

ABBREVIATIONS:

AC - ASPHALT CONCRETE	JT - JOINT TRENCH
AB - AGGREGATE BASE	LIP - LIP OF GUTTER
APPROX. - APPROXIMATELY	L.S. - LONG SWEEP
AVE. - AVENUE	
BC - BEGIN CURVE	MH - MANHOLE
B/O - BLOW OFF VALVE	MON. - MONUMENT
C&G - CURB AND GUTTER	OG - ORIGINAL GROUND
CL - CENTER LINE	
C.O.T.G. - CLEAN OUT TO GRADE	P. - PROPOSED
CR - CURB RETURN	PC - POINT OF CURVATURE
CULV. - CULVERT	PL - PROPERTY LINE
DI - DRAIN INLET	PP - POWER POLE
DTL - DETAIL	PT - POINT OF TANGENCY
D/W - DRIVEWAY	PUE - PUBLIC UTILITY ESMT.
	R/W - RIGHT-OF-WAY
EC - END CURVE	SCH - SCHEDULE
EL - ELEVATION	SD - STORM SEWER
EP - EDGE OF PAVEMENT	SHT - SHEET
ESMT. - EASEMENT	SS - SANITARY SEWER
EX. - EXISTING	ST. - STREET
EXP. - EXPIRES	STA. - STATION
	STD. - STANDARD
F.E.S. - FLARED END SECTION	S/W - SIDEWALK
FDC - FIRE DEPT. CONNECTION	
FH - FIRE HYDRANT	TBC - TOP BACK OF CURB
FL - FLOW LINE	TBW - TOP BACK OF WALK
FM - SEWER FORCE MAIN	TOE - TOE OF SLOPE
FND. - FOUND	TOP - TOP OF SLOPE
	TP - TELEPHONE POLE
GB - GRADE BREAK	
HORIZ. - HORIZONTAL	VERT. - VERTICAL
HP - HIGH POINT	
	w/ - WITH
INTX. - INTERSECTION	w - WATER
INV. - INVERT	WM - WATER METER
I.P. - IRON PIPE	WV - WATER VALVE
JP - JOINT POLE	

LEGEND

	FOUND MONUMENT
	LOT LINES
	CENTERLINE
	RIGHT-OF-WAY LINES
	EX. BUILDINGS AND SHEDS
	EX. STORM DRAIN PIPES
	EX. HOODED STORM DRAIN INLET (AS NOTED)
	EX. SANITARY SEWER LATERALS
	EX. SD OR SS MANHOLE
	EX. WATER MAINS
	EX. WATER SERVICE
	EX. WATER METER
	EX. FIRE HYDRANT (w/GATE VALVE)
	EX. GATE VALVE
	EX. BLOW-OFF VALVE
	EX. UNDERGROUND GAS MAINS
	EX. UNDERGROUND GAS SERVICE
	EX. OVERHEAD POWER AND UTILITY WIRES
	EX. POWER OR JOINT POLES (AS NOTED)
	EX. POWER w/GUY WIRE (AS NOTED)
	EX. CURB, GUTTER, SIDEWALK & OTHER CONC. IMP.
	EX. EDGE OF PAVEMENT
	EX. CHAIN LINK FENCING
	EX. WOOD FENCING (CONDITION NOTED)
	EX. MISC. IMPROVEMENTS (AS NOTED)
	EX. 1 FT. CONTOURS (w/ELEV.)
	EX. TREE DRIP LINES
	EX. SMALL TREES AND/OR SHRUBS

UTILITY REPRESENTATIVES

UTILITY	COMPANY	CONTACT	PHONE
SEWER	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-4941
DRAINAGE	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-2215
WATER	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-4941
IRRIG. WATER	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-4941
FIRE	COLUSA FIRE DEPARTMENT	STAFF	(530) 458-5890
CABLE TV	COMCAST	AGENT	(800) 934-6489
ELECTRICAL	PACIFIC GAS & ELECTRIC (PG&E)	STAFF	(877) 743-7782
GAS	PACIFIC GAS & ELECTRIC (PG&E)	STAFF	(877) 743-7782
PHONE	AT&T	STAFF	(855) 637-9525
USA	UNDERGROUND SERVICE ALERT	STAFF	(800) 227-2600

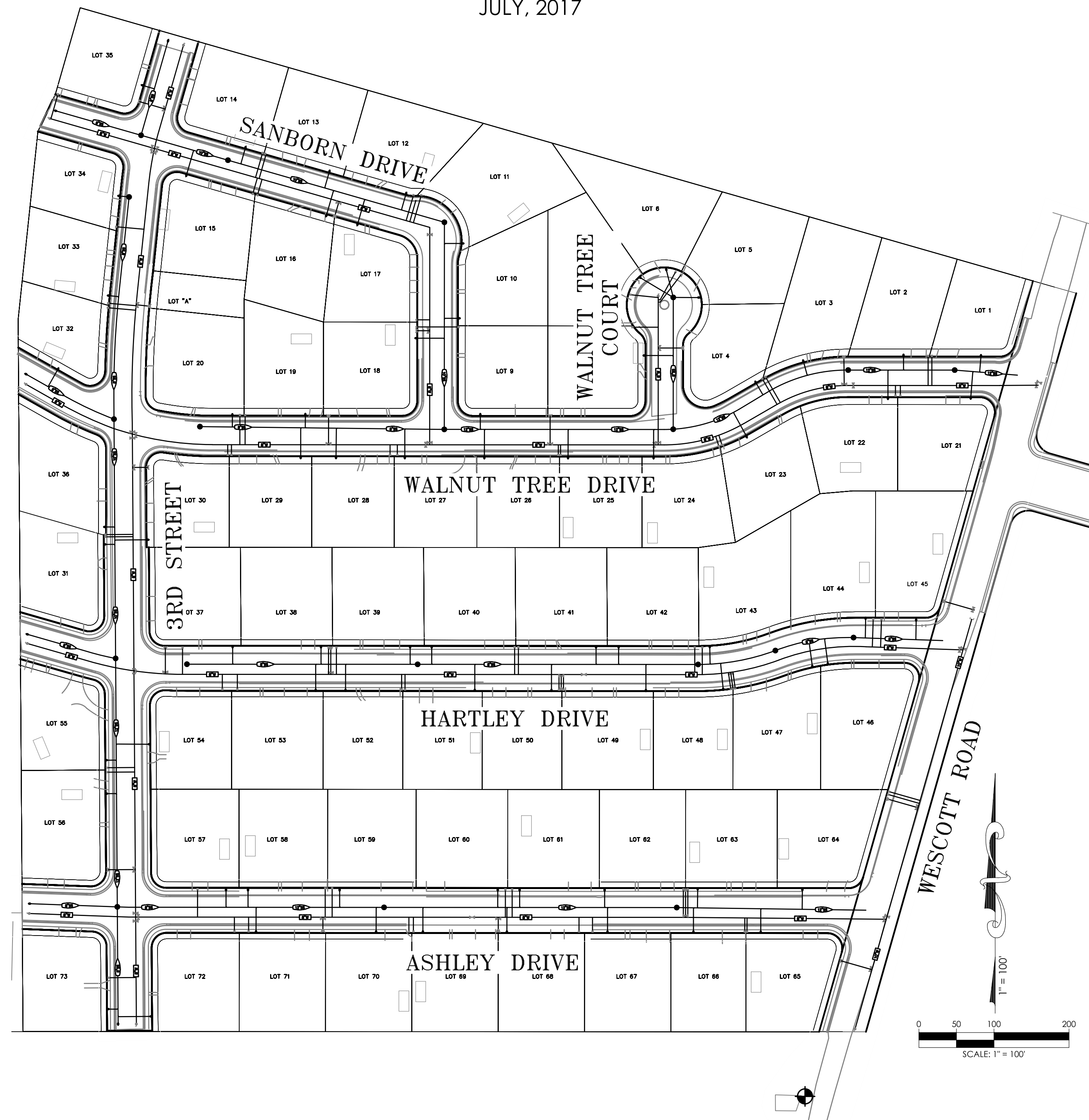
WALNUT RANCH, UNIT I, II AND III

WATERLINE IMPROVEMENT PLANS

FOR BIDDING

CITY OF COLUSA, COLUSA COUNTY, CALIFORNIA

JULY, 2017

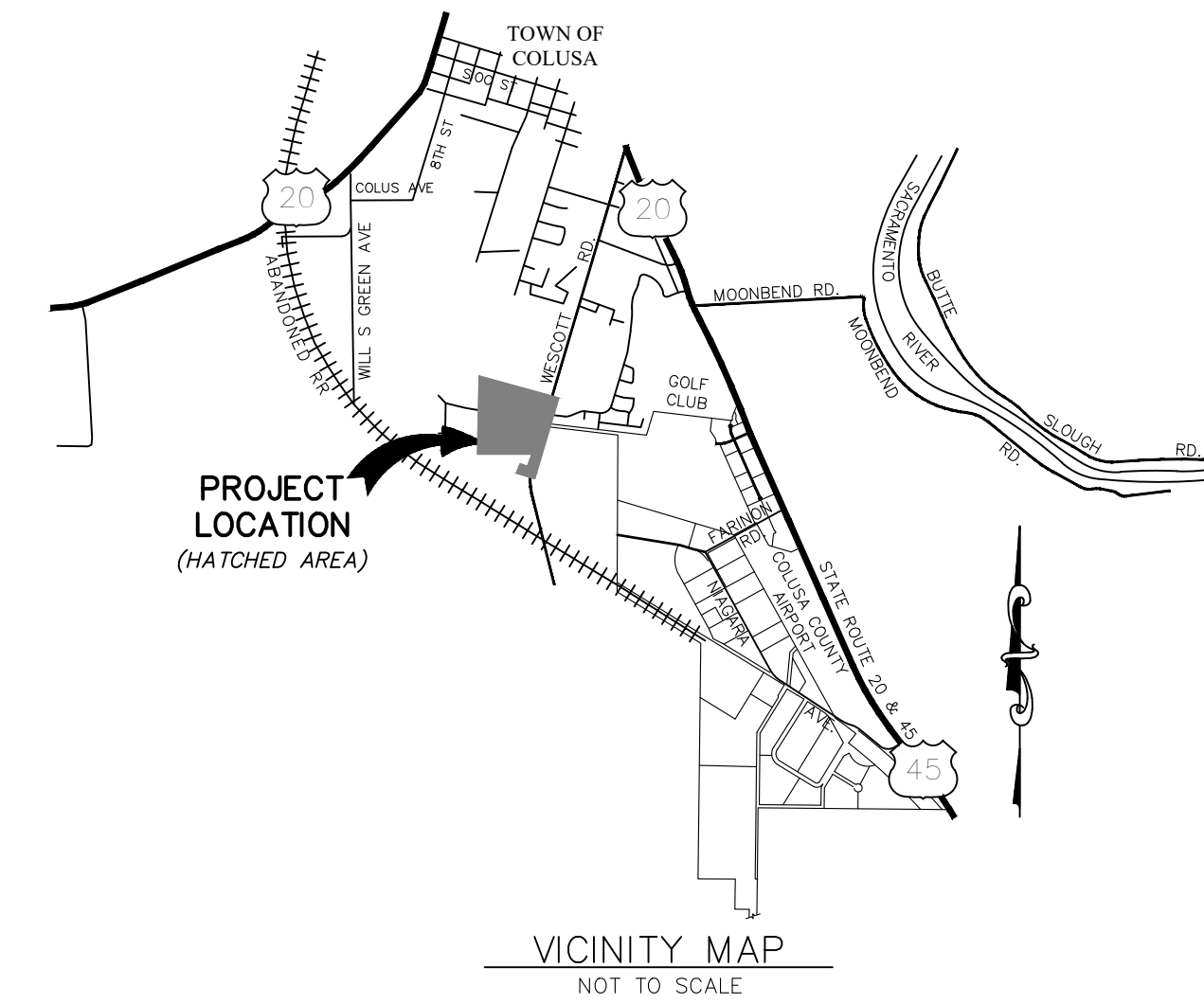


BASIS OF BEARINGS:

THE BASIS OF BEARINGS OF THESE IMPROVEMENT PLANS IS THE LINE BETWEEN TWO FOUND MONUMENTS LOCATED ON ASHLEY DRIVE, AS SHOWN ON THAT CERTAIN MAP ENTITLED "THE WALNUT RANCH, UNIT 2 & 3", AND SAID LINE HAVING A BEARING OF NORTH 89° 58' 13" WEST.

VERTICAL DATUM:

THE ELEVATION DATUM OF THIS PROJECT IS BASED ON N.G.S. BENCHMARK DL9151 "COLIND", ELEVATION= 48.7 FEET NAVD88. TEMPORARY BENCH MARK SET 4 FEET NORTH OF THE NORTH-EAST FENCE CORNER POST OF THE PROJECTS EXISTING LIFT STATION. TBM IS A 5/8" REBAR WITH PINK PLASTIC CAP STAMPED CEC INC CONTROL; ELEVATION= 51.63 FEET NAVD88.



SHEET INDEX:

- COVER SHEET
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- WESCOTT ROAD PLAN AND PROFILE
- WESCOTT RD & 3RD STREET PLAN AND PROFILE
- 3RD STREET PLAN AND PROFILE
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- SANBORN DRIVE PLAN AND PROFILE
- CITY OF COLUSA STANDARD DETAILS
- CITY OF COLUSA STANDARD DETAILS
- CITY OF COLUSA STANDARD DETAILS

CITY OF COLUSA PUBLIC WORKS
APPROVED BY:
Jesse Cain 3/8/2023
JESSE CAIN PUBLIC WORKS DATE

CITY OF COLUSA
APPROVED BY:
David L. Swartz 3/3/2023
DAVID L. SWARTZ, P.E. # C52840, P.L.S. # 8401 DATE
CITY ENGINEER
P.E. EXP. 12/31/18 - P.L.S. EXP. 06/30/18

PROJECT NUMBER 15-111	SHEET 1 OF 14	<p>DATE: 07-20-2017</p> <p>SCALE: 1"=100'</p> <p>DRAWN BY: NTL</p> <p>DESIGNED BY: AV</p> <p>CHECKED BY: DLS</p>
		<p>DESCRIPTION</p> <p>NO.</p> <p>DATE</p>
<p>WALNUT RANCH, UNIT 1, 2 & 3</p> <p>COVER</p> <p>WATERLINE IMPROVEMENT PLANS</p>		<p>Office (530) 751-0952</p> <p>Fax (530) 751-0953</p> <p>1110 Civic Center Blvd., Suite 404</p> <p>Yuba City, CA 95993</p> <p>CEC</p> <p>Engineering - Planning - Surveying - Community Development</p> <p>www.cecusa.net</p>

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CEC GENERAL NOTES

- 1.) THE CONSTRUCTION CONTRACTOR SHALL AGREE, THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CONSULTING ENGINEER AND THE CITY OF COLUSA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CONSULTING DESIGN PROFESSIONAL OR THE CITY OF COLUSA.
- 2.) ALL CONSTRUCTION MATERIALS, METHODS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF COLUSA PUBLIC WORKS IMPROVEMENT STANDARDS, ADOPTED LATEST EDITION OF CAL TRANS CONSTRUCTION SPECIFICATIONS (RANK SHALL BE IN ABOVE LISTED ORDER WHERE DISCREPANCIES EXIST). ALL WORK IS SUBJECT TO THE APPROVAL OF CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. CERTIFICATION FOR CONFORMANCE WITH CITY SPECIFICATIONS WILL BE REQUIRED FOR ALL MATERIALS USED ON THE PROJECT UNLESS SPECIFICALLY WAIVED BY THE CITY ENGINEER.
- 3.) THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER 72-HOURS PRIOR TO COMMENCING WORK AND 24-HOURS PRIOR TO RESUMPTION AFTER INTERRUPTION.
- 4.) THE CONTRACTOR SHALL OBTAIN ALL NECESSARY ENCROACHMENT PERMITS FOR THE PROJECT, AND BE IN RECEIPT OF SUCH PERMITS AND APPROVED PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 5.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODIES. FOR MORE INFORMATION, PLEASE CONTACT THE STATE INDUSTRIAL SAFETY DEPARTMENT (916-455-5818).
- 6.) THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO SEE THAT ALL SUBCONTRACTORS AND SUPPLIERS HAVE CURRENT COUNTY BUSINESS LICENSES. THE WORK WILL NOT BE ACCEPTED FOR COMPLETION UNTIL SUBMITTAL OF A COMPLETE LIST WITH LICENSE NUMBERS TO THE CITY ENGINEER.
- 7.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENTS WITHIN AND ADJACENT TO THE WORK AND SHALL ADEQUATELY BARRICADE PROJECT TO KEEP THE GENERAL PUBLIC FROM THE SITE. ANY DAMAGE TO CITY OR PRIVATE IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO CURRENT CITY OF COLUSA STANDARDS.
- 8.) THE CONTRACTOR IS TO EXPOSE THE ENDS OF WATER MAINS, SEWER AND DRAIN LINES AND EXISTING GRAVITY LINES FOR THE SURVEYOR TO VERIFY LOCATION AND DEPTH OF FACILITIES PRIOR TO PLACEMENT OF PIPE.
- 9.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE CONSULTING ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER OR CITY ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATIONS CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10.) THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT ON HIS BEHALF, ON THE JOB SITE DURING ALL WORKING HOURS.
- 11.) THE CITY OF COLUSA IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE CALL SYSTEM. THE CONTRACTORS SHALL NOTIFY THE U.S.A. CENTER 48-HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING 1-800-227-2600.
- 12.) THE CONTRACTOR SHALL MARK IN WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING U.S.A.
- 13.) CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT INSPECTOR A COPY OF THE COMPANY ANNUAL CALOSHA TRENCHING PERMIT AND A COPY OF THE COMPANIES LETTER INFORMING CALOSHA OF THE TIME OF TRENCHING PRIOR TO EXCAVATION OF TRENCHES 5' OR DEEPER.
- 14.) ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY'S NOISE ORDINANCE.
- 15.) IF ANY AMOUNT OF BONES, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 165 FEET OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED TO DEVELOP (IF NECESSARY) FURTHER MITIGATION MEASURES TO REDUCE ANY ARCHEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
- 16.) CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH SUBMITTALS FOR ALL MATERIALS TO BE USED. THE SUBMITTALS SHALL BE DELIVERED TO THE DEPARTMENT OF PUBLIC WORKS A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.
- 17.) CERTIFICATION FOR CONFORMANCE WITH THE CITY OF COLUSA SPECIFICATIONS WILL BE REQUIRED OF ALL MATERIAL USED ON THE PROJECT UNLESS SPECIFICALLY WAIVED BY THE ENGINEER.
- 18.) CONTRACTOR SHALL ADEQUATELY BARRICADE PROJECT TO KEEP THE GENERAL PUBLIC FROM THE SITE.
- 19.) ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF CONSTRUCTION.
- 20.) A SOILS ENGINEER SHALL BE ENGAGED BY THE OWNER TO CERTIFY THAT THE VARIOUS ITEMS OF COMPACTION COMPLY WITH THE SPECIFICATIONS AND THAT SPECIAL WORK REQUIRED HAS BEEN DONE SATISFACTORILY.
- 21.) THE CONTRACTOR SHALL USE A WATER TRUCK WHEN REQUIRED TO MAINTAIN ADEQUATE DUST CONTROL.
- 22.) INTERMEDIATE TRENCH BACK FILL SHALL BE IN MAXIMUM LIFTS OF 8" AND SHALL HAVE A MINIMUM RELATIVE COMPACTION OF 90% OR AS DIRECTED BY THE SOILS ENGINEER. COMPACTION SHALL BE BY MECHANICAL MEANS.
- 23.) EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE PLANS AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- 24.) PRIOR TO THE BEGINNING OF EARTHWORK THE CONTRACTOR SHALL CLEAR ALL ROOTS, ORGANIC MATTER, DEBRIS, PAVING, CURB, AND VEGETATION DESIGNATED TO BE SAVED, FROM THE AREA WITHIN WHICH EXCAVATION AND GRADING ARE TO BE CONDUCTED OR STORAGE OF EXCAVATED MATERIALS OR FILL IS TO BE MADE. VEGETATION CLEARED FROM THESE AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR, AND INCLUDED IN THE COST OF CLEARING AND GRUBBING.
- 25.) IN TRANSITION AREAS FROM ONE STREET WIDTH TO ANOTHER STREET WIDTH, THE HEAVIER STRUCTURAL SECTION SHALL BE USED.
- 26.) DIMENSIONS SHOWN ON PLANS ARE TO CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

