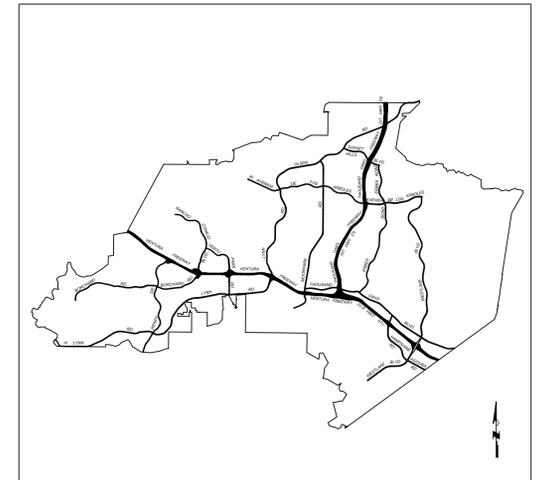


LOCATION MAP  
SCALE:



VICINITY MAP  
SCALE:

# CITY OF THOUSAND OAKS

## PUBLIC WORKS DEPARTMENT

### WASTEWATER PLAN

ENTITLEMENT/TRACT NO.  
ADDRESS

**PUBLIC UTILITY AUTHORIZATION FOR OPERATION**

WATER: (COMPANY NAME)  
(ADDRESS)  
(TELEPHONE NO.)  
SEWAGE DISPOSAL: (COMPANY NAME)  
(ADDRESS)  
(TELEPHONE NO.)  
TELEPHONE: (COMPANY NAME)  
(ADDRESS)  
(TELEPHONE NO.)  
ELECTRIC: (COMPANY NAME)  
(ADDRESS)  
(TELEPHONE NO.)  
GAS: (COMPANY NAME)  
(ADDRESS)  
(TELEPHONE NO.)  
CABLE TV: (COMPANY NAME)  
(ADDRESS)  
(TELEPHONE)

DEVELOPER: \_\_\_\_\_  
NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
REPRESENTATIVE: \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_

DEVELOPER'S ENGINEER: \_\_\_\_\_  
NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
REPRESENTATIVE: \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_

SOILS ENGINEER: \_\_\_\_\_  
NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
REPRESENTATIVE: \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_  
DATES OF REPORTS: \_\_\_\_\_

BENCHMARK: \_\_\_\_\_  
\_\_\_\_\_

INDEX OF SHEETS		
NO.	DESCRIPTION	CITY OF T.O. DWG. NO.

**CERTIFICATION**

I HEREBY CERTIFY THAT THE WASTEWATER SYSTEM AS SHOWN ON DRAWING NUMBER \_\_\_\_\_ SHEETS \_\_\_\_\_ THROUGH \_\_\_\_\_ HAS BEEN DESIGNED TO ADEQUATELY SERVICE EACH AND EVERY LOT OR FACILITY SHOWN ON SAID DRAWING.

REGISTERED CIVIL ENGINEER RCE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

**CERTIFICATE OF "RECORD DRAWINGS"**

I \_\_\_\_\_ HEREBY CERTIFY, BASED ON MY FIELD OBSERVATION OR INFORMATION PROVIDED BY THE OWNER AND GENERAL CONTRACTORS THAT THE WORK ON SHEET NO'S \_\_\_\_\_ THROUGH \_\_\_\_\_ MARKED AS "RECORD DRAWING" HAS BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS, SPECIFICATIONS, REVISIONS, CHANGE ORDERS, AND FIELD CHANGES.

REGISTERED CIVIL ENGINEER RCE NUMBER \_\_\_\_\_ EXP. DATE \_\_\_\_\_  
(SIGNATURE)  
DATE \_\_\_\_\_

ACCEPTING BONDS AND AGREEMENTS VIA:

RESOLUTION NUMBER \_\_\_\_\_ DATED \_\_\_\_\_

**NOTE:** NOTIFY PUBLIC WORKS INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO START OF CONSTRUCTION.

**NOTE:** CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) 1(800) 422-4133 A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.

