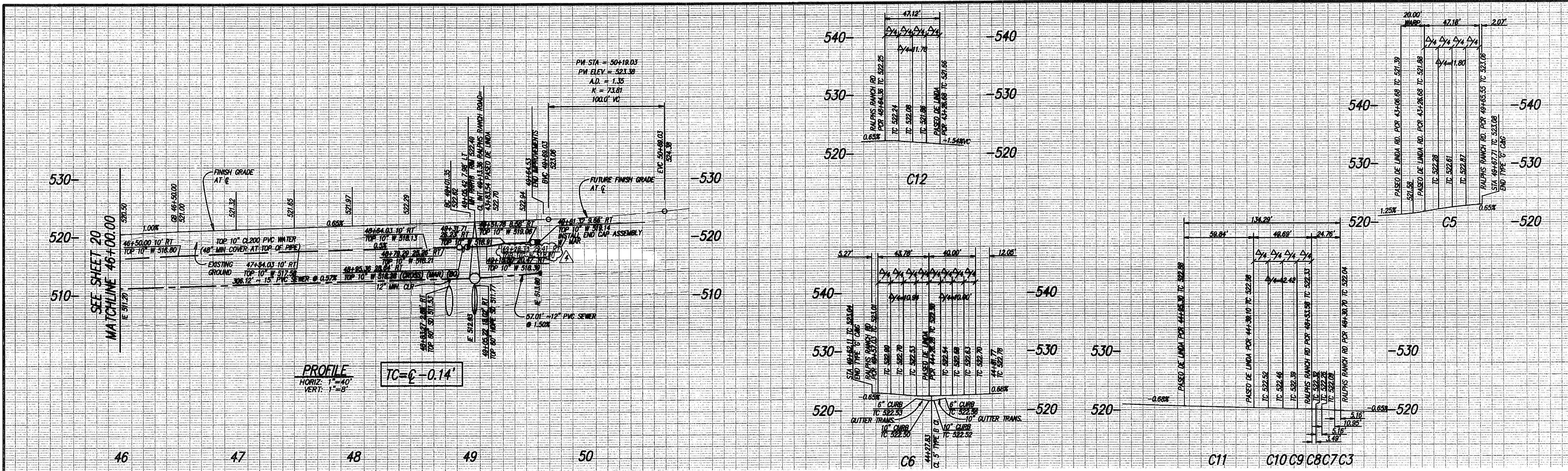
REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 CIVIL  
 67542

PTG. TIME: 7:45 am. HOME: [blank]  
 PLOTTING VIEW: [blank]  
 DRAWING NAME: [blank]  
 DATE: 11/10/03  
 SERVER: M:\S00053\Case\In\01\PLT

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500

FILE NO.





**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	N35°06'51"E	301.35'	
CL2	07°14'25"	500.00'	63.18'

**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	N35°06'51"E	264.36'		TYPE G-6 C&G
C2	N35°06'51"E	230.70'		TYPE G-6 C&G
C3	29°32'45"	10.00'	3.16'	TYPE G-6 C&G
C4	NOT USED			
C5	90°00'00"	30.00'	47.18'	TYPE G-6 C&G
C6	83°37'11"	30.00'	43.78'	TYPE G-6 C&G
C7	N05°34'06"E	10.95'	10.95'	TYPE G-6 C&G
C8	29°32'45"	10.00'	5.18'	TYPE G-6 C&G
C9	N35°06'51"E	3.49'	3.49'	TYPE G-6 C&G
C10	94°53'53"	30.00'	46.69'	TYPE G-6 C&G
C11	N49°58'16"W	59.84'	59.84'	TYPE G-6 C&G
C12	90°00'00"	30.00'	47.12'	TYPE G-6 C&G
C13	00°25'23"	281.00'	2.07'	TYPE G-6 C&G
C14	00°34'55"	519.00'	5.27'	TYPE G-6 C&G

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E	264.03'		10" PVC CL200
W2	N60°06'51"E	26.36'		10" PVC CL200
W3	N35°06'51"E	12.69'		10" PVC CL200
W4	N35°06'51"E	34.54'		10" PVC CL200
W5	N9°53'09"W	32.02'		10" PVC CL200
W6	N35°06'51"E	9.79'		10" PVC CL200

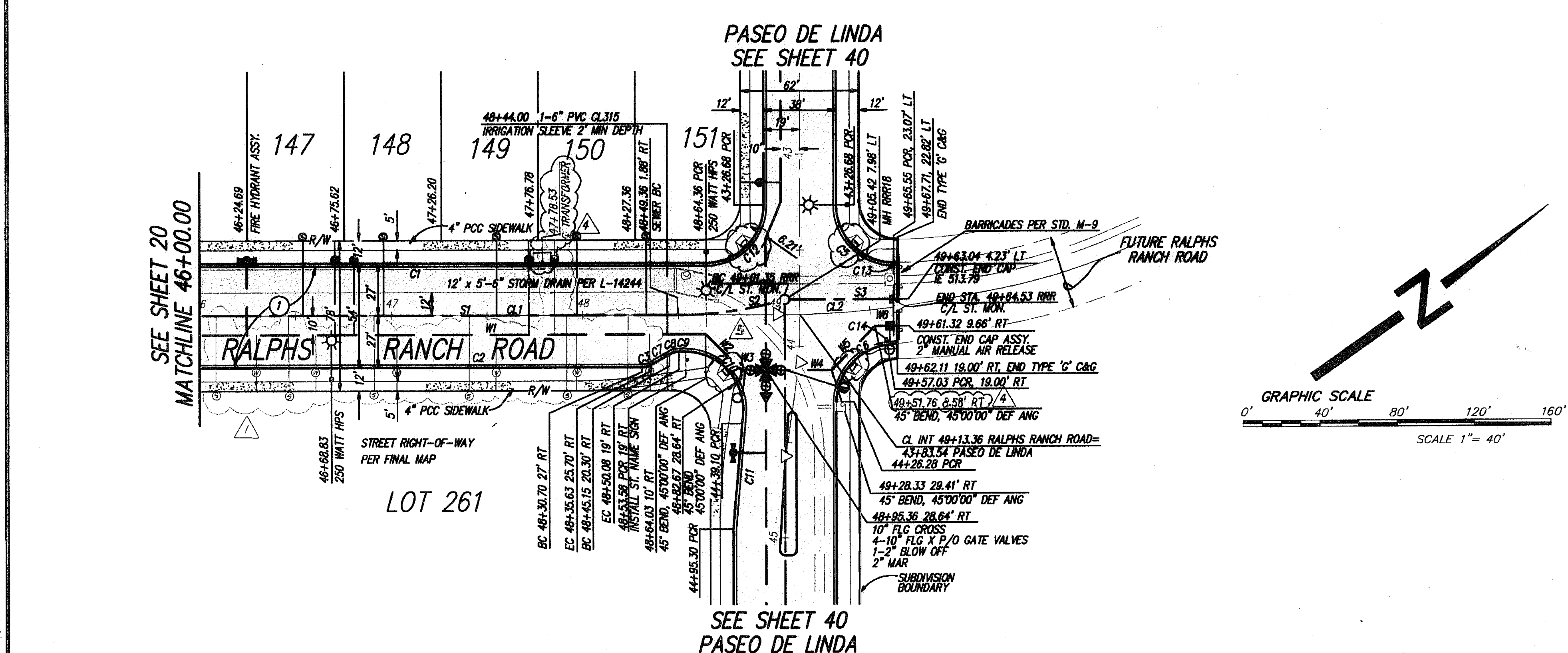
**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N35°06'51"E	249.36'		15" PVC SDR35
S2	16°15'35"	200.00'	56.76'	15" PVC SDR35
S3	N35°06'51"E	57.01'		12" PVC SDR35

STRUCTURAL SECTION  
 STA. 39+00 TO 49+00  
 4.0" ASPHALT COVER OVER  
 14.5" CLASS 2 AGGREGATE BASE OVER  
 12" NATIVE SUBGRADE COMPACTED TO  
 95% RELATIVE COMPACTION

**CONSTRUCTION NOTES**  
 ① AC PAVEMENT - TOWN COLLECTOR

**NOTES**  
 1. SEE SHEET 70 FOR SIGNING AND STRIPING  
 2. MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS



**RECORD PLAN**  
 PRINTED NAME: PAUL J. CERVANTES DATE: 7/24/09  
 RCE NO. 67542 EXP. DATE: 7/24/09  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA

**PLAN**  
 1"=40'

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA

**NOLTE**  
 BEYOND ENGINEERING  
 15090 AVENUE OF SCIENCE, SUITE 101, SAN DIEGO, CA 92128  
 858.333.0500 TEL. 858.345.0400 FAX WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	ADDED SEWER AND WATER LATERALS, REV WATER LATERAL LOCATION	RJS	10/11/04
2	REVISED & ADDED WATER CALLOUT, ADDED TRANSFORMER, REV TOY SHEDS	RJS	10/11/04
3	ADD TRUNCATED DOMES AND STRUCTURAL SECTION,	RJS	01/18/05

**PERMITS**  
 HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.L. NO. 9375317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14844

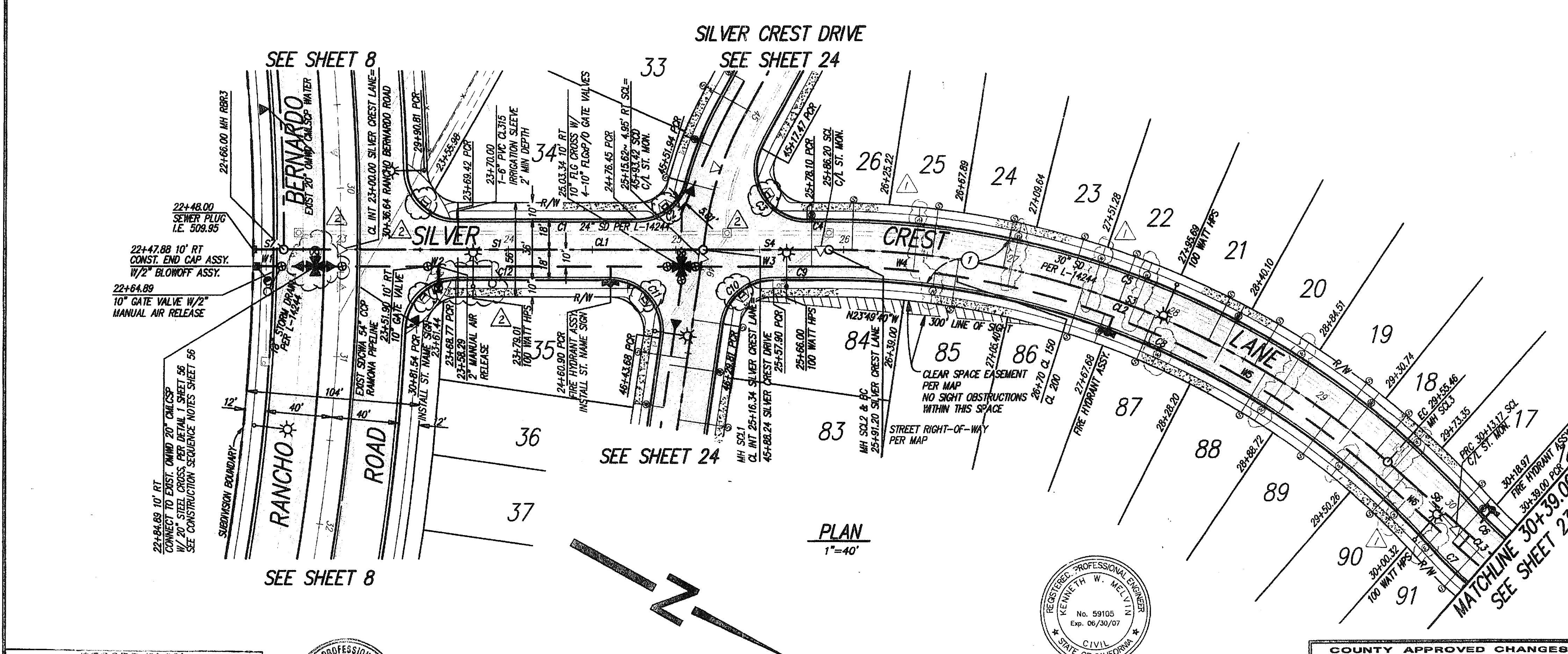
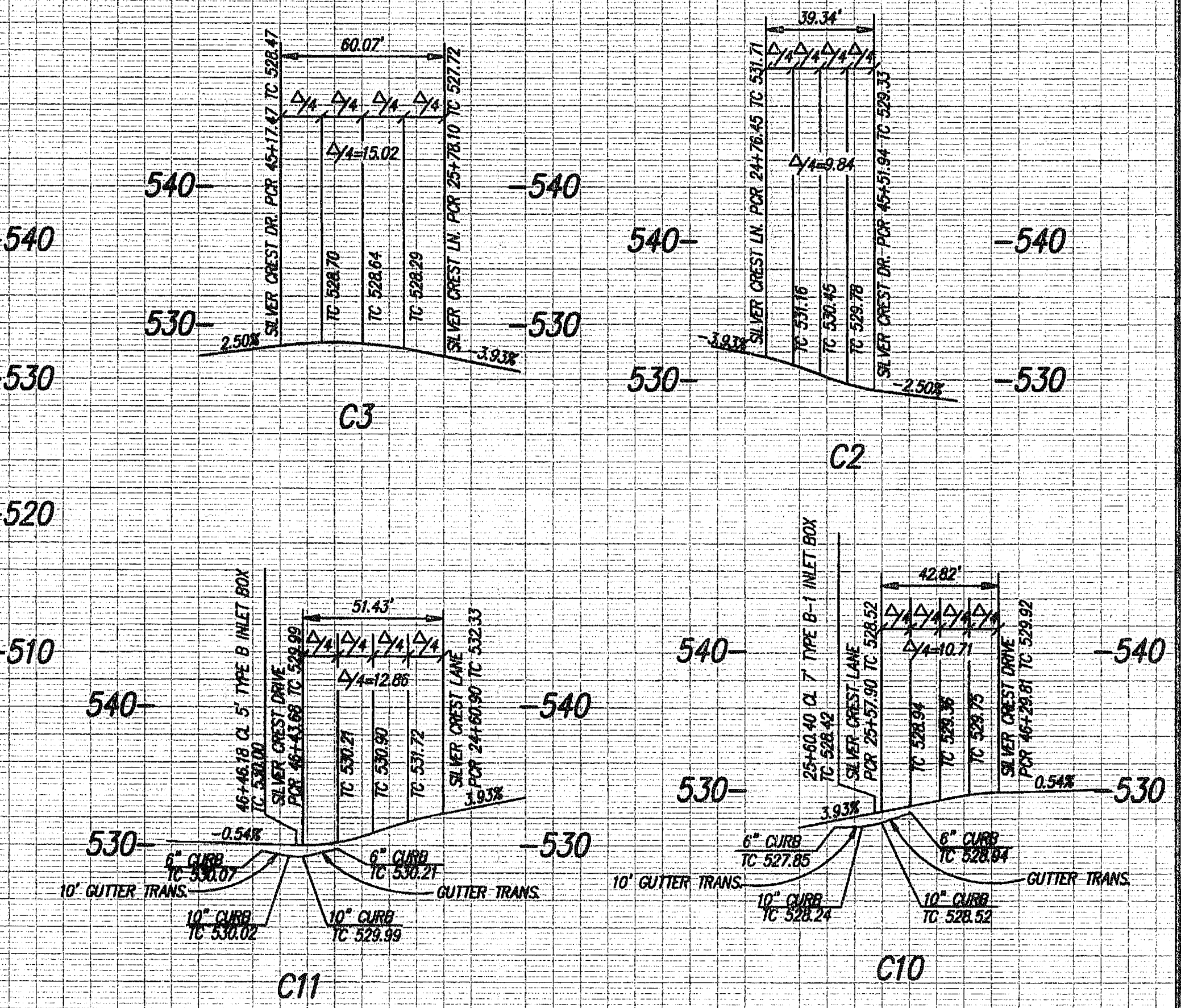
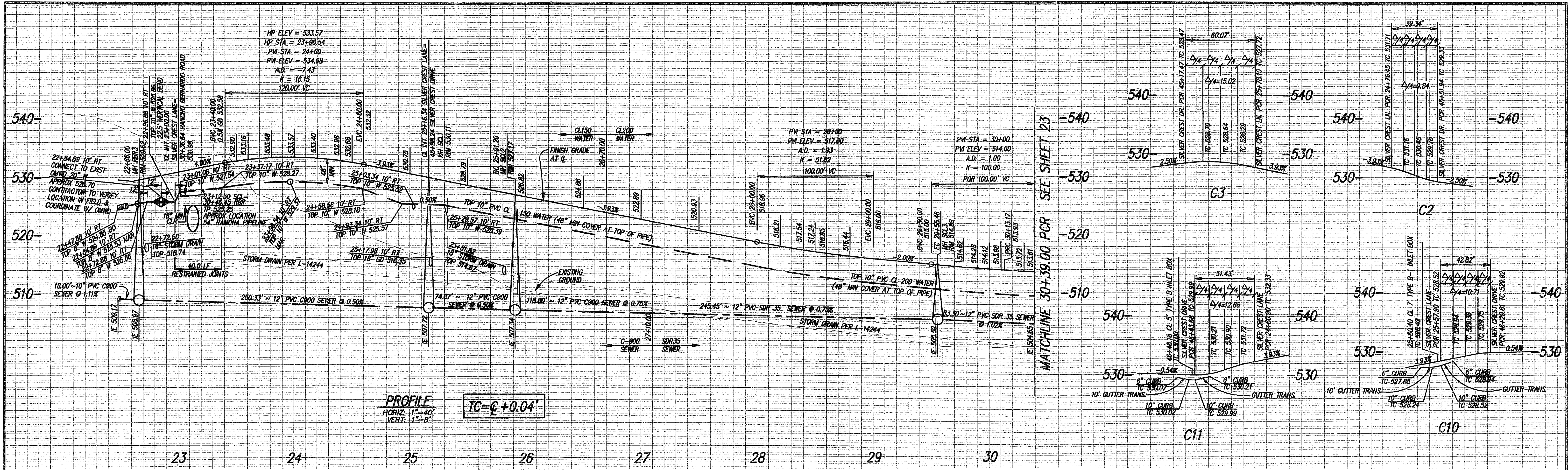
**BENCH MARK**  
 DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LOCATION: C/L INTERSECTION THORNHUNT RD & CT  
 ELEVATION: 822.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**  
 SHEET 21 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS  
 PLANS FOR THE IMPROVEMENT OF:  
**RALPHS RANCH ROAD STREET IMPROVEMENTS 46+00 TO 49+64.53**  
 Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER  
 Checked by: [Signature] DATE: 12-14-09  
 APPROVED DATE: 2/16/07  
 TM 5229-1