CEC GENERAL NOTES CONTINUED

- 28.) SEWER AND WATER AND SERVICES TO HAVE A MINIMUM 10 FEET HORIZONTAL SEPARATION.
- 29.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES.
- 30.) CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND DEPTH. THE TYPES, LOCATIONS, SIZES AND DEPTH OF EXISTING UTILITIES WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATIONS WILL REVEAL ACTUAL INFORMATION. A REASONABLE EFFORT WAS MADE TO DELINEATE UTILITIES. HOWEVER, CALIFORNIA ENGINEERING COMPANY ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS, NOR ACCURACY, NOR FOR OTHER UTILITIES WHICH MAY BE ENCOUNTERED. THE CONTRACTOR IS HEREBY NOTIFIED THAT THEY ARE RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL UTILITIES AT THE CONSTRUCTION SITE. IN THE EVENT CONFLICTS EXIST OR SUBSTANTIAL DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY AND ALLOW 2 WORKING DAYS FOR CHANGE TO BE MADE, COORDINATED AND APPROVED.

GRADING NOTES

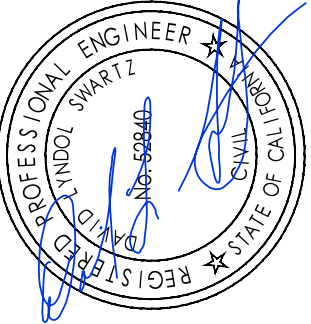
- 1.) A SOILS ENGINEER SHALL CERTIFY THAT THE VARIOUS ITEMS OF COMPACTION AND MATERIALS HAVE BEEN ACCOMPLISHED. GRADING SHALL CONFORM TO CHAPTER 70 UBC, LATEST EDITION, AND TO THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEERING REPORT, AND CITY REQUIREMENTS, WHICH EVER IS GREATER.
- 2.) ALL COMPACTION TESTING SHALL BE PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL AND CITY SPECIFICATIONS AND BE PAID FOR BY THE DEVELOPER (OR CONTRACTOR IN CASE OF RE-TESTING). THOSE TESTS WITHIN THE RIGHT-OF-WAY SHALL BE APPROVED BY THE CITY OF COLUSA AND ALL TESTING OUTSIDE THE RIGHT-OF-WAY CERTIFIED BY THE SOILS ENGINEER FOR THE PROJECT. THE RESULTS OF SOIL COMPACTION TESTING SHALL BE SUBMITTED TO THE CITY BI-MONTHLY.
- 3.) ALL UNSUITABLE AND SURPLUS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED.
- 4.) SUFFICIENT EQUIPMENT SHALL BE AVAILABLE TO PROVIDE DUST CONTROL AT ALL TIMES DURING CONSTRUCTION. A WATER TRUCK SHALL BE USED, WHEN REQUIRED, TO MAINTAIN ADEQUATE DUST CONTROL. AREAS SURROUNDING THE WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF THE CONTRACT. THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT WATER METER PRIOR TO COMMENCEMENT OF WORK.
- 5.) ROUTES TO THE PROJECT SITE FOR HEAVY EQUIPMENT AND MATERIAL SHALL BE APPROVED BY THE CITY ENGINEER.
- 6.) EROSION CONTROL HYDROSEEDING SHALL BE APPLIED TO ALL GRADED OR DISTURBED SOILS WITHIN THE WORK AREA AFTER COMPLETION OF IMPROVEMENTS OR IF PRACTICAL AFTER GRADING ALSO TO REDUCE DUST.
- 7.) WINTERIZATION NOTE *THE FOLLOWING ARE REQUIRED IF GRADING AND CLEARING IMPROVEMENTS ARE INCOMPLETE BY OCTOBER 15TH; EROSION PROTECTION ON SLOPES 10:1 OR STEEPER AND SWALES WITH SLOPES 2% OR GREATER. NO SEDIMENT SHALL LEAVE THE PROJECT AREA. GRADE GUTTER SAG POINTS TO DRAIN. PROVIDE FOR DRAINAGE OF IMPROVEMENTS. PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN PIPES PER SECTION S560-05 (CAL-TRANS SPECS). SEAL OFF ALL SANITARY SEWER CONNECTION TO EXISTING SYSTEMS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN WINTERIZATION FACILITIES AT ALL TIMES OR UNTIL IMPROVEMENTS ARE FINAL.
- 8.) ALL EROSION CONTROL SHALL BE PLACED AS SPECIFIED ON THESE PLANS OR AS SHOWN ON THE SWPPP.
- 9.) TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.
- 10.) THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN THE OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.
- 11.) ADJACENT STREET FRONTAGES SHALL BE SWEEP AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE.
- 13.) PRIOR TO INITIATING CLEARING AND GRUBBING ALL PROTECTIVE FENCING SHALL BE INSTALLED.

WATER NOTES

- 1.) ALL WATER FACILITIES INCLUDING BUT NOT LIMITED TO LINES, SERVICE BOXES, VALVES, AND ALL MISCELLANEOUS APPURTENANCES SHALL CONFORM TO THE CITY OF COLUSA IMPROVEMENT STANDARDS AND CURRENT CALIFORNIA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION, REQUIREMENTS, AND DRAWINGS NECESSARY TO BID AND COMPLETE THE WORK SHOWN ON THESE PLANS AND INSTALLED PER MANUFACTURERS SPECIFICATIONS. PIPE ALTERNATIVES SHALL BE: POLYVINYL CHLORIDE PIPE - AWWA - C900 CLASS 150 AND/OR DUCTILE - IRON PIPE - AWWA 151 CLASS 50.
- 2.) ALL RUNS OF SEWER FORCE MAIN AND WATER MAIN PIPE SHALL HAVE NO.10 GAUGE, SOLID INSULATED SOFT-DRAWN COPPER WIRE TAPED ALONG THE TOP OF PIPE. THE WIRE SHALL BE STUBBED UP INSIDE EACH VALVE BOX AND DEAD END BLOWOFF ASSEMBLY AND BE INSTALLED AS PER CITY STANDARDS. ALL SPLICES SOLDERED AND SHRINK-WRAPPED OR TAPED.
- 3.) AT UTILITY CROSSING MAINTAIN A MINIMUM 12" VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER FACILITIES. ALL SEWER/WATER CROSSINGS, INCLUDING SERVICES, SHALL CONFORM TO STATE HEALTH DEPARTMENT REQUIREMENTS WITH 10' MINIMUM HORIZONTAL CLEARANCE.
- 4.) THE CONTRACTOR SHALL NOT TAKE WATER FROM A HYDRANT WITHOUT FIRST OBTAINING APPROVAL BY THE CITY OF COLUSA.
- 5.) PIPE JOINTS WILL NOT BE ALLOWED WITHIN SIX FEET (6') OF VALVE, FITTING OR HYDRANT.
- 6.) UNDER NO CIRCUMSTANCES SHALL PIPE OR JOINT DEFLECTION EXCEED MANUFACTURER'S RECOMMENDATION. DEFLECTION OF PIPE WILL NOT BE ALLOWED WITHIN TEN FEET (10') OF ANY FITTING OR VALVE.
- 7.) STANDARD PIPE LENGTHS (MINIMUM EIGHTEEN (18) TO TWENTY (20) FEET), SHALL BE USED FOR ALL HORIZONTAL AND VERTICAL DEFLECTIONS.
- 8.) WATER SYSTEM CONTRACTOR SHALL COORDINATE WITH THE STREET LIGHTING CONTRACTOR TO AVOID CONFLICTS WITH WATER SERVICES AND STREET LIGHT FOUNDATIONS AND ELECTRICAL PULL-BOXES.

CONSTRUCTION STAKING

- 1.) THE SURVEYOR FOR THIS PROJECT SHALL PROVIDE ONE (1) SET OF CONSTRUCTION STAKES FOR LINE AND GRADE UNLESS OTHERWISE REQUESTED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 2.) IN THE EVENT OF A DISAGREEMENT OR DESTROYED STAKE OR MONUMENT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SURVEYOR PRIOR TO ANY FURTHER CONSTRUCTION. SURVEYOR: CALIFORNIA ENGINEERING COMPANY, INC.
- 3.) THE CONTRACTOR SHALL GIVE THE SURVEYOR 72-HOURS NOTICE PRIOR TO EACH PHASE OF CONSTRUCTION OR IN THE EVENT OF NEEDED RESTAKING. PRIOR TO REQUESTING ACCEPTANCE OF IMPROVEMENTS, THE SURVEYOR FOR THIS PROJECT SHALL SET SURVEY MONUMENTS AS SPECIFIED IN THE IMPROVEMENT STANDARDS.
- 4.) THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS.
- 5.) THE CONTRACTOR SHALL HAVE THE SITE STAKED PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS TO ENSURE PROPER ALIGNMENTS AND ELEVATIONS. CEC WILL ONLY ENSURE ACCURACY ON ALIGNMENTS AND ELEVATIONS IF IT IS HIRED TO PERFORM CONSTRUCTION STAKING. CEC SHALL NOT BE HELD RESPONSIBLE FOR ALIGNMENT AND ELEVATION ACCURACY IF ANOTHER FIRM PERFORMS THE CONSTRUCTION STAKING.

PROJECT NUMBER	DESCRIPTION
15-111	NO.
	DATE: 07-20-2017
SHEET 2 OF 14	SCALE: 1"=40'
	DRAWN BY: NTL
	DESIGNED BY: AV
	CHECKED BY: DLS
	
CEC Engineering - Planning - Surveying - Community Development www.cecusa.net	
WALNUT RANCH, UNIT 1, 2 & 3 GENERAL NOTES WATERLINE IMPROVEMENT PLANS	
Office (630) 751-0952 Fax (630) 751-0953 1110 Civic Center Blvd., Suite 404 Tuba City, CA 95993	

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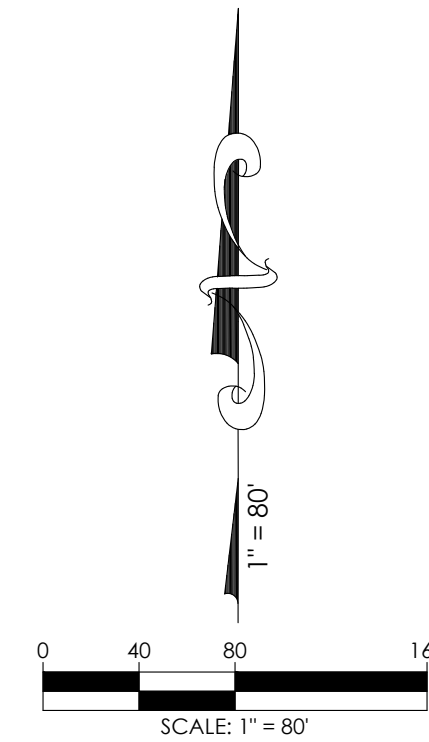
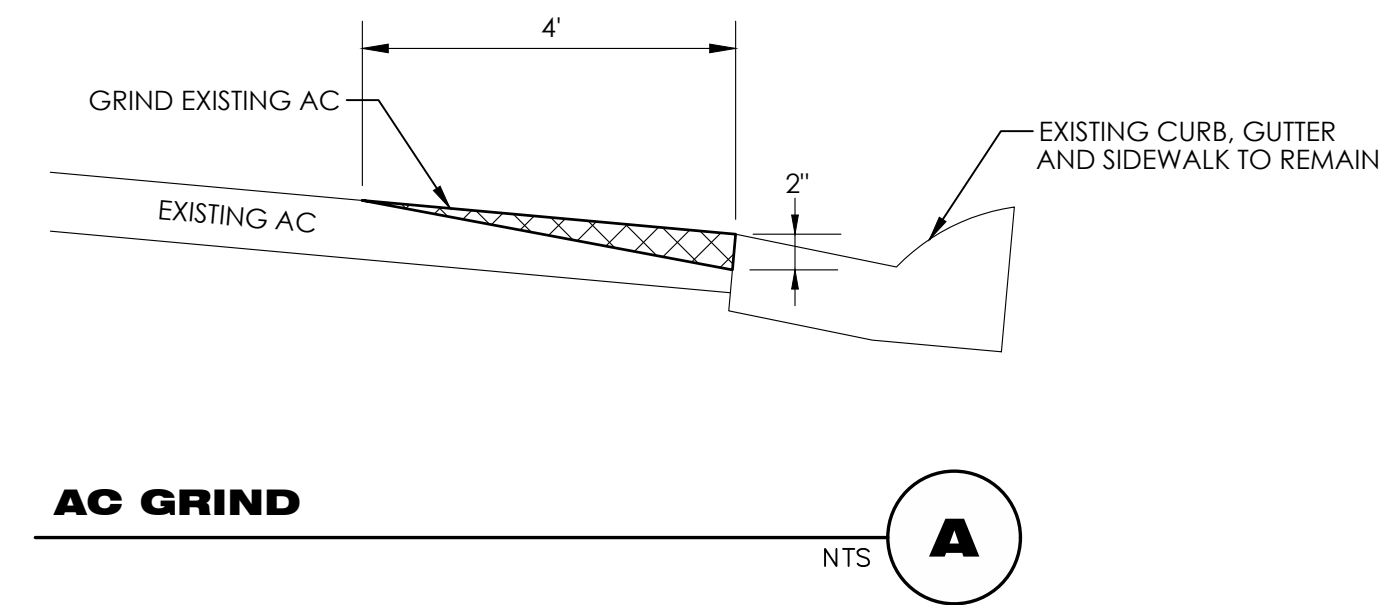


CONSTRUCTION NOTES:

- ① PLACE 12" THERMOPLASTIC WHITE LINE WITH STOP LEGEND PER 2015 CALTRANS STANDARD PLAN A24D & A24E.
- ② PLACE YELLOW THERMOPLASTIC STRIPING AND MARKERS PER DETAIL 22 OF THE 2015 CALTRANS STANDARD PLAN A20A.
- ③ PLACE YELLOW THERMOPLASTIC STRIPING AND MARKERS PER DETAIL 16 OF THE 2015 CALTRANS STANDARD PLAN A20A.
- ④ PLACE WHITE THERMOPLASTIC STRIPING PER DETAIL 27C OF THE 2015 CALTRANS STANDARD PLAN A20B.
- ⑤ PLACE WHITE THERMOPLASTIC STRIPING PER DETAIL 27B OF THE 2015 CALTRANS STANDARD PLAN A20B.
- ⑥ PLACE 2.5" TYPE B AC OVERLAY WITH OIL AND FABRIC. RAISE EXISTING UTILITIES AS NECESSARY.
- ⑦ GRIND EXISTING AC PER DETAIL THIS SHEET.

NOTES:

- ① CONTRACTOR TO REMOVE EXISTING STREET STRIPING WITHIN PAVING LIMITS PRIOR TO PAVING.
- ② CONTRACTOR TO MATCH NEW STREET STRIPING WITH EXISTING AT BOTH ENDS OF WESCOTT ROAD. PRELIMINARY STRIPING LAYOUT SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO STRIPING.



PROJECT NUMBER 15-111	WALNUT RANCH, UNIT 1, 2 & 3	PAVEMENT AND STRIPING PLAN WATERLINE IMPROVEMENT PLANS		Office (630) 751-0952 Fax (630) 751-0953 1110 Civic Center Blvd., Suite 404 Tuba City, CA 95973	
				DATE: 07-20-2017 SCALE: 1"=80' DRAWN BY: NTL DESIGNED BY: AV CHECKED BY: DLS	
SHEET 3 OF 14					

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CONSTRUCTION NOTES:

- PLACE 10" PVC C-900 WATER MAIN PER CITY OF COLUSA STANDARD DETAIL 8-17, SEE SHEET 14.
- PLACE FIRE HYDRANT ASSEMBLY PER CITY OF COLUSA STANDARD DETAIL 8-2 & 8-4, SEE SHEET 12. ANY UTILITY CROSSING SHALL BE PER CITY OF COLUSA STANDARD DETAIL 8-10, SEE SHEET 13. REMOVE AND REPLACE 5 LF CURB, GUTTER AND SIDEWALK PER CITY OF COLUSA 4-2, SEE SHEET 12.
- PLACE 2" BLOW OFF PER CITY OF COLUSA STANDARD DETAIL 8-12, SEE SHEET 13.
- CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING 10" WATER MAIN AND CONNECT WITH NEW 10" PVC C-900 PIPE.

