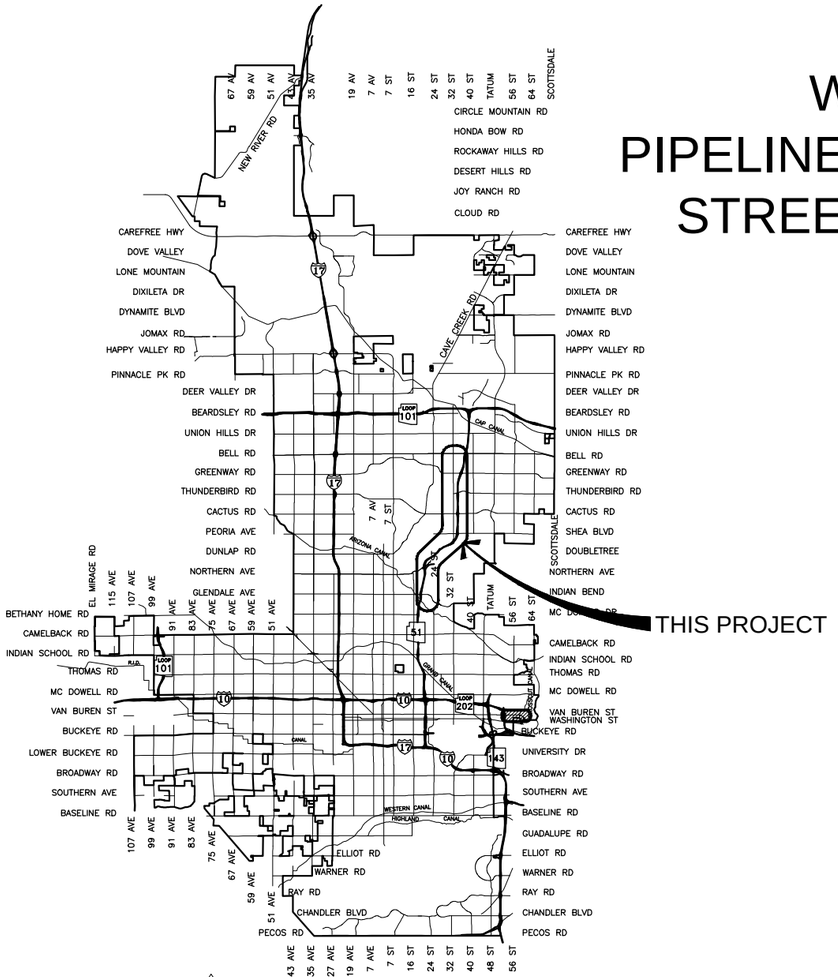
30% PRELIMINARY NOT FOR CONSTRUCTION	F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
	9	ARIZ.	WS85100047-2	1	117	

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

DES	MVL	DR:	JG	CK:	SM	DATE:	04/18

CITY OF PHOENIX
WATER SERVICES DEPARTMENT
PIPELINE ALIGNMENT - 24TH STREET WTP 24TH STREET WTP TO 32ND ST AND BELL ROAD
WS85100047-2



VICINITY MAP

NTS

City of Phoenix
N

2018

MAYOR

GREG STANTON

CITY MANAGER

CITY MANAGER – ED ZUERCHER

CITY COUNCIL

DISTRICT NO 1.	THELDA WILLIAMS
DISTRICT NO 2.	JIM WARING
DISTRICT NO 3.	DEBRA STARK
DISTRICT NO 4.	LAURA PASTOR
DISTRICT NO 5.	DANIEL VALENZUELA
DISTRICT NO 6.	SAL DICICCIO
DISTRICT NO 7.	MICHAEL NOWAKOWSKI
DISTRICT NO 8.	KATE GALLEGO

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	LEGEND AND NOTES SHEET
3	NOTES AND ABBREVIATIONS SHEET
4 – 5	KEY MAP
6 – 117	WATER LINE PLAN AND PROFILE SHEETS

PROJECT BENCHMARKS

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 7TH STREET & THUNDERBIRD ROAD
ELEV 1368.375 (CITY OF PHOENIX DATUM)

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 32ND STREET & PARADISE LANE
ELEV 1440.62 (CITY OF PHOENIX DATUM)

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 28TH STREET & CACTUS ROAD
ELEV 1423.63 (CITY OF PHOENIX DATUM)

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 20TH STREET (SOUTH) & GLENDALE AVENUE
ELEV 1278.82 (CITY OF PHOENIX DATUM)

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.

PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

APPROVED FOR THE CITY OF PHOENIX:

COUNTY HEALTH DELEGATE PLANNING AND DEVELOPMENT DEPARTMENT	DATE
DEPUTY STREET TRANSPORTATION DIRECTOR	DATE
WATER SERVICES DEPARTMENT	DATE
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT	DATE

Q.S. 22-31, 22-32, 23-31, 23-32, 24-32, 25-32, 26-32, 26-33, 27-33, 27-34, 28-34, 28-35, 29-34, 29-35, 30-34, 30-35, 31-34, 31-35, 32-34, 32-35, 33-34, 33-35, 34-34, 34-35, 35-34, 35-35, 36-34, 36-35

WS85100047-2 30% SUBMITTAL

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

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LEGEND

- BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "B"
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "A"
- COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
- EXISTING CONCRETE PAVEMENT OR SIDEWALK
- NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- AVERAGE GROUND ELEVATION AT R/W LINE
- BACKFILL COMPACTION TYPE
- EXISTING DITCH
- 24" IRR (SRP) EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
- 3/4" W WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N.= EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- M NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- 30" SD (RCP) EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4"G EXISTING GAS LINE W/SIZE
- E EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-4D EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-4D EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV EXISTING UNDERGROUND CABLE TV
- FO EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING WOOD FENCE
- EXISTING METAL FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- EXISTING TREE TO REMAIN

LEGEND AND NOTES

WATER GENERAL NOTES

1. PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.
2. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE UNIFORM STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AND THE PHOENIX SUPPLEMENTAL STANDARD DETAILS AND SPECIFICATIONS (NEWEST EDITION). SIX INCH AND TWELVE INCH DIAMETER PIPES SHALL BE MINIMUM 150 P.S.I. DESIGN PRESSURE COMPLIANT WITH MAG SPECIFICATIONS.
3. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
5. TRAFFIC CONTROL SHALL CONFORM TO THE RIGHT–OF–WAY MANAGEMENT PROGRAM (RMP), ADOPTED BY THE CITY OF PHOENIX AND SHALL ALSO BE SUBJECT TO CITY REVIEW AND APPROVAL.
6. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY TO THE BEST INFORMATION AVAILABLE.
7. EXISTING UTILITIES AND OTHER FACILITIES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM FIELD SURVEY, EXISTING MAPS AND AS–BUILTS AND OTHER PLANS WITHIN THE AREA OF THIS PROJECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND/OR ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND MAY AFFECT THE CONSTRUCTION.
8. TWO DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL "BLUE STAKE" AT 263–1100 FOR THE LOCATION AND IDENTIFICATION OF THE UNDERGROUND UTILITIES.
9. ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE IN RIGHT OF WAY, UNLESS NOTED OTHERWISE.
10. ALL BURIED VALVES SHALL INCLUDE A VALVE BOX AND COVER UNLESS OTHERWISE NOTED. VALVE BOX AND COVER SHALL BE INSTALLED PER C.O.P. SUPPLEMENT TO MAG STANDARD DETAIL P–1391–1, TYPE A.
11. BIDDERS ARE ADVISED THAT THE LOCATION, NUMBER, AND TYPE OF UTILITIES SHOWN ON THESE PLANS AND SPECIFICATIONS ARE ONLY AS ACCURATE AS THE BEST INFORMATION AVAILABLE FROM PUBLIC UTILITIES, OWNERS, AND USERS AT THE TIME THESE PLANS AND SPECIFICATIONS WERE PREPARED. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS PROJECT WHICH WERE NOTE DISCLOSED TO THE ENGINEER. NO REPRESENTATION IS MADE THAT THE UTILITY LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATIONS OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR THE PRE–CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZONA REVISED STATUTE 40–360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602) 261–1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
12. BY SUBMITTING A PROPOSAL ON THIS PROJECT, BIDDERS ARE REPRESENTING THAT THEY HAVE CONSIDERED THE POTENTIAL IMPACT OF TEMPORARY OR PERMANENT RELOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT ON THE THEIR COSTS, AND THAT THEY HAVE INCLUDED IN THEIR PROPOSALS THE COST OF FINDING, PROTECTING, AND RELOCATING ALL EXISTING UTILITIES WITHIN THE PROJECT. NO ADDITIONAL COMPENSATION FOR DAMAGES WILL BE PAID FOR ANY COST, LOSS, DAMAGE, HINDRANCE, OR DELAY INCURRED BY A CONTRACTOR OR SUBCONTRACTOR DUE TO CONFLICTS WITH EXISTING UTILITIES; REGARDLESS OF WHETHER OR NOT THOSE UTILITIES ARE INDICATED ON THE PLANS OR SPECIFICATIONS FOR THIS PROJECT.
13. THE SOLE AND EXCLUSIVE REMEDY FOR ANY COST, HINDRANCE, OR DELAY CAUSED BY ANY UTILITIES LOCATED WITHIN THE PROJECT (WHETHER OR NOT INDICATED ON THE PLANS OR SPECIFICATIONS) SHALL BE AN EXTENSION OF THE CONTRACT TIME; THE NEED FOR OR DURATION OF WHICH SHALL BE DETERMINED BY THE ENGINEER IN ITS SOLE DISCRETION.
14. THE CONTRACTOR SHALL DEFLECT PIPE JOINTS PER MANUFACTURER'S RECOMMENDATIONS AND OR PROVIDE FITTINGS IN ORDER TO PROVIDE A CONSISTENT OFFSET FROM THE CENTERLINE OF THE ROADWAY AS SHOWN ON THE PLANS.
15. CITY OF PHOENIX INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) – .
16. MINIMUM DEPTH OF COVER ON TRANSMISSION MAIN IS 6.5 FT (TOP OF PIPE). FOLLOW SLOPES AND INVERTS AS SHOWN ON PLAN AND MAINTAIN MINIMUM DEPTH. IF ANY DEVIATION FROM PLAN IS REQUIRED CONTRACTOR MUST CONTACT THE ENGINEER TO DETERMINE ANY REVISIONS NEEDED PRIOR TO PROCEEDING.
17. PER MAG SECTION 630, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND TECHNICAL DATA REQUIRED FOR EVALUATING AND APPROVAL OF EACH TYPE OF VALVE, TAPPING SLEEVE AND VALVE AND BUTTERFLY VALVE. SHOP DRAWINGS MUST BE SUBMITTED TO WATER SERVICES AFTER THE ENGINEER OF RECORD HAS PROVIDED THEIR RECOMMENDATION OR APPROVAL.
18. FIRE HYDRANT BONNET TO BE PAINTED BLACK PER PHOENIX FIRE CODE ARTICLE 9, REVISED, 903.4.4.3 SINCE THIS IS A DEWATERING OR AIR RELEASE POINT.
19. TWO WATER VALVES ARE REQUIRED FOR FIRE HYDRANT CONNECTIONS; ONE VALVE NEAR THE MAIN AND ONE VALVE NEAR THE FIRE HYDRANT.
20. FOR SHUTDOWN REQUESTS NECESSARY TO ACCOMPLISH APPROVED WORK SHALL BE ADDRESSED AT THE PROJECT PRE–CONSTRUCTION MEETING, WITH THE CONTRACTOR CONTINUALLY PROVIDING SCHEDULE UPDATES AS CONSTRUCTION PROGRESSES. THE FORM TO REQUEST A SHUTDOWN CAN BE OBTAINED BY THE CITY PROJECT MANAGER. THE CONTRACTOR SHALL INITIATE A WRITTEN SHUTDOWN REQUEST EARLY IN THE PROJECT AND PROVIDE A COPY OF THE CURRENT CONSTRUCTION SCHEDULE. EACH SHUTDOWN REQUEST SHALL SPECIFY THE LOCATION, SIZE OF WATER MAIN, DATE AND TIME, AND THE DURATION. WRITTEN NOTIFICATION WILL BE GIVEN TO THE CONTRACTOR ONCE THE SHUTDOWN SCHEDULE IS APPROVED. ANY SUBSEQUENT SCHEDULE REVISIONS REQUESTED BY THE CONTRACTOR MUST ALSO BE IN WRITING.

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047–2	2	117

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ADDITIONAL WATER NOTES

21. A LIMITED SHUTDOWN OF THE INVOLVED WATER MAIN WILL BE ALLOWED ONLY BETWEEN OCTOBER 15TH AND APRIL 15TH, AND NOT DURING CANAL OUTAGES OR OTHER WORK OCCURRING IN THAT PART OF THE SYSTEM. THE MAXIMUM ALLOWABLE SHUTDOWN PERIOD WILL BE DETERMINED BY THE WATER SERVICES DEPARTMENT.
22. ONCE THE EXISTING WATER PIPE IS CUT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE PIPE CLEAN AND FREE OF DIRT AND DEBRIS BY CAPPING THE ENDS UNTIL THE FINAL CONNECTIONS CAN BE COMPLETED. PRIOR TO THE FINAL CONNECTIONS, THE EXISTING PIPE SHALL BE SWABBED WITH A MINIMUM 50 PPM CHLORINE SOLUTION FOR A DISTANCE OF 1–FEET FROM THE OPENING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NEGATIVE BACTERIOLOGICAL RESULTS PRIOR TO THE LINE BEING RETURNED TO SERVICE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE REVISION.
24. THE WATER SERVICES DEPARTMENT IS INDEMNIFIED FOR ANY AND ALL RESULTANT COSTS INCURRED BY THE CONTRACTOR SUCH AS, BUT NOT LIMITED TO TRAFFIC CONTROL, DELAYS, LOSS OF INCENTIVES, STANDBY AND PENALTIES IF THE CONTRACTOR DID NOT PROPERLY REQUEST A SHUTDOWN; OR FAILED TO MAINTAIN ACCESSIBILITY TO VALVES; OR ON THE SCHEDULED DATE WORK HAD NOT PROGRESSED TO THE POINT AT WHICH THE SHUTDOWN WAS NEEDED.
25. ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX DETAIL P–1391, TYPE A ONLY.
26. THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:

    370 VERTICAL REALIGNMENT OF WATER MAINS
    381 ANCHOR BLOCKS FOR VERTICAL BENDS
    390 CURB STOP WITH FLUSHING PIPE
    391–1 VALVE BOX INSTALLATION
27. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 AND CITY PHOENIX SUPPLEMENTS.
28. THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
29. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO BE OUTSIDE OF UNDERGROUND UTILITY.
30. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
31. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
32. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
33. RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P–85 A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: HTTP: //PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML
34. IN ACCORDANCE WITH AAC R18–4–119, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO AAC R18–4–213.

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LEGEND AND NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ NONE VERT			2	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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STRUCTURAL NOTES

1. "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601–3.05 – FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

SOUTHWEST GAS NOTES:

1. GAS PIPING COATING/WRAPPING MAY CONTAIN ASBESTOS. CONFLICTING PIPING MUST BE REMOVED BY ONE OF SOUTHWEST GAS CORPORATION'S NESHAP CERTIFIED CONTRACTORS. THE CERTIFIED CONTRACTORS WILL REMOVE THE PIPE DURING THE WORK HOURS OF 7:00 AM TO 3:30 PM, MONDAY THROUGH FRIDAY. THE COSTS OF THE CERTIFIED NESHAP CONTRACTORS, ABANDONMENT MATERIALS, STORAGE AND TRANSPORTATION SHALL BE AT THE COST OF THE CONTRACTOR. THE CONTRACTOR SHALL EXCAVATE TO WITHIN 1 FOOT OF THE EXISTING GAS PIPING TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE SHORING, PLATING, TRAFFIC CONTROL AND COORDINATION AS REQUIRED FOR SOUTHWEST GAS CORPORATION TO REMOVE THE GAS PIPING. THE CONTRACTOR SHALL CONTACT SOUTHWEST GAS CORPORATION AT LEAST ONE WEEK PRIOR TO CONSTRUCTION AT 602–484–5256 TO COORDINATE THE REMOVAL OF THE ABANDONED PIPE. TO HAVE SMALL SECTIONS OF 10 FOOT OR LESS OF POTENTIALLY CONFLICTING GAS PIPING REMOVED THE CONTRACTOR SHALL CONTACT SOUTHWEST GAS CORPORATION AT 602–271–4277.
2. DURING PROJECT CONSTRUCTION ALL GAS PIPELINE VALVES, LINE LOCATING STATIONS, TEST POINTS, UNDERGROUND VAULTS SHALL BE KEPT ACCESSIBLE AT ALL TIMES.
3. CONTACT SOUTHWEST GAS CONSTRUCTION AT TEMPE OPERATIONS 480–730–3670 FOR COORDINATING WORK AND INSPECTIONS. FOR EMERGENCIES CALL 1–800–528–4277
4. ONCE MECHANICAL TRENCHING IS IN PROGRESS, DO NOT ATTEMPT TO TRENCH WITHIN TWO FEET OF A GAS PIPE. THE TRENCHING SHALL BE DONE BY HAND IN ORDER TO PREVENT ANY DAMAGE TO THE GAS PIPE. IN THE EVENT THE CONTRACTOR SHOULD "HOOK" OR OTHERWISE STRAIN A GAS PIPE WHILE EXCAVATING, IMMEDIATELY CALL 1–800–528–4277 OR 911.
5. WHEN EXCAVATIONS ARE COMPLETE, ALL EXPOSED GAS PIPES SHALL BE PROTECTED. IF LEFT UNATTENDED, THE EXPOSED PIPE SHALL BE SURROUNDED WIT HAT LEAST 6 INCHES BELOW AND 6 INCHES ABOVE WITH PORTLAND CEMENT CONCRETE FINE AGGREGATE SAND. IF THE TRENCH IS MORE THAN 3 FEET WIDE, THE PIPE MUST BE SUPPORTED IN A MANNER WHERE THE SUPPORTING MATERIAL DOES NOT DAMAGE THE PIPE OR THE PROTECTIVE COATING. CONTACT SOUTHWEST GAS ENGINEERING AT 480–730–3855 TO REVIEW AND APPROVE ALL PROPOSED PIPE SUPPORT DESIGNS.
6. WHEN BACKFILLING, SOUTHWEST GAS REQUIRES BOTH SIX INCHES OF BEDDING AND SIX INCHES OF SHADING WITH SAND OR MATERIAL FREE OF ROCKS AND ABLE TO PASS THROUGH A 3/8 INCH SCREEN. DO NOT DROP BACKFILL DIRECTLY OVER THE GAS PIPE. DURING THE COMPACTION PROCESS, USE EXTRA CARE WHEN DIRECTLY OVER THE GAS PIPE IN ORDER TO AVOID AND DAMAGE.

PROJECT NOTES

1. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING APS OVERHEAD AND UNDERGROUND FACILITIES NOT IMPACTED BY THE CONSTRUCTION OF THIS PROJECT.
2. APS FACILITIES THAT ARE NOT IN CONFLICT, BUT MAY REQUIRE ANY POLE BRACING, ADJUSTMENTS OF MANHOLES TO GRADE (REQUIRES PRESENCE OF APS INSPECTOR), TEMPORARY RELOCATIONS OF OVERHEAD AND REQUIRED OUTAGES (DUE TO CONSTRUCTION OF PROJECT) WILL BE AT THE COST OF THE CONTRACTOR.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN MINIMUM OSHA CLEARANCES FROM APS OVERHEAD AND UNDERGROUND FACILITIES. NO EQUIPMENT, SPOIL PILES ETC. SHALL BE PLACED BENEATH AND/OR OVER APS FACILITIES.
4. HAND DIG WITHIN 2 FEET OF ENERGIZED UNDERGROUND ELECTRICAL FACILITIES.
5. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE WRAPPED IN COMPLIANCE WITH MAG SPECIFICATIONS AND CITY SUPPLEMENTS.
6. ALL EXISTING UTILITY CROSSINGS SHALL BE SUPPORTED PER MAG STANDARD DETAIL 403–1, 403–2 OR PER THE UTILITY OWNERS REQUIREMENTS. ALL CROSSING SUPPORTS SHALL BE A NON PAY ITEM AND SHALL BE INCLUDED IN THE COST OF PIPE.
7. ALL RESTRAINED PIPE LENGTHS SHALL BE PER MAG 303–2 FOR POLYETHYLENE WRAPPED PIPE
8. PER PHOENIX FIRE CODE ARTICLE 9, REVISED 903.4.4.3, THE FIRE HYDRANTS SHOWN ON THIS PLAN SHALL HAVE A BLACK BONNET TO IDENTIFY ITS PURPOSE WHICH SHALL BE USED FOR DEWATERING OR AS AN AIR RELEASE POINT IN THE SYSTEM.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS; PLANS; CITY OF PHOENIX SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS AND DETAILS; AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION BID.
2. ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
3. PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. OPPOSING LATERAL CONNECTIONS TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.
4. PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS, SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER C.O.P. DETAIL P1576.
5. CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22–1/2°. THE BEND SHALL BE COLLARED ACCORDING TO C.O.P. DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22–1/2° SHALL BE PREFABRICATED.
6. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22–1/2° FROM PERPENDICULAR.
7. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
8. AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.
9. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY.
10. UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
11. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
12. CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN. ELEVATIONS SHOWN FOR CATCH BASINS ARE AT TOP OF THE PROPOSED CURB AT THE CENTERLINE OF THE CATCH BASIN, UNLESS OTHERWISE SPECIFIED.
13. SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN SHALL BE PERMANENTLY SUPPORTED PER M.A.G. DETAIL 403–1 OR 403–2 OR AS NOTED ON PLANS. WHERE NOT OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND SUPPORT AND PROTECT ALL UTILITIES IN PLACE DURING CONSTRUCTION. THIS WORK IS INCLUDED IN THE UNIT PRICE OF THE INSTALLATION OF THE PIPE AND IS A NON–PAY ITEM.
14. CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P–1561.
15. STORM WATER CONVEYANCE ALLOWING FOR DISCHARGE TO HISTORIC PATHWAYS ARE TO BE PROVIDED DURING ALL PHASES OF CONSTRUCTION.
16. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION. ANY EXISTING FEATURES DISTURBED OUTSIDE THESE LIMITS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
17. TRAFFIC CONTROL SHALL CONFORM TO THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL" AND SHALL BE SUBJECT TO CITY REVIEW AND APPROVAL.
18. VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT ROADWAYS MUST BE PROTECTED AND MAINTAINED DURING ALL CONSTRUCTION OPERATIONS. THE REQUIREMENTS FOR SIGNING AND BARRICADES OF THE CITY OF PHOENIX STREET TRANSPORTATION DEPARTMENT MUST BE FOLLOWED.
19. THE CONTRACTOR SHALL MAINTAIN RESIDENTIAL ACCESS FOR LOCAL TRAFFIC ALONG PALM LANE DURING THE PROJECT. ANY TRAFFIC RESTRICTION SHALL BE REVIEWED AND BE ACCEPTED BY THE IMPACTED OWNER 48 HOURS PRIOR TO ROADWAY RESTRICTION.
20. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY TO THE BEST INFORMATION AVAILABLE.
21. ALL WORK SHALL INCLUDE REMOVAL, RELOCATION AND MODIFICATIONS TO EXISTING PIPING FACILITIES, IRRIGATION FACILITIES, FENCING, STRUCTURES, ETC. AS REQUIRED TO CONSTRUCT THE FACILITIES. THE CONTRACTOR SHALL SUPPORT, REMOVE AND REPLACE EXISTING UTILITIES AS REQUIRED FOR INSTALLATION OF PROPOSED WATER, SEWER, STORM DRAIN, IRRIGATION AND OTHER PROPOSED FACILITIES INDICATED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE EXISTING UTILITY REMOVALS, REPLACEMENTS, AND SHUT DOWN TIMES WITH THE RESPECTIVE UTILITY AGENCY REPRESENTATIVES. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE UTILITY REPRESENTATIVES PRIOR TO SHUT DOWNS, REMOVALS, REPLACEMENTS AND SHALL PERFORM ALL NECESSARY BYPASS PUMPING REQUIRED AND SHALL PROVIDE AND MAINTAIN ALL WATER, SEWER, GAS, ELECTRIC, COMMUNICATIONS, ETC. SERVICES REQUIRED DURING AND AFTER THE WORK AS DIRECTED BY THE RESPECTIVE UTILITY AGENCY REPRESENTATIVE. COST OF ALL UTILITY RELOCATIONS, SHUTDOWNS, BYPASSING, MAINTAINING SERVICE ETC. SHALL BE BORNE BY THE CONTRACTOR AND IS CONSIDERED INCLUDED IN THE COST OF THE WORK.
22. EXISTING UTILITIES AND OTHER FACILITIES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM FIELD SURVEY, EXISTING MAPS AND AS–BUILTS AND OTHER PLANS WITHIN THE AREA OF THIS PROJECT. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND MAY AFFECT THE CONSTRUCTION. VARIATIONS BETWEEN ACTUAL DIMENSIONS AND THE DIMENSIONS INDICATED WILL NOT BE A BASIS FOR ANY INCREASE OR DECREASE OF THE CONTRACT BID PRICE.

GENERAL NOTES (CONTINUED):

23. THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THE VICINITY OF ALL GAS AND POWER LINES. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE GAS AND POWER TRENCHES AND PIPELINES AT ALL TIMES. SPECIAL ATTENTION SHALL BE GIVEN TO BRACING AND SUPPORT FOR UNDERGROUND POWER CROSSINGS. TRENCHING WITHIN A TWO FOOT VICINITY OF GAS LINES SHALL BE BY HAND. ALL POWER LINE CROSSINGS SHALL BE BRACED DURING CONSTRUCTION. BRACING SHALL BE A NON PAY ITEM UNLESS NOTED OTHERWISE. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
24. THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS.
25. THE SEPARATION OF WATER AND SEWER MAINS SHALL CONFORM WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
26. COMPACTION SHALL COMPLY WITH MAG SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS AND AS INDICATED IN THE PROJECT PLANS AND DETAILS.
27. PIPE DEFLECTIONS SHALL BE PER PIPE MANUFACTURERS' RECOMMENDATIONS.
28. THE CONTRACTOR MUST PROTECT THE ADJACENT PROPERTY AND IMPROVEMENTS THERETO FROM ANY DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO ADJACENT PROPERTY OR IMPROVEMENTS MUST BE REPAIRED OR REPLACED, TO THE PROPERTY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
29. OPEN CUT SLOPES AND SHORING FOR GRAVITY SEWER TRENCH EXCAVATIONS SHALL AS A MINIMUM COMPLY WITH OSHA REQUIREMENTS. WHERE EXCAVATIONS ARE DEEPER THAN 20 FEET, THE CONTRACTOR SHALL HAVE A PROFESSIONAL CIVIL ENGINEER, REGISTERED IN THE STATE OF ARIZONA, DESIGN OPEN CUT SLOPES AND SHORING. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
30. ALL SIDEWALK/DRIVEWAY REMOVALS SHALL BE REMOVED TO THE NEAREST JOINT, SAWCUT AS REQUIRED TO ENSURE A NEAT EDGE. NEW CONCRETE SHALL BE CONSTRUCTED PER MAG DETAILS AND SPECIFICATIONS AND SHALL MATCH WIDTH AND THICKNESS OF EXISTING CONCRETE.*** ALL CURB AND GUTTER REMOVALS SHALL BE REMOVED TO THE NEAREST JOINT. SAWCUT AS REQUIRED TO ENSURE A NEAT EDGE. NEW CURB AND GUTTER SHALL BE PER MAG DETAILS AND SPECIFICATIONS.
31. THE CONTRACTOR SHALL CONSTRUCT PERMANENT OR TEMPORARY PIPE SUPPORTS AS SHOWN ON MAG STANDARD DETAILS 403–1, 403–2 AND 403–3 FOR ALL UTILITY CROSSINGS ON THIS PROJECT. PIPE SUPPORTS SHALL BE A NON PAY ITEM.

ABBREVIATIONS

BC	BRASS CAP	I.E.	INVERT ELEVATION
BCF	BRASS CAP FLUSH	LT	LEFT
BM	BENCHMARK	MH	MANHOLE
BOU	BOTTOM OF UTILITY	P	PAVEMENT
C	CONCRETE	RT	RIGHT
COP	CITY OF PHOENIX	SHT	SHEET
CST	CONSTRUCTION	SRP	SALT RIVER PROJECT
CTL	CENTURY LINK	SSMH	SANITARY SEWER MANHOLE
DTL / DET	DETAIL	STA	STATION
DWG	DRAWING	SW	SOUTHWEST
E	END OR EAST	TBM	TEMPORARY BENCH MARK
ELEC	ELECTRIC OR ELECTRICAL	TCE	TEMPORARY CONSTRUCTION EASEMENT
ELEV	ELEVATION	T/N	TOP OF NUT
EX / EXIST	EXISTING	TOU	TOP OF UTILITY
FND	FOUND	W/	WITH
FO	FIBER OPTIC		
HH	HANDHOLE		

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NOTES AND ABBREVIATIONS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	3	117
SCALE: HORIZ NONE VERT				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

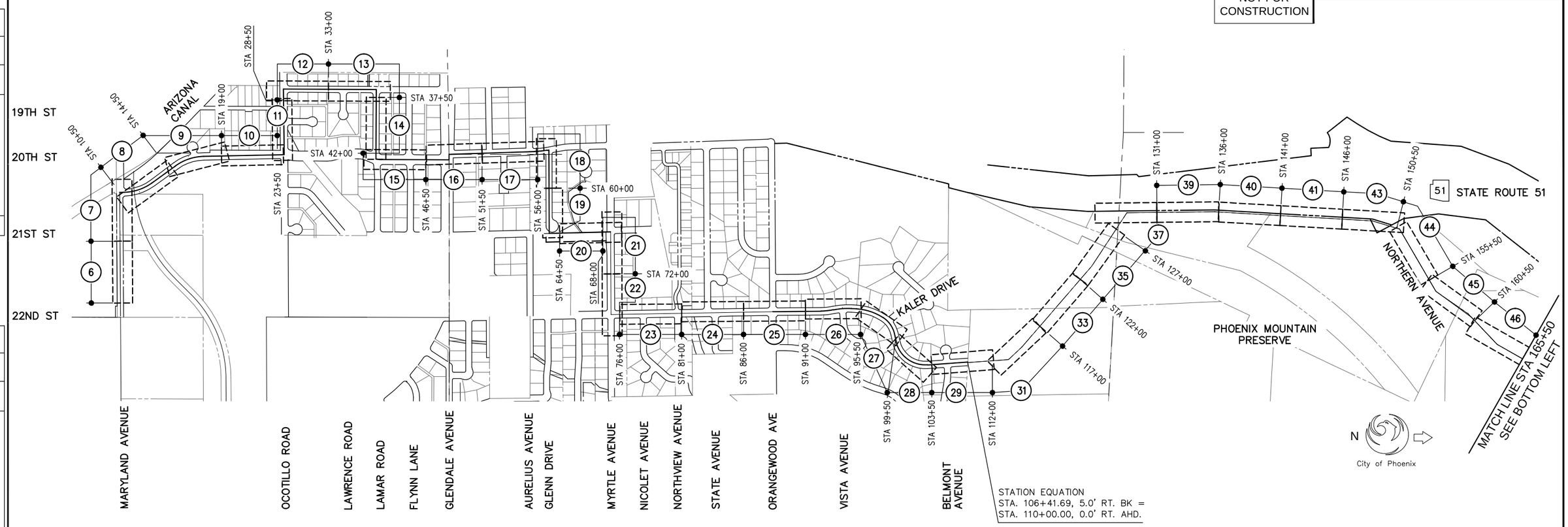
30%

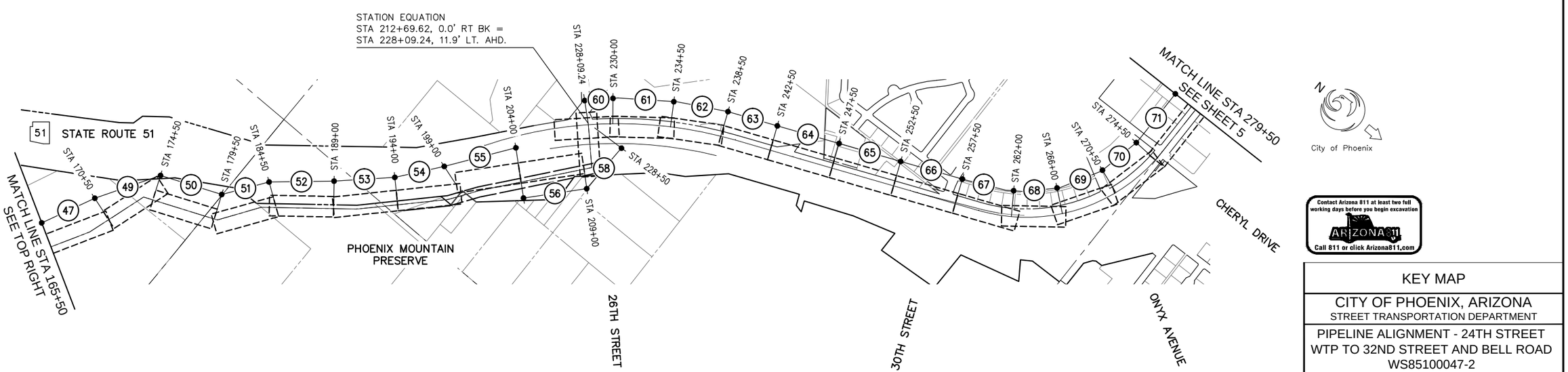
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	4	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE





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KEY MAP

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=400'-0" VERT			4	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	5	117

30%

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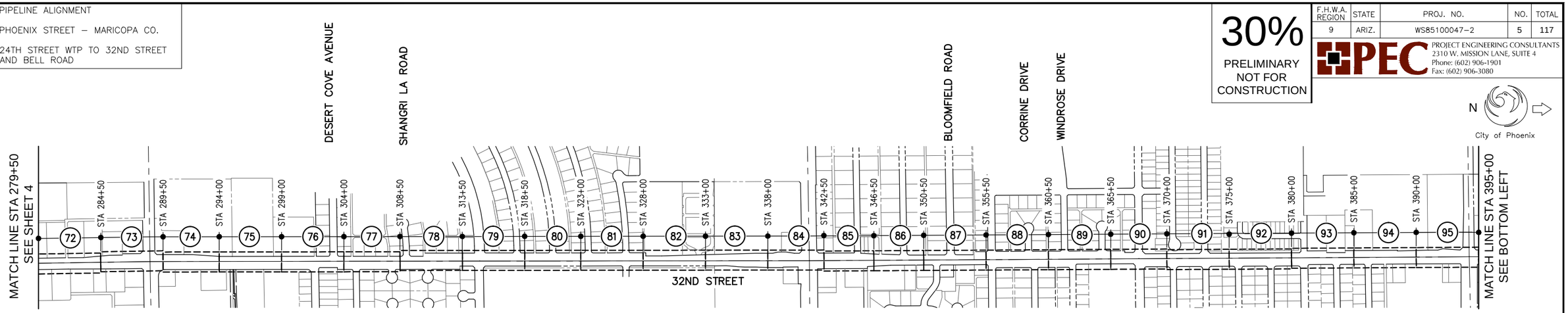

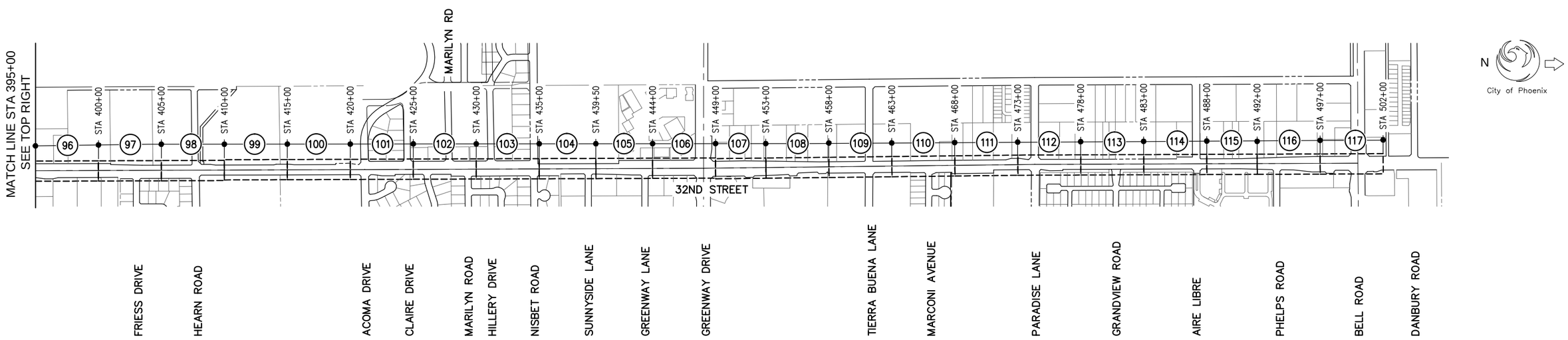

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KEY MAP

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
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DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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SCALE: HORIZ 1"=400'-0" VERT			5	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	6	117

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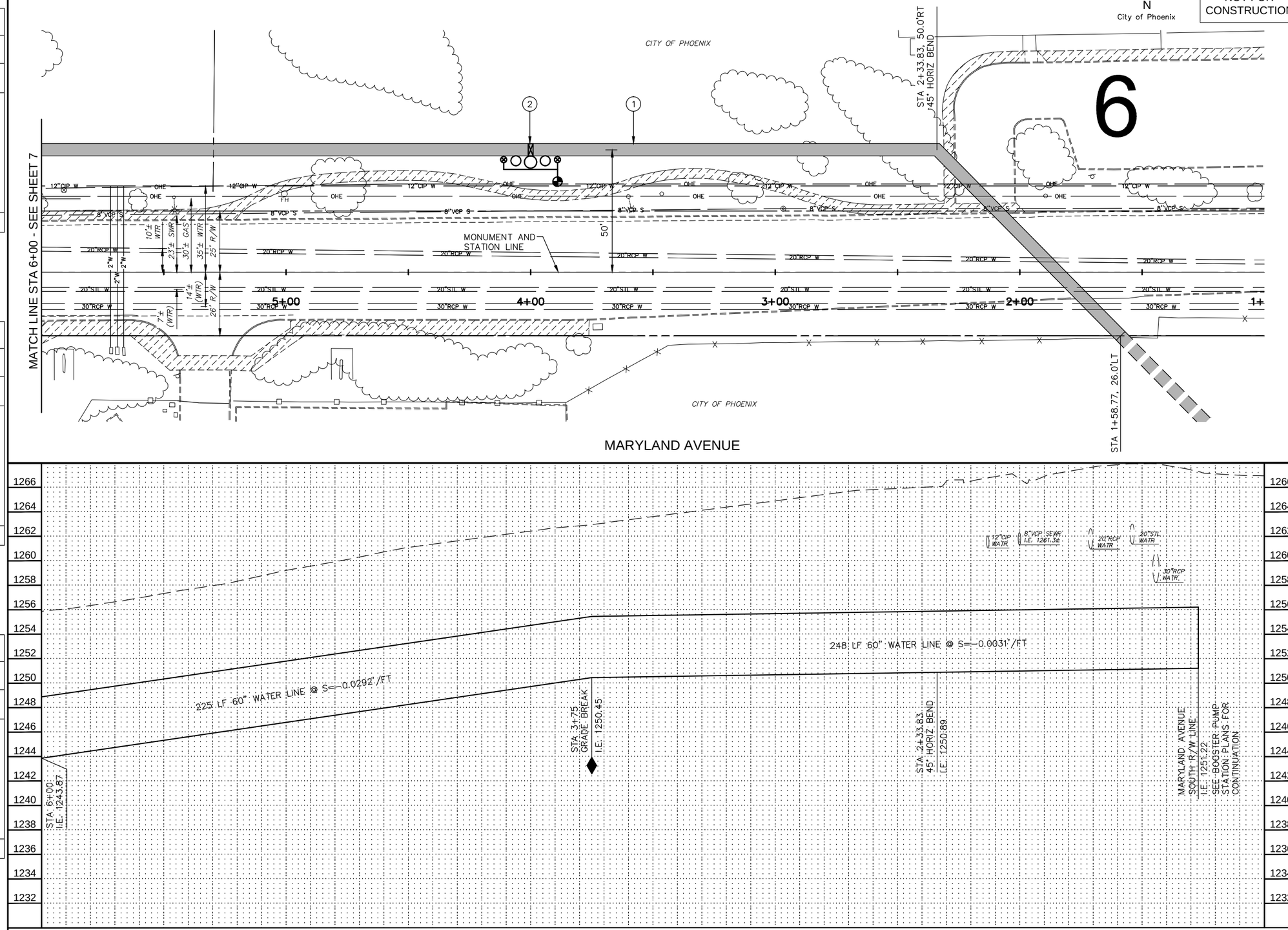

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	473
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	6	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

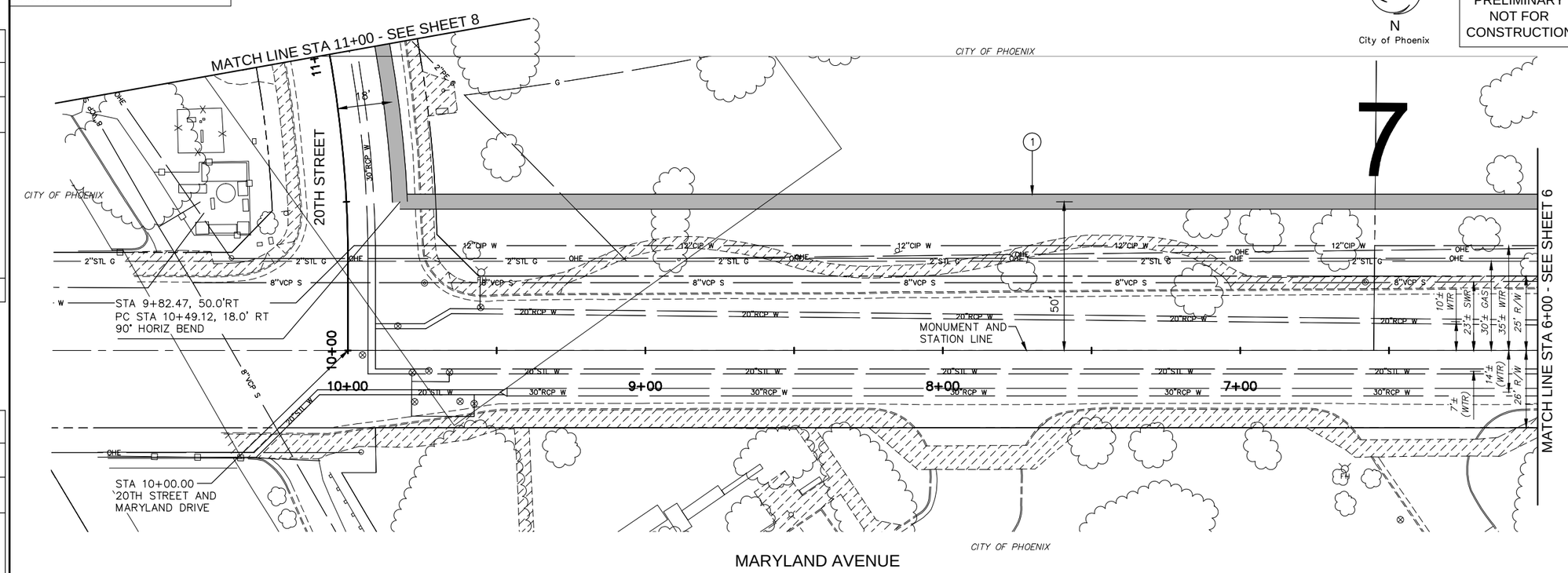
REVISION BY CITY OF PHOENIX

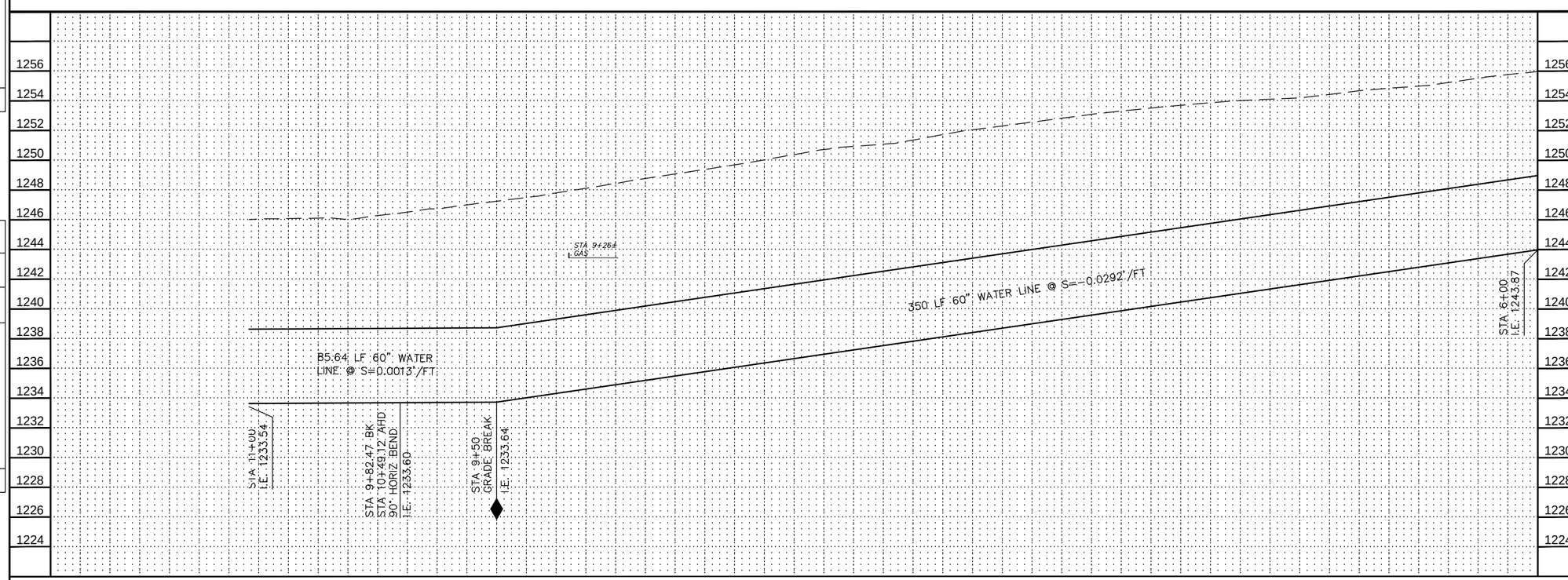
NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	7	117

30%

PRELIMINARY NOT FOR CONSTRUCTION

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PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	436

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	7	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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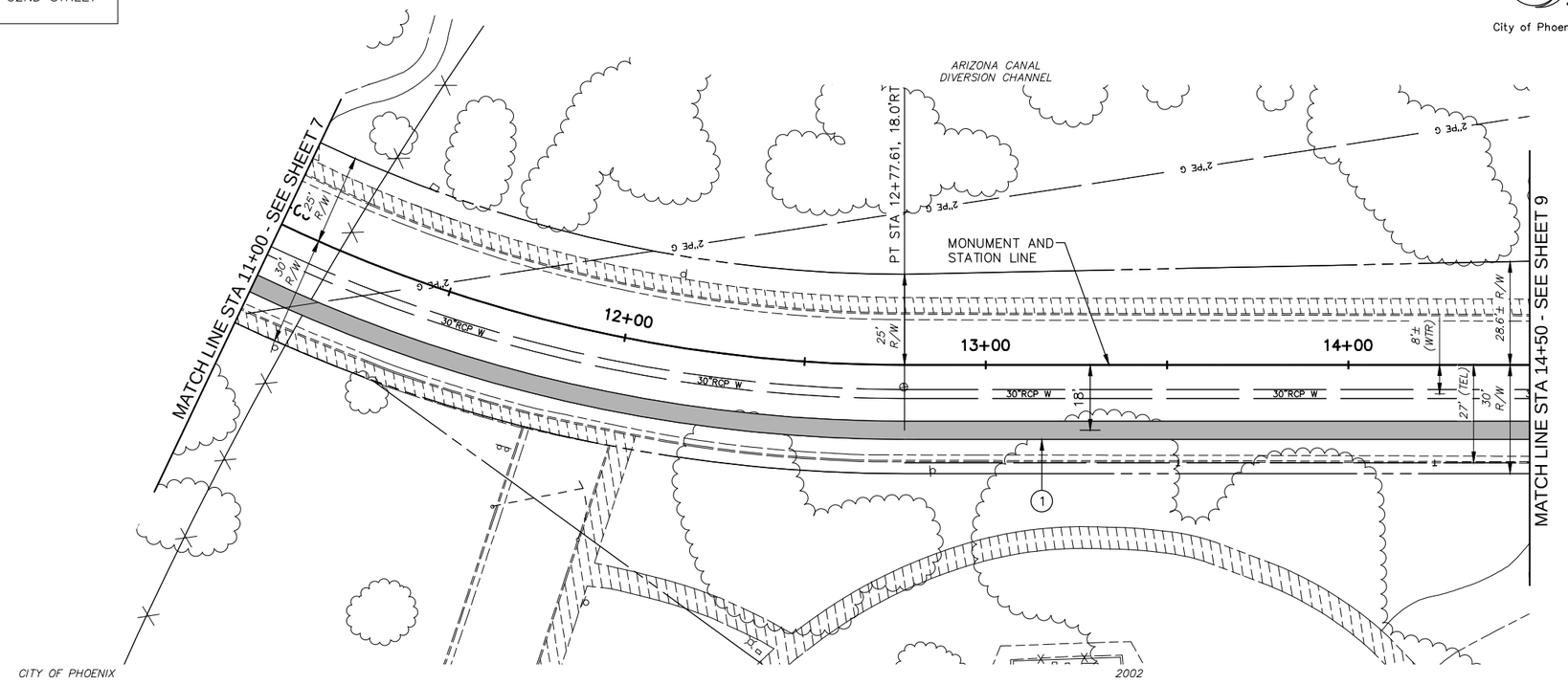
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

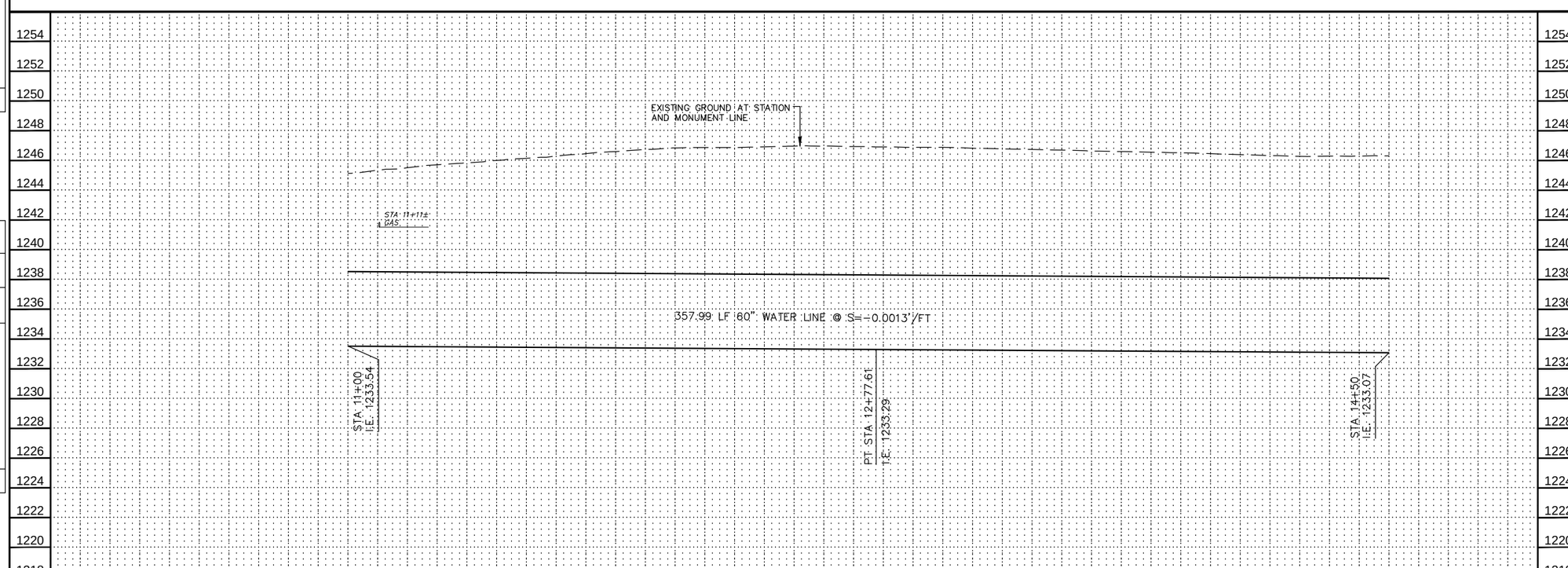
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



