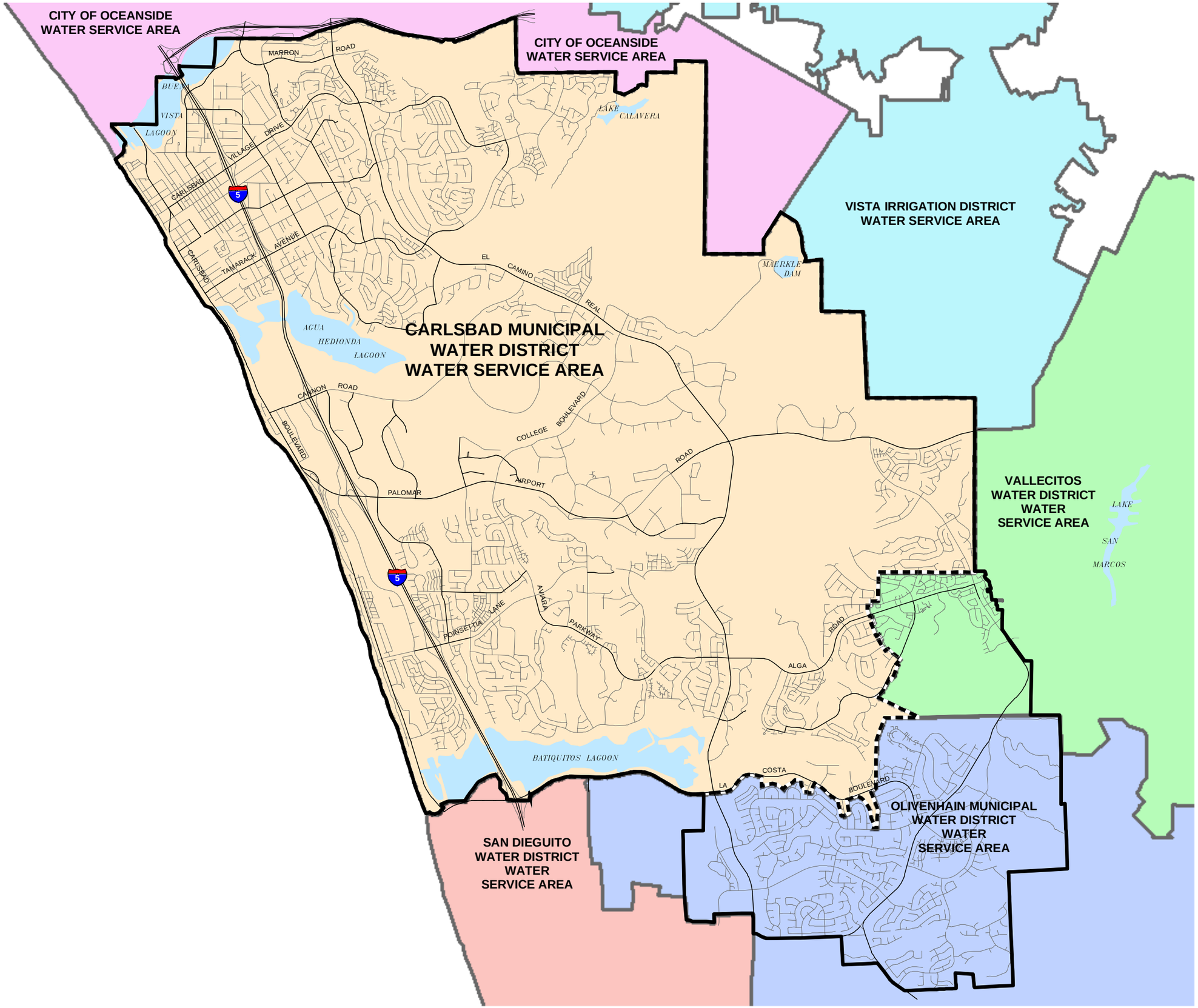


LEGEND

- CITY OF CARLSBAD BOUNDARY
- CARLSBAD MUNICIPAL WATER DISTRICT BOUNDARY

N

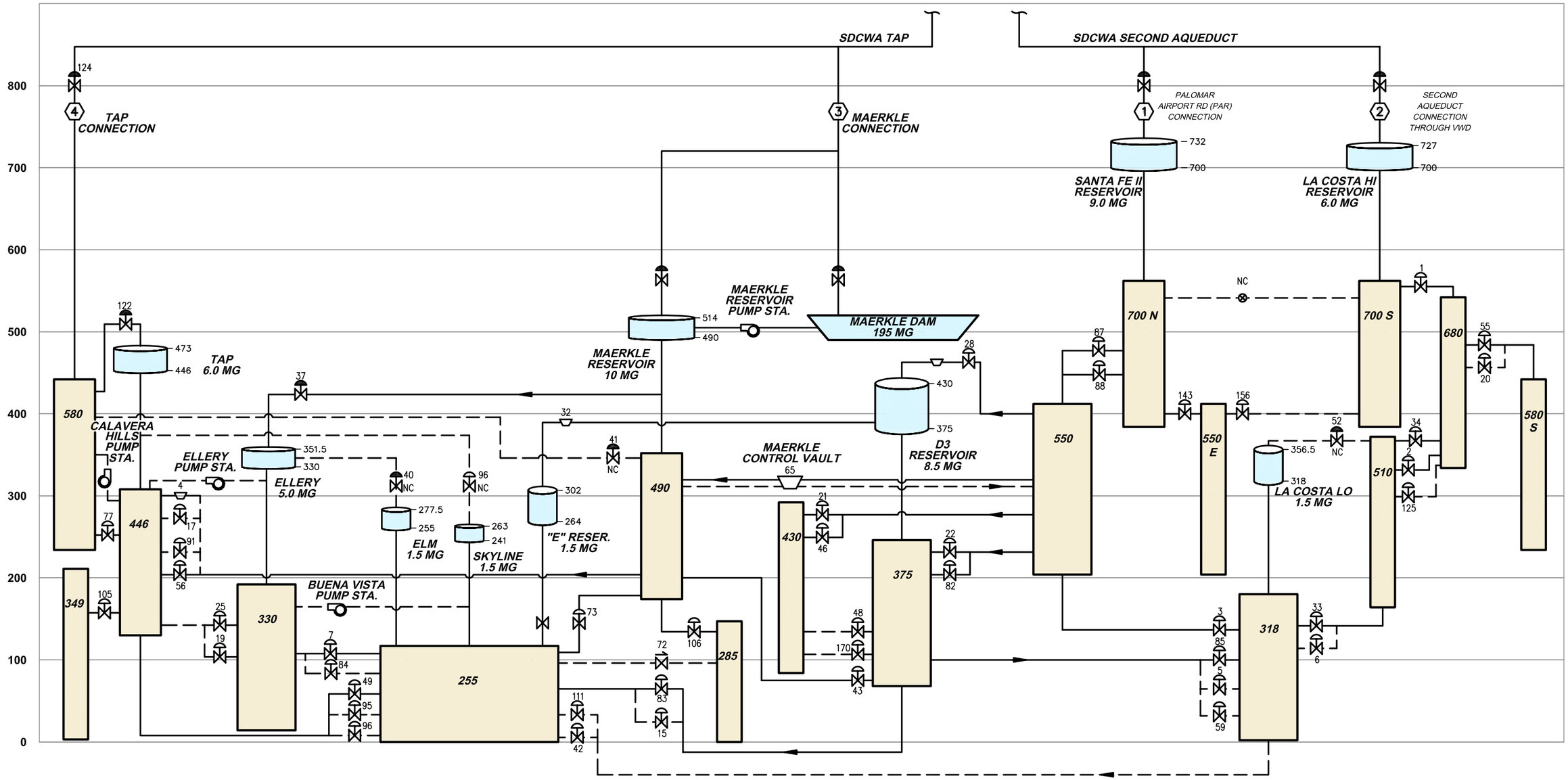
1"=4500'

FIGURE 1-1

CARLSBAD MUNICIPAL WATER DISTRICT WATER SERVICE AREA

DUDEK & ASSOCIATES, INC.
Professional Teams for Complex Projects

02-2003 Carlsbadwa11.mxd



LEGEND

EXISTING FACILITIES:

- SDCWA FLOW CONTROL
- PRV OR PRV/PSV COMBINATION
- PSV
- CHECK VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- NORMALLY CLOSED VALVE
- PUMP STATION
- HWL / BASE ELEV. — STORAGE RESERVOIR
- PRIMARY SUPPLY
- EMERGENCY OR BACK-UP SUPPLY

NOTE:

