STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ADJACENT TO STATE HIGHWAY
IN SAN DIEGO COUNTY IN ENCINITAS AT 0.3 km SOUTH OF LA COSTA AVENUE OVERCROSSING

To be supplemented by Standard Plans dated July, 1977

LOCATION OF CONSTRUCTION
STA 514+100 KP 70.7 PM 43.0

BEGIN WORK
STA 505+00

END WORK
STA 516+00

LOCATION MAP

AD-DRAWN AND DESIGNED IN CONFORMANCE WITH SCS-CALTRANS STANDARDS

February 26, 1999

Contract No. 11-574404
LEGEND
LC = LARGELY CONCRETE (TYPE C)

POD ACCESS ROAD
Sta 10+01.0 to 10+46 "CT*
Sta 11+41.2 to 11+70.4 "CT**

VEGETATED ACCESS ROAD
Sta 10+40 to 11+41.2 "CT*

TYPICAL CROSS SECTION

NOTE:
1. DIMENSIONS OF THE STRUCTURAL SECTION ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SEE CONSTRUCTION DETAIL SHEET FOR POURING PAVEMENT DETAILS.

NO SCALE

TYPICAL CROSS SECTION

X-1
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND
   APPROPRIATE SURVEY DATA SEE RIGHT
   OF WAY RECORDS WITH DISTRICT OFFICE.

2. ELEVATIONS SHOWN HEREIN ARE IN TERMS OF THE NORTH AMERICAN
   VERTICAL DATUM OF 1983 RESESS LOCALITY UPON THE FOLLOWING REFEREENCES:

   REFERENCE  NOM  ELEV  URL
   TK  101.664  COUNTY OF ORANGE
   RM  462.117  NOG
   CT  101.664  NOG

3. THE ALIGNMENT INFORMATION SHOWN ON THESE PLANS
   IS PROVIDED FROM COMPANY'S DATABASES.
   USE YOUR BEST JUDGMENT AND EXPERIENCE.

4. THE FOLLOWING GROSS/CLEARANCE LEVELS ARE AS FOLLOWS:
   12/15/78  9.2 m
   12/20/79  4.10 m

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LEGEND:

- [ ]  VEG
- [ ]  WEG
- [ ]  PCC
- [ ]  VEGETATED ACCESS

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
STORM DRAIN & MANHOLE STRUCTURE (TYPE X BASE)

GENERAL NOTES:
1. FITTERS MAY BE BASED OF 100mm, 200mm, 300mm, 400mm, OR 500mm SECTIONS.
2. EACH FITTER SHALL MAINTAIN 500mm OF UNDISTURBED SECTION SHOWN.
3. THE FITTER SHALL BE SUPPLEMENTED WITH BASE STRUCTURE OR SSA BASE.
4. ALL PRECAST COMPONENTS FOR UPPER PORTION TYPE MH SHALL BE INSTALLED WITHIN 100mm OF MANHOLE CENTER:
   a. FITTER PLACEMENT SHALL BE 100mm OF CENTER.
   b. FITTER PLACEMENT SHALL BE 100mm OF MANHOLE CENTER.

UPPER STRUCTURE:

TYPICAL UPPER STRUCTURE AND MANHOLE JUNCTION

DRAINAGE DETAILS

DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

AS-CONSTRUCTED PLANS

QUALITY CONTROL

DATE: APRIL 2023

GENERAL CONTRACTOR:

STORM DRAIN & MANHOLE STRUCTURE (TYPE X BASE)
HALF SECTION FRAME AND COVER

DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

FINISHED SURFACE

FOR INNER COVER, SEE DETAIL "F"

SEE DETAIL "E"

SEE DETAIL "C" MATERIAL AND SHEET E-8

SEE DETAIL "D"

NOTE:

1. COVER SHELL BE MARKED "CAUTION, CALIFORNIA" AND "STAINLESS STEEL" FOR FRAME AND COVER.

2. STAINLESS STEEL AT WATER QUALITY MONITORING VALVE LOCATIONS SEE SHEET D-9.

900MM MANHOLE FRAME AND TWO CONCENTRIC COVERS

DRAINAGE DETAILS
MANHOLE COVER LOCK

NOTES:
1. M16 x 1.5 x 32 UNC THREAD. STAINLESS STEEL NUT. MED. GAGE. 0.4241" O.D., 0.375" W.L., 0.2935" THICK.
2. 2.00" X 3/4" DRAIN GROOVE.
3. INSTALL IN ACCORDANCE WITH DETAIL #6, SHEET A-A.
4. STAINLESS STEEL, 304L, SATIN (180 Grit), 0.025" MIN. THICKNESS.
5. BOLTING PATTERNS:
   - BETWEEN TOP AND OUTER COVER
   - BETWEEN OUTER COVER AND FRAME
6. INSTALLATION METHODS.

SEE DETAIL "A".