**CITY OF THOUSAND OAKS**  
PUBLIC WORKS DEPARTMENT

**WASTEWATER COVER SHEET**

ENTITLEMENT/TRACT NO.  
ADDRESS

CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_

DIAL TOLL FREE  
1-800-422-4133  
AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE	DESIGNED BY:	DATE	DRAWN BY:	DATE	CHECKED BY:	DATE	ENGINEER'S SEAL	REGISTERED ENGINEER	RCE NUMBER	DEVELOPMENT ENGINEER	DATE

**WASTEWATER GENERAL NOTES**

- CONTRACTOR SHALL NOTIFY THE CITY OF THOUSAND OAKS (805)449-2400 FIVE (5) DAYS PRIOR TO COMMENCING CONSTRUCTION.
- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF THOUSAND OAKS PUBLIC WORKS DEPARTMENT WASTEWATER DESIGN AND CONSTRUCTION STANDARDS ADOPTED MAY 8, 1979 AS AMENDED.
- PIPES SHALL BE P.V.C. AS SPECIFIED IN THE STANDARDS, SECTION 3.4A.
- WARNING: CONNECTION TO ANY EXISTING WASTEWATER MAIN SHALL BE DONE ONLY IN THE PRESENCE OF THE CITY OF THOUSAND OAKS PUBLIC WORKS DEPARTMENT INSPECTOR.
- UTILITY LOCATIONS AND DEPTHS SHOWN HEREON HAVE BEEN PLOTTED IN ACCORDANCE WITH DATA FURNISHED BY THE RESPECTIVE UTILITY COMPANIES. NEITHER THE CITY NOR THE ENGINEER ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION RECEIVED FROM EACH COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PUBLIC AND PRIVATE PROPERTY INSOFAR AS IT MAY BE AFFECTED BY THE CONTRACTOR'S OPERATION. ALL COSTS FOR PROTECTING, REMOVING AND RESTORING EXISTING IMPROVEMENTS SHALL BE ABSORBED BY THE CONTRACTOR.
- SEPARATION BETWEEN WASTEWATER AND WATER LINES SHALL BE IN ACCORDANCE WITH PLATE NO. 30 OF THE CITY OF THOUSAND OAKS PUBLIC WORKS DEPARTMENT WASTEWATER DESIGN AND CONSTRUCTION STANDARDS AND THE LATEST REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH.
- ALL TRENCH BACKFILL AND COMPACTION IN PUBLIC RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY OF THOUSAND OAKS PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL MAINTAIN A RECORD OF THE LOCATION OF ALL WASTEWATER LATERALS, TEES AND STUBOUTS. THIS RECORD SHALL BE DELIVERED TO THE PUBLIC WORKS DEPARTMENT AT THE END OF THE PROJECT. THE PROJECT WILL NOT BE ACCEPTED BY THE CITY COUNCIL UNTIL THIS RECORD IS PROVIDED. PLACE 2"x4" REDWOOD MARKER STAKE VERTICALLY FROM END OF LATERAL TO 12" MINIMUM ABOVE FINISHED GROUND.
- BACKWATER DEVICES SHALL BE INSTALLED WHERE SHOWN.
- THE CONTRACTOR SHALL MARK THE LOCATION OF ALL WASTEWATER LATERALS WITH THE LETTER "S" AT LEAST 2" HIGH CAST INTO THE CURB (WHERE A CURB EXISTS OR IS PROPOSED TO BE CONSTRUCTED).
- ALL LATERALS TO NEW PIPELINES ARE TO BE TIED INTO MAIN LINE THROUGH THE USE OF FITTINGS. CUT-IN SADDLES WILL NOT BE PERMITTED.
- CONTRACTOR SHALL SUBMIT THE RESULTS OF SOILS COMPACTION TEST (TAKEN AT 100 FEET MAXIMUM INTERVALS, 2 FEET MAXIMUM LIFTS) TO THE INSPECTOR.
