

INDEX OF DRAWINGS

| SHEET NO | SHEET TITLE | DRAWING NO |
|----------|--|------------|
| 1 | TITLE SHEET | T-1 |
| 2 | GENERAL DETAILS | G-1 |
| 3 | MANHOLE LOCATION MAP - (1) | C-1 |
| 4 | MANHOLE LOCATION MAP - (2) | C-2 |
| 5 | MANHOLE LOCATION MAP - (3) | C-3 |
| 6 | MANHOLE LOCATION MAP - (4) | C-4 |
| 7 | MANHOLE LOCATION MAP - (5) | C-5 |
| 8 | MANHOLE LOCATION MAP - (6) | C-6 |
| 9 | MANHOLE LOCATION MAP - (7) | C-7 |
| 10 | MANHOLE PLAN AND SECTIONS - (1) | C-8 |
| 11 | MANHOLE PLAN AND SECTIONS - (2) | C-9 |
| 12 | MANHOLE PLAN AND SECTIONS - (3) | C-10 |
| 13 | MANHOLE PLAN AND SECTIONS - (4) | C-11 |
| 14 | MANHOLE PLAN AND SECTIONS - (5) | C-12 |
| 15 | MANHOLE PLAN AND SECTIONS - (6) | C-13 |
| 16 | MANHOLE PLAN AND SECTIONS - (7) | C-14 |
| 17 | MANHOLE PLAN AND SECTIONS - (8) | C-15 |
| 18 | MANHOLE PLAN AND SECTIONS - (9) | C-16 |
| 19 | MANHOLE PLAN AND SECTIONS - (10) | C-17 |
| 20 | MANHOLE PLAN AND SECTIONS - (11) | C-18 |
| 21 | MANHOLE PLAN AND SECTIONS - (12) | C-19 |
| 22 | MANHOLE PLAN AND SECTIONS - (13) | C-20 |
| 23 | PUMP STATION EXIST PLAN AND DEMOLITION | M-1 |
| 24 | PUMP STATION REHAB PLAN AND SECTION | M-2 |
| 25 | PUMP STATION PLAN AND SECTION | M-3 |

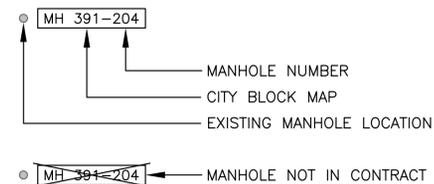
LEGEND

- EXISTING MANHOLE
- EXISTING PROJECT MANHOLE
- — — EXISTING STREET CENTERLINE
- 24S — EXISTING SEWER LINE
- 24SD — EXISTING STORM DRAIN
- ▨ PATCH 1/2" DEEP CORROSION
- ▩ PATCH 3/4" DEEP CORROSION
- ▤ PATCH 1" DEEP CORROSION

ABBREVIATIONS

- E EXISTING ELEVATION
- EL EXISTING INVERT
- MH MANHOLE
- REHAB REHABILITATION
- SD STORM DRAIN
- SS SANITARY SEWER
- SST STAINLESS STEEL
- VCP VITRIFIED CLAY PIPE

