

LOCATION MAP
NOT TO SCALE

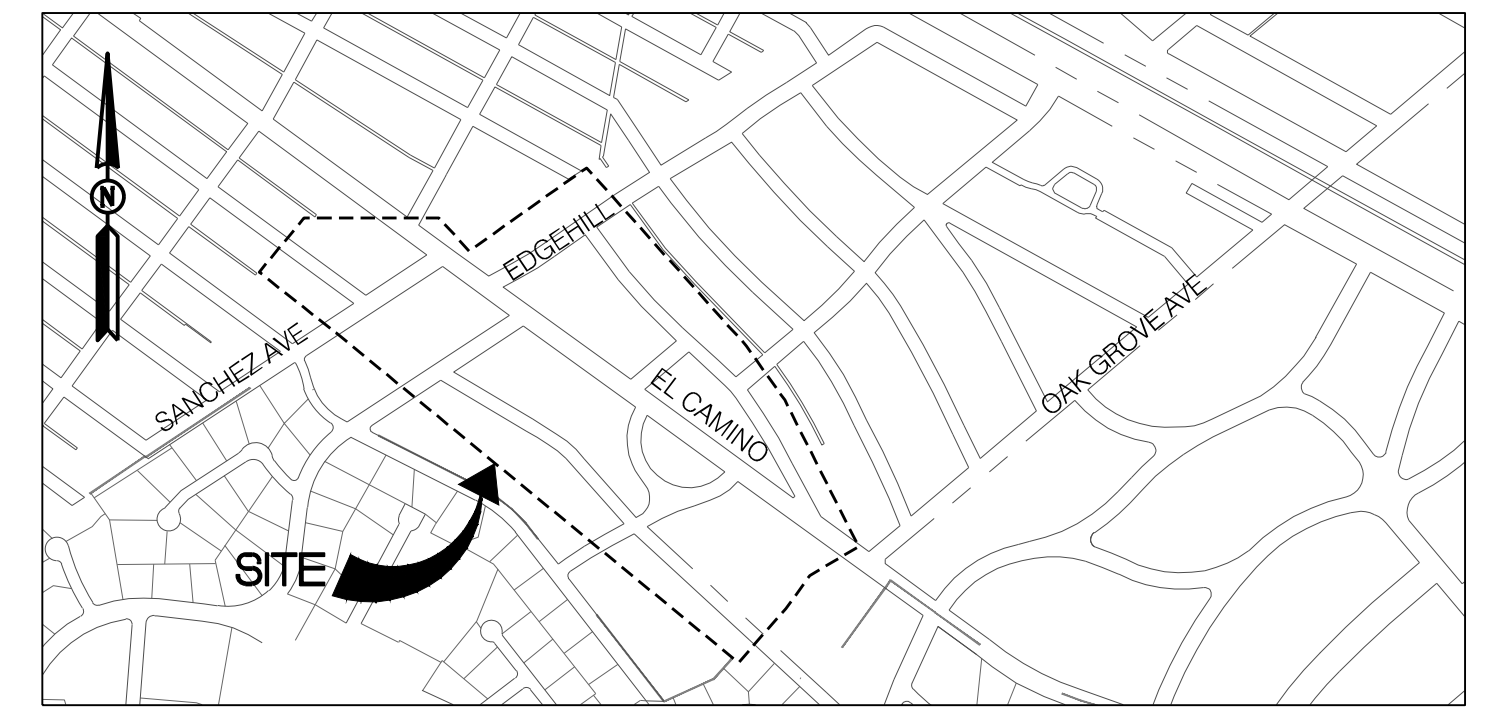
CITY OF BURLINGAME

SAN MATEO COUNTY, CALIFORNIA

WEST BURLINGAME TERRACE

WATER MAIN REPLACEMENT

CITY PROJECT No. 84893



VICINITY MAP
NOT TO SCALE

BENCHMARK/DATUM

BENCHMARK - CITY OF BURLINGAME BM#2026
DESCRIPTION - 2" BRONZE ALLOY DISK WITH PUNCH IN SIDEWALK ADJACENT TO ASPHALT BLACKTOP PLAYGROUND "PERSHING PARK" IN NORTHWEST QUADRANT OF PARK, LOCATED AT 138 CRESCENT AVENUE
ELEVATION - 54.61
VERTICAL DATUM - NAVD88
HORIZONTAL DATUM - NAD83; CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 3

RECORD DRAWINGS

CONTRACTOR SHALL KEEP ACCURATE RECORD DRAWINGS WHICH SHOW THE FINAL LOCATION, ELEVATION, AND DESCRIPTION OF ALL WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF ANY EXISTING IMPROVEMENTS ENCOUNTERED. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS AND GIVEN TO THE OWNER UPON COMPLETION OF WORK.

UNAUTHORIZED CHANGES

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

REVISIONS

ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY WILSEY HAM AND THE CITY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS.

ACCURACY

AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF WILSEY HAM PRIOR TO START OF CONSTRUCTION OF THE PARTICULAR ITEM OF WORK.

ACCURACY OF UTILITIES

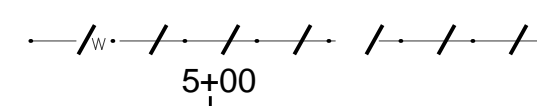
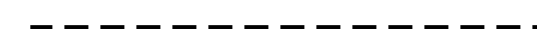
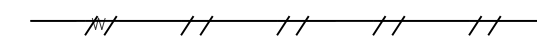
EXISTING UTILITY INFORMATION WAS PROVIDED TO WILSEY HAM AND MAY NOT HAVE BEEN VERIFIED IN THE FIELD. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND REPORT ANY CONFLICTS TO WILSEY HAM BEFORE CONSTRUCTION BEGINS.

CONSTRUCTION STAKING SERVICES

CONSTRUCTION LAYOUT MUST BE PROVIDED BY CONTRACTOR. WILSEY HAM CAN PROVIDE CONSTRUCTION STAKING SERVICES FOR THIS PROJECT. CONTACT ROBERT HUTTON AT 650-349-2151 FOR MORE INFORMATION ON THESE SERVICES AND A FEE PROPOSAL.

LEGEND

PROPOSED



EXISTING

----- APPROX. PROPERTY LINE

----- EASEMENT

----- ABANDON UTILITY

--- g --- GAS LINE

--- sd --- STORM DRAIN PIPE

--- ss --- SANITARY SEWER PIPE

--- u --- oh --- OVER HEAD UTILITY LINE

--- w --- WATER LINE(PLAN)

--- w --- WATER SERVICE LINE (CITY)

--- w --- WATER SERVICE LINE (CUSTOMER)

--- sfw --- SFPUC WATER MAIN

--- thw --- TOWN OF HILLSBOROUGH WATER MAIN

----- EDGE OF PAVEMENT

----- REMOVE UTILITY

----- CONTROL LINE & STATION

SANITARY SEWER MANHOLE

SANITARY SEWER CLEANOUT

STORM DRAIN MANHOLE

STORM DRAIN CATCH BASIN

WATER CONNECTION POINT

WATER SAMPLING STATION

WATER METER

FIRE HYDRANT

WATER VALVE

BLOW OFF VALVE

AIR RELEASE VALVE

ELECTRIC PULLBOX

UTILITY BOX

JOINT POLE

POTHOLE LOCATION

APPROXIMATE DRIVEWAY LOCATION

APPROXIMATE TREE LOCATION

ABBREVIATIONS

ABDN	ABANDON	MH	MANHOLE
AB	AGGREGATE BASE	MIN	MINIMUM
AC	ASPHALT CONCRETE	MJ	MECHANICAL JOINT
ACP	ASBESTOS CEMENT PIPE	MON	MONUMENT
AIE	ASSUMED INVERT ELEVATION	(N)	NEW
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ARV	AIR RELIEF VALVE	OH	OVERHEAD
BFV	BUTTERFLY VALVE	PRV	PRESSURE REDUCING VALVE
BO	BLOW OFF	PUE	PUBLIC UTILITY EASEMENT
CIP, CI	CAST IRON PIPE	PVC	POLYVINYL CHLORIDE
CLR	CLEAR, CLEARANCE	R	RADIUS
CL	CENTERLINE	(R)	RECORD UTILITY
CON	CONCRETE	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RFCA	RESTRAINED FLANGE COUPLING-ADAPTER
DWY	DRIVEWAY	RT	RIGHT
EG	EXISTING GROUND	R/W	RIGHT-OF-WAY
EL, ELEV	ELEVATION	SD	STORM DRAIN
ELEC	ELECTRIC	SDCB	STORM DRAIN CATCH BASIN
(E), EX	EXISTING	SDMH	STORM DRAIN MANHOLE
FC	FACE OF CURB	SHT	SHEET
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSCO	SANITARY SEWER CLEANOUT
FL	FLANGE	SSMH	SANITARY SEWER MANHOLE
FO	FIBER OPTIC	STA	STATION
FS	FIRE SERVICE	TC	TOP OF CURB
FT	FOOT OR FEET	TH	TOWN OF HILLSBOROUGH
(F), FU	FUTURE	TYP	TYPICAL
G	GAS	VERT	VERTICAL
GV	GATE VALVE	VIF	VERIFY IN THE FIELD
HORIZ	HORIZONTAL	W	WATER
INV	INVERT ELEVATION	WM	WATER METER
LAT	LATERAL	WS	WATER SERVICE
LF	LINEAR FEET	WV	WATER VALVE
LT	LEFT	XING	CROSSING
MAX	MAXIMUM		

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H:\140-Burlingame\140-115 Burlingame Terrace Water Main Replacement\Engineering\Construction Drawings\G1-G2-TITLE SHEET.dwg 3-26-24 03:01:57 PM plouinger

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	BY	DATE
	03/28/24	ISSUE FOR BID	BSD		

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CITY OF BURLINGAME
SAN MATEO COUNTY CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
LEGEND, ABBREVIATIONS & GENERAL NOTES
WH PROJ. NO. 140-115 CP #84893

APPROVAL RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.	
ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26 R.C.E. NO. 42634	
DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24 DESIGN: CTL DATE: 03/28/24 DRAWN: DMM/PJB DATE: 03/28/24 CHECKED: BSD DATE: 03/28/24	<p>SHEET G1 OF 22 SHEETS</p>

GENERAL NOTES

- NOTES ON THESE PLANS ARE WRITTEN TO THE BIDDER BEFORE AWARD AND THE CONTRACTOR AFTER. BEFORE AWARD, INTERPRET SENTENCES WRITTEN IN THE IMPERATIVE MOOD AS STARTING WITH "THE BIDDER MUST" AND INTERPRET "YOU" AS THE "BIDDER" AND "YOUR" AS "THE BIDDER'S". AFTER AWARD INTERPRET SENTENCES WRITTEN IN THE IMPERATIVE MOOD AS "THE CONTRACTOR MUST" AND INTERPRET "YOU" AS "THE CONTRACTOR" AND "YOUR" AS "THE CONTRACTORS".
- PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE 2018 CALTRANS STANDARD SPECIFICATIONS AND THE STANDARD PLANS, THE CITY OF BURLINGAME SPECIFICATIONS AND STANDARD PLANS, AND AS SHOWN ON THESE PROJECT PLANS AND SPECIAL PROVISIONS.
- THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.
- NOTIFY THE CITY ENGINEER IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS. GIVE THE CITY OF BURLINGAME ENGINEERING DEPARTMENT AT LEAST THREE (3) WORKING DAYS ADVANCE NOTICE PRIOR TO BEGINNING OF ACTUAL WORK AND ALL REQUIRED INSPECTION REQUESTS, AT (650) 558-7230.
- NOTIFY THE CITY ENGINEER OF ANY DISCREPANCIES OR UNUSUAL CONDITIONS ASSOCIATED WITH EXISTING CONDITIONS, THE PLANS, DETAILS OR CONSTRUCTION NOTES FIVE (5) DAYS PRIOR TO FINALIZATION OF BIDS AND COMMENCEMENT OF ANY CONSTRUCTION.
- HORIZONTAL AND VERTICAL DIMENSIONS PROVIDED ON THE DRAWINGS ARE BASED ON FIELD MEASUREMENTS. ADJUSTMENTS MAY BE MADE BY THE ENGINEER DURING CONSTRUCTION. PAYMENT WILL BE BASED ON QUANTITIES INSTALLED.
- YOU ARE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.
- INTERPRET NOTES APPEARING ON THESE PLANS AS REFERRING TO INCIDENTAL WORK REQUIRED FOR THE ACTIVITIES SPECIFICALLY LISTED IN THE BID SCHEDULE. NO ADDITIONAL COMPENSATION IS ALLOWED FOR ACTIVITIES OTHER THAN THOSE LISTED IN THE BID SCHEDULE.
- PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND APPARATUS NOT SPECIFICALLY MENTIONED ON THE PLANS OR SPECIFICATIONS, BUT WHICH ARE NECESSARY TO COMPLETE THE CONTRACTED WORK.
- EXISTING UTILITY, DRIVEWAY, SIGN AND TREE LOCATIONS & QUANTITIES ARE APPROXIMATE ONLY.

PERMITS AND REGULATIONS

- COMPLY WITH THE RULES AND REGULATIONS OF THE STATE'S CONSTRUCTION SAFETY ORDERS.
- IMMEDIATELY REPORT ANY SOIL OR WATER CONTAMINATION NOTICED DURING CONSTRUCTION TO THE CITY OF BURLINGAME.
- ADHERE TO ALL REQUIREMENTS OF THE SAN MATEO COUNTY HEALTH SERVICES AGENCY.
- CONSTRUCTION HOURS ARE 8AM TO 5PM MONDAY THROUGH FRIDAY, EXCEPT IN THE CASE OF URGENT NECESSITY IN THE INTEREST OF PUBLIC HEALTH AND SAFETY, AND THEN ONLY WITH THE EXPRESS WRITTEN PERMISSION OF THE ENGINEER.
- OBTAIN AN ENCROACHMENT PERMIT FROM THE TOWN OF HILLSBOROUGH FOR TRAFFIC CONTROL, WORK STAGING, AND ANY CONSTRUCTION OR RELATED ACTIVITIES PERFORMED ON WALNUT AVENUE, WILLOW AVENUE, AND ANY OTHER AREAS WITHIN TOWN OF HILLSBOROUGH LIMITS.

SURVEY NOTES

- PROTECT ANY SURVEYING MONUMENTS FOUND WITHIN PROJECT AREA, AND FURTHER, YOU ARE FINANCIALLY RESPONSIBLE FOR RESETTLEMENT MONUMENTS DAMAGED OR DESTROYED BY THE CONSTRUCTION OPERATIONS INCLUDING FILING THE CORNER RECORD(S) AS REQUIRED BY LAW.
- YOU MUST SATISFY YOURSELF AS TO THE CORRECTNESS OF THE EXISTING TOPOGRAPHY, UTILITIES, AND EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT.

EROSION CONTROL

- EROSION CONTROL MEASURES MUST BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT RUNOFF TO PUBLIC DRAINAGE FACILITIES, ADJACENT PROPERTIES AND THE SAN FRANCISCO BAY.
- DURING THE PROGRESS OF THE CONSTRUCTION WORK MAINTAIN THE PREMISES IN A NEAT AND CLEAN CONDITION, DISPOSING OF REFUSE IN A SATISFACTORY MANNER AS OFTEN AS DIRECTED OR AS MAY BE NECESSARY SO AT NO TIME IS THERE ANY UNSIGHTLY ACCUMULATION OF RUBBISH AT THE JOB SITE.
- YOU ARE RESPONSIBLE FOR ANY DAMAGE TO THE SITE OR SURROUNDING AREA DUE TO DUST AND/OR EROSION, RESULTING FROM WORK. YOU MUST PROVIDE A SEVEN (7) DAY PHONE NUMBER TO RECEIVE AND RESPOND TO DUST COMPLAINTS. SAID PHONE NUMBER MUST BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE. NOTIFY ALL BUSINESSES AND RESIDENTS WITHIN 300' OF THE PROJECT BY MAIL PRIOR TO ANY CONSTRUCTION WITH INFORMATION AND COMPLAINT LINES TO BE CALLED.
- REMOVE/CLEAN ANY SEDIMENT FROM INLETS. DURING STORM EVENTS ENSURE THAT THE DRAINS ARE DRAINING ADEQUATELY AND NOT CAUSING ANY FLOODING IN THE AREA OR CREATING HAZARD TO PEDESTRIANS AND VEHICLES.
- UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE MUST BE CLEAN AND FREE OF CONSTRUCTION WASTE, RUBBISH AND DEBRIS OF ANY NATURE TO THE SATISFACTION OF THE CITY ENGINEER.

CONCRETE GENERAL NOTES

- COMPACT SUBGRADE TO AT LEAST 95% RELATIVE COMPACTION. WHERE SUBGRADE CAN NOT BE COMPACTED TO 95% REMEDIAL METHODS MUST BE INCORPORATED IN THE WORK.
- WHERE UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, REMEDIAL WORK TO BE DONE UNDER THE DIRECTION OF THE CITY ENGINEER INCLUDES BUT IS NOT LIMITED TO, REMOVING UNSUITABLE MATERIAL TO A MINIMUM DEPTH OF 6" AND PLACING A LAYER OF GEOTECHNICAL FABRIC AND CLASS 2 AGGREGATE BASE COMPACTED TO 95% UNDER THE INSTALLATION.
- OVER-EXCAVATED SUBGRADE FOR GUTTER OR SIDEWALK MUST BE BACK-FILLED WITH CLASS 2 AGGREGATE BASE.
- EXISTING CONCRETE MUST BE REMOVED AT EXPANSION OR WEAKENED PLANE JOINTS BY SAWCUTTING.
- SAW CUTS MUST BE FULL DEPTH.
- NEW WORK MUST MATCH EXISTING IN SCORE, FINISH, PATTERN AND COLOR.
- THOROUGHLY WET SUBGRADE IMMEDIATELY PRIOR TO PLACING CONCRETE.
- SEE PROJECT SPECIFICATIONS FOR CONCRETE TYPE AND FINISHES.
- CONCRETE MUST HAVE A SLUMP OF NOT MORE THAN 4 INCHES.
- DO NOT USE CONCRETE ADMIXTURES WITHOUT THE APPROVAL OF THE CITY ENGINEER.
- PLACE 1/2-INCH THICK EXPANSION JOINTS ON BOTH SIDES OF DRIVEWAY APPROACHES, CURB, GUTTER AND SIDEWALK RETURN POINTS AND AT 20' FEET ON CENTER.
- PLACE WEAKENED PLANE JOINTS AT LEAST 1-1/2 INCHES DEEP AT THE CENTER OF DRIVEWAYS AND 20' ON CENTER.
- PLACE 1/4-INCH DEEP SCORE MARKS AS DESCRIBED IN THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE CITY ENGINEER.
- DO NOT PLACE CONCRETE UNTIL THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE HAS INSPECTED AND APPROVED FORMS AND SUBGRADE.
- ROUND ALL EXPOSED EDGES IN FLATWORK WITH 1/2-INCH RADIUS TOOL.
- ALL CONCRETE SURFACES MUST BE BROOM FINISHED.
- REPLACE CURBS, SIDEWALKS AND DRIVEWAY APPROACHES WITHIN 7 DAYS AFTER REMOVING CONCRETE. THIS INCLUDES ANY REQUIRED AC PATCHWORK.
- FORM FACES MUST NOT VARY FROM THE DIMENSIONS SHOWN BY MORE THAN 0.02 FEET. FORMS MUST MEET GRADE.
- UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS, CURE CONCRETE BY MEANS OF THE IMPERVIOUS MEMBRANE METHOD.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE PERFORMED BY A CALIFORNIA LICENSED CLASS A CONTRACTOR. A CONCRETE CONTRACTOR WITH A CLASS C LICENSE MAY PERFORM CONCRETE FLAT WORK.
- A MINIMUM WIDTH OF 12" OF ASPHALT MUST BE REMOVED BY SAWCUTTING ALONG THE GUTTER LIP FOR THE INSTALLATION OF FORMS. FOR CURB AND GUTTER INSTALLATIONS, BRING AC TO FINISH GRADE OF FORMS AND TRANSITION AS REQUIRED BY THE CITY ENGINEER.
- ALL ASPHALT REPAIRS MUST BE FLUSH WITH THE ADJACENT SURFACES AT CONFORMS AND EDGES. MAXIMUM ALLOWABLE TOLERANCES ARE 0.01" LONGITUDINALLY AND 0.02" TRANSVERSELY.

CONSTRUCTION NOTES

- POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
- REPLACE OR REPAIR, AT YOUR SOLE EXPENSE, ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED FACILITIES, WALLS, FENCES, SERVICES, UTILITIES, STRIPING, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, TO THEIR ORIGINAL CONDITION, WHETHER SHOWN ON THE PLANS OR NOT; PROVIDED SUCH REPAIR OR REPLACEMENT IS CAUSED BY CONTRACT WORK OPERATIONS.
- MAINTAIN ALL JOB SITE FACILITIES UNTIL ACCEPTED BY THE CITY.
- PLACE ALL EXCAVATION SPOILS DIRECTLY INTO TRUCKS AND DISPOSE OF AT AN APPROVED DUMPSITE.
- THE FOLLOWING CONTROL MEASURES FOR CONSTRUCTION ACTIVITIES MUST BE ADHERED TO, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
 - DO NOT BEGIN ANY CONSTRUCTION WORK EARLIER THAN 8:00AM AND BE COMPLETE BY 5:00PM, MONDAY THROUGH FRIDAY. NIGHT WORK IS NOT ALLOWED UNLESS AUTHORIZED IN WRITING BY THE ENGINEER.
 - YOU ARE RESPONSIBLE FOR THE DISPOSAL OF ANY EXCESS MATERIALS FROM THE WORK SITE.
 - STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT IS NOT ALLOWED IN OR UPON THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS INTENDED FOR USE ON THE PROJECT MUST BE OFF-LOADED DIRECTLY FROM DELIVERY VEHICLES AND PLACED AS REQUIRED DURING THE COURSE OF CONSTRUCTION. SHOULD YOU OR YOUR SUB-CONTRACTORS WISH TO STOCKPILE MATERIALS NEAR THE WORK SITE, YOU MUST MAKE ARRANGEMENTS IN ADVANCE FOR STORAGE. ALL STORAGE SITES MUST BE SECURE, INACCESSIBLE TO THE GENERAL PUBLIC, AND KEPT FREE OF CONSTRUCTION SPOILS, DEBRIS, AND TRASH AT ALL TIMES. STORAGE SITES ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY ENGINEER.
 - SUPPLY AND MAINTAIN SANITARY FACILITIES FOR THE WORKERS AT THE CONSTRUCTION SITE.
- MAINTAIN AND KEEP ALL VEHICULAR & PEDESTRIAN TRAFFIC ACCESS OPEN TO SURROUNDING RESIDENCES UNLESS APPROVED BY THE ENGINEER.
- PROVIDE NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD)

UTILITY COMPANY	UTILITY	TELEPHONE NO.
PG&E	GAS, ELECTRIC	650-558-7492
TELEPHONE	AT&T	408-635-8879
CALWATER	WATER	650-558-7800
COMCAST	CABLE	650-259-7008
LEVEL 3 COMM	COMM	303-992-9931
MASTEC	COMM	408-483-7328
MCI	COMM	469-886-4238
SFPUC WATER	WATER	650-872-5978
SONIC	COMM	707-791-5391
TELEPORT COMM SFO	COMM	530-841-0621
WAVE BROADBAND	COMM	925-322-7806
ZAYO	COMM	408-350-6316
CITY OF BURLINGAME	SEWER	650-558-7230
	STORM DRAIN	
	WATER	
TOWN OF HILLSBOROUGH	SEWER	650-375-7444
	STORM DRAIN	
	WATER	
- YOU MUST COORDINATE THE CONSTRUCTION OPERATIONS WITH ALL UTILITIES COMPANIES WHICH ARE TO RELOCATE OR INSTALL THEIR UTILITIES TO ACHIEVE AN EFFICIENT SCHEDULE OF OPERATIONS THAT DOES NOT DELAY CONSTRUCTION.
- AS PART OF THE PRE-BID INSPECTION, BIDDERS MUST VISIT THE SITE AND NOTE THE TYPE AND LOCATION OF OVERHEAD UTILITIES IN THE PROPOSED WORK AREA. BIDDERS PRICE MUST INCLUDE PROVISIONS FOR WORKING IN AREAS WHERE OVERHEAD UTILITIES EXIST AT THE TIME OF BIDDING, WHETHER SHOWN ON THE PLAN OR NOT AND NO ADDITIONAL COMPENSATION IS ALLOWED.

TREE PROTECTION

- ALL TREES AND SHRUBS WITHIN THE CITY EASEMENTS, RIGHT-OF-WAY AND ON PRIVATE PROPERTY ADJACENT TO THE PROJECT WORK MUST BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR MUST DEVELOP METHODS TO WORK AROUND ALL TREES.
- NOT ALL TREES AND SHRUBS ARE SHOWN ON THE PLANS.
- CONTACT CITY ENGINEER, INSPECTOR, AND CITY ARBORIST TO IDENTIFY TREES TO BE PRUNED IN CITY RIGHT-OF-WAY OR EASEMENTS AS REQUIRED FOR ACCESS TO PROJECT AREA. CONTACT CITY ARBORIST AT (650)558-7330.
- THE CITY ARBORIST MUST BE PRESENT DURING EXCAVATION AND/OR DEMOLITION WORK BELOW DRIP LINES OF EXISTING TREES. TRENCHING AND EXCAVATION WITHIN 10' OF TREE TRUNKS REQUIRES CITY'S WRITTEN AUTHORIZATION IF AT ANYTIME THERE IS A TREE THAT IS JEOPARDIZED BY EXCAVATION OR TRENCHING. THE CITY ARBORIST MUST BE CONTACTED BY THE CONTRACTOR. HAND DIGGING IS REQUIRED WHEN INSTALLING UNDER OR IN THE VICINITY OF THE TREE ROOTS. ROOTS OF 2" IN DIAMETER AND LARGER MUST REMAIN TO BRIDGE THE TRENCH, EXCEPT AS APPROVED BY THE ARBORIST.

PIPE MATERIAL NOTES

- ALL MATERIALS MUST COMPLY WITH THE CITY OF BURLINGAME STANDARD DETAILS, DRAWINGS AND SPECIAL PROVISIONS FOR THIS PROJECT.
- ALL WATER MAINS AND FITTINGS MUST BE CLASS 305 C900 PVC AND DUCTILE-IRON AS NOTED ON THESE PLANS, AND MUST CONFORM TO THE CITY OF BURLINGAME STANDARD DETAILS AND SPECIFICATIONS.

REMOVALS AND DISPOSALS

- DISPOSE OF THE EXISTING WATER MAIN REMOVED FOR CONSTRUCTION. WATER MAINS THAT ARE NOT REMOVED AS PART OF THE INSTALLATION OF NEW PIPE MUST BE ABANDONED IN PLACE. ALL EXCAVATED MATERIALS AND PIPE REMOVED MUST BE IMMEDIATELY DISPOSED OF AT AN APPROVED LOCATION. DO NOT DUMP SURPLUS MATERIAL ON PUBLIC OR PRIVATE PROPERTY. BACKFILL THE NEW TRENCH IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- PAVEMENT GRINDINGS MAY CONTAIN FABRIC, ENGINEERED PAVING MAT, OR OTHER CONTAMINATED MATERIALS. IT IS YOUR RESPONSIBILITY TO REMOVE AND DISPOSE OF THESE MATERIALS ALONG WITH THE GRINDING SPOILS. THERE WILL BE NO ADDITIONAL COMPENSATION ALLOWED.

UTILITY NOTES

- EXISTING UTILITIES ARE SHOWN BASED UPON AVAILABLE INFORMATION. THERE MAY BE ADDITIONAL EXISTING FACILITIES NOT SHOWN ON THESE PLANS. LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES SHOWN ARE APPROXIMATE ONLY. IT IS YOUR RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. CONTACT THE UTILITY NOTIFICATION CENTER OF CALIFORNIA AT 811 AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION.
- PERFORM PHYSICAL VERIFICATION OF UTILITY LOCATIONS BY POTHOLING OR HAND DIGGING AND CAREFUL SUBSURFACE PROBING IN CONFORMANCE WITH ALL CAL/OSHA CONSTRUCTION SAFETY ORDERS. ANY DEVIATIONS FROM LOCATIONS SHOWN ON PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE STARTING CONSTRUCTION.
- YOU MUST BE CAREFUL TO AVOID ANY DAMAGE TO ALL UTILITY SERVICES.
- ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION MUST BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER AND THE UTILITY OWNER AT YOUR SOLE EXPENSE.
- RELOCATE WATER MAINS, SANITARY SEWER MAINS, STORM DRAINS AND THEIR SERVICES REQUIRING TEMPORARY OR PERMANENT RELOCATION FOR CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- ALL PIPING LENGTH MEASUREMENTS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- IT IS YOUR RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES AND TO OBTAIN ANY PERMITS REQUIRED BY THE CITY OF BURLINGAME AND ALL OTHER AGENCIES NECESSARY IN ORDER TO DO THE WORK SHOWN ON THESE PLANS.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES AND TOPOGRAPHIC FEATURES ARE APPROXIMATELY SHOWN AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. YOU MUST DETERMINE THE TRUE LOCATION OF ALL EXISTING UTILITIES RELATIVE TO THE PROPOSED IMPROVEMENTS BEFORE COMMENCING WORK. YOU ARE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH RESULT FROM YOUR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, BUILDINGS AND WALLS. NOTIFY THE UTILITY COMPANIES THAT WILL BE AFFECTED BY THE WORK TO OBTAIN ASSISTANCE IN LOCATING EXISTING MAINS AND SERVICE CONNECTIONS. MAJOR UTILITY COMPANIES WITH KNOWN EXISTING UNDERGROUND UTILITIES IN THE AREA ARE:
- YOU MUST COORDINATE THE CONSTRUCTION OPERATIONS WITH ALL UTILITIES COMPANIES WHICH ARE TO RELOCATE OR INSTALL THEIR UTILITIES TO ACHIEVE AN EFFICIENT SCHEDULE OF OPERATIONS THAT DOES NOT DELAY CONSTRUCTION.
- AS PART OF THE PRE-BID INSPECTION, BIDDERS MUST VISIT THE SITE AND NOTE THE TYPE AND LOCATION OF OVERHEAD UTILITIES IN THE PROPOSED WORK AREA. BIDDERS PRICE MUST INCLUDE PROVISIONS FOR WORKING IN AREAS WHERE OVERHEAD UTILITIES EXIST AT THE TIME OF BIDDING, WHETHER SHOWN ON THE PLAN OR NOT AND NO ADDITIONAL COMPENSATION IS ALLOWED.

PG&E NOTES

- STANDBY INSPECTION: A PG&E GAS TRANSMISSION STANDBY INSPECTOR MUST BE PRESENT DURING ANY DEMOLITION OR CONSTRUCTION ACTIVITY WITHIN 10 FEET OF GAS PIPELINE(S). THIS INCLUDES ALL GRADING, TRENCHING, GAS LINE DEPTH VERIFICATIONS (POTHOLES), ASPHALT OR CONCRETE DEMOLITION/REMOVAL, REMOVAL OF TREES, SIGNS, LIGHT POLES, ETC. THIS INSPECTION CAN BE COORDINATED THROUGH THE UNDERGROUND SERVICE ALERT (USA) SERVICE AT 811 OR 1-800-227-2600. A MINIMUM NOTICE OF 48 HOURS IS REQUIRED.
- GRADING/EXCAVATION: PG&E REQUIRES A MINIMUM OF EXISTING GRADE OR 36 INCHES OF COVER OVER GAS LINES (WHICHEVER IS LESS), AND A MAXIMUM OF 7 FEET COVER. ANY EXCAVATIONS, INCLUDING GRADING WORK, ABOVE OR AROUND THE GAS TRANSMISSION FACILITIES MUST BE PERFORMED WHILE A PG&E INSPECTOR IS PRESENT. THIS INCLUDES ALL LATERALS, SUBGRADES, GAS LINE DEPTH VERIFICATIONS (POTHOLES), ETC. ANY PLANS TO EXPOSE AND SUPPORT A PG&E GAS TRANSMISSION PIPELINE ACROSS AN OPEN EXCAVATION NEED TO BE APPROVED BY PG&E PIPELINE ENGINEERING IN WRITING PRIOR TO PERFORMING THE WORK. ANY DIGGING WITHIN 2 FEET OF A GAS PIPELINE MUST BE DUG BY HAND. WATER JETTING TO ASSIST VACUUM EXCAVATING MUST BE LIMITED TO 1000 PSIG AND DIRECTED AT A 40° ANGLE TO THE PIPE.
- PIPELINE MARKERS: PG&E REQUIRES PIPELINE MARKERS BE PLACED ALONG THE PIPELINE ROUTE IN ORDER TO ENSURE PUBLIC AWARENESS OF THE PRESENCE OF THE PIPELINE. ANY EXISTING MARKERS CAN BE TEMPORARILY RELOCATED TO ACCOMMODATE CONSTRUCTION WORK (WITH WRITTEN PG&E APPROVAL), HOWEVER MARKERS MUST BE REINSTALLED ONCE CONSTRUCTION IS COMPLETE.
- BORING/TRENCHLESS INSTALLATIONS: PG&E MUST REVIEW AND APPROVE OF 3RD PARTY PLANS TO BORE ACROSS OR PARALLEL TO (WITHIN 10 FEET) A GAS TRANSMISSION PIPELINE. THERE ARE STRINGENT CRITERIA TO POTHOLE THE GAS TRANSMISSION FACILITY AT REGULAR INTERVALS FOR ALL PARALLEL BORE INSTALLATIONS.
- LANDSCAPING: TREES OR DEEP ROOTED SHRUBS SHALL NOT BE LOCATED WITHIN 10 FEET OF EDGE OF PIPE (PIPE ZONE). TREES LESS THAN 12 INCHES IN DIAMETER WITH NON-INTRUSIVE ROOT STRUCTURES CAN BE PLACED OUTSIDE OF THE 10 FOOT PIPE ZONE. REMOVAL OF TREES IS ACCEPTABLE, GIVEN THE STUMPS ARE NOT REMOVED. IF STUMPS/ROOTS ARE BEING REMOVED, FURTHER EVALUATION WILL BE REQUIRED TO ENSURE THAT REMOVAL WILL NOT INTERFERE WITH THE PIPELINES.
- FENCING: CARE MUST BE TAKEN TO ENSURE THE SAFETY AND ACCESSIBILITY OF THE PIPELINES. NO PARALLEL FENCING WILL BE ALLOWED WITHIN 10 FT. OF THE PIPELINE, AND ANY PERPENDICULAR FENCING WILL REQUIRE 14 FOOT WIDE ACCESS GATES TO BE SECURED WITH PG&E CORPORATION LOCKS.
- STRUCTURES: PERMANENT STRUCTURES MUST BE LOCATED A MINIMUM DISTANCE OF 10 FT. FROM EDGE OF PIPE. ADDITIONALLY, FOR PIPELINE MAINTENANCE, FUTURE CONSTRUCTION, EMERGENCY RESPONSE PROVISIONS, ETC., WE NEED A TOTAL WIDTH OF 45 FT. TO ACCESS THE LOCATION, DO NOT STOCKPILE OR STORE DEMOLITION/CONSTRUCTION MATERIAL OR EQUIPMENT WITHIN THIS DISTANCE. PG&E CANNOT COMPROMISE ON THE ABILITY TO SAFELY ACCESS, OPERATE AND MAINTAIN THEIR FACILITIES, ESPECIALLY WHEN CONSIDERING EMERGENCY SITUATIONS.
- SUBSTRUCTURES: ALL UTILITY CROSSINGS MUST BE AS CLOSE TO PERPENDICULAR AS FEASIBLE (90° +/- 15°) TO THE GAS LINES AND MUST BE SEPARATED BY A MINIMUM OF 12 INCHES FROM THE GAS PIPELINE. THIS INCLUDES BUT IS NOT LIMITED TO ELECTRICAL CONDUIT, IRRIGATION LINES, WATER LINES, SEWER LINES, ETC.
- CATHODIC PROTECTION: THE GAS TRANSMISSION PIPELINES IN THE PROJECT AREA ARE PROTECTED FROM CORROSION WITH AN "IMPRESSED CURRENT" CATHODIC PROTECTION ANY PROPOSED SUBSTRUCTURES/FACILITIES, SUCH AS METAL CONDUIT, PIPES, SERVICE LINES, GROUND RODS, ANODES, WIRES, ETC. THAT MAY AFFECT THE PIPELINE CATHODIC PROTECTION SYSTEM WILL REQUIRE REVIEW AND APPROVAL BY PG&E CORROSION ENGINEERING.
- CONSTRUCTION LOADING: TO PREVENT DAMAGE TO THE BURIED GAS PIPELINE(S), THERE ARE WEIGHT LIMITS THAT MUST BE ENFORCED WHENEVER ANY EQUIPMENT GETS WITHIN 10 FEET OF TRAVERSING A PIPELINE. DUE TO THE WEIGHT VARIABILITY OF TRACKED EQUIPMENT, CRANES, VIBRATORY COMPACTORS, ETC., DO NOT ALLOW ANY CONSTRUCTION EQUIPMENT WITHIN 10 FEET OF THE GAS PIPELINE(S) WITHOUT APPROVAL FROM THE PG&E GAS TRANSMISSION PIPELINE ENGINEER. WHEEL LOADING CALCULATIONS WILL NEED TO BE DETERMINED, AND THE PIPELINE MAY NEED TO BE POTHOLED BY HAND IN A FEW AREAS TO CONFIRM THE DEPTH OF THE EXISTING COVER. THESE WEIGHT LIMITS ALSO DEPEND ON THE SUPPORT PROVIDED BY THE PIPELINE'S INTERNAL GAS PRESSURE. IF PG&E'S OPERATING CONDITIONS REQUIRE THE PIPELINE TO BE DEPRESSURIZED, MAXIMUM WHEEL LOADS OVER THE PIPELINE WILL NEED TO BE FURTHER LIMITED. FOR COMPACTION, PLEASE USE WALK-BEHIND COMPACTION EQUIPMENT IF WITHIN 2 FEET OF THE PIPELINE. CRANE AND BACKHOE OUTRIGGERS MUST BE SET AT LEAST 10 FEET FROM THE CENTERLINE OF THE GAS PIPELINE.