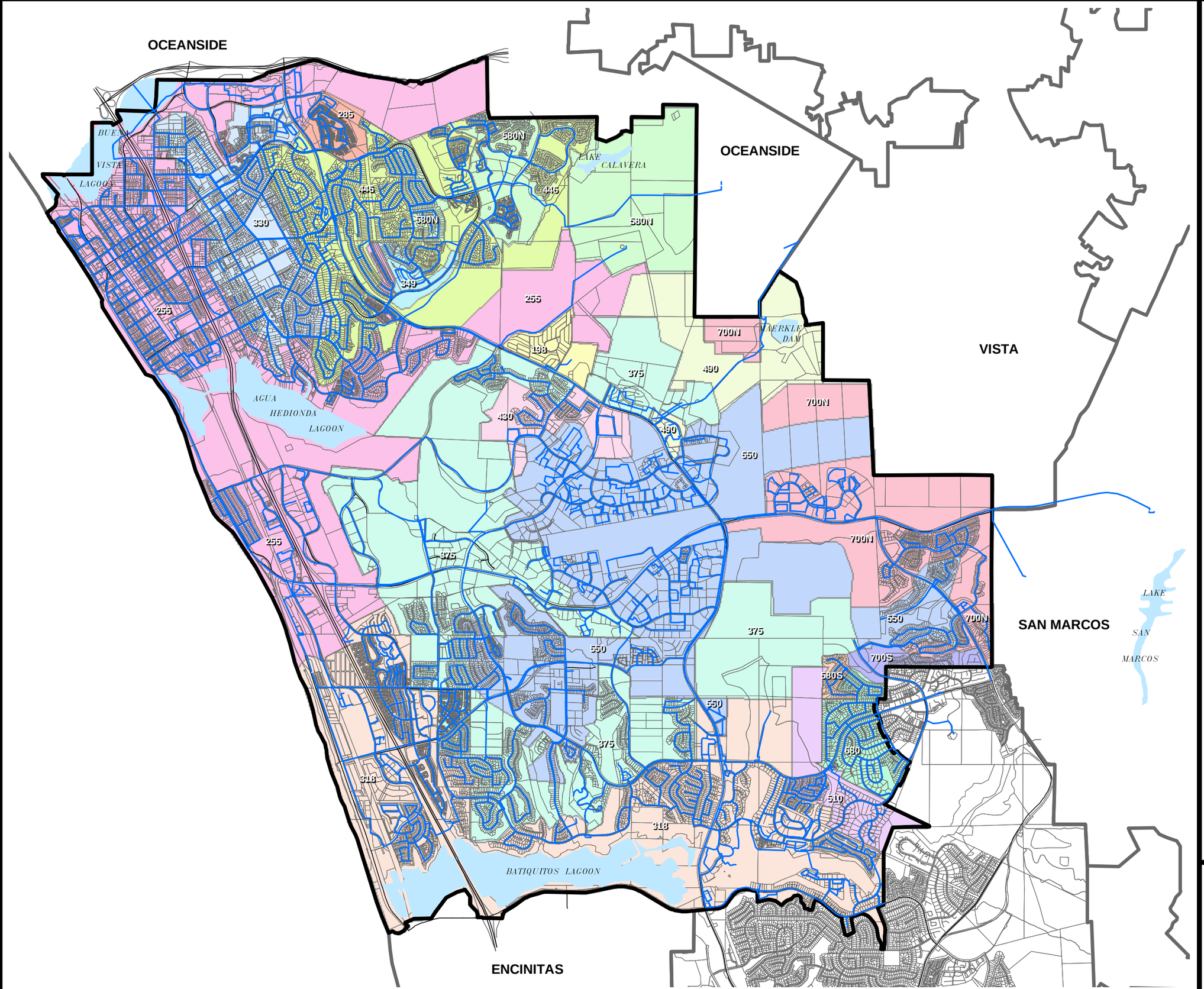
VALVE ID NUMBERS CORRESPOND TO ID NUMBERS IN THE CONTROL VALVE SUMMARY TABLES.

FIGURE 3-1

CARLSBAD MUNICIPAL WATER DISTRICT
EXISTING SYSTEM HYDRAULIC PROFILE

DUDEK & ASSOCIATES, INC.

P:\Engineering\Carlsbad\3194-Wa_WW-MP-update\02-Water\CADD\3194-Hyd-schem.dwg -- Mar 14, 2003, 10:30am



CITY OF CARLSBAD CALIFORNIA

LEGEND

WATER SERVICE AREA BOUNDARY

EXISTING DISTRIBUTION SYSTEM

PRESSURE ZONE BOUNDARIES

198	349	510
255	375	550
285	430	580N
318	446	580S
330	490	680
		700N
		700S

N

1"=4000'

