# RIVERSIDE CALIFORNIA

## PUBLIC WORKS DEPARTMENT

# LARAMIE ROAD
# STORM DRAIN

## LAREDO ROAD TO RUMSEY DRIVE

## CONSTRUCTION LEGEND

| | | | |
|---|---|---|---|
| CENTER LINE | ——℄—— | TOP OF SLOPE | |
| RIGHT-OF-WAY LINE | ——R/W—— | TOE OF SLOPE | |
| SUBDIVISION LOT LINE | ——℄—— | DIRECTION OF FLOW | |

R & OL — REMOVE EX. PAVEMENT SECTION OR P.C.C. SPANDRELS AS SHOWN ON PLANS. REPLACE WITH 0.42' FULL DEPTH A.C.

OL VAR — OVERLAY EX. STREET SURFACE WITH A VARIABLE THICKNESS OF A.C. AS REQUIRED TO ACHIEVE THE ELEVATIONS SHOWN ON THE PLANS.

## SPECIFIC CONSTRUCTION NOTES

⬢ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET BELOW. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

⬢ ADJ — ADJUST WATER GATE VALVE OR STORM DRAIN MANHOLE FRAME AND COVER TO GRADE

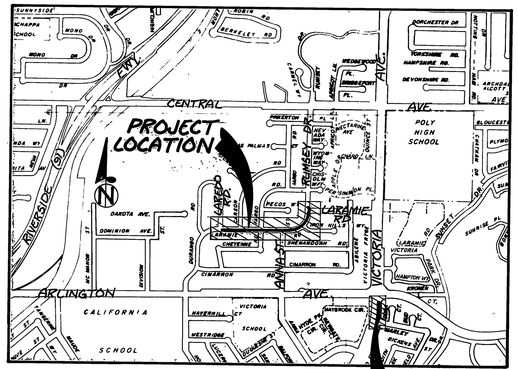
⬢ N8B — STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS, DATED JULY 1984.

## GENERAL CONSTRUCTION NOTES

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE & PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS —∿—∿— INDICATES THAT THE COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
2. ALL PROF ELEVATIONS SHOWN ON THE PLAN SHALL BE STAKED IN THE FIELD.
3. EXISTING 42" RCP AT STA. 12+96.50 SHALL BE EXPOSED AND ELEVATION VERIFIED BY CITY SURVEYORS PRIOR TO THE ISSUANCE OF GRADE SHEETS.
4. PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A" C-34 OR C-12 LICENSE.
5. PERMANENT TRENCH RESURFACING SHALL BE A MIN. 0.42' FULL DEPTH A.C. OVER NATIVE MATERIAL.

## SPECIAL NOTE:

THIS STORM DRAIN PROJECT WAS DESIGNED TO ACCOMODATE LOW FLOWS ONLY AND TO PREVENT DEBRIS ACCUMULATION IN THE STREET ASSOCIATED WITH NUISSANCE WATER FLOWS. SEE CITY PROJECT FILE FOR 10 YEAR STORM HYDROLOGY STUDY FOR ACTUAL STREET FLOW VOLUMES ('28').




## PROJECT LOCATION PLAN

0 500' 1000' 2000' 3000' 4000' 5000' 6000'
0 0.5 KM. 1 KM. 1.5 KM.

SCALE 1" = 1000'

## EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

### EXISTING UNDERGROUND UTILITIES:

| | | | |
|---|---|---|---|
| SANITARY SEWER | ——8"S—— | TELEPHONE CONDUIT | ——T——T—— |
| WATER LINE | ——6"W—— | ELECTRICAL CONDUIT | ——E——E—— |
| STORM DRAIN | ——24"S.D.—— | ELECTROLIER LIGHTING CONDUIT | ——ELC—— |
| GAS LINE | ——3"G—— | TRAFFIC SIGNAL | ——SIG——SIG—— |
| IRRIGATION LINE | ——20"IRR.—— | FIRE ALARM | ——F——F—— |
| ABANDONED UTILITY | ——6"G(ABAN'D.)—— | | |