CONSTRUCTION NOTES:

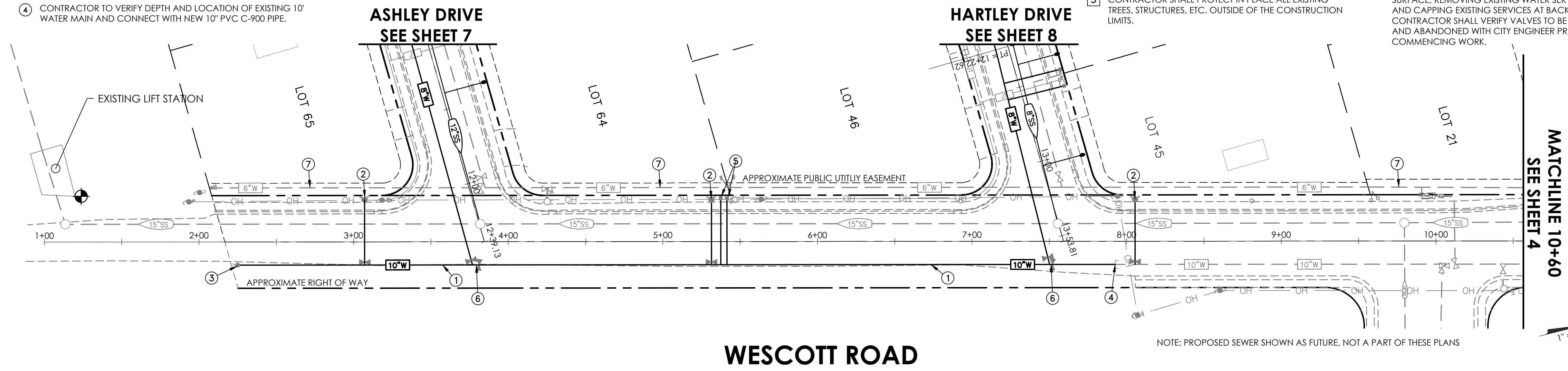
- PLACE 1" WATER SERVICE AND METER PER CITY OF COLUSA STANDARD DETAIL 8-1 & 8-6, SEE SHEET 12 & 13. CONTRACTOR TO TIE WATER SERVICE TO EXISTING RESIDENCE LINE.
- PLACE 10 X 8 X 10 TEE PER CITY OF COLUSA STANDARDS. THRUST BLOCKS AND RESTRAINTS SHALL BE PER CITY OF COLUSA STANDARD DETAIL 8-3, SEE SHEET 12.
- ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

NOTES:

- EXISTING VAULTS, VALVES, STRUCTURES, ETC. ARE APPROXIMATE AND WERE ENCOUNTERED AT THE TIME OF THE SURVEY. ANY TANKS, VAULTS, VALVES, STRUCTURES, ETC. FOUND DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE PLANS SHALL BE DISCUSSED WITH THE CITY IN THE EVENT THEY ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING TREES, STRUCTURES, ETC. OUTSIDE OF THE CONSTRUCTION LIMITS.

NOTES:

- ALL SAWCUT LINES SHALL BE NEAT STRAIGHT LINES.
- CONTRACTOR SHALL KEEP THE EXISTING WATER SYSTEM CHARGED AT ALL TIMES DURING CONSTRUCTION. ONCE THE NEW WATER SYSTEM IS CONSTRUCTED AND CHARGED, CONTRACTOR SHALL ABANDON THE EXISTING SYSTEM IN PLACE PER CITY OF COLUSA STANDARDS. SYSTEM ABANDONMENT INCLUDES DRAINING ALL WATER, TURNING OFF ALL WATER VALVES AND VALVE RISERS SHALL BE FILLED IN WITH CONCRETE, REMOVING EXISTING FIRE HYDRANTS AND CAPPING 18" BELOW GROUND SURFACE. REMOVING EXISTING WATER SERVICE VALVES AND CAPPING EXISTING SERVICES AT BACK OF WALK. CONTRACTOR SHALL VERIFY VALVES TO BE TURNED OFF AND ABANDONED WITH CITY ENGINEER PRIOR COMMENCING WORK.



NO.	DATE	DESCRIPTION

DATE: 07-20-2017
 SCALE: 1"=40'
 DRAWN BY: NTL
 DESIGNED BY: AV
 CHECKED BY: DLS

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 1110 Civic Center Blvd., Suite 404
 Yuba City, CA 95993

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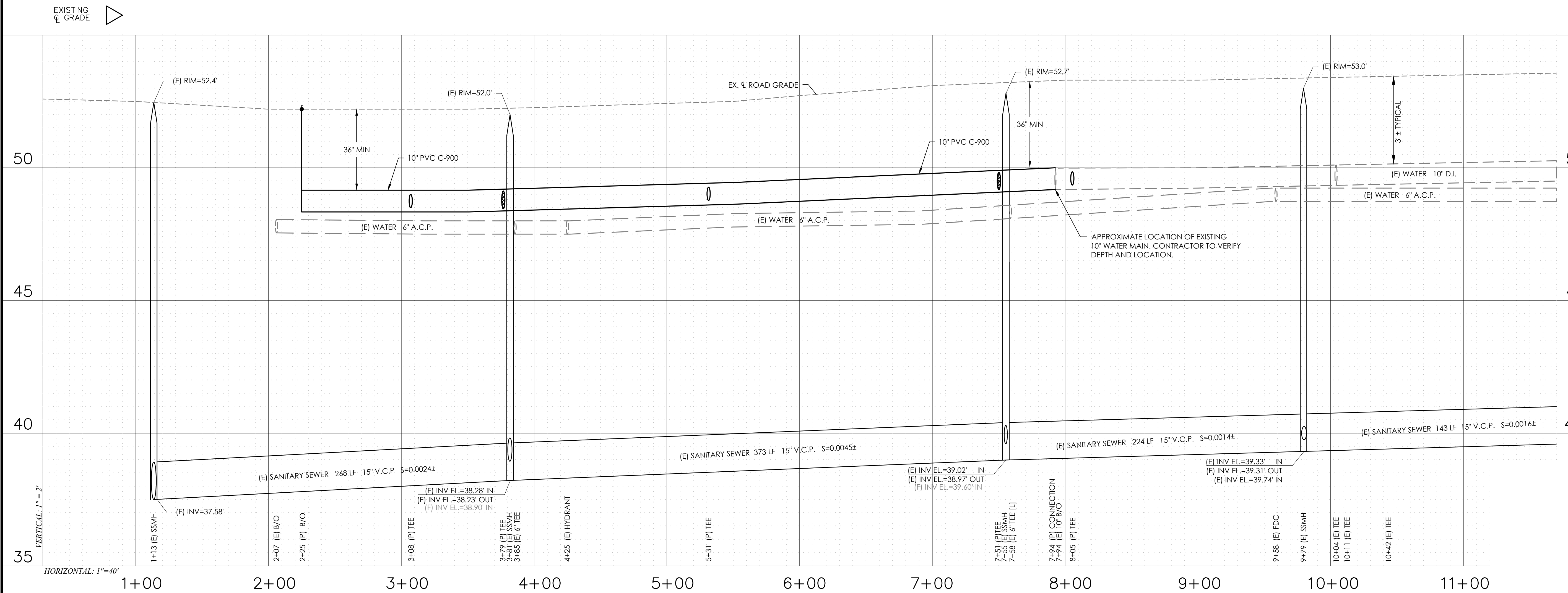
WALNUT RANCH, UNIT 1, 2 & 3

PLAN & PROFILE

WESCOTT ROAD 1+00 TO 10+60

PROJECT NUMBER
15-111

SHEET **4** OF **14**



Y:\CEC Jobs\Projects\15-111_SRF_Walnut Ranch\Eng\Mer\Drawg\15-111 Master Drawing Consolidated EM_EDIT.dwg, Feb 27, 2013 10:42 am, emose

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CONSTRUCTION NOTES:

- PLACE 8" PVC C-900 WATER MAIN PER CITY OF COLUSA STANDARD DETAIL 8-17, SEE SHEET 14.
- PLACE FIRE HYDRANT ASSEMBLY PER CITY OF COLUSA STANDARD DETAIL 8-2 & 8-4, SEE SHEET 12. ANY UTILITY CROSSING SHALL BE PER CITY OF COLUSA STANDARD DETAIL 8-10, SEE SHEET 13. REMOVE AND REPLACE 5 LF CURB, GUTTER AND SIDEWALK PER CITY OF COLUSA 4-2, SEE SHEET 12.
- PLACE 2" BLOW OFF PER CITY OF COLUSA STANDARD DETAIL 8-12, SEE SHEET 13.
- ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

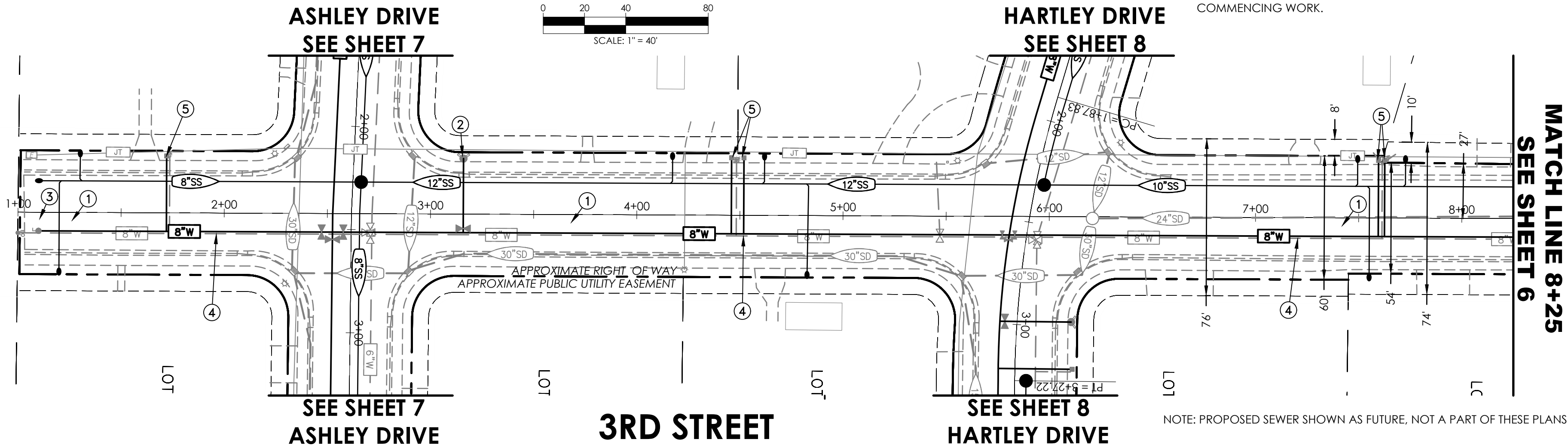
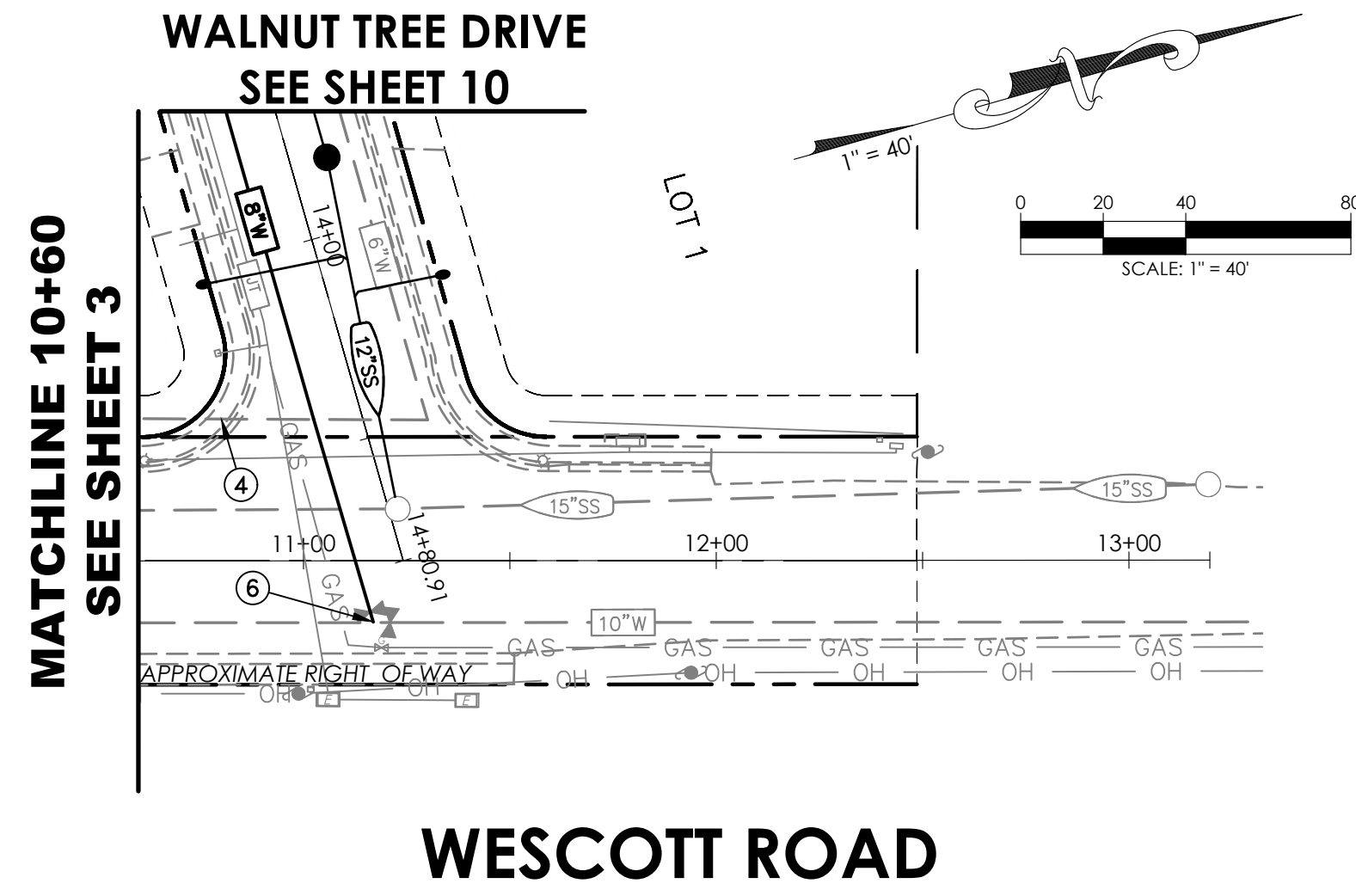
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- CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING 10" WATER MAIN AND CONNECT WITH NEW 10 X 8 X 10 TEE PER CITY OF COLUSA STANDARDS. THRUST BLOCKS AND RESTRAINTS SHALL BE PER CITY OF COLUSA STANDARD DETAIL 8-3, SEE SHEET 12.

NOTES:

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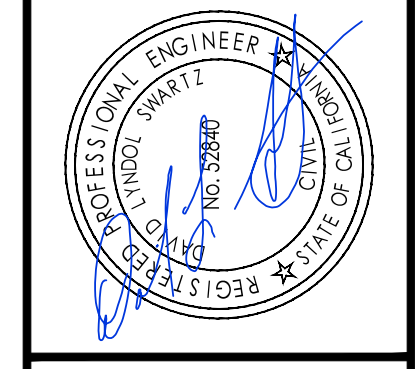
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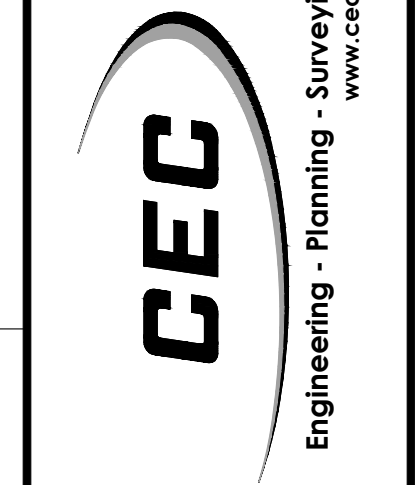


NOTE: PROPOSED SEWER SHOWN AS FUTURE, NOT A PART OF THESE PLANS

NO.	DATE	DESCRIPTION
1	07-20-2017	1"=40'
2		NIL
3		AV
4		DLS



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 Yuba City, CA 95993

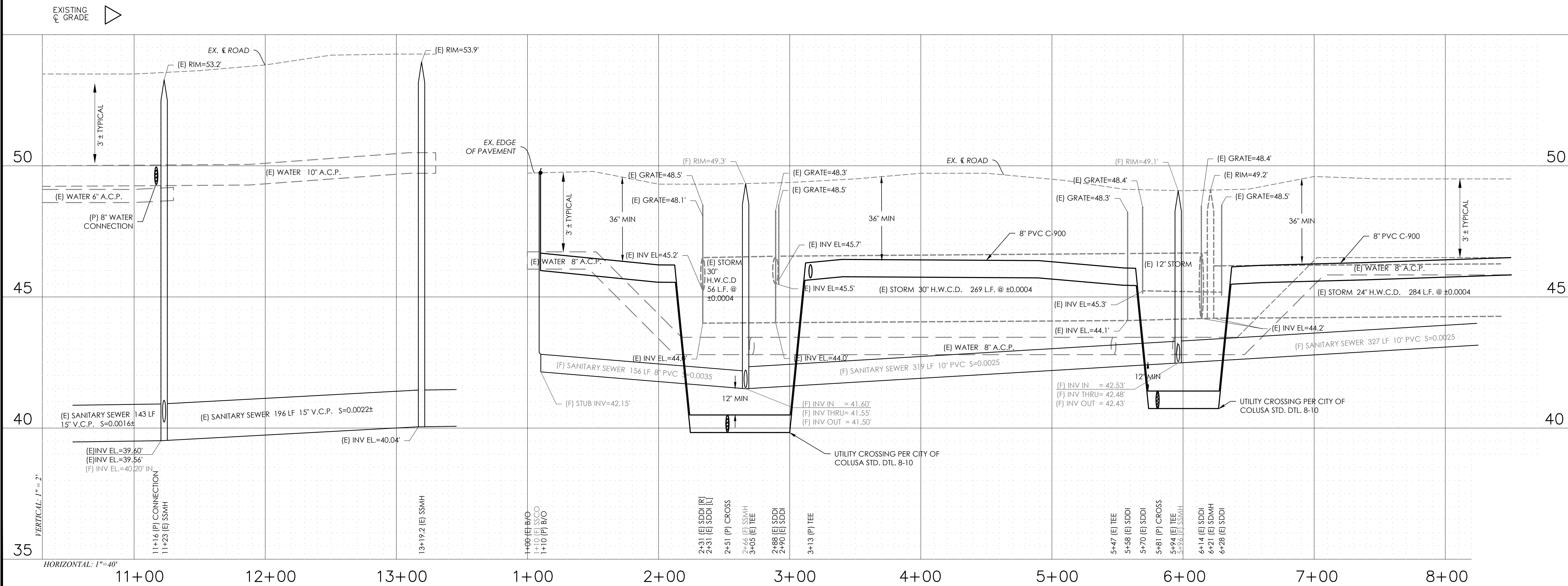


PLAN AND PROFILE

PROJECT NUMBER
15-111

WALNUT RANCH, UNIT 1, 2 & 3

SHEET **5** OF **14**



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CONSTRUCTION NOTES:

- 1 PLACE 8" PVC C-900 WATER MAIN PER CITY OF COLUSA STANDARD DETAIL 8-17, SEE SHEET 14.
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- 3 PLACE 2" BLOW OFF PER CITY OF COLUSA STANDARD DETAIL 8-12, SEE SHEET 13.
- 4 ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

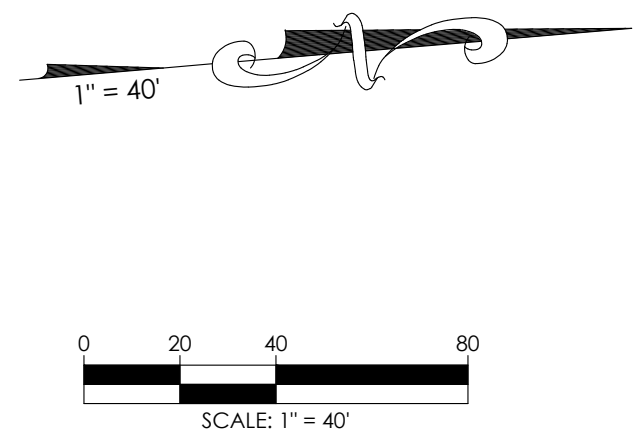
- 5 PLACE 1" WATER SERVICE AND METER PER CITY OF COLUSA STANDARD DETAIL 8-1 & 8-6, SEE SHEET 12. CONTRACTOR TO TIE WATER SERVICE TO EXISTING RESIDENCE LINE.