20TH STREET



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	8	117

30%

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CONSTRUCTION NOTES

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1	INSTALL 60" WATER LINE	LF	358

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	8	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

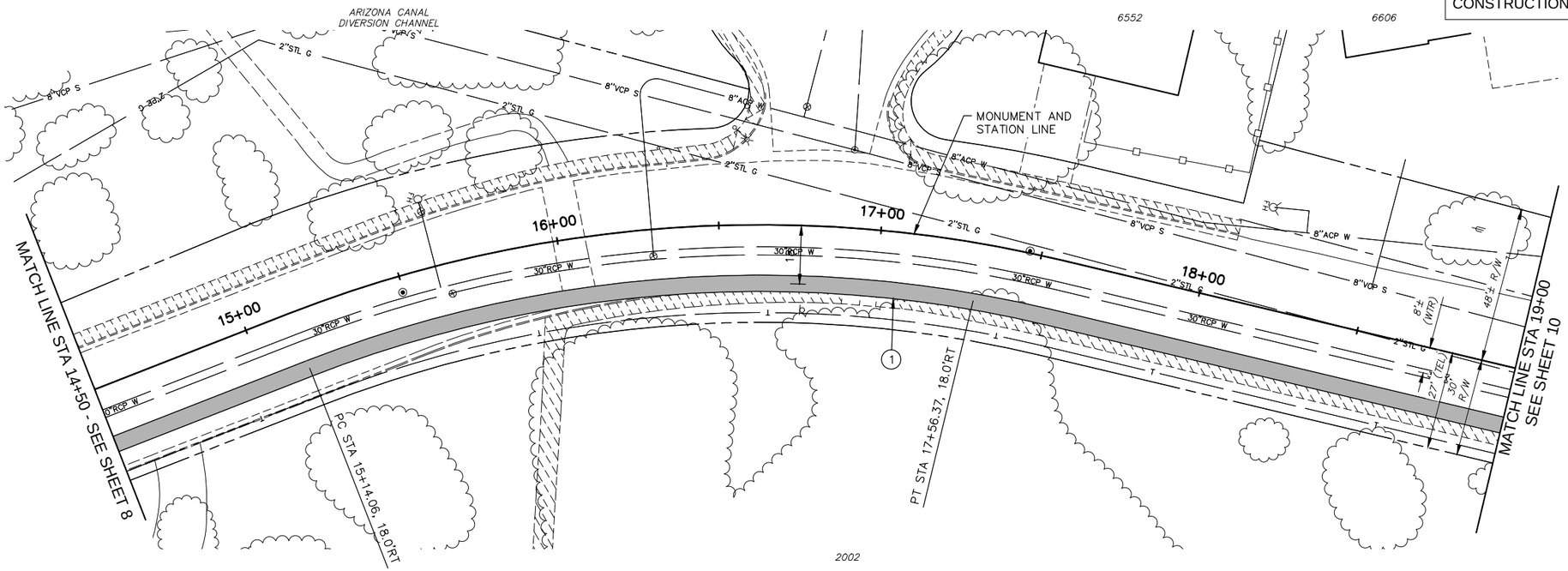
City of Phoenix

30%

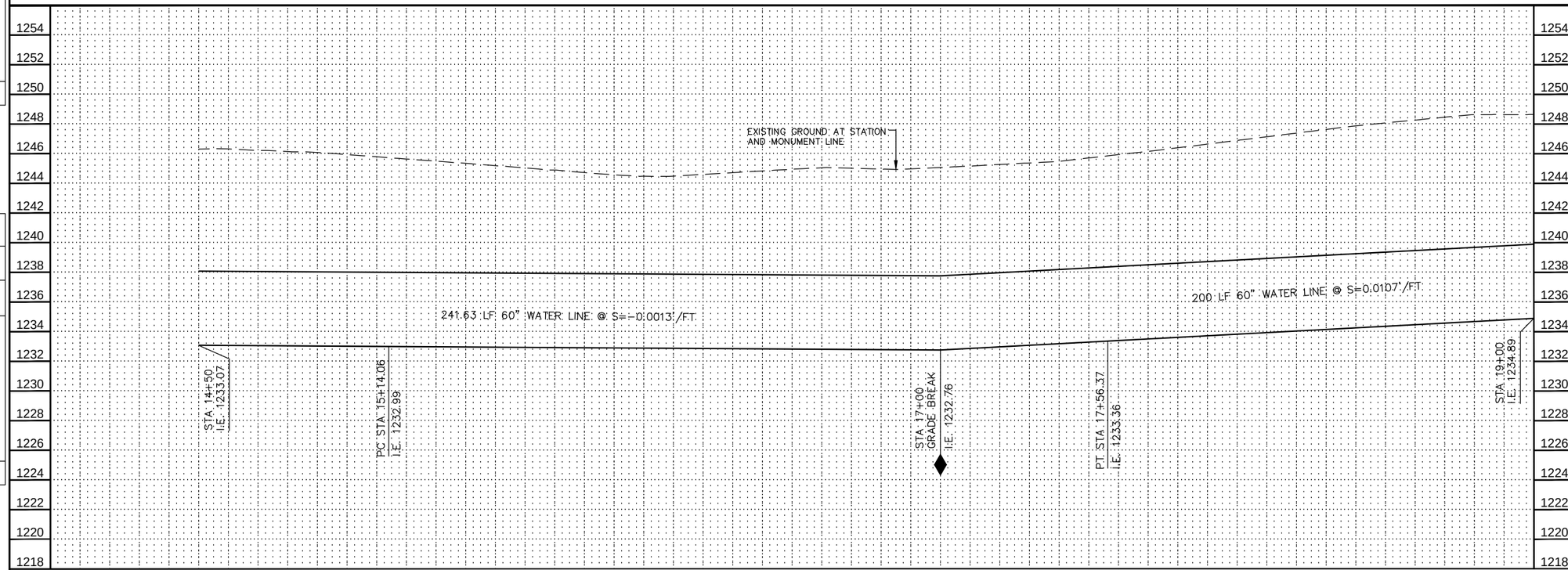
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	9	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



20th STREET



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	442

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			9	117

REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	10	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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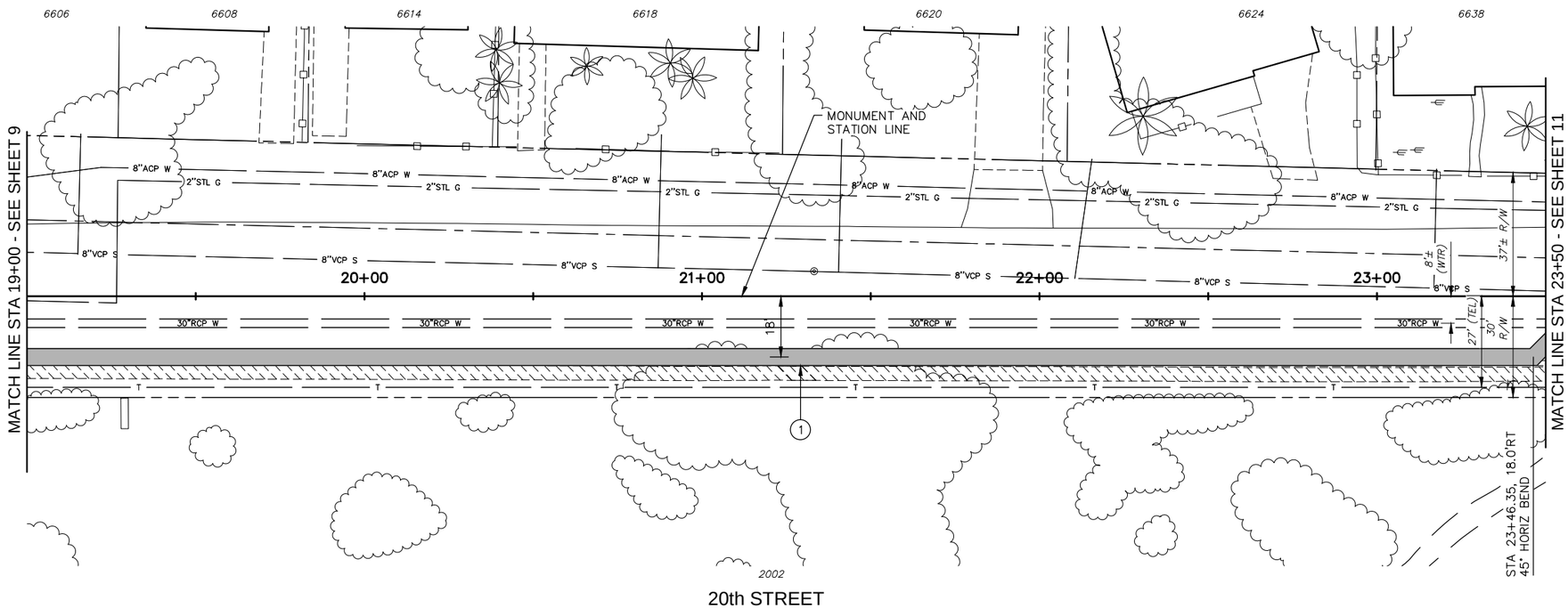
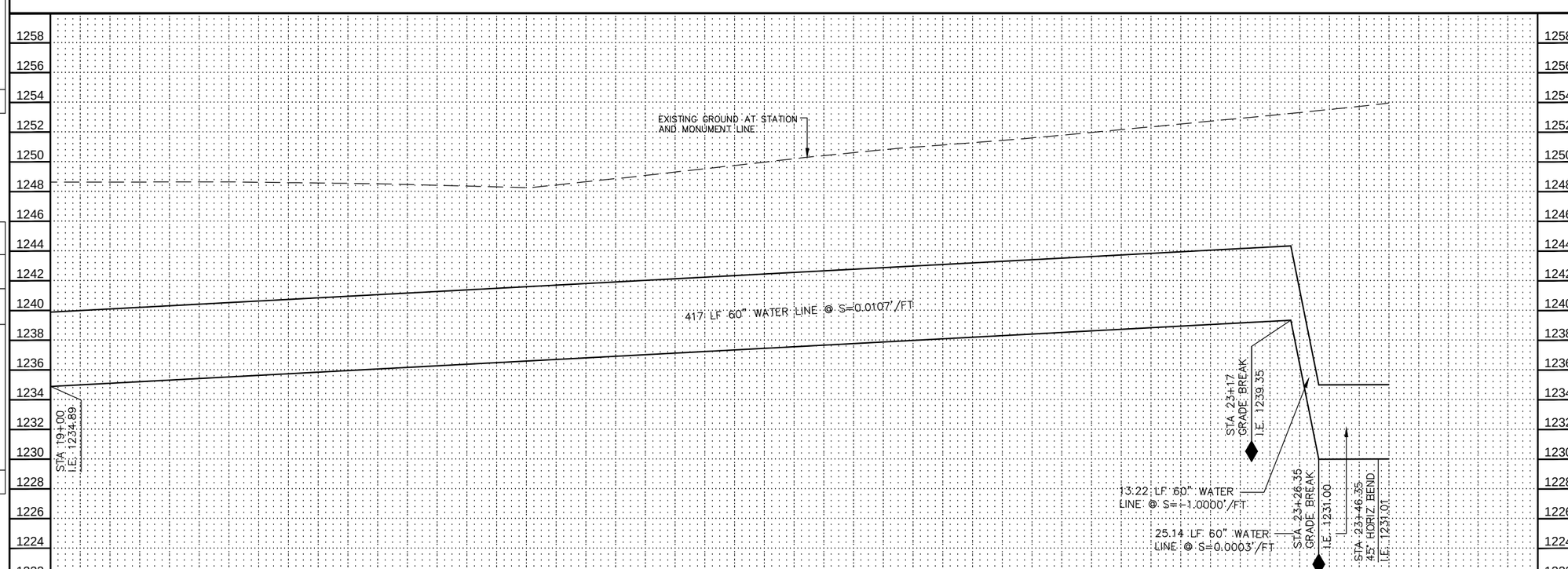
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	456





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	10	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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REVISION BY CITY OF PHOENIX

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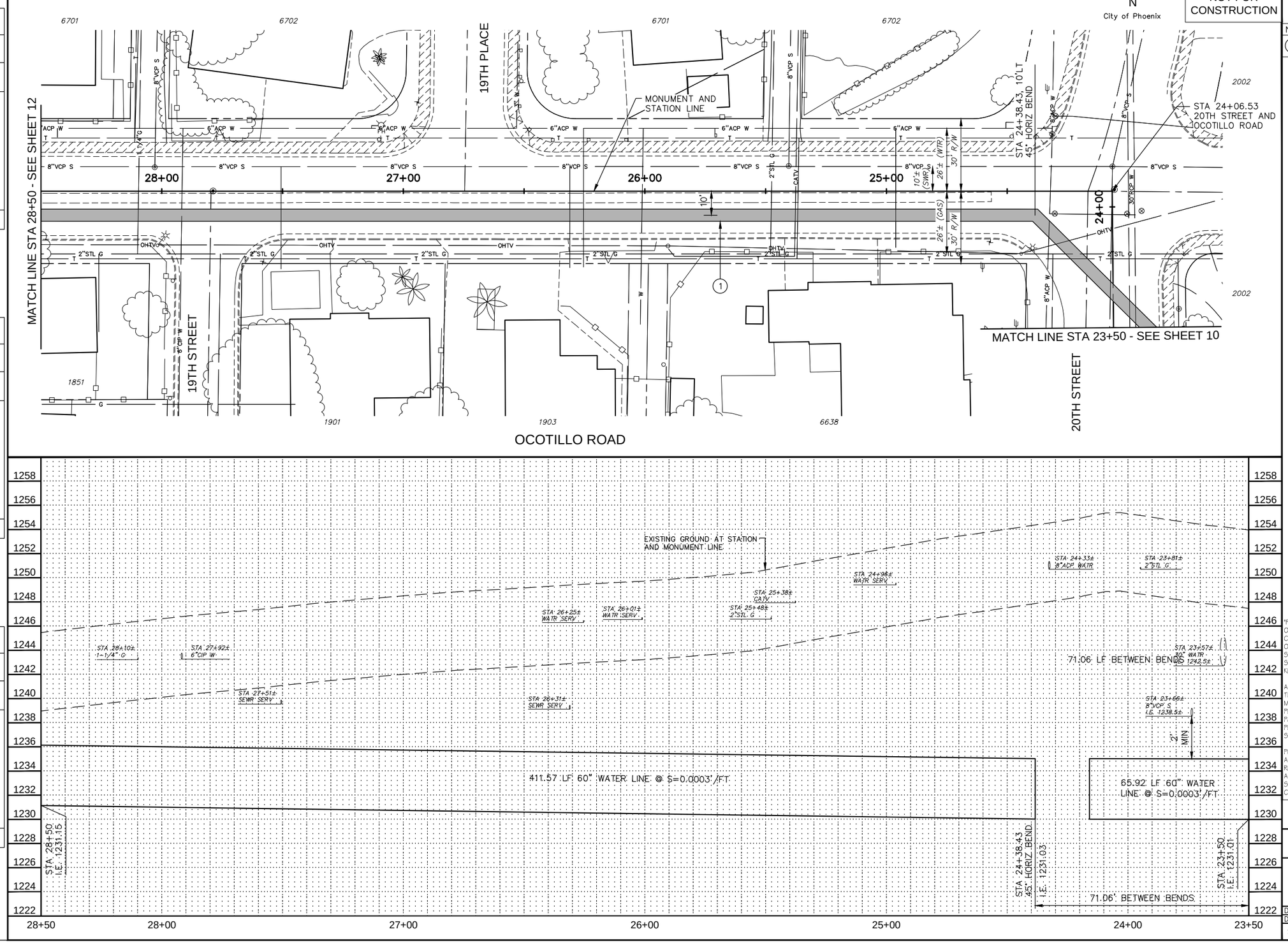
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	11	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	478

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	11	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

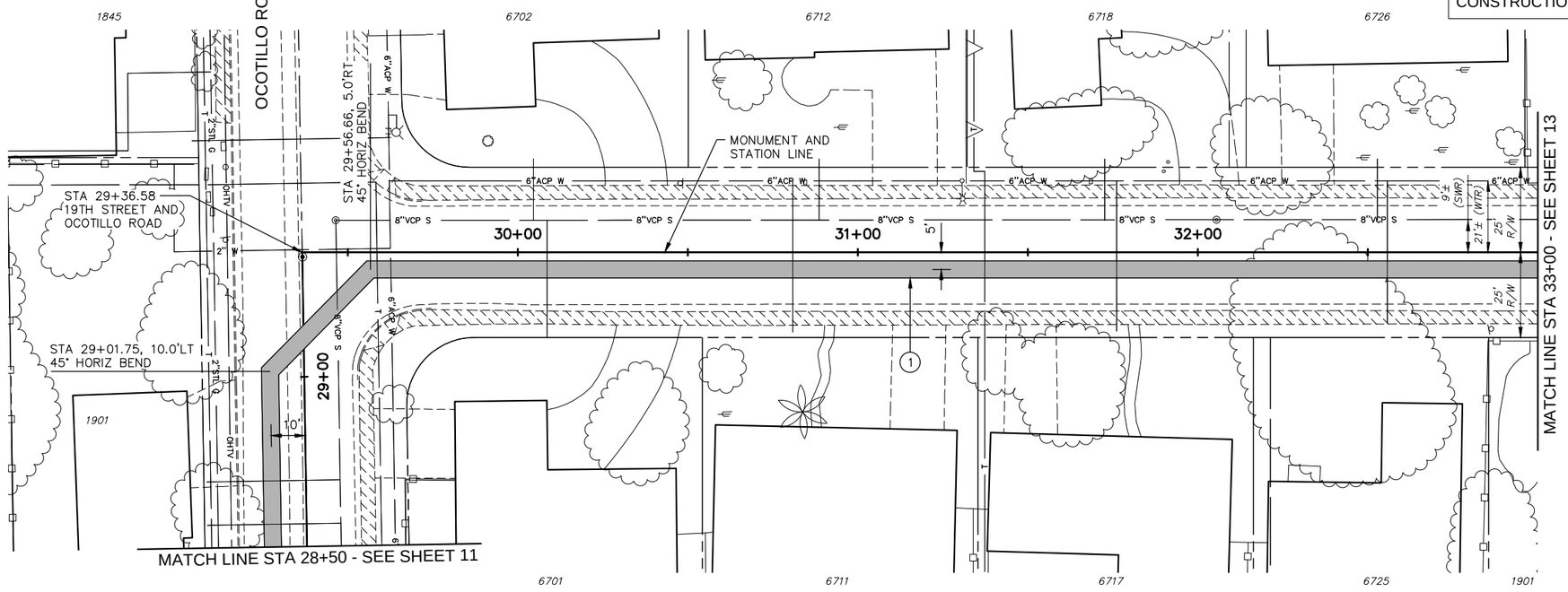
PRELIMINARY NOT FOR CONSTRUCTION

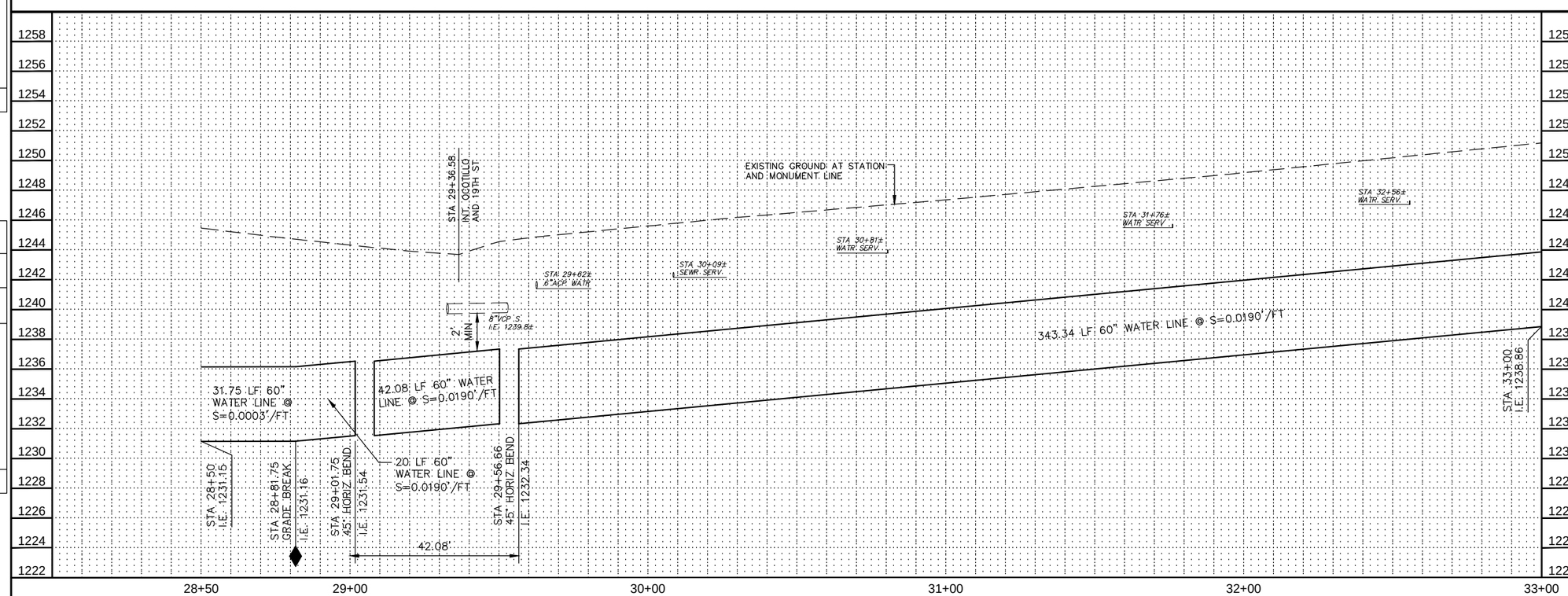
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	12	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	418





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	12	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	13	117

PEC
PROJECT ENGINEERING CONSULTANTS
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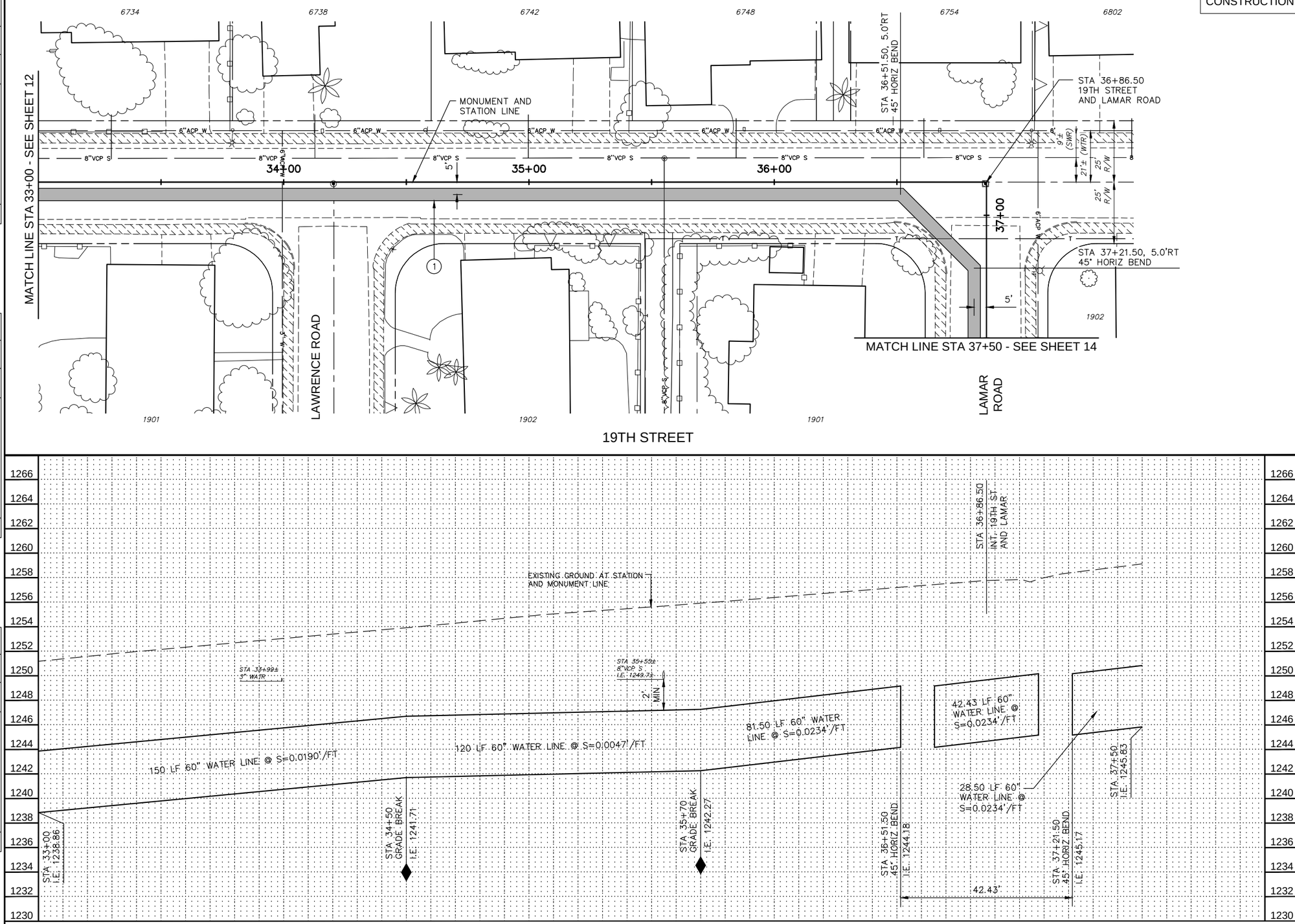
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	423



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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	13	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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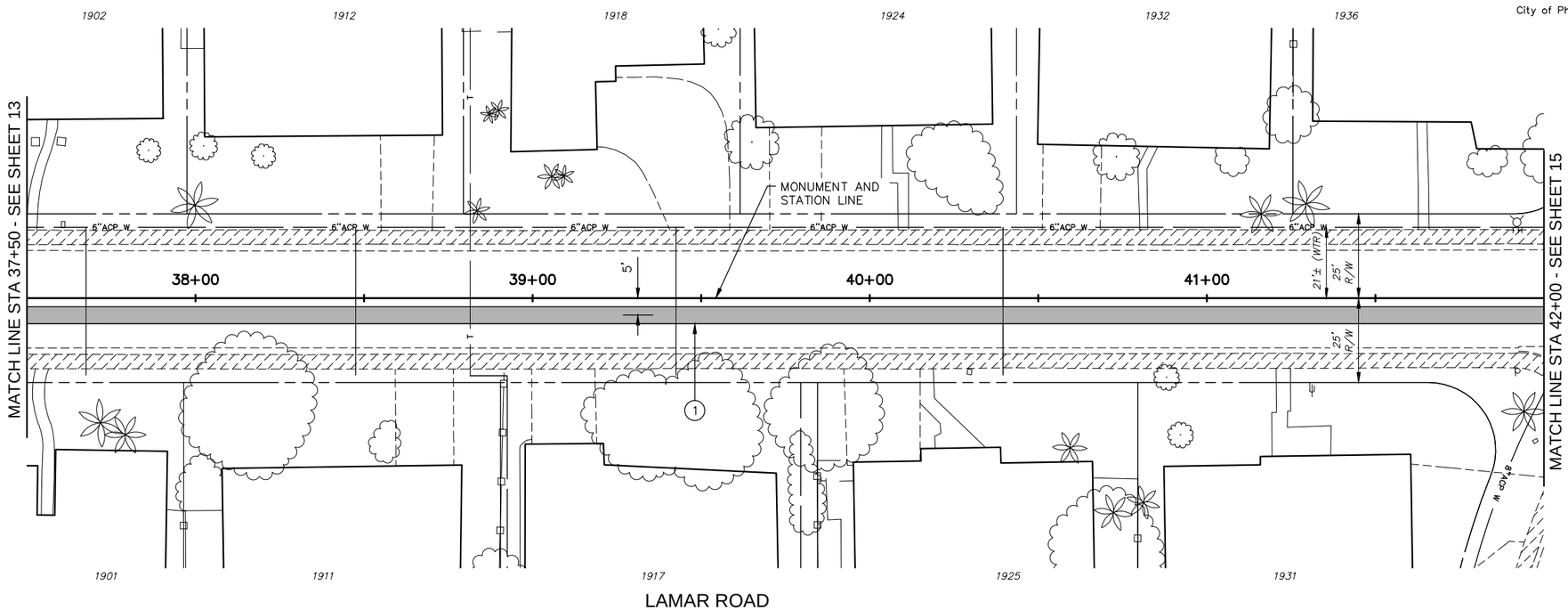
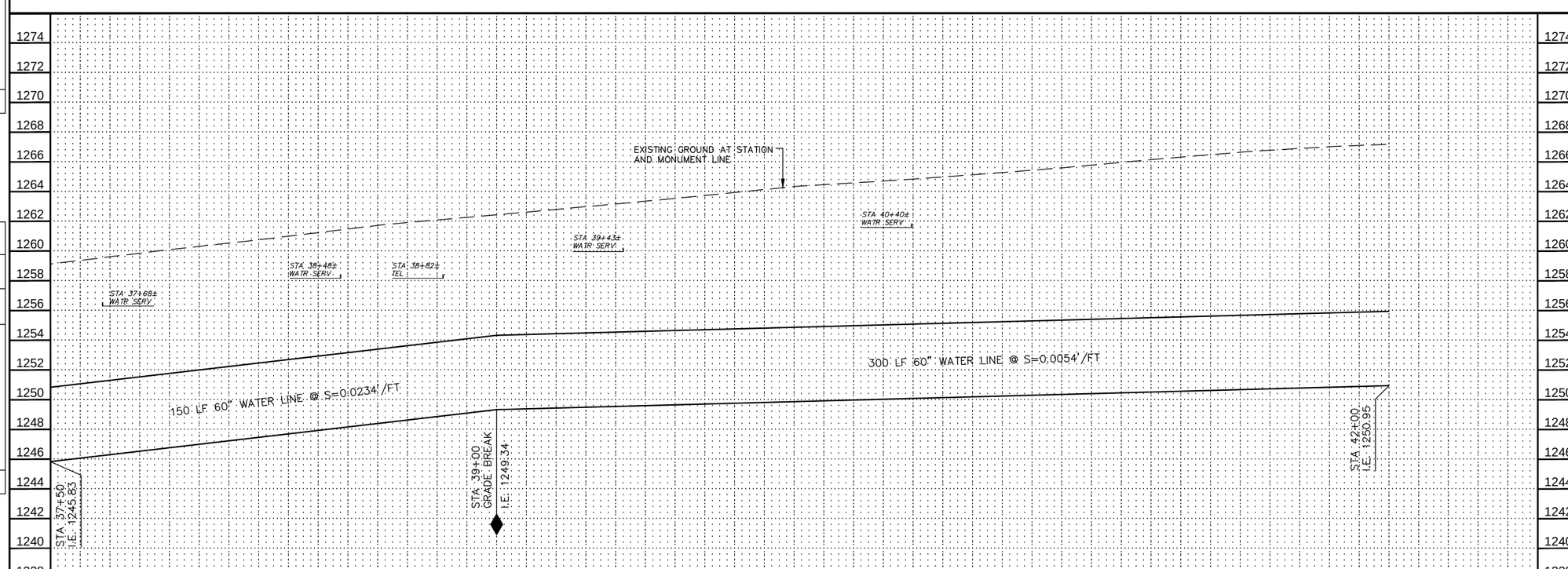
NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





N
City of Phoenix

30%
PRELIMINARY
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	14	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	15	117

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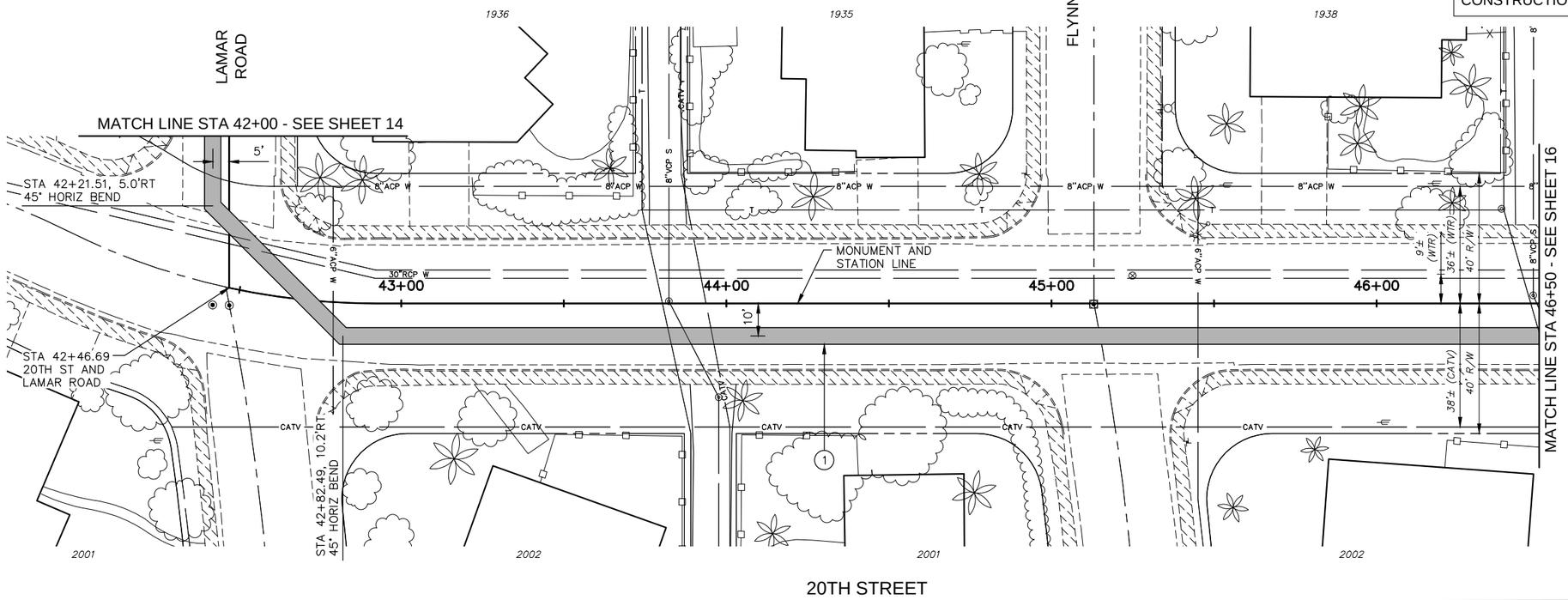
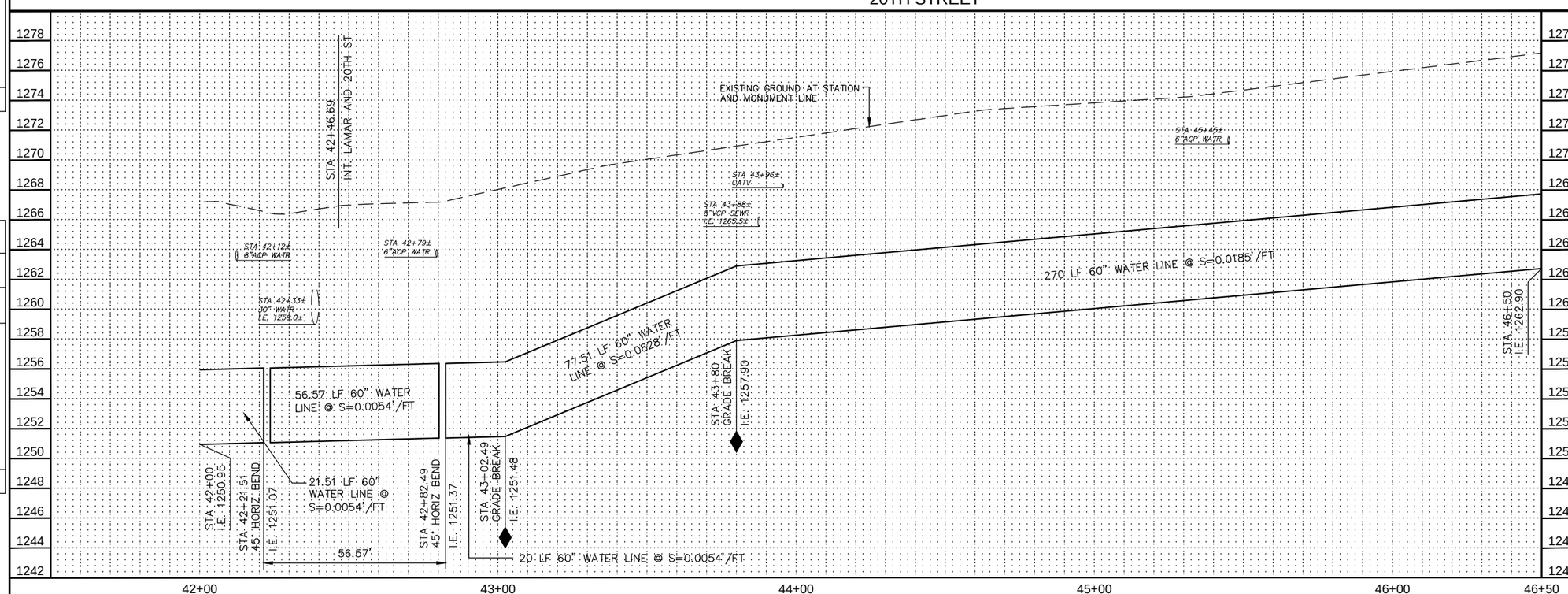
30%
PRELIMINARY
NOT FOR
CONSTRUCTION

N
City of Phoenix





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	446

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			15	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

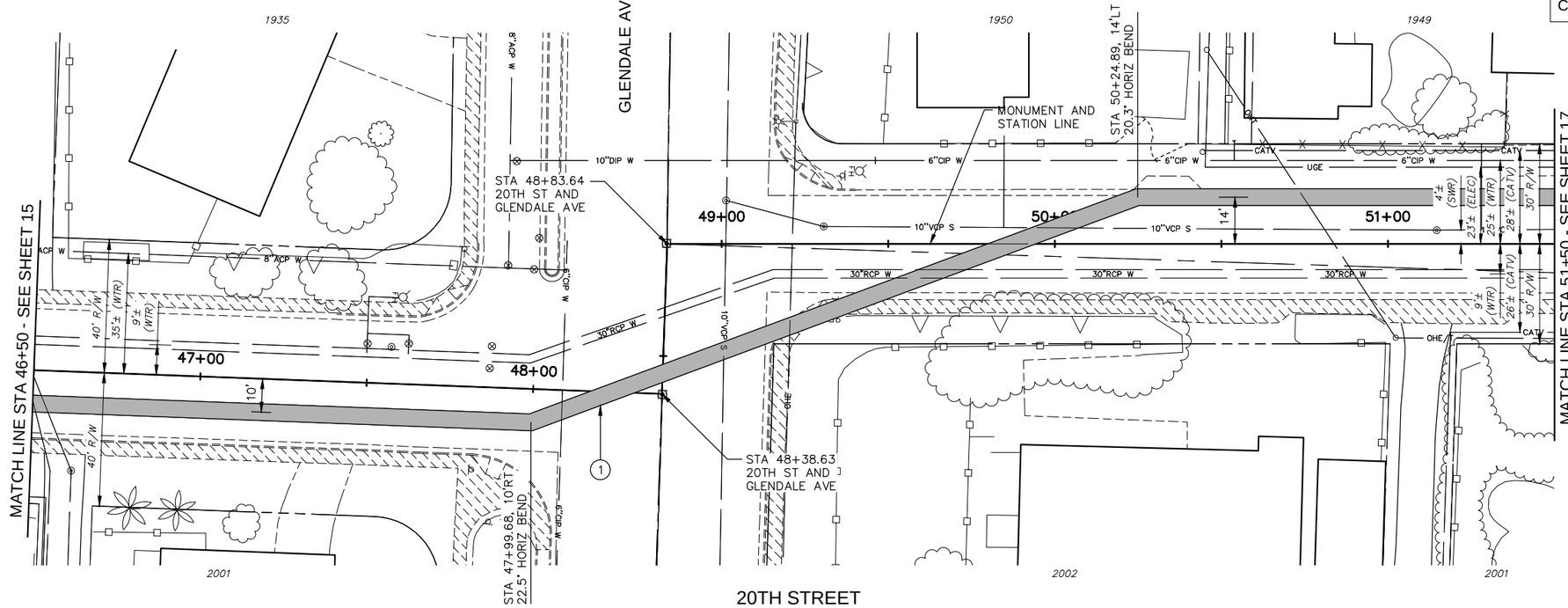
24TH STREET WTP TO 32ND STREET AND BELL ROAD

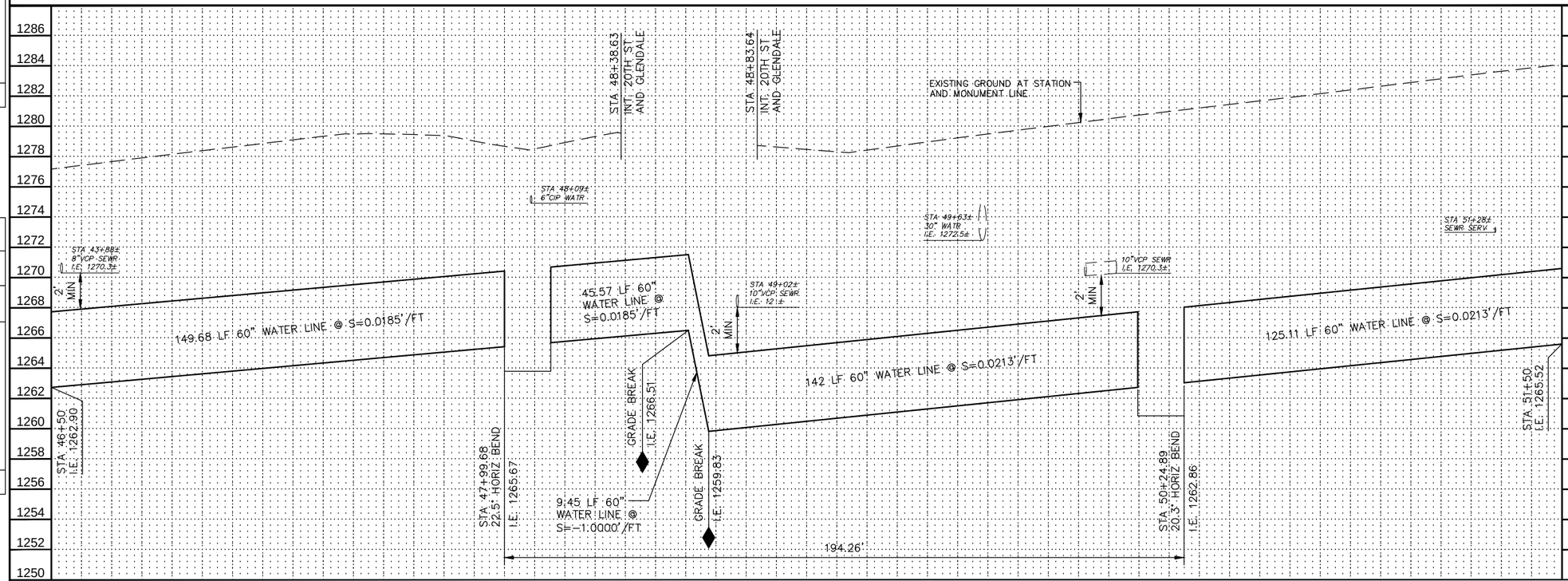
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	16	117

30%

PRELIMINARY NOT FOR CONSTRUCTION

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	472

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			16	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	17	117

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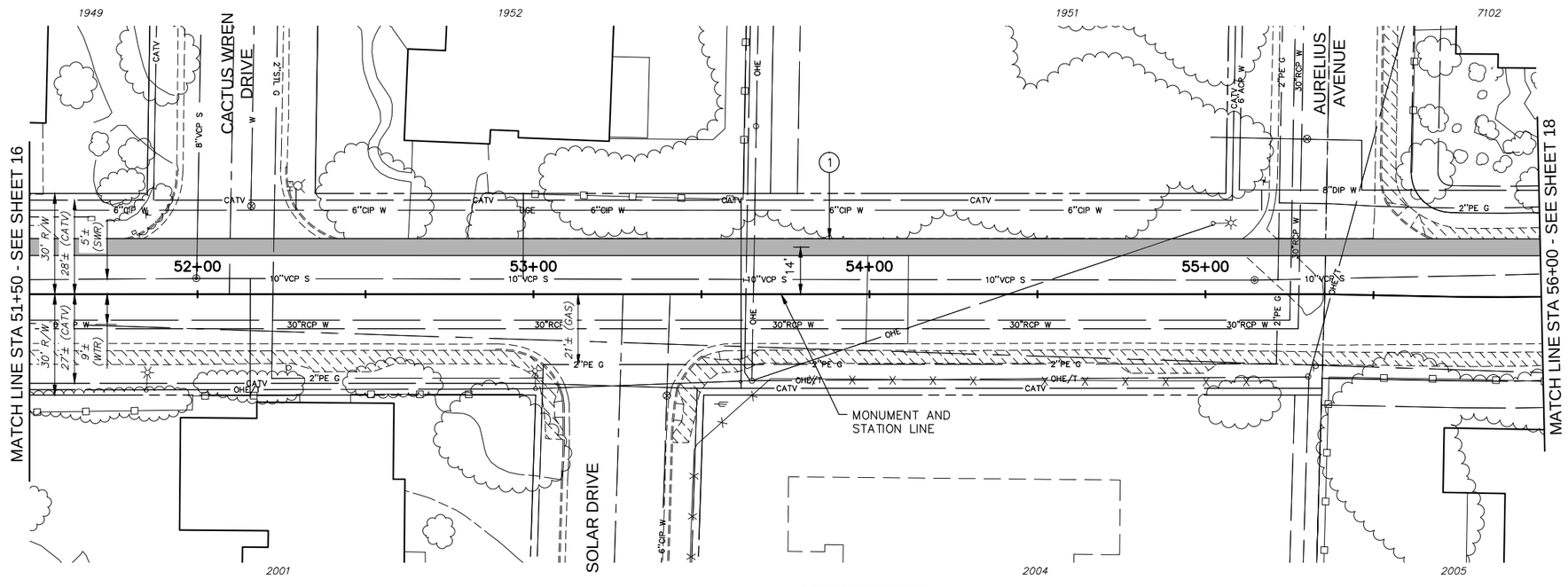