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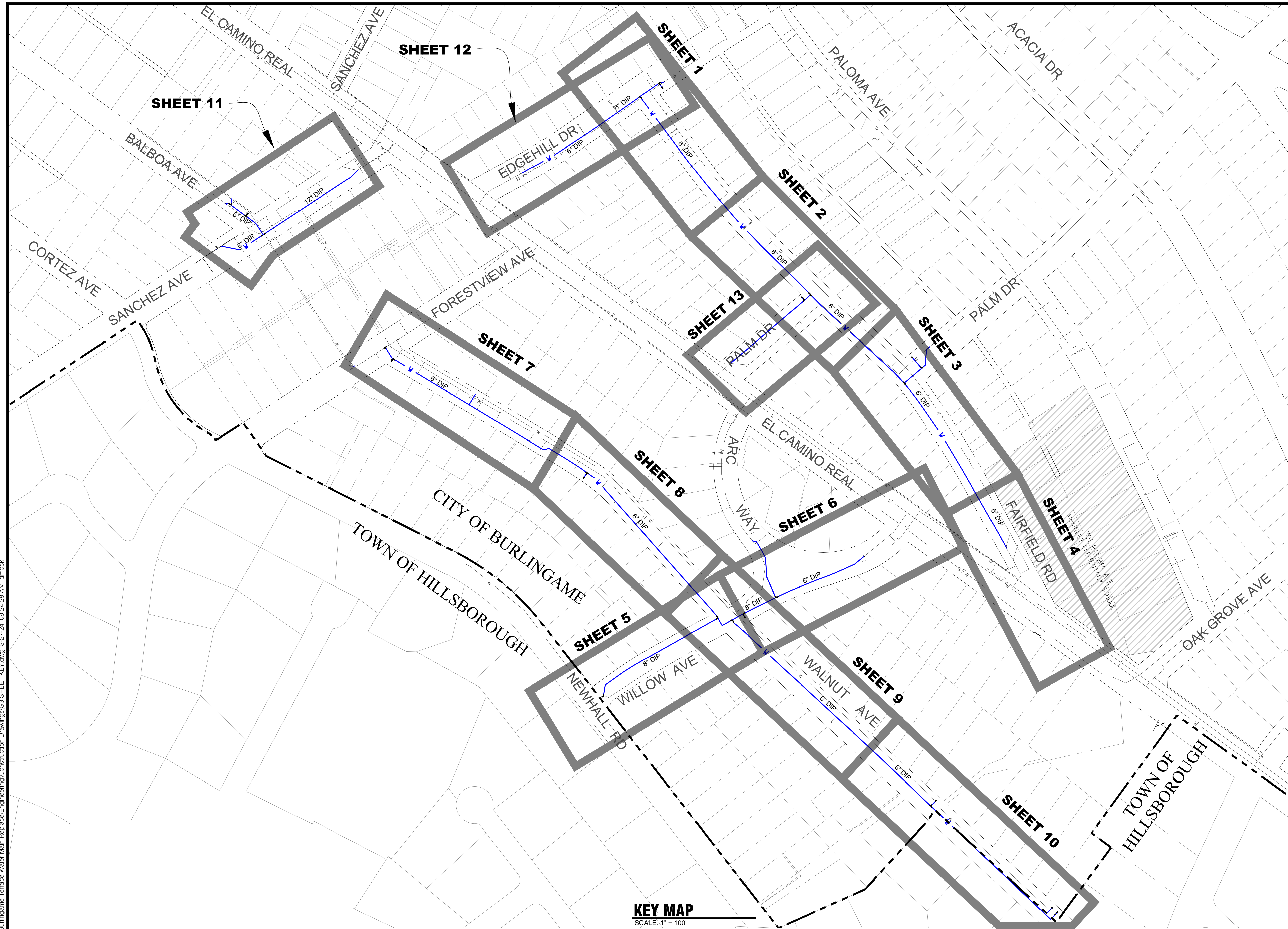
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WEST BURLINGAME TERRACE		WATER MAIN REPLACEMENT		GENERAL NOTES	
WH PROJ. NO. 140-115		CP #84893			

APPROVAL/RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24	
BRANDON S. DAVIS WILSEY HAM R.C.E. NO. 61024	DATE 3/28/24 EXPIRES 12/31/24
REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.	
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DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24	
BRANDON S. DAVIS WILSEY HAM R.C.E. NO. 61024	DATE 3/28/24 EXPIRES 12/31/24
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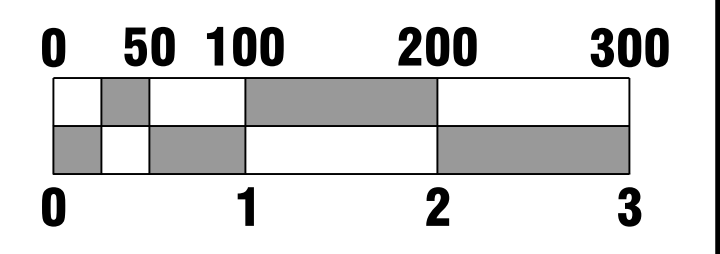
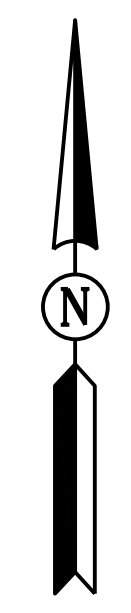
REGISTERED PROFESSIONAL ENGINEER BRANDON S. DAVIS C61024 CIVIL STATE OF CALIFORNIA
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SHEET	G2	OF	22	SHEETS
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KEY MAP
SCALE: 1" = 100'



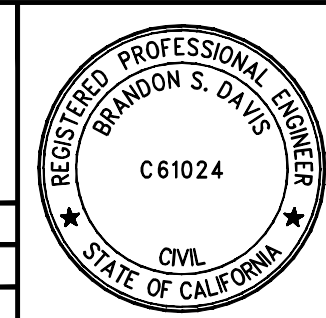
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CITY OF BURLINGAME SAN MATEO COUNTY CALIFORNIA WEST BURLINGAME TERRACE WATER MAIN REPLACEMENT SHEET KEY	SHEET G3 OF 22 SHEETS

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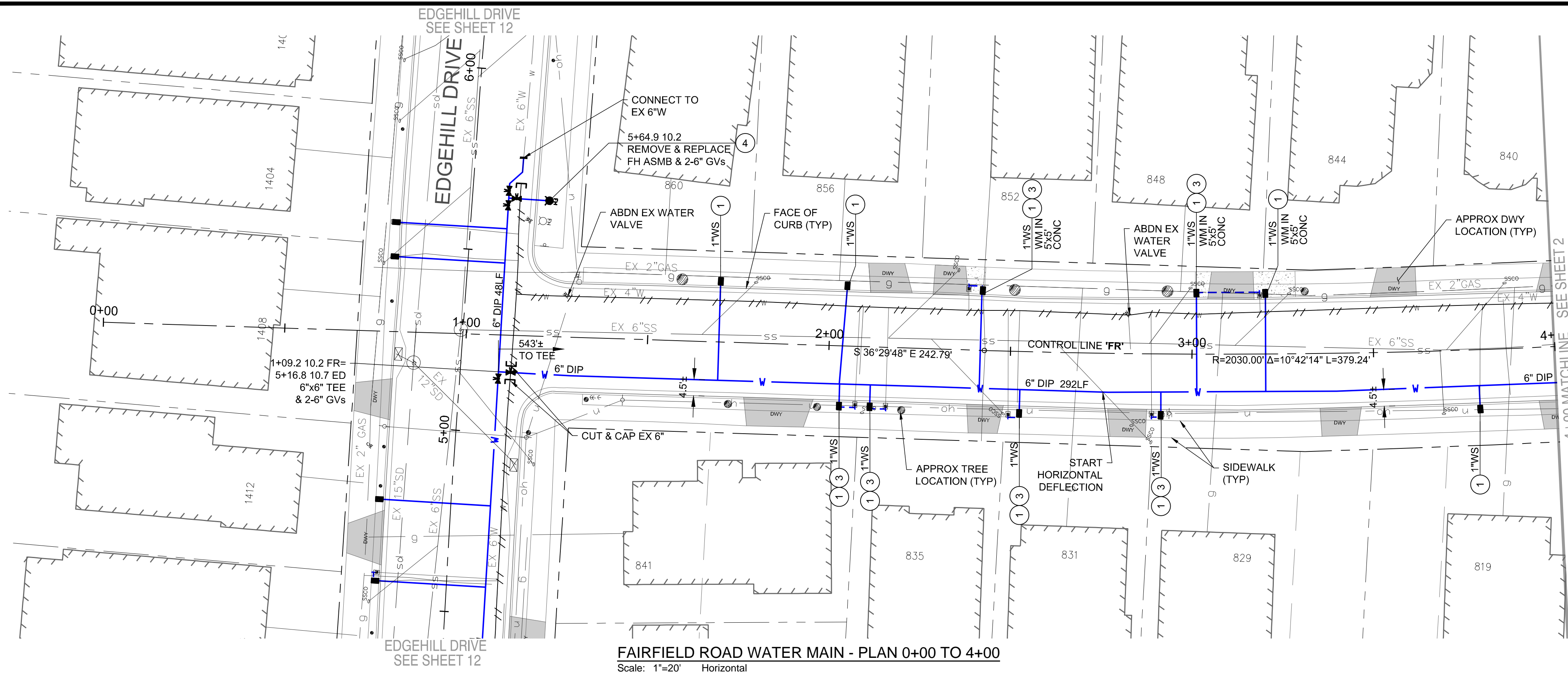
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CITY OF BURLINGAME
 SAN MATEO COUNTY CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
SHEET KEY

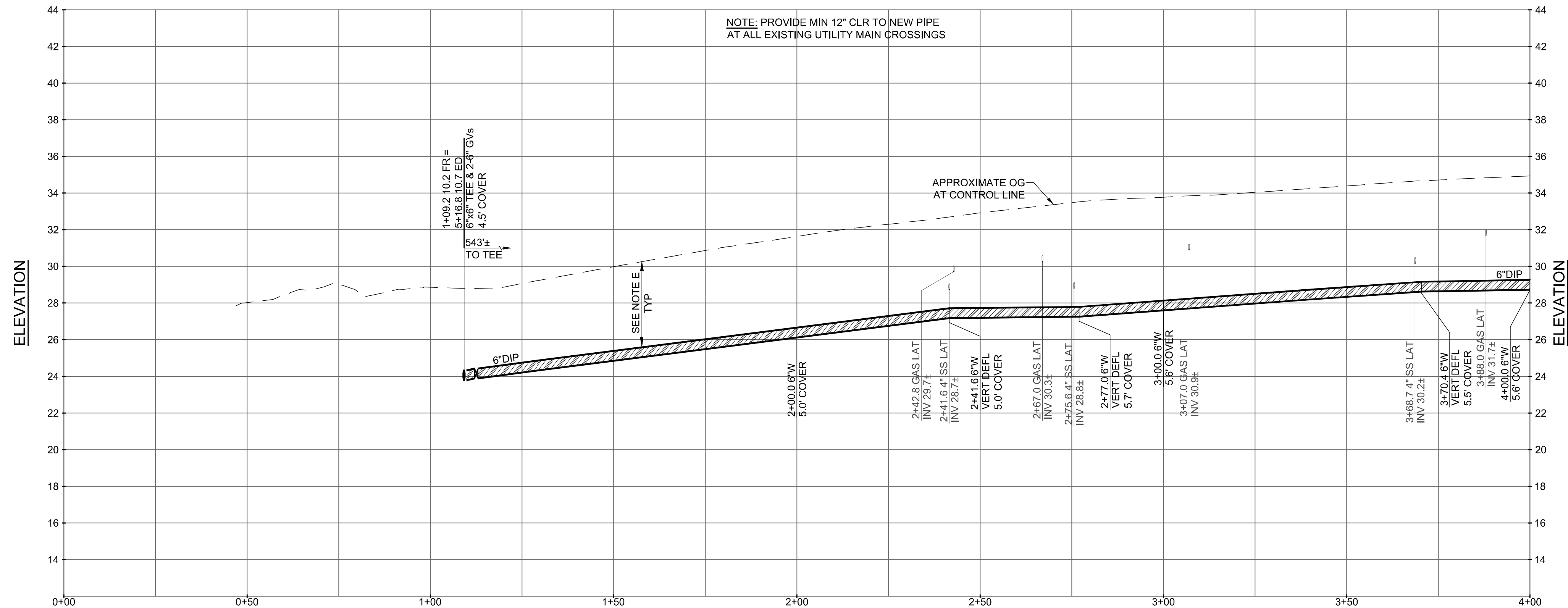
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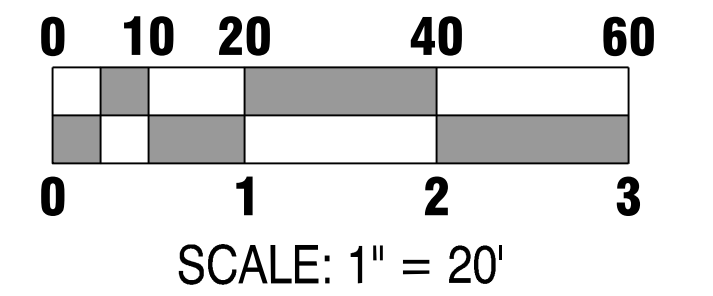
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FAIRFIELD ROAD WATER MAIN - PLAN 0+00 TO 4+00
Scale: 1"=20' Horizontal



FAIRFIELD ROAD WATER MAIN - PROFILE 0+00 TO 4+00
Scale: 1"=20' Horizontal, 1"=4' Vertical



KEY NOTES:

- 1 INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
- 2 INSTALL NEW 2" WATER SERVICE PER DETAIL 5 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS.
- 3 RELOCATE WATER METER AND SERVICE. CONNECT NEW WATER METER TO EXISTING CUSTOMER-SIDE WATER SERVICE. INSTALL NEW LENGTH OF CUSTOMER-SIDE WATER SERVICE AS NEEDED. MATCH EXISTING CUSTOMER-SIDE WATER SERVICE DIAMETER.
- 4 FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
- 5 SS CROSSING, SEE DETAIL 9 ON SHEET D2.
- 6 INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
- 7 WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
- 8 MATCH EX FIRE SERVICE OR AS NOTED. FIRE SERVICE PER DETAIL 18 ON SHEET D4.
- 9 PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
- 10 INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

NOTES:

- A. CAUTION: PROTECT EXISTING GAS AND HIGH VOLTAGE ELECTRIC LINES.
- B. STATION AND OFFSET CALLOUTS ARE TO CONNECTION POINT AT THE CENTERLINE OF THE MAIN. OFFSETS ARE IN FEET AND POSITIVE IS TO THE RIGHT AND NEGATIVE IS TO THE LEFT.
- C. UNLESS OTHERWISE NOTED, INVERT ELEVATIONS SHOWN ARE INVERT OF THE MAIN LINE PROFILE.
- D. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS, TEES, REDUCERS, BLIND FLANGES, CAPS, AND PLUGS PER CITY STANDARDS. SEE DETAILS ON SHEET D1.
- E. A MINIMUM OF 36" COVER IS REQUIRED ABOVE ALL WATER MAIN IN BURLINGAME STREETS RIGHT OF WAY.
- F. REPLACE ALL TRAFFIC LOOPS IN LANE GROUP WHEN ANY 1 OR MORE MEMBERS OF A GROUP IS DAMAGED BY WORK.
- G. STRIPING RESTORATION REQUIREMENTS SHALL BE PER CALTRANS STANDARDS.
- H. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS FOR MAINS AND SERVICES TO CONFIRM ADEQUATE CLEARANCE.
- I. WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.

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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

APPROVAL RECOMMENDED BY:
BRANDON S. DAVIS 3/28/24
WILSEY HAM
R.C.E. NO. 61024
DATE: 03/28/24
EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

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DESIGNED UNDER THE DIRECTION OF: BRANDON S. DAVIS 3/28/24 WILSEY HAM R.C.E. NO. 61024 DATE: 03/28/24 EXPIRES 12/31/24		
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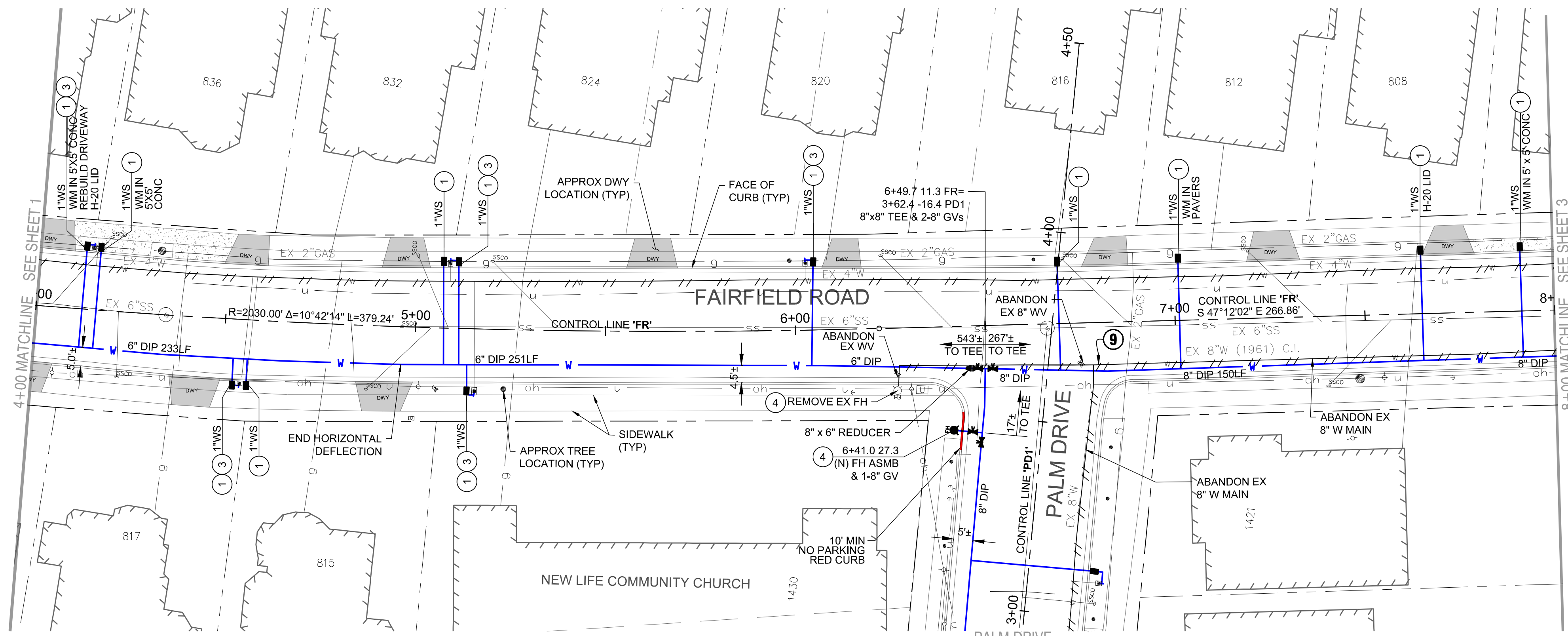
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SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
FAIRFIELD ROAD - PLAN & PROFILE - STA 0+00 TO 4+00
WH PROJ. NO. 140-115
CP #84893

REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

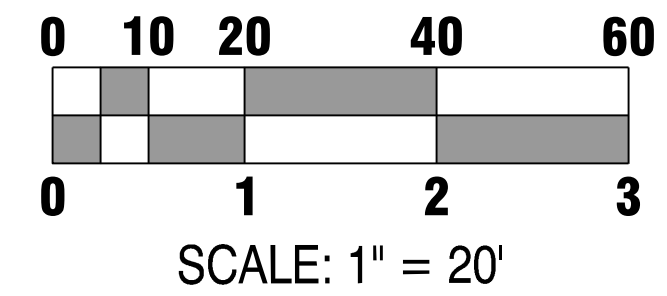
SHEET 1 OF 22 SHEETS

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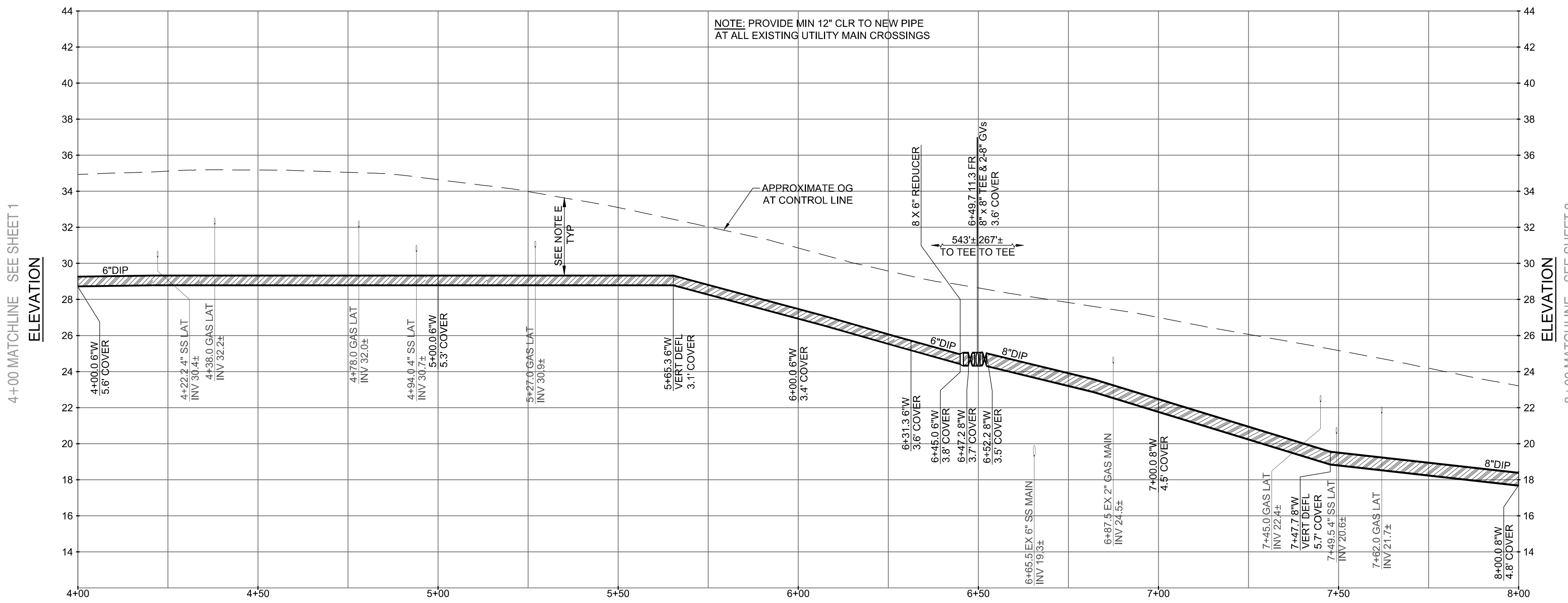
FAIRFIELD ROAD WATER MAIN - PLAN 4+00 TO 8+00

Scale: 1"=20' Horizontal



KEY NOTES:

- ① INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
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- ④ FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
- ⑤ SS CROSSING, SEE DETAIL 9 ON SHEET D2.
- ⑥ INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
- ⑦ WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
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- ⑩ INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.



FAIRFIELD ROAD WATER MAIN - PROFILE 4+00 TO 8+00

Scale: 1"=20' Horizontal
1"=4' Vertical

NOTES:

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BRANDON S. DAVIS 3/28/24
WILSEY HAM
R.C.E. NO. 61024
DATE
EXPIRES 12/31/24

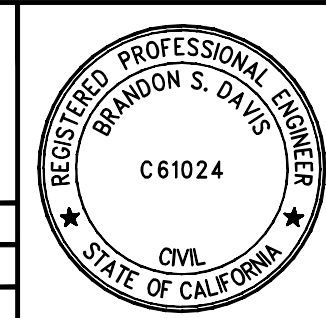
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DESIGNED UNDER THE DIRECTION OF: Brandon S. Davis 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24		
DESIGN: CTL	DATE: 03/28/24	
DRAWN: DMM/PJB	DATE: 03/28/24	
CHECKED: BSD	DATE: 03/28/24	

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Project Eng.:	CTL	03/28/24		
Designer:	DMM	03/28/24		
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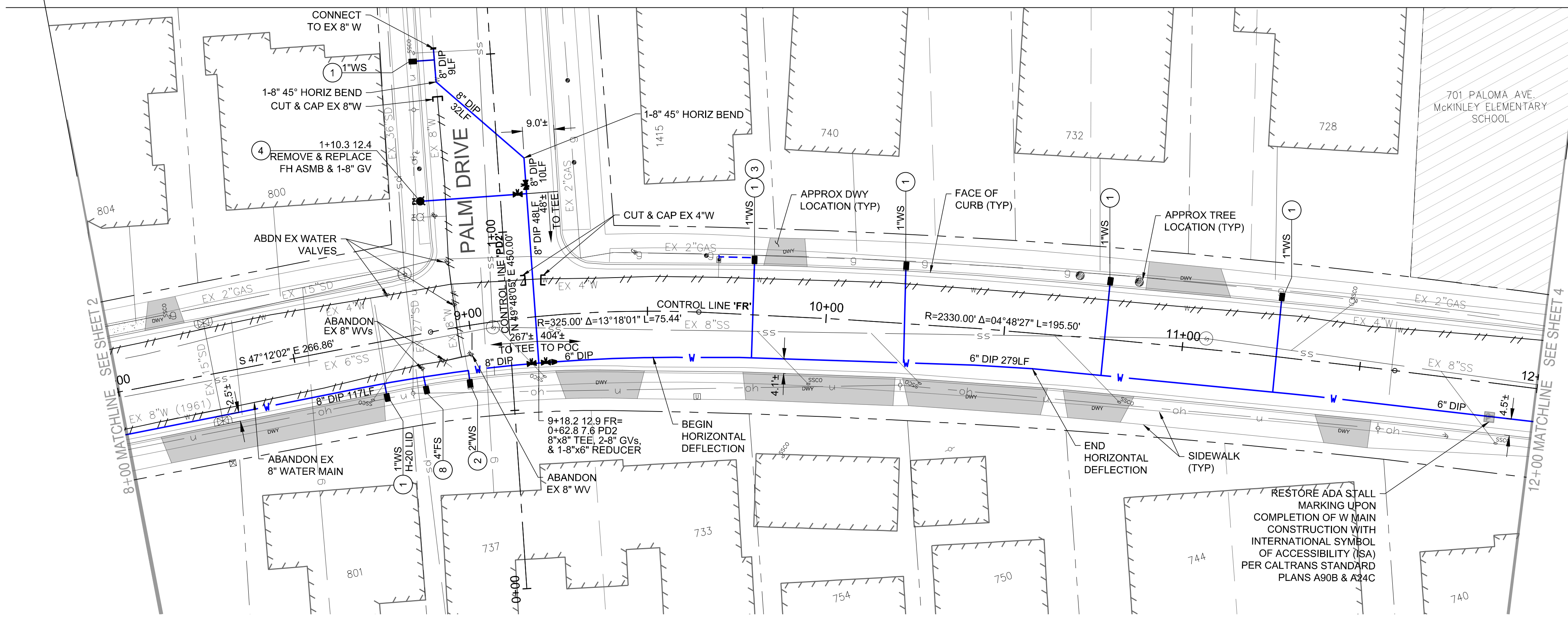
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CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
FAIRFIELD ROAD - PLAN & PROFILE - STA 4+00 TO 8+00
WH PROJ. NO. 140-115
CP #848993

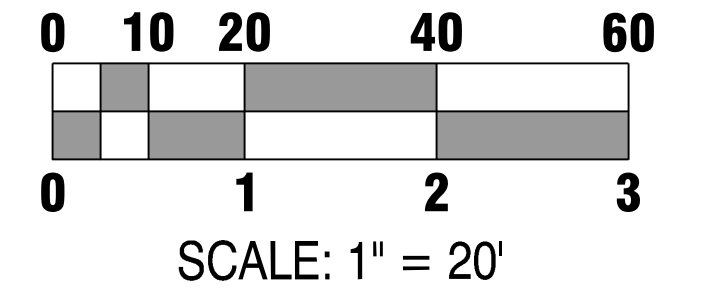


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22
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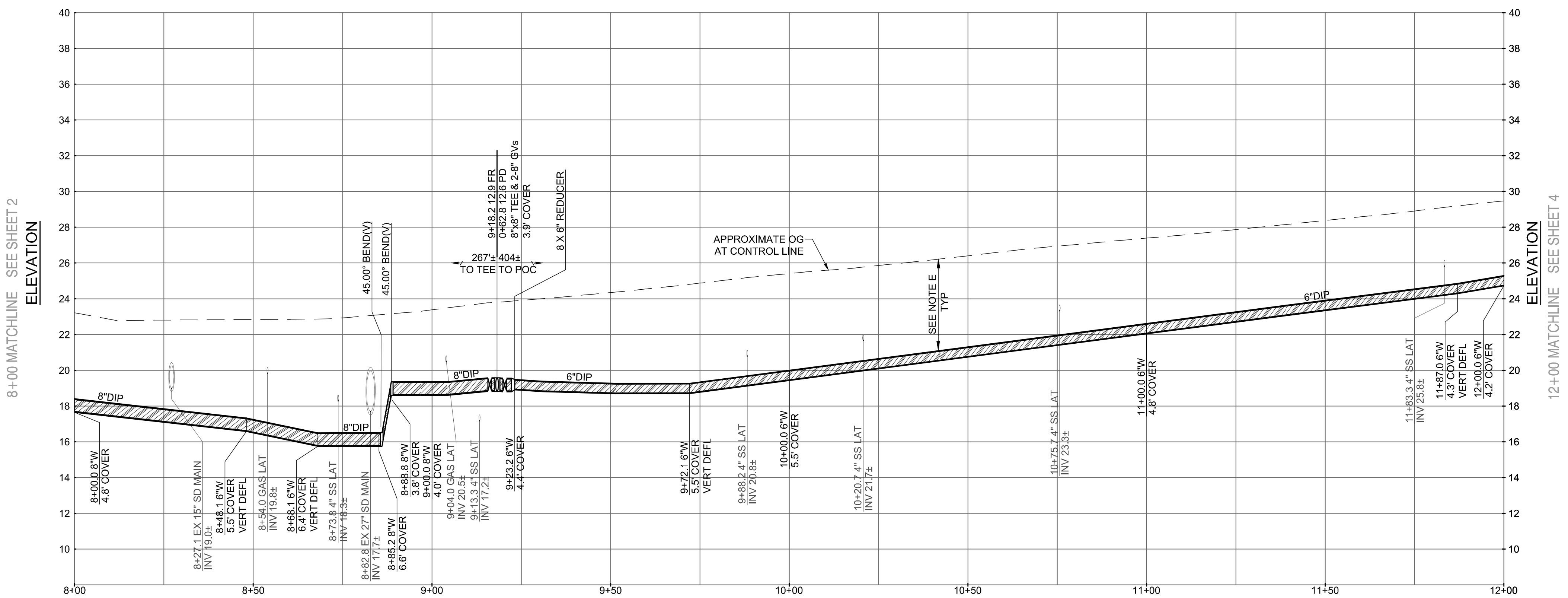
FAIRFIELD ROAD WATER MAIN - PLAN 8+00 TO 12+00
Scale: 1"=20' Horizontal



- KEY NOTES:**
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 - SS CROSSING, SEE DETAIL 9 ON SHEET D2.
 - INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
 - WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
 - MATCH EX FIRE SERVICE OR AS NOTED. FIRE SERVICE PER DETAIL 18 ON SHEET D4.
 - PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
 - INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

- NOTES:**
- CAUTION: PROTECT EXISTING GAS AND HIGH VOLTAGE ELECTRIC LINES.
 - STATION AND OFFSET CALLOUTS ARE TO CONNECTION POINT AT THE CENTERLINE OF THE MAIN. OFFSETS ARE IN FEET AND POSITIVE IS TO THE RIGHT AND NEGATIVE IS TO THE LEFT.
 - UNLESS OTHERWISE NOTED, INVERT ELEVATIONS SHOWN ARE INVERT OF THE MAIN LINE PROFILE.
 - THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS, TEES, REDUCERS, BLIND FLANGES, CAPS, AND PLUGS PER CITY STANDARDS. SEE DETAILS ON SHEET D1.
 - A MINIMUM OF 36" COVER IS REQUIRED ABOVE ALL WATER MAIN IN BURLINGAME STREETS RIGHT OF WAY.
 - REPLACE ALL TRAFFIC LOOPS IN LANE GROUP WHEN ANY 1 OR MORE MEMBERS OF A GROUP IS DAMAGED BY WORK.
 - STRIPING RESTORATION REQUIREMENTS SHALL BE PER CALTRANS STANDARDS.
 - CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS FOR MAINS AND SERVICES TO CONFIRM ADEQUATE CLEARANCE.
 - WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA
811
Know what's below.
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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



FAIRFIELD ROAD WATER MAIN - PROFILE 8+00 TO 12+00
Scale: 1"=20' Horizontal, 1"=4' Vertical

Project Mgr.:	BSD	03/28/24		
Project Eng.:	CTL	03/28/24		
Designer:	DMM	03/28/24		
Checked By:	BSD	03/28/24		
Drawn By:	DMM	03/28/24		
	PJB	03/28/24		
NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	DATE
	03/28/24	ISSUE FOR BID	BSD	

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Engineering, Surveying & Planning
3130 La Selva Street, Suite 100
San Mateo, CA 94403
650.349.2151
wilseyham.com

SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
FAIRFIELD ROAD - PLAN & PROFILE - STA 8+00 TO 12+00
WH PROJ. NO. 140-115
CP #848993

APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24
R.C.E. NO. 61024 EXPIRES 03/31/26

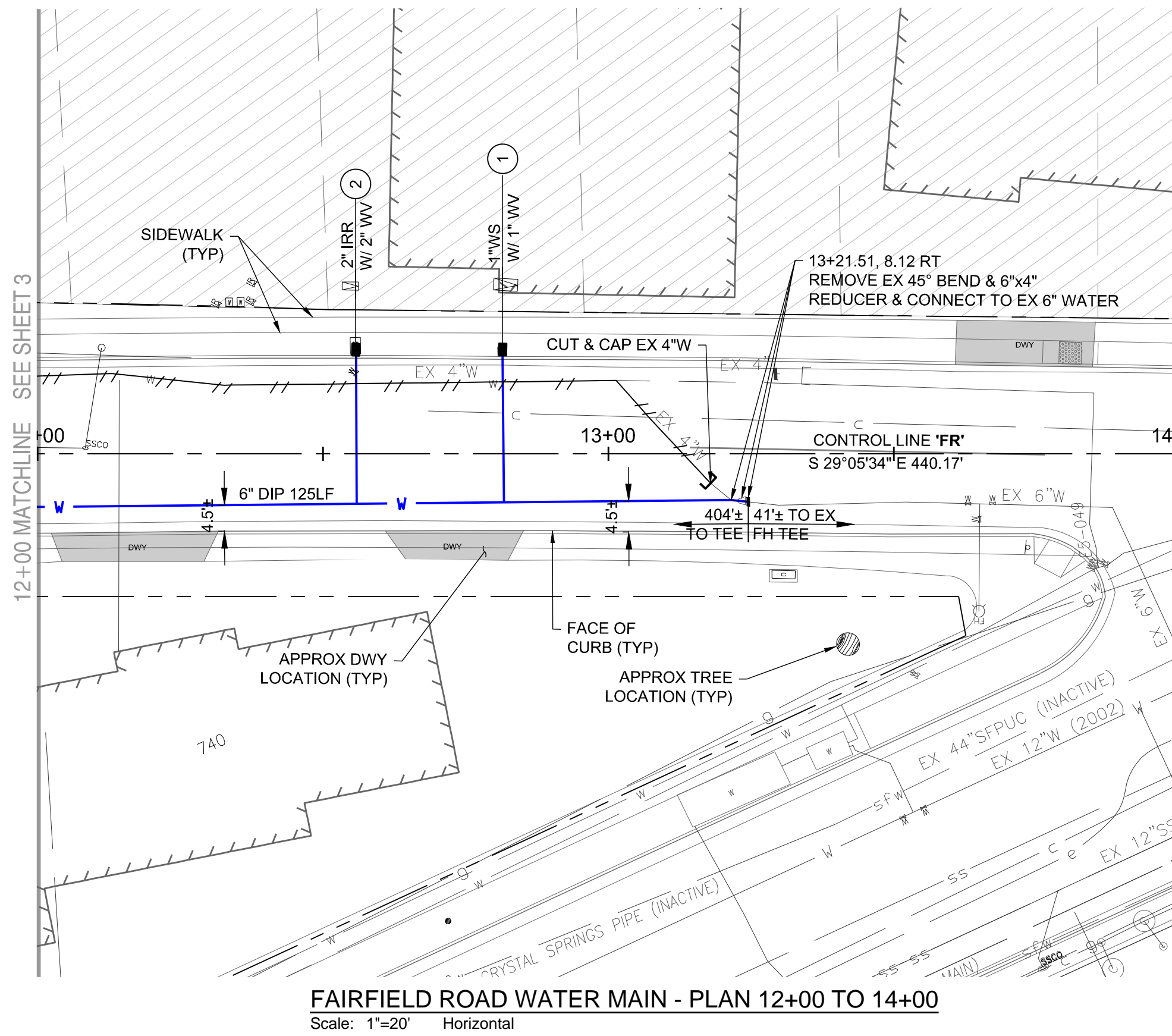
DESIGNED UNDER THE DIRECTION OF:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24
DESIGN: CTL DATE: 03/28/24
DRAWN: DMM/PJB DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

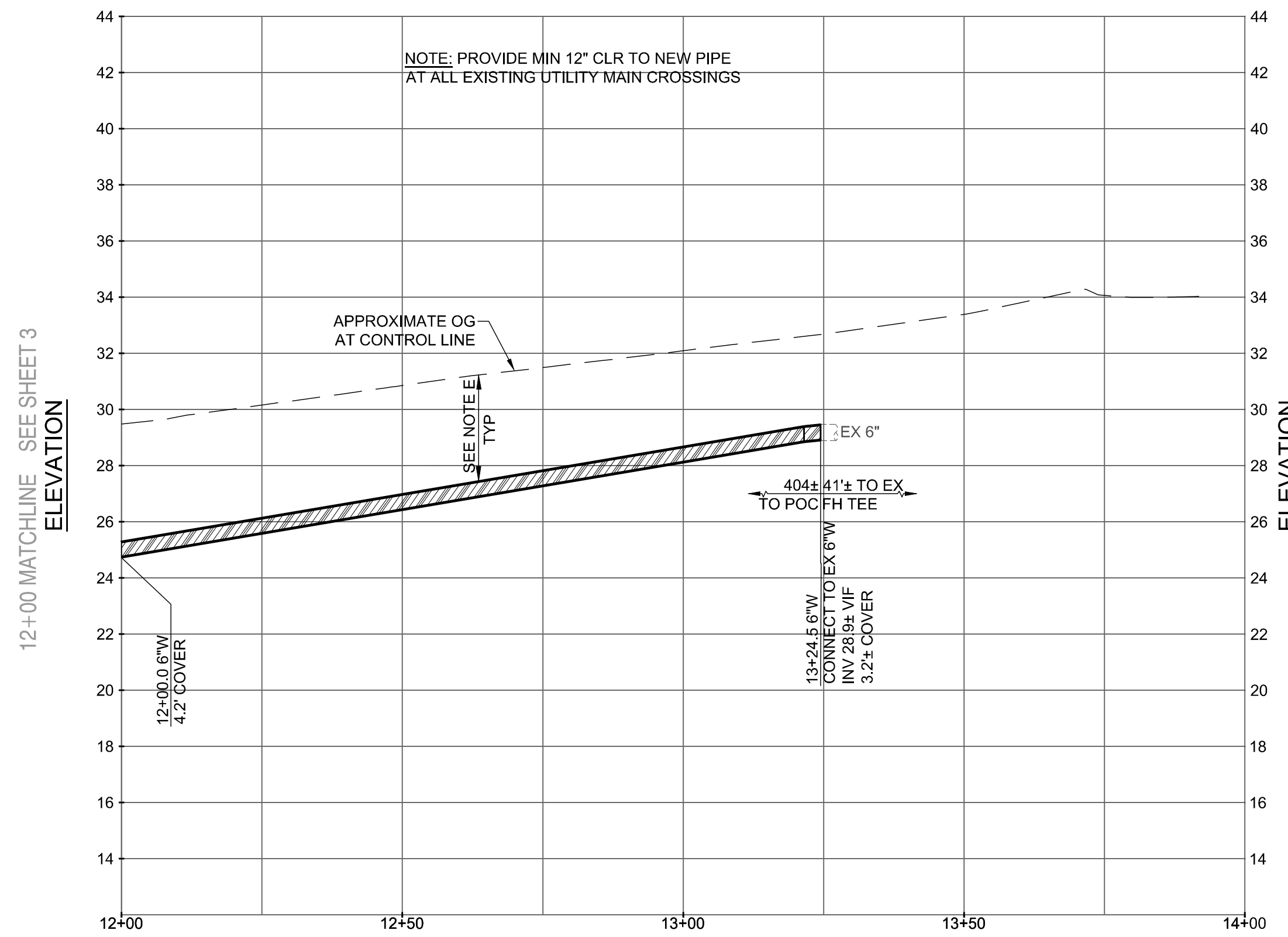
REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

SHEET 3 OF 22 SHEETS

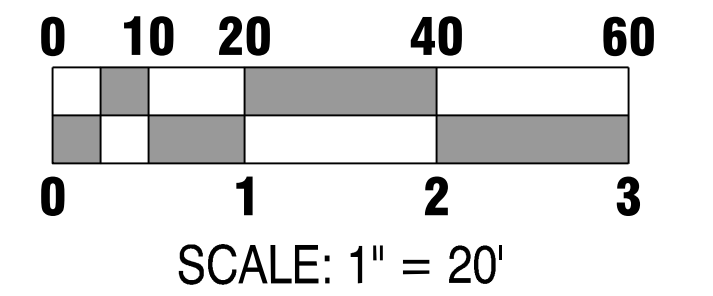
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FAIRFIELD ROAD WATER MAIN - PLAN 12+00 TO 14+00
Scale: 1"=20' Horizontal



