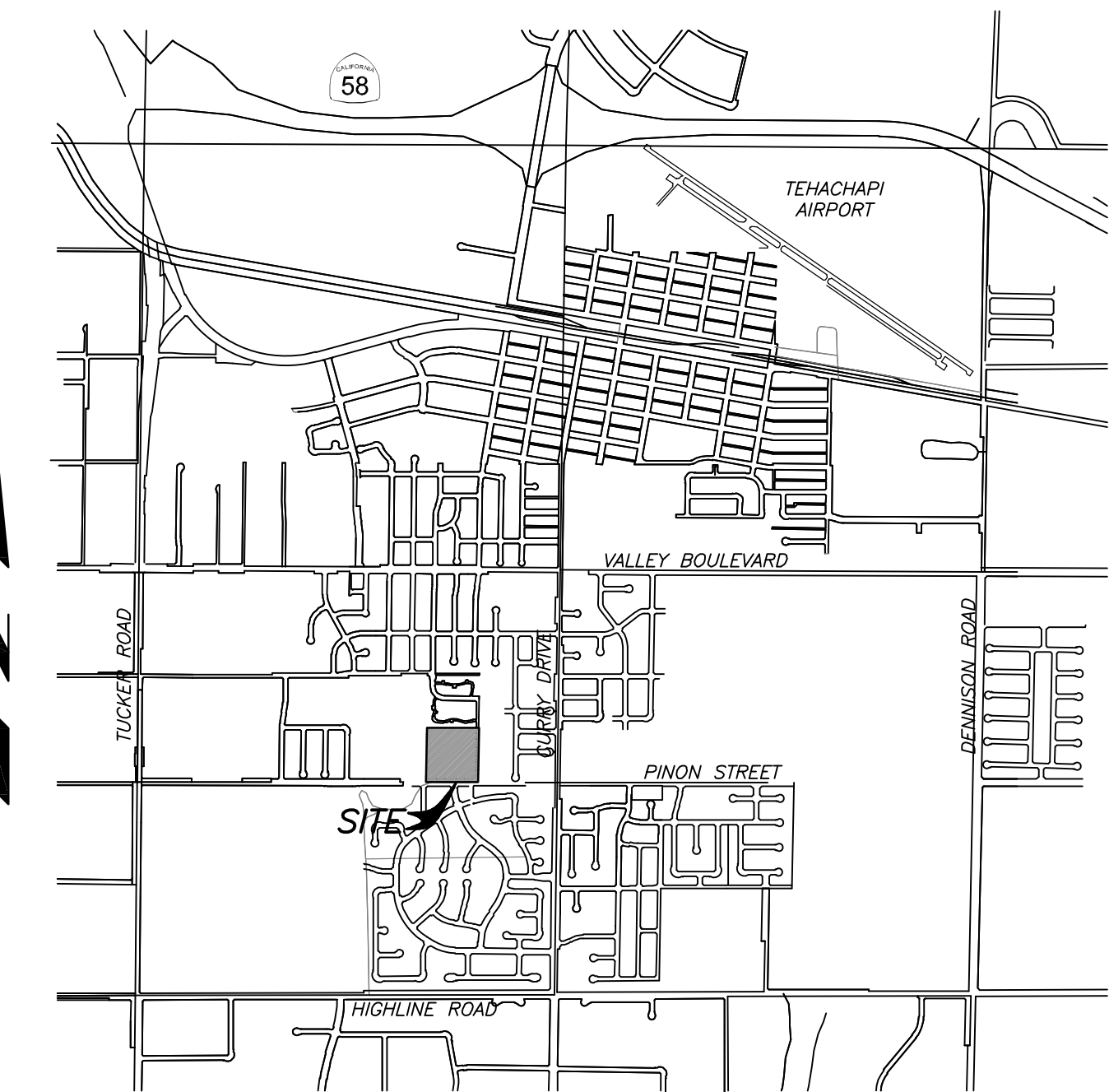


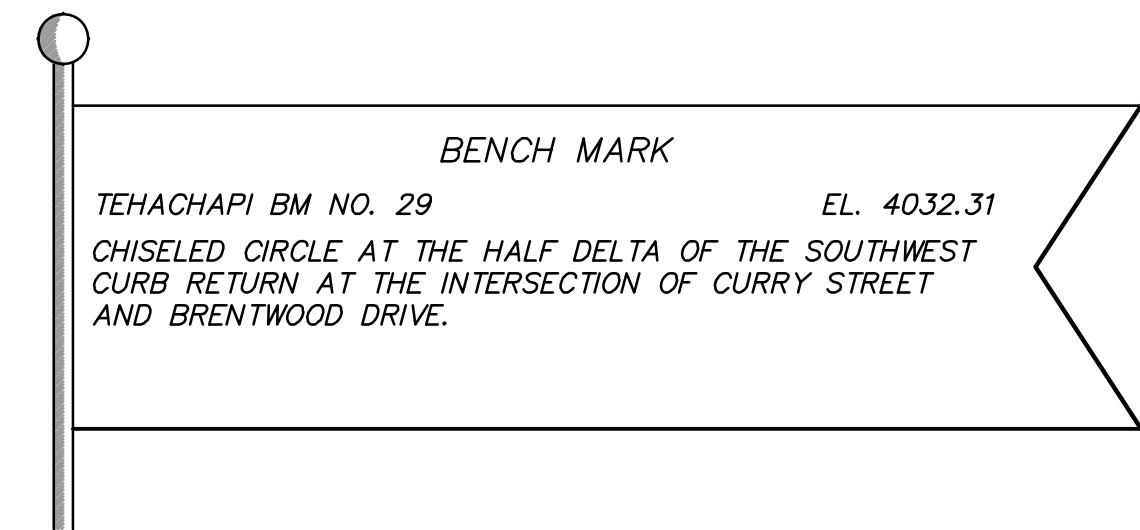
# CITY OF TEHACHAPI

## UTILITY PLAN

### TRACT NO. 6507



**VICINITY MAP**  
1" = 2000'

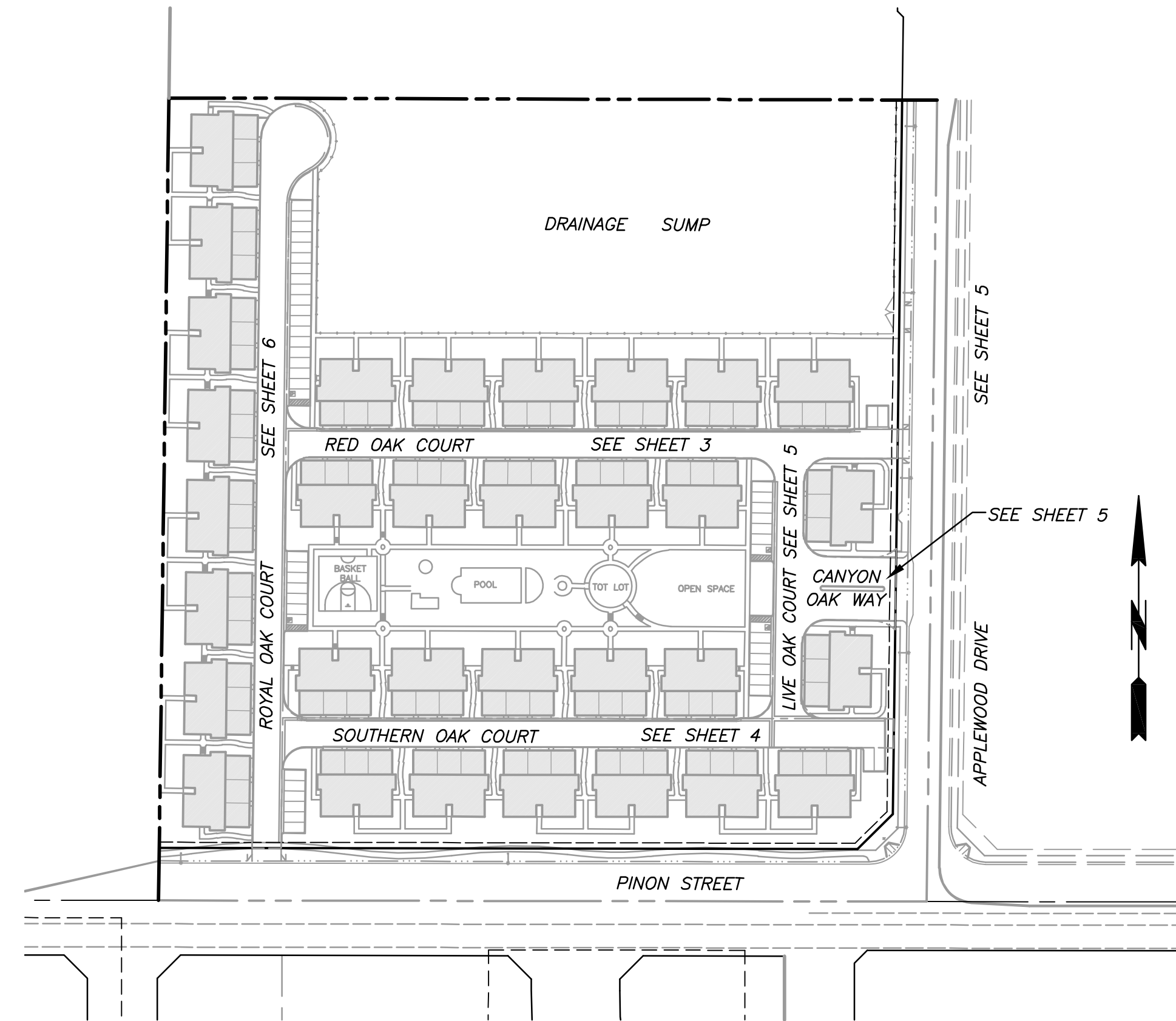


**PRIVATE ENGINEER'S NOTICE TO CONTRACTOR**

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

\_\_\_\_\_ 2/18/22  
WILLIAM M. WHITE, P.E. R.C.E. 62111 DATE



**KEY MAP**  
1" = 200'

**PRIVATE ENGINEER'S STATEMENT**

THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, COMPLY WITH CITY OF TEHACHAPI ORDINANCES AND STANDARDS AND INCLUDE ALL IMPROVEMENT REQUIREMENTS OF THE ADVISORY AGENCY OR OTHER REVIEW BOARD. ANY ERRORS, OMISSIONS OR DEVIATIONS FROM THOSE ORDINANCES OR STANDARDS ENCOUNTERED DURING CONSTRUCTION SHALL BE CORRECTED AND SUCH CORRECTIONS REFLECTED ON THE PLANS AND SUBMITTED TO THE CITY ENGINEER.

\_\_\_\_\_ 2/18/22  
WILLIAM M. WHITE, P.E. R.C.E. 62111 DATE

**STATIONING**

ALL STATION CALLOUTS ARE TO THE STREET CENTER LINE UNLESS OTHERWISE NOTED ON PLANS.

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6 OF 6	ROYAL OAK COURT

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**FORMA ENGINEERING INC.**  
400 SAN FERNANDO MISSION BLVD SUITE 200 SAN FERNANDO CA 91340  
Phone: 818-832-1710 • Fax: 818-832-1740  
PREPARED UNDER THE SUPERVISION OF:  
 \_\_\_\_\_ 2/18/22  
WILLIAM M. WHITE, P.E. R.C.E. 62111 DATE



REVISION BLOCK			
REV#	DATE	BY	REVISION DESCRIPTION
1	2/18/22	W.W.	UPDATED CONSTRUCTION NOTES

APPROVED BY  
CITY ENGINEER:  
JOHN H. SCHLOSSER, RCE #65403 DATE

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**CITY OF TEHACHAPI**  
**UTILITY PLAN**  
**TRACT NO. 6507**  
**COVER SHEET**

SHEET  
1 OF  
6 SHEETS

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Last Opened: Nov 18, 2022 9:50am by Justap

**GENERAL WATER NOTES**

- GENERAL: CONTRACTOR WILL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION AND TESTING OF WATER IMPROVEMENTS AS SHOWN ON THE APPROVED PLANS AND SPECIFICATIONS.
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH CITY OF TEHACHAPI STANDARDS, AINNA STANDARDS, AND STATE STANDARD SPECIFICATIONS. NOTHING IN THE PLANS OR SPECIFICATIONS ARE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE STANDARDS. WHERE WORK OF A HIGHER DEGREE IS INDICATED ON THE PLANS OR SPECIFICATIONS, THAT REQUIREMENT SHALL GOVERN.
3. ALL WATER MAINS SHALL BE INSTALLED SO THAT THE TOP OF THE PIPE IS NOT LESS THAN 36" BELOW FINISHED PAVING OF THE STREET FOR WATER MAINS LESS THAN 12 INCHES IN DIAMETER UNLESS A GREATER MINIMUM DEPTH IS SPECIFIED IN THE EXCAVATION AND/OR ENCROACHMENT PERMIT. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED WITH A MINIMUM OF 30-INCH COVER WITHIN THE ROADWAY.
- ALL PVC PIPE SHALL BE INSTALLED IN CONFORMANCE WITH AWWA SPECIFICATIONS C-605 AND COUPLINGS SHALL NOT REST ON SOLID OR ORIGINAL TRENCH BOTTOM.
- CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL CHANGES IN DIRECTION (AS AT TEES AND ELBOWS), CHANGES IN SIZE (AS AT REDUCERS), DEAD ENDS, FIRE HYDRANTS AND OTHER VALVES WHERE THRUSTS MAY NORMALLY BE DEVELOPED.
- THE PIPE SHALL BE INSTALLED SO THAT IT HAS A UNIFORM BEDDING THROUGHOUT ITS ENTIRE LENGTH.
- COMPACTION REQUIREMENTS: DEDICATED STREETS: ALL PIPELINE TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CITY OF TEHACHAPI.
- NO VALVE COVERS OR METER BOXES ARE TO LIE IN SIDEWALKS, GROSS GUTTER, CURB OR DRIVEWAYS.
- THE KERN COUNTY FIRE DEPARTMENT REQUIREMENTS SHALL BE MET.
- TESTING
  - IMMEDIATELY AFTER THE WATER LINE IS COMPLETED, THE CONTRACTOR SHALL TEST THE WATER LINE FOR LEAKAGE IN ACCORDANCE WITH CITY SPECIFICATIONS IN THE PRESENCE OF THE CITY INSPECTOR. ANY PIPE OR FITTINGS THAT FAIL TO PASS THE MAXIMUM ALLOWABLE LEAKAGE REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH NEW MATERIALS AT THE EXPENSE OF THE CONTRACTOR.
  - THE LINES SHALL BE TESTED TO A PRESSURE OF 150 PSI FOR FOUR (4) HOURS. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR THE TEST.
- DISINFECTION
  - DISINFECTION OF THE WATER LINE SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C-651. THE WORK SHALL BE PERFORMED AFTER ALL PRESSURE AND LEAKAGE TESTS ARE COMPLETED.
  - THE DISINFECTING AGENT SHALL BE LIQUID CHLORINE FED THROUGH A MIXING EQUIPMENT WHICH GASIFIES AND DISSOLVES THE CHLORINE IN WATER IN STRONG SOLUTION AND DELIVERS THE SOLUTION IMMEDIATELY INTO THE PIPE LINE BEING TREATED.
  - THE WORK SHALL BE SUPERVISED BY A COMPETENT PERSON AS DEFINED BY CITY STANDARDS AS EXPERIENCED IN THE PROCESS, WHO SHALL USE AN APPROVED CHLORINE TEST COMPARATOR WITH STANDARDIZED ORTHOTOLIDENE SOLUTION FOR MAKING THE TESTS.
  - THE CONTRACTOR SHALL FURNISH ALL NECESSARY WATER, CHEMICALS, EQUIPMENT AND PERSONNEL.
  - AFTER COMPLETION OF THE APPLICATION, THE PIPELINES SHALL REMAIN CLOSED FOR 24 HOURS. SAMPLES SHALL THEN BE TAKEN AT THE SAME POINTS AS BEFORE AND SHALL SHOW NO LESS THAN 10 PARTS PER MILLION AVAILABLE CHLORINE BY WEIGHT; FAILING WHICH, ADDITIONAL DISINFECTION SHALL BE EFFECTED AS DIRECTED. CHLORINE SHALL BE ADDED TO THE NEW LINE AT THE UPPER END. IF THE CHLORINE RESIDUAL DROPS BELOW 25 PARTS PER MILLION IN ANY PORTION OF THE LINE, ADDITIONAL CHLORINE SHALL BE ADDED IN THAT VICINITY.
  - AFTER THE 24-HOUR STERILIZATION PERIOD, THE LINE SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL STRONGLY CHLORINATED WATER SAMPLES TAKEN AT VARIOUS POINTS, AS DIRECTED, TEST NOT IN EXCESS OF 2.0 PART PER MILLION.
  - CARE SHALL BE TAKEN TO PREVENT STRONG CHLORINE SOLUTION IN THE LINE BEING TREATED FROM FLOWING BACK INTO THE EXISTING SYSTEM.
  - DURING THE PROCESS OF CHLORINATING THE PIPE LINE, ALL VALVES AND OTHER DEVICES SHALL BE OPERATED WHILE THE PIPE LINE IS FILLED WITH THE HEAVILY CHLORINATED WATER.