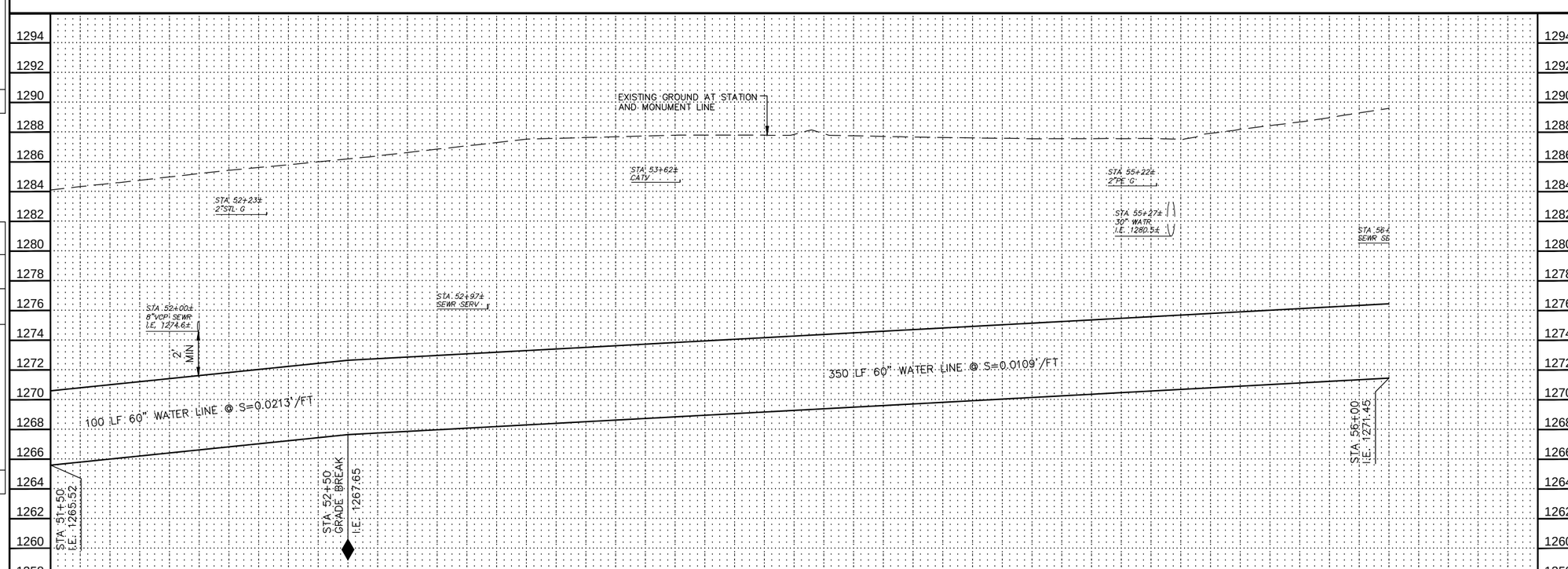

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	17	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX				
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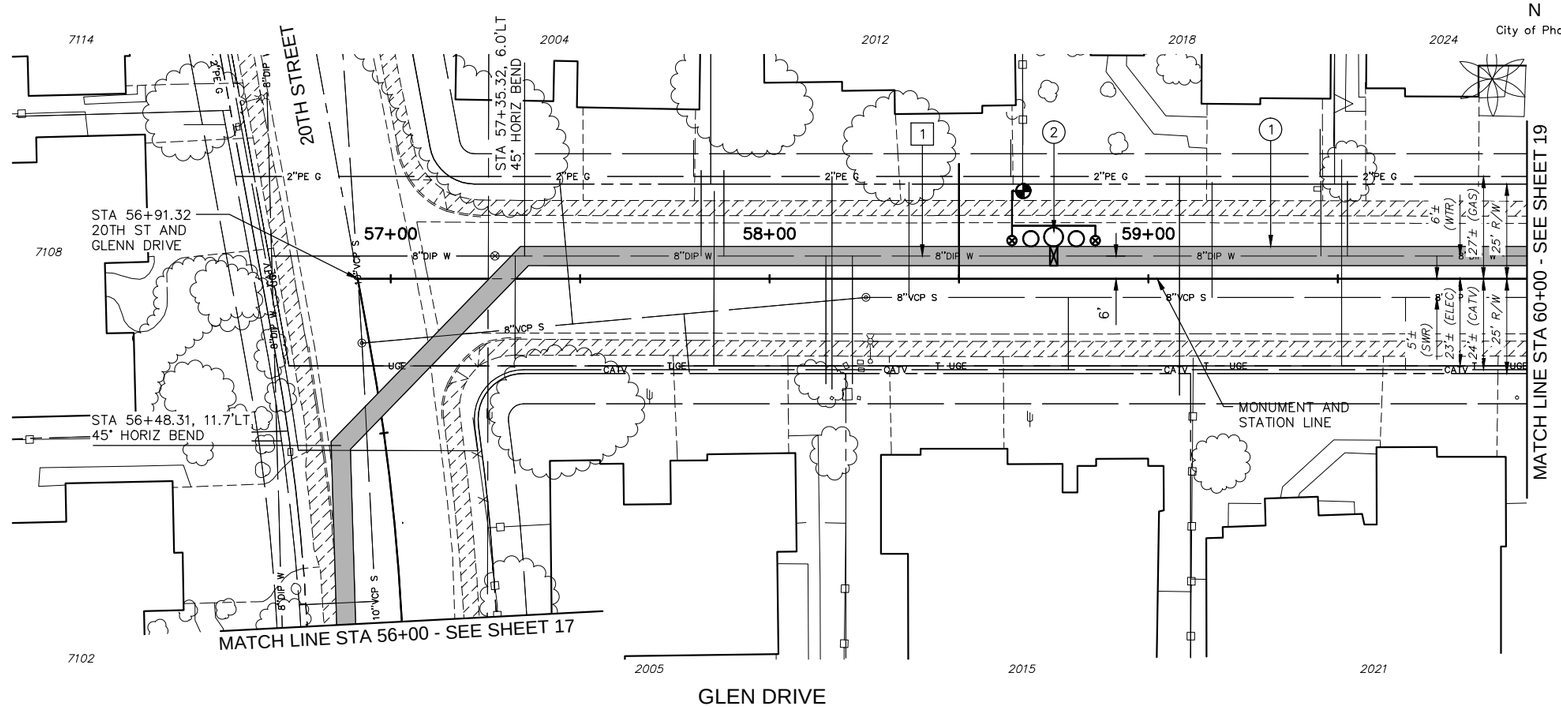
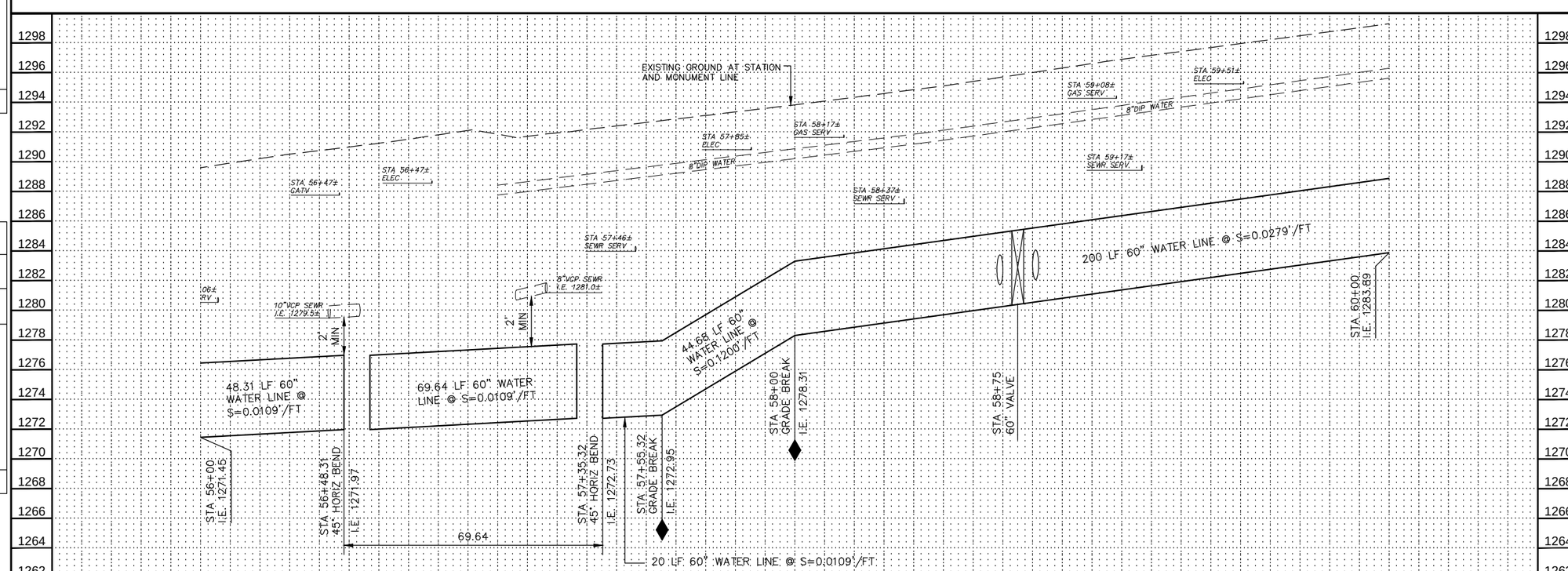
NO.	DESCRIPTION	REV BY	CKD BY	DATE





30%

PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	18	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	383
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	RELOCATE 8" DIP WATER LINE	LF	270

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ARIZONA 811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	18	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	19	117

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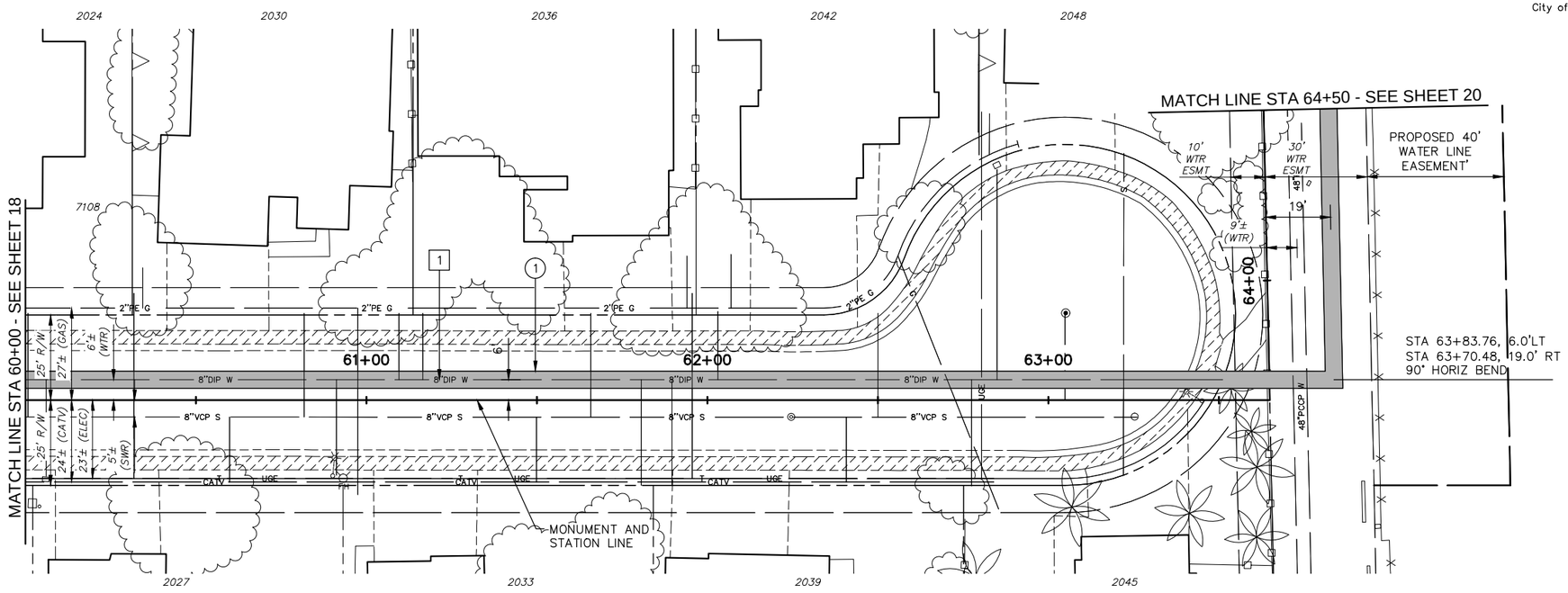

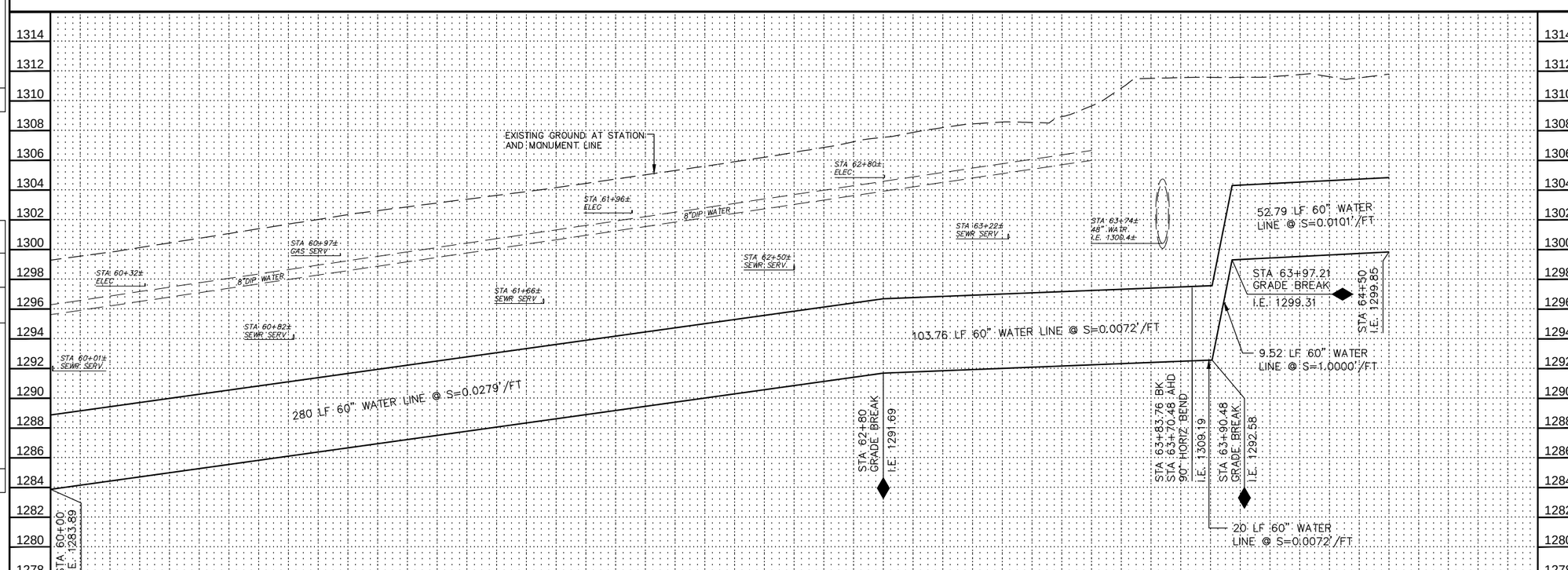

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	466

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	RELOCATE 8" DIP WATER LINE	LF	352

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ARIZONA 811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	19	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	20	117

PEC
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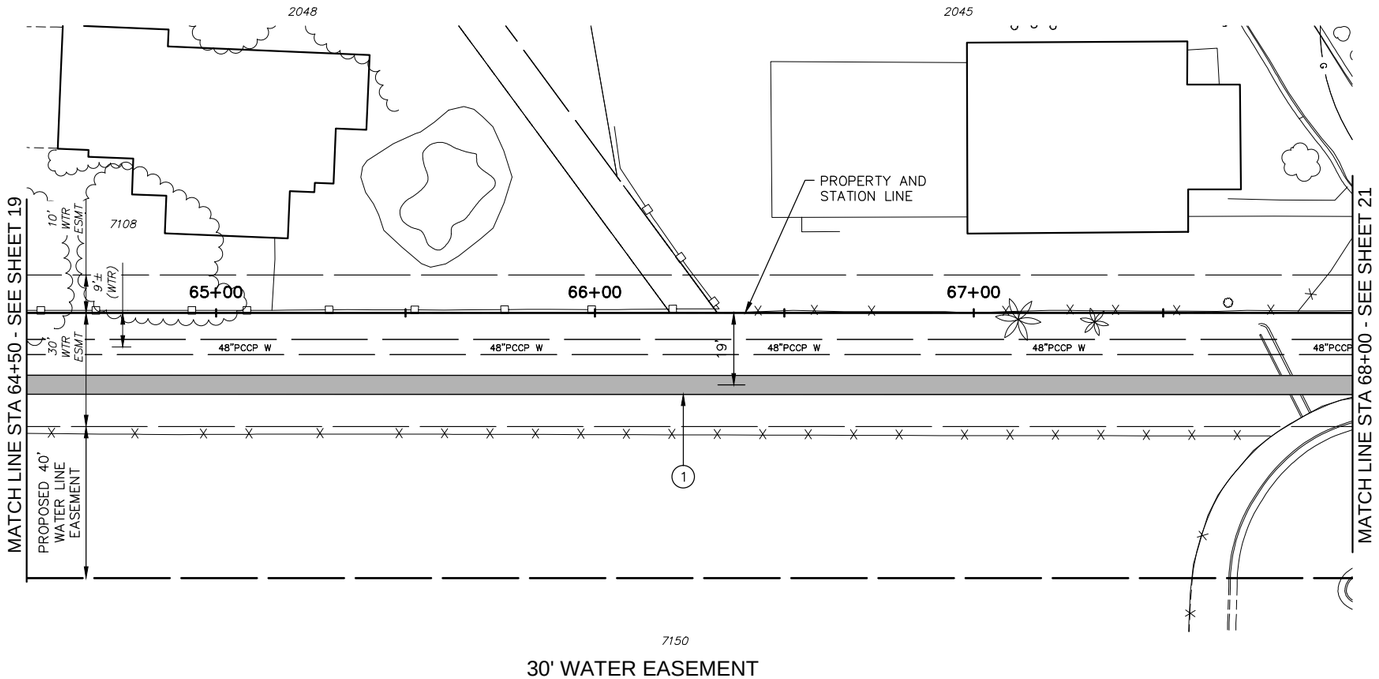
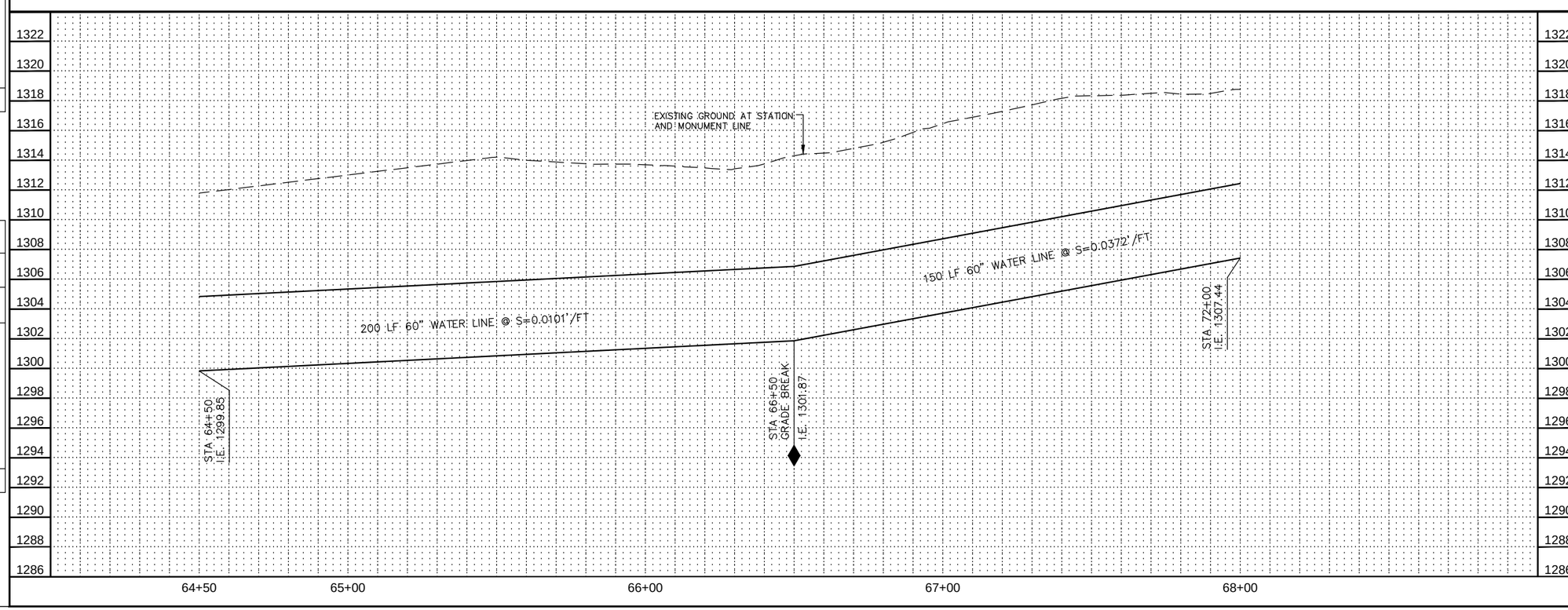
Fax: (602) 906-3080



30' WATER EASEMENT



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	350

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	20	117

SCALE: HORIZ 1"=20' VERT 1"= 4'

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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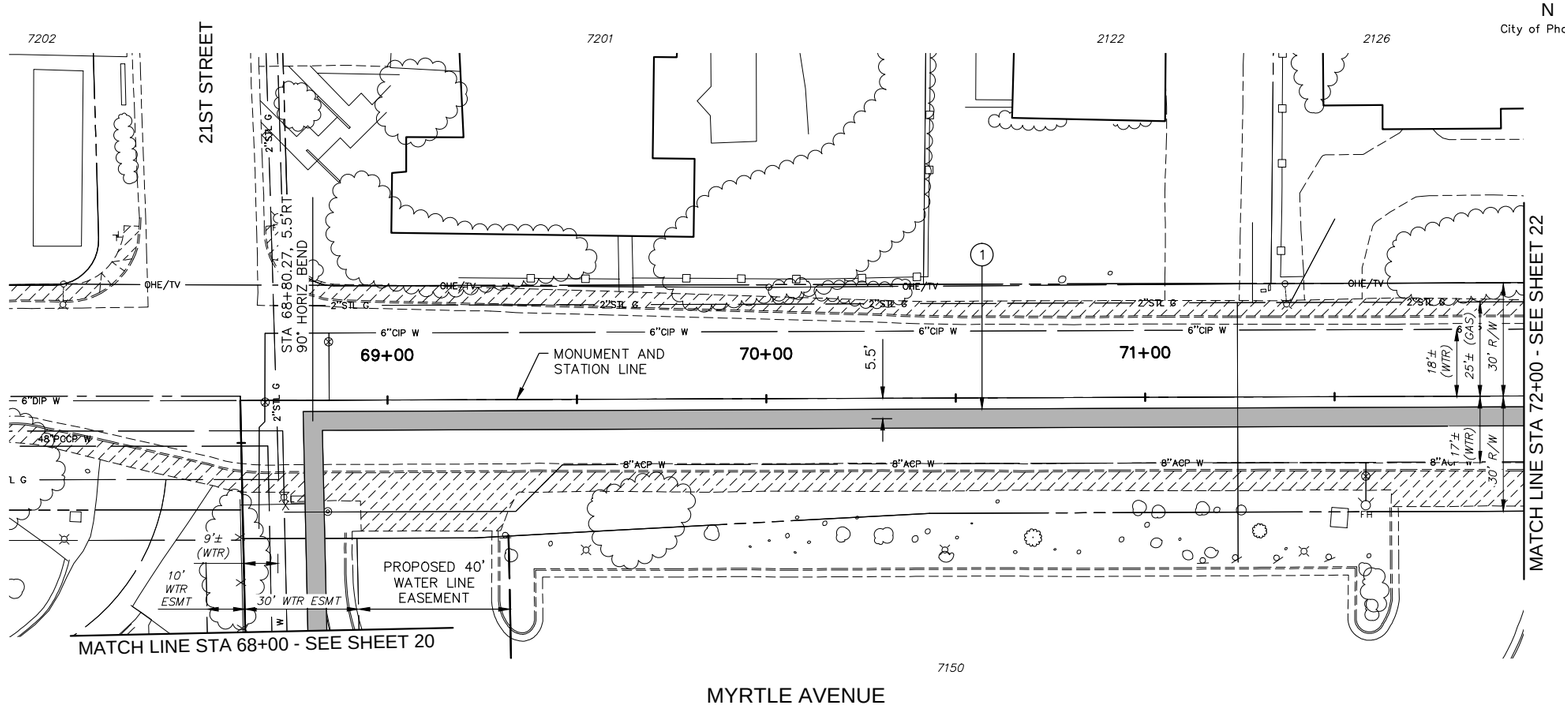

N
City of Phoenix

30%
PRELIMINARY
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	21	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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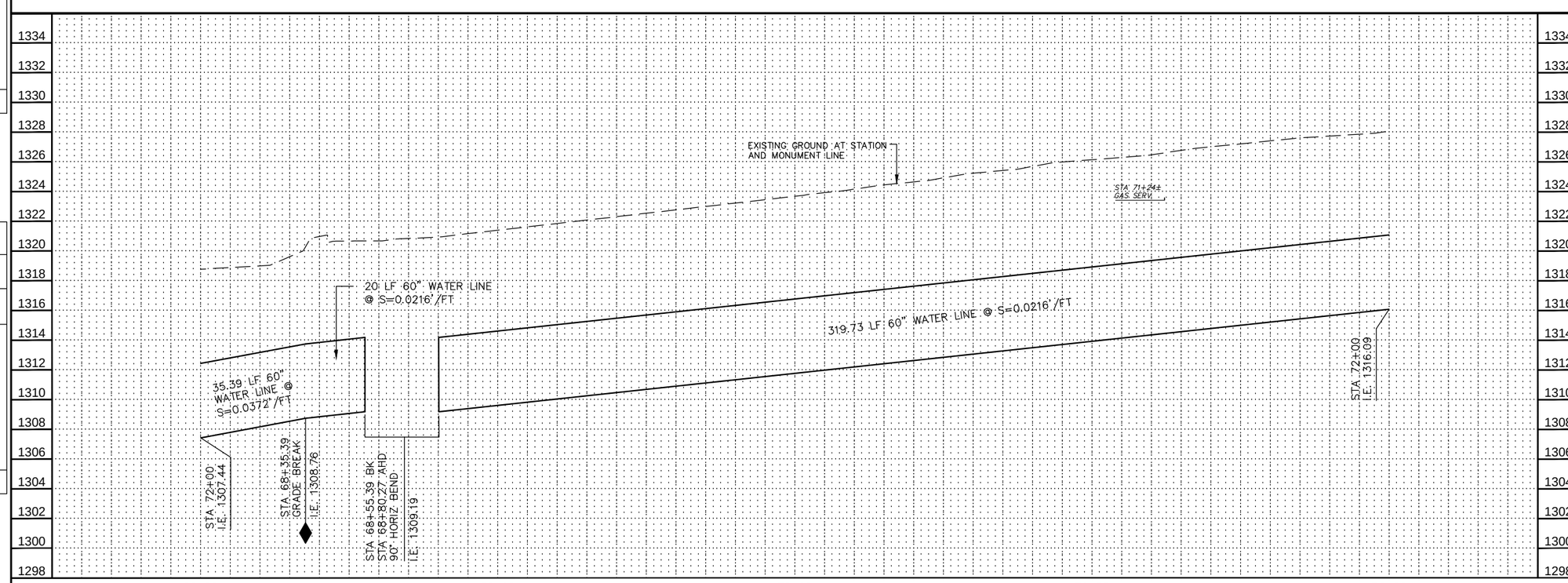
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	376



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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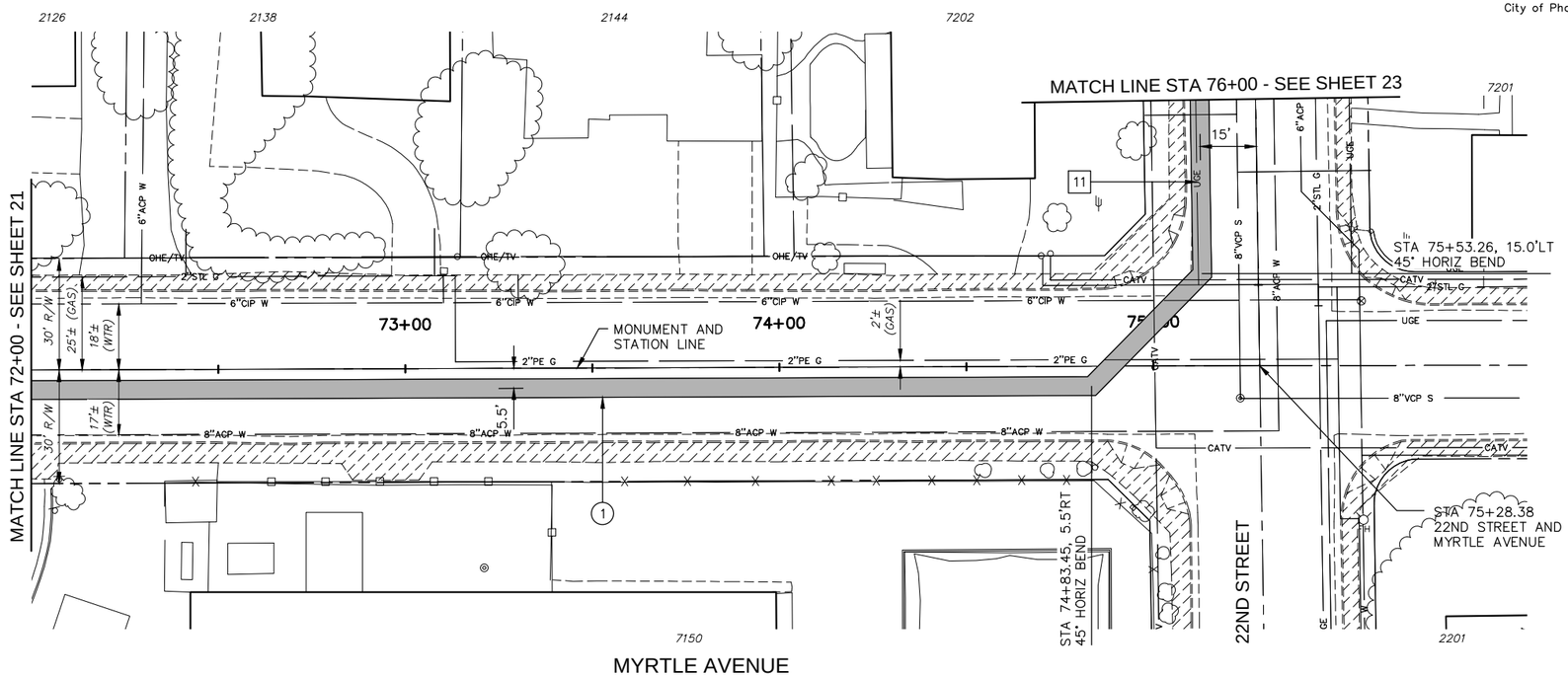
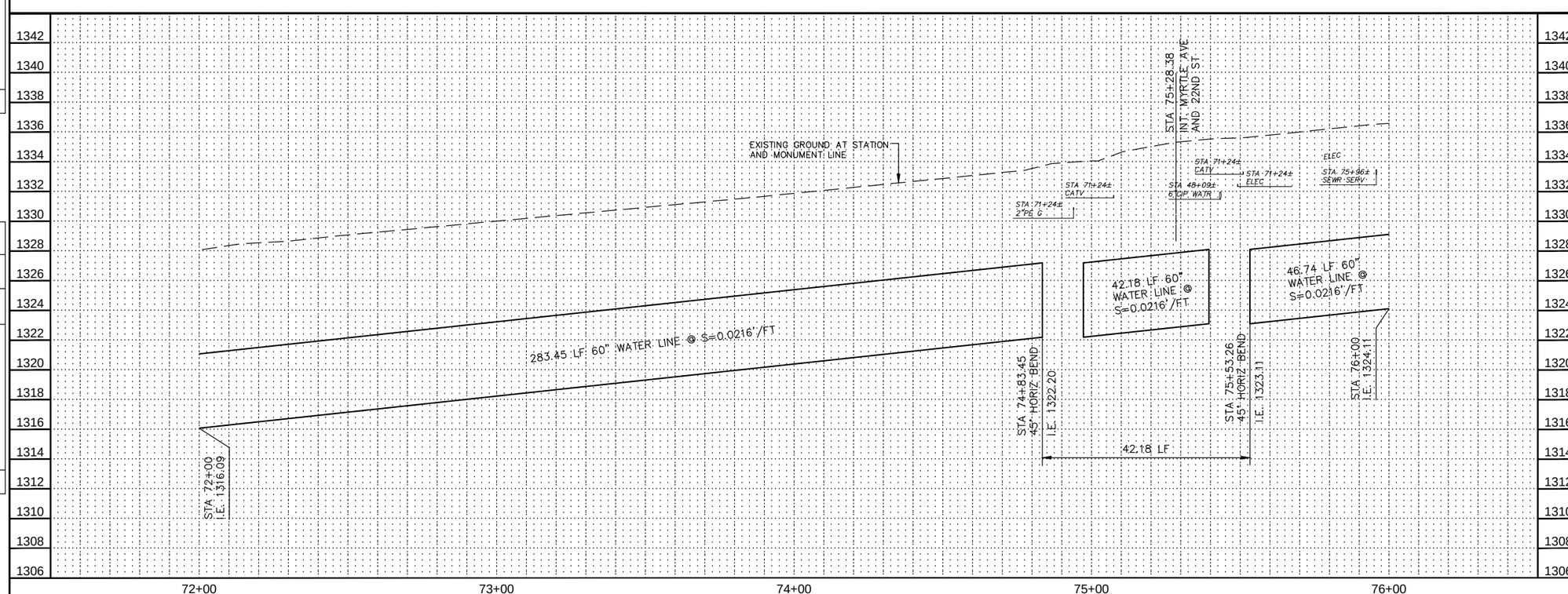
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





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N
City of Phoenix

30%

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NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	22	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	373

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	50

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	22	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	23	117

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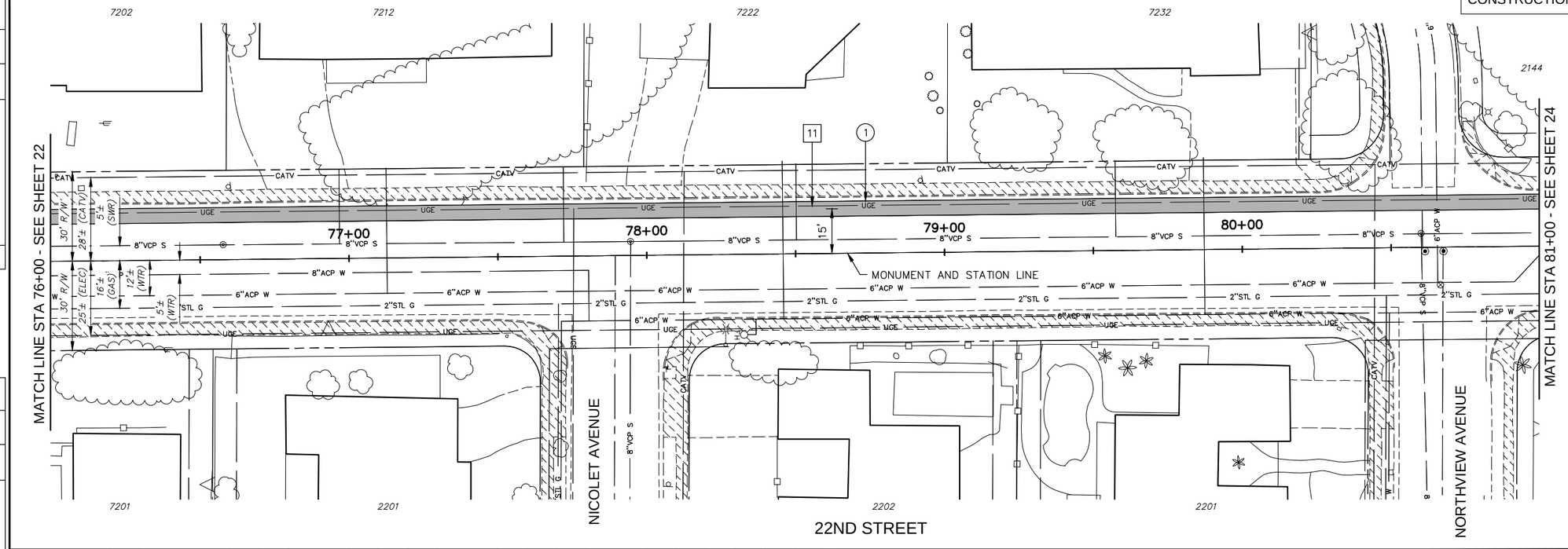

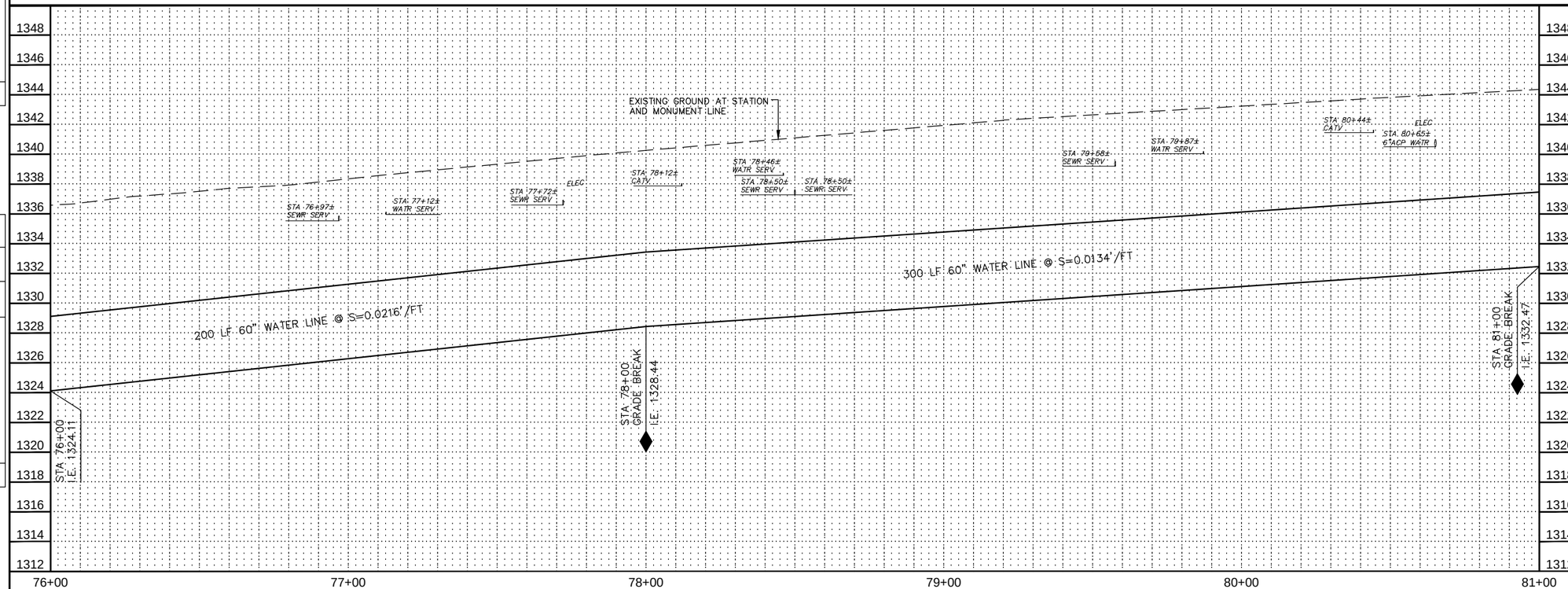

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	500

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			23	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	24	117

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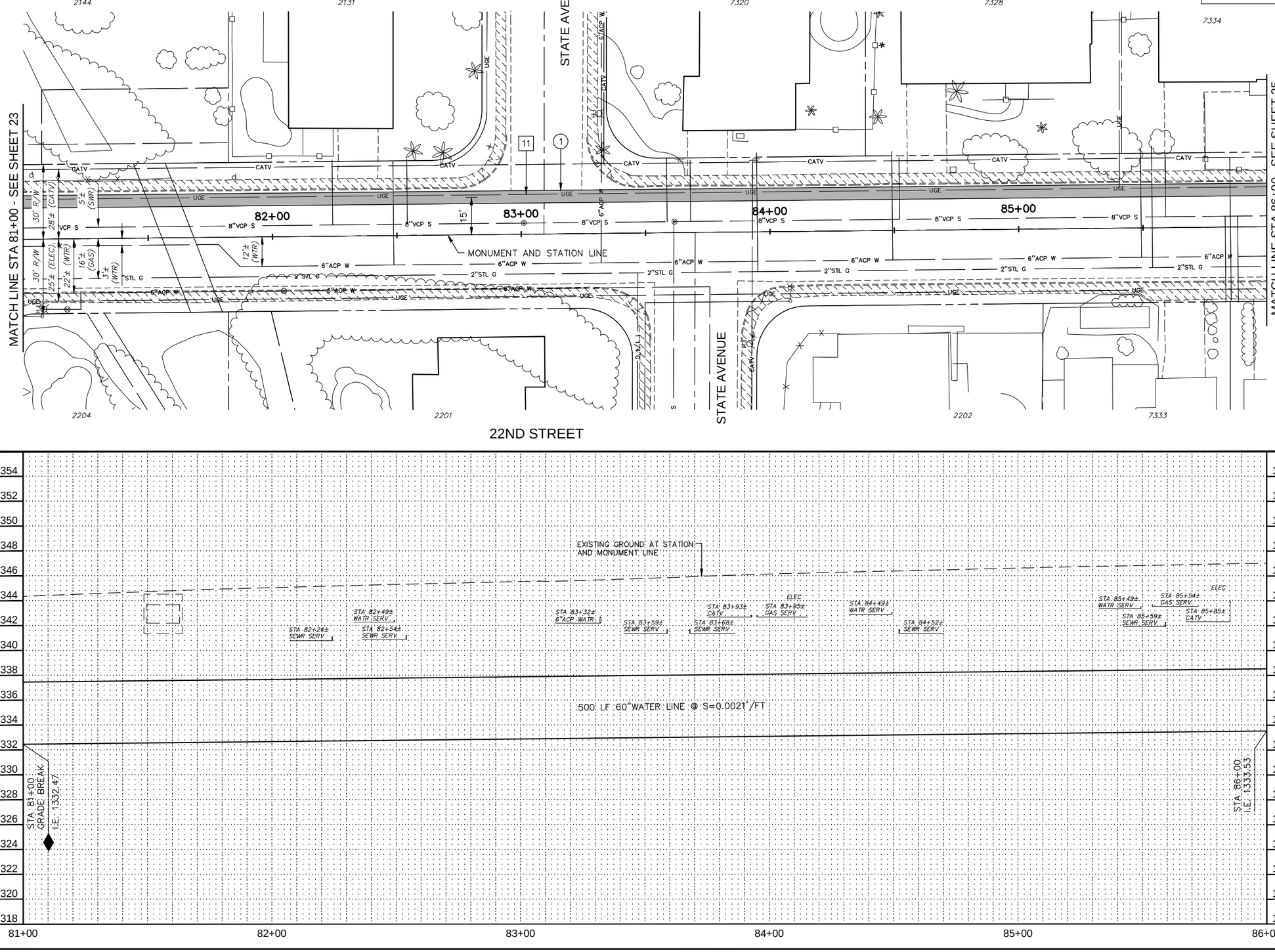

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	500

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			24	117

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	25	117

PEC
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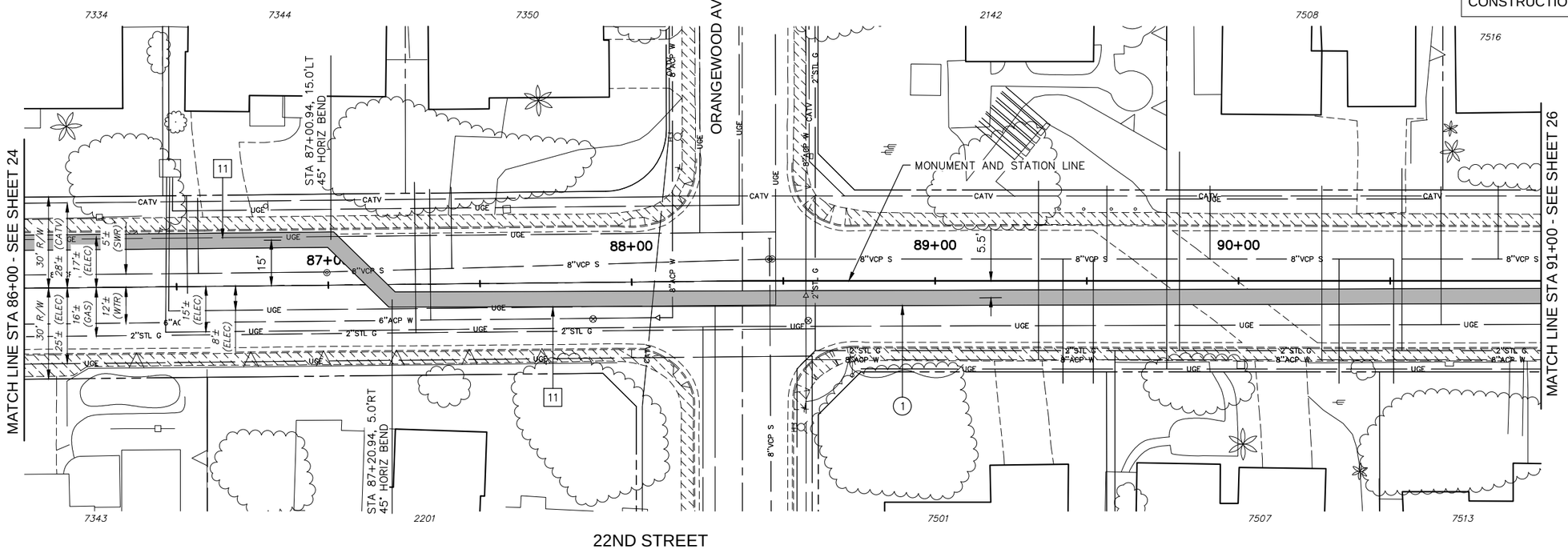

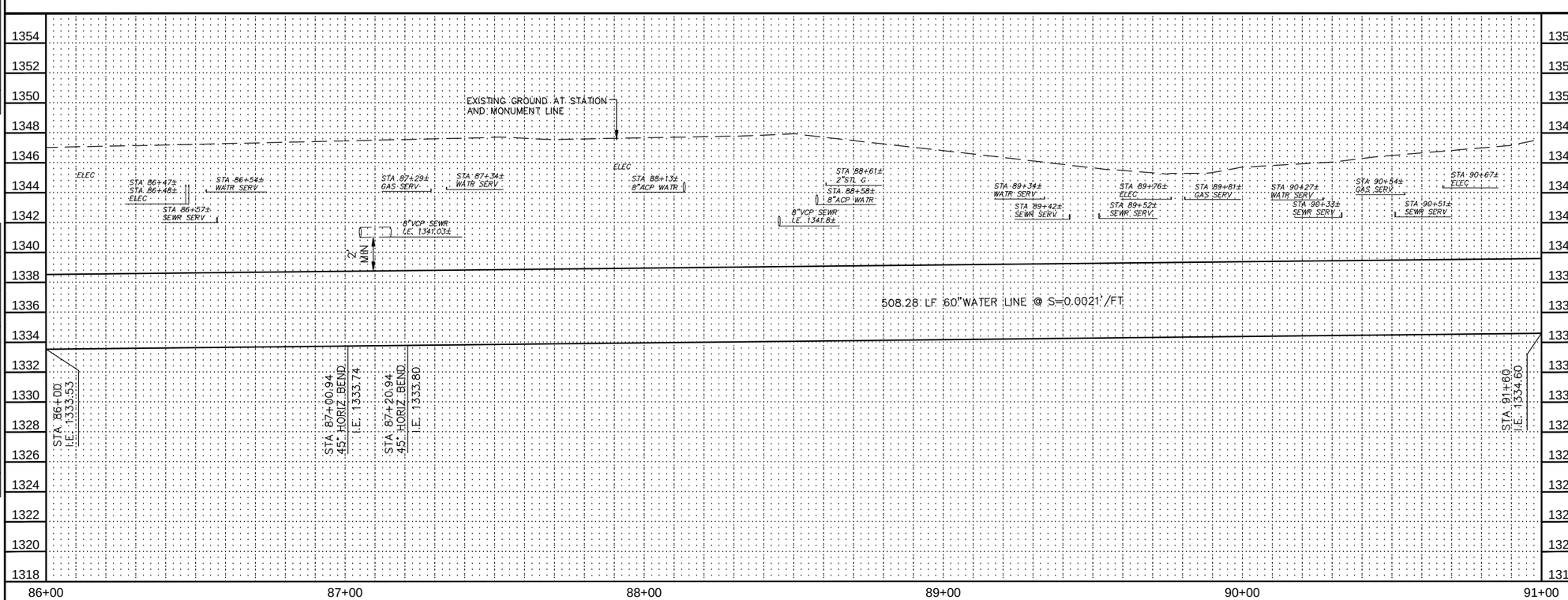

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	509

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	232

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	25	117

SCALE: HORIZ 1"=20' VERT 1"= 4'

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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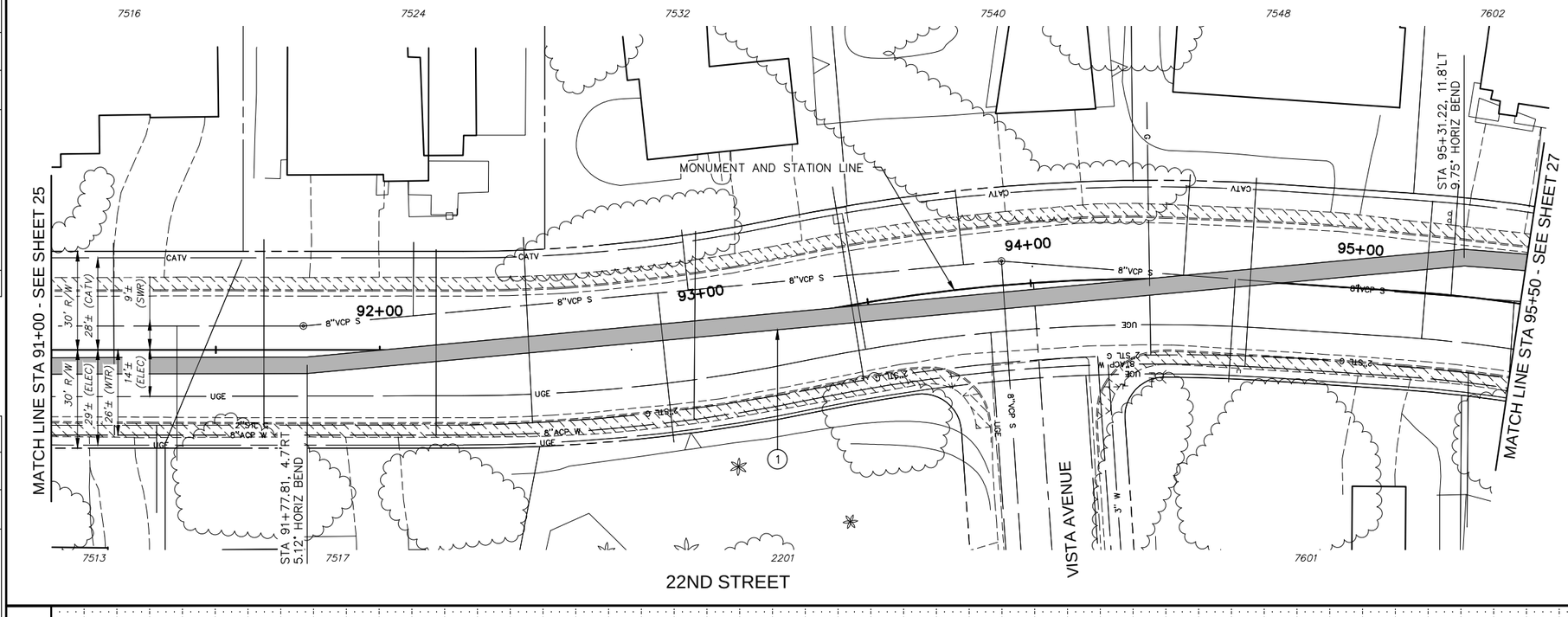
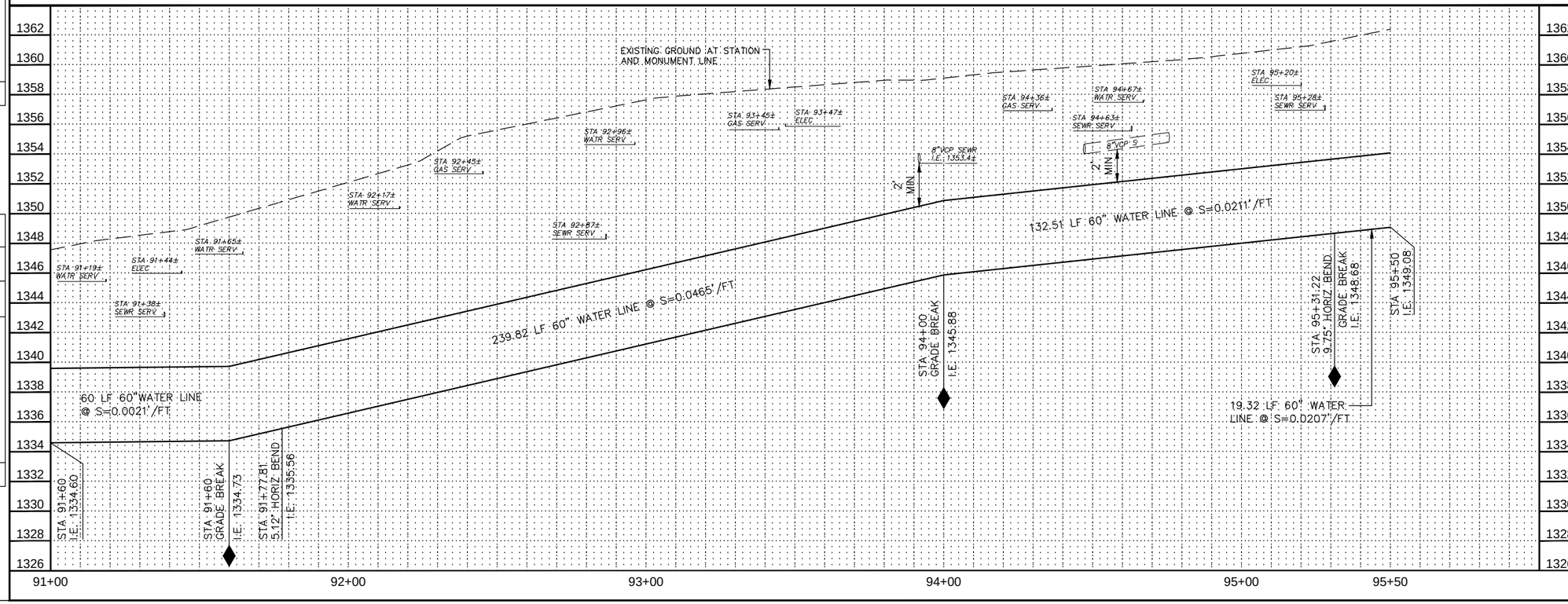
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	452





