

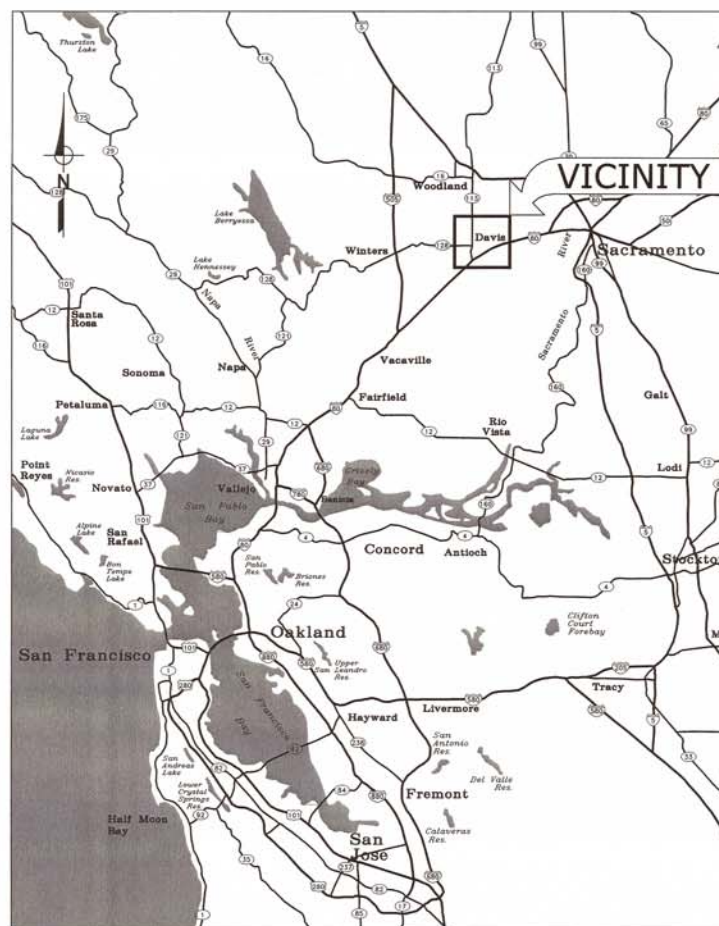
# IMPROVEMENT PLANS FOR NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT

NORTH DAVIS MEADOWS COUNTY SERVICE AREA

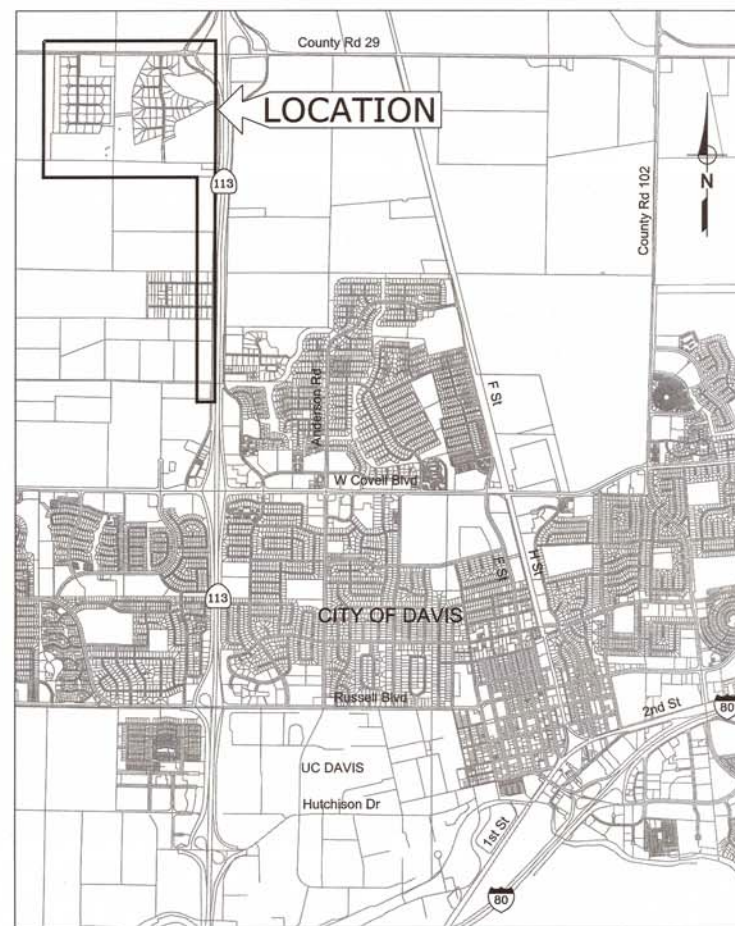
YOLO COUNTY, CALIFORNIA

## LEGEND

PROPOSED	EXISTING	
		STORM DRAIN
		SANITARY SEWER AND MANHOLE
		FIRE HYDRANT AND VALVE ASSEMBLY
		BUTTERFLY VALVE
		WATER MAIN, VALVE, WATER METER, AIR RELEASE VALVE & BLOWOFF VALVE
		EXISTING WATER PIPE TO BE REMOVED/ABANDONED IN PLACE
		AIR RELEASE VALVE
		WATER SAMPLING STATION
		IRRIGATION PIPELINE
		JOINT UTILITY TRENCH
		SANITARY SEWER FORCE MAIN
		GAS MAIN
		ELECTRICAL LINE
		ELECTRICAL LINE - OVERHEAD
		TELEPHONE LINE
		CABLE TELEVISION
		PG&E TRANSFORMER LOCATION
		STREET LIGHT CONDUIT, WIRING & PULL BOX
		STREET LIGHT AND POLE
		UTILITY POLE WITH DOWN GUY & ANCHOR
		POWER POLE, TELEPHONE POLE, JOINT POLE
		FENCE
		FLOWLINE OF DITCH OR SWALE
		DIRECTION OF SURFACE DRAINAGE FLOW
		CUT OR FILL SLOPE
		RIGHT OF WAY OR PROPERTY LINE
		STREET CENTERLINE OR BASELINE
		SURVEY MONUMENT
		SIGN
		TREE
		TREE TO BE REMOVED
		EXISTING GROUND SURFACE ELEVATION
		DRAINAGE DITCH
		DETAIL NO. / SHEET NO.
		SURVEY CONTROL POINT
		POTHOLE LOCATION
		CONCRETE PATH
		IRRIGATION BOX
		HOSE BIB
		ELECTRICAL VAULT
		GAS METER



VICINITY MAP  
NOT TO SCALE



LOCATION MAP  
NOT TO SCALE

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### AGENCY/UTILITY CONTACTS

UTILITY		REPRESENTATIVE	
GAS	PG&E	BRENT DRAWVER	(661)637-9807
ELECTRICITY	PG&E	BRENT DRAWVER	(661)637-9807
PHONE	AT&T	CHARLENE SASAMOTO	(707)258-5308
CABLE	COMCAST	MARK DUBY	(916)830-6743
WATER/SEWER	CITY OF DAVIS	STAN GRZYCKO	(530)747-8292

COUNTY OF YOLO  
DEPARTMENT OF COMMUNITY SERVICES  
APPROVED FOR CONSTRUCTION

TARŌ ECHIBURU  
COMMUNITY SERVICES DIRECTOR  
DATE 12/6/2018

CITY OF DAVIS  
APPROVED FOR EXTENSION OF CITY OF  
DAVIS WATER SYSTEM

CITY ENGINEER  
DATE APPROVED 12-7-2018

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019



WEST YOST  
ASSOCIATES  
2020 Research Park Drive  
Suite 100  
Davis, California 95618  
(530) 756-5905  
FAX (530) 756-5991

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT

BID DOCUMENTS

SCALE  
AS SHOWN

DWG NO  
G01

DATE: 12/06/2018

SHEET NO  
1 of 36

TITLE SHEET

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**ABBREVIATIONS**

AB	AGGREGATE BASE	LF	LINEAL FEET
AC	ASPHALT CONCRETE	MFR	MANUFACTURE
AF	ABOVE FINISH FLOOR	MAX	MAXIMUM
AL, ALUM	ALUMINUM	MIN	MINIMUM
APPROX	APPROXIMATE	MH	MANHOLE
ARV	AIR RELIEF VALVE	ME	MECHANICAL JOINT
ASPH	ASPHALT	MON	MONUMENT, MONITORING
BC	BEGIN CURVE	MOV	MOTOR OPERATED VALVE
BF	BLIND FLANGE	N	NEW, NORTH
BOV	BLOW-OFF VALVE	NI	NOT IN CONTRACT
BV, BFV	BUTTERFLY VALVE	NTS	NUMBER
BVC	BEGIN VERTICAL CURVE	#	NOT TO SCALE
CAV	COMBINATION AIR/VACUUM VALVE	OC	ON CENTER
CL, C	CENTER LINE	OD	OUTSIDE DIAMETER
CLR	CLEAR	OF	OVERFLOW
CLSM	CONTROL LOW STRENGTH MATERIAL	OH	OVERHEAD
CO	CLEAN OUT	PL, R	PLATE, PROPERTY LINE
CONC	CONCRETE	PSV	PRESSURE RELIEF VALVE
CMU	CONCRETE MASONRY UNIT	PRC	POINT OF REVERSE CURVE
CV	CHECK VALVE	PRV	PRESSURE REDUCING VALVE
CY	CUBIC YARDS	PSF	POUNDS PER SQUARE FOOT
DI	DRAIN INLET	PSI	POUNDS PER SQUARE INCH
DIA, Ø	DIAMETER	PG	PRESSURE GAUGE
DIP	DUCTILE IRON PIPE	PUE	PUBLIC UTILITY EASEMENT
DWG	DRAWING	PV	PLUG VALVE
EA	EACH	PVC	POLYVINYL CHLORIDE PIPE
EC	END HORIZONTAL CURVE	PVM/T	PAVEMENT
EF	EACH FACE	R	RADIUS
EL	ELEVATION	RCP	REINFORCED CONC PIPE
ELEC	ELECTRIC	REQ'D	REQUIRED
EP	EDGE OF PAVEMENT	REV	REVISION
EQUIP	EQUIPMENT	RJ	RESTRAINED JOINT
EVC	END VERTICAL CURVE	RR	RAILROAD
EW	EACH WAY	R/W	RIGHT OF WAY
EX. (E)	EXISTING	S	SEWER, SOUTH, SLOPE
EXP	EXPANSION	SCH	SCHEDULE
FF	FINISHED FLOOR	SDMH	STORM DRAIN MANHOLE
FH	FIRE HYDRANT	SPD	SUMP PUMP DISCHARGE
FCA	FLANGED COUPLING ADAPTER	SQ	SQUARE
FCO	FLOOR CLEANOUT	SS	SANITARY SEWER
FD	FLOOR DRAIN	SSB	STAINLESS STEEL BOLT
FL, C	FLOW LINE	SSMH	SANITARY SEWER MANHOLE
FLG	FLANGE	SST	STAINLESS STEEL
FO	FIBER OPTIC	STA	STATION
FRP	FIBERGLASS REINFORCED PLASTIC	ST	STREET
FOC	FACE OF CURB	STD	STANDARD
FT, '	FEET, FOOT	STL	STEEL
GA	GAUGE	SVC	SERVICE
GALV	GALVANIZED	SW	SIDEWALK
GB	GRADE BREAK	T	TELEPHONE
GS	GROUND SURFACE	T&B	TOP & BOTTOM
GSP	GROUND SURFACE PROFILE	TOC	TOP OF CONCRETE
GV	GATE VALVE	TOS	TOP OF STEEL OR TOP OF STRUCTURAL FRAME
HC	HANDICAPPED	TYP	TYPICAL
HMA	HOT MIX ASPHALT	UG	UNDERGROUND
HP	HIGH POINT IN PVM/T, HIGH PRESSURE	UPRR	UNION PACIFIC RAILROAD
HPI	HORIZONTAL POINT OF INFLECTION	VAR	VARIOUS
HORIZ	HORIZONTAL	VPI	VERTICAL POINT OF INTERSECTION
IE	INVERT ELEVATION	VTR	VENT THROUGH ROOF
IN, "	INVERT	W	WEST
IRR	IRRIGATION	W/	WITH
LAT	LATERAL	W/O	WITH OUT
		WS	WATER SURFACE
		WWF	WELDED WIRE FABRIC
		WV	WATER VALVE
		WW	WELL WATER

**WATER GENERAL NOTES**

- WHERE VALVE INSTALLATION IS SHOWN ADJACENT TO A TEE, BEND OR CROSS, ATTACH THE VALVE(S) TO THE FITTING PER CITY STANDARDS.
- POSITIONS OF EXISTING WATER MAIN ARE SHOWN BASED ON CITY SYSTEM MAPPING AND AVAILABLE VALVE LOCATIONS. FIELD VERIFY LOCATIONS BEFORE BEGINNING WORK.
- PRIOR TO BEGINNING ANY WORK INVOLVING WATER SYSTEM SHUTDOWN, PREPARE AND SUBMIT WATER SYSTEM SHUTDOWN PLAN SCHEDULING ALL WORK SHOWN ON THESE WATER SYSTEM PLANS TO LIMIT THE NUMBER AND DURATION OF ALL PLANNED SHUTDOWNS OF THE WATER SERVICE TO EXISTING CONNECTED USES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- WHERE WATER LINE CROSSES UNDERNEATH STORM OR SANITARY SEWER, INSTALL FULL 20 LF STICK OF PIPE CENTERED ON SEWER OR STORM PIPE ALIGNMENT PER SECTION G, ON SHEET 6.
- THE MAXIMUM LENGTH OF OPEN TRENCH ALLOWED AT THE END OF ANY WORK DAY SHALL BE 50 LINEAR FEET.
- USE CONCRETE THRUST BLOCKING PER CITY STANDARDS FOR THRUST RESTRAINT ON PIPE DIAMETER SIZES 12-INCH AND SMALLER. USE RESTRAINED JOINT ON FITTINGS AND PIPE ACCORDING TO DETAIL 2 TABLE ON SHEET 5 (DWG D01) FOR THRUST RESTRAINT ON LARGER PIPE SIZES.
- INSTALL PIPE IN CURVED ALIGNMENT WITH DEFLECTION ONLY AT MECHANICAL JOINT (MJ) COUPLINGS ON PLAIN PIPE ENDS AS NECESSARY TO APPROXIMATE THE DESIGNED CURVE RADIUS WITHOUT EXCEEDING A TOTAL DEFLECTION OF 4 DEGREES THROUGH ANY OF THE COUPLINGS. INSTALL COUPLINGS WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING. CONTRACTOR SHALL NOT BEND PIPE. CONTRACTOR SHALL NOT DEFLECT (PULL) BELL AND SPIGOT JOINTS TO ACHIEVE CURVED PIPE ALIGNMENT.
- ALL FITTINGS, EXCEPT TAPPING SLEEVES, SHALL BE FACTORY FUSION BONDED EPOXY (FBE) LINED AND COATED IN ACCORDANCE WITH AWWA C116.
- ALL FITTINGS SHALL CONFORM TO CITY MATERIAL STANDARD SECTION 203-4.3 AND SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT AND SEALED IN ACCORDANCE WITH CITY OF DAVIS CONSTRUCTION STANDARDS.
- CAUTION! EXISTING WATER SYSTEM CONTAINS NON-POTABLE WATER. NEWLY CONSTRUCTED PIPELINES LARGER THAN 10-INCH DIAMETER SHALL BE FILLED ONLY FROM CITY WATER SYSTEM. UPON COMPLETION OF TESTING AND CONNECTION OF NEW PORTIONS OF WATER SYSTEM AND DISCONNECTION OF EXISTING WELLS, CONTRACTOR SHALL SYSTEMATICALLY FLUSH ALL MAINS AND SERVICE PIPING PER CONTRACT SPECIFICATIONS TO REMOVE ALL NON-POTABLE WATER FROM WATER SYSTEM.
- CONTRACTOR SHALL POTHOLE ALL WATER SYSTEM TIE-IN POINTS PRIOR TO BEGINNING TRENCHING FOR PIPE INSTALLATION. UPSIZED PIPELINE REPLACEMENTS ARE INTENDED TO MATCH CENTERLINE GRADES OF EXISTING PIPES THAT ARE BEING REPLACED UNLESS SHOWN OTHERWISE.
- CONTRACTOR SHALL REMOVE PIPE TO BE ABANDONED TO A DISTANCE OF NOT LESS THAN 2 FEET FROM PIPE REMAINING IN SERVICE. CONTRACTOR SHALL PROVIDE SURVEYED POSITIONS OF ABANDONED PIPE LENGTHS WITH AS-BUILT RECORDS.
- CUSTOMER SERVICE OUTAGES FOR WATER MAIN WORK SHALL BE LIMITED TO A SINGLE 4-HOUR PERIOD, EXCEPT IN-PLACE WATER MAIN REPLACEMENT SEGMENTS MAY EXTEND THE OUTAGE UP TO 6-HOURS, IF THE CONTRACTOR IS WORKING CONTINUOUSLY TO KEEP DURATION AS SHORT AS POSSIBLE.

**GENERAL NOTES**

- ALL WATER SYSTEM IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF DAVIS STANDARD DETAILS AND SPECIFICATIONS MOST RECENT EDITION. ALL OTHER CONSTRUCTION AND MATERIALS SHALL CONFORM TO COUNTY OF YOLO STANDARDS.
- THE CONTRACTOR SHALL NOT BEGIN ANY WORK SHOWN ON THESE PLANS UNTIL THE APPROVAL OF THE COUNTY IS AFFIXED AND HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED. CONSTRUCTION ENCROACHMENT PERMIT WILL BE ISSUED TO THE CONTRACTOR FOR WORK IN COUNTY RIGHT-OF-WAY AT NO COST TO THE CONTRACTOR.
- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) 800-227-2600 AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
- EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS, CONTRACTOR SHALL LOCATE AND PRESERVE ALL FACILITIES INCLUDING SEWER, GAS, IRRIGATION, POWER, STREET LIGHTS, TELEPHONE AND OTHERS WHICH MAY BE IN AREA OF CONSTRUCTION. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION OF THE NEW IMPROVEMENTS OR CONNECTING TO OR IN THE VICINITY OF THE SAME.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD SURVEYING AND ESTABLISHING GRADE STAKING. STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR COMPLYING WITH THE STATE REQUIREMENTS.
- NO PAVEMENT WORK WILL OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF ANY NECESSARY UTILITY UNDERGROUND WORK WITHIN THAT RIGHT-OF-WAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND/OR OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED CALIFORNIA LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- IT IS INTENDED THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS NECESSARY FOR COMPLETION OF WORK IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN PLANS OR SPECIFICATIONS. ENGINEER'S INTERPRETATION OR CORRECTION THEREOF SHALL BE FINAL AND CONCLUSIVE. WHERE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAILS, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE SHALL PREVAIL AND ONLY MATERIALS AND WORKMANSHIP OF FIRST QUALITY SHALL BE USED.
- MATERIALS SUBMITTALS FOR MATERIAL INCORPORATED INTO THE WORK INCLUDING, BUT NOT LIMITED TO AGGREGATE BASE, HOT MIX ASPHALT, CONCRETE, SAND, AND ALL WATER SYSTEM PIPE, FITTINGS, COMPONENTS AND APPURTENANCES SHALL BE SUBMITTED TO THE COUNTY AT LEAST TWO WEEKS PRIOR TO DELIVERY OF MATERIALS TO THE SITE.

**GENERAL NOTES (CONTINUED)**

- TESTING IS REQUIRED FOR TRENCH BACKFILL, GRADE COMPACTION, CONCRETE SLUMP, AND CONCRETE STRENGTH. TESTING SHALL BE PROVIDED BY INDEPENDENT LABORATORY APPROVED BY THE COUNTY AND HIRED BY THE CONTRACTOR. ALL TESTING SHALL BE PAID BY CONTRACTOR. THE QUANTITY OF RE-TESTING SHALL BE AS REQUIRED BY THE COUNTY. ALL TEST RESULTS SHALL BE SUBMITTED TO THE COUNTY WITHIN THREE (3) WORKING DAYS.
- CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING THEIR OPERATIONS WITH ALL REQUIRED MATERIALS TESTING SERVICES AS REQUIRED BY THE YOLO COUNTY IMPROVEMENT STANDARDS AND THE COUNTY INSPECTOR. EACH PHASE OF CONSTRUCTION SHALL BE TESTED AND APPROVED BY THE COUNTY INSPECTOR PRIOR TO PROCEEDING TO SUBSEQUENT PHASES.
- CONTRACTOR SHALL, AT ALL TIMES, KEEP WORK AREA IN A NEAT AND SAFE CONDITION. UPON COMPLETION OF ANY PORTION OF WORK, CONTRACTOR SHALL PROMPTLY REMOVE ALL ITS EQUIPMENT AND SURPLUS MATERIALS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL, AT HIS/HER OWN EXPENSE, DISPOSE OF ALL RUBBISH, UNUSED MATERIALS AND OTHER EQUIPMENT BELONGING TO OR USED IN PERFORMANCE OF WORK, TO THE SATISFACTION OF THE ENGINEER. AFTER COMPLETION OF THE PROJECT, CONTRACTOR SHALL LEAVE THE PROJECT SITE IN EQUAL OR BETTER CONDITION THAN WHEN CONSTRUCTION BEGAN.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITION AND THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK SITE DURING THE CONSTRUCTION OF THE PROJECT.
- ALL CONSTRUCTION AND MATERIAL DELIVERY ROUTES SHALL BE MONITORED DURING THE PROJECT FOR ANY DAMAGE AND DEBRIS ATTRIBUTED TO THE PROJECT VEHICLES. ALL DAMAGE AND DEBRIS AS A RESULT OF THE PROJECT SHALL BE REPAIRED AND CLEANED PER COUNTY STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. CONTRACTOR IS DIRECTED TO CONTACT STATE OF CALIFORNIA, INDUSTRIAL RELATION DEPARTMENT (209) 948-7763. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN CONSTRUCTION AREAS AS NECESSARY FOR PERFORMANCE OF CONTRACT WORK.
- CONTRACTOR SHALL NOT DETOUR ANY TRAFFIC OTHER THAN AT LOCATIONS AND FOR DURATIONS NOTED ON THESE PLANS. CONTRACTOR SHALL NOT DETOUR ANY TRAFFIC WITHOUT PRIOR WRITTEN APPROVAL OF THE DETOUR ROUTE AND AN APPROVED ENGINEERED TRAFFIC CONTROL PLAN FOR THE DETOUR. SINGLE LANE CLOSURES WILL BE ALLOWED WITH FLAGGED TRAFFIC AND AN APPROVED, ENGINEERED TRAFFIC CONTROL PLAN. ANY PROPOSAL FOR CLOSURE OF A TRAFFIC LANE ON A COUNTY STREET SHALL BE SUBMITTED WITH THE TRAFFIC CONTROL PLAN TO THE ENGINEER IN WRITING AT LEAST TWO WEEKS IN ADVANCE OF THE PROPOSED CLOSURE. ACCESS TO ADJACENT PROPERTIES SHALL BE PROVIDED AT ALL TIMES.
- PROPER TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH COUNTY'S ADOPTED TRAFFIC MANUAL. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE COUNTY FOR REVIEW AT PRE-CONSTRUCTION MEETING AND OBTAIN ACCEPTANCE BEFORE STARTING ANY WORK. SAFE VEHICULAR, BICYCLE, AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TEMPORARY TRAFFIC BARRICADES, WITH OPERABLE FLASHING DEVICES, SPACED AT INTERVALS OF NOT TO EXCEED 50 FEET WHENEVER THE WORK AREA IS ADJACENT TO AN EXISTING TRAFFIC LANE AND THERE IS A PAVEMENT CUT, TRENCH, OR DITCH WHICH IS OVER 2 INCHES IN DEPTH, OR IF THE TRAFFIC LANE USED BY VEHICLES IS NOT PAVED. IF THE CUT, TRENCH, OR DITCH IS MORE THAN 10 FEET FROM TRAFFIC LANE, THEN THE BARRICADE SPACING MAY BE GREATER, PROVIDED THAT IT DOES NOT EXCEED 200 FEET.
- PRIOR TO EXCAVATION OF TRENCHES 5 FEET OR DEEPER, THE CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT INSPECTOR A COPY OF THE COMPANY'S ANNUAL CAL/OSHA EXCAVATION PERMIT AND A COPY OF THE COMPANY'S LETTER INFORMING CAL/OSHA OF THE TIME THE TRENCHING IS COMMENCING AND THE LOCATION OF THE WORK.
- CONTRACTOR SHALL COORDINATE WITH PG&E TO ALLOW PG&E PERSONNEL TO BE PRESENT WHEN EXCAVATING WITHIN 10 FEET OF EXISTING GAS MAIN.
- CONTRACTOR SHALL COORDINATE WITH WASTE MANAGEMENT SERVICES AND FACILITATE THE COLLECTION SERVICES THROUGH ANY ACTIVE CONSTRUCTION ZONES.
- CONTRACTOR SHALL NOT DISPOSE OF CHLORINATED OR OTHER CHEMICALLY TREATED WATER INTO ANY DRAINAGE SYSTEM.
- FOR HOT MIX ASPHALT REPLACEMENT, AMBIENT TEMPERATURE SHALL NOT BE LESS THAN 55 DEGREES FAHRENHEIT AND RISING IN THE SHADE.
- CONTRACTOR SHALL TAKE PRE-CONSTRUCTION AND POST-CONSTRUCTION PHOTOS AND VIDEOS OF ALL WORK AREAS AND SUBMIT THEM TO THE COUNTY PER CONTRACT SPECIFICATIONS.
- ALL PAVEMENT STRIPES, MARKERS, AND MARKINGS, INCLUDING BLUE MARKERS NOTING FIRE HYDRANT POSITIONS, SHALL BE REPLACED IN-KIND IF DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES.
- EXISTING ELECTRICAL CONDUITS FOR STREET LIGHTING IN NORTH DAVIS MEADOWS ARE NOT SHOWN DUE TO LACK OF RECORD DATA. COORDINATE DIRECTLY WITH COUNTY PUBLIC WORKS DURING USA NOTIFICATION AND MARKING PROCESS TO GET STREET LIGHT CONDUITS MARKED WITH USA.
- ALL TRENCH WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY AND COUNTY STANDARD DETAILS AS SHOWN AND MODIFIED IN THESE PLANS.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE COUNTY, INCLUDING ALL AS-BUILT, FIELD SURVEY MEASUREMENTS FOR ALL INVERTS, ROADSIDE DRAINAGE DITCHES, APPURTENANCE LOCATIONS, ROAD REPAIRS, OR OTHER FACILITIES AS REQUIRED BY THE COUNTY ENGINEER.
- COORDINATE FINAL LOCATION OF ALL PIPELINE APPURTENANCES WITHIN COUNTY RIGHT-OF-WAY WITH COUNTY INSPECTOR PRIOR TO INSTALLATION.

**GENERAL NOTES (CONTINUED)**

- WHERE CONSTRUCTION REMOVES, UNDERMINES, OR DAMAGES EXISTING PAVEMENTS WITHIN THE EXISTING VEHICLE TRAVEL LANE, CONTRACTOR SHALL PERFORM A FULL WIDTH OF 0.15' DEEP GRIND AND REPAVE OF ENTIRE LANE TO 10' BEYOND THE EXCAVATION/DAMAGE LIMITS IN EACH DIRECTION. FOR ROADS OTHER THAN COUNTY ROAD 99D, THIS REQUIREMENT APPLIES ONLY TO DAMAGE BEYOND THE TRENCH TEE CUT REPAIRS.
- CONTRACTOR SHALL IDENTIFY ALL PLANNED ACCESS POINTS FOR WORK OUTSIDE OF EXISTING ROADWAYS IN ADVANCE AND INCLUDE THE LOCATIONS IN THE SWPPP AND PROVIDE TRAFFIC CONTROL PLANS SUBJECT TO COUNTY APPROVAL FOR INGRESS/EGRESS CONTROLS.

**CONSTRUCTION NOTES:**

- INSTALL WATER PIPE (DIAMETER/LENGTH)
- INSTALL GATE VALVE (SIZE)
- INSTALL HORIZONTAL BEND (SIZE/ANGLE)
- INSTALL VERTICAL BEND (SIZE/ANGLE)
- INSTALL TEE (SIZE/SIZE)
- INSTALL CUT-IN CROSS PER DETAIL 9, SHT D05 (SIZE)
- INSTALL REDUCER (SIZE/SIZE)
- INSTALL BUTTERFLY VALVE (SIZE)
- INSTALL WATER SERVICE LATERAL (SIZE)
- INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03  
INSTALL METER WITH VALVES, ANODE AND BOX PER DETAIL 4, SHT D03 AND CONNECT TO EXISTING IRRIGATION SERVICE. LOCATE EXISTING PIPE AT EXISTING BACKFLOW PREVENTER AND INSTALL METER ON SUPPLY SIDE OF BACKFLOW (SIZE)
- LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.  
INSTALL HOT-TAPPED TEE ON EXISTING WATER MAIN (MAIN SIZE/TEE SIZE)
- INSTALL CUT-IN TEE PER DETAIL 8, SHT D05 (SIZE/SIZE)
- INSTALL NEW FIRE HYDRANT ASSEMBLY WITH CONCRETE ANCHOR PER CITY STANDARD PLAN 101-1. (SEE SHT D07)
- REMOVE EXISTING FIRE HYDRANT ASSEMBLY, LATERAL AND VALVE. INSTALL BLIND FLANGE WHERE VALVE WAS REMOVED
- INSTALL WATER SAMPLING STATION COMPLETE WITH 1-INCH SERVICE PER CITY OF DAVIS STD PLAN 101-10
- INSTALL COMBINATION AIR/VACUUM VALVE ASSEMBLY COMPLETE WITH 1-INCH SERVICE PER DETAIL 5, SHT D04  
REMOVE AND REPLACE 6-INCH CONCRETE PATH TO AT LEAST 1-FOOT BEYOND TRENCH EXCAVATION LIMITS. SAWCUT THE REPLACEMENT LIMITS PERPENDICULAR TO THE EXISTING PATH. WHERE LIMITS PER THIS REQUIREMENT ARE WITHIN 2- FEET OF AN EXISTING JOINT, EXTEND SAWCUT & REPLACEMENT LIMIT TO THE EXISTING JOINT
- INSTALL 6-INCH BYPASS WITH VALVES PER DETAIL 6, SHT D05
- INSTALL 6-INCH BYPASS WITH VALVES AND HOT-TAP PER DETAIL 10, SHT D05
- INSTALL 16-INCH RJ DUCTILE IRON WATER PIPE IN 27-INCH STEEL CASING BY BORE AND JACK METHOD PER DETAIL 11, SHT D06
- REMOVE EXISTING BACKFLOW PREVENTER AND INSTALL BACKFLOW PREVENTION ASSEMBLY PER CITY OF DAVIS STANDARD PLAN 101-11 (SIZE)
- INSTALL 4-INCH LOW-POINT BLOW OFF ASSEMBLY PER DETAIL 7, SHT D05
- CUT, CAP AND ABANDON EXISTING DISCONNECTED WATER
- DELETED
- DELETED
- INSTALL 1-INCH SERVICE THROUGH ANGLE METER STOP VALVE WITH METER BOX AND PIPE STUB AFTER VALVE PER CITY STANDARD FOR FUTURE PRESSURE SENSOR/TRANSDUCER (BY OTHERS). NO METER REQUIRED.
- INSTALL BLUE COMPOSITE UTILITY MARKER WITH DECAL STATING "CAUTION WATER PIPELINE" PER CITY STANDARDS.
- INSTALL BRASS MARKER IN 8-INCH CONCRETE CYLINDER MARKED WITH "CITY OF DAVIS WATER MAIN". INSTALL PER CITY STANDARD, EXCEPT SET MARKER FLUSH WITH EXISTING GRADE.

**CONSTRUCTION IN GOLF COURSE**

- NOTIFY THE GOLF COURSE MANAGER, JERRY LILLIEDOLL, AT THE DAVIS MUNICIPAL GOLF COURSE (756-4010 OR 756-0647) A MINIMUM OF THREE DAYS BEFORE STARTING CONSTRUCTION OF THE WATER MAIN ON THE GOLF COURSE. COORDINATE WITH JERRY THE SCHEDULE OF CONSTRUCTION SO THAT HE CAN SET UP TEMPORARY GREENS AND TEES, OR CAN CLOSE GOLF HOLES AS NEEDED. WATER MAIN CONSTRUCTION ACROSS THE GOLF COURSE IS TO BE DONE AS QUICKLY AS POSSIBLE.
- ANY IRRIGATION LINES THAT NEED TO BE CUT FOR CONSTRUCTION OF THE WATER MAIN ARE TO BE REPAIRED AND IN WORKING CONDITION BY 6PM DAILY TO ALLOW FOR EVENING IRRIGATION.
- ALL EXISTING LAWN AND/OR LANDSCAPING THAT IS DAMAGED OR REMOVED BY CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN-KIND TO THE SATISFACTION OF THE GOLF COURSE MANAGER AT NO ADDITIONAL EXPENSE TO COUNTY.
- FOR ALL WORK OUTSIDE OF EXISTING ROAD RIGHT-OF-WAY, CONTRACTOR SHALL KEEP ALL WORK, MATERIALS AND EQUIPMENT WITHIN A FORTY FOOT (40') WIDE STRIP OF LAND CENTERED ON THE PIPE ALIGNMENT, UNLESS OTHERWISE APPROVED BY GOLF COURSE MANAGER. CONSTRUCTION VEHICLES AND MATERIALS SHALL BE PLACED ON THE SIDES OF THE FAIRWAY AS DIRECTED BY GOLF COURSE MANAGER.

DESIGN ENGINEER

BY ASA J. UTTERBACK

ENGINEER'S NAME

DATE JANUARY 12, 2018 P.E. C57700

REGISTRATION EXPIRES 12/31/2019



**WEST YOST**



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Suite 100  
Davis, California 95618  
(530) 756-5905  
FAX (530) 756-5991

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT

GENERAL NOTES

**BID DOCUMENTS**

SCALE  
AS SHOWN

DATE: 12/06/2018

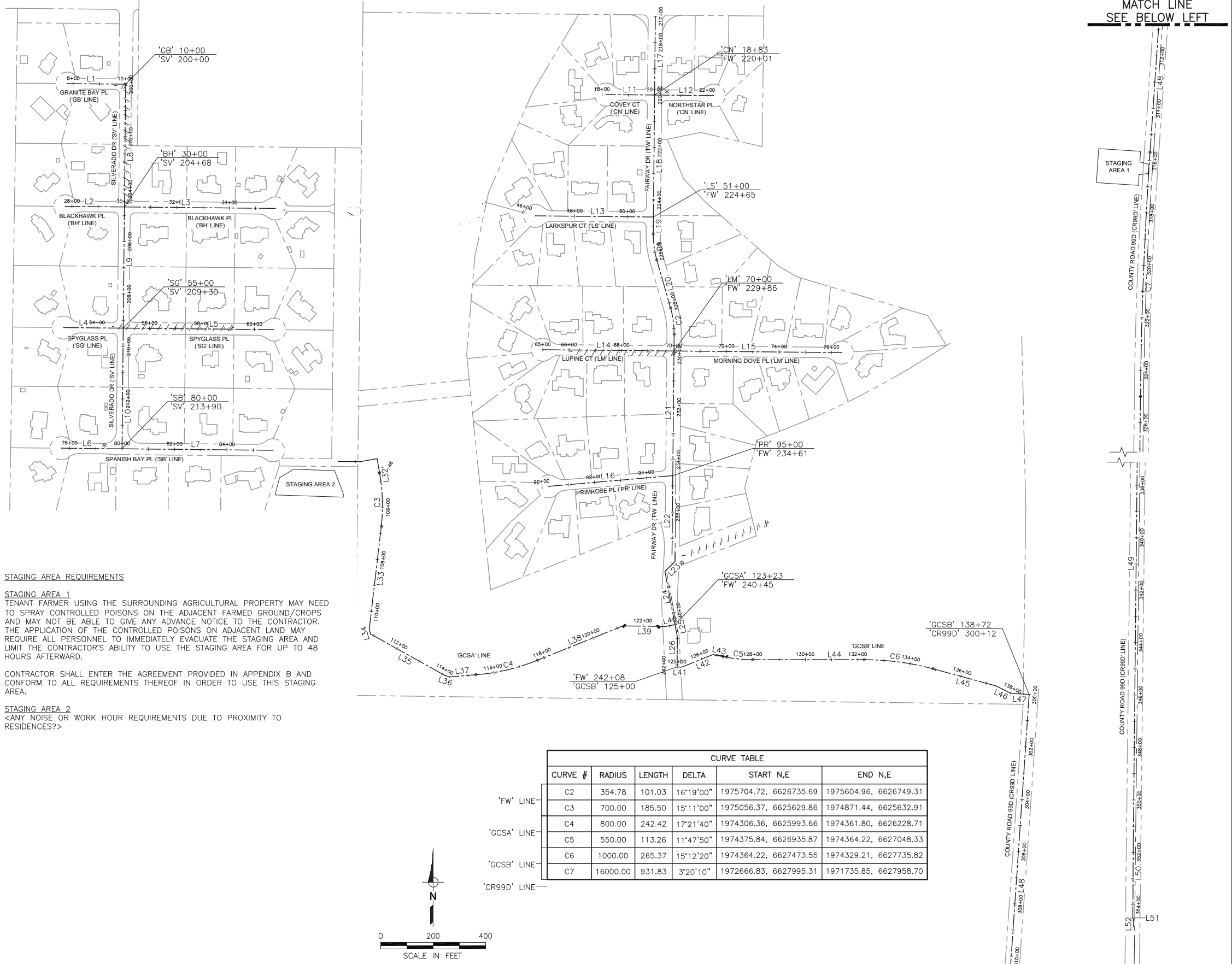
DWG NO  
G02

SHEET NO

2 of 36

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LINE TABLE					
LINE #	LENGTH	DIRECTION	START N,E	END N,E	
'GB' LINE	L1	222.56	S89°26'00"E	1976560.05, 6624436.30	1976557.85, 6624658.84
'BH' LINE	L4	227.77	S89°26'00"E	1975630.14, 6624421.90	1975627.90, 6624649.66
'SG' LINE	L5	575.11	S89°26'00"E	1975627.90, 6624649.66	1975622.22, 6625224.75
'SB' LINE	L6	230.36	S89°26'00"E	1975170.19, 6624414.77	1975167.92, 6624645.12
'SV' LINE	L7	575.44	S89°26'00"E	1975167.92, 6624645.12	1975162.24, 6625220.53
'CN' LINE	L8	468.00	S0°34'10"W	1976557.85, 6624658.86	1976089.87, 6624654.22
'LS' LINE	L9	462.00	S0°34'00"W	1976089.87, 6624654.22	1975627.90, 6624649.66
'LM' LINE	L10	460.00	S0°34'00"W	1975627.90, 6624649.66	1975167.92, 6624645.12
'PR' LINE	L11	185.00	S89°27'00"E	1976518.37, 6626489.82	1976516.59, 6626674.81
'FW' LINE	L12	225.05	S89°27'10"E	1976516.59, 6626674.81	1976514.45, 6626899.85
'GCSA' LINE	L13	450.00	S89°27'00"E	1976055.93, 6626220.37	1976051.61, 6626670.35
'GCSB' LINE	L14	500.10	S89°27'00"E	1975545.62, 6626248.62	1975540.82, 6626748.69
'CR99D' LINE	L15	639.90	S89°27'00"E	1975540.82, 6626748.69	1975534.68, 6627388.56
	L23	45.99	S46°35'20"W	1974737.56, 6626752.50	1974705.96, 6626719.10
	L24	210.90	S10°30'40"E	1974705.96, 6626719.10	1974498.59, 6626757.57
	L25	22.77	S10°30'40"E	1974498.59, 6626757.57	1974476.20, 6626761.72
	L26	140.28	S0°32'50"W	1974476.20, 6626761.72	1974335.93, 6626760.38
	L32	15.68	S8°32'20"E	1975071.88, 6625627.53	1975056.37, 6625629.86
	L33	393.99	S6°38'40"W	1974871.44, 6625632.91	1974480.09, 6625587.32
	L34	19.00	S15°50'20"E	1974480.09, 6625587.32	1974461.81, 6625592.50
	L35	323.58	S60°50'20"E	1974461.81, 6625592.50	1974304.14, 6625875.07
	L36	19.00	S72°05'20"E	1974304.14, 6625875.07	1974298.30, 6625893.15
	L37	100.83	N85°24'40"E	1974298.30, 6625893.15	1974306.36, 6625993.66
	L38	350.22	N68°02'50"E	1974361.80, 6626228.71	1974492.72, 6626553.54
	L39	164.60	S89°27'10"E	1974492.72, 6626553.54	1974491.14, 6626718.13
	L40	40.13	N79°17'50"E	1974491.14, 6626718.13	1974498.59, 6626757.57
	L41	33.03	S89°27'00"E	1974336.08, 6626745.38	1974335.76, 6626778.41
	L42	128.57	N68°02'50"E	1974335.76, 6626778.41	1974383.82, 6626897.65
	L43	39.04	S78°12'10"E	1974383.82, 6626897.65	1974375.84, 6626935.87
	L44	425.23	N90°00'00"E	1974364.22, 6627048.33	1974364.22, 6627473.55
	L45	250.01	S74°47'40"E	1974329.21, 6627735.82	1974263.64, 6627977.08
	L46	61.80	S63°32'40"E	1974263.64, 6627977.08	1974236.11, 6628032.41
	L47	70.27	S86°02'40"E	1974236.11, 6628032.41	1974231.27, 6628102.51
	L48	1578.10	S3°55'10"W	1974241.24, 6628103.19	1972666.83, 6627995.31
	L49	2665.43	S0°35'00"W	1971735.85, 6627958.70	1969070.56, 6627931.57
	L50	281.43	S0°22'40"W	1969070.56, 6627931.57	1968789.13, 6627929.72
	L51	7.90	S22°07'30"E	1968789.13, 6627929.72	1968781.82, 6627932.70
	L52	30.50	S0°17'20"W	1968781.82, 6627932.70	1968751.32, 6627932.54



**STAGING AREA REQUIREMENTS**

**STAGING AREA 1**  
TENANT FARMER USING THE SURROUNDING AGRICULTURAL PROPERTY MAY NEED TO SPRAY CONTROLLED POISONS ON THE ADJACENT FARMED GROUND/CROPS AND MAY NOT BE ABLE TO GIVE ANY ADVANCE NOTICE TO THE CONTRACTOR. THE APPLICATION OF THE CONTROLLED POISONS ON ADJACENT LAND MAY REQUIRE ALL PERSONNEL TO IMMEDIATELY EVACUATE THE STAGING AREA AND LIMIT THE CONTRACTOR'S ABILITY TO USE THE STAGING AREA FOR UP TO 48 HOURS AFTERWARD.

CONTRACTOR SHALL ENTER THE AGREEMENT PROVIDED IN APPENDIX B AND CONFORM TO ALL REQUIREMENTS THEREOF IN ORDER TO USE THIS STAGING AREA.