**GENERAL SEWER NOTES**

- APPROVAL OF THESE PLANS DOES NOT RELIEVE THE DEVELOPER OF RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS OR OMISSIONS BY SAME. IF DURING THE COURSE OF CONSTRUCTION OF THESE IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OR DEPARTURE FROM THE CITY'S SPECIFICATIONS, DETAILS, OR THESE IMPROVEMENT PLANS, THE CITY ENGINEER SHALL HAVE AUTHORITY TO REQUIRE IN WRITING SUCH MODIFICATION OR DEPARTURE AND SPECIFY THE MANNER IN WHICH THE SAME IS DONE.
- CONTRACTOR WILL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION AND TESTING OF SEWER IMPROVEMENTS AS SHOWN ON THE APPROVED PLANS AND SPECIFICATIONS.
- POLY VINYL CHLORIDE PIPE (PVC), REPLACE WITH APPLICABLE LANGUAGE FOR VITRIFIED CLAY PIPE.
  - PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D-3034 SDR-35. PIPE FITTINGS SHALL BE HOMOGENEOUS THROUGHOUT AND FREE FROM CRACKS, HOLES, FOREIGN INCLUSIONS OR OTHER INJURIOUS DEFECTS. FITTINGS SHALL BE INJECTION MOLDED AND SHALL BE INSTALLED IN LINE ON NEW PIPELINES. RESILIENT CONNECTORS CONFORMING TO ASTM C923 ENCASED IN 2 SACK SLURRY MAY BE USED AT TIE-IN LOCATIONS ON EXISTING PIPELINES.
  - USE ONLY ELASTOMERIC GASKET JOINTS. THE ASSEMBLY OF JOINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND APPLICABLE ASTM SPECIFICATIONS. WHERE PVC PIPE CONNECTS TO VCP, DL, OR OTHER EXISTING SEWER LINE MATERIALS, USE COUPLINGS APPROVED BY THE CITY.
  - PIPE AND FITTINGS SHOULD BE INSTALLED IN ACCORDANCE WITH ASTM D 2321. ONLY CLASS I, II, AND ILL EMBEDMENT MATERIALS WILL BE CONSIDERED SUITABLE.
- EXCAVATION SHALL BE SUPPORTED IN CONFORMANCE WITH THE RULES, ORDERS AND REGULATIONS OF THE CALIFORNIA DEPT OF INDUSTRIAL RELATIONS AND THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA. SHEET PILING AND OTHER TIMBERS SHALL BE DRAWN IN A MANNER THAT WILL PREVENT CAVING OF THE WALLS OF THE EXCAVATION OR OTHER LOAD ON THE PIPE OR CONDUIT.
- WYE FITTINGS SHALL BE IN-LINE TYPE AND SHALL BE USED FOR ALL LATERAL CONNECTIONS AND SHALL BE ROTATED A MINIMUM OF 45° ABOVE THE HORIZONTAL PLANE RUNNING THROUGH THE CENTERLINE OF THE MAIN.
- ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY STANDARD DETAILS.
- ALL FLUSHING CLEANOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARD DETAILS.
- THE SYSTEM WILL BE INSPECTED AFTER FINAL PAVING IS COMPLETED AND ANY DAMAGE TO THE SYSTEM DURING FINAL PAVING AND CLEANUP WILL BE CORRECTED BEFORE APPROVAL, AT THE FULL EXPENSE OF THE CONTRACTOR.
- THE SEWER CONTRACTOR SHALL ADJUST MANHOLE FRAMES TO GRADE AND CONSTRUCT CONCRETE COLLARS AROUND SAME AFTER PAVING.
- HYDRO-HAMMER OR SIMILAR HIGH ENERGY COMPACTION EQUIPMENT SHALL NOT BE USED FOR COMPACTING BACKFILL AROUND MANHOLES OR BACKFILL WITHIN PIPELINE TRENCH.
- CLEANING:
  - ANY STOPPAGE, DIRT, OR FOREIGN MATTER SHALL BE REMOVED FROM THE LINES.
  - ALL CLEANING AND TESTING OF SEWER LINES SHALL TAKE PLACE AFTER ALL CONSTRUCTION WORK IS COMPLETED.
- TESTING- MANDREL TEST OF PVC PIPE:
  - FOLLOWING THE PLACEMENT AND DENSIFICATION OF BACKFILL AND PRIOR TO THE PLACING OF PERMANENT PAVEMENT, ALL MAIN LINE PIPE SHALL BE CLEANED AND THEN MANDRELLED TO MEASURE FOR OBSTRUCTIONS (DEFLECTIONS, JOINT OFFSETS, AND LATERAL PIPE INTRUSIONS).
  - A RIGID MANDREL, WITH A CIRCULAR CROSS SECTION, CERTIFIED AS HAVING A DIAMETER CONFORMING TO CITY SPECIFICATIONS, SHALL BE PULLED THROUGH THE PIPE BY HAND. THE MINIMUM LENGTH OF THE CIRCULAR PORTION OF THE MANDREL SHALL BE EQUAL TO THE NOMINAL DIAMETER OF THE PIPE. THE MANDREL SHALL HAVE ODD NUMBER OF RIBS, NUMBERING NO LESS THAN 9, SPACED EVENLY AROUND THE MANDREL.
  - IF THE PIPE DOES NOT MEET THE MANDREL TEST, PIPE SHALL BE UNCOVERED AND THE DEFECTIVE JOINT OR PIPE REPLACED. THAT SECTION OF PIPE SHALL BE RE-TESTED UNTIL THE MANDREL TEST IS PASSED.
- TESTING- PRESSURE TEST:
  - PRIOR TO FINAL APPROVAL ALL GRAVITY SEWER LINES SHALL BE TESTED FOR LEAKAGE BY STANDARD HYDROSTATIC OR LOW-PRESSURE AIR TEST.
  - TESTING OF THE SEWER LINE SHALL BE CONDUCTED FROM MANHOLE TO MANHOLE IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN CITY STANDARDS.
  - IF THE PIPE DOES NOT MEET THE PRESSURE TEST, PIPE SHALL BE UNCOVERED AND THE DEFECTIVE JOINT OR PIPE REPLACED. THAT SECTION OF PIPE SHALL BE RE-TESTED UNTIL THE PRESSURE TEST IS PASSED.
- VIDEO INSPECTION
  - PRIOR TO FINAL ACCEPTANCE, ALL SEWER MAIN PIPELINES SHALL BE VIDEO INSPECTED AS EVIDENCE OF THE CONDITION OF THE PIPE INTERIOR AND TO VERIFY THAT THE PIPE HAS BEEN CLEANED AND INSTALLED TO THE PROPER GRADE. IMAGERY SHALL BE DONE IN COLOR ON DVD FORMAT WITH SUFFICIENT CLARITY TO JUDGE THE CONDITION OF THE PIPING. THE EQUIPMENT SHALL HAVE AN ACCURATE FOOTAGE COUNTER AND BE CAPABLE OF ROTATING 360 DEGREES TO VIEW THE FULL CIRCUMFERENCE. VIDEO FOOTAGE SHALL BE PROVIDED TO THE CITY ACCOMPANIED BY A WRITTEN REPORT OF OBSERVATIONS.
  - THE VIDEO CAMERA SHALL BE LIGHTED TO PROVIDE A CLEAR VIEW OF THE ENTIRE PIPELINE AND ALL SERVICE LATERALS AND BE ABLE TO RECORD LENGTH OF RUN.
  - ACCEPTABLE VIDEO FORMATS INCLUDE AN ELECTRONIC DIGITAL FORMAT.
  - SHOULD THE VIDEO INDICATE ANY FAULTY INSTALLATION OF THE PIPE, REPAIRS OR REPLACEMENT SHALL BE MADE AS DETERMINED BY THE CITY.