FAIRFIELD ROAD WATER MAIN - PROFILE 12+00 TO 14+00
Scale: 1"=20' Horizontal, 1"=4' Vertical



KEY NOTES:

- ① INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES, REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
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- ③ RELOCATE WATER METER AND SERVICE. CONNECT NEW WATER METER TO EXISTING CUSTOMER-SIDE WATER SERVICE. INSTALL NEW LENGTH OF CUSTOMER-SIDE WATER SERVICE AS NEEDED. MATCH EXISTING CUSTOMER-SIDE WATER SERVICE DIAMETER.
- ④ FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
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- ⑦ WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
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NOTES:

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- D. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS, TEES, REDUCERS, BLIND FLANGES, CAPS, AND PLUGS PER CITY STANDARDS. SEE DETAILS ON SHEET D1.
- E. A MINIMUM OF 36" COVER IS REQUIRED ABOVE ALL WATER MAIN IN BURLINGAME STREETS RIGHT OF WAY.
- F. REPLACE ALL TRAFFIC LOOPS IN LANE GROUP WHEN ANY 1 OR MORE MEMBERS OF A GROUP IS DAMAGED BY WORK.
- G. STRIPING RESTORATION REQUIREMENTS SHALL BE PER CALTRANS STANDARDS.
- H. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS FOR MAINS AND SERVICES TO CONFIRM ADEQUATE CLEARANCE.
- I. WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA



Know what's below.
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APPROVAL RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.	
ART MORIMOTO R.C.E. NO. 42634	ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26
DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
DESIGN: CTL DATE: 03/28/24	DATE: 03/28/24
DRAWN: DMM/PJB DATE: 03/28/24	DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24	DATE: 03/28/24

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	BY	DATE
	03/28/24	ISSUE FOR BID	BSD		

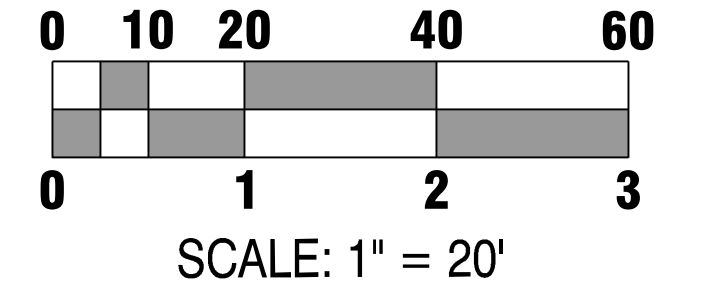
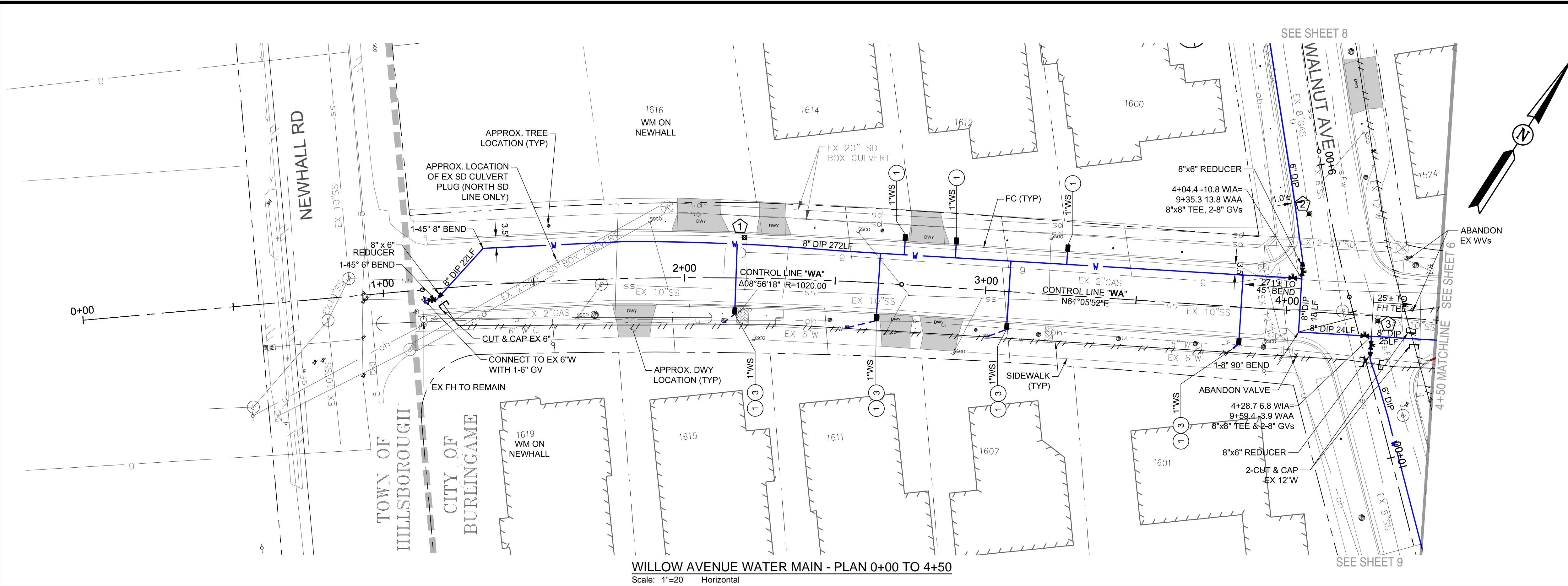
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San Mateo, CA 94403
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SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
FAIRFIELD ROAD - PLAN & PROFILE - STA 12+00 TO 14+00
WH PROJ. NO. 140-115 CP #84893

REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

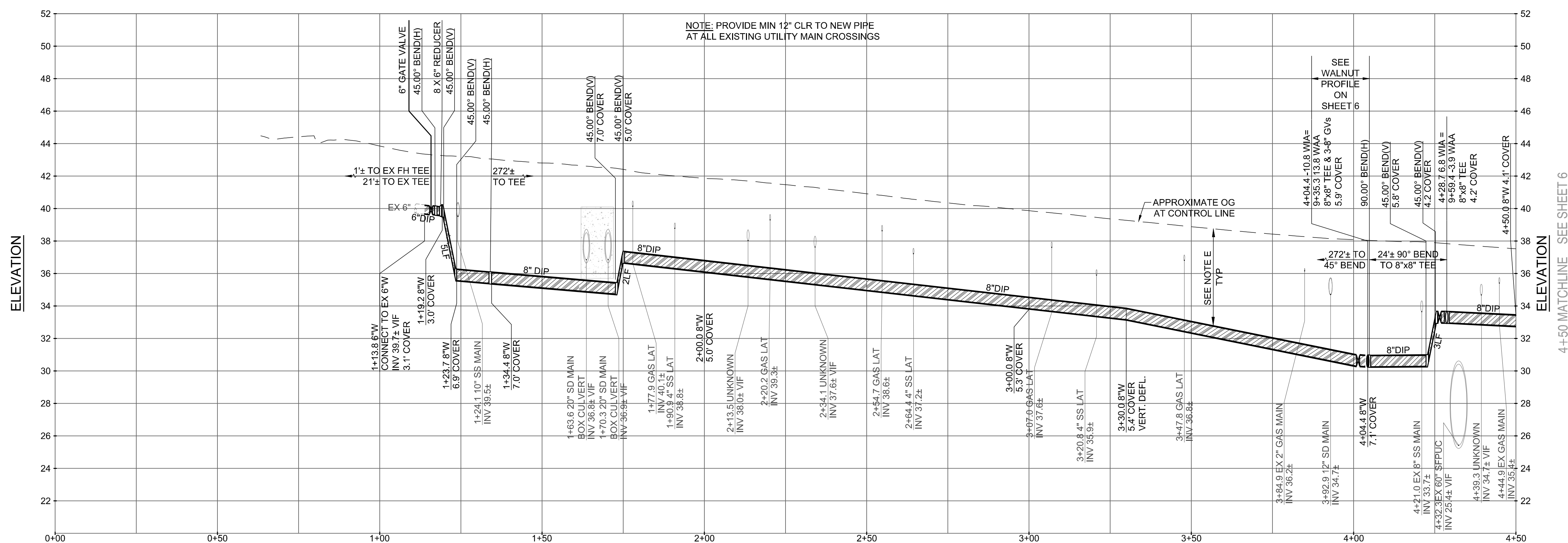
SHEET
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OF
22
SHEETS

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- KEY NOTES:**
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WILLOW AVENUE WATER MAIN - PLAN 0+00 TO 4+50
Scale: 1"=20' Horizontal



WILLOW AVENUE WATER MAIN - PROFILE 0+00 TO 4+50
Scale: 1"=20' Horizontal
1"=4' Vertical

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POTHOLE LEGEND (SEE PLAN FOR APPROX. LOCATION)

POTHOLE #	UTILITY	DEPTH TO TOP	EX PAVEMENT SECTION
PH1	2" GAS	22"	4" AC / 4" PCC
PH2	8" GAS	30"	4" AC / 6" PCC
PH3	60" WATER	86"	6" AC

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APPROVAL RECOMMENDED BY: *Brandon S. Davis* 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE R.C.E. NO. 42634 EXPIRES 03/31/26

DESIGNED UNDER THE DIRECTION OF: *Brandon S. Davis* 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

DESIGN: CTL DATE: 03/28/24
DRAWN: DMM/PJB DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24

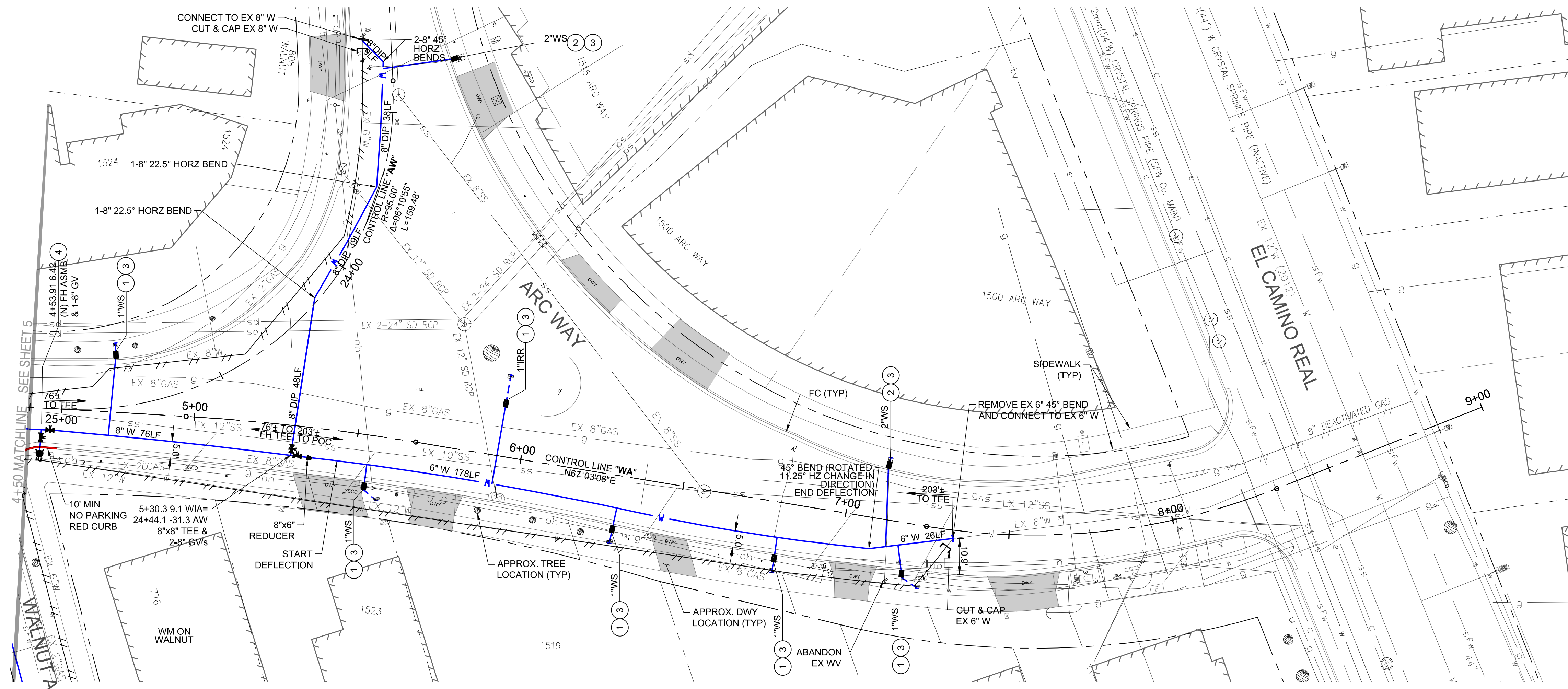
SHEET 5 OF 22 SHEETS

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	DATE
	03/28/24	ISSUE FOR BID	BSD	

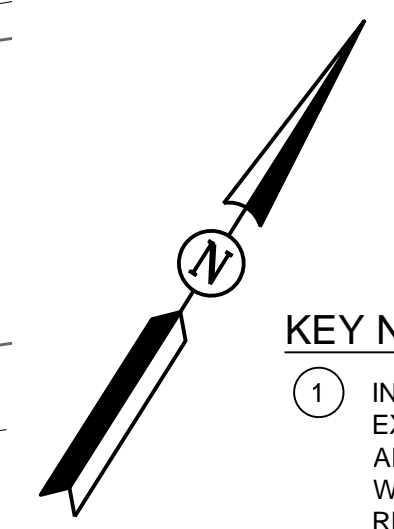
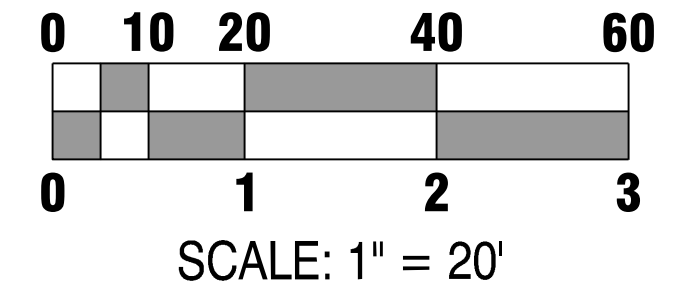
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3130 La Selva Street, Suite 100
San Mateo, CA 94403
650.349.2151
wilseyham.com

SAN MATEO COUNTY CITY OF BURLINGAME CALIFORNIA
WEST BURLINGAME TERRACE WATER MAIN REPLACEMENT
WILLOW AVENUE - PLAN & PROFILE - STA 0+00 TO 4+50
WH PROJ. NO. 140-115 CP #849893

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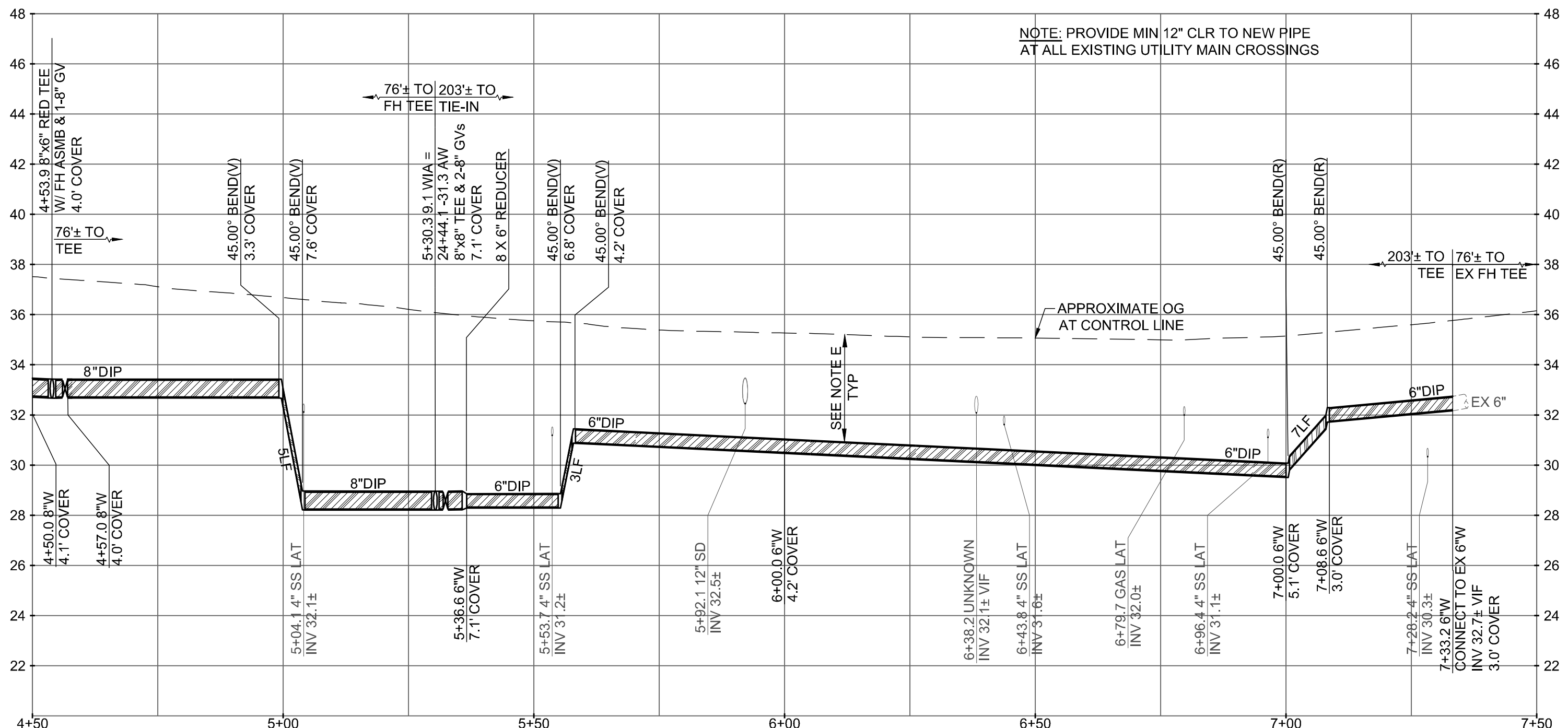


WILLOW AVENUE WATER MAIN - PLAN 4+50 TO 9+00
Scale: 1"=20' Horizontal

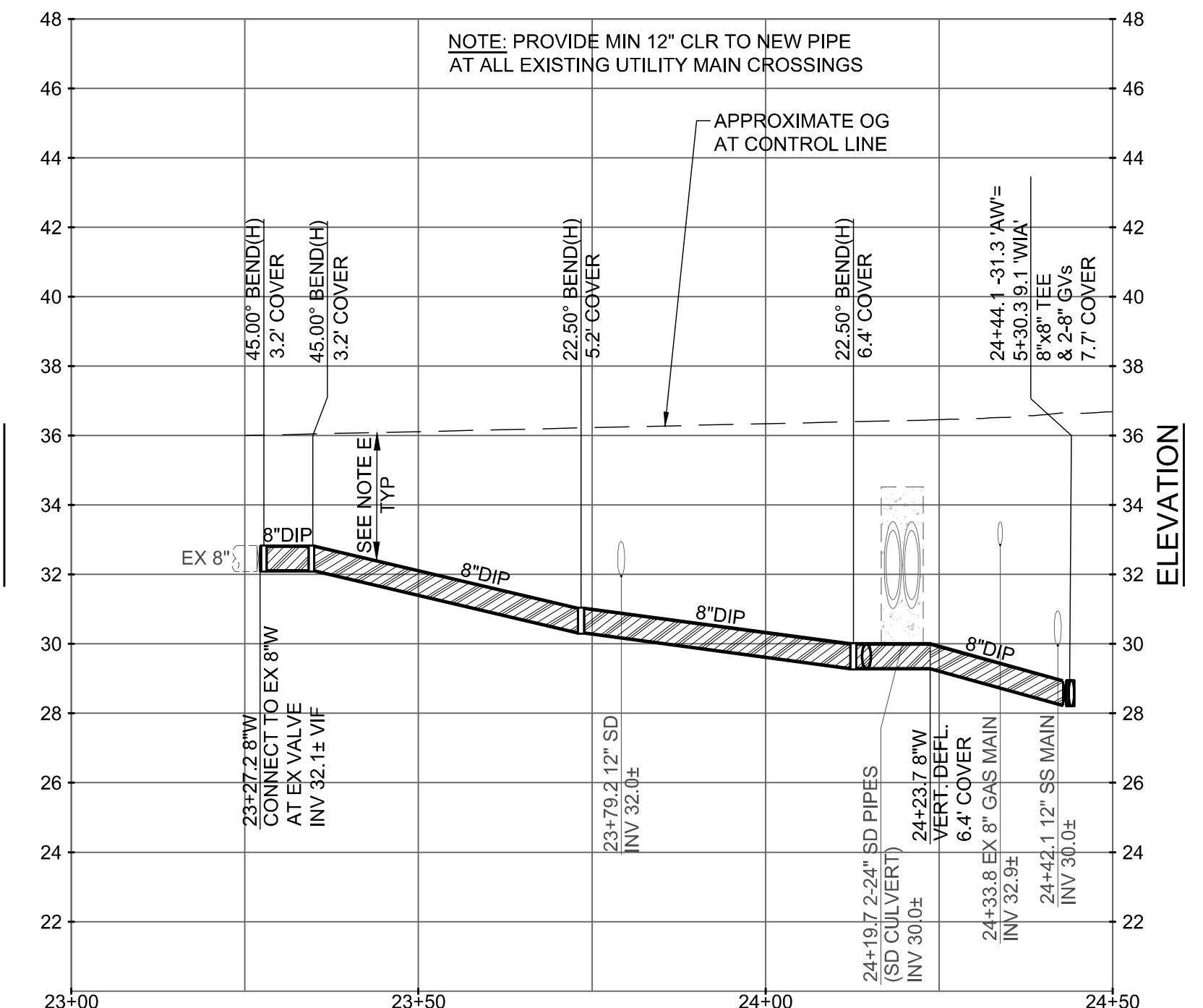


- KEY NOTES:**
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 - SS CROSSING, SEE DETAIL 9 ON SHEET D2.
 - INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
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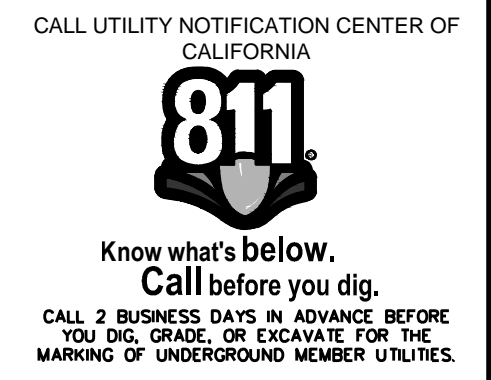
- NOTES:**
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WILLOW AVENUE WATER MAIN - PROFILE 4+50 TO 7+50
Scale: 1"=20' Horizontal, 1"=4' Vertical



ARC WAY WATER MAIN - PROFILE 23+00 TO 24+50
Scale: 1"=20' Horizontal, 1"=4' Vertical



APPROVAL UNDERGOING BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.	
ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE: 03/28/24	R.C.E. NO. 42634 EXPIRES 03/31/26
DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
DESIGN: CTL DATE: 03/28/24	DATE: 03/28/24
DRAWN: DMM/PJB DATE: 03/28/24	DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24	DATE: 03/28/24

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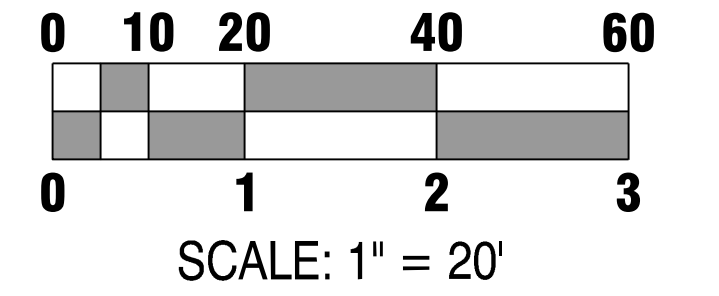
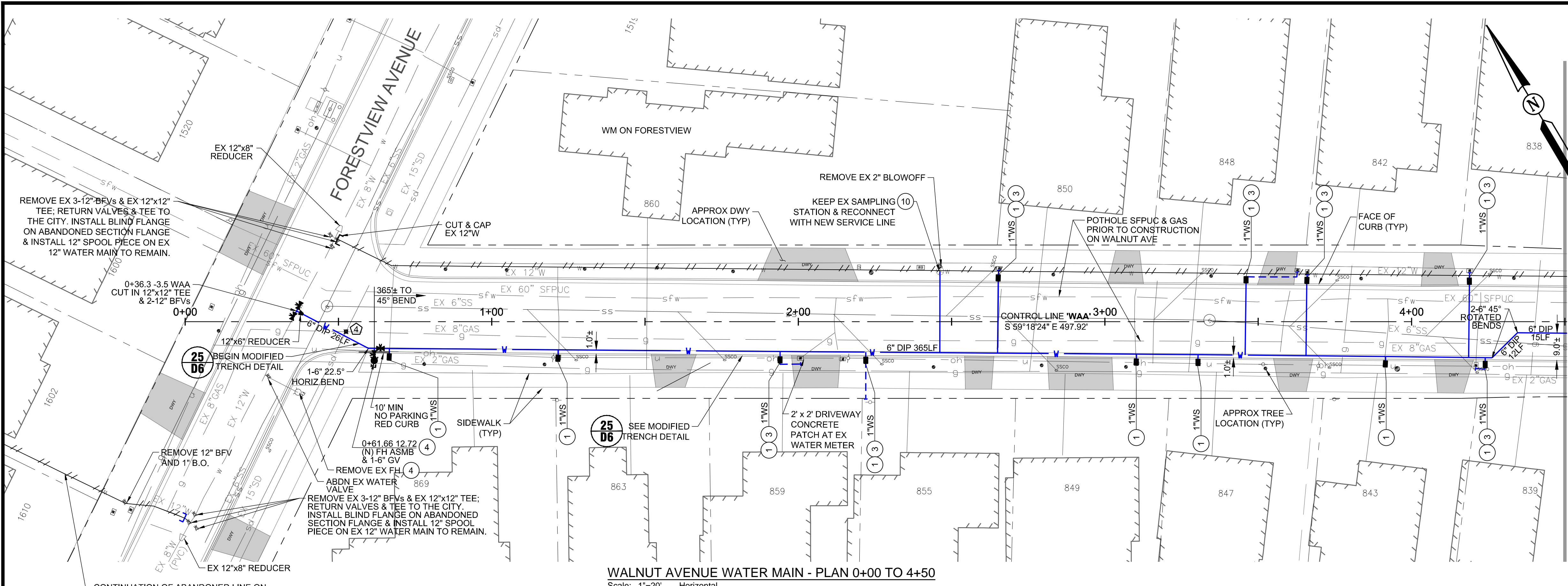
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SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WILLOW AVENUE - PLAN & PROFILE - STA 4+50 TO 9+00
WH PROJ. NO. 140-115 CP #84893

REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

SHEET **6** OF **22** SHEETS

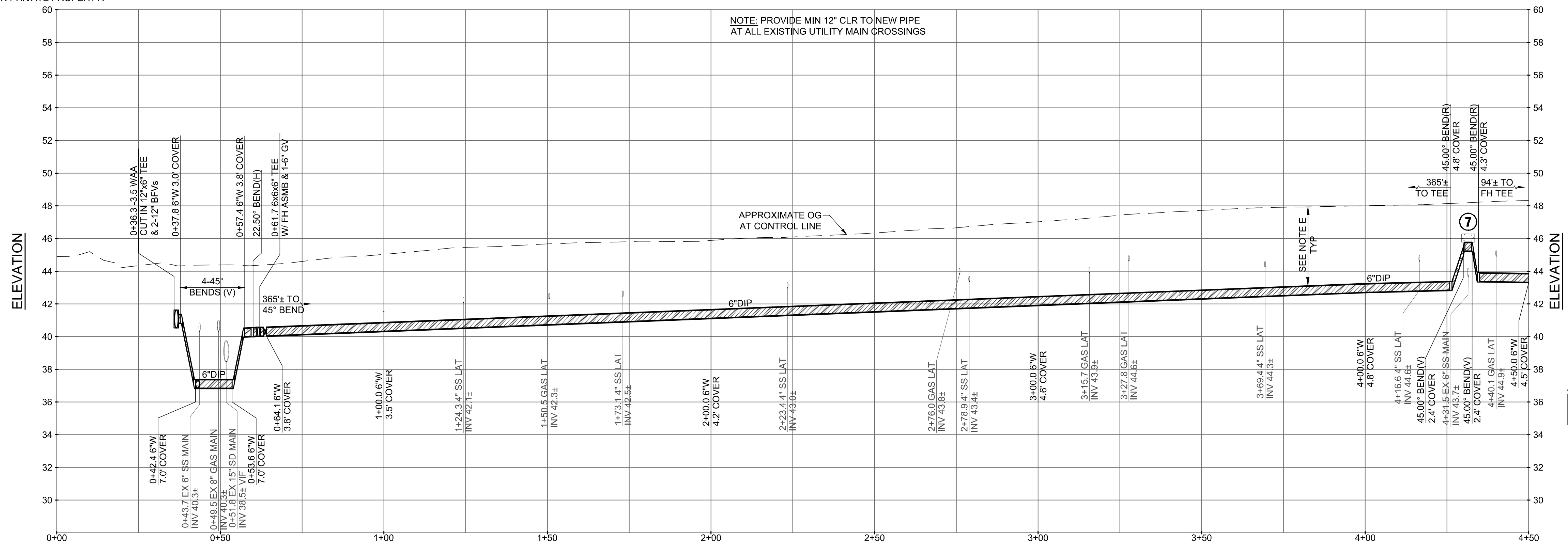
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WALNUT AVENUE WATER MAIN - PLAN 0+00 TO 4+50
Scale: 1"=20' Horizontal

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 - A MINIMUM OF 36" COVER IS REQUIRED ABOVE ALL WATER MAIN IN BURLINGAME STREETS RIGHT OF WAY.
 - REPLACE ALL TRAFFIC LOOPS IN LANE GROUP WHEN ANY 1 OR MORE MEMBERS OF A GROUP IS DAMAGED BY WORK.
 - STRIPING RESTORATION REQUIREMENTS SHALL BE PER CALTRANS STANDARDS.
 - CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS FOR MAINS AND SERVICES TO CONFIRM ADEQUATE CLEARANCE.
 - WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.



WALNUT AVENUE WATER MAIN - PROFILE 0+00 TO 4+50
Scale: 1"=20' Horizontal, 1"=4' Vertical

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA

POTHOLE LEGEND (SEE PLAN FOR APPROX. LOCATION)

POTHOLE #	UTILITY	DEPTH TO TOP	EX PAVEMENT SECTION
PH4	8" GAS	39"	4" AC / 4" PCC

Know what's below. Call before you dig. CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

APPROVAL RECOMMENDED BY:
Brandon Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26
R.C.E. NO. 42634

DESIGNED UNDER THE DIRECTION OF:
Brandon Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

DESIGN: CTL DATE: 03/28/24
DRAWN: DMM/PJB DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24

SHEET 7 OF 22 SHEETS

CP #849893

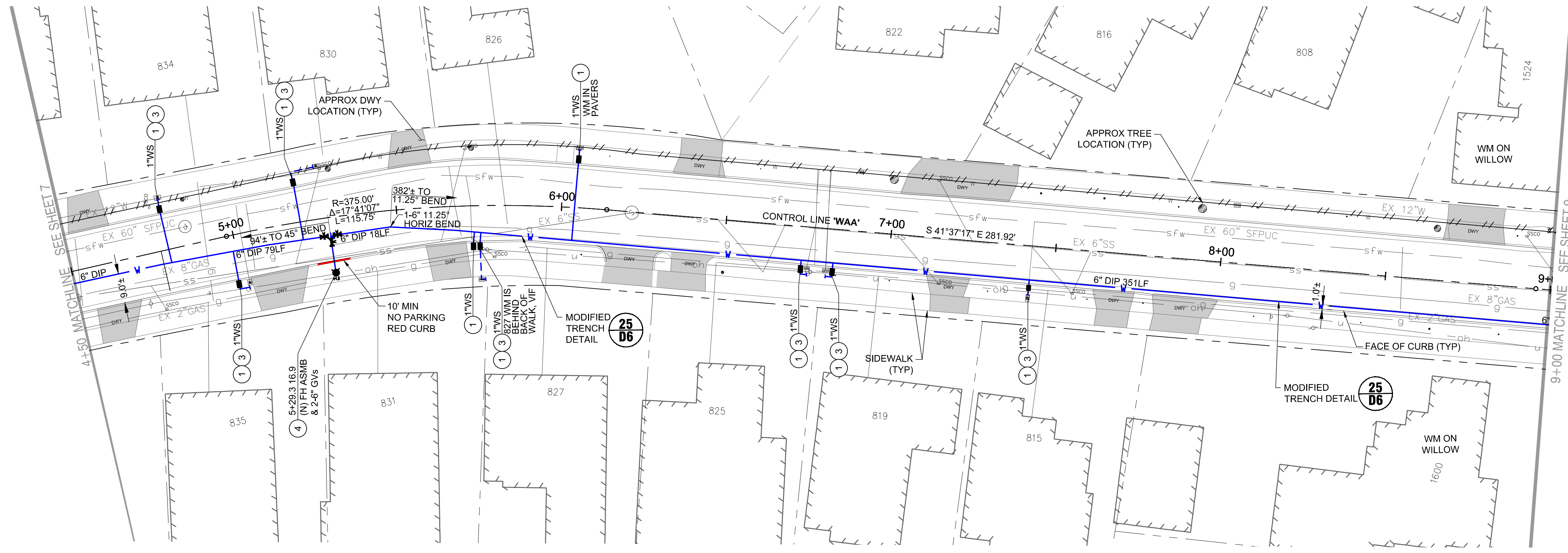
NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	DATE
	03/28/24	ISSUE FOR BID	BSD	

WILSEY HAM
Engineering, Surveying & Planning
3130 La Selva Street, Suite 100
San Mateo, CA 94403
650.349.2151
wilseyham.com

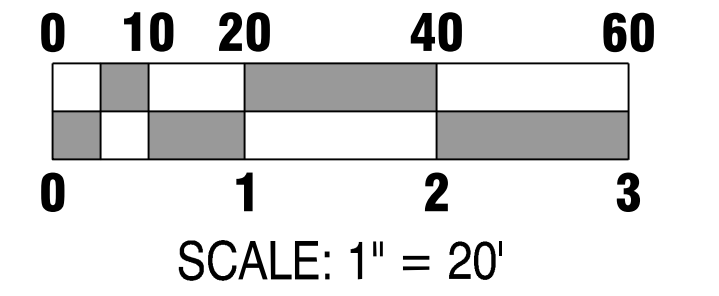
SAN MATEO COUNTY CITY OF BURLINGAME CALIFORNIA

WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WALNUT AVENUE - PLAN & PROFILE - STA 0+00 TO 4+50
WH PROJ. NO. 140-115

H:\140-Burlingame\140-115 Burlingame Terrace Water Main Replacement\Engineering\Construction Drawings\1-13 West Burlingame Terrace Sheets.dwg, 3/27/24, 09:58:02 AM, dmack

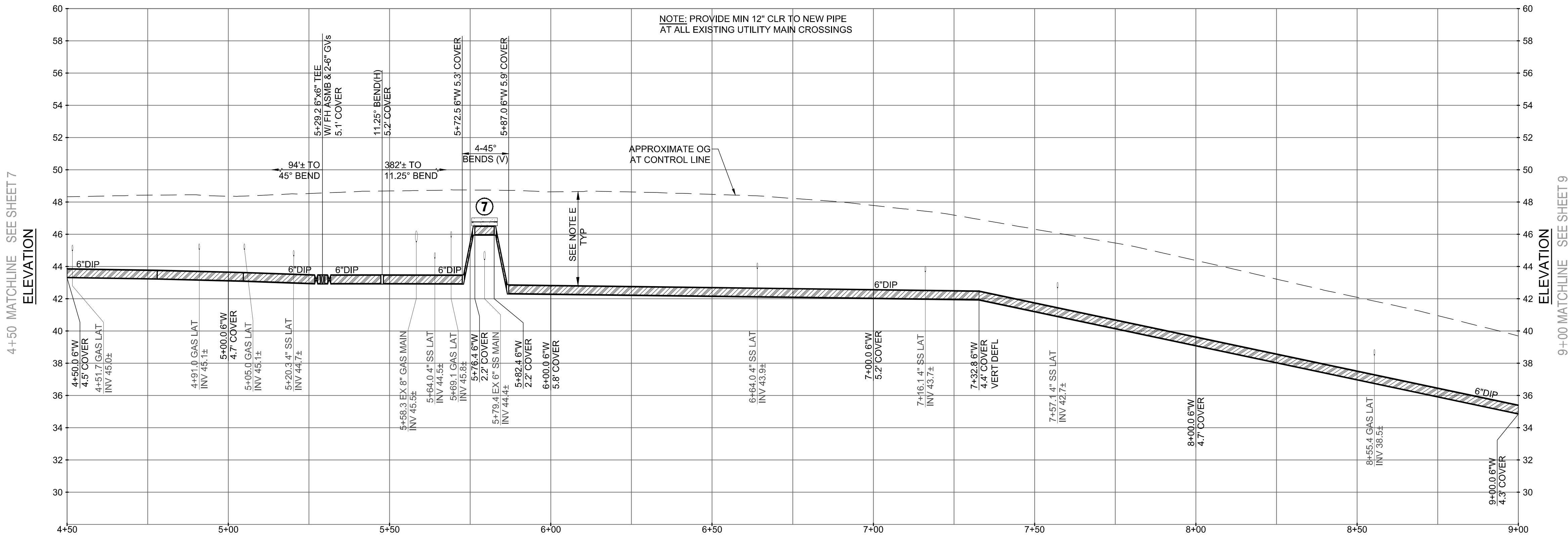


WALNUT AVENUE WATER MAIN - PLAN 4+50 TO 9+00
Scale: 1"=20' Horizontal

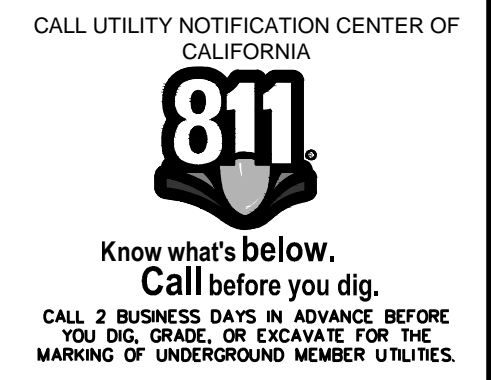


- KEY NOTES:**
- ① INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
 - ② INSTALL NEW 2" WATER SERVICE PER DETAIL 5 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS.
 - ③ RELOCATE WATER METER AND SERVICE. CONNECT NEW WATER METER TO EXISTING CUSTOMER-SIDE WATER SERVICE. INSTALL NEW LENGTH OF CUSTOMER-SIDE WATER SERVICE AS NEEDED. MATCH EXISTING CUSTOMER-SIDE WATER SERVICE DIAMETER.
 - ④ FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
 - ⑤ SS CROSSING, SEE DETAIL 9 ON SHEET D2.
 - ⑥ INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
 - ⑦ WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
 - ⑧ MATCH EX FIRE SERVICE OR AS NOTED. FIRE SERVICE PER DETAIL 18 ON SHEET D4.
 - ⑨ PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
 - ⑩ INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

- NOTES:**
- A. CAUTION: PROTECT EXISTING GAS AND HIGH VOLTAGE ELECTRIC LINES.
 - B. STATION AND OFFSET CALLOUTS ARE TO CONNECTION POINT AT THE CENTERLINE OF THE MAIN. OFFSETS ARE IN FEET AND POSITIVE IS TO THE RIGHT AND NEGATIVE IS TO THE LEFT.
 - C. UNLESS OTHERWISE NOTED, INVERT ELEVATIONS SHOWN ARE INVERT OF THE MAIN LINE PROFILE.
 - D. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS, TEES, REDUCERS, BLIND FLANGES, CAPS, AND PLUGS PER CITY STANDARDS. SEE DETAILS ON SHEET D1.
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 - F. REPLACE ALL TRAFFIC LOOPS IN LANE GROUP WHEN ANY 1 OR MORE MEMBERS OF A GROUP IS DAMAGED BY WORK.
 - G. STRIPING RESTORATION REQUIREMENTS SHALL BE PER CALTRANS STANDARDS.
 - H. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS FOR MAINS AND SERVICES TO CONFIRM ADEQUATE CLEARANCE.
 - I. WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.



