

CITY STANDARD NOTES SHALL BE PLACED ON THE PLANS, WHERE APPLICABLE:

- THESE PLANS HAVE BEEN CHECKED BY THE CITY OF TURLOCK AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM ITS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.
- ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN IN REVISED PLANS STAMPED AND SIGNED BY THE CITY PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
- THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF CITY OF TURLOCK ENGINEERING. CONTACT ENGINEERING DIVISION AT LEAST TWO (2) WORKING DAYS PRIOR TO START ANY WORK TO ARRANGE FOR INSPECTION.
- NOTIFY UNDERGROUND SERVICE ALERT (USA) 811 AT LEAST TWO (2) WORKING DAYS PRIOR TO EXCAVATION.
- IF NECESSARY TO CONFIRM FIELD LOCATIONS OF FACILITIES, EXPLORATORY TRENCHING OR POT-HOLING SHALL BE DONE AT THE EXPENSE OF CONTRACTOR.
- IF A CONFLICT OCCURS BETWEEN THE CITY OF TURLOCK IMPROVEMENT STANDARDS AND THE RECOMMENDATIONS BY THE DESIGN ENGINEER AND/OR SOILS ENGINEER, THE MORE STRINGENT SHALL APPLY AS DIRECTED BY THE CITY ENGINEER.
- BASIS OF ELEVATION DATUM SHALL BE PROVIDED (IF CITY/COUNTY BENCHMARK, GIVE NUMBER, LOCATION AND ELEVATION).
- EXISTING UTILITIES SHALL NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH APPROPRIATE AGENCIES AND UTILITY COMPANIES.
- FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE CITY RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT THE SPECIFIC APPROVAL OF THE CITY ENGINEER.
- ALL CONSTRUCTION STAKING WATER LINES, FIRE HYDRANTS ETC. SHALL BE DONE BY REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
- ALL AREA UNDERGOING ALL CONSTRUCTION ACTIVITIES SHALL BE WATERED, OR OTHER DUST-PALLIATIVE MEASURES USED, TO PREVENT DUST, AS CONDITIONS WARRANT. WATER TRUCKS SHALL BE AVAILABLE AT ALL TIMES.
- PRIOR TO RECEIVING/TAKING ANY WATER FROM THE CITY OF TURLOCK WATER SYSTEM THE CONTRACTOR SHALL ACQUIRE A CITY WATER METER OR CITY FIRE HYDRANT METER PER THE SPECIAL PROVISIONS. ALL WATER USAGE SHALL BE METERED.
- ANY DAMAGE CAUSED BY TRENCHING TO EXISTING UNDERGROUND UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED AT HIS/HER EXPENSE.
- TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF TURLOCK ENGINEERING DIVISION FOR APPROVAL PER THE SPECIAL PROVISIONS.
- ANY STREET MONUMENTS, LOT CORNER, BENCHMARKS AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY THE LICENSED LAND SURVEYOR.
- EROSION CONTROL PLAN MUST BE PREPARED CONSISTENT TO CITY STANDARDS.
- DISPOSAL OF WATER TO CITY SANITARY SEWER SYSTEM IS PROHIBITED.
- THE MANNER OF BRACING AND SHORING EXCAVATIONS SHALL BE AS SET FORTH IN THE RULES, ORDERS AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY.
- PRIOR TO BEGIN WORK, CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF TURLOCK.

CONSTRUCTION NOTES AND SPECIFICATIONS

- WATER SYSTEM**
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE BY THE CONTRACTOR WITH CITY INSPECTOR PRESENT. CONTRACTOR SHALL EXCAVATE THE AREA AND PROVIDE ALL MATERIALS REQUIRED.
 - OPERATION OF WATER VALVES OR OTHER CONTROL DEVICES SHALL ONLY BE DONE BY CITY OF TURLOCK CREWS.
 - 1" WATER LINES SHALL BE 1" ULTRA HIGH MOLECULAR WEIGHT (UHMW) POLYETHYLENE, SDR 7 (IPS), 160 PSI RATING CONFORMING TO THE LATEST EDITION OF THE UNIFORM PLUMBING CODE AND THE REQUIREMENTS OF THE CITY OF TURLOCK BUILDING DEPARTMENT.
 - ALL WATER MAINS 4" AND LARGER SHALL BE POLYVINYL CHLORIDE PIPE (PVC) CLASS 235 PSI (DR 18) (PIPE SIZE: 4" TO 12") CONFORMING TO AWWA C900-07. DUCTILE IRON FITTINGS INCLUDING TEES, CROSSSES, CAPS, ETC. SHALL BE FLANGE, MECHANICAL JOINT OR COMBINATION THEREOF. MECHANICAL JOINT COUPLINGS SHALL CONFORM TO ANSI A21.10 (AWWA C110-77). ALL COUPLINGS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104-80 AND SHALL BE FURNISHED WITH RUBBER RING SEAL JOINTS DESIGNED TO BE USED WITH CLASS 235 PSI (DR 18) PVC PIPE, AWWA C900-07.
 - ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM FINISH GRADE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE ELEVATION OF EXISTING WATER LINES PRIOR TO BEGINNING CONSTRUCTION.
 - WATER SERVICES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLAN, OR AT LOCATIONS AS DETERMINED BY THE CITY ENGINEER, IF ADDITIONAL SERVICES ARE REQUIRED.
 - WATER LINES SHALL BE CHLORINATED AND TESTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE TEST RESULTS SHALL BE APPROVED BY THE CITY OF TURLOCK PRIOR TO THE CONNECTION TO THE CITY WATER SYSTEM. THE FIRST TEST WILL BE PROVIDED AT NO CHARGE TO THE CONTRACTOR. ALL RETEST SHALL BE CHARGED TO THE CONTRACTOR AT A RATE AS NOTED IN THE PROJECT SPECIAL PROVISIONS.
 - ABANDON IN-PLACE EXISTING WATER LINES AND SERVICE LINES AND ASSOCIATED WATER VALVES. PLUG ALL OPEN ENDS OF ABANDONED WATER LINES. ALL EXISTING VALVE BOXES AND PVC RISERS SHALL BE REMOVED. CHRISTY G-5 VALVE BOXES MAY BE REUSED BY THE CONTRACTOR ON THIS PROJECT. ALL OTHER STYLE BOXES MAY NOT BE REUSED. ALL WATER METERS, BOXES AND LIDS SHALL BE SALVAGED AND REUSED IN THIS PROJECT. IF ANY COMPONENT IS DEEMED NOT TO BE IN SATISFACTORY CONDITION BY THE CITY, A CHANGE ORDER ITEM SHALL BE PREPARED TO COMPENSATE THE CONTRACTOR FOR NEW MATERIALS. THE CONTRACTOR SHALL REMOVE THE ENTIRE PANEL OF CONCRETE BOUND BY COLD JOINTS AND REPLACE CONCRETE, TYPICAL OF ALL METER BOX LOCATIONS IN SIDEWALK, UNLESS NOTED OTHERWISE ON THE PLANS.
 - ALL LINES ABANDONED DURING CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
 - WATER LINE CROSSING UNDER SEWER OR STORM SHALL HAVE COUPLING AND JOINTS GREATER THAN OR EQUAL TO 10 FEET FROM THE CLOSEST EDGE OF EXISTING PIPELINE.
 - WATER LINE CROSSING UNDER SEWER OR STORM SYSTEM SHALL BE DR-14 FOR A MINIMUM OF 10 FEET ON EACH SIDE OF THE CROSSING. SEE CITY STANDARD DETAIL W-14 FOR STANDARD WATER UNDER CROSSING.

CONSTRUCTION NOTES AND SPECIFICATIONS

- SURVEYING**
- CITY BENCHMARK: 23-4-5: U S C & G S BRASS PLUG D942 SOUTH WEST CORNER OF IRRIGATION BOX, SOUTH WEST CORNER OF EAST AVENUE AND BERKELEY AVENUE. ELEVATION: 108.932
 - THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
 - THESE PLANS HAVE BEEN PREPARED WITH THE INTENT THAT GDR ENGINEERING, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE PROJECT. IF GDR ENGINEERING, INC. DOES NOT PERFORM SUCH STAKING, THEN NOTICE IS HEREBY GIVEN THAT GDR ENGINEERING, INC. WILL NOT ASSUME RESPONSIBILITY FOR ERRORS AND OMISSIONS, IF ANY, WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR OTHERWISE RESOLVED HAD GDR ENGINEERING, INC. PERFORMED THE CONSTRUCTION STAKING FOR THE PROJECT.

MISCELLANEOUS

- DUST CONTROL MEASURES SHALL INCLUDE THE FOLLOWING:
 - THE CONTRACTOR IS RESPONSIBLE TO FOLLOW THE (CASQA) BMP'S ASSOCIATED WITH THIS PROJECT.
 - THE CONTRACTOR SHALL OBTAIN A DUST CONTROL PERMIT FROM THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT.
 - MATERIALS TRANSPORTED OFF-SITE SHALL BE COVERED, WETTED, OR 6 INCHES OF FREEBOARD PROVIDED TO LIMIT VISIBLE DUST EMISSIONS.
 - ALL OPERATIONS SHALL LIMIT OR REMOVE THE ACCUMULATION OF MUD OR DIRT FROM ADJACENT PUBLIC STREETS AT THE END OF THE DAY.
 - ALL STORAGE PILES SHALL BE STABILIZED WITH WATER OR CHEMICALS.

GENERAL

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED PLANS AND SPECIFICATIONS AND THE FOLLOWING:
 - CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS.
 - CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS STANDARD SPECIFICATIONS) LATEST EDITION, AS REFERENCED IN THE PLANS AND CITY STANDARDS.
 - CONTRACT CHANGE ORDERS ISSUED BY THE CITY ENGINEER.
- IN ABSENCE OF MORE DETAILED REQUIREMENTS PROVIDED IN PROJECT PLANS AND SPECIFICATIONS AND LOCAL AGENCY STANDARDS, IT IS INTENDED THAT CONSTRUCTION AND INSTALLATION OF MATERIALS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THIS SET OF IMPROVEMENT PLANS IS VALID FOR CONSTRUCTION PURPOSES ONLY AFTER BEING SIGNED BY THE CITY ENGINEER.
- ALL WORK SHALL BE INSPECTED BY THE CITY OF TURLOCK AND CONTRACTOR SHALL REQUEST INSPECTIONS AND TESTING IN ACCORDANCE WITH THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND OTHER DOCUMENTS THAT MAY BE IDENTIFIED BY CITY AND/OR OWNER REGARDING INSPECTION AND TESTING REQUIREMENTS.
- NO WORK SHALL BE STARTED IN THE PUBLIC RIGHT-OF-WAY UNTIL AN ENCRoACHMENT PERMIT IS ISSUED FROM THE CITY OF TURLOCK DEPARTMENT OF PUBLIC WORKS. COSTS OF OBTAINING PERMIT AND COMPLYING WITH CONDITIONS OF PERMIT SHALL BE INCLUDED IN THE BID PRICE FOR THE VARIOUS ITEMS OF WORK INVOLVED.
- UNDERGROUND FACILITIES SHOWN ON THE PLANS WERE LOCATED USING INFORMATION PROVIDED BY UTILITY COMPANIES AND BY MEASURING SURFACE FEATURES. NO ATTEMPT WAS MADE TO LOCATE ANY OTHER UNDERGROUND FACILITIES THAT WERE NOT SHOWN ON UTILITY COMPANY PLANS OR WERE NOT READILY APPARENT FROM INSPECTION OF SURFACE FEATURES. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS TO BE EITHER TRUE OR EXACT.

PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800)227-2600. THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND HAVE THE ORDER NUMBER AVAILABLE TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION.

THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE AND COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO FIELD VERIFY ALL EXISTING IMPROVEMENTS, BOTH HORIZONTALLY AND VERTICALLY, AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES, SO THAT THE LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE VARIOUS ITEMS OF WORK INVOLVED. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE, IN WRITING BY THE ENGINEER, PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH STANDARDS, RULES, REGULATIONS AND ORDERS ESTABLISHED BY THE STATE OF CALIFORNIA AND LOCAL AGENCIES. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC CONVENIENCE AND PUBLIC SAFETY IN ACCORDANCE WITH THE PROVISIONS IN SECTIONS 7-1.03 AND 7-1.04 OF THE CALTRANS STANDARD SPECIFICATIONS. COSTS FOR COMPLYING WITH THESE PROVISIONS SHALL BE INCLUDED IN THE BID PRICE FOR THE VARIOUS ITEMS OF WORK INVOLVED.

THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5 FEET OR MORE. EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATIONS PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY. FOR TRENCHES 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 7-1.02(6) OF THE CALTRANS STANDARD SPECIFICATIONS.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ON THIS SITE, IT IS ADVISED THAT ALL INVOLVED PARTIES REVIEW SECTION 8771 AND SECTION 8725 OF THE BUSINESS AND PROFESSIONS CODE AND SECTION 605 OF THE CALIFORNIA STATE PENAL CODE TO ENSURE THAT MONUMENT CONSERVATION HAS BEEN PROPERLY ADDRESSED.
- IF HUMAN REMAINS ARE FOUND DURING CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CEASE ALL ACTIVITIES AND CONTACT THE OFFICE OF THE NATIVE AMERICAN HERITAGE COMMISSION AT (916) 373-3710 FOR RECOMMENDED PROCEDURES.

CONSTRUCTION GENERAL

- THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PRESCRIBE THE DETAILS FOR THE CONSTRUCTION AND COMPLETION OF THE WORK WHICH THE CONTRACTOR HAS UNDERTAKEN TO PERFORM IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND APPLICABLE STANDARDS. WHERE THE PLANS AND SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL, AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES THAT MAY EXIST IN THE PLANS OR SPECIFICATIONS.

UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT AND INCIDENTALS AND DO ALL WORK INVOLVED IN EXECUTING THE WORK IN A SATISFACTORY AND WORKMANLIKE MANNER.
- THE BIDDER SHALL EXAMINE CAREFULLY THE SITE OF THE WORK CONTEMPLATED, THE PLANS, SPECIFICATIONS AND THE PROPOSAL OR BID FORMS THEREOF. THE SUBMISSION OF A BID SHALL BE CONCLUSIVE EVIDENCE THAT THE BIDDER HAS INVESTIGATED AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED, AS TO THE CHARACTER, QUALITY AND SCOPE OF WORK TO BE PERFORMED, THE QUANTITIES OF MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

IF, DURING THE COURSE OF THEIR EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO BE IN CONFLICT WITH THE INTENT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID.
- THE CONTRACTOR SHALL MAINTAIN A SET OF FULL-SIZED AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL WATER, SEWER AND STORM DRAINAGE PIPING, ELECTRICAL AND MECHANICAL EQUIPMENT, CONDUITS, STRUCTURES AND OTHER FACILITIES. THE AS-BUILT PLANS OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS TO SERVICES, PULL BOXES AND WIRE SIZES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGES OR MODIFICATIONS AND ADJUSTMENT TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION.
- APPROPRIATE DUST CONTROL SHALL BE PROVIDED FOR ALEVATION OR PREVENTION OF DUST NUISANCE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL MAINTAIN DUST CONTROL DURING CONSTRUCTION AND OTHER TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF CITY OF TURLOCK.

THE CONTRACTOR SHALL USE ALL REASONABLE EFFORTS TO OBTAIN NON-POTABLE WATER FOR CONSTRUCTION OR DUST CONTROL PURPOSES.

IF CONSTRUCTION WATER WILL BE OBTAINED FROM THE CITY'S FIRE HYDRANT(S), A FIRE HYDRANT USE PERMIT APPLICATION MUST BE SUBMITTED AND APPROVED BY THE CITY OF TURLOCK. FEES, DEPOSITS, AND WATER RATES ARE LISTED ON THE APPLICATION.
- IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED, RELOCATED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN CONSTRUCTION AND REMOVAL OPERATIONS TO PROTECT EXISTING IMPROVEMENTS AND UTILITIES, ADJACENT PROPERTY, INCLUDING LAWN, SHRUBBERY, TREES, IRRIGATION FACILITIES, ETC., SO AS NOT TO REMOVE, BREAK, OR DAMAGE ANY IMPROVEMENT OR FACILITY. ANY IMPROVEMENT OR FACILITY THAT IS REMOVED, BROKEN, DAMAGED BY ACTION OF THE CONTRACTOR EITHER THROUGH HIS NEGLIGENCE OR OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COSTS RESULTING FROM ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND ENGINEER.
- ALL PRE-EXISTING SEWER LATERALS AND STORM DRAIN LINES SHALL BE VIDEO INSPECTED TO ENSURE THAT THE LINES ARE CLEAR OF ANY DEBRIS AND THAT THEY ARE NOT DAMAGED.
- MONUMENT PRESERVATION & PROTECTION:

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY MONUMENTATION AND REFERENCE POINTS WHICH MAY BE LOST OR DISTURBED AS A RESULT OF THE WORK DONE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF MONUMENTATION WHICH MAY BE DISTURBED. HE SHALL BE RESPONSIBLE FOR THE PRESERVATION AND/OR REPLACEMENT OF ALL SUCH MONUMENTATION IN COMPLIANCE WITH 8771 OF THE BUSINESS AND PROFESSIONS CODE AND SECTION 732.5, 1492.5 AND 1080.5 OF THE CALIFORNIA STREETS AND HIGHWAY CODE. THE CITY SHALL EMPLOY A LICENSED SURVEYOR TO SET TIES TO ANY MONUMENTS THAT MAY BE DISTURBED OR LOST DURING THE COURSE OF WORK PERFORMED. SUCH TIES SHALL BE SET IN LOCATIONS THAT WILL NOT OTHERWISE BE DISTURBED. THE CONTRACTOR SHALL BEAR ALL COST OF THE SURVEY, RE-SURVEY, REFERENCE TIES, REPLACEMENT CORNERS, CORNER RECORDS, MAPPING, CHECKING AND RECORDING FEES WHICH MAY BE REQUIRED AS A RESULT OF LOSS OR DISTURBANCE OF MONUMENTATION WHICH MAY OCCUR DURING THE COURSE OF THE WORK PERFORMED.

NOTE:
LETTERS ARE SENT TO LOCAL UTILITY COMPANIES TO REQUEST EXISTING UNDERGROUND FACILITY INFORMATION INCLUDING LOCATION AND SIZE.

NOTE BELOW INDICATES STATUS OF INFORMATION RECEIVED FROM THE RESPECTIVE AGENCIES.

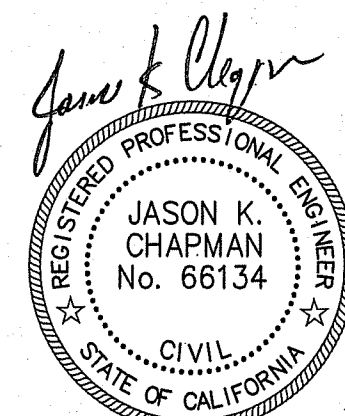
UTILITY COMPANIES:
PACIFIC GAS & ELECTRIC COMPANY
ATTN: DELINEATIONMAPREQUESTS@PGE.COM
ATTN: RICH WALLACE
3185 M STREET
MERCED, CA 95348
(RECEIVED RESPONSE)

AT&T
ATTN: DAWN SIBLEY
1116 M STREET
MODESTO, CA 95354
(RECEIVED RESPONSE)

CHARTER SPECTRUM
ATTN: ORLANDO SOLIZ
773 N WALNUT
TURLOCK, CA 95380
(DID NOT RECEIVE RESPONSE)

TURLOCK IRRIGATION DISTRICT
ATTN: TODD TROGLIN
P. O. BOX 949
PHYSICAL ADDRESS: 333 EAST CANAL DRIVE
TURLOCK, CA 95381
(RECEIVED RESPONSE)

TURLOCK IRRIGATION DEPARTMENT
ATTN: DAVID FORNATH
P. O. BOX 949
PHYSICAL ADDRESS: 333 EAST CANAL DRIVE
TURLOCK, CA 95381
(RECEIVED RESPONSE)



3/18/2024
DATE SIGNED:

PIPE SCHEDULE	
DESCRIPTION	TYPE OF PIPE
WATER (6" THROUGH 60")	POLYVINYL CHLORIDE PIPE (PVC), C900-16, PC235, DR18
WATER (6" THROUGH 12") SPECIAL CLASS	POLYVINYL CHLORIDE PIPE (PVC), C900-16, PC315, DR14
WATER WITHIN 10' OF SD OR SS	WRAP PIPE WITH POLYETHYLENE FILM PER AWWA C105

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS REQUIRED BY THE CITY OF TURLOCK FOR WORK PERFORMED IN THE PUBLIC RIGHT OF WAY.

APPROVAL OF THESE PLANS DOES NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION THE PUBLIC INTEREST REQUIRES A MODIFICATION OR A DEPARTURE FROM THE CITY SPECIFICATIONS, OR THE APPROVED PLANS, THE CITY SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS MADE.

- THIS SET OF IMPROVEMENT PLANS IS VALID FOR CONSTRUCTION PURPOSES ONLY AFTER THEY HAVE BEEN SIGNED BY THE CITY ENGINEER.
- ALL CONTRACTORS INVOLVED IN THE CONSTRUCTION OF THIS PROJECT SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE ARRANGED BY THE CITY AT THE ENGINEERING SERVICES DEPARTMENT FOR CONSTRUCTION AND INSPECTION COORDINATION.
- THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS ARE MADE A PART OF THESE PLANS. CURRENT STANDARDS AND SPECIFICATIONS SHALL BE KEPT ON SITE DURING CONSTRUCTION.
- AN ENCRoACHMENT PERMIT IS REQUIRED AND MUST BE OBTAINED BEFORE WORK CAN BE STARTED IN THE PUBLIC RIGHT-OF-WAY.

CAUTION:
UNAUTHORIZED CHANGES AND USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY ENGINEER.

GDR ENGINEERING, INC.
ENGINEERING/SURVEYING/PLANNING
3525 MITCHELL ROAD, SUITE G CERES, CA 95307
TELEPHONE: (209) 538-3360 FAX: (209) 538-7370
E-MAIL: GDRENGINEERING@GDRENGR.COM

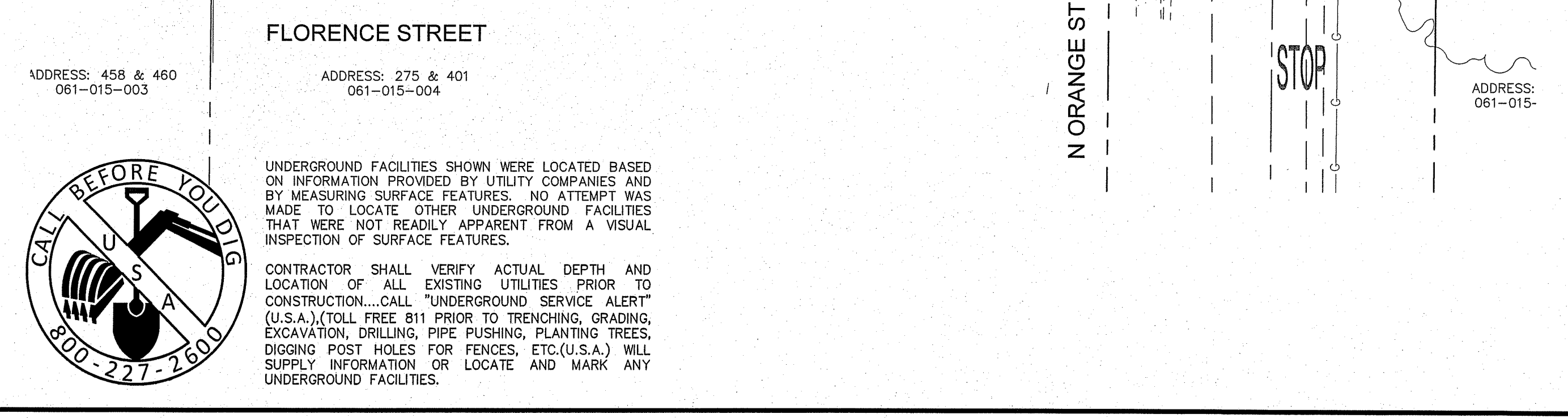
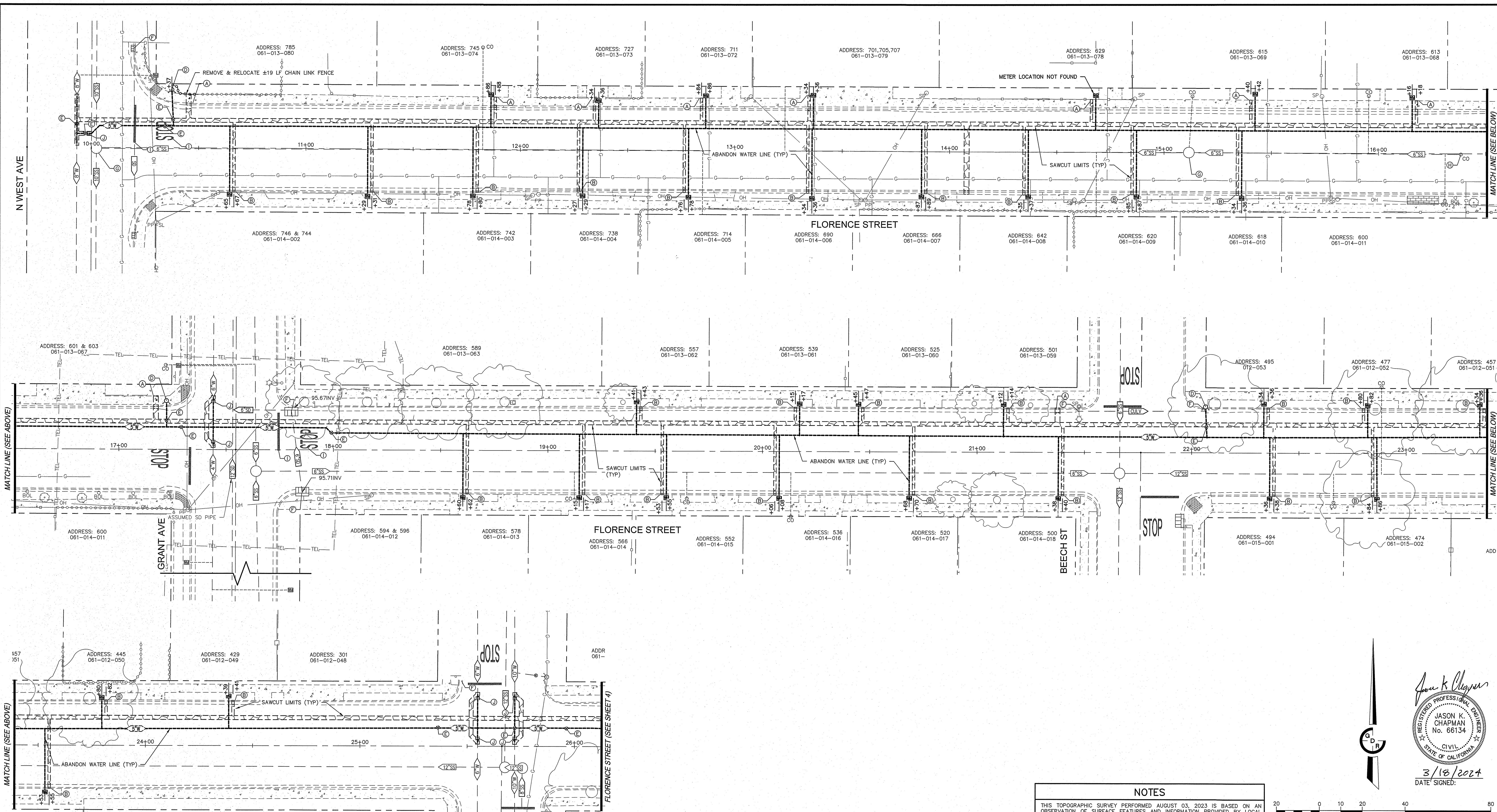
CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
GENERAL NOTES

SCALE: NOT TO SCALE	DATE: 03/18/2024
DWG No. 2305205GN.dwg	LAYOUT: 2-NOTE
DRAWN: JA	SHEET: 2 OF 21
CHECKED:	FILE No. 23052



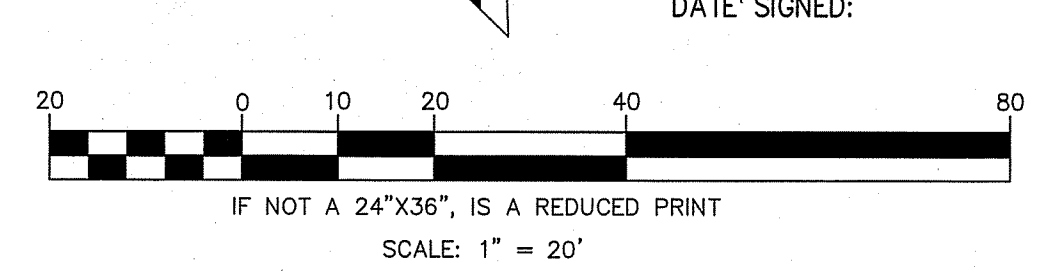
UNDERGROUND FACILITIES SHOWN WERE LOCATED BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES AND BY MEASURING SURFACE FEATURES. NO ATTEMPT WAS MADE TO LOCATE OTHER UNDERGROUND FACILITIES THAT WERE NOT READILY APPARENT FROM A VISUAL INSPECTION OF SURFACE FEATURES.

CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.), TOLL FREE 811 PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, PIPE PUSHING, PLANTING TREES, DIGGING POST HOLES FOR FENCES, ETC.(U.S.A.) WILL SUPPLY INFORMATION OR LOCATE AND MARK ANY UNDERGROUND FACILITIES.

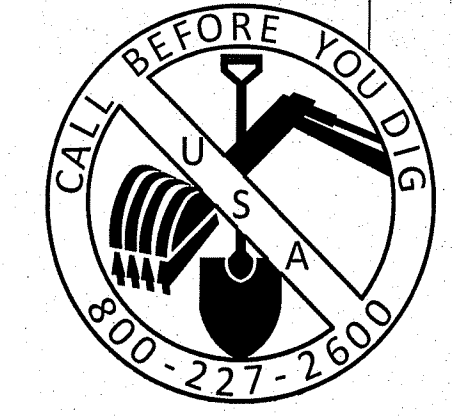


- NOTE:**
- CONTRACTOR SHALL POTHOLE & VERIFY UTILITY POINTS OF CONNECTION PRIOR TO BEGINNING WORK.
 - WATER SERVICE ABANDONMENT. (SEE DETAIL 1 SHEET 20)
 - FIRE HYDRANT ABANDONMENT. (SEE DETAIL 2 SHEET 20)
 - ALL G-4 WATER BOXES SHALL BE REMOVED ON ABANDONED WATER PIPES. ANY EXISTING G-5 WATER BOXES IN USABLE CONDITION SHALL BE REUSED FOR PROPOSED WATER VALVE LOCATIONS.
 - PROTECT ALL TREES, POWER POLES, ELECTROLES, DRAIN INLETS, CATCH BASINS & UNDER GROUND UTILITIES IN-PLACE.
 - CONTRACTOR SHALL REMOVE ENTIRE PANEL OF CONCRETE TO NEAREST COLD JOINT AND REPLACE CONCRETE (TYPICAL) OF ALL METER BOX & FIRE HYDRANT LOCATIONS IN SIDEWALK. IF THE EXISTING METER BOX IS IN THE SIDEWALK, RELOCATE TO EITHER BACK OF WALK OR CLOSEST PARK STRIP.
 - CONTRACTOR IS REQUIRED TO HAND DIG TO EXPOSE SIDE OF EXISTING WATER MAIN ALONG NEW WATER MAIN TRENCH TO ESTABLISH EXISTING WATER MAIN ELEVATION IN ORDER TO INSTALL PROPOSED WATER MAIN AT THE 36" MINIMUM COVER.
 - EXISTING WATER MAIN TO BE ABANDONED IN PLACE. CUT AND CAP ALL PIPE ENDS. SLURRY FILL WATER MAIN SIZES 4" AND GREATER.
- DEMOLITION LEGEND:**
- (A) R & D CURB, GUTTER AND SIDEWALK
 - (B) R & D CURB OR CURB & GUTTER
 - (C) R & D SIDEWALK
 - (D) REMOVE FIRE HYDRANT AND RETURN TO CITY CORP. YARD.
 - (E) R & D TYPE G-5 WATER BOX.
 - (F) PROTECT DRAIN INLET & CATCH BASIN IN-PLACE, INLET PROTECTION FOR EROSION CONTROL.
 - (G) PROTECT MANHOLE IN-PLACE.
 - (H) PROTECT CLEANOUT IN-PLACE.
 - (I) R & R STRIPING/PAVEMENT MARKINGS
 - (J) CUT AND CAP PIPE END
- (K) TRENCH PATCH WITHIN SAWCUT. SEE TRENCH PATCH DETAILS T-1 THRU T-5
- SAWCUT LIMITS

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CAUTION: UNAUTHORIZED CHANGES AND USES		
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DESCRIPTION	DATE	BY



Jason K. Chapman
 JASON K. CHAPMAN
 No. 66134
 CIVIL
 STATE OF CALIFORNIA
 3/18/2024
 DATE SIGNED:



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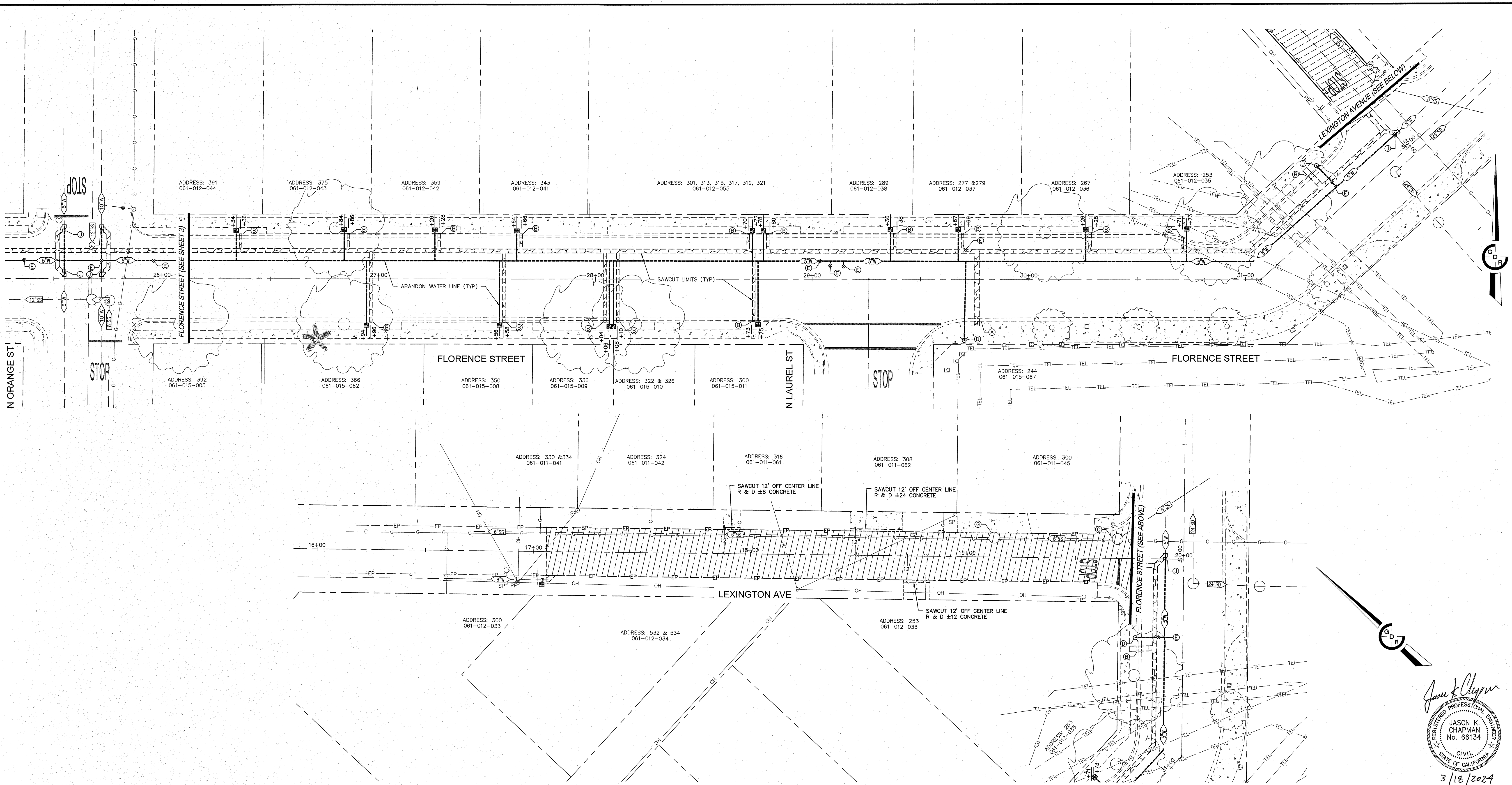
GDR ENGINEERING, INC.
ENGINEERING/SURVEYING/PLANNING
3525 MITCHELL ROAD, SUITE G CERES, CA 95307
TELEPHONE: (209) 538-3360 FAX: (209) 538-7370
E-MAIL: GDRENGINEERING@GDRRENGR.COM

**CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
FLORENCE ST TOPOGRAPHIC & DEMOLITION**

SCALE: AS NOTED DATE: 03/18/2024

DWG No. 23052DSGN.dwg LAYOUT 3-TD SHEET 3 OF 21
DRAWN: JA FILE NO. 23052
CHECKED: _____

G:\23052_Turlock_City_Project_No_23-040_Water_Main_Replacement\DRAWINGS\ENGINEERING FILES AND DRAWINGS\DRAWINGS\23052DSGN.dwg PLOT Mar 18, 2024 AT 6:54AM



Jason K. Chapman
 REGISTERED PROFESSIONAL ENGINEER
 JASON K. CHAPMAN
 No. 66134
 CIVIL
 STATE OF CALIFORNIA
 3/18/2024
 DATE SIGNED:

- NOTE:**
- CONTRACTOR SHALL POT HOLE & VERIFY UTILITY POINTS OF CONNECTION PRIOR TO BEGINNING WORK.
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 R & D EXISTING ROADWAY PAVING SECTION
 SAWCUT LIMITS

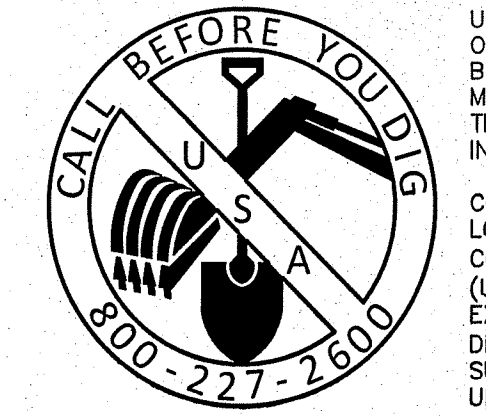
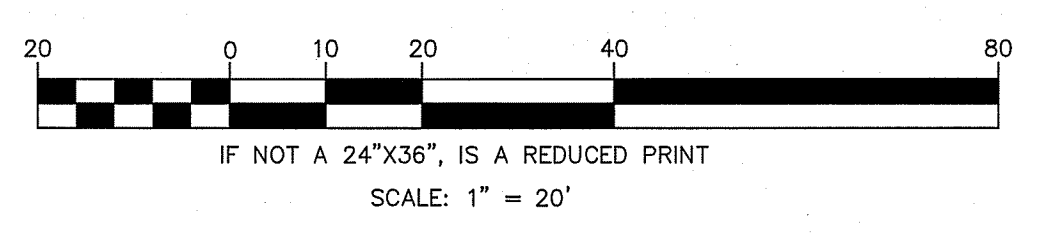
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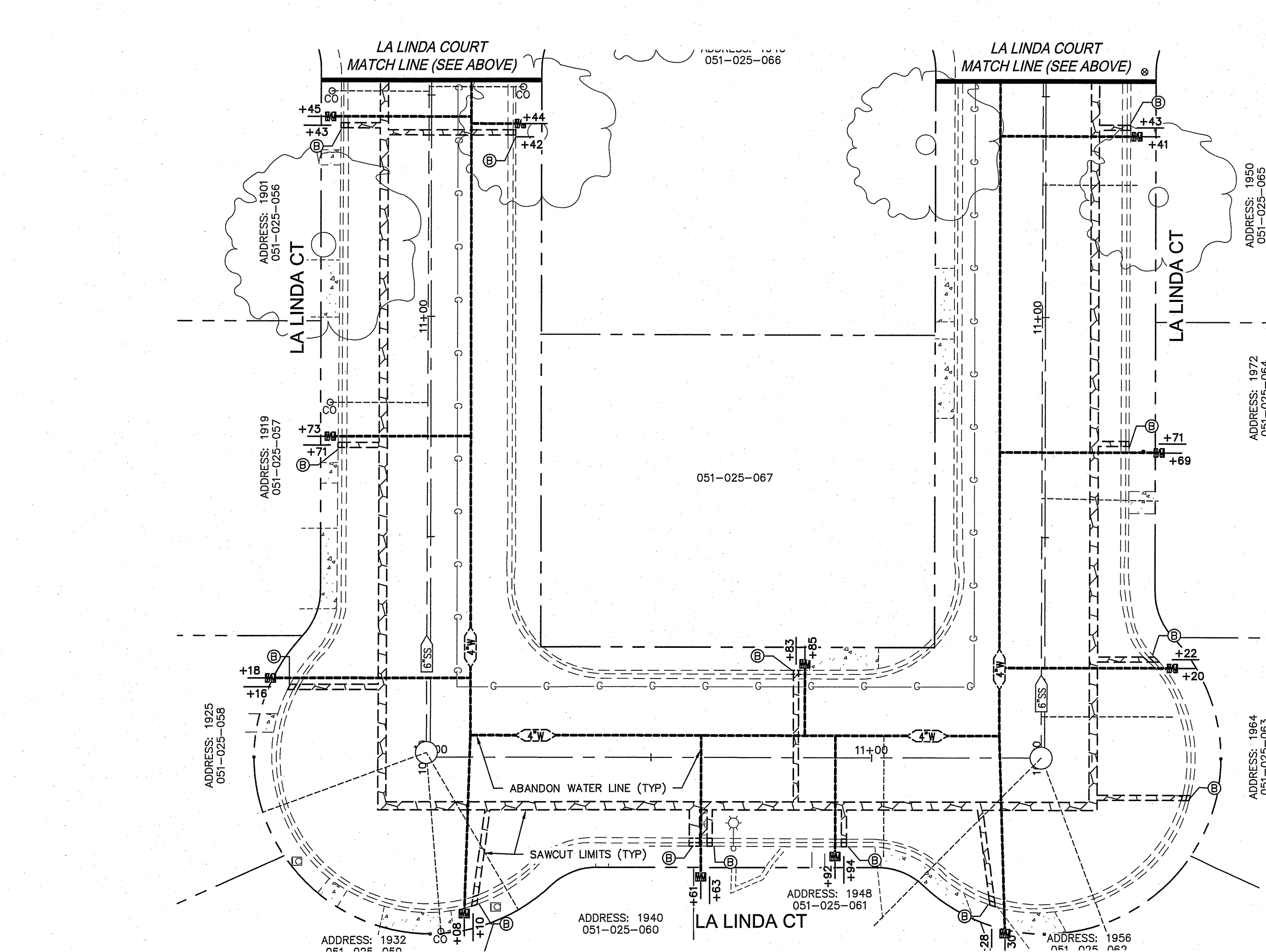
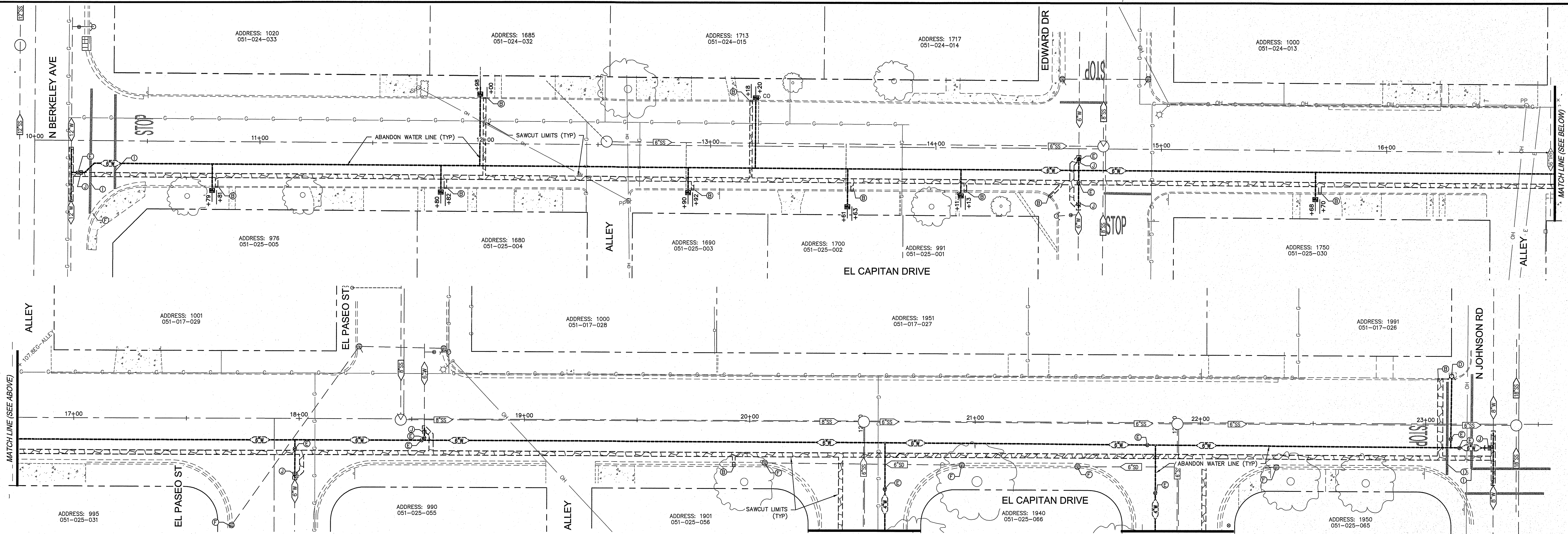
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GDR ENGINEERING, INC.
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CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 FLORENCE ST TOPOGRAPHIC & DEMOLITION

SCALE: AS NOTED DATE: 03/18/2024
 DWG NO. 230520SGN.dwg LAYOUT: 4-TD SHEET: 4 OF 21
 DRAWN: JA CHECKED: FILE NO. 23052

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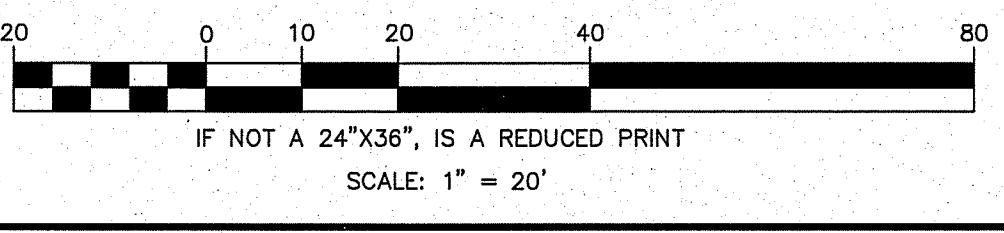
Jason K. Chapman

REGISTERED PROFESSIONAL ENGINEER
JASON K. CHAPMAN
No. 66134
CIVIL
STATE OF CALIFORNIA

3/21/2024
DATE SIGNED:

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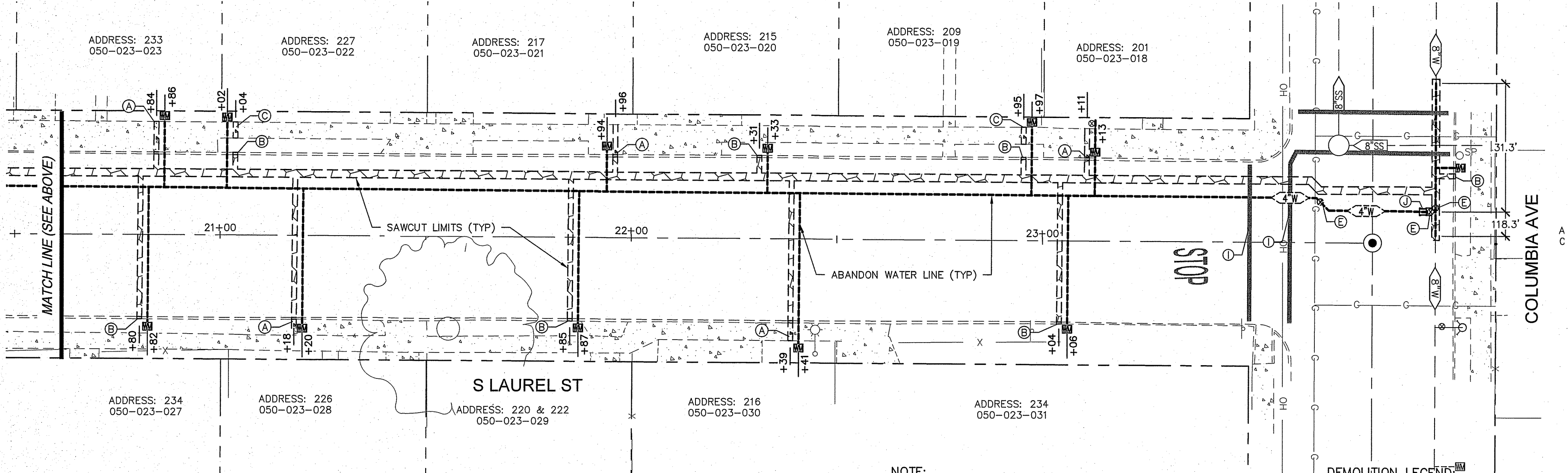
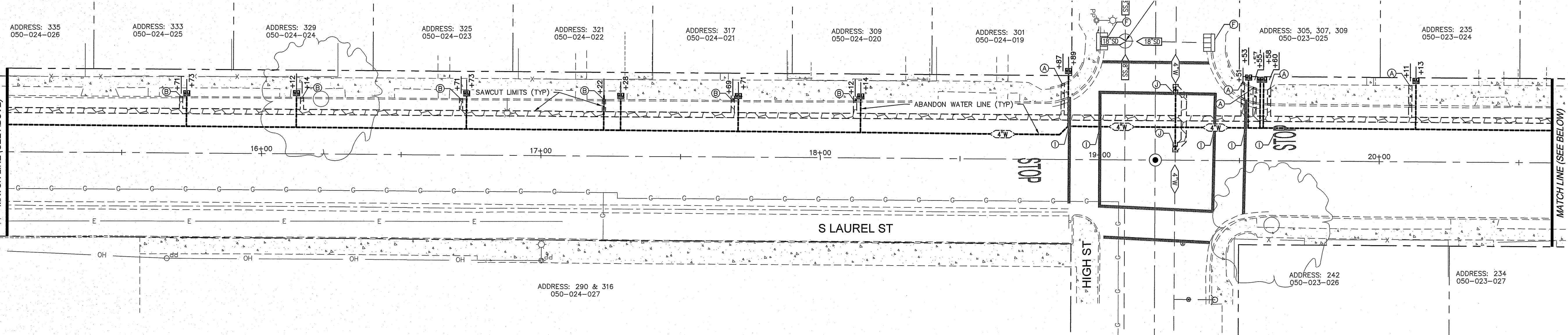
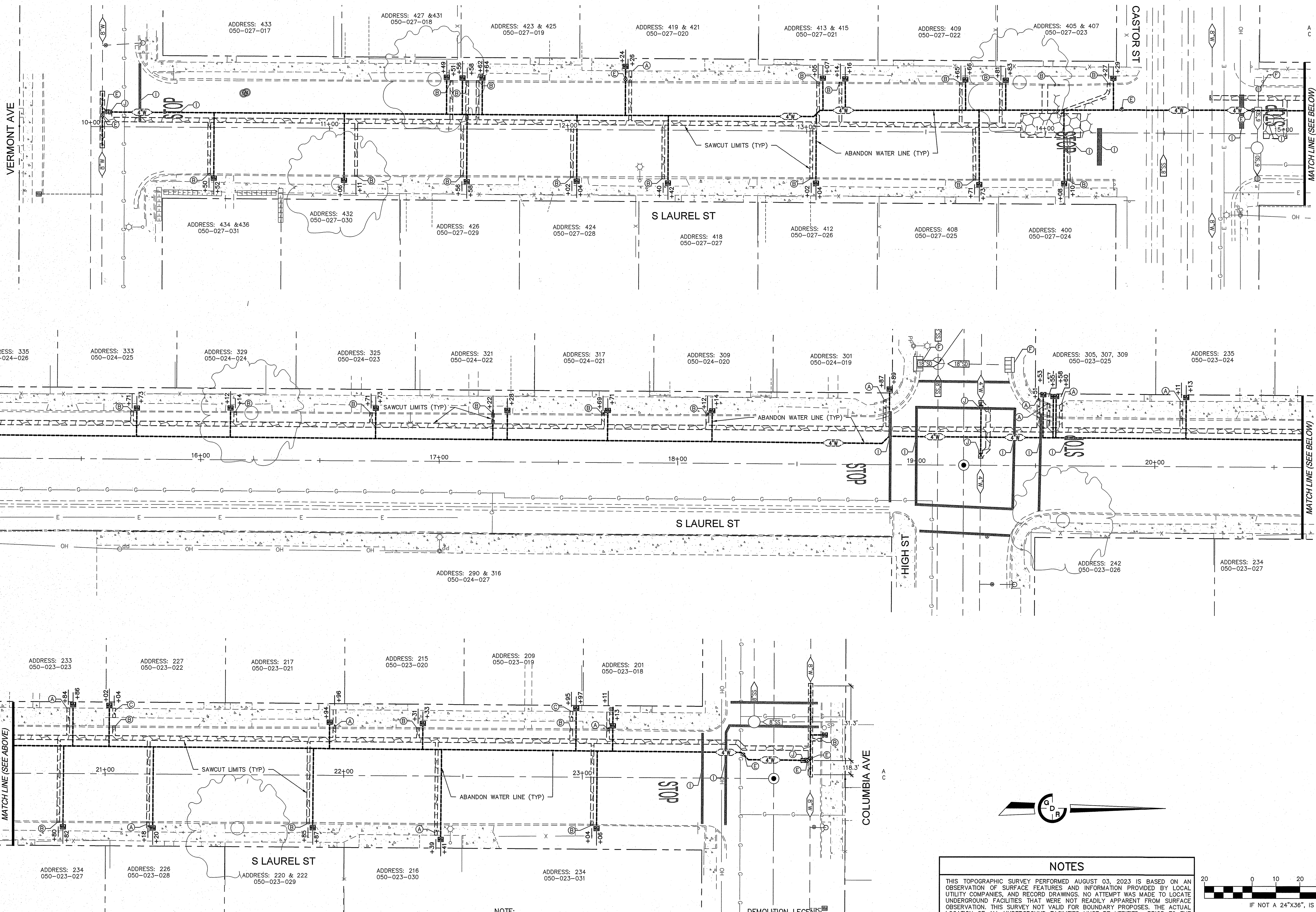
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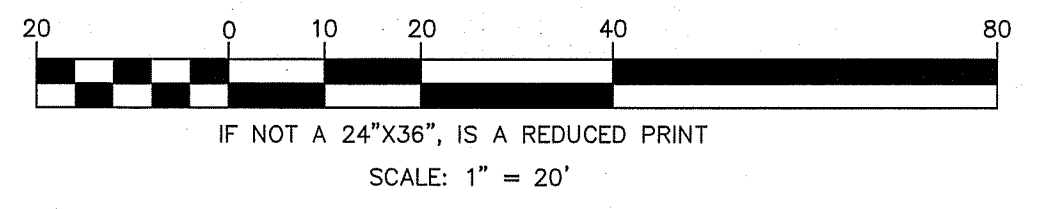
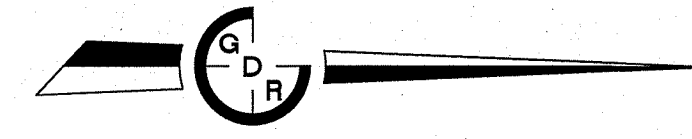
GDR ENGINEERING, INC.
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CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
EL CAPITAN DR & LA LINDA CT TOPOGRAPHIC & DEMOLITION

SCALE: AS NOTED DATE: 03/18/2024
DWG NO: 230520SGN.dwg LAYOUT: 5-TD SHEET: 5 OF 21
DRAWN: JA CHECKED: FILE NO: 23052



Jason K. Chapman
 REGISTERED PROFESSIONAL ENGINEER
 JASON K. CHAPMAN
 No. 66134
 CIVIL
 STATE OF CALIFORNIA
 3/18/2024
 DATE SIGNED:



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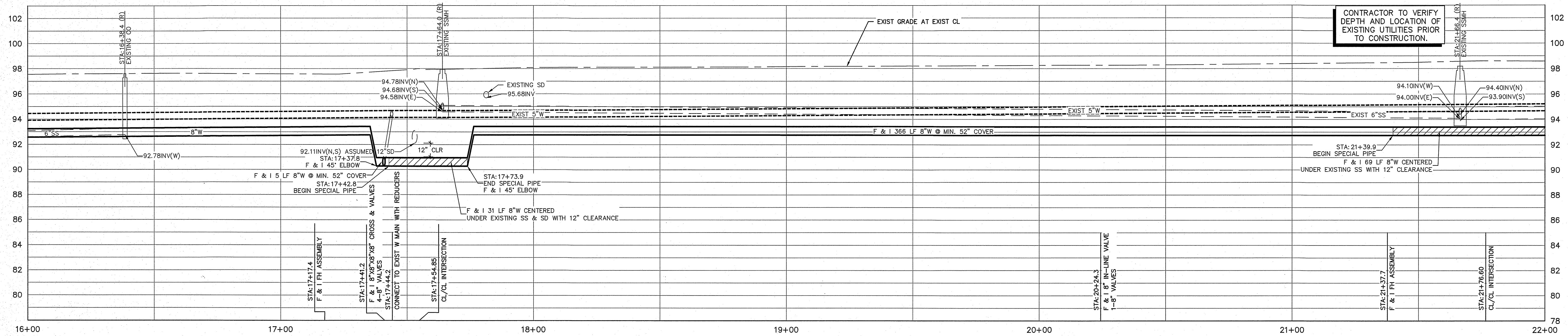
CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 S LAUREL AVE TOPOGRAPHIC & DEMOLITION

SCALE: AS NOTED DATE: 03/18/2024
 DWG No. 23052DSGN.dwg LAYOUT: S-TD SHEET: 6 of 21
 DRAWN: JA CHECKED: BY FILE NO.: 23052

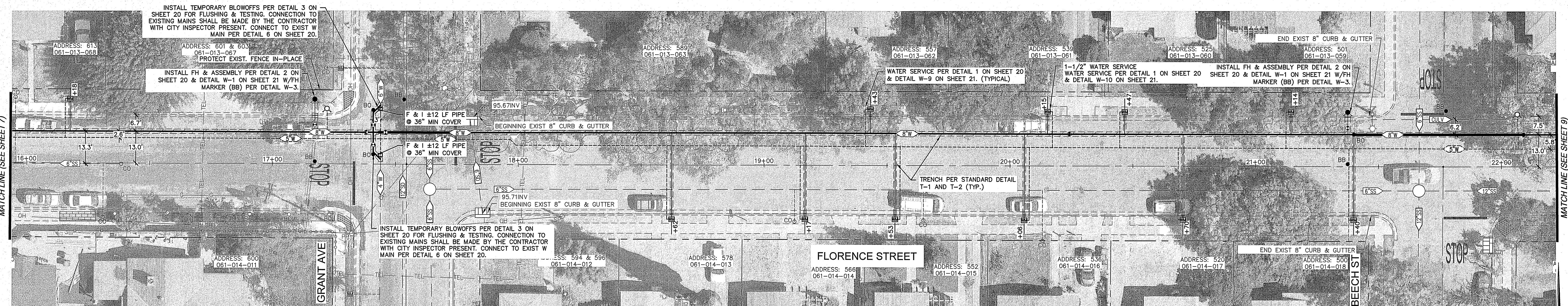


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CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.