PG. DATE: 11/22/03  
 PLOT. TIME: 8:55 a.m.  
 SERVER: S05T  
 PLOTTING VIEW: NONE  
 PATH: \\S00055\Draw\1007\1\1  
 DRAWING NAME: IP02.DWG

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (619) 385-0500





**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	N28°52'52"W	291.20'	451.97'
CL2	48°21'15"	500.00'	451.97'
CL3	7°23'59"	200.00'	25.83'

**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	S20°52'52"E	107.03'	6'	6" TYPE 'C' C&G
C2	75°08'28"	30.00'	39.34'	6" TYPE 'C' C&G
C3	114°44'01"	30.00'	60.07'	6" TYPE 'C' C&G
C4	N28°52'52"W	13.10'	6'	6" TYPE 'C' C&G
C5	48°21'15"	518.00'	437.16'	6" TYPE 'C' C&G
C6	7°23'59"	182.00'	23.90'	6" TYPE 'C' C&G
C7	75°08'28"	218.00'	28.15'	6" TYPE 'C' C&G
C8	48°21'15"	482.00'	406.78'	6" TYPE 'C' C&G
C9	N28°52'52"W	33.31'	6'	6" TYPE 'C' C&G
C10	81°46'43"	30.00'	42.82'	6" TYPE 'C' C&G
C11	98°13'17"	30.00'	51.43'	6" TYPE 'C' C&G
C12	N28°52'52"W	92.13'	6'	6" TYPE 'C' C&G

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N28°52'52"W	37.00'	6'	6" PVC CL150
W2	N28°52'52"W	218.45'	10'	10" PVC CL150
W3	N28°52'52"W	87.86'	10'	10" PVC CL150
W4	9°01'47"	490.00'	77.22'	10" PVC CL150
W5	32°42'38"	490.00'	279.75'	10" PVC CL200
W6	N12°51'33"E	83.44'	10'	10" PVC CL200

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N28°52'52"W	250.34'	12'	12" PVC C900
S2	NOT USED			
S3	41°44'25"	500.00'	364.25'	12" PVC C900
S4	N28°52'52"W	74.87'	12'	12" PVC C900
S5	NOT USED			
S6	N12°51'33"E	83.30'	12'	12" PVC SDR35
S7	S28°52'52"E	18.00'	10'	10" PVC C900

**CONSTRUCTION NOTES**

1 AC PAVEMENT - 2 LANE LOCAL

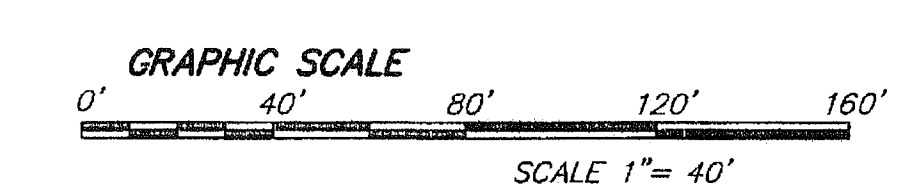
**NOTE:**  
MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**NOTE:**  
CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET COVER OVER EXISTING OWM WATERLINES AT ALL TIMES DURING CONSTRUCTION.

**RECORD PLAN**

PRINTED NAME: PAUL J. CERVANTES DATE: 6/30/09

EXP. NO. 67542 EXP. 6/30/09



**NOLTE**  
BEYOND ENGINEERING

15900 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
360.595.6500 TEL. 360.595.5400 FAX WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REV. WATER LATERAL LOCATIONS	RLS	01/11/01
2	REVISE TOTAL SHEETS, ADD TRUNCATED DOMES, AND WATER VALVE, RELOCATE MAR., THEN RECORD PLAN		

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
TENTATIVE MAP NO. TM 5229-1  
N.O.I. NO. 9375317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. PB7-036W3  
GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED LS 5894  
LOCATION: CA INTERSECTION THORNHUNT RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 22 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

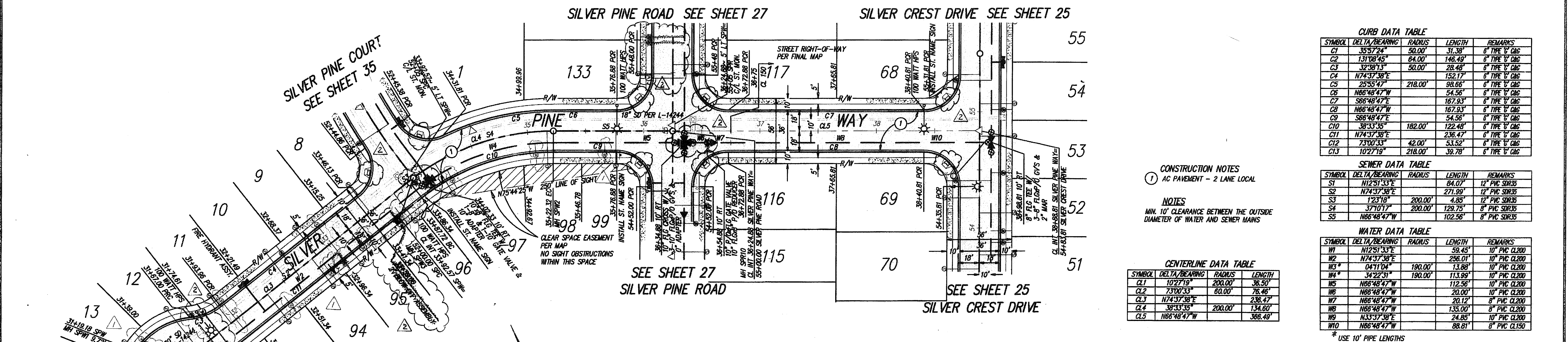
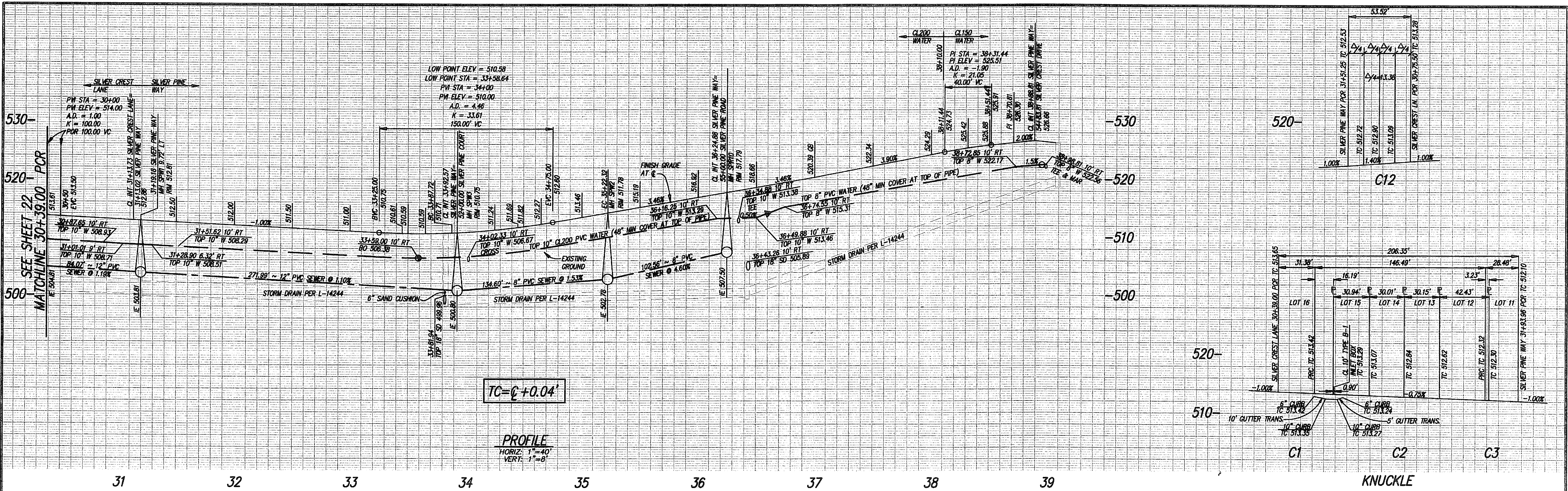
PLANS FOR THE IMPROVEMENT OF:  
**SILVER CREST LANE STREET IMPROVEMENTS 23+00 TO 30+39.00**

Recommended for approval: [Signature] COUNTY ENGINEER  
Subdivision Engineer: [Signature]  
Checked by: [Signature] 12-17-03  
Asst. County Engineer: [Signature] 12/16/09

PROJECT NO. TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES





CURB DATA TABLE				
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	35°57'24"	50.00'	31.38'	6" TYPE 'C' C&G
C2	131°08'45"	64.00'	146.49'	6" TYPE 'C' C&G
C3	32°38'13"	50.00'	28.48'	6" TYPE 'C' C&G
C4	N74°37'38"E		152.17'	6" TYPE 'C' C&G
C5	25°55'47"	218.00'	98.66'	6" TYPE 'C' C&G
C6	N86°48'47"W		54.56'	6" TYPE 'C' C&G
C7	S86°48'47"E		167.93'	6" TYPE 'C' C&G
C8	N66°48'47"W		167.93'	6" TYPE 'C' C&G
C9	S86°48'47"E		54.56'	6" TYPE 'C' C&G
C10	S83°33'35"	182.00'	122.48'	6" TYPE 'C' C&G
C11	N74°37'38"E		236.47'	6" TYPE 'C' C&G
C12	N33°37'38"E	42.00'	53.82'	6" TYPE 'C' C&G
C13	102°71'19"	218.00'	39.78'	6" TYPE 'C' C&G

SEWER DATA TABLE				
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N12°51'33"E		84.07'	12" PVC S&R35
S2	N74°37'38"E		271.99'	12" PVC S&R35
S3	123°18'	200.00'	4.85'	12" PVC S&R35
S4	S71°07'17"	200.00'	129.75'	8" PVC S&R35
S5	N86°48'47"W		102.56'	8" PVC S&R35