### EXISTING TOPOGRAPHY:

| | | | |
|---|---|---|---|
| BLOCK WALL | | TOP OF SLOPE | |
| BOARD FENCE | | TOE OF SLOPE | |
| WIRE FENCE | | DIRECTION OF FLOW | |
| CHAIN LINK FENCE | | | |

| | | | |
|---|---|---|---|
| SANITARY SEWER M.H. | POLE & GUY ANCHOR | PEDESTRIAN PUSH BUTTON | |
| SANITARY SEWER CLEANOUT | ELECTRIC POLE | RAILROAD TRACKS | |
| STORM DRAIN M.H. | TELEPHONE POLE | RAILROAD SIGN | |
| IRRIGATION WEIR | JOINT USE POLE | RAILROAD SIGNAL | |
| WATER M.H. | PULL BOX | STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM | |
| GAS M.H. | TRAFFIC SIGN | STREET LIGHT (UPRIGHT) | |
| ELECTRIC M.H. | PARKING METER | STREET LIGHT | |
| TELEPHONE M.H. OR VAULT | FIRE ALARM BOX | TRAFFIC SIGNAL | |
| WATER METER | STREET NAME SIGN | TRAFFIC SIGNAL ON MAST ARM | |
| FIRE HYDRANT | GAS METER | TRAFFIC SIGNAL CONTROLLER | |
| SPRINKLER HEAD | MAIL BOX | TRAFFIC SIGNAL PRESSURE DETECTOR | |
| VALVE | FAUCET | TRAFFIC SIGNAL LOOP DETECTOR | |
| AIR VALVE | TELEPHONE RISER | | |
| AIR VENT | WHEEL STOP | | |
| | A.C. BERM | | |
| | STEEL POST | | |
| | WOOD POST | | |

CONCRETE
ASPHALT
EP (asphalt) (dirt) EP — EDGE OF PAVEMENT
BUILDING
UNDERGROUND STRUCTURE
OVERHANGING STRUCTURE

CITRUS TREE
OR DECIDUOUS TREE
OR PALM TREE
OR SHRUBBERY
TREE STUMP
EVERGREEN TREE

INDEXED 10-2-87 GH

**Underground Service Alert**
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

ENGINEER IN RESPONSIBLE CHARGE
Ronald C. Mueller
RONALD C. MUELLER
R.C.E. 29510 expires 3-31-91
DATE 8-14-87

REGISTERED PROFESSIONAL ENGINEER — RONALD C. MUELLER — NO. 29510 Expires: 3-31-91 — CIVIL — STATE OF CALIFORNIA

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

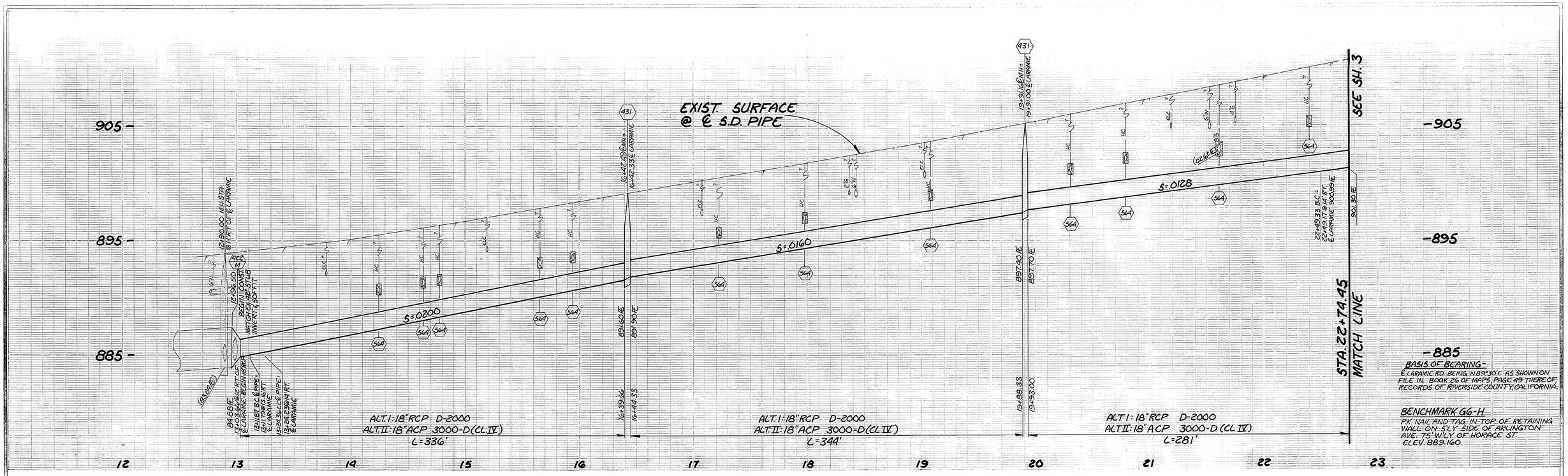
| | BY | DATE |
|---|---|---|
| APPROVED BY | | |
| PRINCIPAL ENGINEER | JMC | 8/17/87 |
| CHIEF PW. ENGINEER | [illegible] | 8-18 |
| TRAFFIC DIVISION | [illegible] | 8-6-87 |
| CHIEF P.W. INSPECTOR | RCC | 8-13-87 |
| SURVEYOR | [illegible] | 8/11/87 |