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			26	117

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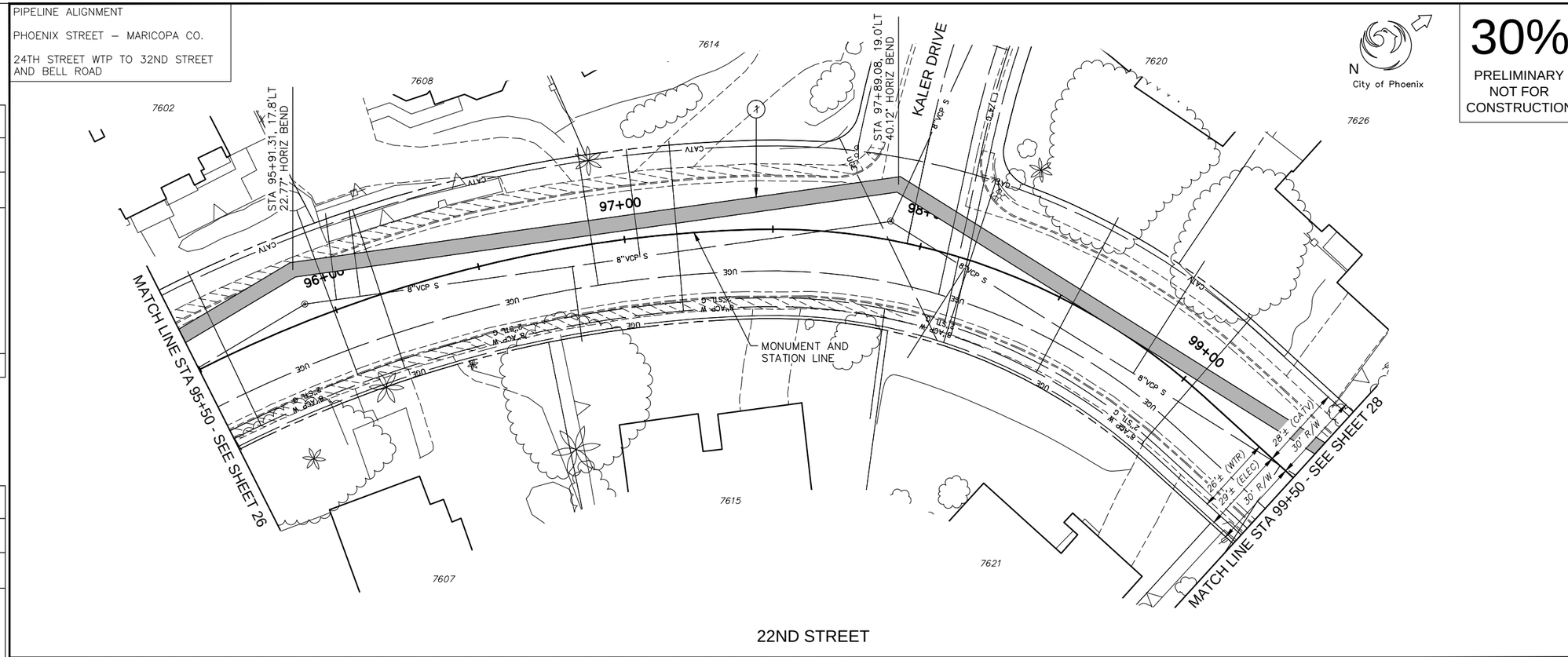
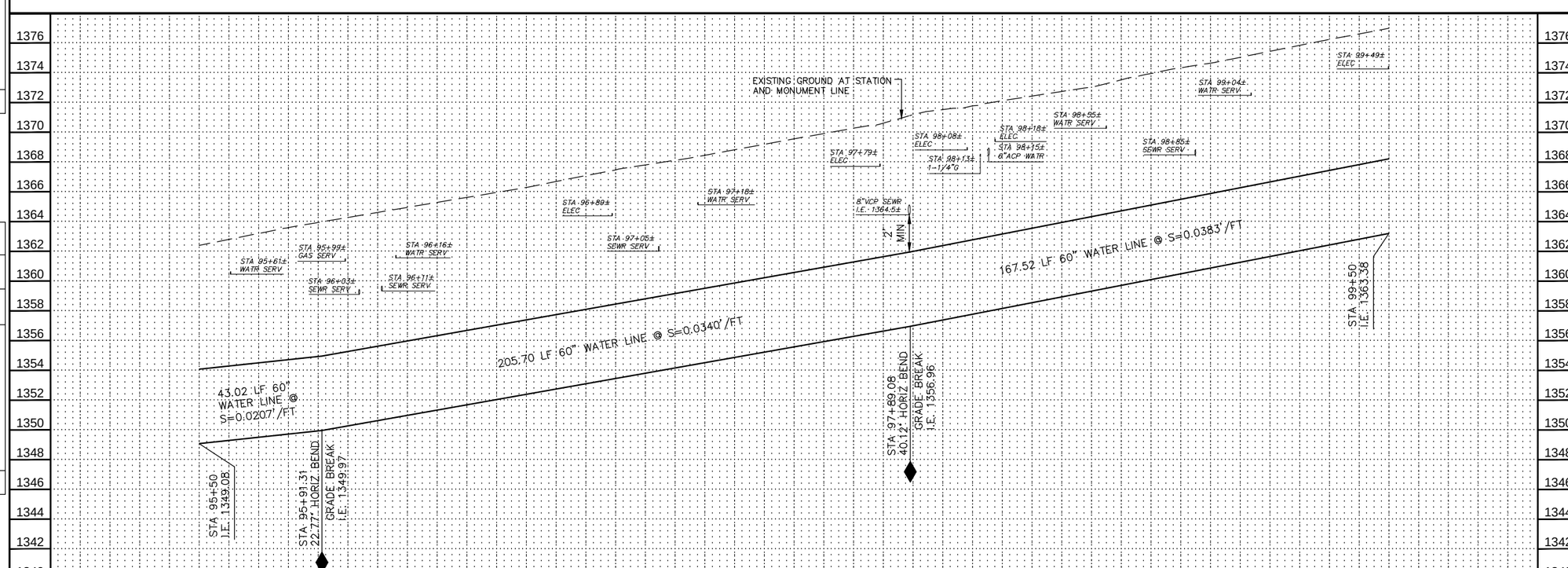
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





30%

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CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	27	117

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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	417

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	27	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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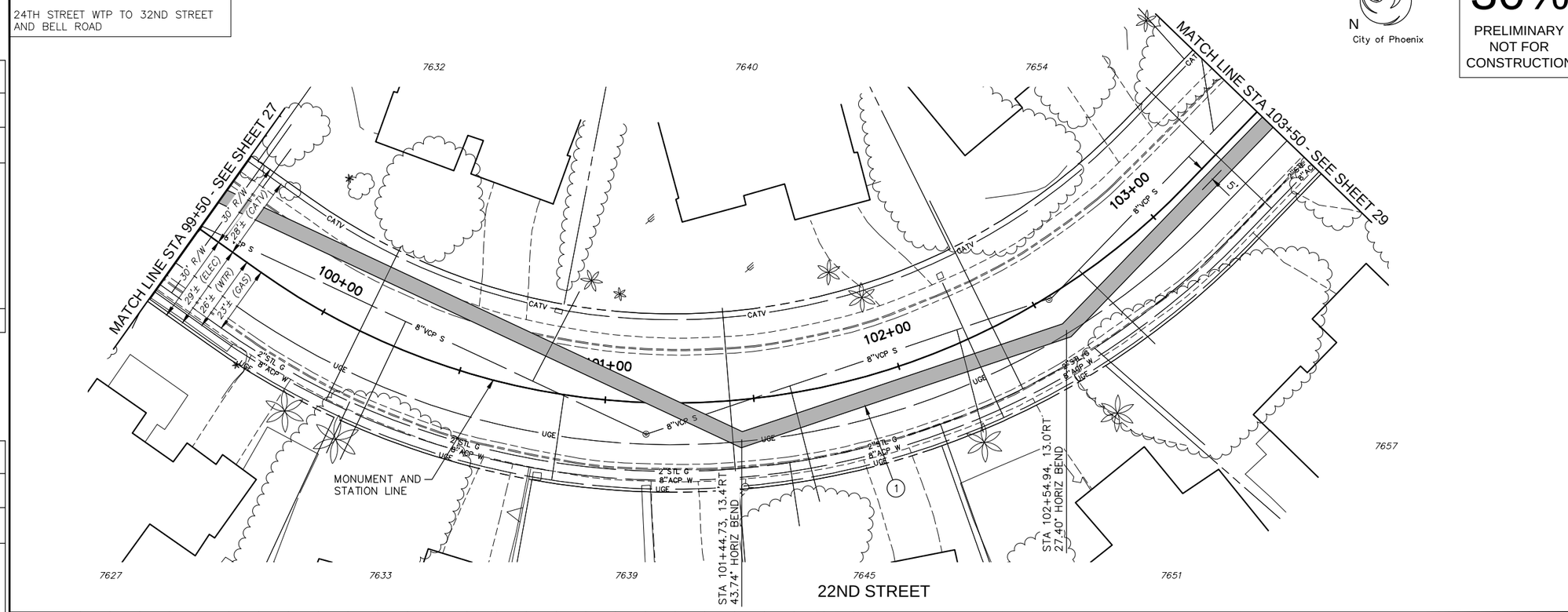
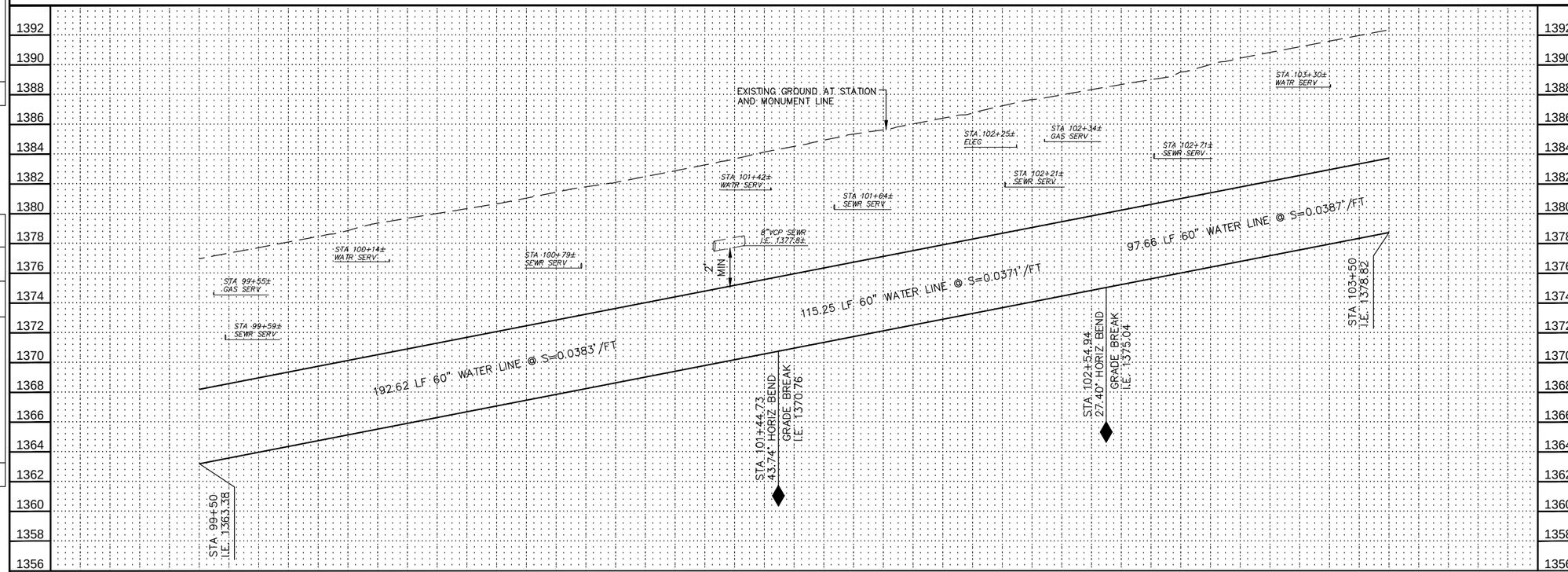
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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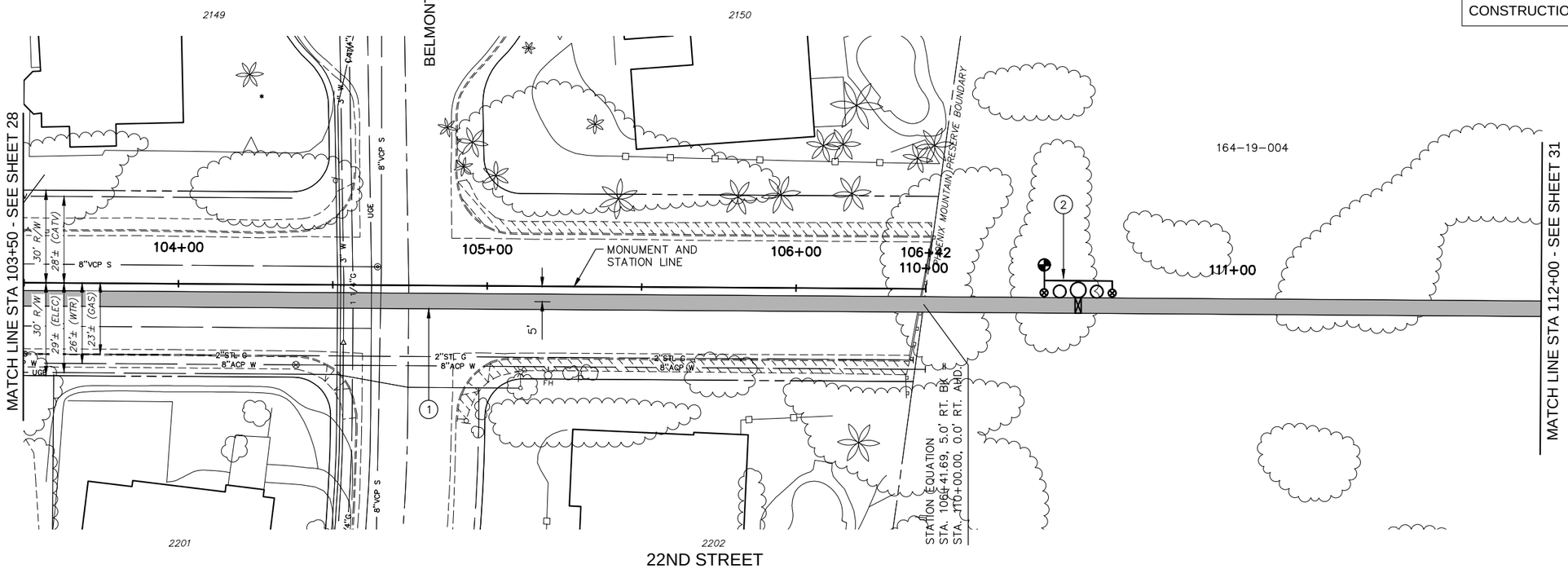
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



SEE SHEET 30 FOR PROFILE

103+50 104+00 105+00 106+00 111+00 112+00

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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	492
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	29	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

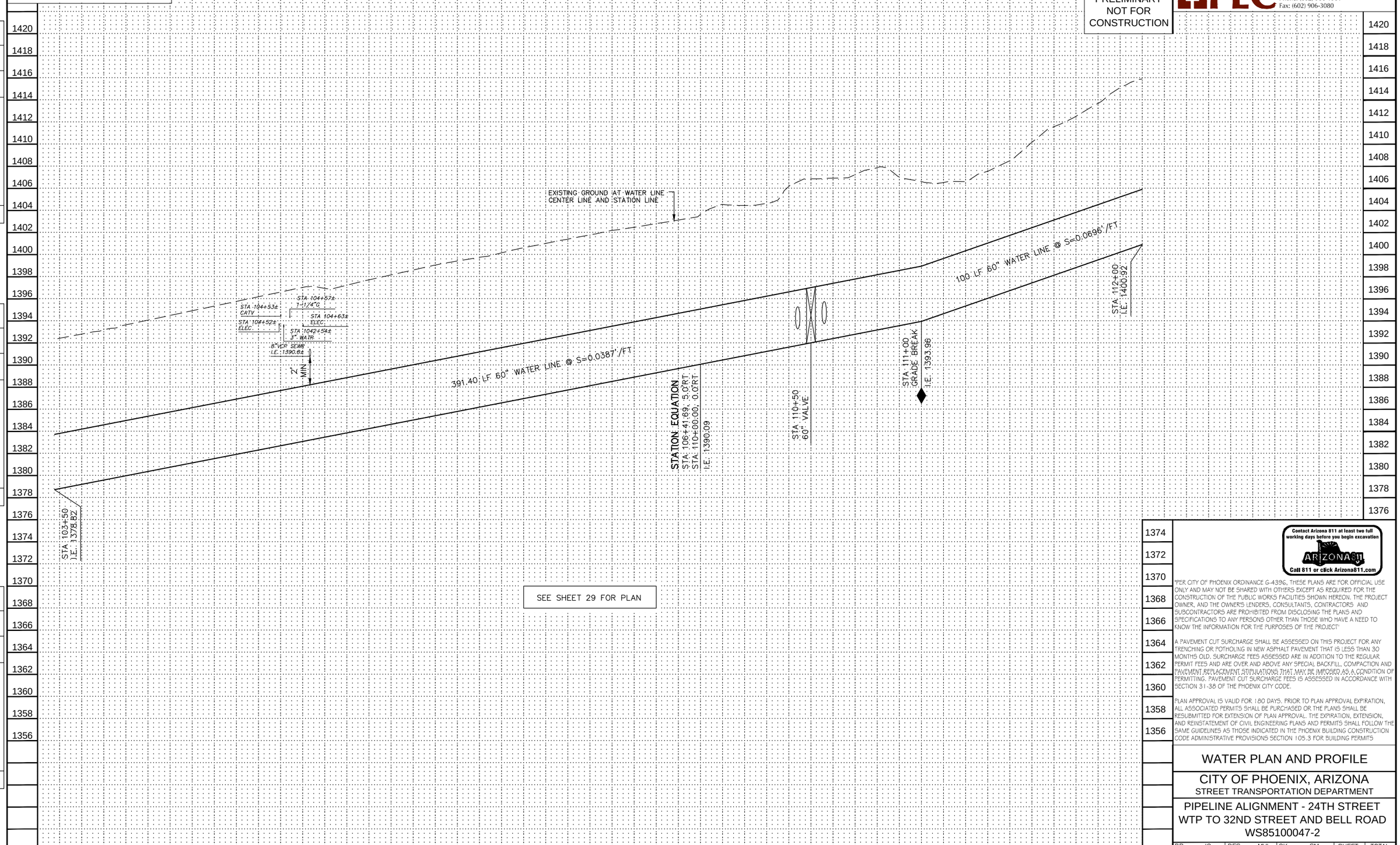
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	30	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	30	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

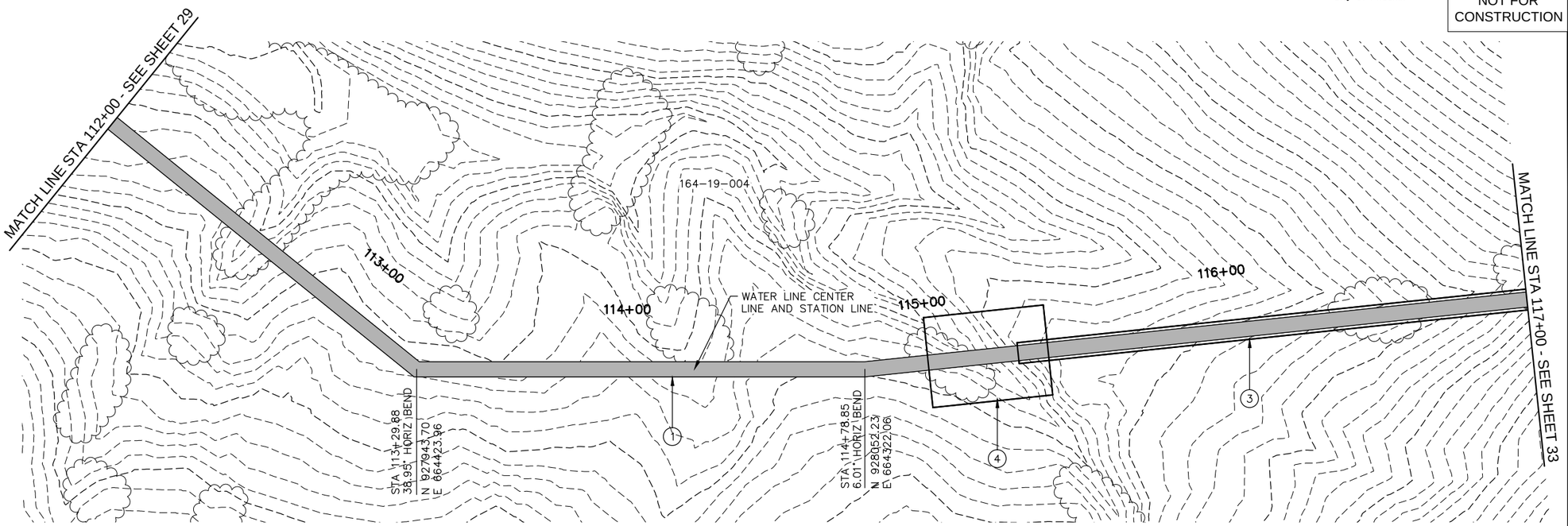
City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	31	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



PHOENIX MOUNTAIN PRESERVE

SEE SHEET 32 FOR PROFILE

112+00 113+00 114+00 115+00 116+00 117+00

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
3	INSTALL 84" STEEL CASING	LF	170
4	JACKING / RECEIVING PIT		

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	31	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	32	117

PEC
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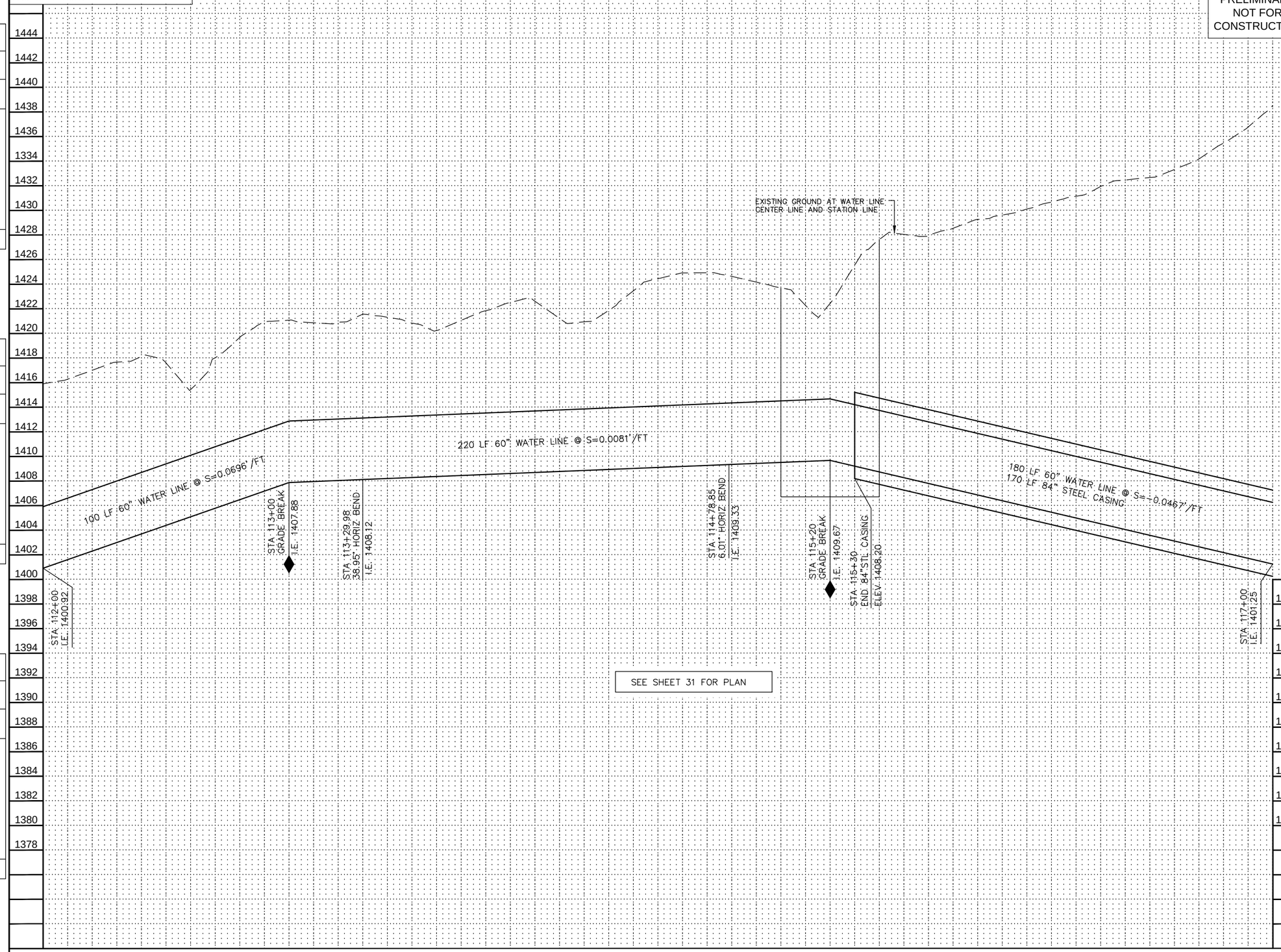

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REVISION BY CITY OF PHOENIX

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			32	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	33	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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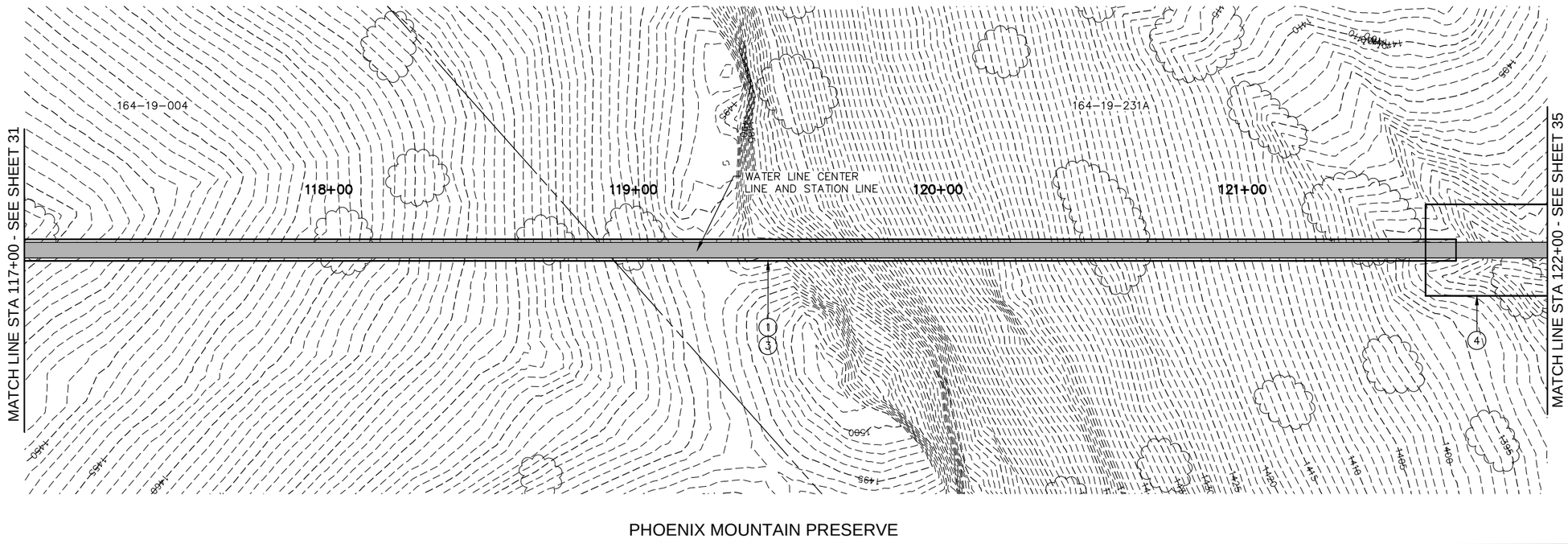
Fax: (602) 906-3080



SEE SHEET 34 FOR PROFILE

117+00 118+00 119+00 120+00 121+00 122+00

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
3	INSTALL 84" STEEL CASING	LF	470
4	JACKING / RECEIVING PIT		

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			33	117

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	34	117

30%

PRELIMINARY NOT FOR CONSTRUCTION

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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Fax: (602) 906-3080

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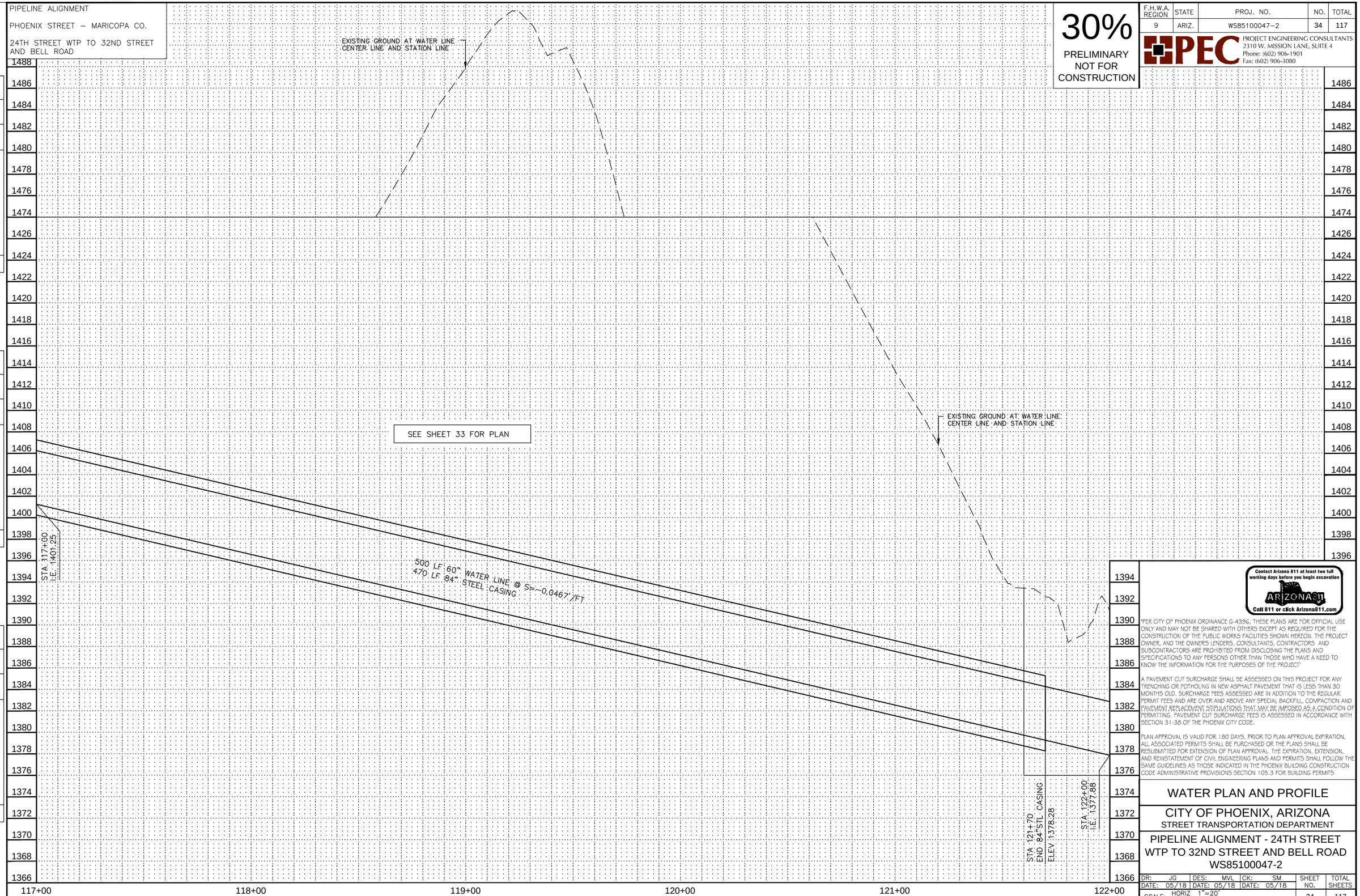

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			34	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	35	117

PEC
PROJECT ENGINEERING CONSULTANTS
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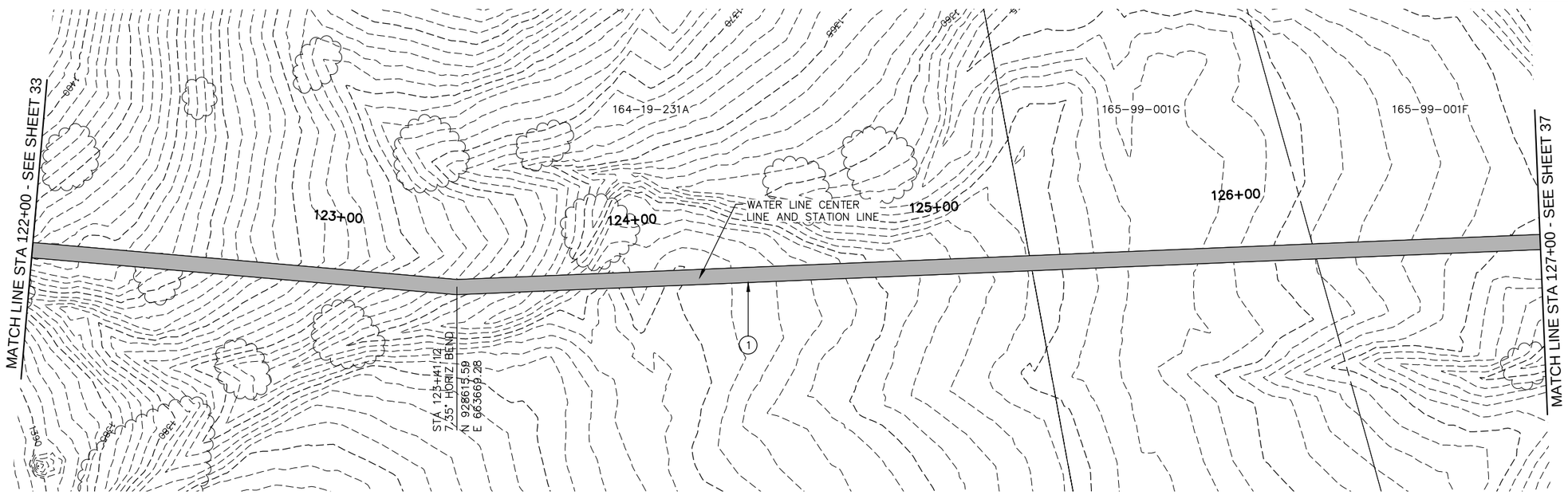
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



SEE SHEET 36 FOR PROFILE

122+00 123+00 124+00 125+00 126+00 127+00

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			35	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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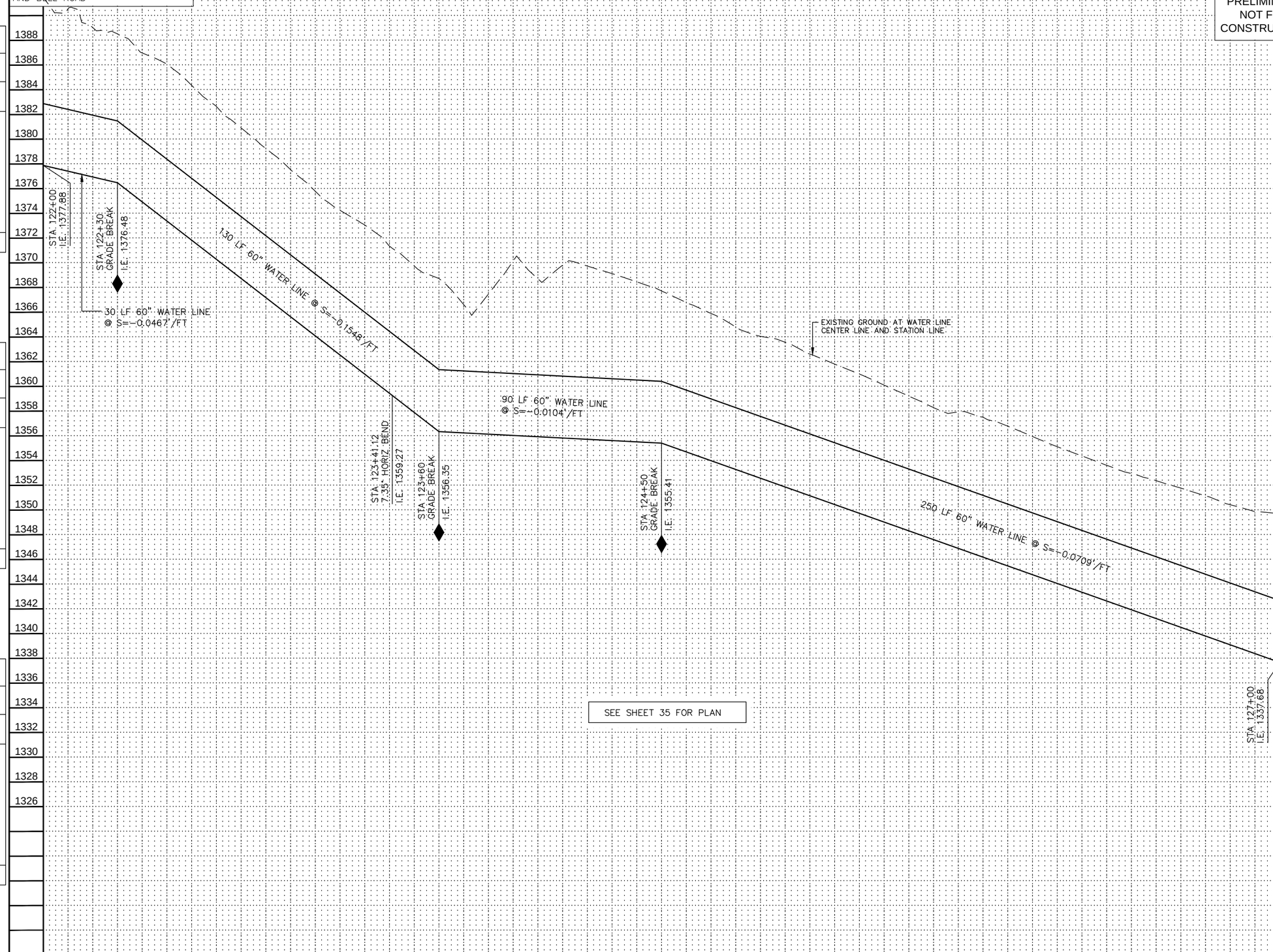

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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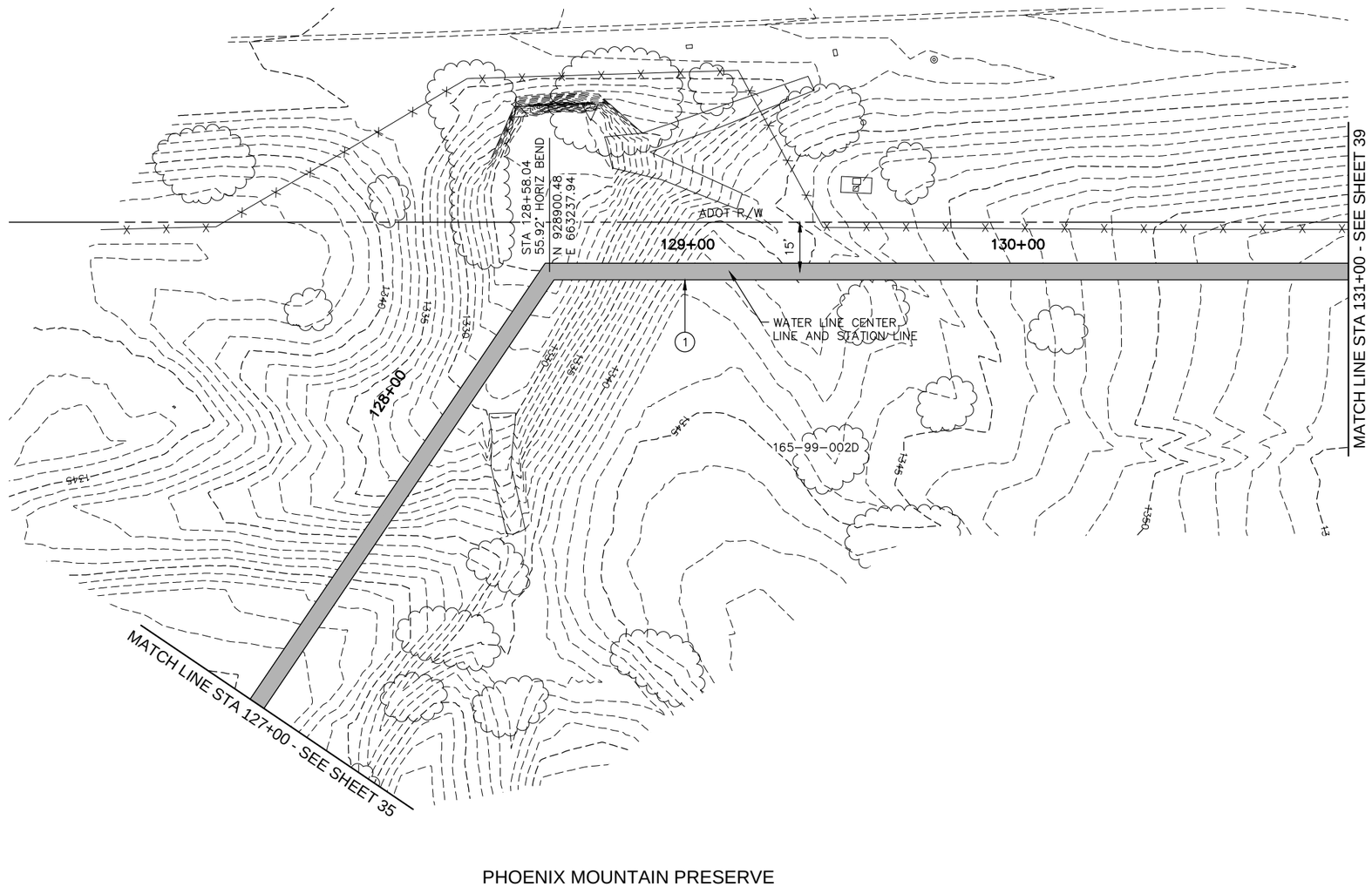

SEE SHEET 38 FOR PROFILE

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
	INSTALL 60" WATER LINE	LF	400

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click Arizona811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			37	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

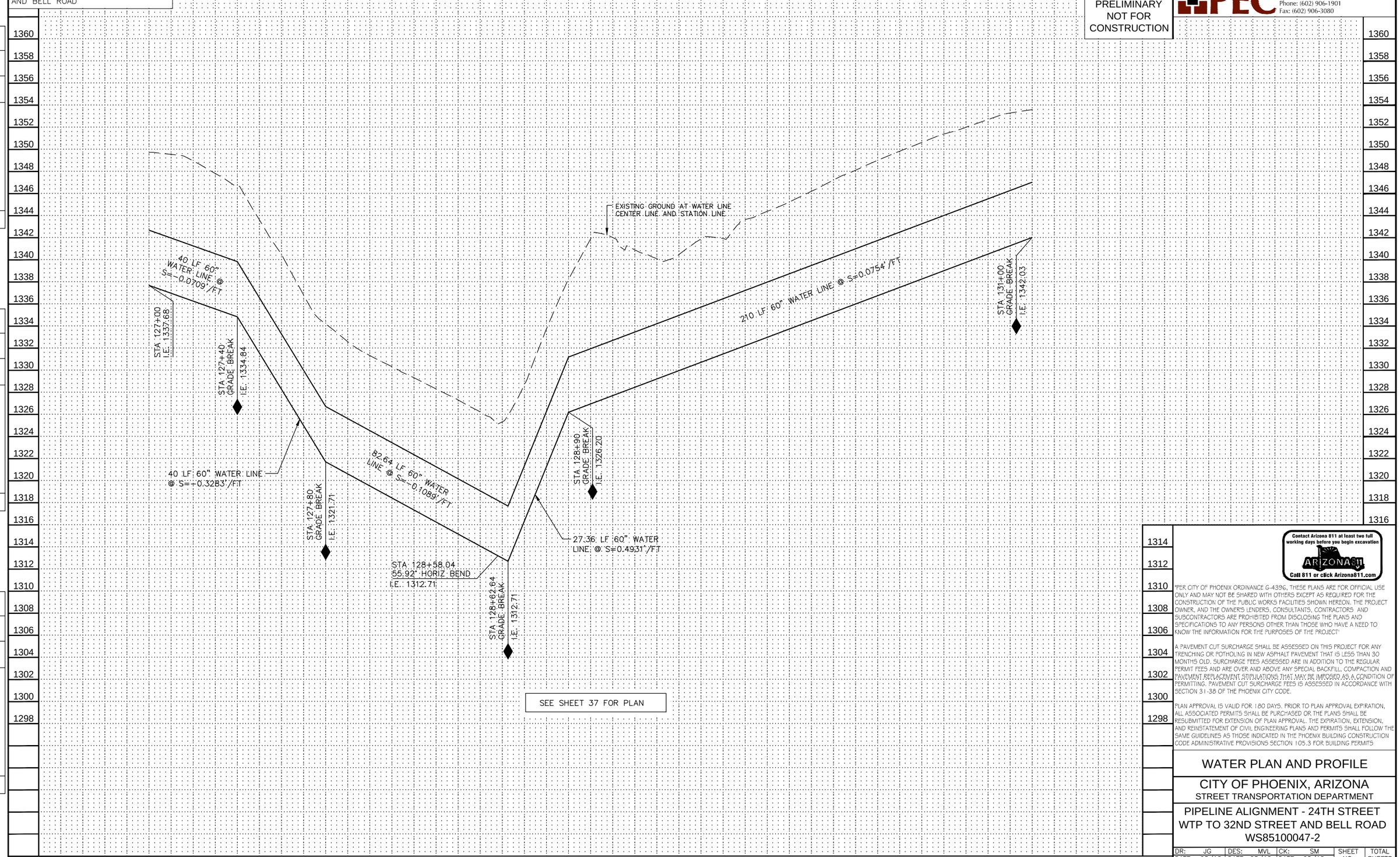
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	38	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



SEE SHEET 37 FOR PLAN

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			38	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

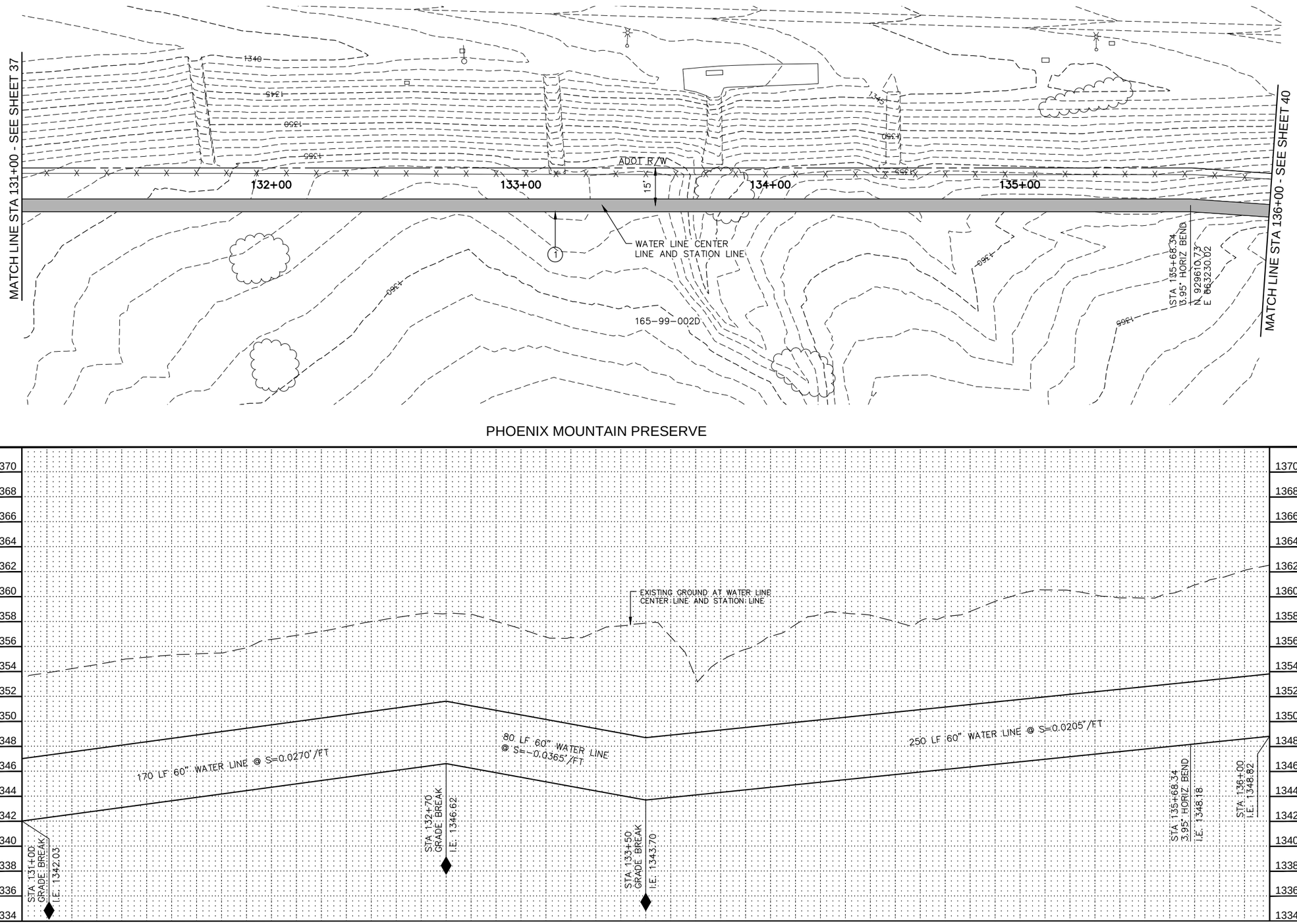
City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	39	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	39	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