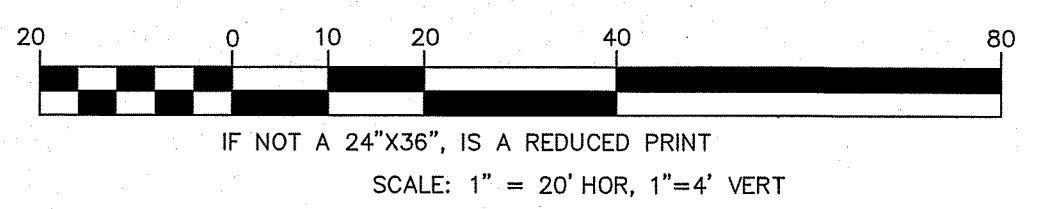
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 - WHERE CURBS ARE IDENTIFIED AS 8", CURB STOPS SHALL VARY BETWEEN 8" TO 12" FROM BOTTOM OF LID.
- PAVING LEGEND:**
- TRENCH PATCH & GRINDING
 - SEE TRENCH PATCH DETAIL T-1 AND T-2



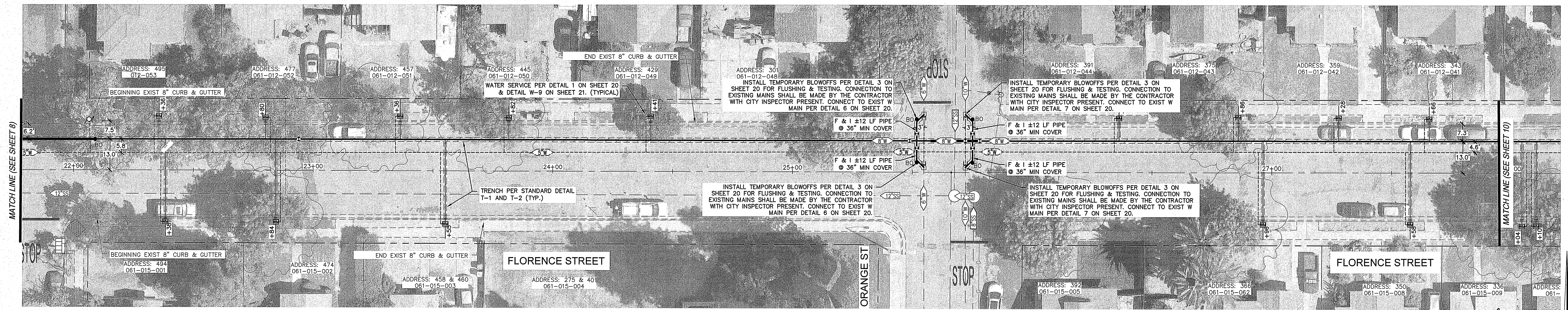
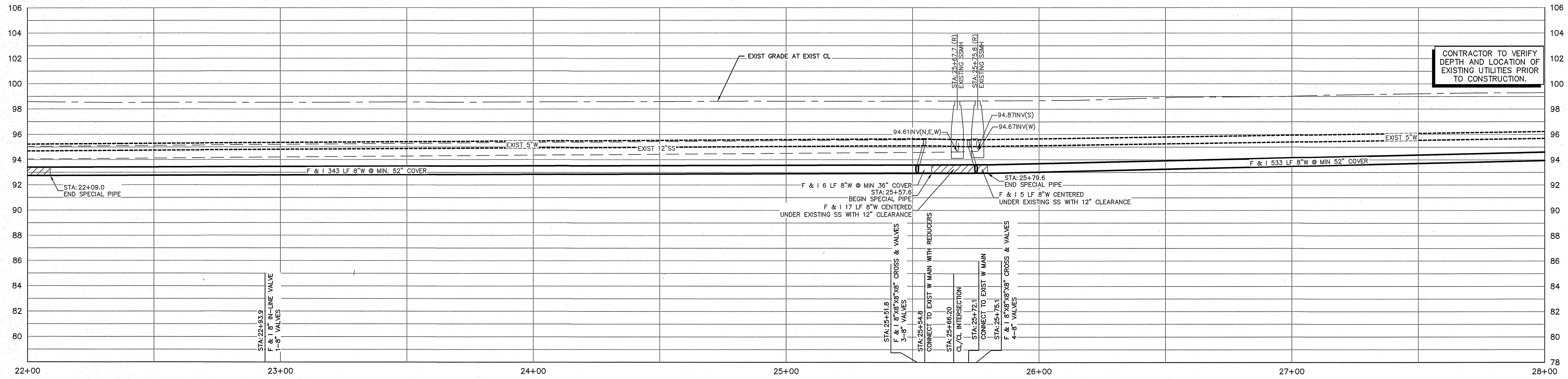
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CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 FLORENCE STREET PLAN AND PROFILE

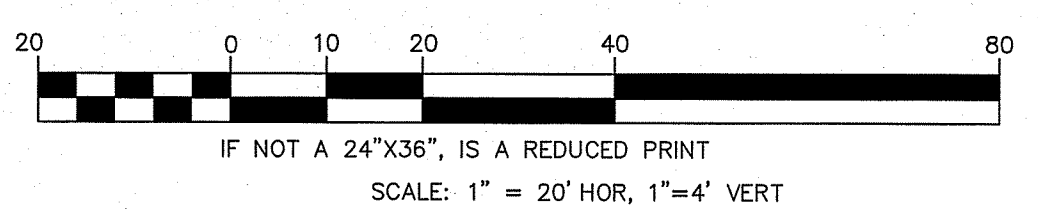
SCALE: AS NOTED DATE: 03/18/2024
 DWG No. 23052DSON.dwg LAYOUT: B-PP SHEET: 8 of 21
 DRAWN: JA CHECKED: FILE NO. 23052



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 DATE SIGNED:

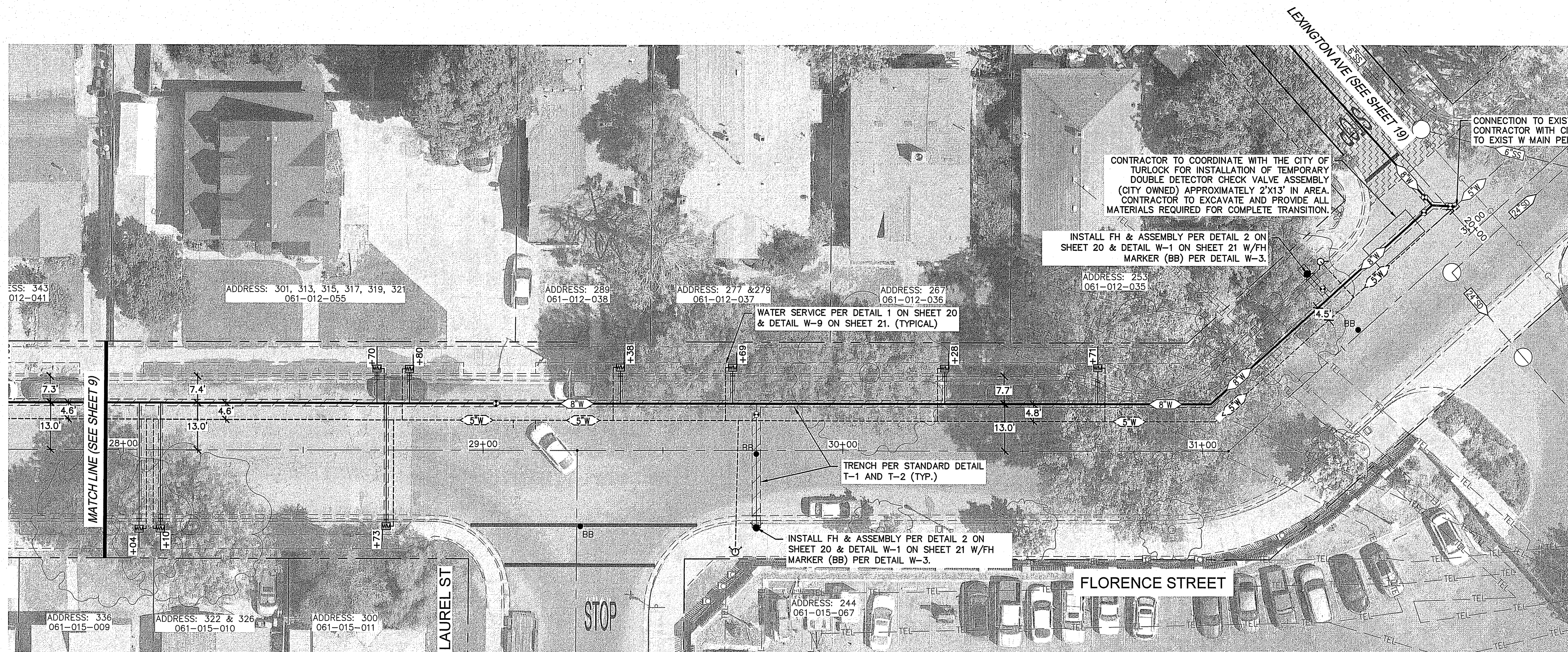
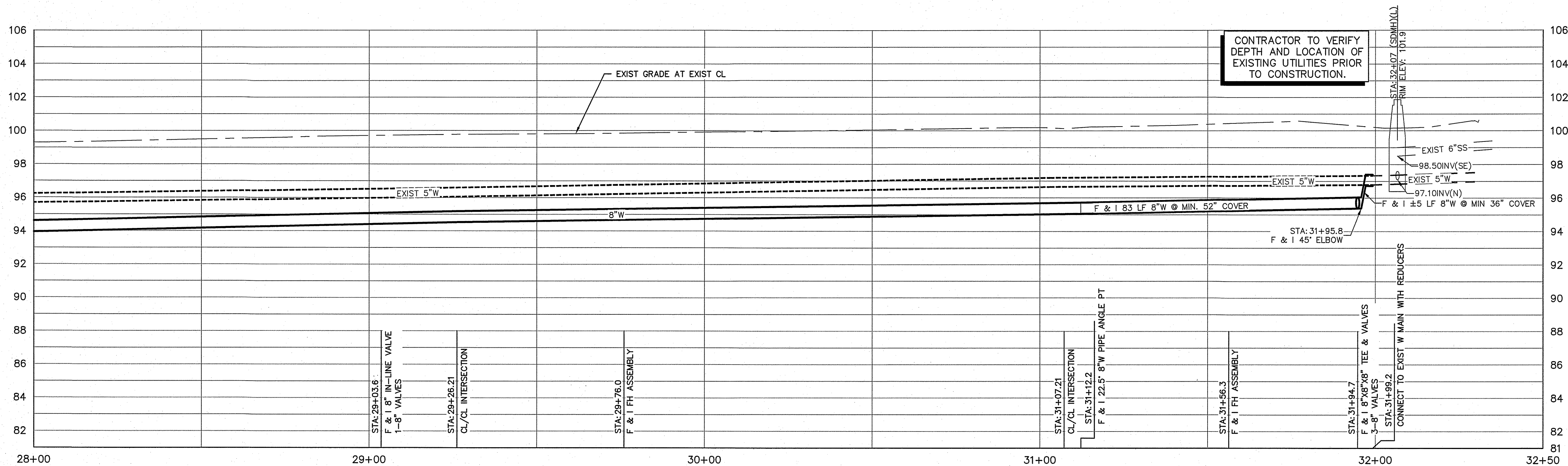
CAUTION: UNAUTHORIZED CHANGES AND USES	
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DESCRIPTION	DATE BY

GDR ENGINEERING, INC.
 ENGINEERING/SURVEYING/PLANNING
 3525 MITCHELL ROAD, SUITE G CERES, CA 95307
 TELEPHONE: (209) 538-3360 FAX: (209) 538-7370
 E-MAIL: GDRENGINEERING@GDRENGR.COM

CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
FLORENCE STREET PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024
 DWG NO. 23052DSGN.dwg LAYOUT 9-PP SHEET 9 OF 21
 DRAWN: JA CHECKED: DATE: FILE NO. 23052

G:\23052_Turlock City Project No. 23-040_Water Main Replacement\ENGINEERING FILES AND DRAWINGS\DRAWINGS\23052DSGN.dwg PLOT Mar 18, 2024 AT 6:55AM



Jason K. Chapman

 REGISTERED PROFESSIONAL ENGINEER

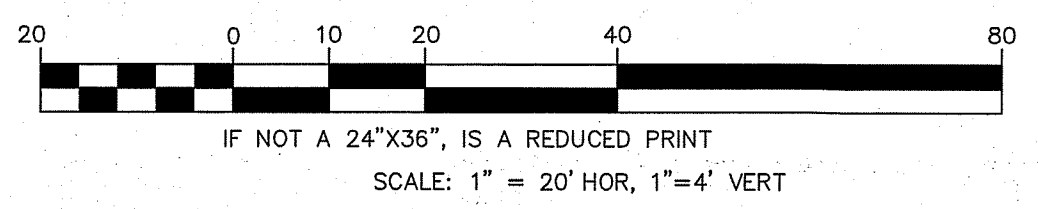
 CIVIL

 STATE OF CALIFORNIA

 No. 66134

 3/18/2024

 DATE SIGNED:



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PAVING LEGEND:

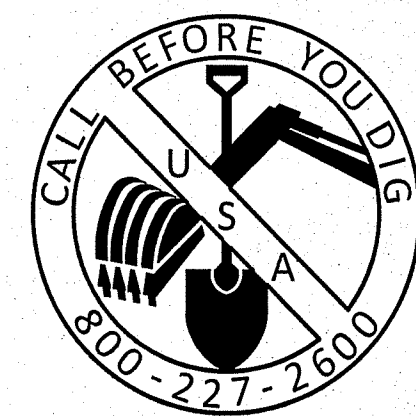
	TRENCH PATCH & GRINDING
	SEE TRENCH PATCH DETAIL T-1 AND T-2
	FULL PAVEMENT SECTION PER CITY STANDARD ST-1
	3" ASPHALTIC CONCRETE OVER 6" AGGREGATE BASE @ 95% RELATIVE COMPACTION OVER 6" RECOMPACTED NATIVE SOIL

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 E-MAIL: GDRENGINEERING@DRENGR.COM

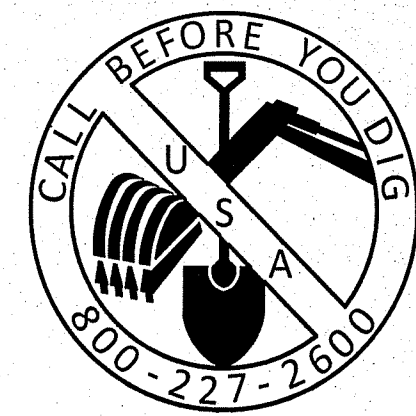
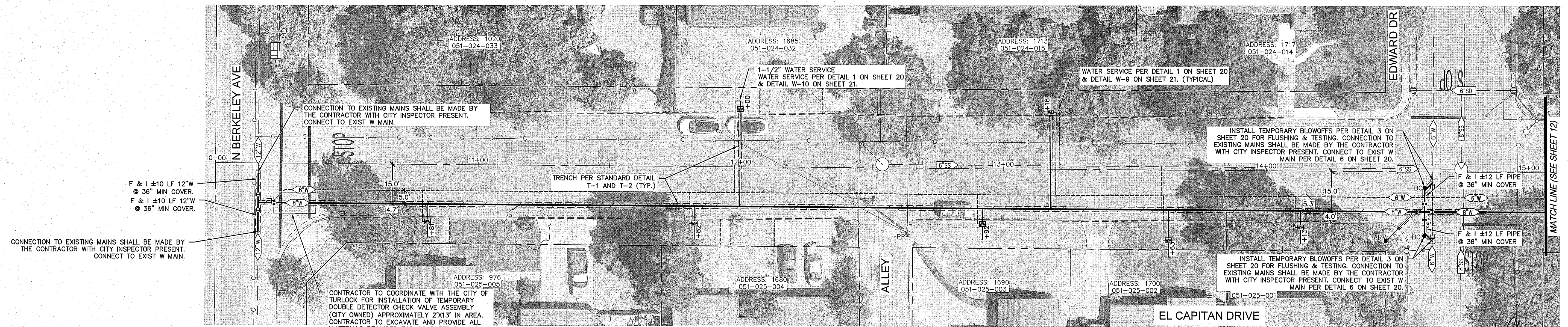
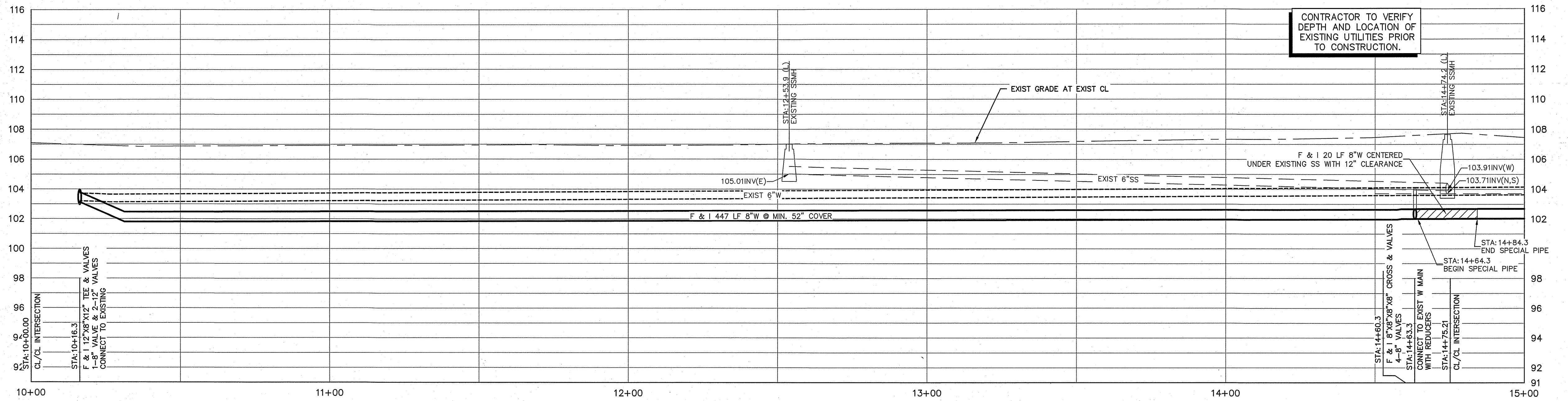
CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 FLORENCE STREET PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024
 DWG NO. 23052DSGN.dwg LAYOUT_10-PP SHEET 10 of 21
 DRAWN: JA CHECKED: FILE NO. 23052



UNDERGROUND FACILITIES SHOWN WERE LOCATED BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES AND BY MEASURING SURFACE FEATURES. NO ATTEMPT WAS MADE TO LOCATE OTHER UNDERGROUND FACILITIES THAT WERE NOT READILY APPARENT FROM A VISUAL INSPECTION OF SURFACE FEATURES.

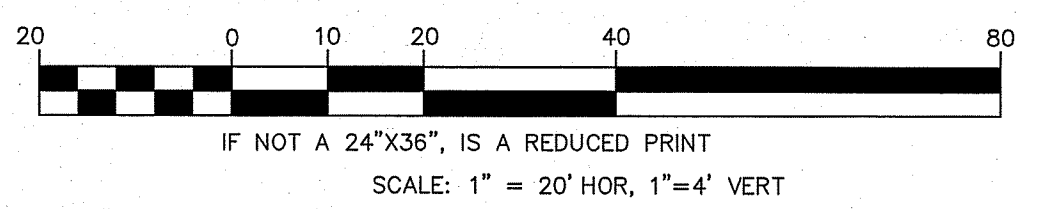
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Jason K. Chapman
 REGISTERED PROFESSIONAL ENGINEER
 JASON K. CHAPMAN
 No. 66134
 CIVIL
 STATE OF CALIFORNIA
 3/18/2024
 DATE SIGNED:

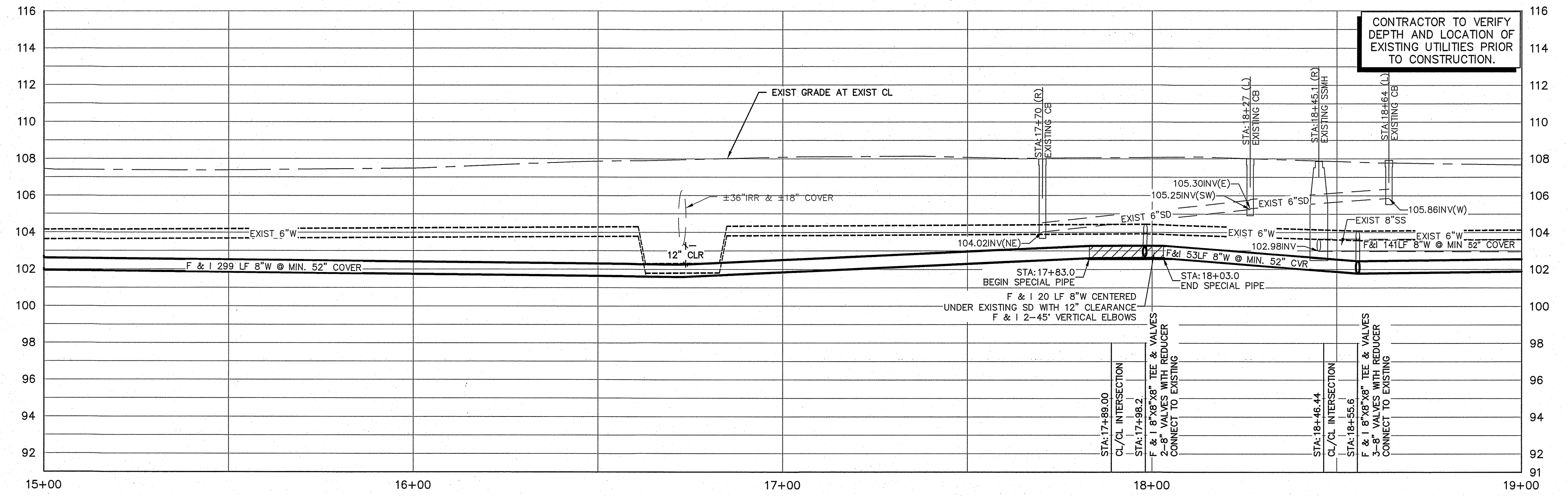
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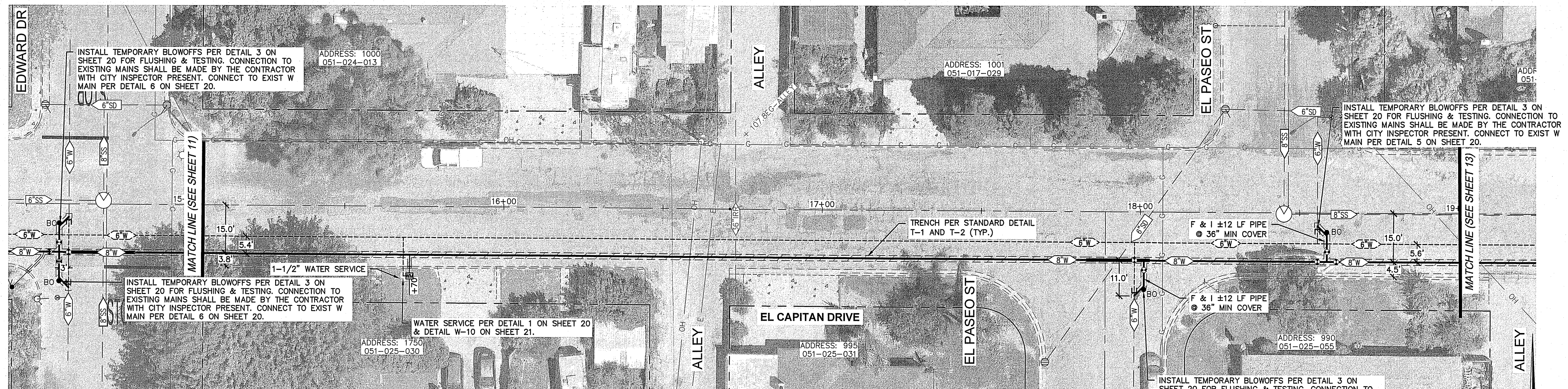
CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 EL CAPITAN DRIVE PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024
 DWG No. 23052DSGN.dwg Layout: 11-PP SHEET: 11 OF 21
 DRAWN: JA CHECKED: FILE NO.: 23052

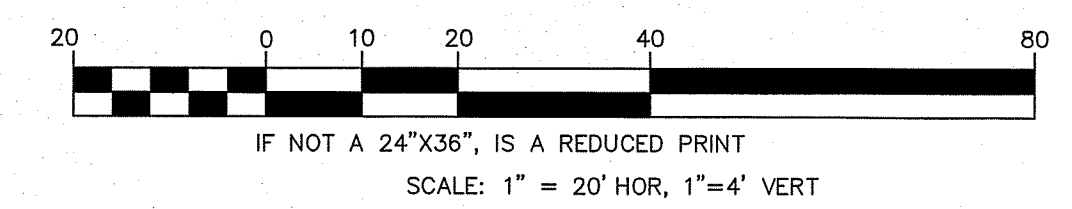
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CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.