WATER DATA TABLE				
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N12°51'33"E		59.45'	10" PVC CL200
W2	N74°37'38"E		256.01'	10" PVC CL200
W3*	04°11'04"	190.00'	13.88'	10" PVC CL200
W4*	34°22'31"	190.00'	113.89'	10" PVC CL200
W5	N86°48'47"W		112.56'	10" PVC CL200
W6	N86°48'47"W		20.00'	10" PVC CL200
W7	N86°48'47"W		20.12'	8" PVC CL200
W8	N86°48'47"W		135.00'	8" PVC CL200
W9	N33°37'38"E		24.85'	10" PVC CL200
W10	N86°48'47"W		88.81'	8" PVC CL150

\* USE 10' PIPE LENGTHS

**CONSTRUCTION NOTES**

1 AC PAVEMENT - 2 LANE LOCAL

**NOTES**

MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	102°71'19"	200.00'	36.50'
CL2	N74°37'38"E	60.00'	76.46'
CL3	N74°37'38"E		236.47'
CL4	S83°37'38"E	200.00'	134.60'
CL5	N86°48'47"W		366.49'

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.L. NO. 937S317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. PB7-036W3  
 GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED LS 5894  
 LOCATION: C/L INTERSECTION THORNHUNT RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PLAN**  
1"=40'

**RECORD PLAN**

PRINTED NAME: PAUL J. CERVANTES DATE: 6/30/09

PROFESSIONAL ENGINEER  
PAUL J. CERVANTES  
No. 67542  
Exp. 6/30/09  
CIVIL  
STATE OF CALIFORNIA

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REV WATER LATERAL LOCATIONS	RLS	10/1/09
2	REVISE TOTAL SHEETS, ADD TRUNCATED ODMES, DELETE WATER SERVICE AND B-O, RELOCATE THREE		

**NOLTE**  
BEYOND ENGINEERING  
15096 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
619-595-5500 TEL. 619-595-0000 FAX. WWW.NOLTE.COM

CLASS: LMS  
DATE: 11/07/03  
JOB NO: 500355

**PRIVATE CONTRACT**

SHEET 23 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

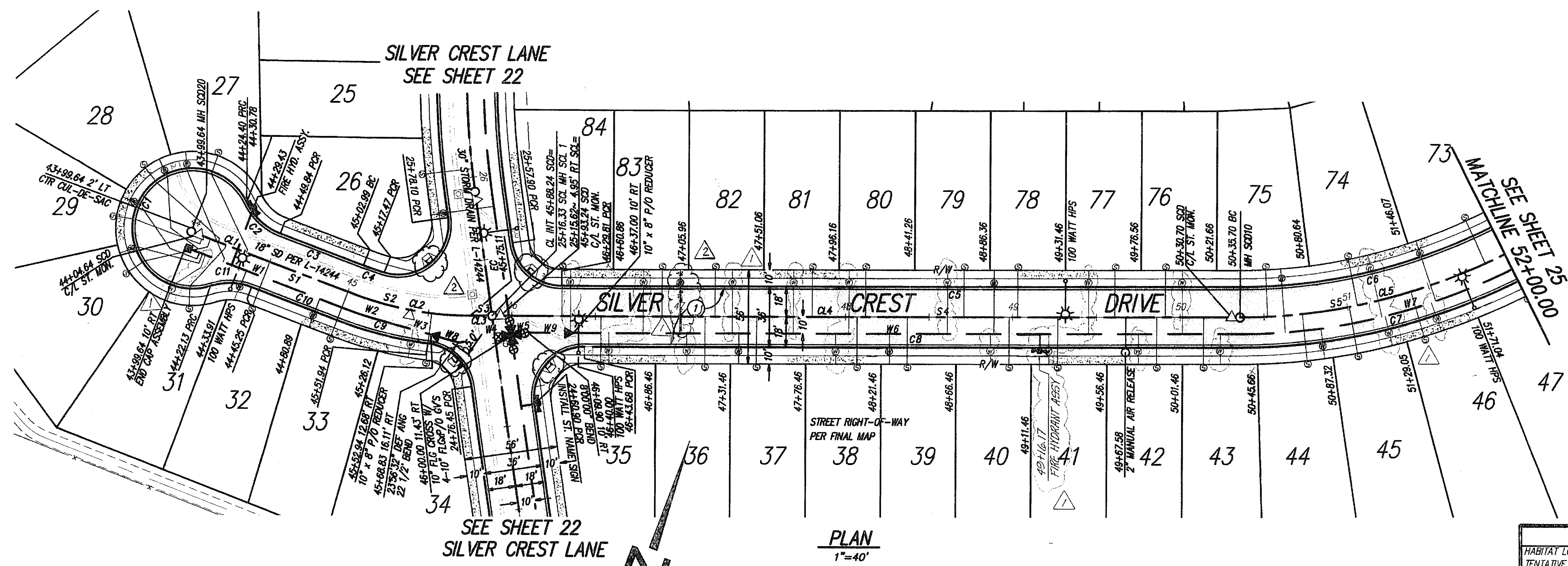
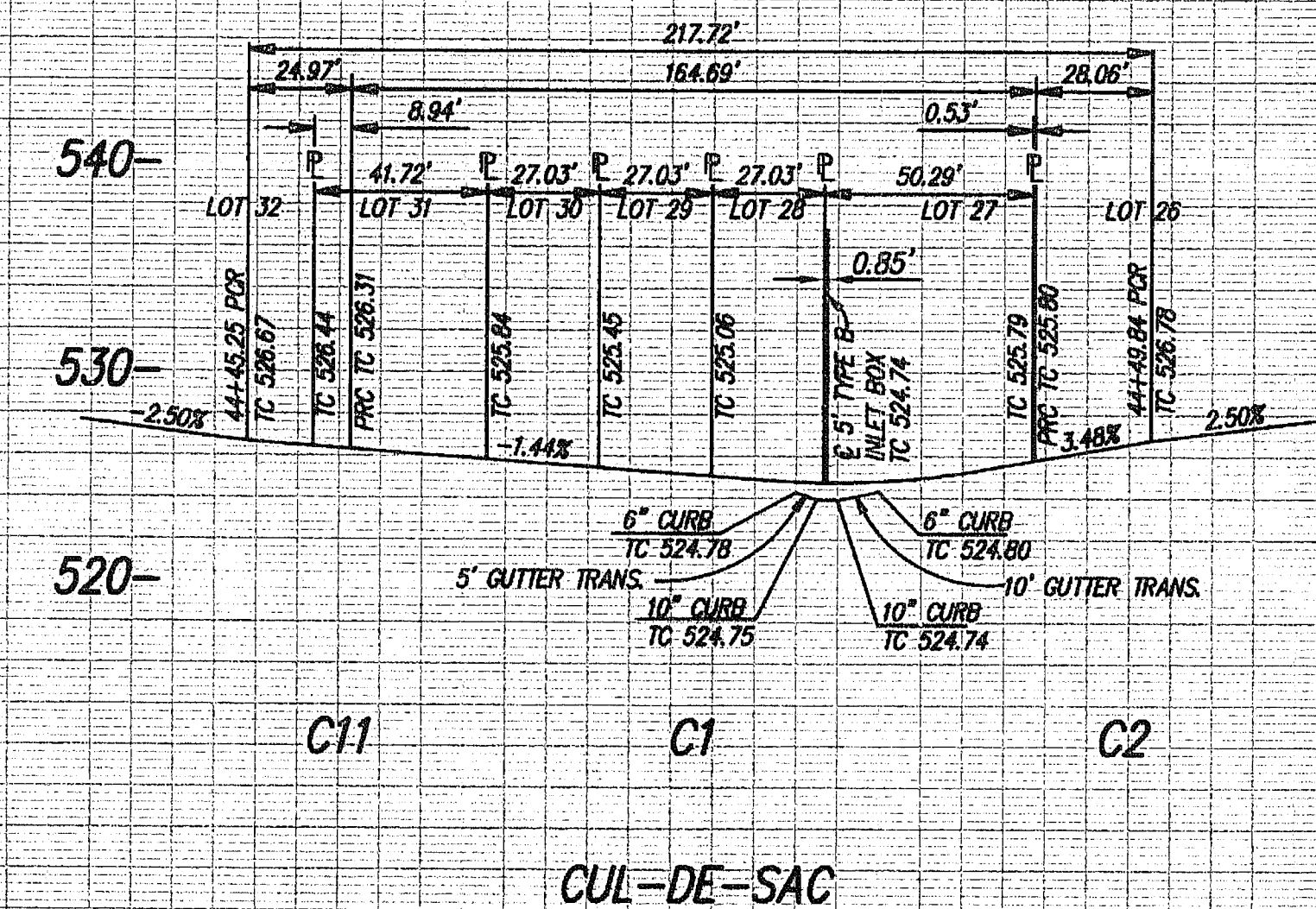
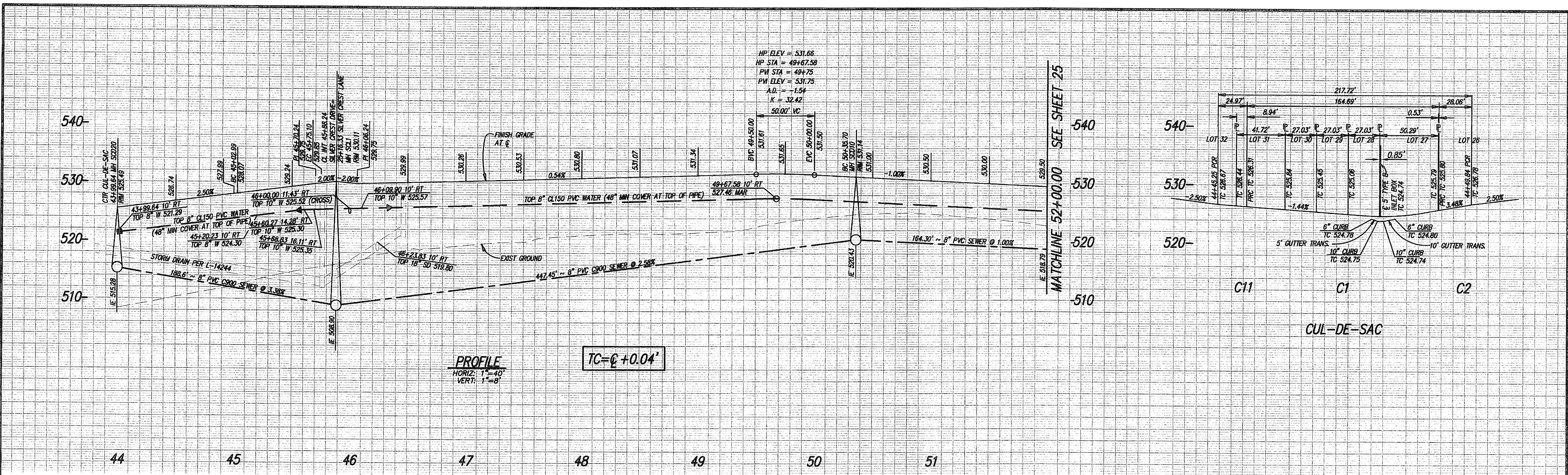
PLANS FOR THE IMPROVEMENT OF:  
**SILVER PINE WAY STREET IMPROVEMENTS**  
30+39.00 PCR TO 38+88.81

Recommended for approval: [Signature] For: DOUGLAS M. ISDELL  
SUBDIVISION ENGINEER  
Checked by: [Signature] 12-14-09  
Approved Date: 12/16/09  
Professional Seal: [Signature] TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES  
PHONE NO (RRR) 385-0500

FIG. DATE: 11/07/03  
 PLOT. TIME: 3:36 P.M.  
 PLOTTING VIEW: NONE  
 DRAWING NAME: P0123LDWG  
 PLOT. N: [Signature]  
 PLOT. K: [Signature]





**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	262°35'	36.00'	164.63'	6" TYPE 'C' CURB
C2	43°26'44"	37.00'	28.06'	6" TYPE 'C' CURB
C3	N90°0'0"W	53.15'	53.15'	6" TYPE 'C' CURB
C4	48°51'	182.00'	13.17'	6" TYPE 'C' CURB
C5	N69°20'25"E	405.89'	6" TYPE 'C' CURB	
C6	26°53'48"	332.00'	155.85'	6" TYPE 'C' CURB
C7	26°53'48"	368.00'	172.75'	6" TYPE 'C' CURB
C8	N69°20'25"E	392.02'	6" TYPE 'C' CURB	
C9	141°20'	218.00'	53.35'	6" TYPE 'C' CURB
C10	N90°0'0"W	57.74'	6" TYPE 'C' CURB	
C11	38°39'51"	37.00'	24.97'	6" TYPE 'C' CURB

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N90°0'0"W	103.35'	8" PVC CS90	
S2	20°39'35"	200.00'	72.12'	8" PVC CS90
S3	N69°20'25"E	13.14'	8" PVC CS90	
S4	N69°20'25"E	447.45'	8" PVC CS90	
S5	26°53'48"	350.00'	164.30'	8" PVC CS90

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N90°0'0"W	103.35'	8" PVC CL150	
W2	S12°11'	#210.00'	8" PVC CL150	
W3	N84°47'49"E	33.66'	8" PVC CL150	
W4	N61°7'8"E	32.00'	10" PVC CL150	
W5	N61°7'8"E	10.00'	10" PVC CL150	
W6	N69°20'25"E	398.70'	8" PVC CL150	
W7	26°53'48"	360.00'	8" PVC CL150	
W8	N84°47'49"E	17.37'	10" PVC CL150	
W9	N69°20'25"E	27.10'	10" PVC CL150	

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	S90°0'0"E	103.35'	103.35'
CL2	20°39'35"	200.00'	72.12'
CL3	S69°20'25"W	13.14'	13.14'
CL4	S69°20'25"W	447.45'	447.45'
CL5	26°53'48"	350.00'	164.30'

**CONSTRUCTION NOTES**

- AC PAVEMENT - 2 LANE LOCAL

**NOTES**

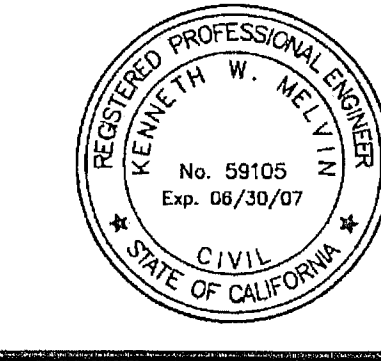
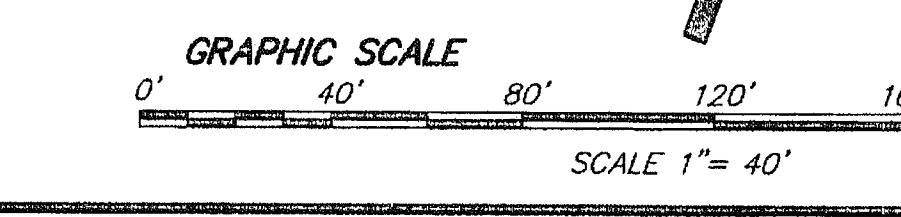
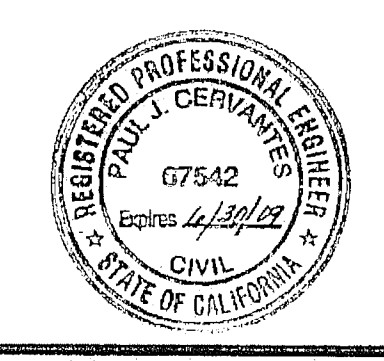
MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

