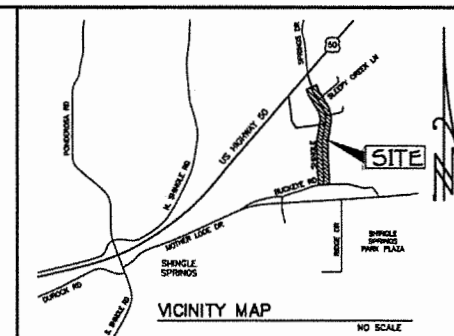


IMPROVEMENT PLANS FOR: SHINGLE SPRINGS VILLAGE SEWER MAIN & WATER MAIN EXTENSION

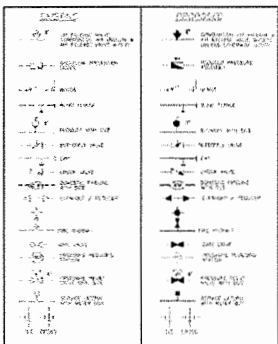
EL DORADO COUNTY, CALIFORNIA
BAKER-WILLIAMS ENGINEERING GROUP WJLD #



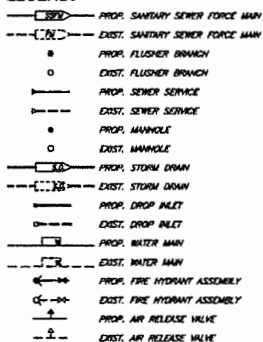
LIST OF ABBREVIATIONS:

- AC ASPHALTIC CONCRETE
- AB AGGREGATE SUBBASE
- ANG. PT. ANGLE POINT
- AVV AIR RELEASE VALVE
- BB BOTTOM OF BERM
- BDY. BOUNDARY
- BO. BELOW OFF VALVE
- BOC BACK OF CURB
- BOV BACK OF VALVE
- BRW BOTTOM OF RETAINING WALL
- BSW BOTTOM SOUND WALL
- BT BUTTERFLY VALVE
- BVC BEGIN VERTICAL CURVE
- BWV BACKWATER VALVE
- CAW CALIFORNIA AMERICAN WATER
- CD CHORD
- CL CLASS
- CLD CLEAR
- CO CLEANOUT
- CONC. CONCREMENTION
- CZ CONTROLLED
- CONC. CONCRETE
- CONST. CONSTRUCTION
- CP CURVE RETURN
- CSR CORRUGATED STEEL PIPE
- CT CURB
- CYS CORROSION TEST STATION
- CAD CURB AND GUTTER
- DEL. DELTA
- DET. DETAIL
- DIA. DIAMETER
- DI. DROP INLET
- D.I.P. DUCTILE IRON PIPE
- DI. DRIVE
- D.W. DRAINWAY
- EX - EX - EXIST. EXISTING
- ELEV. ELEVATION
- EP. EDGE OF PAVEMENT
- ESMT. EASEMENT
- EV. C/D VERTICAL CURVE
- FC. FACE OF CURB
- FE. FINISHED FLOOR ELEVATION
- FG. FRESH GRADE
- FI. FIRE HYDRANT
- F/L. FLOWLINE
- FO. FIBER OPTIC
- GA. GALVANIZED
- GI. GRADE BREAK
- G.I.P. GALVANIZED IRON PIPE
- GN. GRADE
- GS. GRAVITY SEWER LIMITS
- GM. GAS MAIN
- GV. GATE VALVE
- HGL. HYDRAULIC GRADE LINE
- HP. HIGH POINT
- HW. HWOIST
- I.P. IRON PIPE
- IR. IRRIGATION
- INT. INTERSECTION
- JT. JOINT TRENCH
- JP. JOINT POLE
- L. LENGTH
- LF. LINEAR FEET
- LH. LAKE
- LP. LOW POINT
- LT. LEFT
- MAE. MANHOLE
- MAN. MANHOLE
- MA. MANHOLE
- MA. O.C. NOT A PART OF THIS CONTRACT
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- PA. PACIFIC TELEPHONE
- P.C.B.E. PNEUMATIC GAS AND ELECTRIC
- PH. POINT OF VERTICAL INTERSECTION
- P/L. PROPERTY LINE
- P.R.C. POINT OF REVERSE CURVE
- PP. PROP. PROPOSED
- P.S.I. POUNDS PER SQUARE INCH
- PT. POINT
- PCP. POLYETHYLENE GLYCOL PIPE
- R. RADIOS
- RCP. REINFORCED CONCRETE PIPE
- RD. ROAD OR ROOF DRAIN
- RL. RESTRAINED LENGTH
- RT. RIGHT
- RAW. RIGHT OF WAY
- RAW. RAW WATER
- S. SLOPE
- SD - (D). STORM DRAIN
- SHGL. SLOPE HYDRAULIC GRADE LINE
- SHLD. SACRAMENTO MUNICIPAL UTILITY DISTRICT
- S.O. SIDE OPENING
- SS - (S). SANITARY SEWER
- SSM. SANITARY SEWER FORCE MAIN
- ST. STREET
- STA. STATION
- SSB. SUBSTATION
- TBC. TOP BACK OF CURB
- TC. TOP CURB
- TFM. TOP OF FORCE MAIN
- TRW. TOP OF RETAINING WALL
- TSW. TOP SOUND WALL
- TW. TOP OF WATER MAIN
- TW. TOP OF WALK
- T. TRANSVERSEUR
- TP. TOP OF PAVEMENT
- TP. PHYSICAL
- VC. VERTICAL CURVE
- W. WATER
- W/ WITH
- W/W. WATER MAIN

WATER LEGEND



LEGEND:



ITEM	MANUFACTURER	MODEL/TYPE/SIZE	QUANTITY
PIPE			
MANHOLES			
SERVICES			

ITEM	MANUFACTURER	MODEL/TYPE/SIZE	QUANTITY
PIPE			
SERVICES			
FIRE HYDRANTS			
VALVES (BY TYPE)			

APPROVED
EL DORADO COUNTY
PLANNING COMMISSION
Board of Supervisors
DATE June 28, 2016
BY [Signature]

ADDITIONAL PERMITS REQUIRED:
1. EL DORADO COUNTY ENCROACHMENT PERMIT

SHEET INDEX:

1. COVER SHEET
2. GENERAL NOTES & DETAILS
3. GENERAL DETAILS
4. UTILITY PLAN
5. SHINGLE SPRINGS DRIVE - PLAN & PROFILE
6. SHINGLE SPRINGS DRIVE - PLAN & PROFILE
7. SHINGLE SPRINGS DRIVE - PLAN & PROFILE
8. SHINGLE SPRINGS DRIVE - PLAN & PROFILE
9. ENTRANCE 1, 2 & 3 - PLAN & PROFILE
10. EROSION & SEDIMENT CONTROL PLAN
11. EROSION CONTROL NOTES & DETAILS

WATER SERVICE CERTIFICATION

I HEREBY CERTIFY THAT THE WATER SYSTEM AS SHOWN ON DRAWING NUMBER _____ SHEETS 1 THROUGH 11 HAS BEEN DESIGNED TO PROVIDE EACH FACILITY OF THIS PROJECT WITH ADEQUATE WATER PRESSURE AND FIRE FLOW AS OF THE DATE SHOWN, BASED ON CRITERIA SUPPLIED BY THE EL DORADO IRRIGATION DISTRICT.

REGISTERED CIVIL ENGINEER _____ RCE NO. _____ DATE _____

SEWER SERVICE CERTIFICATION

I HEREBY CERTIFY THAT THE SEWER SYSTEM AS SHOWN ON DRAWING NUMBER _____ SHEETS 1 THROUGH 11 HAS BEEN DESIGNED TO PROVIDE EACH FACILITY OF THIS PROJECT WITH SEWER SERVICE AS OF THE DATE SHOWN, BASED ON CRITERIA SUPPLIED BY THE EL DORADO IRRIGATION DISTRICT.

REGISTERED CIVIL ENGINEER _____ RCE NO. _____ DATE _____

RECORD DRAWING CERTIFICATE

THIS SET OF PLANS, HAVING BEEN REVIEWED BY ME, REFLECT ALL APPROVED REVISIONS TO THE PROJECT KNOWN TO ME, AND ALL FIELD DEVIATIONS TO THE PLANNED IMPROVEMENTS BY THE CONSTRUCTION CONTRACTOR, AS REPORTED TO ME AS OF THE DATE SHOWN. IT DOES NOT REPRESENT FIELD VERIFICATION OF PLANNED IMPROVEMENTS BY ME.

REGISTERED CIVIL ENGINEER _____ RCE NO. _____ DATE _____

UTILITY REPRESENTATIVES		
UTILITY	REPRESENTATIVE	TELEPHONE
GAS	N/A	
ELECTRICITY	Jennifer Donovan	821-7228
PHONE	Darren Mortensen	821-8928
AT&T		
WATER	Mike Brink	842-4054
FIRE	EL DORADO COUNTY FIRE DISTRICT	844-8430
SEWER	EL DORADO IRRIGATION DISTRICT	842-4054
DRAINAGE	EL DORADO COUNTY	842-8941
CABLE	COMCAST	584-9773
U.S.A.		1-800-227-2600

EL DORADO COUNTY FIRE DISTRICT
FIRE CHIEF _____ DATE _____
PLANS APPROVED BY:
ANDREW S. GARDNER RCE#40187 DATE _____
COUNTY ENGINEER
EL DORADO COUNTY DEPT. OF TRANSPORTATION

EL DORADO IRRIGATION DISTRICT
APPROVED FOR CONSTRUCTION _____ INCE# _____
PROJECT No. _____ DRAWING No. _____
2286 DEV 718286

NO.	DESCRIPTION	DATE	APPROVED BY

IBW BAKER-WILLIAMS ENGINEERING GROUP
Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services
8020 Rutland Drive, Suite 19 - Carmichael, CA. 95608
(916) 331-4336 - fax (916) 331-4430 - office@bwengr.com

SCALE: horizontal 1"=200'
vertical N/A
DATE: 06/2015
designed by: S.F.L.
checked by: M.T.R.
710
Field book