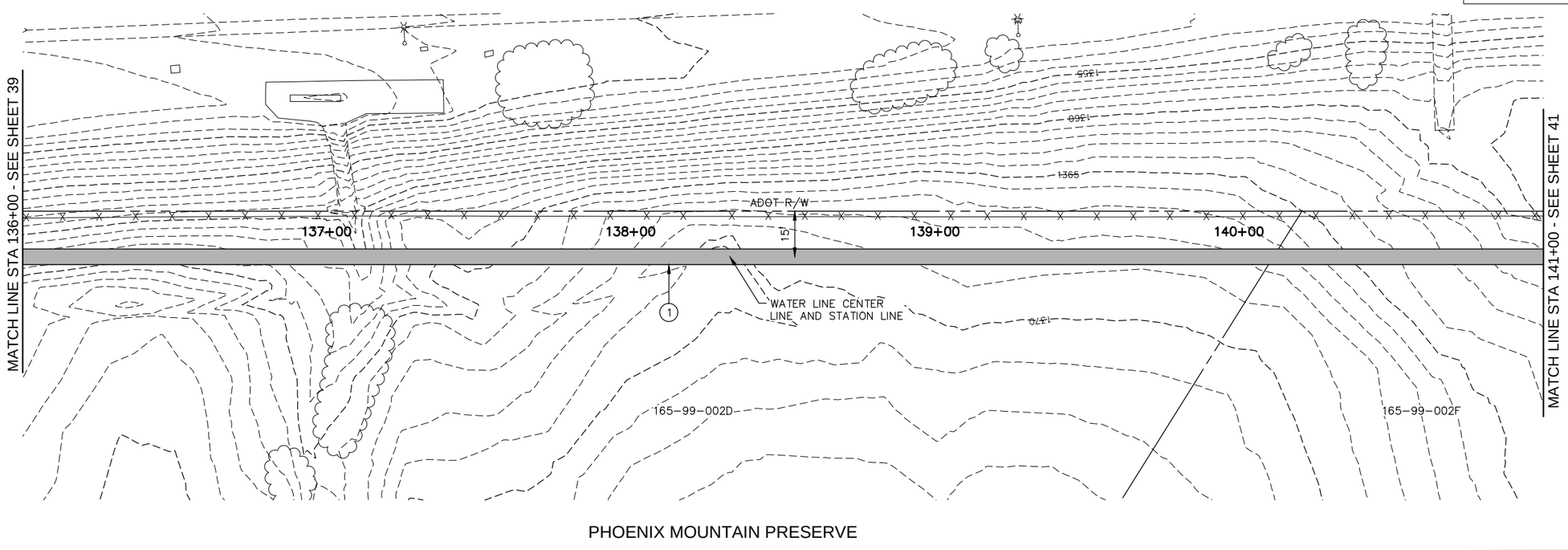
PRELIMINARY NOT FOR CONSTRUCTION

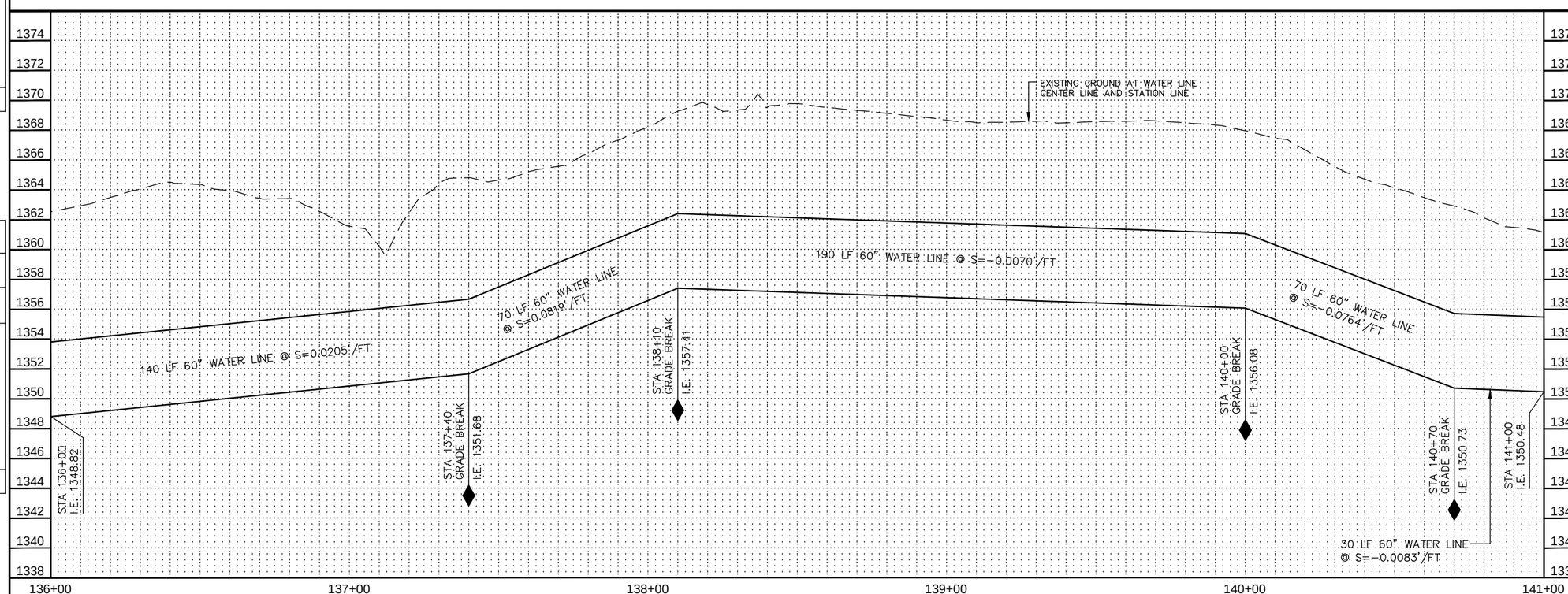
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	40	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			40	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	41	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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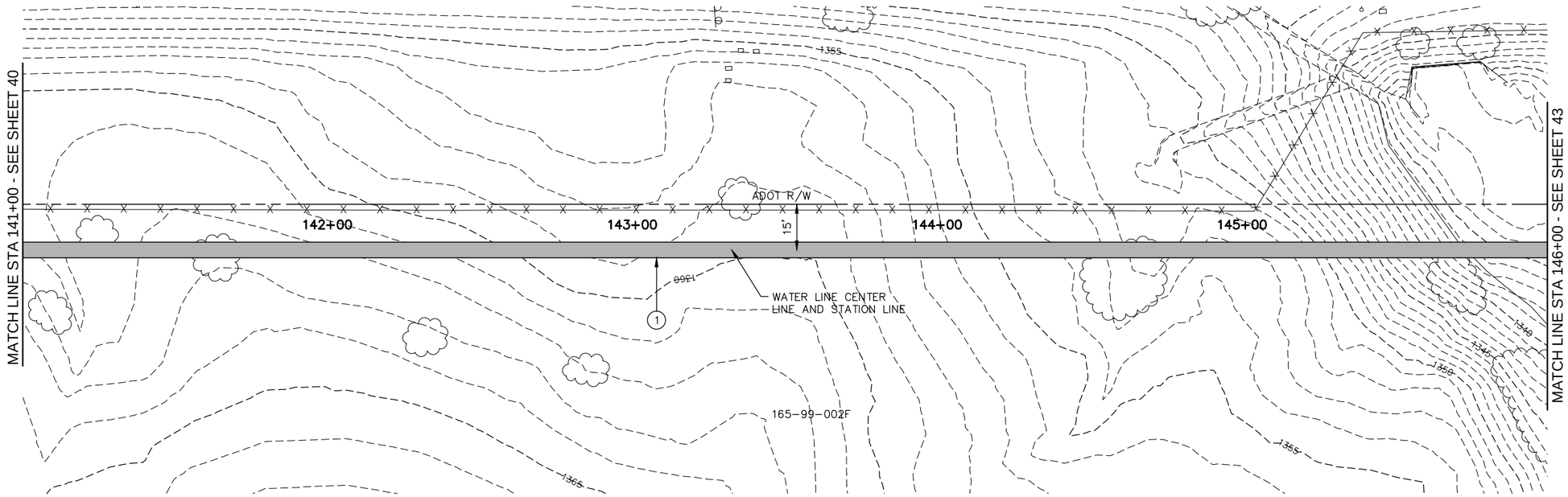

PHOENIX MOUNTAIN PRESERVE

SEE SHEET 42 FOR PROFILE

141+00 142+00 143+00 144+00 145+00 146+00

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			41	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

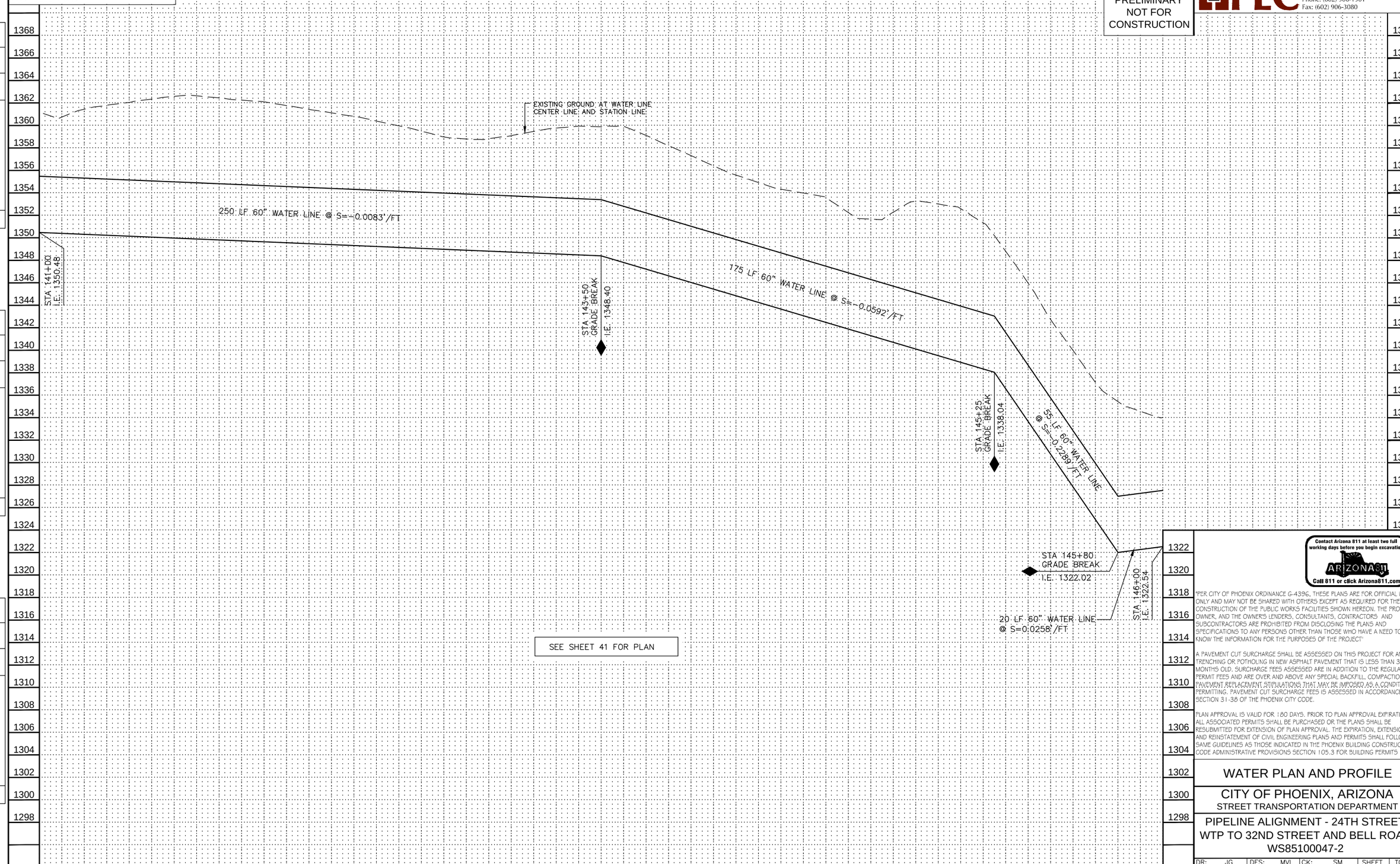
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	42	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	42	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

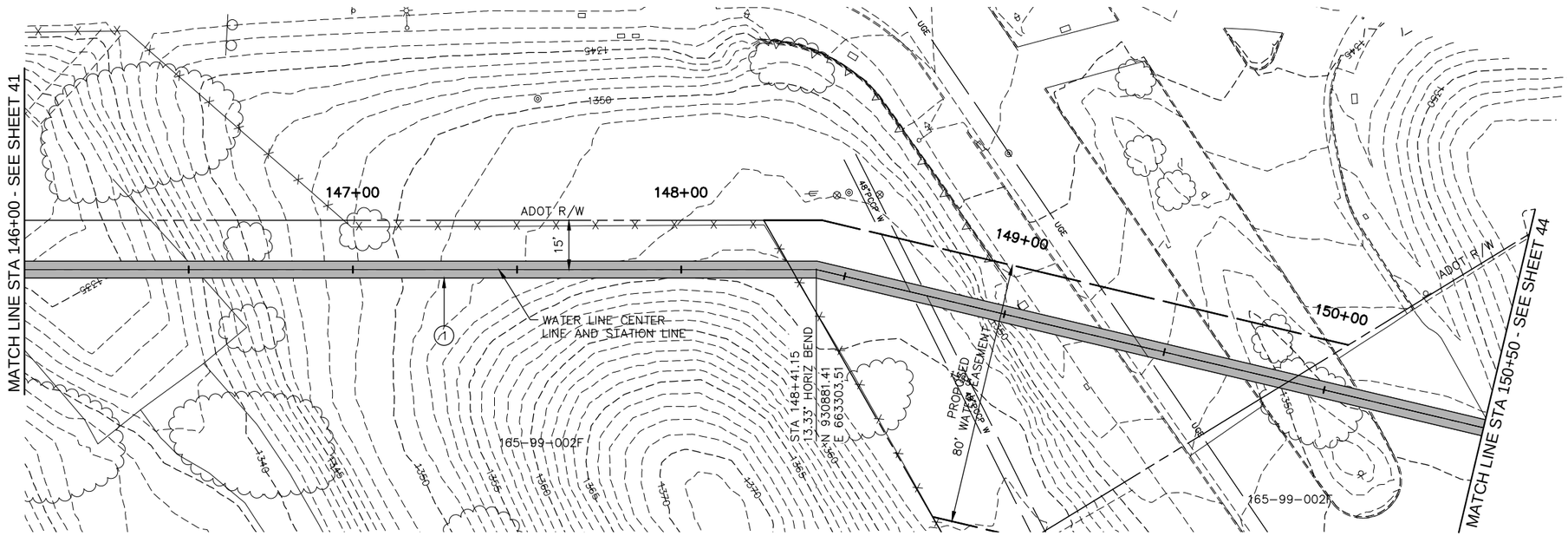
City of Phoenix

30%

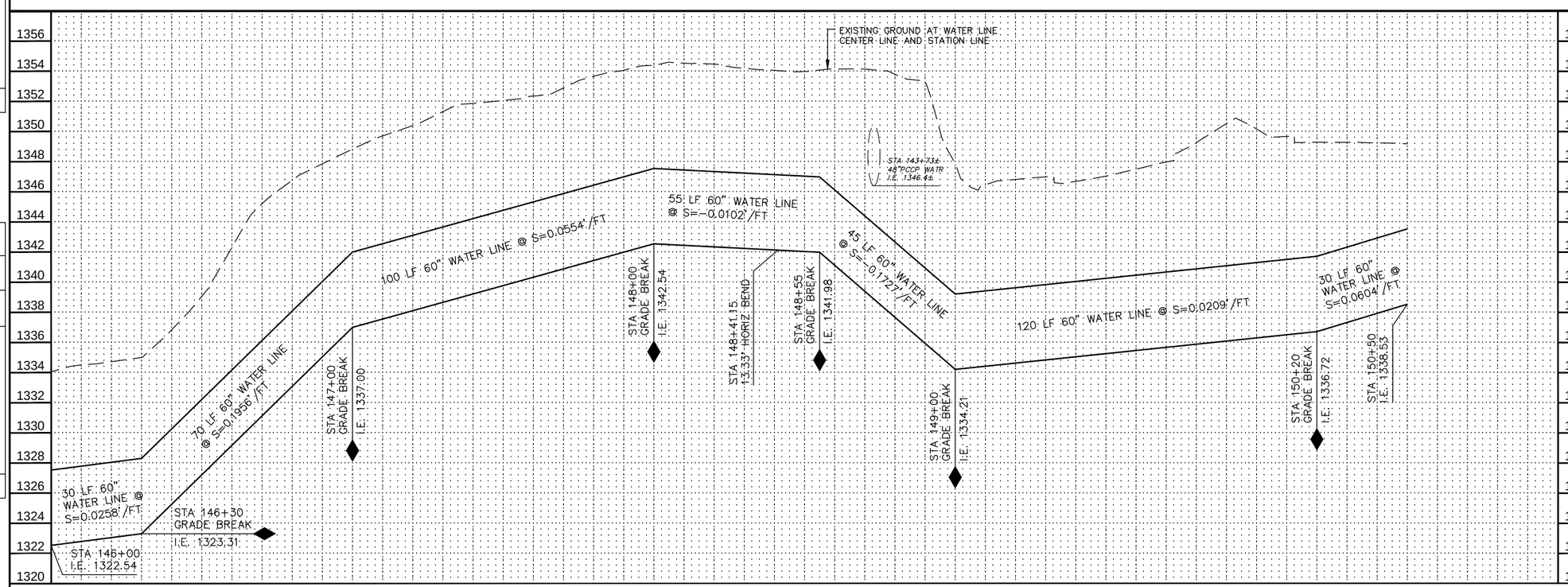
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	43	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			43	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

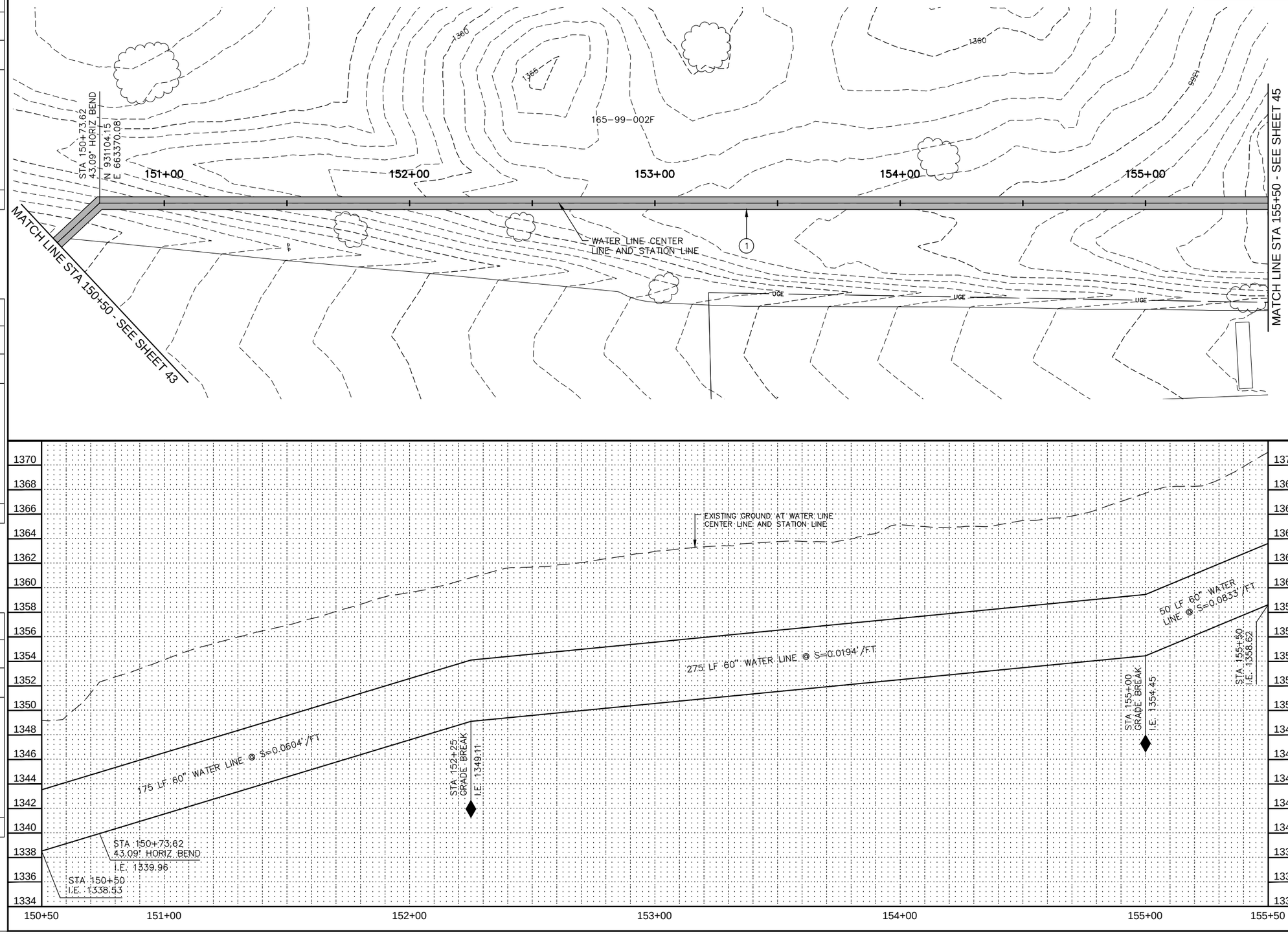
30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	44	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			44	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

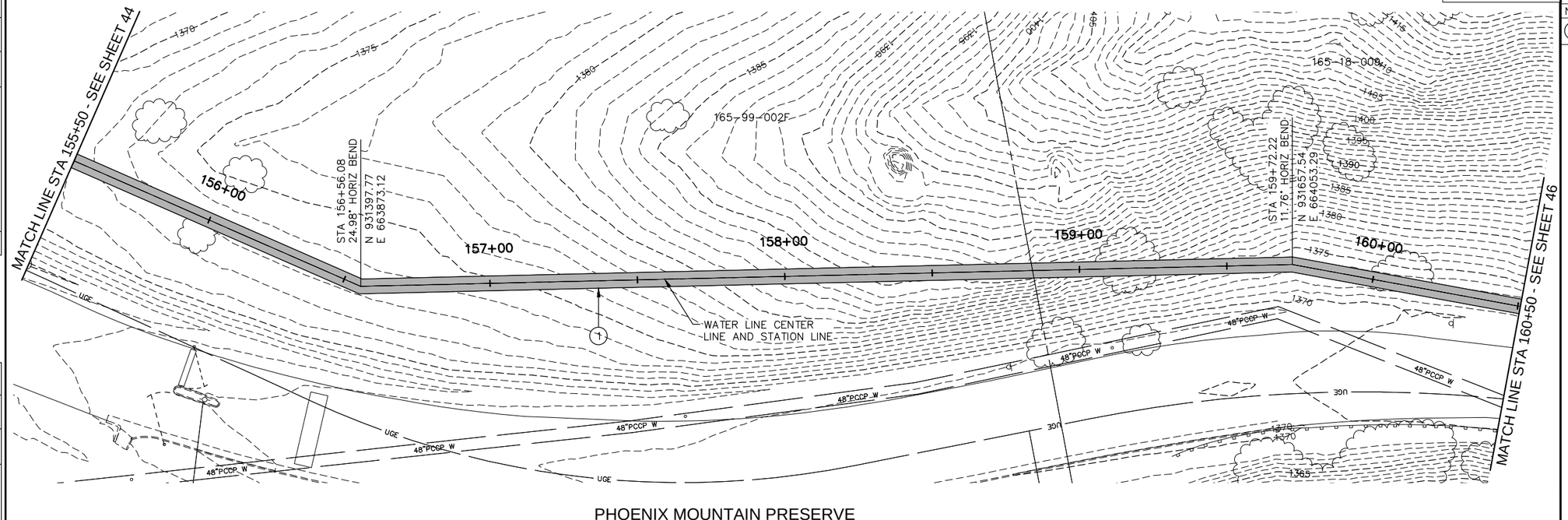
24TH STREET WTP TO 32ND STREET AND BELL ROAD

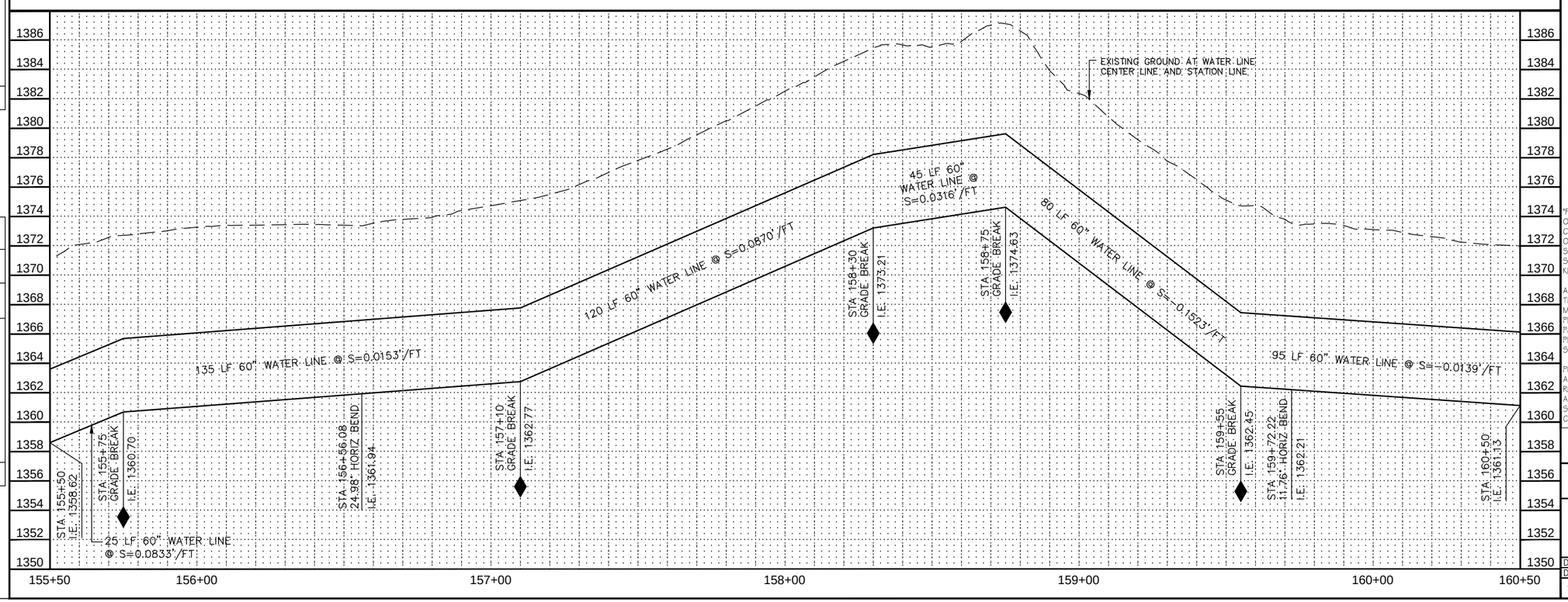
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	45	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

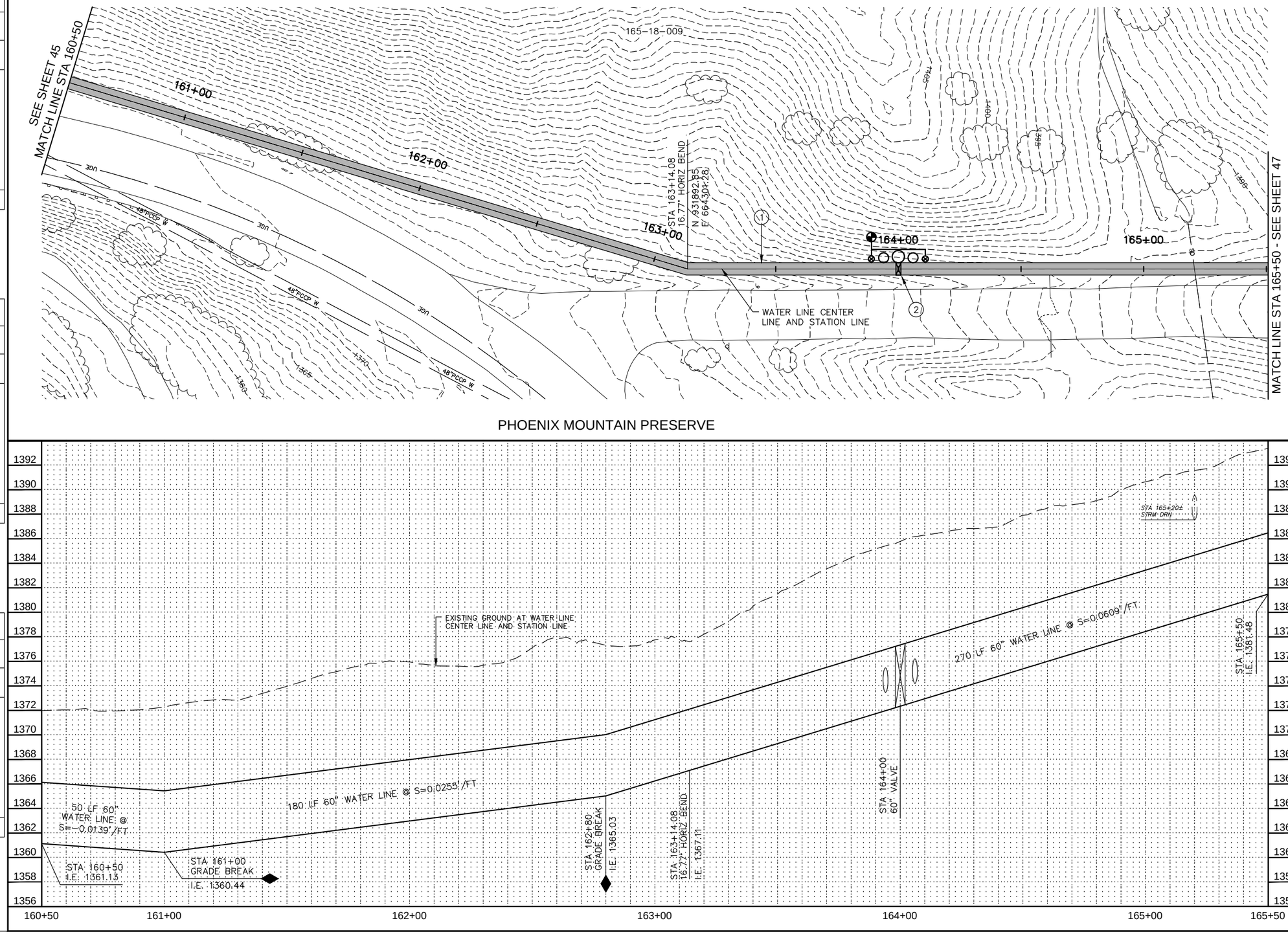
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	46	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1



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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			46	117

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

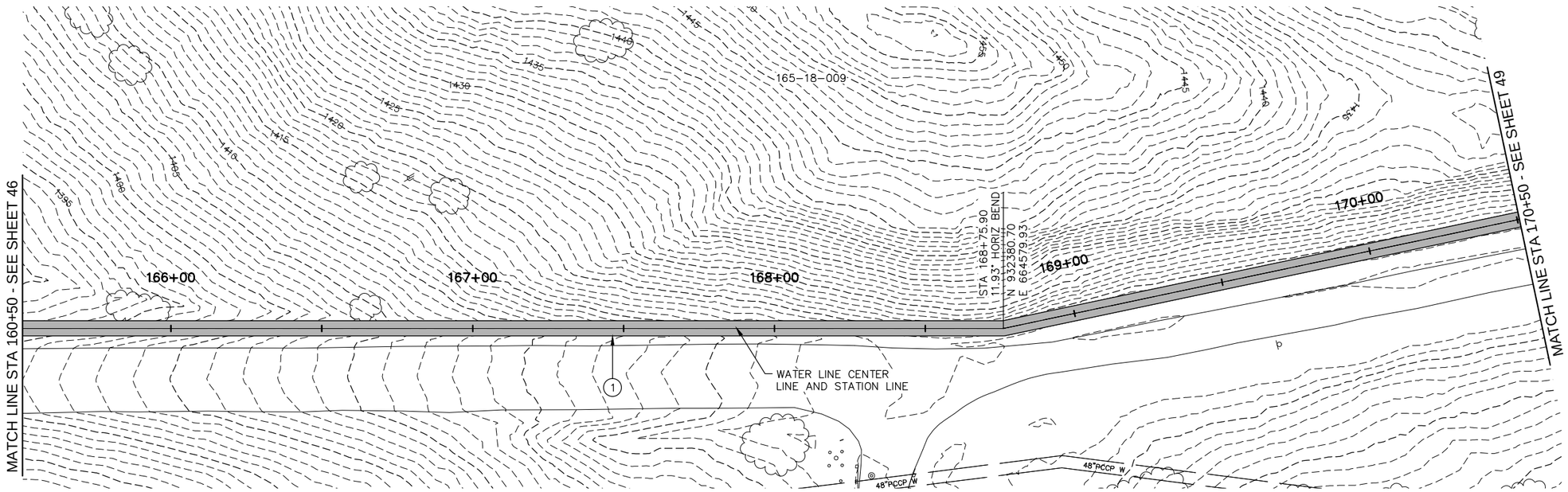
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	47	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



PHOENIX MOUNTAIN PRESERVE

SEE SHEET 48 FOR PROFILE

165+50 166+00 167+00 168+00 169+00 170+00 170+50

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	48	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
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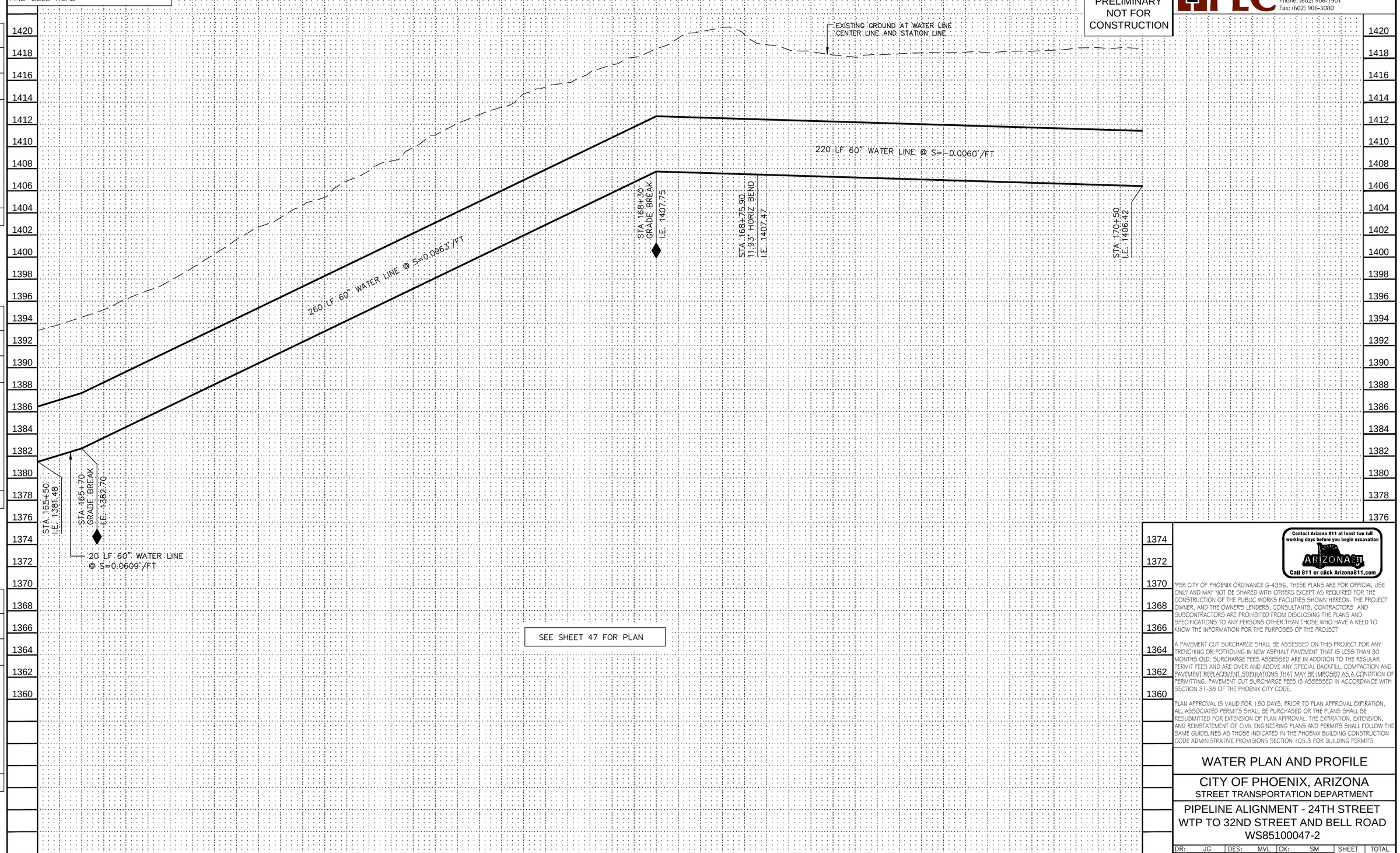

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			48	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	49	117

30%

PRELIMINARY NOT FOR CONSTRUCTION

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

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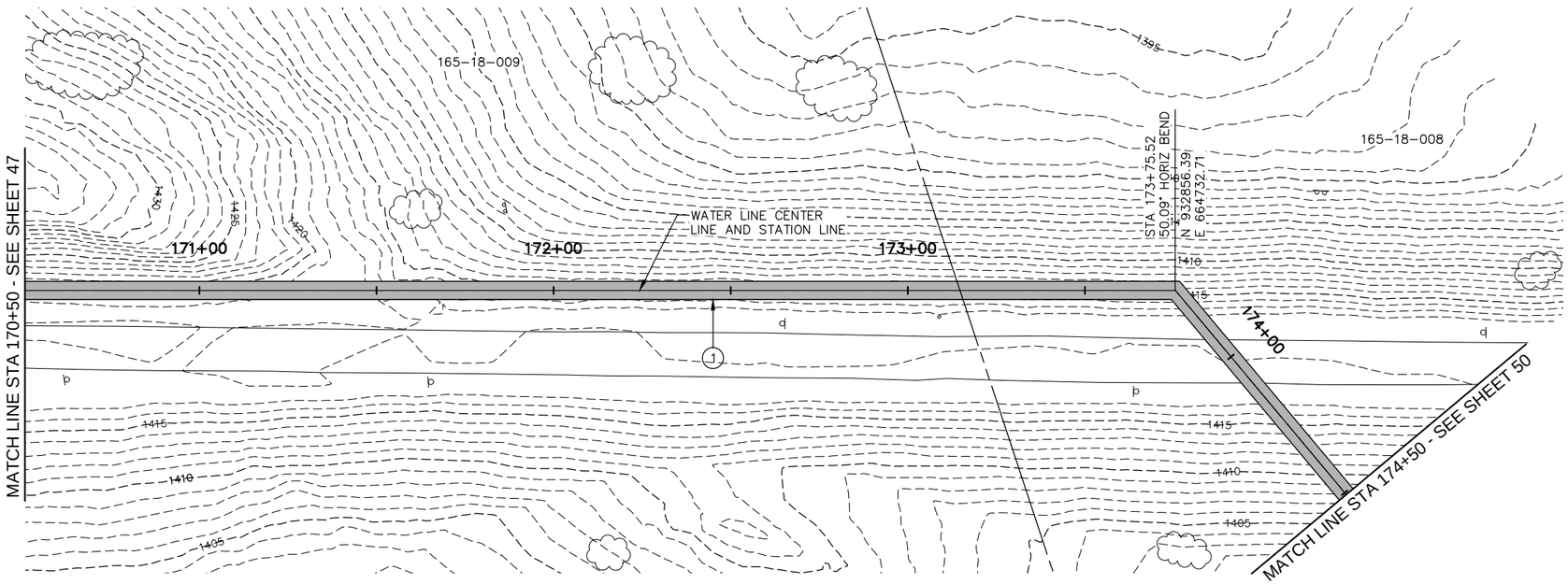

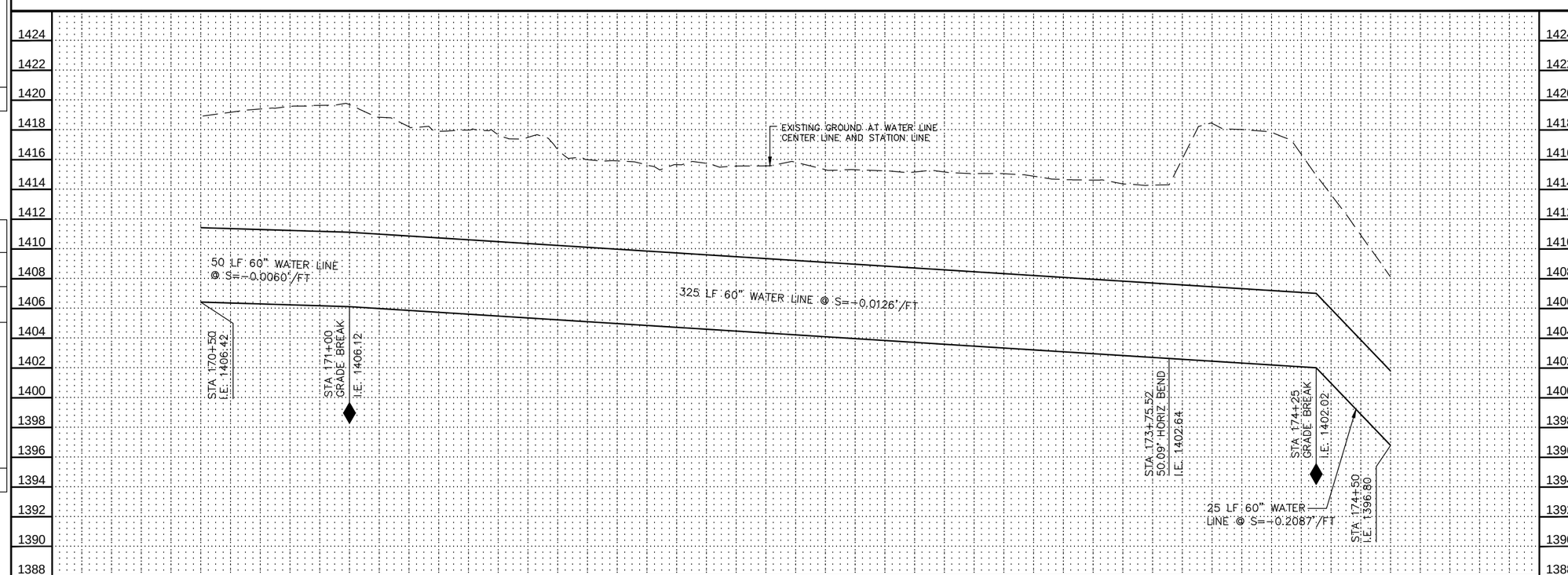

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			49	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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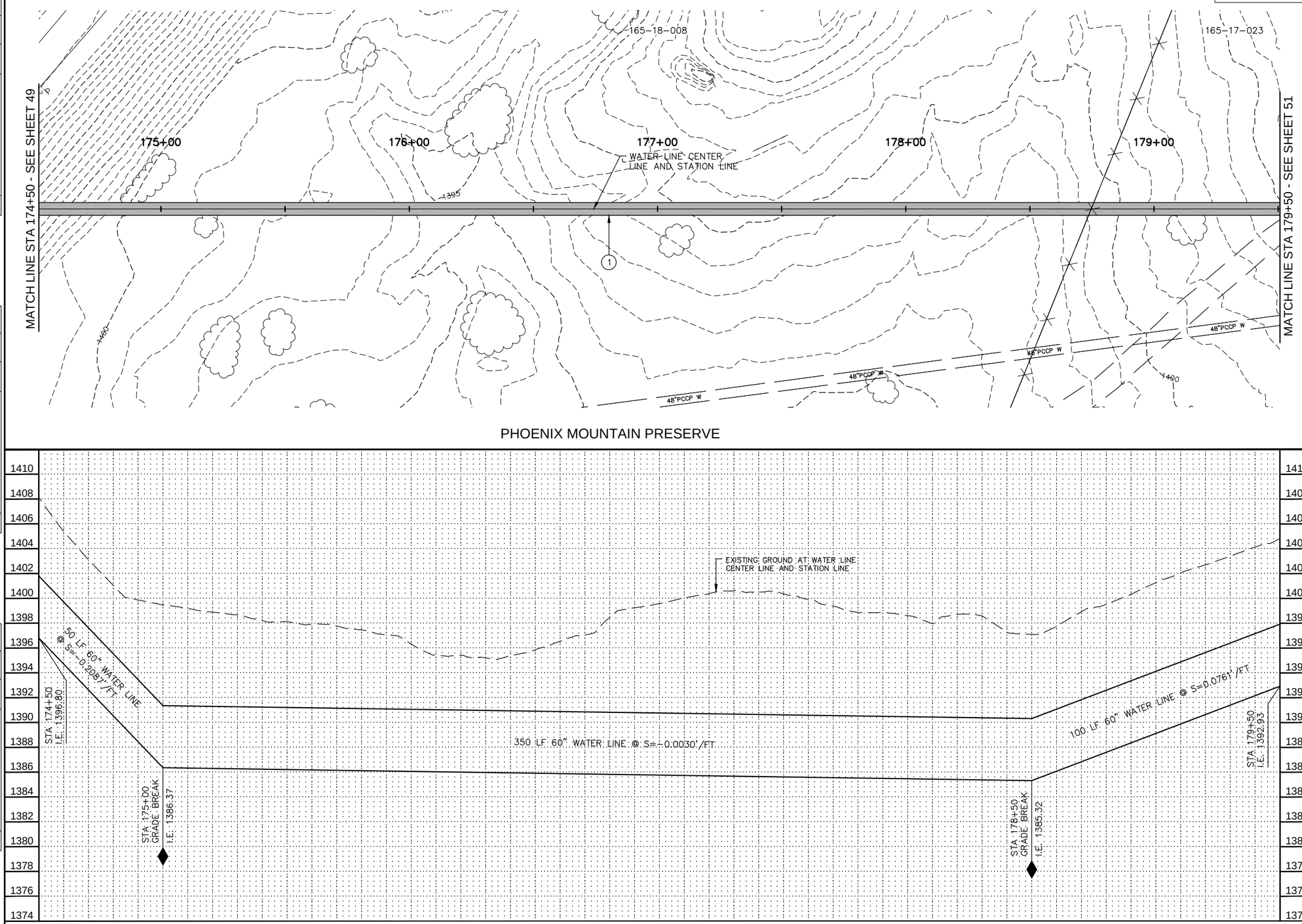
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			50	117

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REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%

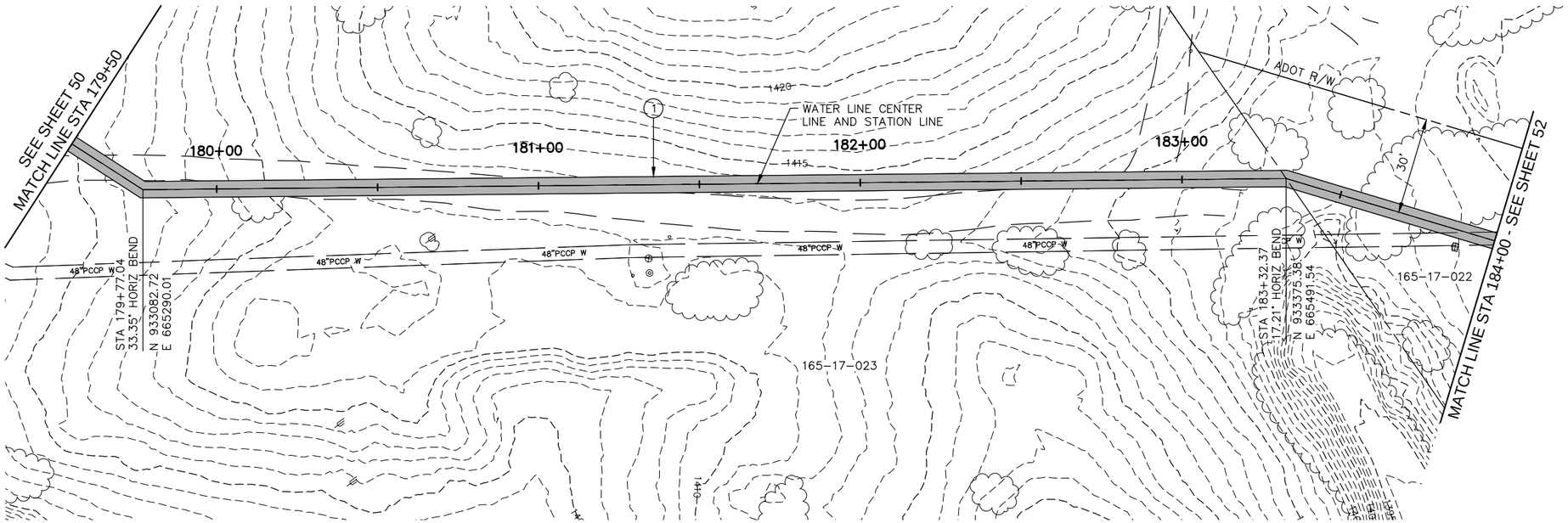
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	51	117

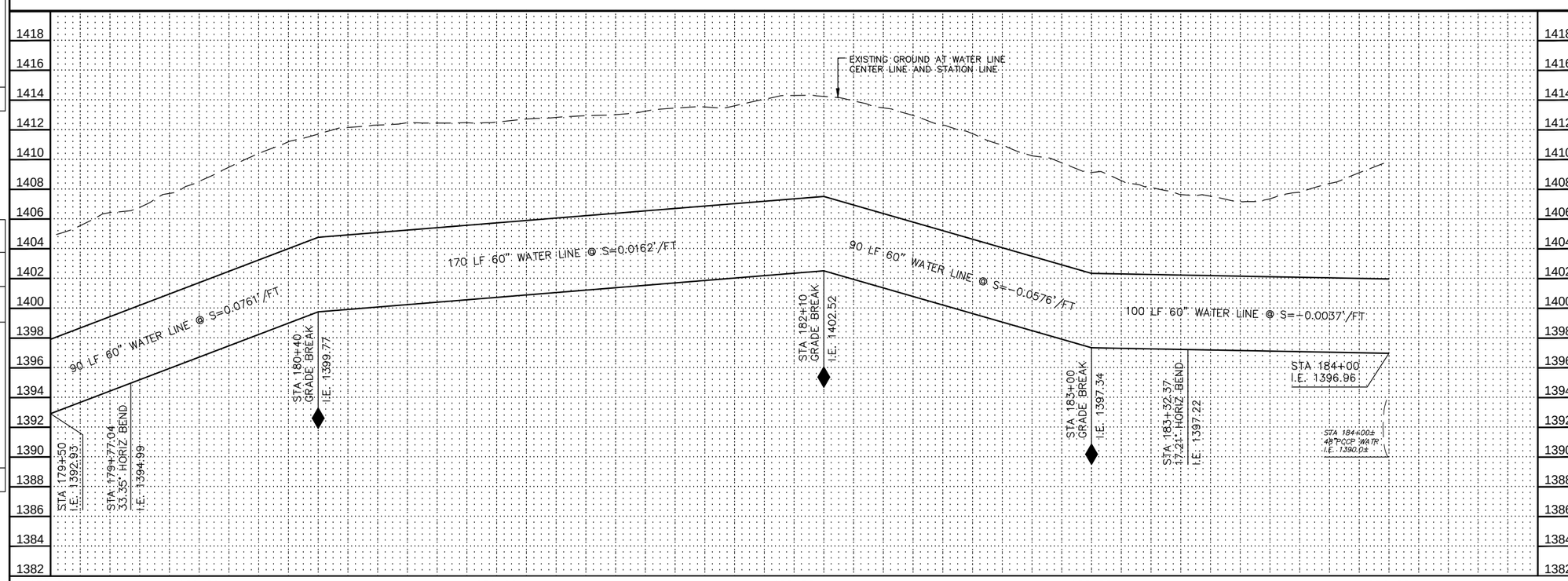
PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450