**TRAFFIC CONTROL NOTES**

- NOTIFY THE CITY OF TEHACHAPI TWO (2) WORKING DAYS IN ADVANCE OF ALL WORK THAT AFFECTS TRAFFIC ON CITY STREET.
- NO CONSTRUCTION WORK WILL COMMENCE UNTIL ALL CONSTRUCTION SIGNING IS IN PLACE.
- CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA MANUAL OF WARNING SIGNS, LIGHTS AND DEVICES. THE CITY SHALL APPROVE THE LOCATION OF ALL CONSTRUCTION SIGNS AND DEVICES TO BE USED ON THIS PROJECT.
- ALL CONSTRUCTION SIGNS AND DEVICES SHALL BE REFLECTORIZED AND PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL ERECT AND MAINTAIN SAID SIGNS FOR THE LENGTH OF THE CONTRACT. ALL SIGNS TO BE MOUNTED ON 4-INCH BY 4-INCH POSTS WITH WOOD BLOCK. ZINC COATED 4-INCH LAG SCREWS AND WASHERS. MINIMUM EMBEDMENT OF POST SHALL BE 3 FEET 6 INCHES INTO SOIL. BOTTOM OF SIGN SHALL BE 7 FEET ABOVE CENTERLINE OF ROAD GRADE.
- CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL CONSTRUCTION TRAFFIC CONTROL NECESSARY. THIS MAY INCLUDE TEMPORARY TRAVEL LANE TAPE DELINEATORS, AND TEMPORARY SIGNING FOR ALL PERMANENT SIGNS REMOVED.
- COMPETENT FLAGMEN AND NECESSARY SIGNING SHALL BE USED WHEN:
  - TWO-WAY TRAFFIC MUST USE A SINGLE LANE, OR
  - EQUIPMENT IS WORKING ON OR IMMEDIATELY ADJACENT TO TRAVELED ROADWAY.
- ONLY PLYWOOD, METAL, OR CANVAS SHALL BE USED AS A SIGN COVER. SIGN COVER SHALL BE PLACED TO COVER THE ENTIRE SIGN MESSAGE THAT IS TEMPORARILY INAPPLICABLE.
- MINIMUM WIDTH OF OF ANY TRAVELED LANE SHALL BE TWELVE (12) FEET.
- ALL REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO ACCEPTANCE OF IMPROVEMENTS BY THE CITY OF TEHACHAPI.

**LEGEND**

C.T.I.S.	CITY OF TEHACHAPI IMPROVEMENT STANDARDS
H.L.	HOUSE LATERAL
P.V.C.	POLYVINYL CHLORIDE
RIM	TOP OF MANHOLE ELEVATION
INV	PIPE INVERT ELEVATION
CB	CATCH BASIN
—6"W—	6" P.V.C. WATER MAIN (UNLESS OTHERWISE NOTED)
—8"S—	8" SEWER MAIN (UNLESS OTHERWISE NOTED)
—8"F—	8" P.V.C. FIRE MAIN (UNLESS OTHERWISE NOTED)
▼	STANDARD FIRE HYDRANT ASSEMBLY TO BE INSTALLED PER CTIS STD PLAN 4.4
⊥	BLOWOFF ASSEMBLY PER CTIS STD PLAN 4.5
⊥	1" STANDARD WATER SERVICE PER CTIS STD PLAN 4.2
⊥	4" SEWER LATERAL TO BE INSTALLED PER CTIS STD PLAN 3.1
⊥	AIR RELEASE VALVE ASSEMBLY PER CTIS STD PLAN 4.9
⊙	INSTALL SEWER MANHOLE PER CTIS STD PLAN 3.5, 3.6 AND 3.7.
⊥	VALVE TO BE INSTALLED ON EACH BRANCH UNLESS OTHERWISE NOTED. VALVE W/ VALVE BOX ASSEMBLY PER CTIS STD PLAN 4.6 AND THRUST BLOCK PER CTIS STD PLAN 4.8.
⊥	TEE OF THE SAME SIZE AS MAIN UNLESS OTHERWISE NOTED. THRUST BLOCKS TO BE INSTALLED PER CTIS STD PLAN 4.8.

**WATER MATERIAL LIST**

ESTIMATED QUANTITIES. NOT TO BE USED FOR BIDDING PURPOSES.

STANDARD WATER METER	2 EA
8" BACKFLOW PREVENTER	2 EA
6" BACKFLOW PREVENTER	1 EA
2" BACKFLOW PREVENTER	1 EA
8" PVC C900 FIRE MAIN	1,992 LF
6" PVC C900 WATER MAIN	1,919 LF
1" WATER SERVICES	97 EA
METER BOXES W/COVERS	97 EA
4" FIRE SERVICES	32 EA
8" WATER VALVES	16 EA
6" WATER VALVES	20 EA
10"x10"x8" TEES	1 EA
10"x10"x6" TEES	2 EA
8"x8"x8" TEES	5 EA
8"x8"x6" TEES	7 EA
8"x8"x2" TEES	1 EA
6"x6"x6" TEES	4 EA
8" 90° ELBOWS	6 EA
6" 90° ELBOWS	3 EA
FIRE HYDRANT ASSEMBLIES	8 EA
6" FIRE HYDRANT LATERAL	239 LF
BLOW OFF ASSEMBLY	2 EA
AIR RELEASE VALVE ASSEMBLY	1 EA

**SEWER MATERIAL LIST**

ESTIMATED QUANTITIES. NOT TO BE USED FOR BIDDING PURPOSES.

8" PVC SDR35 SEWER MAIN	2,230 LF
4" PVC (LATERALS)	1,260 LF
MANHOLES	11 EA



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**CITY OF TEHACHAPI**  
**UTILITY PLAN**  
**TRACT NO. 6507**  
**NOTES & QUANTITIES**

SHEET  
2 OF  
6 SHEETS

**LEGEND**

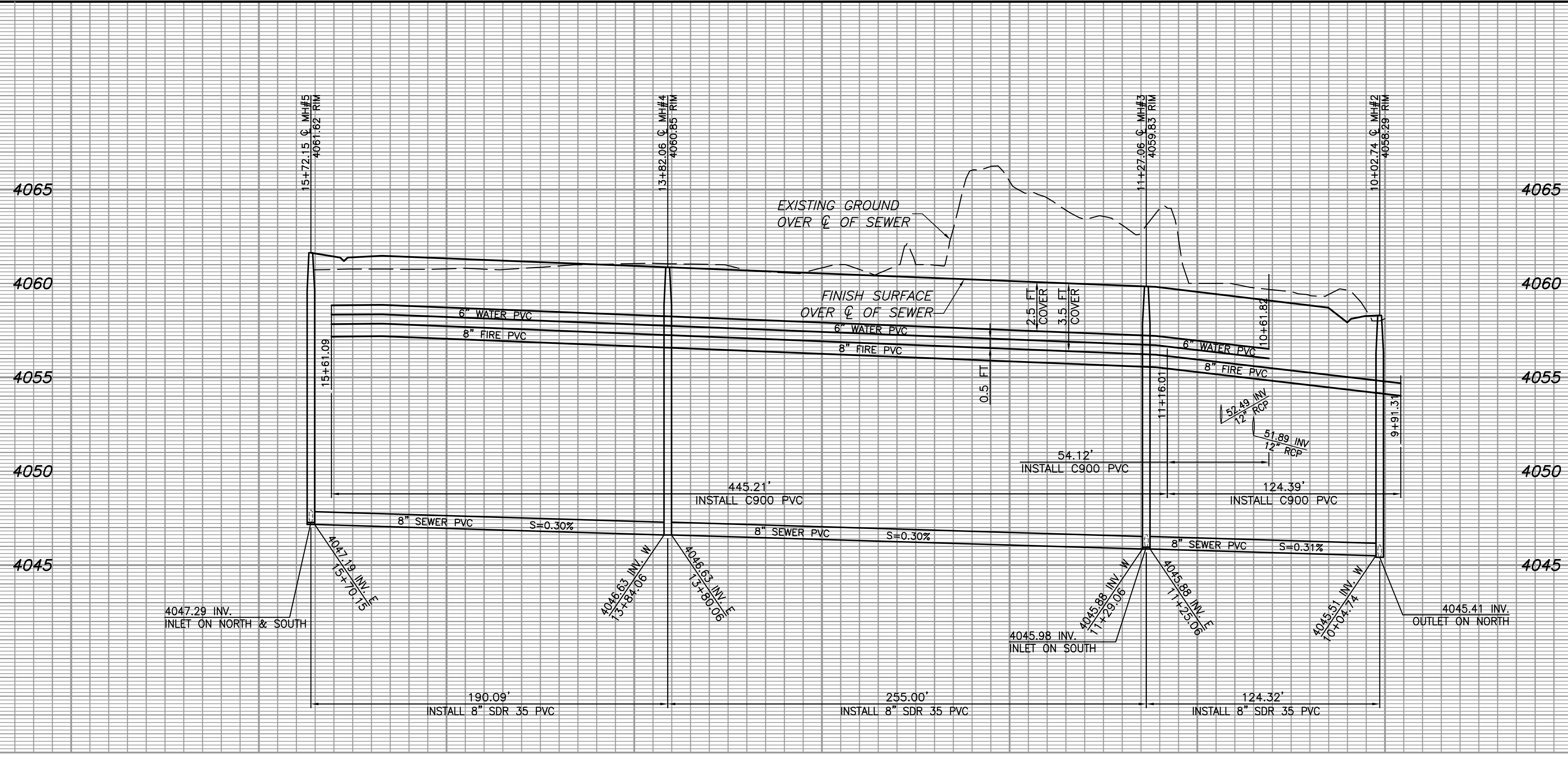
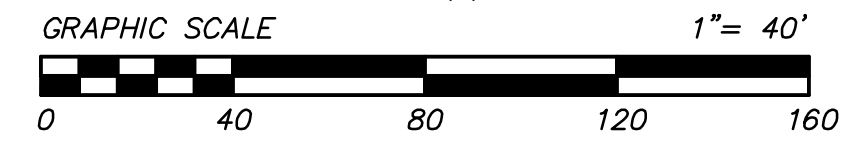
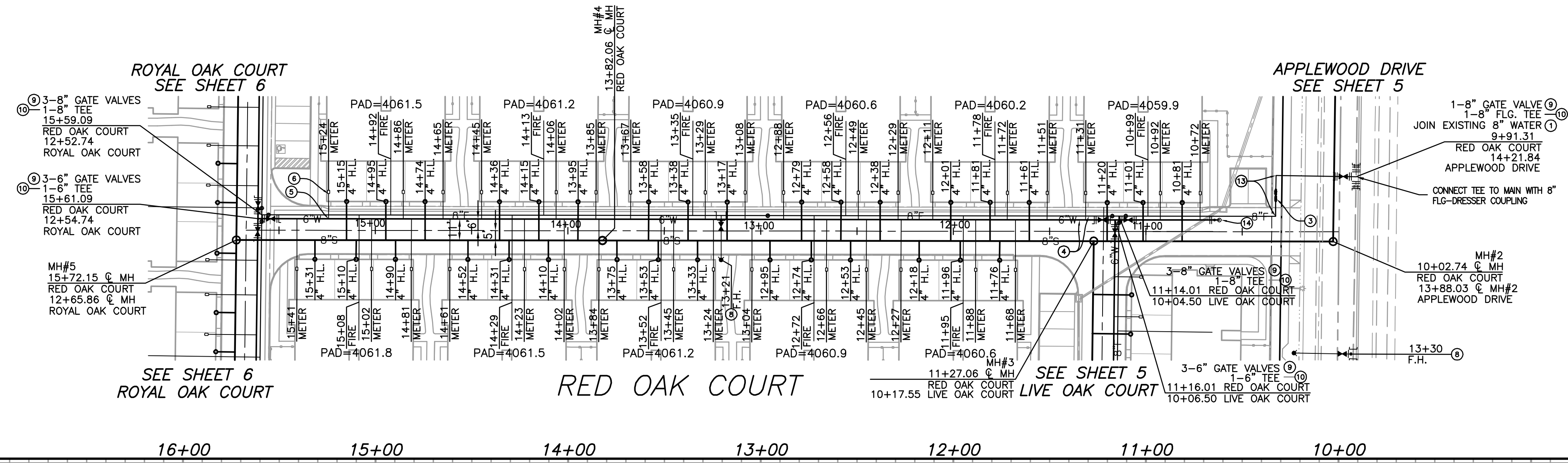
- C.T.I.S. CITY OF TEHACHAPI IMPROVEMENT STANDARDS
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- 8"S— INSTALL 8" SEWER MAIN (UNLESS OTHERWISE NOTED)
- ☼ STANDARD FIRE HYDRANT ASSEMBLY TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.4
- ☼ STANDARD BLOWOFF ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.5
- 4" SEWER LATERAL TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 3.1 & 3.2
- INSTALL SEWER MANHOLE PER C.T.I.S. STANDARD PLAN 3.5 & 3.7.
- ☒ VALVE BOX ASSEMBLY TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.6 NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8
- ⊥ TEE TO BE INSTALLED TO BE THE SAME SIZE AS THE MAIN UNLESS OTHERWISE NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8
- 1" SINGLE WATER SERVICE PER C.T.I.S. STANDARD PLAN 4.2
- ☒ STANDARD AIR RELEASE VALVE ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.9