**STAGING AREA 2**  
<ANY NOISE OR WORK HOUR REQUIREMENTS DUE TO PROXIMITY TO RESIDENCES?>

CURVE TABLE						
CURVE #	RADIUS	LENGTH	DELTA	START N,E	END N,E	
'FW' LINE	C2	354.78	101.03	16°19'00"	1975704.72, 6626735.69	1975604.96, 6626749.31
'FW' LINE	C3	700.00	185.50	15°11'00"	1975056.37, 6625629.86	1974871.44, 6625632.91
'GCSA' LINE	C4	800.00	242.42	17°21'40"	1974306.36, 6625993.66	1974361.80, 6626228.71
'GCSA' LINE	C5	550.00	113.26	11°47'50"	1974375.84, 6626935.87	1974364.22, 6627048.33
'GCSB' LINE	C6	1000.00	265.37	15°12'20"	1974364.22, 6627473.55	1974329.21, 6627735.82
'CR99D' LINE	C7	16000.00	931.83	3°20'10"	1972666.83, 6627995.31	1971735.85, 6627958.70

DESIGNED_AJU					
DRAWN_JRR					
CHECKED_KLW					
	NO.	BY	DATE	REVISION	APP'D DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

**WEST YOST ASSOCIATES**  
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Suite 100  
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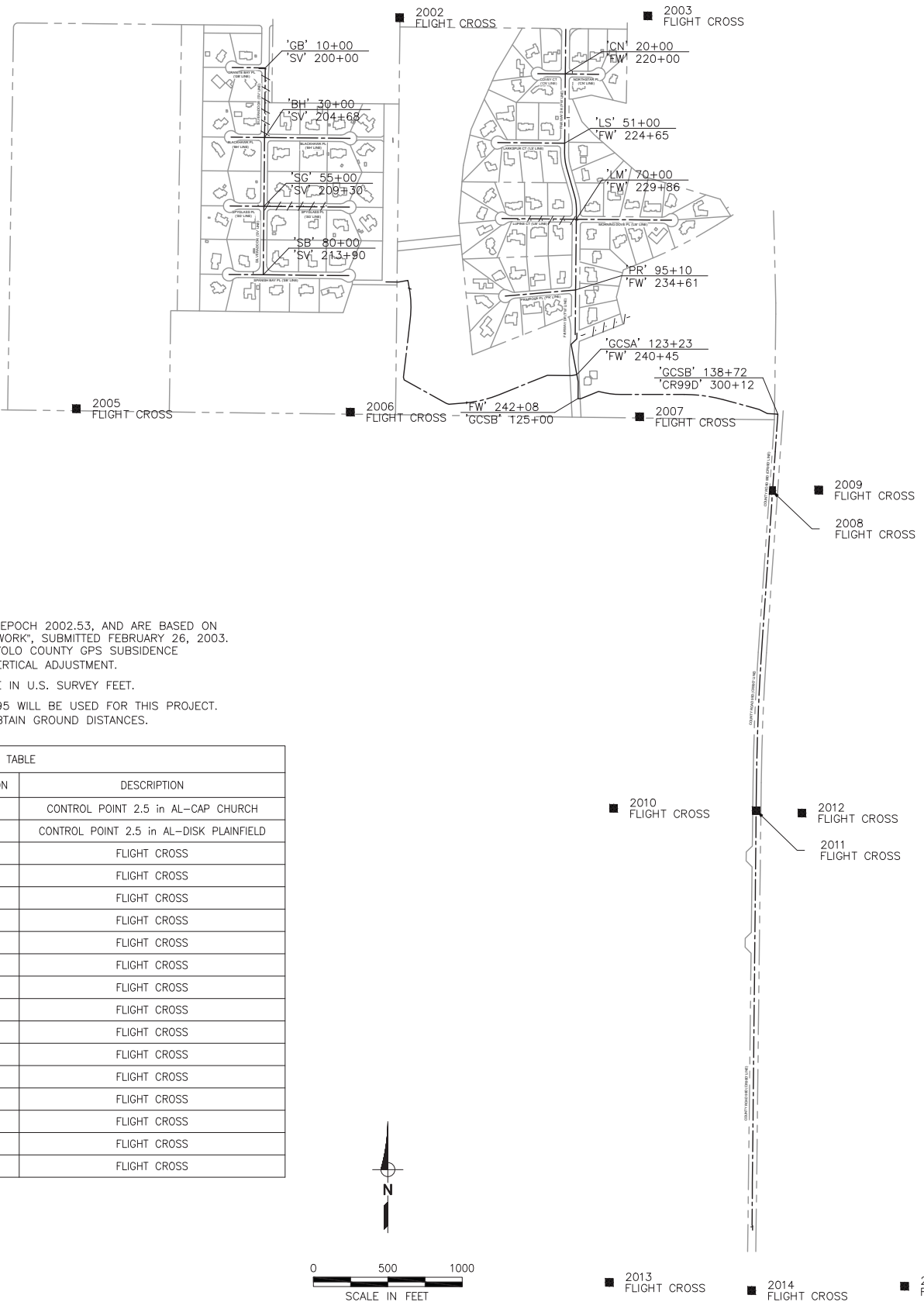
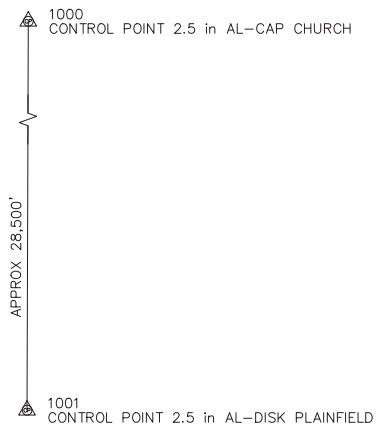
COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**

**ALIGNMENT CONTROL AND STAGING AREA PLAN**

SCALE AS SHOWN  
DATE: 12/06/2018  
DWG NO **G03**  
SHEET NO **3 of 36**

BID DOCUMENTS

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COORDINATES SHOWN ARE CCS83 ZONE2, EPOCH 2002.53, AND ARE BASED ON THE "YOLO COUNTY GPS SUBSIDENCE NETWORK", SUBMITTED FEBRUARY 26, 2003. ELEVATIONS SHOWN ARE BASED ON THE "YOLO COUNTY GPS SUBSIDENCE NETWORK" HOLDING PLAINFIELD FOR THE VERTICAL ADJUSTMENT.

COORDINATES AND ELEVATIONS SHOWN ARE IN U.S. SURVEY FEET.

AN AVERAGE COMBINED FACTOR OF 0.99995 WILL BE USED FOR THIS PROJECT. DIVIDE GRID DISTANCES BY 0.99995 TO OBTAIN GROUND DISTANCES.

POTHOLE TABLE					
PH#	STREET NAME	SHEET #	TYPE OF UTILITY	UTILITY SIZE	DEPTH
1	COVEY CT	C01	WATER	6"	3.9'
2	COVEY CT	C01	WATER	6"	3.9'
3	COVEY CT	C01	WATER	6"	3.9'
4	BLACKHAWK PL	C02	WATER	6"	4.4'
5	BLACKHAWK PL	C02	WATER	6"	4.4'
6	BLACKHAWK PL	C02	SSFM	2"	4.9'
7	BLACKHAWK PL	C02	GAS	4"	3.6'
8	BLACKHAWK PL	C02	ELECTRIC	4"	3.5'
9	SPYGLASS PL	C03	WATER	6"	4.8'
10	SPYGLASS PL	C03	WATER	6"	4.8'
11	LARKSPUR CT	C07	WATER	6"	4.2'
12	LARKSPUR CT	C07	WATER	6"	4.3'
13	LARKSPUR CT	C07	WATER	6"	4.3'
14	LARKSPUR CT	C07	SSFM	3"	6.2'
15	LARKSPUR CT	C07	COMMUNICATION	4"	4.8'
16	LUPINE CT	C08	SSFM	3"	6.4'
17	SPANISH BAY	C04	WATER	6"	4.9'
18	SPANISH BAY	C04	WATER	6"	3.2'
19	RD 99D	C19	GAS	4"	5.9' (1)
20	RD 99D	C19	COMMUNICATION	1"	6.5' (1)
21	RD 99D	C20	GAS	6"	7.7'
22	RD 99D	C20	COMMUNICATION	6"	8.0'
23	RD 99D	C21	GAS	.75"	6.9'

POTHOLE NOTE 1: NOTED DEPTH IS RELATIVE TO ADJACENT EDGE OF PAVEMENT

**POTHOLE DATA**

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2003455.66	6618054.62	0.00	CONTROL POINT 2.5 in AL-CAP CHURCH
1001	1974876.43	6617913.18	65.49	CONTROL POINT 2.5 in AL-DISK PLAINFIELD
2001	1976913.88	6623385.99	59.20	FLIGHT CROSS
2002	1976894.27	6625562.33	52.93	FLIGHT CROSS
2003	1976906.53	6627229.78	52.10	FLIGHT CROSS
2004	1976890.13	6628779.36	55.35	FLIGHT CROSS
2005	1974268.51	6623389.67	57.87	FLIGHT CROSS
2006	1974245.95	6625230.70	55.16	FLIGHT CROSS
2007	1974213.76	6627173.68	53.11	FLIGHT CROSS
2008	1973718.02	6628062.14	53.07	FLIGHT CROSS
2009	1973721.41	6628376.66	52.36	FLIGHT CROSS
2010	1971585.24	6626999.97	54.11	FLIGHT CROSS
2011	1971569.32	6627957.45	53.33	FLIGHT CROSS
2012	1971552.32	6628265.18	53.77	FLIGHT CROSS
2013	1968399.73	6626970.64	48.76	FLIGHT CROSS
2014	1968345.99	6627926.72	49.14	FLIGHT CROSS
2015	1968374.50	6628954.69	48.03	FLIGHT CROSS

**BID DOCUMENTS**

DESIGNED <u>AJU</u>					
DRAWN <u>JRR</u>					
CHECKED <u>KLW</u>					
	NO.	BY	DATE	REVISION	APP'D DATE

DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
 DATE JANUARY 12, 2018 P.E. C57700  
 REGISTRATION EXPIRES 12/31/2019

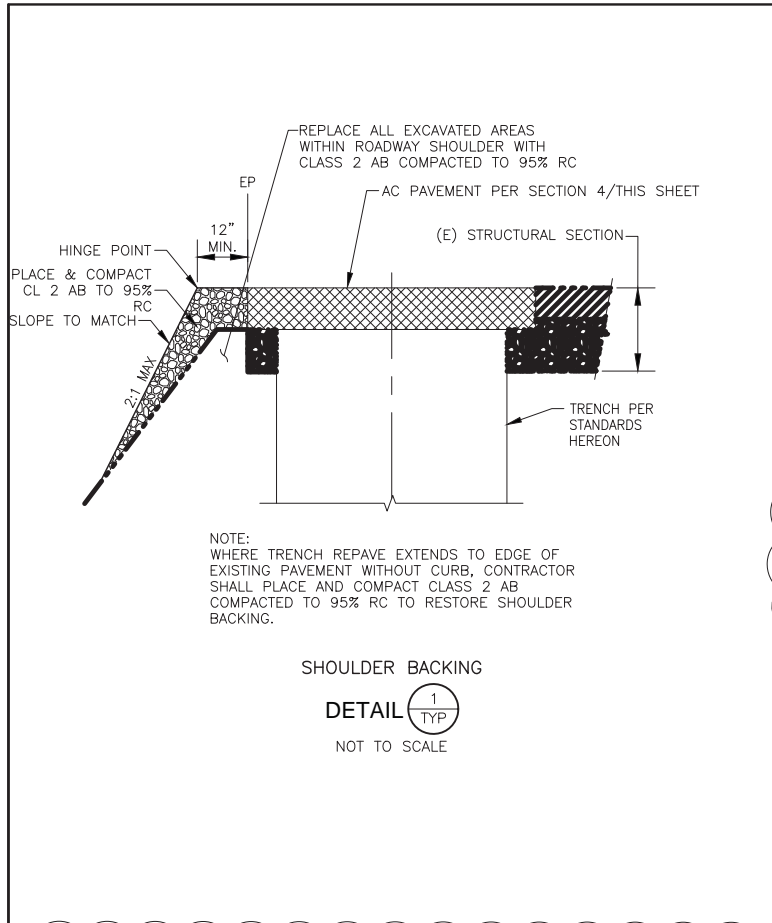
**WEST YOST ASSOCIATES**  
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 Davis, California 95618  
 (530) 756-5905  
 FAX (530) 756-5991

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT

**SURVEY CONTROL PLAN  
 AND POTHOLE DATA**

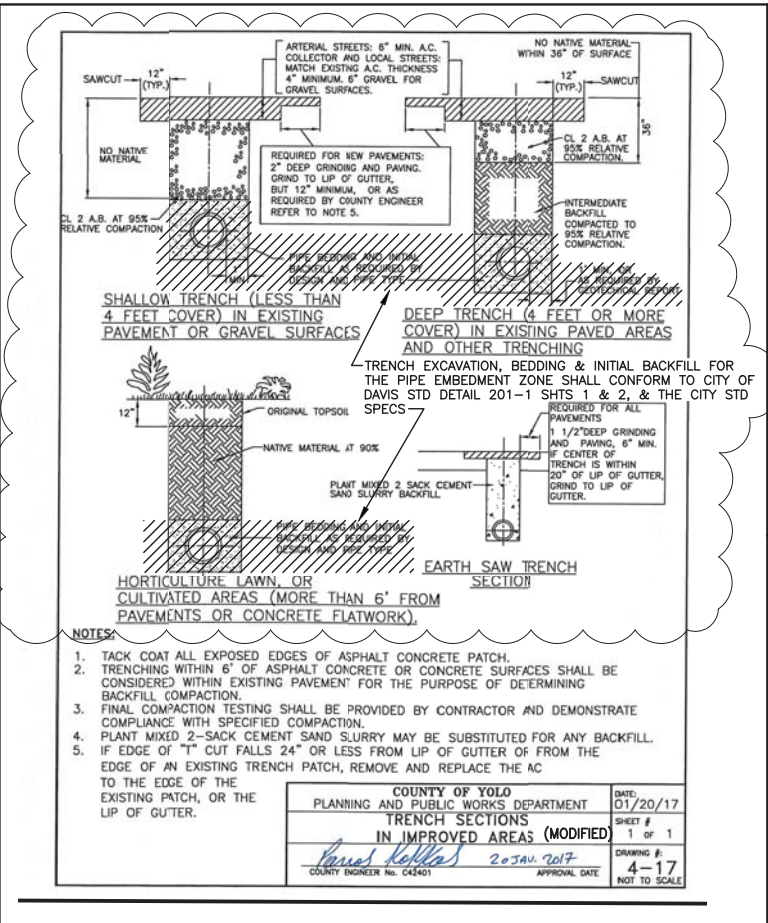
SCALE AS SHOWN	DWG NO <b>G04</b>
DATE: 12/06/2018	SHEET NO <b>4 of 36</b>

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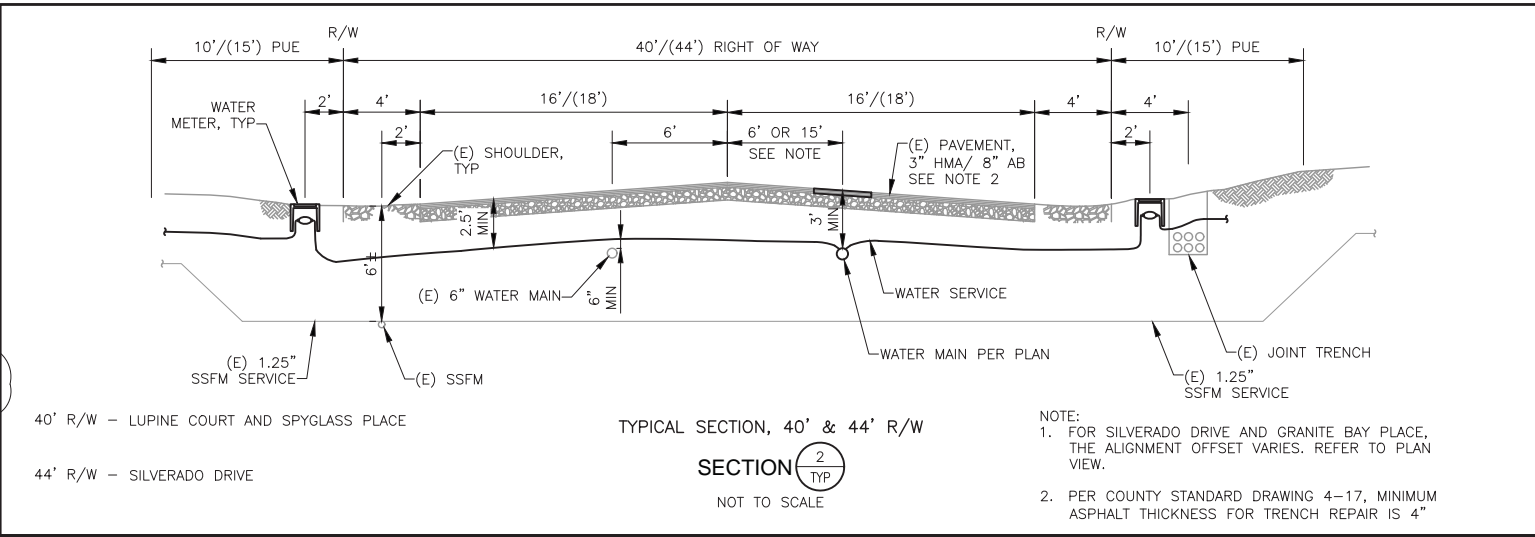
NOTE:  
WHERE TRENCH REPAVE EXTENDS TO EDGE OF EXISTING PAVEMENT WITHOUT CURB, CONTRACTOR SHALL PLACE AND COMPACT CLASS 2 AB COMPACTED TO 95% RC TO RESTORE SHOULDER BACKING.

SHOULDER BACKING  
DETAIL 1  
TYP  
NOT TO SCALE

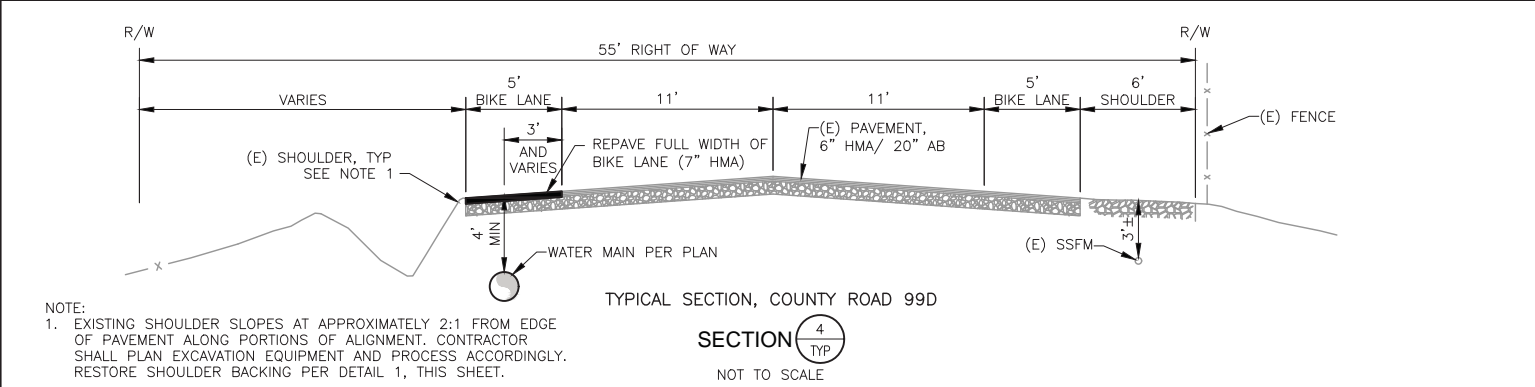


- NOTES:
- TACK COAT ALL EXPOSED EDGES OF ASPHALT CONCRETE PATCH.
  - TRENCHING WITHIN 6" OF ASPHALT CONCRETE OR CONCRETE SURFACES SHALL BE CONSIDERED WITHIN EXISTING PAVEMENT FOR THE PURPOSE OF DETERMINING BACKFILL COMPACTION.
  - FINAL COMPACTION TESTING SHALL BE PROVIDED BY CONTRACTOR AND DEMONSTRATE COMPLIANCE WITH SPECIFIED COMPACTION.
  - PLANT MIXED 2-SACK CEMENT SAND SLURRY MAY BE SUBSTITUTED FOR ANY BACKFILL.
  - IF EDGE OF "T" CUT FALLS 24" OR LESS FROM LIP OF GUTTER OF FROM THE EDGE OF AN EXISTING TRENCH PATCH, REMOVE AND REPLACE THE AC TO THE EDGE OF THE EXISTING PATCH, OR THE LIP OF GUTTER.

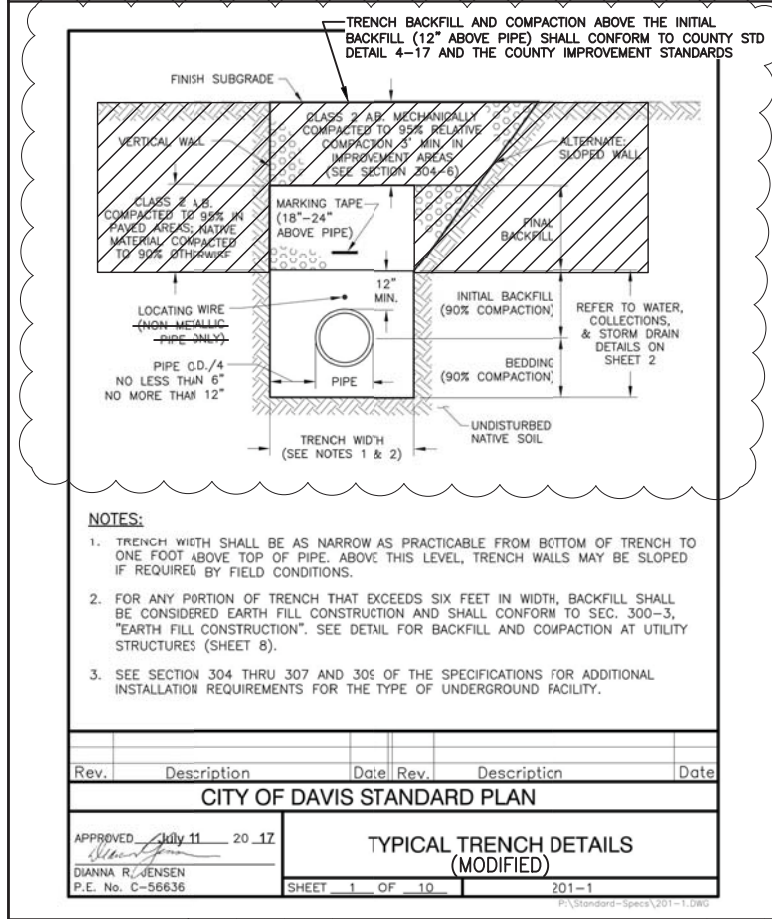
COUNTY OF YOLO  
PLANNING AND PUBLIC WORKS DEPARTMENT  
TRENCH SECTIONS  
IN IMPROVED AREAS (MODIFIED)  
DATE: 01/20/17  
SHEET # 1 OF 1  
DRAWING # 4-17  
NOT TO SCALE



TYPICAL SECTION, 40' & 44' R/W  
SECTION 2  
TYP  
NOT TO SCALE

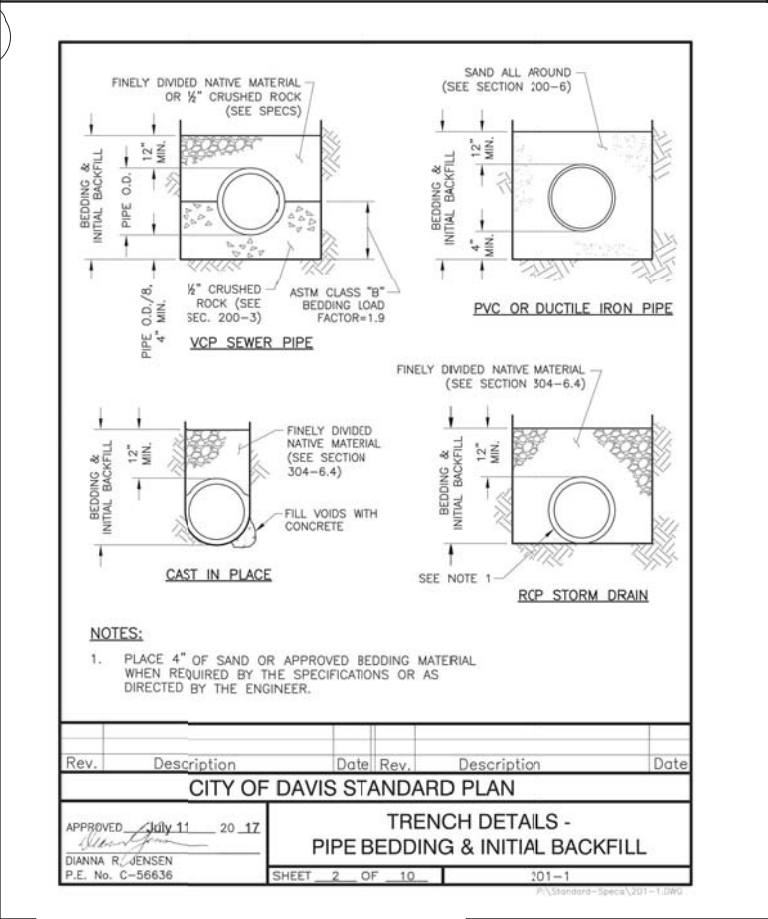


TYPICAL SECTION, COUNTY ROAD 99D  
SECTION 4  
TYP  
NOT TO SCALE



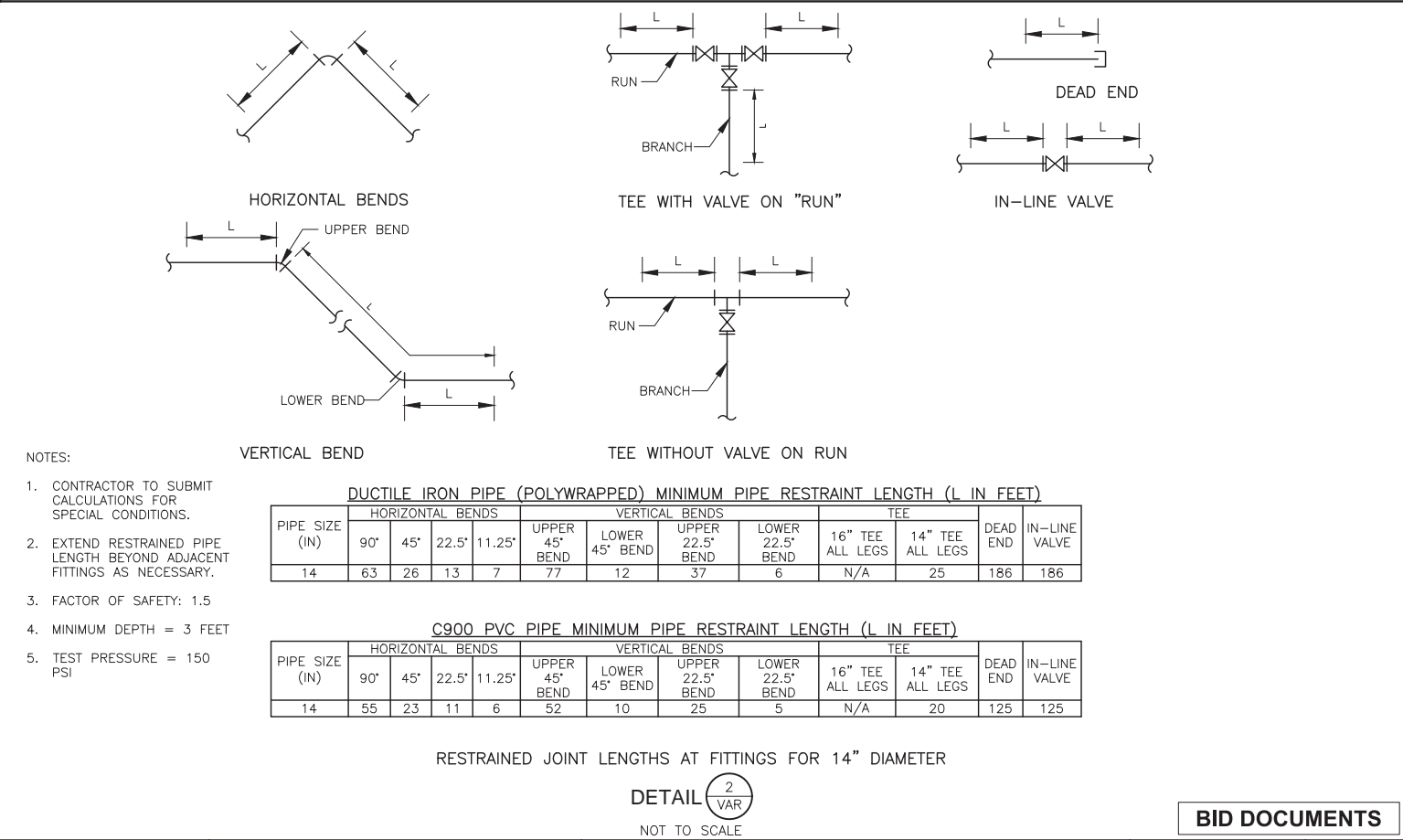
- NOTES:
- TRENCH WIDTH SHALL BE AS NARROW AS PRACTICABLE FROM BOTTOM OF TRENCH TO ONE FOOT ABOVE TOP OF PIPE. ABOVE THIS LEVEL, TRENCH WALLS MAY BE SLOPED IF REQUIRED BY FIELD CONDITIONS.
  - FOR ANY PORTION OF TRENCH THAT EXCEEDS SIX FEET IN WIDTH, BACKFILL SHALL BE CONSIDERED EARTH FILL CONSTRUCTION AND SHALL CONFORM TO SEC. 300-3, "EARTH FILL CONSTRUCTION". SEE DETAIL FOR BACKFILL AND COMPACTION AT UTILITY STRUCTURES (SHEET 8).
  - SEE SECTION 304 THRU 307 AND 308 OF THE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS FOR THE TYPE OF UNDERGROUND FACILITY.

CITY OF DAVIS STANDARD PLAN  
TYPICAL TRENCH DETAILS (MODIFIED)  
APPROVED July 11 20 17  
DIANNA R. JENSEN  
P.E. No. C-56636  
SHEET 1 OF 10  
201-1



- NOTES:
- PLACE 4" OF SAND OR APPROVED BEDDING MATERIAL WHEN REQUIRED BY THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

CITY OF DAVIS STANDARD PLAN  
TRENCH DETAILS - PIPE BEDDING & INITIAL BACKFILL  
APPROVED July 11 20 17  
DIANNA R. JENSEN  
P.E. No. C-56636  
SHEET 2 OF 10  
201-1



- NOTES:
- CONTRACTOR TO SUBMIT CALCULATIONS FOR SPECIAL CONDITIONS.
  - EXTEND RESTRAINED PIPE LENGTH BEYOND ADJACENT FITTINGS AS NECESSARY.
  - FACTOR OF SAFETY: 1.5
  - MINIMUM DEPTH = 3 FEET
  - TEST PRESSURE = 150 PSI

DUCTILE IRON PIPE (POLYWRAPPED) MINIMUM PIPE RESTRAINT LENGTH (L IN FEET)

PIPE SIZE (IN)	HORIZONTAL BENDS				VERTICAL BENDS			TEE		DEAD END	IN-LINE VALVE	
	90°	45°	22.5°	11.25°	UPPER 45° BEND	LOWER 45° BEND	UPPER 22.5° BEND	LOWER 22.5° BEND	16" TEE ALL LEGS			14" TEE ALL LEGS
14	63	26	13	7	77	12	37	6	N/A	25	186	186

C900 PVC PIPE MINIMUM PIPE RESTRAINT LENGTH (L IN FEET)

PIPE SIZE (IN)	HORIZONTAL BENDS				VERTICAL BENDS			TEE		DEAD END	IN-LINE VALVE	
	90°	45°	22.5°	11.25°	UPPER 45° BEND	LOWER 45° BEND	UPPER 22.5° BEND	LOWER 22.5° BEND	16" TEE ALL LEGS			14" TEE ALL LEGS
14	55	23	11	6	52	10	25	5	N/A	20	125	125

RESTRAINED JOINT LENGTHS AT FITTINGS FOR 14" DIAMETER

DETAIL 2  
VAR  
NOT TO SCALE

DESIGNED	DRAWN	CHECKED	NO.	BY	DATE	REVISION	APP'D	DATE
AJU	JRR	KLW						

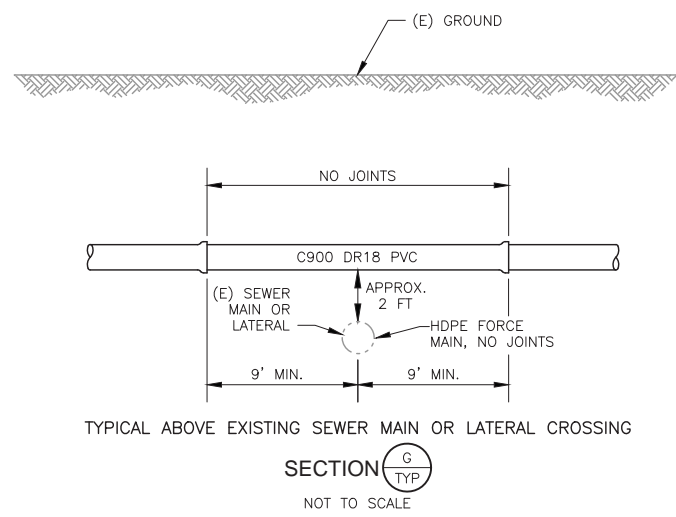
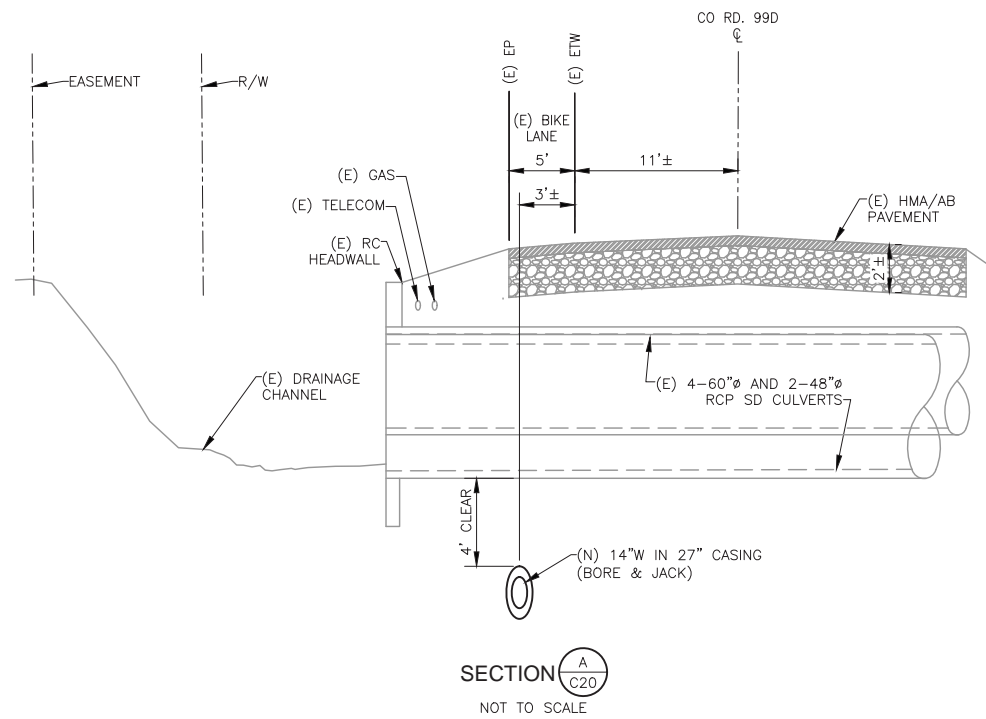
DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

WEST YOST ASSOCIATES  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT  
TYPICAL SECTIONS AND STANDARDS 1

SCALE AS SHOWN  
DWG NO D01  
DATE: 12/06/2018  
SHEET NO 5 of 36

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DESIGNED	AJU				
DRAWN	JRR				
CHECKED	KLW				
	NO.	BY	DATE	REVISION	APP'D DATE

DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
 DATE JANUARY 12, 2018 P.E. C57700  
 REGISTRATION EXPIRES 12/31/2019

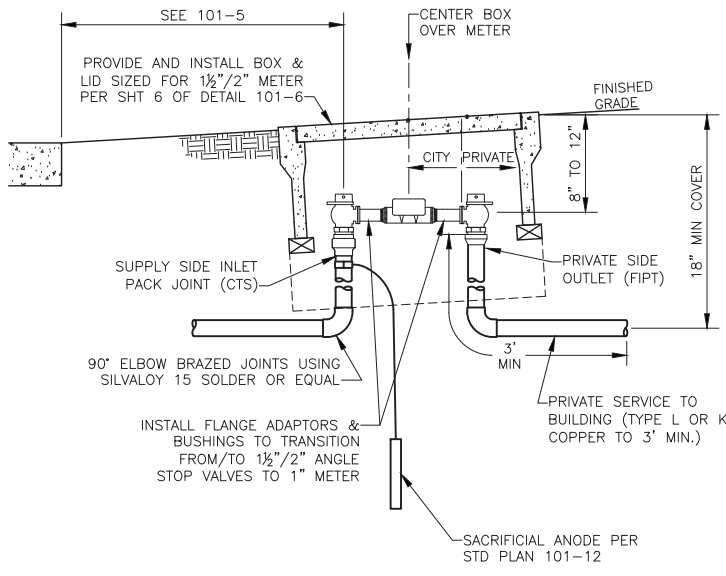
**WEST YOST ASSOCIATES**  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT

TYPICAL SECTIONS

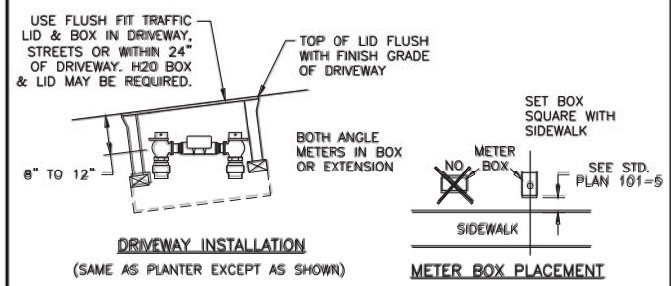
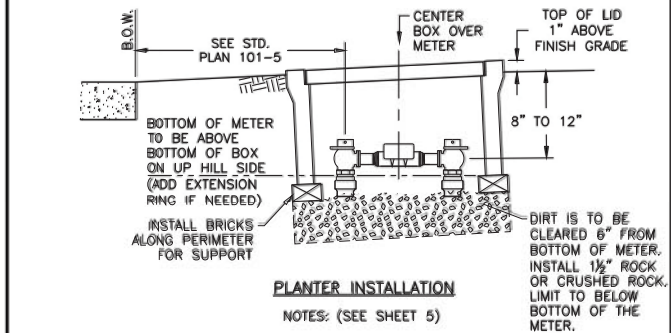
BID DOCUMENTS	
SCALE AS SHOWN	DWG NO D02
DATE: 12/06/2018	SHEET NO 6 of 36

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1" WATER METER DETAIL FOR INSTALLATION ON 1.5" & 2" SERVICE LATERALS

DETAIL 3  
TYP  
NOT TO SCALE



Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
<b>WATER METER BOX DETAILS FOR DRIVEWAYS, &amp; PLANTERS 2" &amp; SMALLER</b>					
APPROVED <i>[Signature]</i> July 11 20 17		DIANNA R. JENSEN P.E. No. C-56636			
SHEET 4 OF 6		101-6			

SERVICE SIZE	MANUFACTURER	SUPPLY SIDE MODEL#	COPPERSETTER
1"	Ford Mueller Jones McDonald	BA43-444W P-2425B E-1963W 74602B-22	As Approved
1 1/2"	Ford Mueller Jones McDonald	BFA43-666W B24276 E-1975W 74602B-22	As Approved.
2"	Ford Mueller Jones McDonald	BFA43-777W B24276 E-1975W 74602B-22	As Approved.
4"+	Gate Valves designed per Standard Specifications, designed by private Engineer, reviewed and approved by City Engineer.		Not applicable.

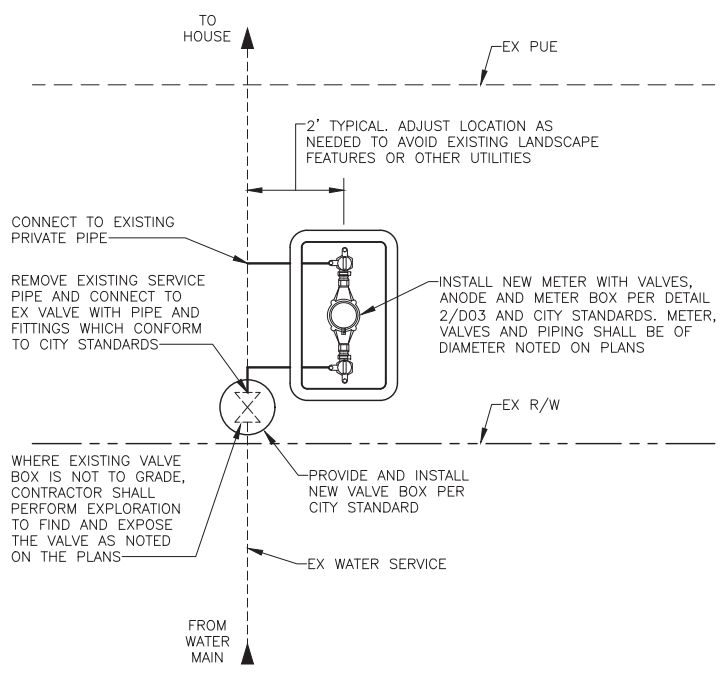
- METER SERVICE CONSTRUCTION NOTES:**
- Water Division - Public Works Department, shall determine appropriate meter size based upon water meter sizing form submitted by applicant.
  - Suitable Backflow prevention shall be provided downstream of the meter when required by the City. Refer to the Rules and Regulations for Backflow Prevention published by PW.
  - Coppersetter with bypass may be required depending on service use. Provide meter box extensions to fully enclose bypass.
  - Silvaloy 15 solder or equal shall be used for all brazing.
  - All adapters and other fittings shall be of the same manufacturer as both angle meter stops at a particular service. Angle stops at front and back of meter shall be of same manufacturer.
  - Makes/models shown in the table above are approved for use by the City. Equivalent meter stops, angle stops and accessories by other manufacturers may be allowed subject to City Engineer review and approval.
  - Multiple meters serving one address shall be labeled per Spec. Sect. 203-10.9.