NOTES:

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MATCHLINE 8+25
SEE SHEET 5

WALNUT TREE DRIVE
SEE SHEET 9

SANBORN DRIVE
SEE SHEET 11

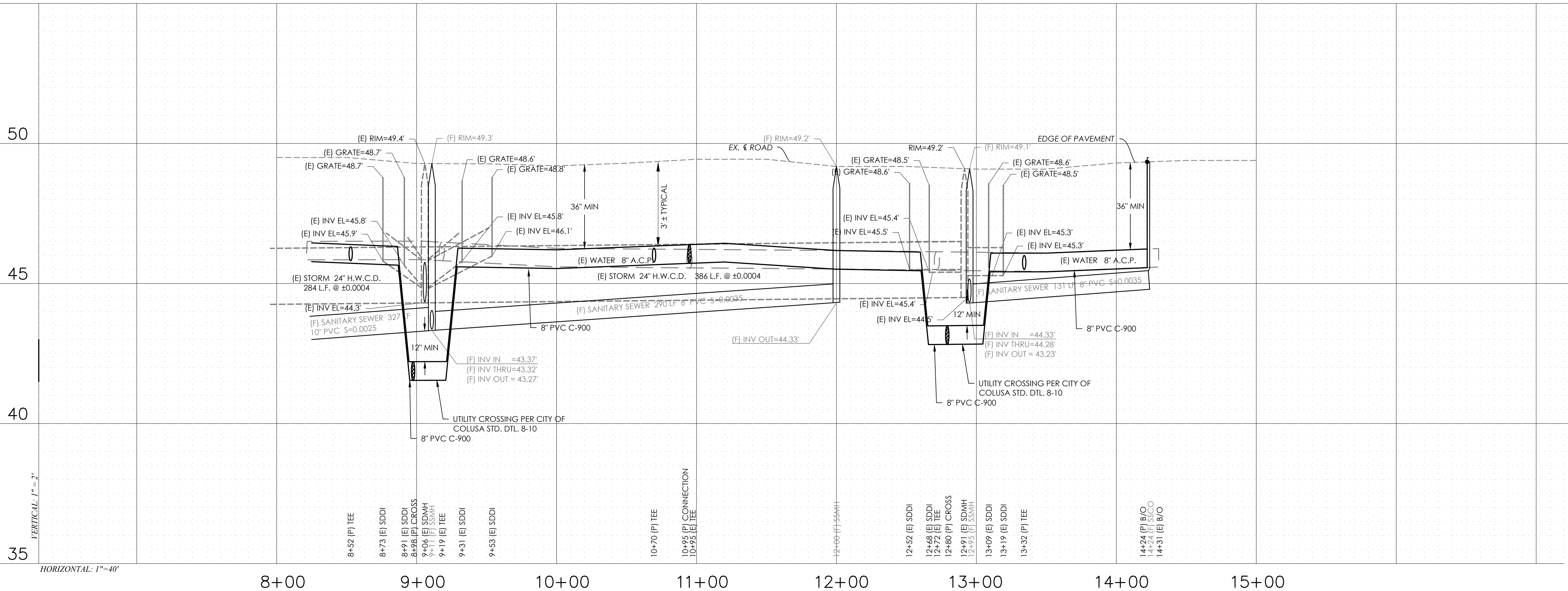
SEE SHEET 9
WALNUT TREE DRIVE

3RD STREET

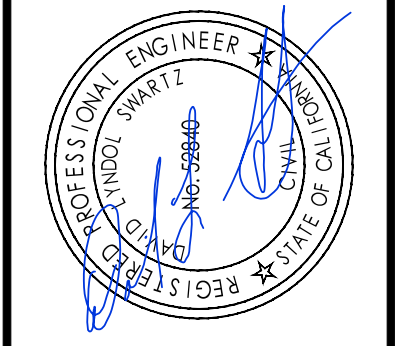
SEE SHEET 11
SANBORN DRIVE

NOTE: PROPOSED SEWER SHOWN AS FUTURE, NOT A PART OF THESE PLANS

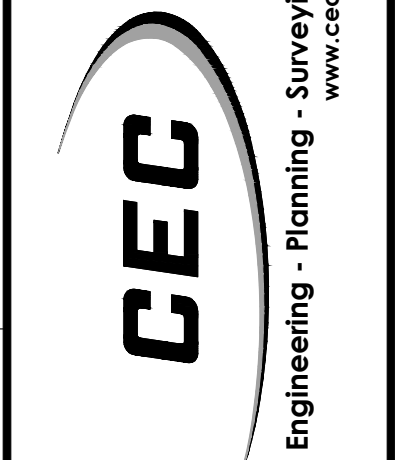
EXISTING
C. GRADE



NO.	DATE	DESCRIPTION



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Yuba City, CA 95993



WALNUT RANCH, UNIT 1, 2 & 3
PLAN & PROFILE
3RD STREET 8+25 TO 14+35

PROJECT NUMBER
15-111
SHEET **6** OF **14**

CONSTRUCTION NOTES:

- PLACE 8" PVC C-900 WATER MAIN PER CITY OF COLUSA STANDARD DETAIL 8-17, SEE SHEET 14.
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- PLACE 2" BLOW OFF PER CITY OF COLUSA STANDARD DETAIL 8-12, SEE SHEET 13.
- ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

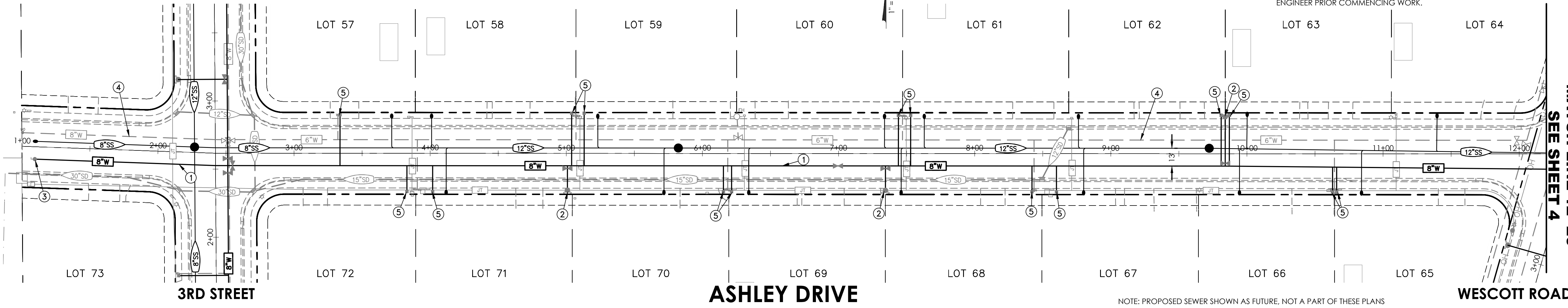
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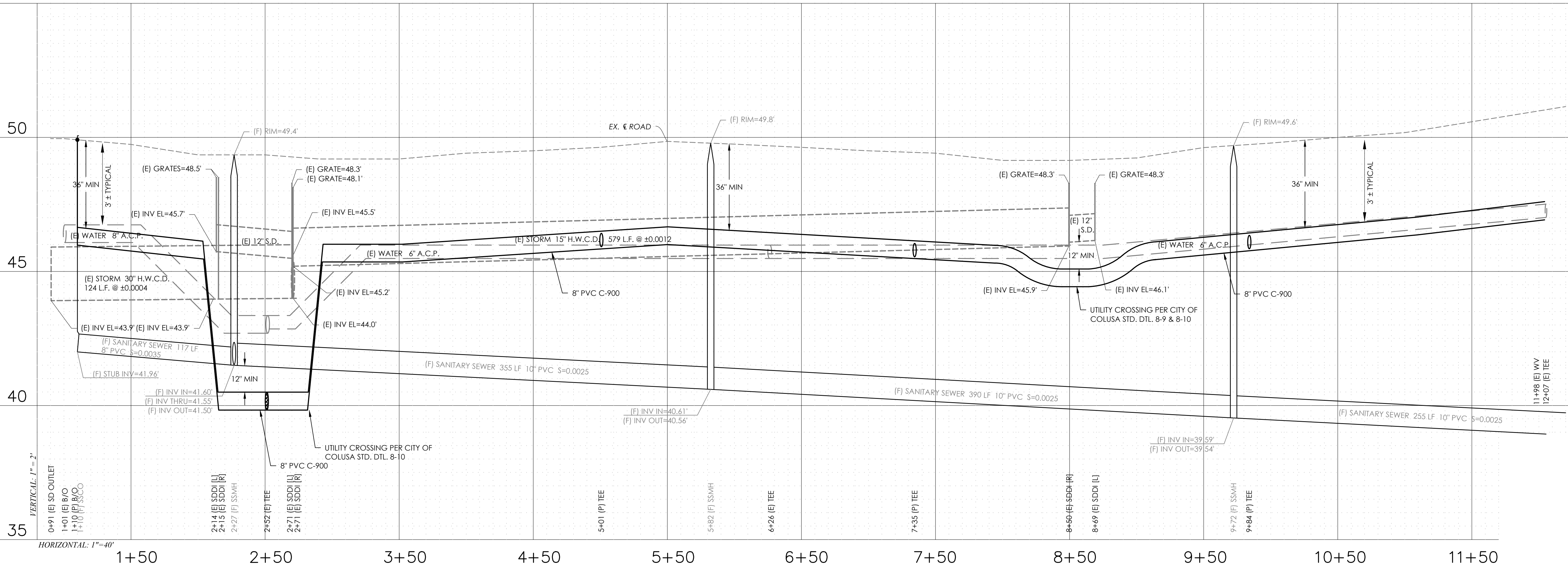
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MATCH LINE 12+20
SEE SHEET 4

NOTE: PROPOSED SEWER SHOWN AS FUTURE, NOT A PART OF THESE PLANS

EXISTING
GRADE



NO.	DATE	DESCRIPTION
1	07-20-2017	1"=40'
2		NIL
3		AV
4		DLS

DATE: 07-20-2017
SCALE: 1"=40'
DRAWN BY: NTL
DESIGNED BY: AV
CHECKED BY: DLS

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Yuba City, CA 95993



PLAN & PROFILE

WALNUT RANCH, UNIT 1, 2 & 3
ASHLEY DRIVE 1+00 TO 12+20

PROJECT NUMBER
15-111

SHEET
7 OF 14

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CONSTRUCTION NOTES:

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- 4 ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

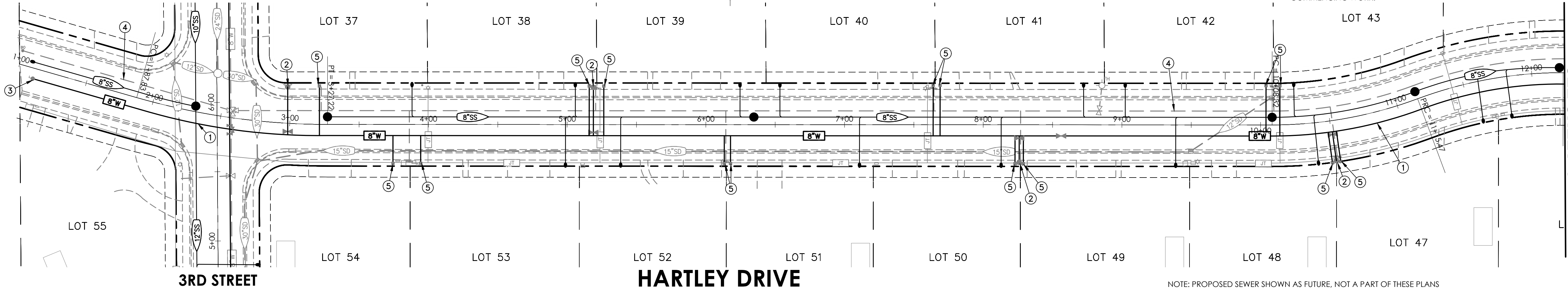
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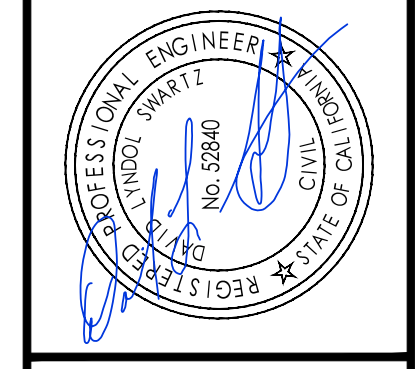
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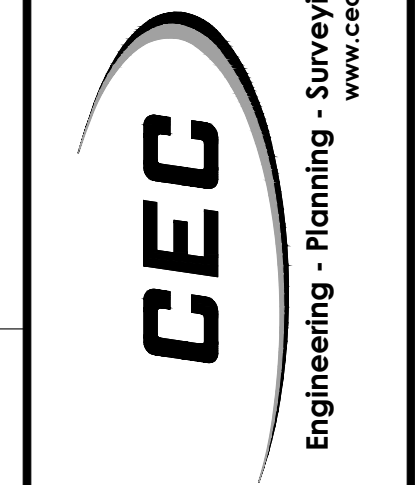


MATCH LINE 12+25
SEE SHEET 4

NO.	DATE	DESCRIPTION
1	07-20-2017	
2		
3		
4		
5		



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Fax (530) 751-0953
1110 Civic Center Blvd., Suite 404
Yuba City, CA 95993

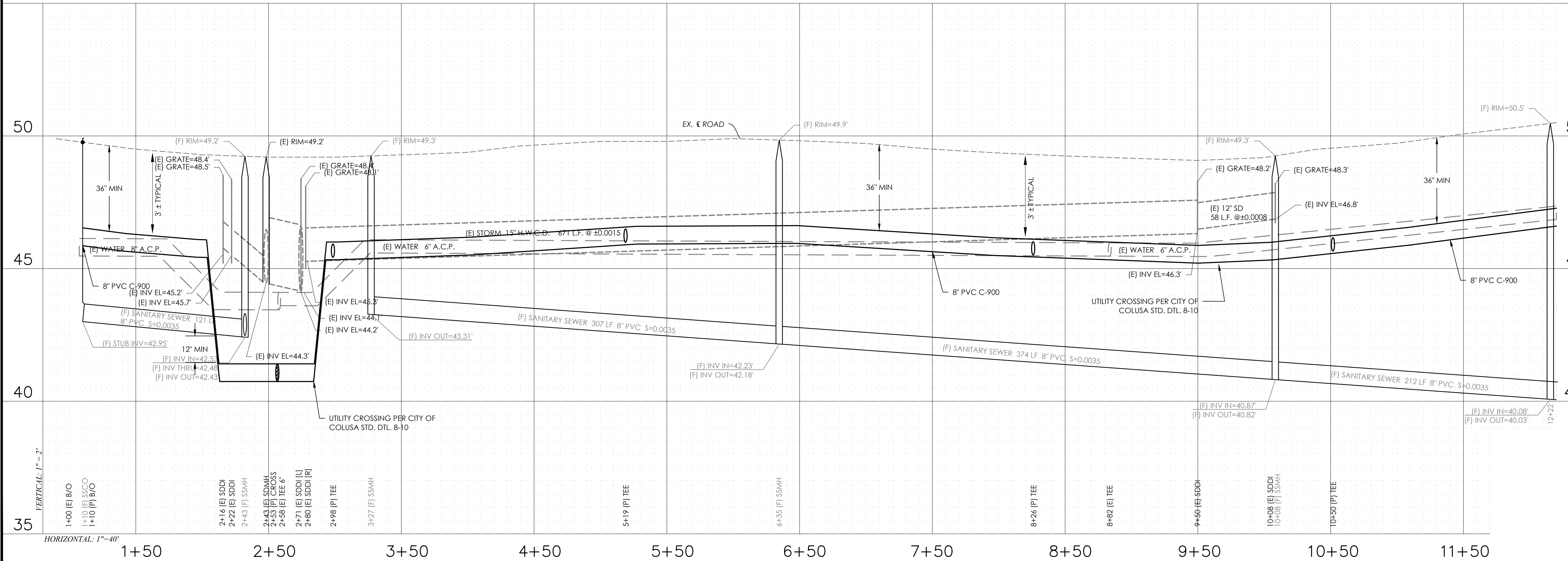


PLAN & PROFILE
HARTLEY DRIVE 1+00 TO 12+25

PROJECT NUMBER
15-111

SHEET **8** OF **14**

EXISTING GRADE



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CONSTRUCTION NOTES:

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- ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

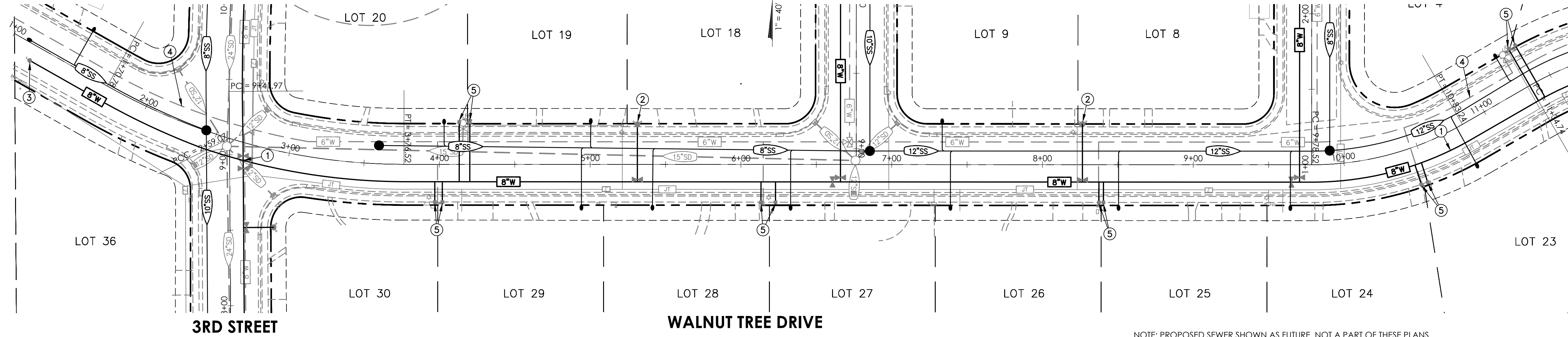
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NOTE: PROPOSED SEWER SHOWN AS FUTURE, NOT A PART OF THESE PLANS

MATCH LINE 11+50
SEE SHEET 10

NO.	DATE	DESCRIPTION
1	07-20-2017	
2	07-20-2017	
3	07-20-2017	
4	07-20-2017	
5	07-20-2017	

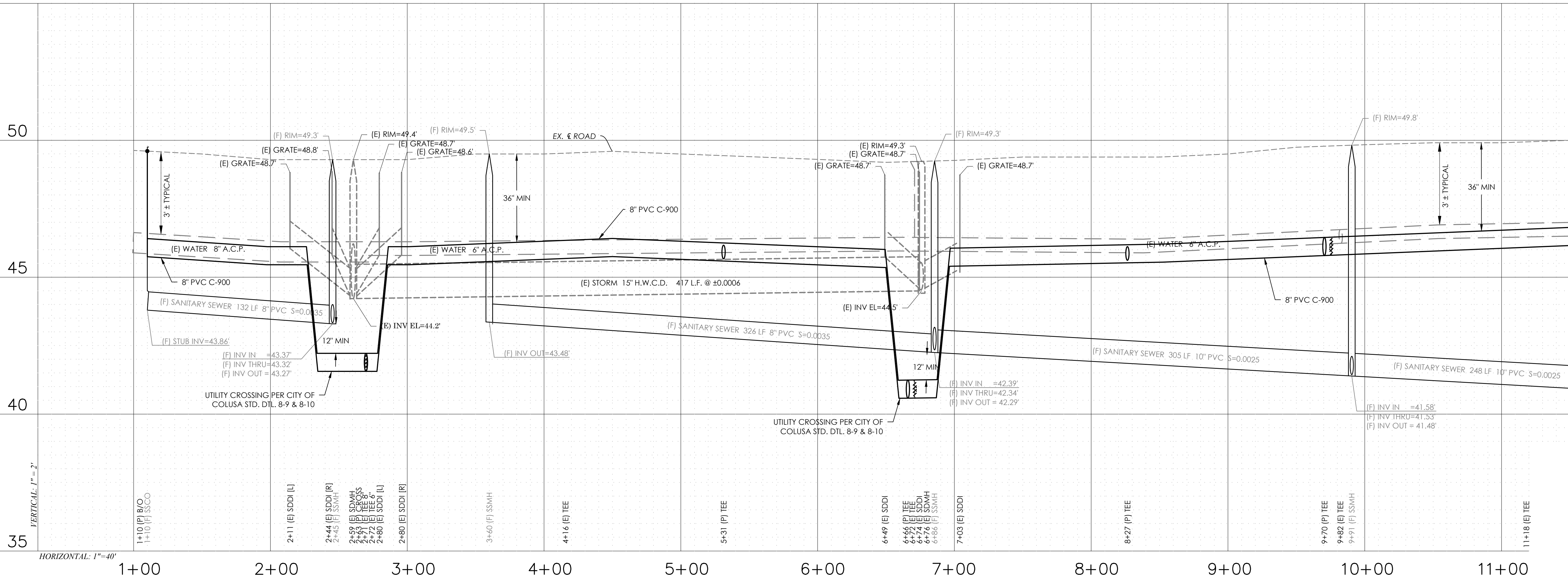
SCALE: 1"=40'
DRAWN BY: NTL
DESIGNED BY: AV
CHECKED BY: DLS

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Yuba City, CA 95993

PROJECT NUMBER 15-111	WALNUT RANCH, UNIT 1, 2 & 3
SHEET 9 OF 14	PLAN & PROFILE WALNUT TREE DRIVE 1+00 TO 12+25

EXISTING
C. GRADE



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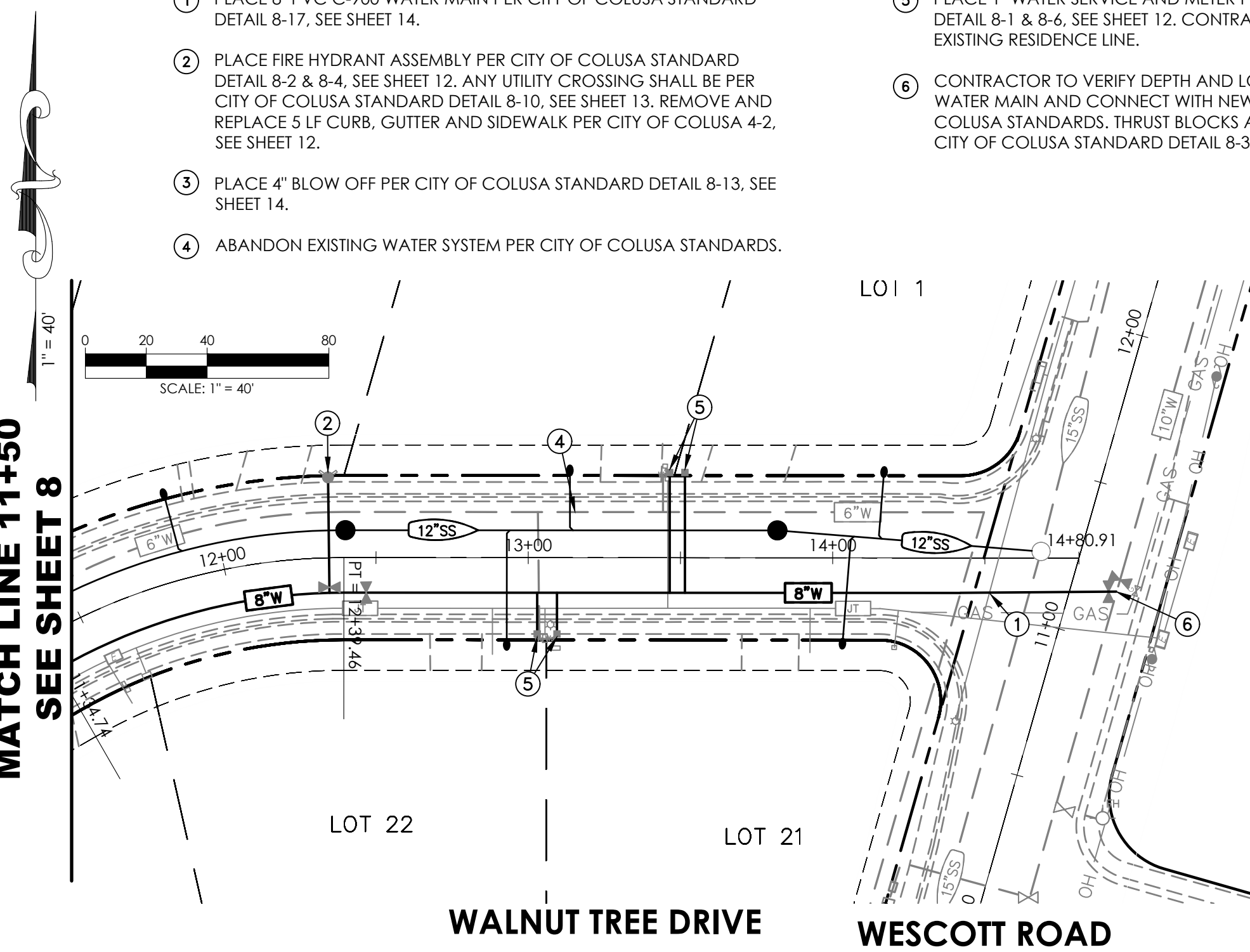
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- 3 PLACE 4" BLOW OFF PER CITY OF COLUSA STANDARD DETAIL 8-13, SEE SHEET 14.
- 4 ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

- 5 PLACE 1" WATER SERVICE AND METER PER CITY OF COLUSA STANDARD DETAIL 8-1 & 8-6, SEE SHEET 12. CONTRACTOR TO TIE WATER SERVICE TO EXISTING RESIDENCE LINE.
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MATCH LINE 11+50
SEE SHEET 8



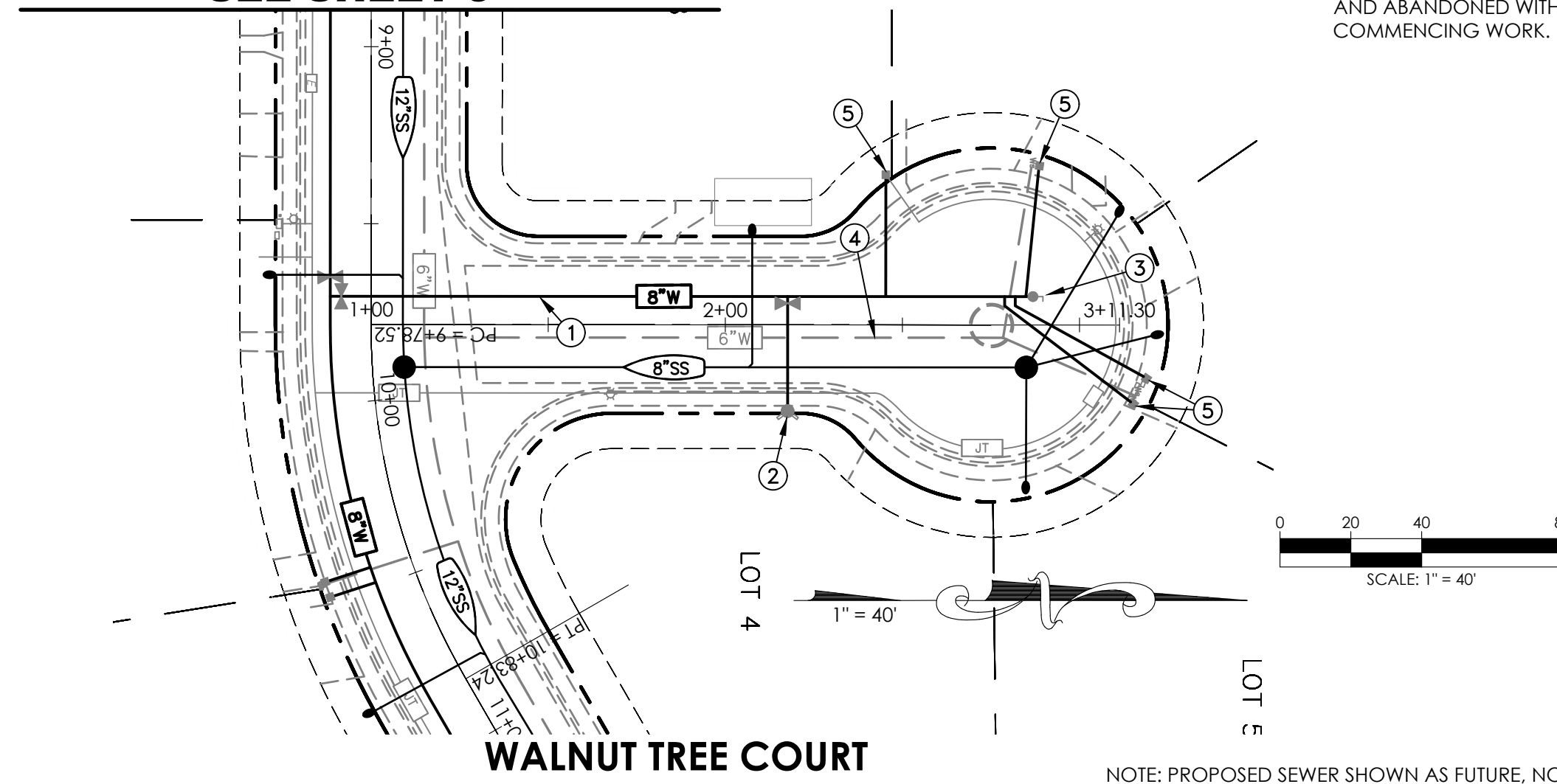
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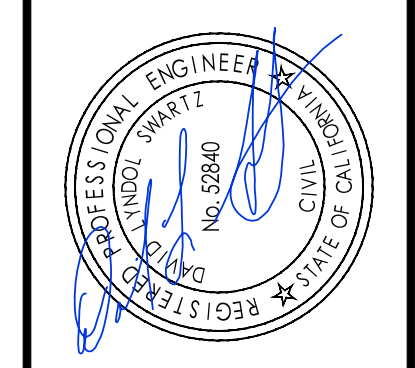
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**WALNUT TREE DRIVE
SEE SHEET 9**



NOTE: PROPOSED SEWER SHOWN AS FUTURE, NOT A PART OF THESE PLANS

NO.	DATE	DESCRIPTION



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Yuba City, CA 95993



PLAN & PROFILE

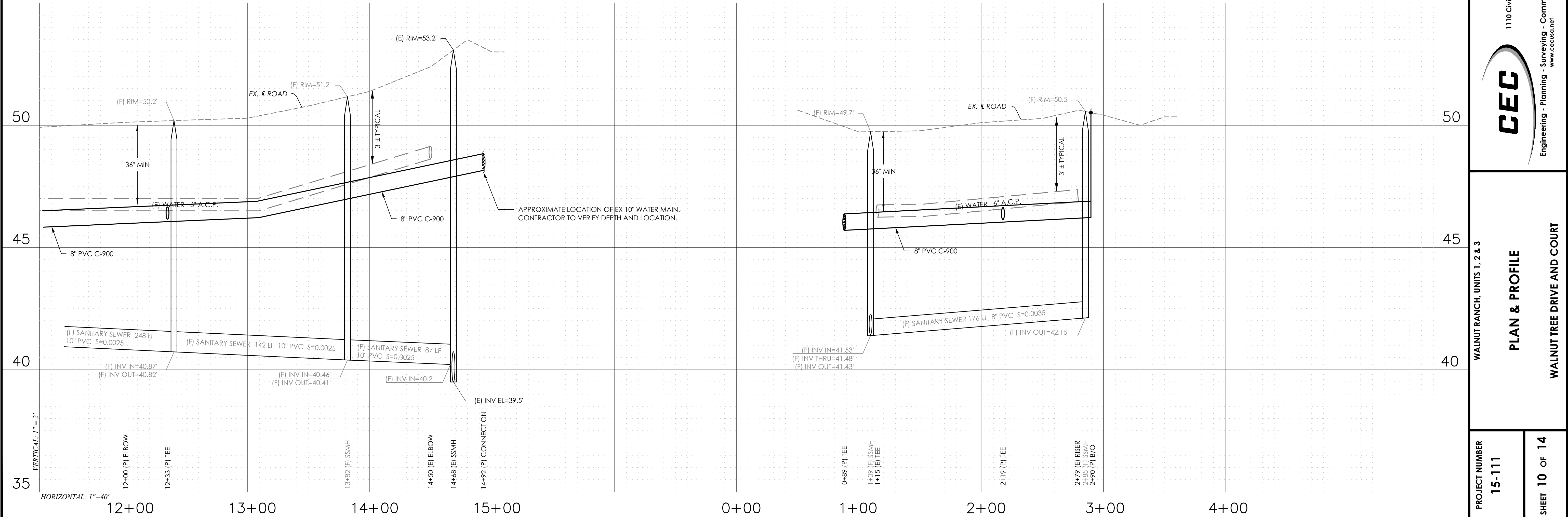
PROJECT NUMBER
15-111

WALNUT RANCH, UNITS 1, 2 & 3

WALNUT TREE DRIVE AND COURT

SHEET **10** OF **14**

EXISTING
C. GRADE



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CONSTRUCTION NOTES:

- PLACE 8" PVC C-900 WATER MAIN PER CITY OF COLUSA STANDARD DETAIL 8-17, SEE SHEET 14.
- PLACE FIRE HYDRANT ASSEMBLY PER CITY OF COLUSA STANDARD DETAIL 8-2 & 8-4, SEE SHEET 12. ANY UTILITY CROSSING SHALL BE PER CITY OF COLUSA STANDARD DETAIL 8-10, SEE SHEET 13. REMOVE AND REPLACE 5 LF CURB, GUTTER AND SIDEWALK PER CITY OF COLUSA 4-2, SEE SHEET 12.
- PLACE 2" BLOW OFF PER CITY OF COLUSA STANDARD DETAIL 8-12, SEE SHEET 13.
- ABANDON EXISTING WATER SYSTEM PER CITY OF COLUSA STANDARDS.