COVER SHEET
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

SHEET 1 OF 11
14-11-53

SHINGLE SPRINGS VILLAGE-SEWER MAIN & WATER MAIN EXTENSION - 141103-007-C06-S01

EL DORADO COUNTY COMMERCIAL GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL CONFORM TO THE COUNTY OF EL DORADO DESIGN AND IMPROVEMENT STANDARDS (HARDEN), THE "STANDARD EROSION AND SEDIMENT CONTROL ORDINANCE," THE DRAINAGE MANUAL, THE OFF-STREET PARKING AND LOADING ORDINANCE AND THE STATE OF CALIFORNIA HAZARDOUS WASTE ACT AND REGULATIONS.
2. ALL REFERENCE TO "STANDARD SPECIFICATIONS" SHALL MEAN THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, JULY 1995 EDITION.
3. CLEARING AND GRUBBING SHALL CONFORM TO THE PROVISIONS OF SECTION 10 OF THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL CONTACT THE EL DORADO COUNTY RESOURCE CONSERVATION DISTRICT PRIOR TO COMMENCING WORK ON REGENERATION. REGENERATION SHALL BE ACCOMPLISHED BETWEEN SEPTEMBER 15 AND OCTOBER 15 AND IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATION OF THE EL DORADO COUNTY RESOURCE CONSERVATION DISTRICT.
5. IF GRADING ACTIVITIES ARE NOT COMPLETED BY SEPTEMBER, THE DEVELOPER SHALL IMPLEMENT A TEMPORARY GRADING AND EROSION PLAN. SUCH TEMPORARY PLANS SHALL BE SUBMITTED TO SOA CONSERVATION SERVICE FOR THEIR REVIEW AND FORWARDING OF RECOMMENDATIONS TO THE DEPARTMENT OF TRANSPORTATION. TRANSPORTATION DEPARTMENT SHALL APPROVE OR CONDITIONALLY APPROVE SUCH PLANS AND CAUSE THE DEVELOPER TO IMPLEMENT SAID PLAN ON OR BEFORE OCTOBER 15. ALL AREAS GRADED DURING THE WARM SEASON (OCTOBER 15-APRIL 15) SHALL BE REVEGETATED WITHIN 15 DAYS UPON COMPLETION.
6. ALL EXCAVATION, EMBANKMENT, AND BACKFILL SHALL CONFORM TO THE PROVISIONS IN SECTION 26 OF THE STANDARD SPECIFICATIONS. ALL SPECIFICATIONS EXCEPT AS MODIFIED BELOW. TRENCH BACKFILL WITHIN ROADWAYS SHALL BE 3" MINIMUM AND COMPACTED IN ACCORDANCE WITH COUNTY STANDARDS UNLESS OTHERWISE SPECIFIED.
7. ALL MATERIALS INCLUDING CURBPIPE PIPE, CLASS A CONCRETE AND REINFORCING STEEL, SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS.
8. AGGREGATE BASE SHALL CONFORM TO THE PROVISIONS OF SECTION 28 OF THE STANDARD SPECIFICATIONS FOR CLASS 2 AGGREGATE BASE.
9. ALL MATERIALS INCLUDING CURBPIPE PIPE, CLASS A CONCRETE AND REINFORCING STEEL, SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS.
10. SUBGRADE - WHEN ASPHALT CONCRETE OR ASPHALT CONCRETE BASE IS TO BE PLACED ON THE GRADING PLANE, THE GRADING PLANE AT ANY POINT SHALL ALSO CONFORM TO THE GRADING PLANE AT ANY POINT AS ESTABLISHED BY THE ENGINEERS. WHEN SUB-BASE OR BASE MATERIAL (OTHER THAN ASPHALT CONCRETE BASE) IS TO BE PLACED ON THE GRADING PLANE, THE GRADING PLANE AT ANY POINT SHALL NOT VARY MORE THAN 0.05 FOOT ABOVE THE GRADE ESTABLISHED BY THE ENGINEER.
11. STREET NAME SIGNS SHALL BE PLACED ON EACH INTERSECTION. MATERIALS, LOCATIONS AND INSTALLATION SHALL CONFORM TO THE STANDARDS OF THE EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION.
12. STOP SIGNS, PAINTED STOP BARNS AND THE PAINTED WORK "STOP" SHALL BE PLACED AS SHOWN ON THE PLANS. STOP SIGNS SHALL CONFORM TO STANDARD PLAN 105.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL THE "F" MARKERS AT BOTH ENDS OF CURBSIDES. THE "F" MARKERS SHALL BE APPROVED AND INSTALLED WITHIN THE "STOP" STRIP AT THE TOP OF THE MARKER. ABOVE ELEVATION 1,000 FEET, THE CONTRACTOR SHALL FURNISH AND INSTALL THREE "F" MARKERS AT EACH END OF CURBSIDES. ABOVE ELEVATION 1,000 FEET INTERVALS AND AT BOTH ENDS OF CURBSIDES. ABOVE ELEVATION 1,000 FEET, THE CONTRACTOR SHALL INSTALL METAL MARKER POSTS WITH SHAW PILE BRACKETS AT EACH FIVE FEET INTERVAL.
14. THE CONTRACTOR SHALL HAVE A RESPONSIBILITY PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING THE CONSTRUCTION PERIOD.
15. THE CONTRACTOR SHALL CONTACT THE EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION 48 HOURS IN ADVANCE OF COMMENCING WORK TO SCHEDULE A PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL NOT START ANY GRADING UNTIL THE COUNTY COMPLETES PRE-GRADING INSPECTION. THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT AND THE NECESSARY DRAINAGE AND EMBANKMENT PERMITS FROM THE TRANSPORTATION DEPARTMENT PRIOR TO STARTING WORK.
16. CONTRACTOR SHALL NOT START ANY UTILITY WORK UNTIL A JOINT TRENCH COMPOSITE PLAN HAS BEEN APPROVED BY THE TRANSPORTATION DEPARTMENT (WATER AND SEWER EXCEPTED). ALL UTILITY WORK PERFORMED IN THE COUNTY RIGHT OF WAY SHALL REQUIRE AN EMBANKMENT PERMIT.
17. ALL WORK SHALL BE ACCOMPLISHED TO THE SATISFACTION OF THE EL DORADO COUNTY DIRECTOR OF TRANSPORTATION OR AUTHORIZED REPRESENTATIVE.
18. WATER & SEWER LINES SHALL BE TESTED AND APPROVED PRIOR TO PLACING PAVEMENT ON THE STREET.
19. ALL SERVICES, INCLUDING WATER METER BOXES, WILL BE TAKEN TO PROPERTY LINE ON JUST BENEATH TOP OF CUTS AND TOP OF FILLS, WHICH EVER IS DEEPER. (IF SLOPE IS EQUAL TO 3:1 OR FLATTER, SERVICE STUDS MAY TERMINATE AT THE PROPERTY LINE.)
20. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS, SPECIAL PROVISIONS, APPLICABLE EDITIONS OF THE STANDARD SPECIFICATIONS, AND THE APPLICABLE DEVELOPMENT STANDARDS OF THE COUNTY OF EL DORADO.
21. EARTHWORK EXCAVATION _____ FEET, C.V. EXPORT _____ FEET, C.V. EMBANKMENT _____ FEET, C.V. IMPORT _____ FEET, C.V.
22. IF UNUSUAL AMOUNTS OF STONE, BONE, OR ARTIFACTS ARE UNCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP WORK IN THE IMMEDIATE AREA (100' OF THE FIND) AND A QUALIFIED ARCHAEOLOGIST CONSULTED FOR AN ON-SITE EVALUATION. IF THE BONE APPEARS TO BE HUMAN, THE CONTRACTOR SHALL CONTACT THE INDIAN HERITAGE COMMISSION (916-332-7791) IMMEDIATELY.
23. WHERE THERE IS A DROP INLET EXCEEDS 3 FEET IN HEIGHT, REINFORCING STEEL SHALL BE INSTALLED. REINFORCING STEEL SHALL BE #4 BARS, INSTALLED IN THE VERTICAL WALLS AT 12" O.C. (BOTH DIRECTIONS). 3" CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE FACE OF THE WALLS. UNLESS NOTED OTHERWISE, THE #4 BARS SHALL BE ALLOWED IN EXCESS OF 6 FEET IN HEIGHT.

24. WHERE ANY PORTION OF THE STRUCTURE EXCAVATION FOR VERTICAL OR HORIZONTAL STRUCTURES (DRAINAGE, ALLEYS, STAIRWAYS, ETC.) IS WITHIN THE STREET, MATERIAL USED TO BACKFILL SUCH STRUCTURES SHALL CONFORM TO SECTION 10-1.06, "STRUCTURE BACKFILL" OF THE STANDARD SPECIFICATIONS. CONSTRUCTION TESTS MUST BE TAKEN EVERY 2-3 FEET VERTICALLY, WHEN CAST-IN-PLACE STRUCTURES ARE PLACED AGAINST UNDISTURBED NATURAL MATERIAL, THE REQUIREMENT SHALL NOT APPLY.
25. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7, LEGAL RELATIONS AND RESPONSIBILITY OF THE STANDARD SPECIFICATIONS.
26. THE CONTRACTOR SHALL NOT CONSTRUCT ANY WORK WITHOUT ADEQUATE CONSTRUCTION STAKING. AS A MINIMUM, THE FOLLOWING STAKING SHALL BE REQUIRED: 1) CLEARING LIMITS, 2) SLOPE STAKES, 3) WATER LINE STAKES, 4) SEWER LINE STAKES, 5) STORM DRAIN STAKES, 6) FINISHED GRADE STAKES. ADDITIONAL STAKING MAY BE REQUIRED BY DOT DUE TO THE NATURE AND/OR COMPLEXITY OF THE WORK. LOST OR DAMAGED STAKES SHALL BE REPLACED TO THE SATISFACTION OF DOT WHETHER RESULTING FROM CONSTRUCTION PROCEDURES, NEGLIGENCE, OR ANY OTHER CAUSE.
27. THE CONTRACTOR SHALL PROTECT, PLACE AND MAINTAIN ALL LIGHTS, SIGNS, DELINEATORS, BARRICADES, TEMPORARY TRAFFIC STOPPING FLAGMEN, OBSTACLES OR OTHER DEVICES NECESSARY TO PROVIDE FOR THE SAFE AND CONVENIENT PASSAGE OF PUBLIC VEHICLES AND PEDESTRIAN TRAFFIC THROUGH THE CONSTRUCTION SITE.
28. IF THE PRESENCE OF SERPENTINE ROCK (SR) IS DISCOVERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, DOT AND THE EL DORADO COUNTY DEPARTMENT OF ENVIRONMENTAL MANAGEMENT THAT SERPENTINE ROCK IS PRESENT ON THE SITE. ADDITIONALLY, THE CONTRACTOR SHALL IMPLEMENT THE ASSISTED HAZARD MITIGATION PROCEDURES OF THE FLUORITE PLUST PLAN PRIOR TO CONTINUATION OF EARTHWORK IN AREAS WHERE SERPENTINE ROCK IS PRESENT.
29. UPON JOB COMPLETION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE INFORMATION TO BAKER-WILLIAMS ENGINEERING GROUP (BWE) REGARDING ANY UTILITY CHANGES MADE DURING CONSTRUCTION AS WELL AS ANY OTHER INFORMATION WHICH IS REQUIRED TO BE SHOWN ON THE RECORD DRAWINGS BY DOT, THE EL DORADO IRRIGATION DISTRICT (EDID), OTHER UTILITY COMPANIES OR OTHER RESPECTABLE AGENCIES AND TOWN CENTER EAST DESIGN REVIEW COMMITTEE.