- THE HOUSE LATERALS SHALL BE EXTENDED BEYOND THE STREET RIGHT-OF-WAY TO THE FAR EDGE OF THE PUBLIC SERVICE EASEMENT (P.S.E.) AND CAPPED. LATERALS MAY NOT BE EXTENDED FURTHER UNTIL THE MAIN LINE AND LATERALS HAVE BEEN TESTED AND FOUND ACCEPTABLE TO THE INSPECTOR, AND A WRITTEN RELEASE IS OBTAINED FROM THE INSPECTOR.
- THE UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED AT 1-800-422-4133 AT LEAST TWO (2) WORKING DAYS BEFORE PERFORMING ANY EXCAVATION WORK TO ALLOW UTILITY OWNERS TO MARK THE LOCATION OF THEIR RESPECTIVE UNDERGROUND FACILITIES. USA TICKET NUMBERS SHALL BE KEPT CURRENT IN ACCORDANCE WITH A.B. 73.
- PRIOR TO THE START OF CONSTRUCTION, OWNER/DEVELOPER SHALL PROVIDE THE PUBLIC WORKS DEPARTMENT A CURRENT COPY OF THE APPROVED INSURANCE CERTIFICATE.
- MANHOLE STEPS WILL NOT BE ALLOWED IN MANHOLES
- ALL TESTS ON MAINS AND LATERALS SHALL BE PERFORMED ONLY AFTER ALL OTHER UNDERGROUND UTILITIES WHICH COULD POTENTIALLY INTERFERE OR AFFECT SAID MAINS AND/OR LATERALS HAVE BEEN INSTALLED.
- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND THE APPLICABLE CONSTRUCTION STANDARDS, UNLESS A CHANGE ORDER IS APPROVED BY THE PUBLIC WORKS DEPARTMENT ENGINEER.
- THE CITY DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF LOCATIONS AND GRADES FOR MAIN LINES, SERVICE LINES AND LATERALS AS SHOWN ON THESE PLANS.
- IN THE EVENT A MAIN MUST BE UNCOVERED OR EXCAVATED AFTER IT HAS BEEN BACKFILLED AND COVERED WITH ANY PERMANENT ASPHALTIC CONCRETE PAVEMENT (REGARDLESS OF WHETHER LOCATED WITHIN STREET RIGHTS-OF-WAY OR PRIVATE PROPERTY), THE TRENCH SHALL BE BACKFILLED TO A HEIGHT ONE INCH BELOW THE BOTTOM OF THE EXISTING ASPHALT WITH ONE SACK SLURRY CEMENT. WHERE A MAIN IS LOCATED IN A NON-PAVED AREA AND IT MUST BE UNCOVERED OR EXCAVATED AFTER IT HAS BEEN BACKFILLED AND COMPACTED, THE TRENCH MAY BE BACKFILLED WITH ONE SACK CEMENT SLURRY OR NATIVE MATERIAL REMOVED FROM THE TRENCH. THE INSPECTOR MAY, AT HIS OR HER DISCRETION, REQUIRE SOILS TESTS BE PERFORMED BY A CERTIFIED SOILS ENGINEER TO ASSURE THAT THE NATIVE MATERIALS REPLACED IN THE TRENCH HAVE BEEN COMPACTED TO THE REQUIRED DENSITIES.
- PLATE NO. 21 IS MODIFIED TO PROVIDE THE FOLLOWING:
  - SECURING COVER TO FRAME  
CASE I AND CASE II - INSTALL TWO 1/2" X 1-1/4" X 13 TPI STAINLESS STEEL ALLEN HEAD BOLTS ON OPPOSITE SIDES OF THE FRAME THROUGH THE VERTICAL SIDE OF THE FRAME PENETRATING INTO HE COVER APPROXIMATELY 1/4-INCH. PLACE TWO SCORE MARKS ON BOTH FRAME AND COVER OVER BOLT TO ASSIST IN PROPER ORIENTATION OF COVER.
  - SECURING FRAME TO CONE  
CENTER FRAME ON CONE. DRILL THREE 3/4" DIAMETER HOLES AT SLIGHT INWARD ANGLE (120 DEGREES APART) TO RECEIVE 4" LONG LEAD SHIELDS. SECURELY FASTEN FRAME TO CONE WITH THREE 1/2" DIAMETER LAG BOLTS AND STEEL FLAT STRAP (APPROXIMATELY 1/4" X 2" X 3" WITH 5/8" CLEARANCE HOLE).