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
<b>ANGLE METER STOPS &amp; CONSTRUCTION NOTES</b>					
APPROVED <i>[Signature]</i> July 11 20 17		DIANNA R. JENSEN P.E. No. C-56636			
SHEET 5 OF 6		101-6			

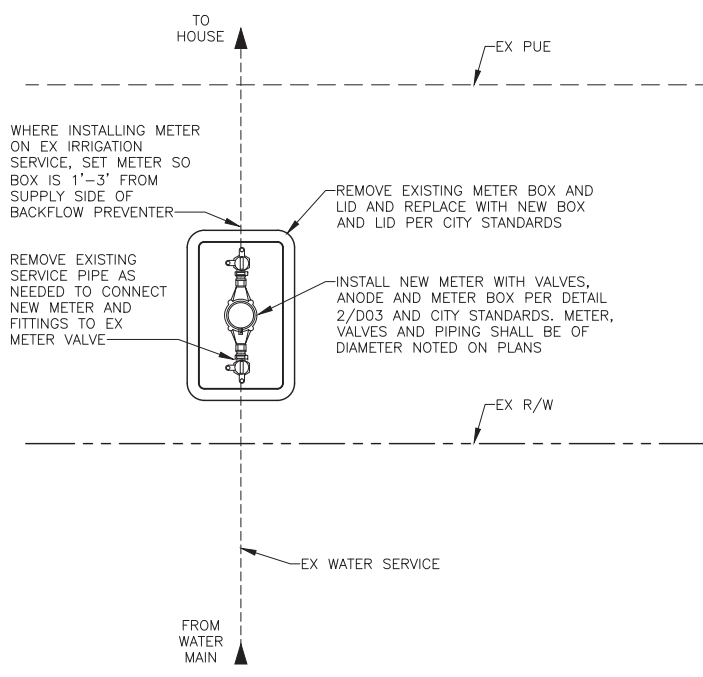
METER SIZE	BOX SIZE	LANDSCAPED AREAS	TRAFFIC AREAS
3/4" 1"	13" x 24" inside dimensions	OLDCASTLE: BOX: FL30TBOX LID: FL30T	OLDCASTLE: BOX: B1324, H20 Loading, LID: B1324-51GH, Flush mount, Steel Checker Plate, 10,000# design load or Fibrelyte lid.
1 1/2" 2"	17" x 30" inside dimensions	OLDCASTLE: BOX: FL30TBOX LID: FL30T	OLDCASTLE: BOX: B1730, H20 Loading LID: B1730-51GH, Steel Checker
3"	30" x 48" inside dimensions	OLDCASTLE: BOX: N48BOX LID: B48-62G	OLDCASTLE: BOX: B3048, H20 Loading LID: B3048-53JH, Steel Checker
4"	30" x 48" inside dimensions	OLDCASTLE: BOX: N48BOX LID: B48-62G	OLDCASTLE: BOX: B3048, H20 Loading LID: B3048-53JH, Steel Checker
6"+	Designed by private Engineer, reviewed and approved by City Engineer. Box and lid must conform to AASHTO H20 criteria in traffic loading situations.		

- METER BOX AND LID NOTES:**
- All box knock-outs for lines shall be left in place for 1", 1 1/2" and 2" meter sizes. Service lines shall be placed under lowest edge of boxes and any extensions.
  - Stainless Steel pentagon-head bolts (5-sided) shall be provided with lids for 3/4" through 2" boxes in landscaped areas. Normal bolts shall be provided with traffic boxes when applicable.
  - For N30 concrete boxes, steel lid or traffic rated Fibrelyte Lid is required for 3/4" and 1" services in driveways, sidewalks, concrete or other paved hard surfaces.
  - Makes and models by Oldcastle Precast, as shown in the table above are approved for use. Equivalent boxes/lids by other manufacturers will be allowed subject to City Engineer review and approval. Plastic or Fibrelyte boxes/lids shall be green in color.
  - Per standard specifications, allowable service line sizes are 1", 1 1/2", 2" or 4" and larger. Meter size may be smaller than service line depending on flow demands.
  - Lids shall have one 1 1/4" diameter hole for touch read device installation (T.R. device installation by City).
  - Traffic boxes for 1 1/2" and larger services installed in A.C. pavement, or other hard surfaces shall have 12" deep by 12" wide concrete collar constructed around the exterior of the box per Standard Plan 201-2 (indicated as TOP BLOCK on Sheet 1 of 201-2).

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
<b>WATER METER - BOXES AND LIDS</b>					
APPROVED <i>[Signature]</i> July 11 20 17		DIANNA R. JENSEN P.E. No. C-56636			
SHEET 6 OF 6		101-6			



CASE 1: NO EXISTING METER BOX



CASE 2: WITH EXISTING METER BOX

METER INSTALLATION ON EXISTING WATER SERVICES

DETAIL 4  
TYP  
NOT TO SCALE

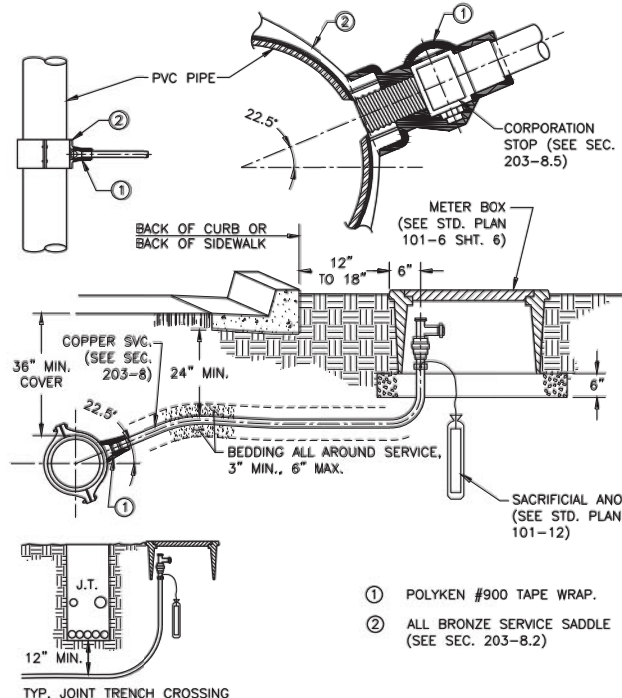
DESIGNED <u>AJU</u>					
DRAWN <u>JRR</u>					
CHECKED <u>KLW</u>					
	NO.	BY	DATE	REVISION	APP'D DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

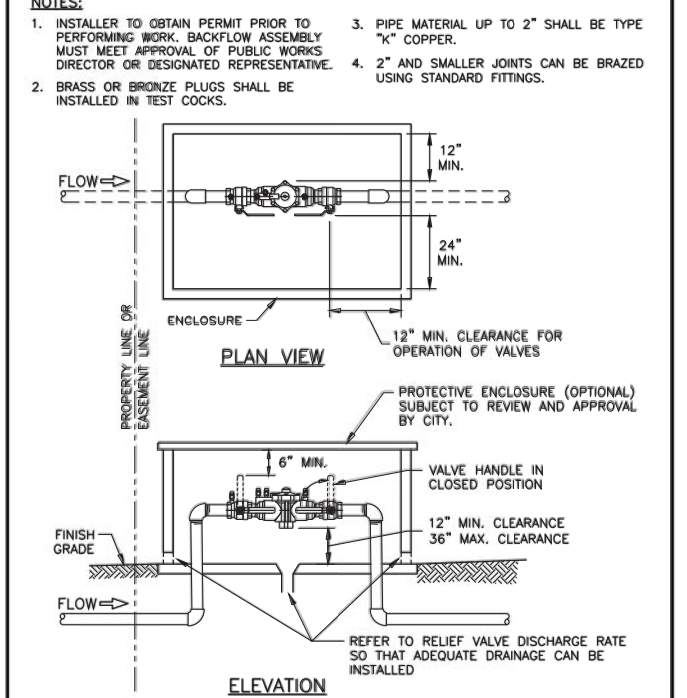
**WEST YOST ASSOCIATES**  
2020 Research Park Drive Suite 100 Davis, California 95618 (530) 756-5905 FAX (530) 756-5991

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT  
WATER SERVICE DETAILS

SCALE  
AS SHOWN  
DATE: 12/06/2018  
DWG NO  
D03  
SHEET NO  
7 of 36



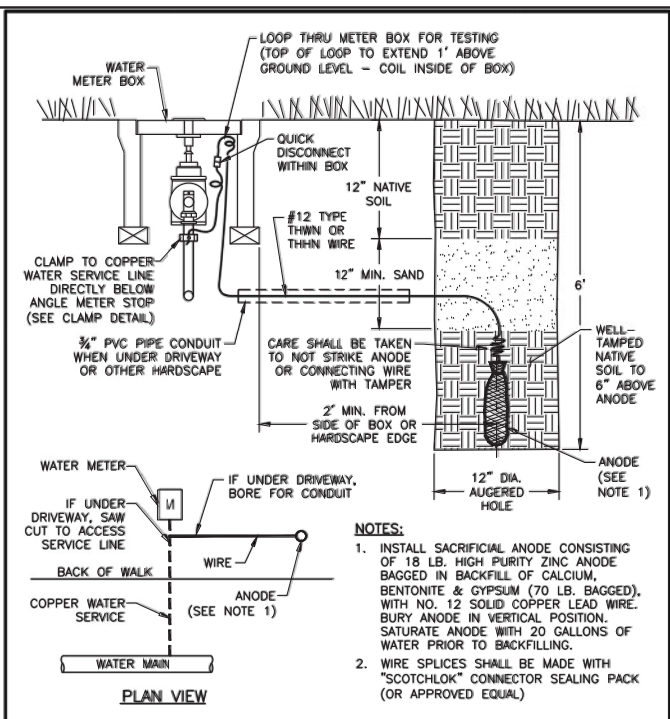
Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
<b>WATER SERVICE UP TO 2" SERVICE TAP OF PVC PIPE</b>					
APPROVED <i>[Signature]</i> July 11 20 17		DIANNA R. JENSEN P.E. No. C-56636			
SHEET 1 OF 3		101-5			



Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
<b>BACKFLOW PREVENTION - ASSEMBLY LAYOUT</b>					
APPROVED <i>[Signature]</i> July 11 20 17		DIANNA R. JENSEN P.E. No. C-56636			
SHEET 1 OF 2		101-11			

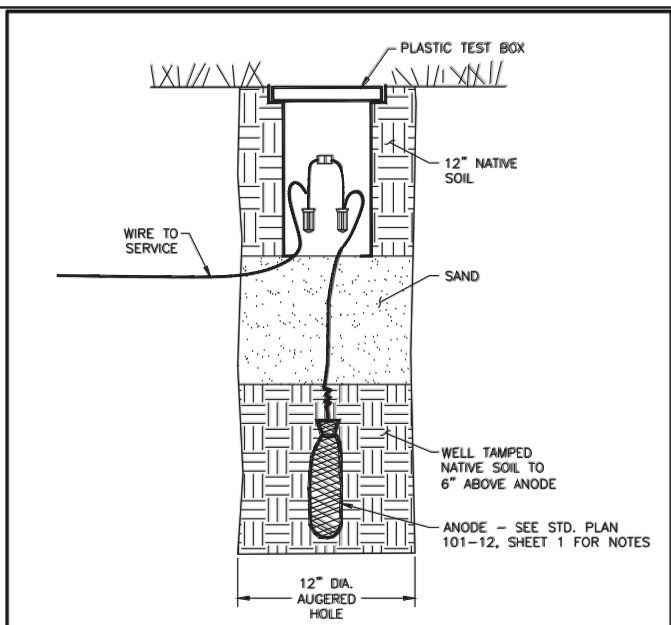
BID DOCUMENTS

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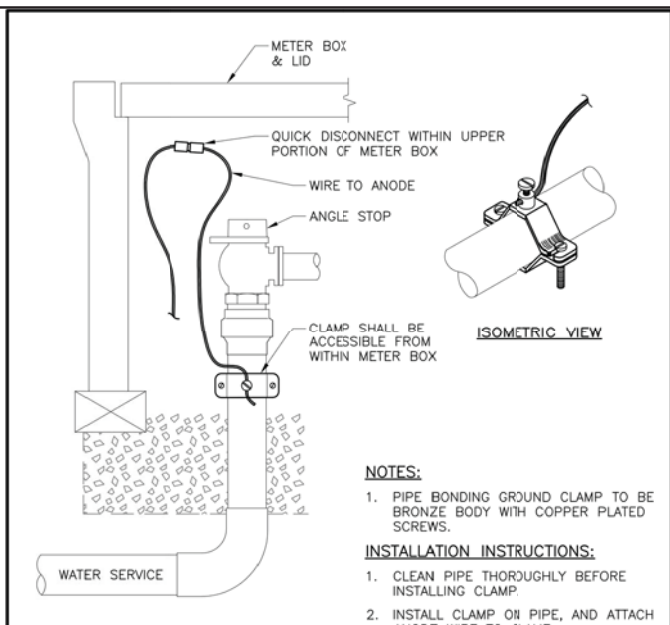
- NOTES:**
- INSTALL SACRIFICIAL ANODE CONSISTING OF 18 LB. HIGH PURITY ZINC ANODE BAGGED IN BACKFILL OF CALCIUM, BENTONITE & GYPSUM (70 LB. BAGGED), WITH NO. 12 SOLID COPPER LEAD WIRE. BURY ANODE IN VERTICAL POSITION. SATURATE ANODE WITH 20 GALLONS OF WATER PRIOR TO BACKFILLING.
  - WIRE SPLICES SHALL BE MADE WITH "SCOTCHLOK" CONNECTOR SEALING PACK (OR APPROVED EQUAL).

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
APPROVED July 11 20 17			APPROVED July 11 20 17		
DIANNA R. JENSEN			DIANNA R. JENSEN		
P.E. No. C-56636			P.E. No. C-56636		
SHEET 1 OF 3			SHEET 1 OF 3		
101-12			101-12		



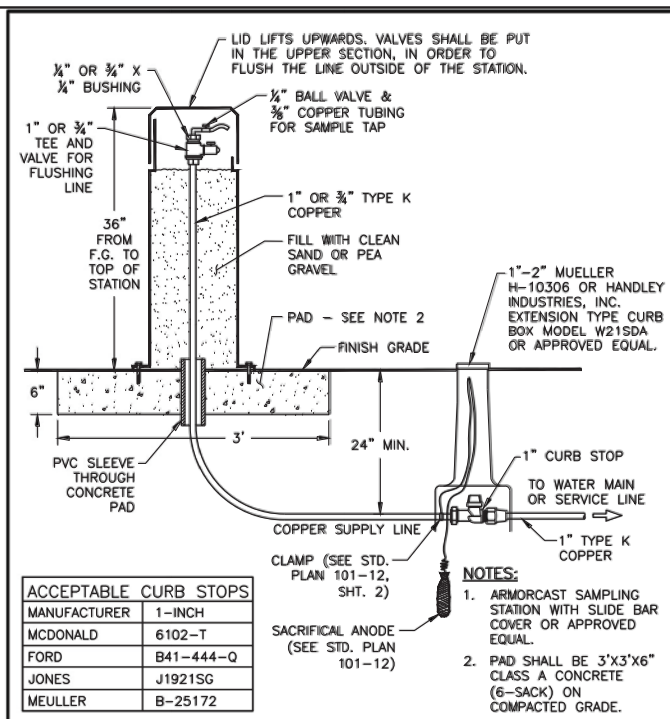
- NOTE:**
- SPLICE WIRES WITH "SCOTCHLOK" CONNECTOR SEALING PACK (OR APPROVED EQUAL).

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
APPROVED July 11 20 17			APPROVED July 11 20 17		
DIANNA R. JENSEN			DIANNA R. JENSEN		
P.E. No. C-56636			P.E. No. C-56636		
SHEET 2 OF 3			SHEET 2 OF 3		
101-12			101-12		



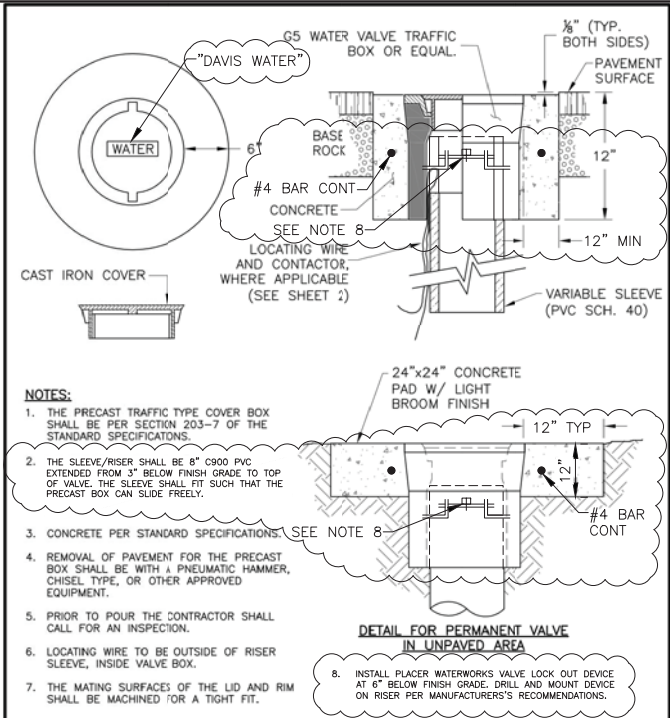
- NOTES:**
- PIPE BONDING GROUND CLAMP TO BE BRONZE BODY WITH COPPER PLATED SCREWS.
- INSTALLATION INSTRUCTIONS:**
- CLEAN PIPE THOROUGHLY BEFORE INSTALLING CLAMP.
  - INSTALL CLAMP ON PIPE, AND ATTACH ANODE WIRE TO CLAMP.
  - WRAP ENTIRE CONNECTION ASSEMBLY WITH VINYL ELECTRICAL TAPE, THEN WITH ELECTRICAL PUTTY TAPE.
  - COAT WITH MASTIC.

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
APPROVED July 11 20 17			APPROVED July 11 20 17		
DIANNA R. JENSEN			DIANNA R. JENSEN		
P.E. No. C-56636			P.E. No. C-56636		
SHEET 3 OF 3			SHEET 3 OF 3		
101-12			101-12		



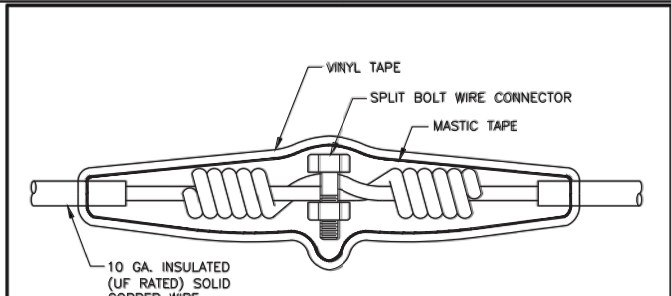
- ACCEPTABLE CURB STOPS**
- | MANUFACTURER | 1-INCH    |
|--------------|-----------|
| MCDONALD     | 6102-T    |
| FORD         | B41-444-Q |
| JONES        | J1921SG   |
| MEULLER      | B-25172   |
- NOTES:**
- ARMORCAST SAMPLING STATION WITH SLIDE BAR COVER OR APPROVED EQUAL.
  - PAD SHALL BE 3'x3'x6" CLASS A CONCRETE (6-SACK) ON COMPACTED GRADE.

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
APPROVED July 11 20 17			APPROVED July 11 20 17		
DIANNA R. JENSEN			DIANNA R. JENSEN		
P.E. No. C-56636			P.E. No. C-56636		
SHEET 1 OF 1			SHEET 1 OF 1		
101-10			101-10		



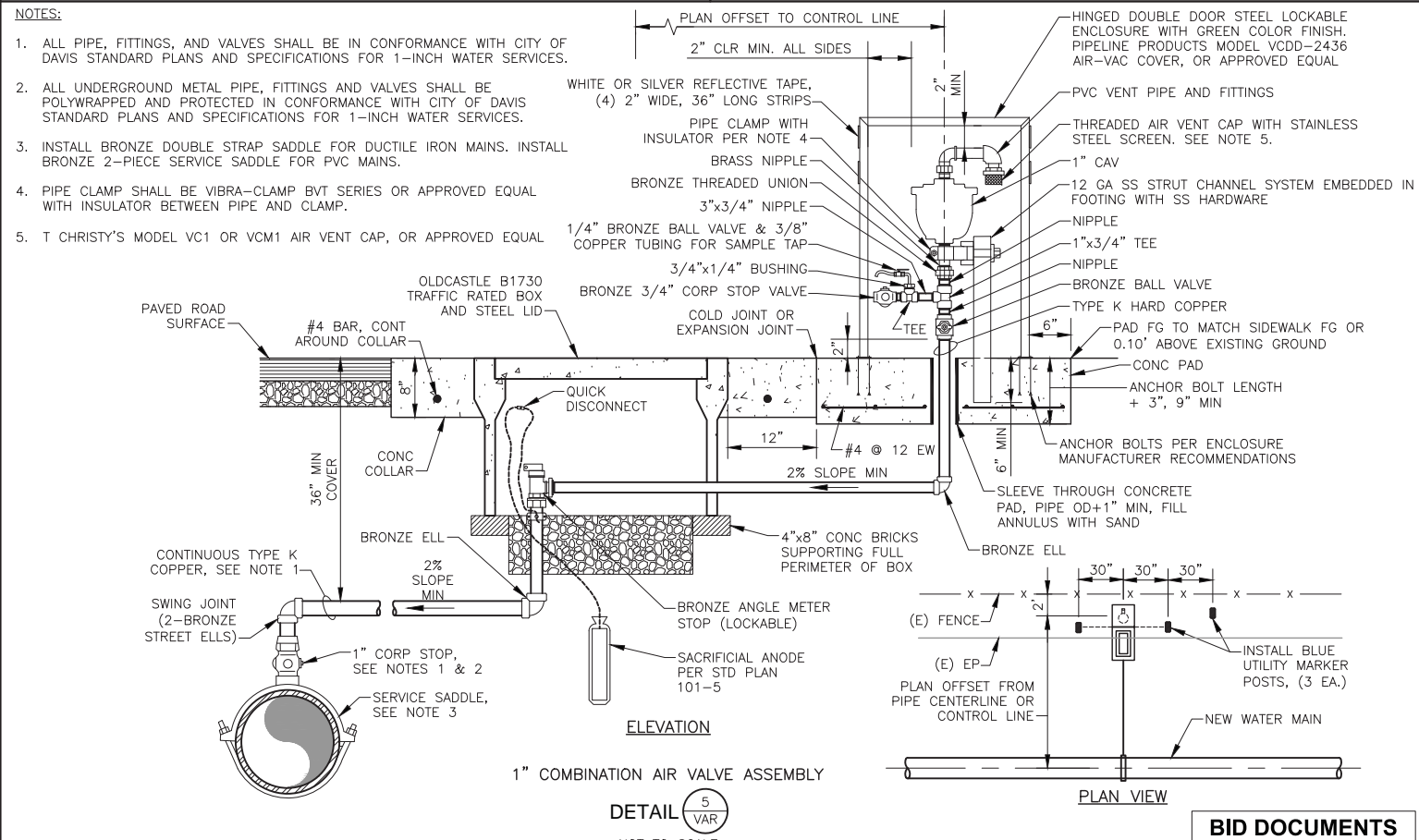
- NOTES:**
- THE PRECAST TRAFFIC TYPE COVER BOX SHALL BE PER SECTION 203-7 OF THE STANDARD SPECIFICATIONS.
  - THE SLEEVE/RISER SHALL BE 8" C900 PVC EXTENDED FROM 3" BELOW FINISH GRADE TO TOP OF VALVE. THE SLEEVE SHALL FIT SUCH THAT THE PRECAST BOX CAN SLIDE FREELY.
  - CONCRETE PER STANDARD SPECIFICATIONS. SEE NOTE 8.
  - REMOVAL OF PAVEMENT FOR THE PRECAST BOX SHALL BE WITH A PNEUMATIC HAMMER, CHISEL TYPE, OR OTHER APPROVED EQUIPMENT.
  - PRIOR TO POUR THE CONTRACTOR SHALL CALL FOR AN INSPECTION.
  - LOCATING WIRE TO BE OUTSIDE OF RISER SLEEVE, INSIDE VALVE BOX.
  - THE MATING SURFACES OF THE LID AND RIM SHALL BE MACHINED FOR A TIGHT FIT.
  - INSTALL PLACER WATERWORKS VALVE LOCK OUT DEVICE AT 6" BELOW FINISH GRADE. DRILL AND MOUNT DEVICE ON RISER PER MANUFACTURER'S RECOMMENDATIONS.

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
APPROVED July 11 20 17			APPROVED July 11 20 17		
DIANNA R. JENSEN			DIANNA R. JENSEN		
P.E. No. C-56636			P.E. No. C-56636		
SHEET 1 OF 2			SHEET 1 OF 2		
101-3			101-3		



- NOTES:**
- TWIST THE WIRE A MINIMUM OF FIVE TIMES ON EACH END.
  - INSTALL COPPER SPLIT BOLT CONNECTOR.
  - WIRE SPLICE TO BE SOLDERED.
  - COVER THE ENTIRE SPLICE WITH MASTIC TAPE WRAP.
  - WRAP MASTIC WITH VINYL TAPE.
  - WIRE SPLICES, WHERE NEEDED, SHALL BE LOCATED WITHIN A VALVE BOX PER STANDARD PLAN 101-03.

Rev.	Description	Date	Rev.	Description	Date
<b>CITY OF DAVIS STANDARD PLAN</b>					
APPROVED July 11 20 17			APPROVED July 11 20 17		
DIANNA R. JENSEN			DIANNA R. JENSEN		
P.E. No. C-56636			P.E. No. C-56636		
SHEET 2 OF 2			SHEET 2 OF 2		
101-3			101-3		



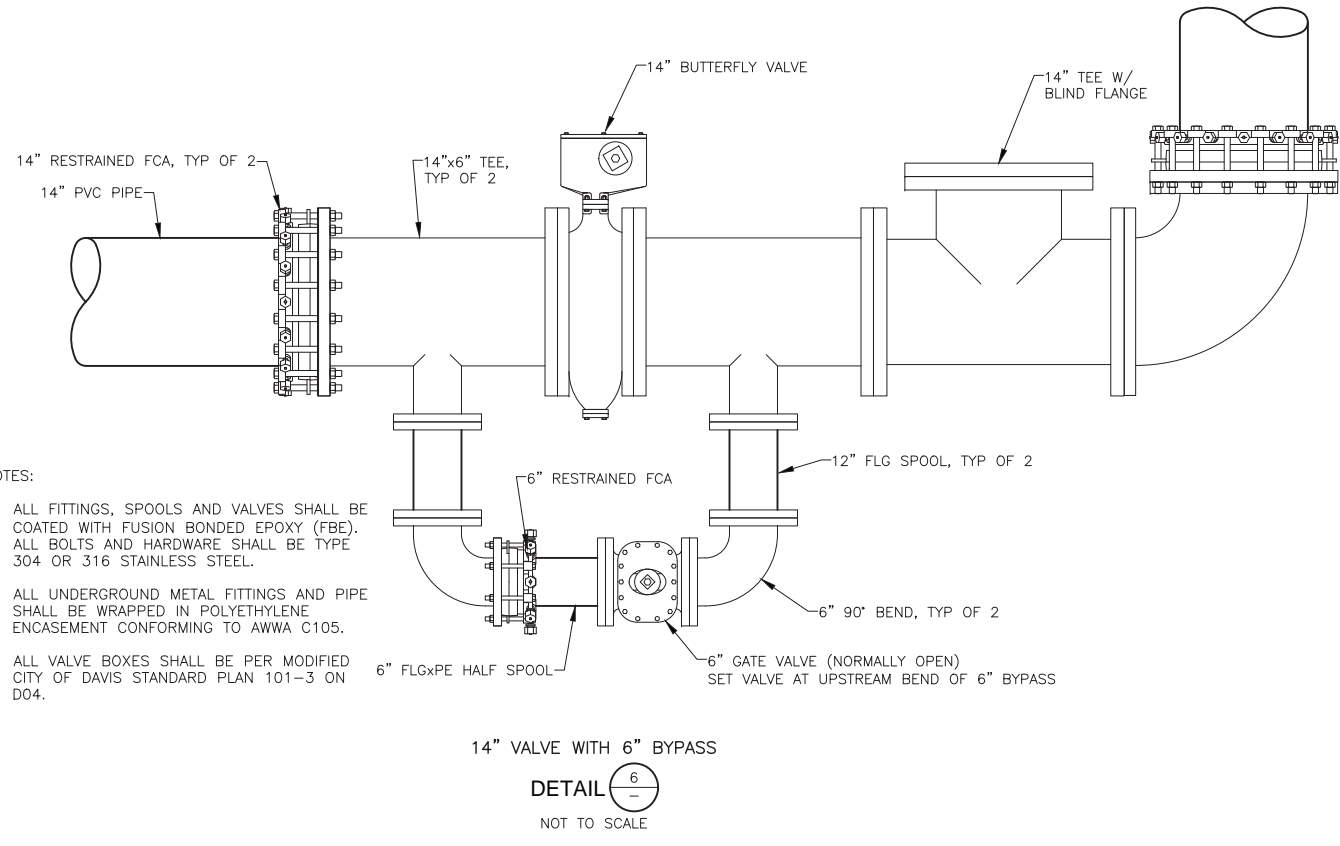
- NOTES:**
- ALL PIPE, FITTINGS, AND VALVES SHALL BE IN CONFORMANCE WITH CITY OF DAVIS STANDARD PLANS AND SPECIFICATIONS FOR 1-INCH WATER SERVICES.
  - ALL UNDERGROUND METAL PIPE, FITTINGS AND VALVES SHALL BE POLYWRAPPED AND PROTECTED IN CONFORMANCE WITH CITY OF DAVIS STANDARD PLANS AND SPECIFICATIONS FOR 1-INCH WATER SERVICES.
  - INSTALL BRONZE DOUBLE STRAP SADDLE FOR DUCTILE IRON MAINS. INSTALL BRONZE 2-PIECE SERVICE SADDLE FOR PVC MAINS.
  - PIPE CLAMP SHALL BE VIBRA-CLAMP BVT SERIES OR APPROVED EQUAL WITH INSULATOR BETWEEN PIPE AND CLAMP.
  - T CHRISTY'S MODEL VC1 OR VCM1 AIR VENT CAP, OR APPROVED EQUAL

- NOTES:**
- WHITE OR SILVER REFLECTIVE TAPE, (4) 2" WIDE, 36" LONG STRIPS
  - PIPE CLAMP WITH INSULATOR PER NOTE 4
  - BRASS NIPPLE
  - BRONZE THREADED UNION
  - 3"x3/4" NIPPLE
  - 1/4" BRONZE BALL VALVE & 3/8" COPPER TUBING FOR SAMPLE TAP
  - 3/4"x1/4" BUSHING
  - BRONZE 3/4" CORP STOP VALVE
  - COLD JOINT OR EXPANSION JOINT
  - OLDCASTLE B1730 TRAFFIC RATED BOX AND STEEL LID
  - #4 BAR, CONT AROUND COLLAR
  - QUICK DISCONNECT
  - CONC COLLAR
  - 36" MIN COVER
  - CONTINUOUS TYPE K COPPER, SEE NOTE 1
  - SWING JOINT (2-BRONZE STREET ELLS)
  - 1" CORP STOP, SEE NOTES 1 & 2
  - SERVICE SADDLE, SEE NOTE 3
  - BRONZE ELL
  - 2% SLOPE MIN
  - 4"x8" CONC BRICKS SUPPORTING FULL PERIMETER OF BOX
  - BRONZE ANGLE METER STOP (LOCKABLE)
  - SACRIFICIAL ANODE PER STD PLAN 101-5
  - 1" COMBINATION AIR VALVE ASSEMBLY
  - HINGED DOUBLE DOOR STEEL LOCKABLE ENCLOSURE WITH GREEN COLOR FINISH. PIPELINE PRODUCTS MODEL VCDD-2436 AIR-VAC COVER, OR APPROVED EQUAL
  - PVC VENT PIPE AND FITTINGS
  - THREADED AIR VENT CAP WITH STAINLESS STEEL SCREEN. SEE NOTE 5.
  - 1" CAV
  - 12 GA SS STRUT CHANNEL SYSTEM EMBEDDED IN FOOTING WITH SS HARDWARE
  - NIPPLE
  - 1"x3/4" TEE
  - NIPPLE
  - BRONZE BALL VALVE
  - TYPE K HARD COPPER
  - 6" PAD FG TO MATCH SIDEWALK FG OR 0.10' ABOVE EXISTING GROUND
  - CONC PAD
  - ANCHOR BOLT LENGTH + 3", 9" MIN
  - ANCHOR BOLTS PER ENCLOSURE MANUFACTURER RECOMMENDATIONS
  - SLEEVE THROUGH CONCRETE PAD, PIPE OD+1" MIN, FILL ANNULUS WITH SAND
  - BRONZE ELL
  - INSTALL BLUE UTILITY MARKER POSTS, (3 EA.)
  - PLAN OFFSET FROM PIPE CENTERLINE OR CONTROL LINE
  - NEW WATER MAIN

DESIGNED <u>AJU</u>	DRAWN <u>JRR</u>	CHECKED <u>KLW</u>	NO.	BY	DATE	REVISION	APP'D	DATE		
<p>DESIGN ENGINEER</p> <p>BY <u>ASA J. UTTERBACK</u></p> <p>ENGINEER'S NAME</p> <p>DATE <u>JANUARY 12, 2018</u> P.E. <u>C57700</u></p> <p>REGISTRATION EXPIRES <u>12/31/2019</u></p>										
<p><b>WEST YOST ASSOCIATES</b></p> <p>2020 Research Park Drive Suite 100 Davis, California 95618 (530) 756-5905 FAX (530) 756-5991</p>			<p>COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES</p> <p>IMPROVEMENT PLANS FOR</p> <p><b>NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT</b></p>			<p>SCALE</p> <p><b>AS SHOWN</b></p> <p>DATE: 12/06/2018</p>			<p>DWG NO</p> <p><b>D04</b></p> <p>SHEET NO</p> <p><b>8 of 36</b></p>	
<p>DETAILS 1</p>										

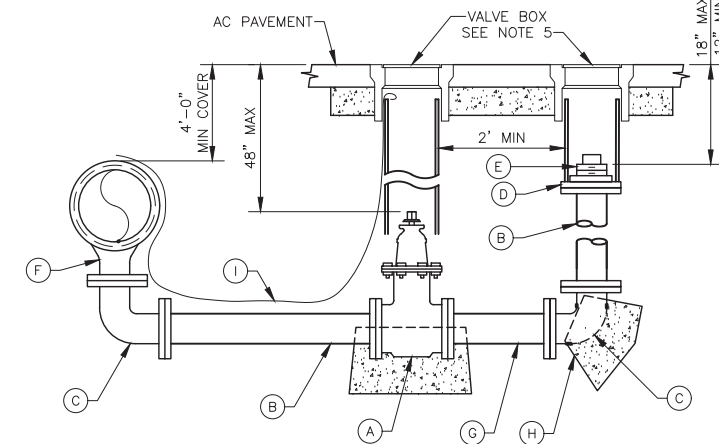


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- NOTES:
- ALL FITTINGS, SPOOLS AND VALVES SHALL BE COATED WITH FUSION BONDED EPOXY (FBE). ALL BOLTS AND HARDWARE SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
  - ALL UNDERGROUND METAL FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT CONFORMING TO AWWA C105.
  - ALL VALVE BOXES SHALL BE PER MODIFIED CITY OF DAVIS STANDARD PLAN 101-3 ON D04.

DETAIL 6  
NOT TO SCALE



- ITEM DESCRIPTION
- A. 4" FLG G.V. WITH 2" SQ. NUT, CLOSE CLOCKWISE
  - B. 4" D.I.P. SPOOL
  - C. 4" FLANGED 90°
  - D. 4" COMPANION FLANGE, FBE COATED
  - E. 4" BRONZE SCREW PLUG WITH NSF 61 COMPLIANT ANTI-SEIZE THREAD COMPOUND
  - F. MJ x MJ TO FLANGE REDUCING D.I. TEE
  - G. RESTRAIN 4" D.I.P. SPOOL TO RUN BEHIND SIDEWALK, IF APPLICABLE
  - H. THRUST BLOCK (USE THRUST BLOCK SIZE FOR 4" PIPE PER CITY STANDARD DRAWING 101-2)
  - I. TRACER WIRE

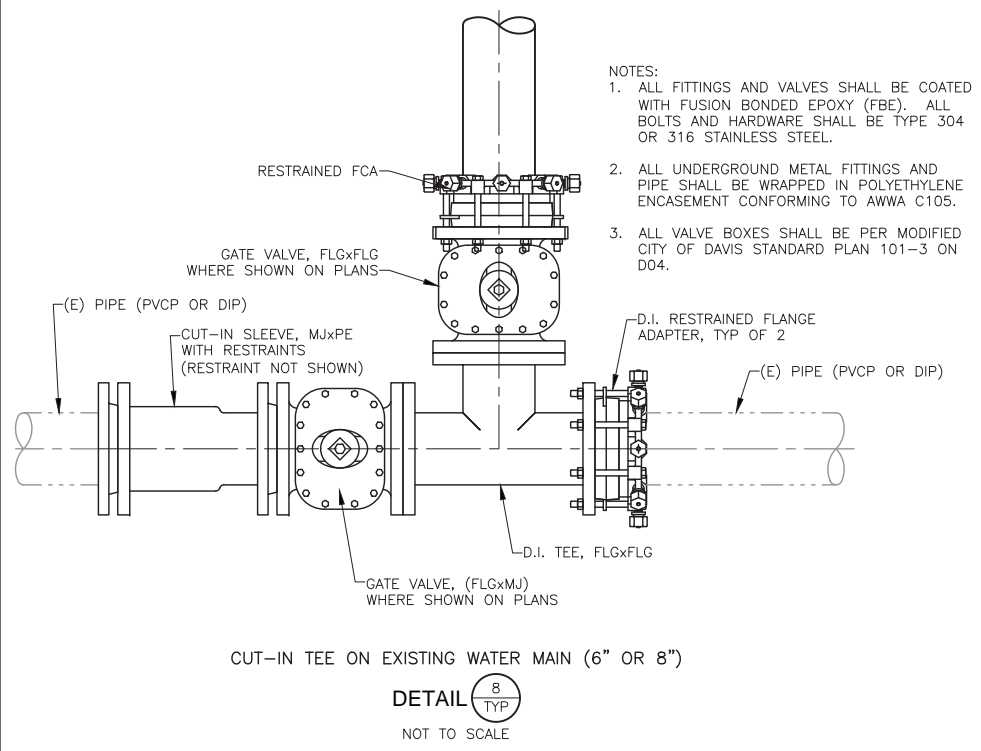
- NOTES:
- FOR SIZE OF BLOW-OFF ON MAINS LARGER THAN 16", CONSULT CITY ENGINEER.
  - COAT VALVE WITH FBE COATING AND POLYWRAP, SEE SPECIFICATIONS.
  - ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, OR APPROVED EQUAL. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS.
  - ALL DUCTILE IRON SPOOLS AND FITTINGS SHALL BE FBE COATED. POLYWRAP ALL FERROUS PIPE AND FITTINGS.
  - ALL VALVE BOXES SHALL BE PER MODIFIED CITY OF DAVIS STANDARD PLAN 101-3 ON D04.

DETAIL 7  
NOT TO SCALE

REQUIRED BEARING AREA - TOTAL SQUARE FEET							
FITTING TYPE	90° BEND	45° BEND	11 1/2° OR 22 1/2° BEND	TEE OR DEAD END	TEE W/ PLUG	CROSS W/ PLUG	CROSS W/ PLUGS
TYPICAL INSTALLATION							
PIPE SIZES	4"	6"	8"	10"	12"	14"	16"
	2	1	1	2	2	2	2
	4	2	1	3	4	4	4
	7	4	2	5	7	7	7
	12	6	3	8	12	12	12
	16	10	5	12	16	16	16

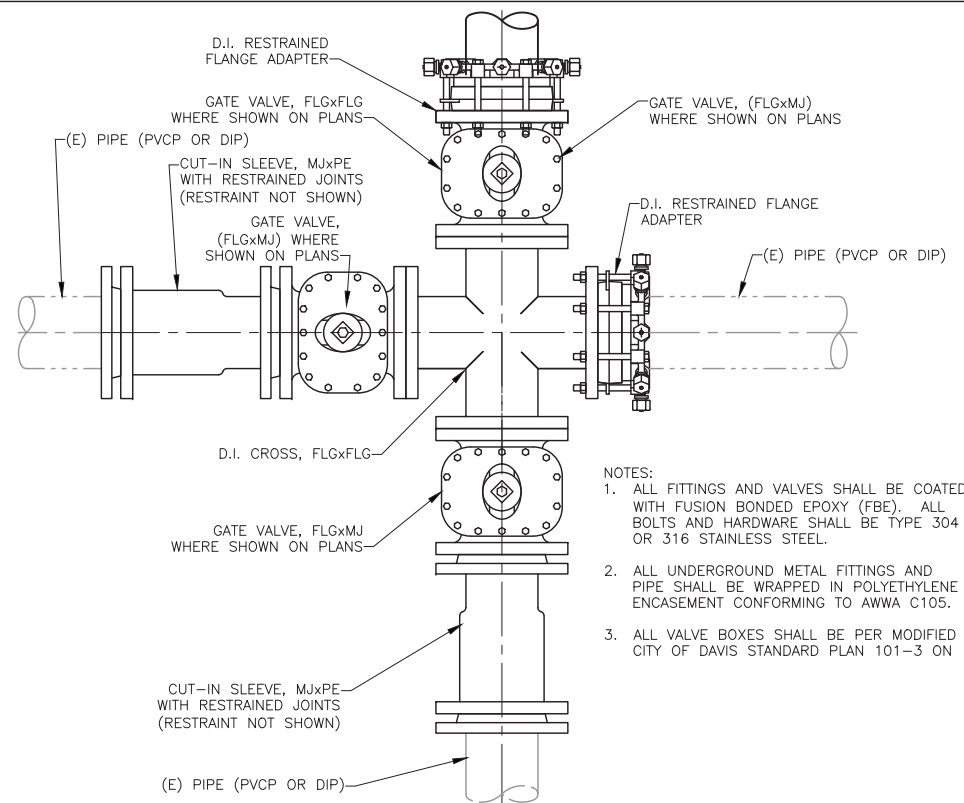
- NOTES:
- THRUST BLOCKS TO BE CONSTRUCTED OF CLASS "C" CONCRETE.
  - AREAS GIVEN ARE FOR CLASS 200 PIPE AT TEST PRESSURE OF 150 P.S.I. IN SOIL WITH 2,000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOLID TYPES SHOULD ADJUST AREAS ACCORDINGLY, SUBJECT TO APPROVAL OF ENGINEER.
  - BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
  - CONCRETE SHALL BE KEPT CLEAR OF JOINTS AND FACES OF PLUGS. ALL FITTINGS SHALL BE WRAPPED WITH 8 MIL. PLASTIC SO THAT CONCRETE DOES NOT CONTACT WATER MAIN.
  - THRUST BLOCKS NOT MEETING THIS DETAIL OR THE USE OF OTHER MEANS TO RESIST WATER HAMMER ACTION MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
  - THRUST BLOCKS SHALL NOT BE LOCATED OR SIZED TO ENCASE ADJACENT PIPES OR FITTINGS.
  - FOR PIPES LARGER THAN 12" CALCULATIONS SHALL BE SUBMITTED PRIOR TO DESIGN APPROVAL.

Rev.	Description	Date	Rev.	Description	Date
CITY OF DAVIS STANDARD PLAN					
APPROVED July 11 20 17					
GIANNA R. JENSEN					
P.E. No. C-56636					
THRUST BLOCK AREA FOR WATER MAINS					
SHEET 1 OF 1			101-2		



- NOTES:
- ALL FITTINGS AND VALVES SHALL BE COATED WITH FUSION BONDED EPOXY (FBE). ALL BOLTS AND HARDWARE SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
  - ALL UNDERGROUND METAL FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT CONFORMING TO AWWA C105.
  - ALL VALVE BOXES SHALL BE PER MODIFIED CITY OF DAVIS STANDARD PLAN 101-3 ON D04.