EARTHWORK AND GRADING:

1. THE CONTRACTOR SHALL CONTACT THE COUNTY OF EL DORADO DOT 48 HOURS PRIOR TO THE START OF EARTHWORK AND GRADING CONSTRUCTION.
2. THE OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED SOILS ENGINEER TO MONITOR THE SOIL CONDITIONS AND PROVIDE WITHIN-WORK RECOMMENDATIONS SUBJECT TO COUNTY APPROVAL AND INSPECT THE CONTRACTOR'S WORK FOR COMPLIANCE WITH THE APPROVED RECOMMENDATIONS. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA BUILDING CODE AND THE SOILS REPORT PREPARED BY YOUNGBAH & ASSOC.
3. THE CONSTRUCTION TESTING SHALL BE PERFORMED BY THE OWNERS DESIGNATED AGENT AND BE PAID FOR BY THE DEVELOPER (OR CONTRACTOR IN CASE OF REVISIONS). ALL TESTS WITHIN THE RIGHT-OF-WAY SHALL BE APPROVED BY THE COUNTY AND ALL TESTS OUTSIDE THE RIGHT-OF-WAY SHALL BE CERTIFIED BY THE SOILS ENGINEER FOR THE PROJECT.
4. ALL UNDESIRABLE AND SURPLUS MATERIAL SHALL BE REMOVED FROM THE PROPERTY OF THE CONTRACTOR AND SHALL BE DEPOSITED FROM THE SITE UNLESS THE ENGINEER SPECIFIES OTHERWISE.
5. IF BLASTING ACTIVITIES OCCUR IN CONNECTION WITH THE IMPROVEMENTS, THE CONTRACTOR SHALL CONTACT THE BLASTING ACTIVITIES IN COMPLIANCE WITH STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL SUBMIT BLASTING PLANS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING ANY ON-SITE BLASTING ACTIVITIES. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE WORK TO BE ACCOMPLISHED AND A STATEMENT OF THE NECESSITY FOR BLASTING AS OPPOSED TO OTHER METHODS CONSIDERED INCLUDING AVOIDANCE OF HARD ROCK AREAS, SAFETY MEASURES TO BE IMPLEMENTED SUCH AS USE OF BLAST BLANKETS AND TRAFFIC GROUND SHARING IMPACTS. CONTRACTOR SHALL COORDINATE ANY BLASTING ACTIVITIES WITH POLICE AND FIRE DEPARTMENTS TO INSURE PROPER SITE ACCESS CONTROL AND TRAFFIC CONTROL.
6. THE CONTRACTOR SHALL AT ALL TIMES CONFORM TO THE RECOMMENDATIONS FROM THE COUNTY, LOCAL AGENCIES SURROUNDING THE WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF CONTRACT. GRADING SHALL NOT OCCUR WHEN WIND SPEEDS EXCEEDS 10 MPH CONTINUOUSLY FOR MORE THAN 1 HOUR.
7. CONTRACTOR SHALL APPLY EROSION CONTROL MEASURES TO ALL GRADED OR DISTURBED SOILS WITHIN THE WORK AREA AFTER COMPLETION OF IMPROVEMENTS OR AS SOON AS PRACTICAL AFTER GRADING TO REDUCE DUST AND EROSION PROBLEMS. STRAW OR HYDRATED CEMENT SHALL BE COMBINED WITH THE SEEDING ON SLOPES EQUAL TO OR GREATER THAN 4:1 AND PLACED PRIOR TO COMPLETION OF PROJECT IF DEEMED NECESSARY FOR CONTROLLING SOIL EROSION.
8. THE CONTRACTOR SHALL DO THE FOLLOWING IF GRADING AND CLEARING IMPROVEMENTS ARE INCOMPLETE BY OCTOBER 15TH.
 - INSTALL PROXIM PROTECTION ON SLOPES 1:1 OR STEEPER AND SWALES WITH SLOPES 2:1 OR GREATER.
 - PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA.
 - GRADE CUTTER AND PROXIM TO WORK PROVIDE FOR DRAINAGE FROM ENDS OF IMPROVEMENTS.
 - PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN PIPES AS NECESSARY.
 - SEAL OFF ALL SANITARY SEWER CONNECTIONS TO EXISTING SYSTEMS. THE CONTRACTOR SHALL MAINTAIN ALL WINTERIZATION FACILITIES AT ALL TIMES UNTIL THE CITY ACCEPTS THE SUBMISSION IMPROVEMENTS.

GENERAL WATER NOTES:

1. WORK SHALL BE ACCOMPLISHED UNDER THE APPROVAL AND INSPECTION AND TO THE SATISFACTION OF THE EL DORADO IRRIGATION DISTRICT (EDID). CONSTRUCTION SHALL CONFORM TO THESE PLANS AND EDID'S LATEST VERSION OF THE TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS.
2. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH EDID PRIOR TO THE START OF WORK. ADVANCE OF WORKING DAYS WITHIN THEIR JURISDICTION. CONSTRUCTION SHALL BE STARTED NO LATER THAN FIVE DAYS AFTER THE PRE-CONSTRUCTION CONFERENCE. LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL FACILITIES PRIOR TO ANY EXCAVATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND FACILITIES AFFECTED BY THE WORK AND SHALL CONTACT UNDERGROUND SERVICES ALERT (USA) FORTY-FOUR HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES. (PHONE 1-800-842-2444)
4. CONNECTIONS TO EXISTING WATER FACILITY SHALL BE DONE BY A LICENSED CONTRACTOR IN ACCORDANCE WITH EDID TE-IN PROCEDURES PER TECHNICAL SPECIFICATIONS.
5. WHERE EXCAVATIONS FOR ANY FACILITIES CONSTRUCTION EXCEED FIVE FEET IN DEPTH, CONTRACTORS SHALL OBTAIN AN EXCAVATION PERMIT FROM CAL/OSHA IN SACRAMENTO (PHONE 1-916-263-2900) PRIOR TO THE CONSTRUCTION SITE AND COMPLY WITH ALL REQUIREMENTS.
6. THE CONTRACTOR SHALL NOTIFY EDI INSPECTION FORTY-FOUR HOURS PRIOR TO START OR RESTART OF WORK.
7. ONLY ONE PERSONNEL SHALL OPERATE ANY VALVES ON EXISTING WATER SYSTEM.
8. THE TOTAL SITE REQUIRED FIVE FLOW IS 1.825 CUM AT 20 PSIG RESIDUAL.
9. BASED UPON A HYDRAULIC GRADE LINE OF 2.025 FEET AT STATION 1+00.00 AND 1.825 FEET DURING FIVE FLOW AND MAXIMUM DAILY DEMANDS. THE MAXIMUM AND MINIMUM PRESSURES ARE CALCULATED TO BE 1.82 PSIG AND 1.82 PSIG RESIDUAL.
10. PIPELINES SHALL BE DECONTAMINATED, FLOUSED AND HYDROSTATICALLY TESTED IN ACCORDANCE WITH EDID'S TECHNICAL SPECIFICATIONS.
11. SERVICE INSTALLATIONS PROXIMATE WITH CUTS OR FILLS GREATER THAN SIX FEET IN HEIGHT AND SLOPES STEEPER THAN 3:1 SHALL HAVE THE CLEAN OUT SET AT FINISH GRADE NEXT TO THE ROAD IN THE DIRECTION DIRECTED BY EDI. THE SERVICE LINE SHALL THEN BE EXTENDED FIVE FEET BEYOND THE SLOPE CATCH POINT WITH PCDOR 3/8 SIZED TO MATCH THE SERVICE. PLACE STEEL T-POSTS PAINTED BLUE AT THE END OF THIS SERVICE LINE.
12. CURBS SHALL BE SET WITH STAMPED WITH AN "S" BRAND WHERE WATER SERVICES INTERSECT.
13. CONTRACTOR SHALL HAVE A COPY OF EDI'S CONSTRUCTION STANDARDS ON THE JOB.
14. REVISIONS TO THE DRAWINGS MUST BE APPROVED IN WRITING BY EDI.
15. STAKING INFORMATION: MINIMUM SPACING SHALL BE FIFTY FEET (TWENTY-FIVE FEET IN RADIUS) UNLESS OTHERWISE DIRECTED BY EDI. INFORMATION WILL INCLUDE OFFSET, TYPE OF FACILITY AND CUT TO FLOW LINE ON THE FRONT OF THE STAKE AND ELEVATION AND STATION NUMBER ON THE BACK. ANGLE POINTS AND APPURTENANCES TO BE STAKED INCLUDING LINE AND CURB STAKES AS NEEDED. CUT SHEETS REQUIRED WHERE SUBGRADE HAS NOT BEEN MADE.

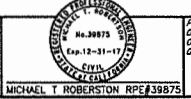
GENERAL SEWER NOTES:

1. ALL WORK WILL BE SUBJECT TO INSPECTION AND APPROVAL BY THE EL DORADO IRRIGATION DISTRICT (EDID). ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND EDID'S LATEST VERSION OF THE TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS.
2. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH EDI PRIOR TO THE START OF WORK. ADVANCE OF WORKING DAYS WITHIN THEIR JURISDICTION. CONSTRUCTION SHALL BE STARTED NO LATER THAN FIVE DAYS AFTER THE PRE-CONSTRUCTION CONFERENCE. LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL FACILITIES PRIOR TO ANY EXCAVATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND FACILITIES AFFECTED BY THE WORK AND SHALL CONTACT UNDERGROUND SERVICES ALERT (USA) FORTY-FOUR HOURS PRIOR TO ANY EXCAVATION WORK FOR DETERMINATION AND LOCATION OF UNDERGROUND UTILITIES. (PHONE 1-800-842-2444)
4. CONNECTIONS TO EXISTING SEWER FACILITIES SHALL BE DONE BY A LICENSED CONTRACTOR IN ACCORDANCE WITH EDI TE-IN PROCEDURES PER TECHNICAL SPECIFICATIONS.
5. WHERE EXCAVATIONS FOR ANY FACILITIES CONSTRUCTION EXCEED FIVE FEET IN DEPTH, CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CAL/OSHA IN SACRAMENTO (PHONE 1-916-263-2900) PRIOR TO THE CONSTRUCTION SITE AND COMPLY WITH ALL REQUIREMENTS.
6. SERVICE INSTALLATIONS IN ROADWAYS WITH CUTS OR FILLS GREATER THAN SIX FEET IN HEIGHT AND SLOPES STEEPER THAN 3:1 SHALL HAVE THE CLEAN OUT SET AT FINISH GRADE NEXT TO THE ROAD IN THE DIRECTION DIRECTED BY THE DISTRICT. THE SERVICE LINE SHALL THEN BE EXTENDED FIVE FEET BEYOND THE SLOPE CATCH POINT WITH PCDOR 3/8 SIZED TO MATCH THE SERVICE. PLACE STEEL T-POSTS PAINTED GREEN AT THE END OF THIS SERVICE LINE.
7. ALL CUTS SHALL BE MARKED "SEWER".
8. ALL CURBS SHALL BE SET WITH STAMPED WITH AN "S" BRAND WHERE SEWER SERVICES INTERSECT.
9. UNLESS OTHERWISE SPECIFIED, ALL STAKING SHALL BE DONE IN ACCORDANCE WITH EDI'S CONSTRUCTION STANDARDS ON THE JOB.
10. ALL REVISIONS TO THESE DRAWINGS MUST BE APPROVED IN WRITING BY EDI.
11. THE CONTRACTOR SHALL NOTIFY EDI INSPECTION FORTY-EIGHT HOURS PRIOR TO START OR RESTART OF WORK.
12. STAKING INFORMATION: MINIMUM SPACING SHALL BE FIFTY FEET (TWENTY-FIVE FEET IN RADIUS) UNLESS OTHERWISE DIRECTED BY EDI. INFORMATION WILL INCLUDE OFFSET, TYPE OF FACILITY AND CUT TO FLOW LINE ON THE FRONT OF THE STAKE AND ELEVATION AND STATION NUMBER ON THE BACK. ANGLE POINTS AND APPURTENANCES TO BE STAKED INCLUDING LINE AND CURB STAKES AS NEEDED. CUT SHEETS REQUIRED WHERE SUBGRADE HAS NOT BEEN MADE.
13. ON REPLACEMENT PROJECTS, THE EXISTING FACILITY MUST REMAIN IN SERVICE UNTIL THE NEW UTILITY IS ACCEPTED AND PUT INTO SERVICE.