\* USE 10' PIPE LENGTHS

**RECORD PLAN**

PRINTED NAME: PAUL J. CERVANTES DATE: 4/30/09

PROJECT NO. 67542 EXP. 4/30/09



**NOLTE**  
BEYOND ENGINEERING

15090 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
619.385.0500 TEL. 619.385.0400 FAX

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REV WATER LATERALS & FH LOCATIONS	RAS.	10/11/04
2	REVISE TOTAL SHEETS, ADD TRUNCATED DAMES, DELETE WATER SERVICE, THEN RECORD PLAN		

**PERMITS**

HABITAT LOSS PERMIT NO. N/A  
TENTATIVE MAP NO. TM 5229-1  
N.O.I. NO. 937S317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. P87-036W3  
GRADING PERMIT NO. L-14244

**BENCH MARK**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED LS 5894  
LOCATION: C/L INTERSECTION THORNHILT RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 24 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF  
**SILVER CREST DRIVE STREET IMPROVEMENTS**  
43+99.64 TO 52+000

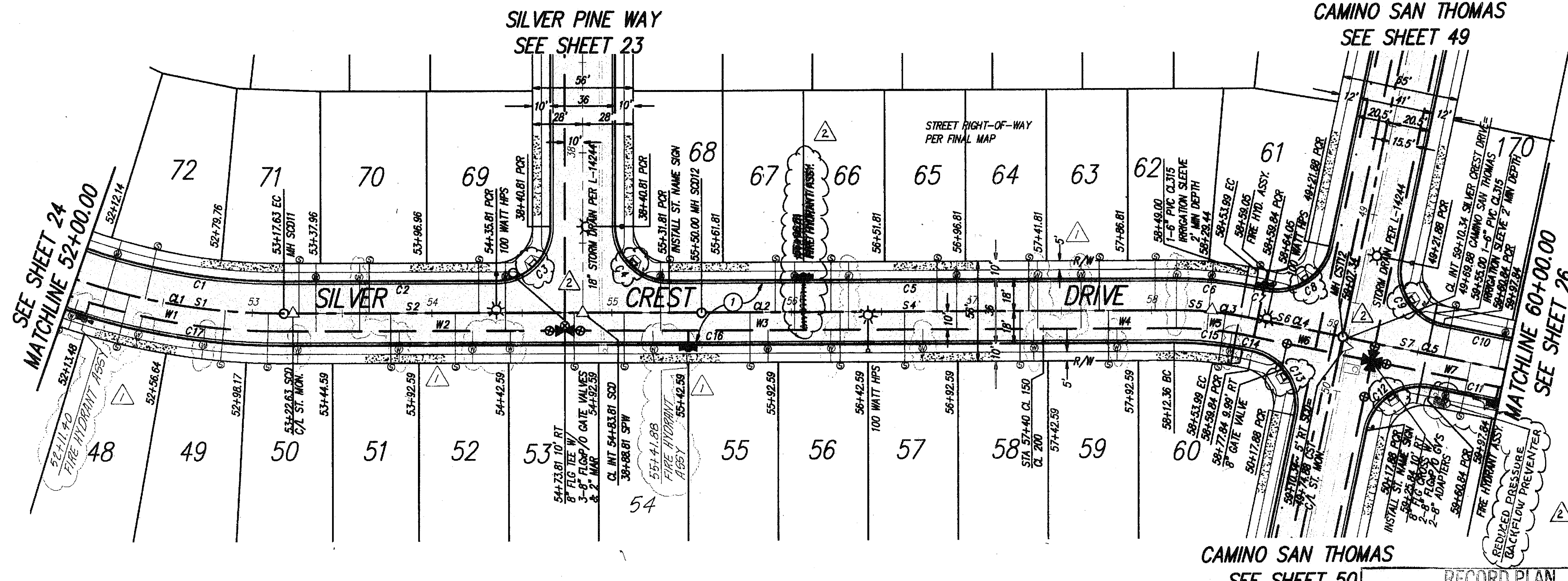
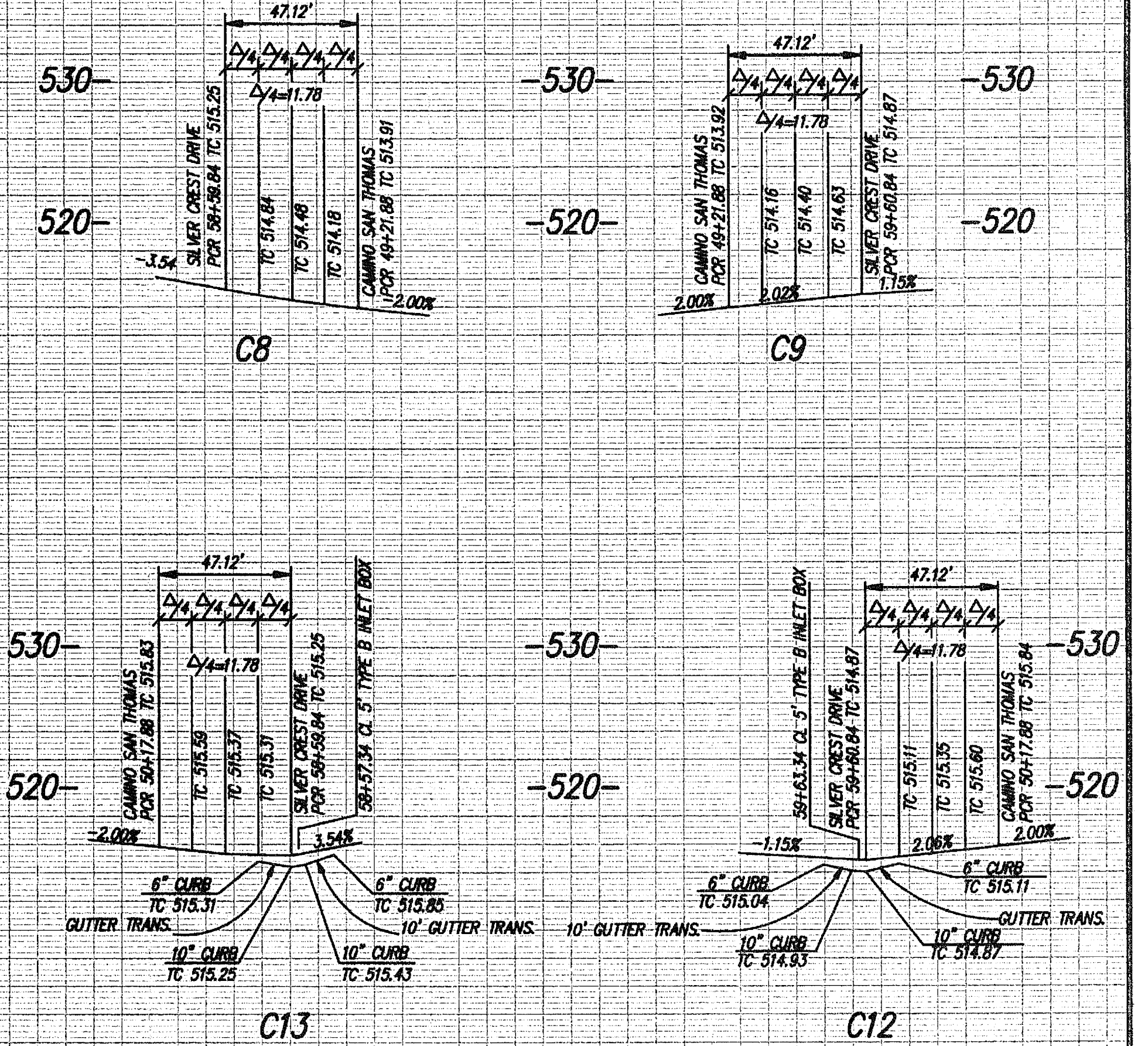
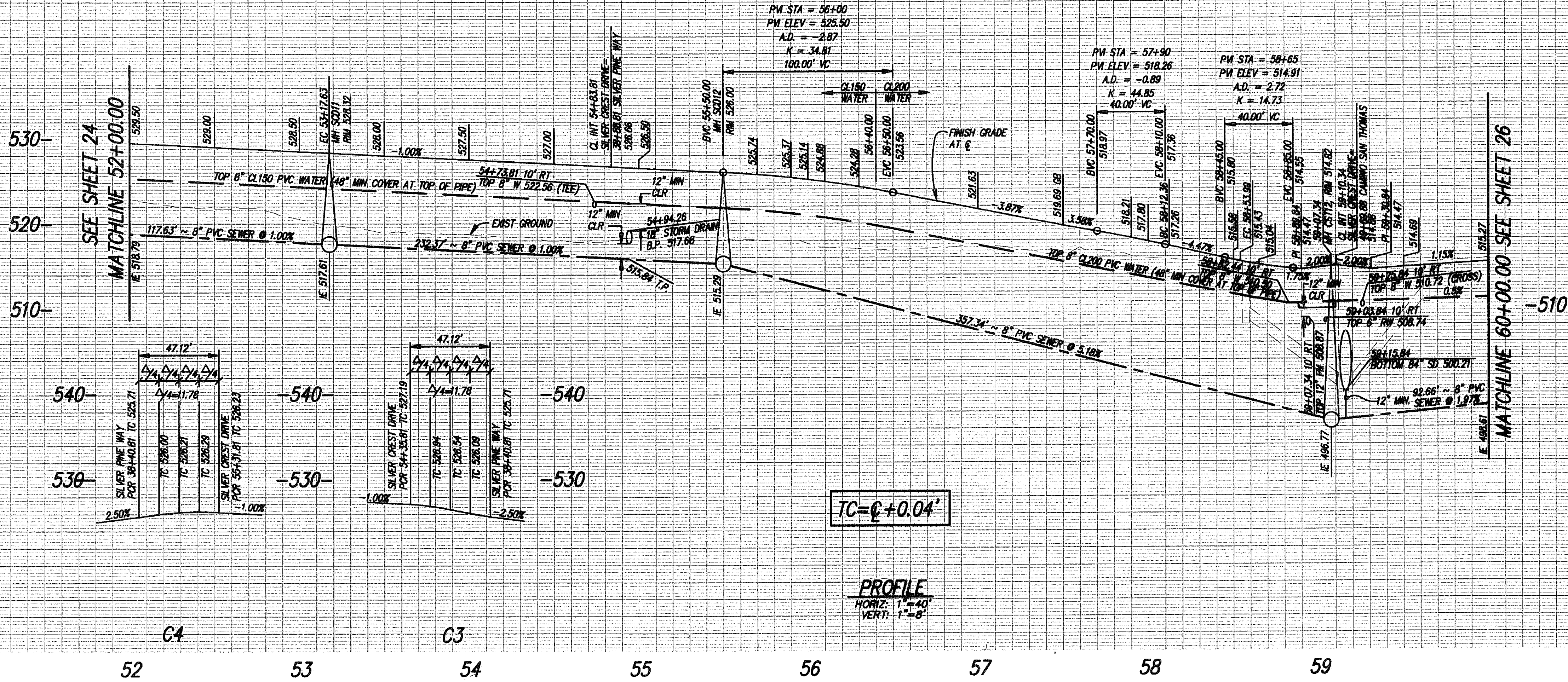
Recommended for approval: [Signature] COUNTY ENGINEER  
Subdivision Engineer: [Signature] COUNTY ENGINEER  
Checked by: [Signature] DATE: 12-14-09

PROJECT NO. TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES

FILE NO.





CONSTRUCTION NOTES  
 ① AC PAVEMENT - 2 LANE LOCAL

NOTE  
 MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

SEWER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	1915°26'	350.00'	117.64'	8" PVC SDR35
S2	N23°11'13"E		232.37'	8" PVC SDR35
S3	NOT USED			
S4	N23°11'13"E		262.36'	8" PVC SDR35
S5	1155°38'	200.00'	41.63'	8" PVC SDR35
S6	N35°05'1"E		53.31'	8" PVC SDR35
S7	N35°05'1"E		92.66'	8" PVC SDR35

CENTERLINE DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	1915°26'	350.00'	117.63'
CL2	S23°11'13"W		494.73'
CL3	1155°38'	200.00'	41.63'
CL4	S35°06'51"W		56.34'
CL5	S35°06'51"W		89.66'

CURB DATA TABLE

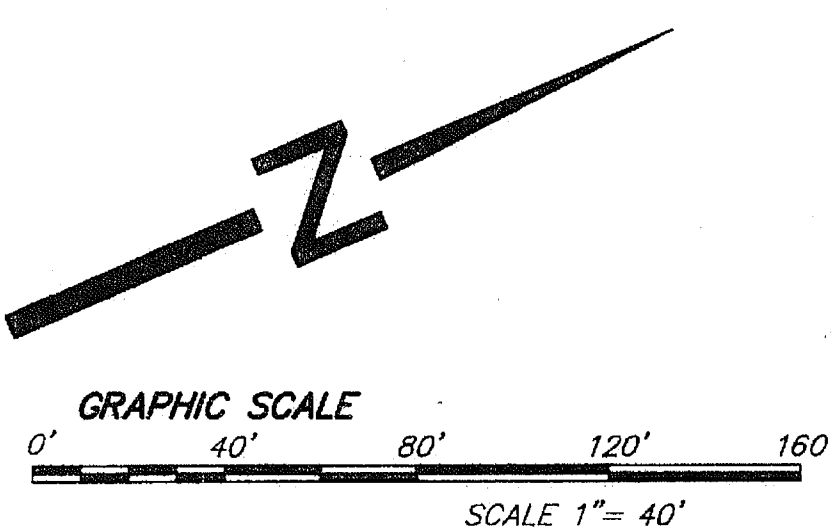
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	1915°26'	332.00'	111.59'	6" TYPE 'C' CURB
C2	N23°11'13"E		118.18'	6" TYPE 'C' CURB
C3	90°00'00"	30.00'	47.12'	6" TYPE 'C' CURB
C4	90°00'00"	30.00'	47.12'	6" TYPE 'C' CURB
C5	N23°11'13"E		280.58'	6" TYPE 'C' CURB
C6	1155°38'	218.00'	45.38'	6" TYPE 'C' CURB
C7	S35°06'51"W		5.84'	6" TYPE 'C' CURB
C8	90°00'00"	30.00'	47.12'	6" TYPE 'C' CURB
C9	90°00'00"	30.00'	47.12'	6" TYPE 'C' CURB
C10	S35°06'51"W		39.16'	6" TYPE 'C' CURB
C11	N35°06'51"E		39.16'	6" TYPE 'C' CURB
C12	90°00'00"	30.00'	47.12'	6" TYPE 'C' CURB
C13	90°00'00"	30.00'	47.12'	6" TYPE 'C' CURB
C14	S35°06'51"W		5.84'	6" TYPE 'C' CURB
C15	1155°38'	182.00'	37.89'	6" TYPE 'C' CURB
C16	S23°11'13"W		494.73'	6" TYPE 'C' CURB
C17	1915°26'	368.00'	123.68'	6" TYPE 'C' CURB