- PLATE NO. 17 THROUGH 20 ARE MODIFIED TO PROVIDE THAT ALL JOINTS BETWEEN THE BARREL SECTIONS/RISER SHAFTS AND/OR CONE SECTIONS SHALL BE WRAPPED AROUND THE EXTERIOR CIRCUMFERENCE OF THE SHAFTS WITH "RUB-R-NECK" (AS MANUFACTURED BY THE HENRY COMPANY SEALANTS DIVISION, 1277 BOYLES STREET, HOUSTON, TEXAS 77020) OR APPROVED EQUAL. ALL MANHOLES SHALL BE NEGATIVE PRESSURE TESTED AS SPECIFIED IN ASTM DESIGNATION C 1244-93. FOR MANHOLE FRAME AND COVERS; THE ALHAMBRA A-1254 FRAME AND COVER SPECIFIED ON STANDARD PLATE 17 SHALL HAVE A COVER DIAMETER OF 26 & 1/4 INCHES, ALONG WITH LETTERING CONFORMING TO SECTION 3.10 OF THE CITY'S "WASTEWATER DESIGN AND CONSTRUCTION STANDARDS".
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE DIVISION OF INDUSTRIAL RELATIONS (CAL-OSHA) SAFETY STANDARDS. IF REQUESTED BY THE INSPECTOR, THE CONTRACTOR SHALL PROVIDE PROOF THAT HE HAS OBTAINED A PERMIT FROM SAID DIVISION.
- ALL WORK BY THE CONTRACTOR SHALL BE PERFORMED DURING NORMAL CITY WORKING HOURS AND UNDER THE INSPECTION OF THE PUBLIC WORKS DEPARTMENT INSPECTOR. WHERE OVERTIME INSPECTION IS NEEDED, AS DETERMINED BY THE INSPECTOR, THE CONTRACTOR WILL BE BILLED FOR SAID INSPECTION SERVICES, AS PROVIDED IN THE MOST RECENTLY ADOPTED ORDINANCE WHICH ESTABLISHES THE FEES FOR SUCH SERVICES.
- SOILS ENGINEER TO TEST TRENCH AND SUBMIT COMPACTION REPORT TO PUBLIC WORKS DEPARTMENT WHEN PROJECT DIVERTS NATURAL WATER COURSE OR IS GREATER THAN 50 C.Y. GRADING PER U.B.C. CHAPTER 33.
- EACH MANHOLE SHALL BE TESTED BY THE CONTRACTOR AFTER ASSEMBLY AND PRIOR TO BACKFILLING. A VACUUM OF 10-INCHES OF MERCURY SHALL BE DRAWN AND THE TIME MEASURED FOR THE VACUUM TO DROP TO 9-INCHES. THE MANHOLE SHALL BE CONSIDERED ACCEPTABLE IF THE TIME TO DROP TO 9-INCHES IS GREATER THAN 60 SECONDS FOR 48-INCH DIAMETER AND 75 SECONDS FOR 60-INCH DIAMETER MANHOLES. SUCH TESTS MUST BE PERFORMED IN THE PRESENCE OF THE DEPARTMENT'S INSPECTOR. IN THE EVENT OF A TEST FAILURE, REPAIRS SHALL BE MADE WITH A NON-SHRINK GROUT WHILE THE VACUUM IS STILL BEING DRAWN. RETESTING SHALL PROCEED UNTIL A SATISFACTORY PASSING TEST IS OBTAINED.
- CONTRACTOR SHALL SUBMIT RESULTS OF SOILS COMPACTION TEST (TAKEN AT 100 FEET MAXIMUM INTERVALS, 2 FEET MINIMUM) TO THE INSPECTOR.

**CONDITION OF TELEVISION INSPECTION THOUSAND OAKS WASTEWATER SYSTEM**

THE PUBLIC WORKS DEPARTMENT WILL BE UTILIZING ITS TELEVISION INSPECTION EQUIPMENT TO CHECK THE ADEQUACY OF THE INSTALLED SEWER SYSTEM. ABSENT SPECIAL WRITTEN AUTHORIZATION TO THE CONTRARY, THE INSPECTION WILL BE DONE AFTER PAVEMENT HAS BEEN PLACED. THE CONTRACTOR IS ENCOURAGED TO CONSIDER INSTALLING A TWO COURSE PAVEMENT, SUCH THAT THE INSPECTION CAN BE DONE AFTER THE FIRST COURSE IS IN PLACE. THIS INITIAL INSPECTION WILL BE PERFORMED AT NO COST TO THE OWNER/DEVELOPER. ALL OTHER VIDEO INSPECTIONS WHETHER REQUESTED BY THE CONTRACTOR OR REINSPECTION NECESSITATED BY DEFECTIVE WORK WILL BE AT THE OWNER/DEVELOPER'S EXPENSE.