BAKER-WILLIAMS CIVIL ENGINEERING NOTES:

1. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS OR OTHER SITUATIONS NOT ADDRESSED ON THESE PLANS WITH THE APPROPRIATE INSPECTOR AND THE ENGINEER PRIOR TO PROCEEDING.
2. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE BY LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF HIS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
3. THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF THEIR UNDERGROUND UTILITIES WHERE SUCH FACILITIES MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE IMPROVEMENT PLANS.
4. THE CONTRACTOR SHALL EXPOSE THE DISTS OF EXISTING SEWER AND DRAIN LINES AND VERIFY THEIR LOCATION AND ELEVATION PRIOR TO PLACEMENT OF PIPE. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF WORK.
5. BAKER-WILLIAMS ENGINEERING GROUP SHALL NOT BE RESPONSIBLE FOR GRADING AND DIRT QUANTITIES UNLESS THE CONSTRUCTION STAKING IS PERFORMED BY BAKER-WILLIAMS ENGINEERING GROUP.
6. THE CONTRACTOR SHALL NOTIFY BAKER-WILLIAMS ENGINEERING GROUP (BWE) WORKING DAYS IN ADVANCE OF DOING ANY DESIGN, GRADING OR EARTHWORK OF ANY KIND. IN THE EVENT THAT MODIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ACQUIRING ANY SURVEY CONTROL POINTS DESTROYED BY HIS OPERATION.
7. EXISTING A.C. SURFACE SHALL BE CUT IN A NEAR STRAIGHT LINE PARALLEL WITH OR PERPENDICULAR TO STREET CENTERLINE AS APPLICABLE AND THE EXPOSED EDGE SHALL BE FACED WITH EMULSION FLOW TO PAVING. SHOULDERING MUST BE MADE A MINIMUM OF 1-FOOT FROM THE EXISTING E.P. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED AND REPAVED PRIOR TO PAVING.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXPOSE AND VERIFY THE ELEVATION OF ALL EXISTING UTILITIES THAT CROSS PROPOSED FACILITIES. CONFLICTS EXIST AND TO POSSIBLY ADJUST PROPOSED FACILITIES. DURING CONSTRUCTION, NEW AND EXISTING PIPES ON UTILITIES LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED WITH PLATE STEEL OR MAINTAIN ADEQUATE COVER TO PREVENT ANY DAMAGE FROM HEAVY EQUIPMENT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO PIPES OF UTILITIES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL NOTIFY THE SOILS ENGINEER KRAJAN & ASSOCIATES, INC. 48 HOURS IN ADVANCE OF DOING ANY GRADING.
10. BAKER-WILLIAMS ENGINEERING GROUP (BWE) HAS EXERCISED A REASONABLE AND ACCEPTABLE STANDARD OF CARE IN THE PREPARATION OF THESE PLANS. HOWEVER, THE DESIGN PROCESS INCLUDES ACTIVITIES OCCURRING AFTER PLAN SIGNATURE. THESE ACTIVITIES INCLUDE CALCULATIONS, PLAN INTERPRETATIONS AND VERIFICATIONS DURING CONSTRUCTION. SHOULD PERSONS OTHER THAN (BWE) PERFORM THE CONSTRUCTION AS SHOWN ON THESE PLANS, ANY NECESSARY (BWE) FROM ANY DAMAGES RESULTING FROM OMISSION OR ERROR CONTAINED IN THE PLANS WHICH WOULD REASONABLY HAVE BEEN DISCOVERED AND CORRECTED BY (BWE).
11. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY/COUNTY, OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY/COUNTY, OWNER OR ENGINEER.

NO.	DESCRIPTION	ENG. QUANTITY APPROX.	CONTRACTOR QUANTITY	BENCHMARK	BM-26475 elev. 1404.00
(SEE SHEET NO.1)					

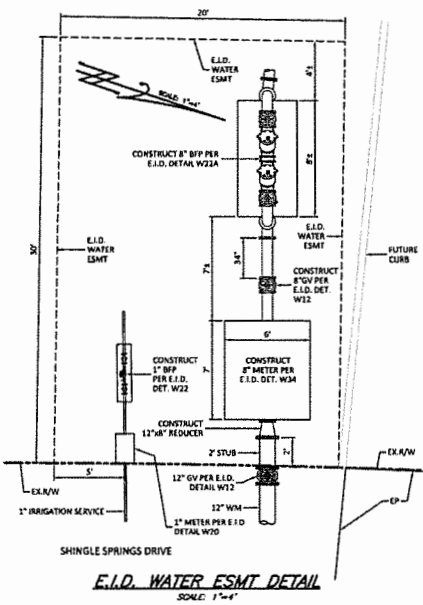
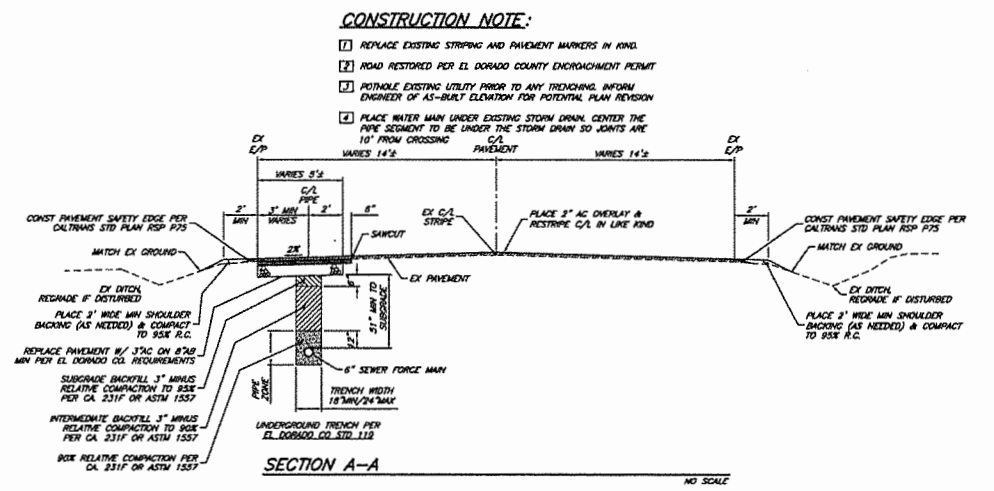
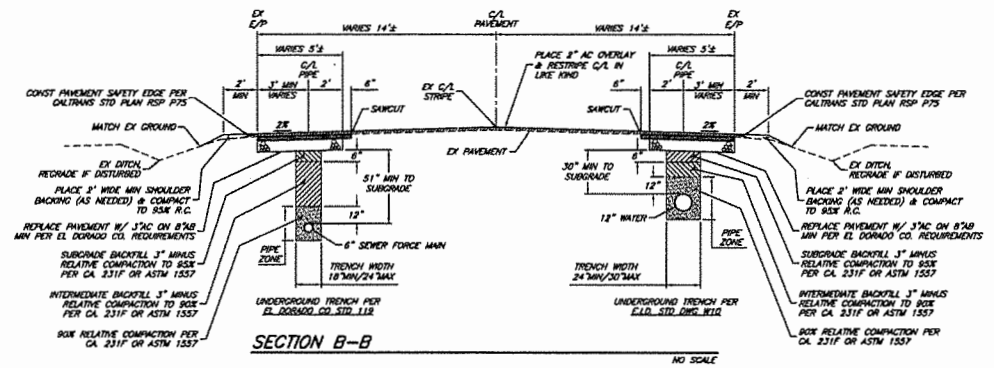
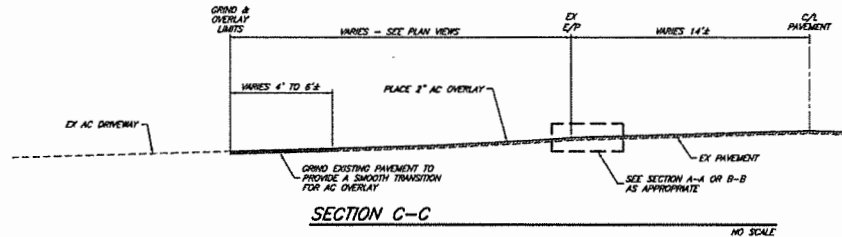


PLANT DATE: 06-30-15 09-18-15 11-13-15	SCALE: AS SHOWN	DRAWN BY: S.F.L.
DATE: 06/2015	CHECKED BY: M.T.R.	FIELD BOOK: 710

BW BAKER-WILLIAMS ENGINEERING GROUP
 Engineering / Surveying / Land Planning / Environment Processing / GPS Services
 8020 Rutland Drive, Suite 19 - Carmichael, CA. 95608
 (916) 331-4336 - fax (916) 331-4430 - office@twengineering.com

GENERAL NOTES & DETAILS
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

SHEET **2** OF **11**
 SHEETS
 14-11-15



CONSTRUCTION NOTE:

- 1] REPLACE EXISTING STRIPING AND PAVEMENT MARKERS IN KIND
- 2] ROAD RESTORED PER EL DORADO COUNTY ENHANCEMENT PERMIT
- 3] POTENTIAL EXISTING UTILITY PRIOR TO ANY TRENCHING. INFORM ENGINEER OF AS-BUILT ELEVATION FOR POTENTIAL PLAN REVISION
- 4] PLACE WATER MAIN UNDER EXISTING STORM DRAIN. CENTER THE PIPE SEGMENT TO BE UNDER THE STORM DRAIN SO JOINTS ARE 10' FROM CROSSING

NO.	DESCRIPTION	DATE	BY	CHECKED BY

benchmark BM-DMS472 elev. 1484.00
 (SEE SHEET NO. 1)
 MICHAEL T ROBERTSON RPE#39875