WATER DATA TABLE

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	1915°26'	360.00'	121.00'	8" PVC CL150
W2	N23°11'13"E		158.18'	8" PVC CL150
W3	N23°11'13"E		166.19'	8" PVC CL150
W4	N23°11'13"E		172.39'	8" PVC CL200
W5*	1155°38'	*180.00'	38.55'	8" PVC CL200
W6	N35°05'1"E		71.81'	8" PVC CL200
W7	N35°05'1"E		74.16'	8" PVC CL200

\*USE 10' PIPE LENGTHS

PLAN  
 1"=40'



**NOLTE**  
 BEYOND ENGINEERING  
 15090 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92128  
 858.385.0500 TEL. 858.385.0400 FAX WWW.NOLTE.COM

RECORD PLAN

PERMITS  
 HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.I. NO. 9375317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

COUNTY APPROVED CHANGES  
 Description: REV WATER LATERALS & FH LOCATIONS  
 Approved by: BUS  
 Date: 10/11/04

REVISIONS  
 1. REVISE TOTAL SHEETS AND TRUNCATED DOMES AND BACKFLOW VALVE, DELETE F.H., THEN RECORD PLAN  
 DATE: 11/07/03  
 JOB NO: S00355

BENCH MARK  
 DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LS 5894  
 LOCATION: C/L INTERSECTION THORNHURST RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 389, R.O.S. 14492)  
 ELEVATION: 622.05  
 DATUM: NGVD 29 (FEET)

PRIVATE CONTRACT

SHEET 25  
 COUNTY OF SAN DIEGO  
 DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**SILVER CREST DRIVE**  
 STREET IMPROVEMENTS  
 52+00 TO 60+00

Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER

Approved by: [Signature]  
 COUNTY ENGINEER

Checked by: [Signature]  
 DATE: 12-14-03  
 APPROVAL NO: 216104

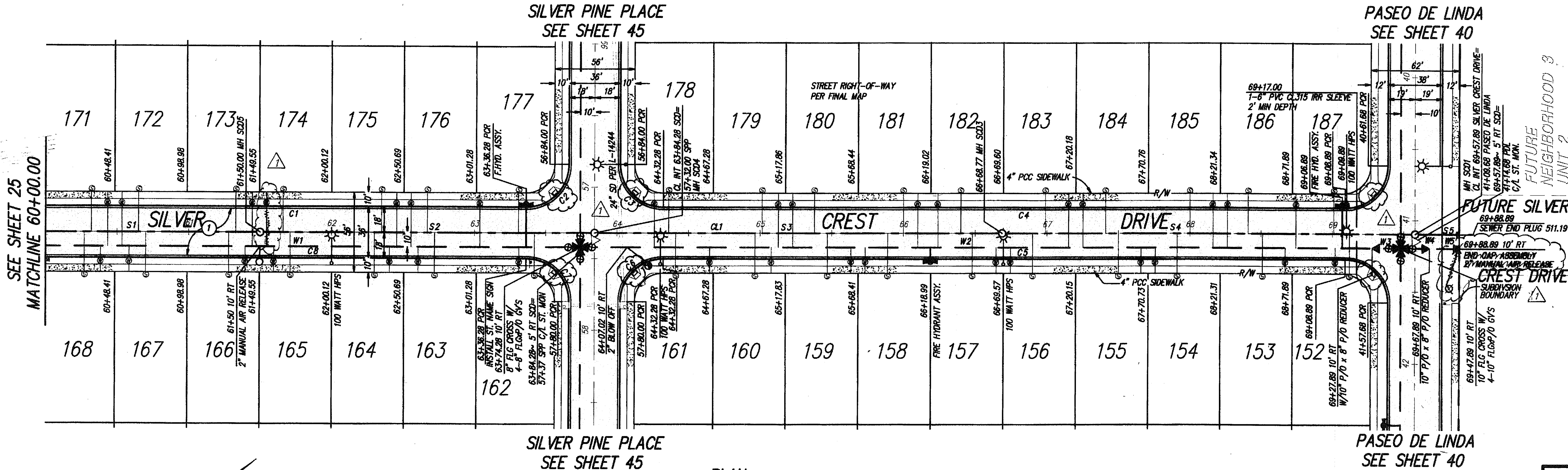
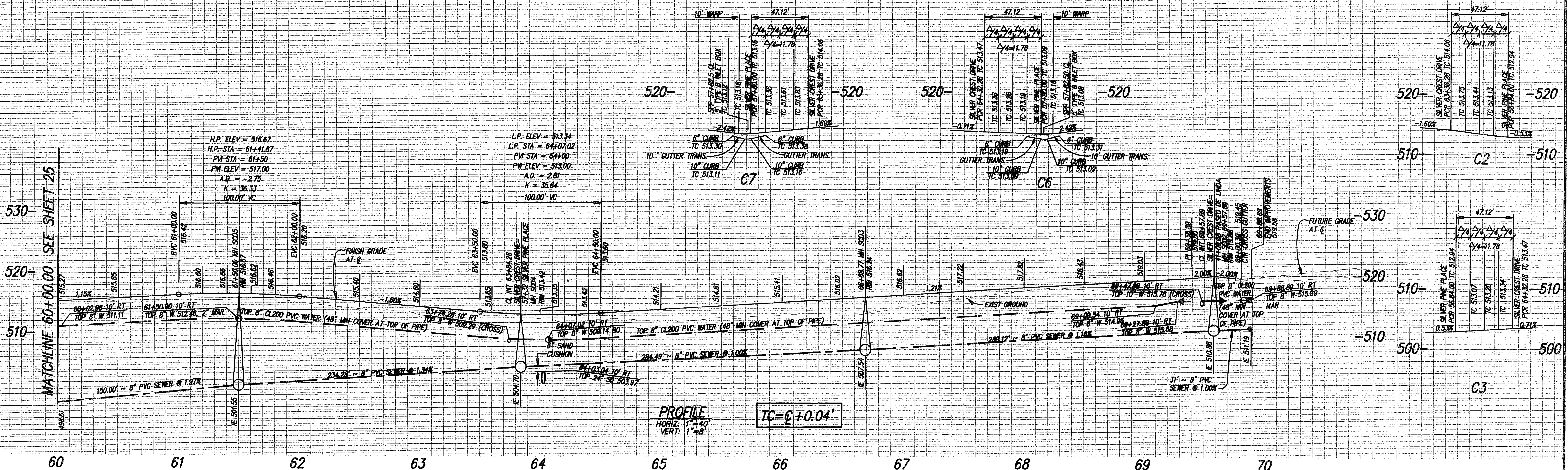
PROJECT NO: TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500

FILE NO.



PTG. TIME: 3.31 P.M.  
 PLOTTING VIEW: NONE  
 SERVER: S03  
 DRAWING NAME: I07026.DWG  
 DATE: 11/07/03  
 PATH: N:\S03\351\Draw\107026\I07026.DWG



**CONSTRUCTION NOTES**

① AC PAVEMENT - 2 LANE LOCAL

**NOTE**  
 MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
C1	S35°06'51"W		957.89'

**CURB DATA TABLE**

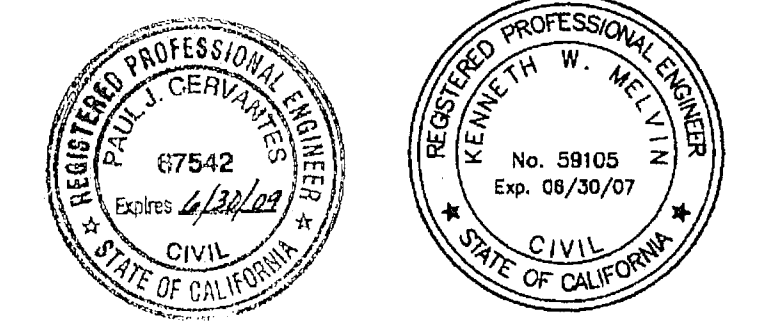
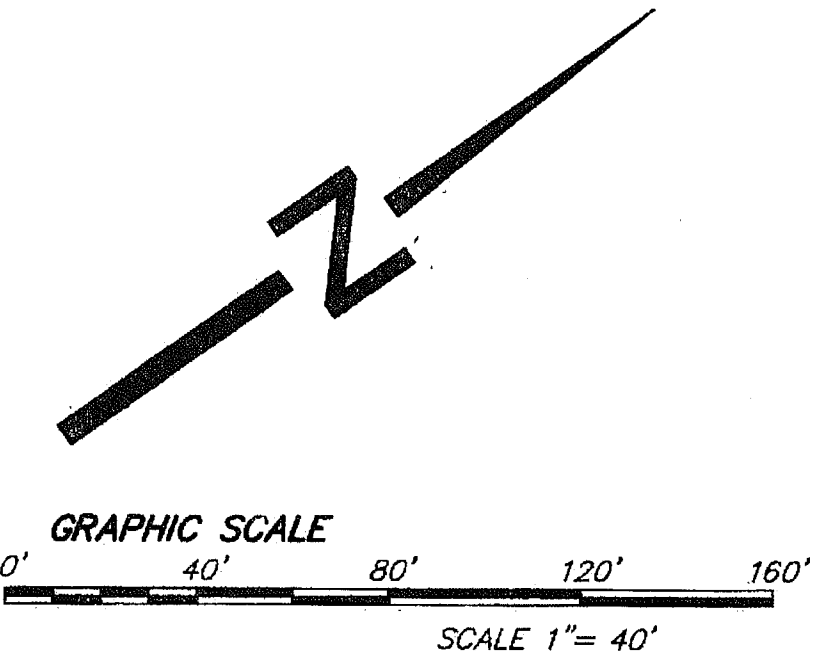
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	S35°06'51"W		336.28'	6" TYPE 'B' CURB
C2	S0°00'00"	30.00'	47.12'	6" TYPE 'B' CURB
C3	S0°00'00"	30.00'	47.12'	6" TYPE 'B' CURB
C4	N35°06'51"E		476.61'	6" TYPE 'B' CURB
C5	S35°06'51"W		476.61'	6" TYPE 'B' CURB
C6	S0°00'00"	30.00'	47.12'	6" TYPE 'B' CURB
C7	S0°00'00"	30.00'	47.12'	6" TYPE 'B' CURB
C8	N35°06'51"E		336.28'	6" TYPE 'B' CURB

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N35°06'51"E		150.00'	8" PVC SEWER
S2	N35°06'51"E		234.28'	8" PVC SEWER
S3	N35°06'51"E		284.49'	8" PVC SEWER
S4	N35°06'51"E		289.12'	8" PVC SEWER
S5	N35°06'51"E		31.00'	8" PVC SEWER

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E		374.28'	8" PVC WATER
W2	N35°06'51"E		553.61'	8" PVC WATER
W3	N35°06'51"E		20.00'	10" PVC WATER
W4	N35°06'51"E		20.00'	10" PVC WATER
W5	N35°06'51"E		21.00'	8" PVC WATER



**PLAN**  
 1"=40'

**NOLTE**  
 BEYOND ENGINEERING  
 1509 AVENUE OF SCIENCE, SUITE 101 SAN DIEGO, CA 92138  
 619.385.0500 TEL 619.385.6400 FAX WWW.NOLTE.COM

**RECORD PLAN**

HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 A.O.I. NO. 9375317362  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

PRINTED NAME: PAUL J. CERVANTES DATE: 5/27/04  
 RCE NO. 67542 EXP. 6/30/09

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REVISE TOTAL SHEETS, ADD TRUNCATED DOMES, REMOVE END CAP ASSEMBLY AND N.A.R., BEFORE IMPROVEMENTS BEGINS, THEN RECORD PLAN		

**PERMITS**

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LS 5894  
 LOCATION: C/L INTERSECTION THORNHURST RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14482)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 26 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**SILVER CREST DRIVE**  
 STREET IMPROVEMENTS  
 60+00 TO 69+57.89

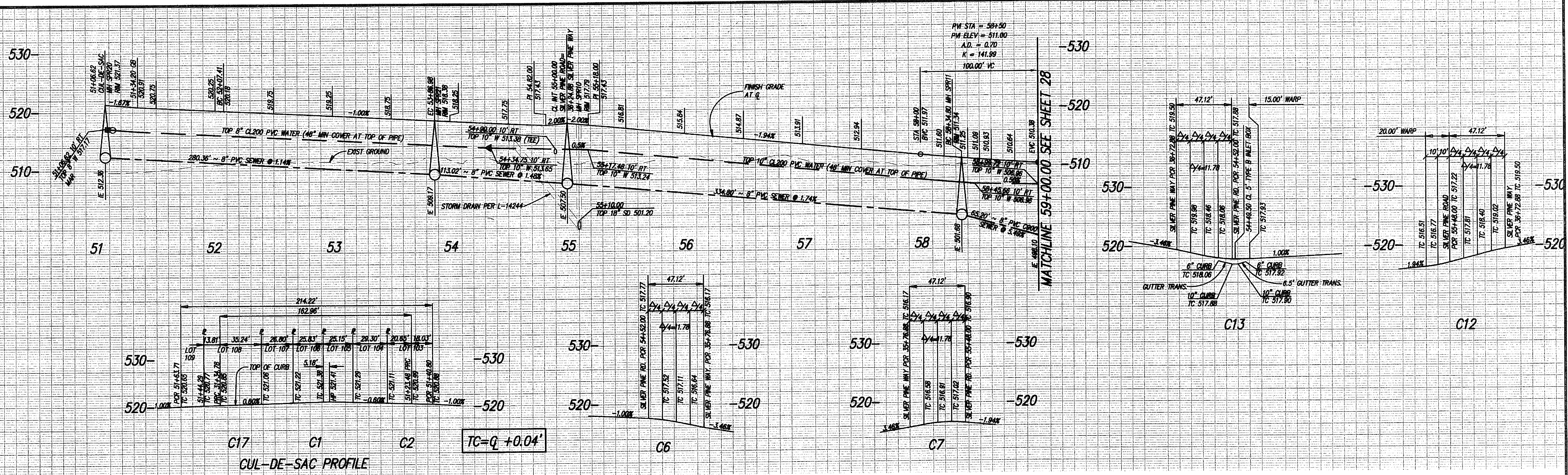
Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER COUNTY ENGINEER