PHOENIX MOUNTAIN PRESERVE



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	51	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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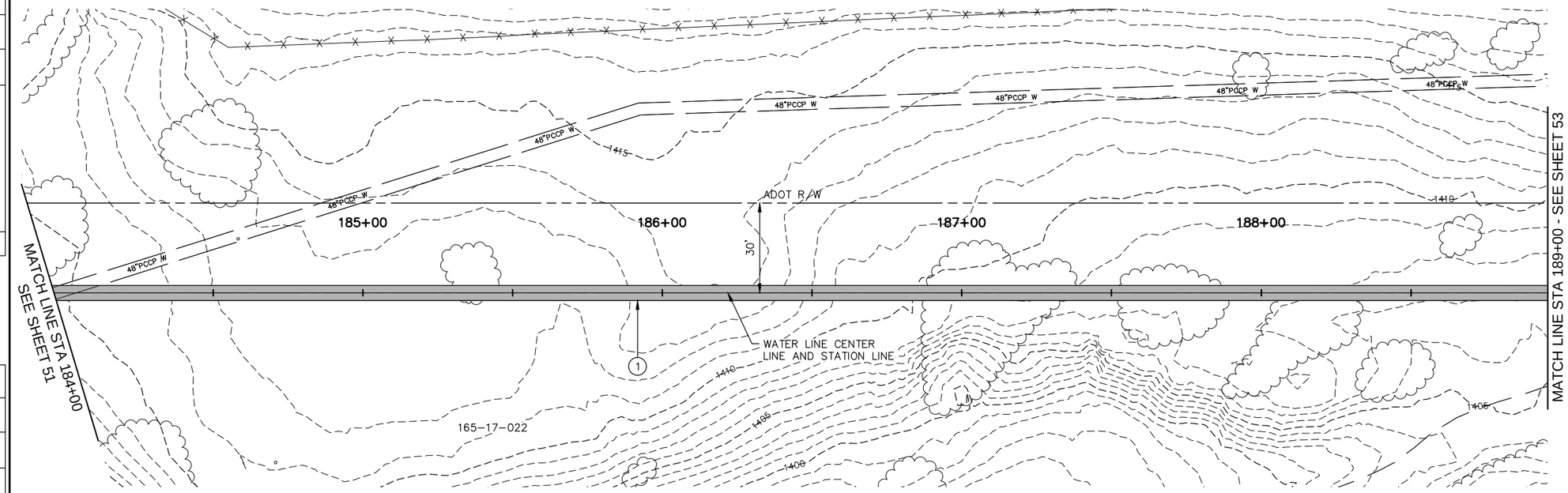
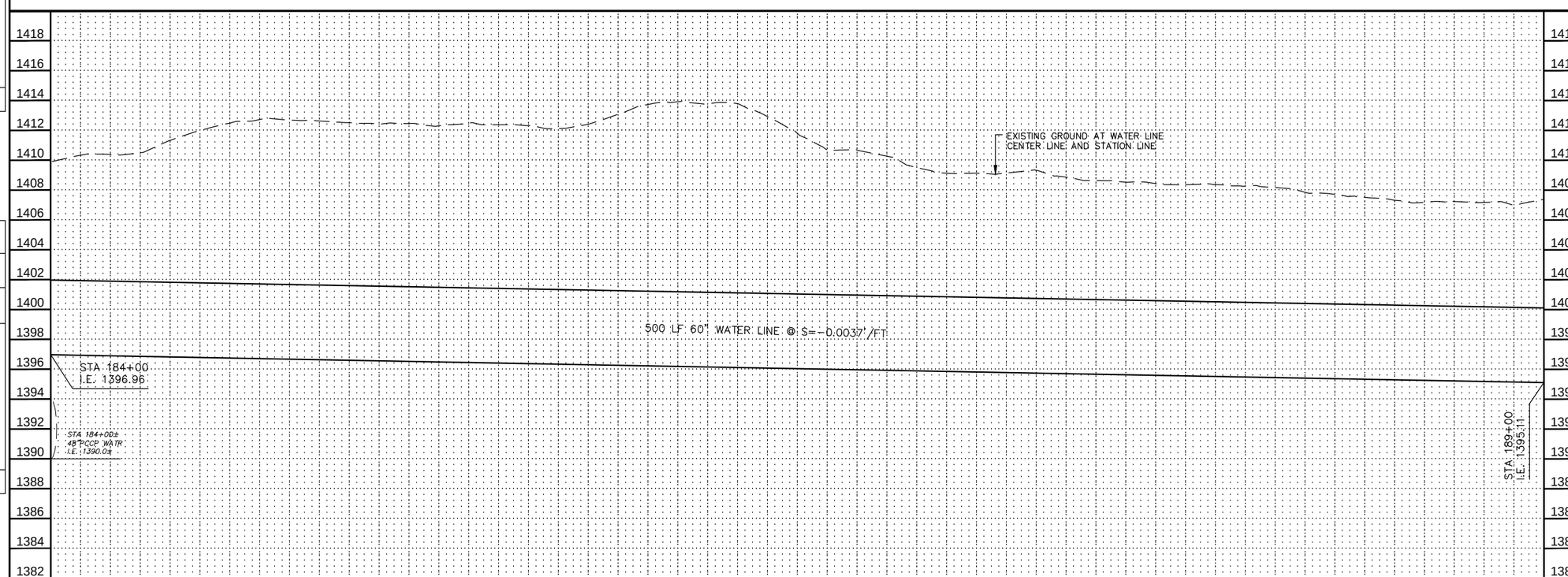
PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			52	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	53	117

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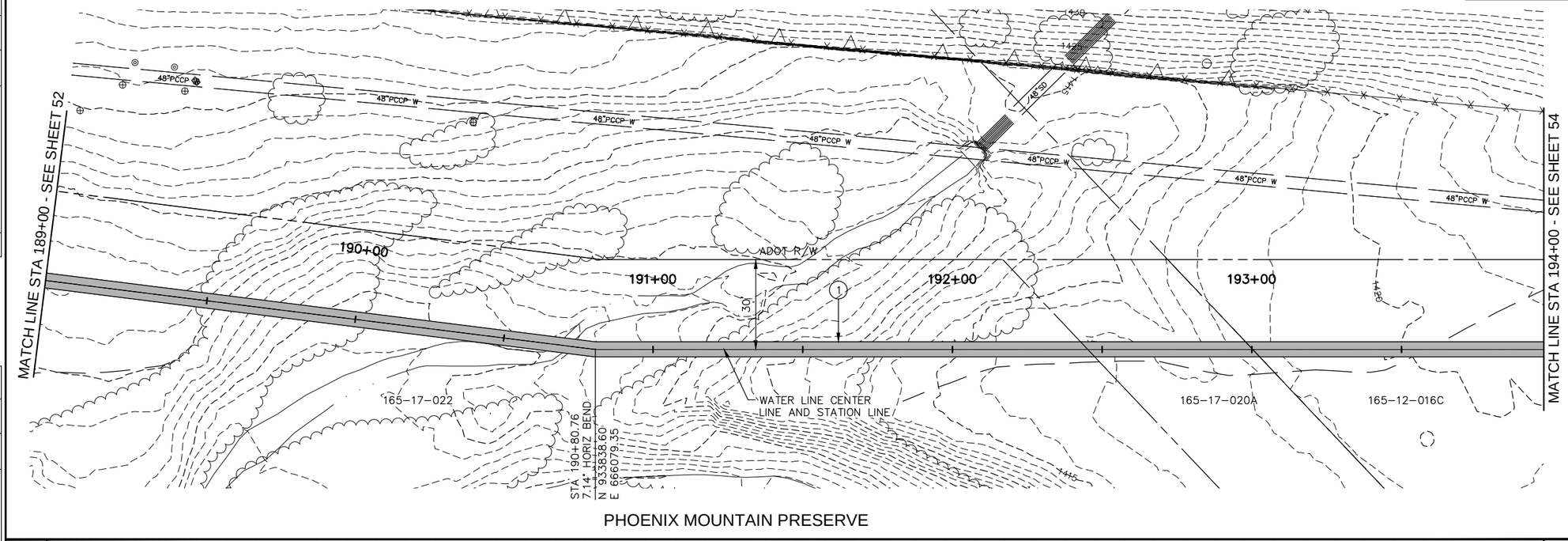
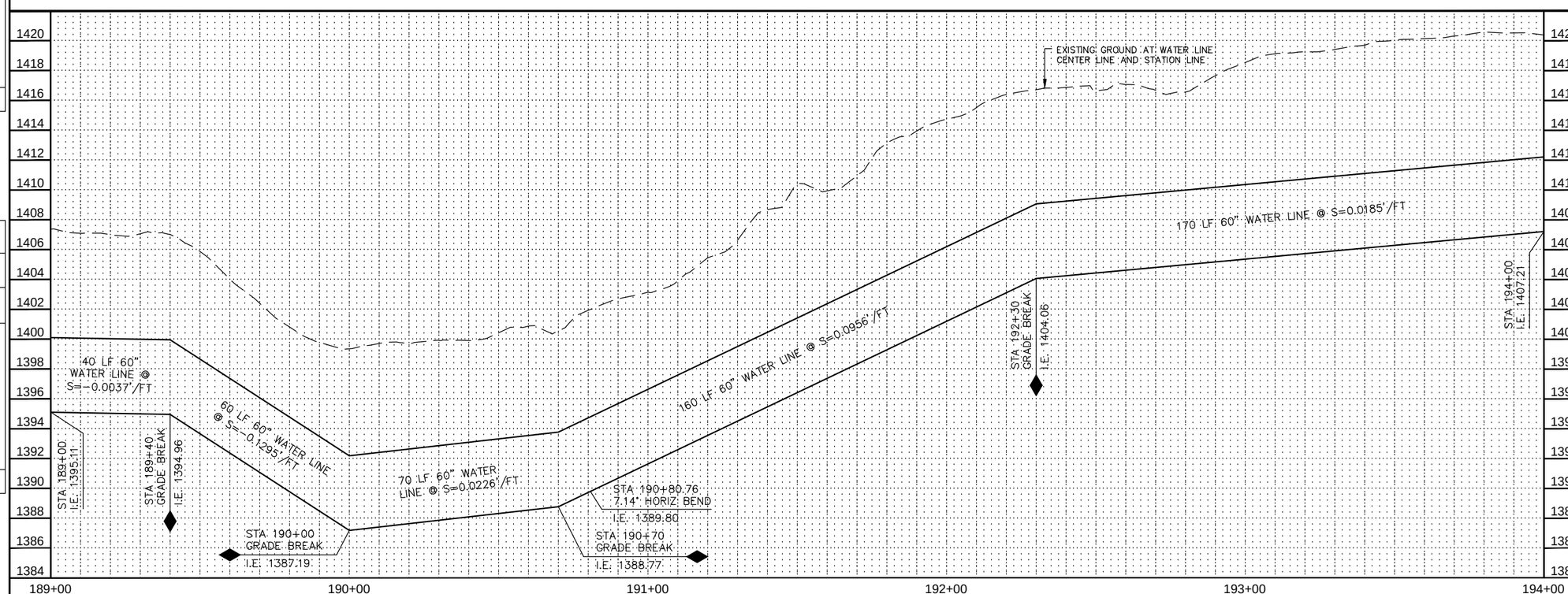
1	INSTALL 60" WATER LINE	LF	500



PHOENIX MOUNTAIN PRESERVE



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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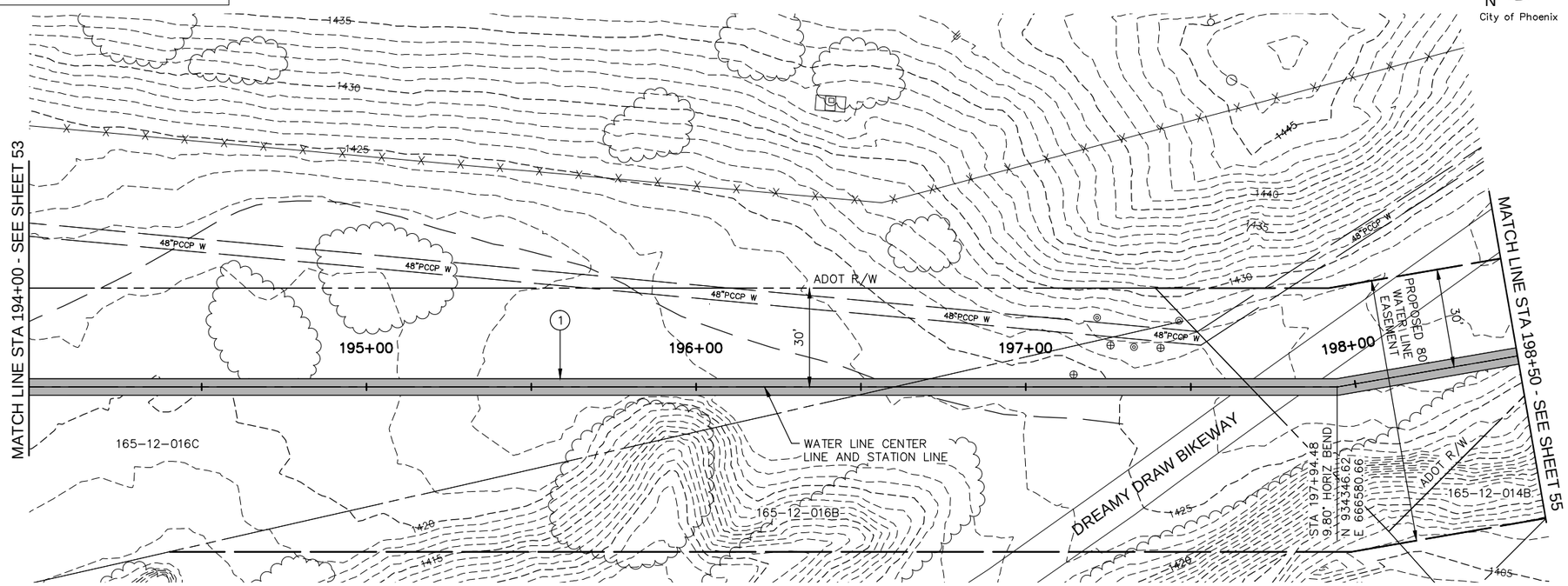
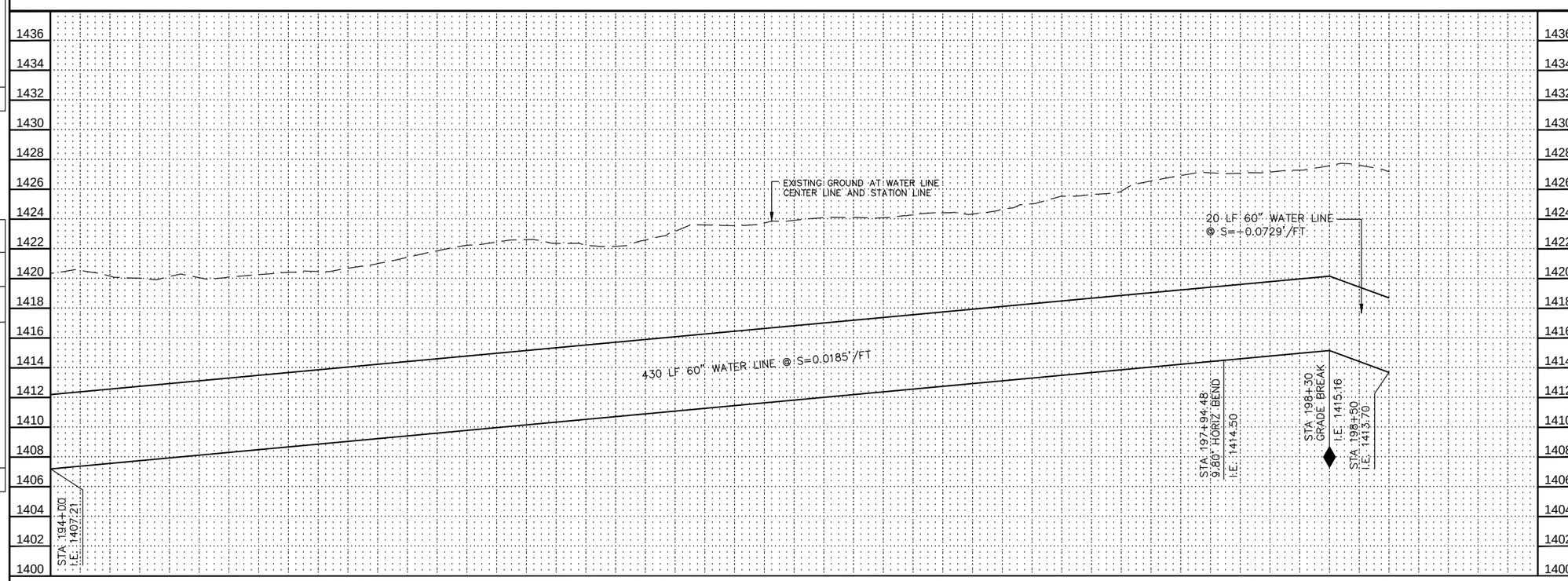
24TH STREET WTP TO 32ND STREET AND BELL ROAD



PHOENIX MOUNTAIN PRESERVE



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	54	117

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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

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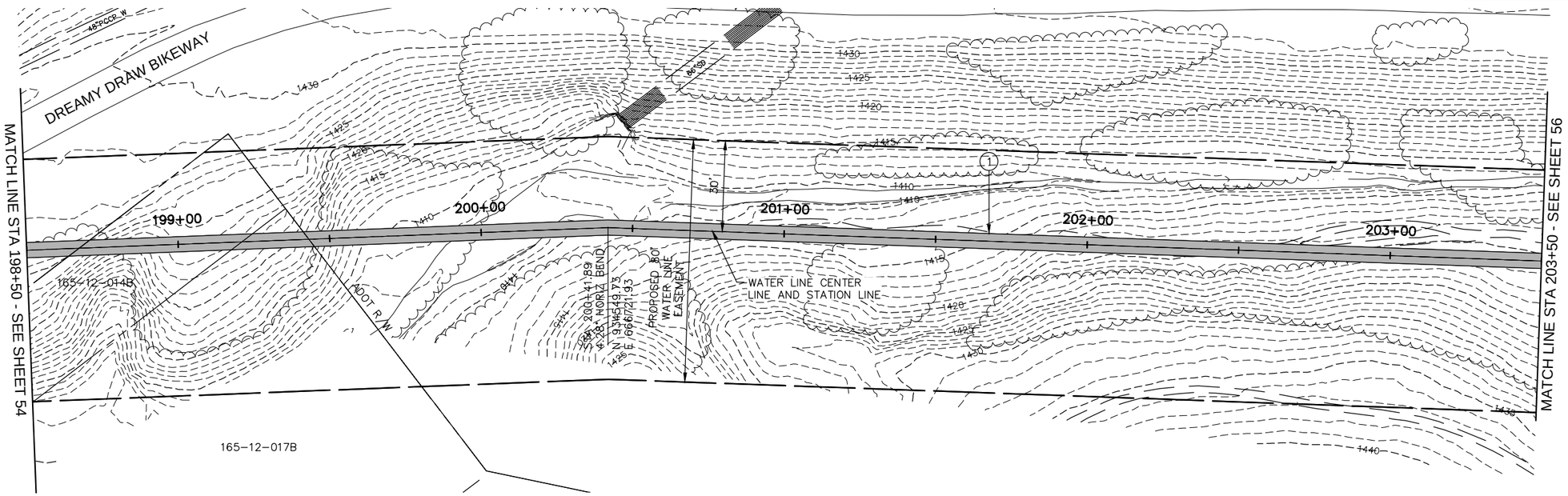
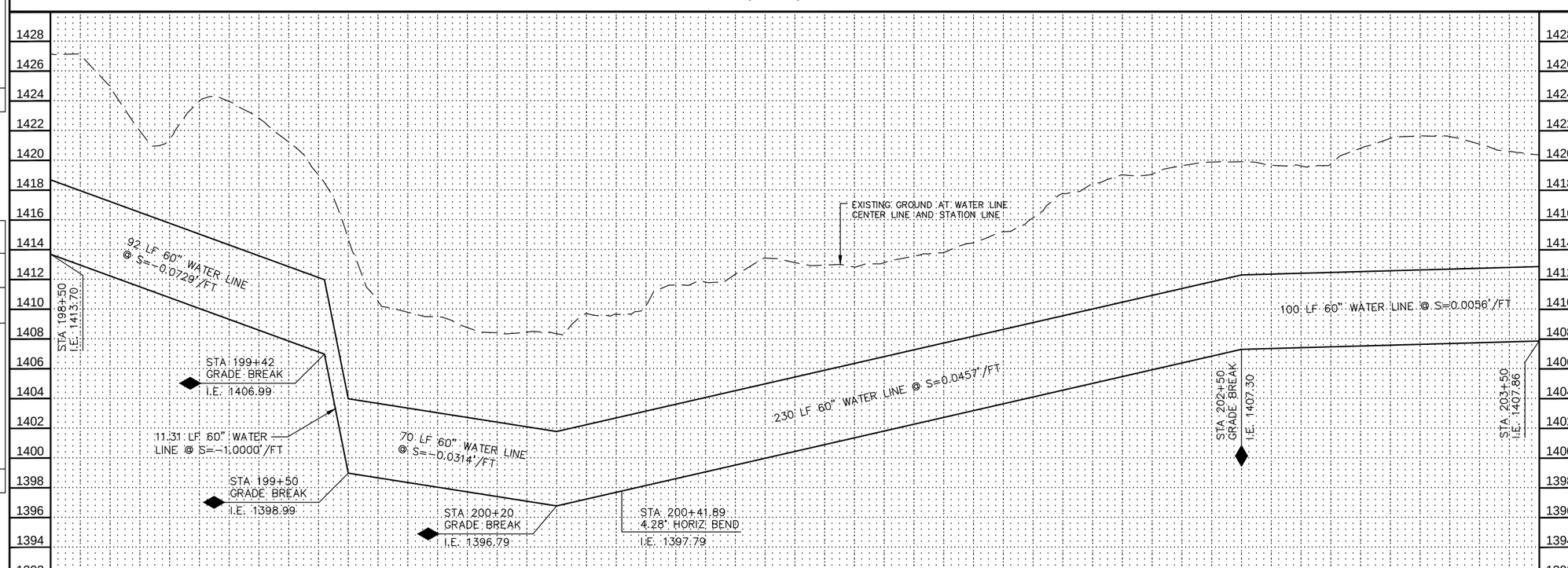
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	504



PIESTEWA FREEWAY (SR 51) RIGHT OF WAY



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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DATE: 05/18	DATE: 05/18	DATE: 05/18	55	117
SCALE: HORIZ 1"=20' VERT 1"= 2'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	56	117

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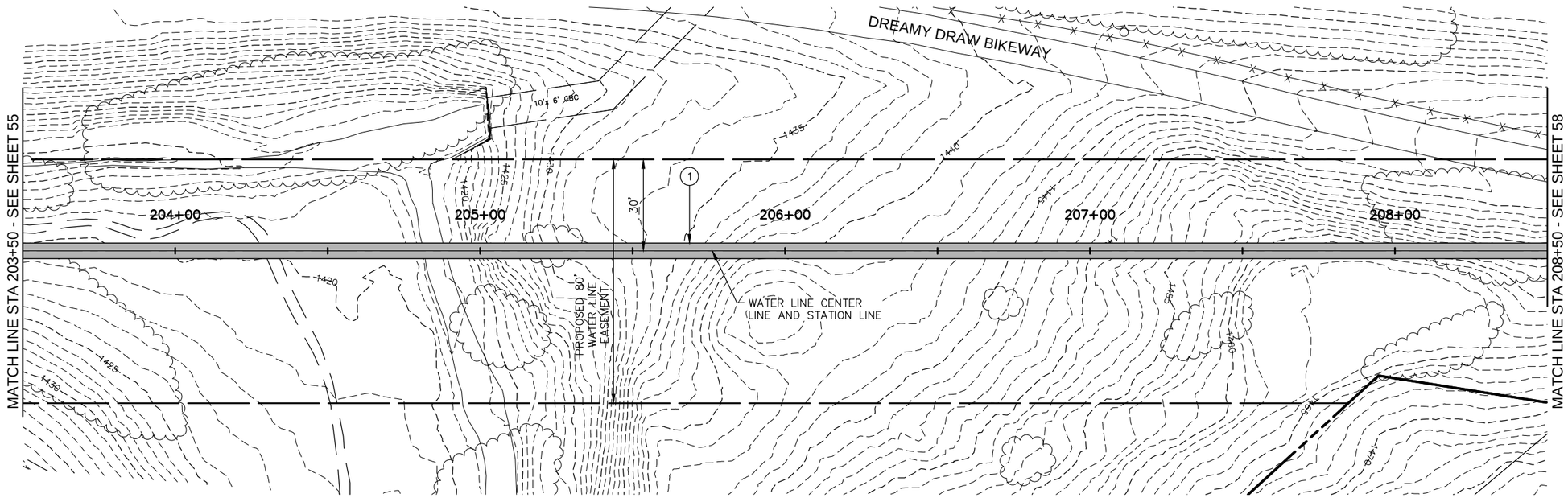
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	503



PIESTEWA FREEWAY (SR51) RIGHT OF WAY

SEE SHEET 57 FOR PROFILE

203+50 204+00 205+00 206+00 207+00 208+00 208+50

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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SCALE: HORIZ 1"=20' VERT 1"= 2'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

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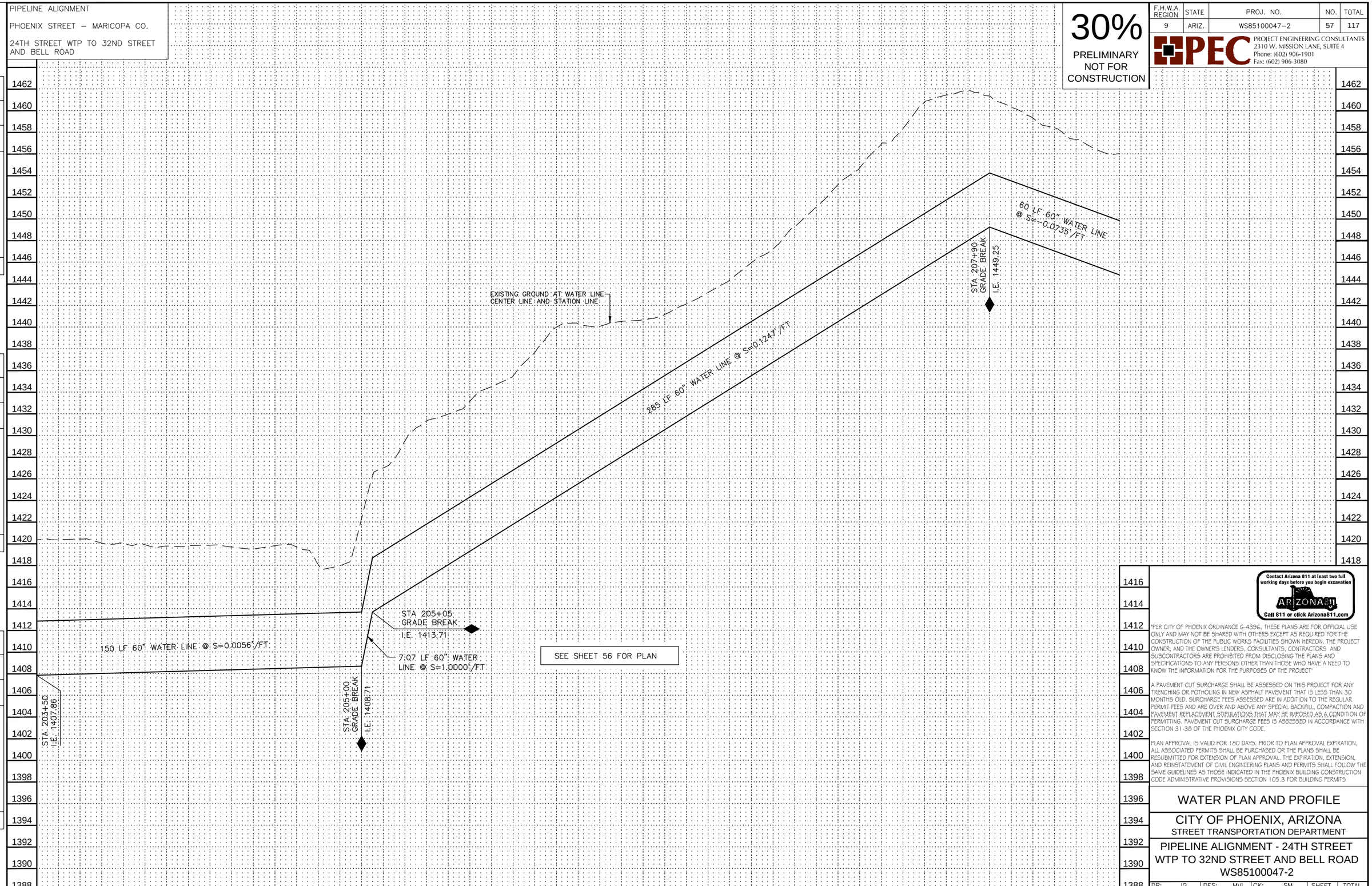

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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24TH STREET WTP TO 32ND STREET AND BELL ROAD

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City of Phoenix

30%
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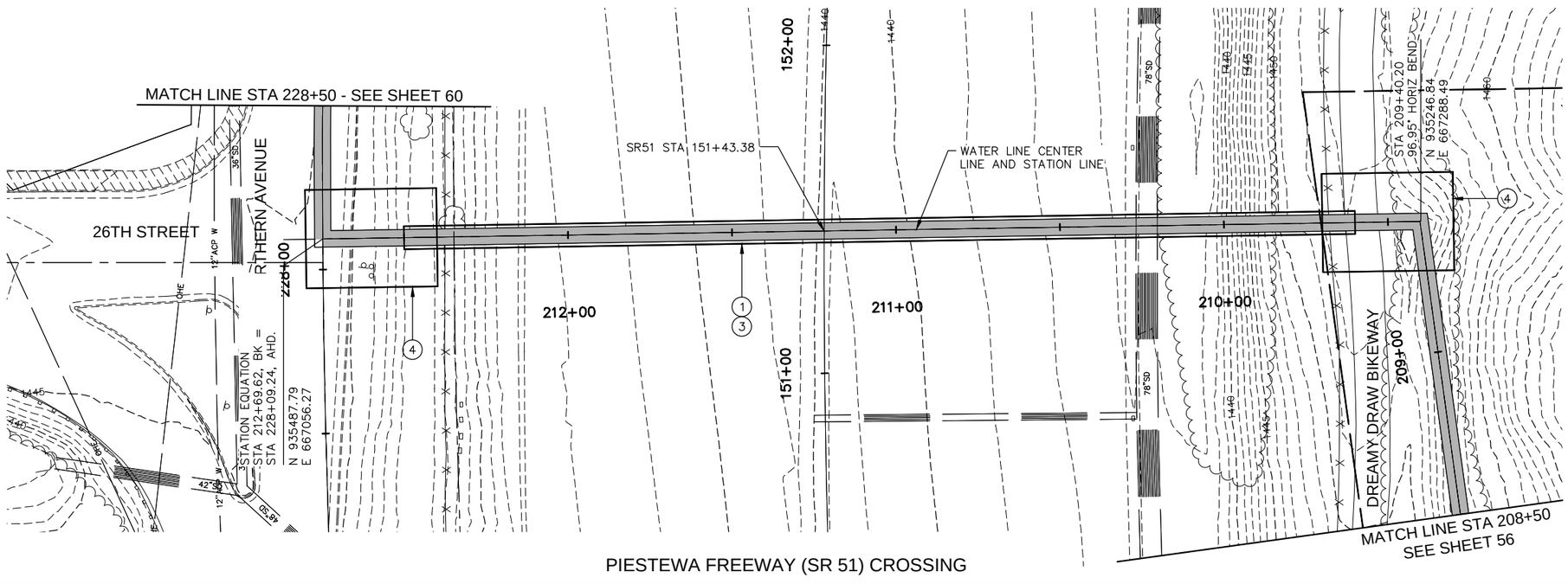

PIESTEWA FREEWAY (SR 51) CROSSING

SEE SHEET 59 FOR PROFILE

228+50 | 212+74.84 228+09.35 | 212+00 | 211+00 | 210+00 | 209+00 | 208+50

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	480
3	INSTALL 84" STEEL CASING	LF	290
4	JACKING / RECEIVING PIT		

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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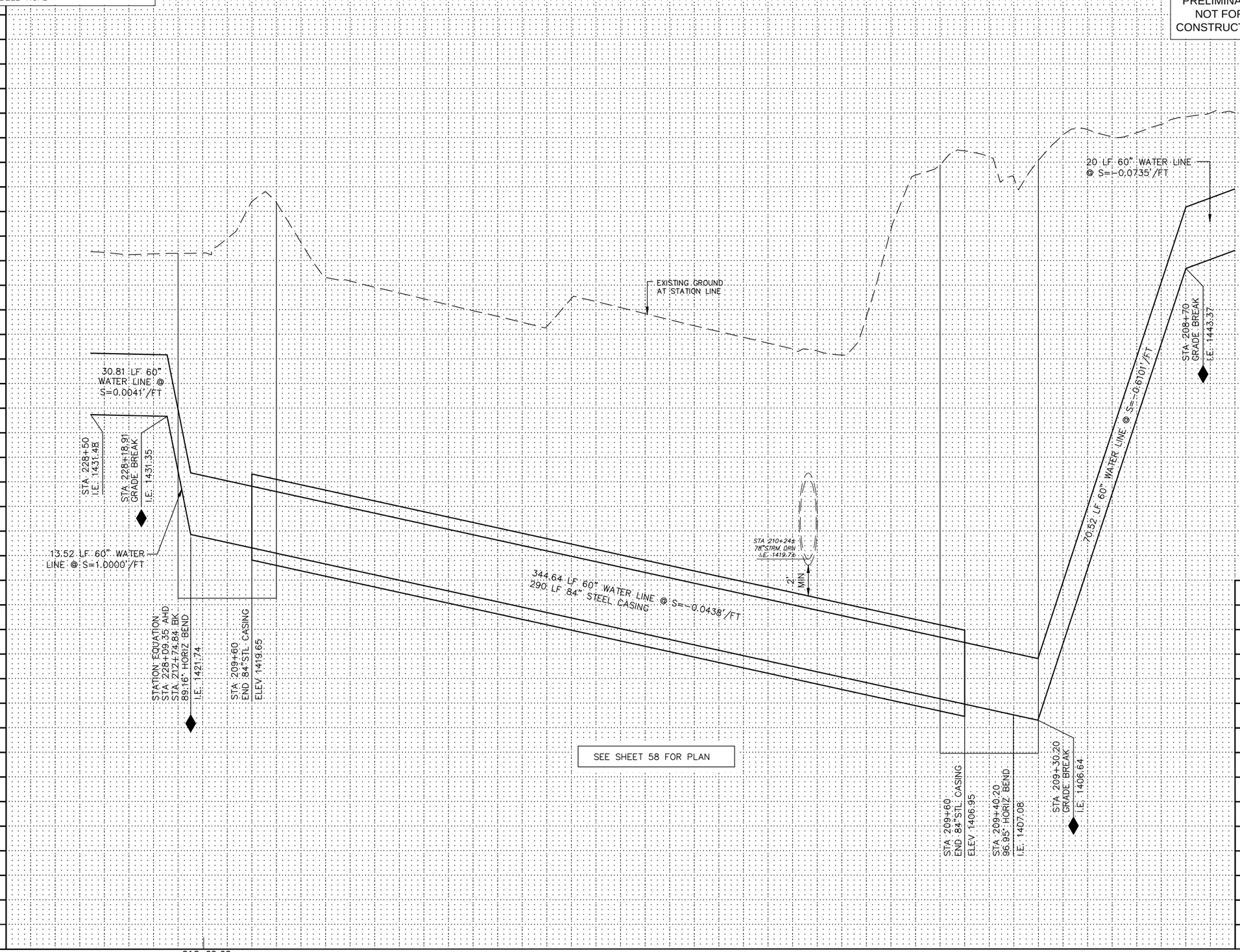

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			58	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

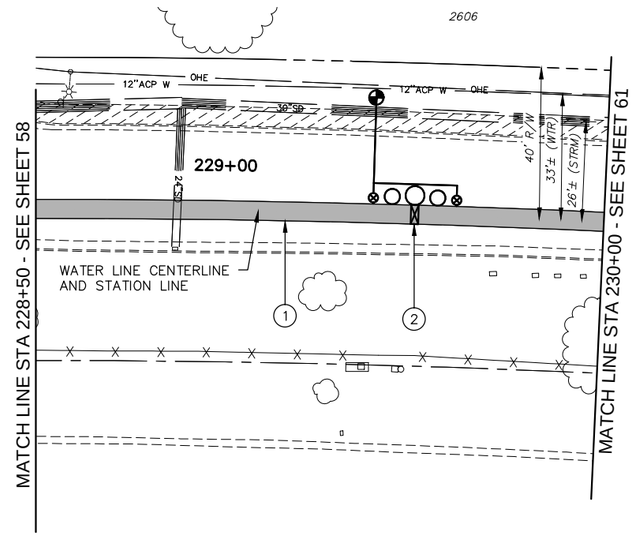
30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	60	117

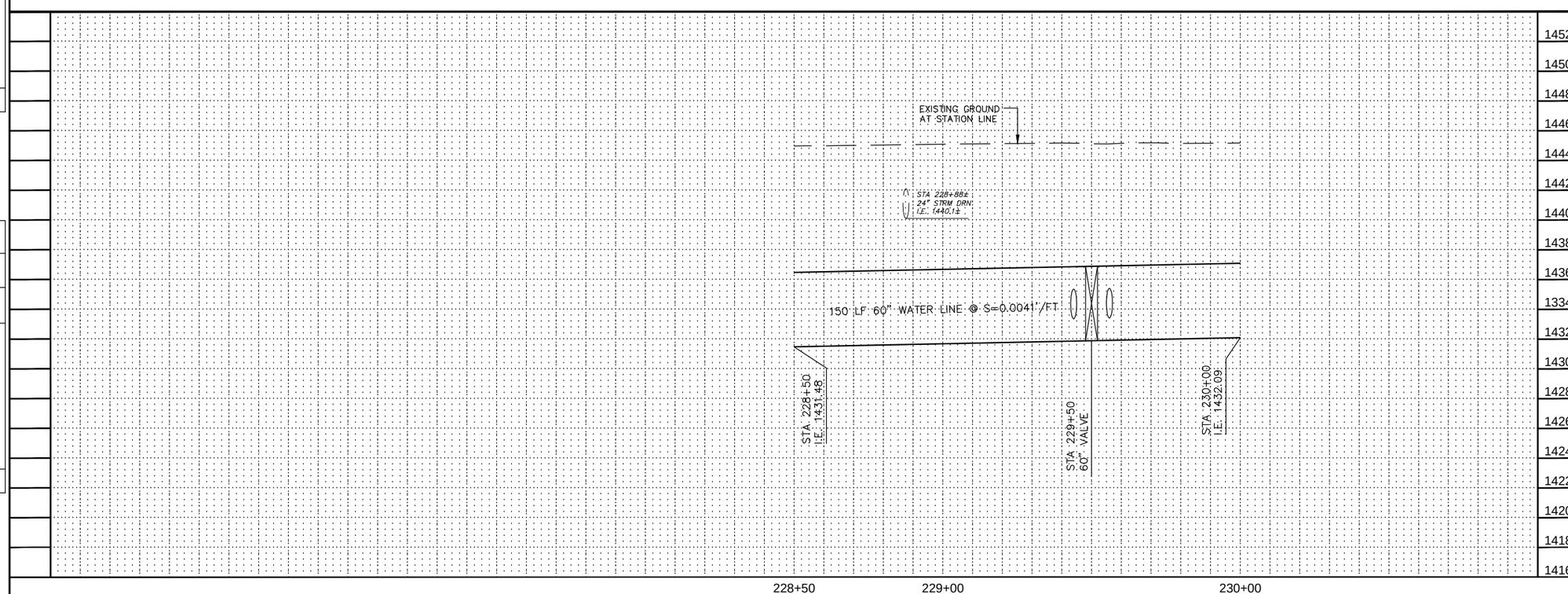
PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	150
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1



NORTHERN AVENUE



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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			60	117

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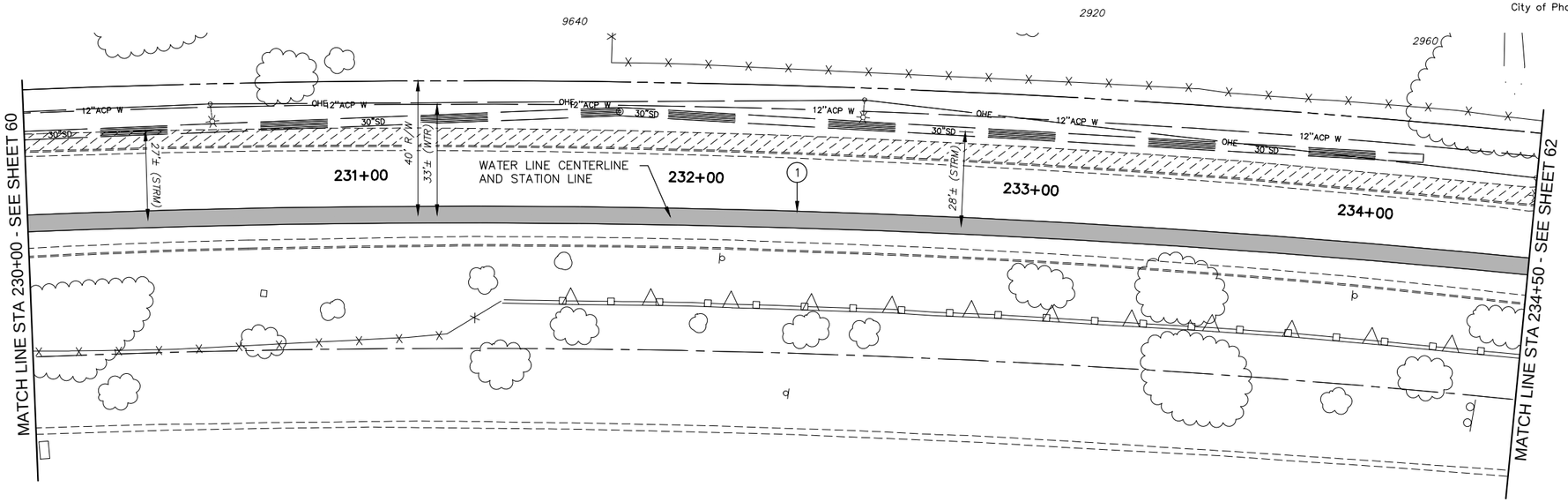

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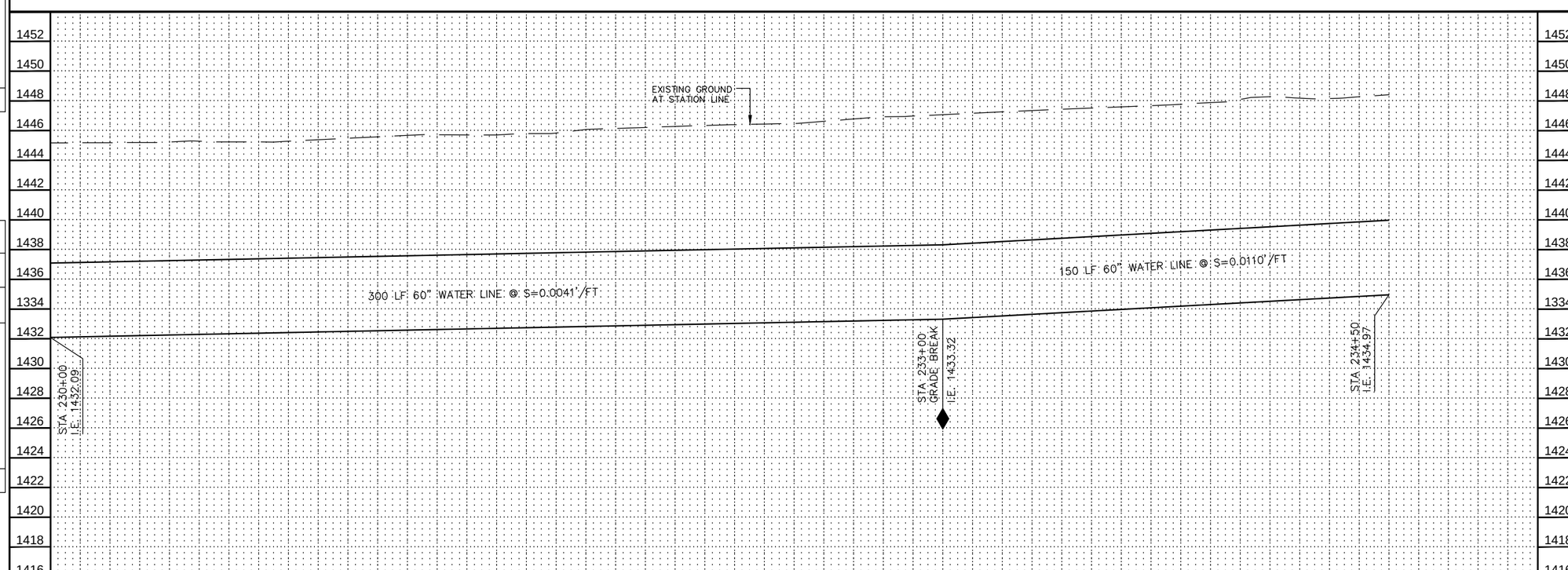

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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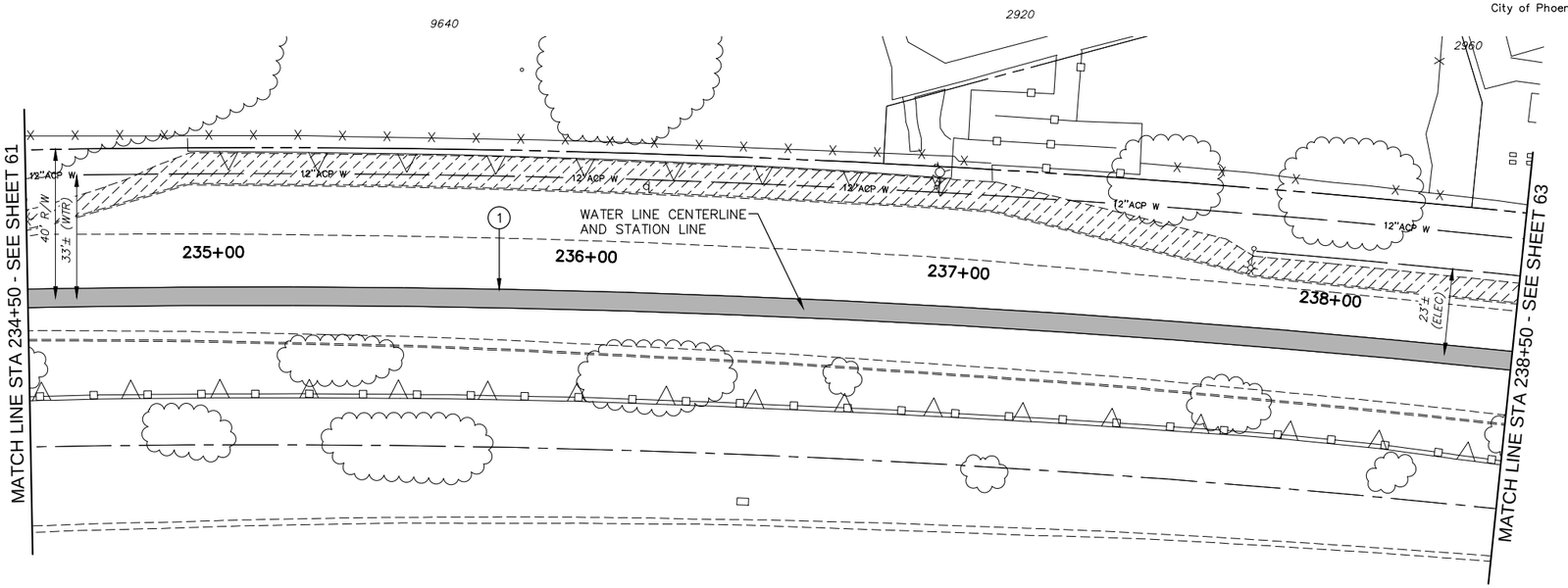
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400



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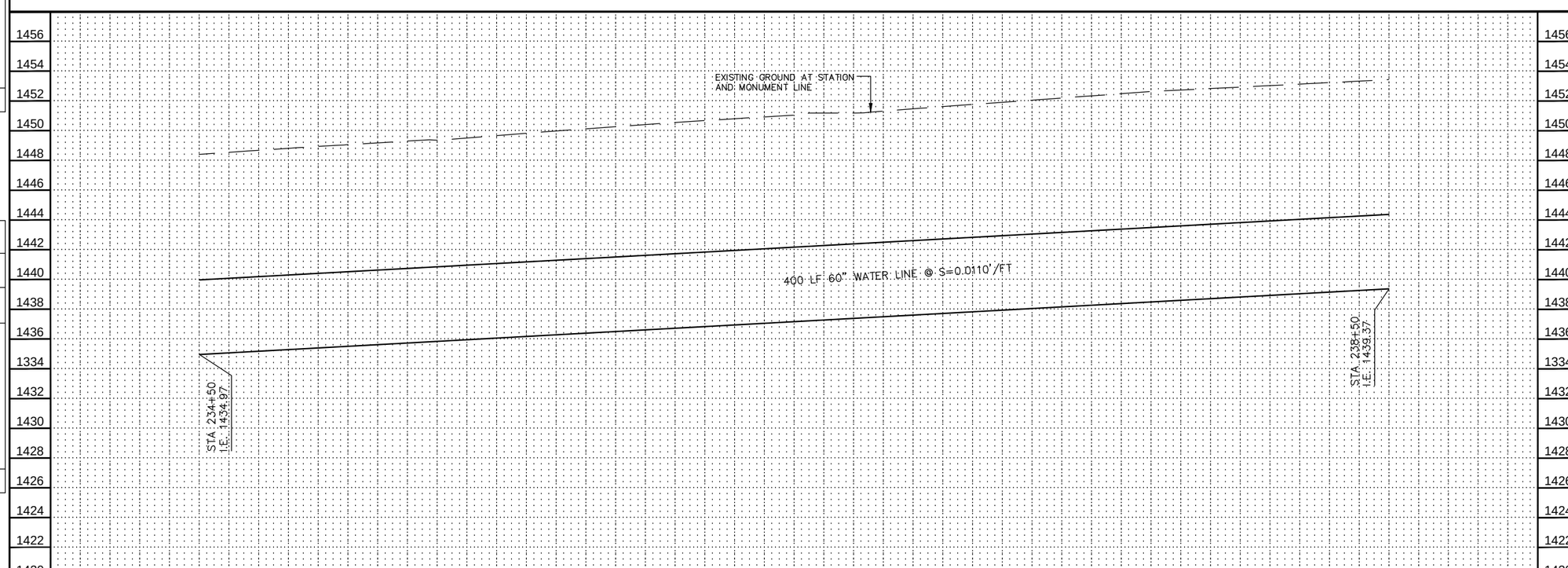

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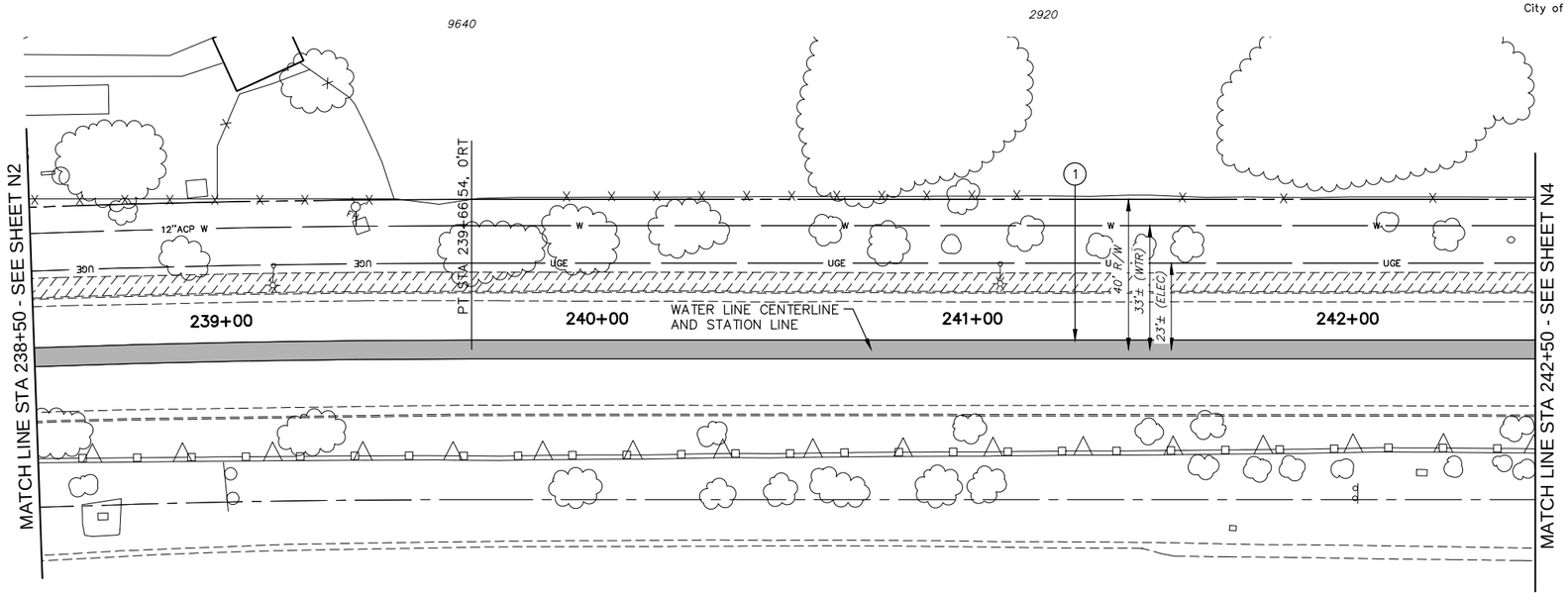