PROJECT MANHOLE LABELING SYSTEM

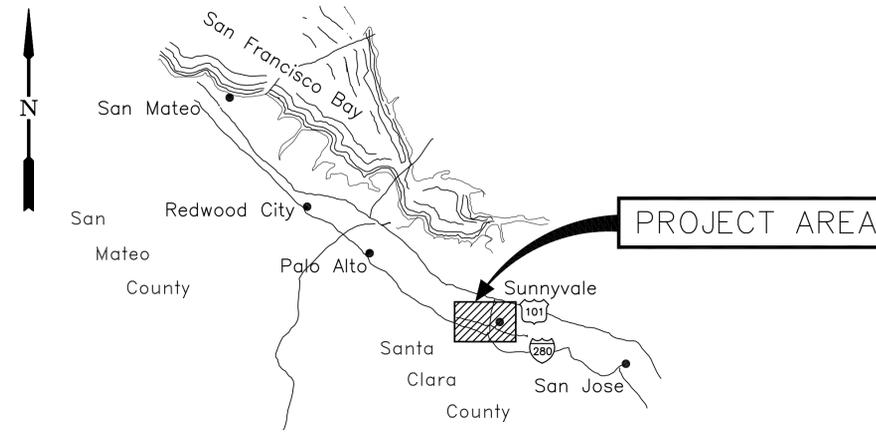


PROJECT DESCRIPTION

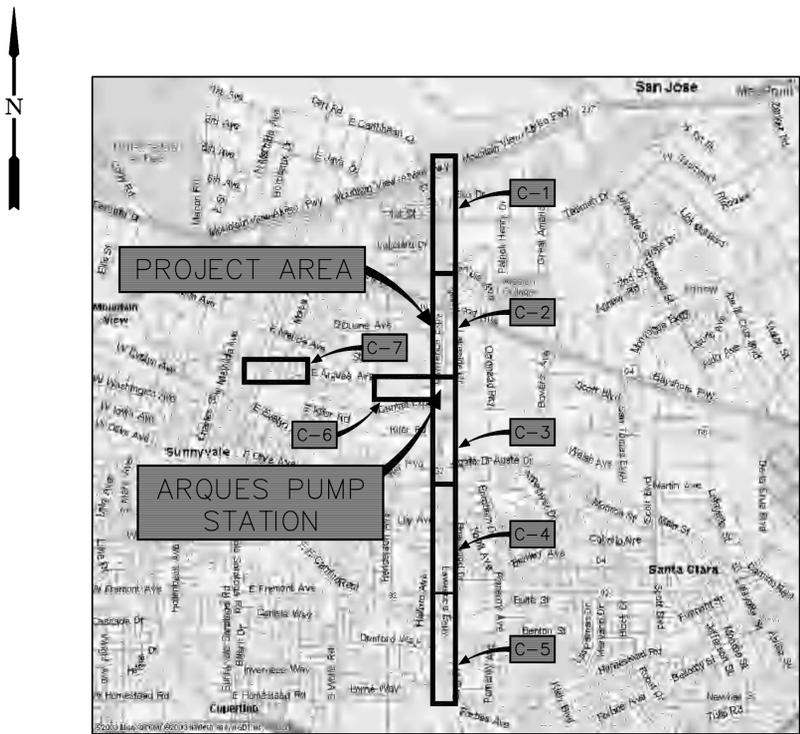
THE WORK INVOLVES THE REHABILITATION OF THE INTERIOR SURFACE OF 73 EXISTING SANITARY SEWER MANHOLES IN THE CITY OF SUNNYVALE, AND THE MECHANICAL AND INTERIOR SURFACE REHABILITATION OF AN EXISTING SEWAGE PUMP (LIFT) STATION. 53 MANHOLES ARE LOCATED ON LAWRENCE EXPRESSWAY AND 20 MANHOLES ARE LOCATED ON ARQUES AVENUE. THE REHABILITATION WILL INVOLVE HIGH PRESSURE CLEANING, REMOVAL AND DISPOSAL OF DEBRIS, PATCHING OF CORRODED CONCRETE SURFACES, REMOVAL OF EXISTING LADDER RUNGS, AND THE APPLICATION OF CEMENTITIOUS LINING MATERIAL ON ALL MANHOLE SURFACES. SEWAGE FLOW SHALL BE MAINTAINED AT ALL TIMES. TRAFFIC CONTROL PLANS, PERMITTING, AND EXTENSIVE TRAFFIC CONTROL IMPLEMENTATION IS REQUIRED AND THE WORK WILL BE RESTRICTED BETWEEN 9 AM TO 3 PM AND 9 PM TO 5 AM

GENERAL NOTES:

- APPROVED PROTECTIVE MEASURES SHALL BE USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING SUITABLE STAGING AREAS AS REQUIRED TO SUPPORT ALL CONTRACTOR OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF WASTEWATER FLOWS AT ALL TIMES DURING CONSTRUCTION.



VICINITY MAP
NO SCALE



AREA & KEY MAP
NO SCALE

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER
PROJECT NO. UY-02/05-03

CITY OF SUNNYVALE
CALIFORNIA

APPROVED:

BARBARA KEEGAN, P.E.
ASSISTANT DIRECTOR
OF PUBLIC WORKS

PLANS APPROVAL
DATE

APPROVED:

JAMES CRAIG
FIELD SERVICES SUPERINTENDENT

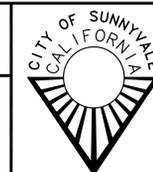
PLANS APPROVAL
DATE



| | |
|----------------------|----------|
| Scale | NO SCALE |
| Designed By: | TJB |
| Drawn By: | KSC |
| Checked By: | BOG |
| Consultant's Job No. | 610-01 |