Engineer of record: [Signature]  
 Checked by: [Signature]  
 DATE: 12-14-03  
 APPROVED DATE: 2/11/04

TM 5229-1

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500





**CENTERLINE DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH
C1	N74°37'38"E	100.00'	100.79'
C2	S12°26'25"W	200.00'	179.56'
C3	N23°11'13"E	100.00'	103.03'
C4	S72°28'15"W	500.00'	490.00'

**CONSTRUCTION NOTES**  
 ① AC PAVEMENT - 2 LANE LOCAL

**NOTE**  
 MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**SEWER DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
S1	N74°37'38"E	100.00'	100.79'	8" PVC SDR35
S2	S12°26'25"W	200.00'	179.56'	8" PVC SDR35
S3	N23°11'13"E	100.00'	103.03'	8" PVC SDR35
S4	N23°11'13"E	100.00'	103.03'	8" PVC SDR35
S5	S72°28'15"W	500.00'	490.00'	8" PVC SDR35

PVC C900 SHALL BE CL150

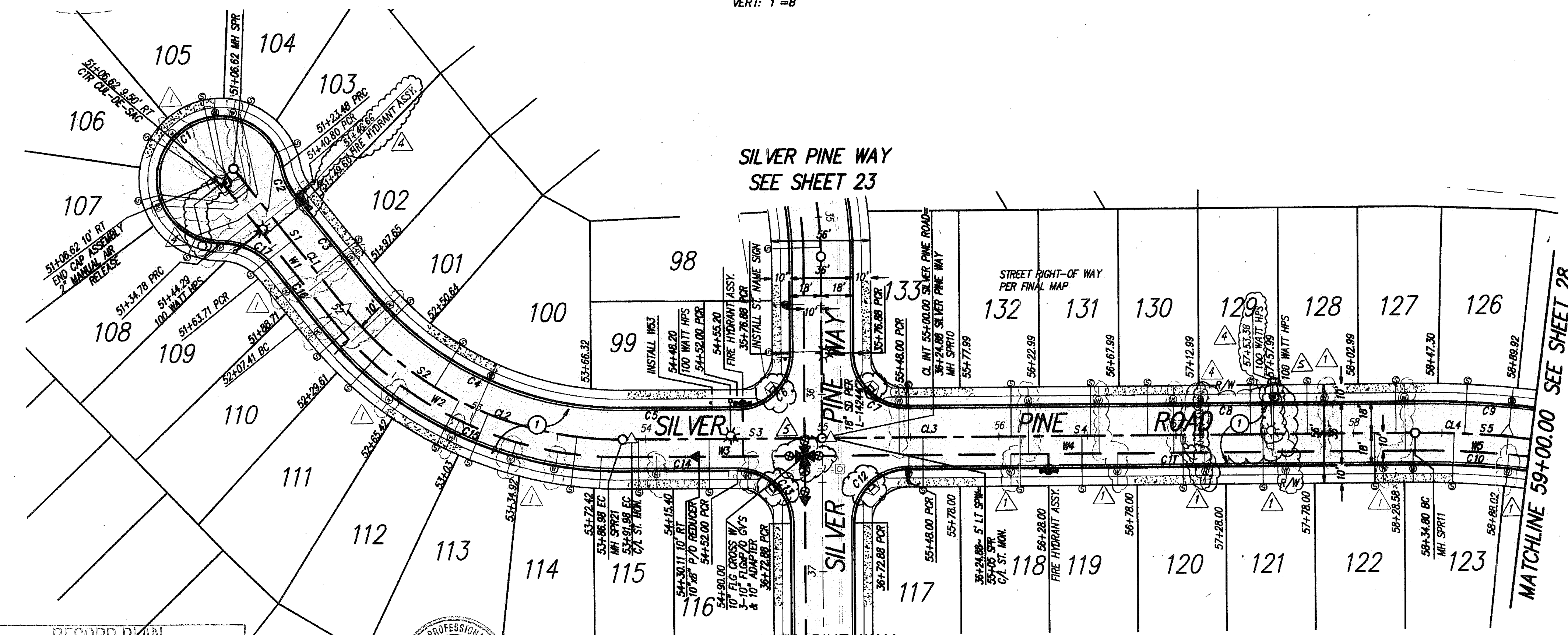
**WATER DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
W1	N74°37'38"E	100.00'	100.79'	8" PVC CL200
W2*	S12°26'25"W	200.00'	179.56'	8" PVC CL200
W3	N23°11'13"E	100.00'	103.03'	8" PVC CL200
W4	N23°11'13"E	100.00'	103.03'	8" PVC CL200
W5	S72°28'15"W	500.00'	490.00'	8" PVC CL200

\*USE 10' PIPE LENGTHS

**CURB DATA TABLE**

SYMBOL	DELTA BEARING	RADIUS	LENGTH	REMARKS
C1	S29°21'57"E	36.00'	162.96'	6" TYPE 'B' C&G
C2	N74°37'38"E	37.00'	18.03'	6" TYPE 'B' C&G
C3	N74°37'38"E	37.00'	18.03'	6" TYPE 'B' C&G
C4	S12°26'25"W	182.00'	163.40'	6" TYPE 'B' C&G
C5	N23°11'13"E	182.00'	163.40'	6" TYPE 'B' C&G
C6	S90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C7	S90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C8	N23°11'13"E	286.80'	67.54'	6" TYPE 'B' C&G
C9	S72°28'15"W	518.00'	62.85'	6" TYPE 'B' C&G
C10	S72°28'15"W	518.00'	62.85'	6" TYPE 'B' C&G
C11	N23°11'13"E	286.80'	67.54'	6" TYPE 'B' C&G
C12	S90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C13	S90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C14	N23°11'13"E	218.00'	185.72'	6" TYPE 'B' C&G
C15	S12°26'25"W	218.00'	185.72'	6" TYPE 'B' C&G
C16	N74°37'38"E	37.00'	33.22'	6" TYPE 'B' C&G
C17	S12°26'25"W	37.00'	33.22'	6" TYPE 'B' C&G



**PERMITS**  
 HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.I. NO. 037S317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	REV WATER LATERAL LOCATIONS	PLS.	10/11/04
2	REVISED RH, AY, & ST LIGHT LOCATION, REVISED WATER LATERAL LOCATIONS, REV TOT SHTS	PLS.	12/13/05
3	ADD TRUNCATED DOWNS, RELOCATE WATER SERVICE, ADD WATER VALVE, THEN RECORD PLAN		

**BENCH MARK**  
 DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LOCATION: C/E INTERSECTION THORNHILL RD & CT  
 RECORD FROM: CITY OF SAN DIEGO (PT. NO. 399, R.O.S. 14492)  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**

SHEET 27 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**SILVER PINE ROAD STREET IMPROVEMENTS**  
 51+01.81 TO 59+00

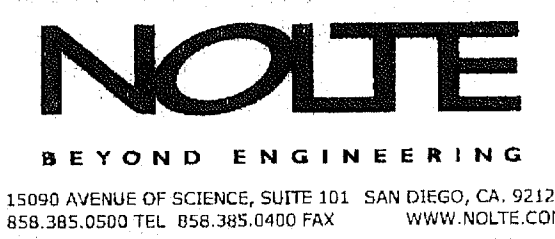
Recommended for approval: [Signature]  
 SUBDIVISION ENGINEER

Checked by: [Signature] 12-14-05  
 APPROVED BY: [Signature] 2-16-07  
 R.C.E. 59105

Project No. TM 5229-1

DATE: 11/24/03  
 PLOT DATE: 3:49 PM  
 PLOTTING VIEW: NONE  
 DRAWING NAME: P0127.DWG  
 PLOTTER: HP 1300/505  
 PLOT SCALE: 1/8"=1'-0"

**RECORD PLAN**  
 Paul Corvato 5/21/09  
 PRINTED NAME: PAUL J. CORVATO  
 CE: NO. 67542  
 6/30/09



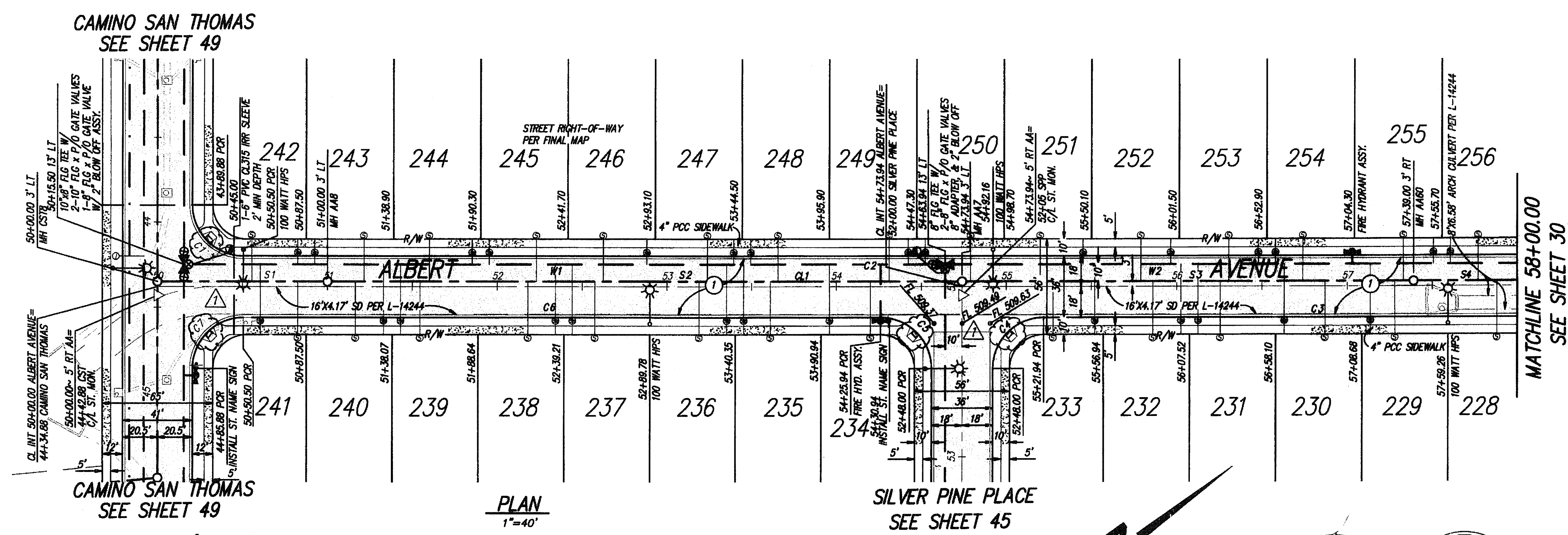
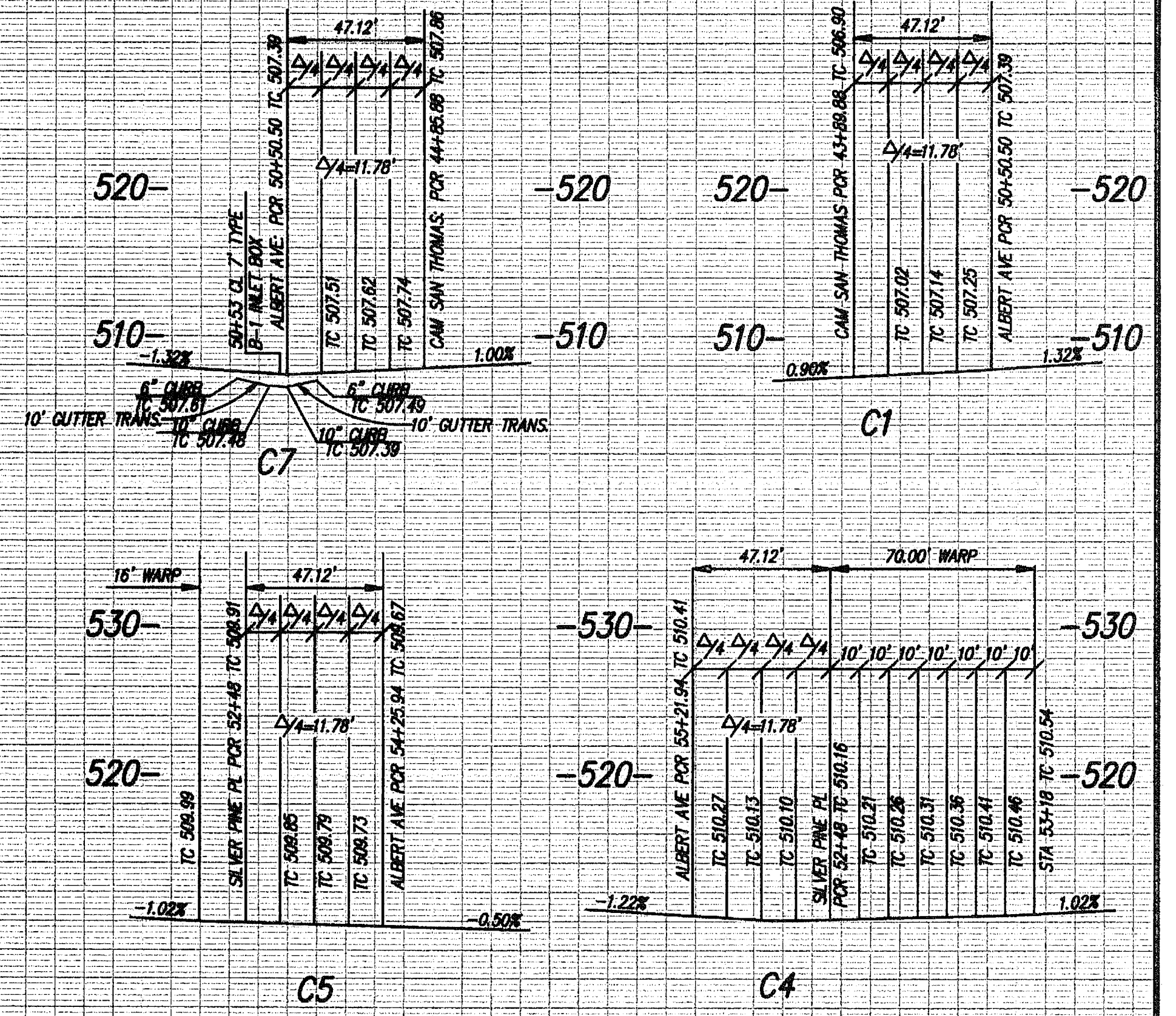
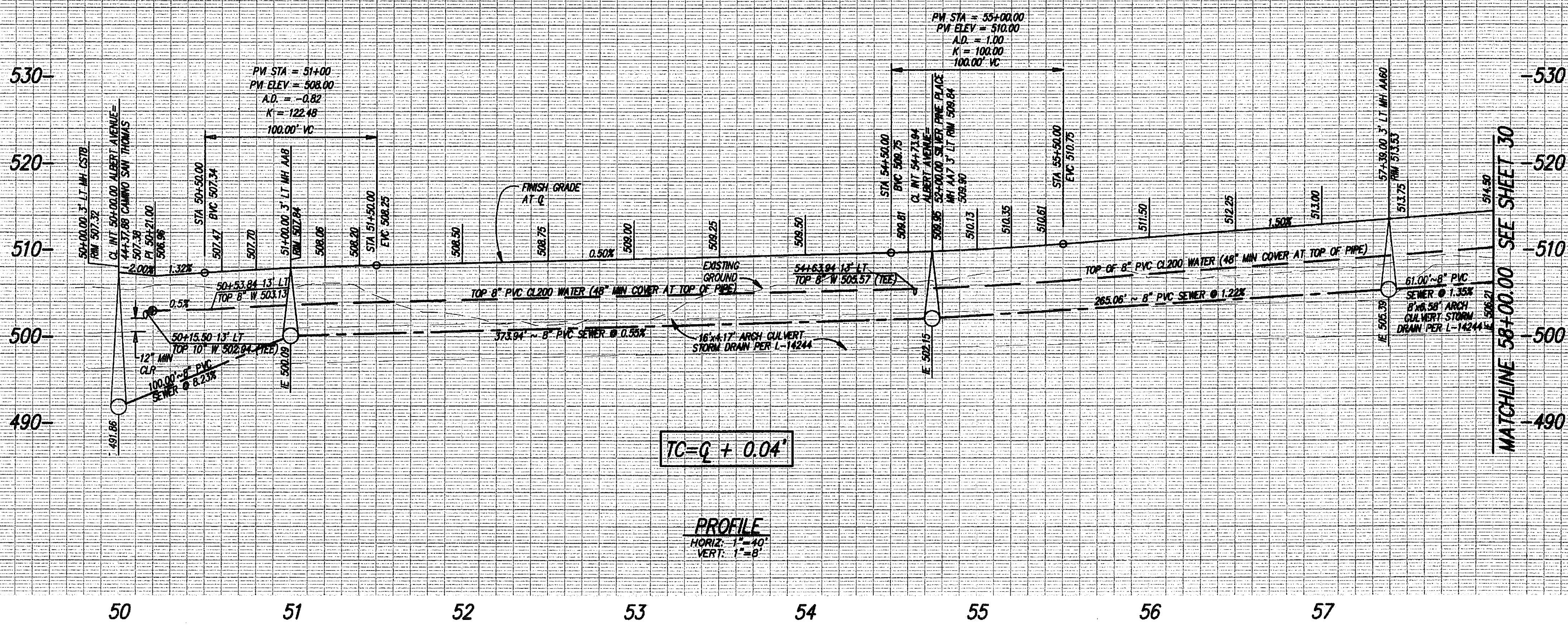
ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500