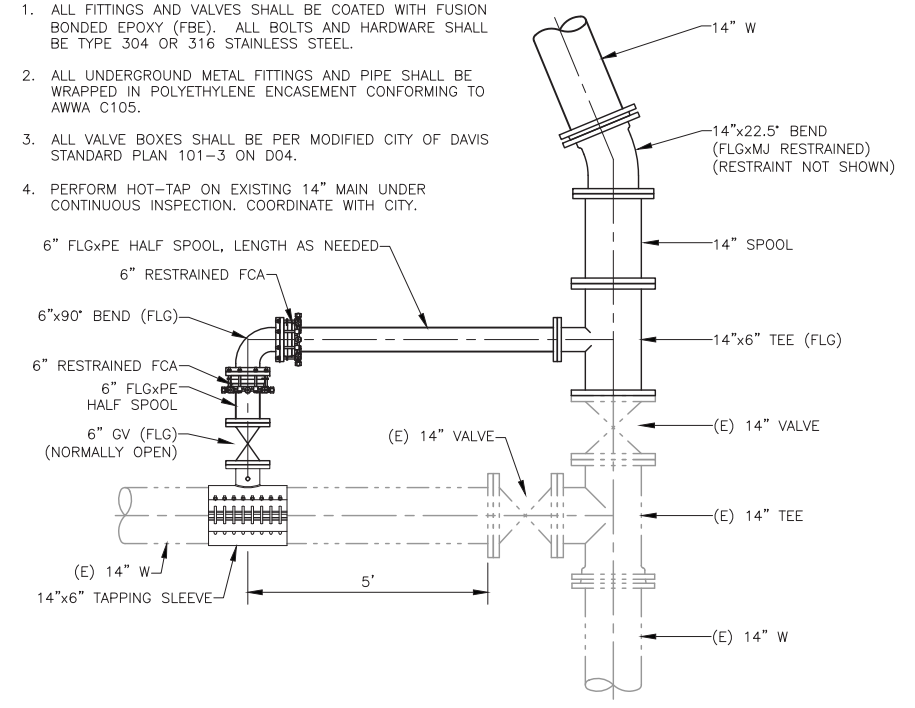
DETAIL 8  
NOT TO SCALE



- NOTES:
- ALL FITTINGS AND VALVES SHALL BE COATED WITH FUSION BONDED EPOXY (FBE). ALL BOLTS AND HARDWARE SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
  - ALL UNDERGROUND METAL FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT CONFORMING TO AWWA C105.
  - ALL VALVE BOXES SHALL BE PER MODIFIED CITY OF DAVIS STANDARD PLAN 101-3 ON D04.

DETAIL 9  
NOT TO SCALE

- NOTES:
- ALL FITTINGS AND VALVES SHALL BE COATED WITH FUSION BONDED EPOXY (FBE). ALL BOLTS AND HARDWARE SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
  - ALL UNDERGROUND METAL FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT CONFORMING TO AWWA C105.
  - ALL VALVE BOXES SHALL BE PER MODIFIED CITY OF DAVIS STANDARD PLAN 101-3 ON D04.
  - PERFORM HOT-TAP ON EXISTING 14" MAIN UNDER CONTINUOUS INSPECTION. COORDINATE WITH CITY.



DETAIL 10  
NOT TO SCALE

DESIGNED_AJU					
DRAWN_JRR					
CHECKED_KLW					
NO.	BY	DATE	REVISION	APP'D	DATE

DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
 DATE JANUARY 12, 2018 P.E. C57700  
 REGISTRATION EXPIRES 12/31/2019

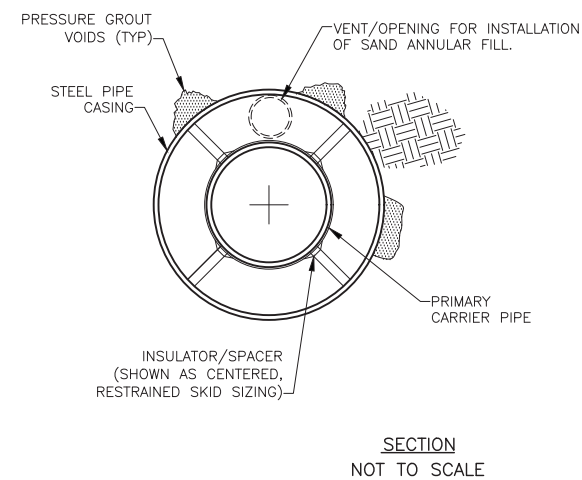
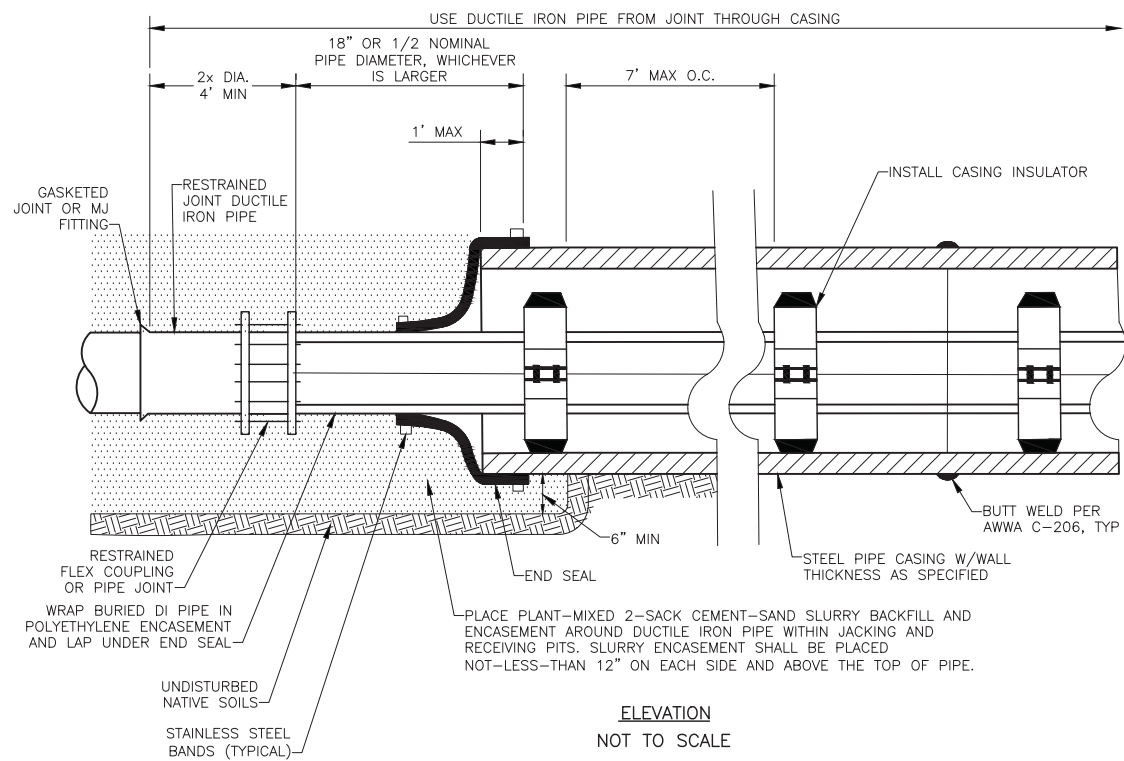
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 FAX (530) 756-5991

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT

SCALE AS SHOWN  
 DWG NO D05  
 DATE: 12/06/2018  
 SHEET NO 9 OF 36

BID DOCUMENTS

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**NOTES**

- CONTRACTOR SHALL TAKE CARE TO PLACE SAND ANNULAR FILL BETWEEN THE CARRIER PIPE(S) AND THE CASING WITHOUT DAMAGING OR DISPLACING THE INSTALLED CARRIER PIPE OR CONDUITS.
- CARRIER PIPE ELEVATIONS HAVE BEEN DESIGNED FOR CENTERED INSTALLATION OF THE CARRIER PIPE IN THE CASING. NON-CENTERED INSTALLATION MAY BE ALLOWED UPON APPROVAL OF THE ENGINEER. IF APPROVED, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING CARRIER PIPE DESIGN ELEVATIONS TO FIT THEIR NON-CENTERED INSTALLATION.
- INSULATORS/SPACERS SHALL BE INSTALLED SO THAT THE FIRST AND LAST SKIDS INSTALLED ARE LOCATED NO MORE THAN 12" FROM THE OPEN ENDS OF CASING.
- CASING INSULATOR SPACING SHALL NOT EXCEED SPACING RECOMMENDED BY INSULATOR MANUFACTURER.
- CONTRACTOR SHALL EXCAVATE JACKING AND RECEIVING PITS TO ALLOW CASING TO EXTEND AT LEAST 1' INTO PIT.
- CONTRACTOR SHALL CONTINUOUSLY MONITOR BORE CUTTINGS FOR NON-COHESIVE SOIL CHARACTERISTICS AND EXTRACTION VOLUME RELATIVE TO BORE PRODUCTION. IF NON-COHESIVE SOILS OR OTHER UNFORESEEN CONDITIONS ARE ENCOUNTERED WHICH COULD DESTABILIZE THE OVERLYING SOILS, CONTRACTOR SHALL IMMEDIATELY STOP THE BORE AND NOTIFY THE ENGINEER.
- CONTRACTOR SHALL SUBMIT A BORING PLAN FOR THE ENGINEER'S APPROVAL WHICH ACCOUNTS FOR THE SOIL CONDITIONS DESCRIBED IN THE GEOTECHNICAL SOIL REPORT PREPARED BY BLACKBURN CONSULTING FOR THIS WORK (COPY INCLUDED IN PROJECT SPECIFICATIONS).
- FILL ALL VOIDS OUTSIDE THE CASING RESULTING FROM THE BORE WITH PRESSURE-INJECTED SAND-CEMENT GROUT. CASING SHALL BE SUPPLIED WITH MANUFACTURED PORTS FOR GROUT INJECTION. INJECTION PORTS SHALL BE SPACED AS NEEDED TO COMPLETELY FILL THE VOIDS CAUSED BY THE BORE, BUT IN NO CASE SPACED GREATER THAN 8 FEET ON-CENTER AT THE CROWN OF THE CASING. CONTRACTOR SHALL LOG THE QUANTITIES OF GROUT INJECTED.
- CONTRACTOR SHALL ARRANGE PRE-JOB MEETING WITH THE STATE DOSH MINING AND TUNNELING UNIT AND CONFORM TO ALL REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH.

CASING/BORE	REQUIREMENT
CASING MATERIAL	ROLLED, WELDED STEEL IN ACCORDANCE WITH AWWA C200 AND WELDED PER AWWA C206. NO LINING OR COATING REQUIRED.
CASING DIAMETER	27" OD
CASING WALL THICKNESS	0.50" MIN
EXCAVATION CLASSIFICATION	NOT REQUIRED FOR BORE <30"
INSULATOR/SPACER	CALPICO M SERIES MODEL M-6-SS OR M-8-SS STAINLESS STEEL INSULATOR FOR 14" WATER PIPE. SIZE INSULATOR SKIDS FOR CENTERED RESTRAINED INSTALLATION OF CARRIER PIPE (14" DI WATER)
END SEAL	CALPICO MODEL "C" OR MODEL "W" END SEAL SECURED WITH STAINLESS STEEL STRAPS.
ANNULAR SPACE FILL	BLOWN SAND

CARRIER PIPES	PIPE TYPE	LOCATION: CR99D 301+53 TO 302+15
		SIZE/QUANTITY
CARRIER PIPE (POTABLE WATER)	RESTRAINED JOINT DUCTILE IRON PIPE PER AWWA C151 PRESSURE CLASS 250	14" DIAMETER / 1 EACH

**BORE AND JACK PIPE INSTALLATION**  
NO SCALE

**BORE AND JACK DATA**

BORE AND JACK PIPE INSTALLATION  
**DETAIL 11**  
C20  
NOT TO SCALE

DESIGNED <u>AJU</u>					
DRAWN <u>JRR</u>					
CHECKED <u>KLW</u>					
	NO.	BY	DATE	REVISION	APP'D DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT**

**SCALE AS SHOWN**

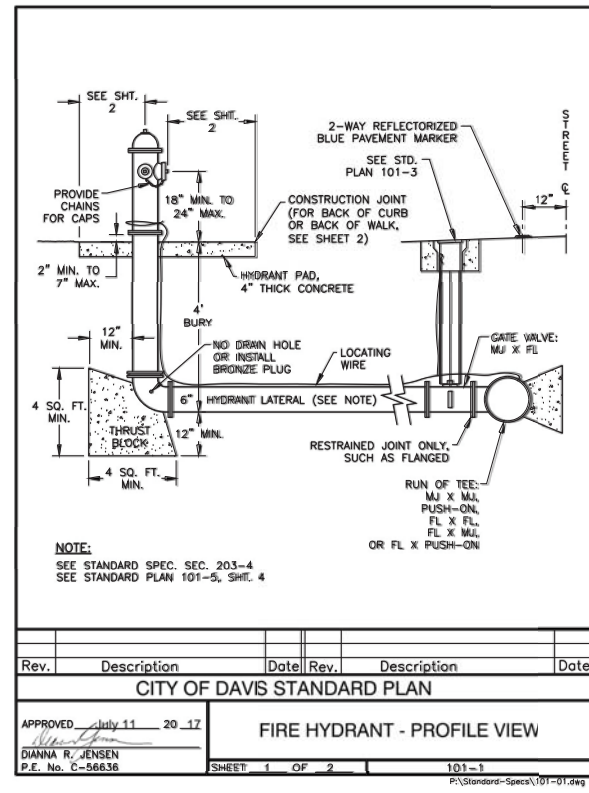
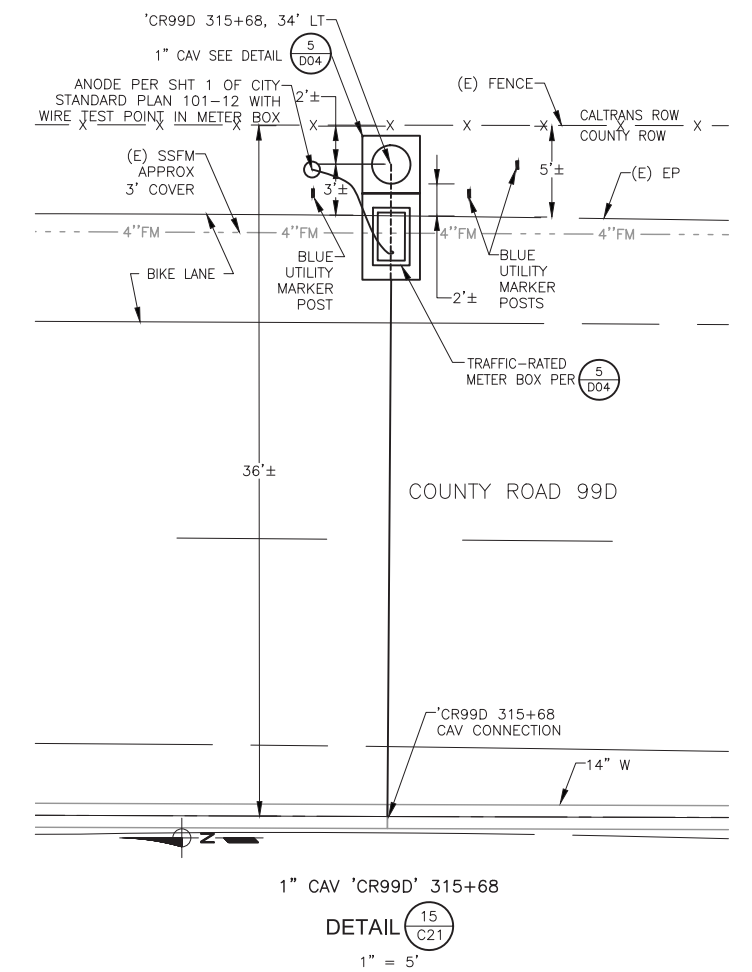
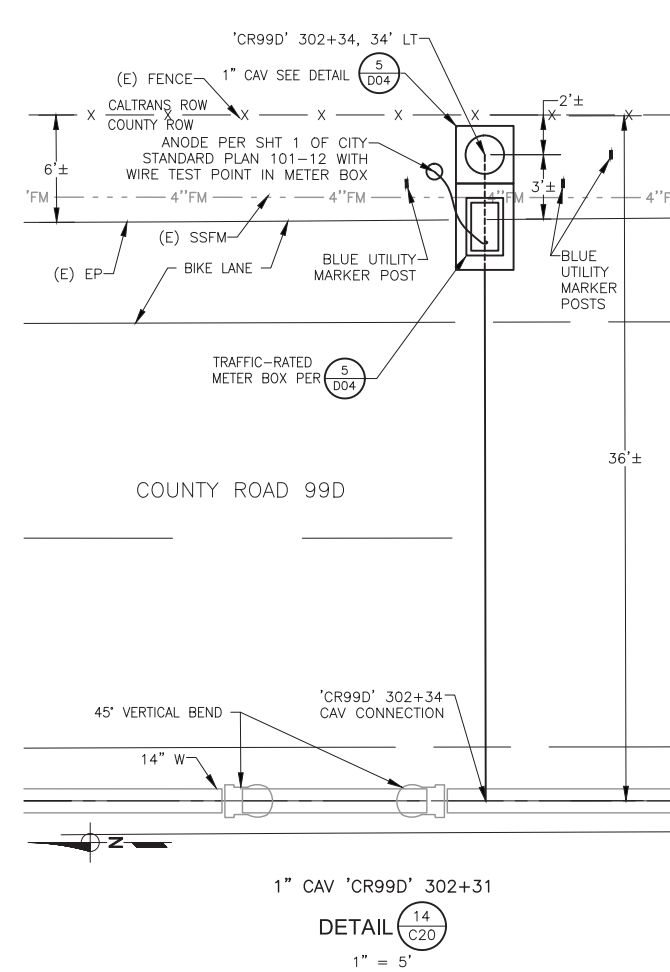
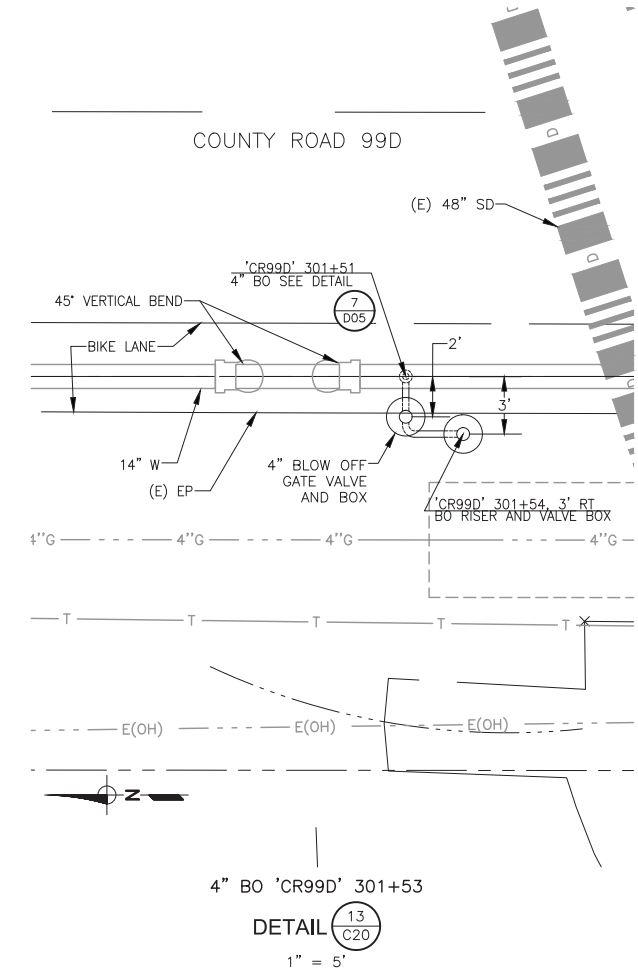
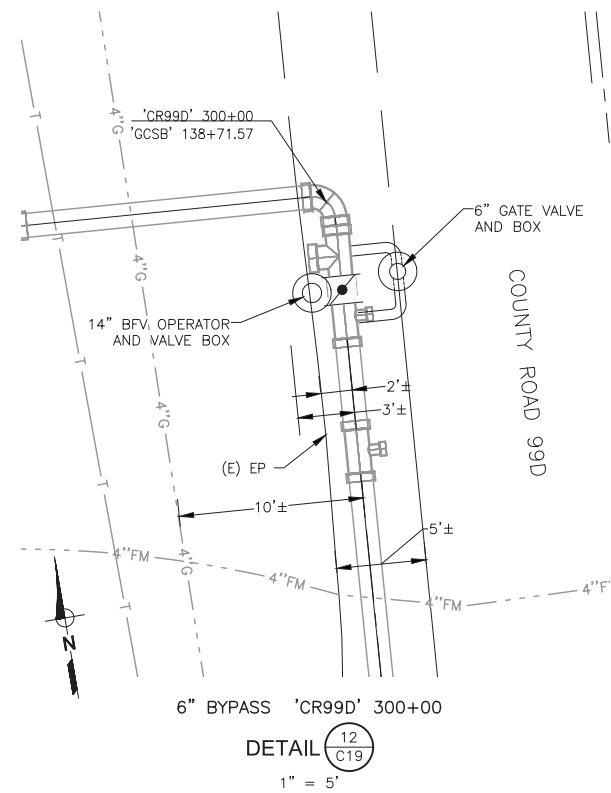
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**DETAILS 3**

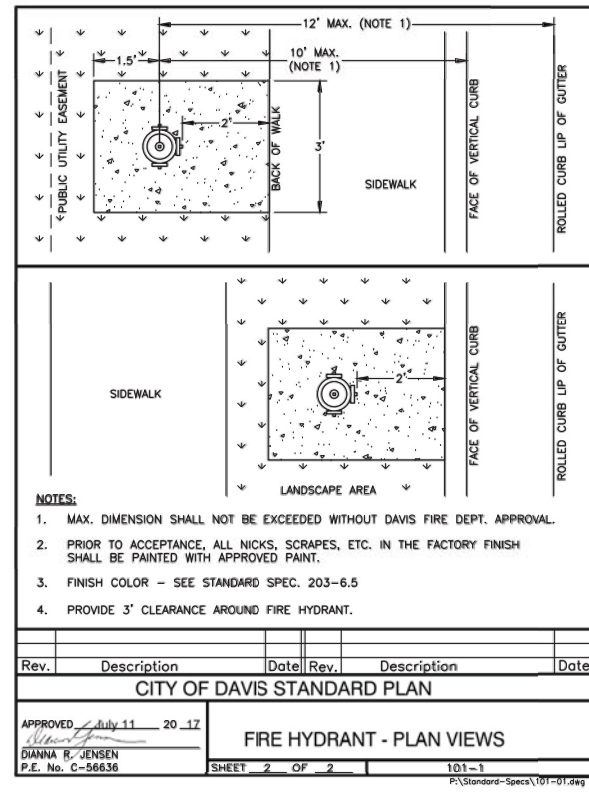
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SHEET NO **10 of 36**

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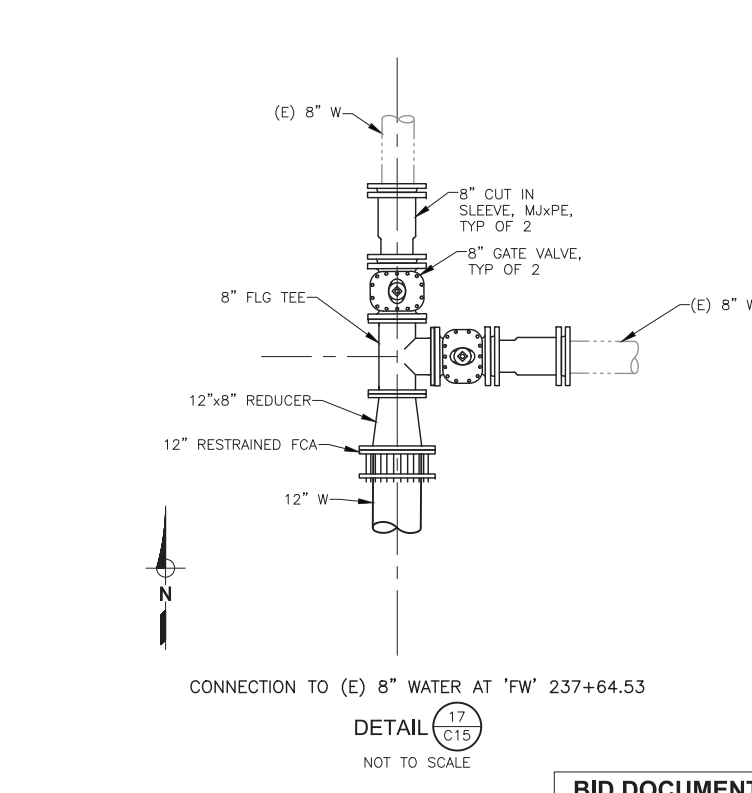
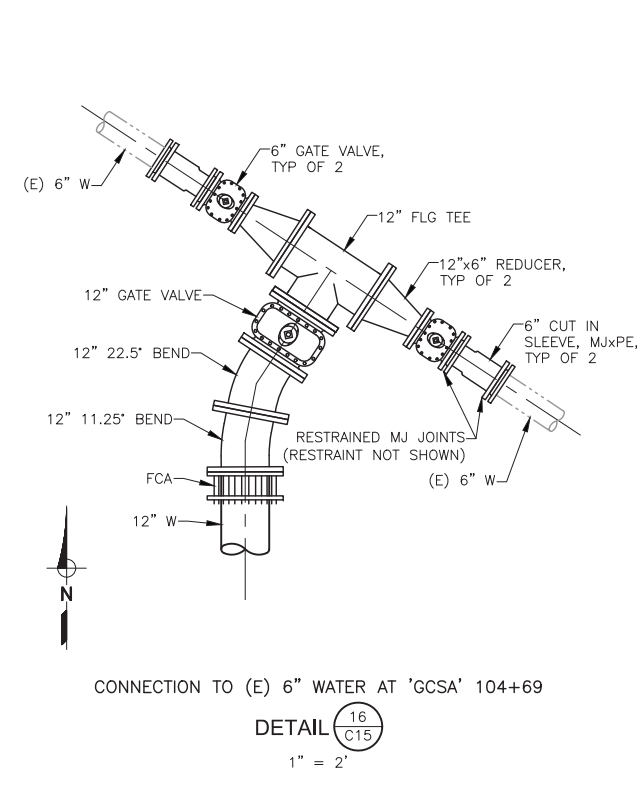
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Rev.	Description	Date	Rev.	Description	Date
CITY OF DAVIS STANDARD PLAN					
APPROVED July 11 20 17 DIANNA R. JENSEN P.E. No. C-56636					
FIRE HYDRANT - PROFILE VIEW					
SHEET 1 OF 2					



Rev.	Description	Date	Rev.	Description	Date
CITY OF DAVIS STANDARD PLAN					
APPROVED July 11 20 17 DIANNA R. JENSEN P.E. No. C-56636					
FIRE HYDRANT - PLAN VIEWS					
SHEET 2 OF 2					



DESIGNED	AJU				
DRAWN	JRR				
CHECKED	KLW				
NO.	BY	DATE	REVISION	APP'D	DATE

DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
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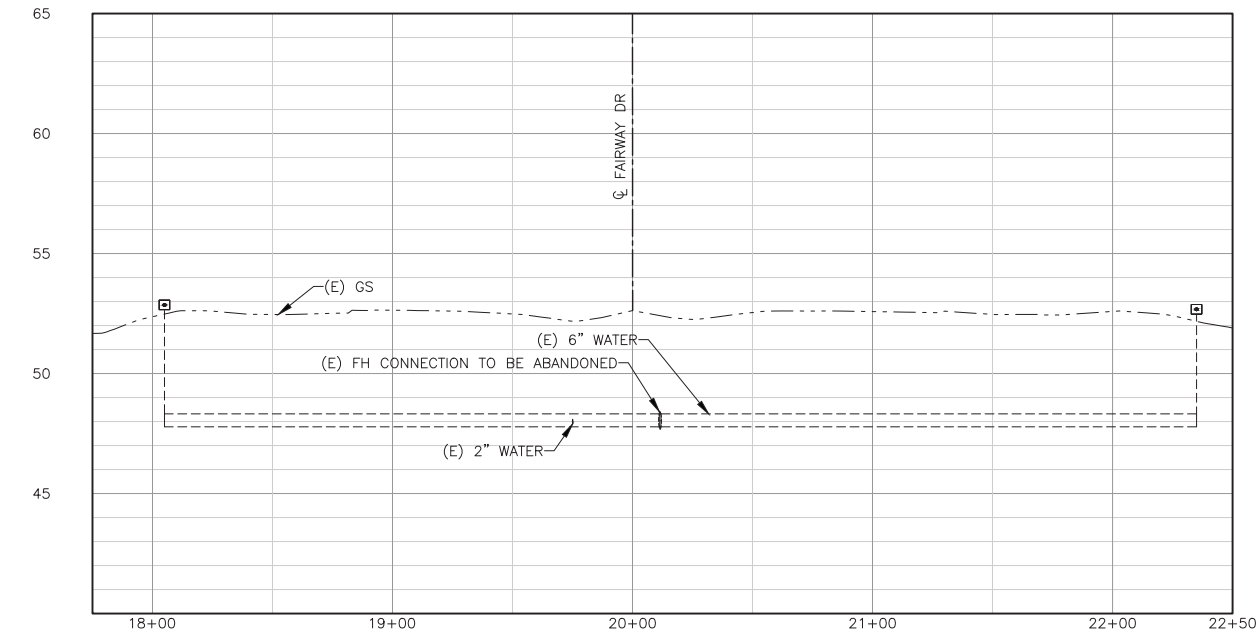
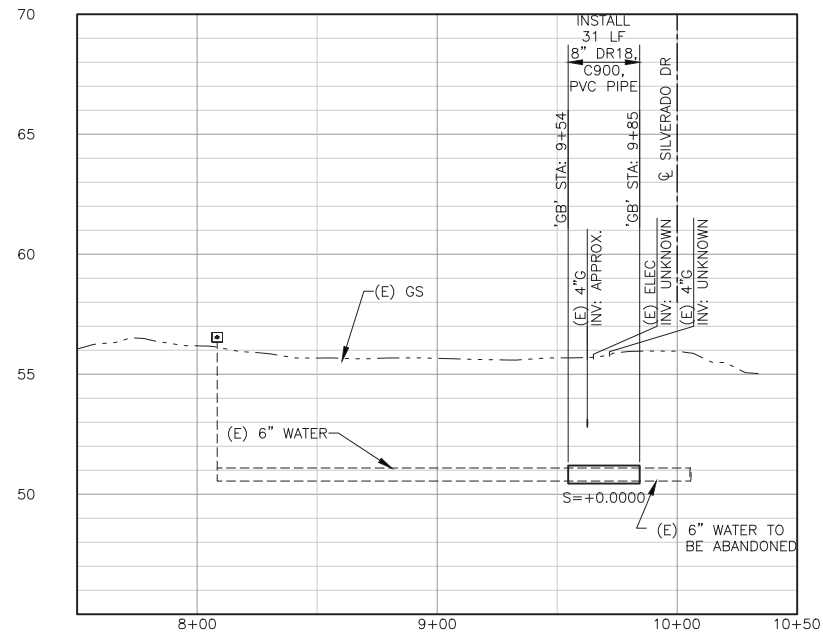
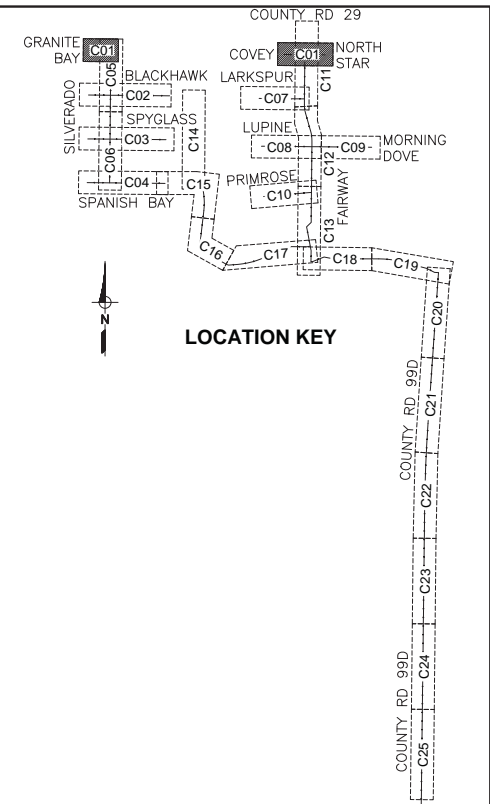
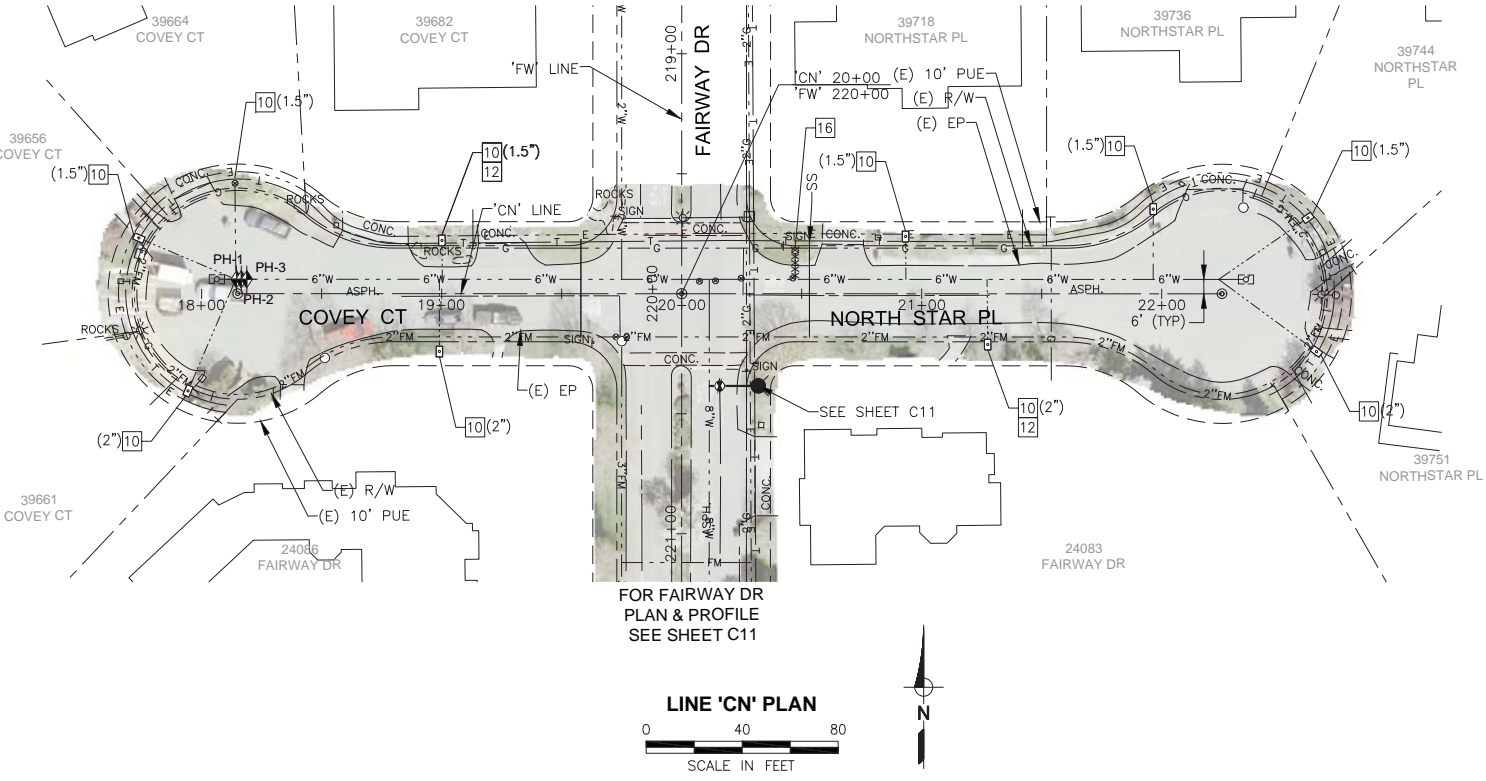
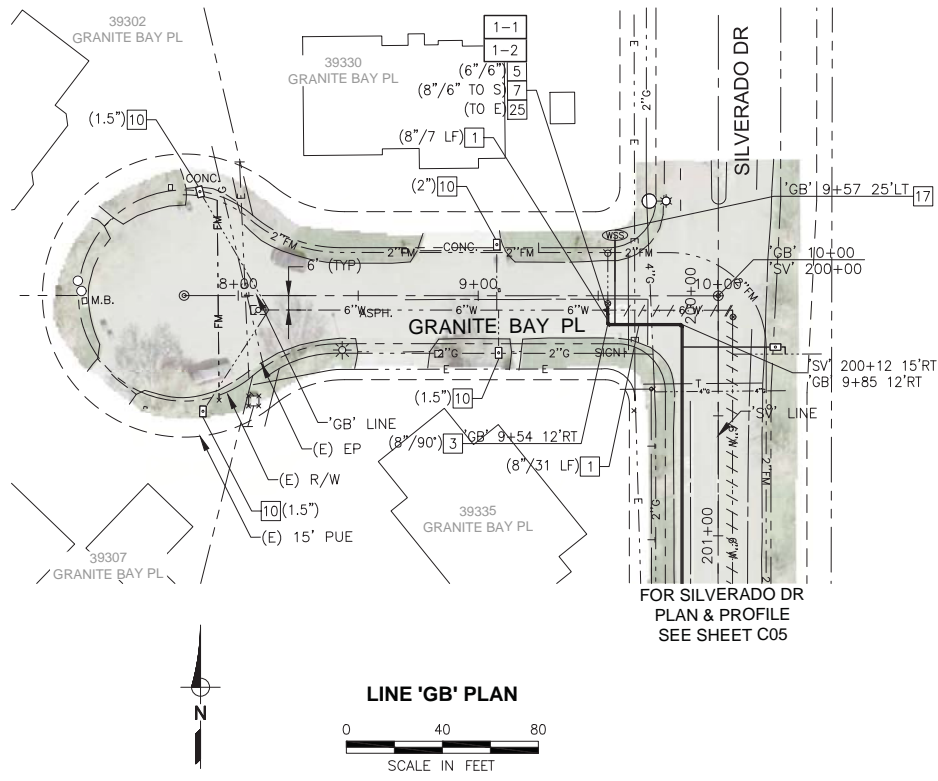
COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
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 CONSOLIDATION PROJECT

SCALE  
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 DATE: 12/06/2018  
 DWG NO  
 D07  
 SHEET NO  
 11 of 36

**BID DOCUMENTS**

DETAILS 4

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- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 2 INSTALL GATE VALVE (SIZE)
  - 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
  - 5 INSTALL TEE (SIZE/SIZE)
  - 7 INSTALL REDUCER (SIZE/SIZE)
  - 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
  - 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.
  - 14 INSTALL CUT-IN TEE PER DETAIL 8/SHT D05 (SIZE/SIZE)
  - 15 INSTALL NEW FIRE HYDRANT ASSEMBLY WITH CONCRETE ANCHOR PER CITY STANDARD PLAN 101-1. (SEE SHT D07)
  - 16 REMOVE EXISTING FIRE HYDRANT ASSEMBLY, LATERAL AND VALVE. INSTALL BLIND FLANGE WHERE VALVE WAS REMOVED
  - 17 INSTALL WATER SAMPLING STATION COMPLETE WITH 1-INCH SERVICE PER CITY OF DAVIS STD PLAN 101-10
  - 25 CUT, CAP AND ABANDON EXISTING DISCONNECTED WATER
- SPECIAL CONSTRUCTION NOTES:**
- 1-1 PROVIDE AND INSTALL ADDITIONAL TEMPORARY FITTINGS AND PIPING AS NEEDED FOR STAGED FILLING, TESTING AND CONNECTION. REMOVE ALL TEMPORARY MATERIALS AND MAKE FINAL CONNECTIONS UNDER FULL-TIME INSPECTION.
  - 1-2 REMOVE EXISTING TEE AND PIPE AS NEEDED TO CONNECT NEW WATER MAIN AS SHOWN. ALSO REMOVE AND RESET EXISTING 6" AUXILIARY HYDRANT VALVE AND FITTINGS AS NEEDED. CONNECT TO EXISTING HYDRANT LATERAL.

DESIGNED_AJU					
DRAWN_JRR					
CHECKED_KLW					
NO.	BY	DATE	REVISION	APP'D	DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

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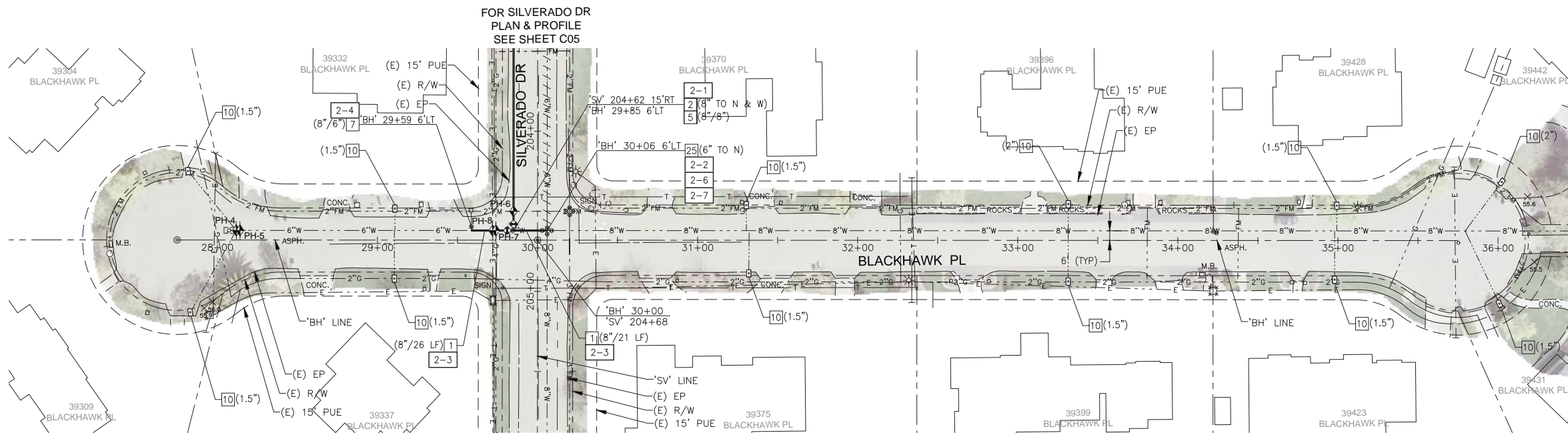
COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**

**GRANITE BAY PL - COVEY CT - NORTH STAR PL PLAN AND PROFILE**

**BID DOCUMENTS**

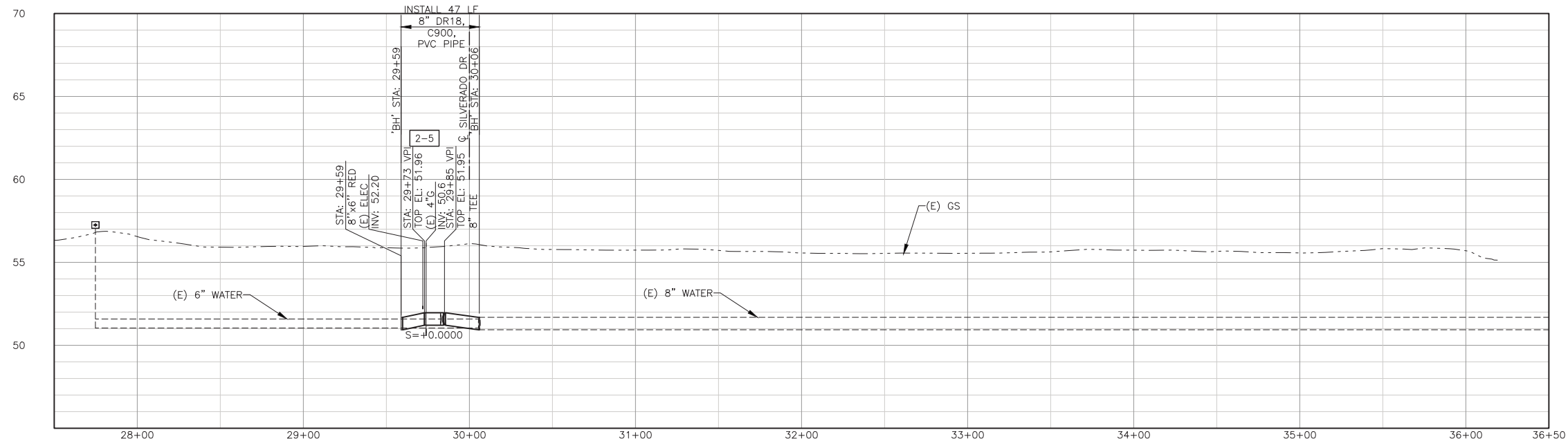
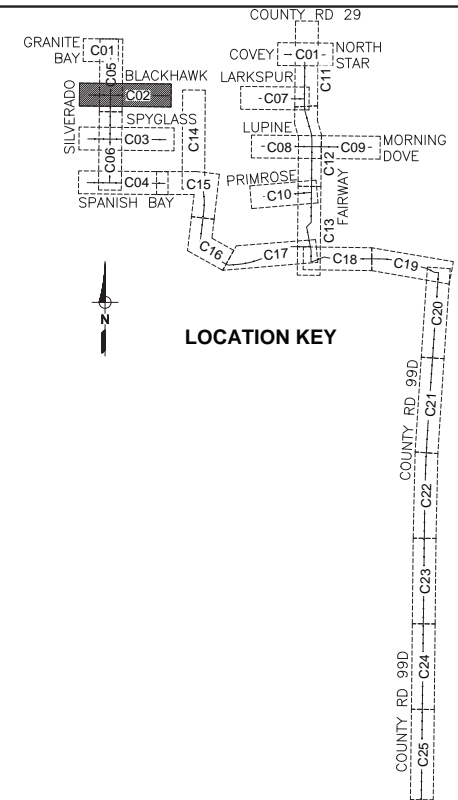
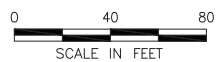
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DATE: 12/06/2018  
DWG NO C01  
SHEET NO 12 of 36

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FOR SILVERADO DR  
PLAN & PROFILE  
SEE SHEET C05

LINE 'BH' PLAN



LINE 'BH' PROFILE

SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 2 INSTALL GATE VALVE (SIZE)
- 5 INSTALL TEE (SIZE/SIZE)
- 7 INSTALL REDUCER (SIZE/SIZE)
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
- 25 CUT, CAP AND ABANDON EXISTING DISCONNECTED WATER

**SPECIAL CONSTRUCTION NOTES:**

- 2-1 PROVIDE AND INSTALL ADDITIONAL TEMPORARY FITTINGS AND PIPING AS NEEDED FOR STAGED FILLING, TESTING AND CONNECTION. REMOVE ALL TEMPORARY MATERIALS AND MAKE FINAL CONNECTIONS UNDER FULL-TIME INSPECTION.
- 2-2 REMOVE EXISTING 8"x6" REDUCER, 6" GV AND PIPE TO WEST AS NEEDED TO INSTALL AND CONNECT NEW WATER MAIN AS SHOWN.
- 2-3 ALL REMOVAL AND INSTALLATION WORK WHERE PIPE AND/OR FITTINGS ARE BEING REPLACED IN THE SAME POSITION SHALL BE PERFORMED UNDER CONTINUOUS INSPECTION FOR IMMEDIATE REACTIVATION.
- 2-4 DISCONNECT AND REMOVE EXISTING PIPE FROM EAST LEG OF TEE. CONNECT NEW REDUCER TO EXISTING 6" FLANGED TEE.
- 2-5 INSTALL MECHANICAL JOINT (MJ) COUPLING ON PLAIN PIPE END AT PVI. ADJUST PVI ELEVATION TO SPLIT THE AVAILABLE CLEARANCE BETWEEN GAS AND TELECOMMUNICATIONS CROSSINGS. INSTALL COUPLING WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING.
- 2-6 REMOVE EXISTING 6" GV TO NORTH AND REPLACE WITH BLIND FLANGE.
- 2-7 REMOVE AND REPLACE EXISTING VALVE BOXES FOR REMAINING GATE VALVES TO EAST AND SOUTH.