FIGURE 3-2

CARLSBAD MUNICIPAL WATER DISTRICT PRESSURE ZONE SERVICE AREAS

DUDEK & ASSOCIATES, INC.
Professional Teams for Complex Projects

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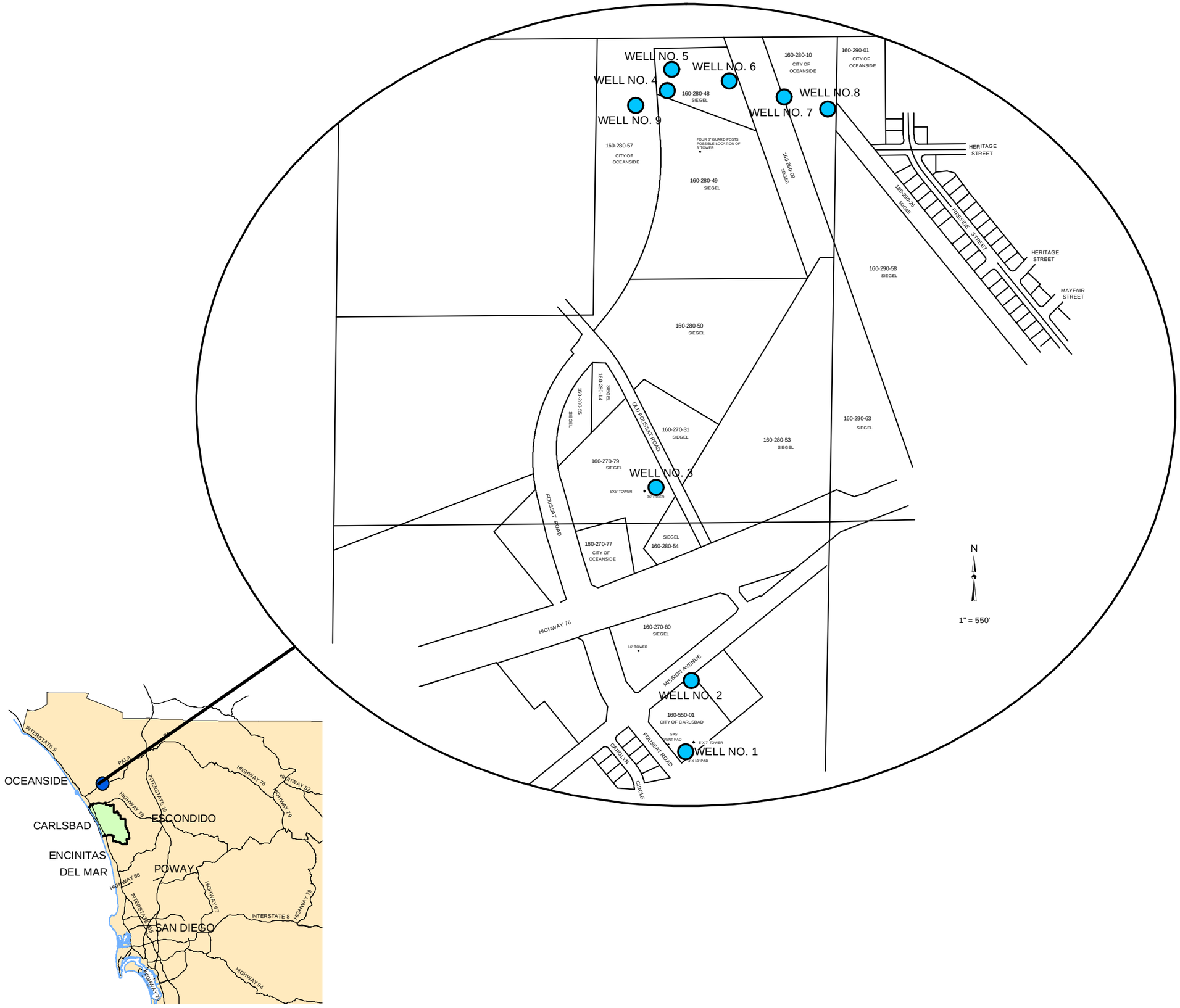