WALNUT AVENUE WATER MAIN - PROFILE 4+50 TO 9+00
Scale: 1"=20' Horizontal, 1"=4' Vertical



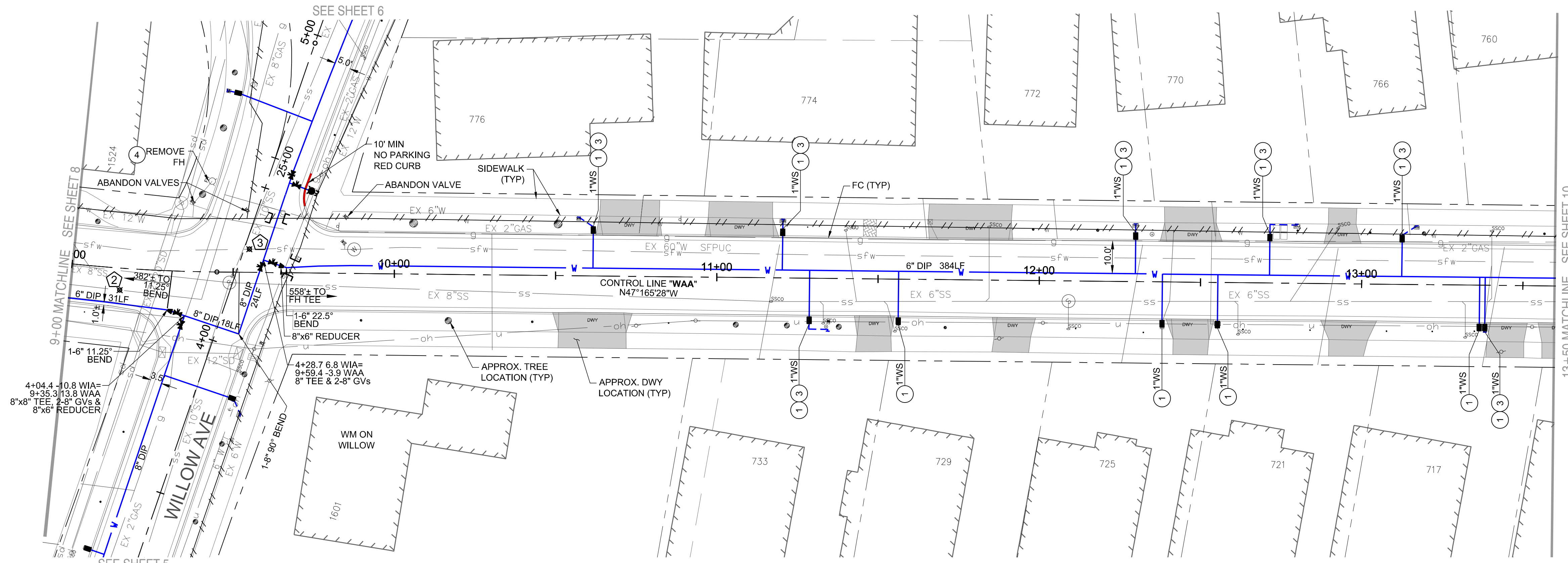
APPROVAL RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.	
ART MORIMOTO R.C.E. NO. 42634	ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26
DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	SHEET 8 OF 22 SHEETS
DESIGN: CTL DATE: 03/28/24	
DRAWN: DMM/PJB DATE: 03/28/24	
CHECKED: BSD DATE: 03/28/24	CP #84899

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	DATE
	03/28/24	ISSUE FOR BID	BSD	

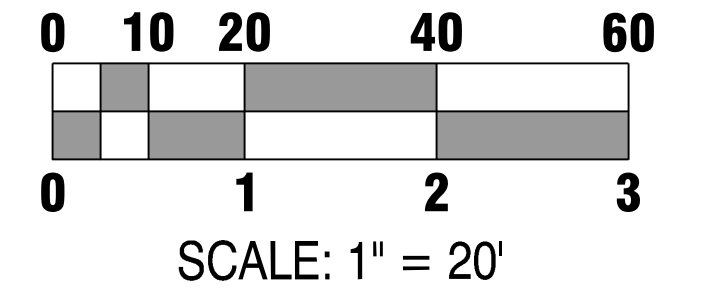
WILSEY HAM
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SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WALNUT AVE - PLAN & PROFILE - STA 4+50 TO 9+00
WH PROJ. NO. 140-115

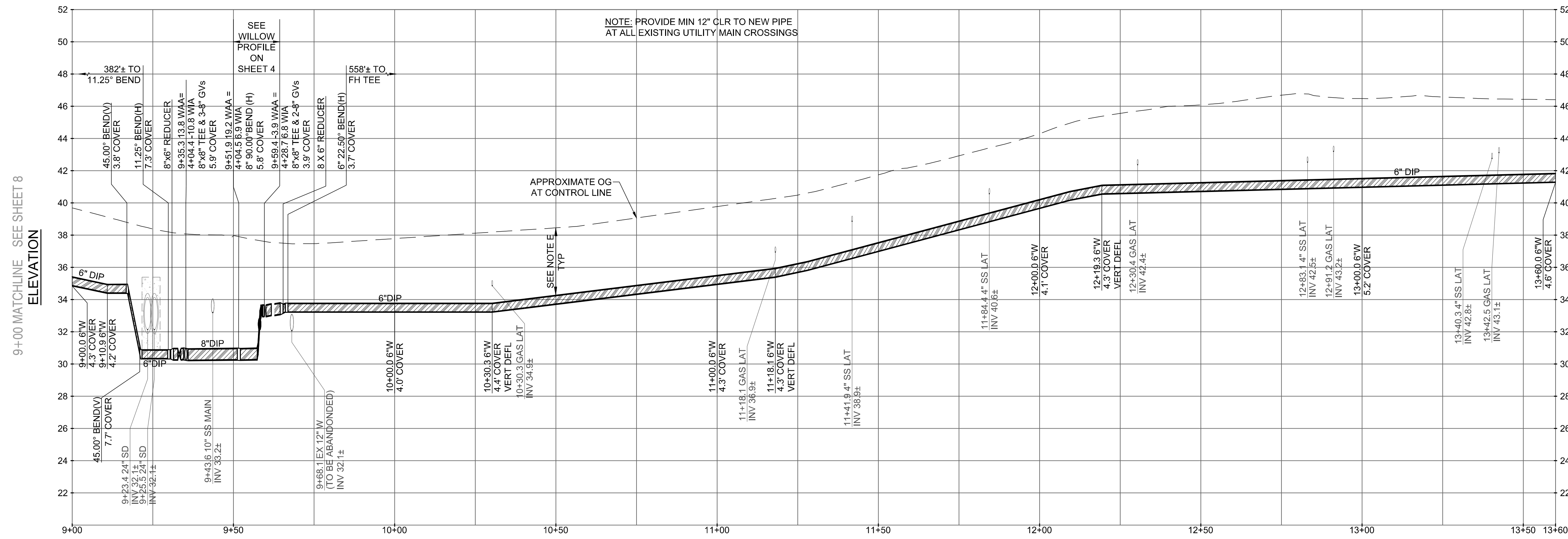
H:\140-Burlingame\140-115 Burlingame Terrace Water Main Replacement\Engineering\Construction Drawings\1-13 West Burlingame Terrace Sheets.dwg, 3/27/24, 10:02:10 AM, dmcock



WALNUT AVENUE WATER MAIN - PLAN 9+00 TO 13+50
Scale: 1"=20' Horizontal



- KEY NOTES:**
- INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
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 - FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
 - SS CROSSING, SEE DETAIL 9 ON SHEET D2.
 - INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
 - WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
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 - PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
 - INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.



WALNUT AVENUE WATER MAIN - PROFILE 9+00 TO 13+50
Scale: 1"=20' Horizontal, 1"=4' Vertical

- NOTES:**
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 - WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.

POTHOLE LEGEND (SEE PLAN FOR APPROX. LOCATION)

POTHOLE #	UTILITY	DEPTH TO TOP	EX PAVEMENT SECTION
PH2	8" GAS	30"	4" AC / 6" PCC
PH3	60" WATER	86"	6" AC

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA **811** Know what's below. Call before you dig. CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY
	03/28/24	ISSUE FOR BID	BSD

Project Mgr.: BSD 03/28/24
Project Eng.: CTL 03/28/24
Designer: DMM 03/28/24
Checked By: BSD 03/28/24
Drawn By: DMM PJB 03/28/24

WILSEY HAM
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 San Mateo, CA 94403
 650.349.2151
 wilseyham.com

SAN MATEO COUNTY CITY OF BURLINGAME CALIFORNIA

WEST BURLINGAME TERRACE WATER MAIN REPLACEMENT
WALNUT AVENUE - PLAN & PROFILE - STA 9+00 TO 13+60

WH PROJ. NO. 140-115
 CP #848993

APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
 BRANDON S. DAVIS DATE
 WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26
 R.C.E. NO. 42634

DESIGNED UNDER THE DIRECTION OF:
Brandon S. Davis 3/28/24
 BRANDON S. DAVIS DATE
 WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

DESIGN: CTL DATE: 03/28/24
 DRAWN: DMM/PJB DATE: 03/28/24
 CHECKED: BSD DATE: 03/28/24

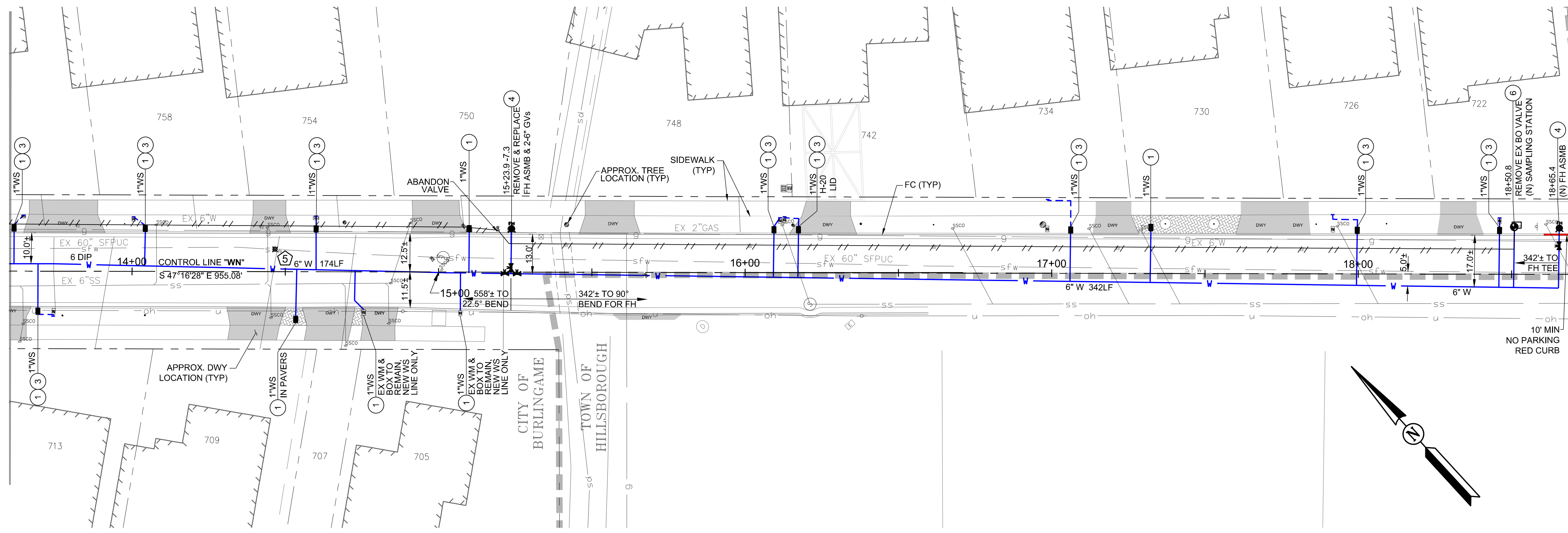
REGISTERED PROFESSIONAL ENGINEER
 BRANDON S. DAVIS
 C61024
 CIVIL
 STATE OF CALIFORNIA

SHEET **9** OF **22** SHEETS

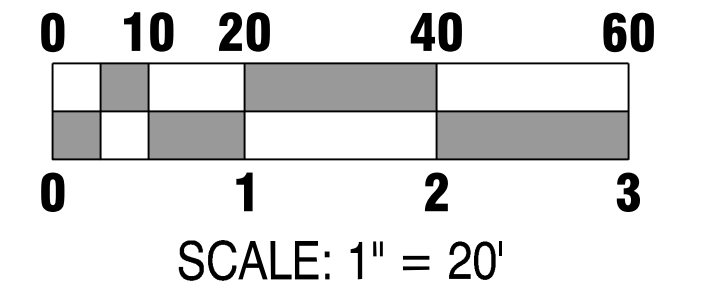
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13+50 MATCHLINE - SEE SHEET 9

13+50 MATCHLINE - SEE SHEET 9



WALNUT AVENUE WATER MAIN - PLAN 13+50 TO 18+70
Scale: 1"=20' Horizontal

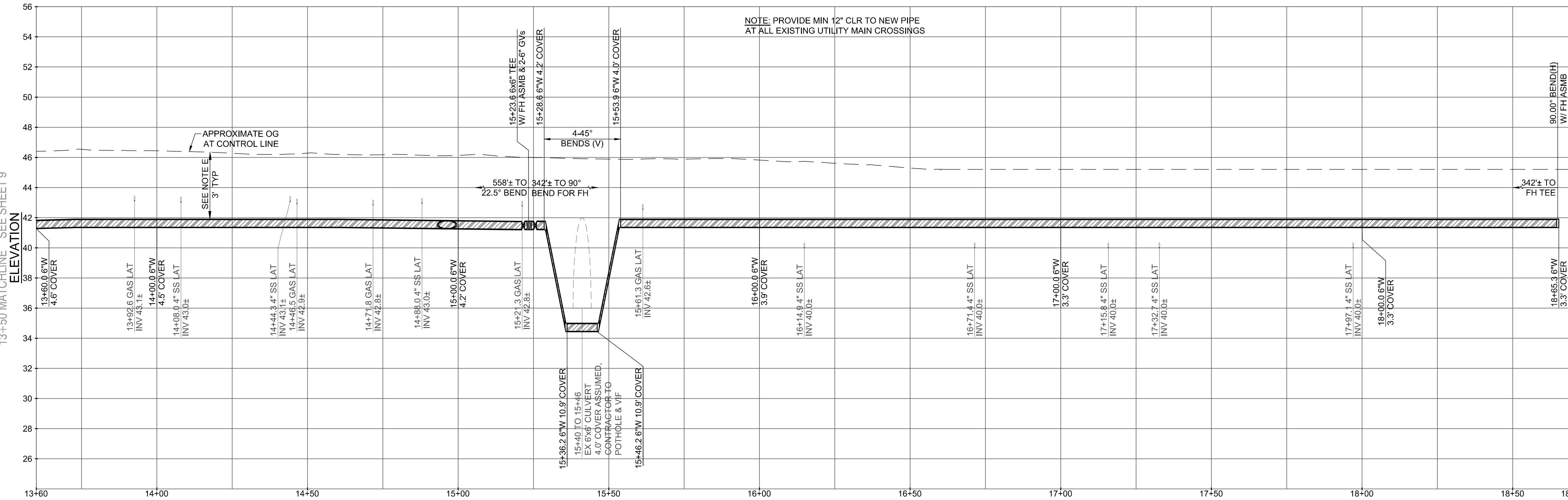


KEY NOTES:

- ① INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
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- ④ FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
- ⑤ SS CROSSING, SEE DETAIL 9 ON SHEET D2.
- ⑥ INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
- ⑦ WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
- ⑧ MATCH EX FIRE SERVICE OR AS NOTED. FIRE SERVICE PER DETAIL 18 ON SHEET D4.
- ⑨ PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
- ⑩ INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

NOTES:

- A. CAUTION: PROTECT EXISTING GAS AND HIGH VOLTAGE ELECTRIC LINES.
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WALNUT AVENUE WATER MAIN - PROFILE 13+50 TO 18+70
Scale: 1"=20' Horizontal, 1"=4' Vertical

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA



Know what's below.
Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

POTHOLE LEGEND (SEE PLAN FOR APPROX. LOCATION)

POTHOLE #	UTILITY	DEPTH TO TOP	EX PAVEMENT SECTION
PH5	60" WATER	69"	5' AC

APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

ART MORIMOTO R.C.E. NO. 42634	ASSISTANT PUBLIC WORKS DIRECTOR	DATE EXPIRES 03/31/26
DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24		
DESIGN: CTL	DATE: 03/28/24	
DRAWN: DMM/PJB	DATE: 03/28/24	
CHECKED: BSD	DATE: 03/28/24	

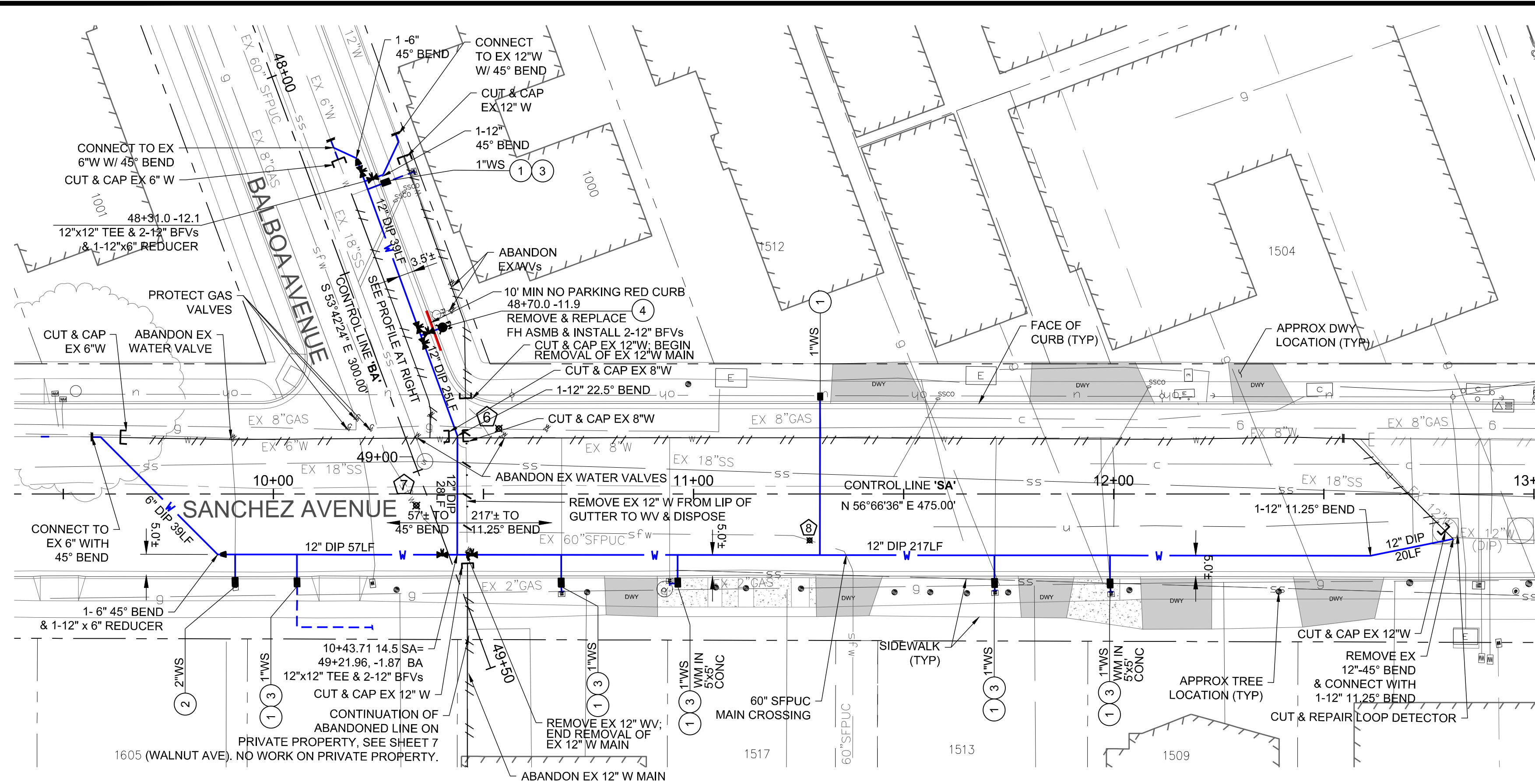
SHEET **10** OF **22** SHEETS

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	DATE
	03/28/24	ISSUE FOR BID	BSD	

WILSEY HAM
Engineering, Surveying & Planning
3130 La Selva Street, Suite 100
San Mateo, CA 94403
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SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WALNUT AVENUE - PLAN & PROFILE - STA 13+60 TO 18+70
WH PROJ. NO. 140-115 CP #848993

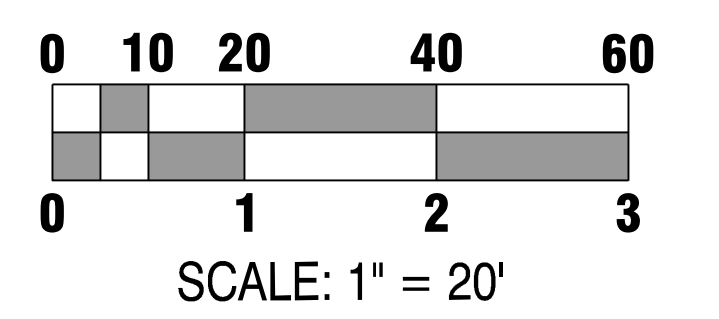
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SANCHEZ AVENUE WATER MAIN - PLAN 9+40 TO 13+00
BALBOA AVENUE WATER MAIN - PLAN 47+90 TO 49+50
 Scale: 1"=20' Horizontal

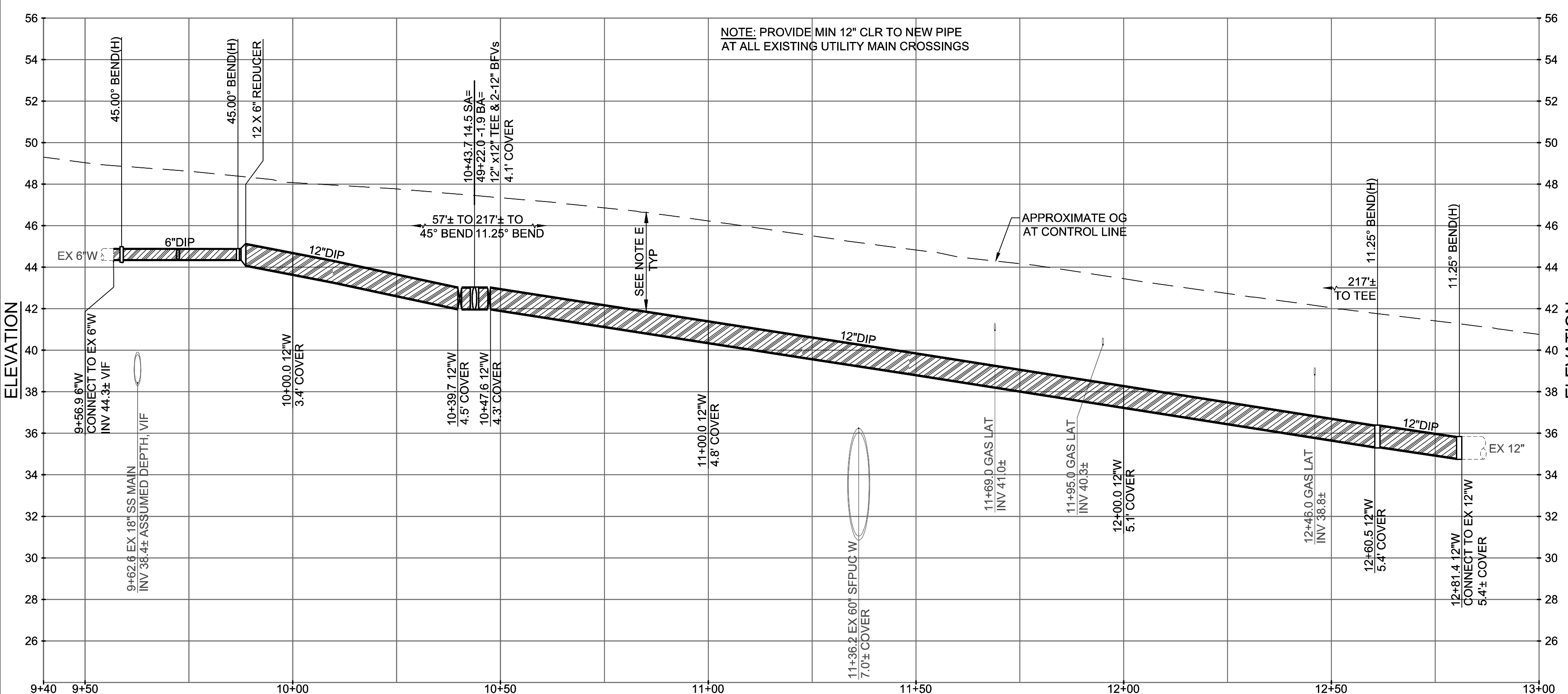
POTHOLE LEGEND (SEE PLAN FOR APPROX. LOCATION)

POTHOLE #	UTILITY	DEPTH TO TOP	EX PAVEMENT SECTION
PH6	8" GAS	36"	4" AC / 5" PCC
PH7	60" WATER	96"	6" AC
PH8	60" WATER	84"	5" AC

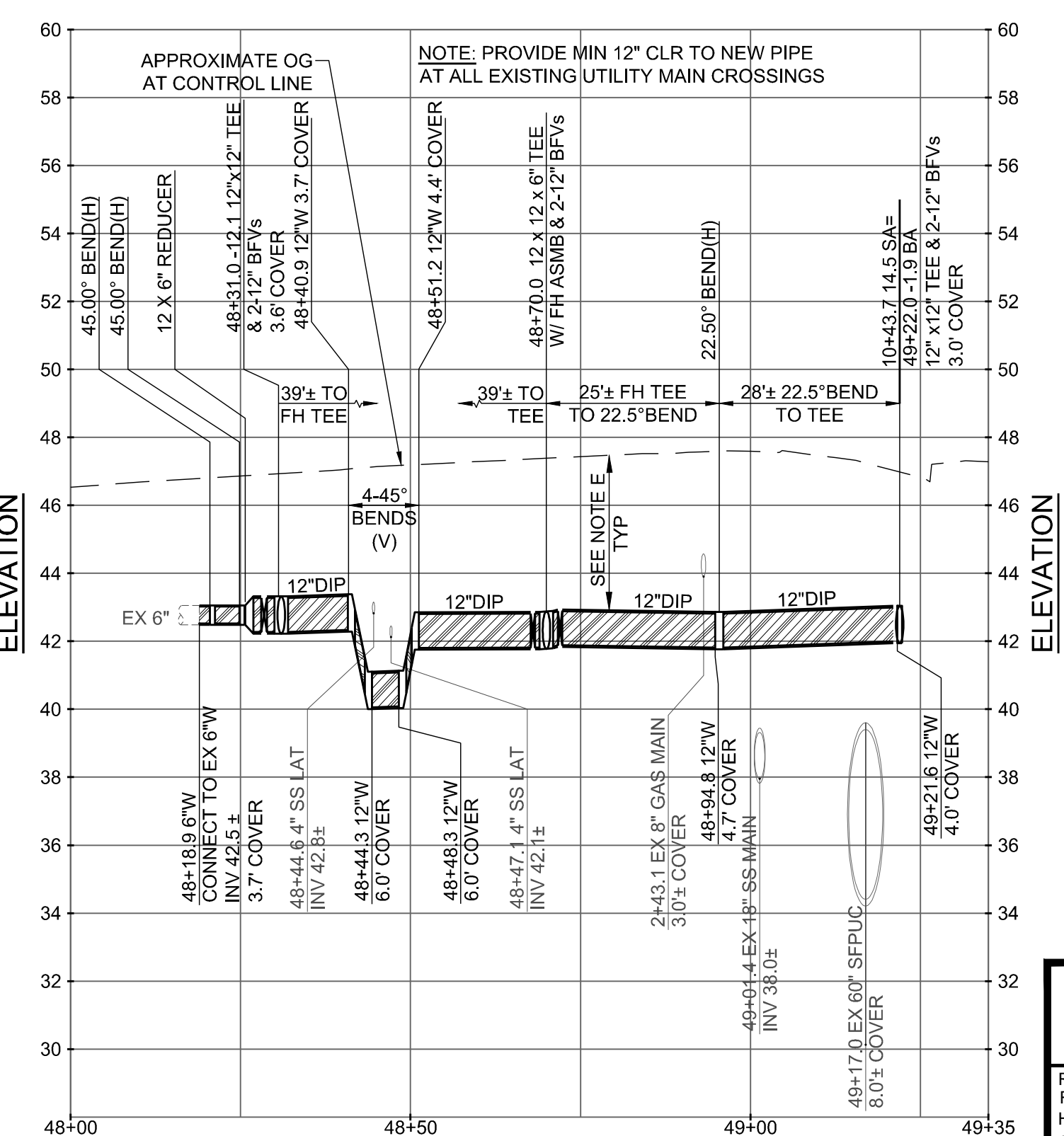


- KEY NOTES:**
- INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES, REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
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 - INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

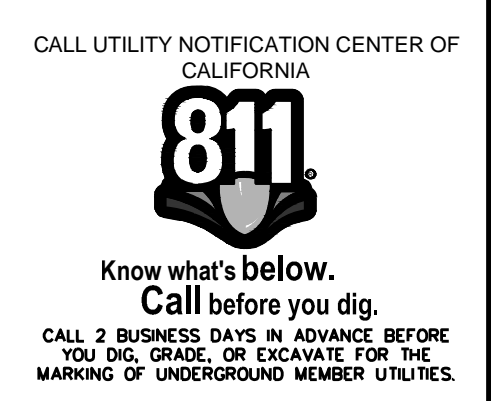
- NOTES:**
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 - WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.



SANCHEZ AVENUE WATER MAIN - PROFILE 9+40 TO 13+00
 Scale: 1"=20' Horizontal, 1"=4' Vertical



BALBOA AVENUE WATER MAIN - PROFILE 48+00 TO 49+35
 Scale: 1"=20' Horizontal, 1"=4' Vertical



APPROVAL RECOMMENDED BY: *Brandon S. Davis* 3/28/24
 BRANDON S. DAVIS DATE
 WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26
 R.C.E. NO. 42634

DESIGNED UNDER THE DIRECTION OF: *Brandon S. Davis* 3/28/24
 BRANDON S. DAVIS DATE
 WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

DESIGN: CTL DATE: 03/28/24
 DRAWN: DMM/PJB DATE: 03/28/24
 CHECKED: BSD DATE: 03/28/24

CITY OF BURLINGAME
 WEST BURLINGAME TERRACE
 WATER MAIN REPLACEMENT
SANCHEZ AVENUE WATER MAIN - PLAN & PROFILE 9+40 TO 13+00
 WH PROJ. NO. 140-115 CP #849893

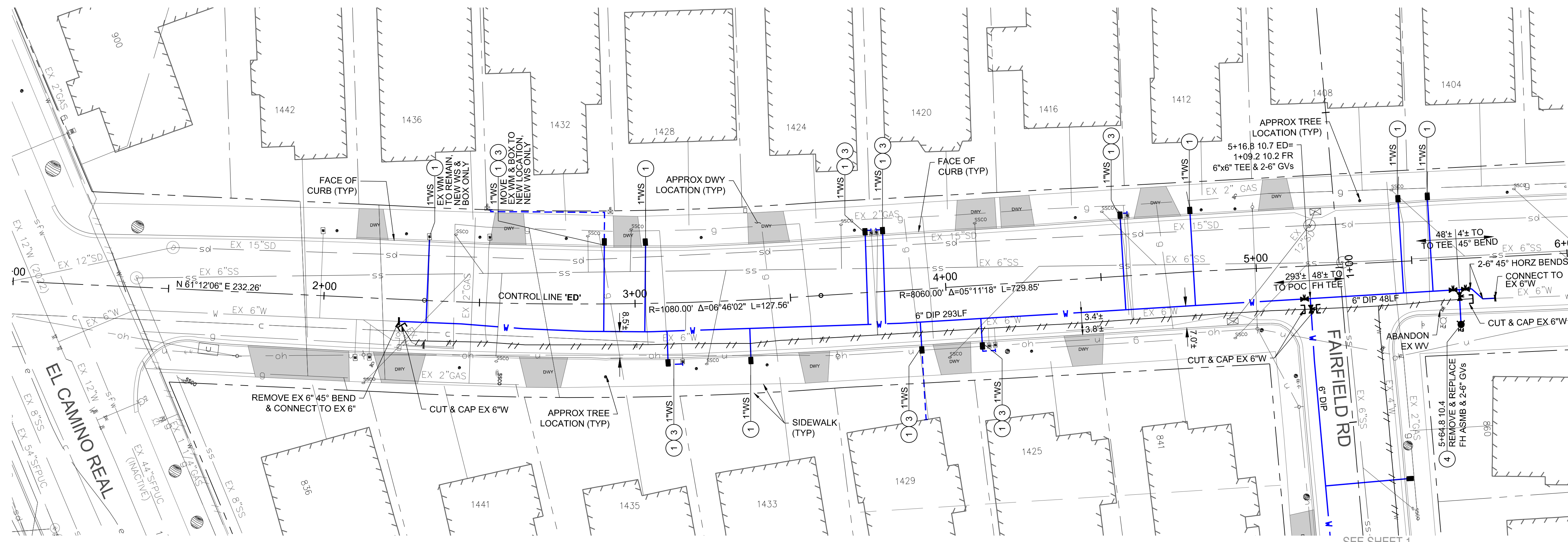
SHEET 11 OF 22 SHEETS

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	DATE
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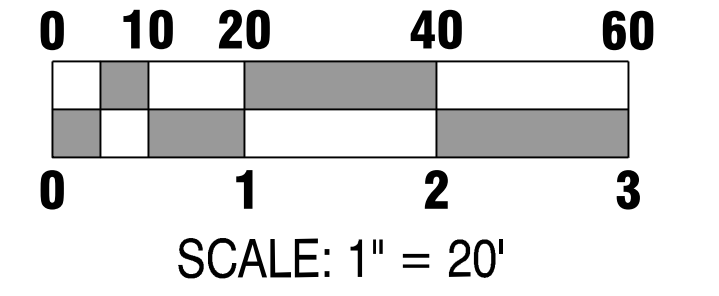
WILSEY HAM
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 3130 La Selva Street, Suite 100
 San Mateo, CA 94403
 650.349.2151
 wilseyham.com

SAN MATEO COUNTY
CITY OF BURLINGAME
 CALIFORNIA

H:\140-Burlingame\140-115-Burlingame-Terrace Water Main Replacement\Engineering\Construction Drawings\1-13-West Burlingame-Terrace Sheets.dwg 3/27/24 10:15:00 AM dmmck



EDGEHILL DRIVE WATER MAIN - PLAN 1+00 TO 6+00
Scale: 1"=20' Horizontal

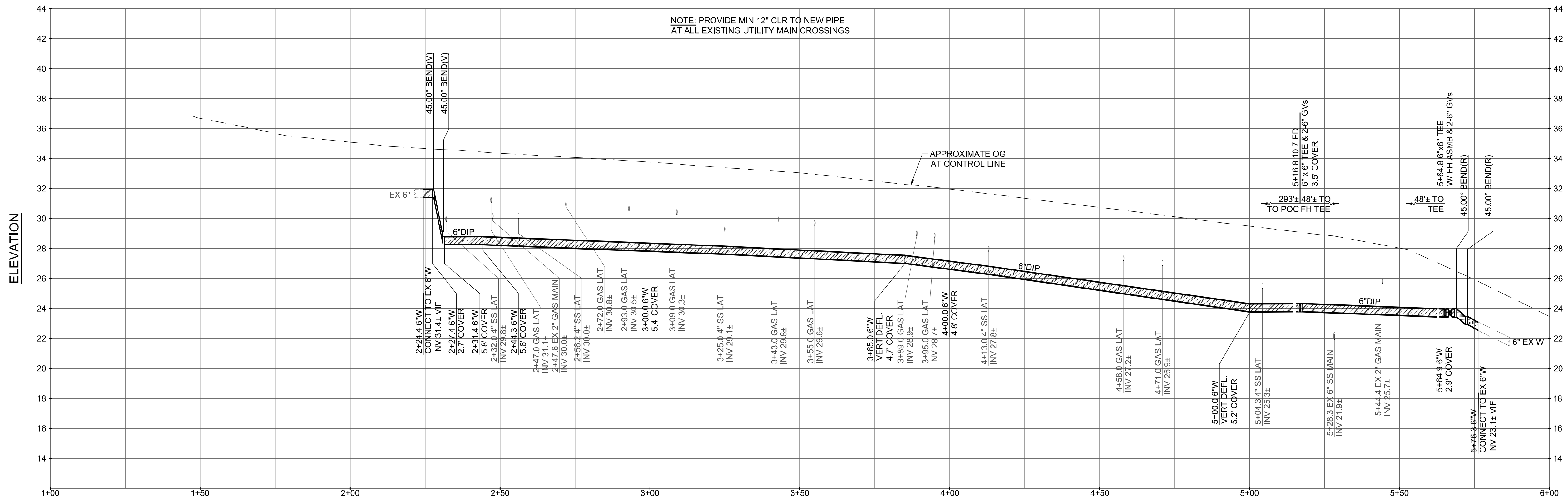


KEY NOTES:

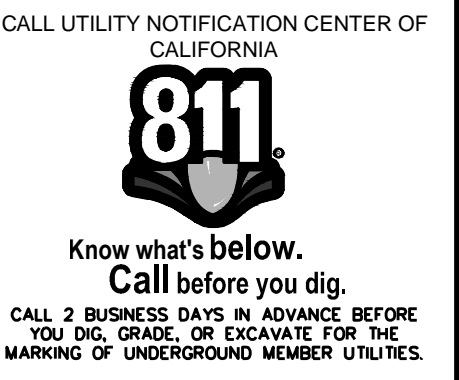
- 1 INSTALL NEW 1" WATER SERVICE PER DETAIL 4 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS. ALL WATER SERVICES ARE 1" UNLESS OTHERWISE NOTED.
- 2 INSTALL NEW 2" WATER SERVICE PER DETAIL 5 ON SHEET D1. REMOVE EXISTING WATER SERVICES FROM EXISTING WATER MAIN (TO BE ABANDONED) TO EXISTING WATER METER. DISPOSE OF EXISTING WATER METER BOXES. REPLACE WITH NEW WATER METER BOXES AND RESTORE SURFACE TO MATCH SURROUNDING MATERIAL/LANDSCAPING. REUSE EXISTING WATER METERS.
- 3 RELOCATE WATER METER AND SERVICE. CONNECT NEW WATER METER TO EXISTING CUSTOMER-SIDE WATER SERVICE. INSTALL NEW LENGTH OF CUSTOMER-SIDE WATER SERVICE AS NEEDED. MATCH EXISTING CUSTOMER-SIDE WATER SERVICE DIAMETER.
- 4 FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
- 5 SS CROSSING, SEE DETAIL 9 ON SHEET D2.
- 6 INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
- 7 WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
- 8 MATCH EX FIRE SERVICE OR AS NOTED. FIRE SERVICE PER DETAIL 18 ON SHEET D4.
- 9 PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
- 10 INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

NOTES:

- A. CAUTION: PROTECT EXISTING GAS AND HIGH VOLTAGE ELECTRIC LINES.
- B. STATION AND OFFSET CALLOUTS ARE TO CONNECTION POINT AT THE CENTERLINE OF THE MAIN. OFFSETS ARE IN FEET AND POSITIVE IS TO THE RIGHT AND NEGATIVE IS TO THE LEFT.
- C. UNLESS OTHERWISE NOTED, INVERT ELEVATIONS SHOWN ARE INVERT OF THE MAIN LINE PROFILE.
- D. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS, TEES, REDUCERS, BLIND FLANGES, CAPS, AND PLUGS PER CITY STANDARDS. SEE DETAILS ON SHEET D1.
- E. A MINIMUM OF 36" COVER IS REQUIRED ABOVE ALL WATER MAIN IN BURLINGAME STREETS RIGHT OF WAY.
- F. REPLACE ALL TRAFFIC LOOPS IN LANE GROUP WHEN ANY 1 OR MORE MEMBERS OF A GROUP IS DAMAGED BY WORK.
- G. STRIPING RESTORATION REQUIREMENTS SHALL BE PER CALTRANS STANDARDS.
- H. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS FOR MAINS AND SERVICES TO CONFIRM ADEQUATE CLEARANCE.
- I. WHERE POSSIBLE, INSTALL WATER METER 3' FROM DRIVEWAY, OTHERWISE USE H-20 RATED LID.