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 JASON K. CHAPMAN
 No. 66134
 CIVIL
 STATE OF CALIFORNIA
 3/18/2024
 DATE SIGNED:



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CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 EL CAPITAN DRIVE PLAN AND PROFILE

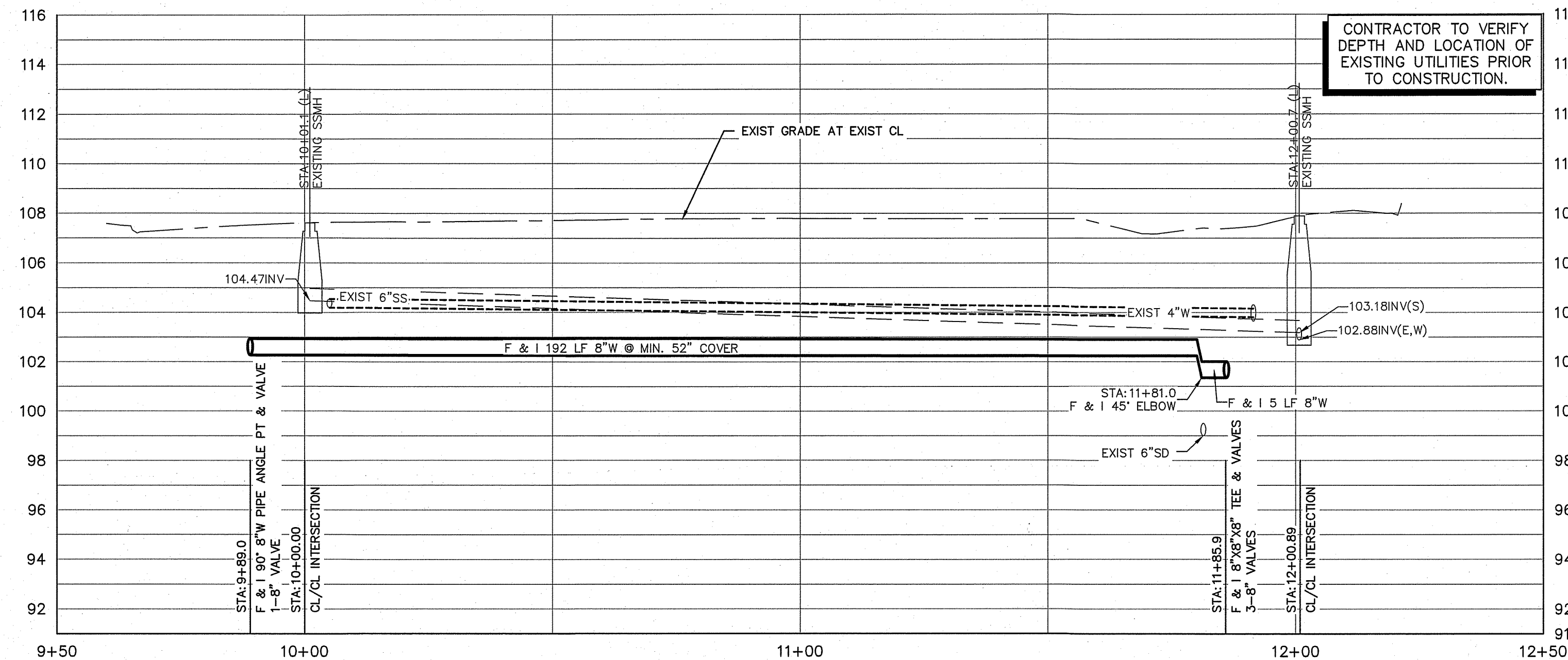
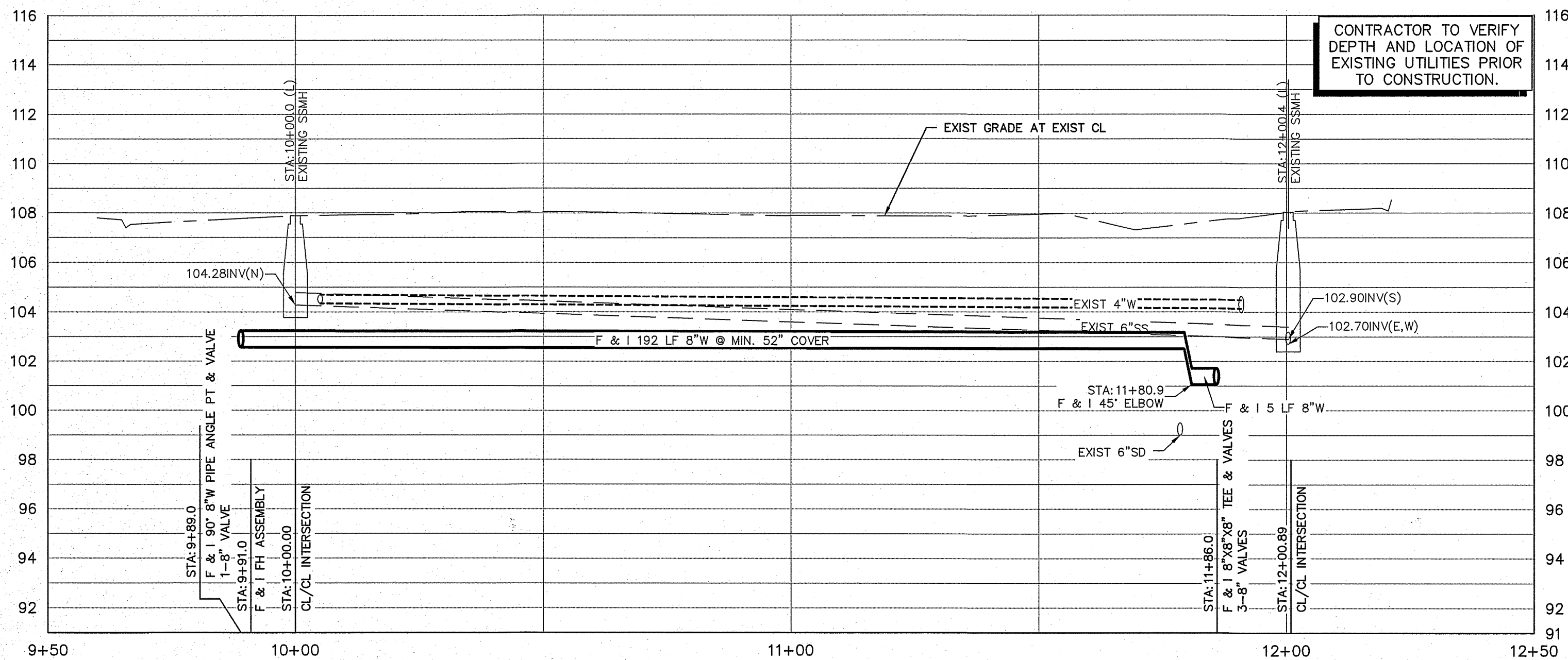
SCALE: AS NOTED DATE: 03/16/2024
 DWG No. 23052DSGN.dwg LAYOUT: 12-PP SHEET: 12 of 21
 DRAWN: JA CHECKED: FILE NO.: 23052



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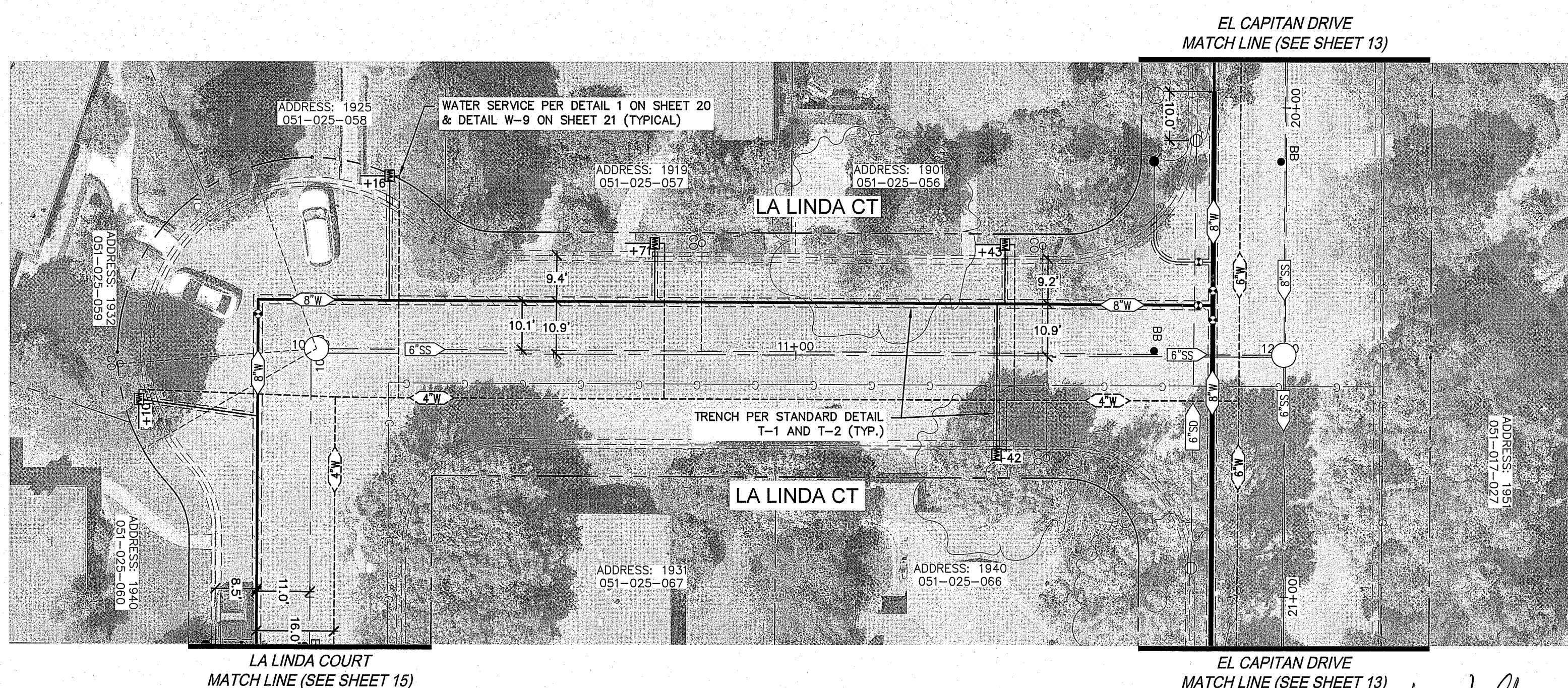
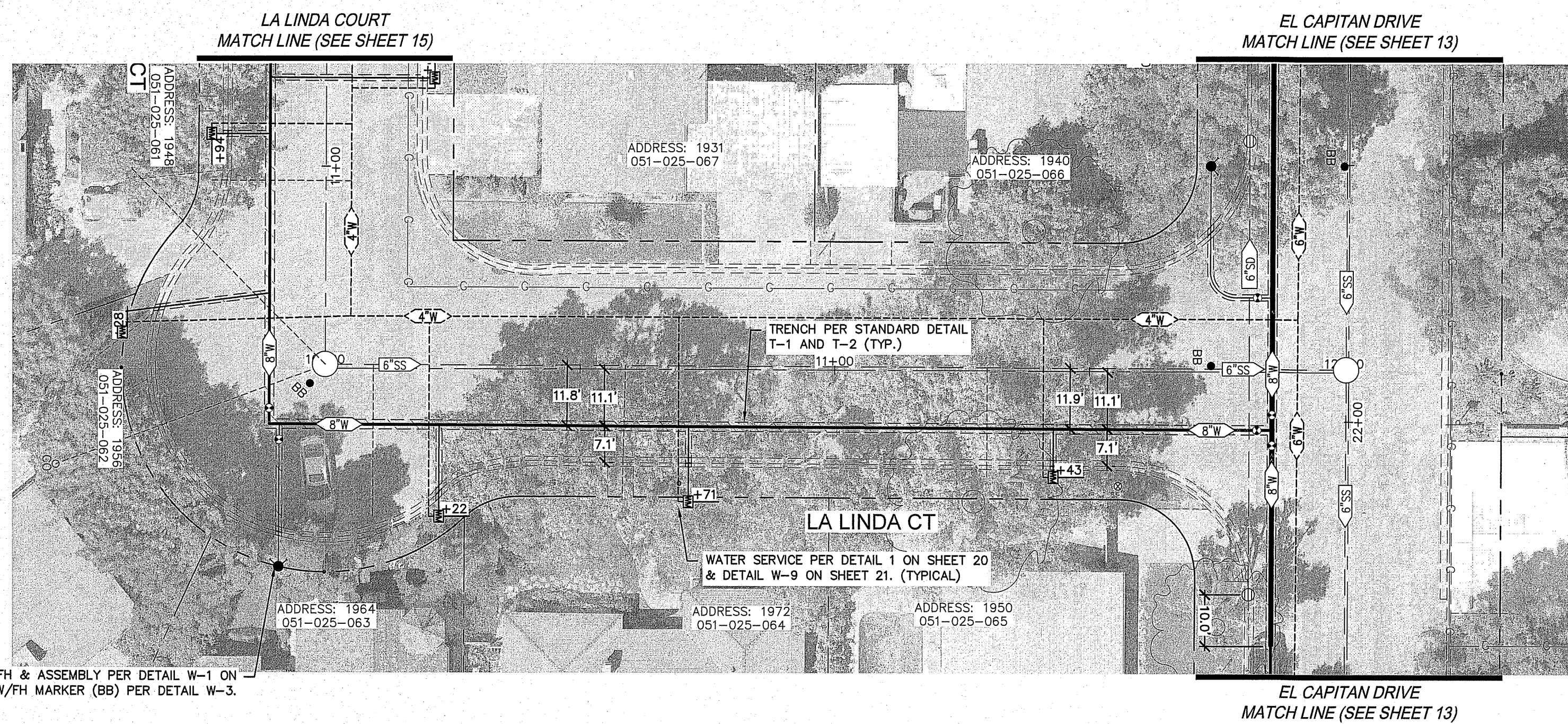
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G:\23052_Turlock_City_Project_No_23-040_Water_Main_Replacement\DRAWINGS\ENGINEERING FILES AND DRAWINGS\DRAWINGS\23052DSGN.dwg PLOT Mar 18, 2024 AT 6:55AM



CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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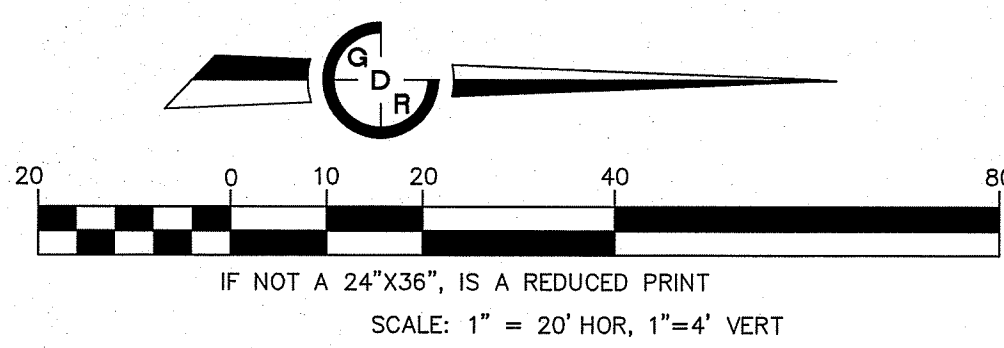
INSTALL FH & ASSEMBLY PER DETAIL W-1 ON SHEET 21 W/FH MARKER (BB) PER DETAIL W-3.



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Jason K. Chapman
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 JASON K. CHAPMAN
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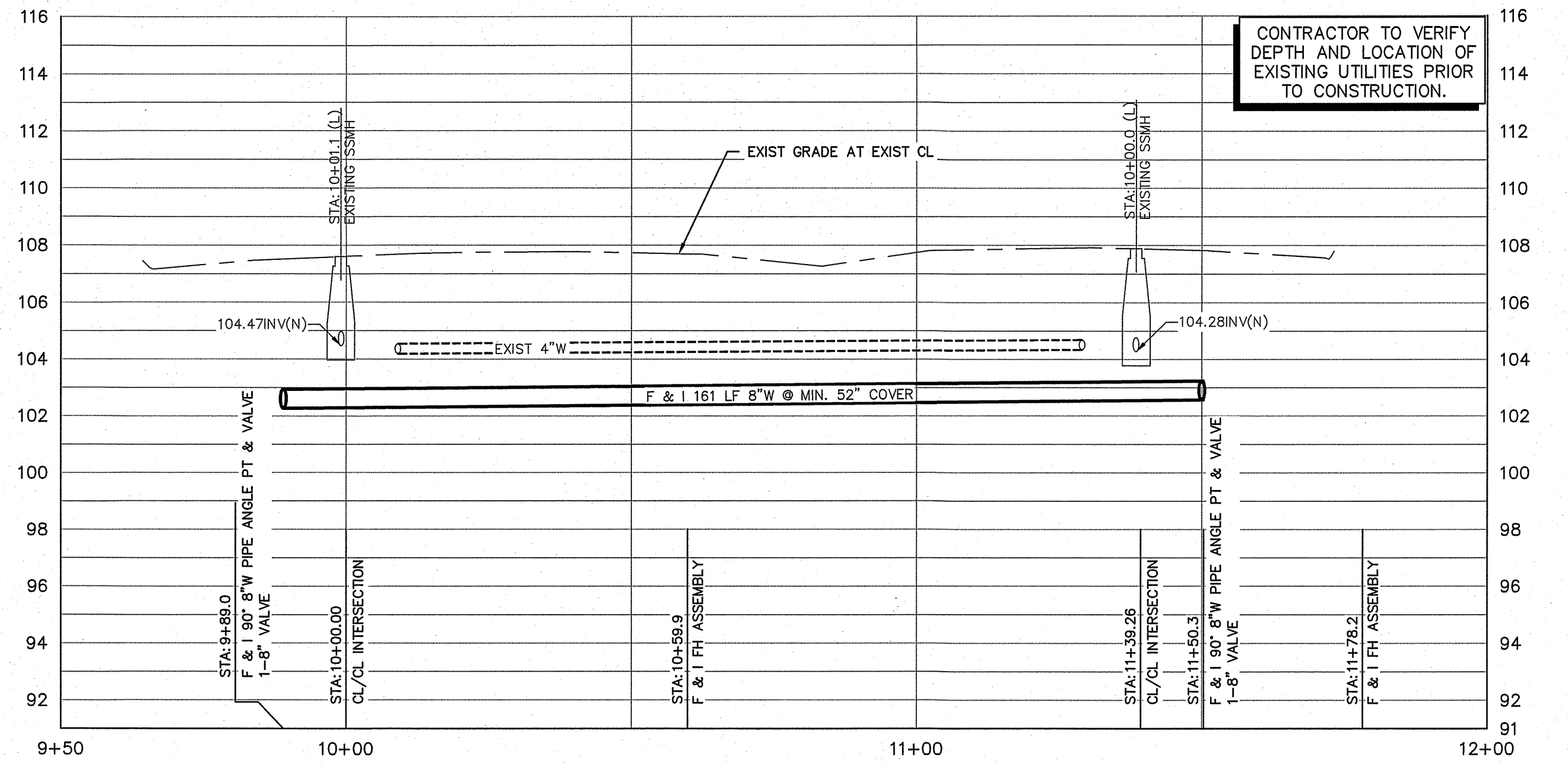
CAUTION: UNAUTHORIZED CHANGES AND USES		
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CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 LA LINDA COURT EAST & WEST PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024
 DWG No. 23052DSGN.dwg LAYOUT: 14-PP SHEET 14 OF 21
 DRAWN: JA CHECKED: FILE NO. 23052

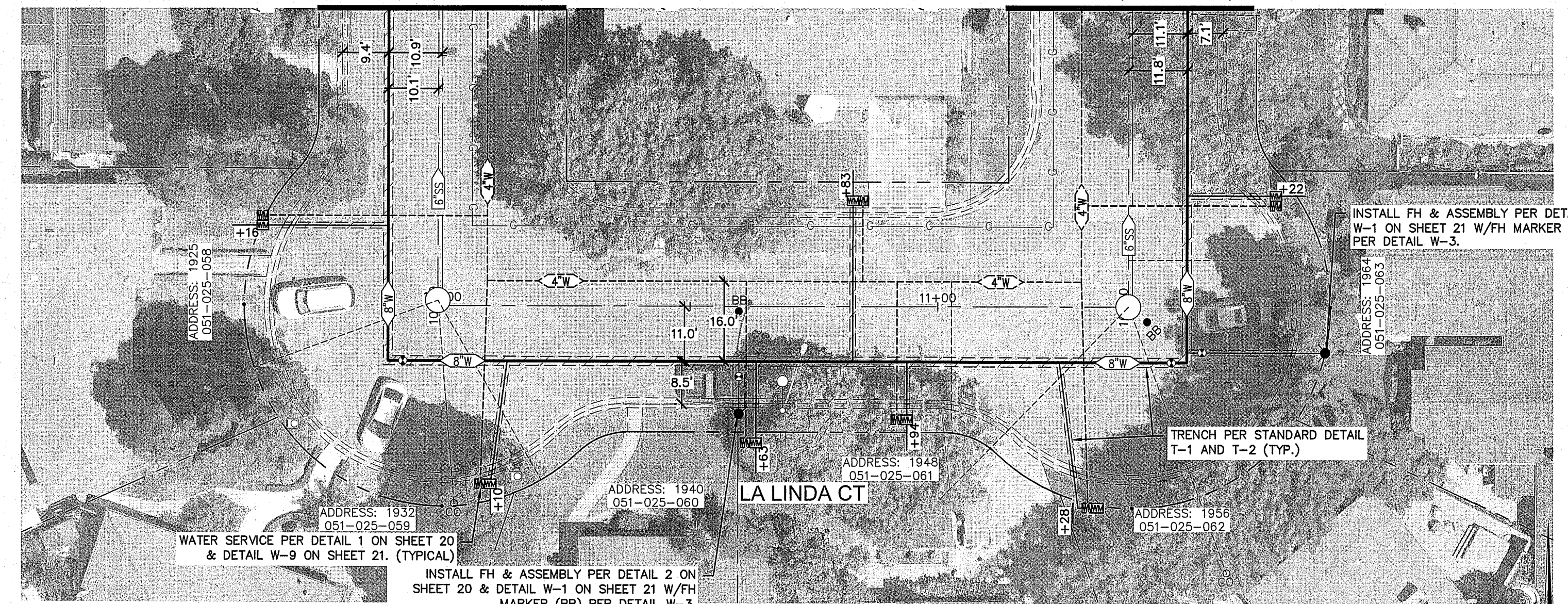
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CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

LA LINDA COURT
MATCH LINE (SEE SHEET 14)

LA LINDA COURT
MATCH LINE (SEE SHEET 14)

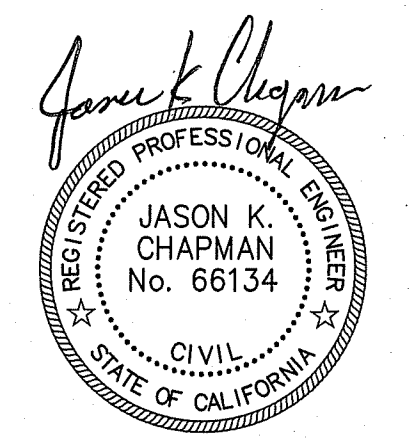


INSTALL FH & ASSEMBLY PER DETAIL W-1 ON SHEET 21 W/FH MARKER (BB) PER DETAIL W-3.

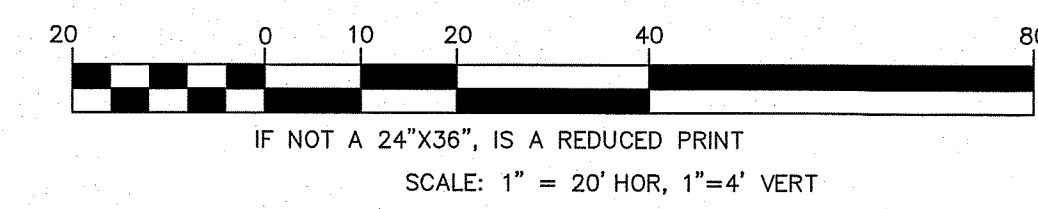
TRENCH PER STANDARD DETAIL T-1 AND T-2 (TYP.)

WATER SERVICE PER DETAIL 1 ON SHEET 20 & DETAIL W-9 ON SHEET 21 (TYPICAL)

INSTALL FH & ASSEMBLY PER DETAIL 2 ON SHEET 20 & DETAIL W-1 ON SHEET 21 W/FH MARKER (BB) PER DETAIL W-3.



3/18/2021
DATE SIGNED:



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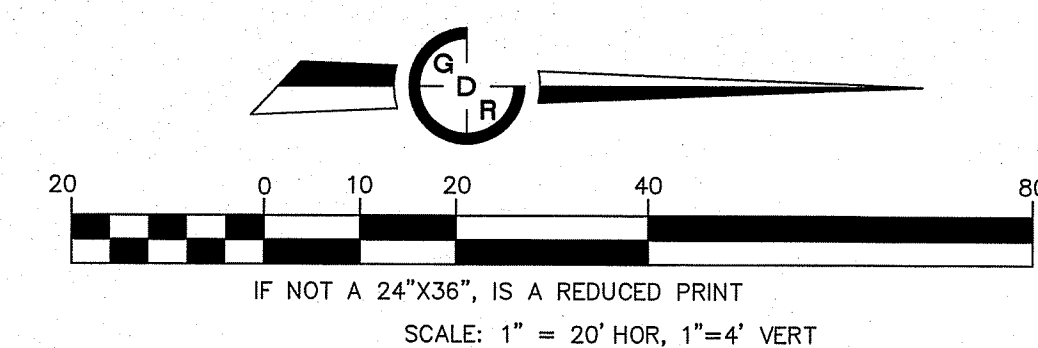
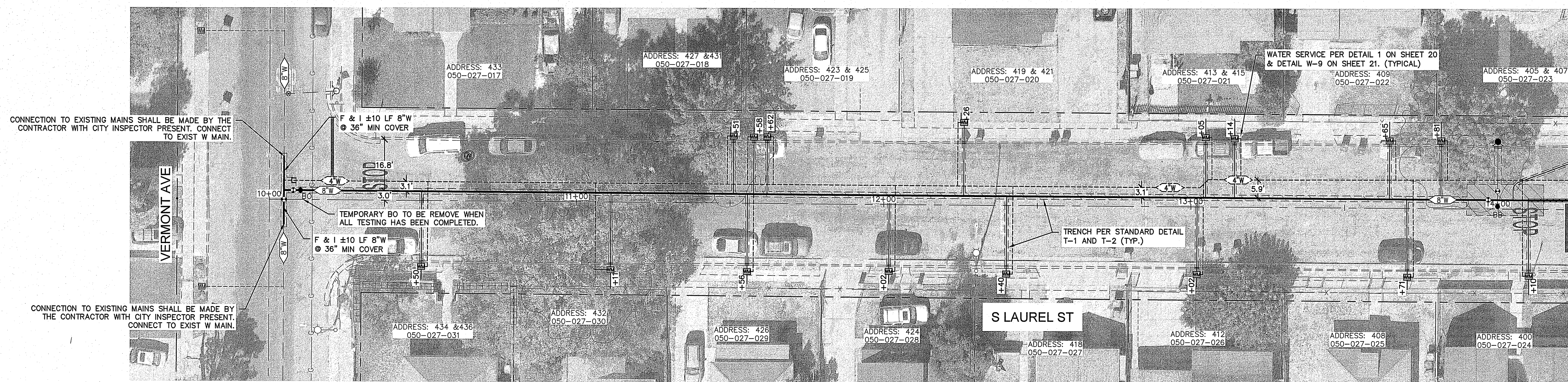
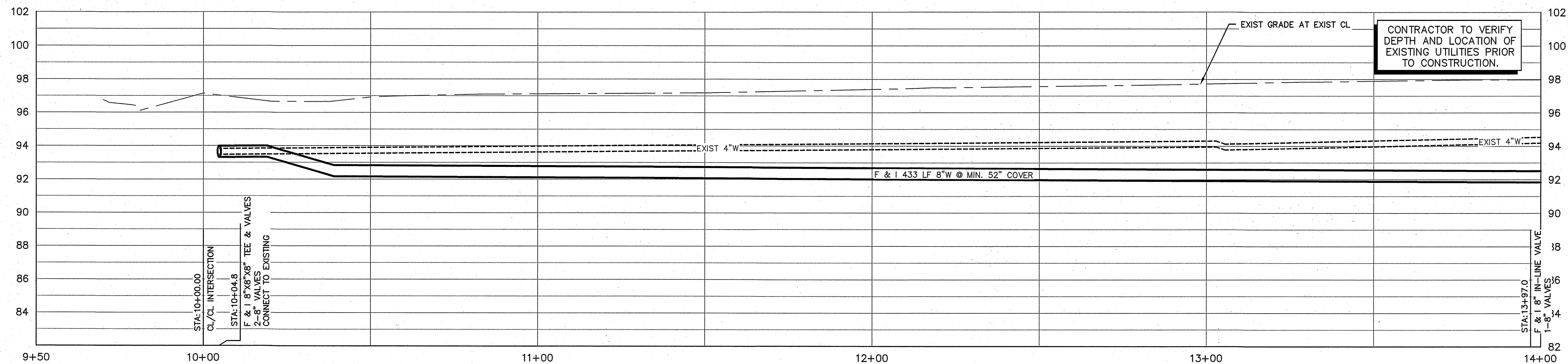
CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
LA LINDA COURT SOUTH PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2021
DWG NO. 23052DSGN.dwg LAYOUT 15-PP SHEET 15 OF 21
DRAWN: JA CHECKED: FILE NO. 23052



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CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
S LAUREL STREET PLAN AND PROFILE

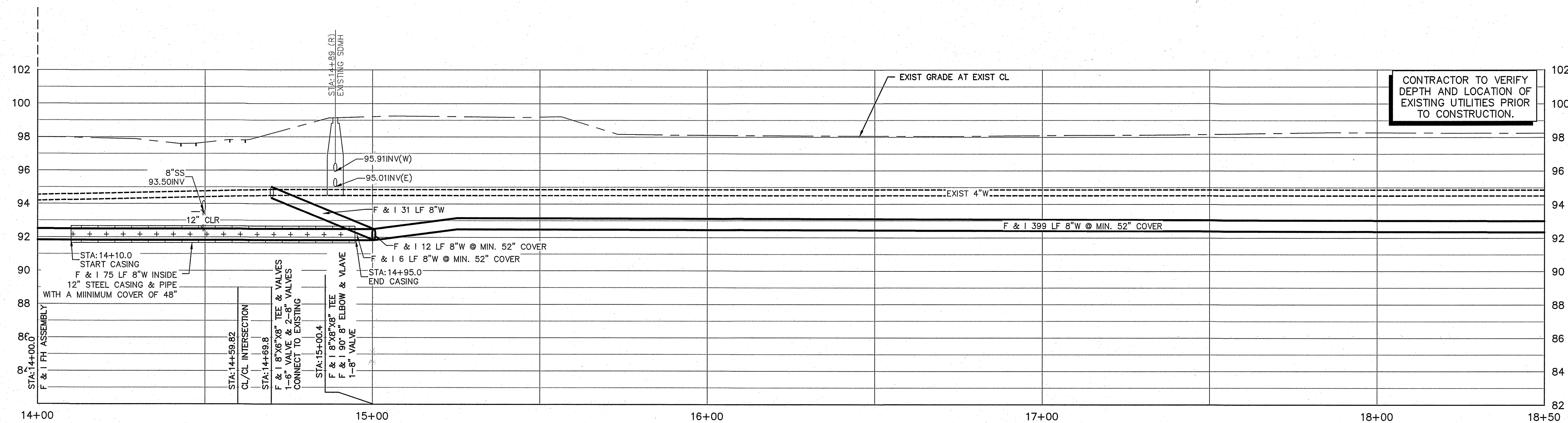
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 DRAWN: JA CHECKED: FILE NO. 23052