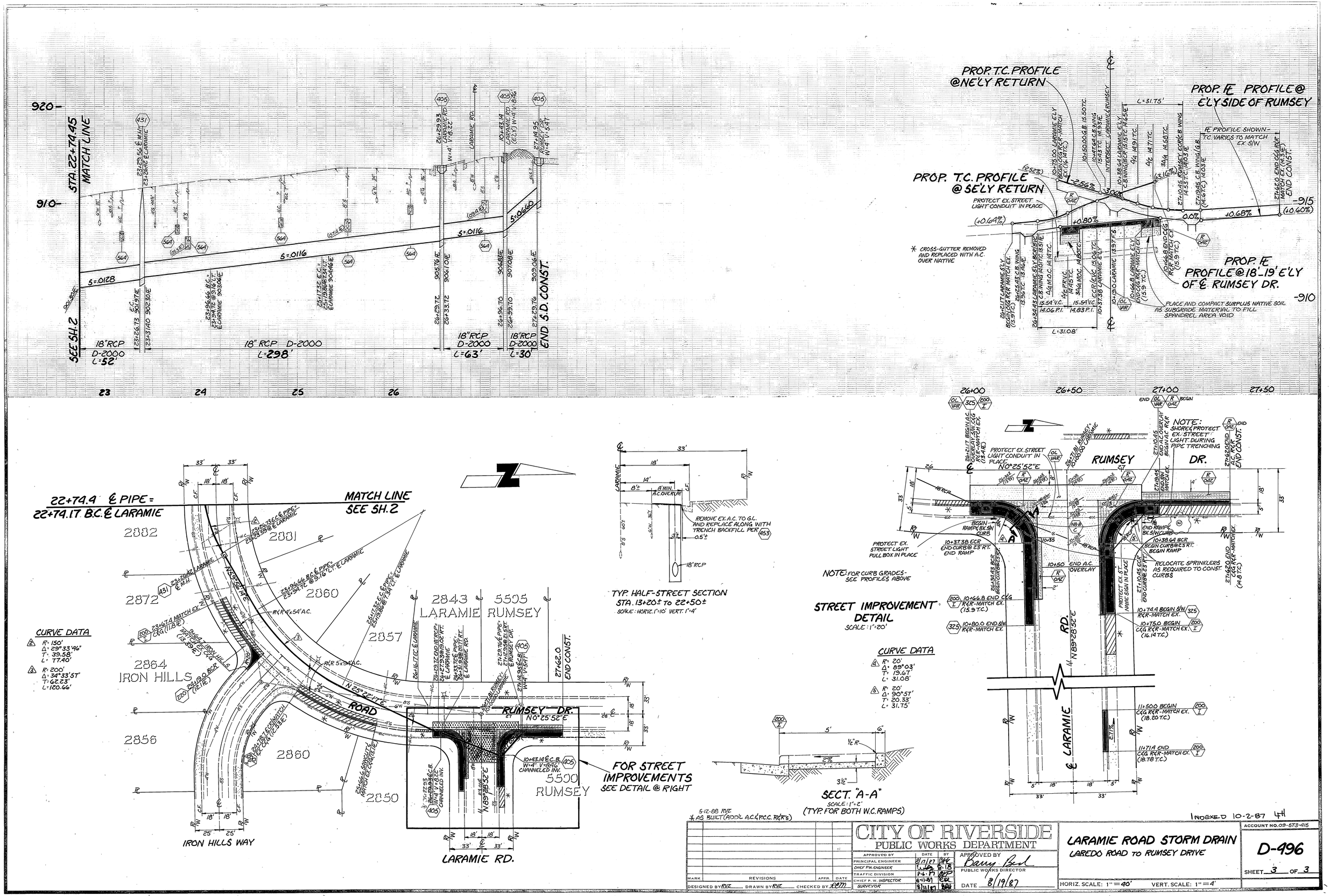
APPROVED BY: Barry Beck
PUBLIC WORKS DIRECTOR
DATE 8/19/87