**NOTE**

MANHOLES WITH A DEPTH GREATER THAN 10 FEET TO BE 60" DIAMETER PER STANDARD PLAN 3.6

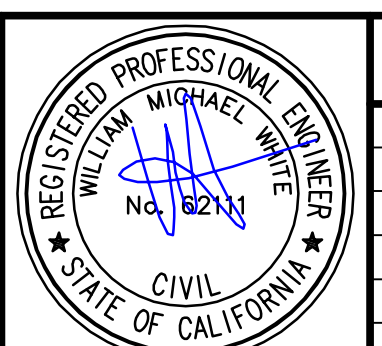
**CONSTRUCTION NOTES**

- 1 TAP PER PLAN
- 2 SERVICE METER PER C.T.I.S. STANDARD PLAN 4.3. SIZE PER PLAN
- 3 DOUBLE CHECK VALVE BACKFLOW REDUCED PRESSURE PREVENTION ASSEMBLY, FEBCO LF860 OR EQUAL, TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.10.
- 4 PVC, C900 PIPE, SIZE PER PLAN.
- 5 6" TO 2" DUCTILE IRON C153 TAP ON REDUCING TEE, CONNECT 1 FOOT OF 2" SCHEDULE 80 PVC TO 2"-1.5" REDUCER BEFORE CONNECTING TO 1.5" SERVICE LINE (SEE CONSTRUCTION NOTE 8), TYPICAL FOR ALL WATER SERVICE CONNECTIONS OFF 6" WATER MAIN.
- 6 1.5" SCHEDULE 80 PVC SERVICE & 1" KAMSTRUP IQ 3101 METER. APPROXIMATE LOCATION OF METER. ACTUAL LOCATION OF METER TO BE DETERMINED IN THE FIELD OR PER PLUMBING PLAN. TYPICAL FOR ALL METERS.
- 7 4" DUCTILE IRON PIPE FOR FIRE SPRINKLER SERVICE. 1 FIRE LINE OFF 8" MAIN PER BUILDING
- 8 FIRE HYDRANT LATERAL PER C.T.I.S. STANDARD PLAN 4.4
- 9 INSTALL GATE VALVE, SIZE PER PLAN. VALVE BOX ASSEMBLY TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.6 NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8.
- 10 TEE TO BE INSTALLED TO BE THE SAME SIZE AS THE MAIN UNLESS OTHERWISE NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8.
- 11 2"x90° ELBOW WITH THRUST BLOCKS PER C.T.I.S. STANDARD PLAN 4.8.
- 12 6"x90° ELBOW WITH THRUST BLOCKS PER C.T.I.S. STANDARD PLAN 4.8.
- 13 8"x90° ELBOW WITH THRUST BLOCKS PER C.T.I.S. STANDARD PLAN 4.8.
- 14 BLOWOFF ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.5.
- 15 COMBINATION AIR RELEASE VALVE ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.9.



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 400 SAN FERNANDO MISSION BLVD SUITE 200, SAN FERNANDO CA 91340  
 Phone: 818-832-1710 • Fax: 818-832-1740  
 PREPARED UNDER THE SUPERVISION OF:  
 WILLIAM M. WHITE, P.E. R.C.E. 62111 DATE 2/18/22