AS-CONSTRUCTED PLANS

The above drawings are only intended to provide a general idea of the work to be performed. The final drawings and plans will be in accordance with the New York City Sewerage Commission specifications, and the plans and specifications, which are a part of this contract, will supersede this drawing in the event of any discrepancies.
**ROCK SLOPE PROTECTION (METHOD B)**

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<th>Layer</th>
<th>Diameter (in)</th>
<th>Width (in)</th>
<th>Height (in)</th>
<th>Length (in)</th>
<th>Type</th>
<th>Tension (lb)</th>
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**DRAINAGE SYSTEM NO. 1**

**FILTER FABRIC OVERLAP**

**DRAINAGE DETAILS**

**PLAN**

**SECTION B-B**

**SECTION A-A**

**SECTION C-C**

**NOTE:**

Rock fabric to be placed over all rock slope protection per filter fabric overlay panel.
CONSTRUCTION AREA SIGNS

SUMMARY OF QUANTITIES

AS-CONSTRUCTED PLANS

CONSTRUCTION AREA SIGN AND TRAFFIC HANDLING DETAILS AND QUANTITIES

RAMP CLOSED
FROM JAN. 23
THRU
FEB 1, JAN. 27
6:00 AM-6 PM

NEW WAYS OPEN EIGHT HOURS AFTER THE ULTIMATE REMOVAL OF SIGNS, WITH BOXES AND KNEE CONES.
### ROADWAY ITEMS

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<th>DESCRIPTION</th>
<th>LANE COUNT</th>
<th>LANE WIDTH</th>
<th>LANE TOTAL</th>
<th>BEARING</th>
<th>SUPER ELEVATION</th>
<th>CENTERLINE</th>
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<td>120</td>
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**NOTE:** Not a separate pay item

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### METAL BEAM GUARD RAILING (WOOD POST)

| METAL BEAM GUARD RAILING (WOOD POST) | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|
| Description                          | Length | Height | Weight | Number | Notes | Description | Length | Height | Weight |
| **TOTALS**                            |        |        |        |        |       |             |        |        |        |

**NOTE:** Not a separate pay item, for information only.
# Plant List and Planting Specifications

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<th>Plant No.</th>
<th>Symbol</th>
<th>Botanical Name</th>
<th>Common Name</th>
<th>Size</th>
<th>Quantity</th>
<th>Hole Size (in.)</th>
<th>Basin Type</th>
<th>Iron Sulfate</th>
<th>Commercial Fertilizer</th>
<th>Mulch</th>
<th>Planting Limits</th>
<th>Remarks</th>
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**Applicable when circled:**
1. Quantities shown are "per plant" unless shown as "per application rate.
2. Sufficient to receive root ball.
3. Does not apply to any areas.
4. As shown on plans.
5. See detail.
6. Each random group shall include 3' HAC, S44, S44, and S44.
7. Each random group shall include 4'HAC, S44, S44, S44, and S44.
8. Each random group shall include 5'HAC, S44, S44, S44, and S44.
9. Plant at right edge of the specified planting area.

**Note:**
Underlined portions of botanonical indicate observations used on planting plans.

**Legend:**
- **Seed Type 1**
- **Seed Type 2**
- **Transplanted**

**“As Constructed Plan**
The contractor is responsible for making all necessary adjustments to comply with these plans as may be necessary to achieve the best possible results and to maintain the beauty and utility of the worksite.
NOTES
1. All holes in wood posts and blocks shall be 30 mm dia ± 0.6 mm.
2. Dimensions shown for wood post are nominal.

SIDE  FRONT
150 mm x 200 mm WOOD POST

SIDE  FRONT
200 mm x 200 mm WOOD BLOCK

SIDE  FRONT
250 mm x 250 mm WOOD POST

SIDE  FRONT
200 mm x 200 mm WOOD BLOCK

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING
WOOD POSTS AND WOOD BLOCKS

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN
REvised STANDARD PLAN RSP A77C
**EXISTING**

- WATER METER (BY OTHERS (VAM)
- BACKFLOW PREVENTER ASSEMBLY (BPA)
- BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPE)
- BACKFLOW PREVENTER ENCLOSURE (BPE)
- BOOSTER PUMP (BPI)
- TANK LOADING STANDPIPE (TLS)
- FLOW SENSOR (FS)
- MASTER IRRIGATION CONTROLLER (MIC)
- AUXILIARY IRRIGATION CONTROLLER (AIC)
- IRRIGATION CONTROLLER (IC)
- IRRIGATION CONTROLLERS IN CONTROLLER ENCLOSURE CABINET (ICC)
- CONTROL AND NEUTRAL CONDUCTORS (CN)
- SPRINKLER CONTROL CONDUIT (CSC)
- CONDUIT (CC)
- GALVANIZED STEEL PIPE (/gpl)
- GALVANIZED STEEL PIPE SUPPLY LINE (GSS)
- PLASTIC PIPE (PP)
- PLASTIC PIPE (PL)
- PLASTIC PIPE IRRIGATION LINE (PLI)
- REMOTE CONTROL VALVE (RCV)
- REMOTE CONTROL VALVE (RCV)
- MANUFACTURED VALVE (MNV)
- MANUAL CONTROL VALVE (MCV)
- VALVE ASSEMBLY UNIT (VAU)
- VALVE ASSEMBLY UNIT (VAU)
- FILTER ASSEMBLY UNIT (FAU)
- GATE VALVE (GV)
- BALL VALVE (BV)