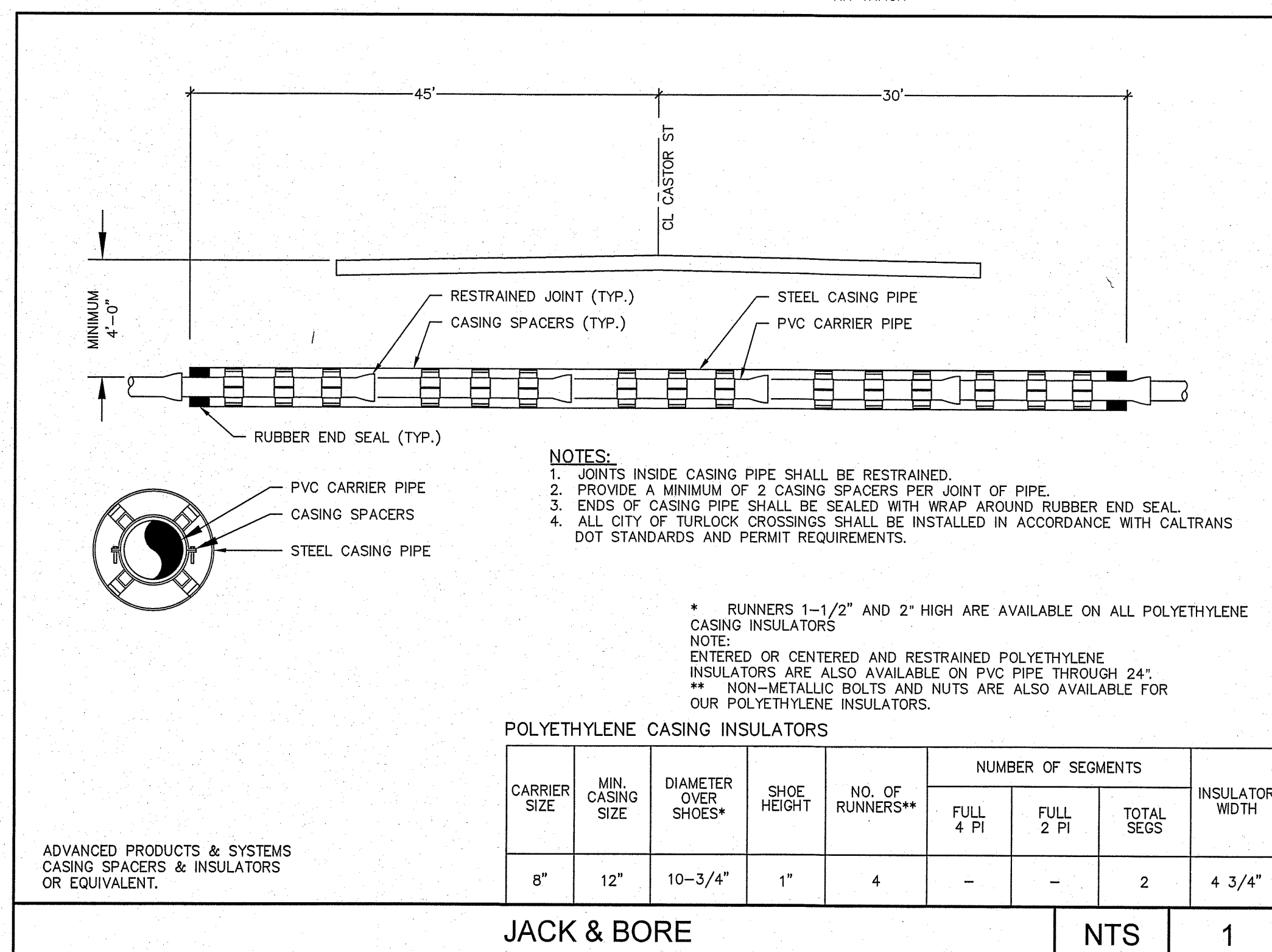
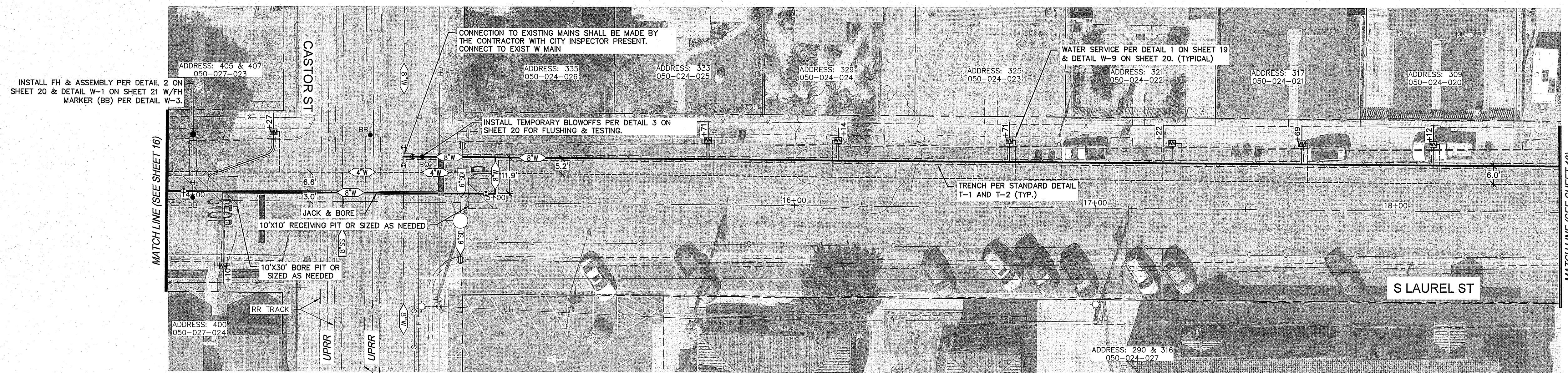
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CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

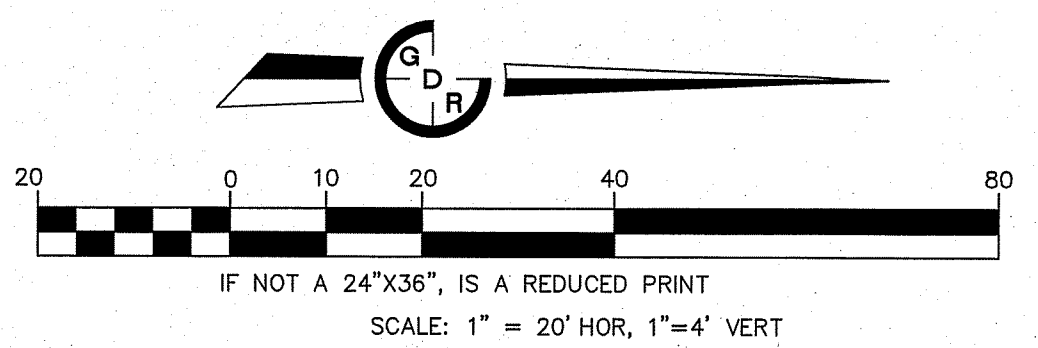


POLYETHYLENE CASING INSULATORS

CARRIER SIZE	MIN. CASING SIZE	DIAMETER OVER SHOES*	SHOE HEIGHT	NO. OF RUNNERS**	NUMBER OF SEGMENTS			INSULATOR WIDTH
					FULL 4 PI	FULL 2 PI	TOTAL SEGS	
8"	12"	10-3/4"	1"	4	-	-	2	4 3/4"

JACK & BORE **NTS** **1**

- NOTE:**
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 - WATER SERVICE DETAIL AND REMOVAL. (SEE DETAIL 1 SHEET 20 & DETAILS W-9 & W-10 SHEET 21)
 - CONTRACTOR IS REQUIRED TO HAND DIG TO EXPOSE SIDE OF EXISTING WATER MAIN ALONG NEW WATER MAIN TRENCH TO ESTABLISH EXISTING WATER MAIN ELEVATION IN ORDER TO INSTALL PROPOSED WATER MAIN AT THE SAME ELEVATION.
 - REMOVE & REPLACE STRIPING & LEGEND IN KIND
 - INSTALL TYPE C-5 BOXES WITH DIRECTIONAL ARROWS TO SHOW CHANGE IN DIRECTION. (SEE DETAIL 4 SHEET 20 & W-5 SHEET 21. (TYP.)
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- PAVING LEGEND:**
- TRENCH PATCH & GRINDING
 - SEE TRENCH PATCH DETAIL T-1 AND T-2



3/18/2024
DATE SIGNED:

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DESCRIPTION	DATE	BY

GDR ENGINEERING, INC.
ENGINEERING/SURVEYING/PLANNING
3525 MITCHELL ROAD, SUITE G CERES, CA 95307
TELEPHONE: (209) 538-3360 FAX: (209) 538-7370
E-MAIL: GDRENGINEERING@GDRENGR.COM

CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
S LAUREL STREET PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024

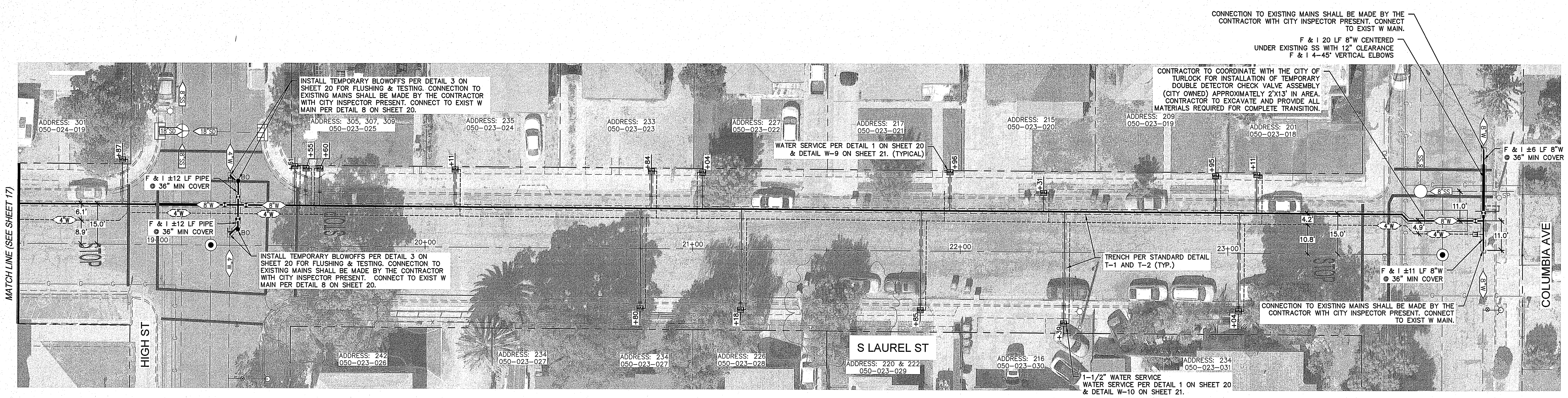
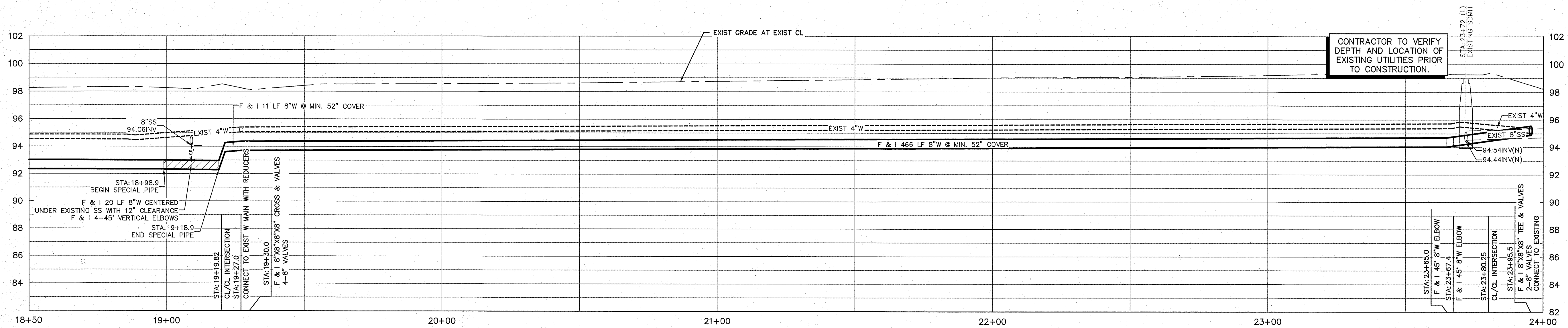
DWG NO. 23052DSGN.dwg LAYOUT 17-PP SHEET 17 OF 21

DRAWN: JA CHECKED: DATE: BY: FILE NO. 23052

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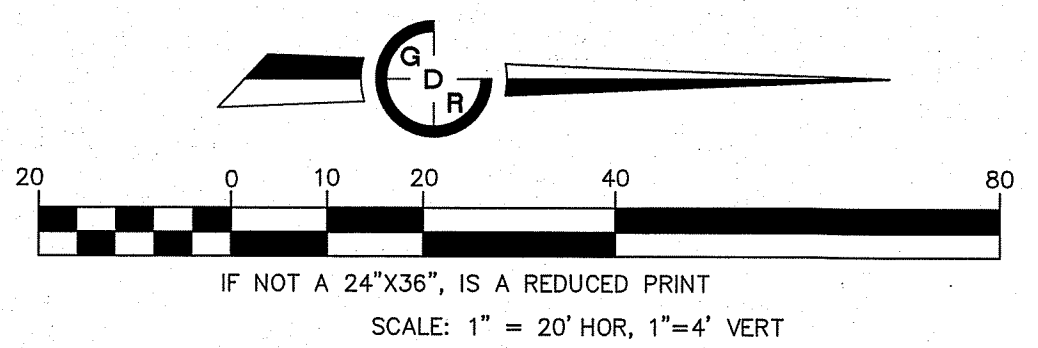
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Jason K. Chapman
 REGISTERED PROFESSIONAL ENGINEER
 JASON K. CHAPMAN
 No. 66134
 CIVIL
 STATE OF CALIFORNIA
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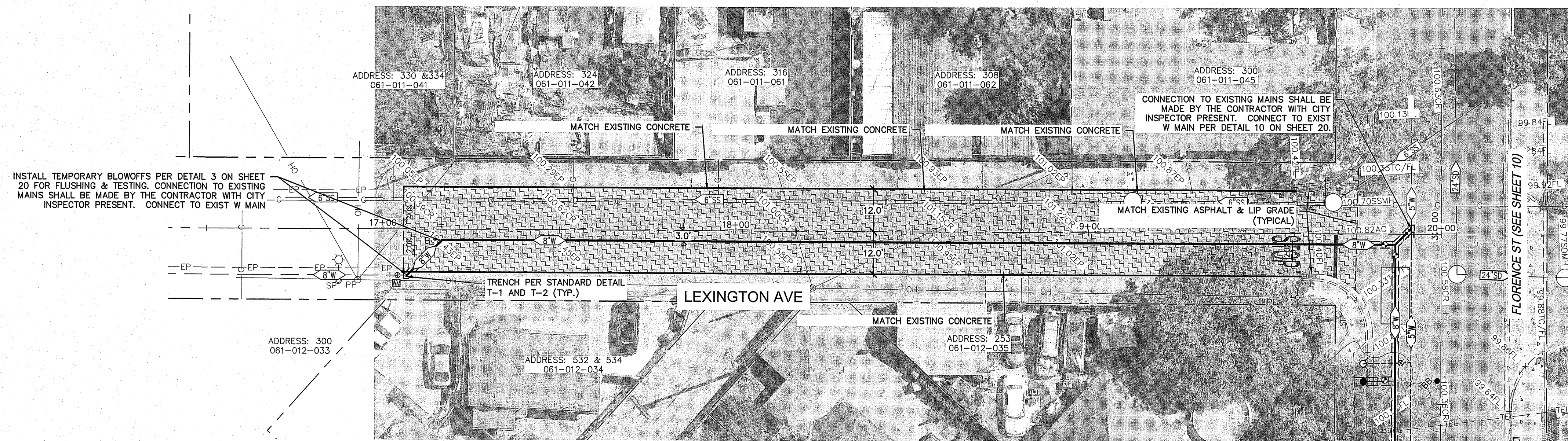
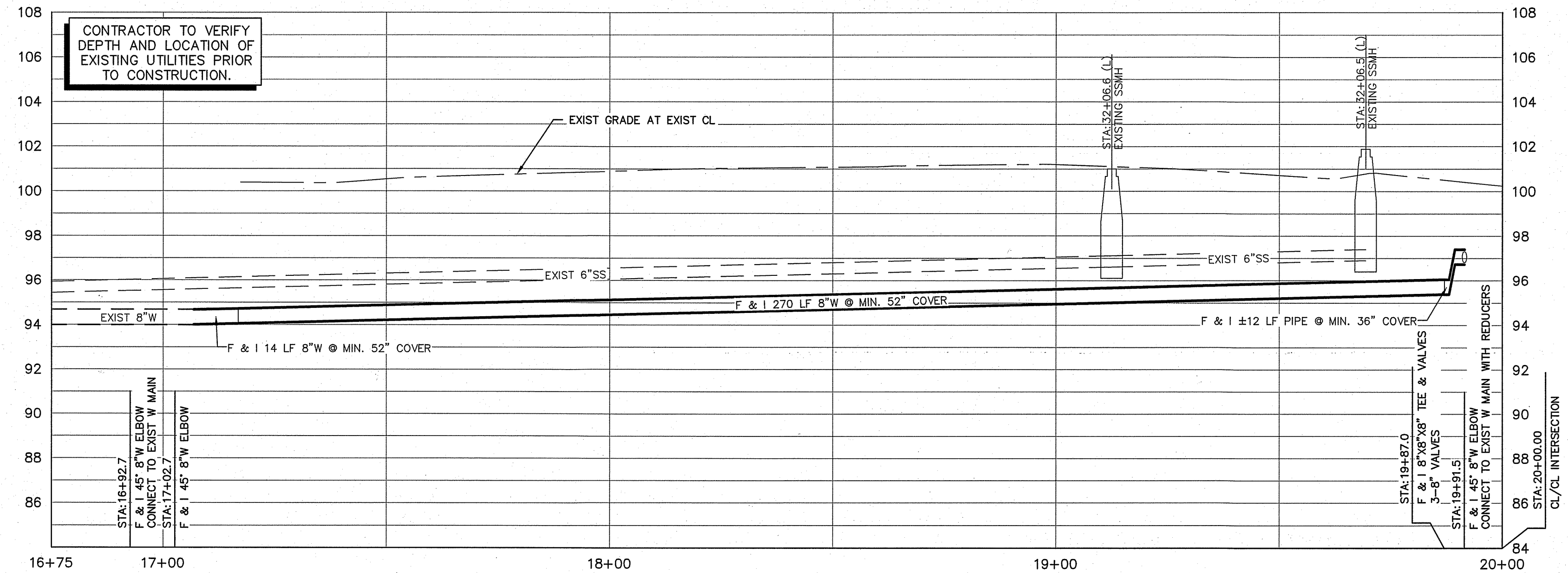
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CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 S LAUREL STREET PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024
 DWG No. 23052DSGN.dwg LAYOUT: 18-PP SHEET 18 OF 21
 DRAWN: JA CHECKED: DATE BY FILE No. 23052

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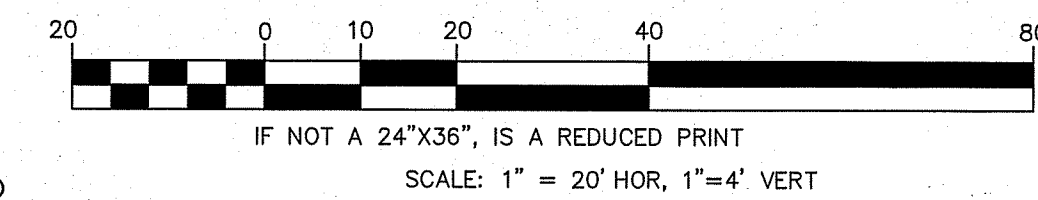


INSTALL TEMPORARY BLOWOFFS PER DETAIL 3 ON SHEET 20 FOR FLUSHING & TESTING. CONNECTION TO EXISTING MAINS SHALL BE MADE BY THE CONTRACTOR WITH CITY INSPECTOR PRESENT. CONNECT TO EXIST W MAIN

CONNECTION TO EXISTING MAINS SHALL BE MADE BY THE CONTRACTOR WITH CITY INSPECTOR PRESENT. CONNECT TO EXIST W MAIN PER DETAIL 10 ON SHEET 20.

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SEE TRENCH PATCH DETAIL T-1 AND T-2
 - FULL PAVEMENT SECTION PER CITY STANDARD ST-1
3" ASPHALTIC CONCRETE OVER 6" AGGREGATE BASE @ 95% RELATIVE COMPACTION OVER 6" RECOMPACTED NATIVE SOIL



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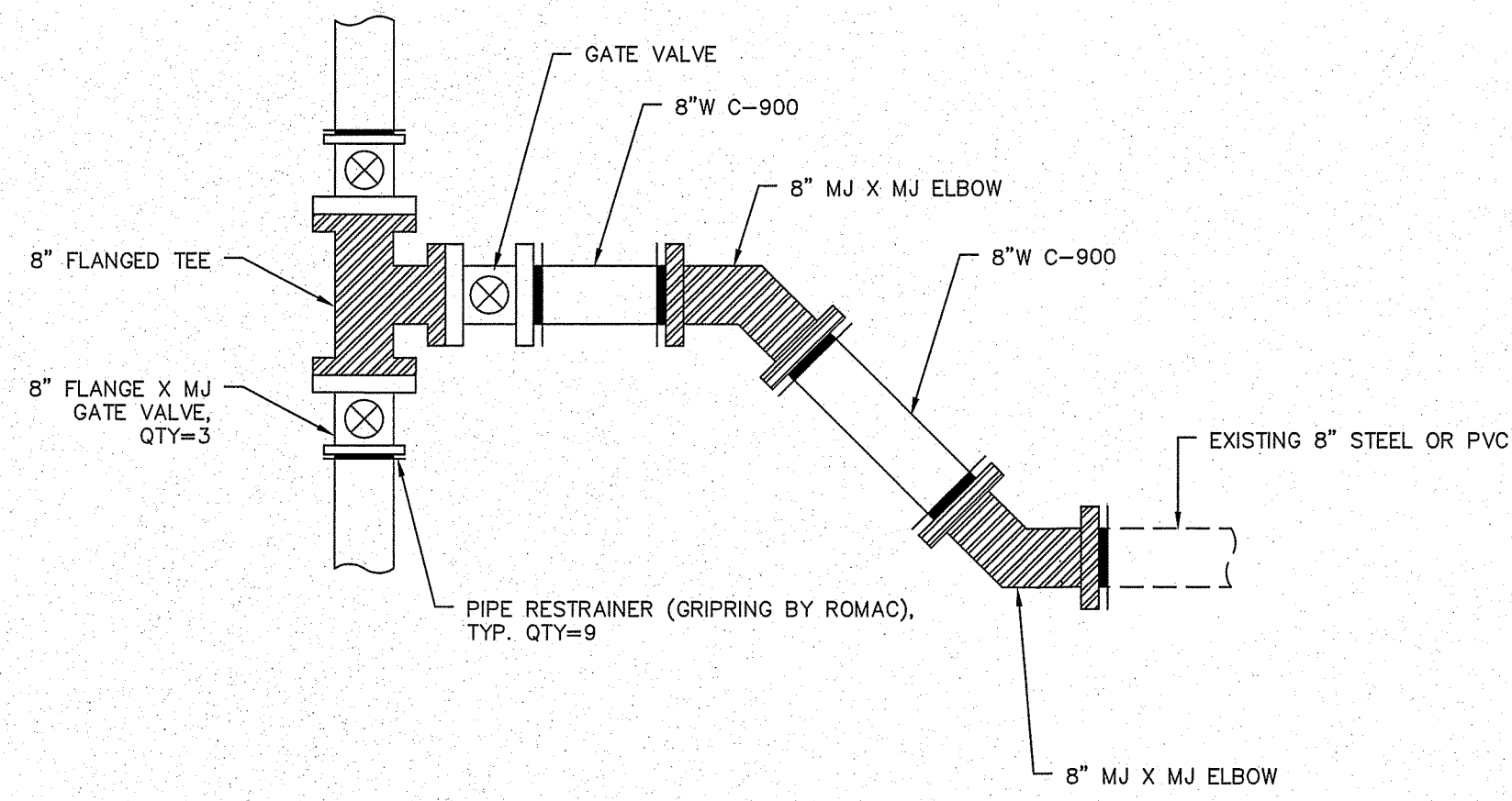
CITY OF TURLOCK
 WATER LINE REPLACEMENT PLANS
 LEXINGTON AVENUE PLAN AND PROFILE

SCALE: AS NOTED DATE: 03/18/2024
 DWG NO. 23052ZDSGN.dwg LAYOUT 19-PP SHEET 19 OF 21
 DRAWN: JA CHECKED: FILE NO. 23052



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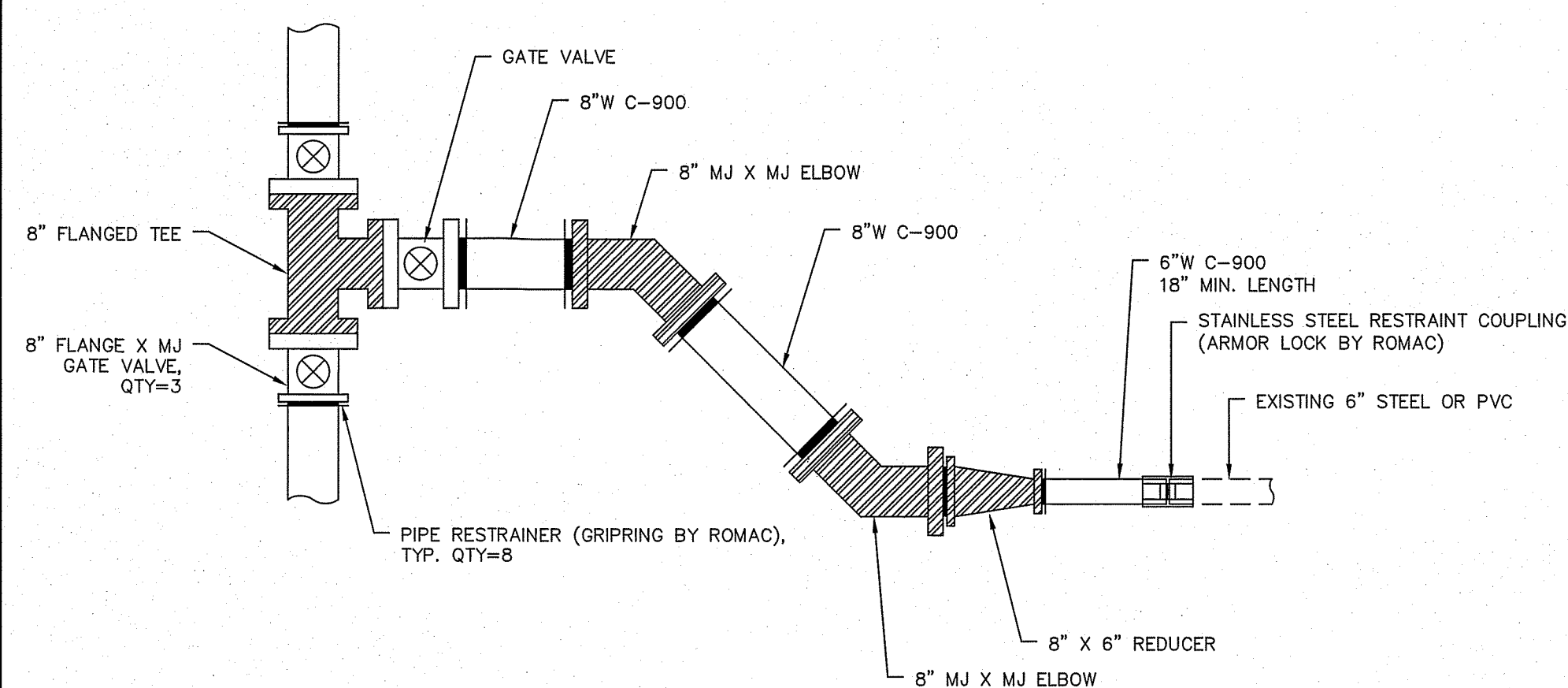
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LOCATION: INTERSECTION OF S. LAURAL STREET & CASTOR STREET