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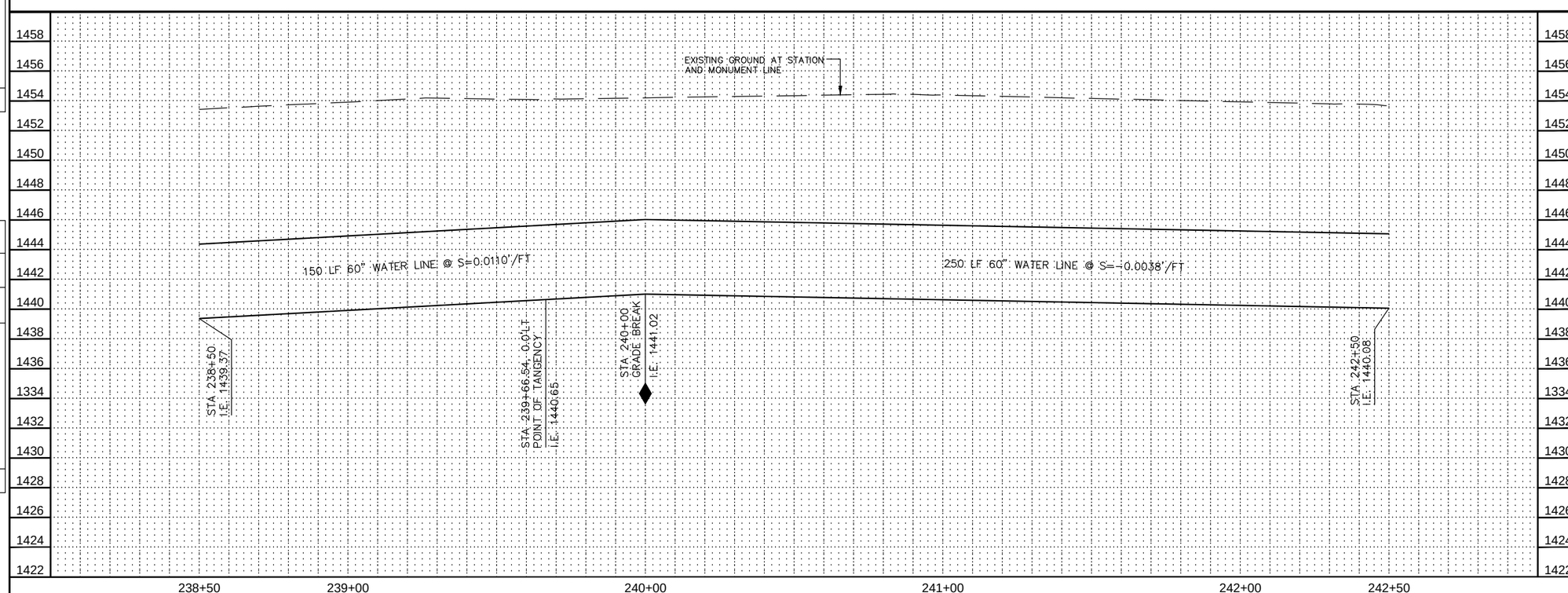

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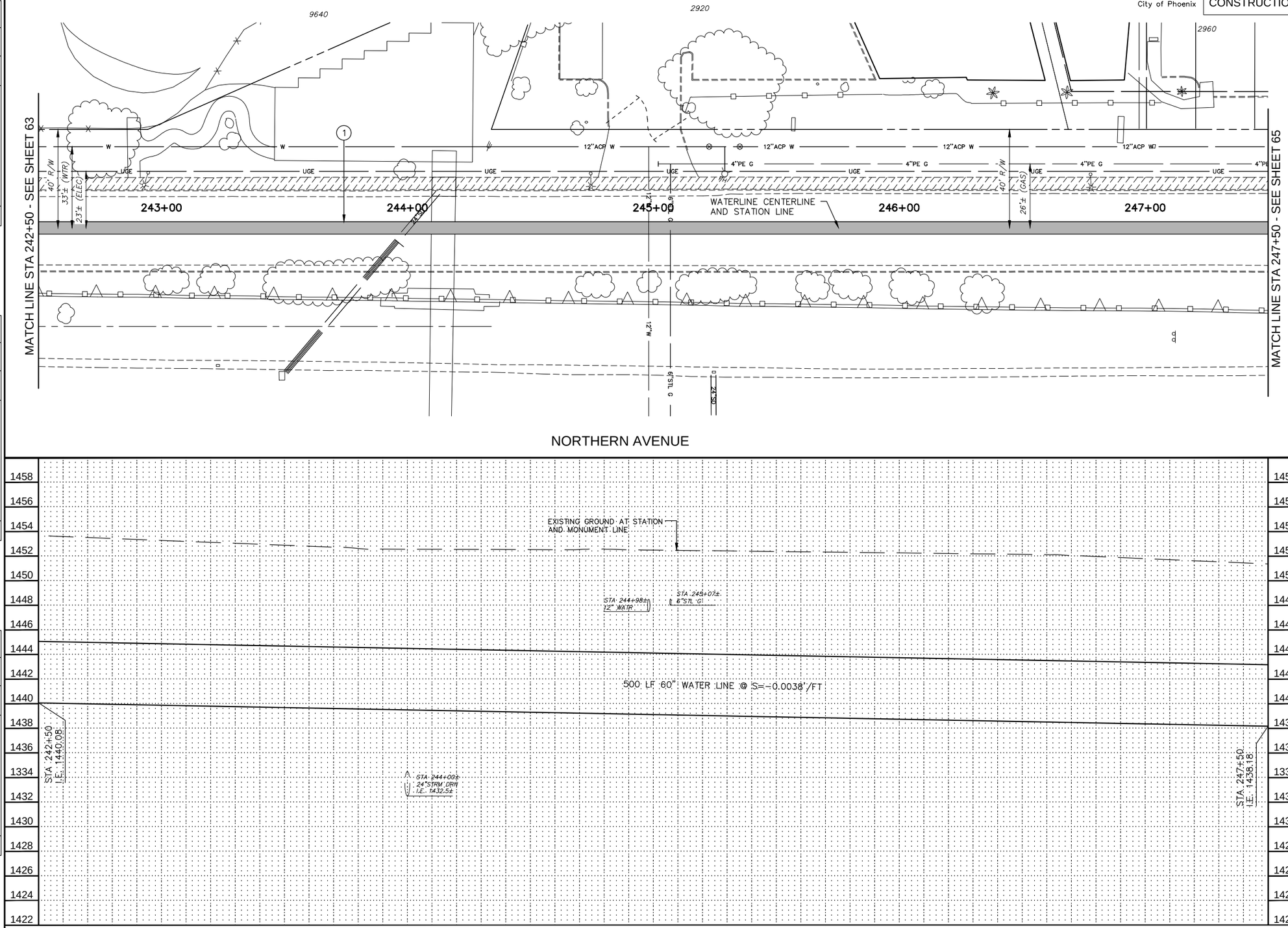

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CONSTRUCTION NOTES

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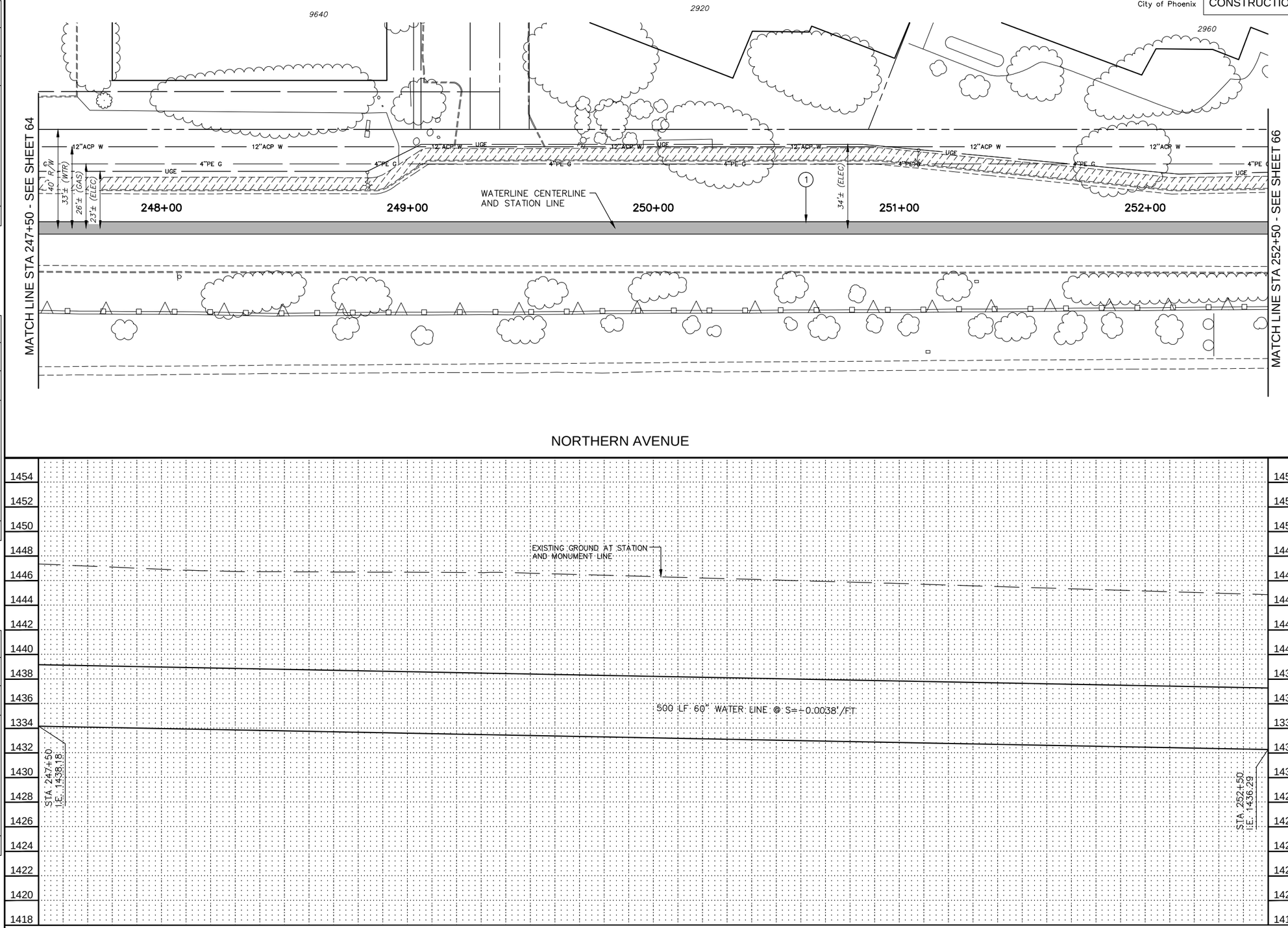
1	INSTALL 60" WATER LINE	LF	500



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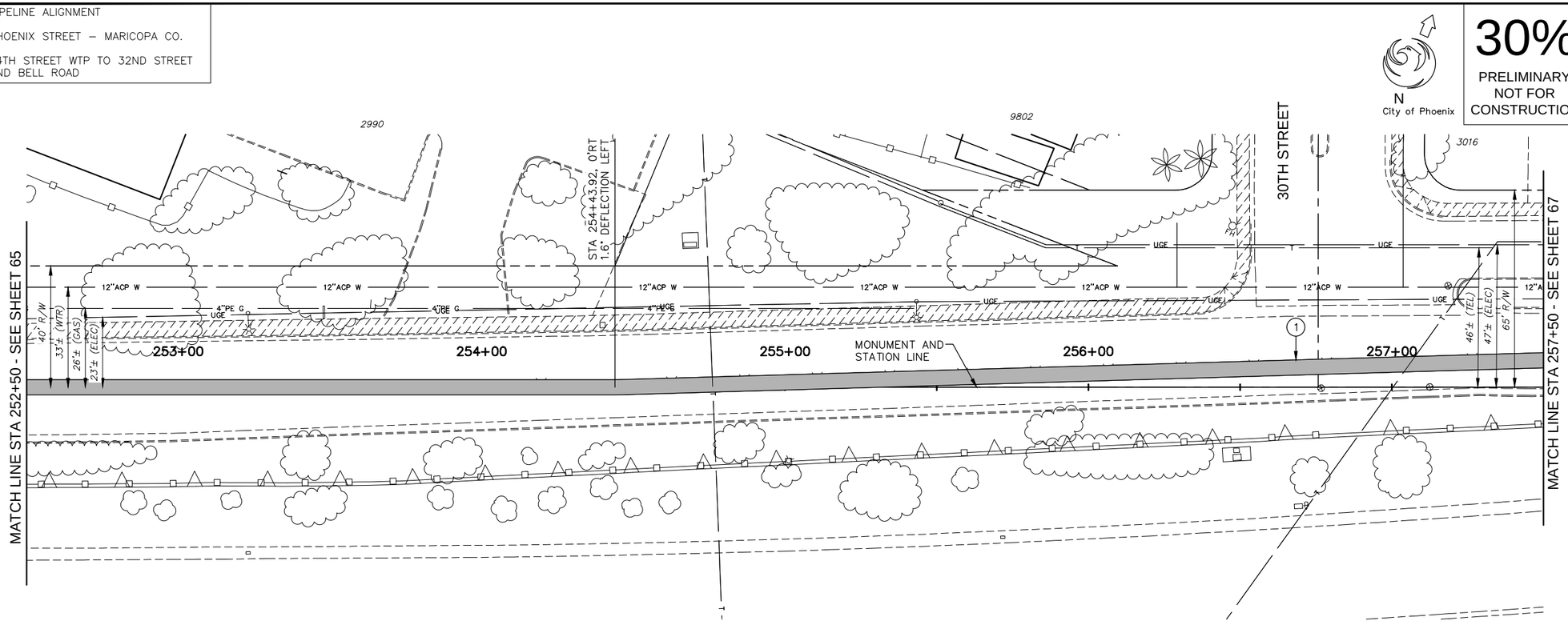

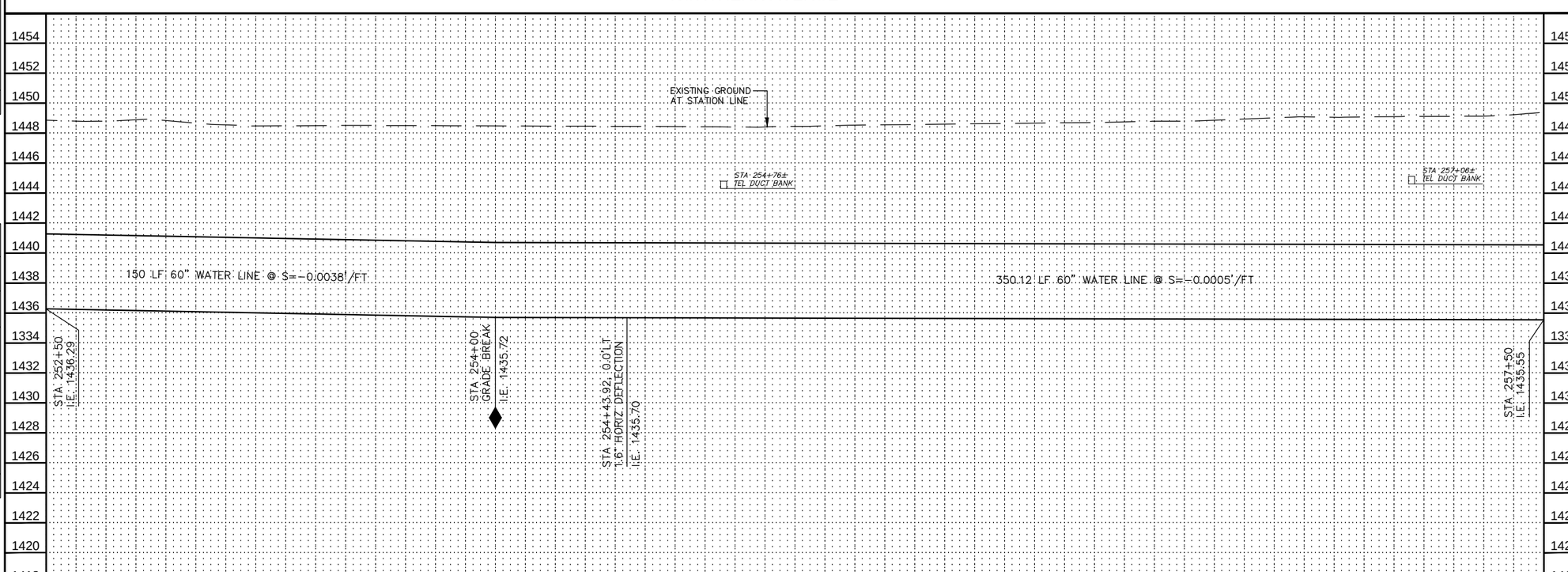

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	501

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	66	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

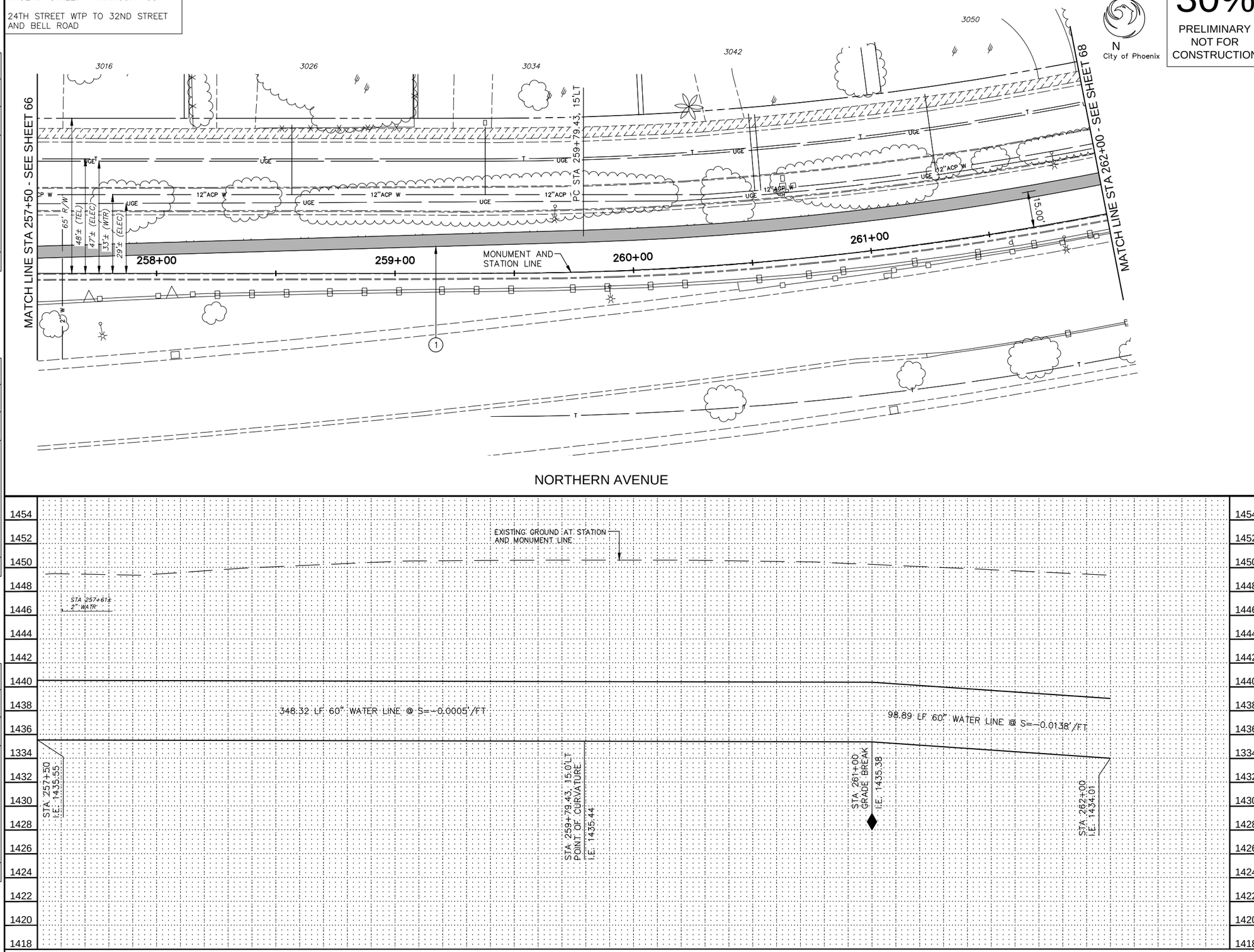
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	67	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	448

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	67	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

REVISION BY CITY OF PHOENIX					
NO.	DESCRIPTION	REV BY	CKD BY	DATE	

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REVISION BY CITY OF PHOENIX					
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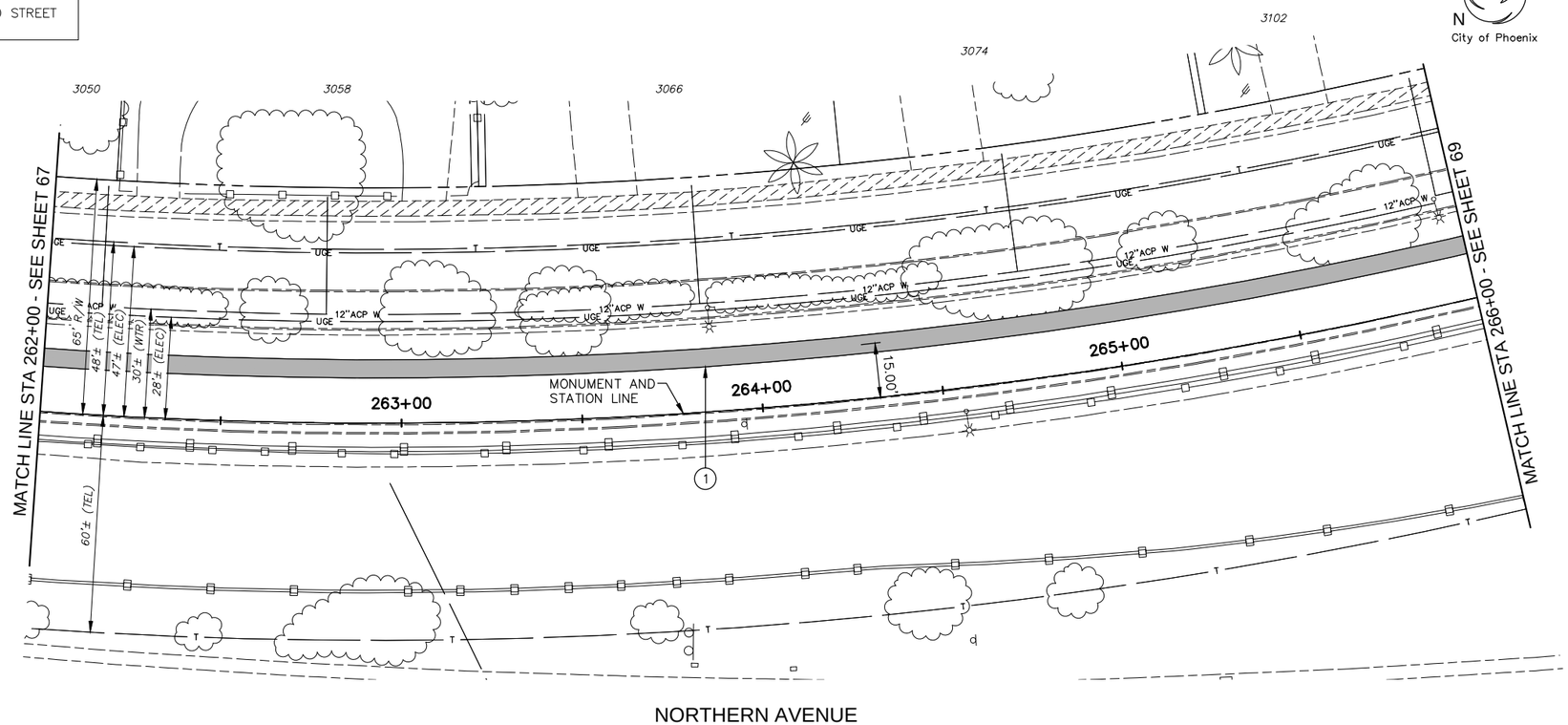

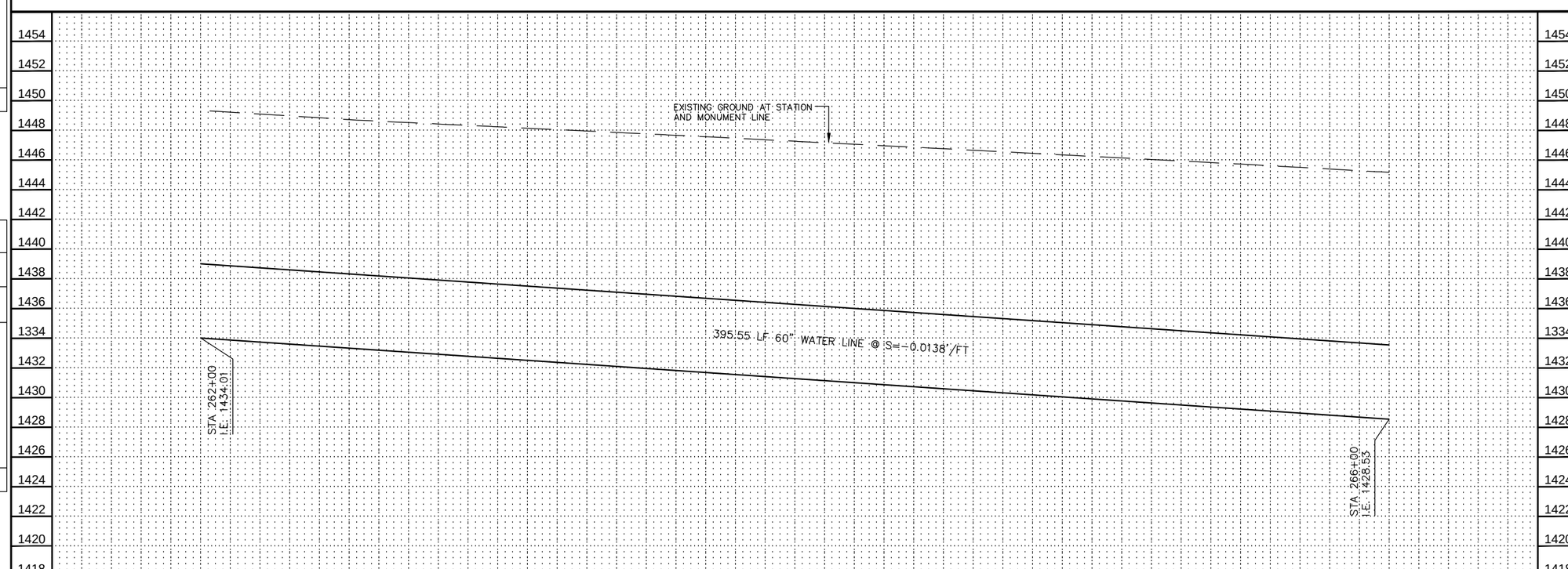

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	68	117

PEC
PROJECT ENGINEERING CONSULTANTS
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Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	396

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

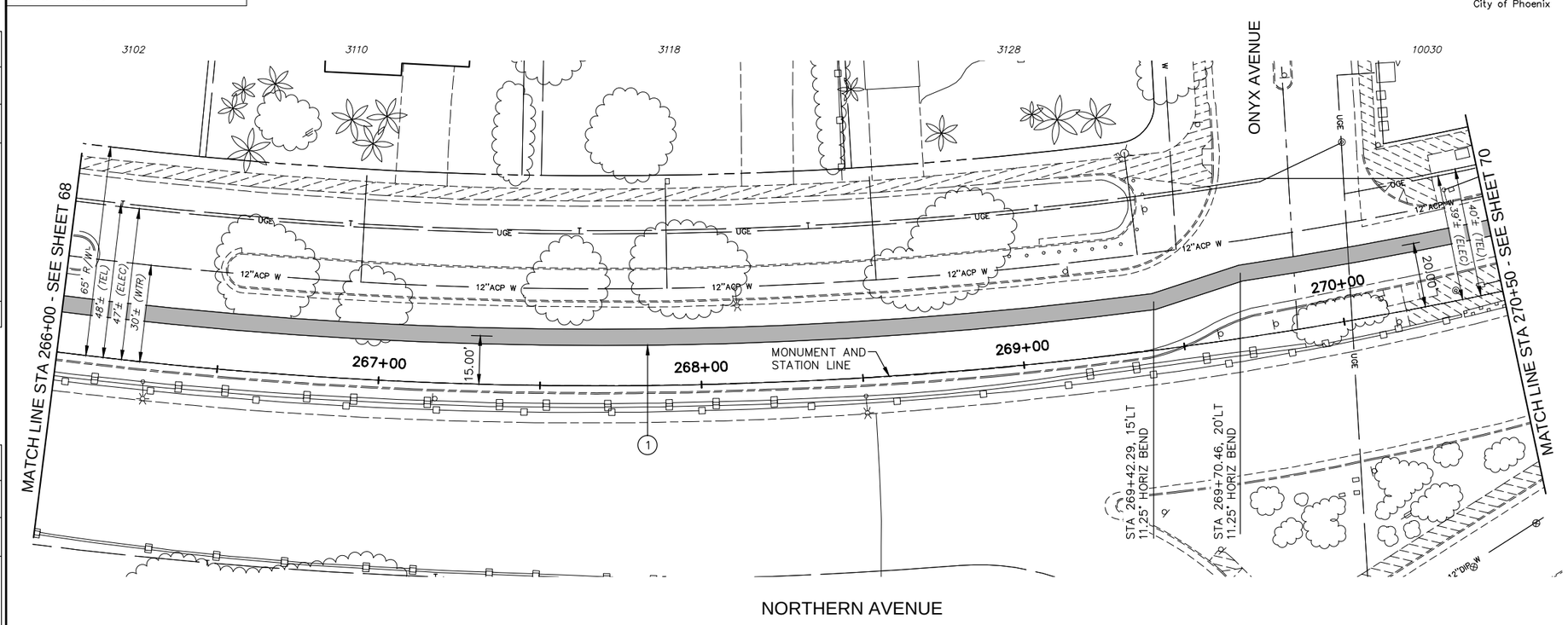
PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

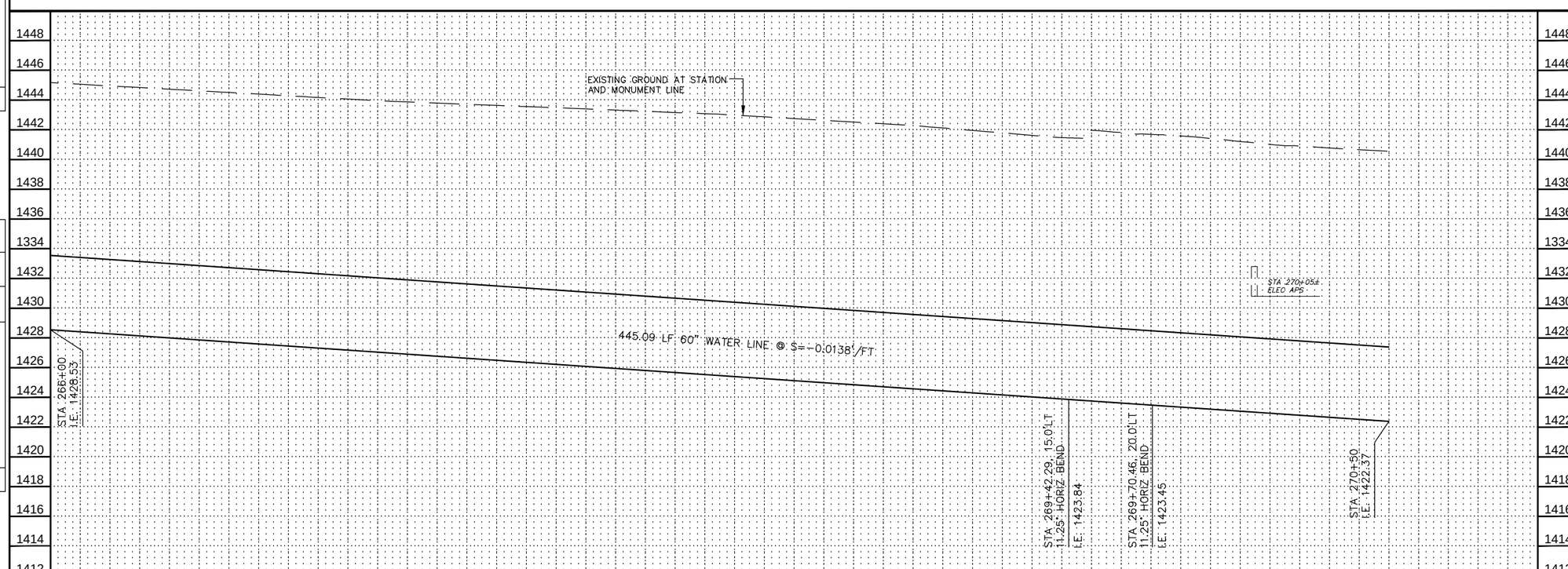
DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	68	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





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PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	69	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	446

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	69	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	70	117

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PROJECT ENGINEERING CONSULTANTS
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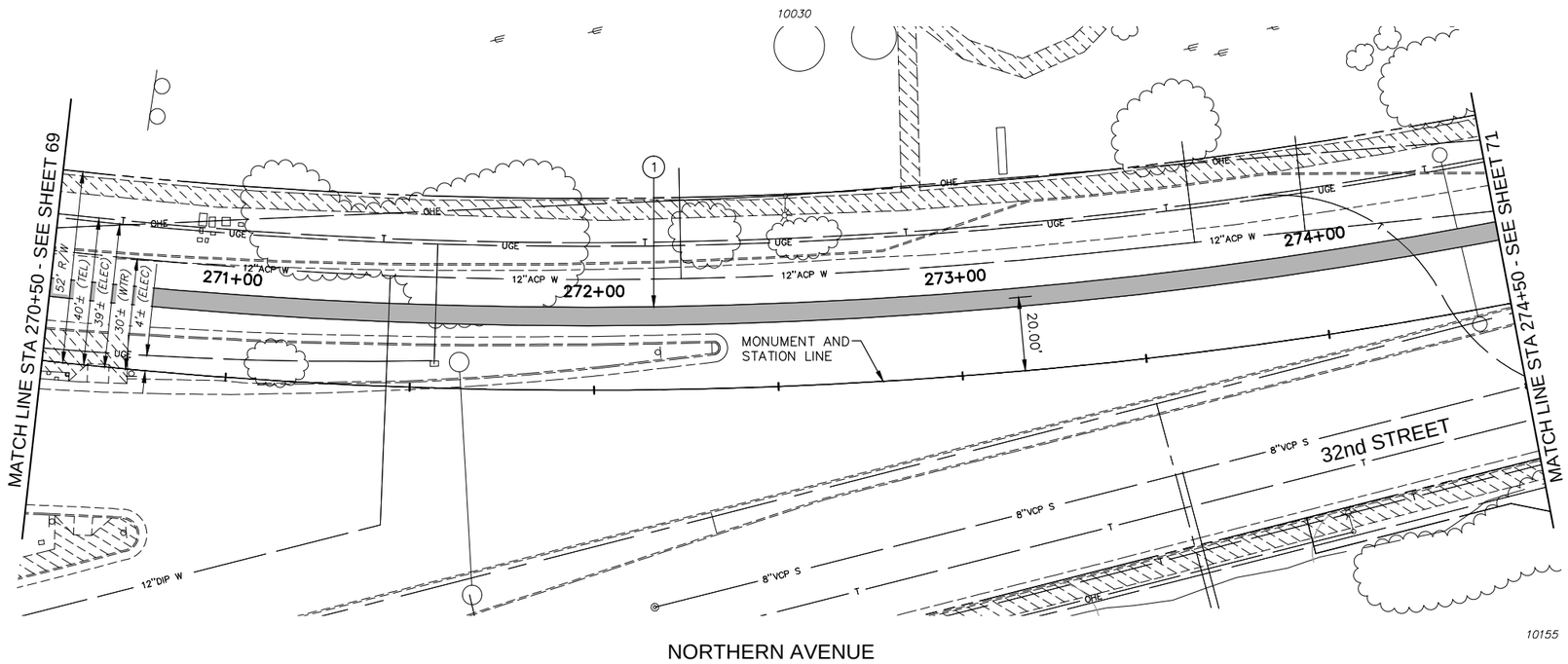

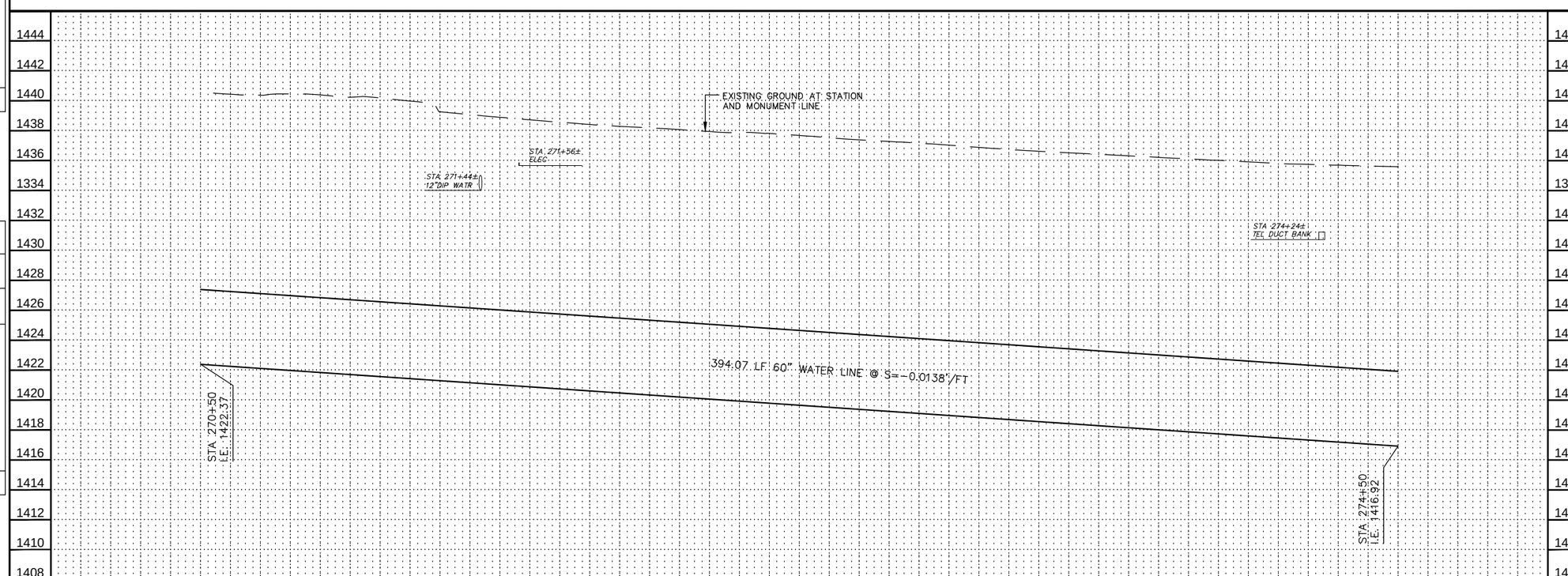

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	395

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	70	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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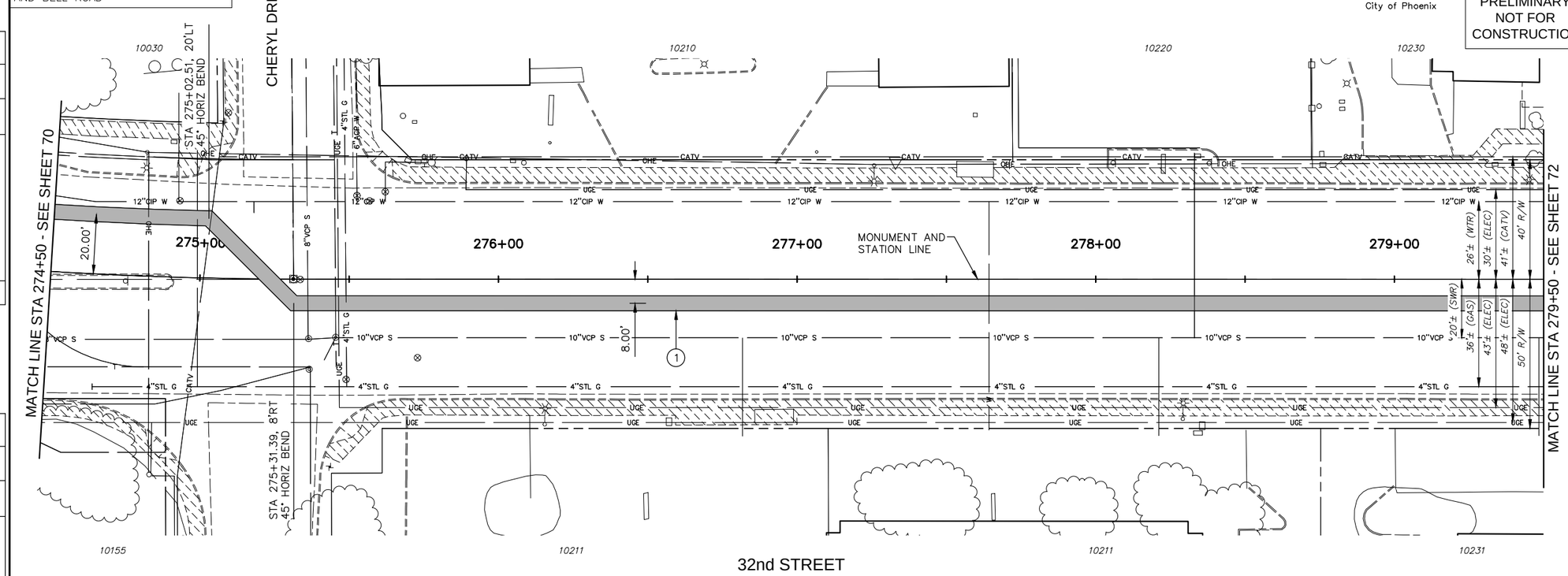
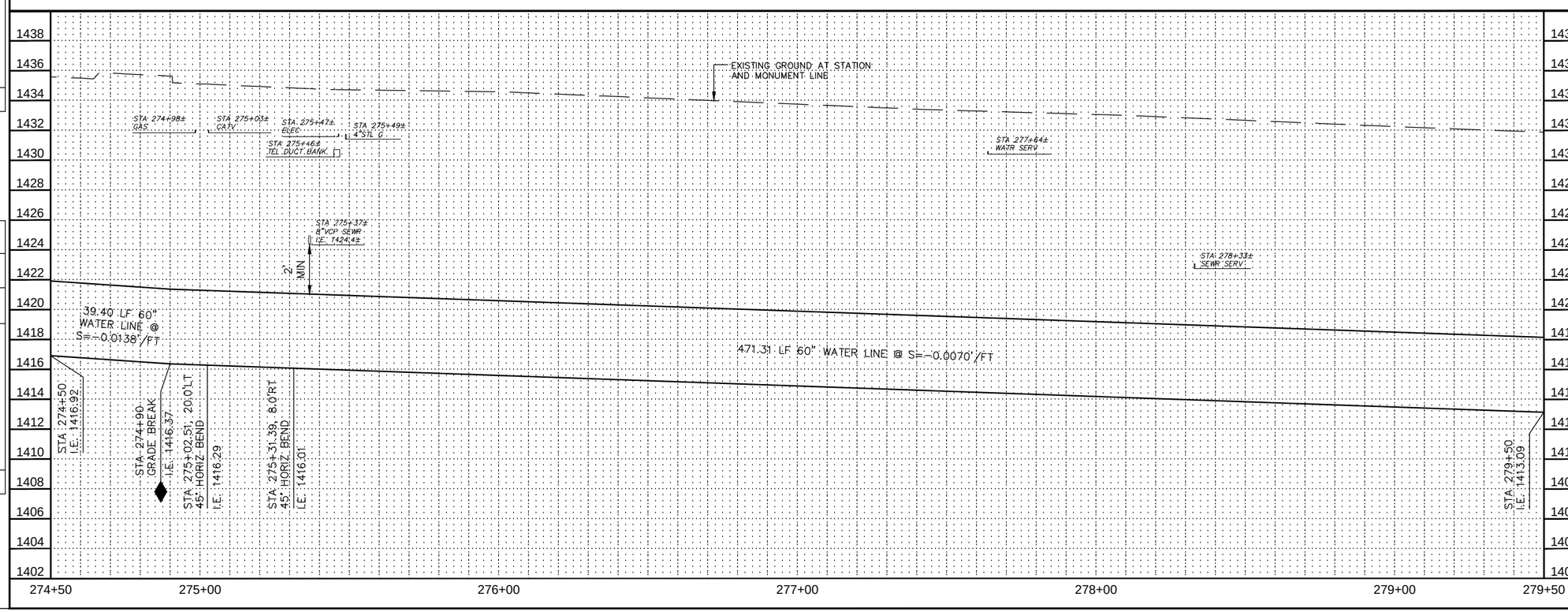
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





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30%

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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	71	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	512

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			71	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	72	117

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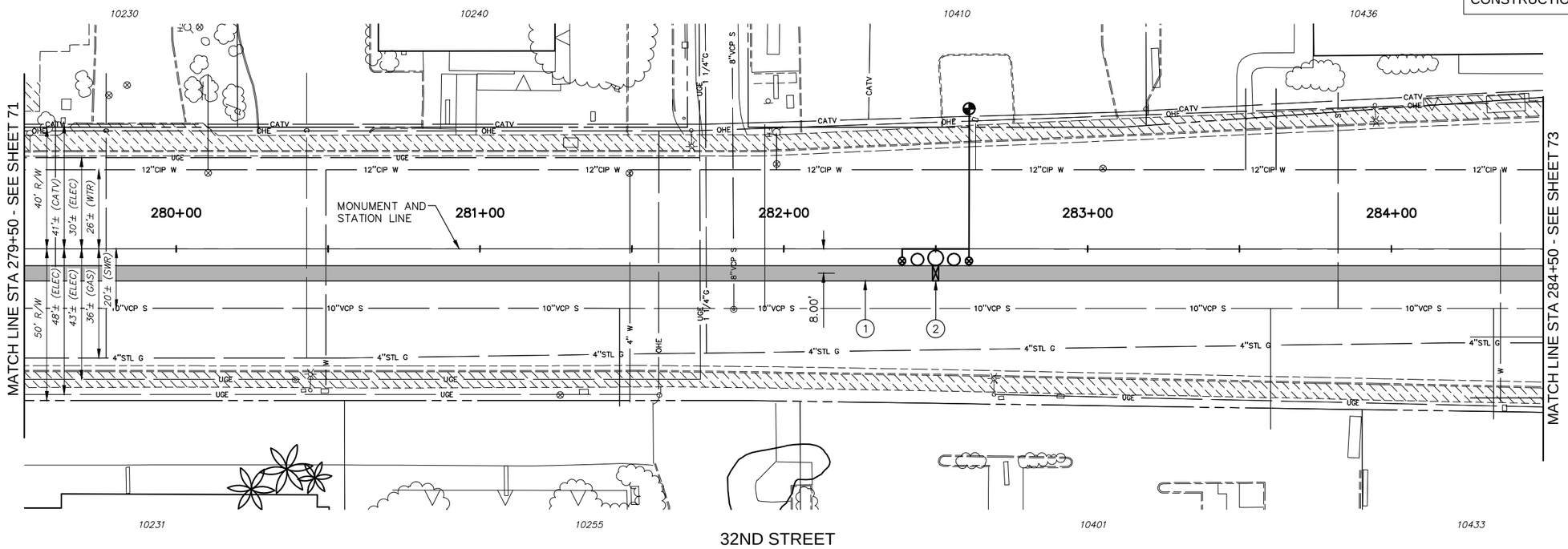
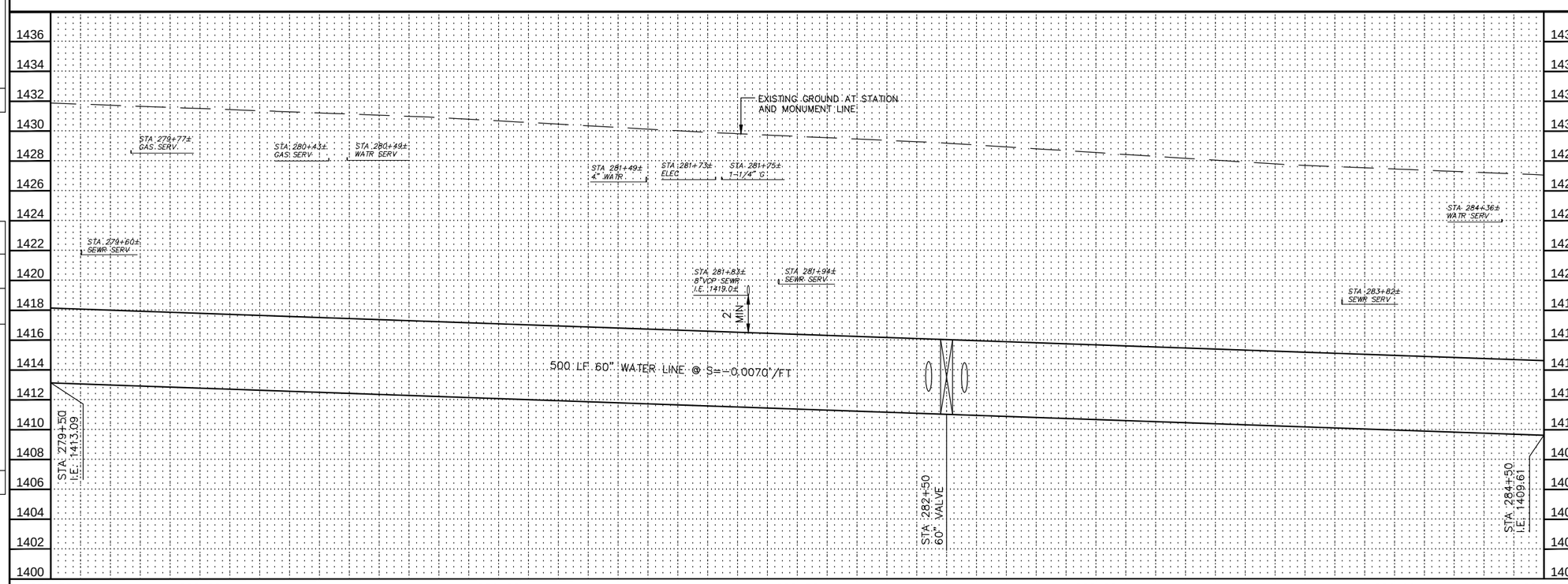
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	72	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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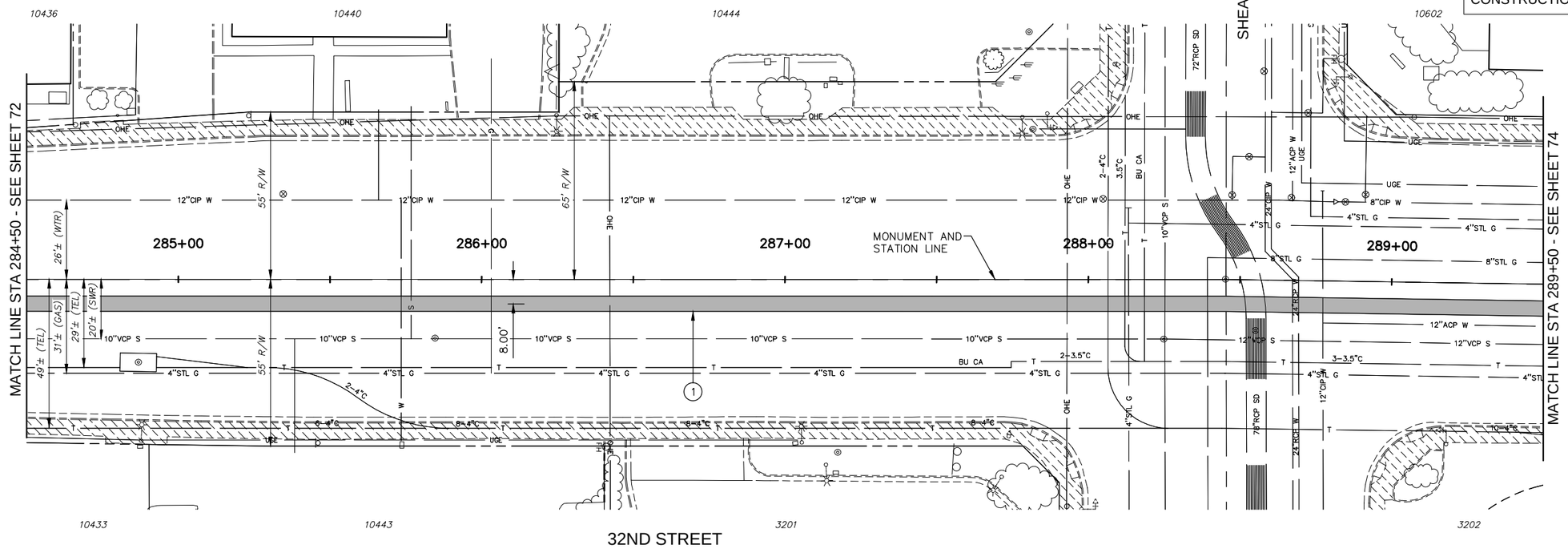