EDGEHILL DRIVE WATER MAIN - PROFILE 1+00 TO 6+00
Scale: 1"=20' Horizontal, 1"=4' Vertical



APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

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DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24		
DESIGN: CTL	DATE: 03/28/24	
DRAWN: DMM/PJB	DATE: 03/28/24	
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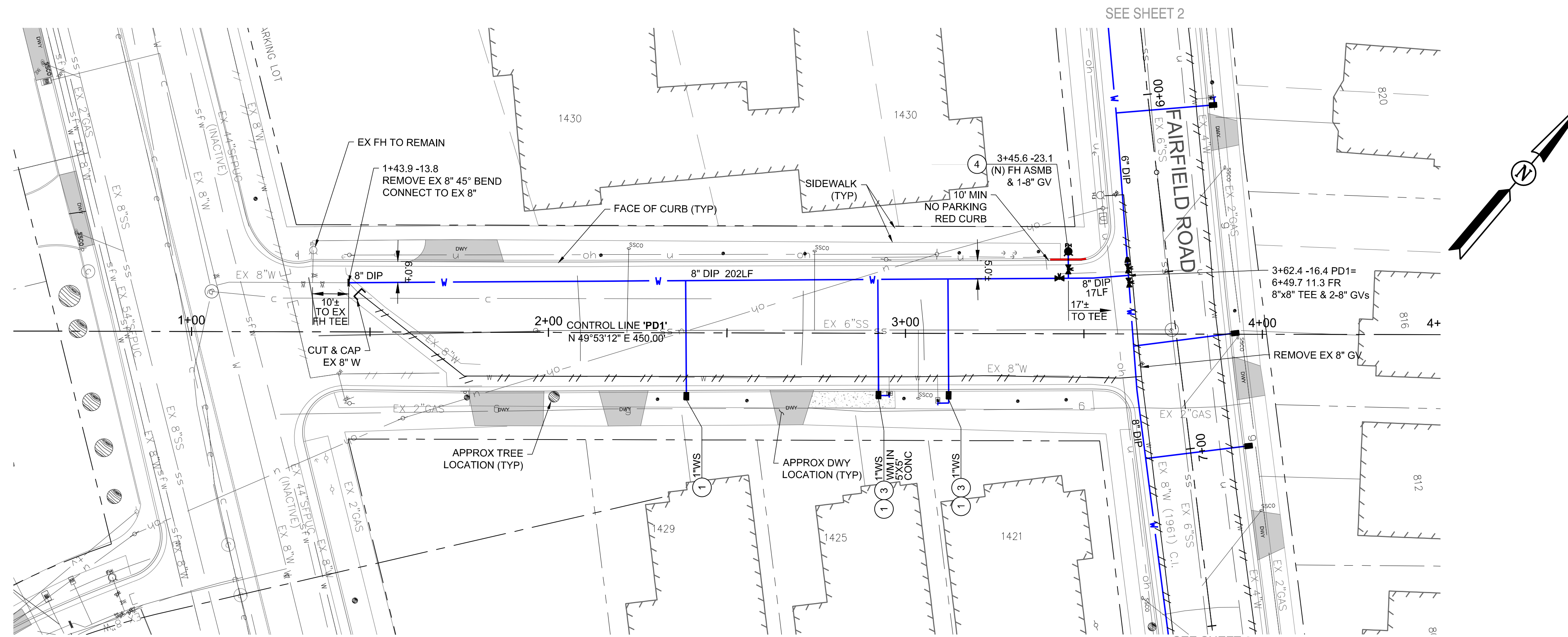
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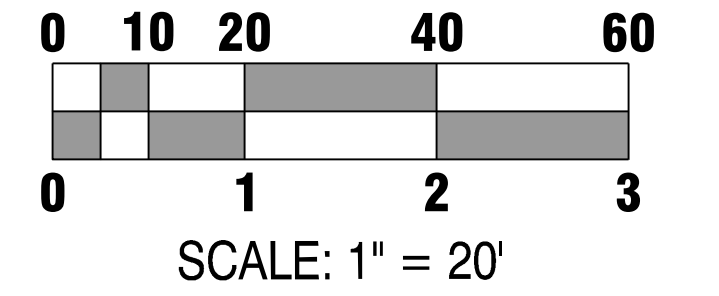
SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
EDGEHILL DRIVE - PLAN & PROFILE - STA 1+00 TO 6+00
WH PROJ. NO. 140-115 CP #849893

DESIGNED UNDER THE DIRECTION OF:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24
DESIGN: CTL DATE: 03/28/24
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SHEET
12
OF
22
SHEETS



PALM DRIVE WATER MAIN - PLAN 0+50 TO 4+50
Scale: 1"=20' Horizontal

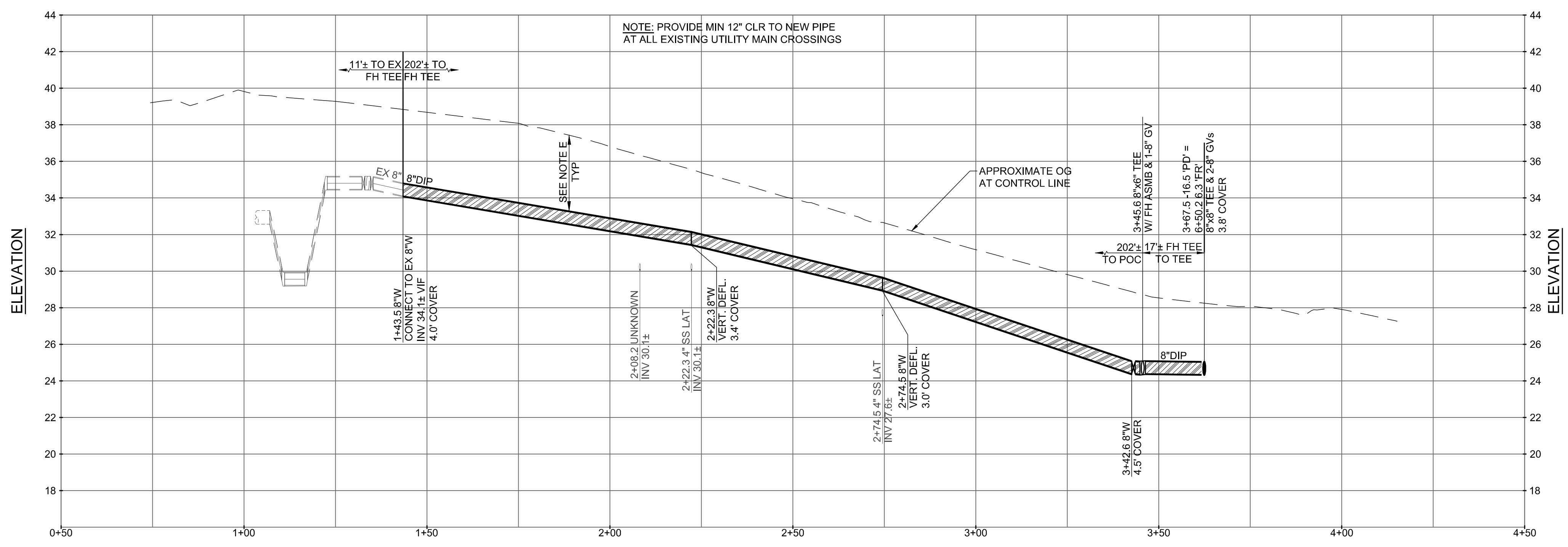


KEY NOTES:

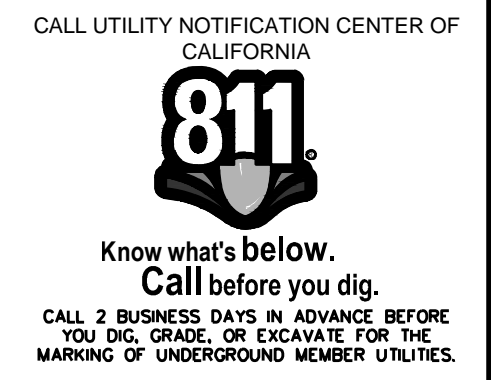
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- ④ FIRE HYDRANT ASSEMBLY PER DETAILS 15 AND 17 ON SHEET D3.
- ⑤ SS CROSSING, SEE DETAIL 9 ON SHEET D2.
- ⑥ INSTALL NEW SAMPLING STATION PER DETAIL 16 ON SHEET D3.
- ⑦ WHERE 3' COVER CANNOT BE MAINTAINED DUE TO DEEP OBSTRUCTION, CROSS OVER OBSTRUCTION WITH 12" CLR. RETURN TO FULL 3' COVER AS SOON AS POSSIBLE. INSTALL CONCRETE CAP PER DETAIL 25 ON D6.
- ⑧ MATCH EX FIRE SERVICE OR AS NOTED. FIRE SERVICE PER DETAIL 18 ON SHEET D4.
- ⑨ PIPE SHOWN FOR ABANDONMENT MUST REMAIN IN SERVICE UNTIL NEW MAIN IS INSTALLED AND READY TO BE TIED-IN.
- ⑩ INSTALL NEW WATER SERVICE LINE TO EX SAMPLING STATION PER DETAIL 16 ON SHEET D3.

NOTES:

- A. CAUTION: PROTECT EXISTING GAS AND HIGH VOLTAGE ELECTRIC LINES.
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PALM DRIVE WATER MAIN - PROFILE 0+50 TO 4+50
Scale: 1"=20' Horizontal, 1"=4' Vertical



APPROVAL RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
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DESIGN: CTL DATE: 03/28/24	DRAWN: DMM/PJB DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24	CITY OF BURLINGAME REGISTERED PROFESSIONAL ENGINEER BRANDON S. DAVIS C61024 CIVIL STATE OF CALIFORNIA

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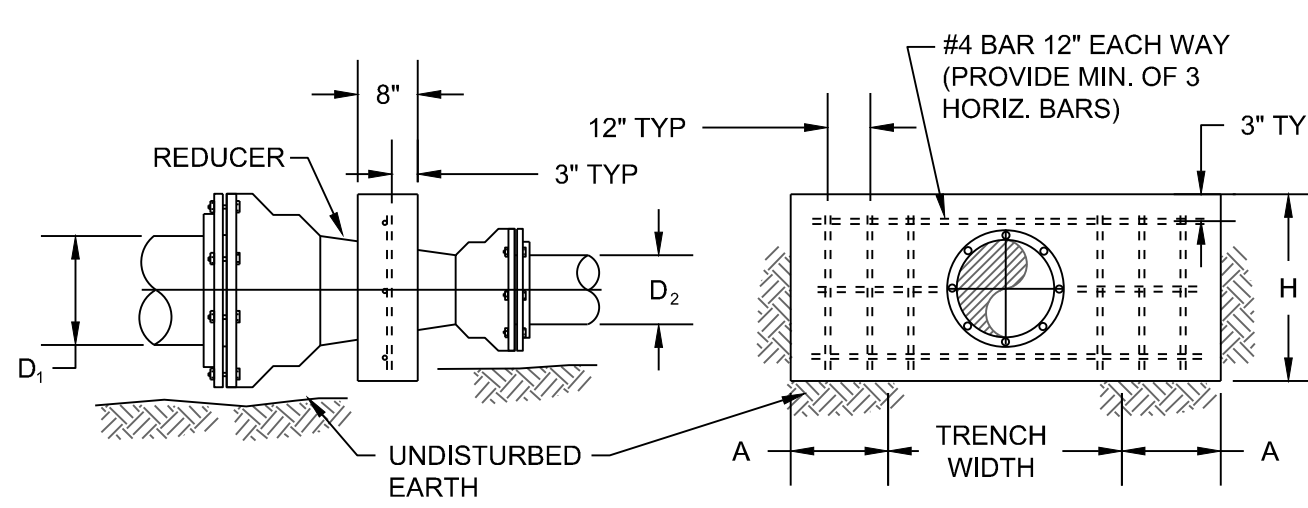
SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
PALM DRIVE WATER MAIN - PLAN & PROFILE - STA 0+50 TO 4+00
WH PROJ. NO. 140-115 CP #848993

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CITY OF BURLINGAME
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BRANDON S. DAVIS
C61024
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STATE OF CALIFORNIA

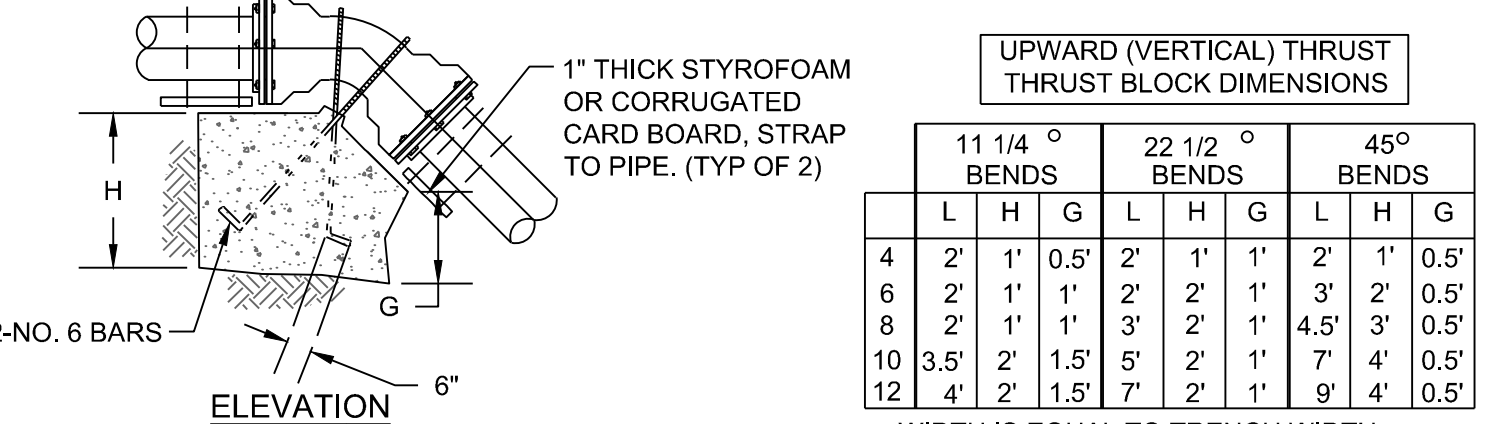
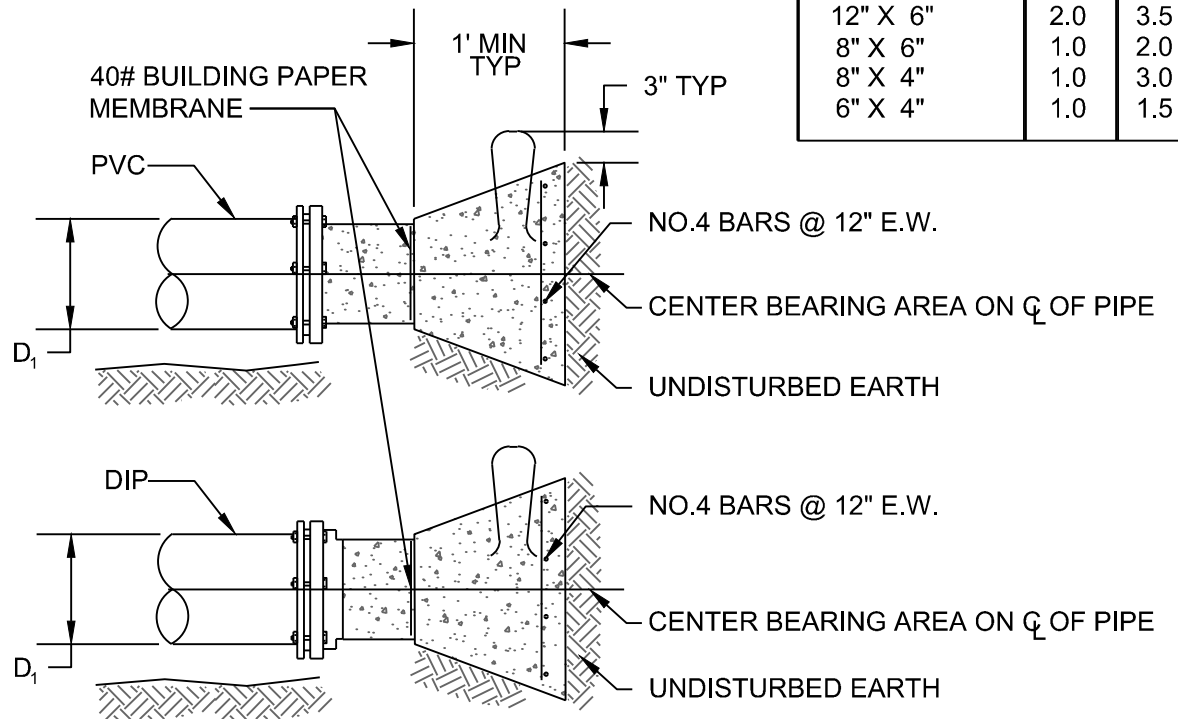
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ANCHOR BLOCK FOR REDUCERS

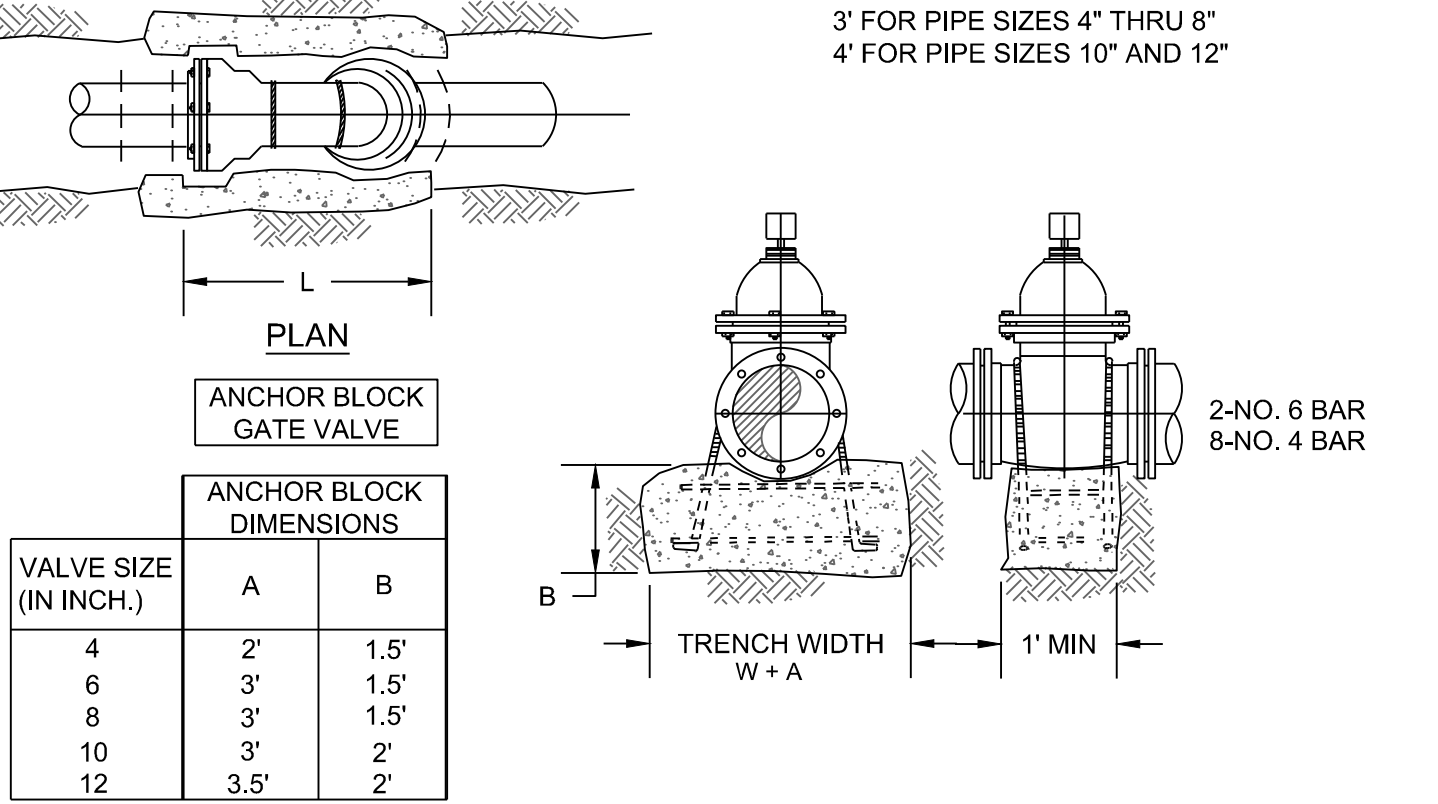
REDUCER SIZE D ₁ X D ₂	H (FT.)	A (FT.)
12" X 10"	1.5	2.0
12" X 8"	2.0	2.5
12" X 6"	2.0	3.5
8" X 6"	1.0	2.0
8" X 4"	1.0	3.0
6" X 4"	1.0	1.5



UPWARD (VERTICAL) THRUST BLOCK DIMENSIONS

11 1/4° BENDS			22 1/2° BENDS			45° BENDS			
L	H	G	L	H	G	L	H	G	
4	2'	1'	0.5'	2'	1'	1'	2'	1'	0.5'
6	2'	1'	1'	2'	2'	1'	3'	2'	0.5'
8	2'	1'	1'	3'	2'	1'	4.5'	3'	0.5'
10	3.5'	2'	1.5'	5'	2'	1'	7'	4'	0.5'
12	4'	2'	1.5'	7'	2'	1'	9'	4'	0.5'

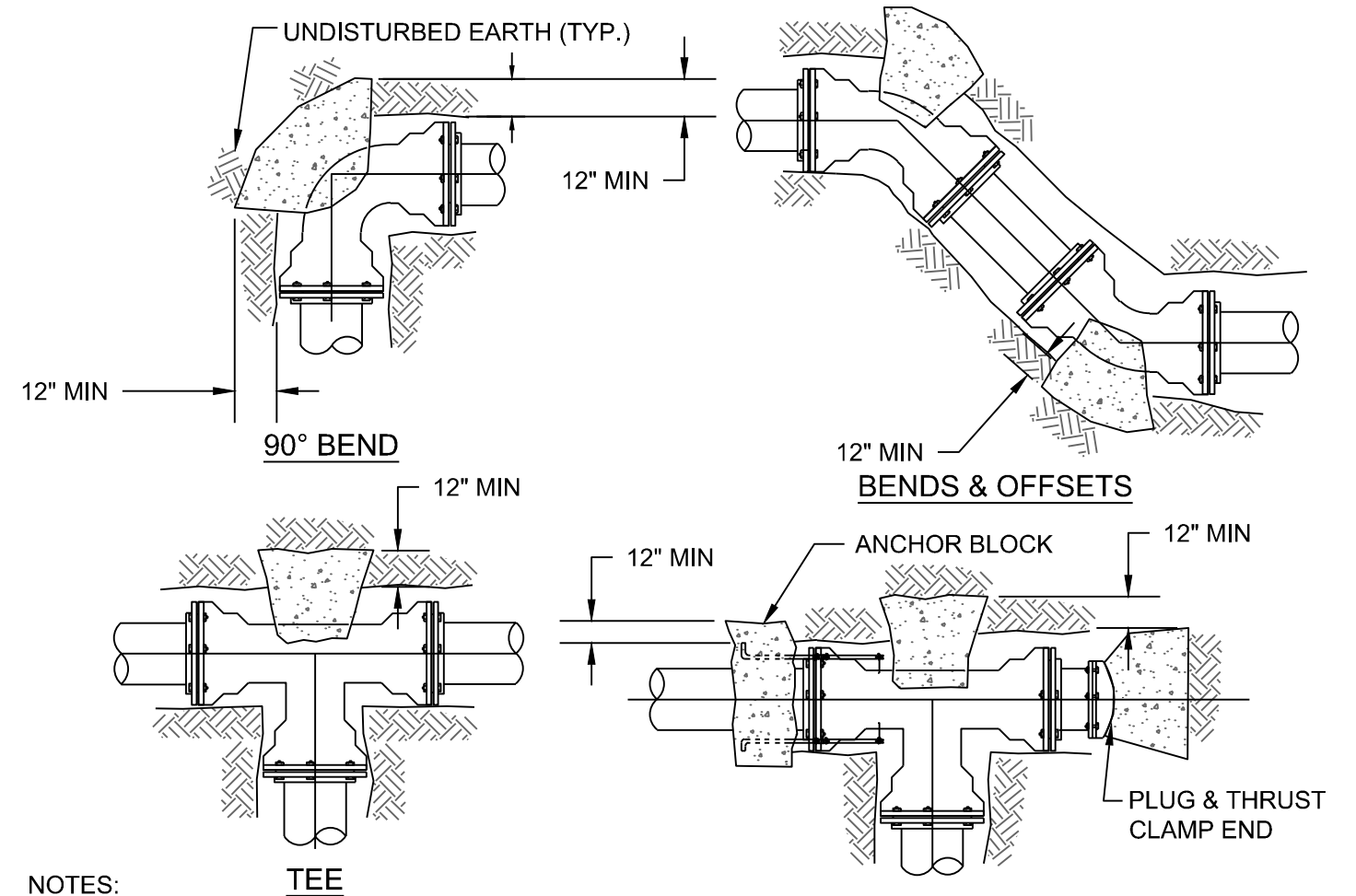
WIDTH IS EQUAL TO TRENCH WIDTH
3' FOR PIPE SIZES 4" THRU 8"
4' FOR PIPE SIZES 10" AND 12"



ANCHOR BLOCK DIMENSIONS

VALVE SIZE (IN INCH.)	A	B
4	2'	1.5'
6	3'	1.5'
8	3'	1.5'
10	3'	2'
12	3.5'	2'

- NOTES:**
- CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH.
 - WRAP EXPOSED PORTION OF ALL REBAR WITH SCOTCHWRAP #51 (20 MIL). WRAP WITH 1/2 OVERLAP. EXTEND WRAP 2" (MAX.) INTO CONCRETE.
 - CONCRETE SHALL BE CONTAINED AWAY FROM PIPE JOINTED TO ALLOW CLEARANCE FOR ACCESS TO JOINTS AND BOLTS.
 - FOR REQUIRED THRUST BLOCK BEARING AREA, SEE CHART BELOW.
 - FOR VERTICAL BENDS, SEE DETAIL.
 - FOR ANCHOR BLOCK, SEE DETAIL.
 - NUTS, BOLTS, FLANGES SHALL BE CLEAR OF CONCRETE.
 - FOR DUCTILE IRON PIPE USE FLANGED BY FLANGED JOINTS OR FLANGED FITTINGS WITH RESTRAINED FLANGED ADAPTERS ON VERTICAL BENDS.
 - RESTRAINED JOINTS REQUIRED IN ADDITION TO THRUST BLOCKS.



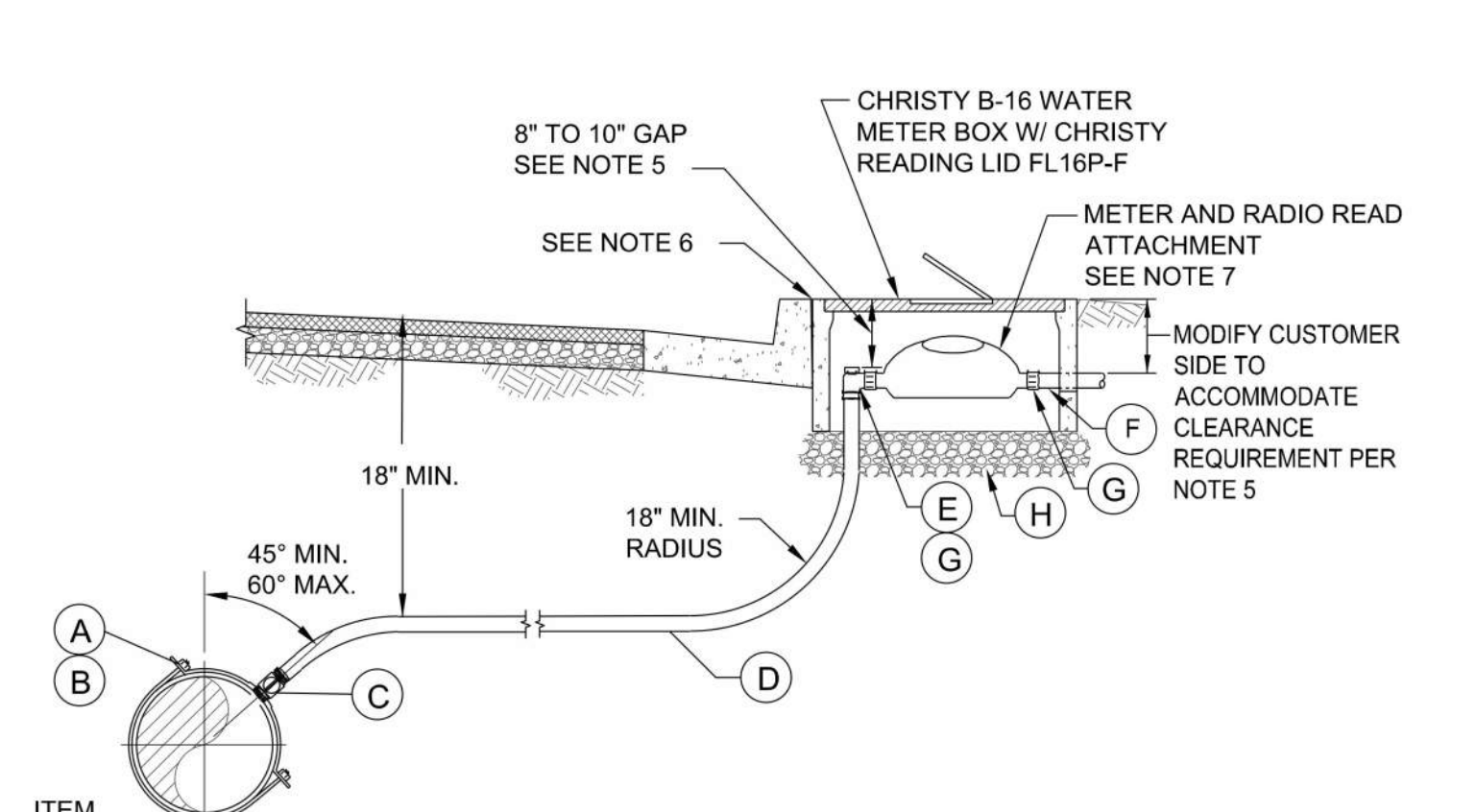
HORIZONTAL THRUST PER SQUARE FOOT THRUST BLOCK DIMENSIONS

O.D.	90° BENDS		45° BENDS		TEE/PLUG BENDS	
	1	2	1	2	1	2
4	3.5	2.5	2	1.5	2.5	1.5
6	8	3	4.5	3	6	4
8	14	9.5	8	5.5	10	7
10	22.5	15	12.5	8	16	10.5
12	32	21	18	12	22.5	15

SOIL BEARING
1=1000 psf
2=1500 psf

NOTE: ASSUME 1000 psf, UNLESS KNOWN.

- NOTES:**
- THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE USING 5-SACK MIX, TYPE II CLASS B WITH 3/4" AGGREGATE.
 - THRUST BLOCK SHALL BE POURED AGAINST UNDISTURBED EARTH.
 - CONCRETE SHALL BE CONTAINED AWAY FROM PIPE JOINTED TO ALLOW CLEARANCE FOR ACCESS TO JOINTS AND BOLTS.
 - FOR REQUIRED THRUST BLOCK BEARING AREA, SEE CHART BELOW.
 - FOR VERTICAL BENDS, SEE DETAIL.
 - FOR ANCHOR BLOCK, SEE DETAIL.
 - NUTS, BOLTS AND FLANGES SHALL BE CLEAR OF CONCRETE.
 - RESTRAINED JOINTS REQUIRED IN ADDITION TO THRUST BLOCKS.



- ITEM NO. MATERIALS**
- (A) FOR DUCTILE IRON PIPE - USE 1" CC THREAD MUELLER SERVICE SADDLE - BR2B SERIES
 - (B) FOR PVC PIPE - USE 1" CC THREAD MUELLER SERVICE SADDLE - BR2S SERIES
 - (C) 1" CORPORATION STOP. MUELLER H-15008
 - (D) 1" COPPER TUBING, TYPE K, CONFORMING WITH ANSI H23.
 - (E) 1" ANGLE METER STOP. MUELLER H-14258.
 - (F) METER COUPLINGS. MUELLER H-10871 (SPUD).
 - (G) METER ADAPTORS FOR METER SIZES LESS THAN 1"-FORD-A24-NL.
 - (H) 4"-6" OF 3/8" (10mm) ROCK UNDER ASSEMBLY

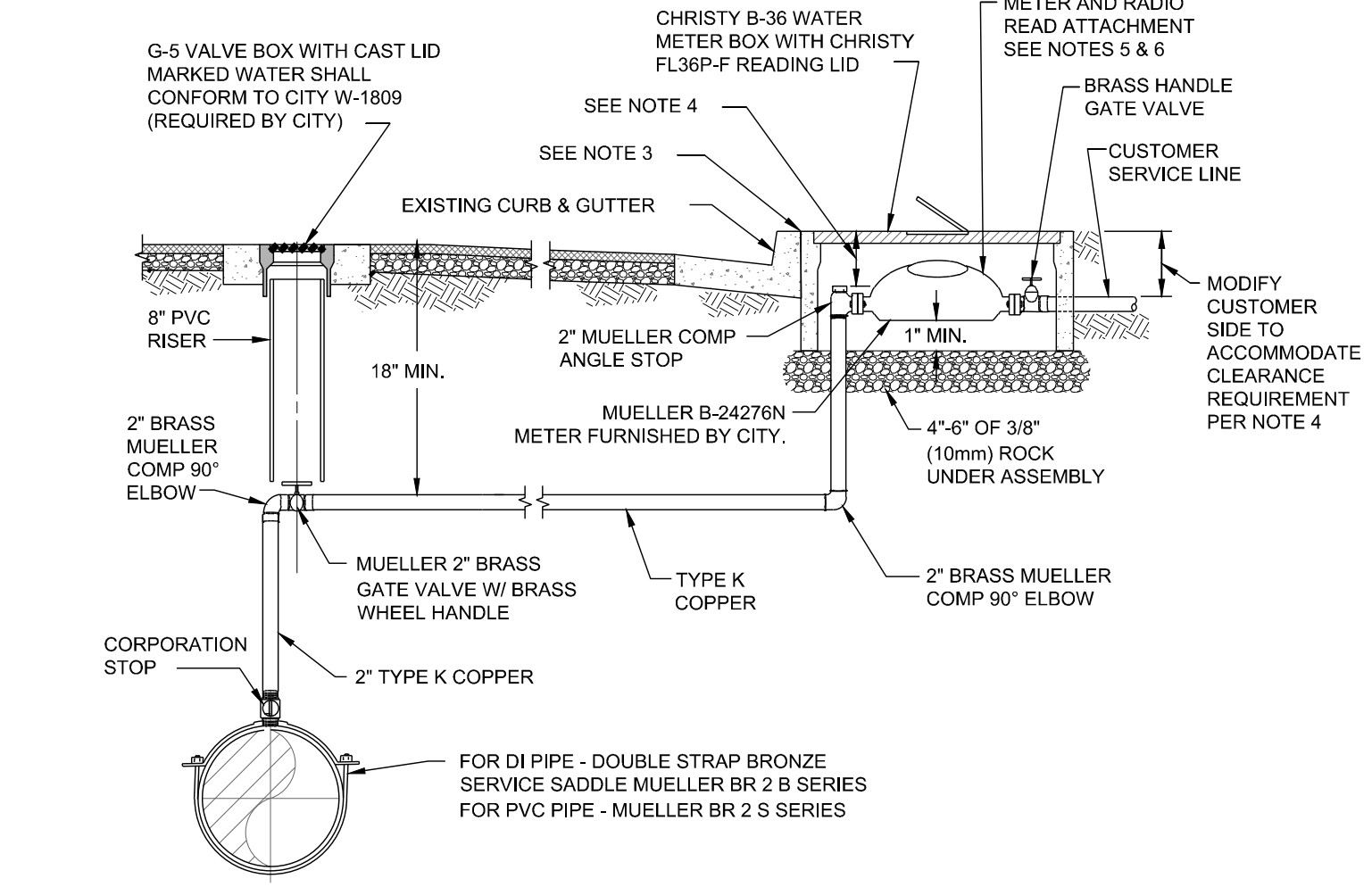
- NOTES:**
- ALL FITTINGS, TUBING, VALVES, ETC. ARE ONE INCH UNLESS OTHERWISE SHOWN.
 - OPEN TRENCHING IS NOT PERMITTED ON PRIVATE PROPERTY BY CITY CONTRACTORS, UNLESS SPECIFICALLY PERMITTED.
 - EXPOSED PIPING SHALL BE COPPER OR BRASS ONLY.
 - TWO METER ADAPTORS WILL BE REQUIRED ON 3/4" METERS TO PROVIDE FOR A 1" METER LAY LENGTH.
 - A MINIMUM GAP OF 8" TO A MAXIMUM GAP OF 10" MUST REMAIN BETWEEN THE TOP OF ANGLE STOP AND TOP OF METER BOX LID AT FINISH GRADE. MODIFY CUSTOMER SIDE TO ACCOMMODATE CLEARANCE REQUIREMENT.
 - FRONT EDGE OF METER BOX TO BE PLACED AGAINST REAR OF CURB UNLESS THERE IS SIDEWALK ADJACENT TO REAR OF CURB, THEN PLACE FRONT EDGE OF METER BOX AGAINST REAR OF SIDEWALK.
 - CONTRACTOR SHALL INSTALL CITY FURNISHED METER AND RADIO READ ATTACHMENT PER CITY STANDARD DETAIL.
 - INSTALL TRAFFIC RATED METER BOX & LID IN DRIVEWAYS AND WHERE DESIGNATED IN THE CONTRACT DOCUMENTS. USE CHRISTY B1324 BOX H/20 LOADING WITH COVER MARKED "WATER" AND PROVISION FOR RADIO READ ATTACHMENT.
 - INSTALL CUSTOMER SIDE WATER SERVICE TO CONNECT TO EXISTING CUSTOMER SIDE WATER SERVICE. MATCH EXISTING DIAMETER.