CONSTRUCTION NOTES:

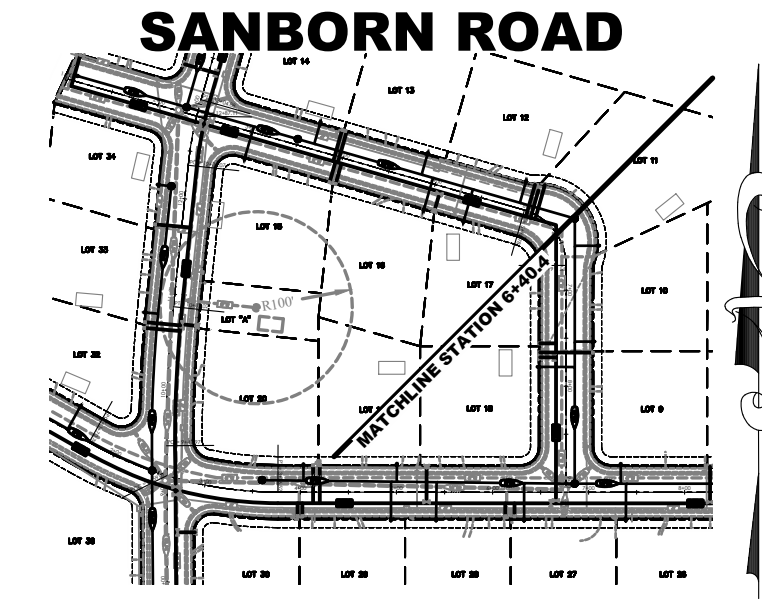
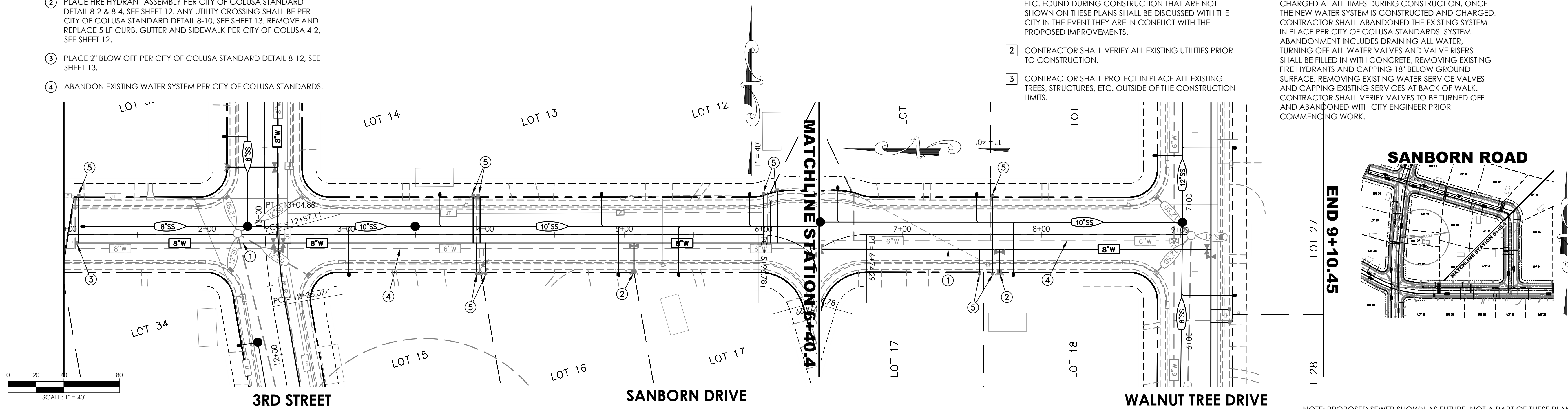
- PLACE 1" WATER SERVICE AND METER PER CITY OF COLUSA STANDARD DETAIL 8-1 & 8-6, SEE SHEET 12. CONTRACTOR TO TIE WATER SERVICE TO EXISTING RESIDENCE LINE.

NOTES:

- EXISTING VAULTS, VALVES, STRUCTURES, ETC. ARE APPROXIMATE AND WERE ENCOUNTERED AT THE TIME OF THE SURVEY. ANY TANKS, VAULTS, VALVES, STRUCTURES, ETC. FOUND DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE PLANS SHALL BE DISCUSSED WITH THE CITY IN THE EVENT THEY ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING TREES, STRUCTURES, ETC. OUTSIDE OF THE CONSTRUCTION LIMITS.

NOTES:

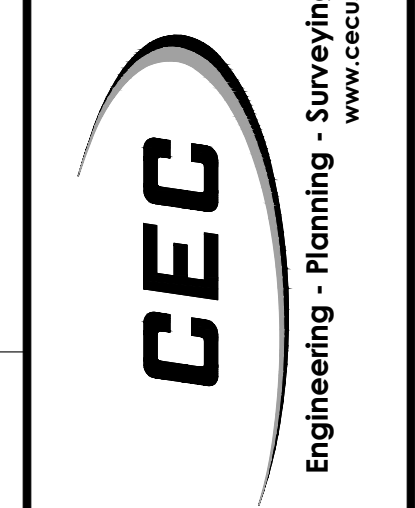
- ALL SAWCUT LINES SHALL BE NEAT STRAIGHT LINES.
- CONTRACTOR SHALL KEEP THE EXISTING WATER SYSTEM CHARGED AT ALL TIMES DURING CONSTRUCTION. ONCE THE NEW WATER SYSTEM IS CONSTRUCTED AND CHARGED, CONTRACTOR SHALL ABANDON THE EXISTING SYSTEM IN PLACE PER CITY OF COLUSA STANDARDS. SYSTEM ABANDONMENT INCLUDES DRAINING ALL WATER, TURNING OFF ALL WATER DRAINS AND VALVE RISERS SHALL BE FILLED IN WITH CONCRETE, REMOVING EXISTING FIRE HYDRANTS AND CAPPING 18" BELOW GROUND SURFACE. REMOVING EXISTING WATER SERVICE VALVES AND CAPPING EXISTING SERVICES AT BACK OF WALK. CONTRACTOR SHALL VERIFY VALVES TO BE TURNED OFF AND ABANDONED WITH CITY ENGINEER PRIOR COMMENCING WORK.



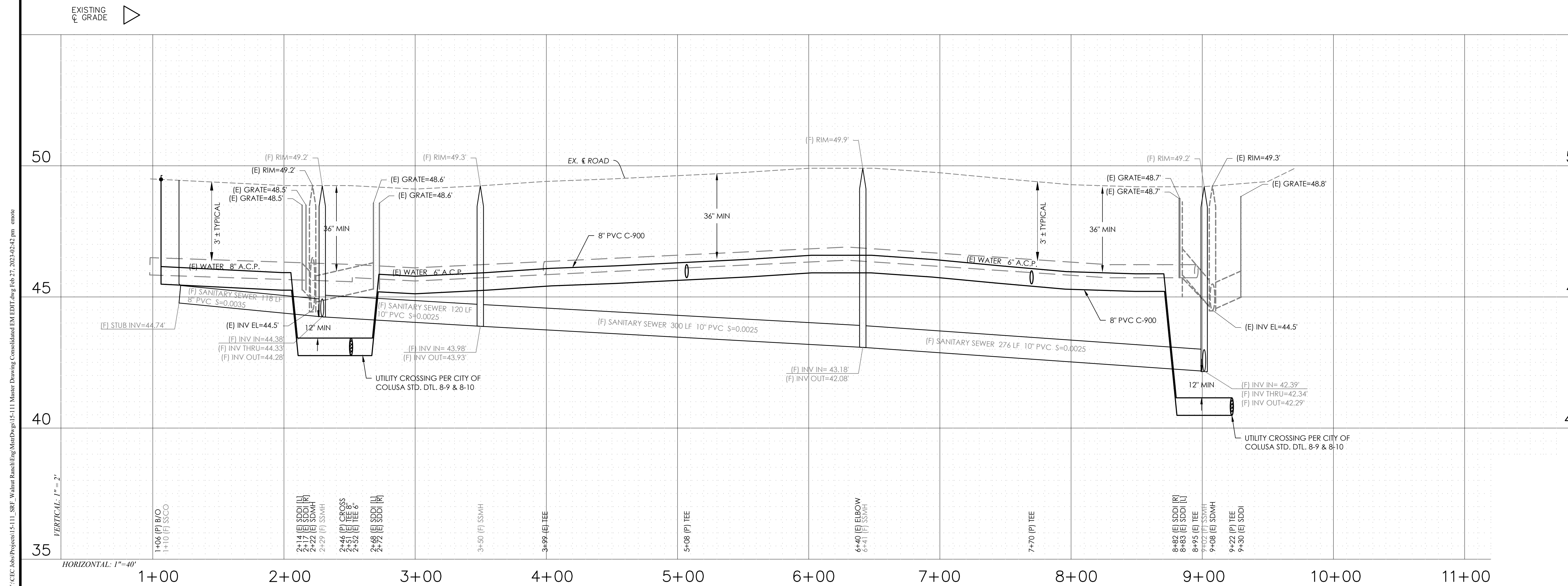
NOTE: PROPOSED SEWER SHOWN AS FUTURE, NOT A PART OF THESE PLANS

NO.	DATE	DESCRIPTION
1	07-20-2017	
DATE:		07-20-2017
SCALE:		1"=40'
DRAWN BY:		NIL
DESIGNED BY:		AV
CHECKED BY:		DLS

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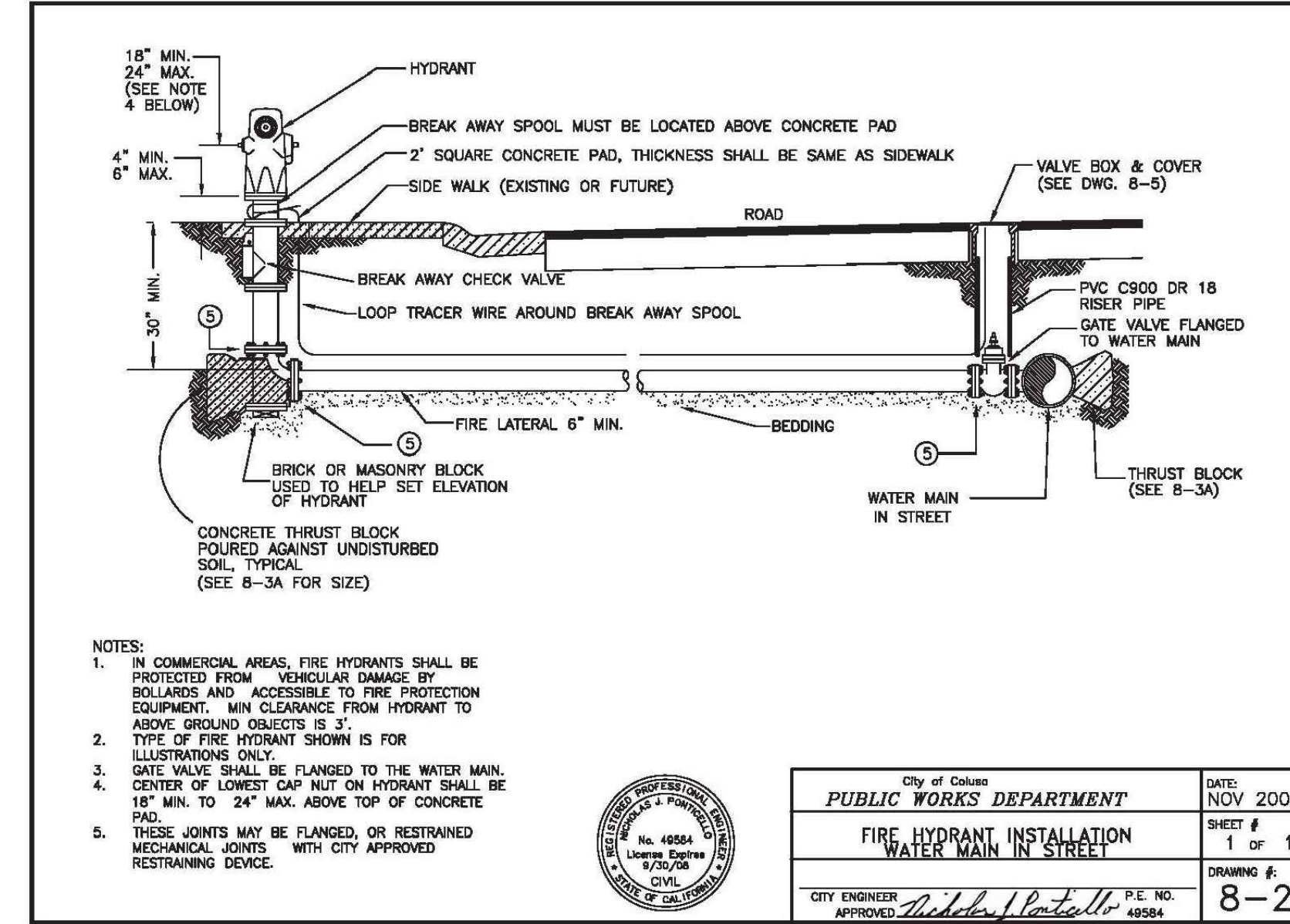
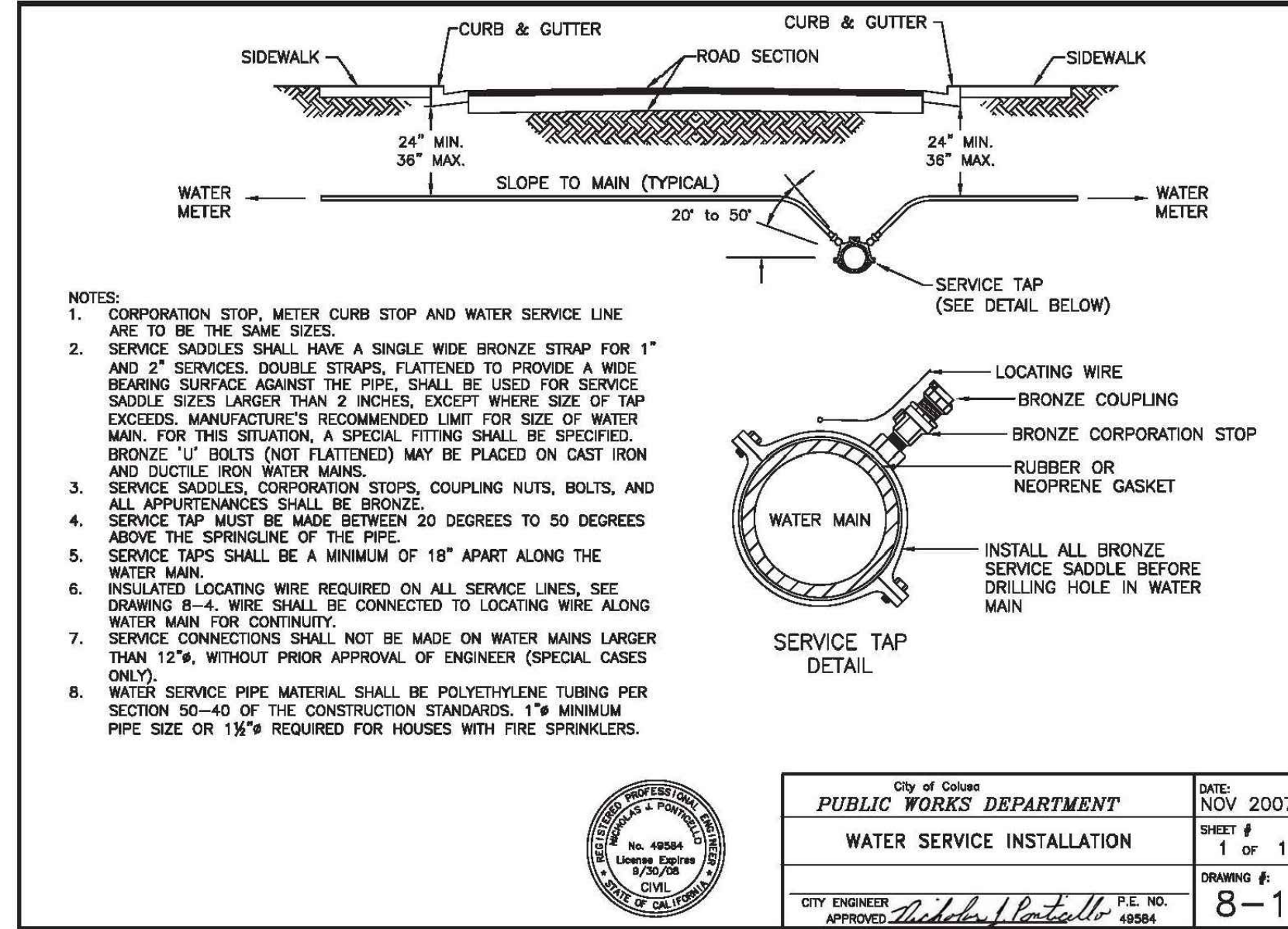
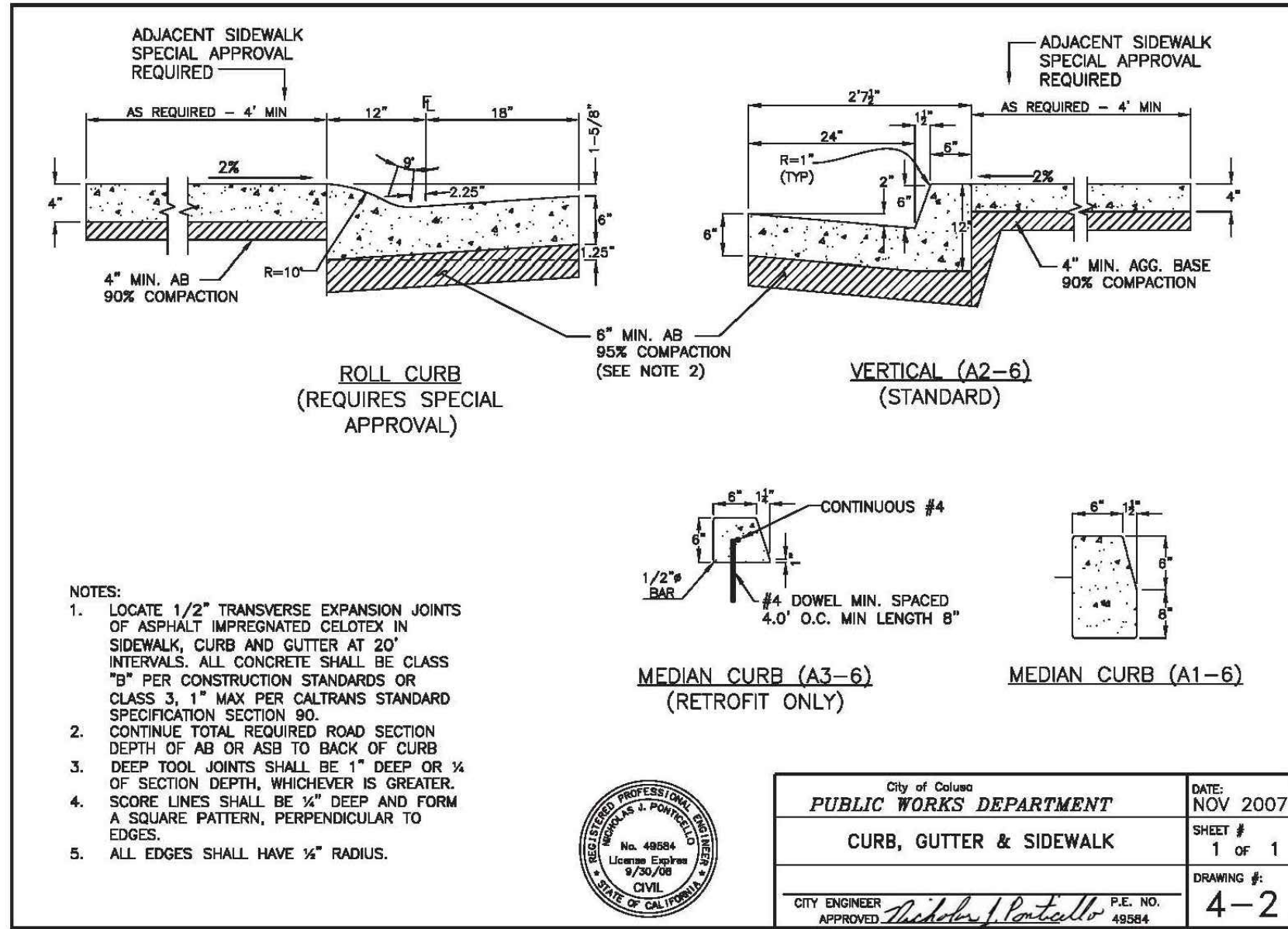