**BID DOCUMENTS**

DESIGNED_AJU					
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CHECKED_KLW					
NO.	BY	DATE	REVISION	APP'D	DATE

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ENGINEER'S NAME  
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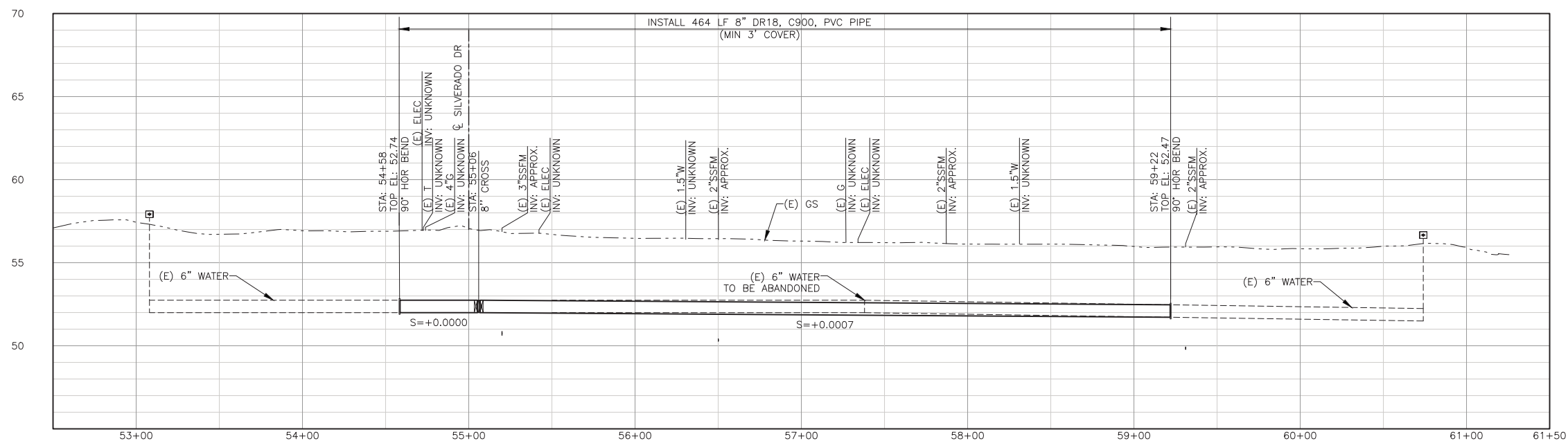
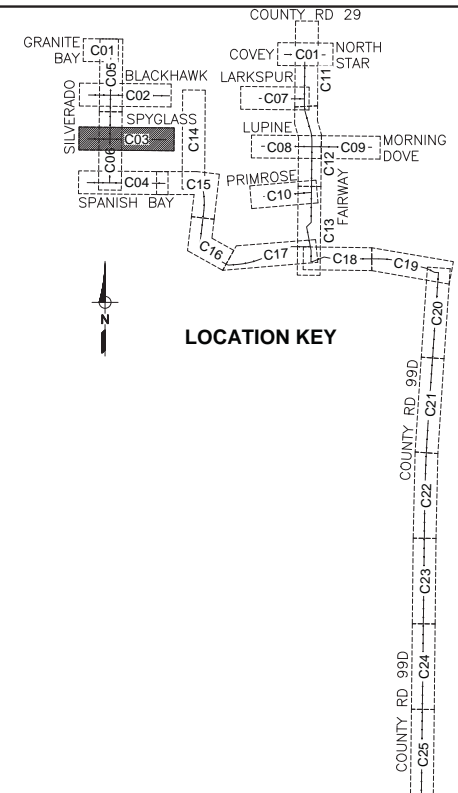
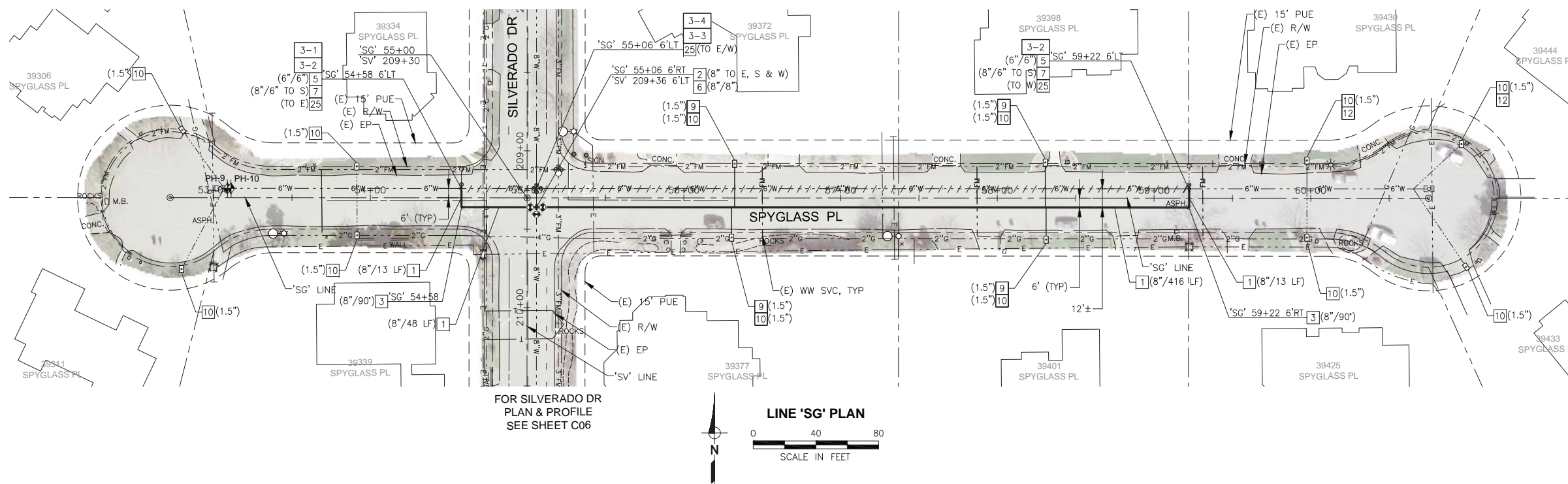
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT

BLACKHAWK PL PLAN AND PROFILE

SCALE AS SHOWN	DWG NO C02
DATE: 12/06/2018	SHEET NO 13 of 36

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- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 2 INSTALL GATE VALVE (SIZE)
  - 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
  - 5 INSTALL TEE (SIZE/SIZE)
  - 6 INSTALL CUT-IN CROSS PER DETAIL 9, SHT D05 (SIZE)
  - 7 INSTALL REDUCER (SIZE/SIZE)
  - 9 INSTALL WATER SERVICE LATERAL (SIZE)
  - 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
  - 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.
  - 25 CUT, CAP AND ABANDON EXISTING DISCONNECTED WATER
- SPECIAL CONSTRUCTION NOTES:**
- 3-1 PROVIDE AND INSTALL ADDITIONAL TEMPORARY FITTINGS AND PIPING AS NEEDED FOR STAGED FILLING, TESTING AND CONNECTION. REMOVE ALL TEMPORARY MATERIALS AND MAKE FINAL CONNECTIONS UNDER FULL-TIME INSPECTION.
  - 3-2 REMOVE EXISTING TEE AND PIPE AS NEEDED TO CONNECT NEW WATER MAIN AS SHOWN. ALSO REMOVE AND RESET EXISTING 6" AUXILIARY HYDRANT VALVE AND FITTINGS AS NEEDED TO MAKE NEW CONNECTIONS. REMOVE EXISTING CROSS AND GATE VALVES TO EAST, NORTH AND WEST. GATE VALVE TO SOUTH TO REMAIN. REPLACE CROSS WITH 8" PIPE AND 8" CUT-IN SLEEVE IN NORTH-SOUTH DIRECTION.
  - 3-3 REMOVE AND REPLACE EXISTING VALVE BOX FOR REMAINING GATE VALVE.

**LINE 'SG' PROFILE**  
SCALE: H:1"=40', V:1"=4'

DESIGNED_AJU					
DRAWN_JRR					
CHECKED_KLW					
NO.	BY	DATE	REVISION	APP'D	DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
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**BID DOCUMENTS**

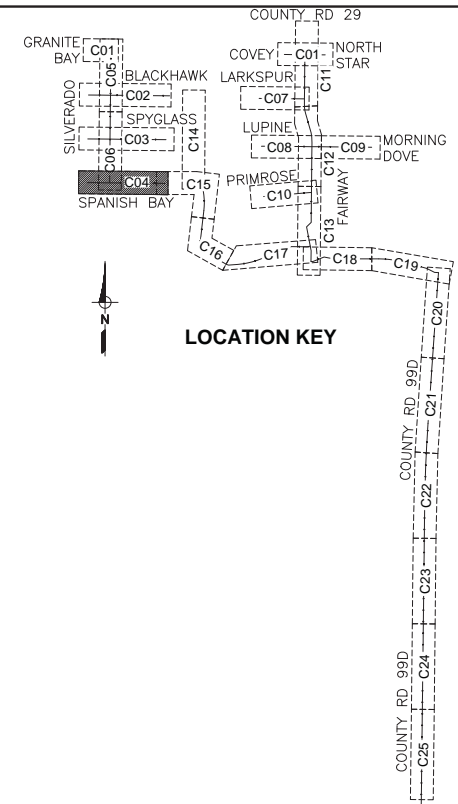
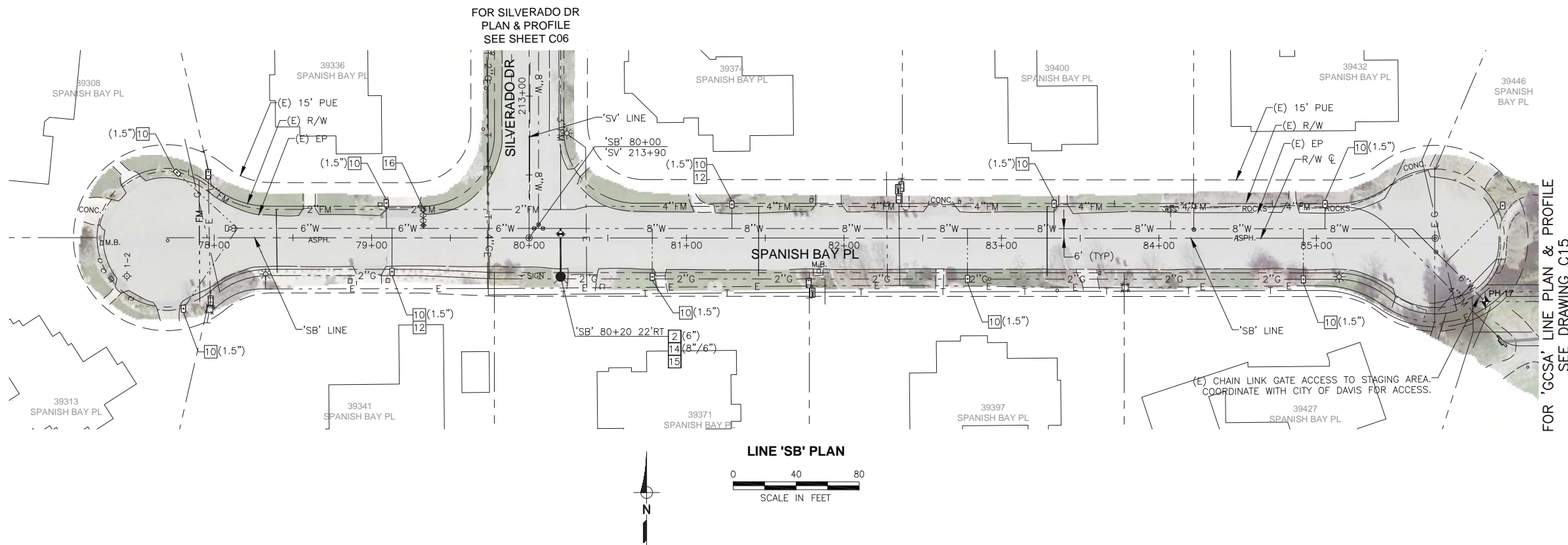
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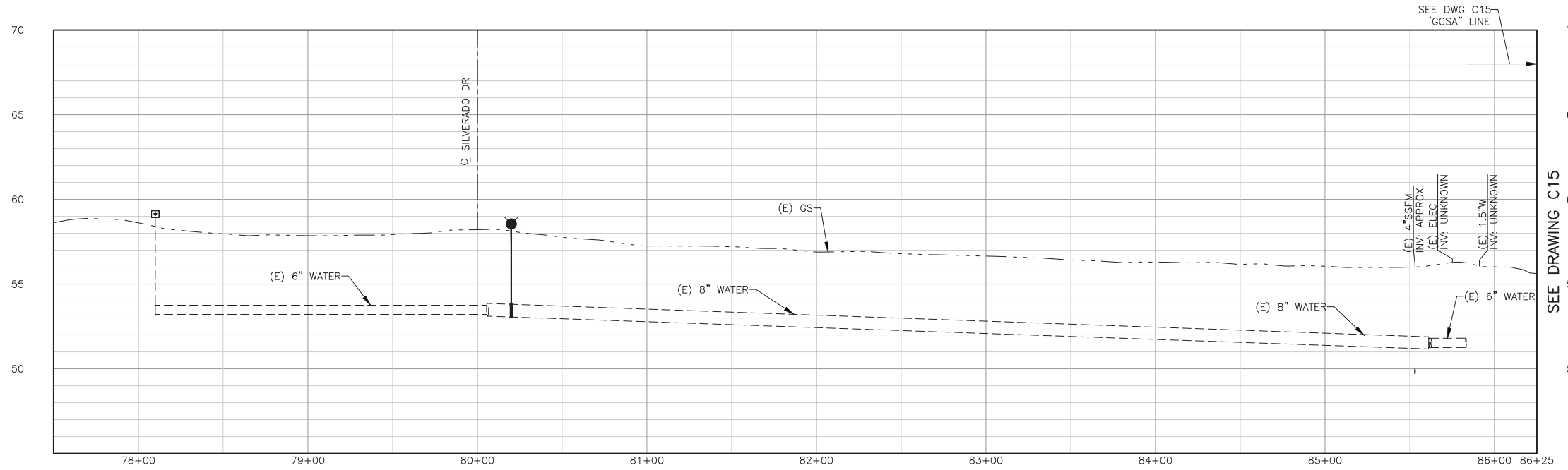
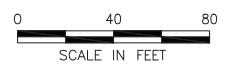
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SHEET NO  
**14 of 36**

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LINE 'SB' PLAN



LINE 'SB' PROFILE

SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 2 INSTALL GATE VALVE (SIZE)
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
- 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.
- 14 INSTALL CUT-IN TEE PER DETAIL 8/SHT D05 (SIZE/SIZE)
- 15 INSTALL NEW FIRE HYDRANT ASSEMBLY WITH CONCRETE ANCHOR PER CITY STANDARD PLAN 101-1. (SEE SHT D07)
- 16 REMOVE EXISTING FIRE HYDRANT ASSEMBLY, LATERAL AND VALVE. INSTALL BLIND FLANGE WHERE VALVE WAS REMOVED

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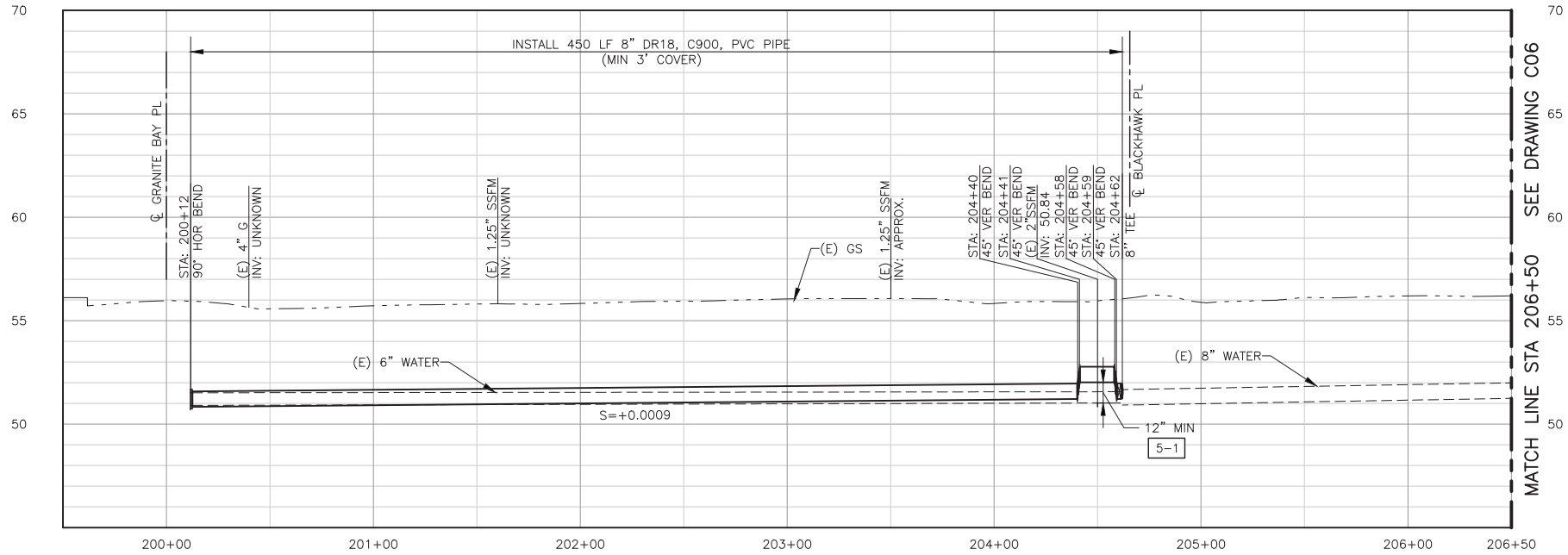
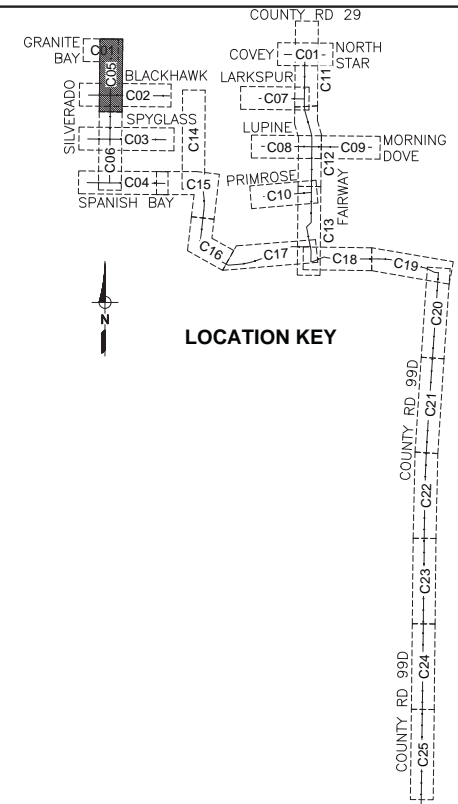
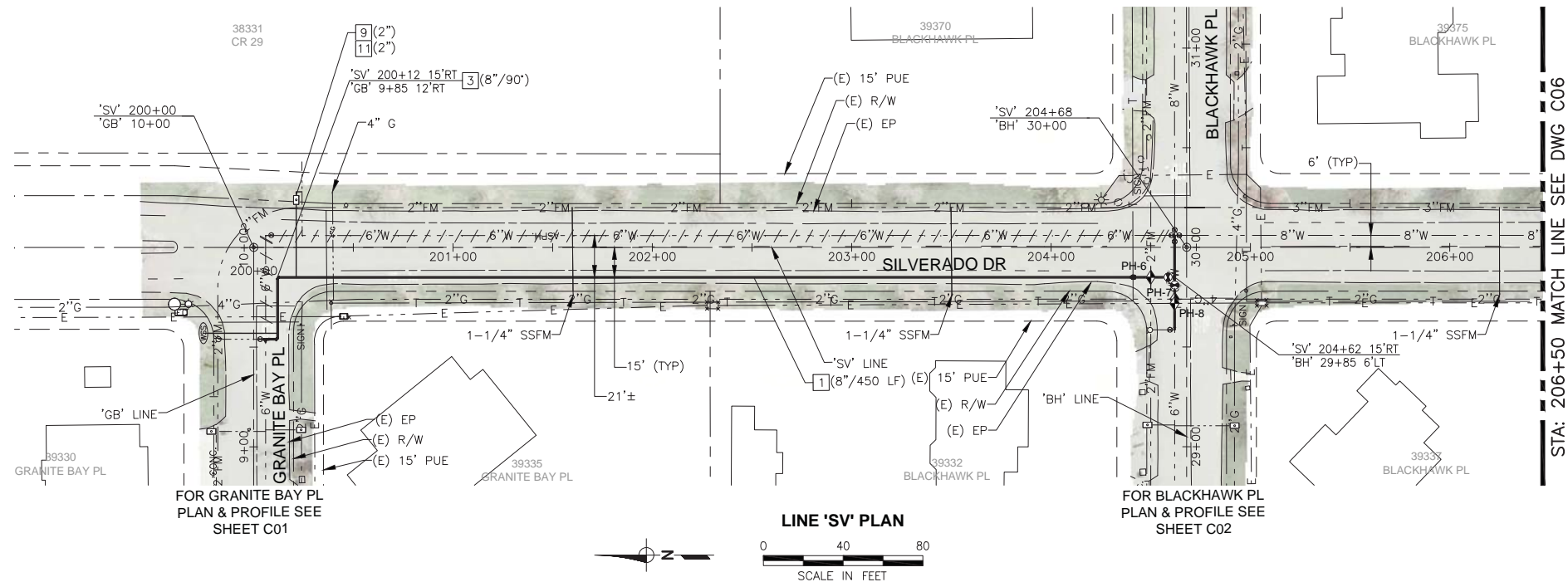
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**WEST YOST ASSOCIATES**  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
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 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT  
 SPANISH BAY PL PLAN AND PROFILE

<b>BID DOCUMENTS</b>	
SCALE AS SHOWN	DWG NO <b>C04</b>
DATE: 12/06/2018	SHEET NO 15 of 36

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**LINE 'SV' PROFILE**  
SCALE: H:1"=40', V:1"=4'

- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
  - 9 INSTALL WATER SERVICE LATERAL (SIZE)
  - 11 INSTALL METER WITH VALVES, ANODE AND BOX PER DETAIL 4, SHT D03 AND CONNECT TO EXISTING IRRIGATION SERVICE. LOCATE EXISTING PIPE AT EXISTING BACKFLOW PREVENTER AND INSTALL METER ON SUPPLY SIDE OF BACKFLOW (SIZE)
- SPECIAL CONSTRUCTION NOTES:**
- 5-1 MAINTAIN A MINIMUM OF 12" CLEARANCE OVER SSFM. INSTALL FULL STICK OF PIPE OVER (E) SSFM SO NO JOINTS ARE WITHIN 8 FEET CLEAR OF SSFM.

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IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT**

**SILVERADO DR PLAN AND PROFILE 1**

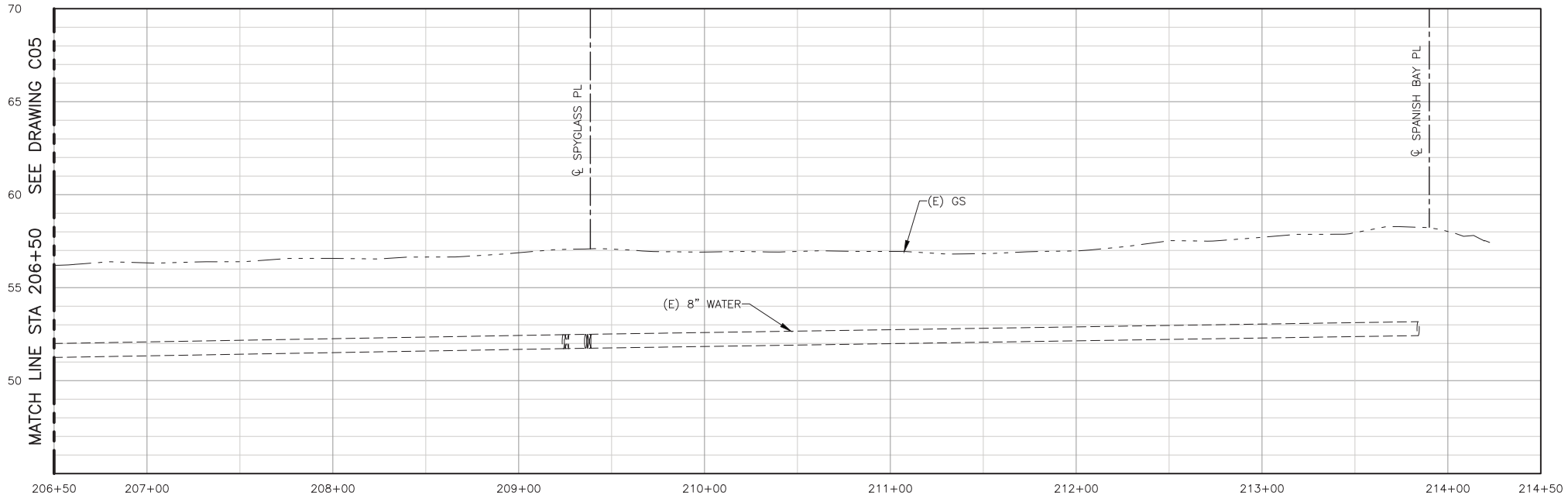
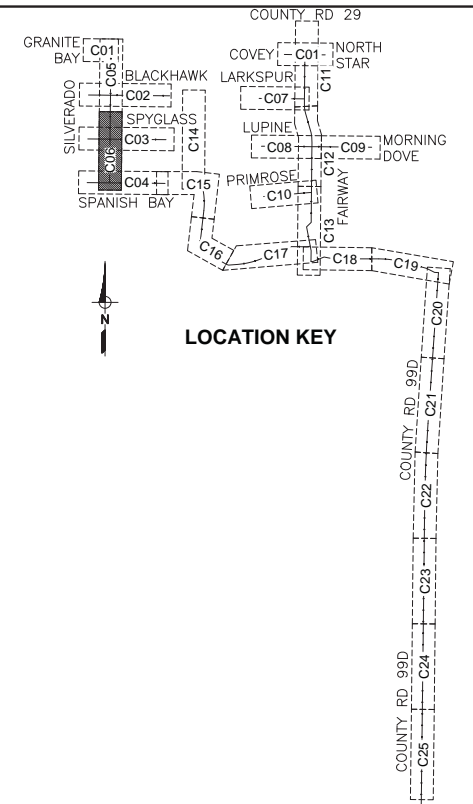
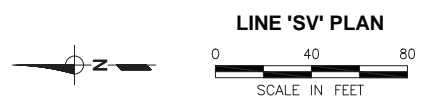
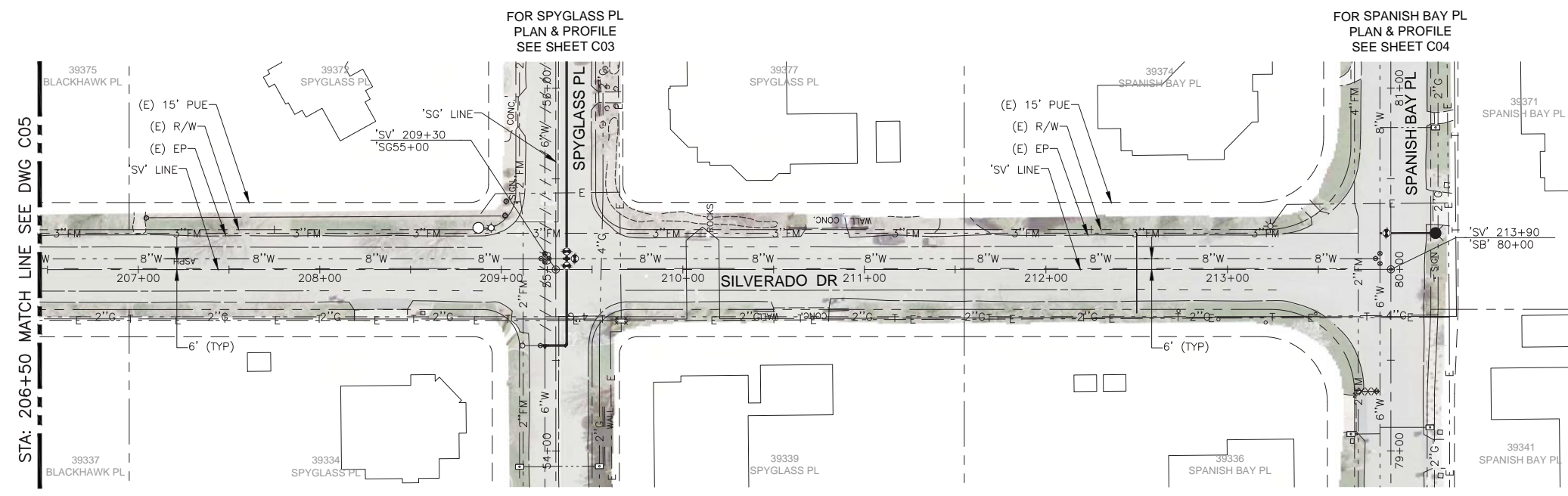
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DWG NO C05  
SHEET NO 16 of 36



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**LINE 'SV' PROFILE**  
SCALE: H:1"=40', V:1"=4'

**SPECIAL CONSTRUCTION NOTES:**  
6-1 THIS SHEET IS FOR INFORMATION ONLY. NO CONSTRUCTION REQUIREMENTS ARE SHOWN ON THIS SHEET.

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CHECKED_KLW					
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BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

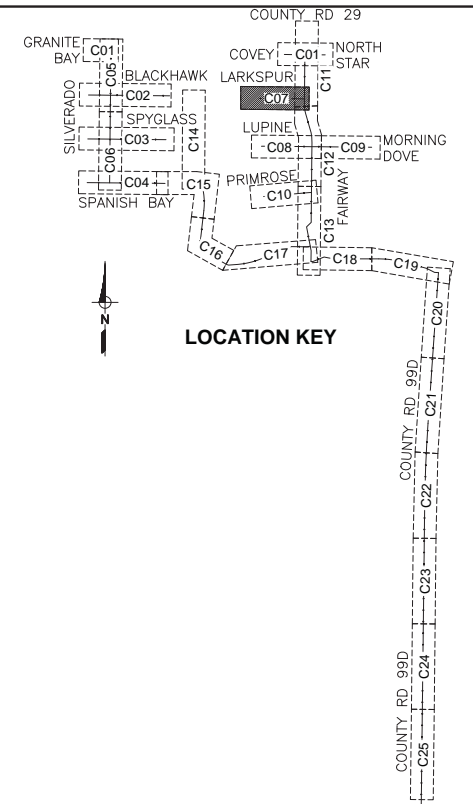
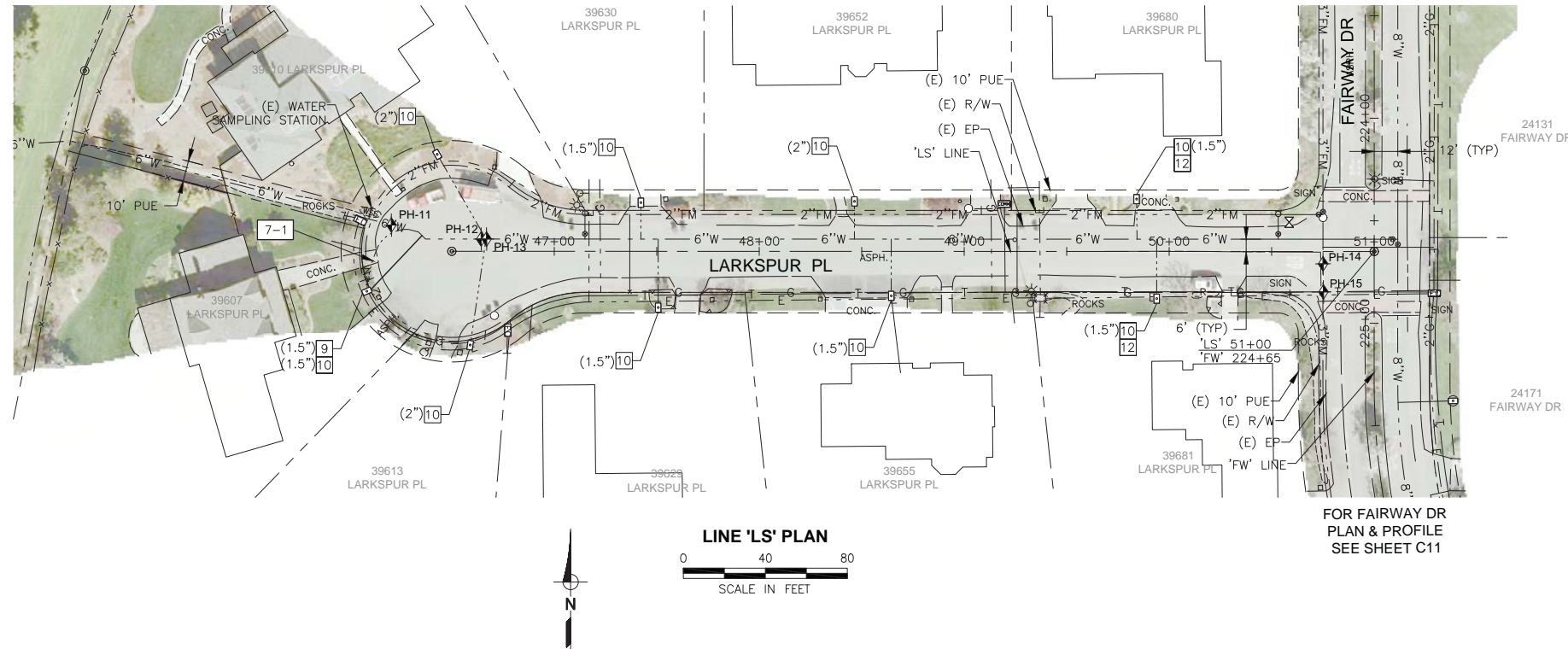


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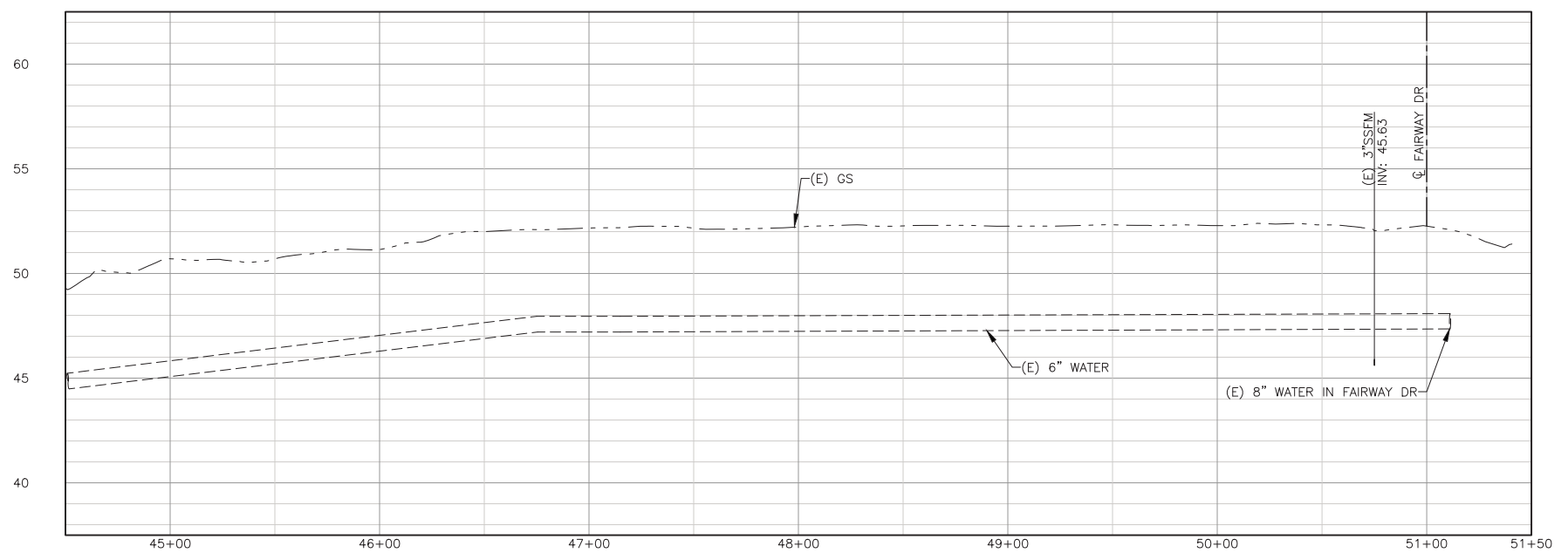
COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**  
SILVERADO DR PLAN AND PROFILE 2

**BID DOCUMENTS**  
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DWG NO C06  
SHEET NO 17 of 36

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FOR FAIRWAY DR  
PLAN & PROFILE  
SEE SHEET C11



**LINE 'LS' PROFILE**  
SCALE: H:1"=40', V:1"=4'

- CONSTRUCTION NOTES:**
- 9 INSTALL WATER SERVICE LATERAL (SIZE)
  - 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
  - 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.
- SPECIAL CONSTRUCTION NOTES:**
- 7-1 A PORTION OF THE EXISTING WATER SERVICE PIPE FOLLOWS AND LAYS PARTIALLY UNDERNEATH EXISTING MAIN. LOCATE, DISCONNECT, CAP AND ABANDON EXISTING SERVICE CONNECTION.