4 TYPICAL 1" SERVICE CONNECTION MODIFIED CITY STANDARD DETAIL W-1779 NOT TO SCALE

1 THRUST BLOCK (ANCHOR BLOCKS) CITY STANDARD DETAIL W1810 NOT TO SCALE

2 THRUST BLOCK (VERTICAL BENDS) CITY STANDARD DETAIL W-1810 NOT TO SCALE

3 THRUST BLOCK (HORIZONTAL BENDS) CITY STANDARD DETAIL W-1810 NOT TO SCALE



- NOTE:**
- NO TRENCHING IS ALLOWED ON PRIVATE PROPERTY BY CITY CONTRACTORS, UNLESS SPECIFICALLY PERMITTED.
 - EXPOSED PIPING SHALL BE COPPER OR BRASS ONLY.
 - FRONT EDGE OF METER BOX TO BE PLACED AGAINST REAR OF CURB UNLESS THERE IS SIDEWALK ADJACENT TO REAR OF CURB, THEN PLACE FRONT EDGE OF METER BOX AGAINST REAR OF SIDEWALK.
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5 TYPICAL 2" SERVICE CONNECTION MODIFIED CITY STANDARD DETAIL W-1779 NOT TO SCALE

H:\140-Burlingame\140-115 Burlingame Terrace Water Main Replacement\Engineering\Construction Drawings\140-D4 WATER DETAILS 1-4.dwg 3-26-24 03:15:13 PM pbuisinger

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WILSEY HAM
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CITY OF BURLINGAME
SAN MATEO COUNTY CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WATER DETAILS 1
WH PROJ. NO. 140-115 CP #84893

APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24
R.C.E. NO. 61024 EXPIRES 12/31/24

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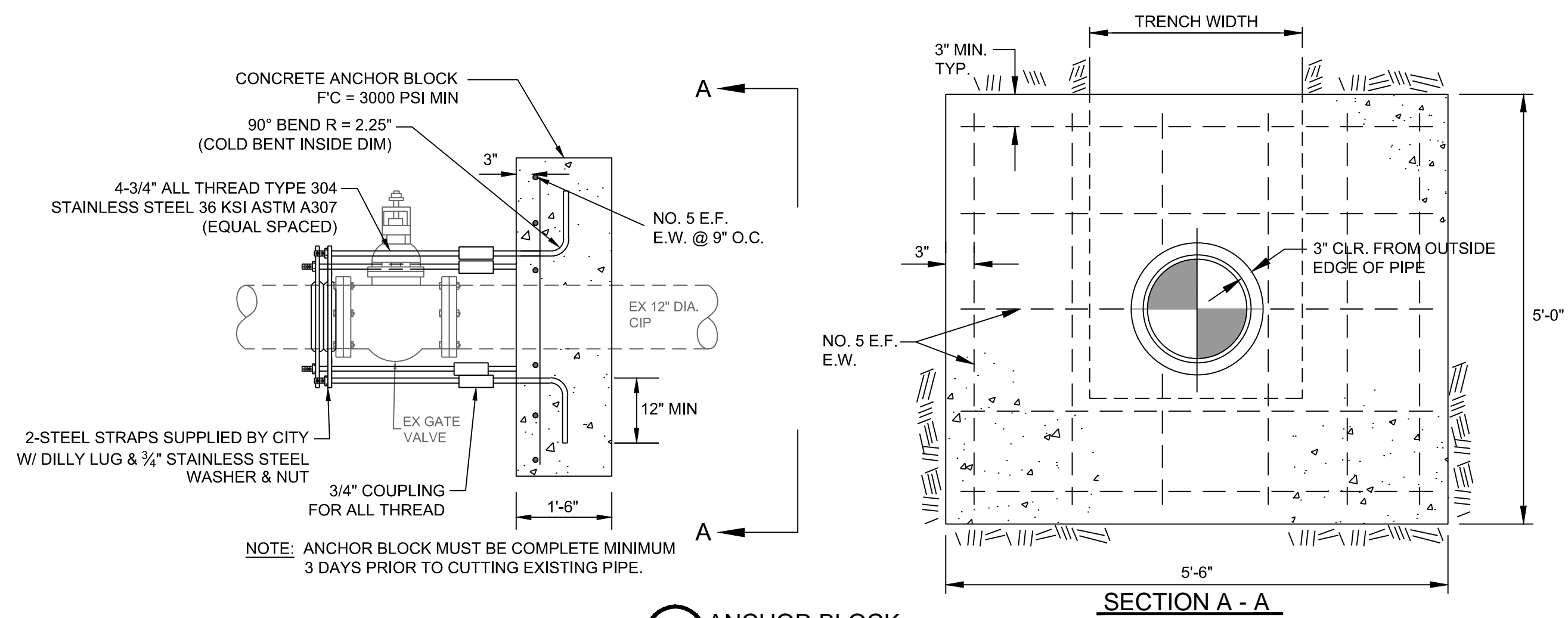
ART MORIMOTO ASSISTANT PUBLIC WORKS DIRECTOR DATE EXPIRES 03/31/26
R.C.E. NO. 42634

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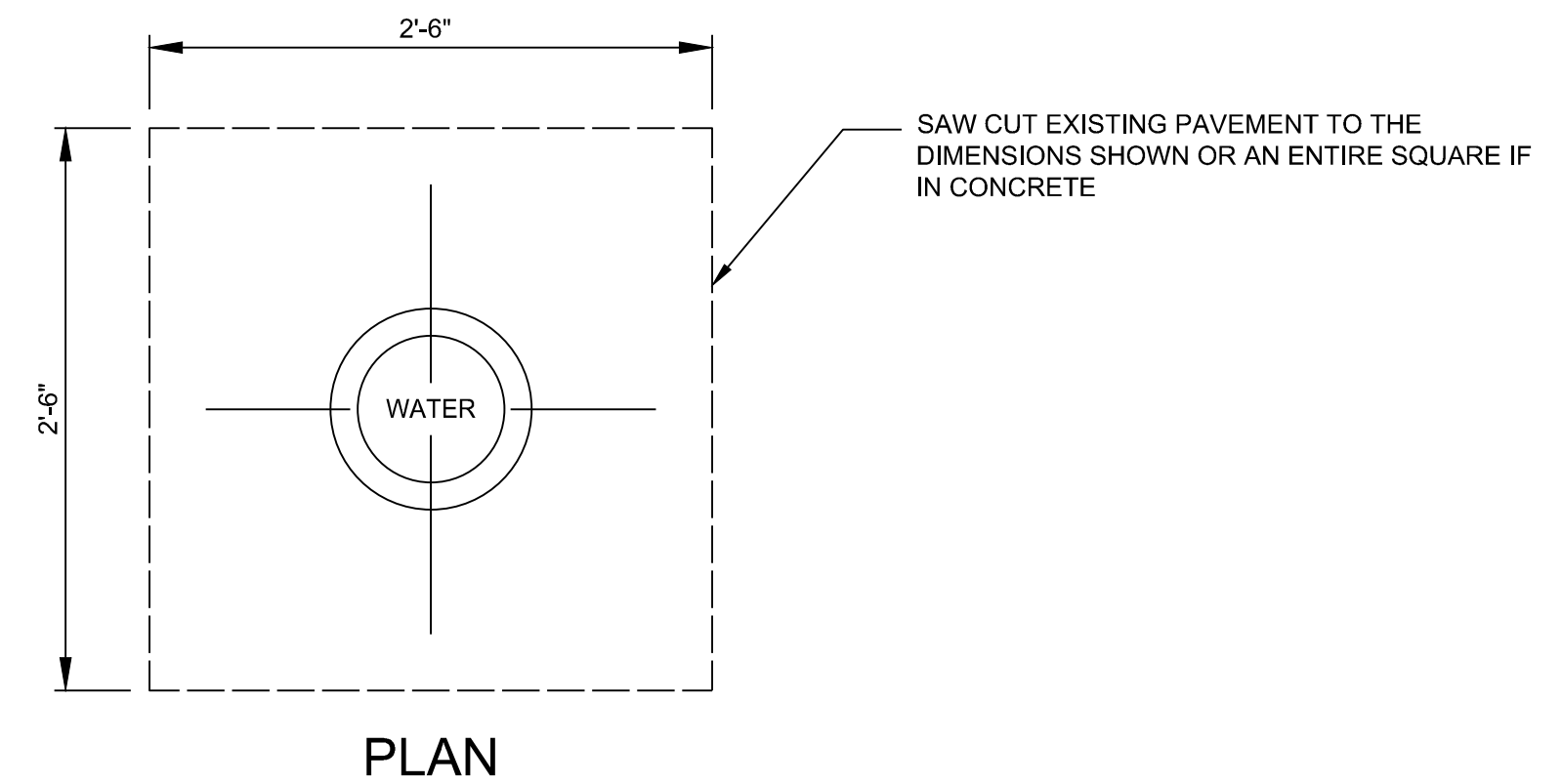
REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

SHEET **D1** OF **22** SHEETS

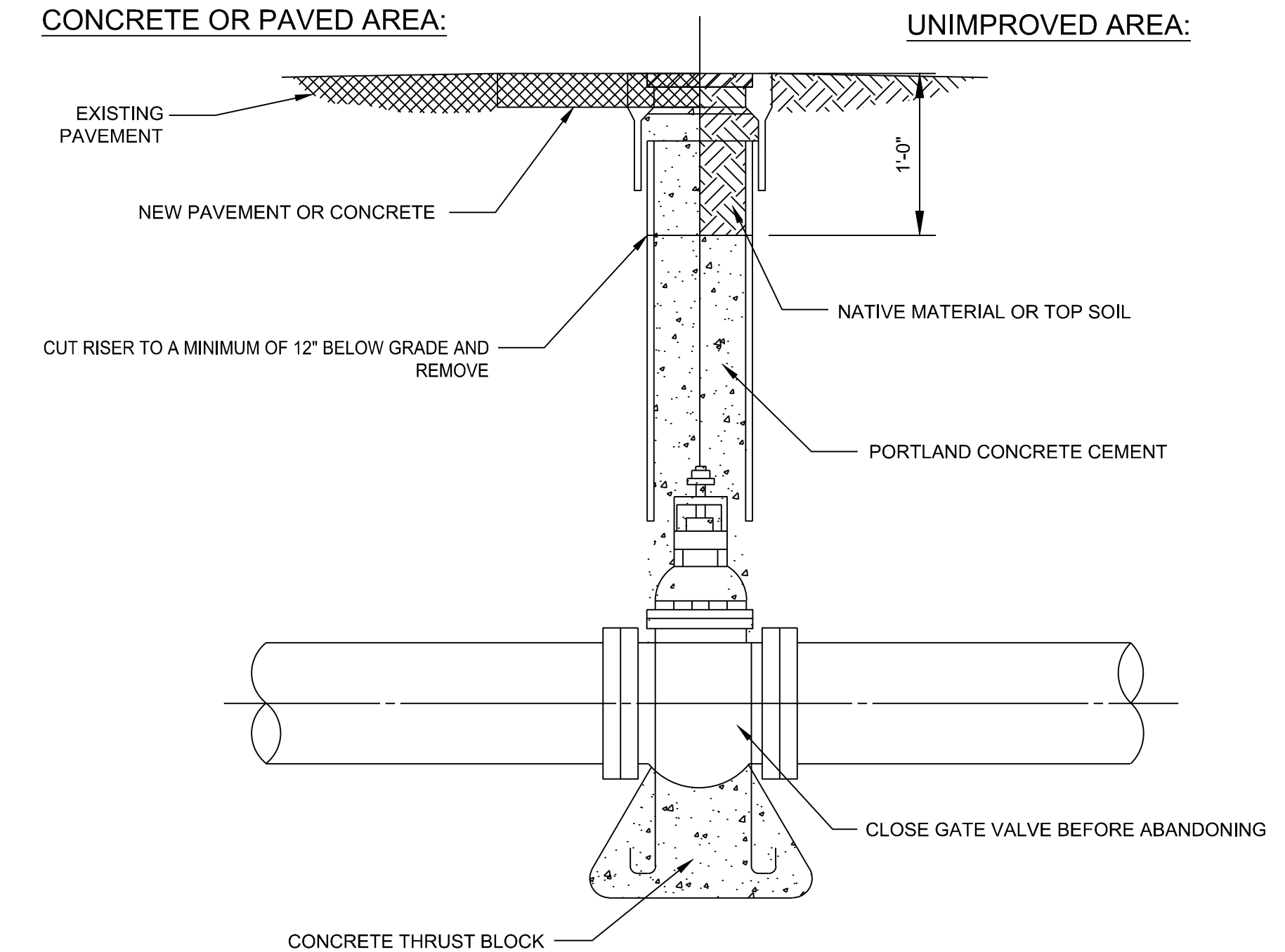
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6 ANCHOR BLOCK
NOT TO SCALE

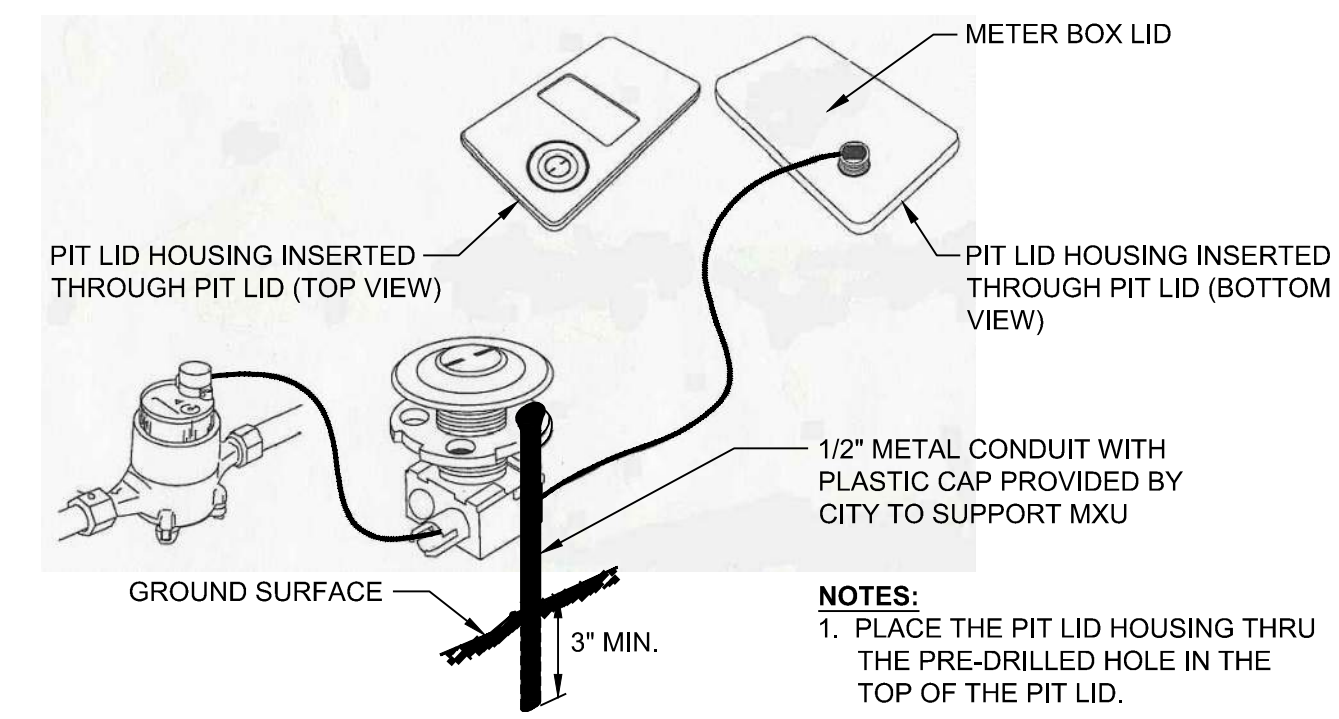


PLAN

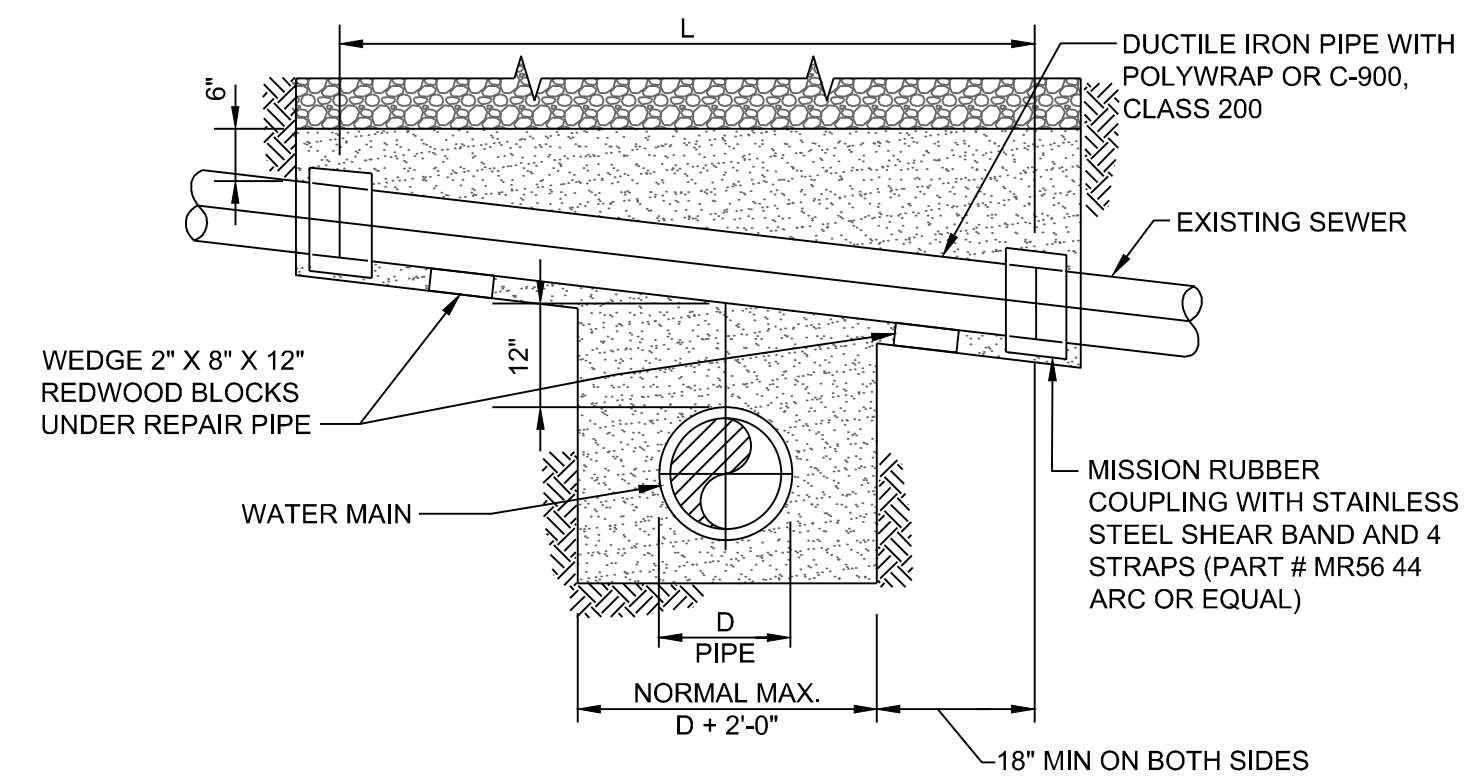


- NOTES:**
1. REMOVE VALVE BOX AND LID.
 2. FILL RISER WITH PORTLAND CEMENT CONCRETE TO 12" BELOW GRADE FOR UNIMPROVED AREAS, TO THE BOTTOM OF EXISTING PAVEMENT FOR PAVED AREAS, AND TO THE SURFACE FOR CONCRETE AREAS.
 3. REPLACE SURFACE REPAIR IN KIND FOR PAVED OR CONCRETE AREAS.

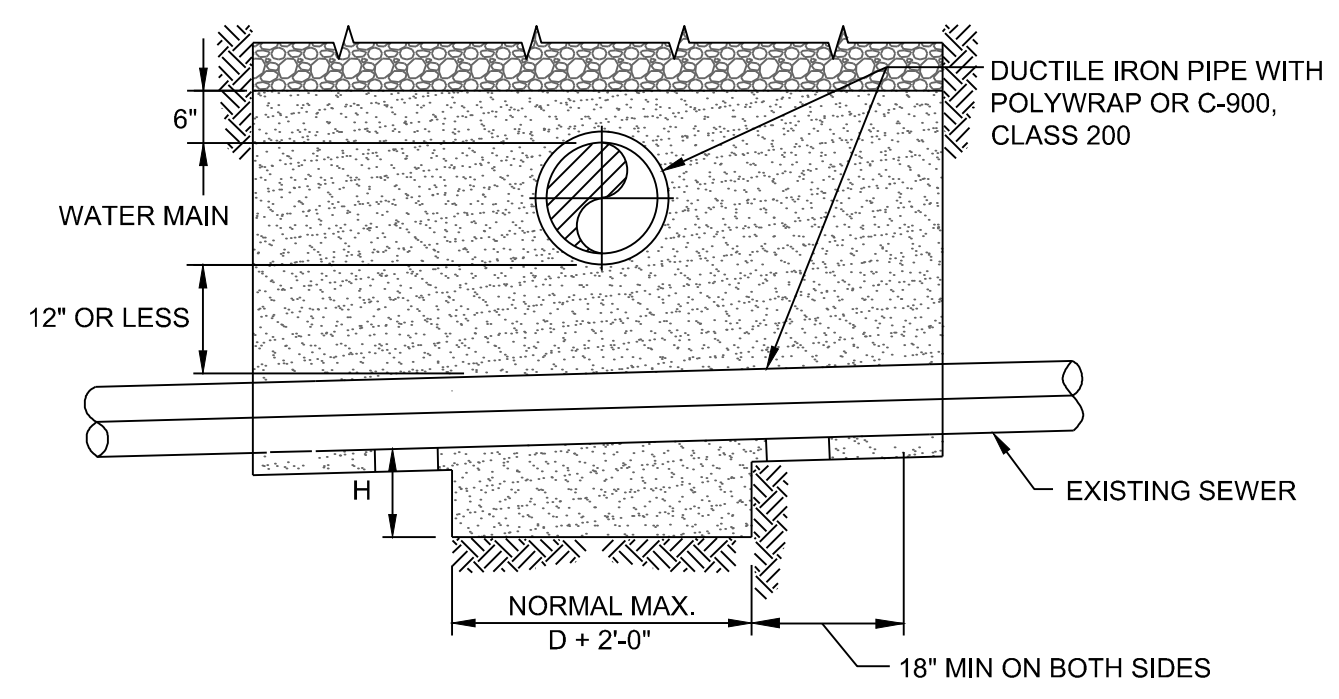
8 TYPICAL VALVE BOX ABANDONMENT DETAIL
NOT TO SCALE



7 RADIO READ INSTALLATION
NOT TO SCALE



CASE 1: EXISTING SEWER DAMAGED BY CONSTRUCTION OF WATER MAIN BENEATH SEWER. SEWER ONLY TO BE INSTALLED USING DIP OR C-900, CLASS 200.



CASE 2: CLEARANCE BETWEEN WATER MAIN CROSSING OVER EXISTING SEWER IS 1 FOOT OR LESS. BOTH WATER MAIN AND SEWER ARE TO BE INSTALLED USING DIP OR C-900, CLASS 200.

- NOTES:**
1. LENGTH OF PIPE FOR WATER MAIN SHALL BE AT LEAST 1 FULL LENGTH (20 FEET) APPROXIMATELY CENTERED AT CROSSING.
 2. POLYWRAP SHALL BE 8 MIL. THICKNESS IN ACCORDANCE WITH AWWA C105.
 3. ALL CROSSINGS TO BE INSPECTED BY CITY PRIOR TO BACKFILL.
 4. ALL BACKFILL TO CONFORM TO CITY'S TYPICAL TRENCH SECTION.

9 WATER AND SEWER CROSSING DETAIL
NOT TO SCALE

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CITY OF BURLINGAME
SAN MATEO COUNTY CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WATER DETAILS 2
WH PROJ. NO. 140-115 CP #84893

APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

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R.C.E. NO. 42634

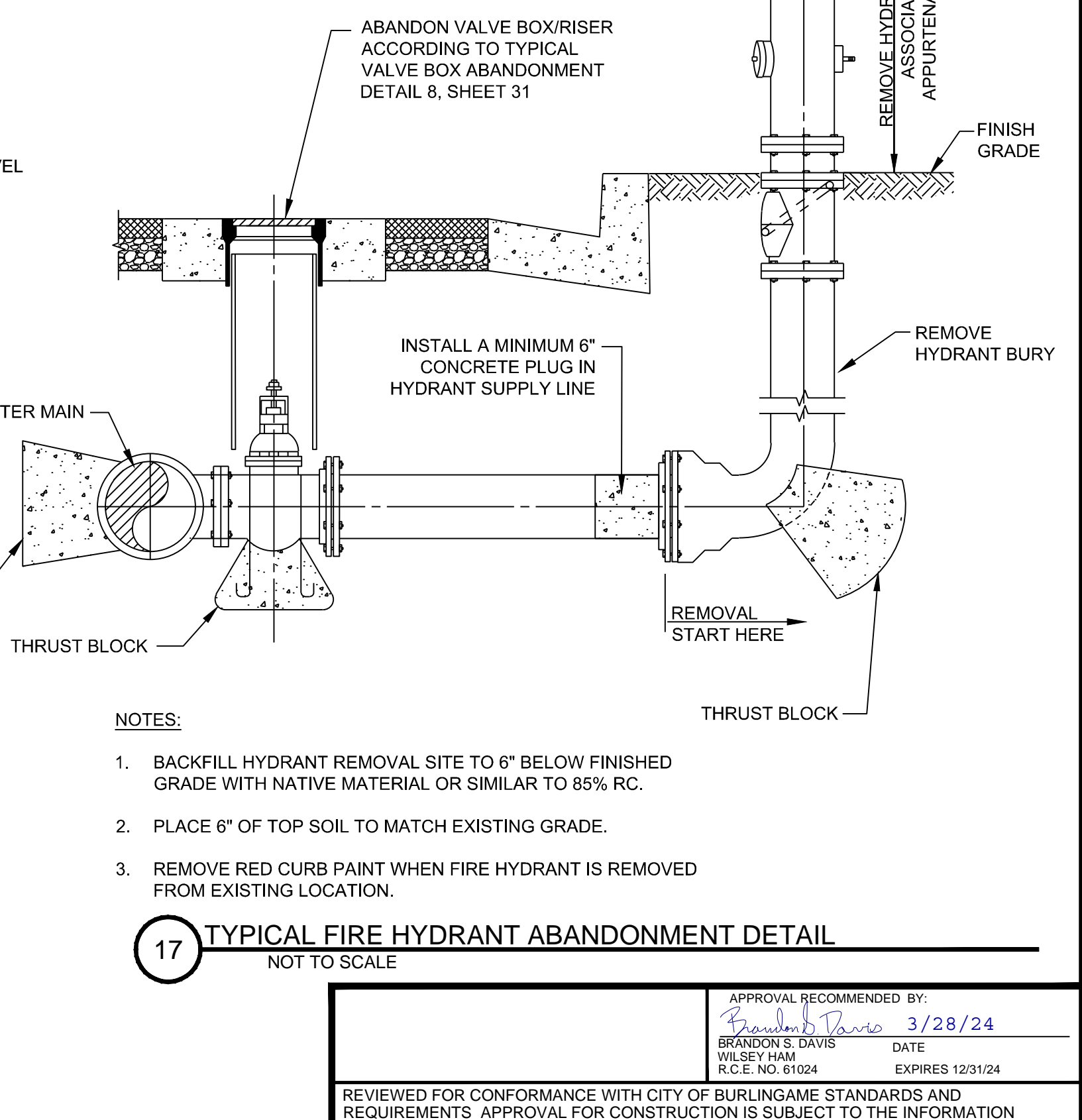
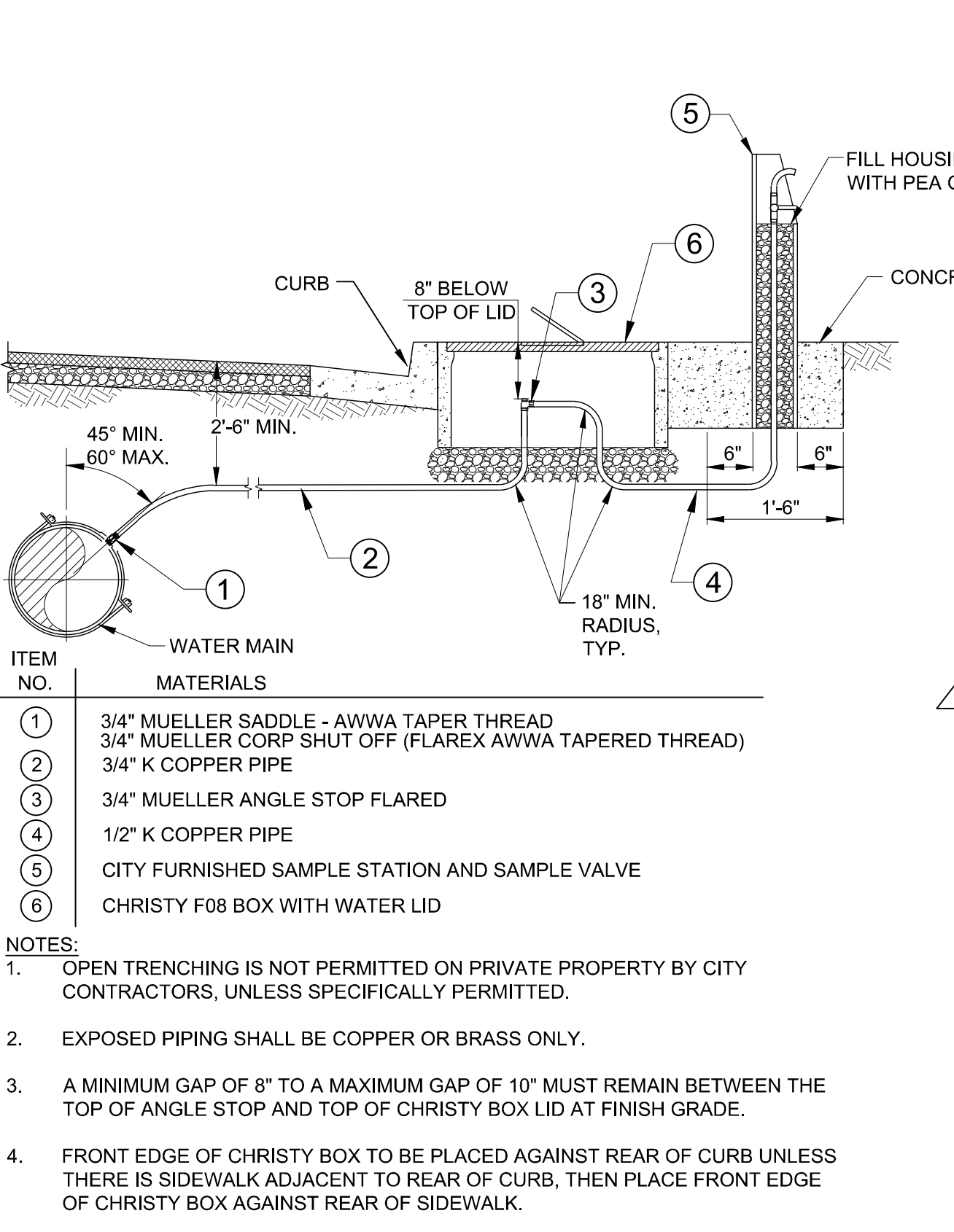
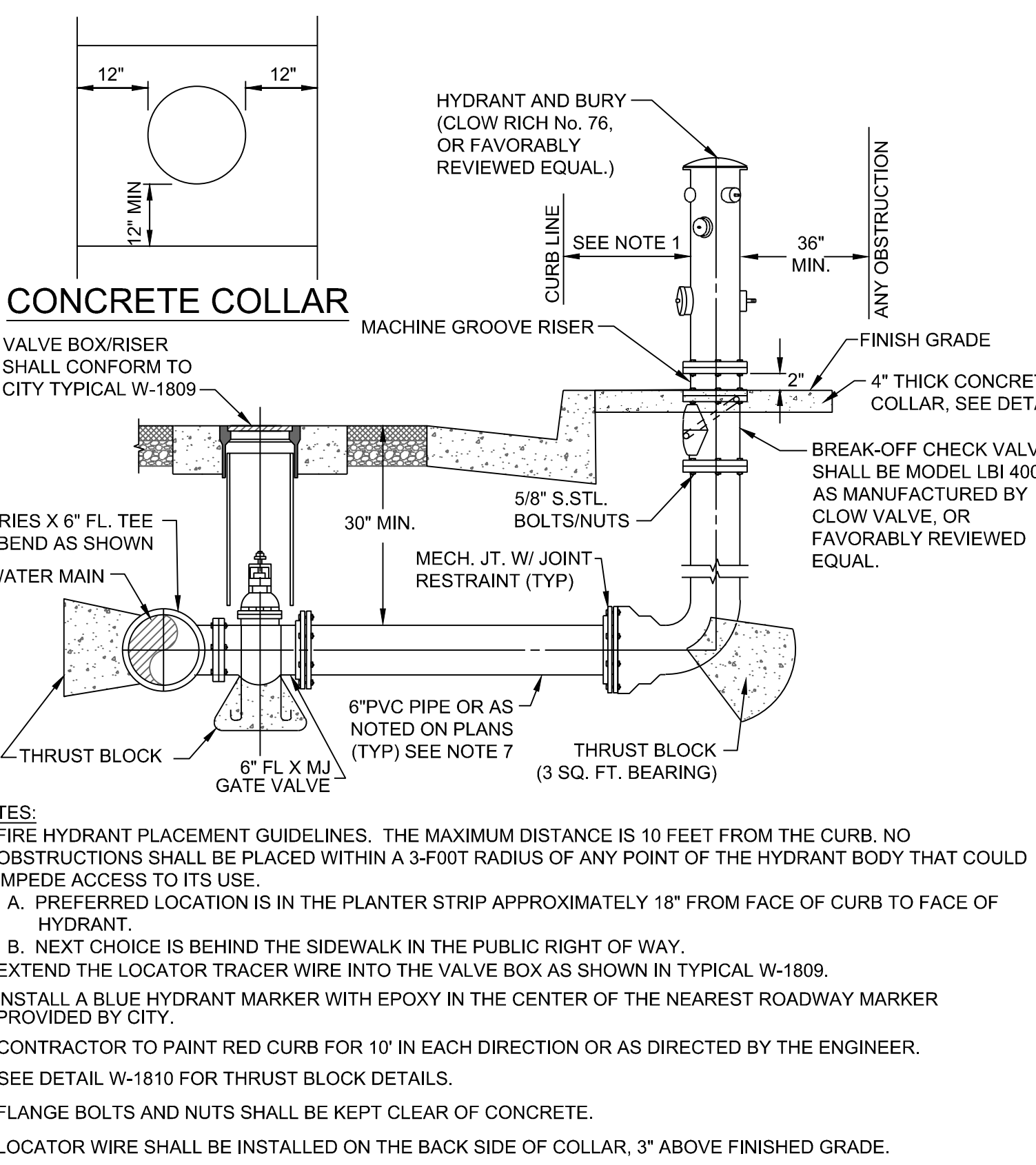
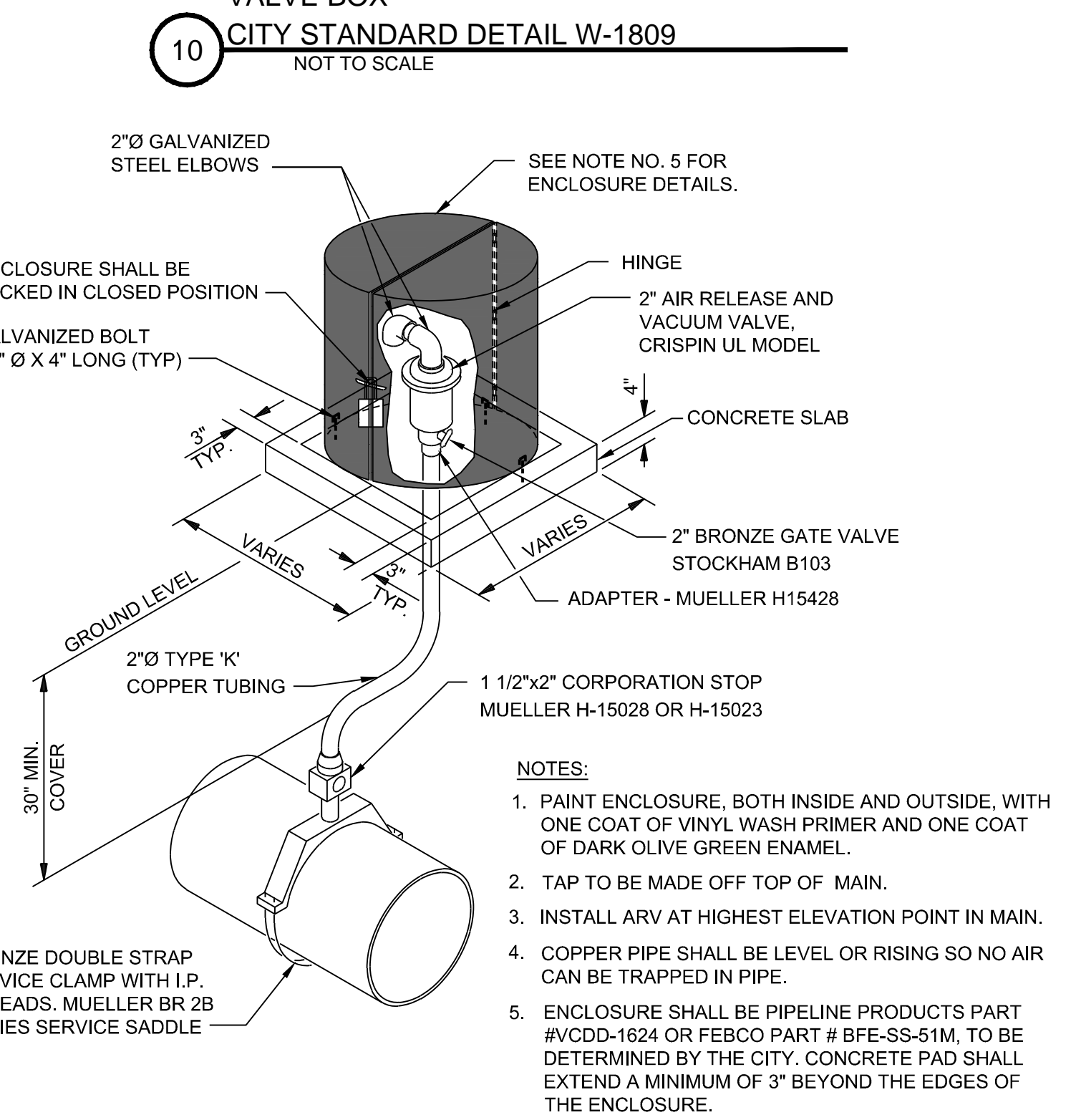
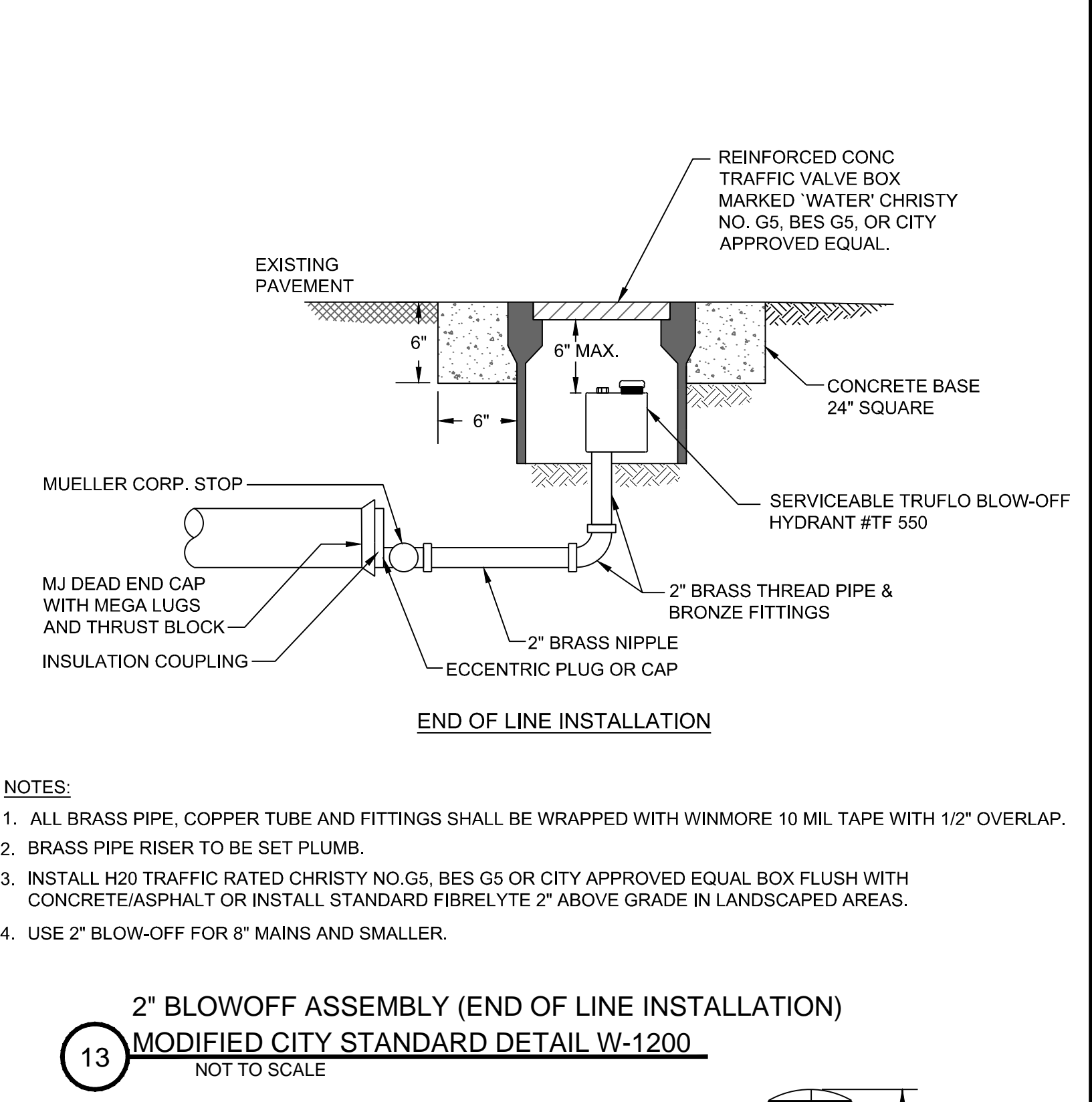
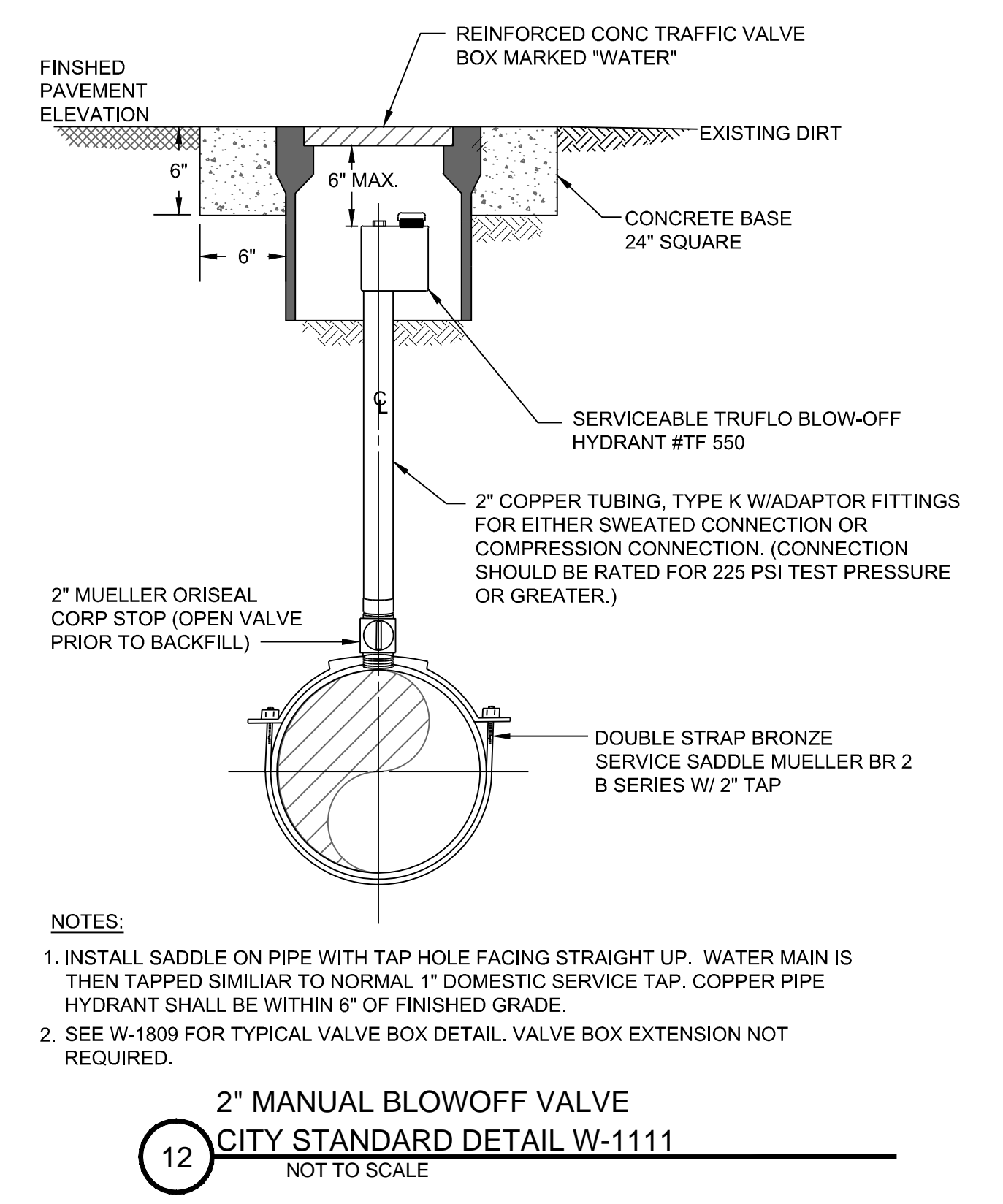
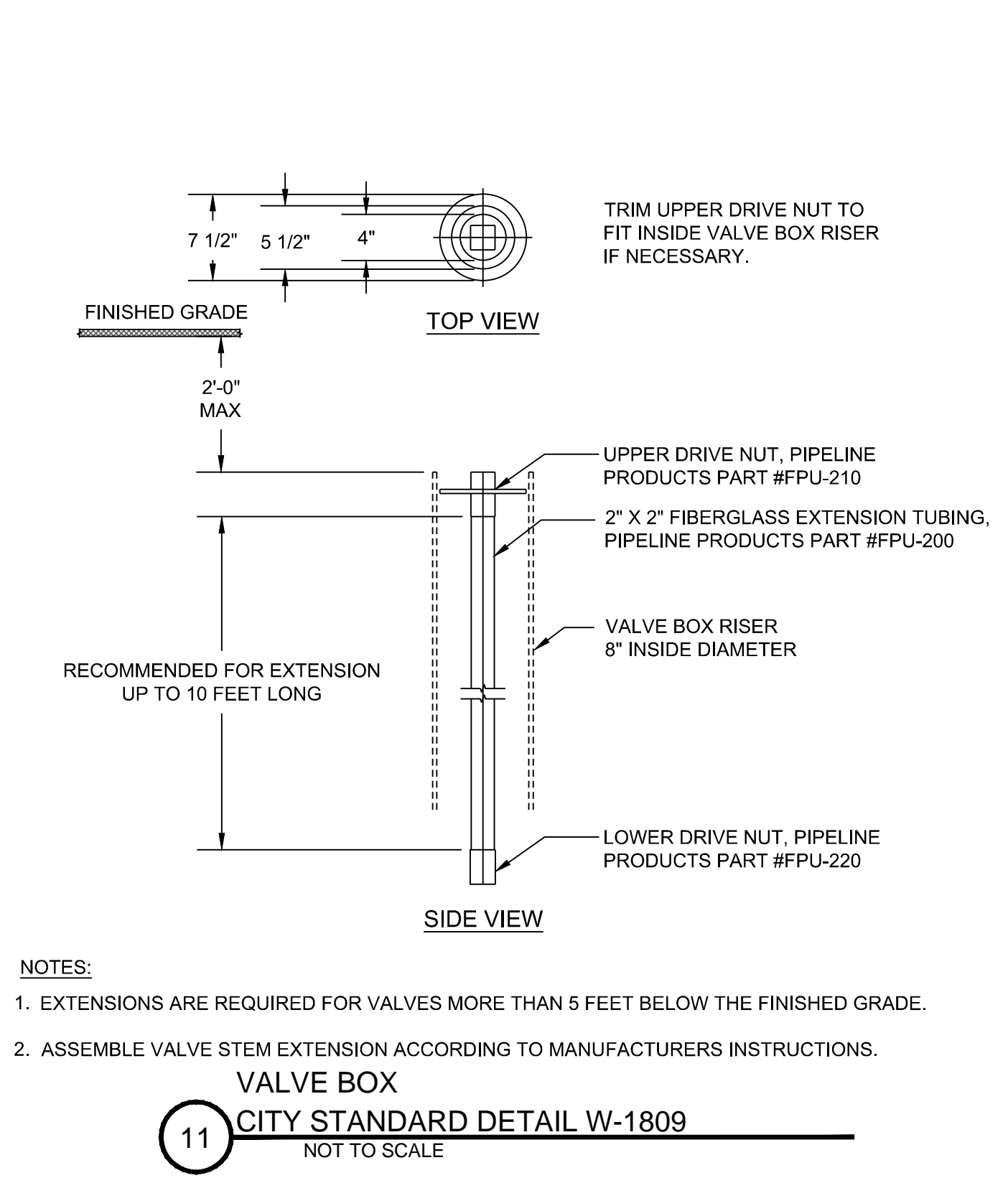
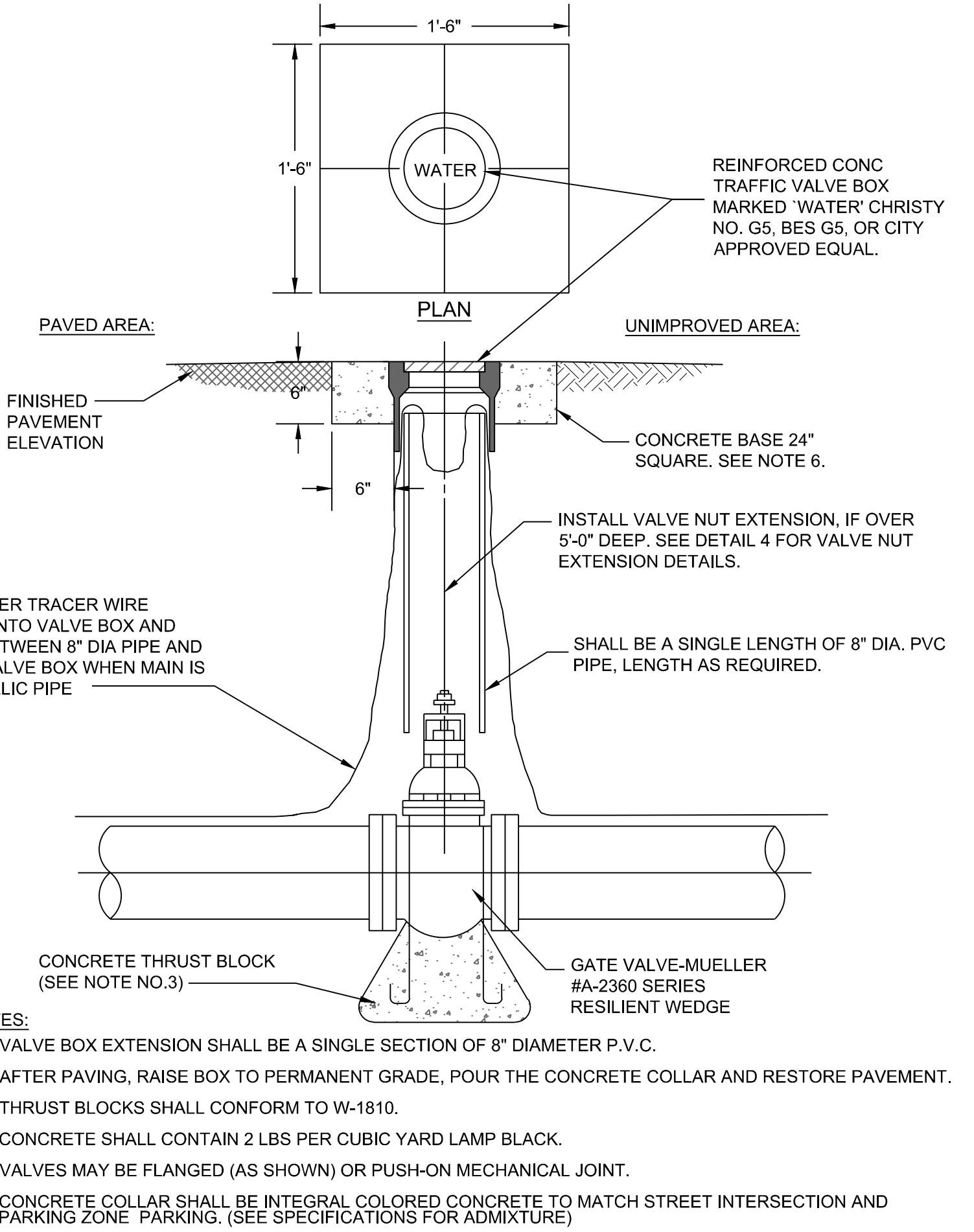
DESIGNED UNDER THE DIRECTION OF:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