PROJECT NUMBER	15-111
SHEET	11 OF 14
WALNUT RANCH, UNIT 1, 2 & 3	
SANBORN DRIVE 1+00 TO 9+30	



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REQUIRED BEARING AREA IN TOTAL SQUARE FEET

TYPE OF FITTING	90° BEND	45° BEND	11-1/4° BEND 22-1/2° BEND	TEE	DEAD END	TEE WITH PLUG	CROSS WITH PLUGS
4"	2	1	1	2	2		
6"	4	2	1	3	3		
8"	7	4	2	5	5		
10"	12	6	3	8	8		
12"	16	10	5	12	12		

THRUST BLOCKS NOT ALLOWED
USE RESTRAINED JOINTS WITH RESTRAINED LENGTH PER SEE SHEET 2 FOR "DEAD ENDS"

NOTES:

- THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS "B" CONCRETE. BEARING AREAS GIVEN ARE FOR TEST PRESSURES OF 150 PSI IN SOIL WITH 2000 LBS BEARING CAPACITY. IF TEST PRESSURE IS HIGHER OR SOIL BEARING CAPACITY IS LOWER, THRUST BLOCK SIZE SHALL BE SUBJECT TO APPROVAL BY AGENCY.
- THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED SOIL. IF THIS CANNOT BE DONE, USE RESTRAINED JOINTS TO RESIST THRUST OVER RESTRAINED LENGTHS WITH AGENCY APPROVAL.
- PIPE JOINTS ARE TO BE KEPT CLEAR OF CONCRETE.
- FOR DEAD ENDS, INSTALL 2" TEMPORARY BLOW OFF PER DETAIL B-12.

City of Calaveras
PUBLIC WORKS DEPARTMENT
THRUST BLOCK BEARING AREA
DATE: NOV 2007
SHEET # 1 OF 2
DRAWING # 8-3

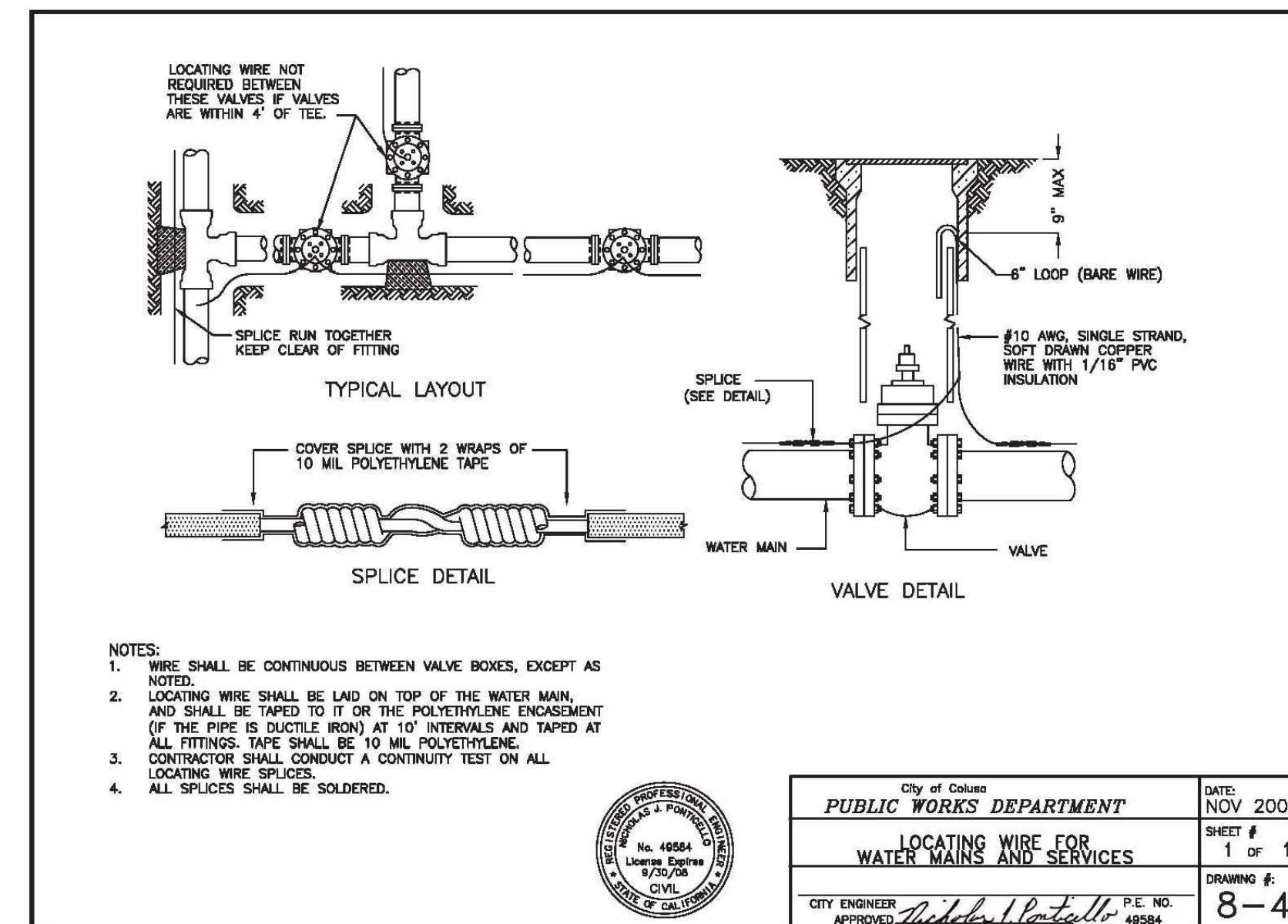
RESTRAINED LENGTH IN FEET

PIPE CONFIGURATION	CROSSING PIPE SIZE	30" COVER AND GREATER				60" COVER AND GREATER					
		6"	8"	10"	12"	6"	8"	10"	12"		
IN LINE VALVE	6"	38	45	58	70	17	17	28	32	41	
VALVE AT TEE	6"	8	8	17	13	37	48	8	8	12	10
INTERSECTING PIPE	10"	6	6	6	6	19	15	39	6	6	6
TEE W/O THRUST BLOCK	12"	6	6	6	6	14	10	32	6	6	6
VALVE AT CROSS	6"	6	6	18	15	41	50	6	6	14	12
DEAD END W/O THRUST BLOCK	12"	6	6	6	6	18	14	34	6	6	6

NOTES:

- ALL JOINTS WITHIN THE RESTRAINED LENGTH MUST BE RESTRAINED.
- RESTRAINING DEVICES FOR M/S: FOR DUCTILE IRON USE EBMA MAGALUG 1100, STAR PIPE PRODUCTS STARBRIP 3000, OR SIGMA ON LOK SLD; FOR PVC PIPE USE EBMA 2000PV, OR STAR PIPE PRODUCTS ALL (GSP 3000).
- RESTRAINING DEVICES FOR PUSH-ON JOINTS: FOR DUCTILE IRON USE U.S. PIPE FIELD LOK GASKET, U.S. PIPE TR FLEX PIPE, OR APPROVED EQUAL; RESTRAINED PVC PUSH-ON JOINTS NOT ALLOWED. USE DUCTILE IRON PIPE ONLY FOR RESTRAINED PUSH-ON JOINTS.
- IF THRUST BLOCK IS NOT INSTALLED BEHIND TEE, RESTRAINED LENGTH SHALL BE APPROVED BY AGENCY.
- THIS CONFIGURATION IS ALLOWED ONLY IF A THRUST BLOCK CANNOT BE INSTALLED BEHIND THE TEE/DEAD END IN ACCORDANCE WITH SHEET 1. IF THRUST BLOCK IS INSTALLED, RESTRAINED LENGTH NOT REQUIRED.
- JOINTS ON CROSSING PIPES CROSSING PIPES SHALL BE RESTRAINED FOR MINIMUM 18 FEET IN EACH DIRECTION.
- RESTRAINED LENGTHS ARE BASED ON 150 PSI PRESSURE. IF HIGHER PRESSURE OR HIGHER SURGES ARE ANTICIPATED, THEN THIS TABLE DOES NOT APPLY AND RESTRAINED LENGTHS MUST BE APPROVED BY AGENCY.

City of Calaveras
PUBLIC WORKS DEPARTMENT
PIPE RESTRAINED LENGTH
DATE: NOV 2007
SHEET # 2 OF 2
DRAWING # 8-3



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Engineering - Planning - Surveying - Community Development
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DETAILS