WATER LINE CONNECTION

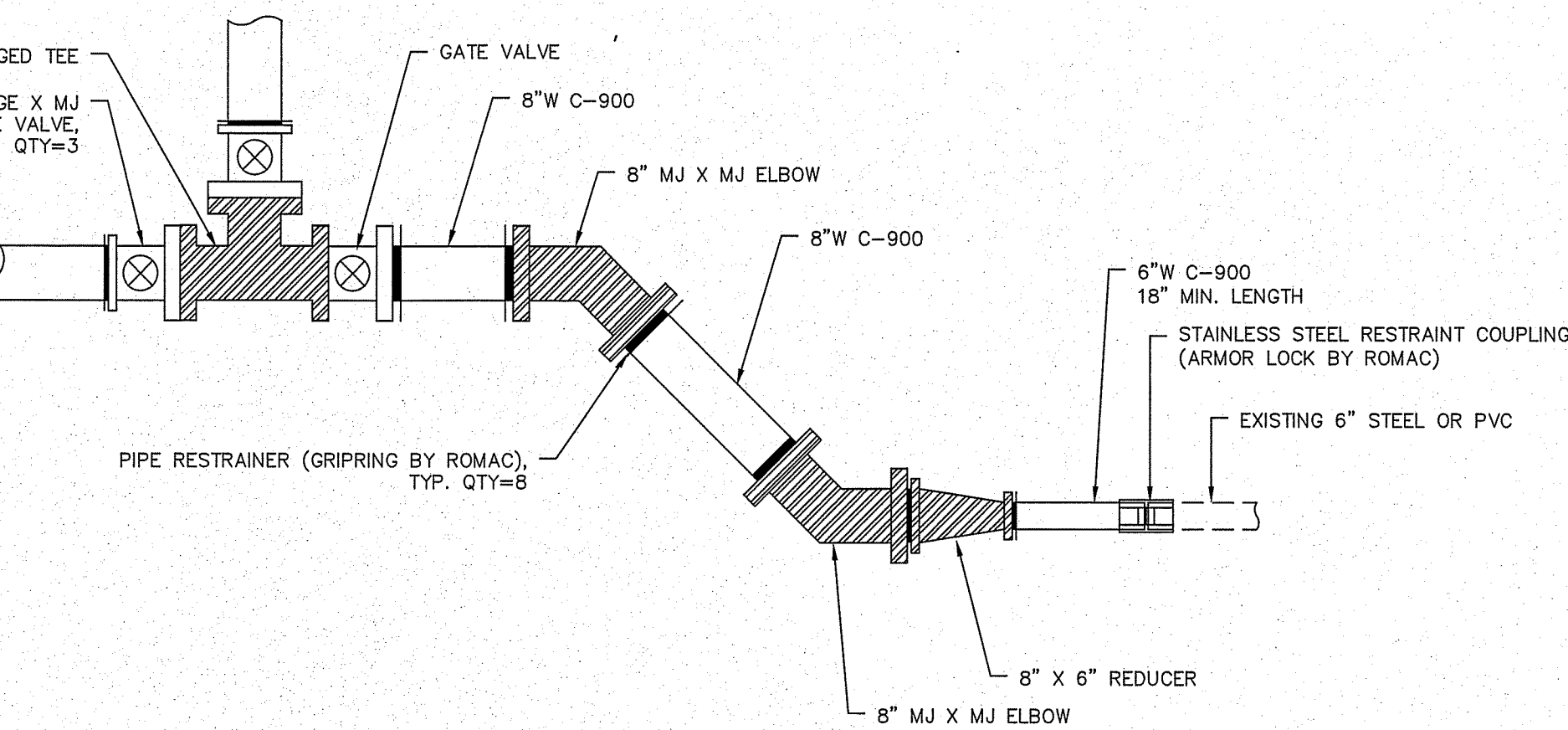
NTS 9



LOCATION: INTERSECTION OF EL CAPITAN DRIVE & EL PASO STREET

WATER LINE CONNECTION

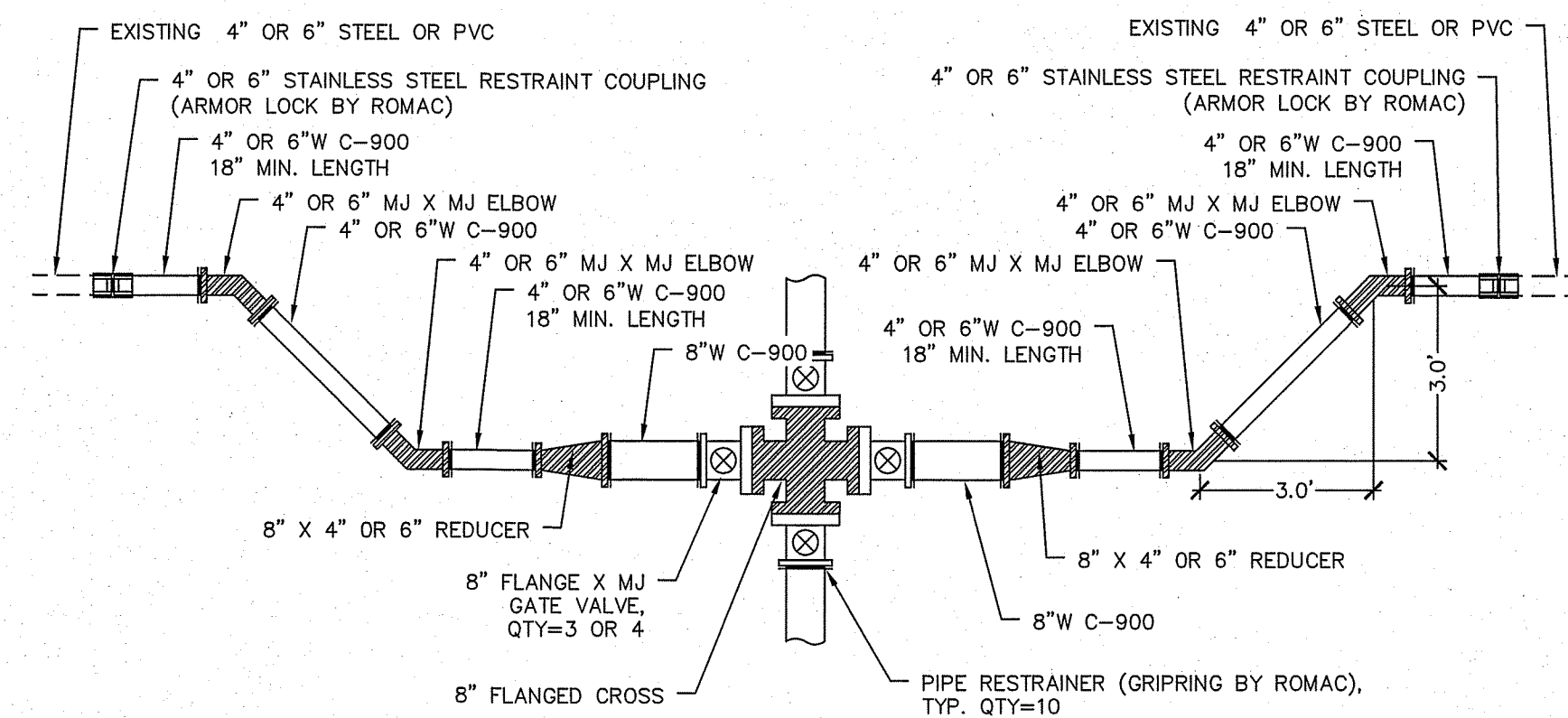
NTS 5



LOCATION: INTERSECTION OF FLORENCE STREET & LEXINGTON AVENUE

WATER LINE CONNECTION

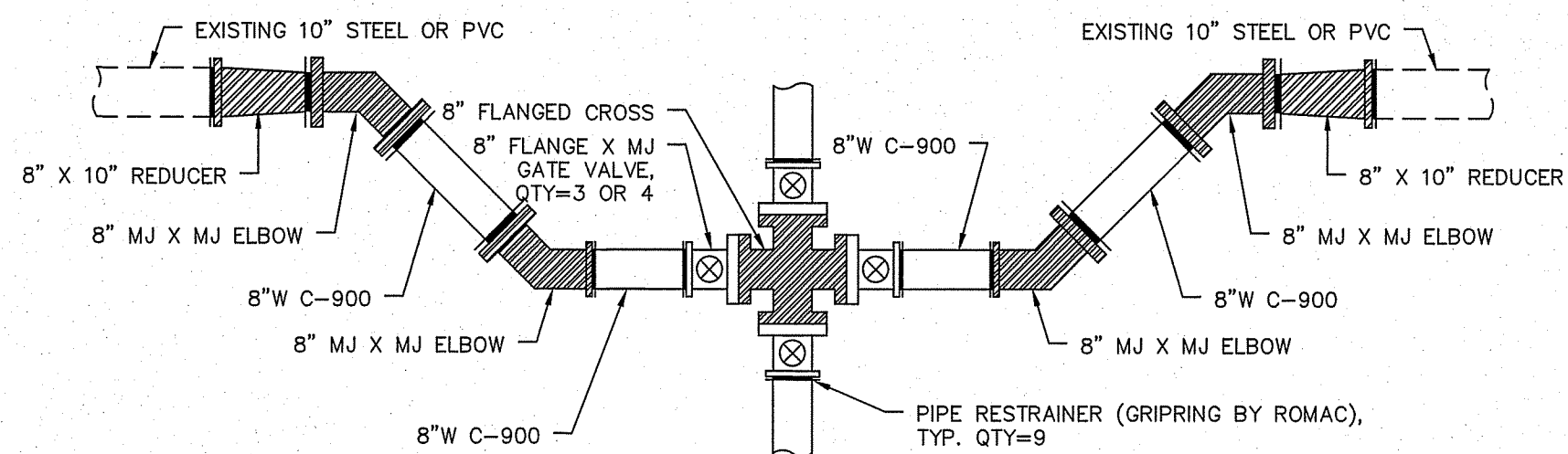
NTS 10



LOCATION: INTERSECTION OF FLORENCE STREET & GRANT AVENUE
LOCATION: INTERSECTION OF EL CAPITAN DRIVE & EDWARD DRIVE

WATER LINE CONNECTION

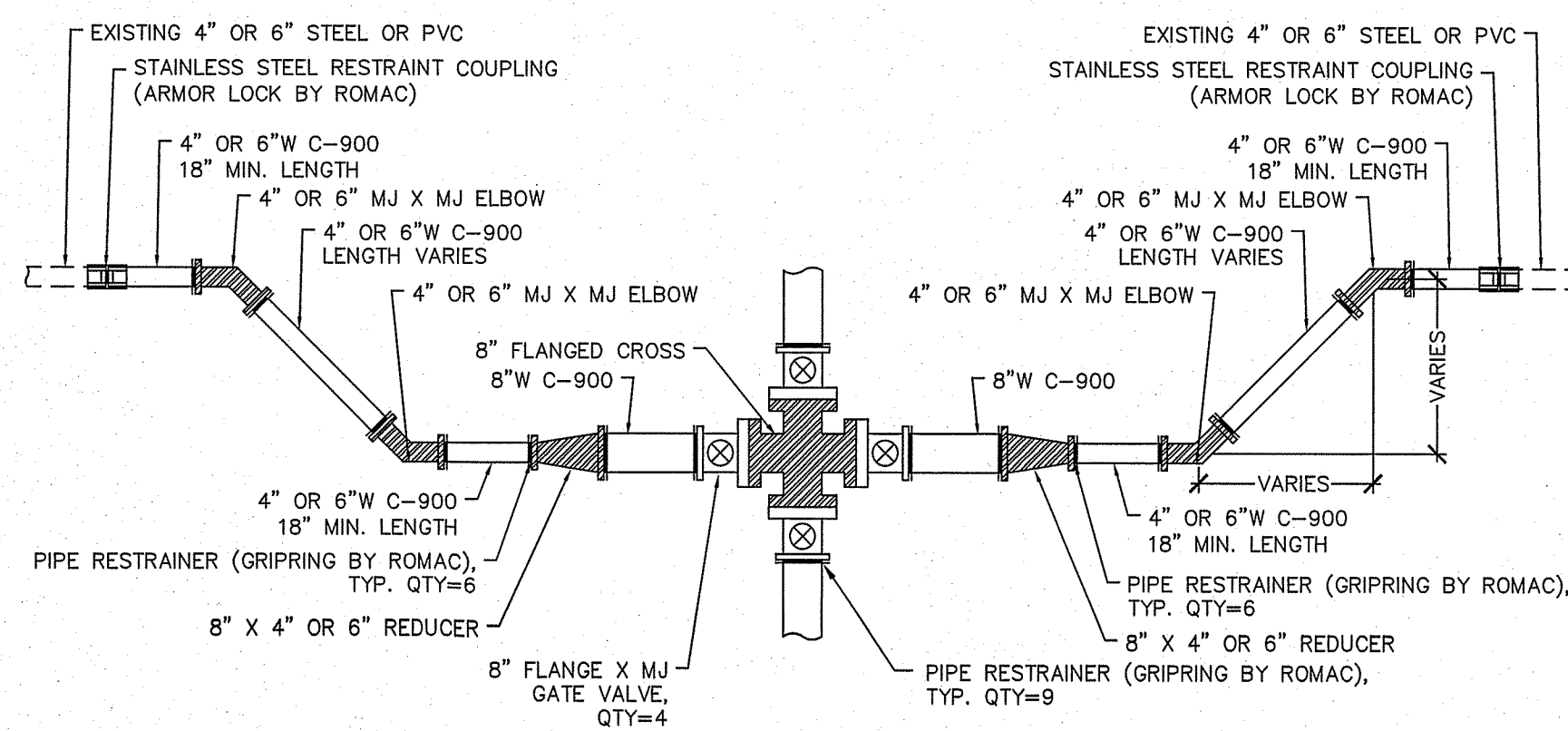
NTS 6



LOCATION: INTERSECTION OF FLORENCE STREET & ORANGE STREET

WATER LINE CONNECTION

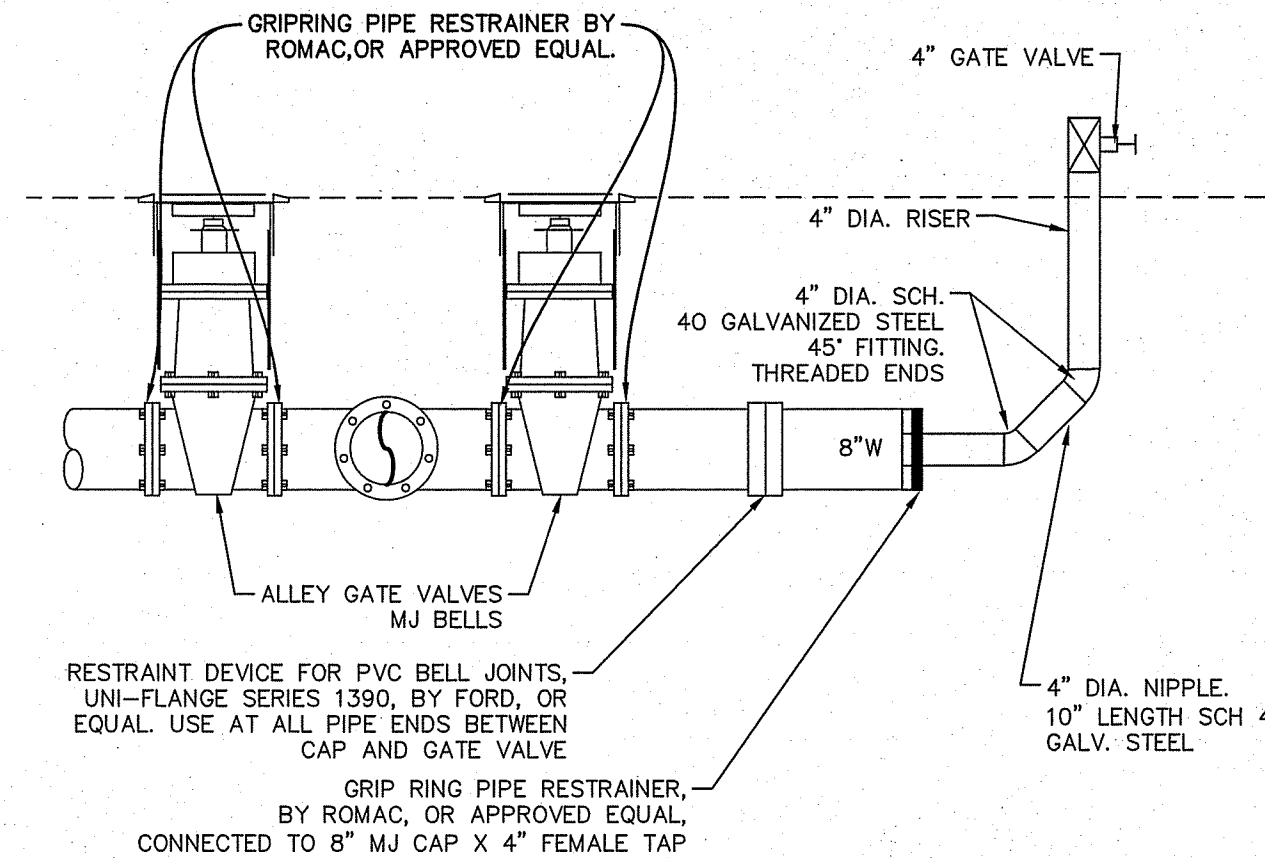
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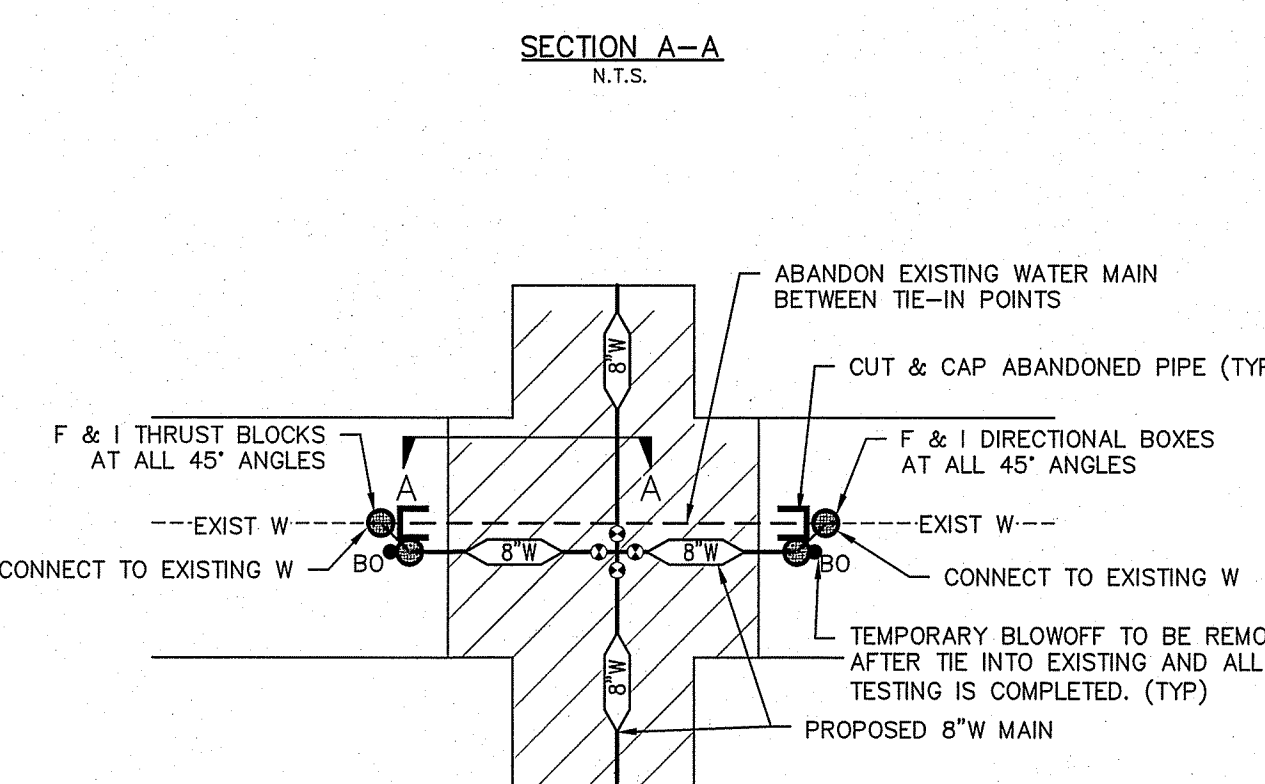
LOCATION: INTERSECTION OF S. LAURAL STREET & HIGH STREET

WATER LINE CONNECTION

NTS 8



- NOTES:**
- NOT TO SCALE
 - AFTER FLUSHING AND SUCCESSFUL BACTERIOLOGICAL TESTING, CONTRACTOR SHALL:
 - EXCAVATE TRENCH TO EXISTING WATER MAIN POINT OF CONNECTION.
 - REMOVE RISER AND GATE VALVE (CONTRACTOR RETAINS POSSESSION OF THESE) AND PROVIDE THE FOLLOWING MATERIALS AT EACH BLOWOFF LOCATION FOR INSTALLATION AND CONNECTION TO THE EXISTING WATER MAIN BY THE CITY OF TURLOCK WATER DIVISION:
 - 4" x 4" GALV. STEEL REDUCER, QTY=1
 - 4" GALV. STEEL 45 DEGREE FITTING, QTY=2
 - 4" SCH. 40 GALV. STEEL PIPE (PLAIN END), LENGTH=10', QTY=1



4" TEMPORARY BLOWOFF DETAIL

NTS 3



G5 BOX DIRECTIONAL DETAIL

NTS 4

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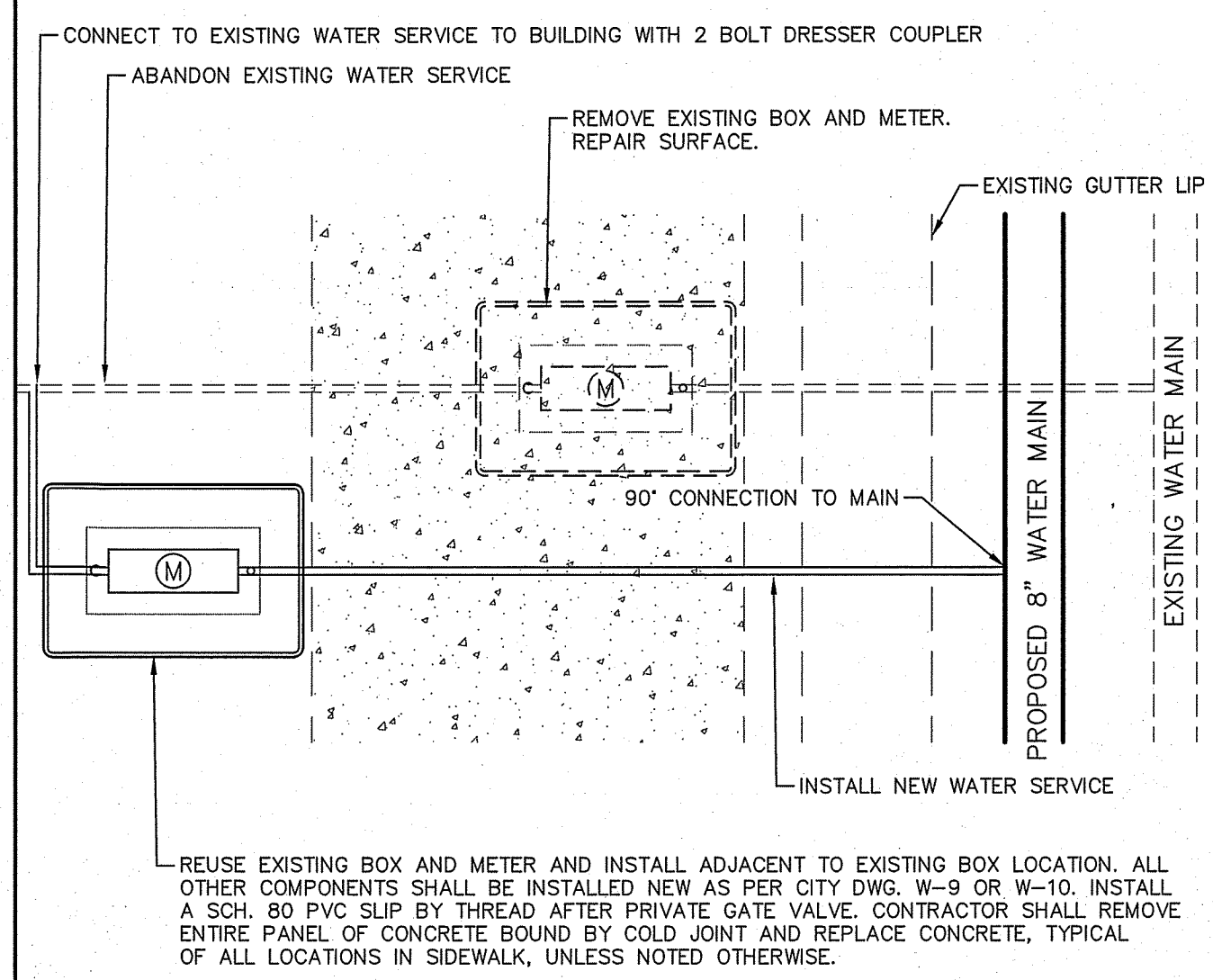
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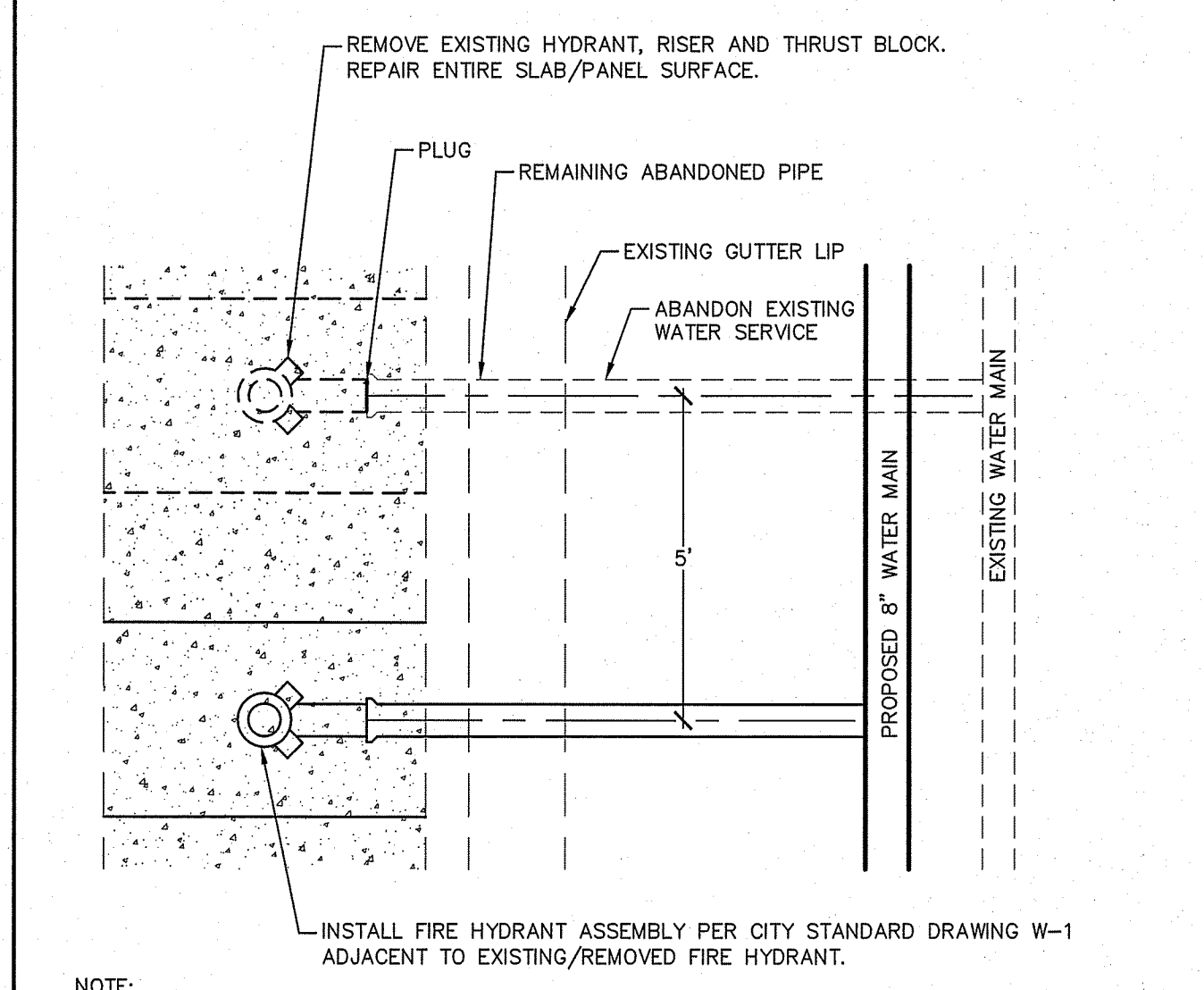
CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
CONSTRUCTION DETAILS

SCALE: NOT TO SCALE DATE: 03/18/2024
DWG NO. 23052DSGN.dwg LAYOUT 20-CON SHEET 20 OF 21
DRAWN: JA CHECKED: FILE NO. 23052