LARAMIE ROAD STORM DRAIN
LAREDO ROAD TO RUMSEY DRIVE

ACCOUNT No. 09-573-416
DRAWING NUMBER D-496
SHEET 1 OF 3

DESIGNED BY RVC DRAWN BY RVC CHECKED BY RPM


EXIST. SURFACE @ ℄ S.D. PIPE
905
895
885
S=0200
S=0160
S=0128
ALT.I: 18" RCP D-2000
ALT.II: 18" ACP 3000-D (CL.IV)
L=336'
L=344'
L=281'
STA. 22+74.45 MATCH LINE
SEE SH. 3
12
13
14
15
16
17
18
19
20
21
22
23
BASIS OF BEARING-
℄ LARAMIE RD. BEING N89°30'E AS SHOWN ON FILE IN BOOK 26 OF MAPS, PAGE 49 THERE OF, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
BENCHMARK G6-H
P.K. NAIL AND TAG IN TOP OF RETAINING WALL ON S'LY SIDE OF ARLINGTON AVE. 75' W'LY OF HORACE ST. ELEV. 889.160
NOTE: UNLESS OTHERWISE SPECIFIED ON PLAN, C&G ℄ IS TO BE STRAIGHT GRADED BETWEEN MATCH POINTS - C.F. SHALL VARY SO THAT T.C. SHALL MATCH EX. FRONT OF S/W.
LAREDO RD.
CARSON RD.
FARGO RD.
CHEYENNE RD.
ANNA ST.
LARAMIE ROAD
N89°30'E
MATCH LINE
SEE SH. 3
22+74.45 ℄ PIPE = 22+74.17 B.C. ℄ LARAMIE
3067
3041
3027
2980
2975
2963
2941
2929
2917
2905
2893
3064
3050
3038
3026
3014
3000
2988
2974
2964
2940
2926
2912
2890
EXPOSE EXIST. M.H. LID & ADJUST FRAME & COVER TO STREET GRADE
BEGIN CONST.
CURVE DATA
R= 90'
Δ= 7°57'03"
T= 6.25'
L= 12.49'
LARAMIE RD.
PROTECT EX. 6"W IN PLACE (SEE NOTES @ RIGHT)
REMOVE THIS SECTION OF 24" RCP & RECONNECT EX. 24" RCP
EX. 24" R.C.P.
EX. 42" R.C.P.
34°51'40"
PROP. 18" R.C.P.
BEGIN CONST.
DETAIL "A"
JUNCTION STRUCTURE
@ STA. 12+96.50
SCALE: 1"=4'
NOTES:
1. CONTRACTOR TO SUBMIT BRACING DRAWINGS SHOWING VERTICAL AND LATERAL SUPPORT OF 6" WATER LINE ABOVE PROP. CONSTRUCTION OF JUNCTION STRUCTURE. DRAWING TO BE SUBMITTED TO WATER ENGINEERING FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. WATER ENGINEERING TO BE NOTIFIED 72 HOURS PRIOR TO CONSTRUCTION OF STORM DRAIN JUNCTION STRUCTURE.
* AS BUILT (ADD'L S/W R&R) 5-12-88 RVZ
INDEXED 10-2-87
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY
PRINCIPAL ENGINEER
CHIEF P.W. ENGINEER
TRAFFIC DIVISION
CHIEF P.W. INSPECTOR
SURVEYOR
APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 8/19/87
LARAMIE ROAD STORM DRAIN
LAREDO ROAD TO RUMSEY DRIVE
ACCOUNT NO. 09-573-415
D-496
SHEET 2 OF 3
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'
DESIGNED BY RVZ
DRAWN BY RVZ
CHECKED BY RCM