PROJECT NUMBER: 15-111
SHEET 12 OF 14

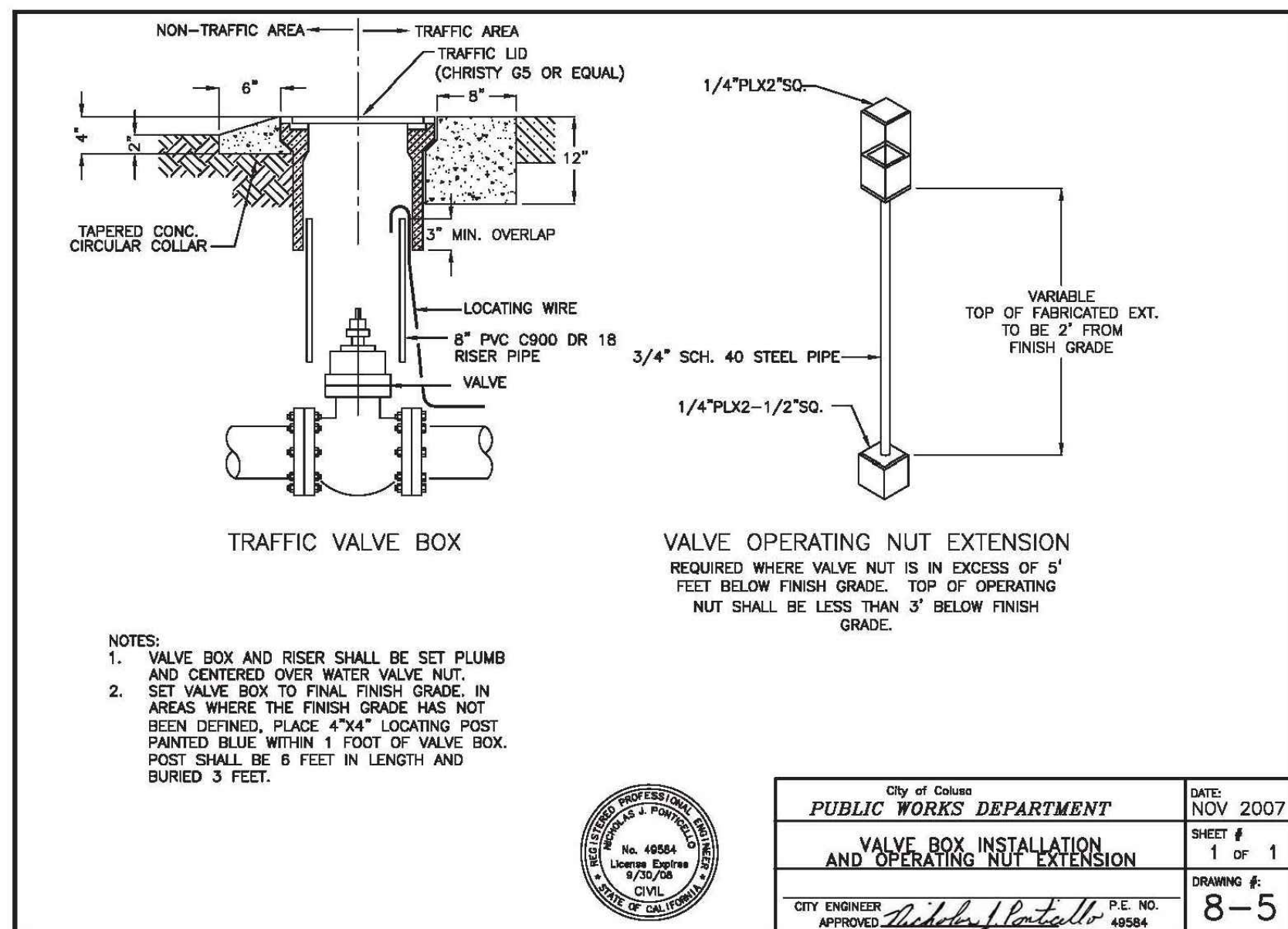
WALNUT RANCH, UNIT 1, 2 & 3

DATE: 07-20-2017
SCALE: 1"=40'
DRAWN BY: NTL
DESIGNED BY: AV
CHECKED BY: DLS

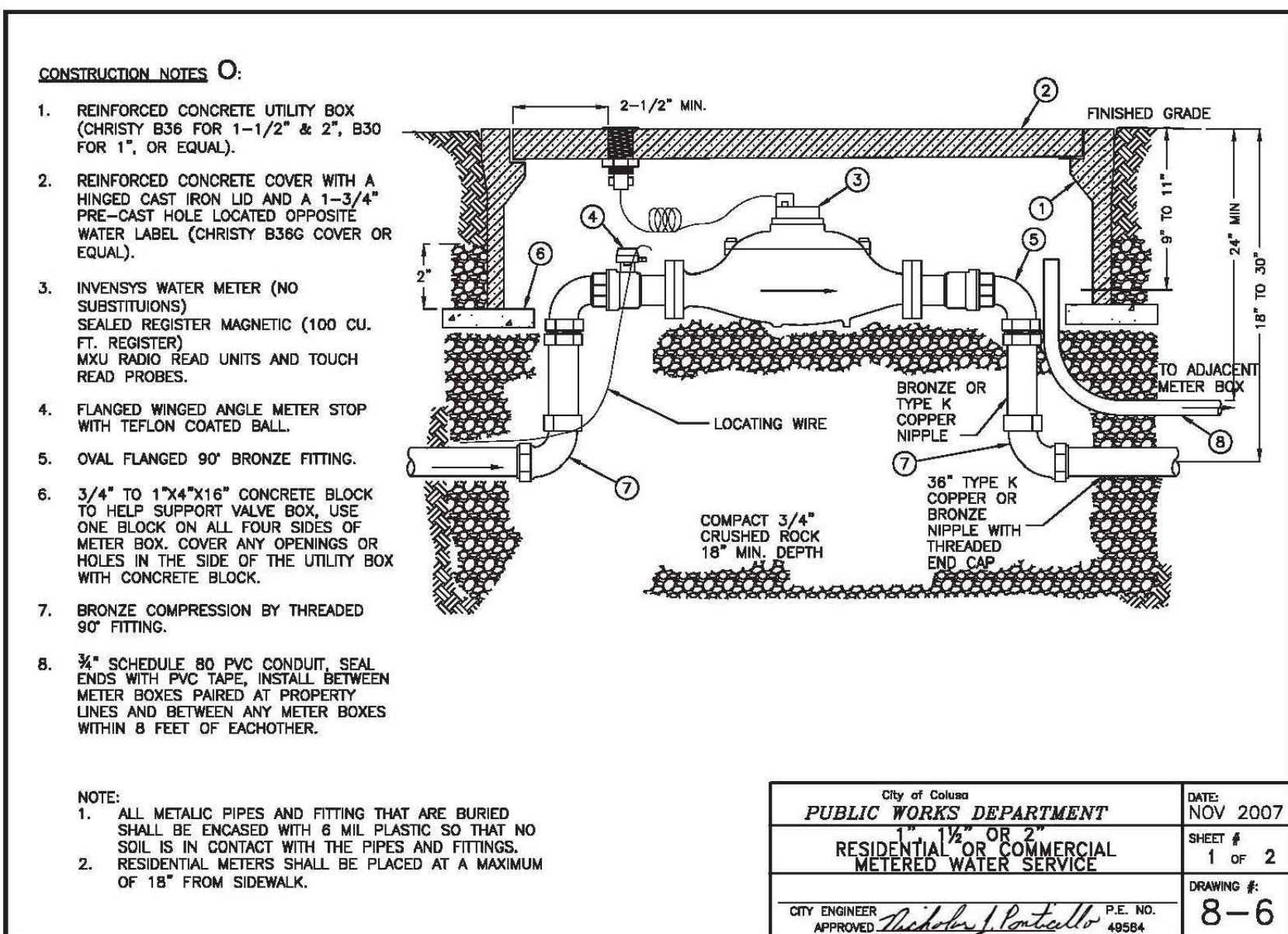
NO. DATE DESCRIPTION

PROFESSIONAL ENGINEER
RICHARD PORTILLO
No. 49264
Expires 08/25/2026
CIVIL
STATE OF CALIFORNIA

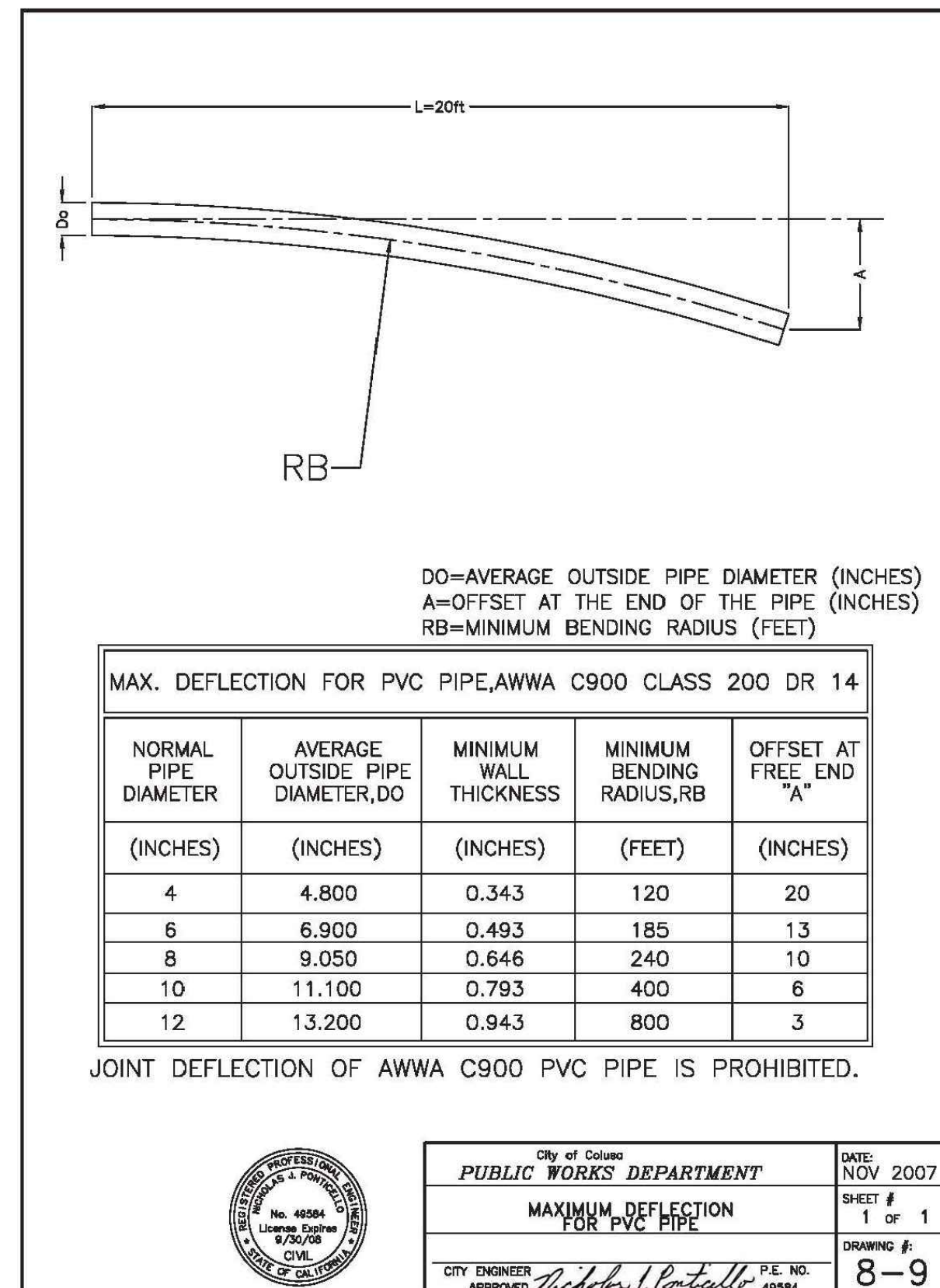
City of Calaveras
PUBLIC WORKS DEPARTMENT
LOCATING WIRE FOR WATER MAINS AND SERVICES
DATE: NOV 2007
SHEET # 1 OF 1
DRAWING # 8-4



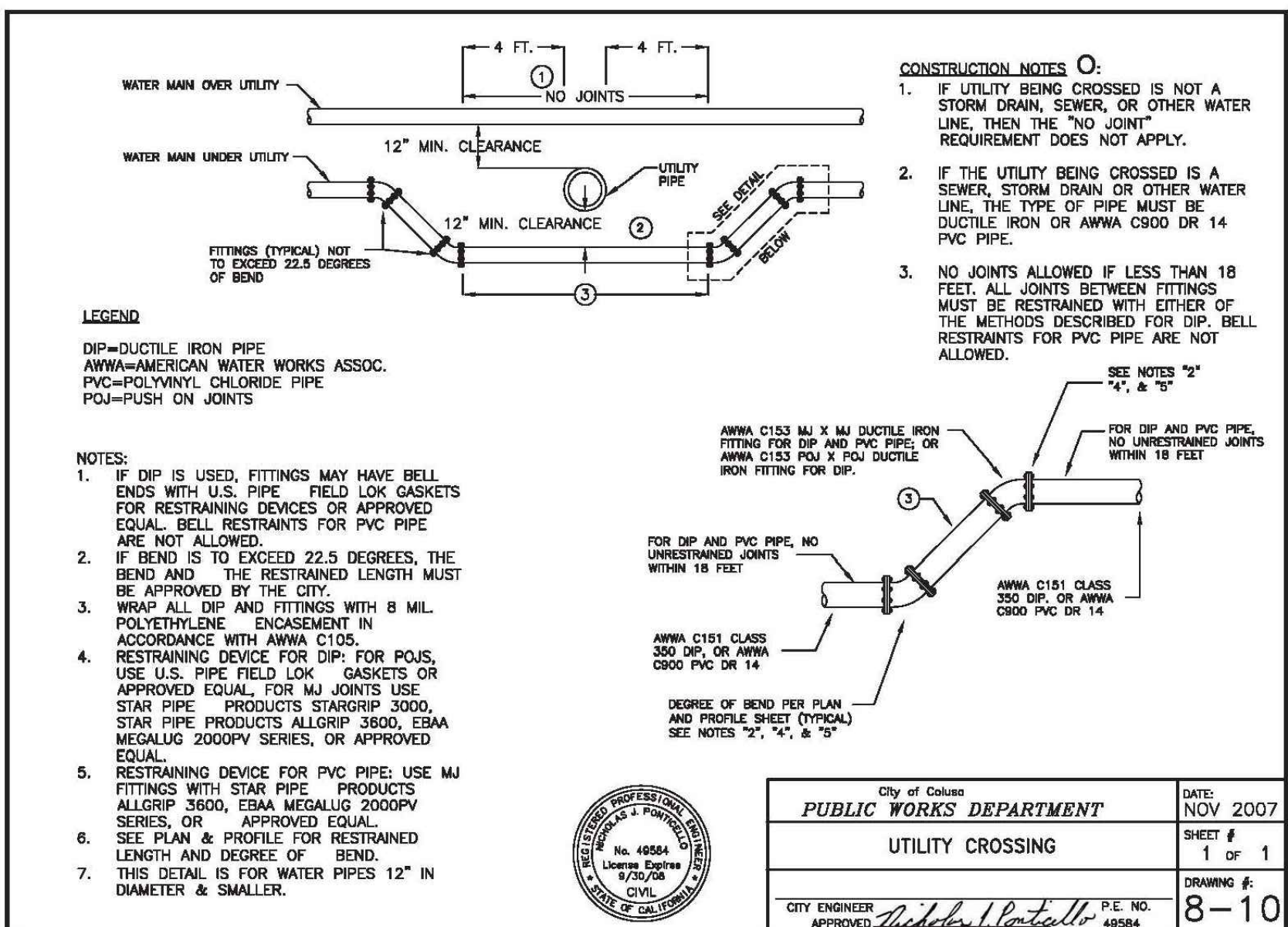
City of Colton PUBLIC WORKS DEPARTMENT	DATE: NOV 2007
VALVE BOX INSTALLATION AND OPERATING NUT EXTENSION	SHEET # 1 OF 1
CITY ENGINEER APPROVED: <i>Rudolph Portello</i> P.E. NO. 49584	DRAWING #: 8-5



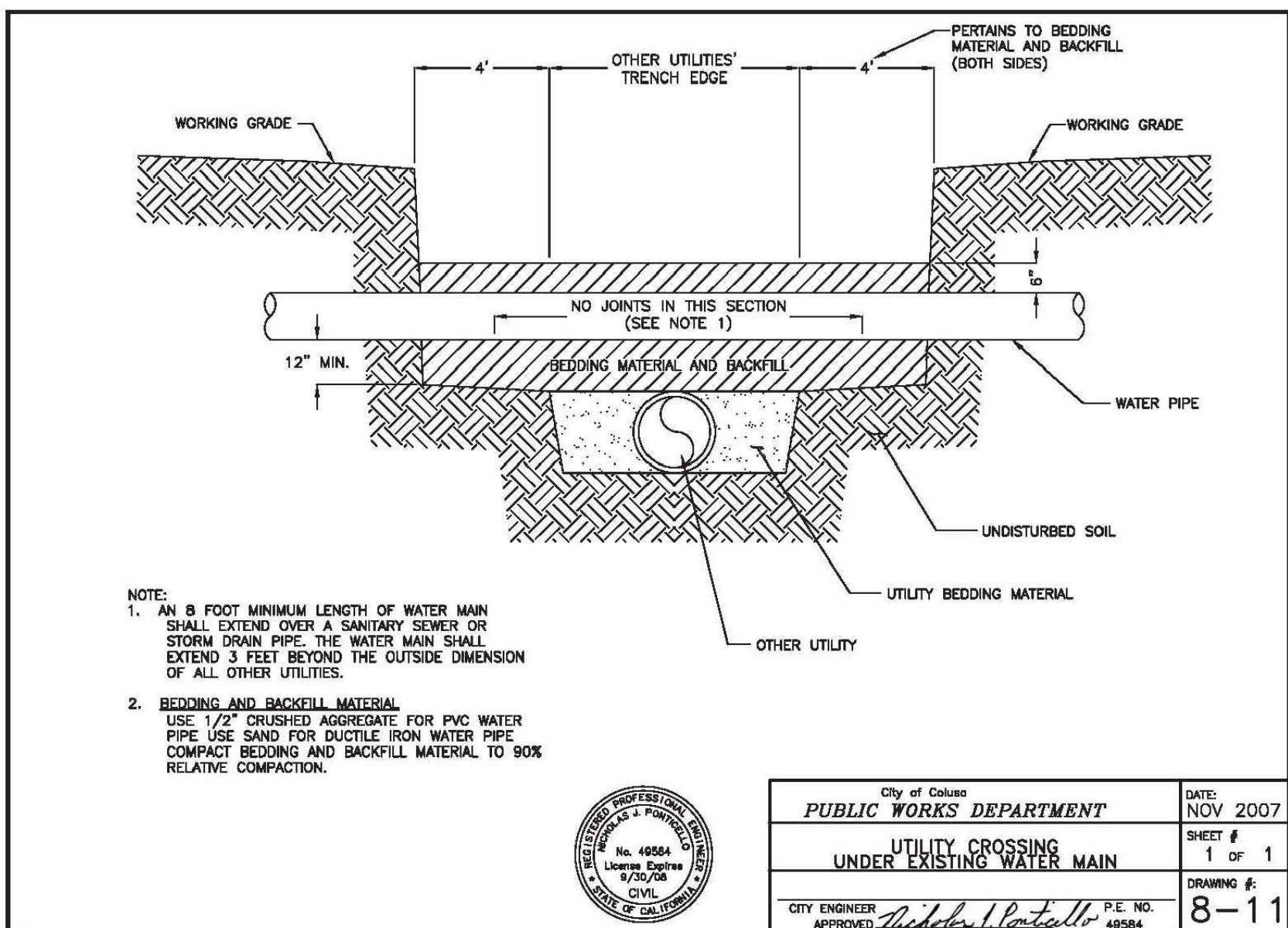
City of Colton PUBLIC WORKS DEPARTMENT	DATE: NOV 2007
RESIDENTIAL OR COMMERCIAL METERED WATER SERVICE	SHEET # 1 OF 2
CITY ENGINEER APPROVED: <i>Rudolph Portello</i> P.E. NO. 49584	DRAWING #: 8-6



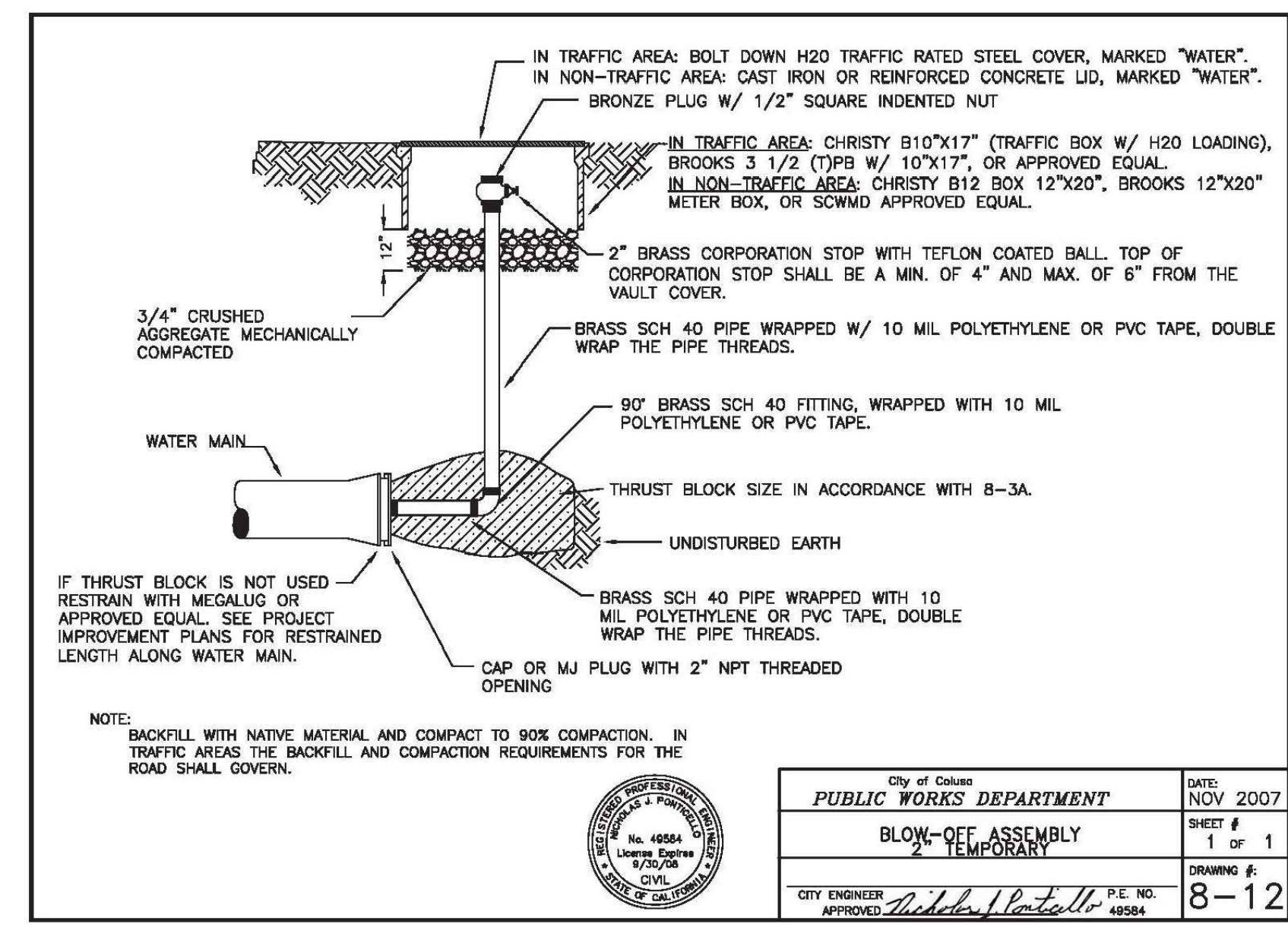
City of Colton PUBLIC WORKS DEPARTMENT	DATE: NOV 2007
MAXIMUM DEFLECTION FOR PVC PIPE	SHEET # 1 OF 1
CITY ENGINEER APPROVED: <i>Rudolph Portello</i> P.E. NO. 49584	DRAWING #: 8-9



City of Colton PUBLIC WORKS DEPARTMENT	DATE: NOV 2007
UTILITY CROSSING	SHEET # 1 OF 1
CITY ENGINEER APPROVED: <i>Rudolph Portello</i> P.E. NO. 49584	DRAWING #: 8-10



City of Colton PUBLIC WORKS DEPARTMENT	DATE: NOV 2007
UTILITY CROSSING UNDER EXISTING WATER MAIN	SHEET # 1 OF 1
CITY ENGINEER APPROVED: <i>Rudolph Portello</i> P.E. NO. 49584	DRAWING #: 8-11



City of Colton PUBLIC WORKS DEPARTMENT	DATE: NOV 2007
BLOW-OFF ASSEMBLY TEMPORARY	SHEET # 1 OF 1
CITY ENGINEER APPROVED: <i>Rudolph Portello</i> P.E. NO. 49584	DRAWING #: 8-12

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PROJECT NUMBER 15-111	DESCRIPTION	NO.	DATE
		1	07-20-2017
SHEET 13 OF 14	SCALE:	1"=40'	INTL
	DRAWN BY:	AV	AV
	DESIGNED BY:	AV	AV
	CHECKED BY:	DLS	DLS
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		CEC Engineering - Planning - Surveying - Community Development www.cecusa.net	
WALNUT RANCH, UNIT 1, 2 & 3		DETAILS	
WATERLINE IMPROVEMENT PLANS			

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