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IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT

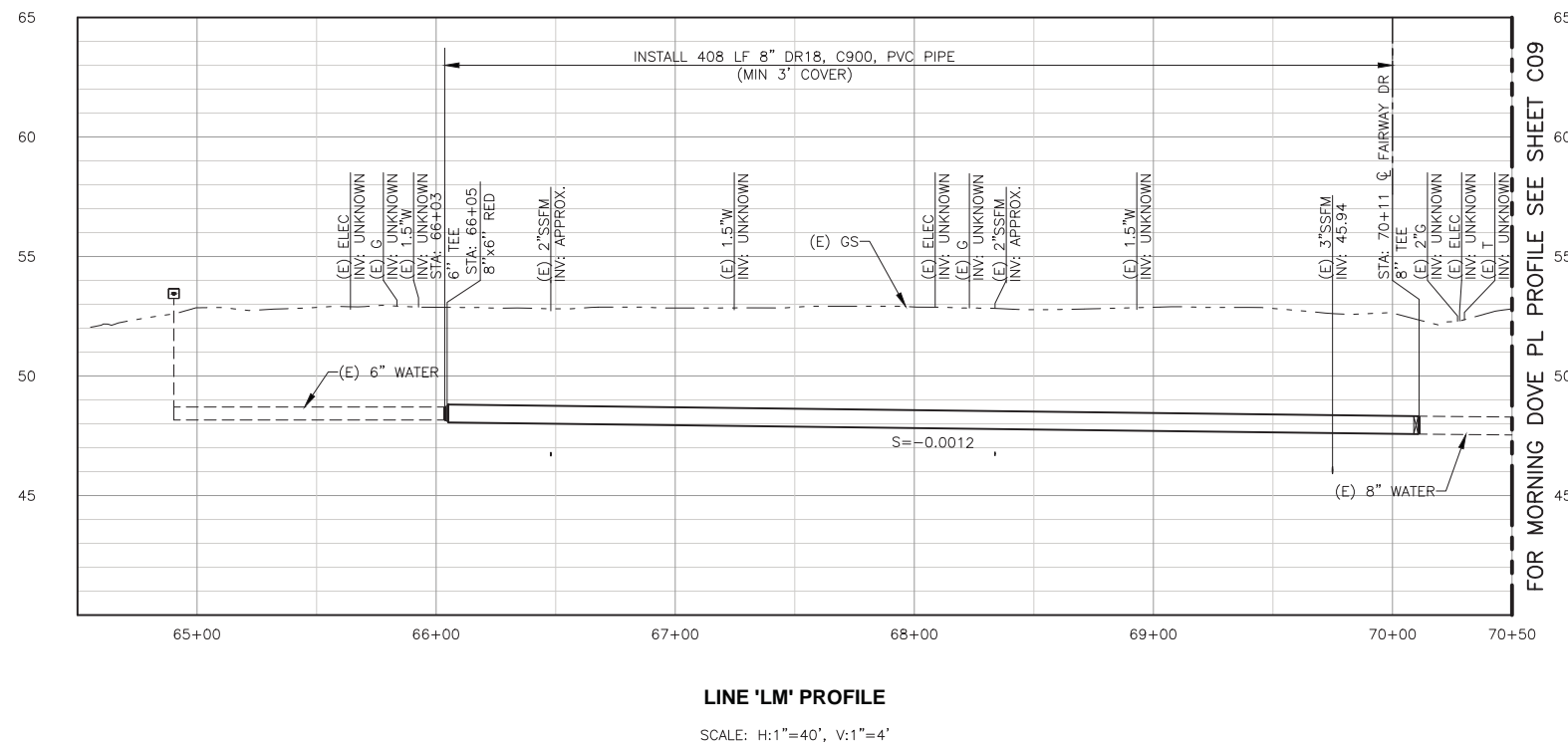
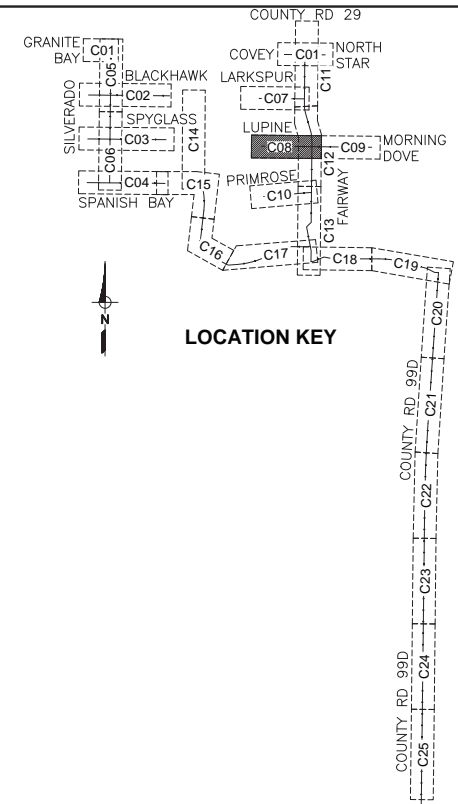
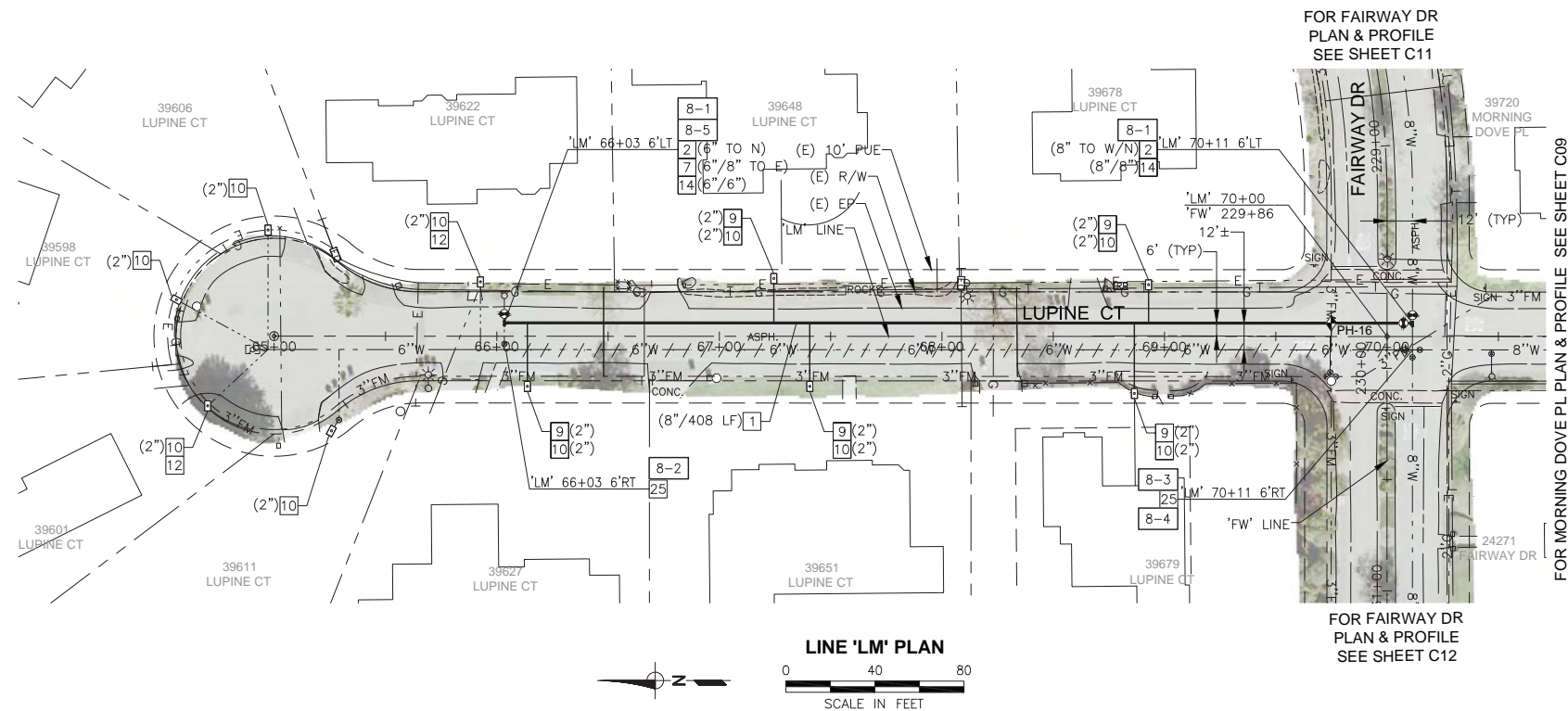
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**C07**

DATE: 12/06/2018

SHEET NO  
**18 of 36**

LARKSPUR PL PLAN AND PROFILE



**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 2 INSTALL GATE VALVE (SIZE)
- 5 INSTALL TEE (SIZE/SIZE)
- 7 INSTALL REDUCER (SIZE/SIZE)
- 9 INSTALL WATER SERVICE LATERAL (SIZE)
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
- 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.
- 14 INSTALL CUT-IN TEE PER DETAIL 8, SHT D05 (SIZE/SIZE)
- 25 CUT, CAP AND ABANDON EXISTING DISCONNECTED WATER

**SPECIAL CONSTRUCTION NOTES:**

- 8-1 PROVIDE AND INSTALL ADDITIONAL TEMPORARY FITTINGS AND PIPING AS NEEDED FOR STAGED FILLING, TESTING AND CONNECTION. REMOVE ALL TEMPORARY MATERIALS AND MAKE FINAL CONNECTIONS UNDER FULL-TIME INSPECTION.
- 8-2 DISCONNECT AND REMOVE EXISTING PIPE FROM EAST LEG OF TEE AND INSTALL BLIND FLANGE ON TEE.
- 8-3 REMOVE EXISTING GATE VALVE TO WEST AND REPLACE WITH BLIND FLANGE.
- 8-4 REMOVE AND REPLACE EXISTING VALVE BOXES FOR REMAINING GATE VALVES.
- 8-5 CONNECT EXISTING 6" FIRE HYDRANT LATERAL TO NORTH.

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT**

**LUPINE COURT PLAN AND PROFILE**

**BID DOCUMENTS**

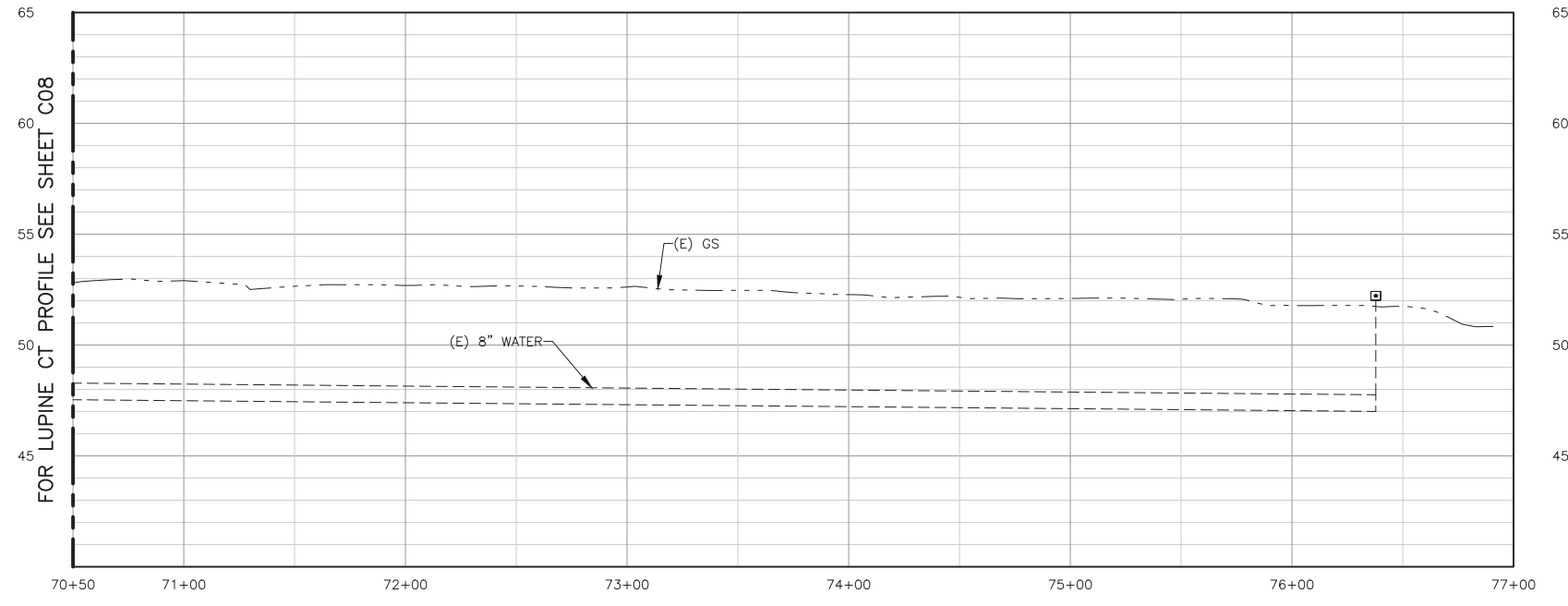
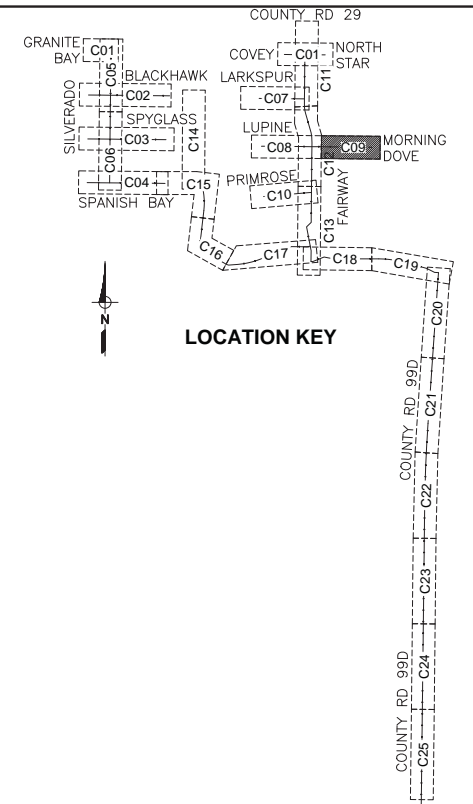
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DATE: 12/06/2018

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**19 of 36**

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- CONSTRUCTION NOTES:**
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
  - 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.

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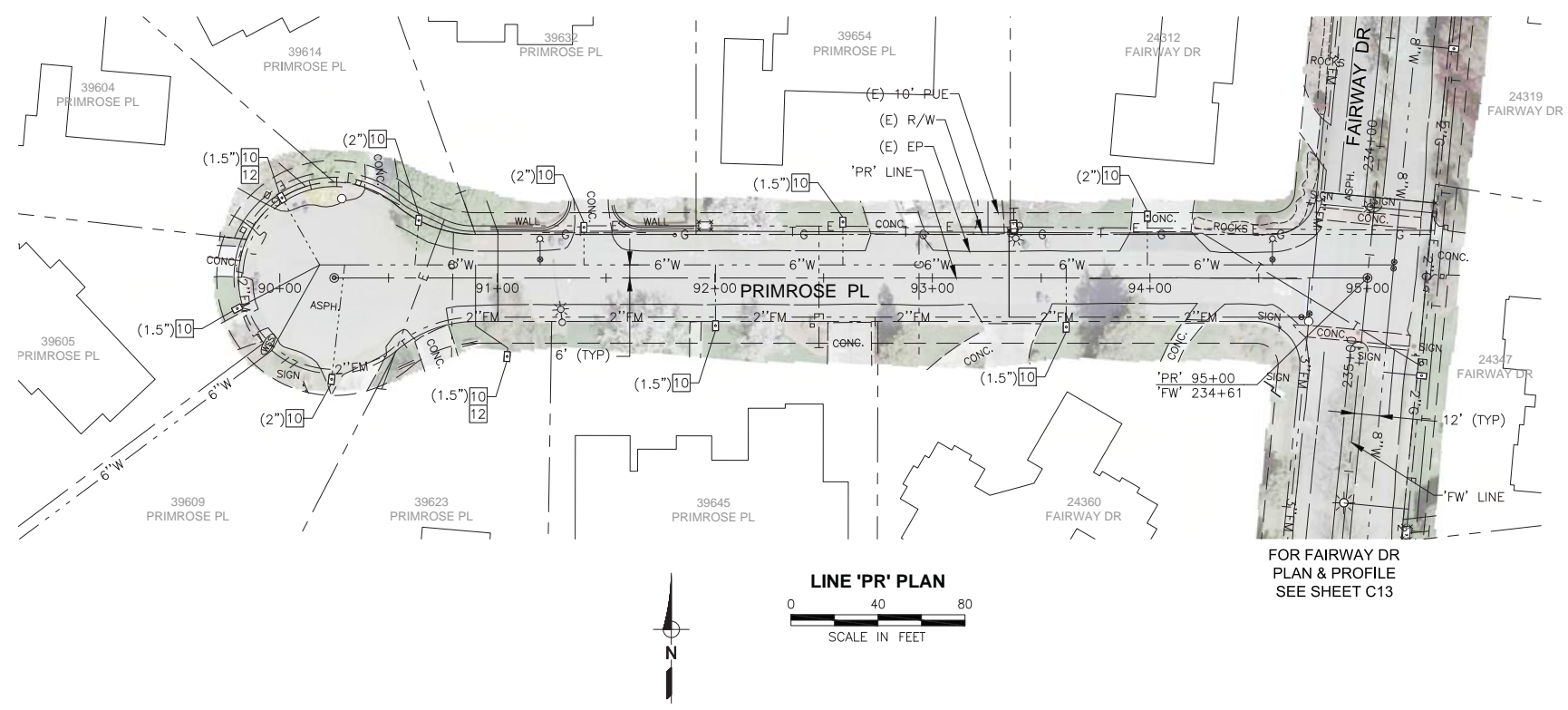
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 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
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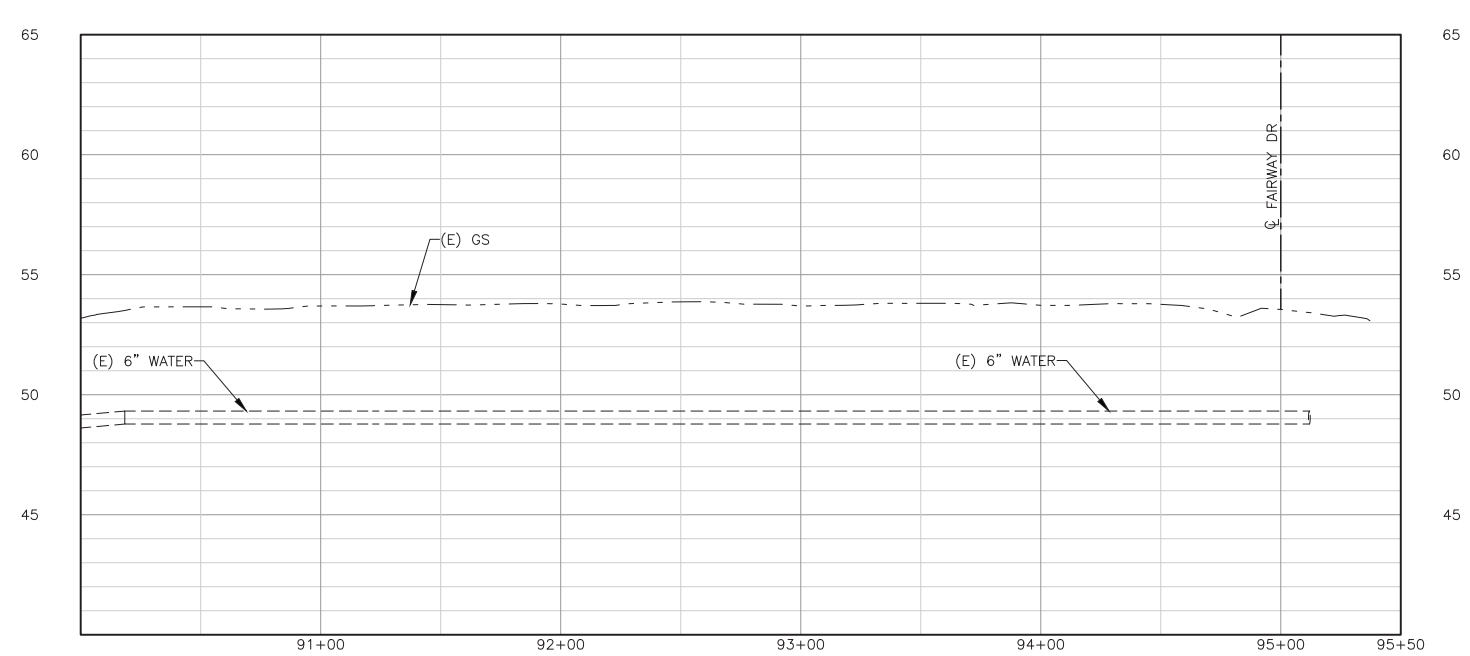
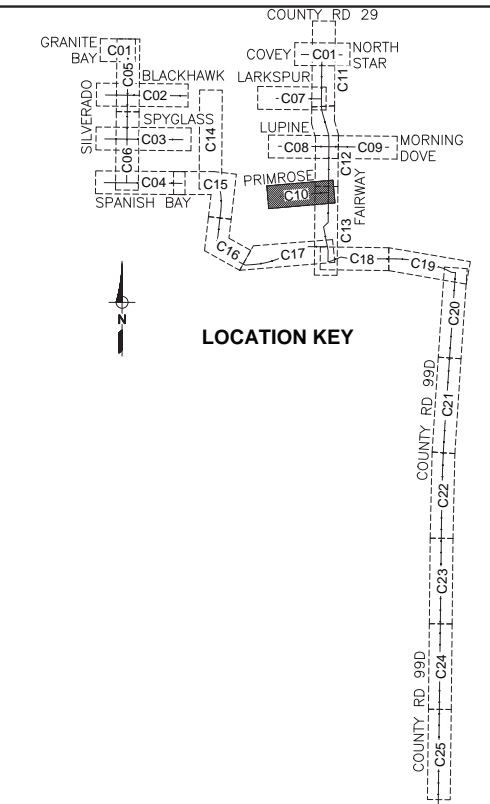
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**BID DOCUMENTS**

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FOR FAIRWAY DR  
PLAN & PROFILE  
SEE SHEET C13



LINE 'PR' PROFILE  
SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
- 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.

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DATE JANUARY 12, 2018 P.E. C57700  
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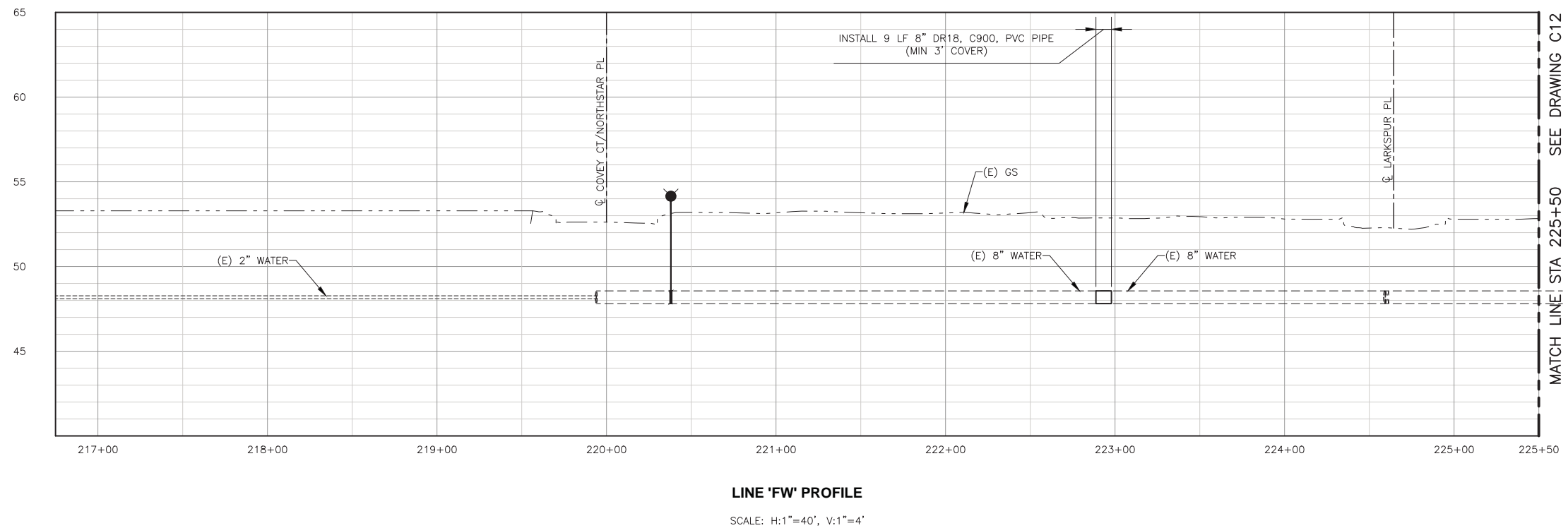
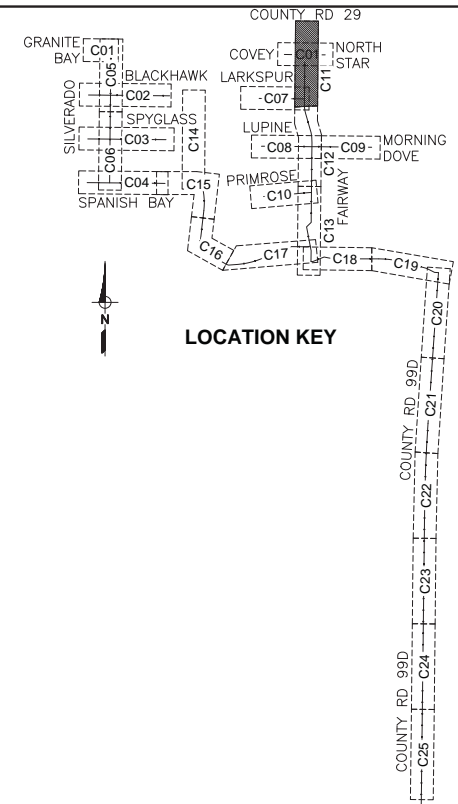
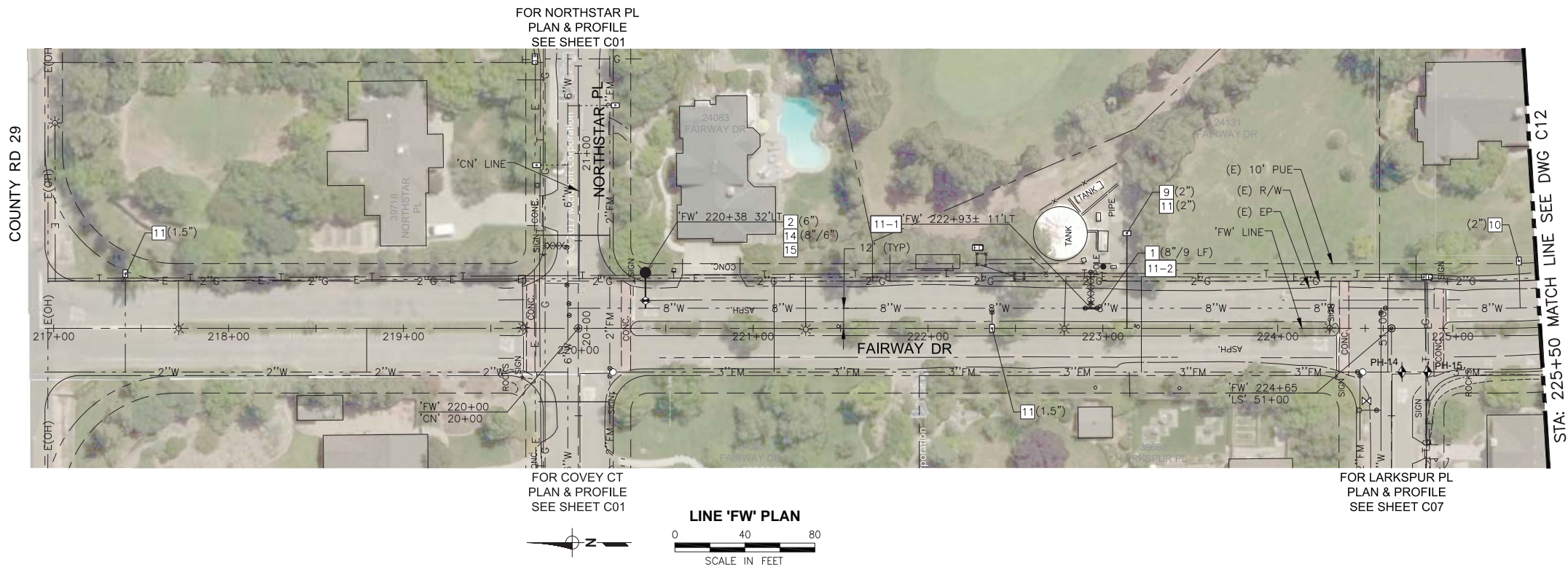


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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT**  
PRIMROSE PL PLAN AND PROFILE

<b>BID DOCUMENTS</b>	
SCALE AS SHOWN	DWG NO C10
DATE: 12/06/2018	SHEET NO 21 of 36

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**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 9 INSTALL WATER SERVICE LATERAL (SIZE)
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
- 11 INSTALL METER WITH VALVES, ANODE AND BOX PER DETAIL 4, SHT D03 AND CONNECT TO EXISTING IRRIGATION SERVICE. LOCATE EXISTING PIPE AT EXISTING BACKFLOW PREVENTER AND INSTALL METER ON SUPPLY SIDE OF BACKFLOW (SIZE)
- 14 INSTALL CUT-IN TEE PER DETAIL 8, SHT D05 (SIZE/SIZE)
- 15 INSTALL NEW FIRE HYDRANT ASSEMBLY WITH CONCRETE ANCHOR PER CITY STANDARD PLAN 101-1. (SEE SHT D07)

**SPECIAL CONSTRUCTION NOTES:**

- 11-1 REMOVE EXISTING TEE AND CLUSTER OF 3 VALVES AT 8" MAIN AND 25 LF OF 8" PIPE TO EAST. CAP AND ABANDON EXISTING PIPE FROM WELL. THIS WORK SHALL NOT BE PERFORMED UNTIL ALL OTHER PIPE CONSTRUCTION IS COMPLETED, TESTED, FLUSHED, AND READY TO BE PUT INTO SERVICE. COORDINATE WELL DISCONNECTION WITH REMOVAL OF BACKFLOW PREVENTION AT CONNECTION TO CITY SYSTEM PER NOTE 25-3 ON SHEET C25.
- 11-2 INSTALL NEW PIPE IN PLACE OF REMOVED VALVES, FITTINGS AND PIPE ON EXISTING 8" WATER MAIN IN FAIRWAY DRIVE. CONNECT WITH ONE CUT-IN SLEEVE AND A BELL AND SPIGOT JOINT. INSTALL UNDER CONTINUOUS INSPECTION.

**BID DOCUMENTS**

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DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
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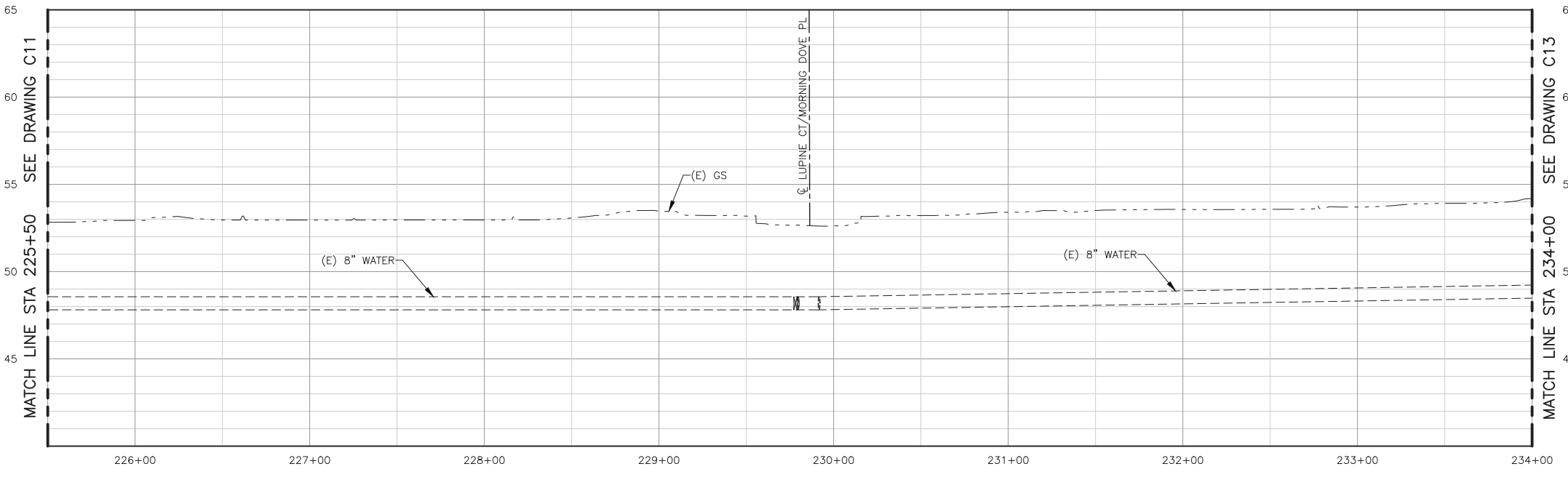
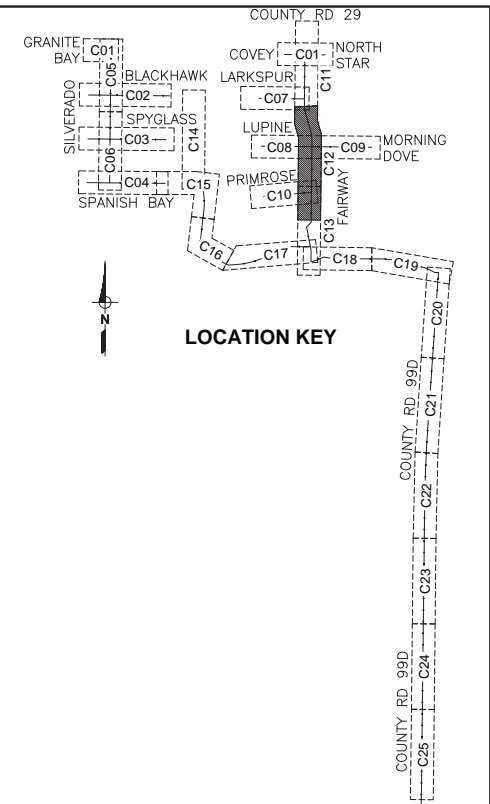
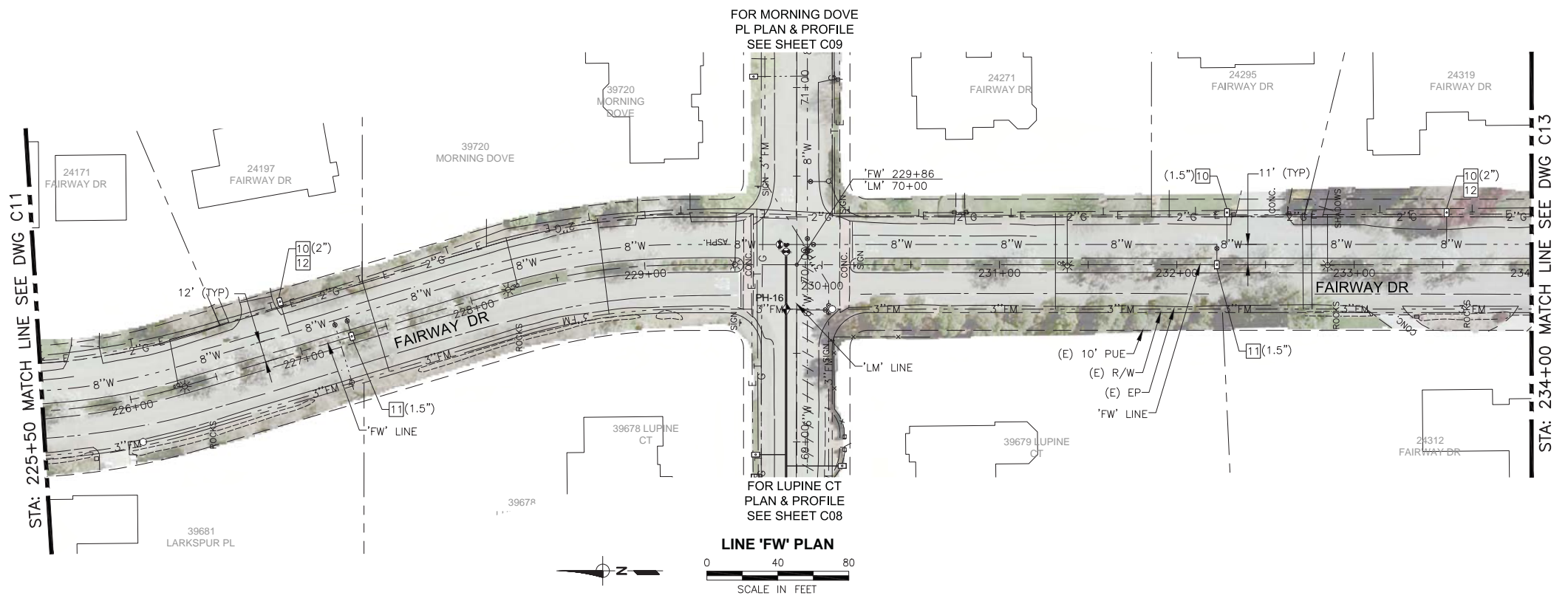
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT

FAIRWAY DR PLAN AND PROFILE 1

SCALE AS SHOWN	DWG NO C11
DATE: 12/06/2018	SHEET NO 22 of 36

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- CONSTRUCTION NOTES:**
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03
  - 11 INSTALL METER WITH VALVES, ANODE AND BOX PER DETAIL 4, SHT D03 AND CONNECT TO EXISTING IRRIGATION SERVICE. LOCATE EXISTING PIPE AT EXISTING BACKFLOW PREVENTER AND INSTALL METER ON SUPPLY SIDE OF BACKFLOW (SIZE)
  - 12 LOCATE AND EXPOSE EXISTING SERVICE VALVE. SET NEW BOX PER MODIFIED STANDARD PLAN 101-3 ON SHT D04.

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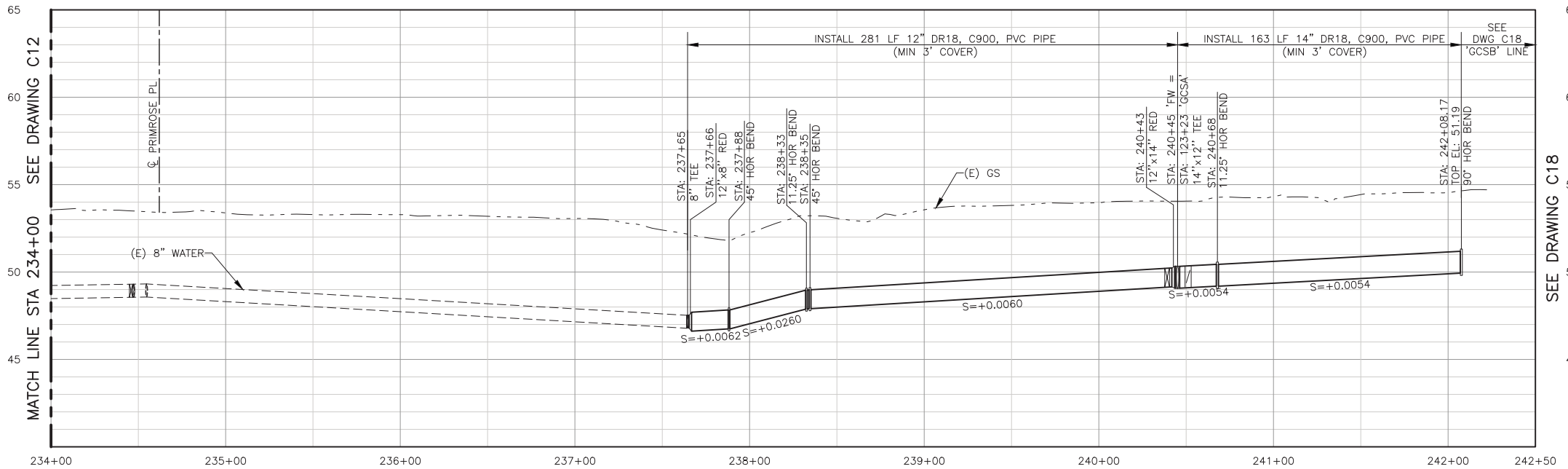
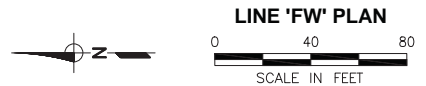
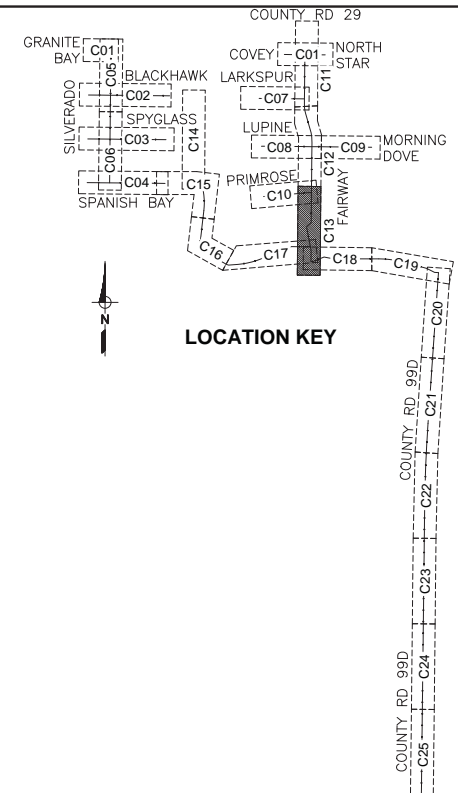
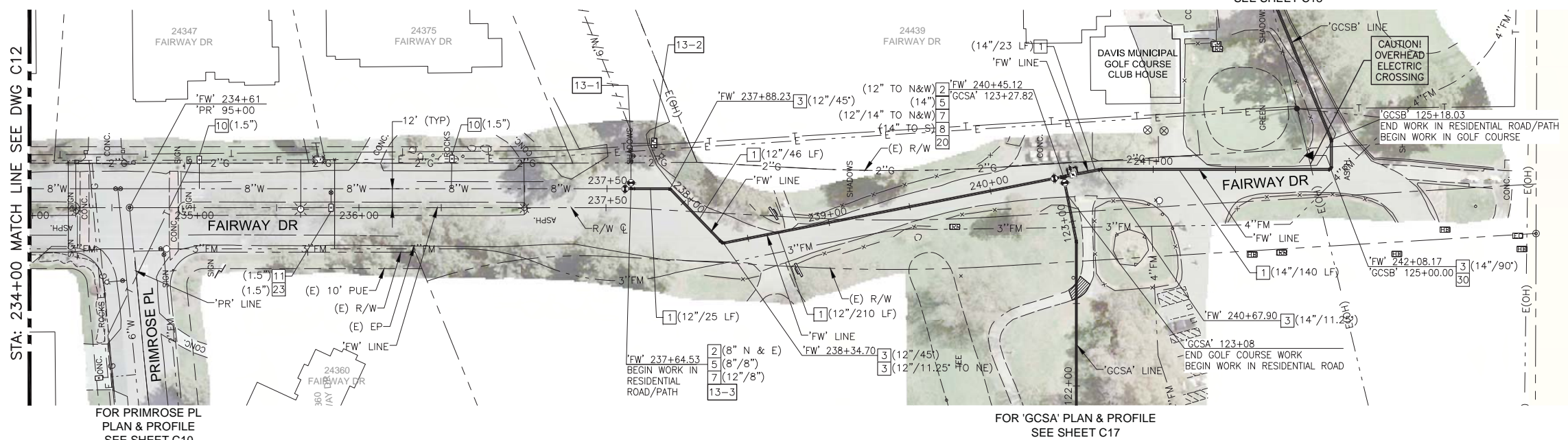
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 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT

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**LINE 'FW' PROFILE**  
SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 2 INSTALL GATE VALVE (SIZE)
- 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
- 5 INSTALL TEE (SIZE/SIZE)
- 7 INSTALL REDUCER (SIZE/SIZE)
- 8 INSTALL BUTTERFLY VALVE (SIZE)
- 10 INSTALL 1-INCH METER WITH VALVES, ANODE AND BOX ON EXISTING SERVICE (SIZE) PER DETAIL 3, SHT D03  
INSTALL METER WITH VALVES, ANODE AND BOX PER DETAIL 4, SHT D03 AND CONNECT TO EXISTING IRRIGATION SERVICE. LOCATE EXISTING PIPE AT EXISTING BACKFLOW PREVENTER AND INSTALL METER ON SUPPLY SIDE OF BACKFLOW (SIZE)
- 20 INSTALL 6-INCH BYPASS WITH VALVES PER DETAIL 6, SHT D05
- 23 REMOVE EXISTING BACKFLOW PREVENTER AND INSTALL BACKFLOW PREVENTION ASSEMBLY PER CITY OF DAVIS STANDARD PLAN 101-11 (SIZE)
- 30 INSTALL BRASS MARKER IN 8-INCH CONCRETE CYLINDER MARKED WITH "CITY OF DAVIS WATER MAIN". INSTALL PER CITY STANDARD, EXCEPT SET MARKER FLUSH WITH EXISTING GRADE.