DESIGN: CTL DATE: 03/28/24
DRAWN: DMM/PJB DATE: 03/28/24
CHECKED: BSD DATE: 03/28/24

REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

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	03/28/24	ISSUE FOR BID	BSD

Project Mgr.:	BSD	03/28/24
Project Eng.:	CTL	03/28/24
Designer:	DMM	03/28/24
Checked By:	BSD	03/28/24
Drawn By:	DMM/PJB	03/28/24

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CITY OF BURLINGAME
SAN MATEO COUNTY CALIFORNIA

WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WATER DETAILS 3

APPROVAL RECOMMENDED BY:
BRANDON S. DAVIS 3/28/24
WILSEY HAM R.C.E. NO. 61024 DATE EXPIRES 12/31/24

DESIGNED UNDER THE DIRECTION OF:
BRANDON S. DAVIS 3/28/24
WILSEY HAM R.C.E. NO. 61024 DATE EXPIRES 12/31/24

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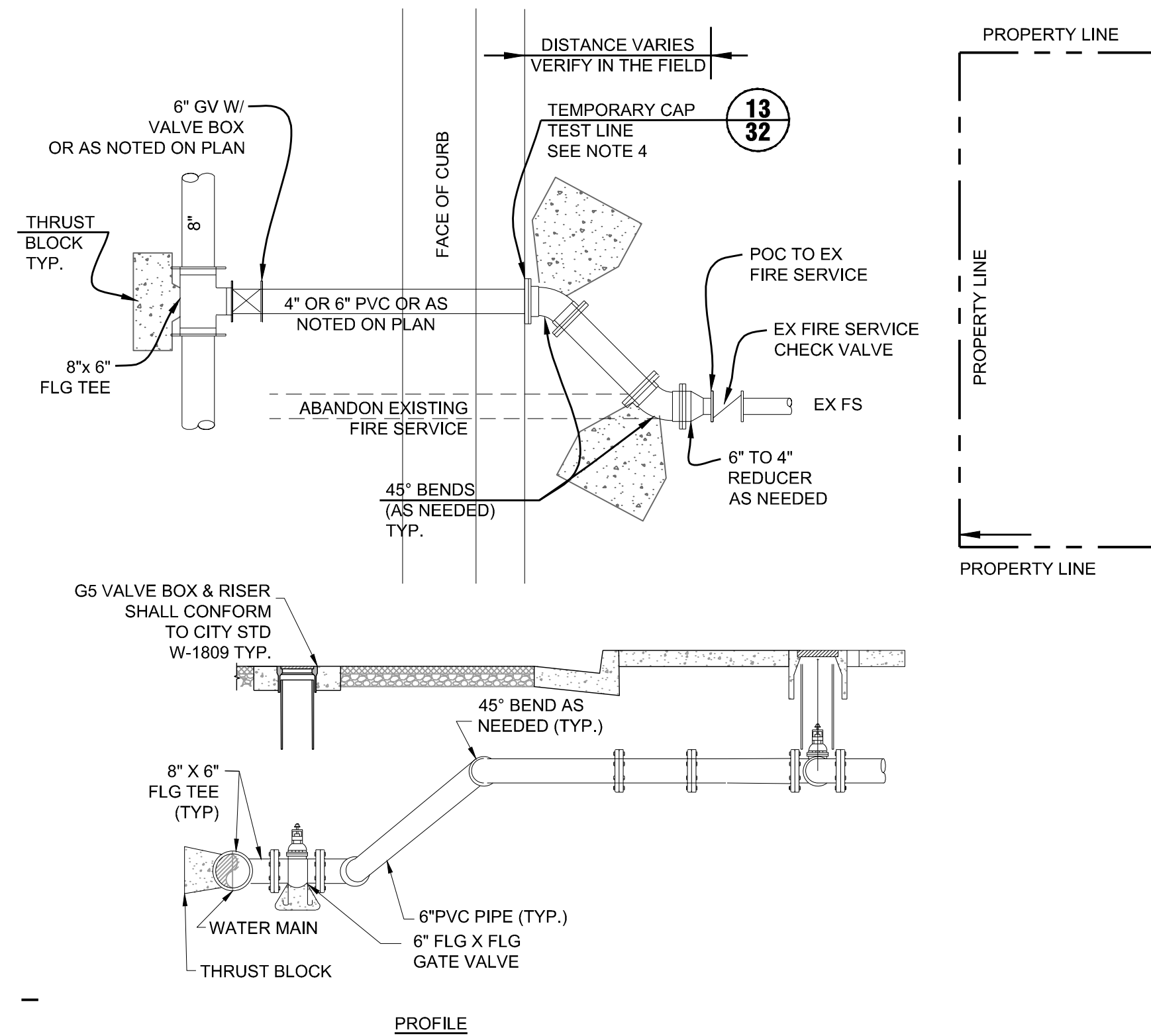
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BRANDON S. DAVIS 3/28/24
WILSEY HAM R.C.E. NO. 61024 DATE EXPIRES 12/31/24

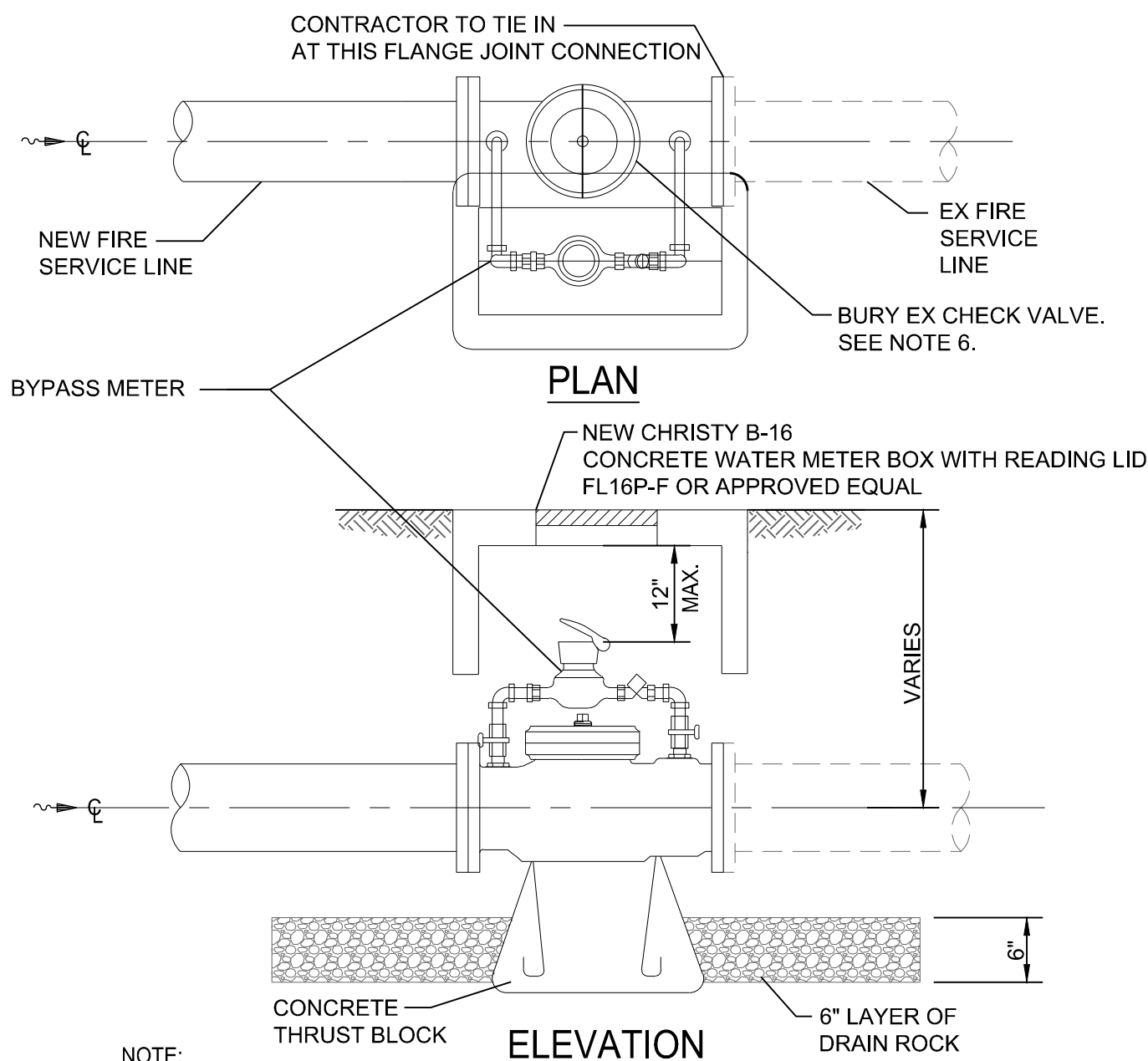
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CP #848993

SHEET **D3** OF **22** SHEETS

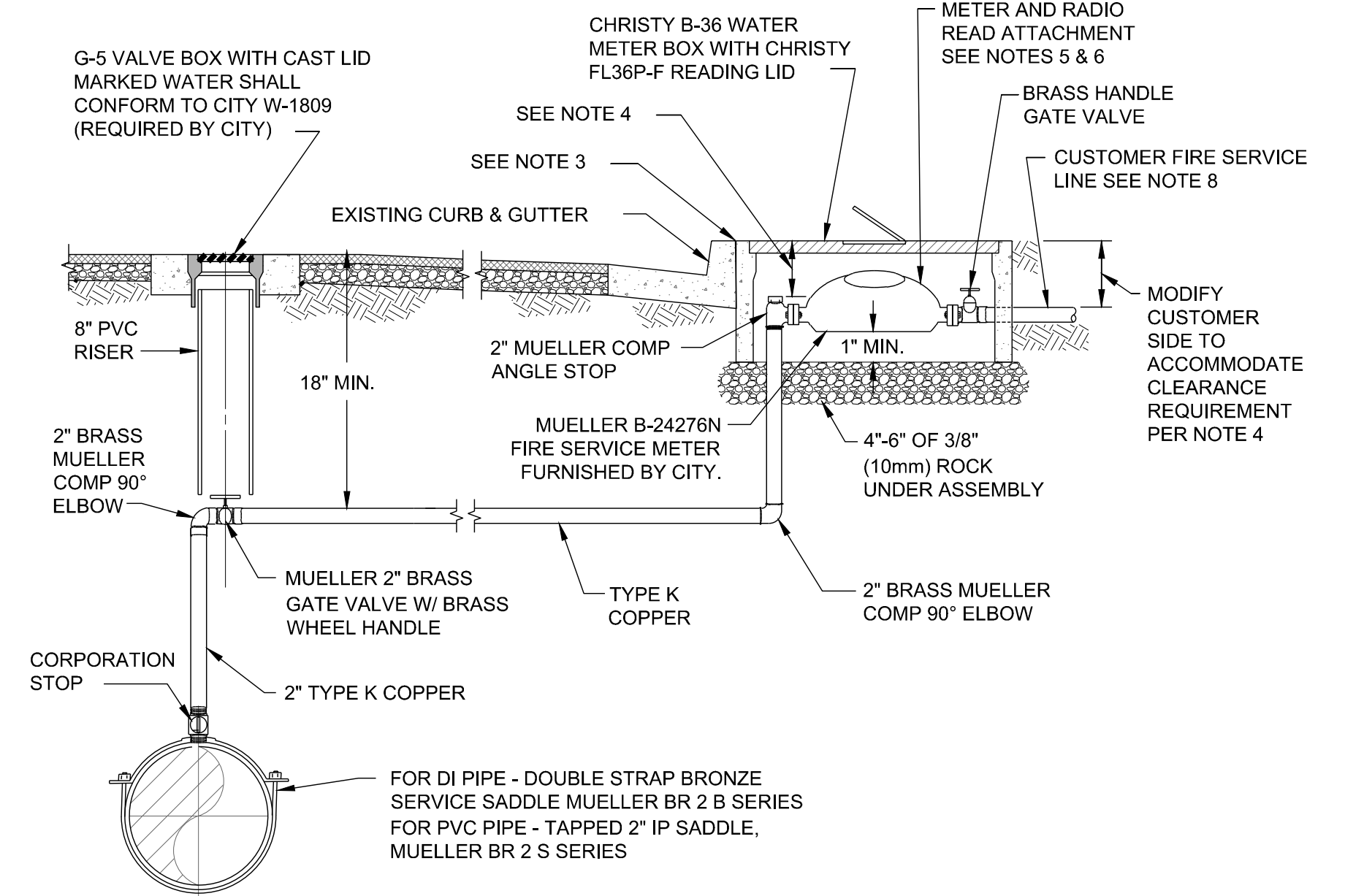


18 CONNECT TO EX FIRE SERVICE (TYPE I)
SINGLE SERVICE
NOT TO SCALE



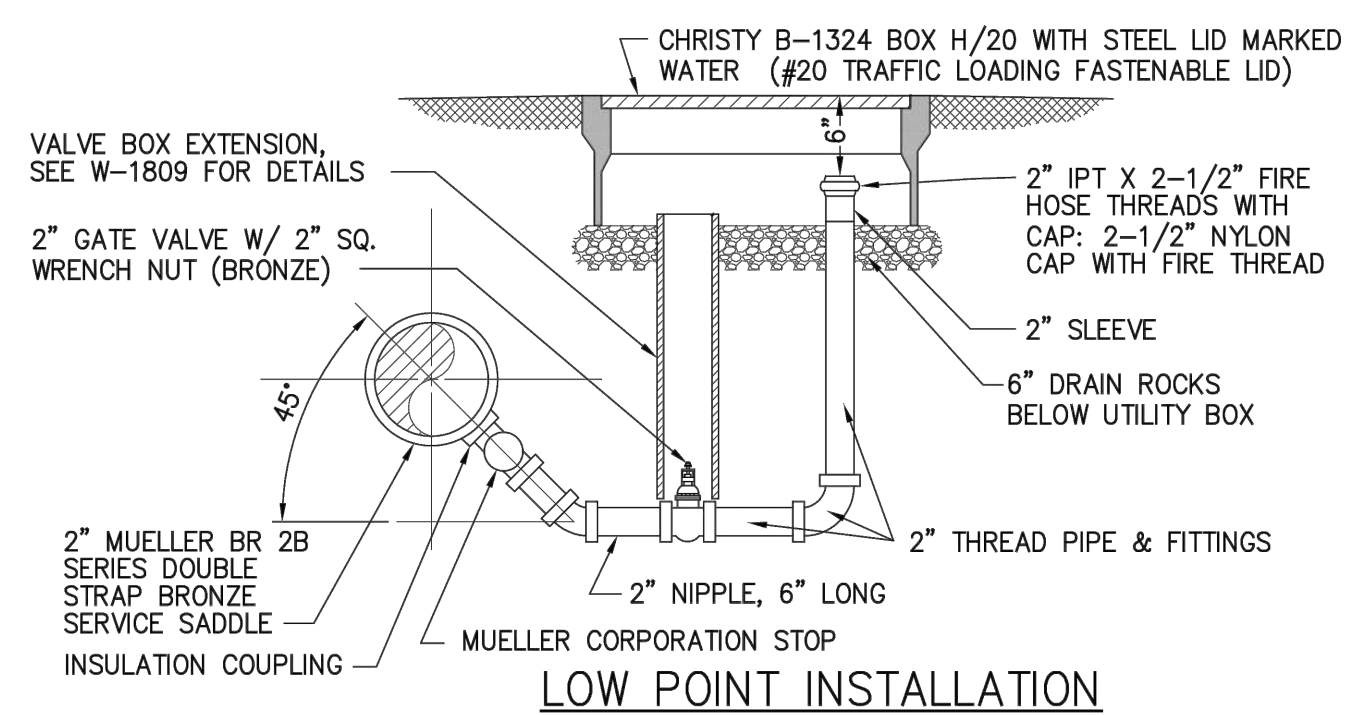
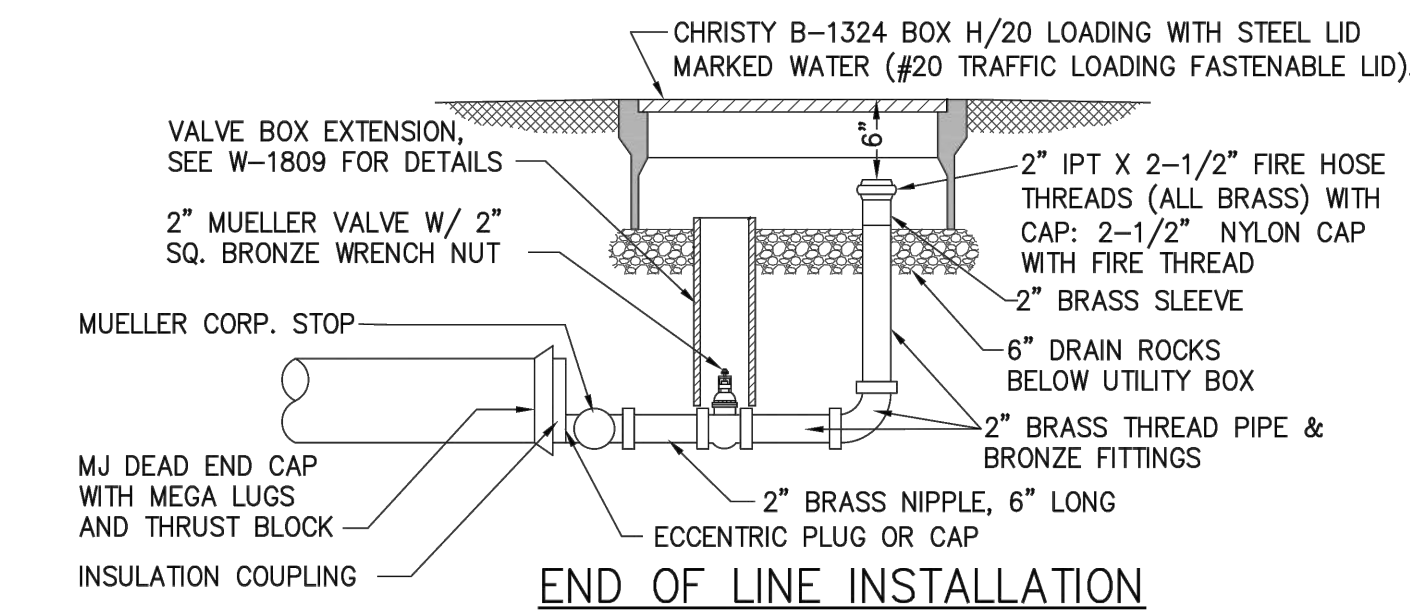
- NOTE:**
- CITY TO FURNISH WATER METER AND CONTRACTOR TO INSTALL WATER METER.
 - DETECTOR CHECK VALVE SHALL BE INSTALLED ON THE OWNER'S PROPERTY.
 - INSPECTION BY UTILITY CROSS CONNECTION INSPECTOR IS REQUIRED.
 - THRUST BLOCK SHALL CONFORM TO W-1810.
 - VARIANCE IS REQUIRED FOR THIS INSTALLATION.
 - CONTRACTOR SHALL INSTALL NEW CHECK VALVE SERIES 1000SS AMES STAINLESS STEEL BODY 300 SERIES OR APPROVED EQUAL WHEN SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

19 INSTALL NEW CHECK VALVE & WATER METER BOX
NOT TO SCALE



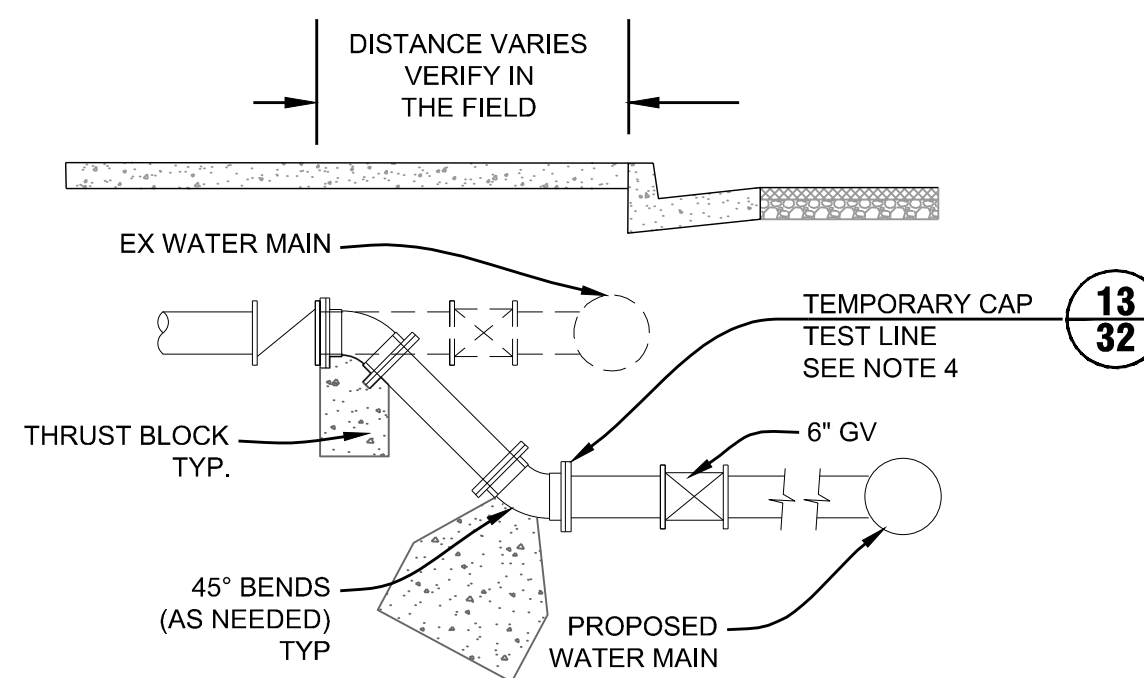
- NOTE:**
- NO TRENCHING IS ALLOWED ON PRIVATE PROPERTY BY CITY CONTRACTORS, UNLESS SPECIFICALLY PERMITTED.
 - EXPOSED PIPING SHALL BE COPPER OR BRASS ONLY.
 - FRONT EDGE OF METER BOX TO BE PLACED AGAINST REAR OF CURB UNLESS THERE IS SIDEWALK ADJACENT TO REAR OF CURB, THEN PLACE FRONT EDGE OF METER BOX AGAINST REAR OF SIDEWALK.
 - A MINIMUM GAP OF 8" TO A MAXIMUM GAP OF 10" MUST REMAIN BETWEEN THE TOP OF ANGLE STOP AND TOP OF METER BOX LID AT FINISH GRADE. MODIFY CUSTOMER SIDE TO ACCOMMODATE CLEARANCE REQUIREMENT.
 - CONTRACTOR SHALL INSTALL CITY FURNISHED FIRE SERVICE METER AND RADIO READ ATTACHMENT PER CITY STANDARD DETAIL.
 - INSTALL TRAFFIC RATED METER BOX & LID IN DRIVEWAYS AND WHERE DESIGNATED IN THE CONTRACT DOCUMENTS. USE CHRISTY B1324 BOX H/20 LOADING WITH COVER MARKED "WATER" AND PROVISION FOR RADIO READ ATTACHMENT.
 - INSTALL CUSTOMER SIDE FIRE SERVICE TO CONNECT TO EXISTING CUSTOMER SIDE FIRE SERVICE. MATCH EXISTING DIAMETER.
 - INSTALL CUSTOMER SIDE DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY. REMOVE DOUBLE CHECK VALVE HANDLES & STORE IN SPARE HEAD BOX.

20 TYPICAL 2" FIRE SERVICE CONNECTION
MODIFIED CITY STANDARD DETAIL W-1780
NOT TO SCALE



- NOTE:**
- ALL BRASS PIPE, COPPER TUBS AND FITTINGS SHALL BE WRAPPED WITH WINMORE 10 MIL TAPE WITH 1/2" OVERLAP.
 - BRASS PIPE RISER TO BE SET PLUMB.
 - INSTALL CHRISTY B-1324 BOX H/20 LOADING BOX FLUSH WITH CONCRETE/ASPHALT OR INSTALL STANDARD FIBRELYTE 2" ABOVE GRADE IN LANDSCAPED AREAS.
 - USE 2" BLOW-OFF FOR 8" MAINS AND SMALLER.