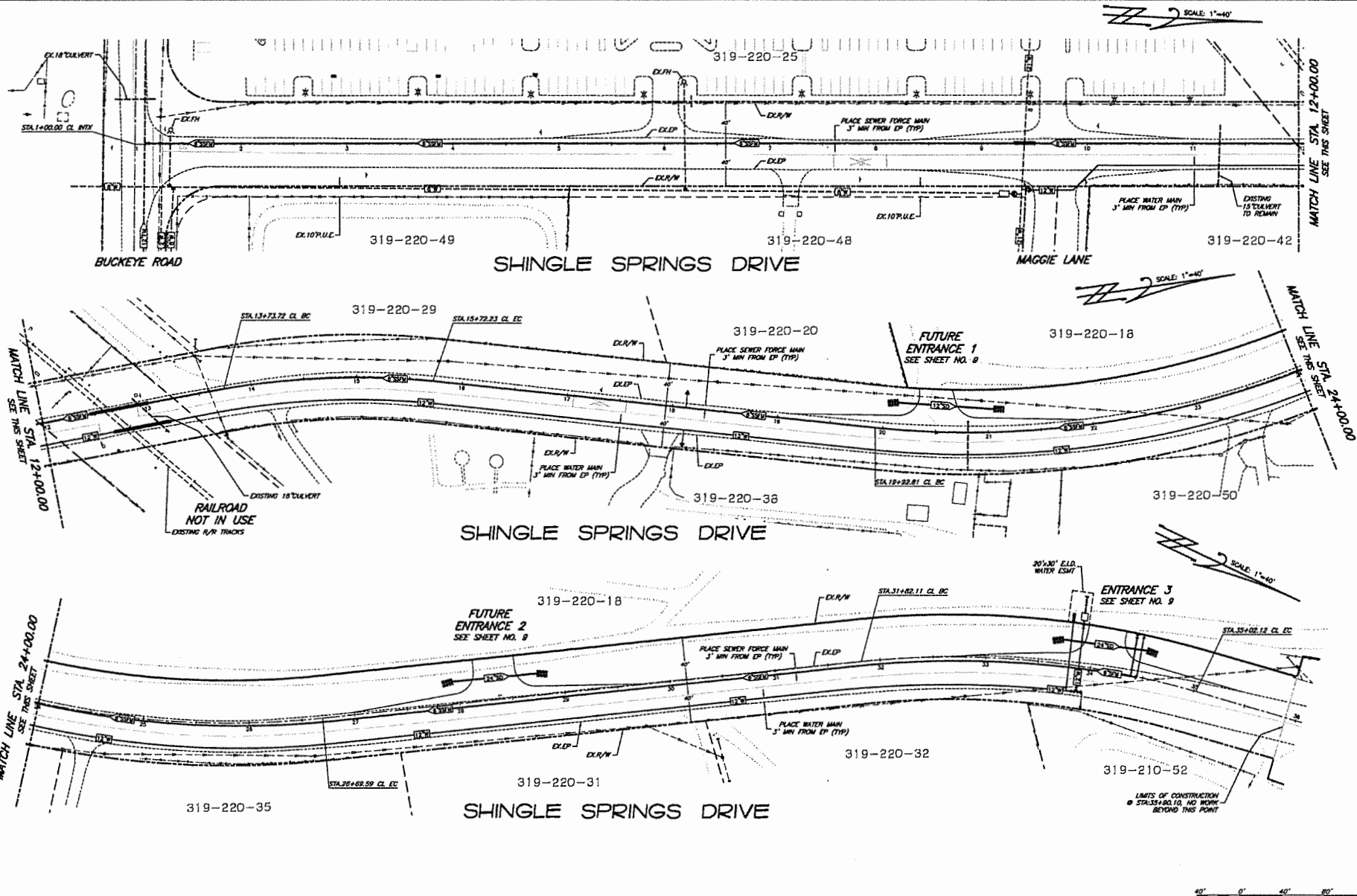
SCALE
 north: N/A
 06/2015
 710
 date field book

IBW BAKER-WILLIAMS ENGINEERING GROUP
 Engineering / Surveying / Land Planning / Environment Processing / GPS Services
 8020 Rusland Drive, Suite 19 - Carmichael, CA. 95608
 (916) 331-4335 - fax (916) 331-4430 - office@bweengineers.com

GENERAL DETAILS
 SHINGLE SPRINGS VILLAGE
 SEWER MAIN & WATER MAIN EXTENSION
 EL DORADO COUNTY CALIFORNIA

SHEET 3 OF 11
 SHEETS 14-11-53
 DATE 06/2015

1411002-007-GEN-075-WDS



NO.	DESCRIPTION	DATE	BY	APPROVED	REVISION

benchmark BM-DH8472 elev. 1464.00
(SEE SHEET NO. 1)

PLANT DATE: 06-18-15
07-13-16

SCALE: 1"=40'

designed by: S.F.L.
checked by: M.T.R.
verb: N/A

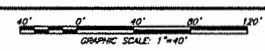
06/2015 710
date field book

IBW BAKER-WILLIAMS ENGINEERING GROUP

Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services
8020 Rutland Drive, Suite 19 Carmichael, CA. 95608
(916) 331-4336 - fax (916) 331-4420 - office@bwengineering.com

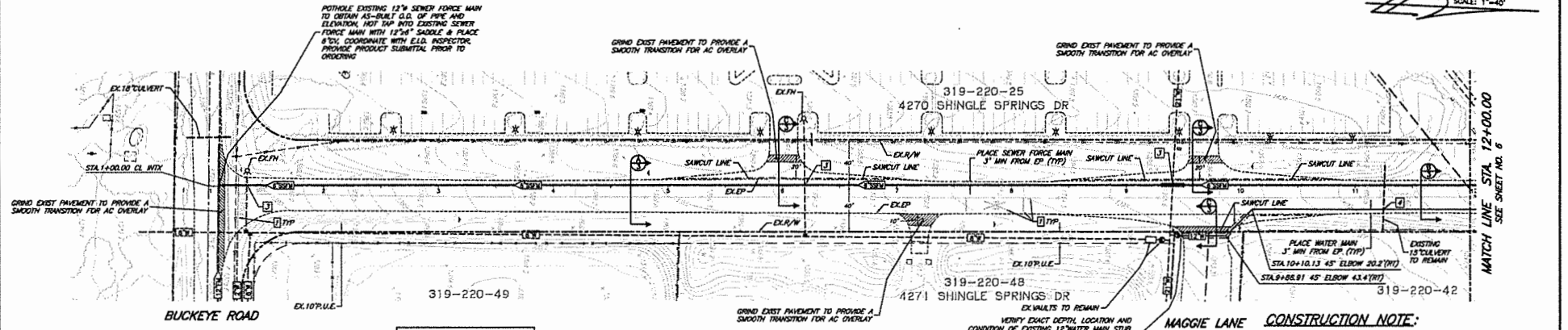
UTILITY PLAN
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

SHEET 4 OF 11
14-11-53
1411032-107071-PLAN



SHINGLE SPRINGS DRIVE

SCALE: 1"=40'



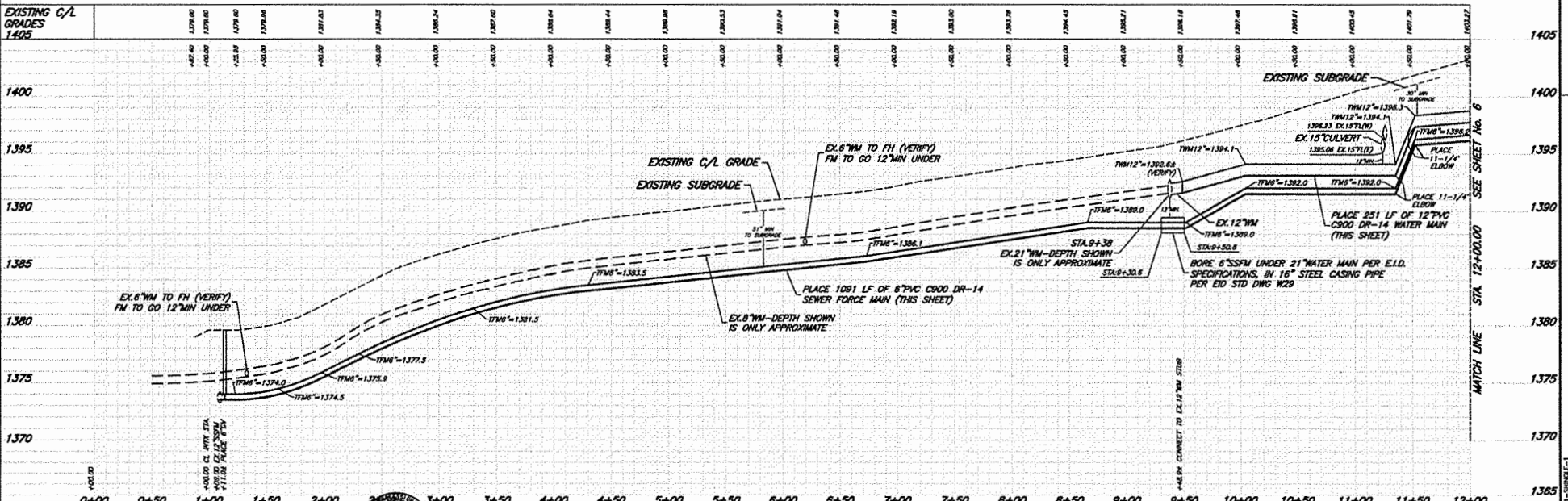
SEWER MATERIAL LIST		
ITEM	MODEL / TYPE / SIZE	QUANTITY
PIPE	6\"/>	

POTABLE & RECLAIMED WATER LINES WITH A RADIUS:

ALL CURVED POTABLE AND RECLAIMED WATER PIPE SEGMENTS WITH TAPS SHALL BE INSTALLED CONSISTENT WITH CID AND PIPE MANUFACTURER'S STANDARDS AND UNREEL SPECIFICATIONS. CURVED PIPES SHALL BE ACHIEVED USING LONGITUDINAL BENDING WITHOUT ANY DEFLECTION IN THE JOINT. CONTRACTOR TO VERIFY PRIOR TO INSTALLATION THAT THE PIPE MANUFACTURER'S INSTALLATION SPECIFICATIONS ALLOW LONGITUDINAL BENT PIPE. IF NOT, HIGH DEFLECTION COUPLINGS WILL BE REQUIRED.

WATER MATERIAL LIST		
ITEM	MODEL / TYPE / SIZE	QUANTITY
PIPE	12\"/>	

- CONSTRUCTION NOTE:**
- REPLACE EXISTING STRIPING AND PAVEMENT MARKERS IN RHD.
 - ROAD RESTORED PER EL DORADO COUNTY ENFORCEMENT PLAN.
 - POTHOLE EXISTING UTILITY PRIOR TO ANY TRENCHING. INFORM ENGINEER OF AS-BUILT ELEVATION FOR POTENTIAL PLAN REVISION.
 - PLACE WATER MAIN UNDER EXISTING STORM DRAIN. CENTER THE PIPE SEGMENT TO BE UNDER THE STORM DRAIN SO JOINTS ARE 10' FROM CROSSING.



NO.	DESCRIPTION	DATE	APPROVED BY

PROJECT DATE: 06-23-15
 DESIGNED BY: M.T.R.
 CHECKED BY: S.F.L.
 DATE: 06/2015
 FIELD BOOK: 710

IDW BAKER-WILLIAMS ENGINEERING GROUP
 Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services
 8020 Rutland Drive, Suite 19 - Carmichael, CA 95608
 (916) 331-4338 - fax (916) 331-4430 - office@bwiengineers.com

SHINGLE SPRINGS DRIVE
 SHINGLE SPRINGS VILLAGE
 SEWER MAIN & WATER MAIN EXTENSION
 EL DORADO COUNTY CALIFORNIA

SHEET 5 OF 11
 14-11-53

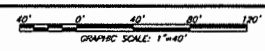
POTABLE & RECLAIMED WATER LINES WITH A RADIUS:
 ALL CURVED POTABLE AND RECLAIMED WATER PIPE SEGMENTS WITH TAPS SHALL BE INSTALLED CONSISTENT WITH E.D. AND PIPE MANUFACTURER'S STANDARDS AND UNBELL SPECIFICATIONS. CURVED PIPES SHALL BE APPROVED USING LONGITUDINAL BENDING WITHOUT ANY DEFLECTION IN THE JOINT. CONTRACTOR TO VERIFY PRIOR TO INSTALLATION THAT THE PIPE MANUFACTURER'S INSTALLATION SPECIFICATIONS ALLOW TAPPING ON LONGITUDINAL BENT PIPE. IF NOT, HIGH DEFLECTION COUPLINGS WILL BE REQUIRED.