Legend

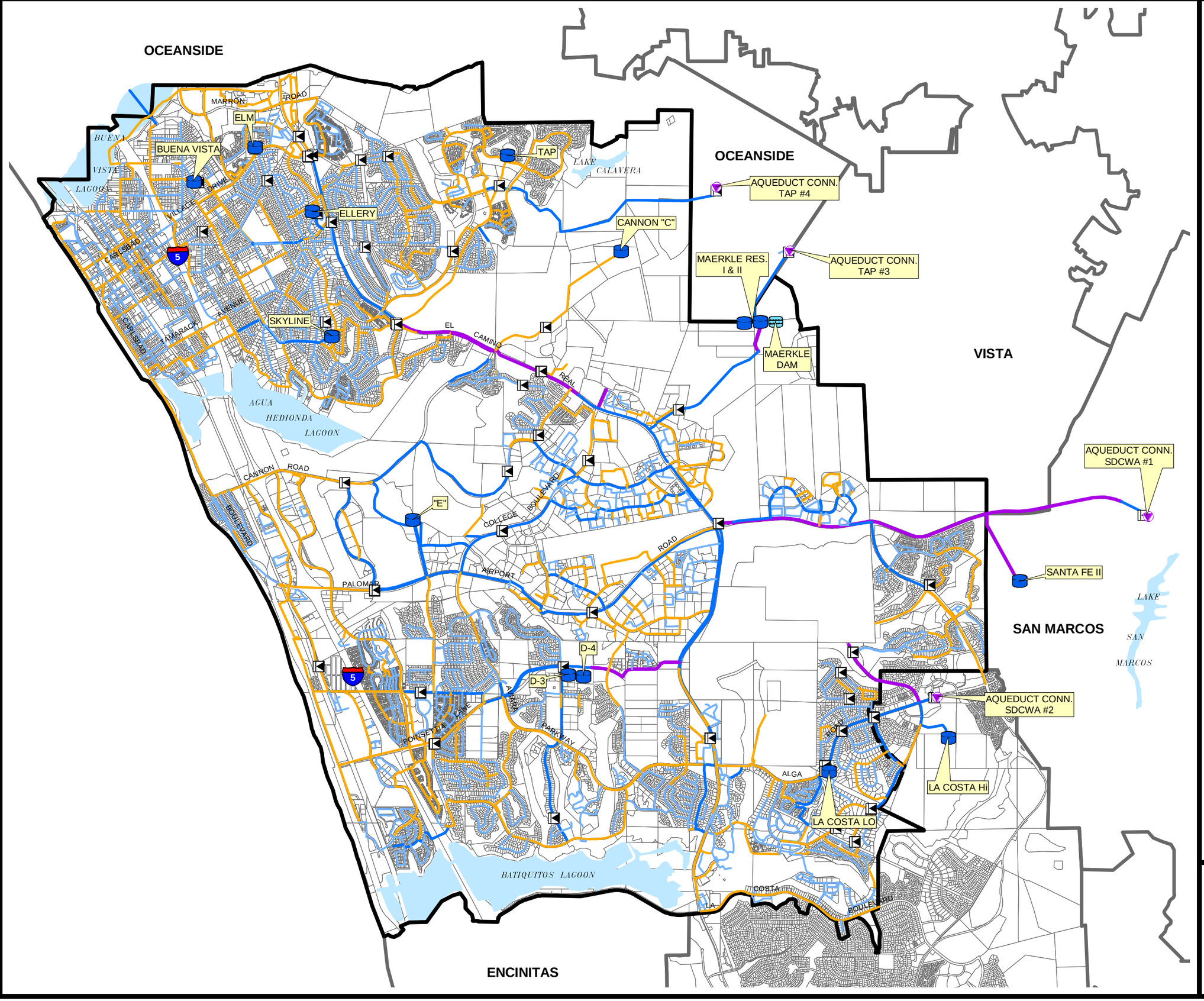
WELL LOCATIONS

FIGURE 3-3

CARLSBAD MUNICIPAL WATER DISTRICT
SAN LUIS REY GROUNDWATER WELLS

DUDEK & ASSOCIATES, INC.
Professional Teams for Complex Projects

03-2003 Carlsbadwa33.mxd



Legend

- WATER SERVICE AREA BOUNDARY

PIPELINES BY DIAMETER

- 4 - 8 INCH
- 10 - 14 INCH
- 16 - 28 INCH
- 30 - 48 INCH

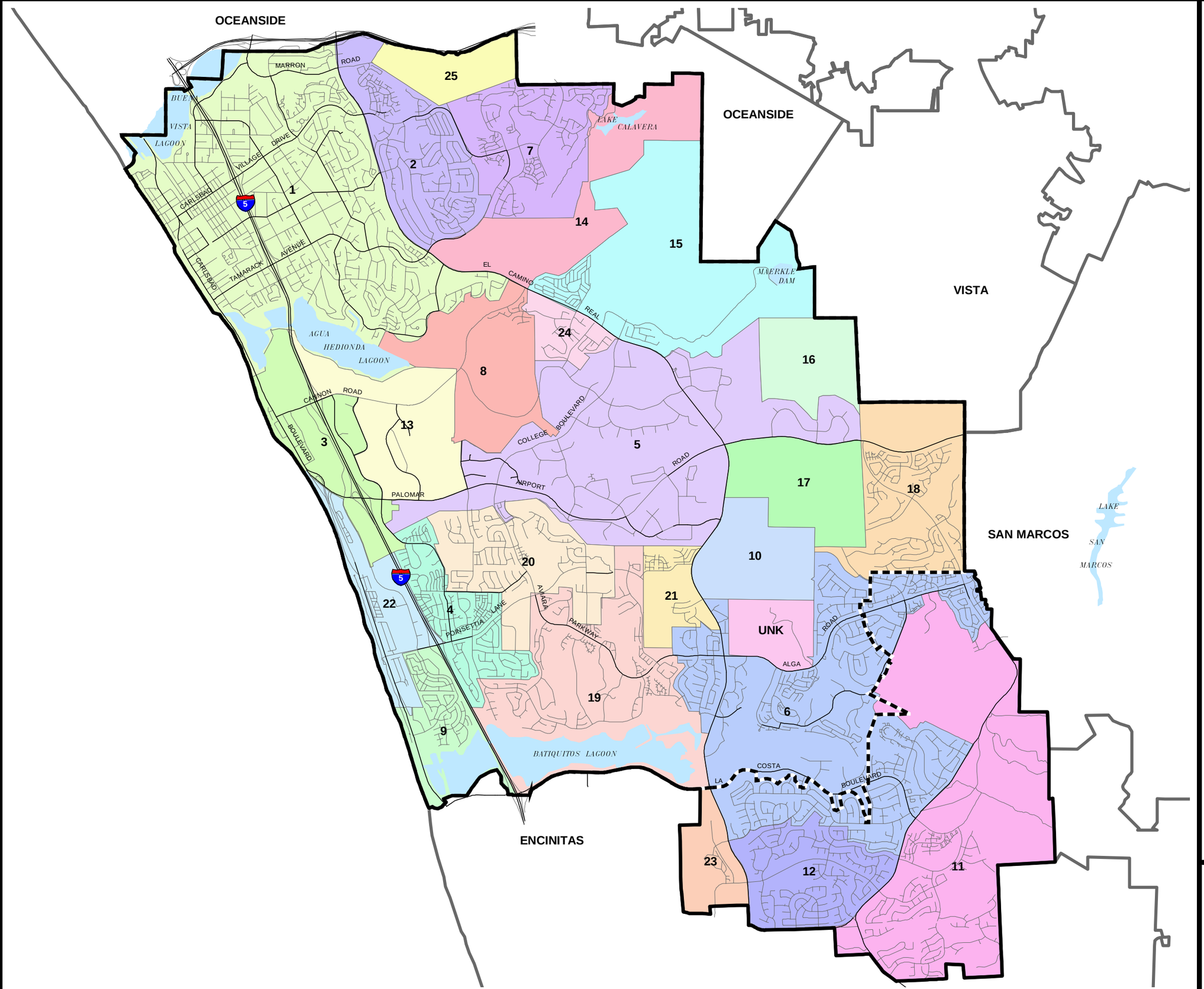
- PRESSURE REDUCING STATIONS
- AQUEDUCT CONNECTION
- DAM
- TANK