FILE NO.









**CENTERLINE DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	N35°06'51"E		800.00'

**CURB DATA TABLE**

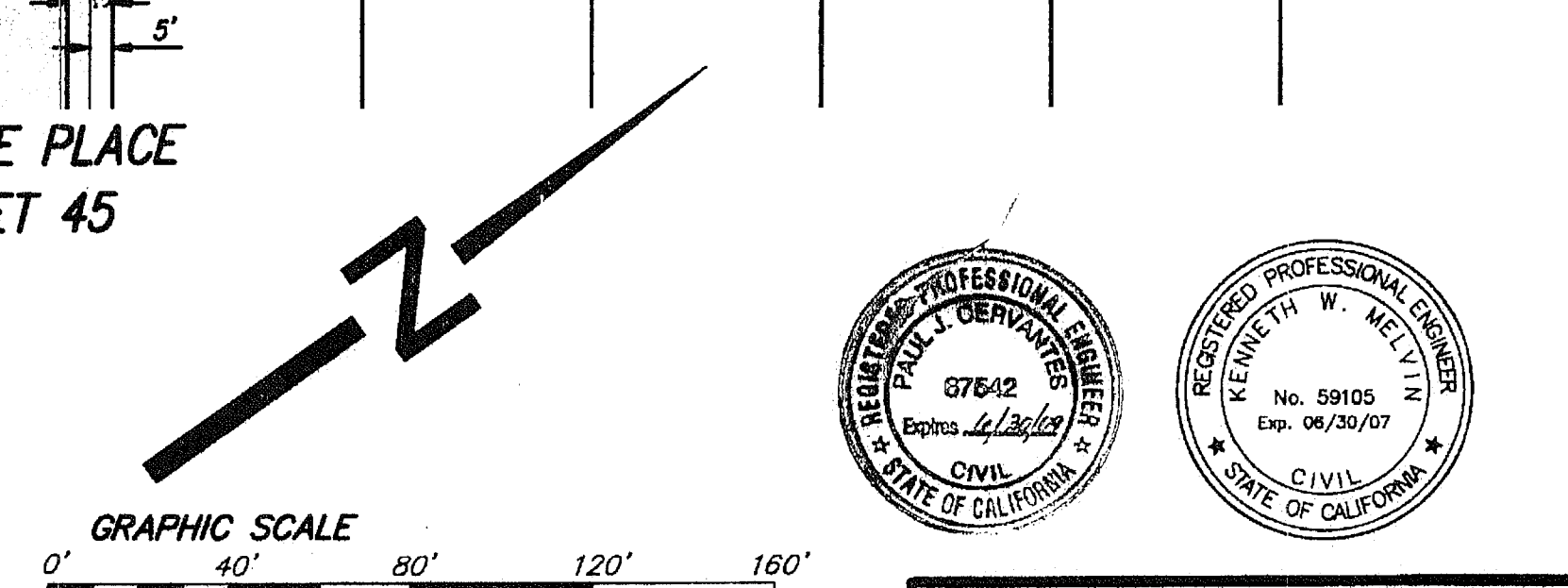
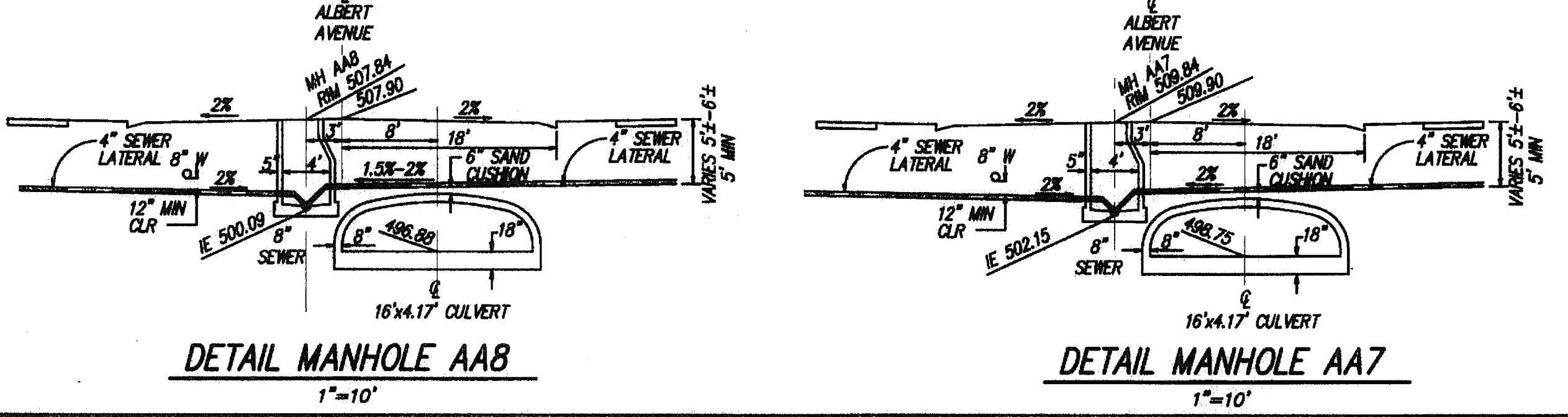
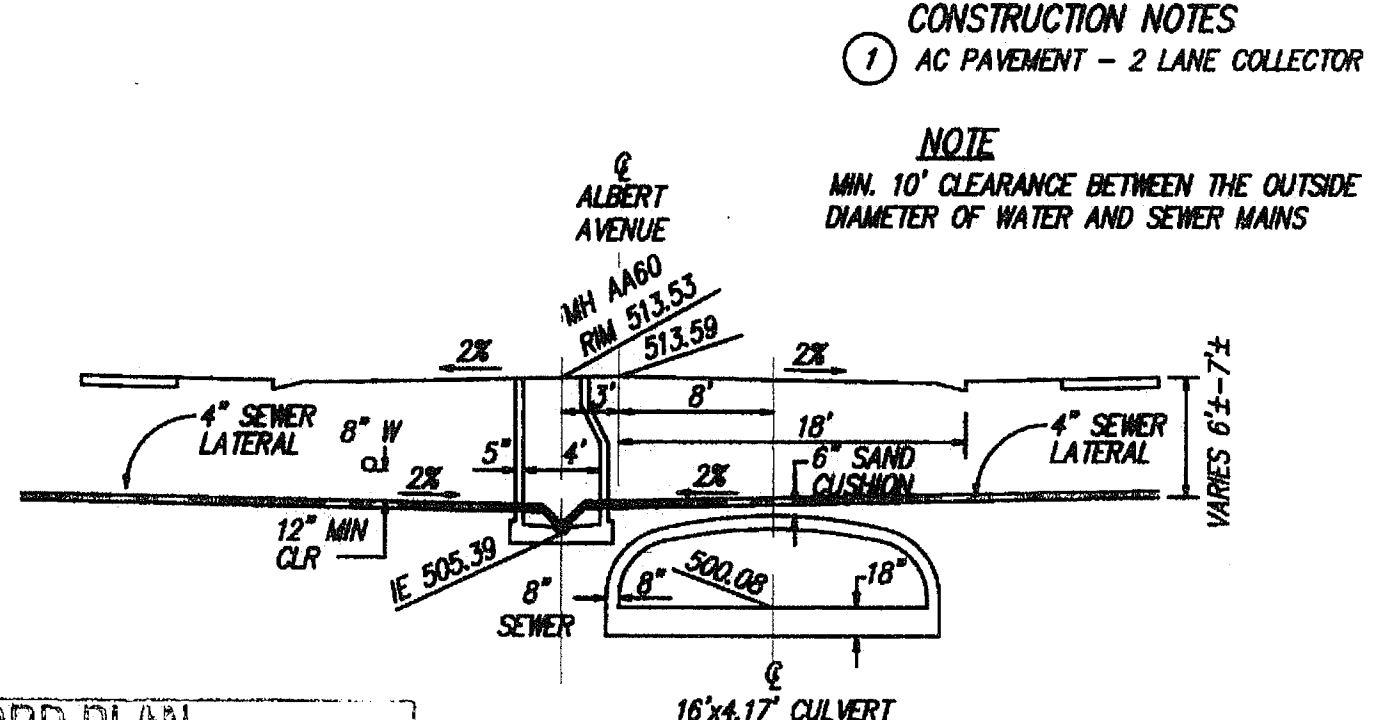
SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C2	N35°06'51"E		748.50'	6" TYPE 'B' C&G
C3	N35°06'51"E		278.06'	6" TYPE 'B' C&G
C4	90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C5	90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G
C6	N35°06'51"E		375.44'	6" TYPE 'B' C&G
C7	90°00'00"	30.00'	47.12'	6" TYPE 'B' C&G

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N35°06'51"E		100.00'	8" PVC SUR35
S2	N35°06'51"E		373.94'	8" PVC SUR35
S3	N35°06'51"E		265.06'	8" PVC SUR35
S4	N35°06'51"E		61.00'	8" PVC SUR35

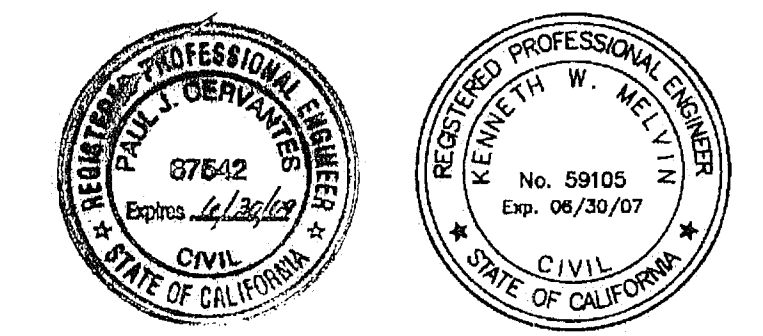
**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°06'51"E		448.44'	8" PVC CL200
W2	N35°06'51"E		336.06'	8" PVC CL200



RECORD PLAN  
PRINTED NAME: PAUL J. CERVANTES  
RCE NO. 67542  
EXP 6/30/09

DETAIL MANHOLE AA60  
1"=10'



**NOLTE**  
BEYOND ENGINEERING  
15090 AVENUE OF SCIENCE, SUITE 101, SAN DIEGO, CA 92128  
858.385.0500 TEL. 858.385.0400 FAX WWW.NOLTE.COM

COUNTY APPROVED CHANGES

No.	Description	Approved by	Date
1	REVISE TOTAL SHEETS, ADD TRUNCATED DOMES, THEN RECORD PLAN		

PERMITS

HABITAT LOSS PERMIT NO. N/A  
TENTATIVE MAP NO. TM 5229-1  
N.O.I. NO. 937S317382  
REZONE PERMIT NO. 95-001  
MAJOR USE PERMIT NO. PB7-036W3  
GRADING PERMIT NO. L-14244