**SPECIAL CONSTRUCTION NOTES:**

- 13-1 LOCATE EXISTING SERVICE SADDLE. CUT AND CAP 6-INCH MAIN AT 2 FEET BEYOND SERVICE CONNECTION. ABANDON DISCONNECTED 6-INCH WATER MAIN TO THE EAST.
- 13-2 ALL GOLF COURSE FACILITIES, INCLUDING THE CLUB HOUSE AT 24439 FAIRWAY DR ARE SERVED BY THIS (E) 2" METERED SERVICE. (E) METER TO REMAIN IN USE
- 13-3 REMOVE EXISTING 90 BEND AND 8" PIPE TO NORTH AND EAST AS NEEDED TO CONNECT NEW TEE TO BOTH EXISTING 8" PIPES PER DETAIL 17, SHT D07

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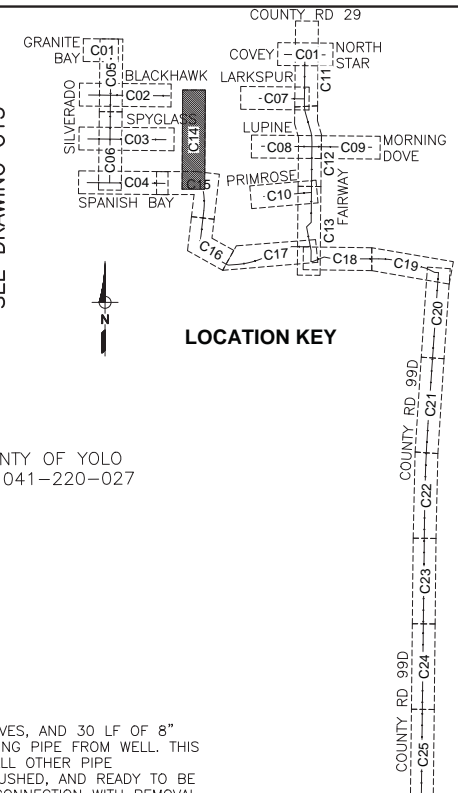
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**  
FAIRWAY DR PLAN AND PROFILE 3

**BID DOCUMENTS**  
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DWG NO  
**C13**  
SHEET NO  
**24 of 36**



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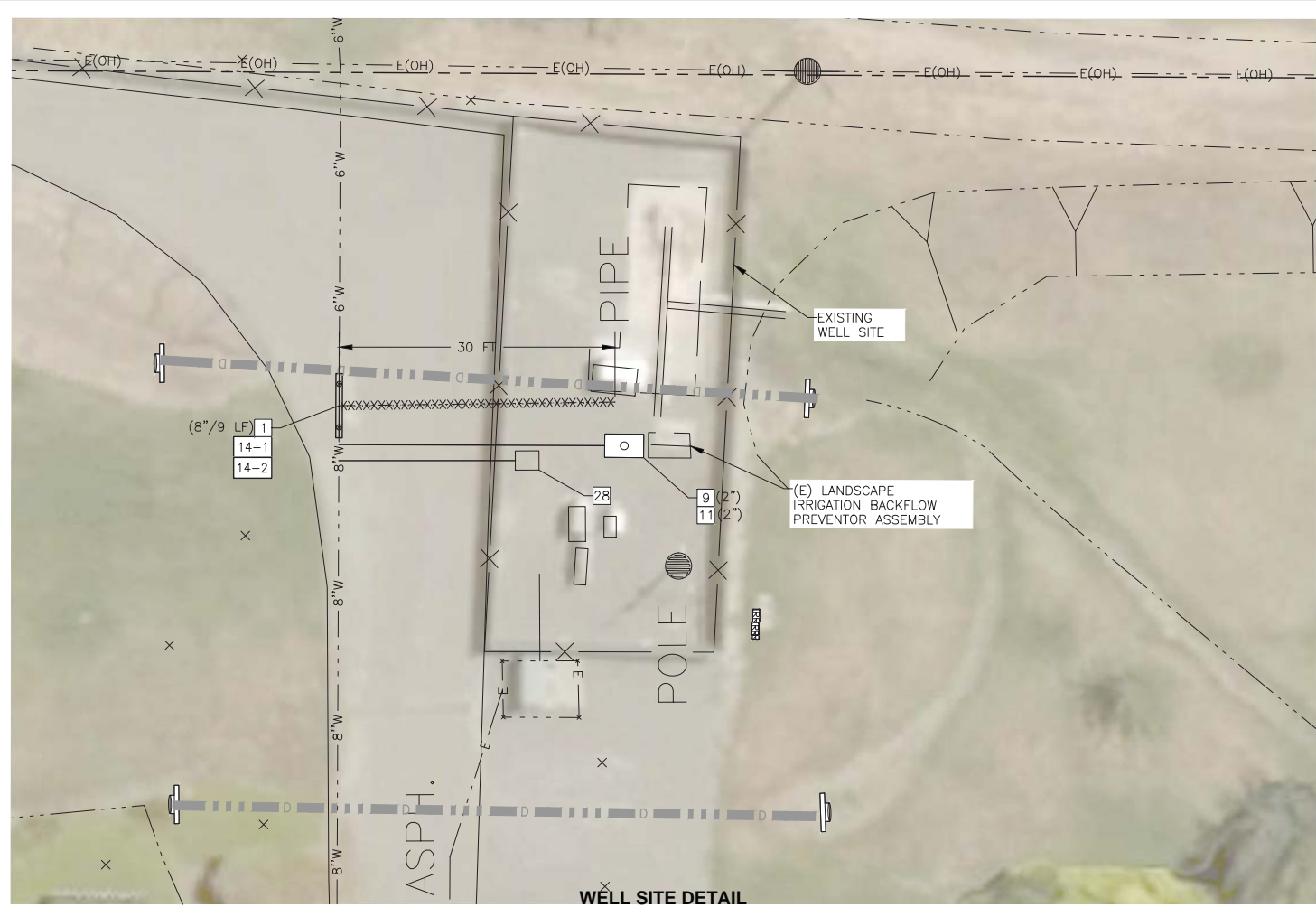
SEE DRAWING C15

**CONSTRUCTION NOTES:**

- [9] INSTALL WATER SERVICE LATERAL (SIZE)
- [11] INSTALL METER WITH VALVES, ANODE AND BOX PER DETAIL 4, SHT D03 AND CONNECT TO EXISTING IRRIGATION SERVICE. LOCATE EXISTING PIPE AT EXISTING BACKFLOW PREVENTER AND INSTALL METER ON SUPPLY SIDE OF BACKFLOW (SIZE)
- [28] INSTALL 1-INCH SERVICE THROUGH ANGLE METER STOP VALVE WITH METER BOX AND PIPE STUB AFTER VALVE PER CITY STANDARD FOR FUTURE PRESSURE SENSOR/TRANSDUCER (BY OTHERS). NO METER REQUIRED.

**SPECIAL CONSTRUCTION NOTES:**

- [14-1] REMOVE EXISTING TEE, CLUSTER OF 2 VALVES, AND 30 LF OF 8" PIPE TO SOUTH. CAP AND ABANDON EXISTING PIPE FROM WELL. THIS WORK SHALL NOT BE PERFORMED UNTIL ALL OTHER PIPE CONSTRUCTION IS COMPLETED, TESTED, FLUSHED, AND READY TO BE PUT INTO SERVICE. COORDINATE WELL DISCONNECTION WITH REMOVAL OF BACKFLOW PREVENTION AT CONNECTION TO CITY SYSTEM PER NOTE 25-3 ON SHEET C25.
- [14-2] INSTALL NEW PIPE IN PLACE OF REMOVED VALVES, FITTINGS AND PIPE ON EXISTING 8" WATER MAIN. INSTALL 8"x6" REDUCER TO THE EAST. CONNECT WITH ONE CUT-IN SLEEVE AND A BELL AND SPIGOT JOINT. INSTALL UNDER CONTINUOUS INSPECTION.



DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
 DATE JANUARY 12, 2018 P.E. C57700  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT**  
**GOLF COURSE FAIRWAY NORTH  
 PLAN AND PROFILE**

**BID DOCUMENTS**

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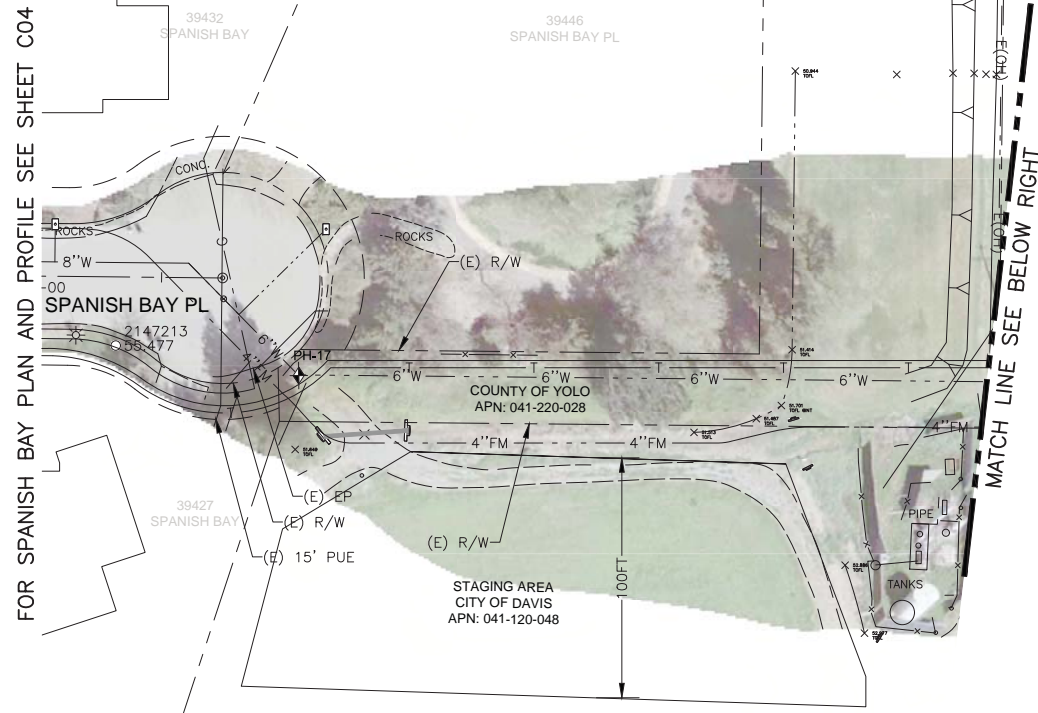
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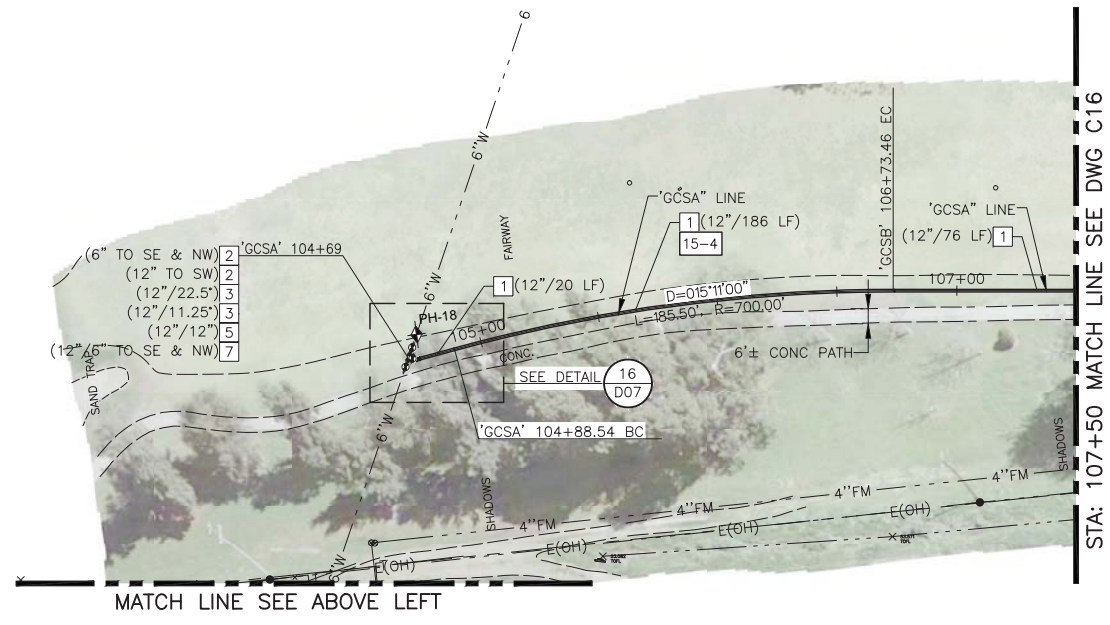
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**25 of 36**

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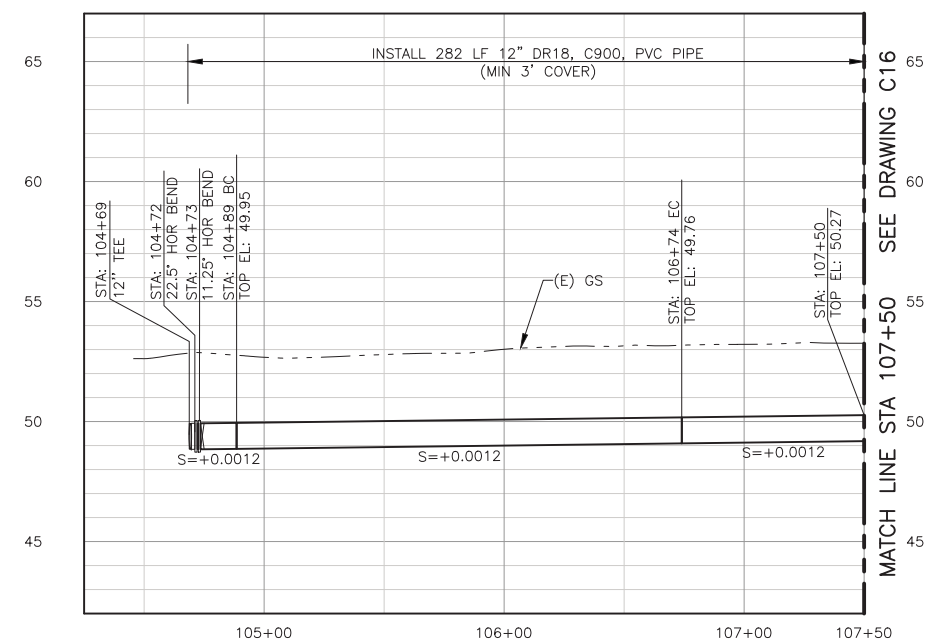
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**LINE 'GCSA' PLAN**  
SCALE IN FEET



**LINE 'GCSA' PLAN**  
SCALE IN FEET



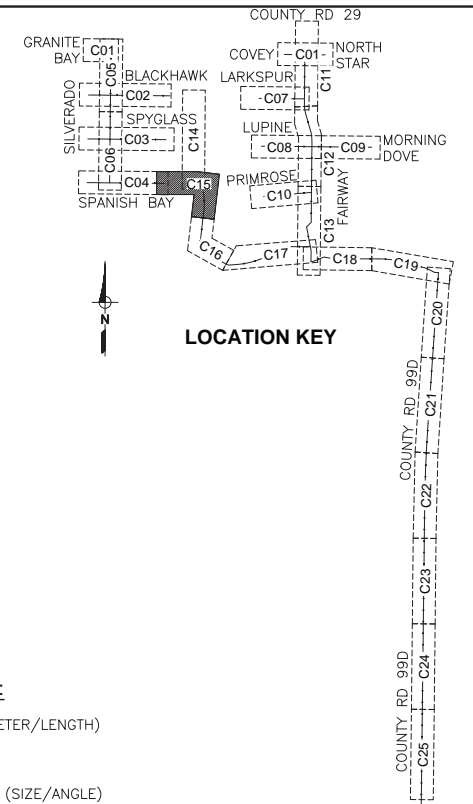
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SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 2 INSTALL GATE VALVE (SIZE)
- 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
- 4 INSTALL VERTICAL BEND (SIZE/ANGLE)
- 5 INSTALL TEE (SIZE/SIZE)
- 7 INSTALL REDUCER (SIZE/SIZE)
- 19 REMOVE AND REPLACE 6-INCH CONCRETE PATH TO AT LEAST 1-FOOT BEYOND TRENCH EXCAVATION LIMITS. SAWCUT THE REPLACEMENT LIMITS PERPENDICULAR TO THE EXISTING PATH. WHERE LIMITS PER THIS REQUIREMENT ARE WITHIN 2-FEET OF AN EXISTING JOINT, EXTEND SAWCUT & REPLACEMENT LIMIT TO THE EXISTING JOINT
- 29 INSTALL BLUE COMPOSITE UTILITY MARKER WITH DECAL STATING "CAUTION WATER PIPELINE" PER CITY STANDARDS.
- 30 INSTALL BRASS MARKER IN 8-INCH CONCRETE CYLINDER MARKED WITH "CITY OF DAVIS WATER MAIN". INSTALL PER CITY STANDARD, EXCEPT SET MARKER FLUSH WITH EXISTING GRADE.

**SPECIAL CONSTRUCTION NOTES:**

- 15-1 PROVIDE AND INSTALL ADDITIONAL TEMPORARY FITTINGS AND PIPING AS NEEDED FOR STAGED FILLING, TESTING, AND CONNECTION. REMOVE ALL TEMPORARY MATERIALS AND MAKE FINAL CONNECTION UNDER FULL-TIME INSPECTION.
- 15-2 POT HOLE TO CONFIRM LOCATION AND DEPTH OF EXISTING 6" WATER PRIOR TO TRENCHING FOR NEW WATER MAIN. ADJUST ALIGNMENT AS NEEDED TO MATCH.
- 15-3 CUT, DISCONNECT AND REMOVE EXISTING PIPE AT CONNECTION POINT AS NEEDED TO INSTALL NEW PIPE AND INSTALL MJ CAP ON REMAINING PIPE.  
INSTALL PIPE IN CURVED ALIGNMENT WITH DEFLECTION ONLY AT MECHANICAL JOINT (MJ) COUPLINGS ON PLAIN PIPE ENDS AS NECESSARY TO APPROXIMATE THE DESIGNED CURVE RADIUS WITHOUT EXCEEDING A TOTAL DEFLECTION OF 4 DEGREES THROUGH ANY OF THE COUPLINGS. INSTALL COUPLINGS WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING. CONTRACTOR SHALL NOT BEND PIPE. CONTRACTOR SHALL NOT DEFLECT (PULL) BELL AND SPIGOT JOINTS TO ACHIEVE CURVED PIPE ALIGNMENT.
- 15-5 ABANDON EXISTING UNUSED IRRIGATION SERVICE. LOCATE EXISTING CONNECTION TO MAIN. DISCONNECT AND CAP AT CORP STOP.
- 15-6 INSTALL 11.25 AND 22.5 BENDS BACK-TO-BACK WITH FLANGED CONNECTION.
- 15-7 EXISTING 6"W LOCATION NOT SURVEYED. FIELD FIT LOCATION OF 14" TEE TO CONNECT AS SHOWN.



DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

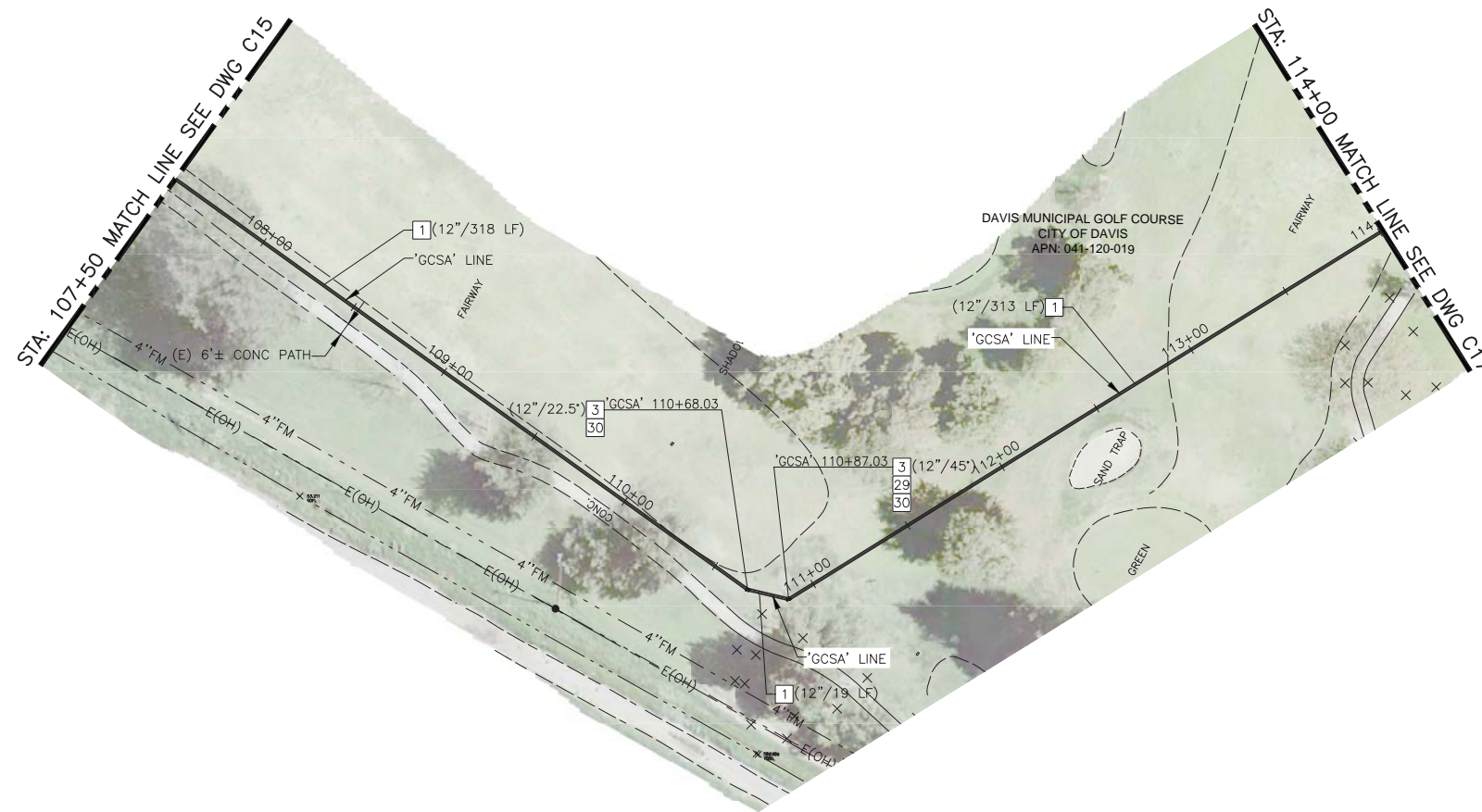
**WEST YOST ASSOCIATES**  
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FAX (530) 756-5991

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**  
GOLF COURSE FAIRWAY SOUTH A  
PLAN AND PROFILE 1

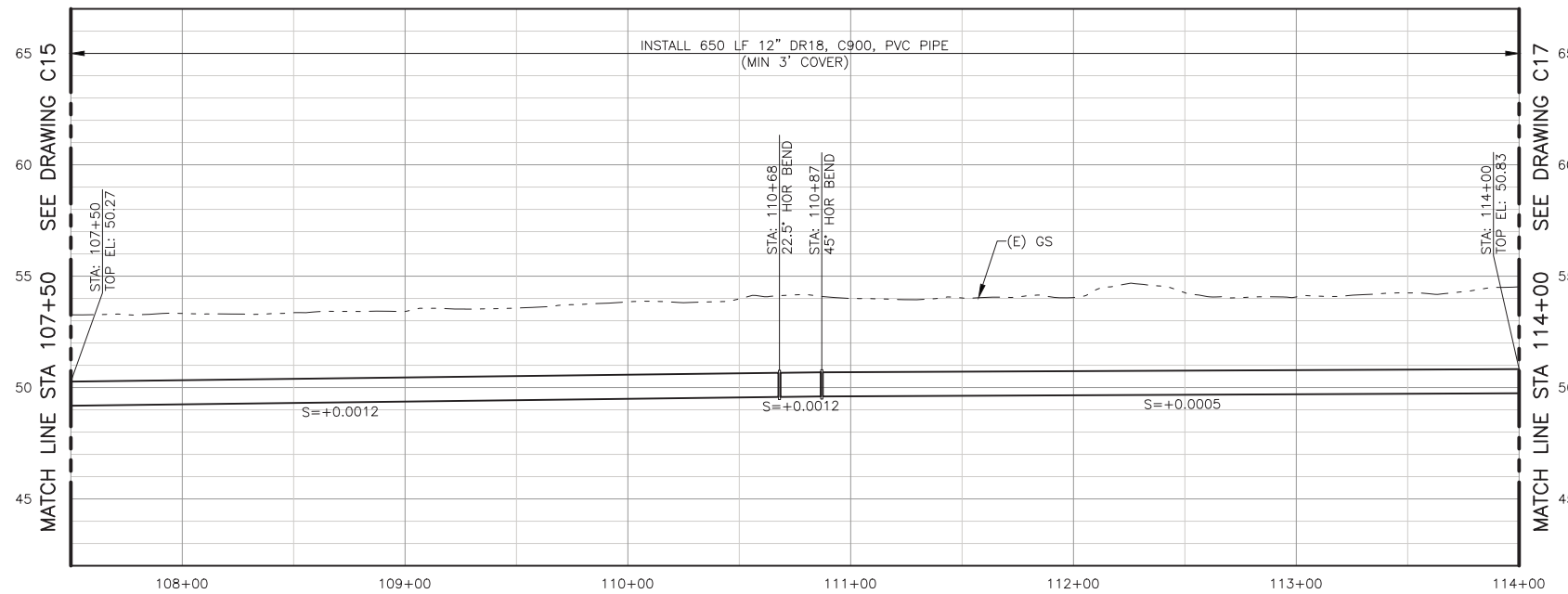
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DATE: 12/06/2018	SHEET NO <b>26 of 36</b>

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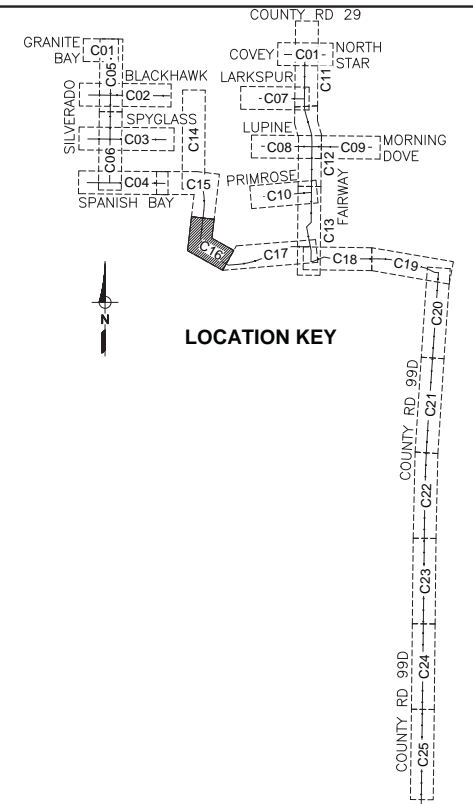
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**LINE 'GCSA' PLAN**  
SCALE IN FEET  
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**LINE 'GCSA' PROFILE**  
SCALE: H:1"=40', V:1"=4'



- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
  - 29 INSTALL BLUE COMPOSITE UTILITY MARKER WITH DECAL STATING "CAUTION WATER PIPELINE" PER CITY STANDARDS.
  - 30 INSTALL BRASS MARKER IN 8-INCH CONCRETE CYLINDER MARKED WITH "CITY OF DAVIS WATER MAIN". INSTALL PER CITY STANDARD, EXCEPT SET MARKER FLUSH WITH EXISTING GRADE.

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DESIGN ENGINEER  
 BY ASA J. UTTERBACK  
 ENGINEER'S NAME  
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 REGISTRATION EXPIRES 12/31/2019

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**BID DOCUMENTS**

COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT

GOLF COURSE FAIRWAY SOUTH A  
 PLAN AND PROFILE 2

SCALE  
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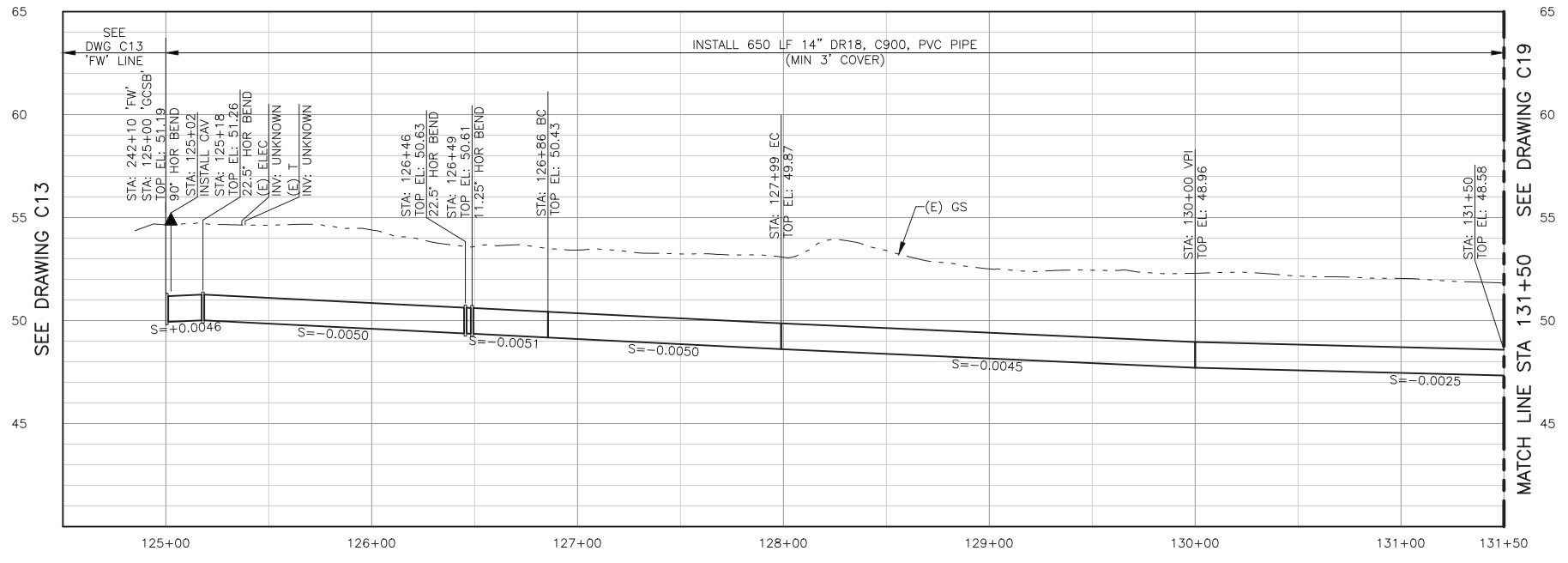
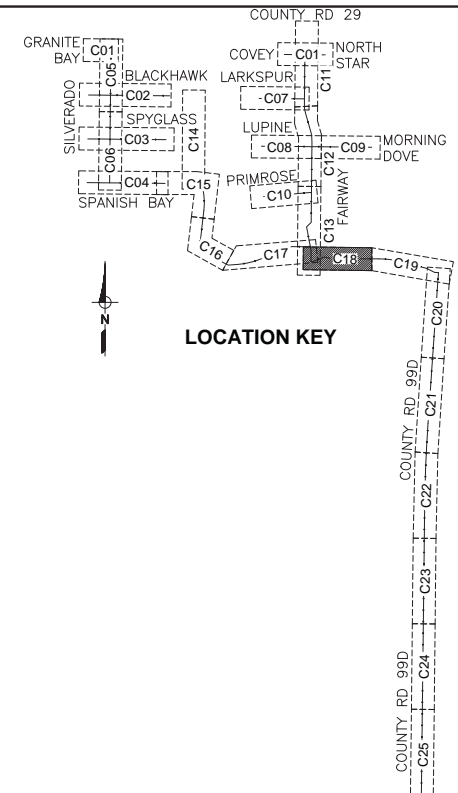
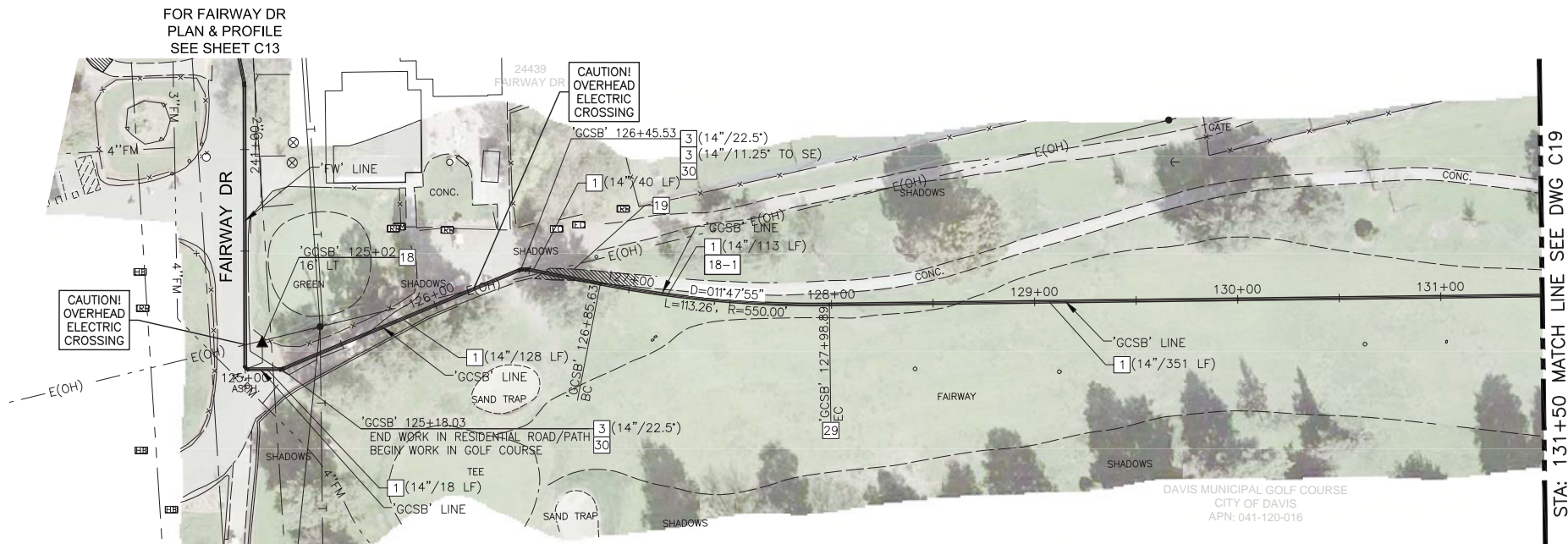
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LINE 'GCSB' PROFILE  
SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
- 18 INSTALL COMBINATION AIR/VACUUM VALVE ASSEMBLY COMPLETE WITH 1-INCH SERVICE PER DETAIL 5/SHT D04  
REMOVE AND REPLACE 6-INCH CONCRETE PATH TO AT LEAST 1-FOOT BEYOND TRENCH EXCAVATION LIMITS. SAWCUT THE REPLACEMENT LIMITS PERPENDICULAR TO THE EXISTING PATH. WHERE LIMITS PER THIS REQUIREMENT ARE WITHIN 2- FEET OF AN EXISTING JOINT, EXTEND SAWCUT & REPLACEMENT LIMIT TO THE EXISTING JOINT
- 19 INSTALL BLUE COMPOSITE UTILITY MARKER WITH DECAL STATING "CAUTION WATER PIPELINE" PER CITY STANDARDS.
- 29 INSTALL BRASS MARKER IN 8-INCH CONCRETE CYLINDER MARKED WITH "CITY OF DAVIS WATER MAIN". INSTALL PER CITY STANDARD, EXCEPT SET MARKER FLUSH WITH EXISTING GRADE.

**SPECIAL CONSTRUCTION NOTES:**

- 18-1 INSTALL PIPE IN CURVED ALIGNMENT WITH DEFLECTION ONLY AT MECHANICAL JOINT (MJ) COUPLINGS ON PLAIN PIPE ENDS AS NECESSARY TO APPROXIMATE THE DESIGNED CURVE RADIUS WITHOUT EXCEEDING A TOTAL DEFLECTION OF 4 DEGREES THROUGH ANY OF THE COUPLINGS. INSTALL COUPLINGS WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING. CONTRACTOR SHALL NOT BEND PIPE. CONTRACTOR SHALL NOT DEFLECT (PULL) BELL AND SPIGOT JOINTS TO ACHIEVE CURVED PIPE ALIGNMENT.

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DESIGN ENGINEER  
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ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**  
GOLF COURSE FAIRWAY SOUTH B  
PLAN AND PROFILE 1

**BID DOCUMENTS**

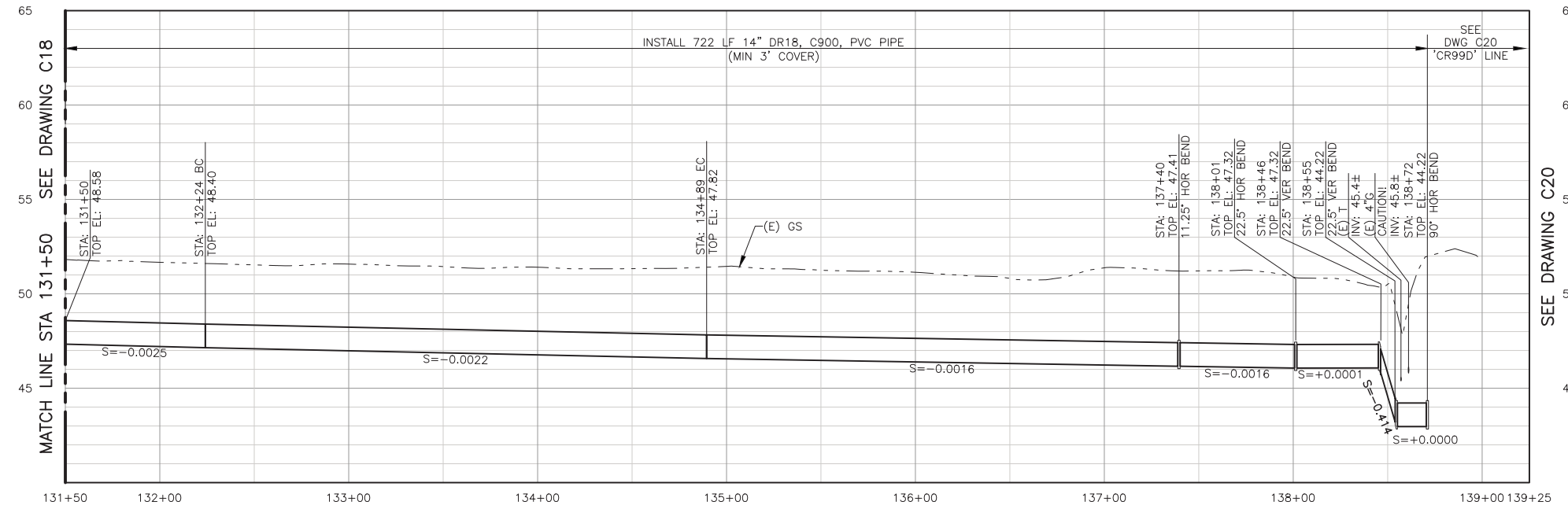
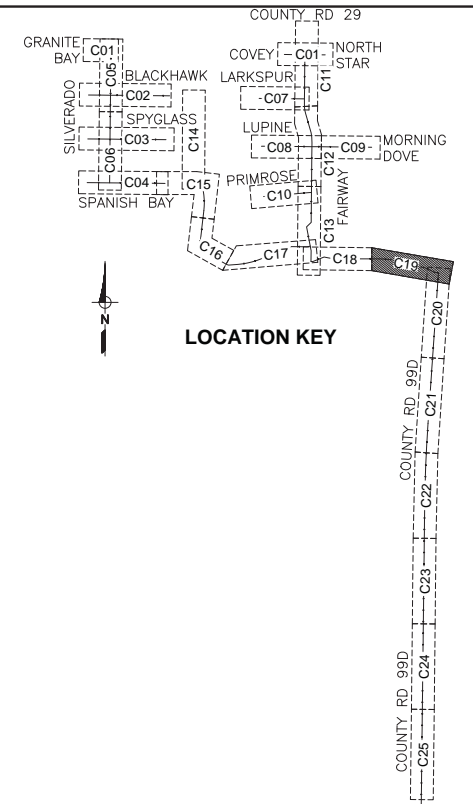
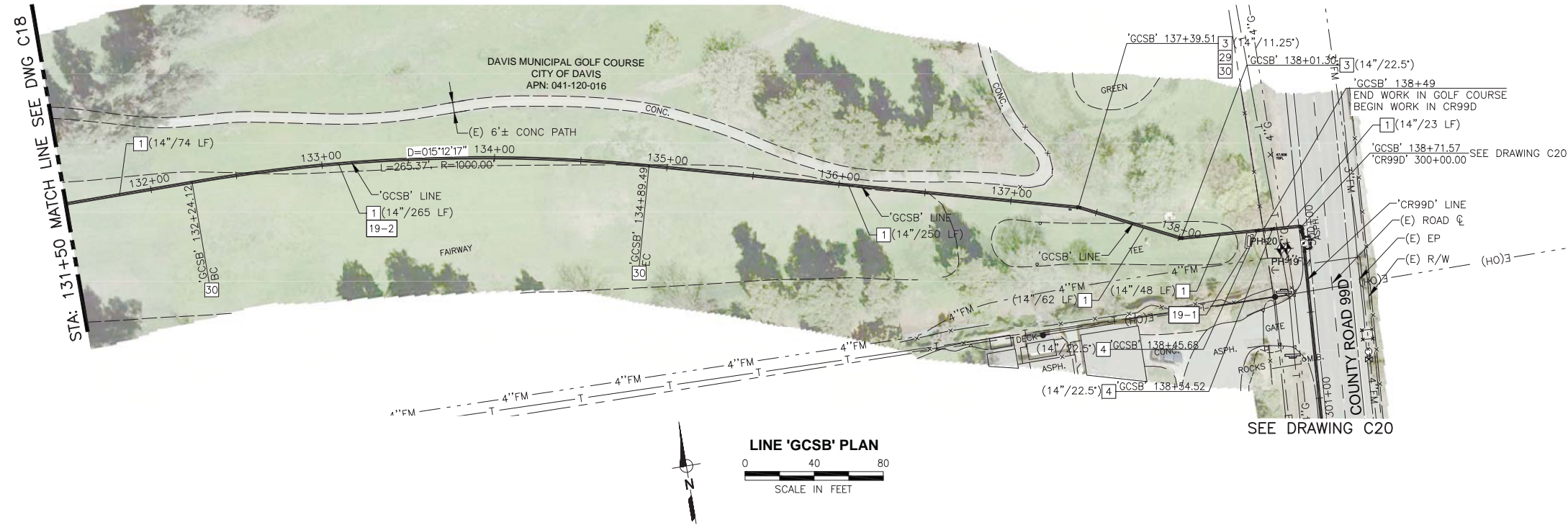
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**C18**

DATE: 12/06/2018

SHEET NO  
**29 of 36**

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- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 2 INSTALL GATE VALVE (SIZE)
  - 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
  - 4 INSTALL VERTICAL BEND (SIZE/ANGLE)
  - 20 INSTALL 6-INCH BYPASS WITH VALVES PER DETAIL 6, SHT D05
  - 29 INSTALL BLUE COMPOSITE UTILITY MARKER WITH DECAL STATING "CAUTION WATER PIPELINE" PER CITY STANDARDS.
  - 30 INSTALL BRASS MARKER IN 8-INCH CONCRETE CYLINDER MARKED WITH "CITY OF DAVIS WATER MAIN". INSTALL PER CITY STANDARD, EXCEPT SET MARKER FLUSH WITH EXISTING GRADE.