REVISION BLOCK			
REV#	DATE	BY	REVISION DESCRIPTION
1	2/18/22	W.W.	UPDATED CONSTRUCTION NOTES

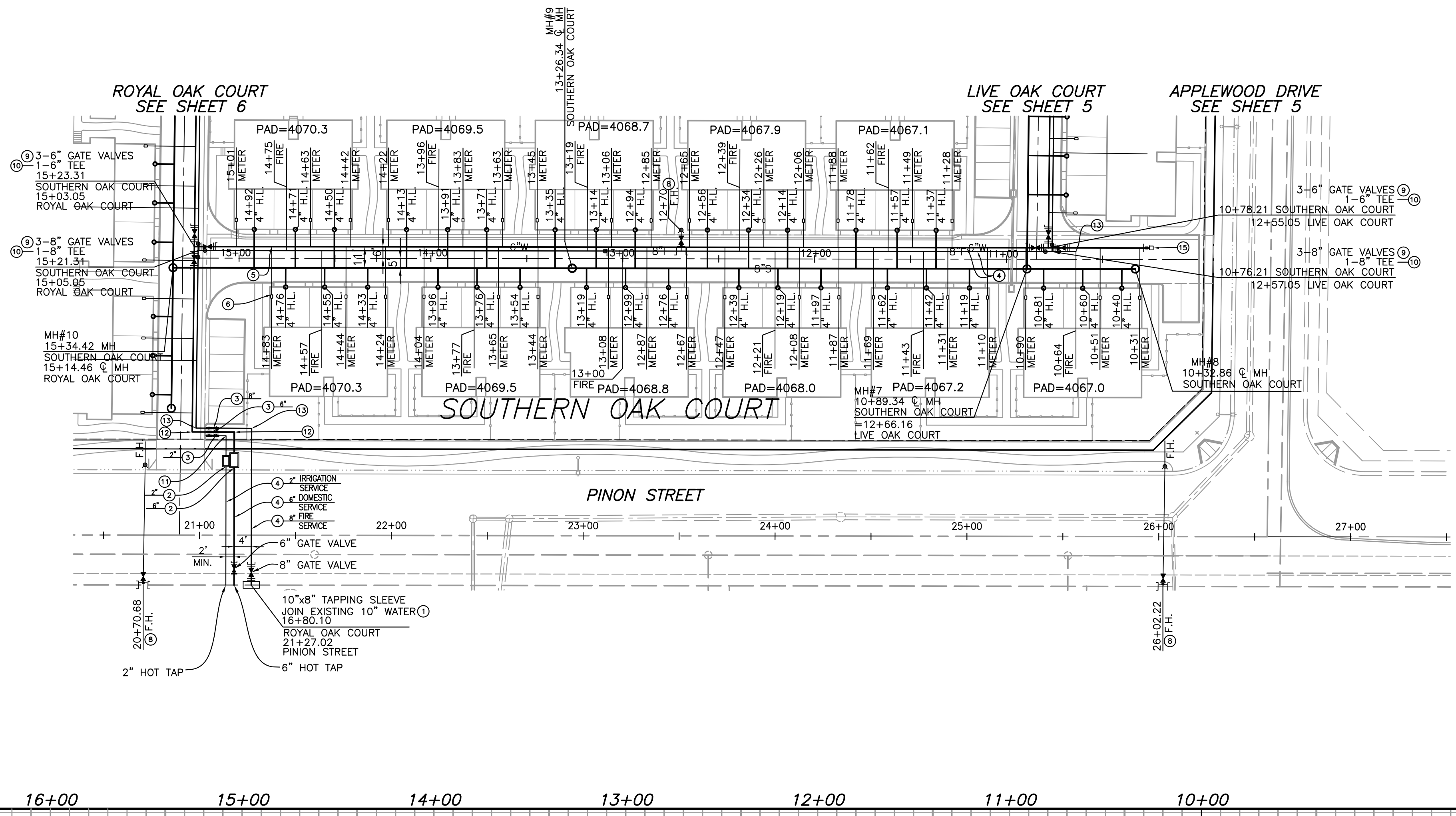
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**CITY OF TEHACHAPI**  
 UTILITY PLAN  
 TRACT NO. 6507  
 RED OAK COURT UTILITY PLAN

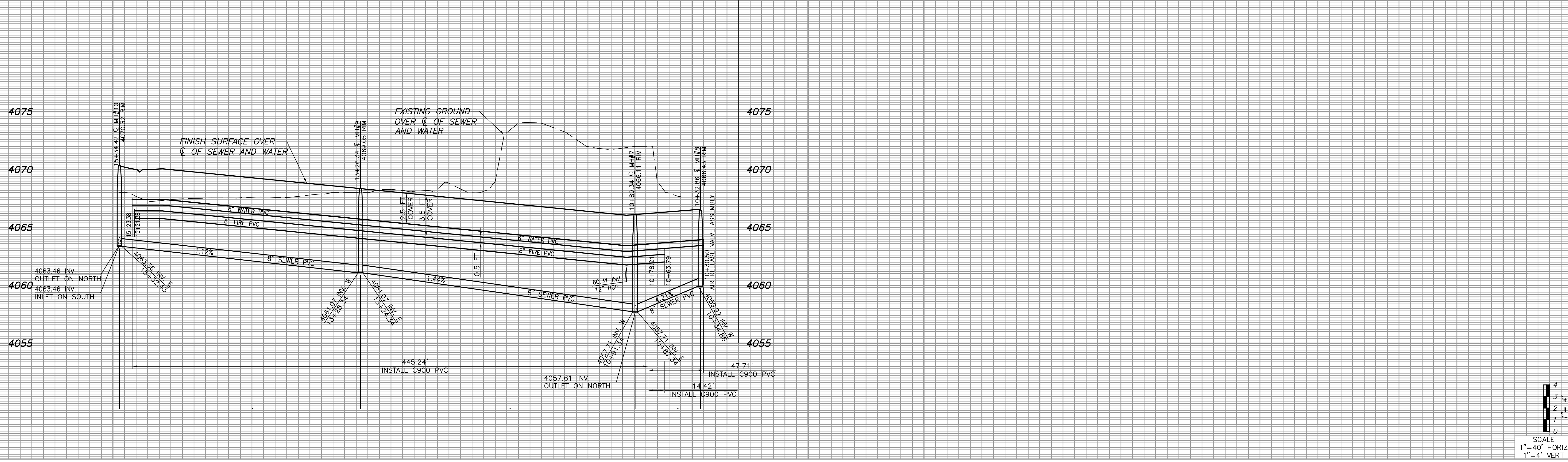
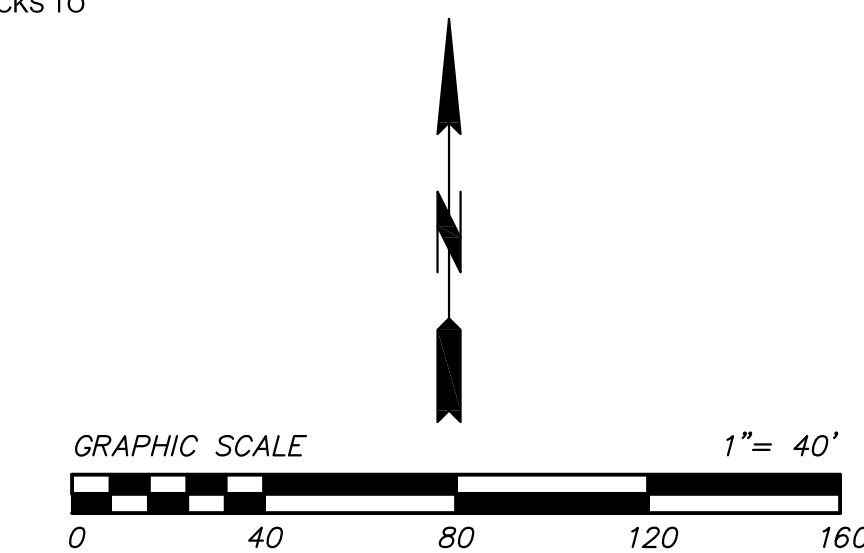
SHEET  
 3 OF  
 6 SHEETS

Drawing Name: U:\2182\6507\Final Plans\Utilities\03\_6403201.dwg  
 Last Opened: Feb 17, 2023 9:06am by Gerratt



- ### LEGEND
- C.T.I.S. CITY OF TEHACHAPI IMPROVEMENT STANDARDS
  - H.L. HOUSE LATERAL
  - P.V.C. POLYVINYL CHLORIDE
  - RIM TOP OF MANHOLE ELEVATION
  - INV. PIPE INVERT ELEVATION
  - C.B. CATCH BASIN
  - 6"W INSTALL 6" P.V.C. C900 WATER MAIN (UNLESS OTHERWISE NOTED)
  - 8"F INSTALL 6" PVC C900 FIRE MAIN (UNLESS OTHERWISE NOTED)
  - 8"S INSTALL 8" SEWER MAIN (UNLESS OTHERWISE NOTED)
  - STANDARD FIRE HYDRANT ASSEMBLY TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.4
  - STANDARD BLOWOFF ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.5
  - 4" SEWER LATERAL TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 3.1 & 3.2
  - INSTALL SEWER MANHOLE PER C.T.I.S. STANDARD PLAN 3.5 & 3.7.
  - VALVE BOX ASSEMBLY TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.6 NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8
  - TEE TO BE INSTALLED TO BE THE SAME SIZE AS THE MAIN UNLESS OTHERWISE NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8
  - 1" SINGLE WATER SERVICE PER C.T.I.S. STANDARD PLAN 4.2
  - STANDARD AIR RELEASE VALVE ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.9

- ### CONSTRUCTION NOTES
- 1 TAP PER PLAN
  - 2 SERVICE METER PER C.T.I.S. STANDARD PLAN 4.3. SIZE PER PLAN
  - 3 DOUBLE CHECK VALVE BACKFLOW REDUCED PRESSURE PREVENTION ASSEMBLY, FEBCO LF860 OR EQUAL, TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.10.
  - 4 PVC, C900 PIPE. SIZE PER PLAN.
  - 5 6" TO 2" DUCTILE IRON C153 TAP ON REDUCING TEE. CONNECT 1 FOOT OF 2" SCHEDULE 80 PVC TO 2"-1.5" REDUCER BEFORE CONNECTING TO 1.5" SERVICE LINE (SEE CONSTRUCTION NOTE 8). TYPICAL FOR ALL WATER SERVICE CONNECTIONS OFF 6" WATER MAIN.
  - 6 1.5" SCHEDULE 80 PVC SERVICE & 1" KAMSTRUP IQ 3101 METER. APPROXIMATE LOCATION OF METER. ACTUAL LOCATION OF METER TO BE DETERMINED IN THE FIELD OR PER PLUMBING PLAN. TYPICAL FOR ALL METERS.
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  - 9 INSTALL GATE VALVE. SIZE PER PLAN. VALVE BOX ASSEMBLY TO BE INSTALLED PER C.T.I.S. STANDARD PLAN 4.8 NOTED. THRUST BLOCKS TO BE INSTALLED AT TEES AND GATE VALVES PER C.T.I.S. STANDARD PLAN 4.8.
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  - 14 BLOWOFF ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.5.
  - 15 COMBINATION AIR RELEASE VALVE ASSEMBLY PER C.T.I.S. STANDARD PLAN 4.9.