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

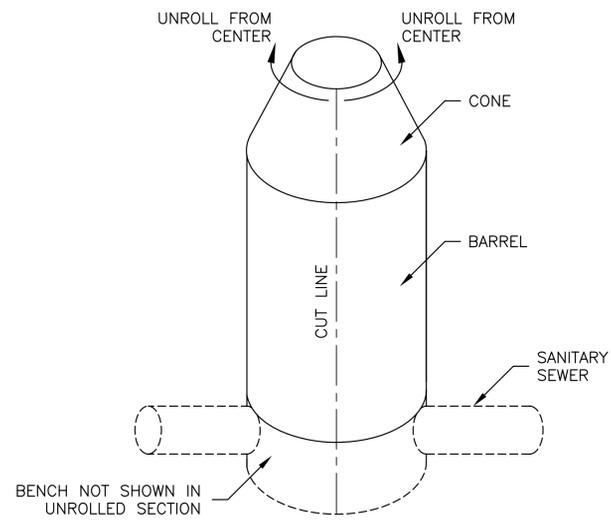
TITLE SHEET



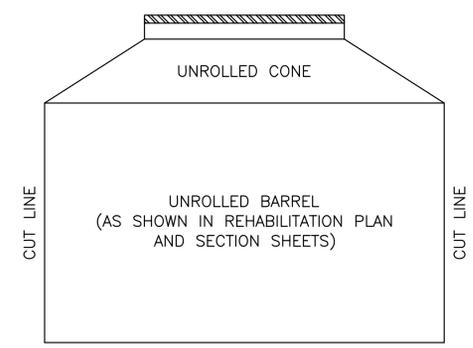
City of Sunnyvale
Santa Clara County
California
Department of Public Works
456 West Olive Avenue
P.O. Box 3707
Sunnyvale 94088-3707

City of Sunnyvale
Project No.
UY-02/05-03
Drawing No.
T-1
Sheet 1 of 25

| Rev. | Description | Date |
|------|-----------------|--------|
| G | RECORD DRAWINGS | 3/5/07 |

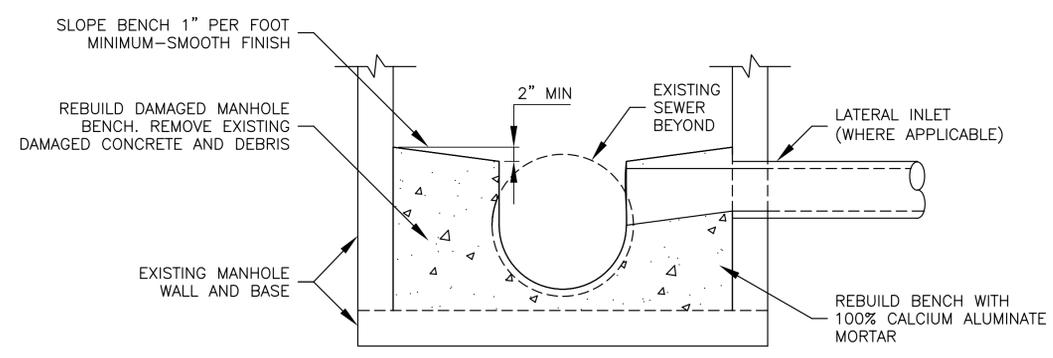


ISOMETRIC VIEW



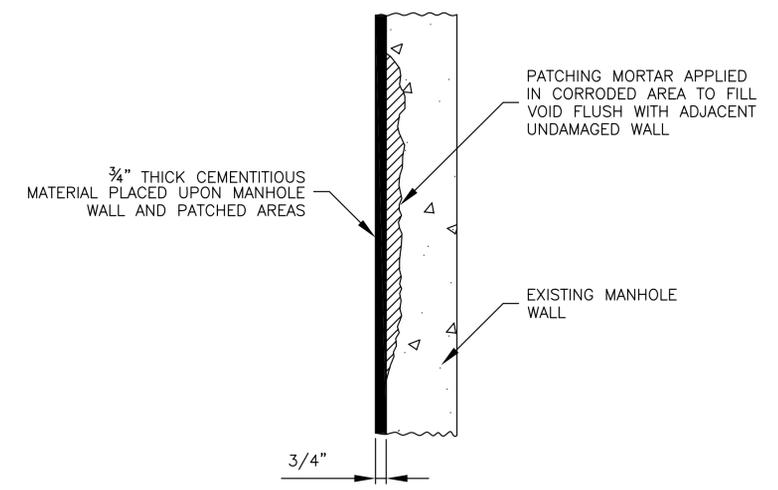
UNROLLED SECTION OF MANHOLE SURFACE
UNROLLED MANHOLE ILLUSTRATION

DETAIL 1
NO SCALE VAR



MANHOLE BENCH REBUILDING

DETAIL 2
NO SCALE VAR



MANHOLE WALL PATCHING AND LINING

DETAIL 3
NO SCALE VAR

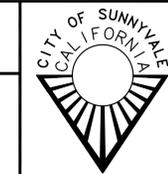
| | | |
|------|-----------------|--------|
| Rev. | Description | Date |
| G | RECORD DRAWINGS | 3/5/07 |



| | |
|----------------------|----------|
| Scale | NO SCALE |
| Designed By: | TJB |
| Drawn By: | JMP |
| Checked By: | BOG |
| Consultant's Job No. | 610-01 |

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

GENERAL DETAILS



City of Sunnyvale
Santa Clara County
California
Department of Public Works
456 West Olive Avenue
P.O. Box 3707
Sunnyvale 94088-3707

City of Sunnyvale
Project No.
UY-02/05-03
Drawing No.
G-1
Sheet 2 of 25