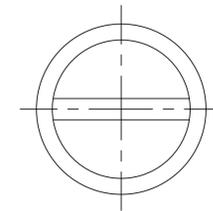
OWNER/DEVELOPER \_\_\_\_\_ DATE \_\_\_\_\_

**MATERIAL LIST**

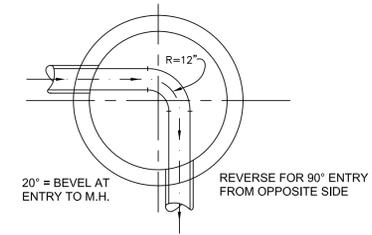
(TO BE COMPLETED AT THE TIME OF PREPARATION OF RECORD DRAWINGS)  
 MANHOLE COVER MANUFACTURER \_\_\_\_\_  
 PIPE TYPE AND CLASS \_\_\_\_\_

**LEGEND**

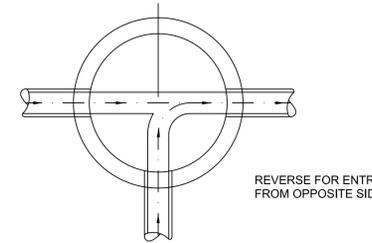
-  EXISTING MANHOLE
-  PROPOSED MANHOLE
-  EXISTING WASTEWATER LINE
-  PROPOSED WASTEWATER LINE
-  PROPOSED 4" HOUSE LATERAL
-  BACKWATER OVERFLOW DEVICE REQUIRED



END OF LINE M.H.



90° ENTRY



REVERSE FOR ENTRY FROM OPPOSITE SIDE

**TYPICAL MANHOLE BASE DETAILS**  
NOT TO SCALE

**STANDARD PLATES**

PLATE NO.	PLATE TITLE
3	TRENCH CROSS-SECTION TERMINOLOGY AND STANDARD SIZES
6	PIPE TRENCH FOR PVC PIPE
11	LOAD FACTORS PVC AND ABS COMPOSITE PIPE
12	SPECIAL SUPPORT FOR WASTEWATER LINE OVER, UNDER OBSTRUCTION
15	REDWOOD CHECK DAM FOR STEEP SLOPES
17	STANDARD 4' DIAMETER MANHOLE
23	SERVICE LATERAL
28	BACKWATER OVERFLOW DEVICE
30	SEPARATION REQUIREMENTS FOR WATER AND WASTEWATER LINES
8-14	TRENCH REPAIR WITHIN A PAVED RIGHT-OF-WAY (ROAD STANDARDS)
1-8	STEEL PLATE REQUIREMENTS (ROAD STANDARDS)



DIAL TOLL FREE  
1-800-422-4133  
AT LEAST TWO DAYS  
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REV.	SYMBOL	DESCRIPTION OF CHANGE	R.C.E.	DATE	P.D.E.	DATE

DESIGNED BY: \_\_\_\_\_  
DATE \_\_\_\_\_

DRAWN BY: \_\_\_\_\_  
DATE \_\_\_\_\_

CHECKED BY: \_\_\_\_\_  
DATE \_\_\_\_\_

ENGINEER'S SEAL

PREPARED BY: \_\_\_\_\_  
REGISTERED ENGINEER \_\_\_\_\_  
RCE NUMBER \_\_\_\_\_

REVIEWED FOR PERMIT ISSUANCE BY: \_\_\_\_\_  
CITY OF THOUSAND OAKS \_\_\_\_\_  
DEVELOPMENT ENGINEER \_\_\_\_\_  
DATE \_\_\_\_\_

**CITY OF THOUSAND OAKS  
PUBLIC WORKS DEPARTMENT**

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**WASTEWATER NOTES AND DETAILS**

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ENTITLEMENT/TRACT NO. \_\_\_\_\_  
ADDRESS \_\_\_\_\_

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CITY OF THOUSAND OAKS DWG. NO. \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_