**PROPOSED**

- QUICK COUPLING VALVE (QC)
- PRESSURE REDUCING VALVE (PRV)
- PRESSURE RELIEF VALVE (PRV)
- FLOW CONTROL VALVE (FCV)
- COMBINATION AIR RELEASE VALVE (CARV)
- CHECK VALVE (CV)
- FLUSH VALVE (FLV)
- NOZZLE LINE W/TUING UNION (NLW)
- IRRIGATION SYSTEM (IS)
- IRRIGATION SYSTEM TO BE REMOVED (ISR)
- CHAIN LINE GATE (CLG)
- QUICK COUPLING VALVE W/SPRINKLER PROTECTOR (QCV)
- SPRINKLER W/SPRINKLER PROTECTOR (SPW)
- CONNECT TO EXISTING SYSTEM (CET)
- CAP (CP)
- CAP EXISTING (CE)

**VALVE CODE**

- *REV SIZE (mm)*
- *IRRIGATION CONTROLLER (IC)*
- *CONTROLLER STATION (CS)*
- *VALVE IN PARALLEL IF APPLICABLE (VPP)*
- *L/n (L)*
- *QUANTITY OF TYPE C, O, OR E SPRINKLERS (QTE)*

- *REV SIZE (mm)*
- *VALVE NUMBER (VNUM)*
- *L/n (L)*
- *QUANTITY OF TYPE C, O, OR E SPRINKLERS (QTE)*

**PLANTING AND IRRIGATION SYMBOLS**

- RSP H2 DATED DECEMBER 4, 1997 SUPERSEDES STANDARD PLAN H2

**REVISED STANDARD PLAN RSP H2**
1. For additional details of Terminal System (Type ET), refer to the manufacturer's installation instructions.

2. Terminal System (Type ET) must be constructed so that the full length of the terminal system guard railing is in straight alignment. The Guard Rail Extruder head of the terminal system should not approach upon the adjacent paved shoulder or lane. A traffic approach flare of 50° for the full length of Terminal System (Type ET) installation shall be used to keep the Guard Rail Extruder head from marooning upon the adjacent paved shoulder or lane.

3. Slide Guard Rail Extruder over the end of the rail element and attach to Post No. 1 with lag screws. Guard Rail Extruder attachment brackets have 3 holes in each bracket to provide tolerance adjustments. Use the holes in the bracket closest to center of Post No. 1. Drill 6 mm pilot holes to accommodate lag screws.

4. Attach strut to Post Nos. 1 and 2 foundation tubes with hex head bolts, washers and hex nuts. Bolts extend through the strut, steel foundation tube, and wood post, threaded side of strut to face downward.

5. For length and type of guard railing or barrier the terminal system is attached to, see Project Plans. For minimum length of guard railing used with terminal system and treatments, see Revised Standard Plans RSP A70 and RSP A71.

6. Attach rail element to this post and block. Payment for this post, block and hardware included in payment for the type of railing or barrier the terminal system is attached to. See payment for Terminal System (Type ET).

7. Yellow retroreflective sheeting, as provided by Terminal System (Type ET) manufacturer, shall be adhered to the face of extruder head. The sheeting shall be consistent with the design pattern and colors of a Type I object marker panel.

8. Attach rail to Post No. 2 (no wood block) in same manner shown in section A-A. Do not bolt rail to Post No. 1, see Note 3.

9. Terminal System (Type ET) is an in-line end treatment for guard railing or barrier railing, where site conditions will not accommodate use of a flared end treatment. Do not use Terminal System (Type ET) where extrusion of the rail on the back side of the installation would be in the path of pedestrian or vehicle traffic.

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**SECTION A-A**

- Bolt type and wood post attachment to steel foundation tube similar to Post Nos. 1, 2 and 4. Wood blocks not used with Post Nos. 1 and 2. See Note 6. See Note 8.

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**SECTION B-B**

- Post Nos. 5, 7 and 8 similar except rail elements are not attached to Post Nos. 5 and 7.

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**GUARD RAILING AND BARRIER RAILING END TREATMENT**

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

NSP A77M DATED AUGUST 6, 1998 SUPPLEMENTS THE STANDARD PLANS DATED JULY 1997

NEW STANDARD PLAN NSP A77M