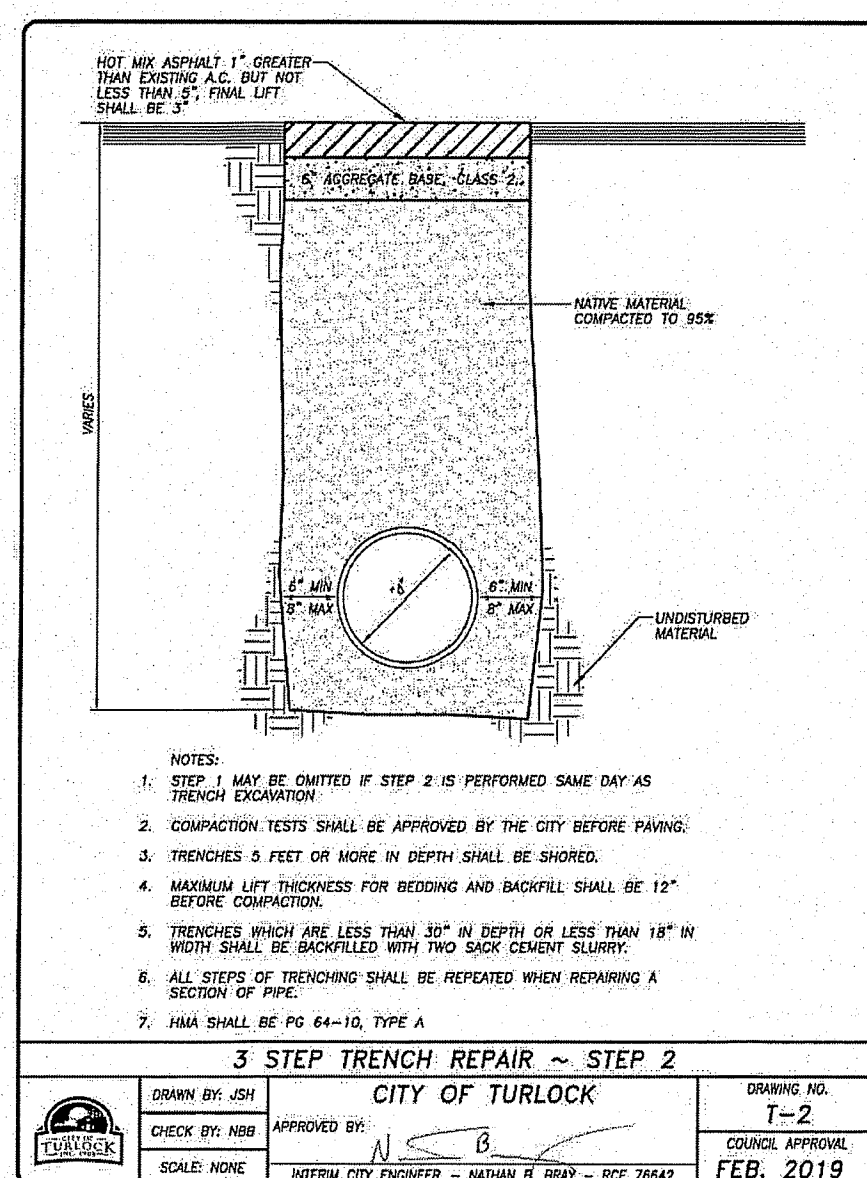
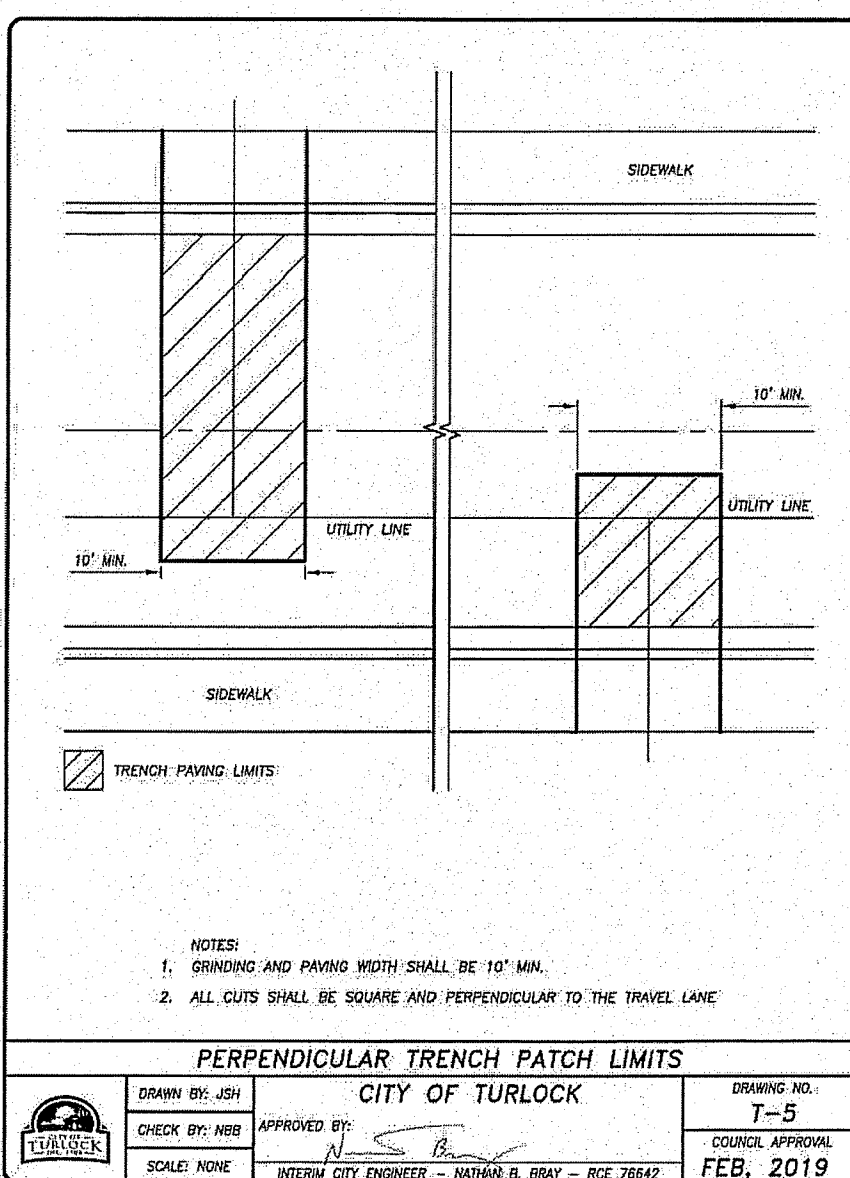
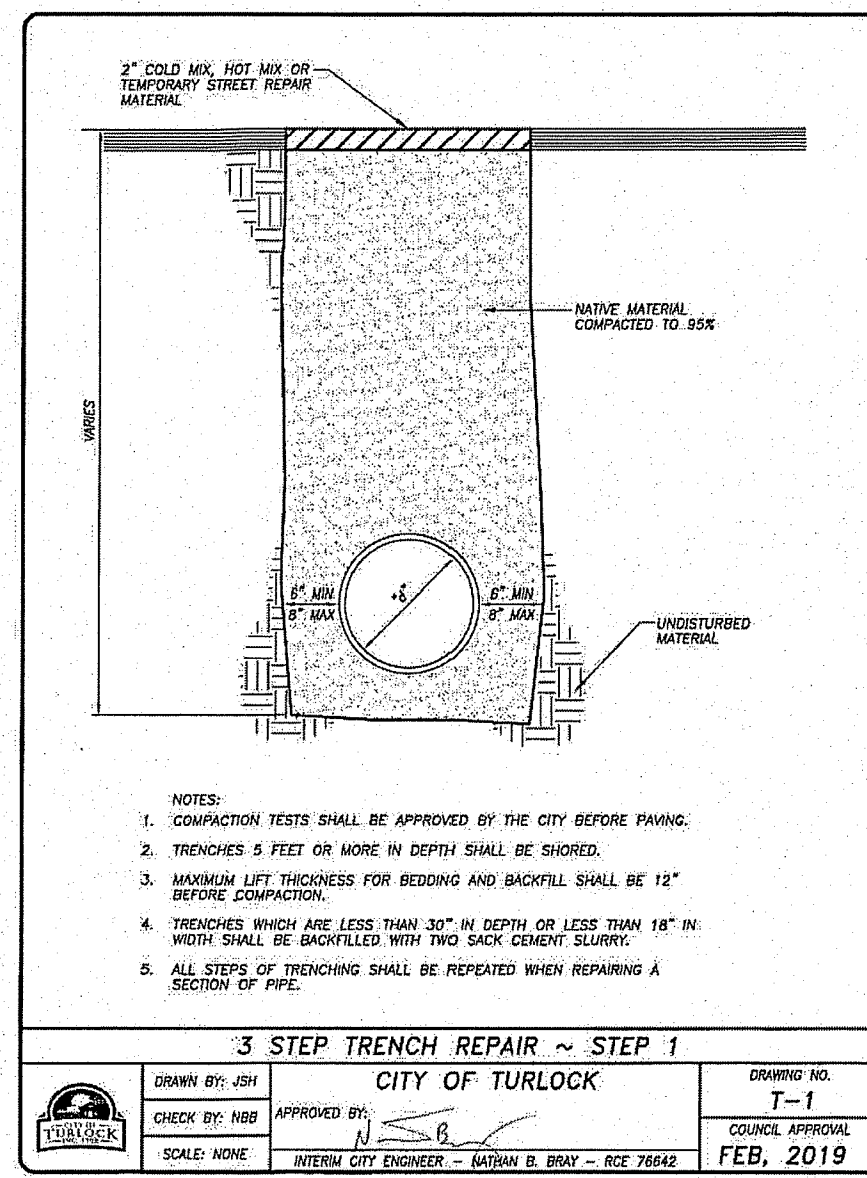
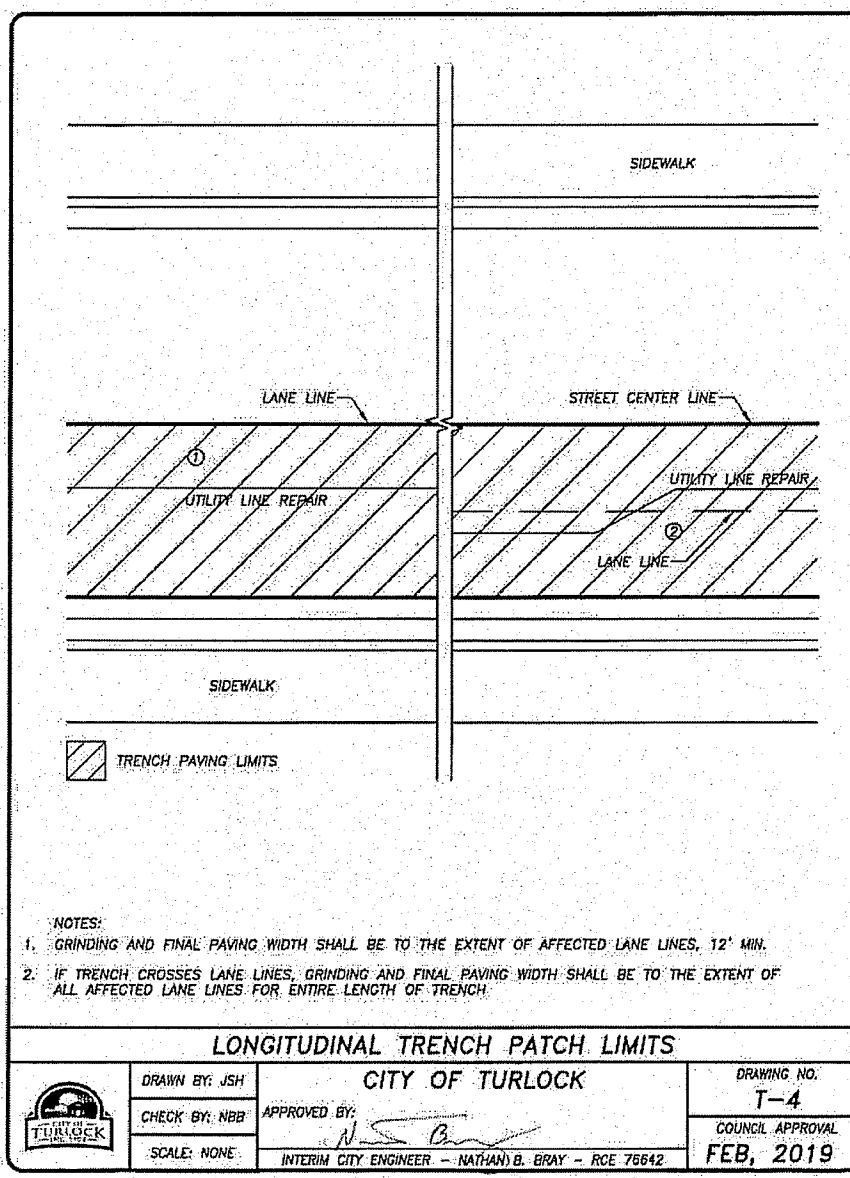
NEW WATER SERVICE DETAIL

NTS 1



FIRE HYDRANT REMOVAL

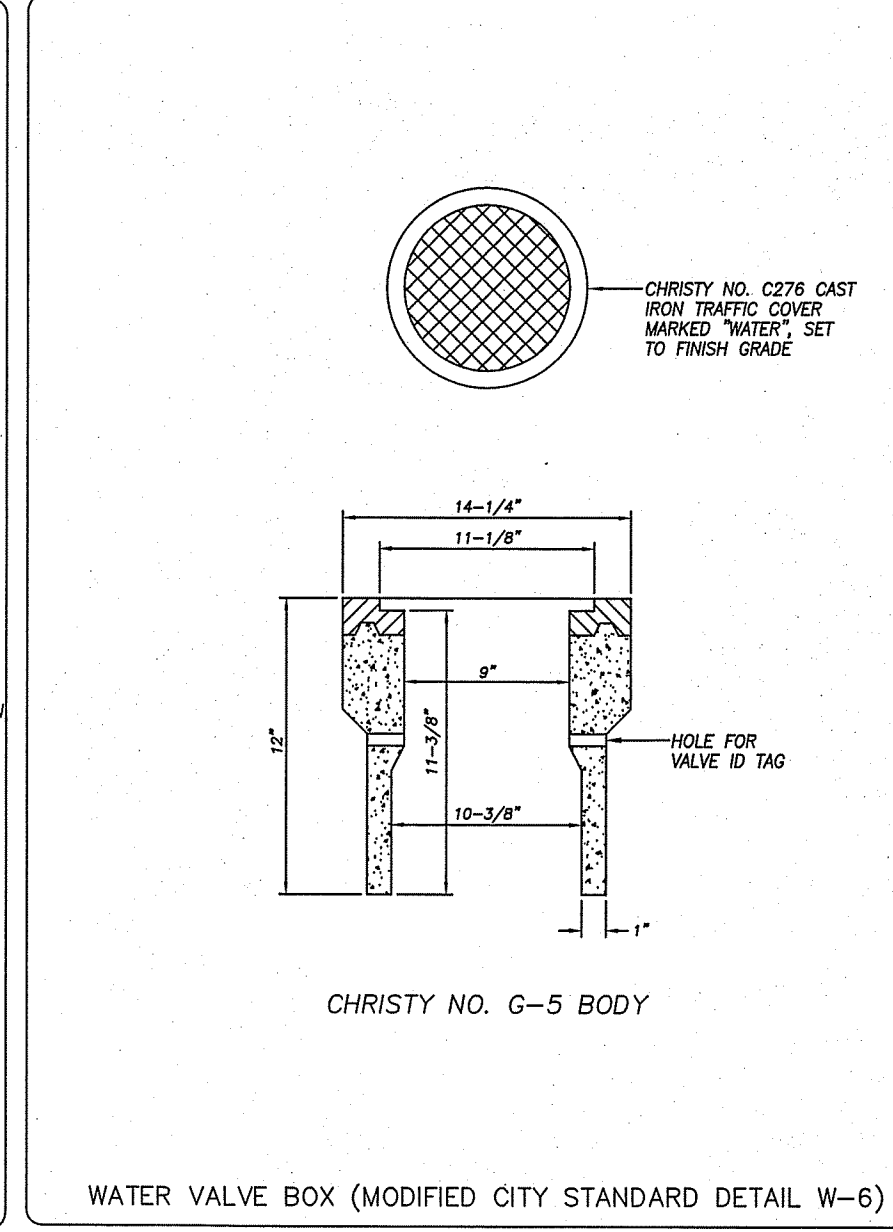
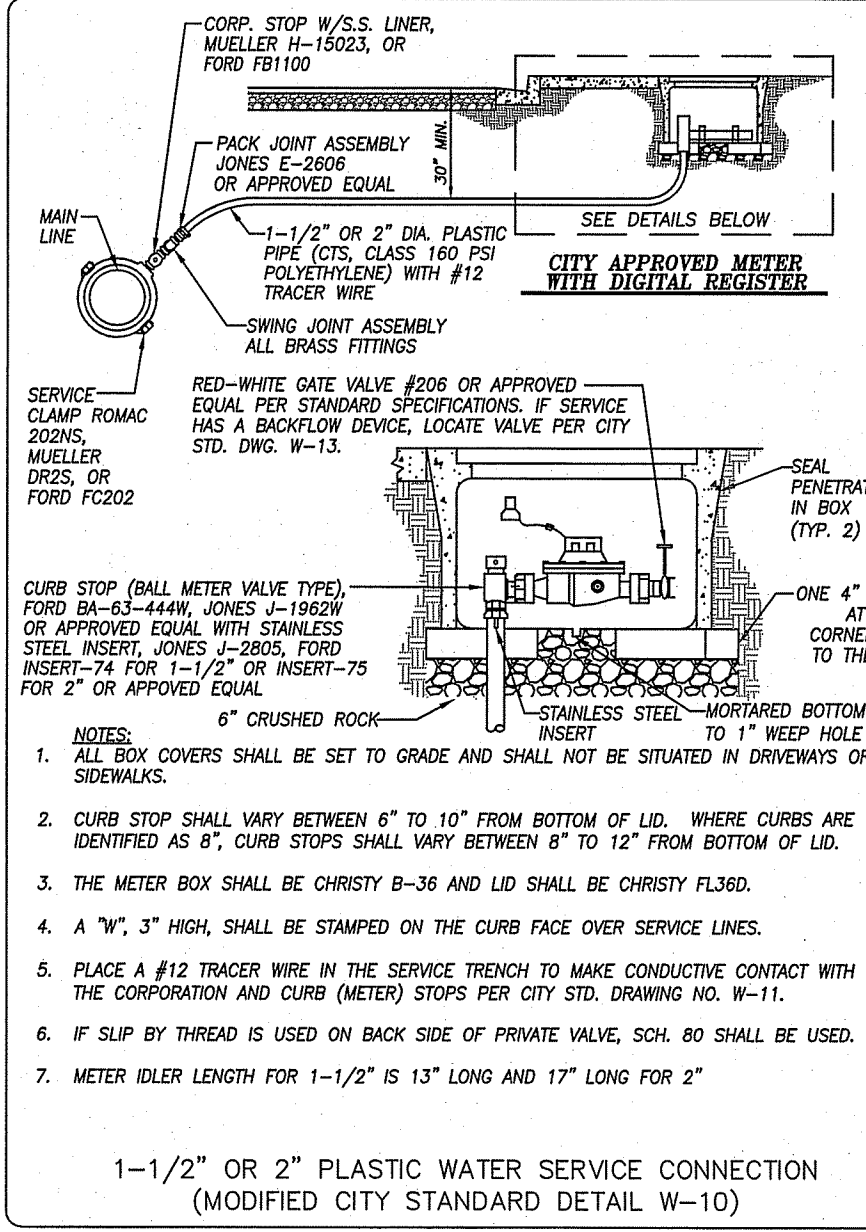
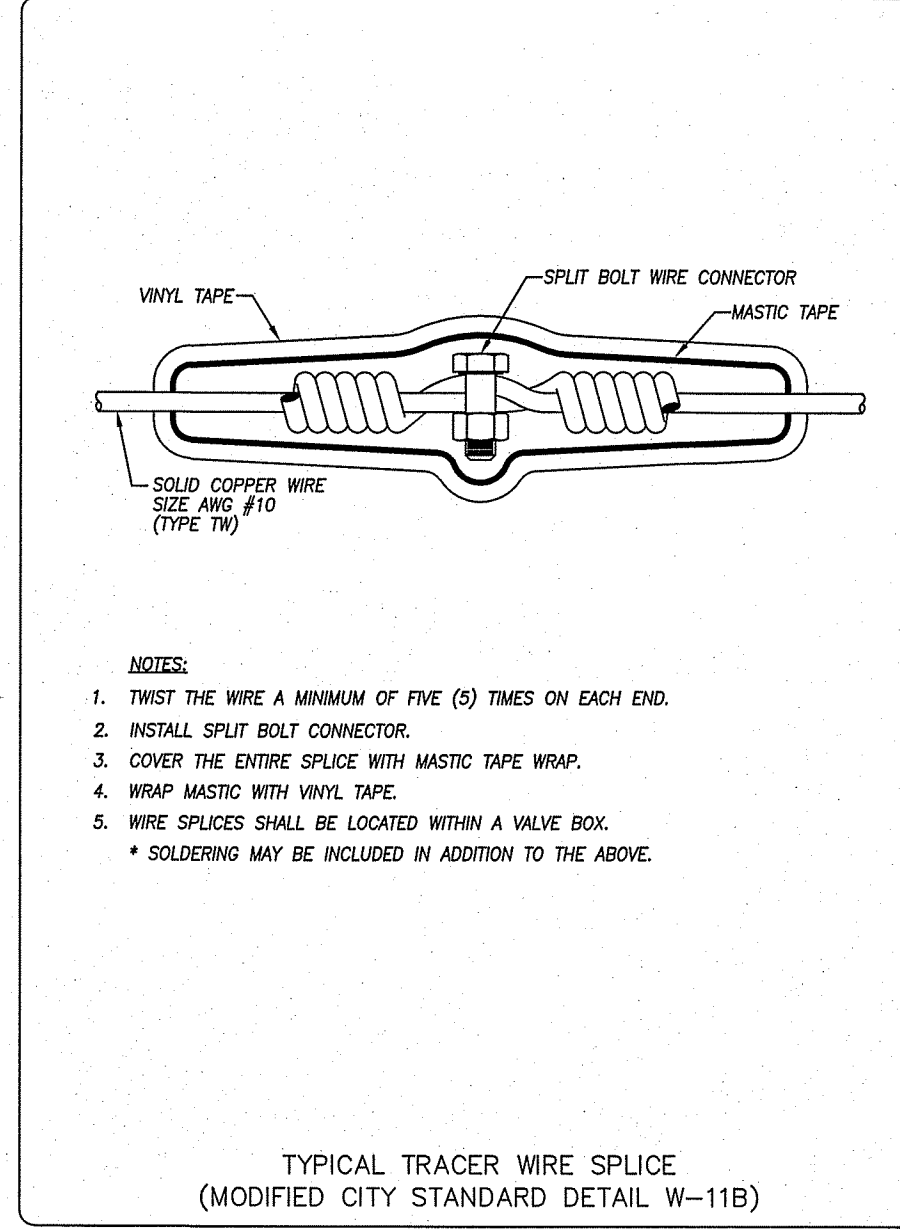
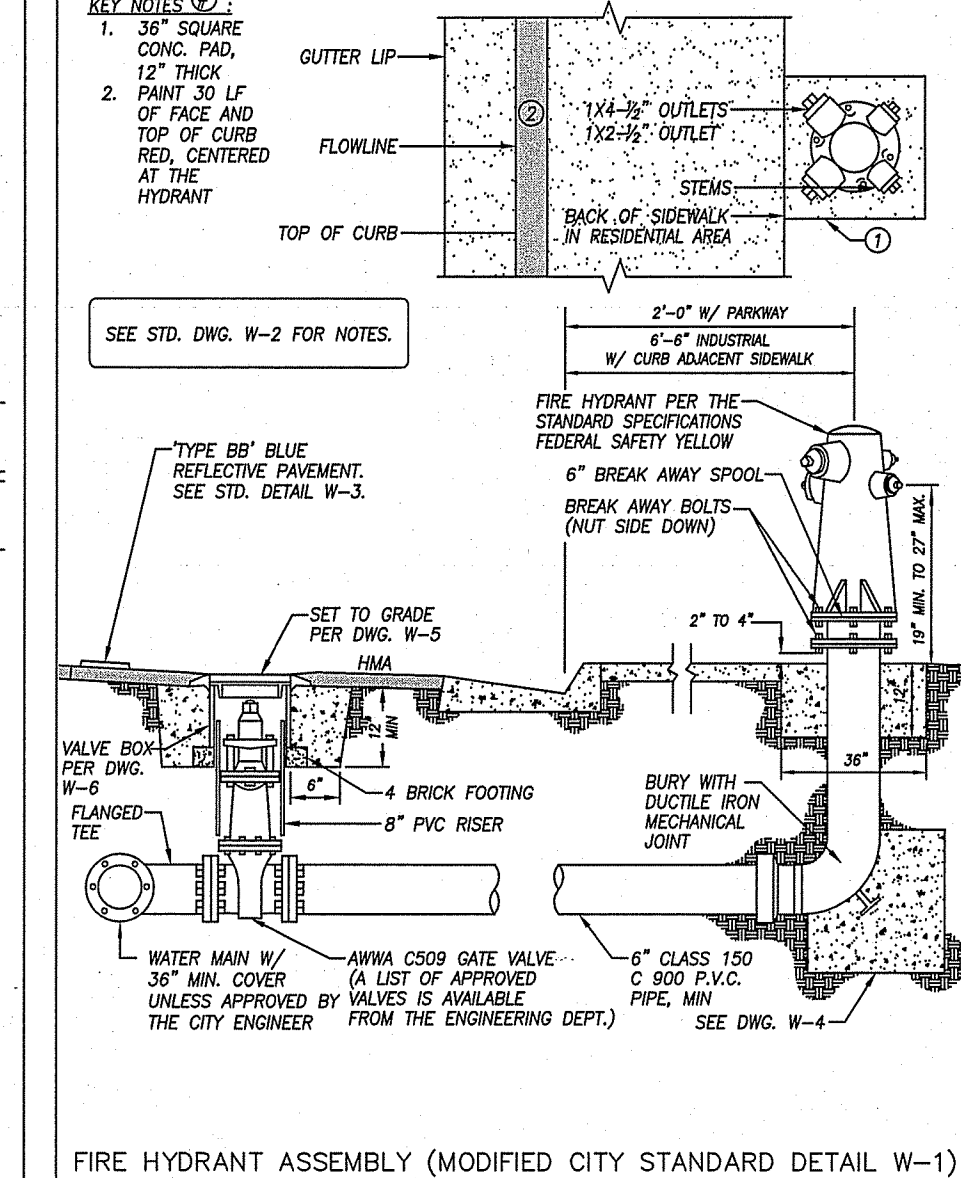
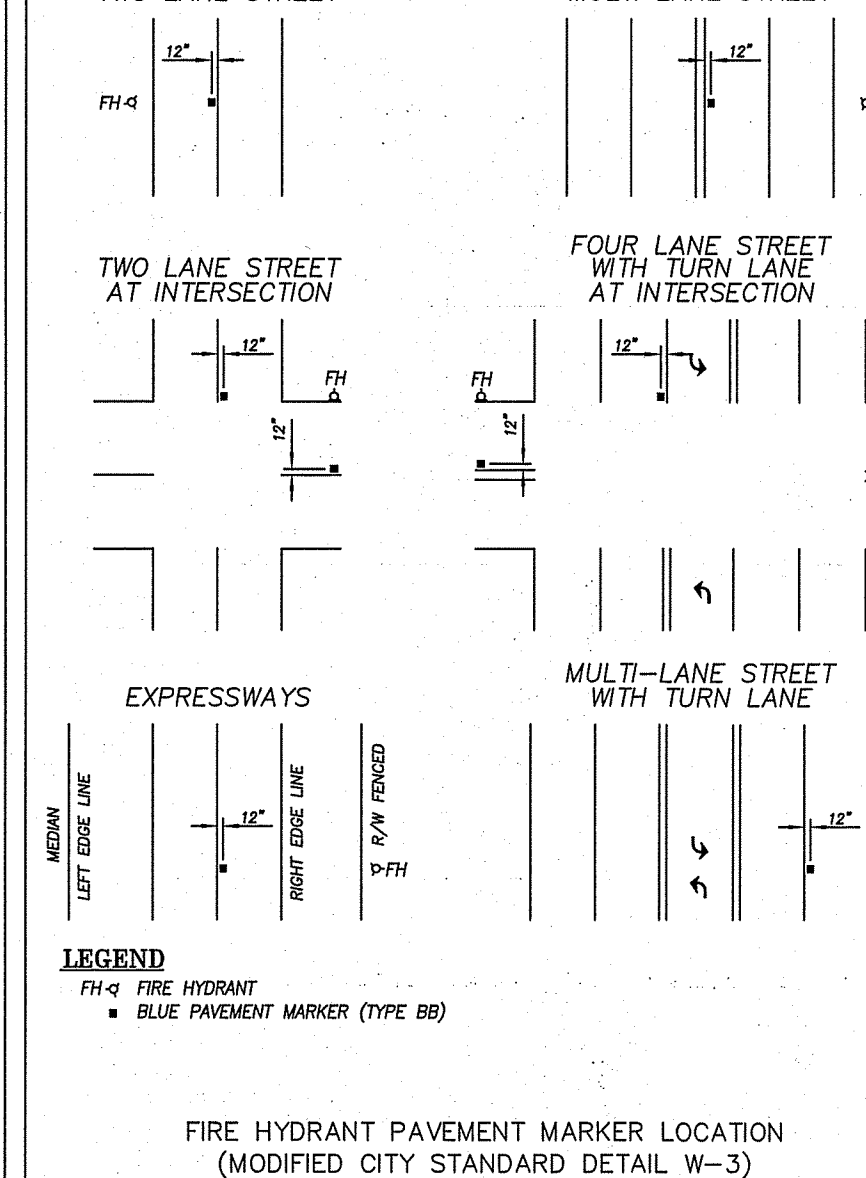
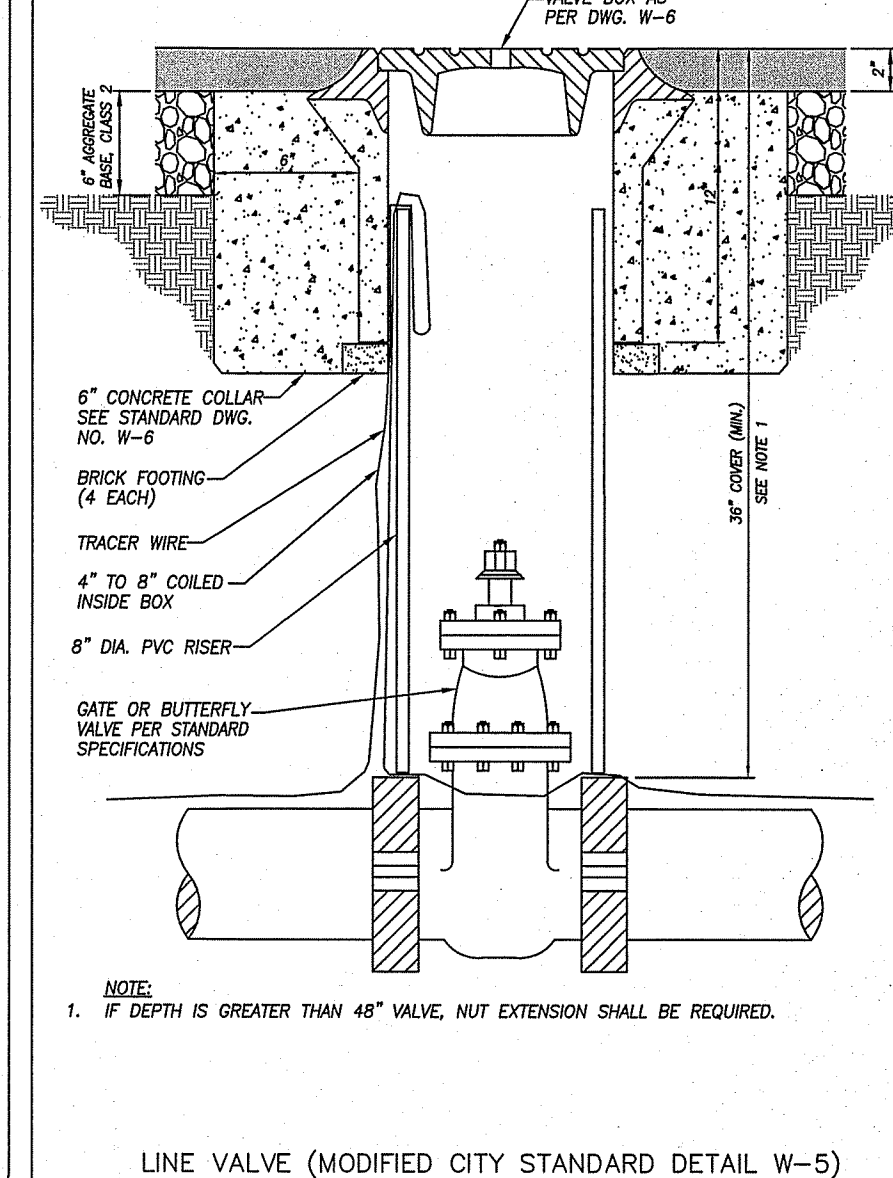
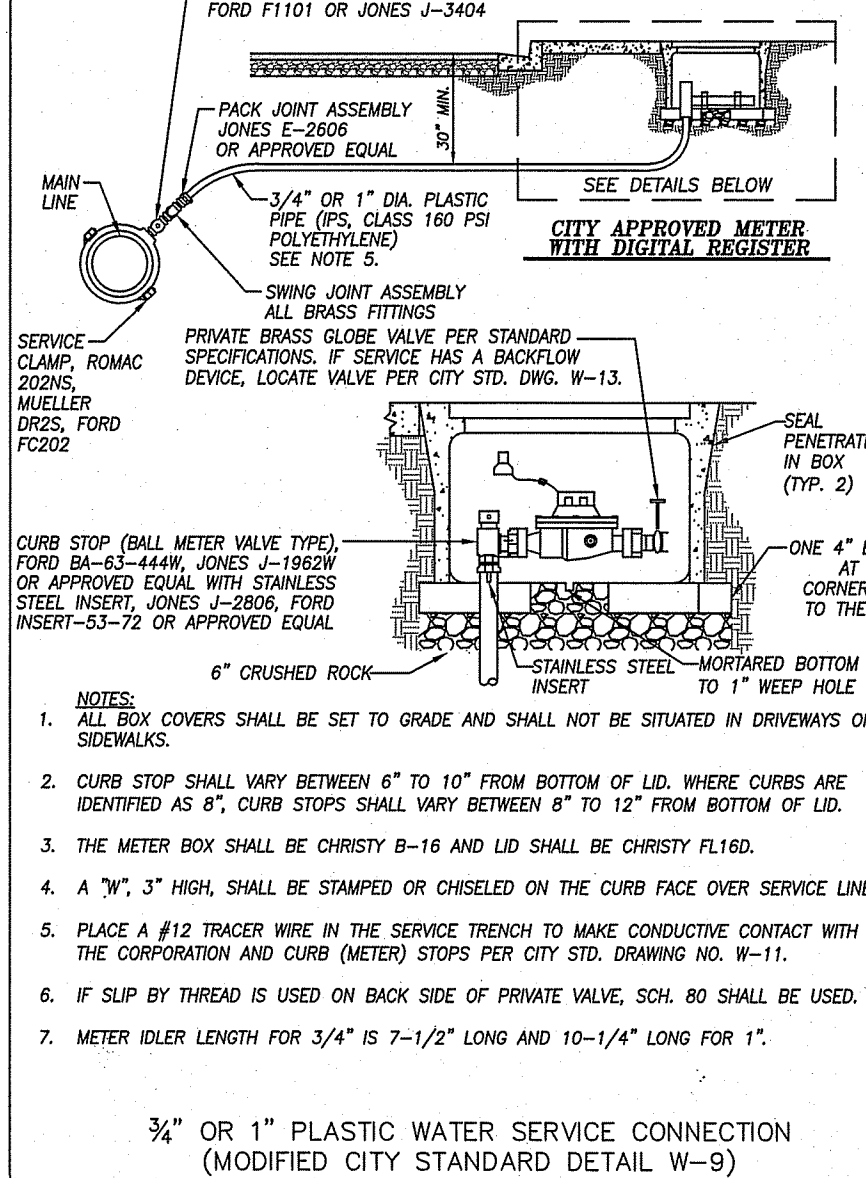
NTS 2