SSPM CURVE DATA
 FROM STA 12+57.05
 TO STA 15+48.48
 $\Delta = 18^{\circ}49'30''$
 $R = 703.50'$
 $L = 223.29'$
 $CH = S5^{\circ}43'33''W$
 $CH L = 222.48'$

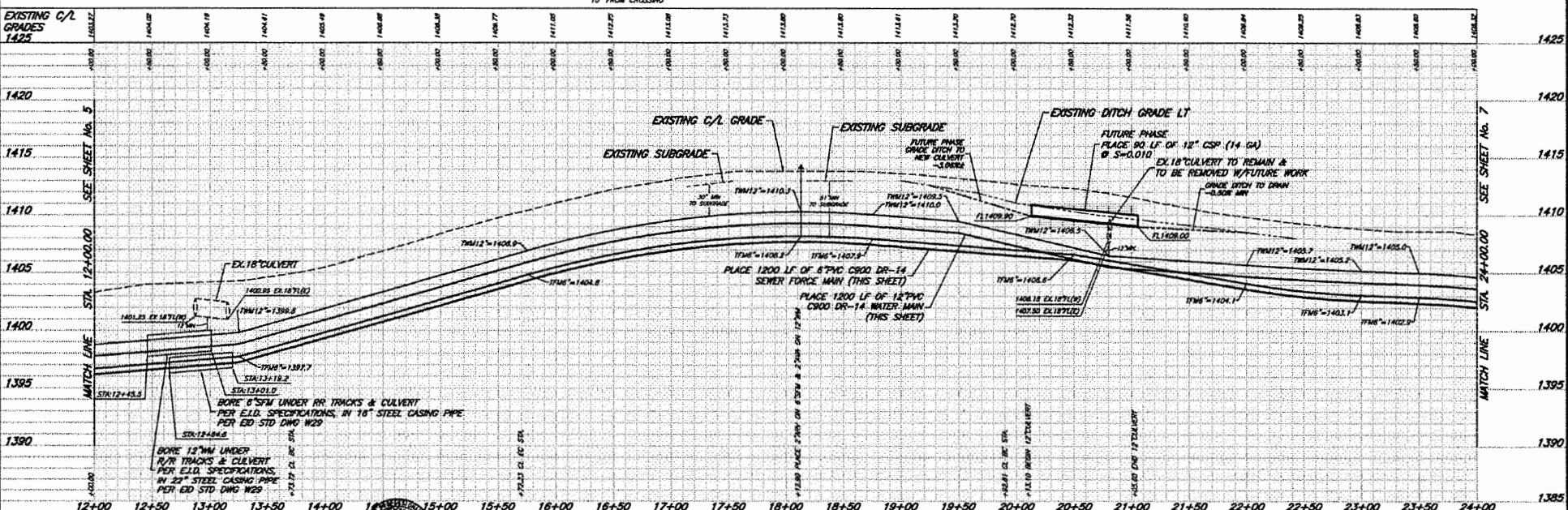
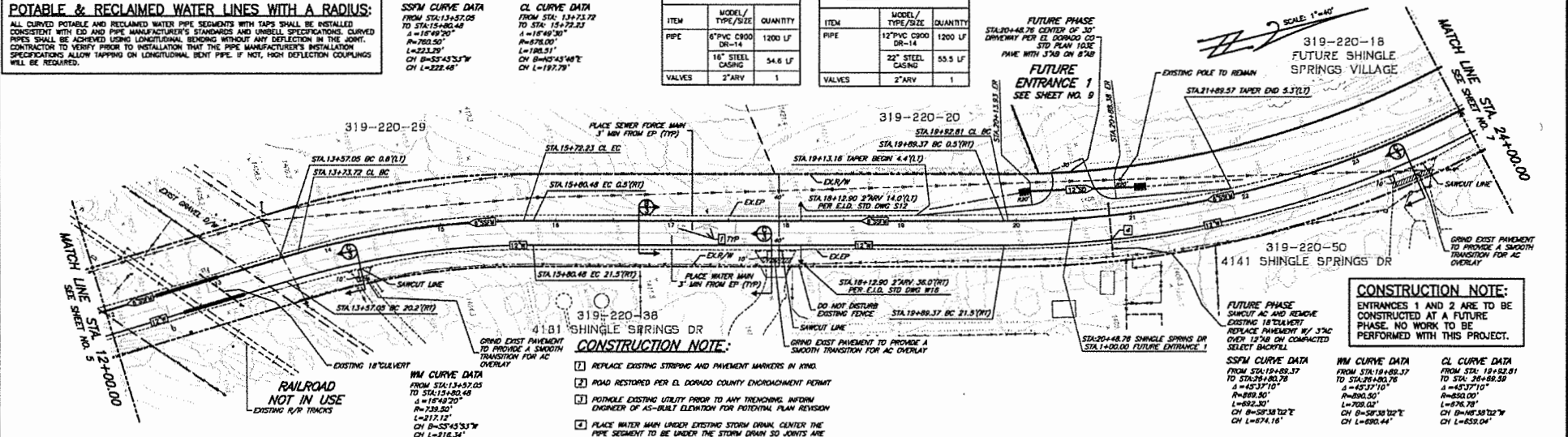
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 TO STA 15+48.48
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 $R = 703.50'$
 $L = 223.29'$
 $CH = S5^{\circ}43'33''W$
 $CH L = 222.48'$

SEWER MATERIAL LIST		
ITEM	MODEL/TYPE/SIZE	QUANTITY
PIPE	6" PVC C900 DR-14	1200 LF
	18" STEEL CASING	54.6 LF
VALVES	2" ARV	1

WATER MATERIAL LIST		
ITEM	MODEL/TYPE/SIZE	QUANTITY
PIPE	12" PVC C900 DR-14	1200 LF
	22" STEEL CASING	55.5 LF
VALVES	2" ARV	1



SHINGLE SPRINGS DRIVE

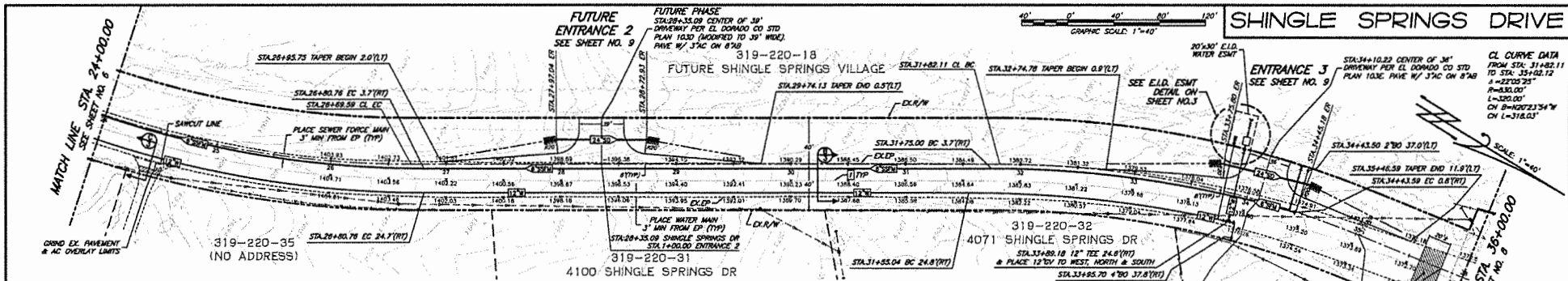


NO.	DESCRIPTION	DATE	SCALE	DESIGNED BY	CHECKED BY
		06/2015	1"=40'	S.F.L.	S.F.L.

MICHAEL T ROBERTSON RPE139875
 BAKER-WILLIAMS ENGINEERING GROUP
 Engineering / Surveying / Land Planning / Eminent Domain Processing / GPS Services
 8020 Rutland Drive, Suite 19 - Carmichael, CA 95608
 (916) 331-4339 - fax (916) 331-4430 - office@bwiengr.com

SHINGLE SPRINGS DRIVE
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

SHEET 6 OF 11
 14-11-53



CL CURVE DATA
FROM STA. 19+82.81
TO STA. 28+05.59
A=43°37'10"
R=850.00'
L=878.76'
CH B=68°38'12"E
ON L=859.04'

WM CURVE DATA
FROM STA. 19+82.81
TO STA. 28+05.59
A=45°37'10"
R=850.00'
L=798.00'
CH B=68°38'12"E
ON L=859.04'

SSFM CURVE DATA
FROM STA. 19+82.81
TO STA. 28+05.59
A=45°37'10"
R=850.00'
L=798.00'
CH B=68°38'12"E
ON L=859.04'

CONSTRUCTION NOTE:
ENTRANCES 1 AND 2 ARE TO BE CONSTRUCTED AT A FUTURE PHASE. NO WORK TO BE PERFORMED WITH THIS PROJECT.

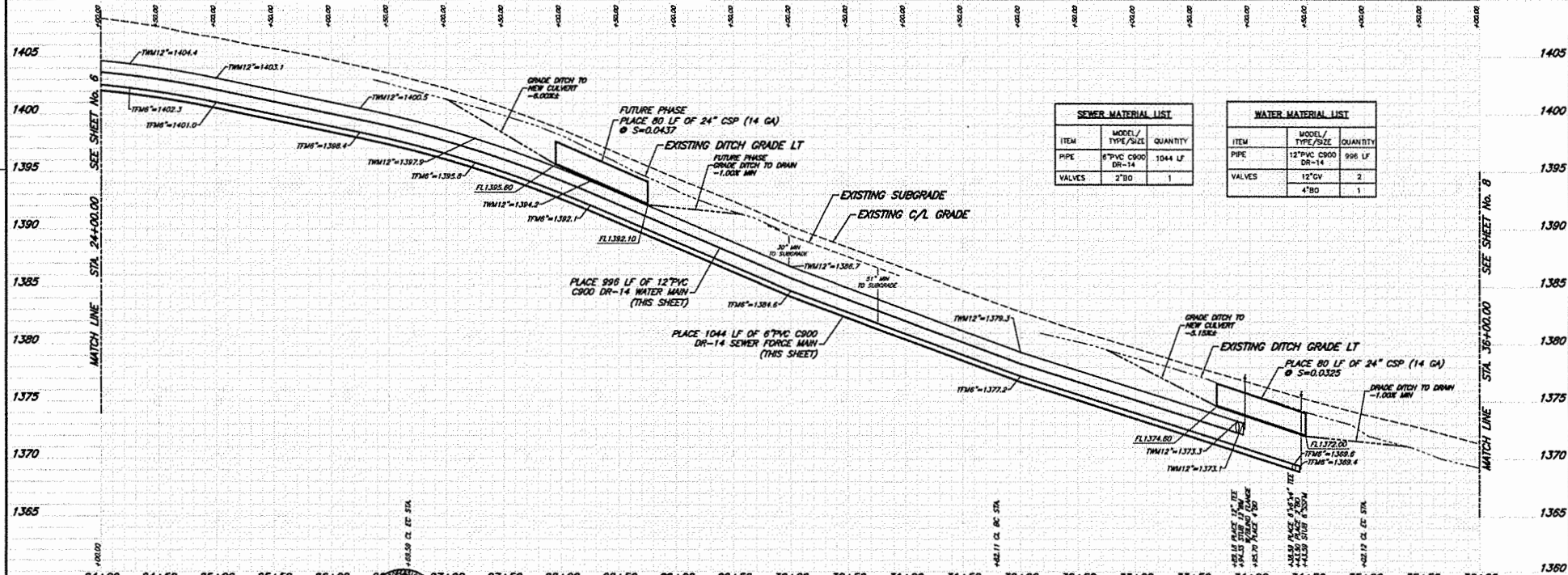
CONSTRUCTION NOTE:
1. REPLACE EXISTING STRIPING AND PAVEMENT MARKERS IN KING.
2. ROAD RESTORED PER EL DORADO COUNTY ENCROACHMENT PERMIT

POTABLE & RECLAIMED WATER LINES WITH A RADIUS:
ALL CURVED POTABLE AND RECLAIMED WATER PIPE SEGMENTS WITH TAPS SHALL BE INSTALLED CONSISTENT WITH I.D. AND PIPE MANUFACTURER'S STANDARDS AND UNLESS SPECIFICATIONS CURVED PIPES SHALL BE ACHIEVED USING LONGITUDINAL BENDING WITHOUT ANY DEFLECTION IN THE JOINT. CONTRACTOR TO VERIFY PRIOR TO INSTALLATION THAT THE PIPE MANUFACTURER'S INSTALLATION SPECIFICATIONS ALLOW TAPPING ON LONGITUDINAL BENT PIPE. IF NOT, HIGH DEFLECTION COUPLINGS WILL BE REQUIRED.