- SPECIAL CONSTRUCTION NOTES:**
- 19-1 REMOVE AND REPLACE EXISTING BENCH AND CONCRETE PAD IN KIND AS NEEDED FOR PIPE CONSTRUCTION. RESTORE TO EQUAL OR BETTER CONDITION.
  - 19-2 INSTALL PIPE IN CURVED ALIGNMENT WITH DEFLECTION ONLY AT MECHANICAL JOINT (MJ) COUPLINGS ON PLAIN PIPE ENDS AS NECESSARY TO APPROXIMATE THE DESIGNED CURVE RADIUS WITHOUT EXCEEDING A TOTAL DEFLECTION OF 4 DEGREES THROUGH ANY OF THE COUPLINGS. INSTALL COUPLINGS WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING. CONTRACTOR SHALL NOT BEND PIPE. CONTRACTOR SHALL NOT DEFLECT (PULL) BELL AND SPIGOT JOINTS TO ACHIEVE CURVED PIPE ALIGNMENT.

**LINE 'GCSB' PROFILE**  
SCALE: H:1"=40', V:1"=4'

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NO.	BY	DATE	REVISION	APP'D	DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
**NORTH DAVIS MEADOWS WATER SYSTEM CONSOLIDATION PROJECT**  
GOLF COURSE FAIRWAY SOUTH B  
PLAN AND PROFILE 2

**BID DOCUMENTS**

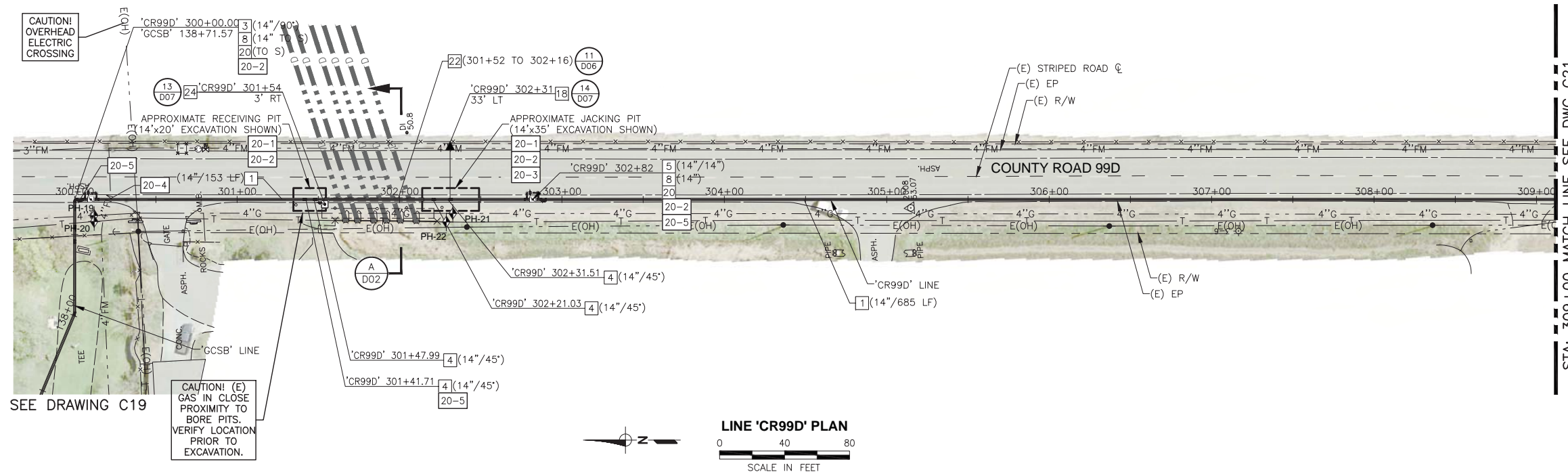
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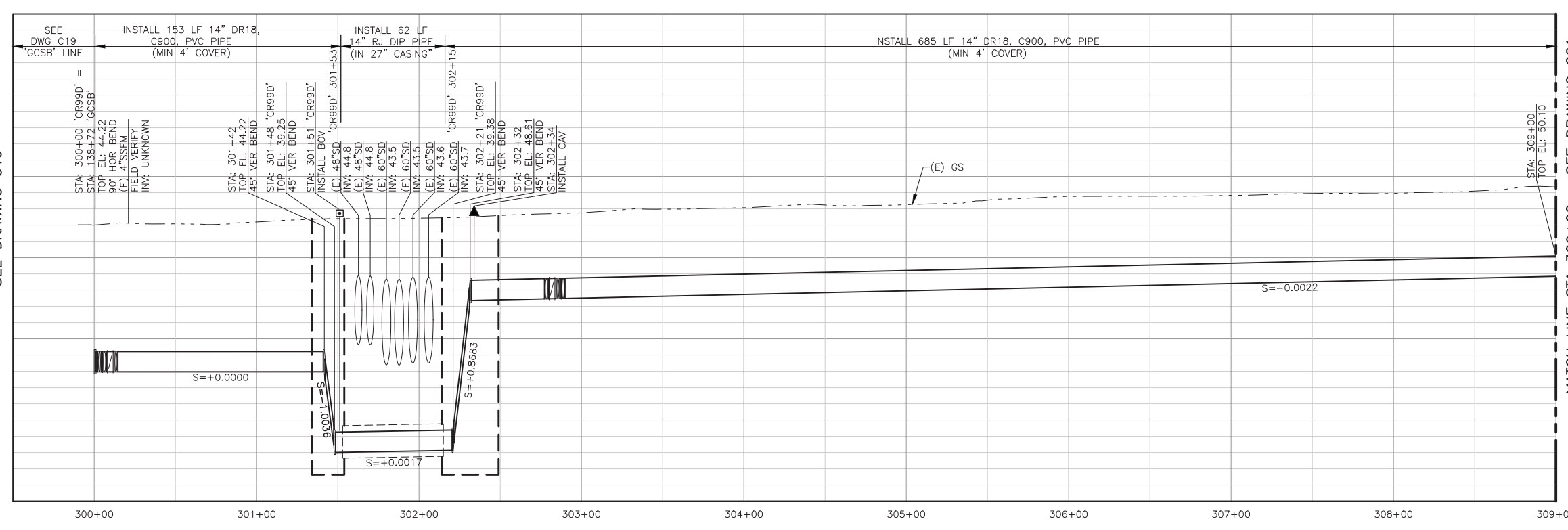
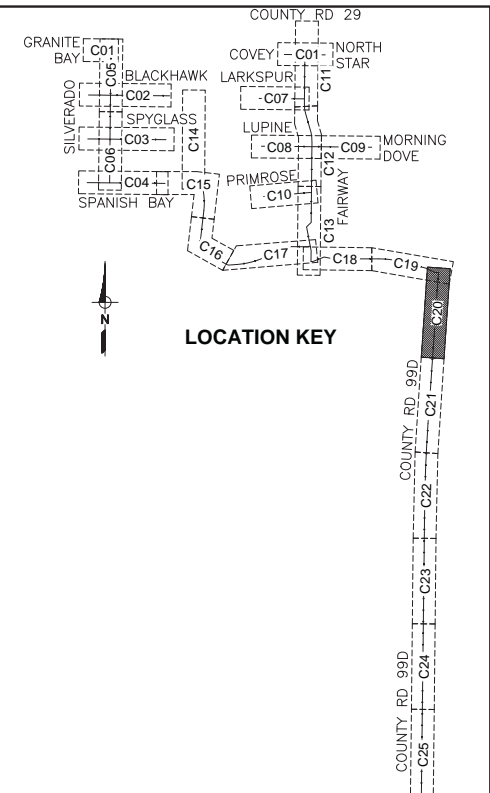
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**30 of 36**

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LINE 'CR99D' PLAN  
SCALE IN FEET



LINE 'CR99D' PROFILE  
SCALE: H:1"=40', V:1"=4'

CONSTRUCTION NOTES:

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
- 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
- 4 INSTALL VERTICAL BEND (SIZE/ANGLE)
- 5 INSTALL TEE (SIZE/SIZE)
- 8 INSTALL BUTTERFLY VALVE (SIZE)
- 18 INSTALL COMBINATION AIR/VACUUM VALVE ASSEMBLY COMPLETE WITH 1-INCH SERVICE PER DETAIL 5, SHT D04
- 20 INSTALL 6-INCH BYPASS WITH VALVES PER DETAIL 6, SHT D05
- 22 INSTALL 16-INCH RJ DUCTILE IRON WATER PIPE IN 27-INCH STEEL CASING BY BORE AND JACK METHOD PER DETAIL 11, SHT D06
- 24 INSTALL 4-INCH LOW-POINT BLOW OFF ASSEMBLY PER DETAIL 7, SHT D05

SPECIAL CONSTRUCTION NOTES:

- 20-1 VERIFY LOCATION OF EXISTING GAS PIPELINE AT EACH PIT FOR THE BORE AND JACK PRIOR TO EXCAVATION OF PIT. OFFSETTING OF PIT FROM BORE CENTERLINE MAY BE REQUIRED.
- 20-2 WHERE EXCAVATION REMOVES, UNDERMINES, OR DAMAGES EXISTING PAVEMENT WITHIN THE EXISTING VEHICLE TRAVEL LANE, CONTRACTOR SHALL PERFORM FULL WIDTH OF 0.15' DEEP GRIND AND REPAVE OF ENTIRE LANE TO 10' BEYOND THE EXCAVATION/DAMAGE LIMITS IN EACH DIRECTION.
- 20-3 CONSTRUCTION OF THE BORE AND JACKED PIPE INSTALLATION IS PLANNED TO ALLOW FOR FULL CLOSURE OF COUNTY ROAD 99D IN BOTH DIRECTIONS WITH DETOURING OF TRAFFIC FOR UP TO THREE (3) WEEKS. CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL AND DETOUR PLANS AND CONFORM TO ALL TRAFFIC CONTROL AND NOTIFICATION REQUIREMENTS IN THESE CONTRACT PLANS AND SPECIFICATIONS FOR ANY LANE/ROAD CLOSURE UNDER THIS ALLOWANCE.
- 20-4 LOCATION AND DEPTH OF EXISTING 4" SSFM NOT CONFIRMED. CONTRACTOR SHALL POT HOLE TO LOCATE AND CONFIRM DEPTH PRIOR TO BEGINNING TRENCH EXCAVATION BETWEEN 'GCSB' 138+50 AND 'CR99D' 301+42
- 20-5 INSTALL TEE FOR POSSIBLE FUTURE USE WITH OPENING TO WEST. INSTALL BLIND-FLANGE ON TEE.

BID DOCUMENTS

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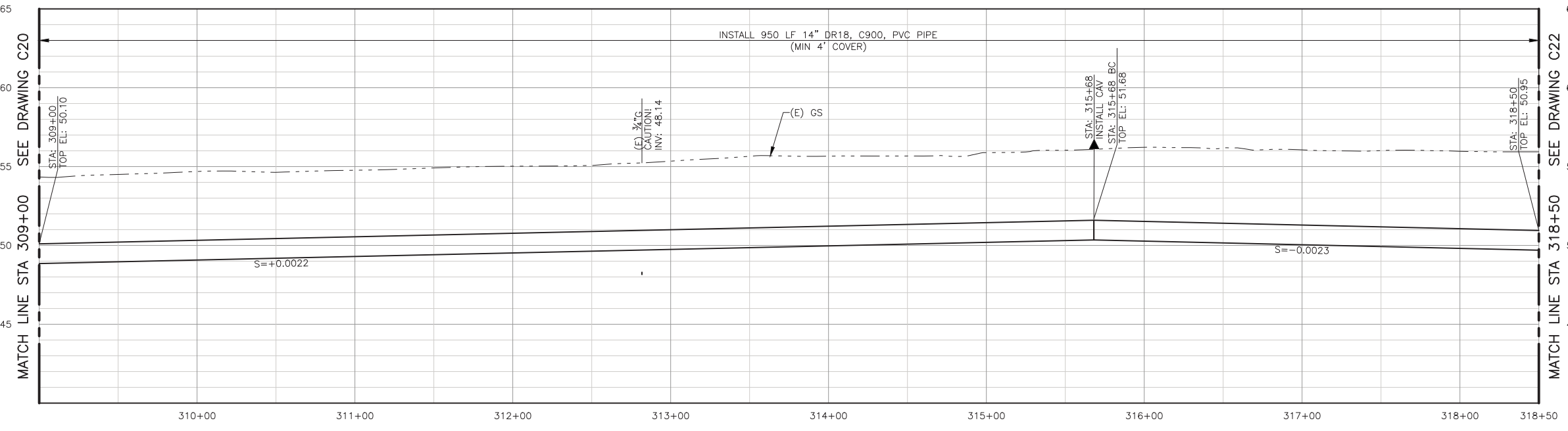
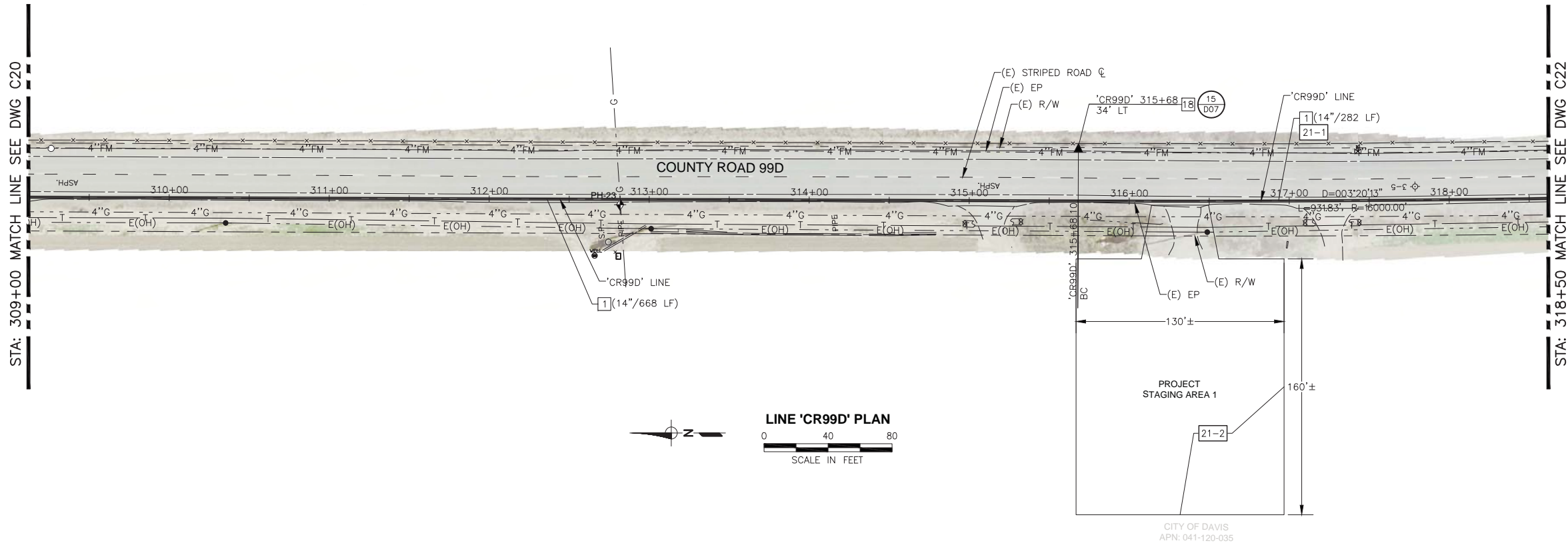
DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

**WEST YOST ASSOCIATES**  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT  
COUNTY ROAD 99D  
PLAN AND PROFILE 1

SCALE  
AS SHOWN  
DATE: 12/06/2018  
DWG NO  
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31 of 36

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LINE 'CR99D' PROFILE  
SCALE: H:1"=40', V:1"=4'

- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 18 INSTALL COMBINATION AIR/VACUUM VALVE ASSEMBLY COMPLETE WITH 1-INCH SERVICE PER DETAIL 5, SHT D04
- SPECIAL CONSTRUCTION NOTES:**
- 21-1 INSTALL PIPE IN CURVED ALIGNMENT WITH DEFLECTION ONLY AT MECHANICAL JOINT (MJ) COUPLINGS ON PLAIN PIPE ENDS AS NECESSARY TO APPROXIMATE THE DESIGNED CURVE RADIUS WITHOUT EXCEEDING A TOTAL DEFLECTION OF 4 DEGREES THROUGH ANY OF THE COUPLINGS. INSTALL COUPLINGS WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING. CONTRACTOR SHALL NOT BEND PIPE. CONTRACTOR SHALL NOT DEFLECT (PULL) BELL AND SPIGOT JOINTS TO ACHIEVE CURVED PIPE ALIGNMENT.
  - 21-2 STAGING AREA LIMITS SHOWN ARE APPROXIMATE. LIMITS OF STAGING AREA WILL BE 50 FEET CLEAR FROM DITCHES AND TILLED GROUND OF SURROUNDING ACTIVELY FARMED LAND. SEE STAGING AREA REQUIREMENTS NOTED ON SHEET G03 OF THESE PLANS.

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT  
COUNTY ROAD 99D  
PLAN AND PROFILE 2

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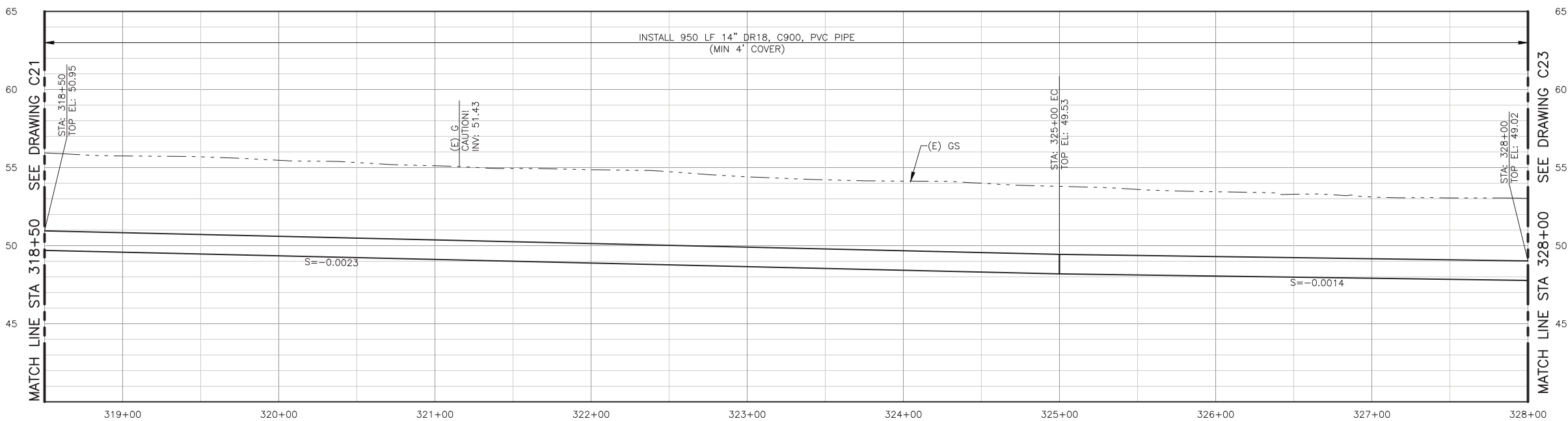
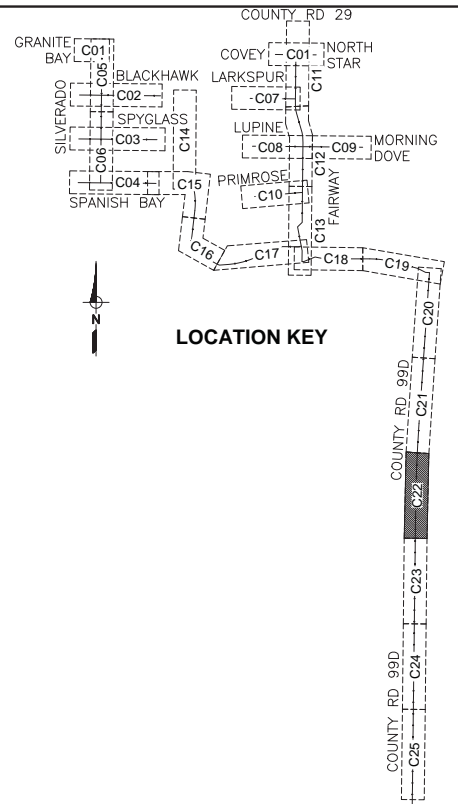
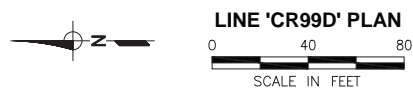
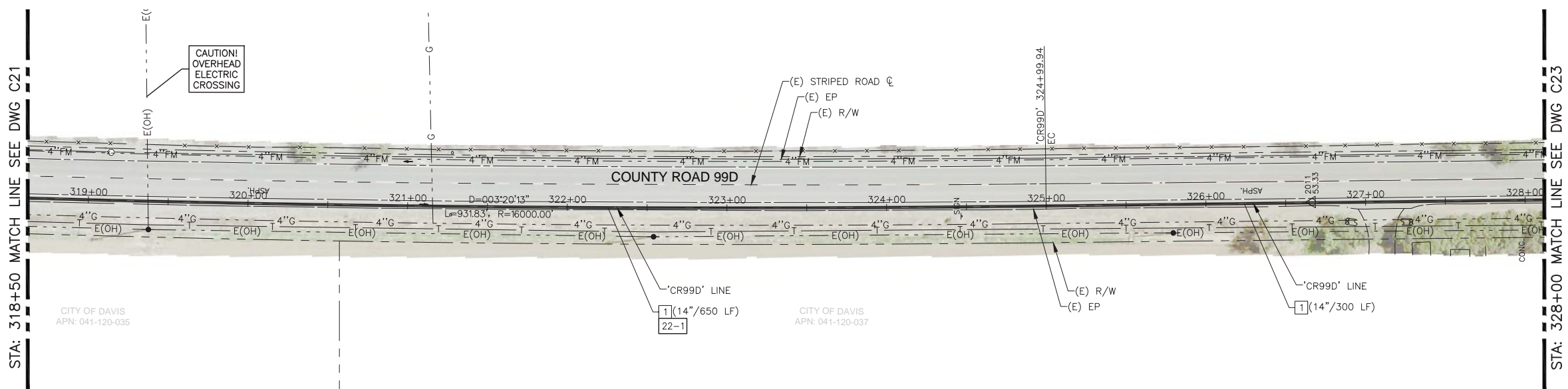
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DATE: 12/06/2018

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**32 of 36**



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LINE 'CR99D' PROFILE

SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**

- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)

**SPECIAL CONSTRUCTION NOTES:**

22-1 INSTALL PIPE IN CURVED ALIGNMENT WITH DEFLECTION ONLY AT MECHANICAL JOINT (MJ) COUPLINGS ON PLAIN PIPE ENDS AS NECESSARY TO APPROXIMATE THE DESIGNED CURVE RADIUS WITHOUT EXCEEDING A TOTAL DEFLECTION OF 4 DEGREES THROUGH ANY OF THE COUPLINGS. INSTALL COUPLINGS WITH EQUAL DEFLECTIONS ON EACH JOINT OF THE COUPLING. CONTRACTOR SHALL NOT BEND PIPE. CONTRACTOR SHALL NOT DEFLECT (PULL) BELL AND SPIGOT JOINTS TO ACHIEVE CURVED PIPE ALIGNMENT.

**BID DOCUMENTS**

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 ENGINEER'S NAME  
 DATE JANUARY 12, 2018 P.E. C57700  
 REGISTRATION EXPIRES 12/31/2019

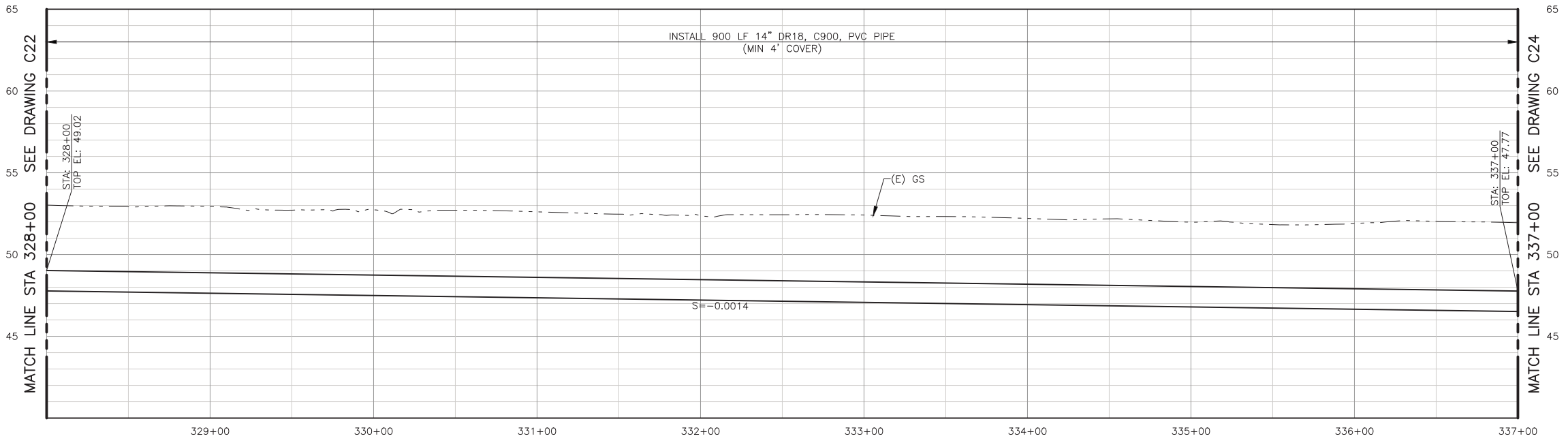
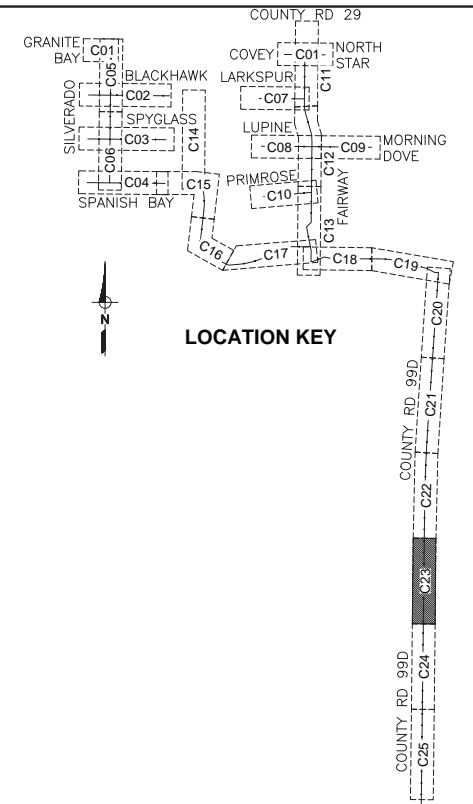
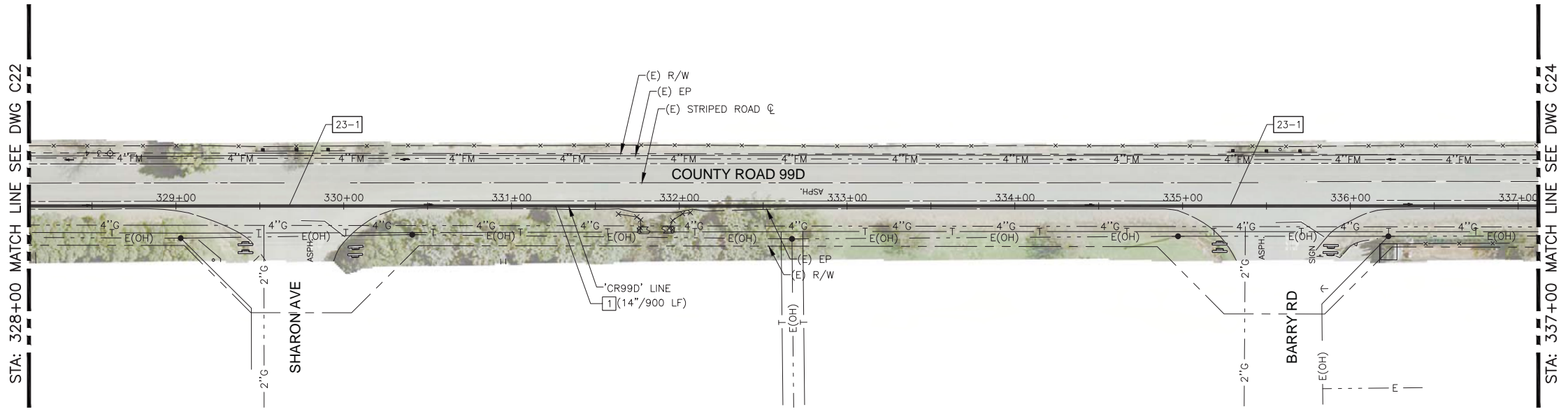


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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
 IMPROVEMENT PLANS FOR  
 NORTH DAVIS MEADOWS WATER SYSTEM  
 CONSOLIDATION PROJECT  
 COUNTY ROAD 99D  
 PLAN AND PROFILE 3

SCALE	DWG NO
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DATE: 12/06/2018	SHEET NO
	33 of 36

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**CONSTRUCTION NOTES:**

1 INSTALL WATER PIPE (DIAMETER/LENGTH)

**SPECIAL CONSTRUCTION NOTES:**

23-1 PIPE INSTALLATION IS PLANNED TO ALLOW FOR TEMPORARY PARTIAL OR FULL CLOSURE OF ONLY ONE SIDE STREET AT A TIME WHERE IT CONNECTS TO COUNTY ROAD 99D WITH DETOURING OF TRAFFIC TO THE OTHER SIDE STREET FOR UP TO ONE DAY. CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL AND DETOUR PLANS AND CONFORM TO ALL TRAFFIC CONTROL AND NOTIFICATION REQUIREMENTS IN THESE CONTRACT PLANS AND SPECIFICATIONS FOR ANY LANE/ROAD CLOSURE UNDER THIS ALLOWANCE.

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DESIGN ENGINEER

BY ASA J. UTTERBACK

ENGINEER'S NAME

DATE JANUARY 12, 2018 P.E. C57700

REGISTRATION EXPIRES 12/31/2019

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT

COUNTY ROAD 99D  
PLAN AND PROFILE 4

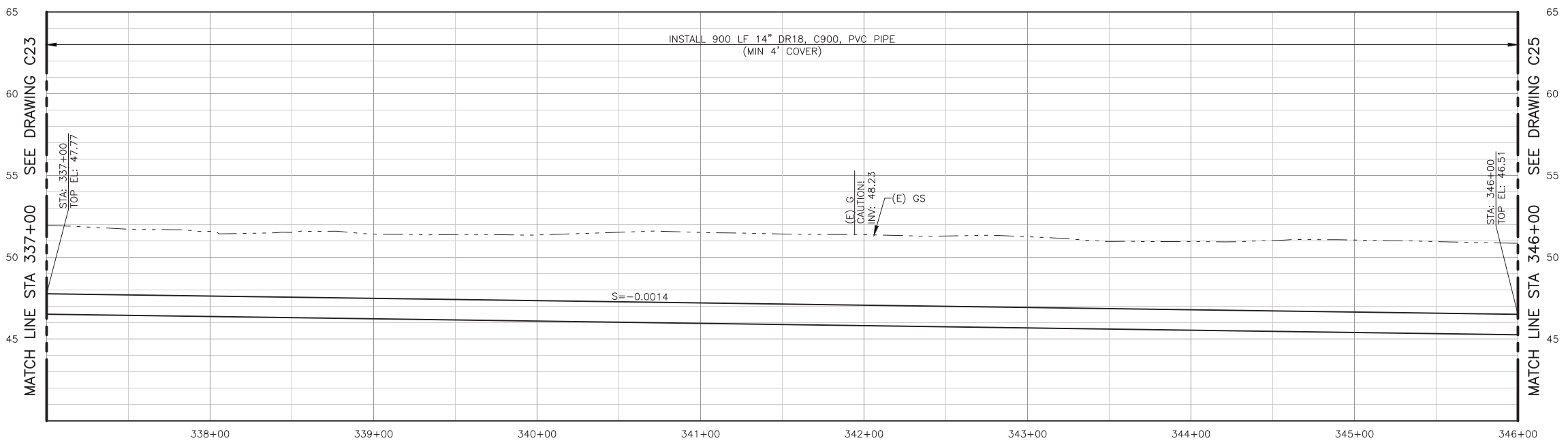
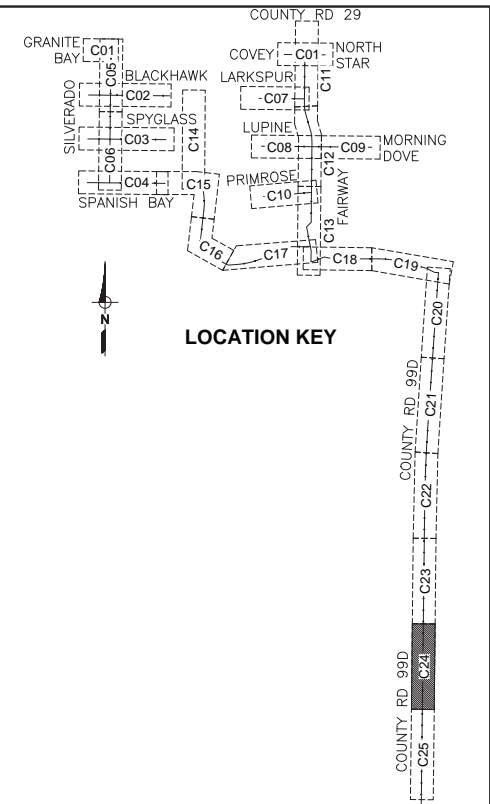
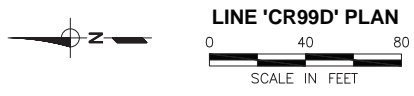
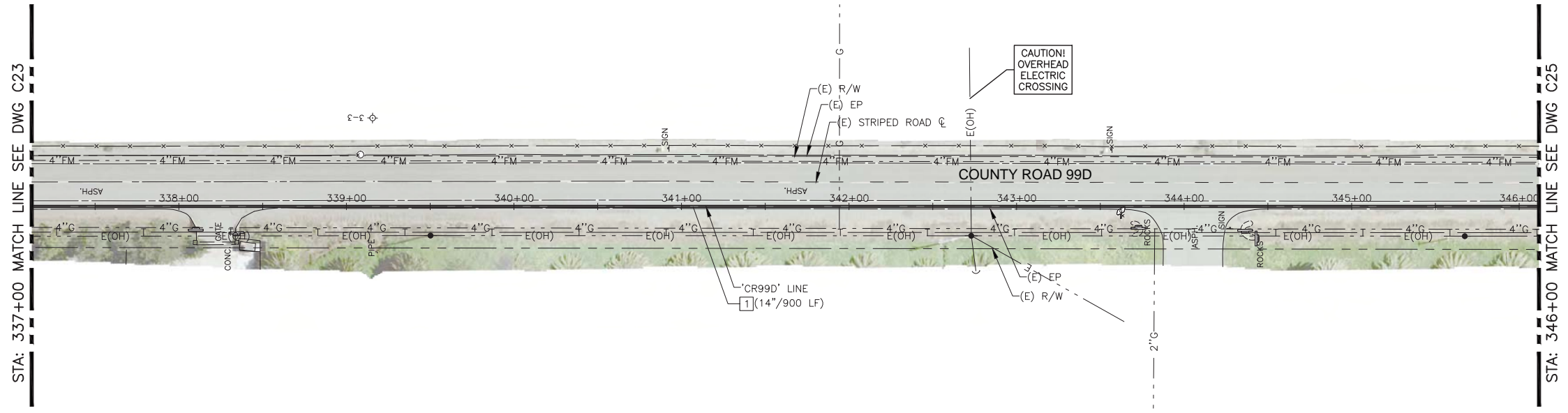
SCALE  
AS SHOWN

DATE: 12/06/2018

DWG NO  
**C23**

SHEET NO  
**34 of 36**

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**LINE 'CR99D' PROFILE**  
SCALE: H:1"=40', V:1"=4'

**CONSTRUCTION NOTES:**  
1 INSTALL WATER PIPE (DIAMETER/LENGTH)

DESIGNED <u>AJU</u>					
DRAWN <u>JRR</u>					
CHECKED <u>KLW</u>					
	NO.	BY	DATE	REVISION	APP'D DATE

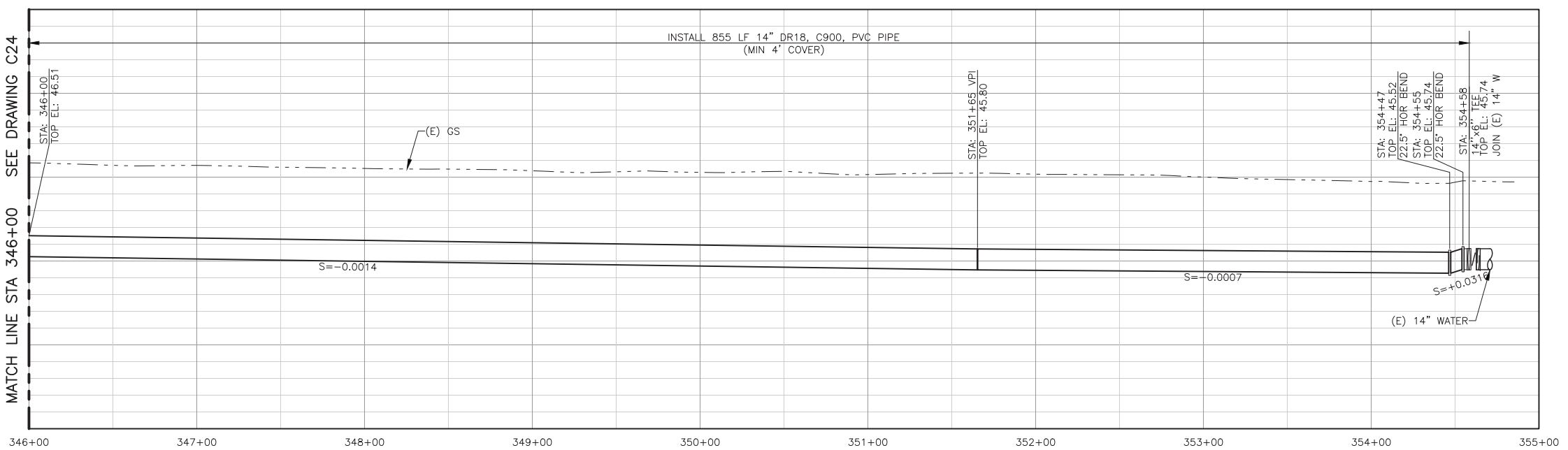
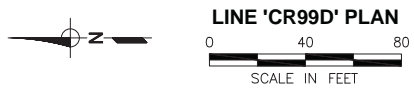
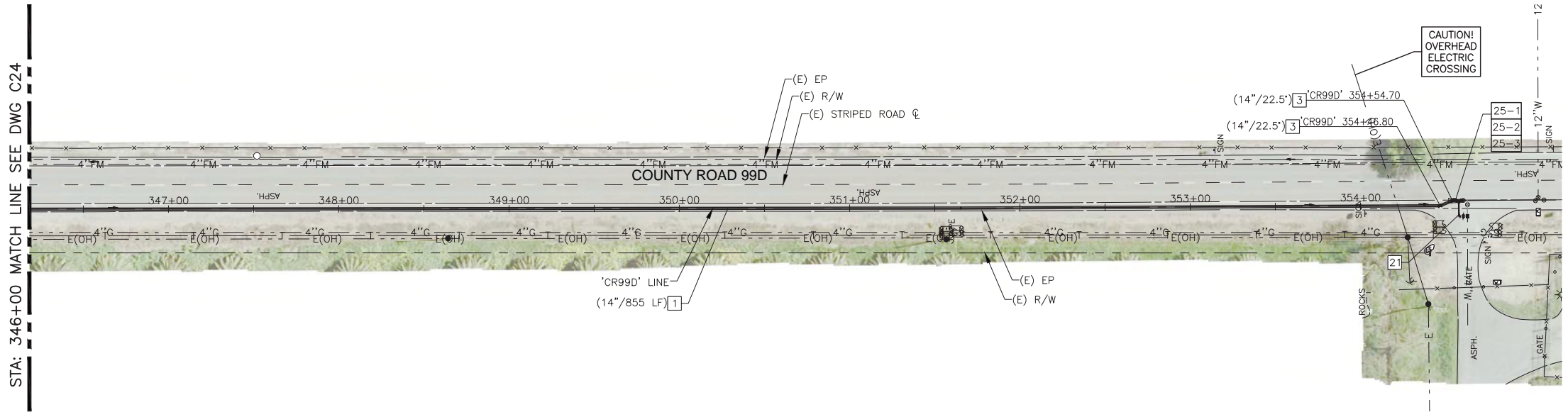
DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

**WEST YOST ASSOCIATES**  
2020 Research Park Drive  
Suite 100  
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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT  
**COUNTY ROAD 99D  
PLAN AND PROFILE 5**

<b>BID DOCUMENTS</b>	
SCALE AS SHOWN	DWG NO <b>C24</b>
DATE: 12/06/2018	SHEET NO <b>35 of 36</b>

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LINE 'CR99D' PROFILE  
SCALE: H:1"=40', V:1"=4'

- CONSTRUCTION NOTES:**
- 1 INSTALL WATER PIPE (DIAMETER/LENGTH)
  - 3 INSTALL HORIZONTAL BEND (SIZE/ANGLE)
  - 21 INSTALL 6-INCH BYPASS WITH VALVES AND HOT-TAP PER DETAIL 10, SHT D05

- SPECIAL CONSTRUCTION NOTES:**
- 25-1 REMOVE BLOW-OFF ASSEMBLY AND CONNECT TO EXISTING 14-INCH WATER UNDER CONTINUOUS INSPECTION
  - 25-2 PROVIDE AND INSTALL ADDITIONAL FITTINGS AND PIPING AS NEEDED FOR STAGED FILLING, TESTING, AND CONNECTION. REMOVE ALL TEMPORARY MATERIALS AND MAKE FINAL CONNECTIONS UNDER FULL-TIME INSPECTION
  - 25-3 CONTRACTOR SHALL INSTALL TEMPORARY BACKFLOW-PROTECTED CONNECTION TO CITY SYSTEM TO REMAIN IN PLACE UNTIL ALL PORTIONS OF PIPE SYSTEM WITHIN PROJECT AREA ARE TESTED AND CONNECTED. CONTRACTOR SHALL COORDINATE DISCONNECTION OF EXISTING WELLS TO OCCUR IMMEDIATELY AFTER AND WITHIN SAME WORKING DAY AS FINAL CONNECTION AND REMOVAL OF TEMPORARY BACKFLOW AT THIS TIE-IN.

DESIGNED	AJU				
DRAWN	JRR				
CHECKED	KLW				
NO.	BY	DATE	REVISION	APP'D	DATE

DESIGN ENGINEER  
BY ASA J. UTTERBACK  
ENGINEER'S NAME  
DATE JANUARY 12, 2018 P.E. C57700  
REGISTRATION EXPIRES 12/31/2019

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COUNTY OF YOLO DEPARTMENT OF COMMUNITY SERVICES  
IMPROVEMENT PLANS FOR  
NORTH DAVIS MEADOWS WATER SYSTEM  
CONSOLIDATION PROJECT  
**COUNTY ROAD 99D  
PLAN AND PROFILE 6**

**BID DOCUMENTS**

SCALE  
AS SHOWN

DWG NO  
**C25**

DATE: 12/06/2018

SHEET NO  
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