NOTES:

1. TRACER WIRE SHALL BE INSTALLED WITH ALL BURIED PLUMB AND SERVICES.
2. THE TRACER WIRE SHALL BE LAD WITHIN 8 INCHES OF THE PLASTIC PIPE WHERE PRACTICAL AND DIRECTLY ABOVE IF POSSIBLE.
3. THE TRACER WIRE SHOULD NOT BE WRAPPED AROUND PIPE OR CONNECTORS EXCEPT AT THE RISER.
4. THE TRACER WIRE SHALL BE APPROXIMATELY 6 INCHES ABOVE THE PIPE WHERE PRACTICAL.
5. THE TRACER WIRE SHALL BE INSTALLED SO THAT ELECTRICAL CONTINUITY IS MAINTAINED THROUGHOUT THE PIPE SYSTEM.
6. AS FEW CONNECTIONS AS POSSIBLE SHALL BE MADE IN THE TRACER WIRE. CONNECTIONS WILL BE MADE BY STRIPPING THE INSULATION BACK ONE INCH AND JOINING THE TWO ENDS USING AN APPROVED MECHANICAL CONNECTOR AND A SPLIT BOLT CONNECTOR. (TWISTING OF COPPER WIRE WILL NOT BE ACCEPTABLE.) TO COMPLETE THIS CONNECTION, WRAP ALL EXPOSED WIRE THOROUGHLY WITH ELECTRICAL TAPE.
7. A MINIMUM 5 FOOT OF ADDITIONAL TRACER WIRE WILL BE COILED, BURIED AND TERMINATE AT THE ENDS OF THE PIPELINE.
8. OF THE 5 FOOT TRACER WIRE SECTION AT THE ENDS OF THE PIPELINE, ONE FOOT OF INSULATION WILL BE STRIPPED BACK, PRIOR TO BURIAL.
9. TRACER WIRE SHALL BE SPLICED TOGETHER FOR NON-CONDUCTIVE WATER MAINS PER CITY STANDARD DRAWING NO. W-11B.

TYPICAL TRACER WIRE INSTALLATION NOTES
(MODIFIED CITY STANDARD DETAIL W-11A)



THRUST BLOCK SIZE

PIPE DIAMETER (INCHES)	HORIZONTAL BEND AREA (SQ. FT.)	HEIGHT AT BEANS (FEET)
8" OR LESS	2	1,700
8"	3	3,000
10"	3.5	4,500
12"	4	6,000
14"	5	8,000
16"	6	11,000
18"	7	13,000
20"	8	15,000
22"	9	17,000
24"	10	19,000
26"	11.5	24,000
28"	12	23,000
30"	13	24,000
32"	14	25,000
34"	15	26,000
36"	16	27,000
38"	17	28,000
40"	18	29,000
42"	19	30,000
44"	20	31,000
46"	21	32,000
48"	22	33,000
50"	23	34,000
52"	24	35,000
54"	25	36,000
56"	26	37,000
58"	27	38,000
60"	28	39,000
62"	29	40,000
64"	30	41,000
66"	31	42,000
68"	32	43,000
70"	33	44,000
72"	34	45,000
74"	35	46,000
76"	36	47,000
78"	37	48,000
80"	38	49,000
82"	39	50,000
84"	40	51,000
86"	41	52,000
88"	42	53,000
90"	43	54,000
92"	44	55,000
94"	45	56,000
96"	46	57,000
98"	47	58,000
100"	48	59,000

NOTES:

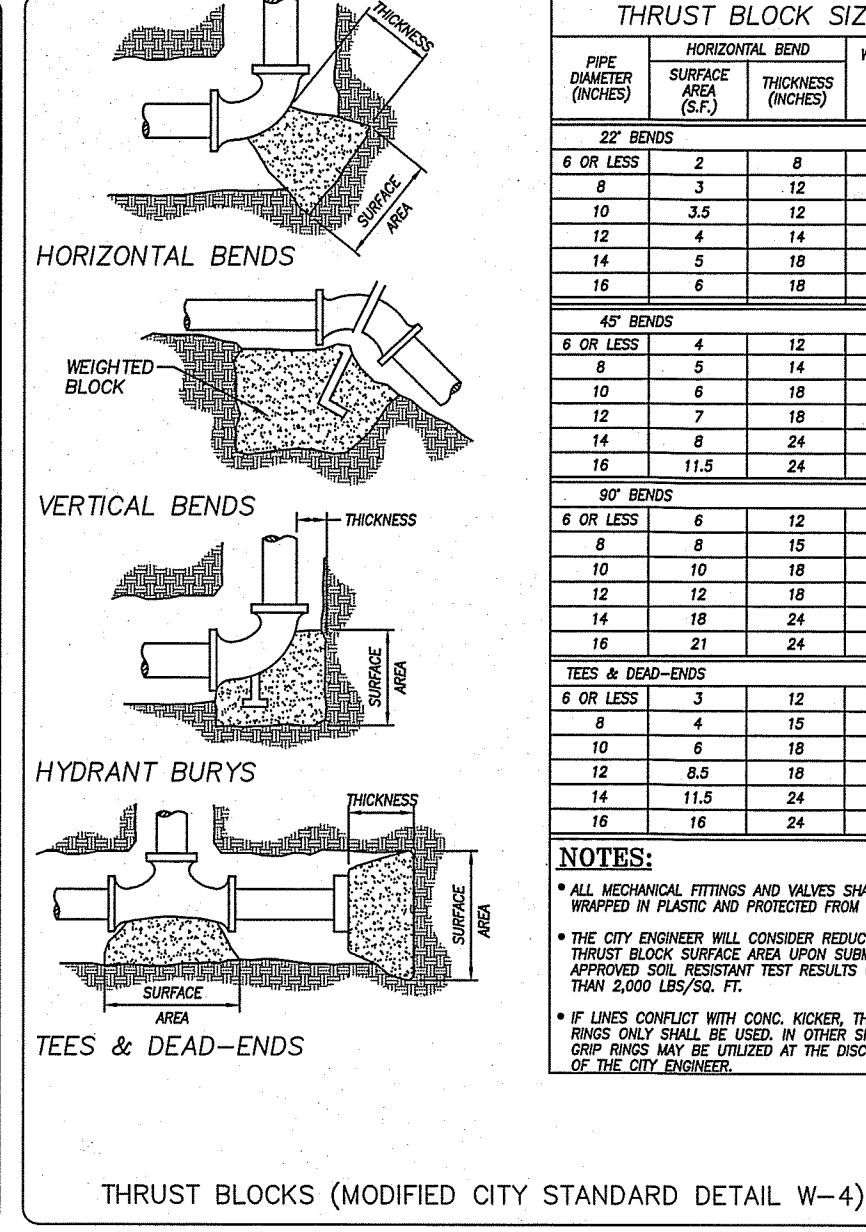
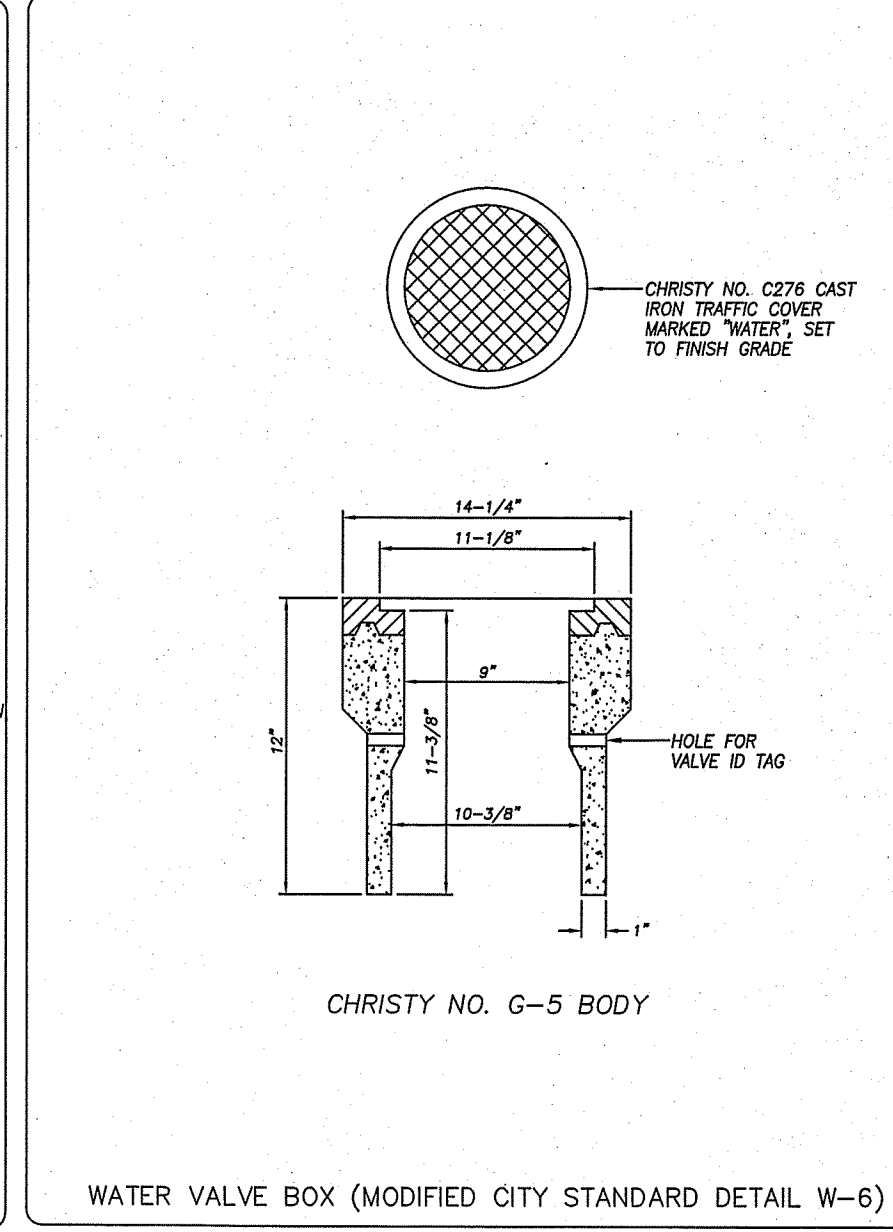
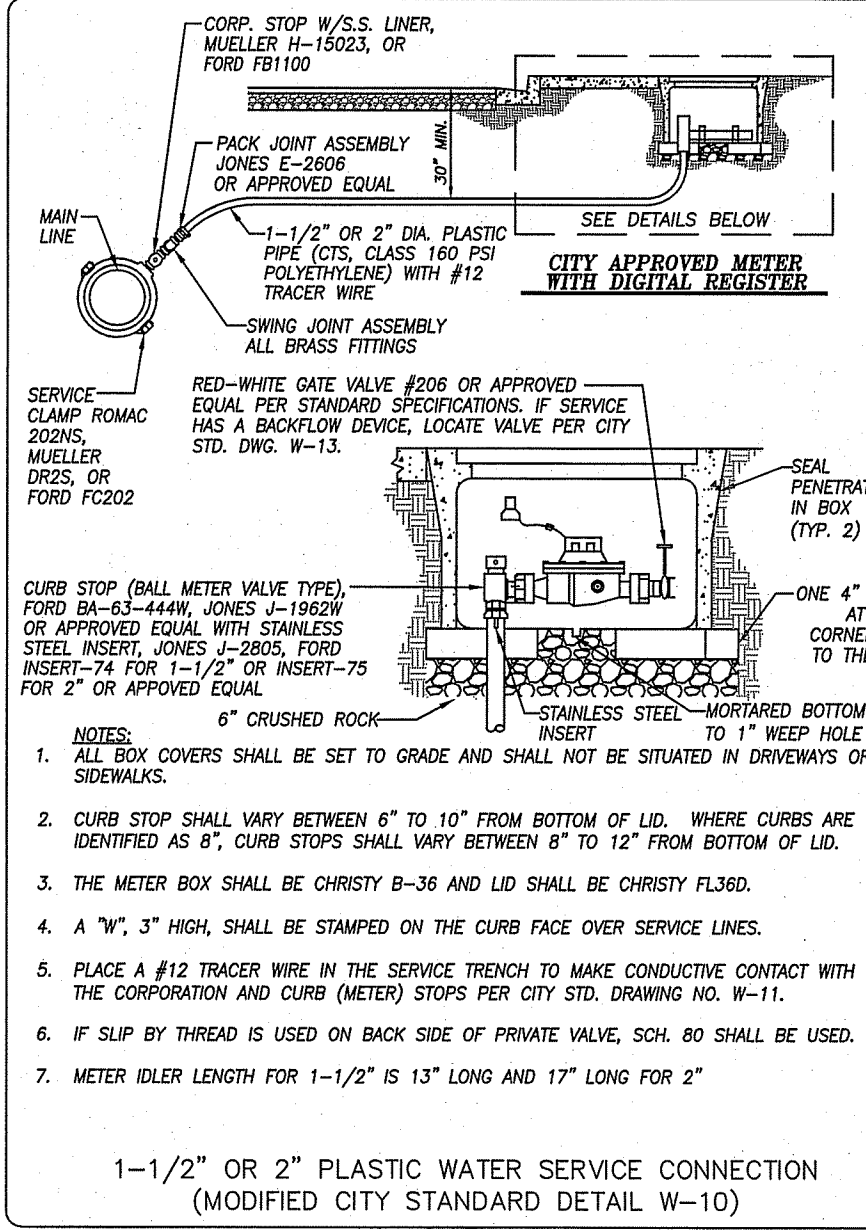
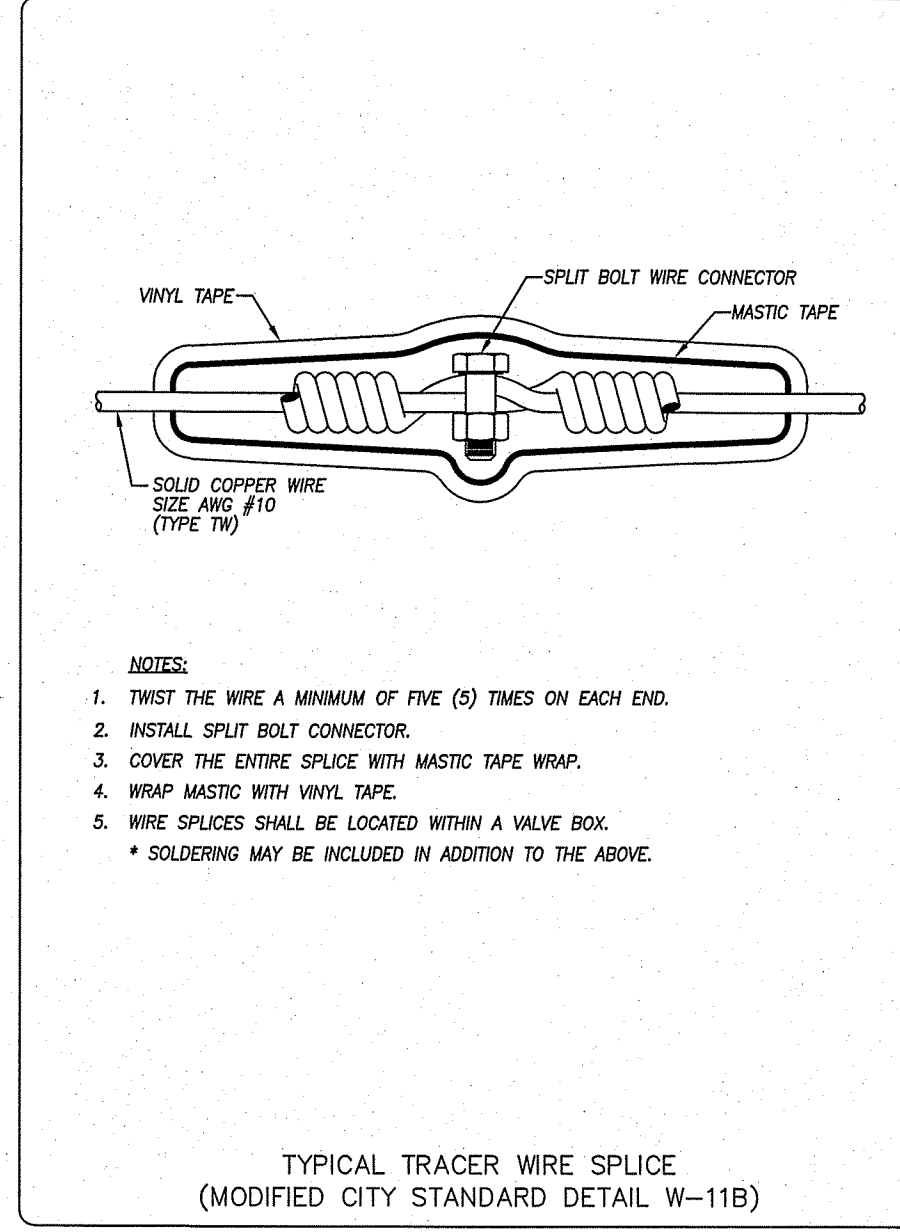
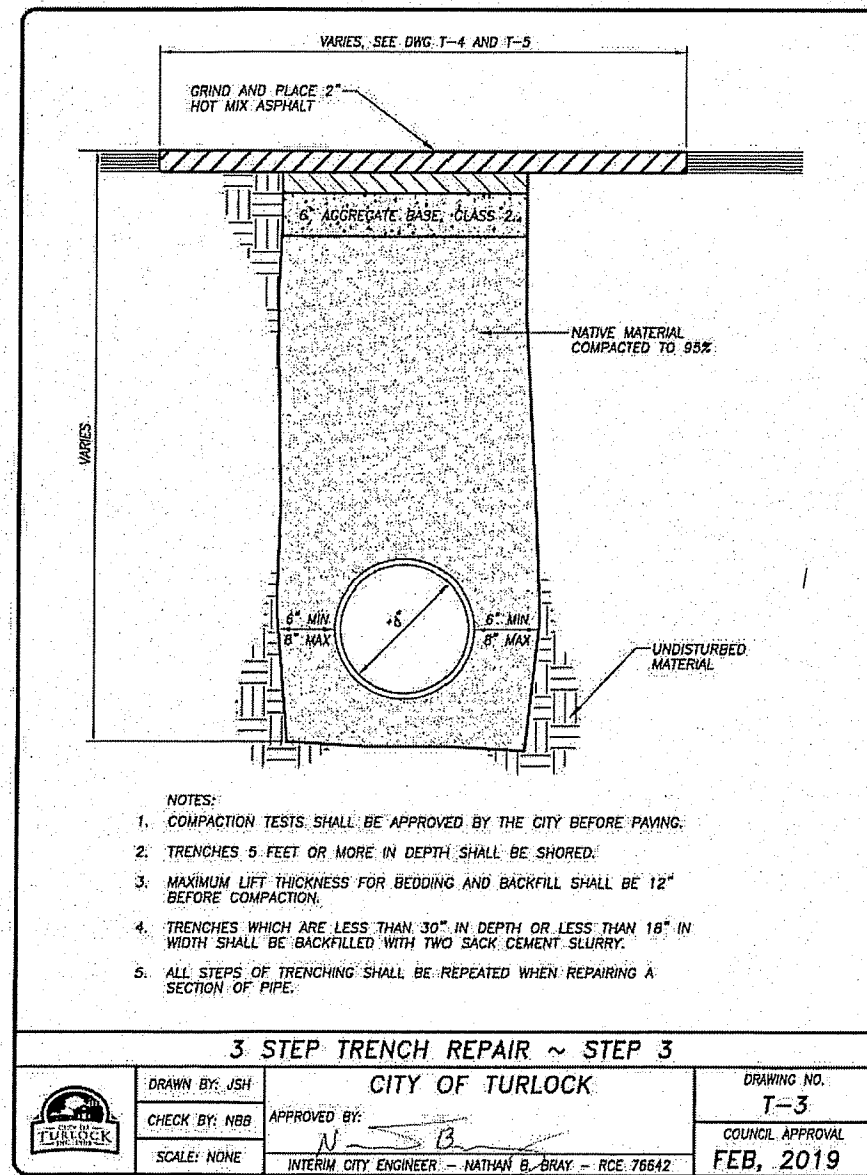
1. ALL MECHANICAL FITTINGS AND VALVES SHALL BE WRAPPED IN PLASTIC AND PROTECTED FROM CONCRETE.
2. THE CITY ENGINEER WILL CONSIDER REDUCTION OF THRUST BLOCK SURFACE AREA UPON SUBMITTAL OF APPROVED SOIL RESISTANT TEST RESULTS GREATER THAN 2,000 LBS/SQ. FT.
3. IF LINES CONTACT WITH CONC. KICKER, THEN GRP BARS ONLY SHALL BE USED. IN OTHER DRAWINGS GRP BARS MAY BE UTILIZED AT THE DISCRETION OF THE CITY ENGINEER.

THRUST BLOCKS (MODIFIED CITY STANDARD DETAIL W-4)

NOTES:

1. IN RESIDENTIAL AREAS WHERE PARKWAYS ARE EXISTING OR PROPOSED, HYDRANT SHALL BE 24 INCHES BEHIND FLOW LINE.
2. IN RESIDENTIAL AREAS WITH CURBS ADJACENT SIDEWALK, FIRE HYDRANTS SHALL BE LOCATED 50 FEET - 50 INCHES BEHIND FLOW LINE.
3. FIRE HYDRANTS SHALL BE LOCATED:
 - A. AT STREET CORNERS WHENEVER POSSIBLE
 - B. IN RESIDENTIAL ZONED AREAS, NO MORE THAN 500 FEET APART AND NOT GREATER THAN 300 FEET FROM DEAD-END STREETS
 - C. FOR ALL OTHER ZONES, NO MORE THAN 300 FEET APART AND NOT GREATER THAN 300 FEET FROM DEAD-END STREETS
4. OTHER LOCATIONS DEEMED NECESSARY BY THE CITY ENGINEER TO PROVIDE ADEQUATE FIRE PROTECTION TO THE PROPERTY.
5. ON ARTERIAL, EXPRESSWAY, OR DIVIDED COLLECTOR STREETS, AS DESIGNATED IN THE GENERAL PLAN, SPECIFICATIONS, AND MASTER PLANS, THE HYDRANT SPACING SHALL BE APPLICABLE TO EACH SIDE OF THE STREETS.
6. MINIMUM 36" CLEARANCE AROUND ALL FIRE HYDRANTS TO INCLUDE ALL DRIVEWAYS.
7. IF BOLLARDS ARE REQUIRED IN PROJECT PLANS, BOLLARDS SHALL COMPLY WITH ALL OF THE FOLLOWING REQUIREMENTS AND BE IN ACCORDANCE WITH CITY STD. DWG. ST-22.
 - A. SPACED NOT MORE THAN 3 FEET FROM THE PROTECTED OBJECT.
 - B. LOCATED NOT LESS THAN 3 FEET FROM THE PROTECTED OBJECT.

FIRE HYDRANT LOCATIONS (MODIFIED CITY STANDARD DETAIL W-2)



NOTE TO CONTRACTOR:
CITY, COUNTY AND MANUFACTURER'S STANDARD PLANS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL OBTAIN THE MOST CURRENT STANDARD DRAWINGS PRIOR TO CONSTRUCTION.

CAUTION: UNAUTHORIZED CHANGES AND USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY ENGINEER.

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CITY OF TURLOCK
WATER LINE REPLACEMENT PLANS
CITY STANDARD DETAILS

SCALE: NOT TO SCALE DATE: 03/16/2024
Dwg No. 23052SSGN.dwg Layout: 21-CITY SHEET: 21 of 21
DRAWN: JA CHECKED: FILE NO. 23052

DESCRIPTION	DATE	BY