FIGURE 5-1

CARLSBAD MUNICIPAL WATER DISTRICT EXISTING WATER DISTRIBUTION SYSTEM MODEL

DUDEK & ASSOCIATES, INC.
Professional Teams for Complex Projects

02-2003 Carlsbadwa51.mxd



LEGEND

CITY OF CARLSBAD BOUNDARY

WATER SERVICE AREA BOUNDARY

LFMZ BOUNDARIES

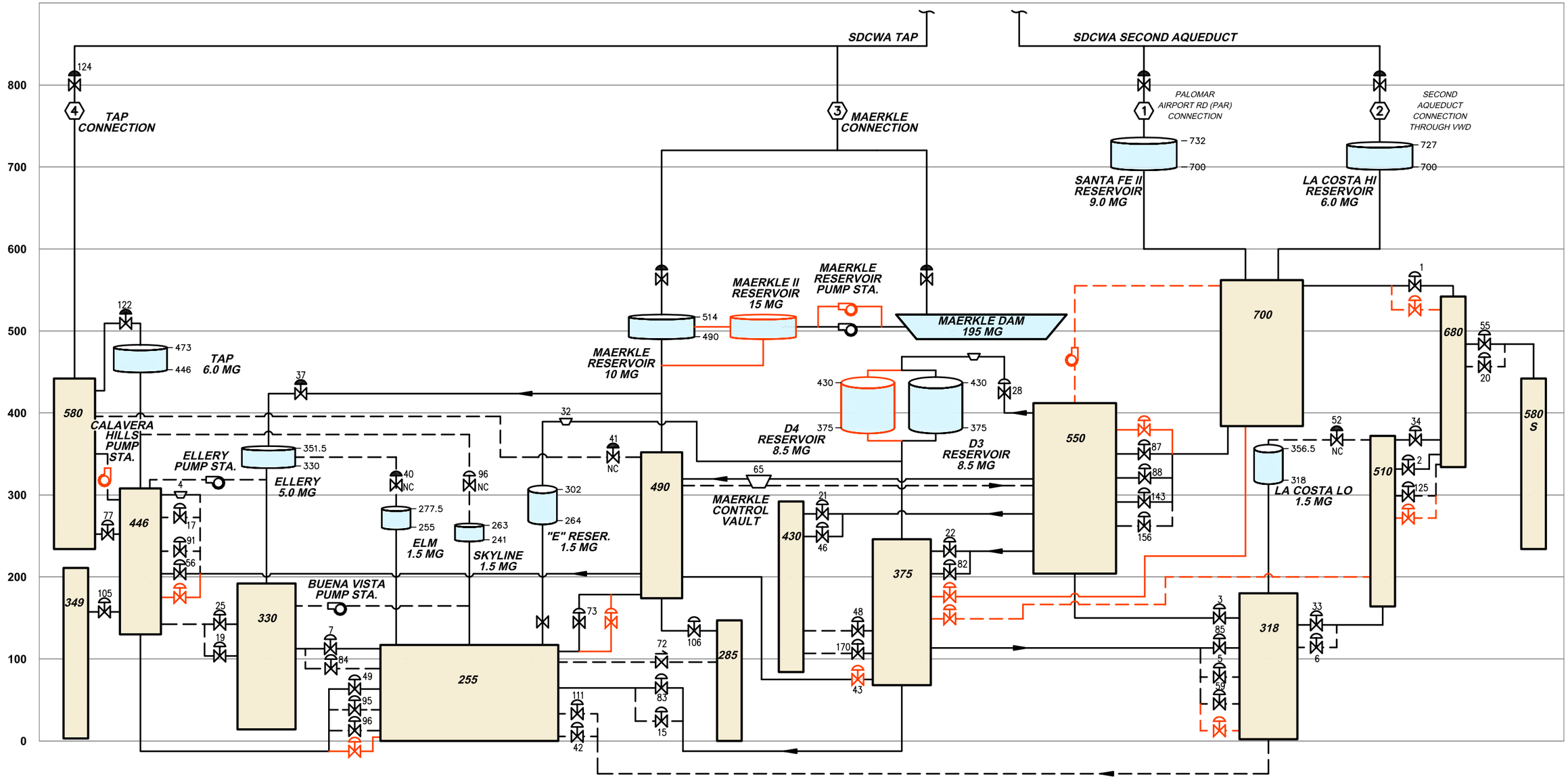
1	9	17
2	10	18
3	11	19
4	12	20
5	13	21
6	14	22
7	15	23
8	16	24
		25
		999

FIGURE 6-1

CITY OF CARLSBAD
LOCAL FACILITY MANAGEMENT ZONES

DUDEK & ASSOCIATES, INC.
Professional Teams for Complex Projects

02-2003 Carlsbad61.mxd



LEGEND

EXISTING FACILITIES:

- SDCWA FLOW CONTROL
- PRV OR PRV/PSV COMBINATION
- PSV
- CHECK VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- NORMALLY CLOSED VALVE
- PUMP STATION
- HWL / BASE ELEV. — STORAGE RESERVOIR
- PRIMARY SUPPLY
- EMERGENCY OR BACK-UP SUPPLY

PROPOSED FACILITIES:

- NEW OR UPGRADED PUMP STATION
- NEW OR UPGRADED PRV/PSV
- HWL / BASE ELEV. — NEW STORAGE RESERVOIR

NOTE:

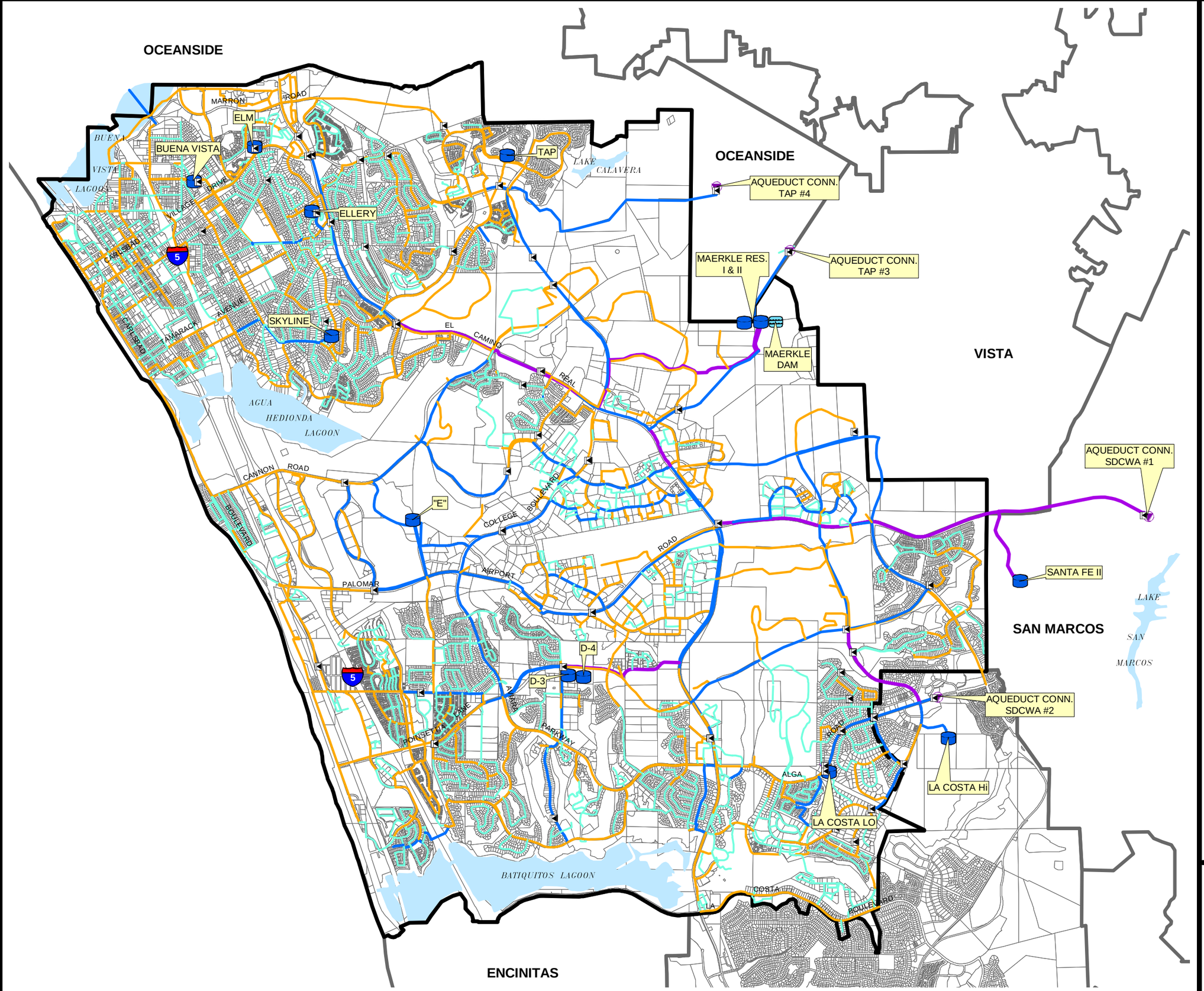
VALVE ID NUMBERS CORRESPOND TO ID NUMBERS IN THE CONTROL VALVE SUMMARY TABLES.

FIGURE 6-4

CARLSBAD MUNICIPAL WATER DISTRICT ULTIMATE SYSTEM HYDRAULIC PROFILE

DUDEK & ASSOCIATES, INC.

P:\Engineering\Carlsbad\3194-Wa_WW-MP-update\02-Water\CADD\3194-Hyd-schem-ult.dwg – Mar 14, 2003, 10:34am



LEGEND

- WATER SERVICE AREA BOUNDARY

ULTIMATE PIPELINES BY DIAMETER

- 4 - 8 INCH
- 10 - 14 INCH
- 16 - 28 INCH
- 30 - 48 INCH

- PRESSURE REDUCING STATIONS
- AQUEDUCT CONNECTION
- RESERVOIR
- DAM

N

1"=4000'

FIGURE 6-5

CARLSBAD MUNICIPAL WATER DISTRICT ULTIMATE WATER DISTRIBUTION SYSTEM MODEL

DUDEK & ASSOCIATES, INC.
Professional Teams for Complex Projects

02-2003 Carlsbadwa65.mxd