BENCH MARK

DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
LS 3894  
LOCATION: C/L INTERSECTION THORNHUNT RD & CT  
RECORD FROM: CITY OF SAN DIEGO (PT. NO. 389, R.O.S. 14492)  
ELEVATION: 622.05  
DATUM: NGVD 29 (FEET)

PRIVATE CONTRACT

SHEET 29 OF 140 SHEETS

COUNTY OF SAN DIEGO  
DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE IMPROVEMENT OF:  
**ALBERT AVENUE STREET IMPROVEMENTS**  
50+00 TO 58+00

Recommended for approval: [Signature]  
SUBDIVISION ENGINEER

Approved by: [Signature]  
COUNTY ENGINEER

Checked by: [Signature]  
DATE: 12-14-05

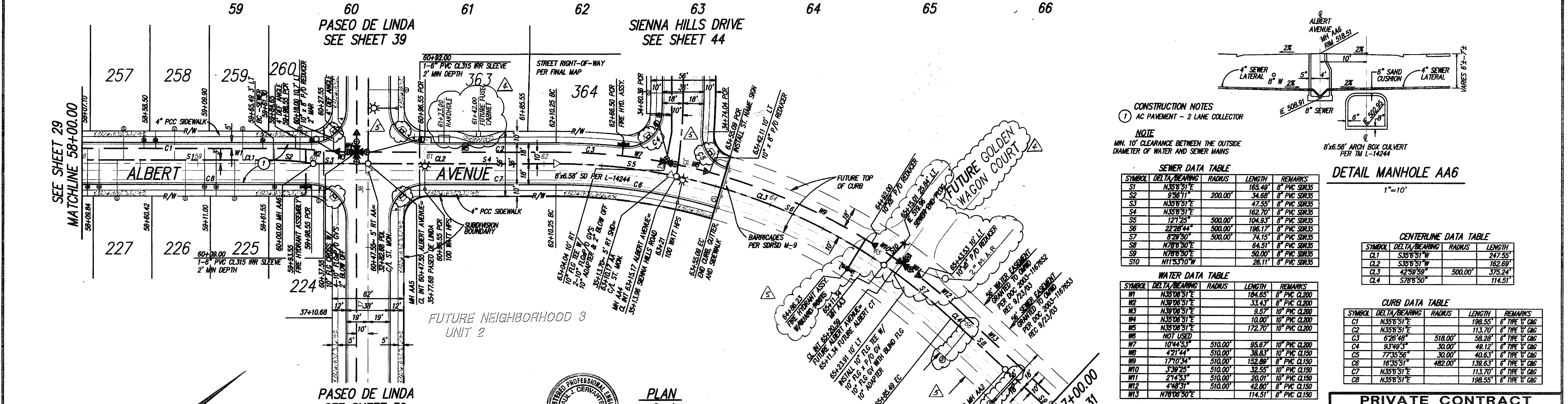
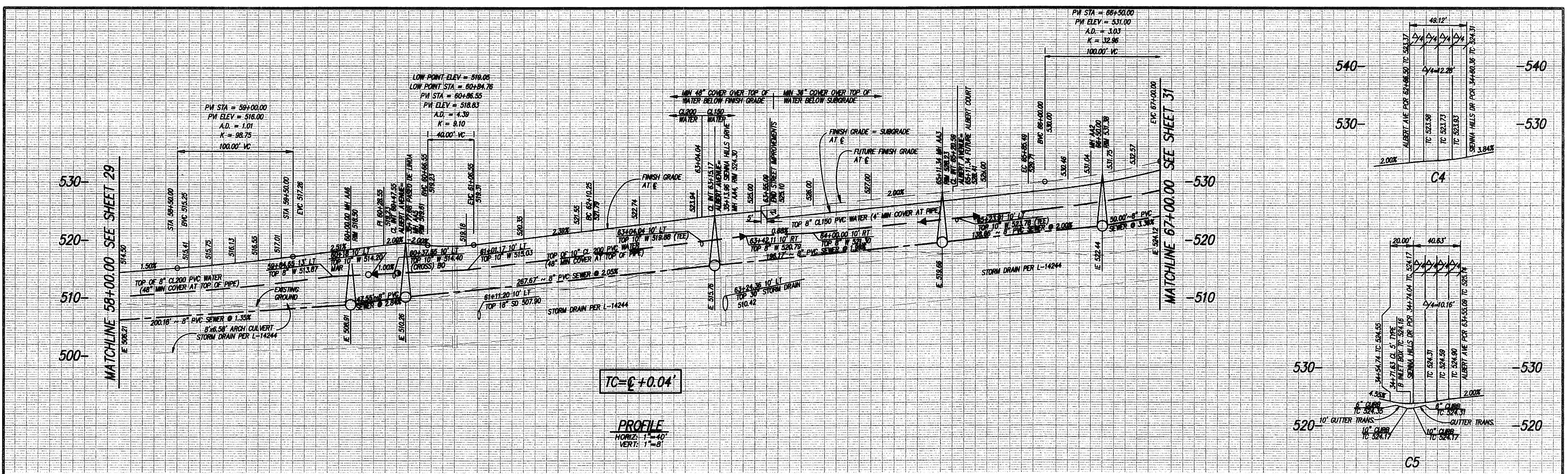
PROJECT NO. TM 5229-1

PLOT DATE: 11/08/03  
PLOT TIME: 10:38 a.m.  
PLOTTER: HP1020.DWG  
DRAWING NAME: IPU129.DWG

ENGINEER'S NAME: NOLTE ASSOCIATES  
PHONE NO. (858) 385-0500

FILE NO.





**CONSTRUCTION NOTES**  
 ① AC PAVEMENT - 2 LANE COLLECTOR

**NOTE**  
 MIN. 10' CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF WATER AND SEWER MAINS

**SEWER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
S1	N35°51'E		165.49'	8" PVC SDR35
S2	9°36'11"	200.00'	34.68'	8" PVC SDR35
S3	N35°51'E		47.55'	8" PVC SDR35
S4	N35°51'E		162.70'	8" PVC SDR35
S5	12°1'25"	500.00'	104.93'	8" PVC SDR35
S6	22°28'44"	500.00'	196.17'	8" PVC SDR35
S7	6°29'50"	500.00'	74.15'	8" PVC SDR35
S8	N78°50'E		64.51'	8" PVC SDR35
S9	N78°50'E		50.00'	8" PVC SDR35
S10	N115°31'0"W		26.11'	8" PVC SDR35

**WATER DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
W1	N35°51'E		184.65'	8" PVC CL200
W2	N30°26'51"E		33.43'	8" PVC CL200
W3	N30°26'51"E		9.57'	10" PVC CL200
W4	N35°51'E		10.00'	10" PVC CL200
W5	N35°51'E		172.70'	10" PVC CL200
W6	NOT USED			
W7	10°44'53"	510.00'	95.67'	10" PVC CL150
W8	4°21'44"	510.00'	38.63'	10" PVC CL150
W9	1°10'34"	510.00'	152.88'	8" PVC CL150
W10	3°39'25"	510.00'	32.55'	10" PVC CL150
W11	2°14'53"	510.00'	29.01'	10" PVC CL150
W12	4°48'31"	510.00'	42.80'	8" PVC CL150
W13	N78°50'E		114.51'	8" PVC CL150

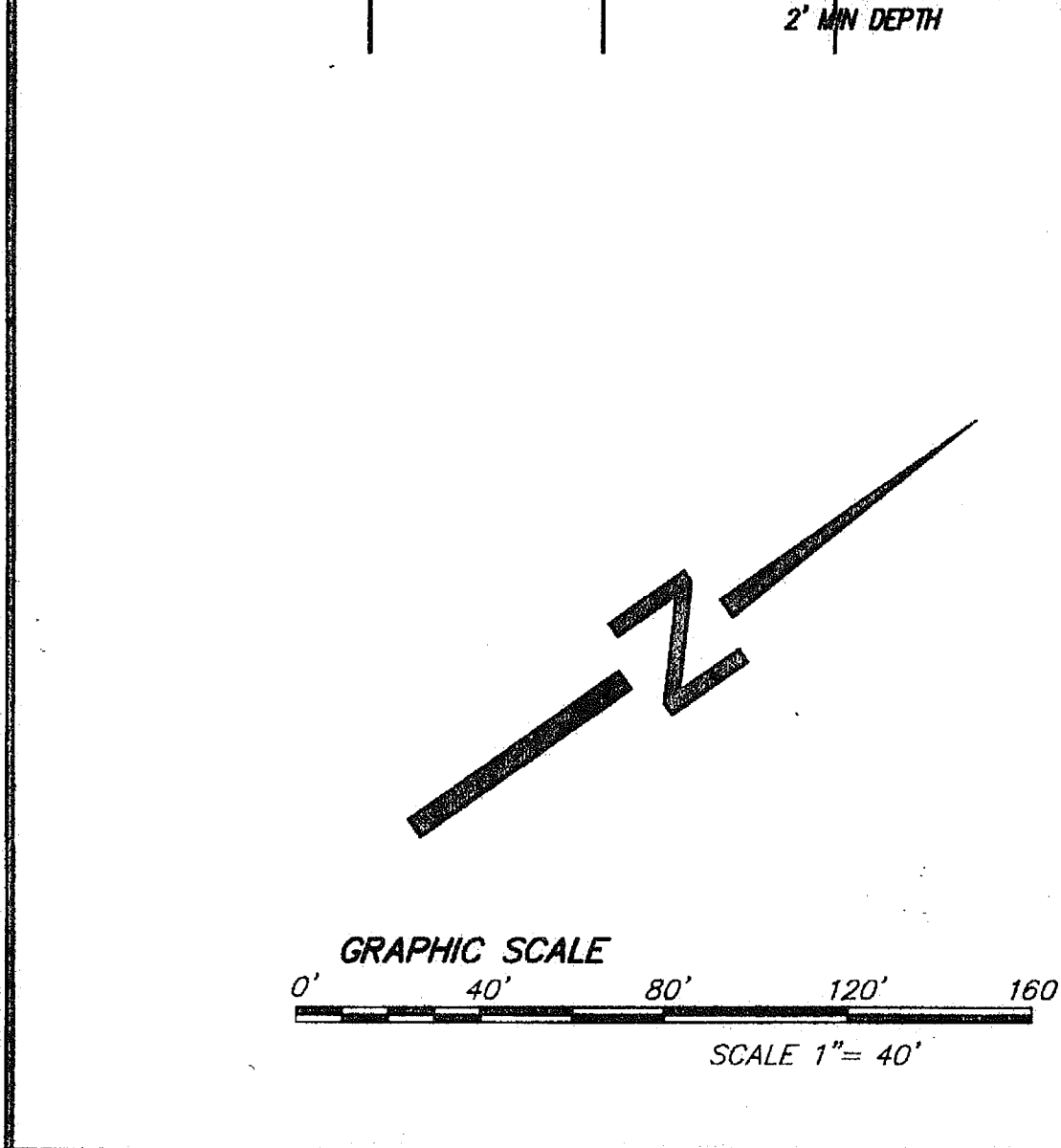
**DETAIL MANHOLE AA6**  
 1"=10'

**CENTERLINE DATA TABLE**

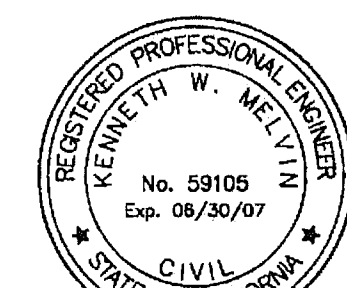
SYMBOL	DELTA/BEARING	RADIUS	LENGTH
CL1	S35°51'W		247.55'
CL2	S35°51'W		162.69'
CL3	42°58'39"	500.00'	375.24'
CL4	S78°50"		114.51'

**CURB DATA TABLE**

SYMBOL	DELTA/BEARING	RADIUS	LENGTH	REMARKS
C1	N35°51'E		198.55'	6" TYPE 5' C&G
C2	N35°51'E		113.70'	6" TYPE 5' C&G
C3	6°26'48"	518.00'	58.28'	6" TYPE 5' C&G
C4	9°44'53"	30.00'	49.12'	6" TYPE 5' C&G
C5	77°35'56"	30.00'	40.63'	6" TYPE 5' C&G
C6	18°35'51"	482.00'	139.63'	6" TYPE 5' C&G
C7	N35°51'E		113.70'	6" TYPE 5' C&G
C8	N35°51'E		198.55'	6" TYPE 5' C&G



**NOTE:**  
 CONTRACTOR SHALL MAINTAIN MINIMUM 3 FEET COVER OVER ONWD WATERLINES AT ALL TIMES DURING CONSTRUCTION.



**RECORD PLAN**  
 PRINTED NAME: Paul J. Cervantes 4/27/09  
 DATE: 12/17/03  
 EXC: 6/30/09

**NOLTE**  
 BEYOND ENGINEERING  
 15090 AVENUE OF SCIENCE, SUITE 101, SAN DIEGO, CA 92128  
 658.385.0500 TEL 658.385.0400 FAX WWW.NOLTE.COM

**COUNTY APPROVED CHANGES**

No.	Description	Approved by	Date
1	ADDED HANDHOLE, FUTURE FUSE CABINET, REV S/W & ST NAME, REV TOT SHTS	PLS.	12/17/03
2	ADD SEWER LATERALS AND TRUNCATED DUMPS AND MANHOLES DELETED END OF ALBERT AVENUE		

**PERMITS**  
 HABITAT LOSS PERMIT NO. N/A  
 TENTATIVE MAP NO. TM 5229-1  
 N.O.I. NO. 937S317382  
 REZONE PERMIT NO. 95-001  
 MAJOR USE PERMIT NO. P87-036W3  
 GRADING PERMIT NO. L-14244

**BENCH MARK**  
 DESCRIPTION: 3" BRASS DISK IN MONUMENT WELL STAMPED  
 LOCATION: C/L INTERSECTION THORNHILL RD & C4  
 ELEVATION: 622.05 DATUM: NGVD 29 (FEET)

**PRIVATE CONTRACT**  
 SHEET 30 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS  
 PLANS FOR THE IMPROVEMENT OF:  
**ALBERT AVENUE STREET IMPROVEMENTS 58+00 TO 67+00**  
 Recommended for approval: [Signature]  
 Approved: For DOUGLAS W. ISBELL  
 SUBDIVISION ENGINEER SOCIETY ENGINEER  
 Checked by: [Signature] 12-17-03  
 Approved date: 12-17-03  
 TM 5229-1  
 FILE NO.

ENGINEER'S NAME: NOLTE ASSOCIATES  
 PHONE NO. (858) 385-0500