SSFM CURVE DATA
FROM STA. 31+75.00
TO STA. 34+33.50
A=118°18'18"
R=940.50'
L=1872.84'
CH B=52°17'28"E
ON L=286.74'

WM CURVE DATA
FROM STA. 31+82.11
TO STA. 35+02.12
A=22°02'21"
R=30.00'
L=300.00'
CH B=70°23'34"W
ON L=318.03'

EXISTING C/L GRADES	1410	1409.80	1409.60	1409.40	1409.20	1409.00	1408.80	1408.60	1408.40	1408.20	1408.00	1407.80	1407.60	1407.40	1407.20	1407.00	1406.80	1406.60	1406.40	1406.20	1406.00	1405.80	1405.60	1405.40	1405.20	1405.00	1404.80	1404.60	1404.40	1404.20	1404.00	1403.80	1403.60	1403.40	1403.20	1403.00	1402.80	1402.60	1402.40	1402.20	1402.00	1401.80	1401.60	1401.40	1401.20	1401.00	1400.80	1400.60	1400.40	1400.20	1400.00
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SEWER MATERIAL LIST		
ITEM	MODEL / TYPE / SIZE	QUANTITY
PIPE	6" PVC C900 DR-14	1044 LF
VALVES	2" BO	1

WATER MATERIAL LIST		
ITEM	MODEL / TYPE / SIZE	QUANTITY
PIPE	12" PVC C900 DR-14	996 LF
VALVES	12" BO	2
	4" BO	1

NO.	DESCRIPTION	DATE	BY	CHECKED BY
1	(SEE SHEET NO. 1)			

PROJ. NO. 06-20-15
EXP. 12-31-17
MICHAEL T. ROBERTSON RPE#38875

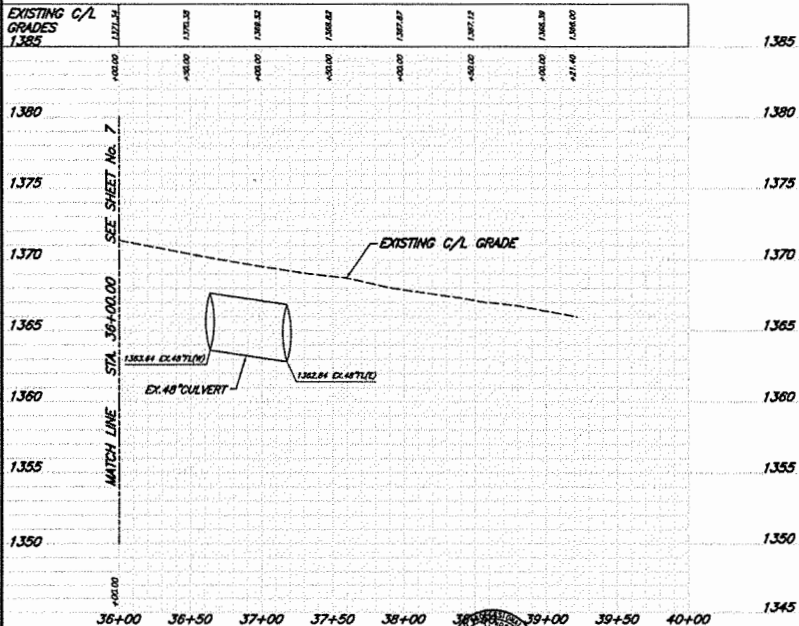
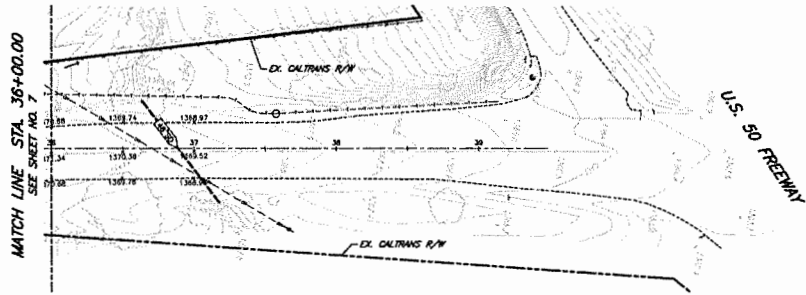
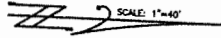
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vertical: 1"=4'
DATE: 06/2015
SHEET: 710

IBW BAKER-WILLIAMS ENGINEERING GROUP
Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services
8020 Rufford Drive, Suite 19 Carmichael, CA, 95608
(916) 331-4336 • fax (916) 331-4430 • office@bwengr.com

SHINGLE SPRINGS DRIVE
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

1411002-07-PROJ-SHINGLE-3

SHINGLE SPRINGS DRIVE



NO.	DESCRIPTION	DATE	BY	CHECKED BY

benchmark BM-DH6478 elev. 1484.00

(SEE SHEET NO. 1)

MICHAEL T ROBERTSON RPE#39875

DATE: 06-30-15	SCALE: 1"=40'	DRAWN BY: S.F.L.
DATE: 07-16-15	SCALE: 1"=40'	DESIGNED BY: M.T.R.
DATE: 07-13-16	SCALE: 1"=40'	CHECKED BY: S.F.L.
DATE: 06/2015	SCALE: 1"=40'	DATE: 7/10
DATE:	SCALE: 1"=40'	DATE:

IBW BAKER-WILLIAMS ENGINEERING GROUP

Engineering / Surveying / Land Planning / Enticement Processing / GPS Services

8020 Rutland Drive, Suite 18 - Carmichael, CA 95608

(916) 331-4336 - fax (916) 331-4430 - office@bwengineering.com

SHINGLE SPRINGS DRIVE
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

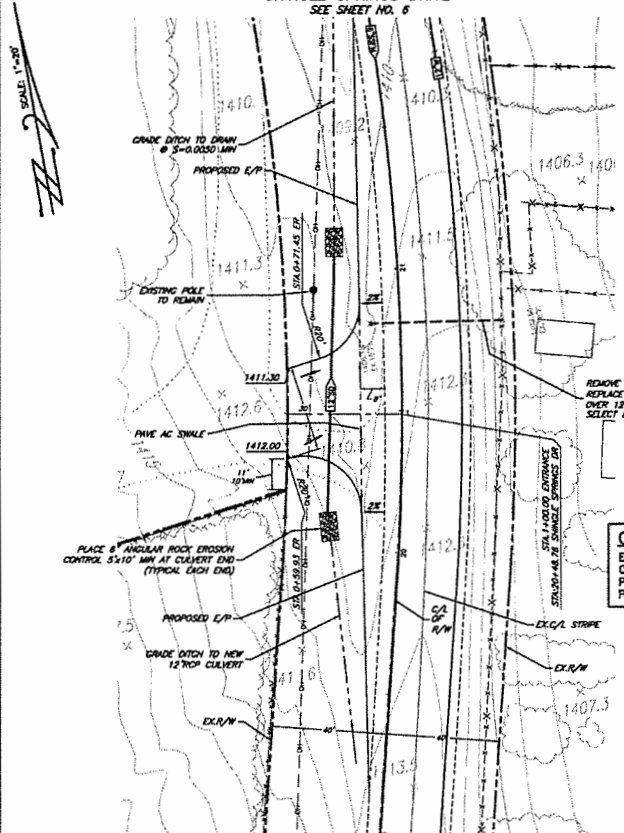
SHEET	8	OF	11
SHEETS	14-11-53		
DATE			

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111032-07-EP04-SINGLE-4

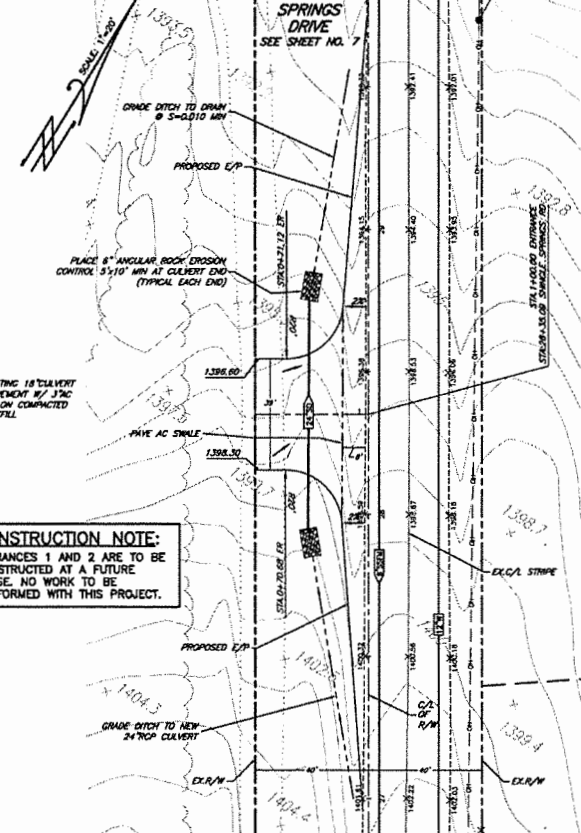
FUTURE ENTRANCE 1

SHINGLE SPRINGS DRIVE
SEE SHEET NO. 6



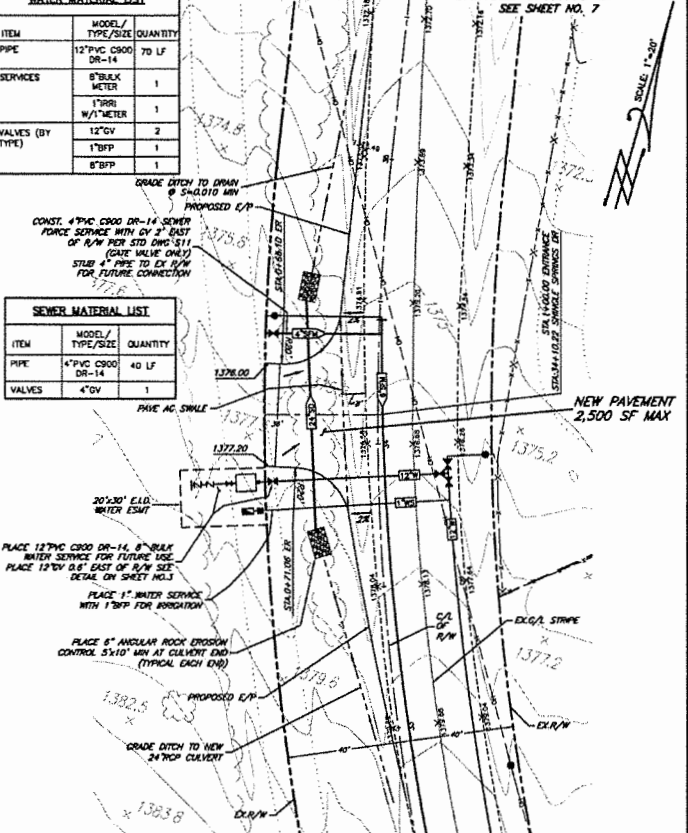
FUTURE ENTRANCE 2

SHINGLE SPRINGS DRIVE
SEE SHEET NO. 7



ENTRANCE 3

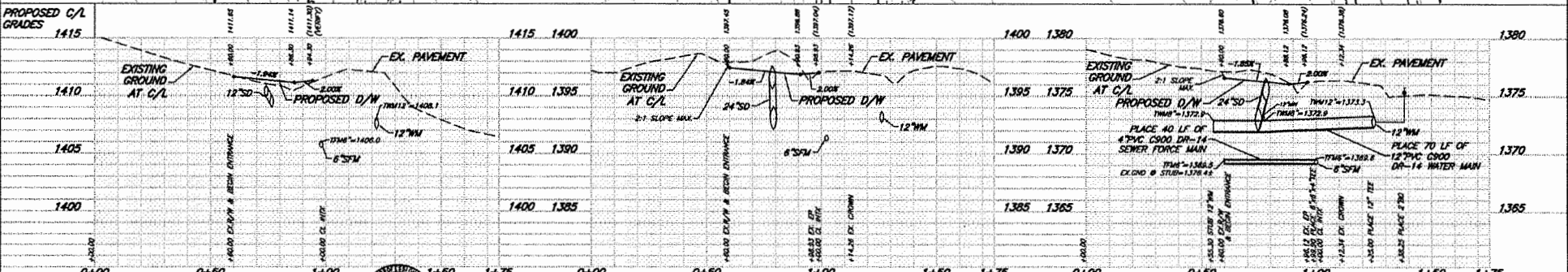
SHINGLE SPRINGS DRIVE
SEE SHEET NO. 7



ITEM	MODEL / TYPE / SIZE	QUANTITY
PIPE	12" PVC C900 DR-14	70 LF
SERVICES	8" BULK METER	1
	1" BRN W/1" METER	1
VALVES (BY TYPE)	12" G.V.	2
	1" BFP	1
	8" BFP	1

ITEM	MODEL / TYPE / SIZE	QUANTITY
PIPE	4" PVC C900 DR-14	40 LF
VALVES	4" G.V.	1

CONSTRUCTION NOTE:
ENTRANCES 1 AND 2 ARE TO BE CONSTRUCTED AT A FUTURE PHASE. NO WORK TO BE PERFORMED WITH THIS PROJECT.

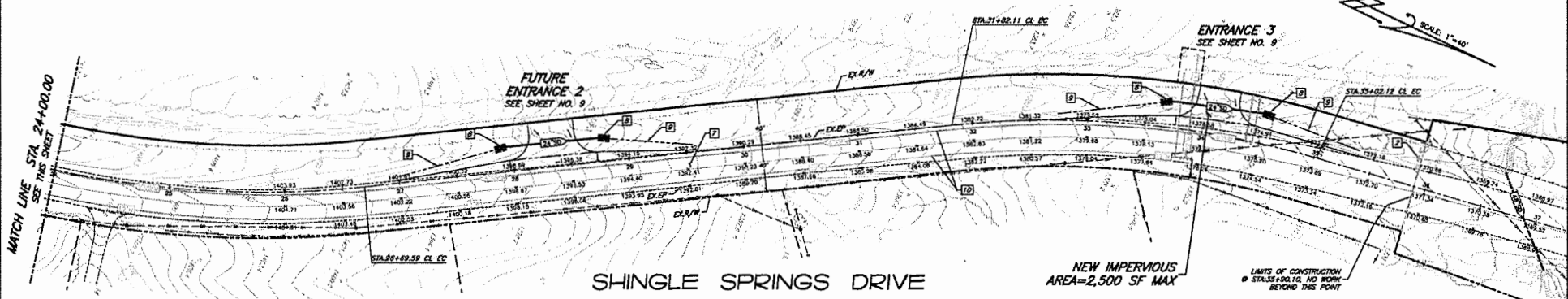
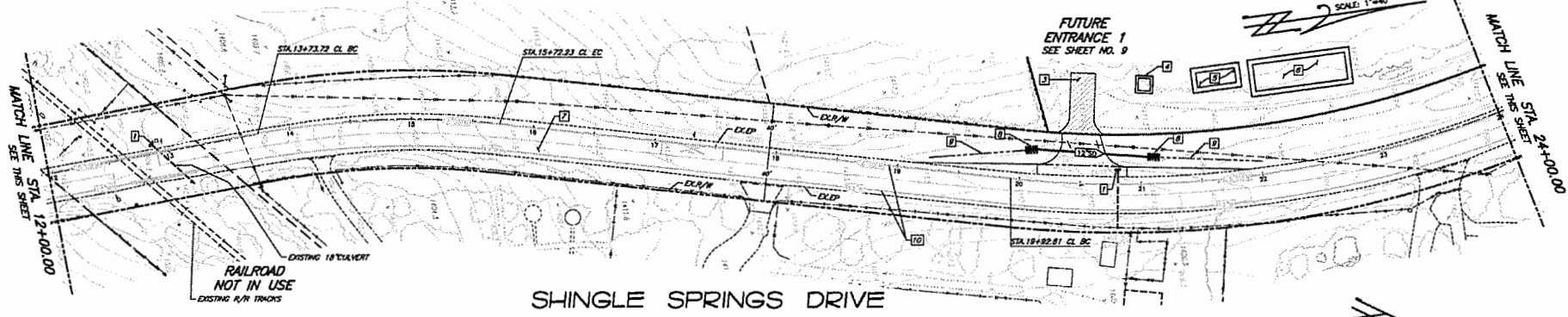
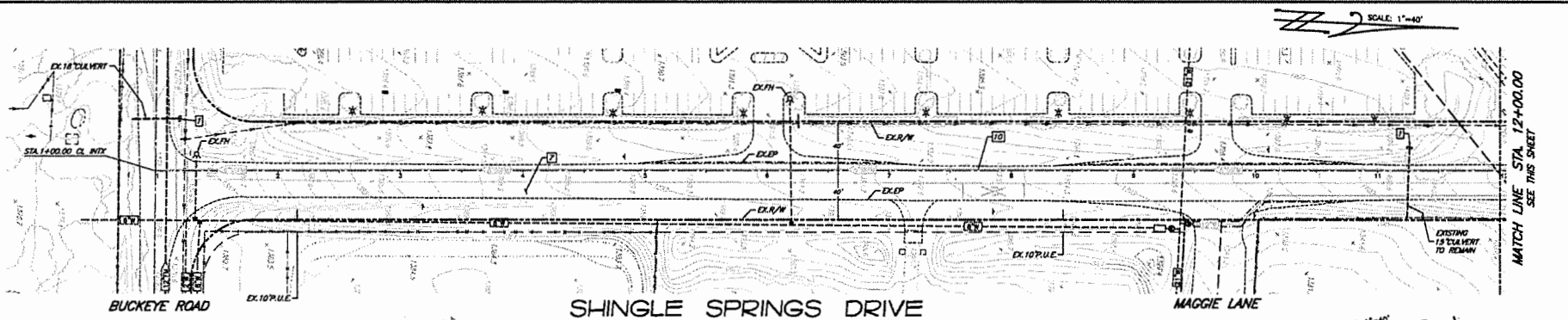


NO.	DESCRIPTION	DATE	BY	REVISION	benchmark BM-DH8478 elev. 1464.00
(SEE SHEET NO. 1)					
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		MICHAEL T. ROGERSTON RPE#39875			

IDW BAKER-WILLIAMS ENGINEERING GROUP
 Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services
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**ENTRANCE 1 & ENTRANCE 2 & ENTRANCE 3
 SHINGLE SPRINGS VILLAGE
 SEWER MAIN & WATER MAIN EXTENSION
 EL DORADO COUNTY CALIFORNIA**

SHEET 9 OF 11
 SHEETS 14-11-53
 1411053-001-PP-PROG-ENTRANCES



EROSION CONTROL DATA:

- 1) PLACE GRAVEL BAG SEDIMENT CONTROL BARRIER AT PIPE INLET
- 2) PLACE FIBER ROLL ALONG BOUNDARY OF DISTURBED AREAS PER DETAIL ON SHEET 11. DURING WET SEASON A 30' BUFFER ZONE OF STRAW MULCH AND TACKIFIER SHALL BE PLACED IN CONJUNCTION WITH FIBER ROLLS
- 3) PLACE STABILIZED CONST. ACCESS PER DETAIL ON SHEET 11 TO REDUCE TIRE TRACKING
- 4) PLACE CONCRETE WASHOUT AREA
- 5) CONSTRUCT STOCKPILE AREA WITH GRAVEL BAG PERIMETER. ALL MATERIALS SHALL BE PROPERLY STORED/COVERED SO AS NOT TO POLLUTE RUNOFF AND TO DECREASE AIRBORNE DUST
- 6) CONSTRUCT STAGING AREA WITH FIBER ROLL OR GRAVEL BAG PERIMETER. PLACE DUMPSTER W/ LIDS AND PORTABLE TOILET
- 7) SWEEP & CLEAN ANY SIDE TRACKING ON EXISTING PAVEMENT ONLY AND/OR AS NEEDED
- 8) PLACE 6" MIN SIDE RIPPAP 12" DEEP FOR INLET/OUTLET
- 9) STABILIZE SLOPES W/ HYDROSEED MIX PER SEED MIX TABLE ON SHEET 11 AND AN APPLICATION OF STRAW MULCH ON OTHER TEMPORARY EROSION CONTROL
- 10) PRIOR TO STORM EVENTS, COVER TRENCHES W/ STEEL TRENCH PLATE OR OTHER ACCEPTABLE MEANS FOR DRAINAGE CONTROL

DISTURBED AREA = 0.8 AC

NO.	DESCRIPTION	DATE	COUNTY APPROVAL	APPROVED BY	APPROVAL DATE	REVISION

benchmark BM-DH8479 elev. 1494.00
(SEE SHEET NO. 1)

MICHAEL T. ROBERTSON RPE#39875

PROJECT DATE: 06-30-15 08-18-15 07-13-16 04-07-18	SCALE: Sheet: 1"=40' Sheet: N/A	DESIGNED BY: S.F.L. CHECKED BY: M.T.R. DATE: 06/2015	710 FIELD BOOK
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EROSION & SEDIMENT CONTROL PLAN
SHINGLE SPRINGS VILLAGE
SEWER MAIN & WATER MAIN EXTENSION
EL DORADO COUNTY CALIFORNIA

SHEET 10 of 11
DATE 14-11-53
JOB NUMBER 1411033-007-SHINGLE-CC-PLAN