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**CITY OF TEHACHAPI**  
 UTILITY PLAN  
 TRACT NO. 6507  
 SOUTHERN OAK COURT  
 UTILITY PLAN

**SHEET**  
 4 OF  
 6 SHEETS

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 Last Opened: Feb 17, 2023 - 6:56am by Garrett

**LEGEND**

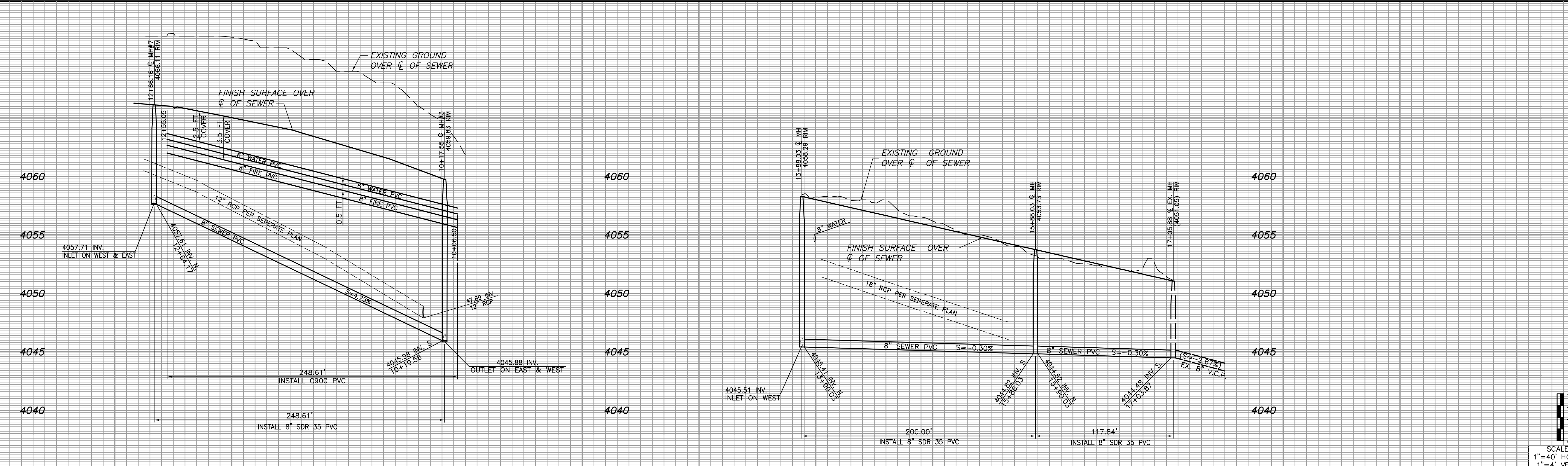
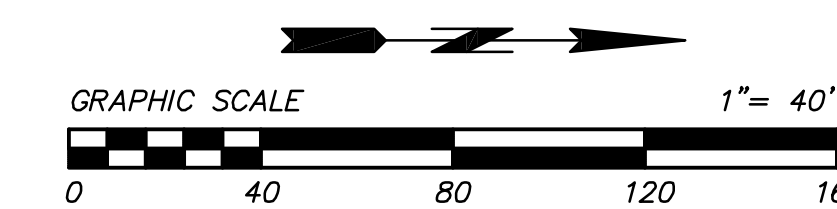
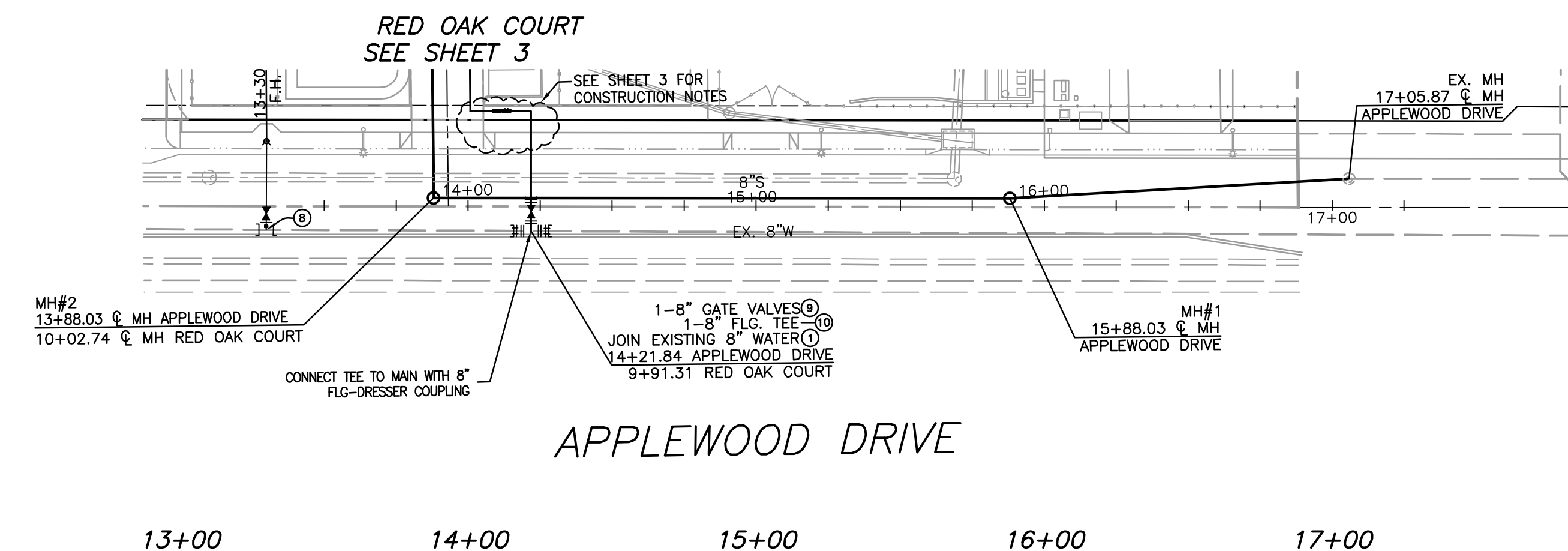
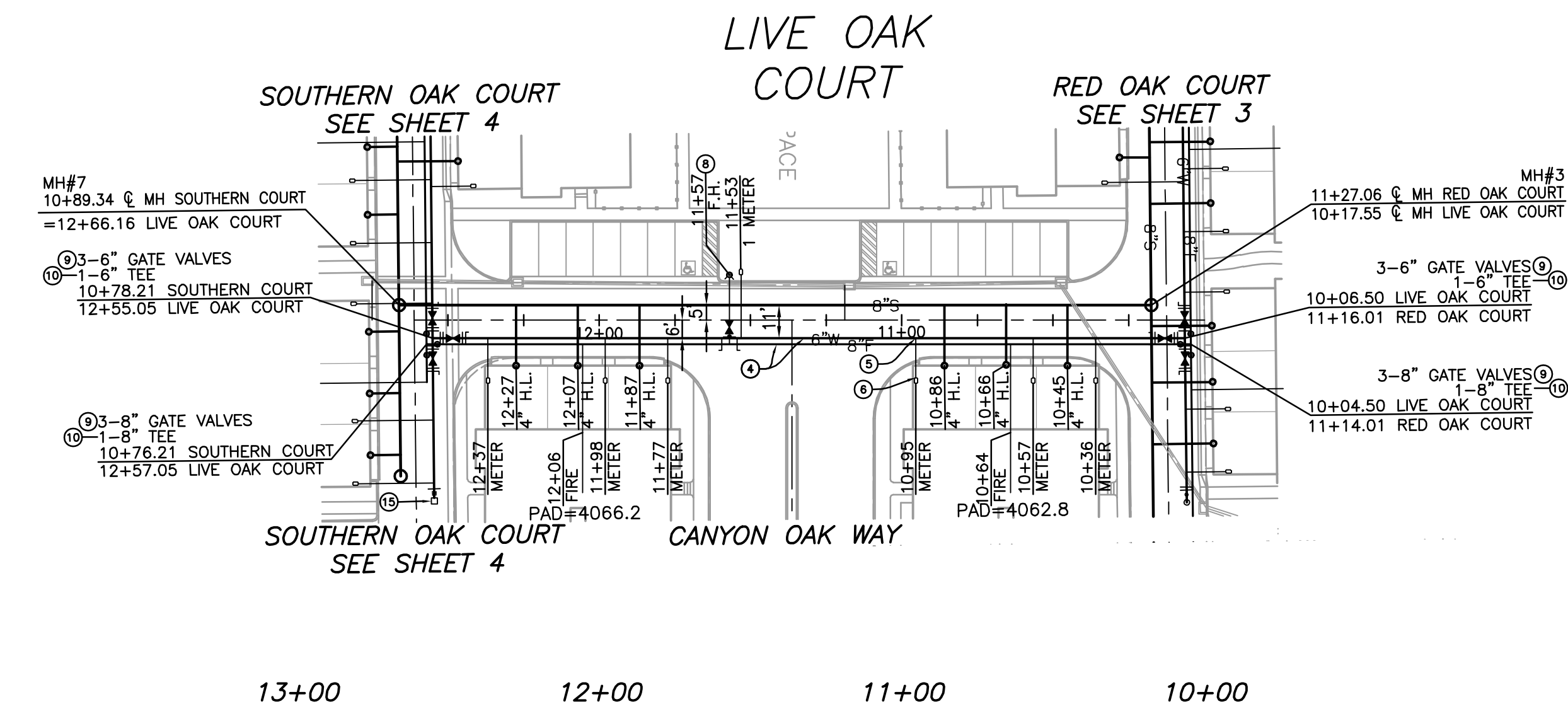
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**NOTE**