21 2" BLOW OFF ASSEMBLY
CITY STANDARD DETAIL W-1200
NOT TO SCALE



22 CONNECT FIRE SERVICE UNDER EX MAIN
NOT TO SCALE

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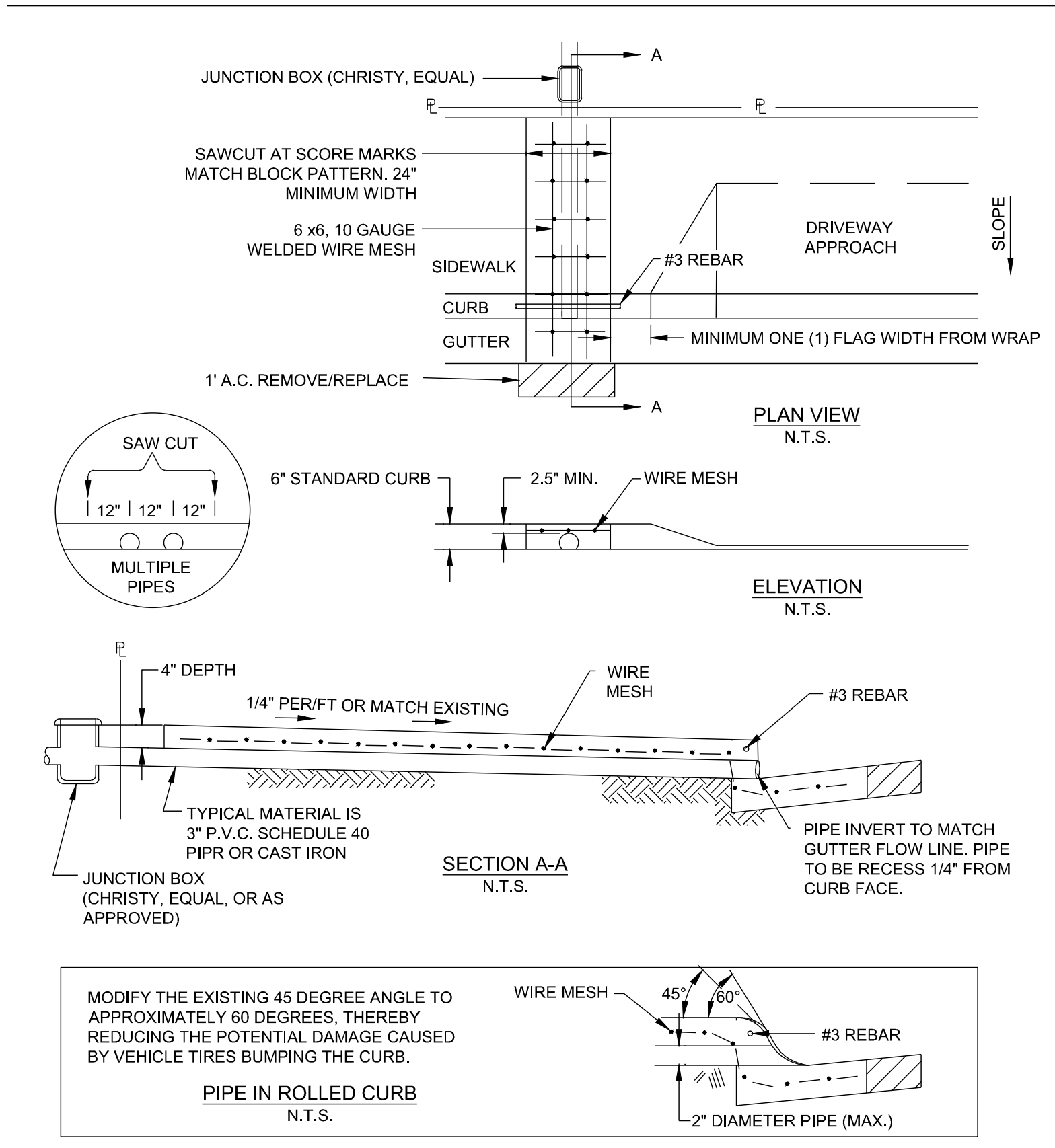
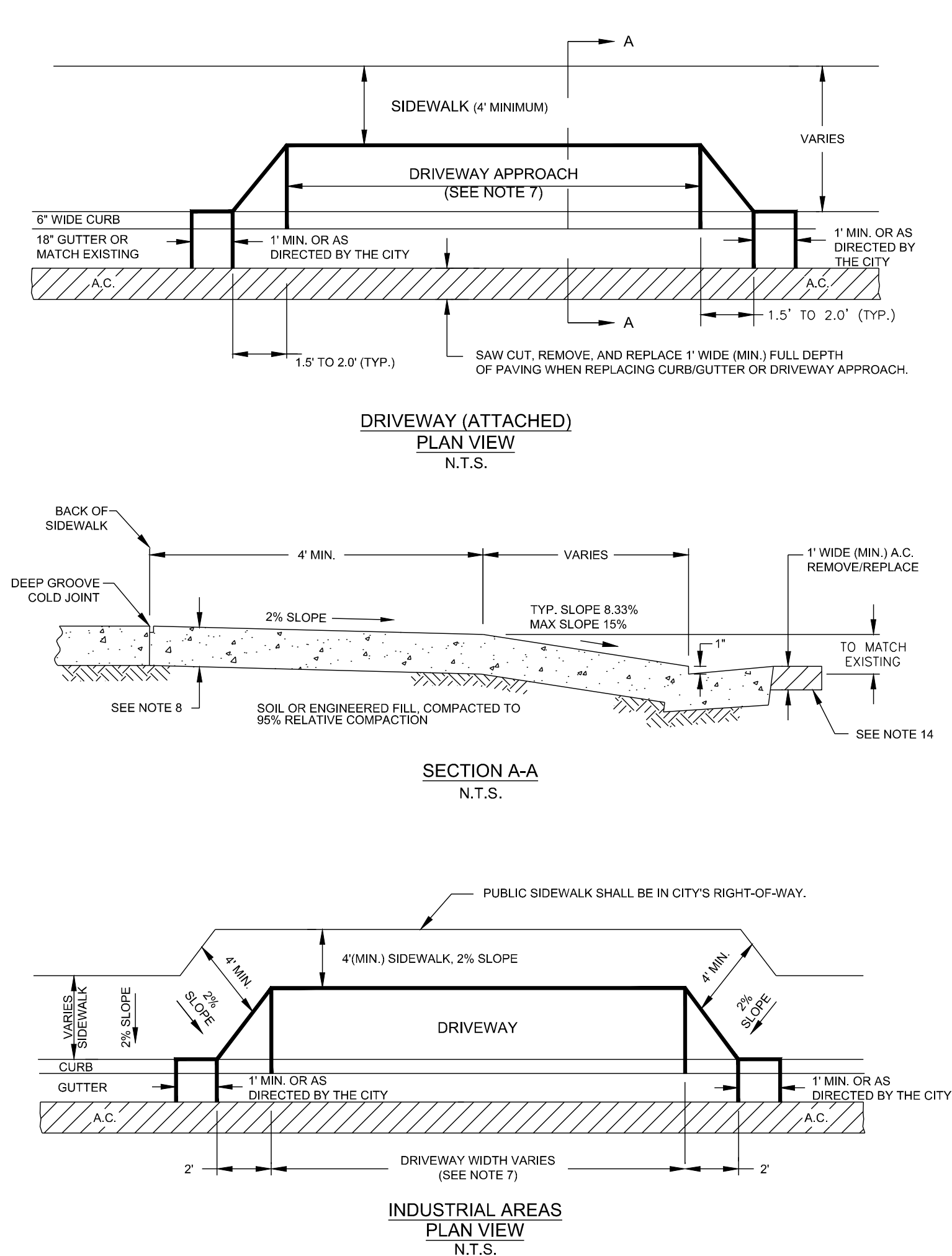
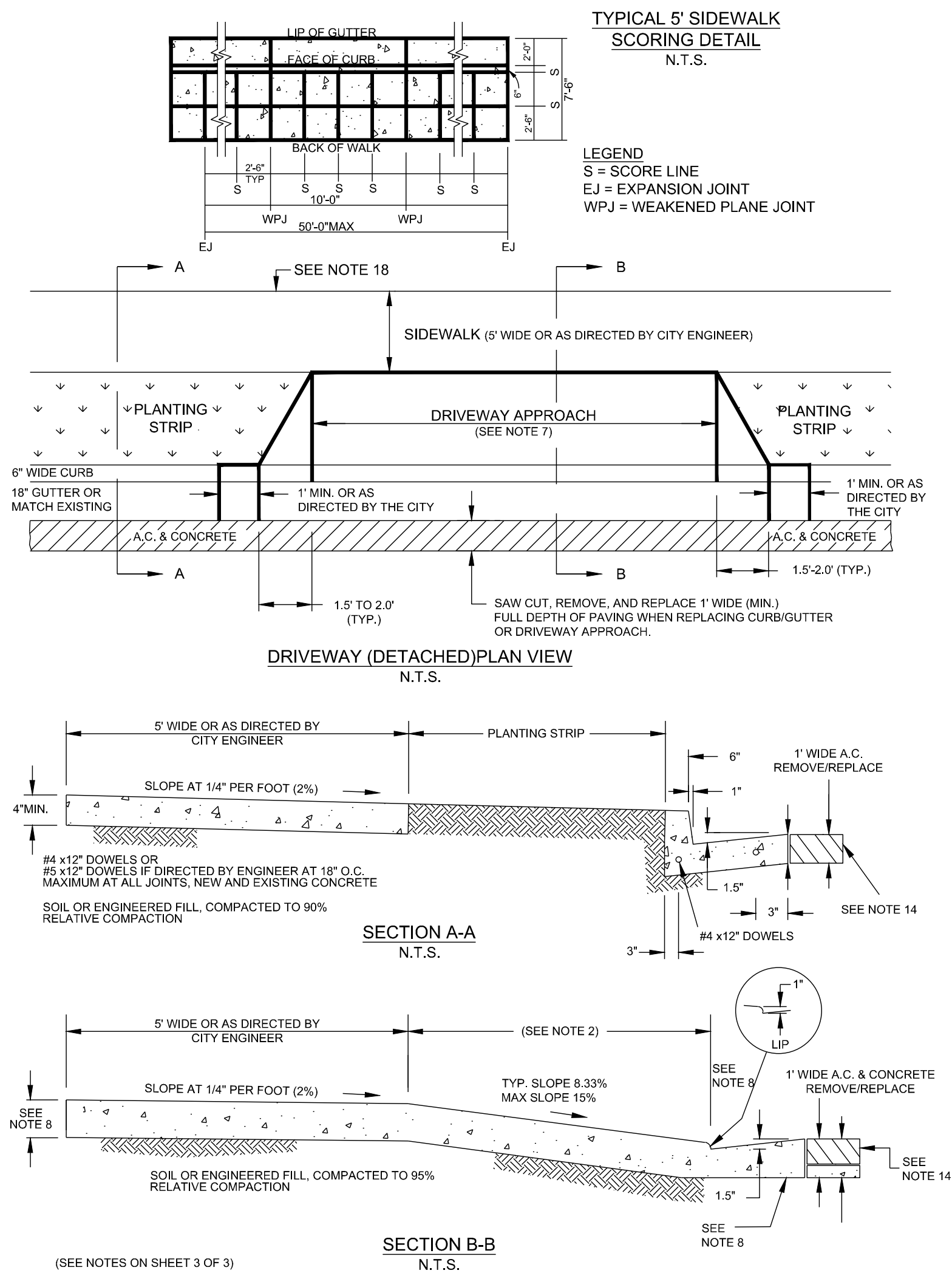
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CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
WATER DETAILS 4
CP #84893

APPROVAL RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
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NOTE:

- IF CURB FACE IS LESS THAN THE STANDARD 6" DEPTH AND THE MINIMUM COVER OF 2.5" CANNOT BE ATTAINED, DO ONE OR MORE OF THE FOLLOWING:
(A) CHANGE TO AN OVAL PIPE;
(B) INSTALL MULTIPLE SMALLER DIA. PIPES;
(C) INSTALL A #3 REBAR OVER THE PIPE IN THE CURB FACE AREA.
- ALL CONCRETE SHALL BE CLASS B (5 SACK MIX), 3/4" MAX. AGGREGATE, WITH 2LB.-LAMPBLACK PER CUBIC YARD ADDED FOR COLORATION.
- ALL CONCRETE SHALL HAVE A LIGHT BROOMED FINISH, COLORED AND SCORED TO MATCH SURROUNDING SIDEWALK. SEE SIDEWALK DETAIL DRAWING A-1699.

REQUIREMENTS FOR CONSTRUCTION OF SIDEWALK, DRIVEWAY, CURB AND GUTTER (UNLESS OTHERWISE APPROVED BY ENGINEER)

- SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION IN SIDEWALK AREA OR 95% IN DRIVEWAY.
- ALL DRIVEWAY APPROACH RAMPS SHALL BE A MINIMUM 4' WIDE MEASURED FROM FACE OF CURB EXCEPT IN THE SINGLE FAMILY AREA WHERE THE RAMP MAY MATCH EXISTING. WHERE THE PARKING STRIP WIDTH IS LESS THAN 4', THE RAMP SHALL BE CONSTRUCTED INTO SIDEWALK AREA. BEHIND THE RAMP, SIDEWALK WIDTH SHALL BE 4'-0" IN COMMERCIAL, INDUSTRIAL AND MULTI-FAMILY AREAS
- ALL CONCRETE SHALL BE CLASS B (5 SACK MIX), 3/4" MAX. AGGREGATE, WITH 2LB.-LAMPBLACK PER CUBIC YARD ADDED FOR COLORATION.
- SIDEWALK SHALL HAVE A LIGHT BROOMED FINISH, COLORED AND SCORED TO MATCH SURROUNDING SIDEWALK.
- EXPANSION JOINTS SHALL BE INSTALLED ON EACH SIDE OF DRIVEWAY AND A MAXIMUM AT 20' CENTERS ALONG SIDEWALKS, CURBS AND GUTTERS.
- DRIVEWAY OR SIDEWALK ADJACENT TO CURB/GUTTER SHALL BE POURED MONOLITHIC WITH CURB AND GUTTER.
- DRIVEWAY WIDTH MAY VARY TO MEET SPECIAL CONDITIONS WITH APPROVAL OF THE CITY. (SEE MUNICIPAL CODE SECTION 12.04.060).
- CONCRETE THICKNESS FOR DRIVEWAYS IN INDUSTRIAL AREAS IS 8" MINIMUM. CONCRETE THICKNESS FOR DRIVEWAYS IN RESIDENTIAL AND MULTI-FAMILY IS 6" MINIMUM.
- ALL CONSTRUCTION SHALL CONFORM TO CITY STANDARDS AND THE LATEST CALTRANS STANDARDS.
- ALL TREES IN PARKING STRIP MUST BE PROTECTED FROM DAMAGE.
- NO TREE ROOTS LARGER THAN 2" ARE TO BE CUT UNLESS SPECIFICALLY APPROVED BY THE PARKS DEPARTMENT AT (650) 558-7300.
- ALL CONCRETE SHALL BE CURED FOR A PERIOD OF 72 HOURS. (CALTRANS SECTION 90-7)
- ALL CONCRETE REMOVALS SHALL BE SAWCUT FULL DEPTH OF CONCRETE SIDEWALK, DRIVEWAY AND APRONS.
- SAWCUT AND REMOVE/REPLACE A.C. PAVING 1' WIDE (MIN.) WITH HOT MIX A.C. SAWCUT FULL DEPTH AC AND CONCRETE 6"-7" +/- . REMOVE AND REPLACE WITH AC MATCHING COMBINED THICKNESS OR 6" AC MINIMUM.
- THE NEW DRIVEWAY MUST NOT ENCR OACH TO NEIGHBOR'S PROPERTY LINE PROJECTION INTO THE STREET WITHOUT WRITTEN APPROVAL FROM THE NEIGHBOR.
- ALL SIDEWALK MUST MEET CURRENT ADA REQUIREMENTS.
- ACTUAL DRIVEWAY WIDTH SHALL BE DETERMINE UPON APPLICATION OF THE CITY ENCROACHMENT PERMIT.
- THE TUNNELING OF CONCRETE SIDEWALKS FOR CURB DRAIN INSTALLATIONS IF NOT PERMITTED.
- PROVIDE AND INSTALL #4x12" DOWELS 18" O.C. MAXIMUM AT ALL JOINTS, NEW AND EXISTING CONCRETE SIDEWALK. #5x12" DOWELS ARE ALLOWED IF APPROVED AND DIRECTED BY ENGINEER. #4x12" DOWELS ARE REQUIRED AT ALL CURB AND GUTTER JOINTS AS SHOWN IN STANDARD DETAIL.

23 SIDEWALK, DRIVEWAY, CURB AND GUTTER CITY STANDARD DETAIL SW-1 NOT TO SCALE

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SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA

WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
STREET DETAILS 1

WH PROJ. NO. 140-115 CP #848993

APPROVAL RECOMMENDED BY:
Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

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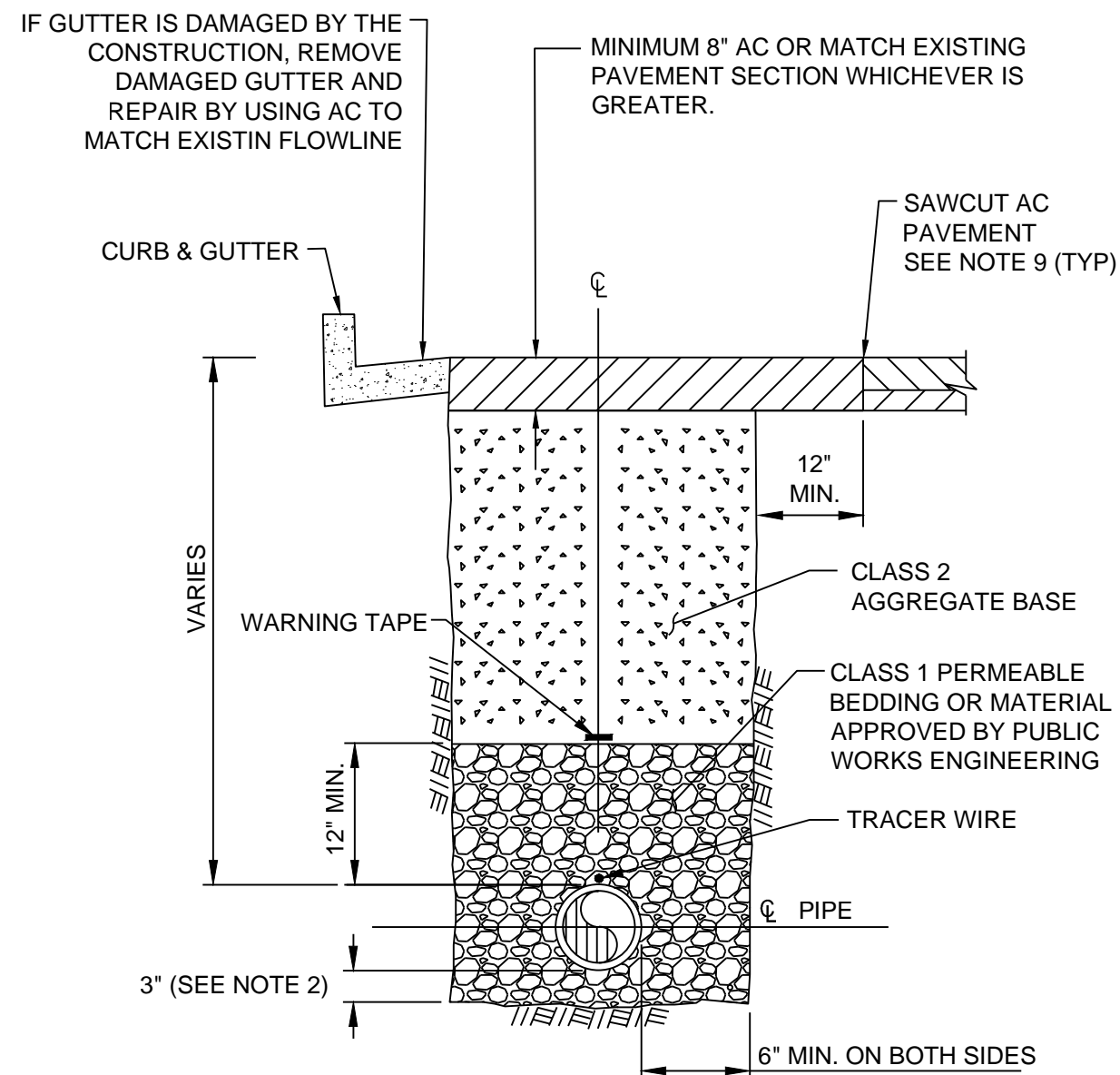
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Brandon S. Davis 3/28/24
BRANDON S. DAVIS DATE
WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24

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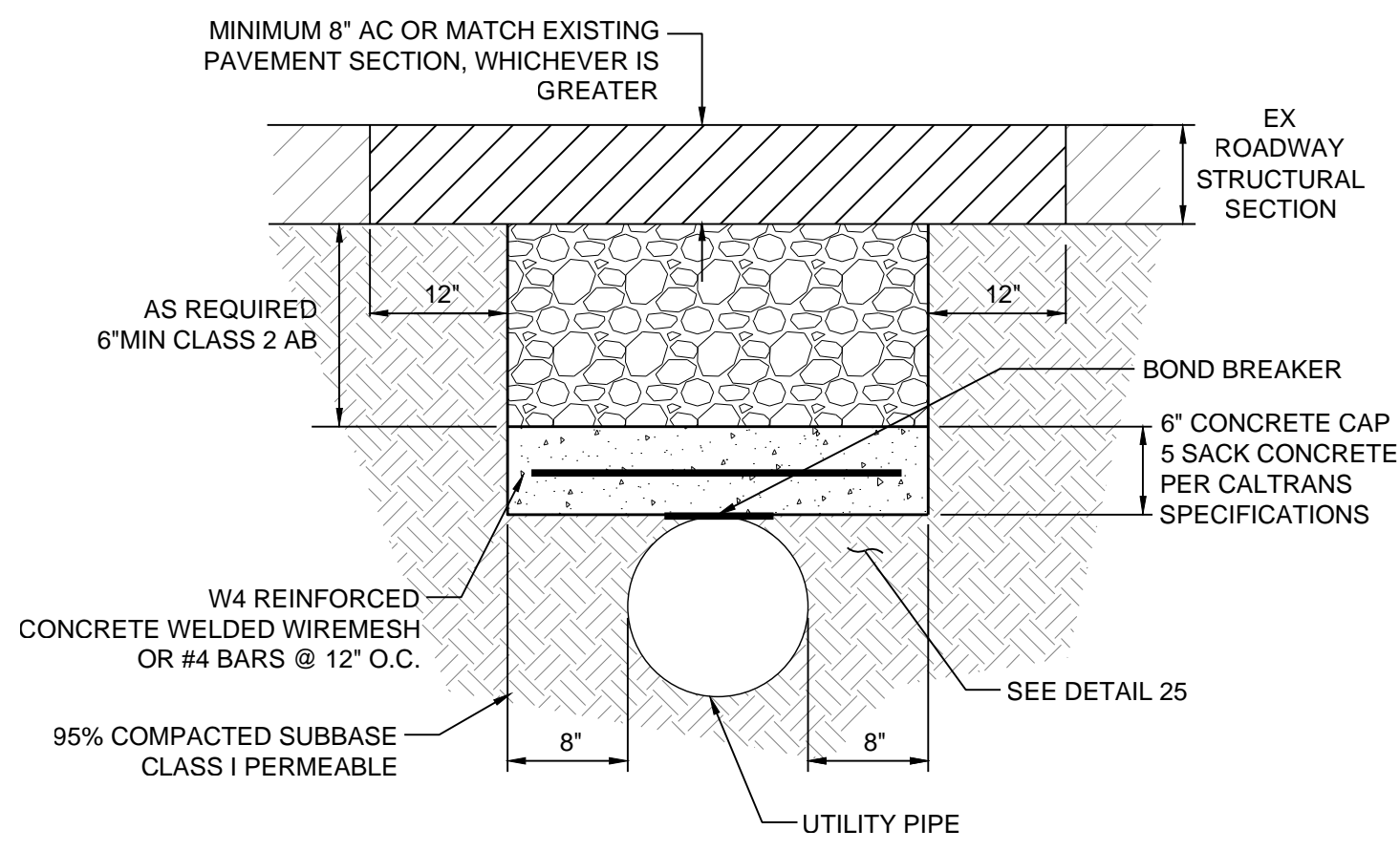
REGISTERED PROFESSIONAL ENGINEER
BRANDON S. DAVIS
C61024
CIVIL
STATE OF CALIFORNIA

SHEET **D5** OF **22** SHEETS

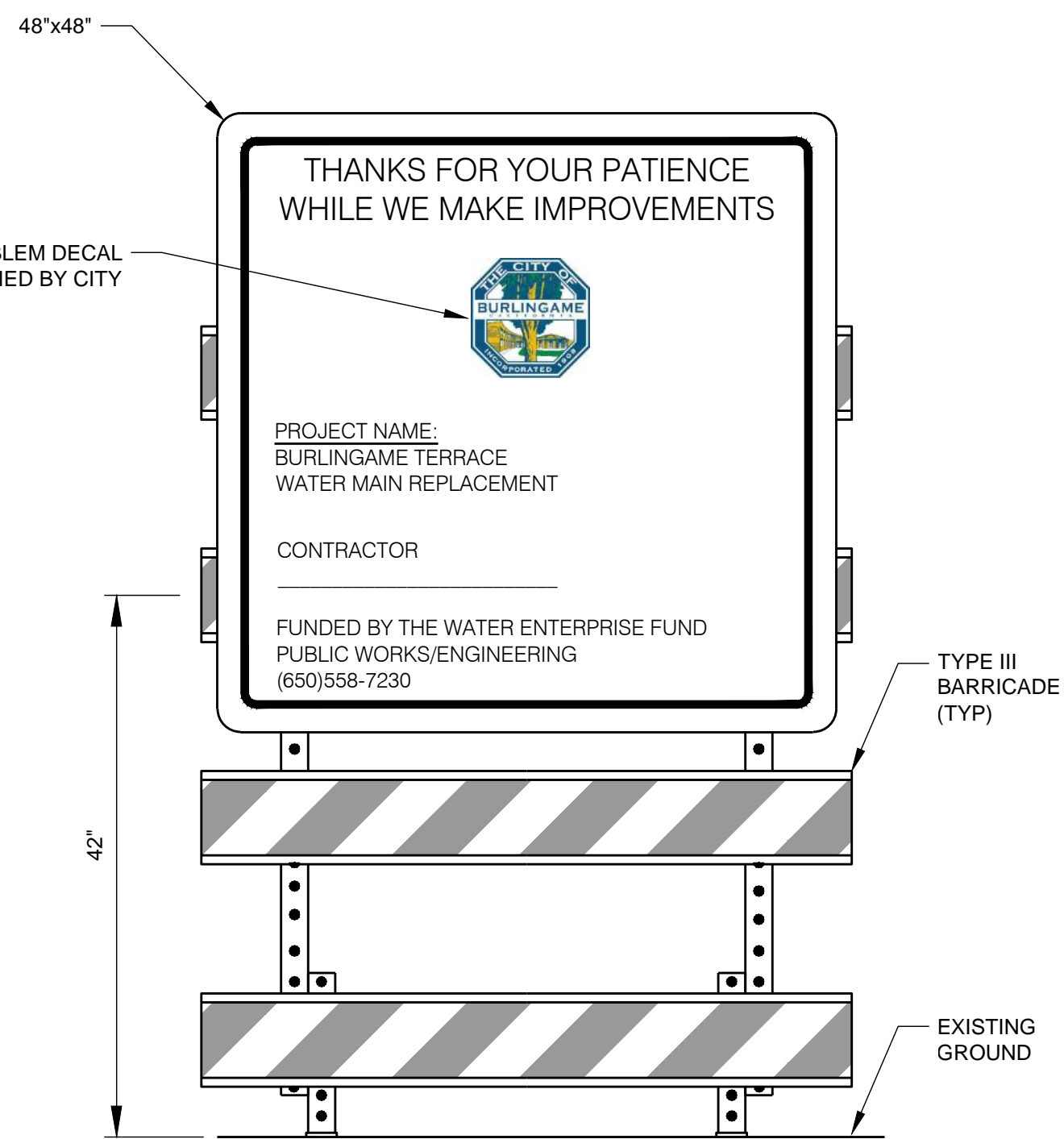


25 MODIFIED UTILITY TRENCH SECTION DETAIL
NOT TO SCALE

- REQUIREMENTS FOR TRENCH SECTION:**
- EXCAVATION SHALL NOT BE ALLOWED IN A STREET THAT HAS BEEN RESURFACED LESS THAN FIVE (5) YEARS AGO, UNLESS OTHERWISE APPROVED BY THE CITY.
 - CONTRACTOR SHALL PLACE 6" CLASS 1 PERMEABLE BEDDING IF SOIL UNDERNEATH THE PIPE IS WET, OR AS DIRECTED BY THE CITY.
 - BACKFILL MATERIAL SHALL BE CLASS 2 AGGREGATE BASE WITH 95% RELATIVE COMPACTION.
 - IF USE OF CDF IS APPROVED BY PUBLIC WORKS ENGINEERING, CDF SHALL BE NO MORE THAN 1-1/2 SACK CEMENT.
 - CONTRACTOR SHALL USE 1/2" ASPHALT CONCRETE ON THE EXPOSED SURFACE OF PAVEMENT.
 - TRENCH WIDTH SHALL BE MINIMUM OF 6" WIDER ON EACH SIDE OF THE PIPE PLUS THE DIAMETER OF THE PIPE.
 - FOR TREE ROOTS THAT ARE 2 INCHES OR MORE IN DIAMETER INSIDE THE TREE DRIP LINE, PLEASE CONTACT PARK DEPARTMENT AT (650) 558-7300 FOR INSPECTION PRIOR TO CUTTING THE ROOTS.
 - TEMPORARY STEEL PLATES MUST BE MAINTAINED REGULARLY. TEMPORARY STEEL PLATES OVER TRENCH OPENINGS SHALL BE REMOVED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER PLACEMENT. IF STEEL PLATES ARE NOT MAINTAINED OR NOT REMOVED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER PLACEMENT, A PENALTY MAY BE IMPOSED AS DETERMINED BY PUBLIC WORKS ENGINEERING.
 - IN STREET RIGHT-OF-WAY, ALL TRENCH JOINTS SHALL BE SEALED WITH SS-1 EMULSION WITH SAND OR CRACK FILLER.
 - THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PAVING LIMITS BASED ON THE ALIGNMENT OF THE TRENCH. PAVING LIMITS SHALL BE COORDINATED WITH PUBLIC WORKS ENGINEERING INSPECTOR AT 650-558-7230.

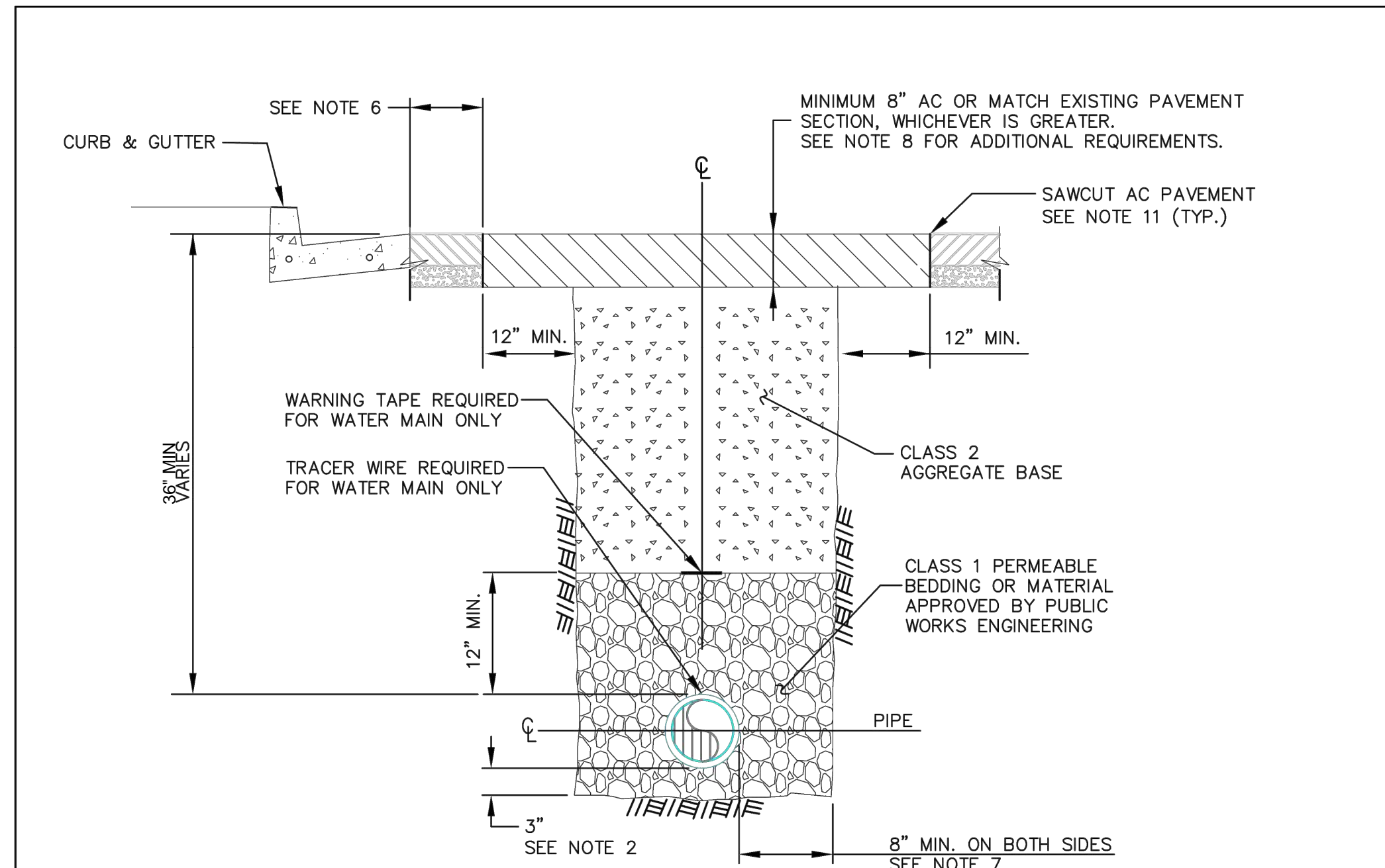


26 CONCRETE CAP DETAIL
NOT TO SCALE



27 PROJECT IDENTIFICATION SIGN
NOT TO SCALE

- NOTES:**
- UNLESS OTHERWISE SPECIFIED, SIGNS SHALL BE TWO SIDED. FOR ONE SIDED SIGNS, PLYWOOD FACING SHALL BE 3/4" THICK.
 - LOCATION AND NUMBER OF SIGNS SHALL BE AS SPECIFIED.

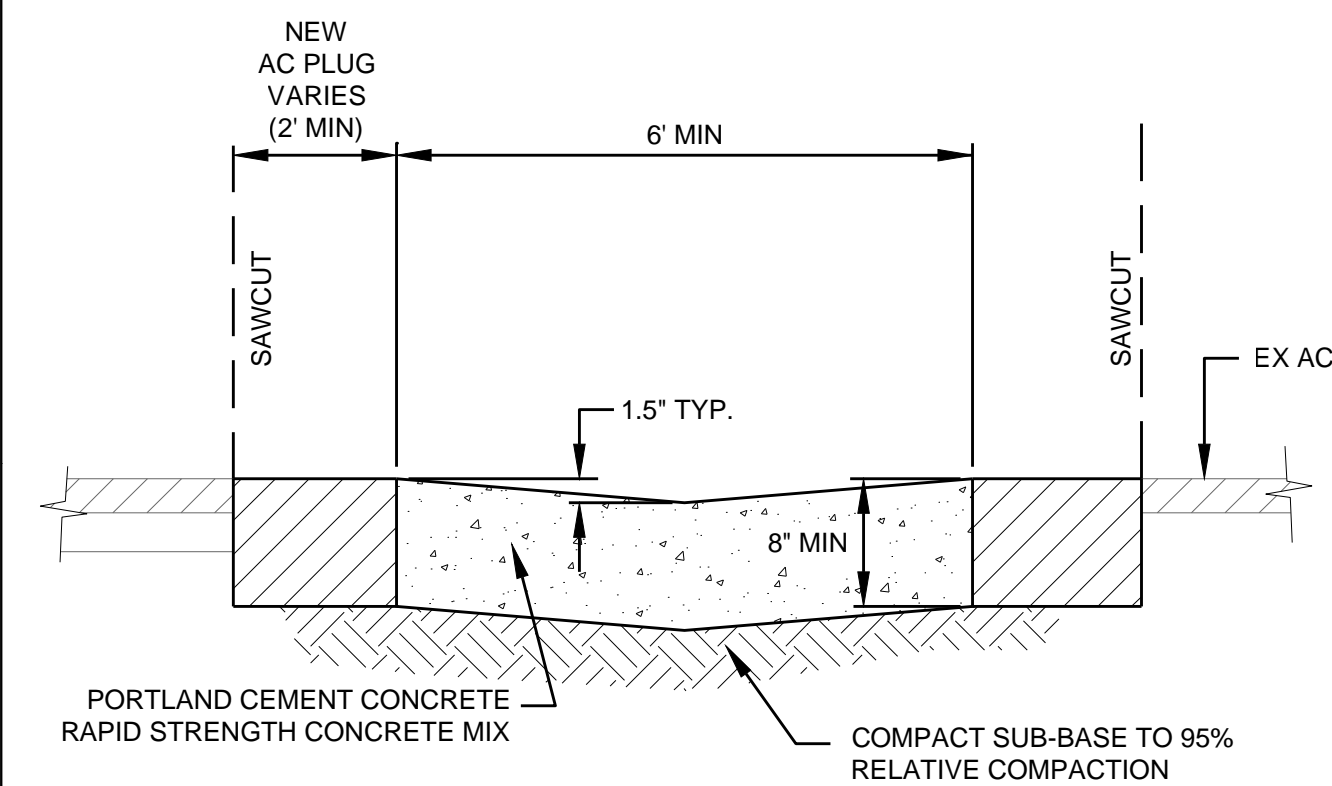


28 TYPICAL STANDARD UTILITY TRENCH SECTION
NOT TO SCALE

- REQUIREMENTS FOR TRENCH SECTION:**
- EXCAVATION SHALL NOT BE ALLOWED IN A STREET THAT HAS BEEN RESURFACES LESS THAN FIVE (5) YEARS AGO, UNLESS OTHERWISE APPROVED BY THE CITY.
 - CONTRACTOR SHALL PLACE MINIMUM 6" CLASS 1 PERMEABLE BEDDING IF SOIL UNDERNEATH THE PIPE IS WET, OR AS DIRECTED BY THE CITY.
 - BACKFILL MATERIAL SHALL BE CLASS 2 AGGREGATE BASE WITH 95% RELATIVE COMPACTION.
 - IF USE OF CDF IS APPROVED BY PUBLIC WORKS ENGINEERING, CDF SHALL BE NO MORE THAN 1-1/2 SACK CEMENT.
 - CONTRACTOR SHALL USE 1/2" ASPHALT CONCRETE ON THE EXPOSED SURFACE OF PAVEMENT.
 - PIPE TRENCH SECTIONS THREE FEET (3') OR LESS FROM A CONCRETE CURB, GUTTER, TRENCH OR JOINT SHALL INCLUDE THE REMOVAL AND RESTORATION OF THE THREE FEET (3') SEGMENT OF ASPHALT.
 - TRENCH WIDTH SHALL BE MINIMUM OF 8" WIDER ON EACH SIDE OF THE PIPE PLUS THE DIAMETER OF THE PIPE.
 - FOR CALIFORNIA DRIVE, BAYSHORE HIGHWAY, AND ROLLINS ROAD, PLACE MINIMUM 12" AC OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER.
 - FOR TREE ROOTS THAT ARE 2" (INCHES) OR MORE IN DIAMETER INSIDE THE TREE DRIP LINE, PLEASE CONTACT PARK DEPARTMENT AT (650) 558-7300 FOR INSPECTION PRIOR TO CUTTING THE ROOTS.
 - TEMPORARY STEEL PLATES MUST BE MAINTAINED REGULARLY. TEMPORARY STEEL PLATES OVER TRENCH OPENINGS SHALL BE REMOVED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER PLACEMENT. IF STEEL PLATES ARE NOT MAINTAINED OR NOT REMOVED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER PLACEMENT, A PENALTY MAY BE IMPOSED AS DETERMINED BY PUBLIC WORKS ENGINEERING.
 - IN STREET RIGHT-OF-WAY, ALL TRENCH JOINTS SHALL BE SEALED WITH SS-1 EMULSION WITH SAND OR CRACK FILLER.
 - THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PAVING LIMITS BASED ON THE ALIGNMENT OF THE TRENCH. PAVING LIMITS SHALL BE COORDINATED WITH PUBLIC WORKS ENGINEERING INSPECTOR AT 650-558-7230.

	TYPICAL STANDARD UTILITY TRENCH SECTION		APPROVED BY	DRAWING NO.
	DEPARTMENT OF PUBLIC WORKS		DATE 09/30/19	G-10

28 TYPICAL TRENCH SECTION
NOT TO SCALE



NOTE:
CONTRACTOR SHALL PLATE & PROTECT GREEN CONCRETE FOR A MINIMUM OF 5 DAYS

29 6\"/> NOT TO SCALE

H:\140-Burlingame\140-115 Burlingame Terrace Water Main Replacement\Engineering\Construction Drawings\08 STREET DETAILS 2.dwg 3/26/24 03:19:27 PM pbuisinger

NO.	DATE	ISSUE / REVISION DESCRIPTION	BY	BY	DATE
	03/28/24	ISSUE FOR BID	BSD		

WILSEY HAM
Engineering, Surveying & Planning
3130 La Selva Street, Suite 100
San Mateo, CA 94403
650.349.2151
wilseyham.com

SAN MATEO COUNTY
CITY OF BURLINGAME
CALIFORNIA
WEST BURLINGAME TERRACE
WATER MAIN REPLACEMENT
STREET DETAILS 2
WH PROJ. NO. 140-115
CP #84893

APPROVAL RECOMMENDED BY: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
REVIEWED FOR CONFORMANCE WITH CITY OF BURLINGAME STANDARDS AND REQUIREMENTS APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION HEREIN. THE CITY OF BURLINGAME AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.	
ART MORIMOTO R.C.E. NO. 42634 ASSISTANT PUBLIC WORKS DIRECTOR	DATE EXPIRES 03/31/26
DESIGNED UNDER THE DIRECTION OF: <i>Brandon S. Davis</i> 3/28/24 BRANDON S. DAVIS DATE WILSEY HAM R.C.E. NO. 61024 EXPIRES 12/31/24	
DESIGN: CTL	DATE: 03/28/24
DRAWN: DMM/PJB	DATE: 03/28/24
CHECKED: BSD	DATE: 03/28/24

SHEET **D6** OF **22** SHEETS