STA. 22+74.45 MATCH LINE
SEE SH. 2
18" RCP D-2000 L=52'
18" RCP D-2000 L=298'
18" RCP D-2000 L=63'
18" RCP D-2000 L=30'
END S.D. CONST.
S=.0128
S=.0116
S=.0660
PROP. T.C. PROFILE @ NE'LY RETURN
PROP. T.C. PROFILE @ SE'LY RETURN
PROP. ℄ PROFILE @ E'LY SIDE OF RUMSEY
PROP. ℄ PROFILE @ 18'-19' E'LY OF ℄ RUMSEY DR.
PROTECT EX. STREET LIGHT CONDUIT IN PLACE
* CROSS-GUTTER REMOVED AND REPLACED WITH A.C. OVER NATIVE
PLACE AND COMPACT SURPLUS NATIVE SOIL AS SUBGRADE MATERIAL TO FILL SPANDREL AREA VOID
L=31.75'
L=31.08'
22+74.4 ℄ PIPE = 22+74.17 B.C. ℄ LARAMIE
MATCH LINE SEE SH. 2
2882
2881
2872
2860
2864 IRON HILLS
2857
2843 LARAMIE
5505 RUMSEY
2856
2860
2850
5500 RUMSEY
ROAD
RUMSEY DR.
N0°25'52"E
N25°22'17"E
N89°28'52"E
IRON HILLS WAY
LARAMIE RD.
FOR STREET IMPROVEMENTS SEE DETAIL @ RIGHT
CURVE DATA
R=150' Δ=29°33'46" T=39.58' L=77.40'
R=200' Δ=34°33'57" T=62.23' L=120.66'
TYP. HALF-STREET SECTION STA. 13+20± TO 22+50±
SCALE: HORIZ. 1"=10' VERT. 1"=4'
REMOVE EX. A.C. TO G.L. AND REPLACE ALONG WITH TRENCH BACKFILL PER
SECT. "A-A"
SCALE: 1"=2'
(TYP. FOR BOTH W.C. RAMPS)
NOTE: SHORE & PROTECT EX. STREET LIGHT DURING PIPE TRENCHING
PROTECT EX. STREET LIGHT CONDUIT IN PLACE
PROTECT EX. STREET LIGHT PULL BOX IN PLACE
NOTE: FOR CURB GRADES - SEE PROFILES ABOVE
RELOCATE SPRINKLERS AS REQUIRED TO CONST. CURBS
STREET IMPROVEMENT DETAIL
SCALE: 1"=20'
CURVE DATA
R=20' Δ=89°03' T=19.67' L=31.08'
R=20' Δ=90°57' T=20.33' L=31.75'
℄ LARAMIE RD.
N89°28'52"E
5-12-88 RVZ
* AS BUILT (ADD'L A.C. & P.C.C. R&R's)
INDEXED 10-2-87
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY
PRINCIPAL ENGINEER
CHIEF P.W. ENGINEER
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LAREDO ROAD TO RUMSEY DRIVE
ACCOUNT NO. 09-573-415
D-496
SHEET 3 OF 3
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'
DESIGNED BY RVZ DRAWN BY RVZ CHECKED BY RCM