MANHOLES WITH A DEPTH GREATER THAN 10 FEET TO BE 60" DIAMETER PER STANDARD PLAN 3.6

**CONSTRUCTION NOTES**

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**CITY OF TEHACHAPI**  
 UTILITY PLAN  
 TRACT NO. 6507  
 LIVE OAK COURT & APPLEWOOD DRIVE  
 UTILITY PLAN

SHEET  
 5 OF  
 6 SHEETS

Drawing Name: C:\21822\Proj\Final Plans\Utility\05\_6423201.dwg  
 Last Opened: Mar 17, 2023 12:37pm by Garret

**LEGEND**

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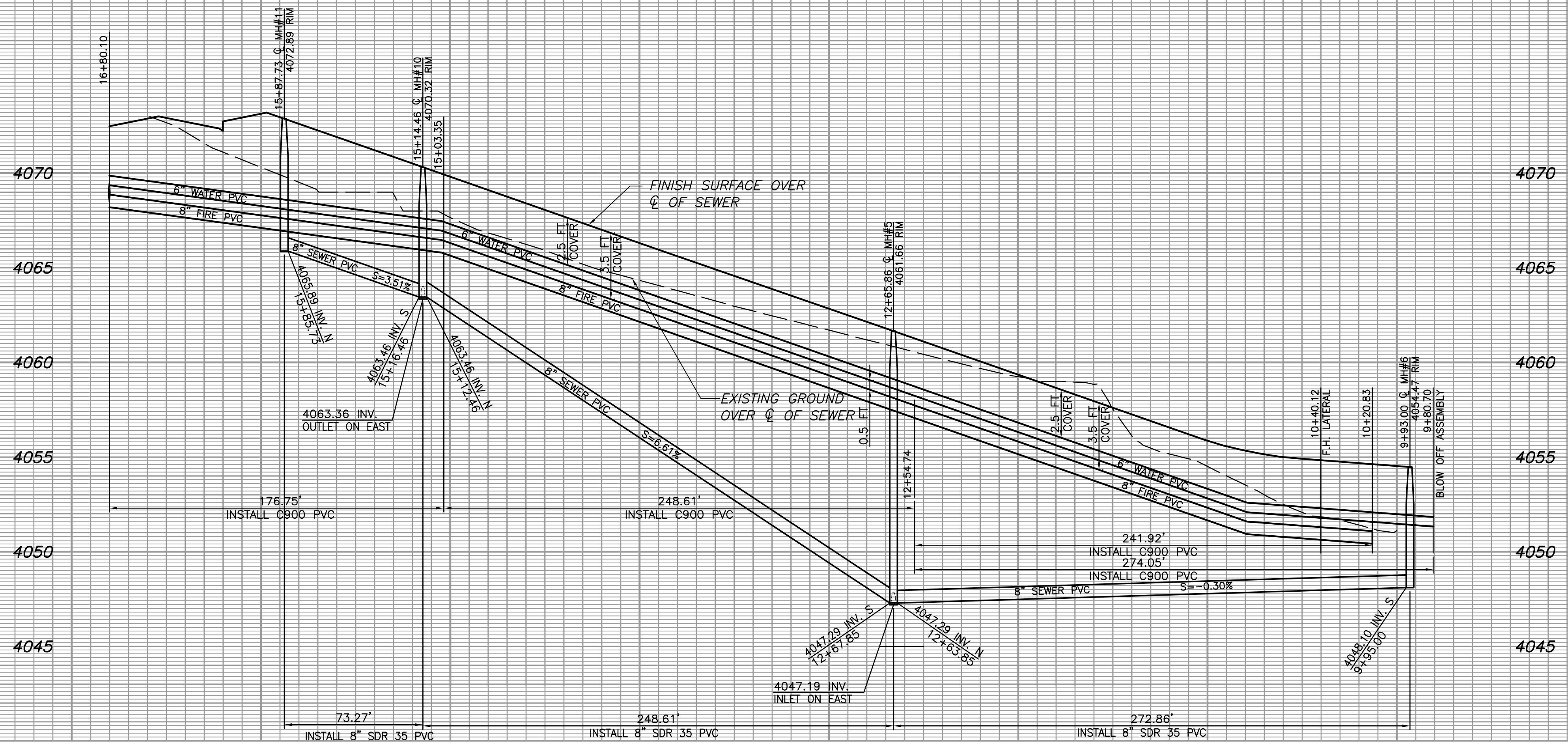
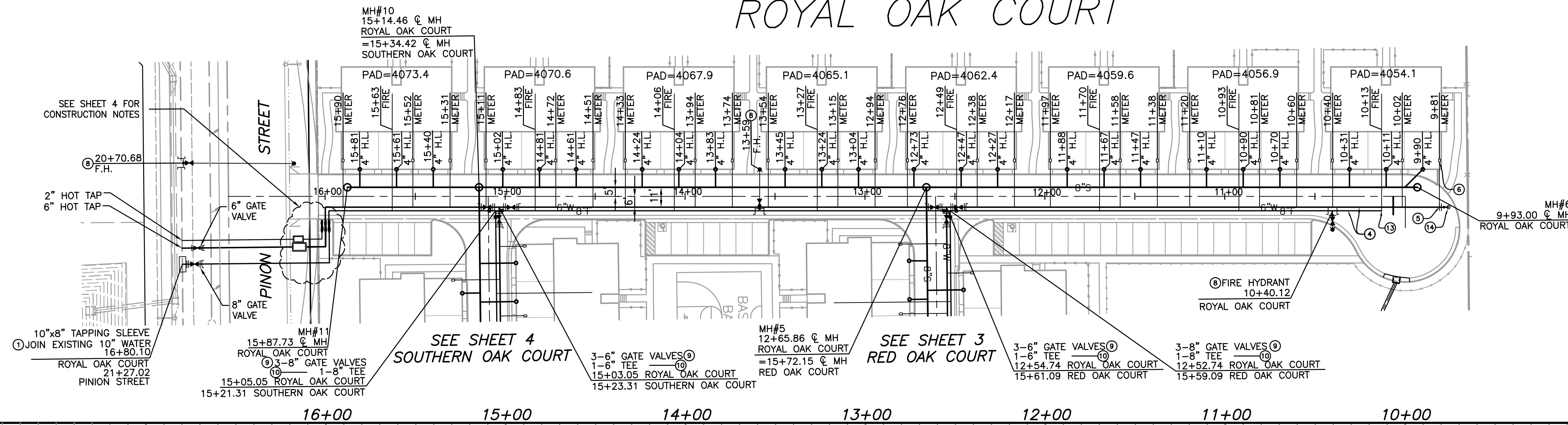
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**CONSTRUCTION NOTES**

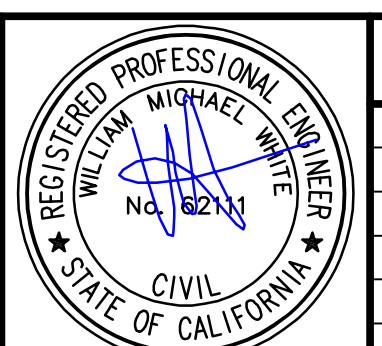
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**ROYAL OAK COURT**



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