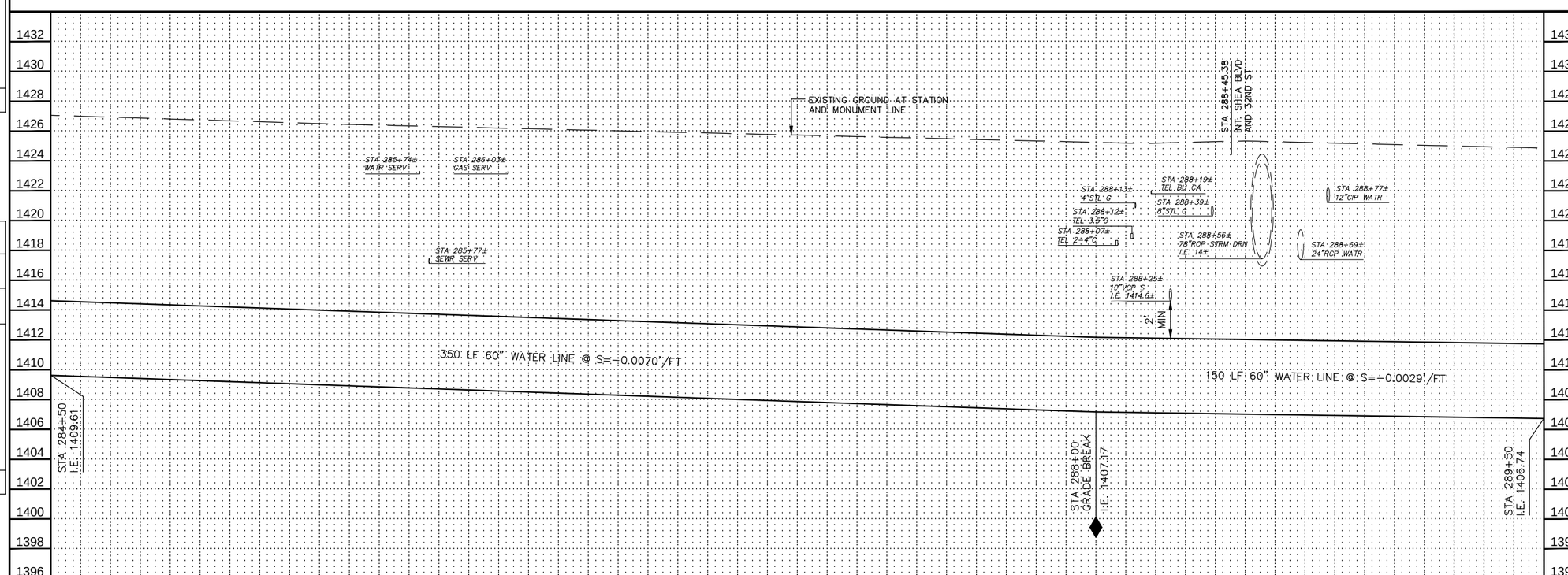

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			73	117

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

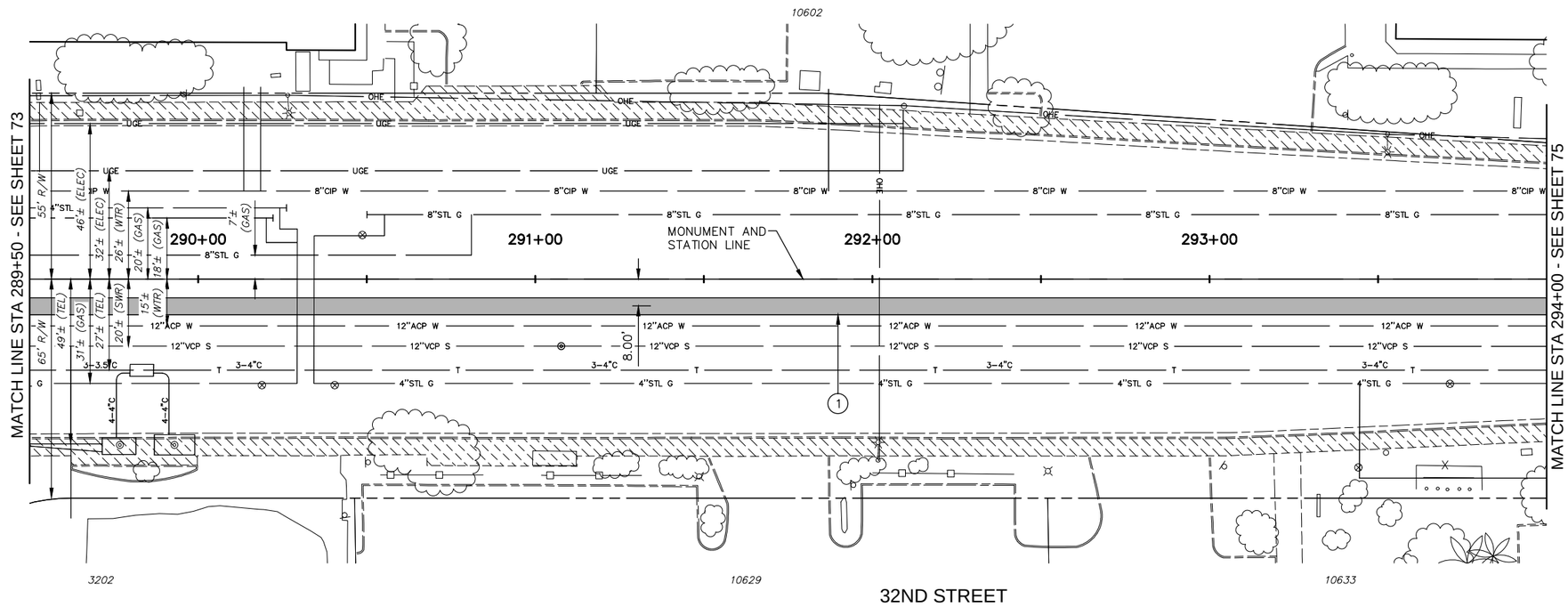
PRELIMINARY NOT FOR CONSTRUCTION

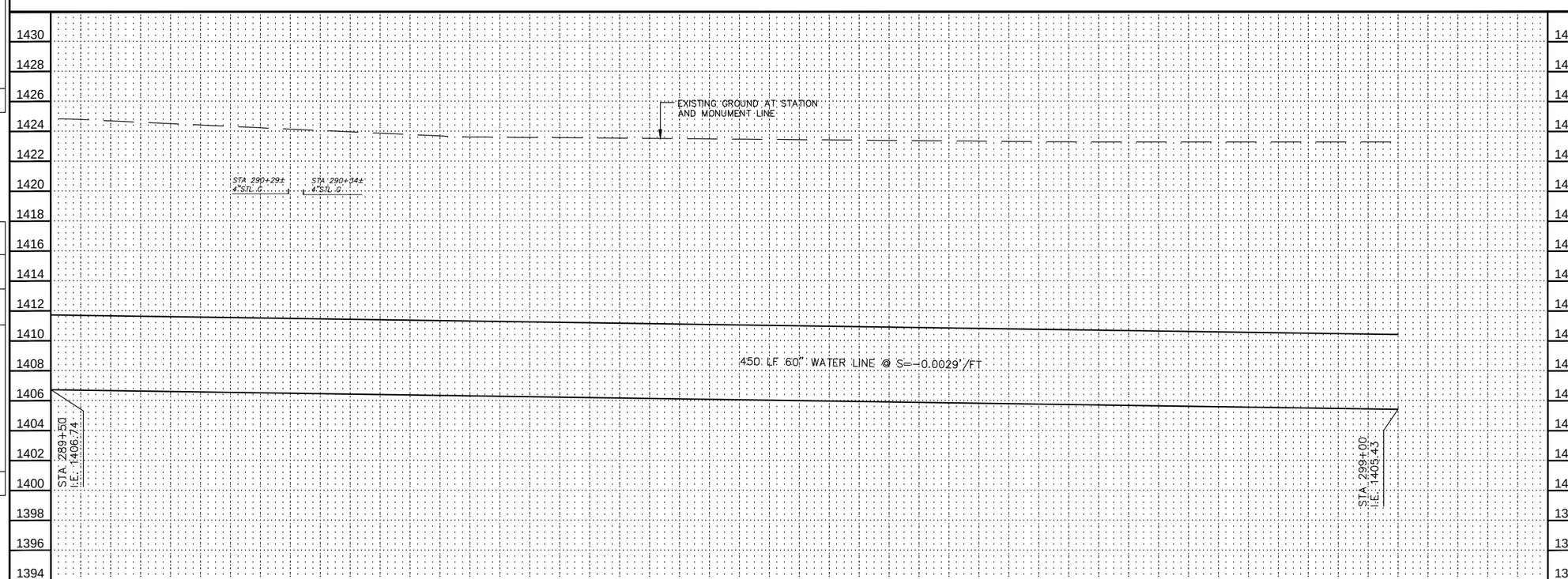
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	74	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450





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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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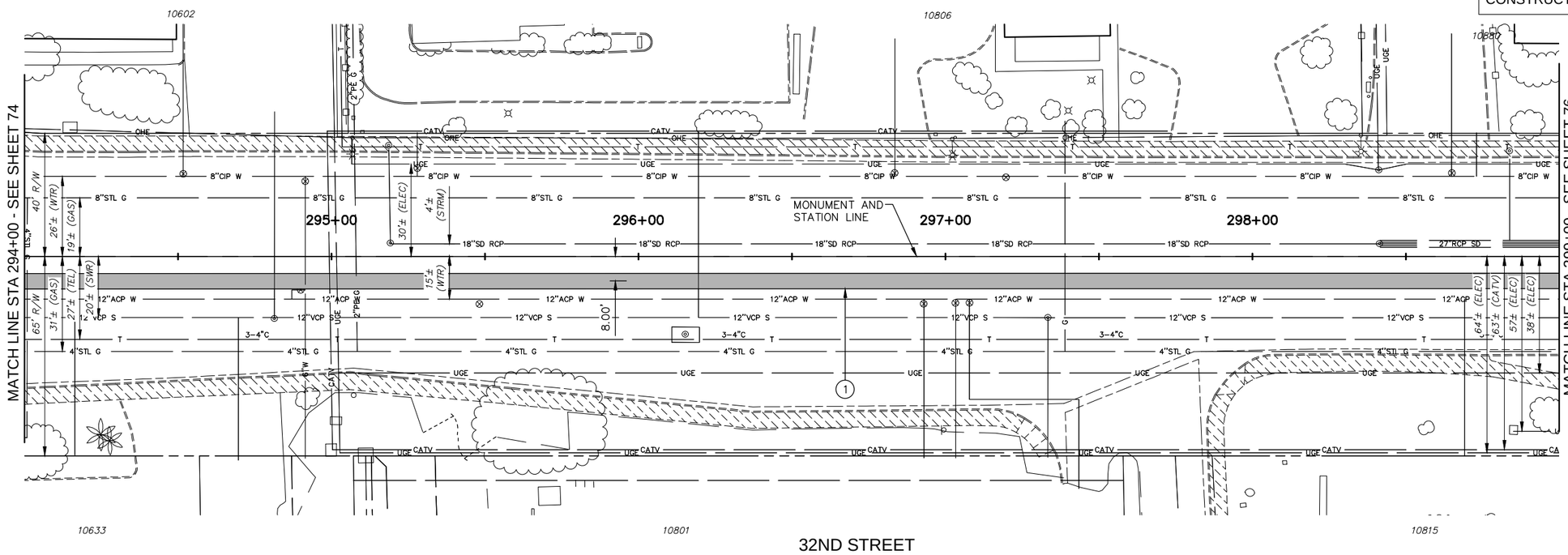
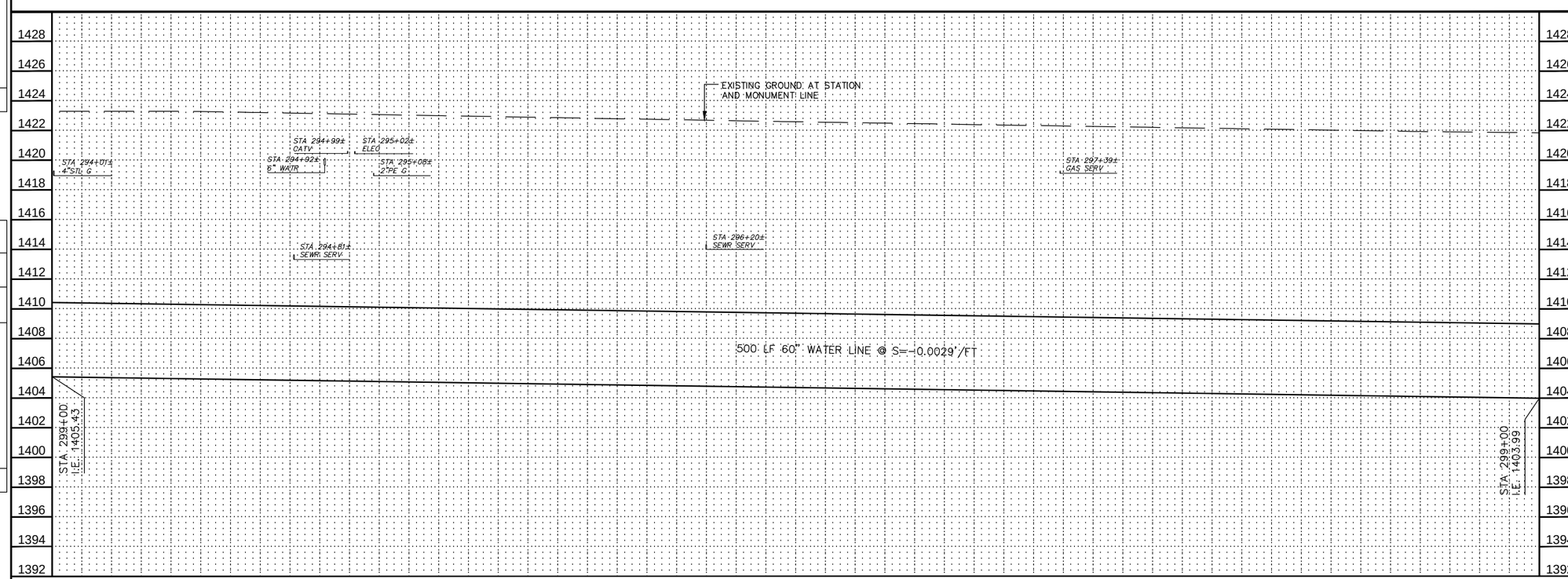
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD

WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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SCALE: HORIZ 1"=20' VERT 1"= 4'			75	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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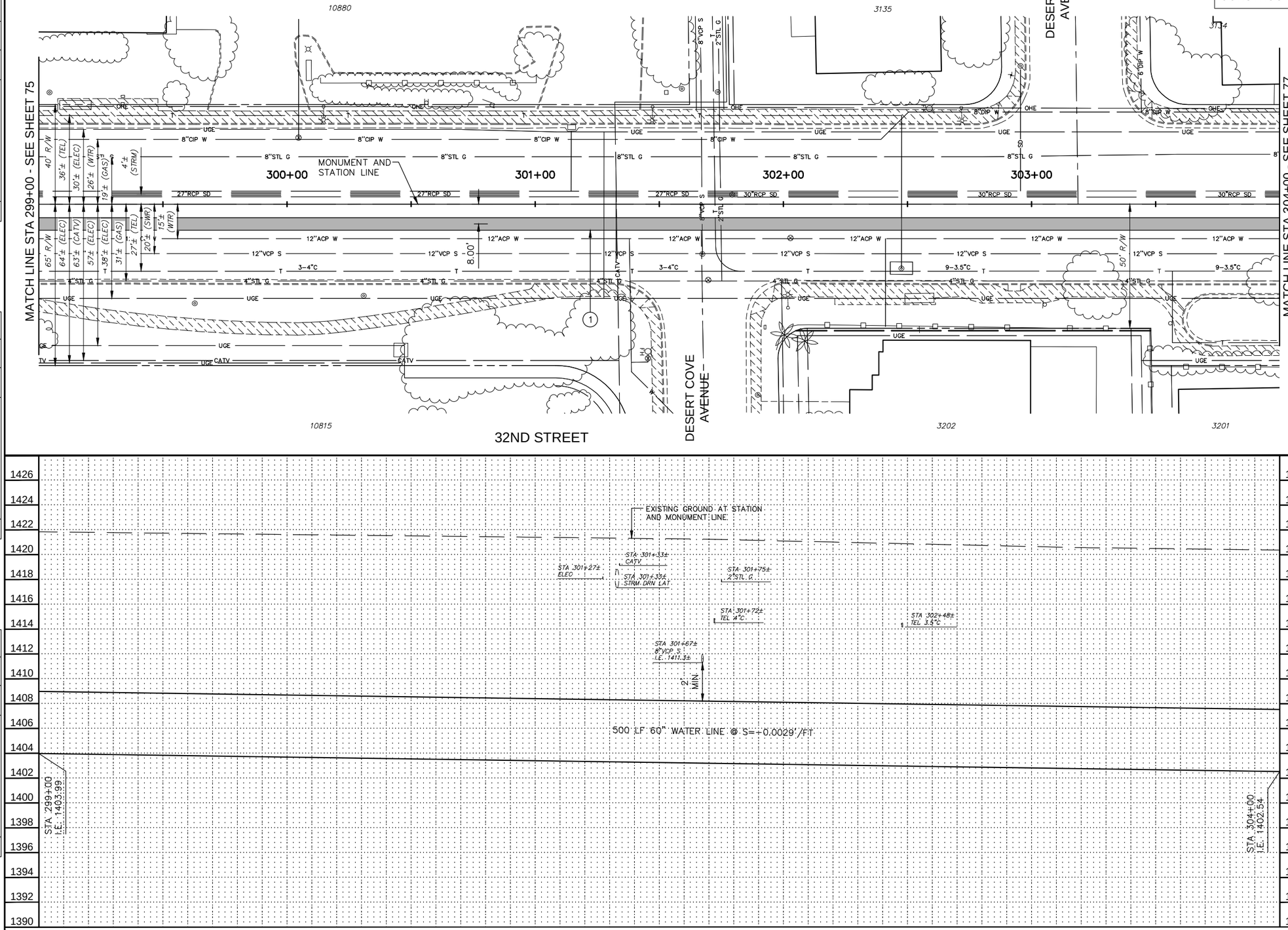
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



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CITY OF PHOENIX, ARIZONA
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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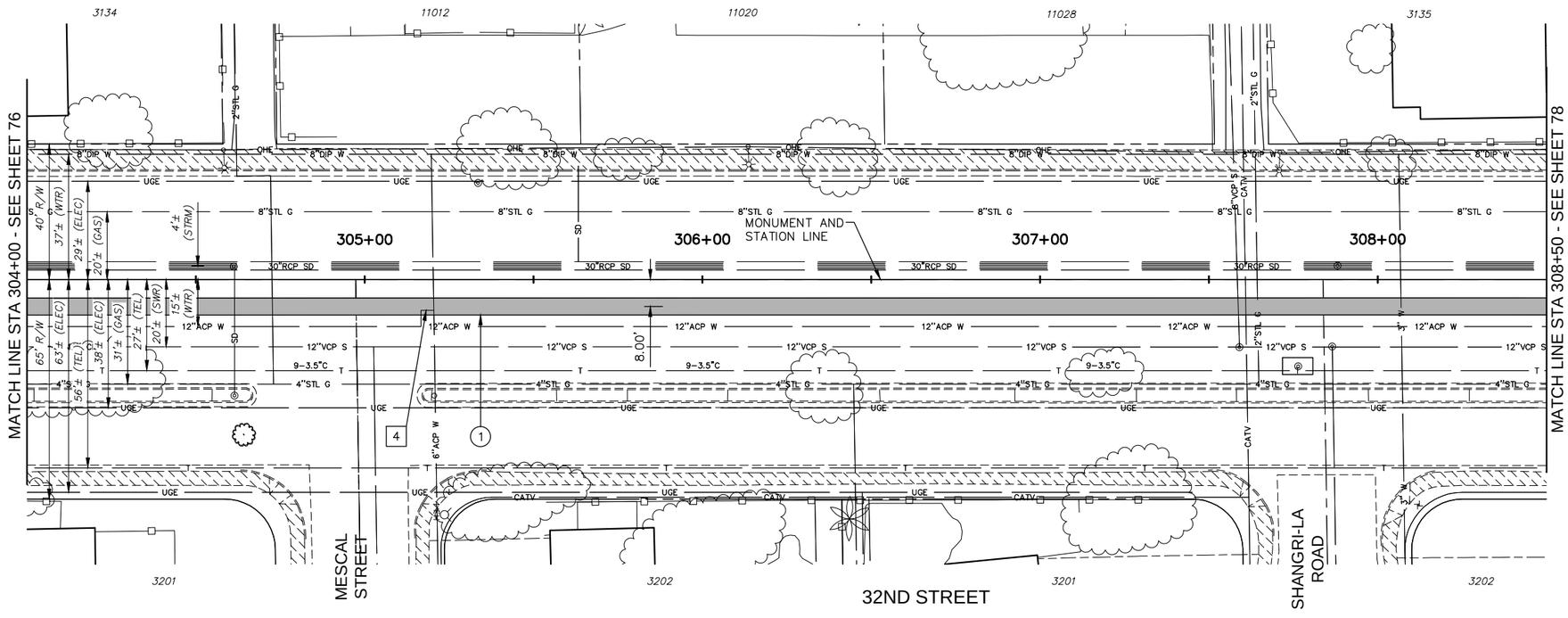

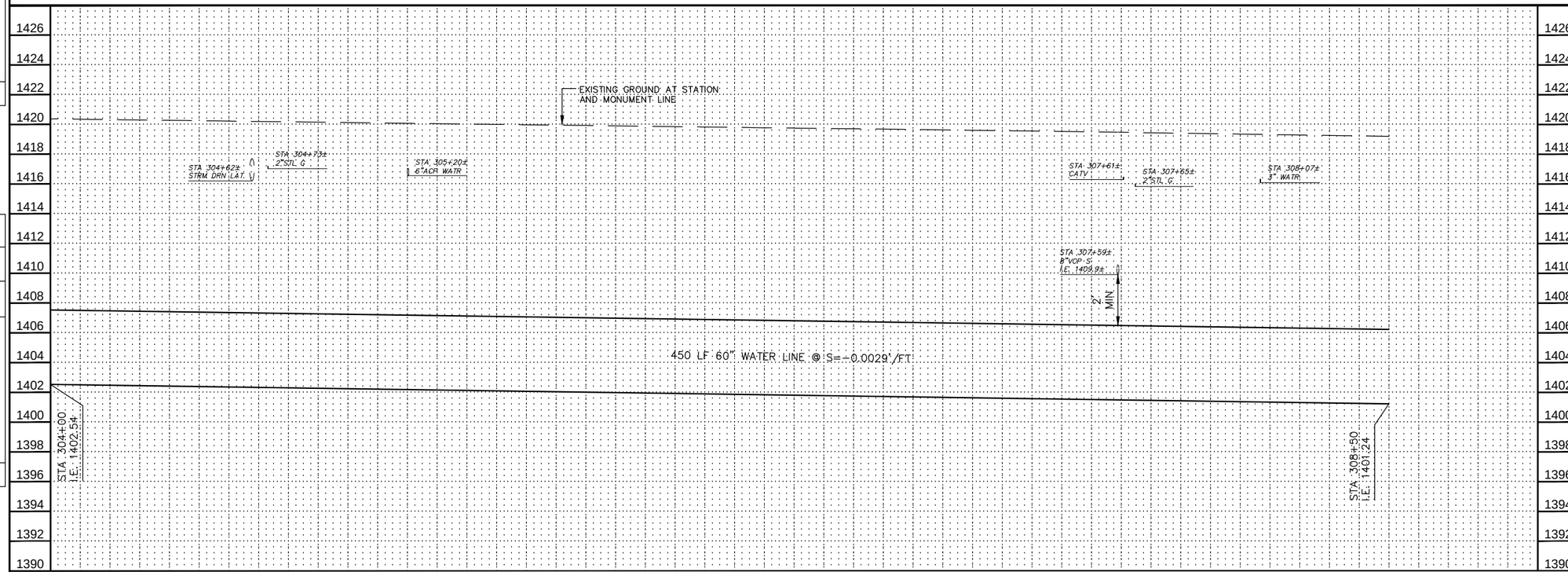

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
4	RELOCATE 12" ACP WATER LINE CONNECTION TO 6" ACP WATER LINE	EA	1

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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CONSTRUCTION NOTES

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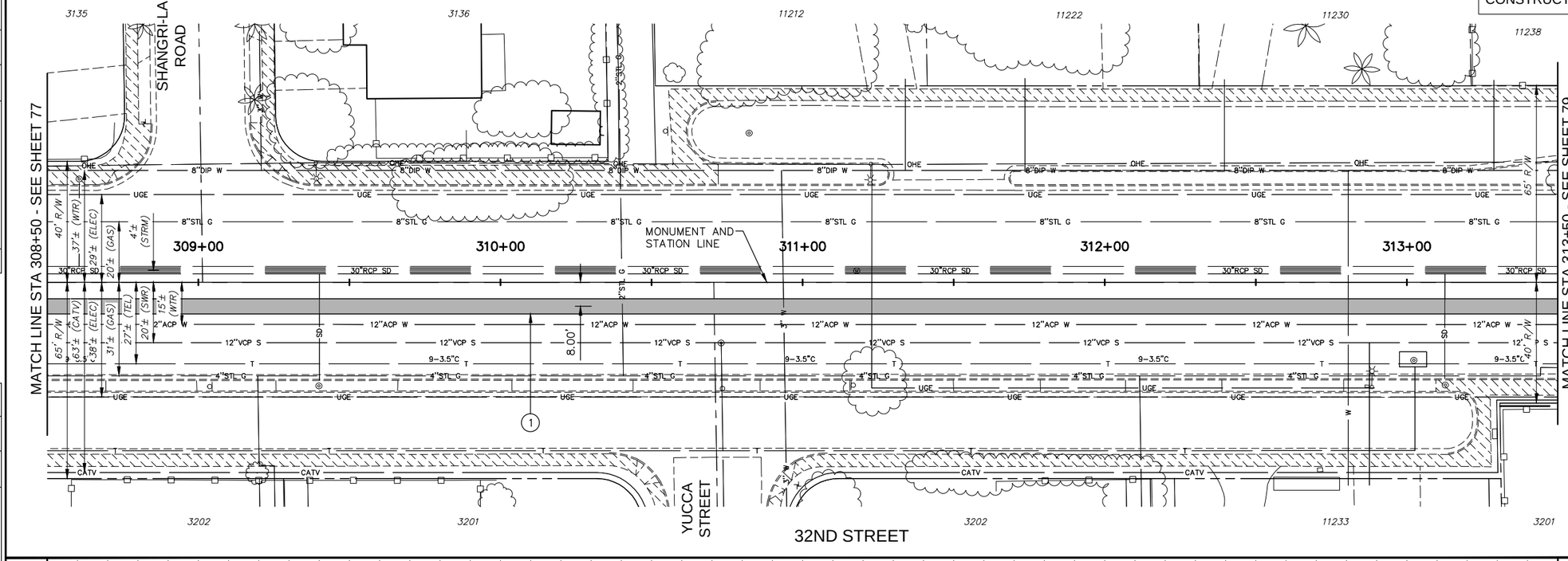

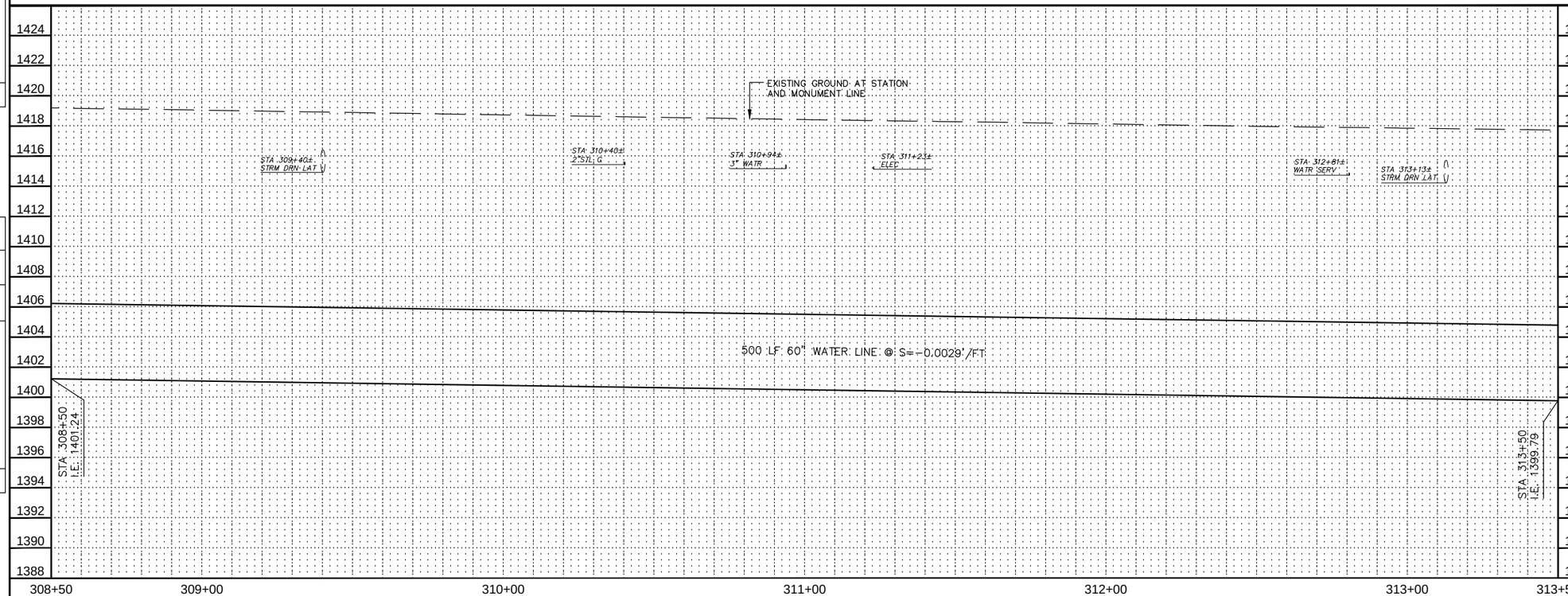

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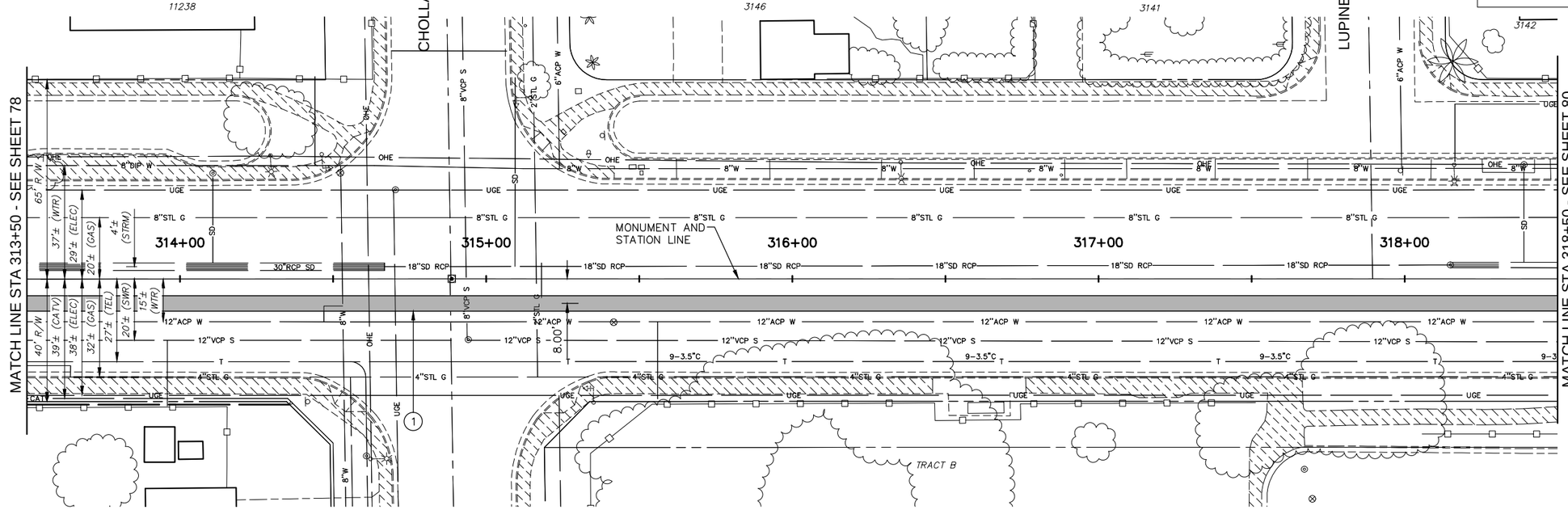
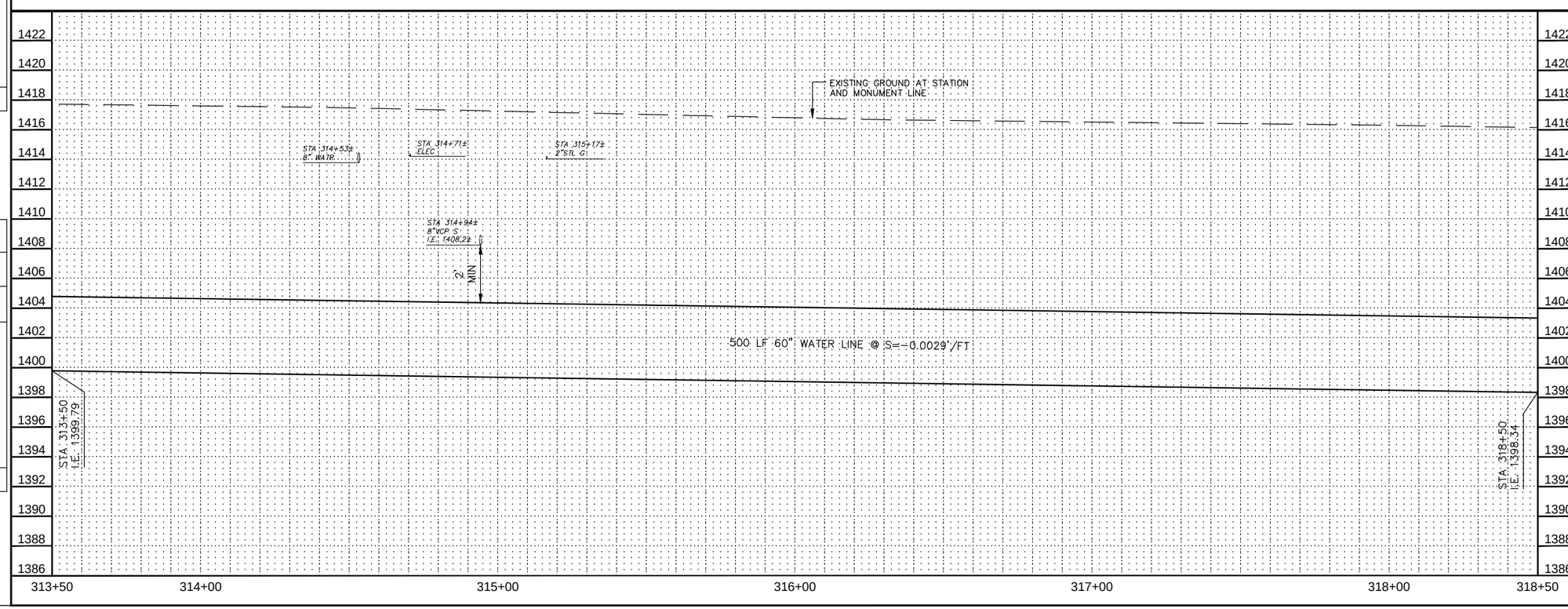
24TH STREET WTP TO 32ND STREET AND BELL ROAD





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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30%

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PEC
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Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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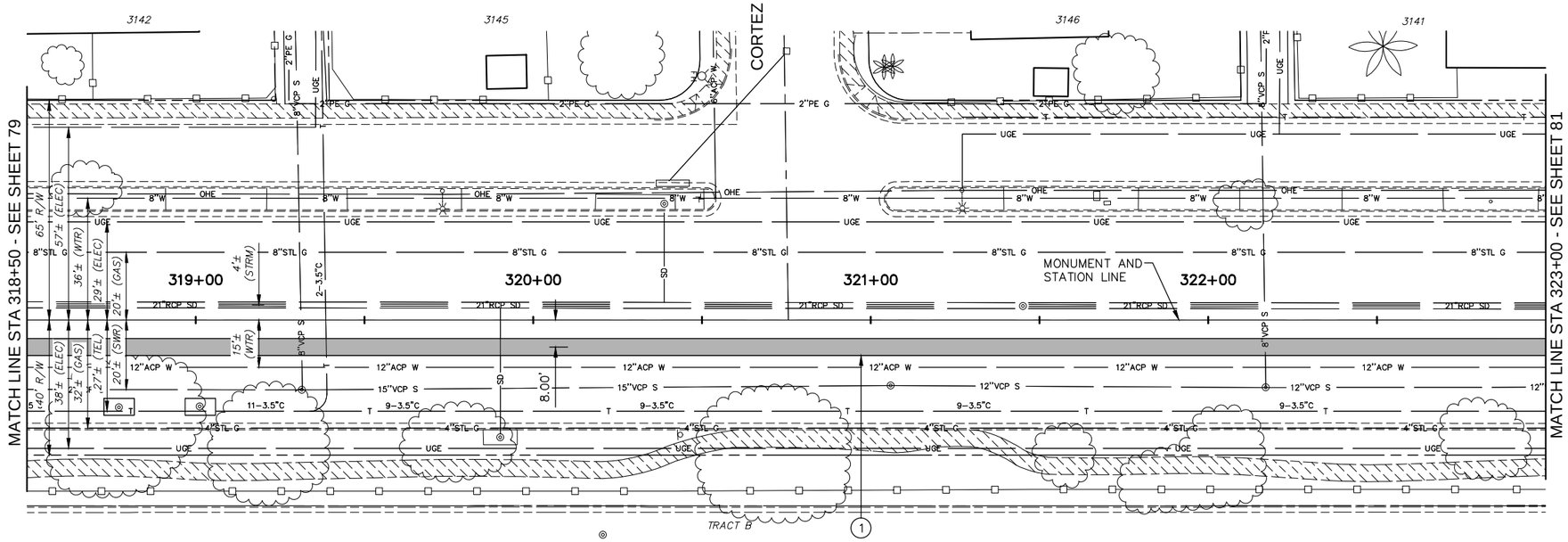

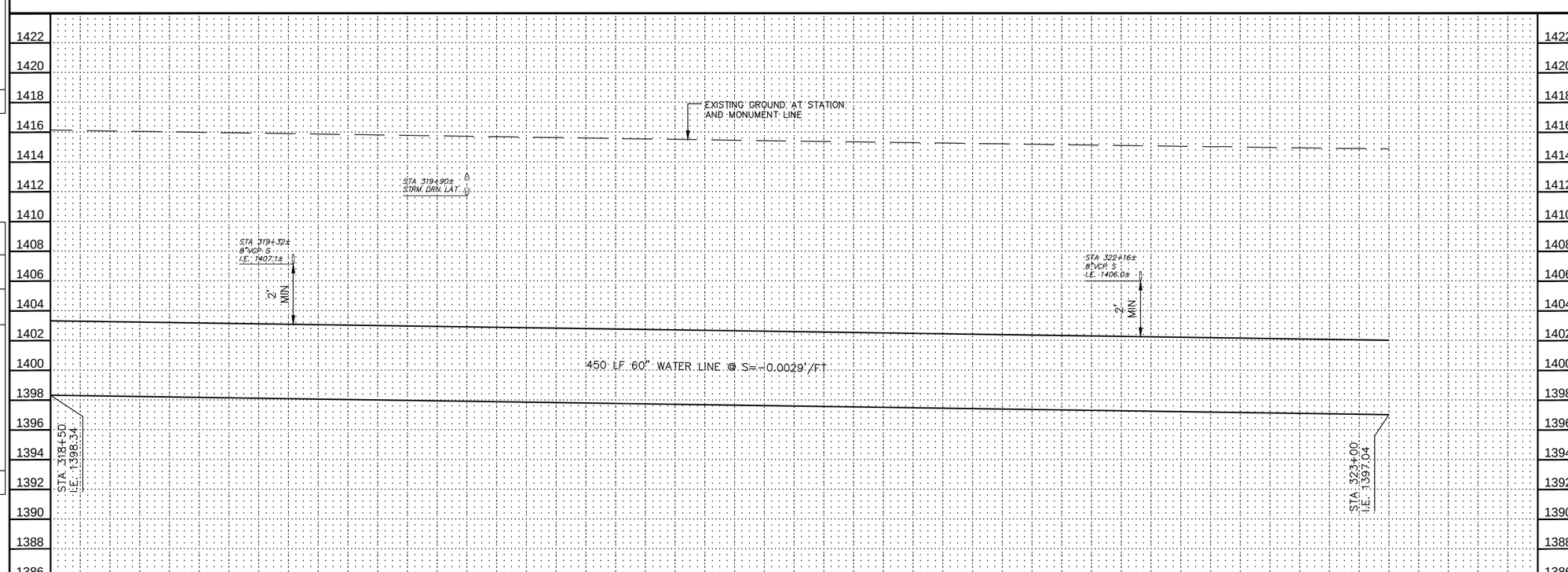

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	80	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

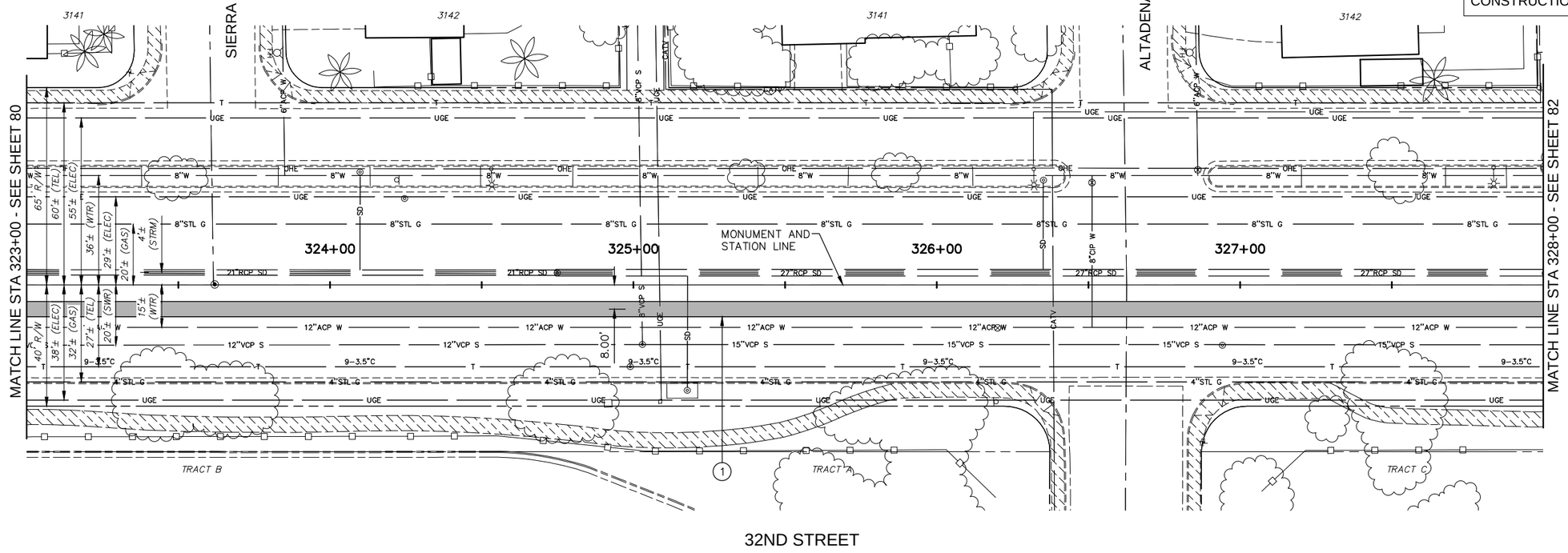
REVISION BY CITY OF PHOENIX

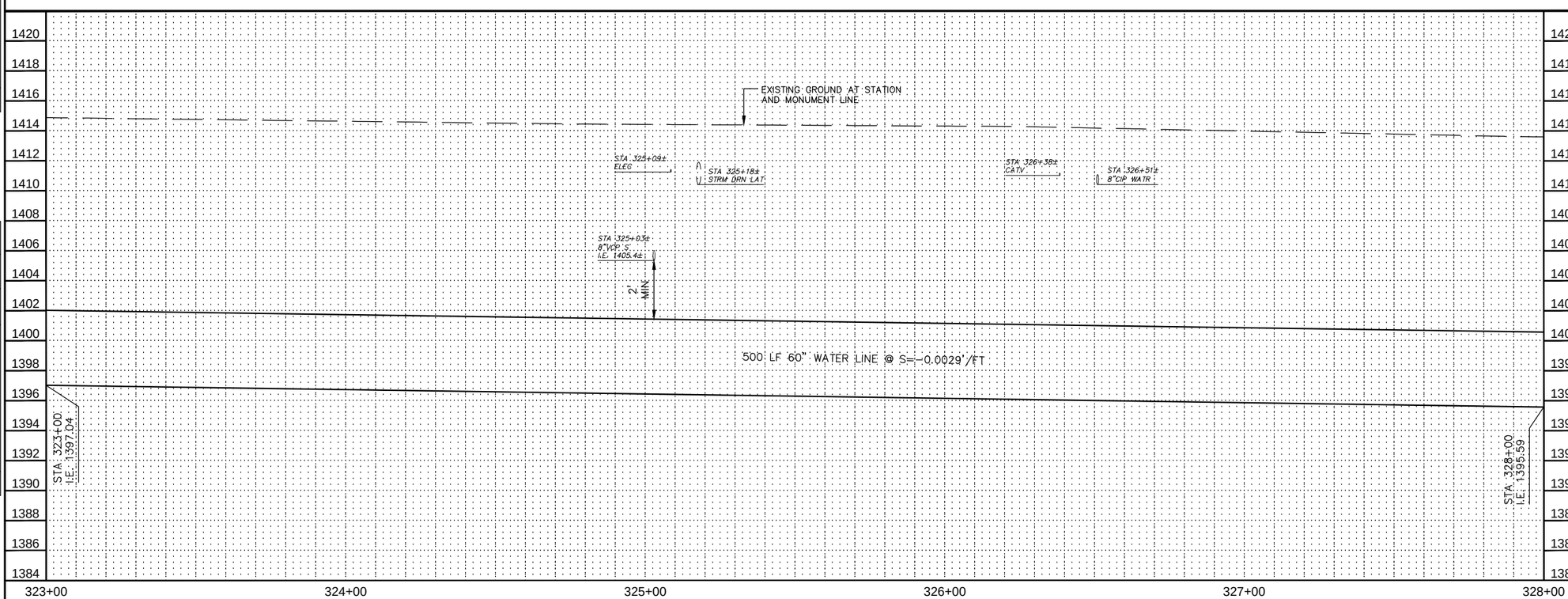
NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	81	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	82	117

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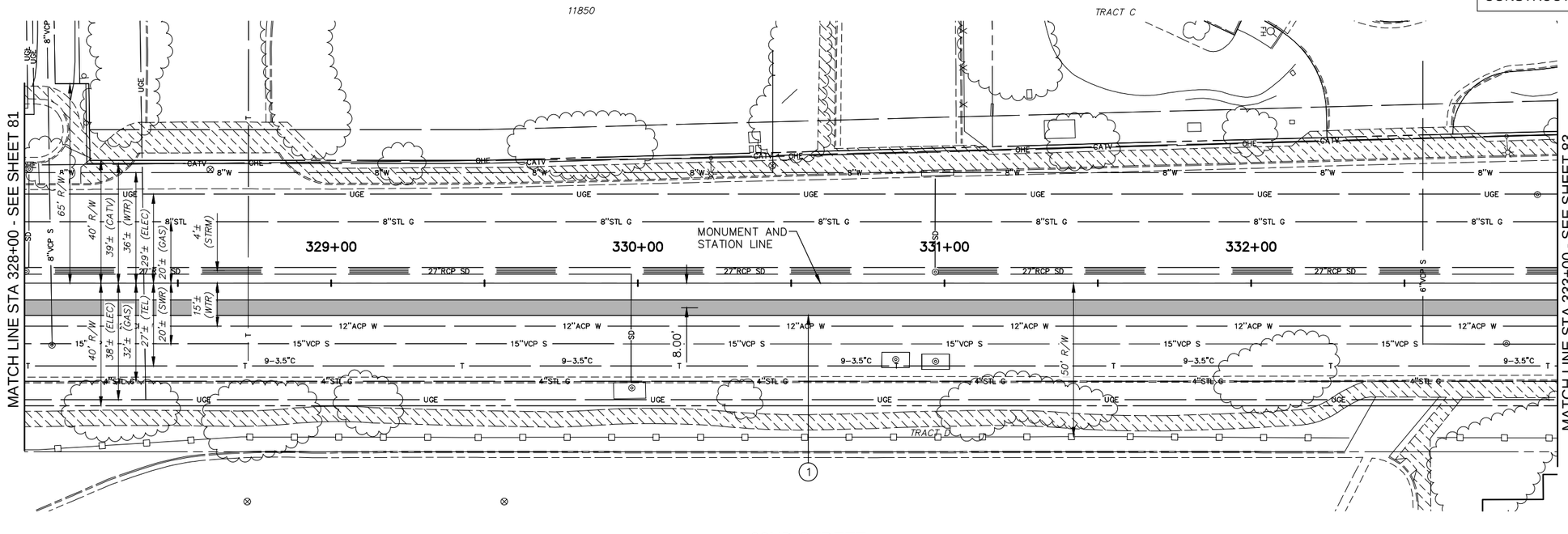
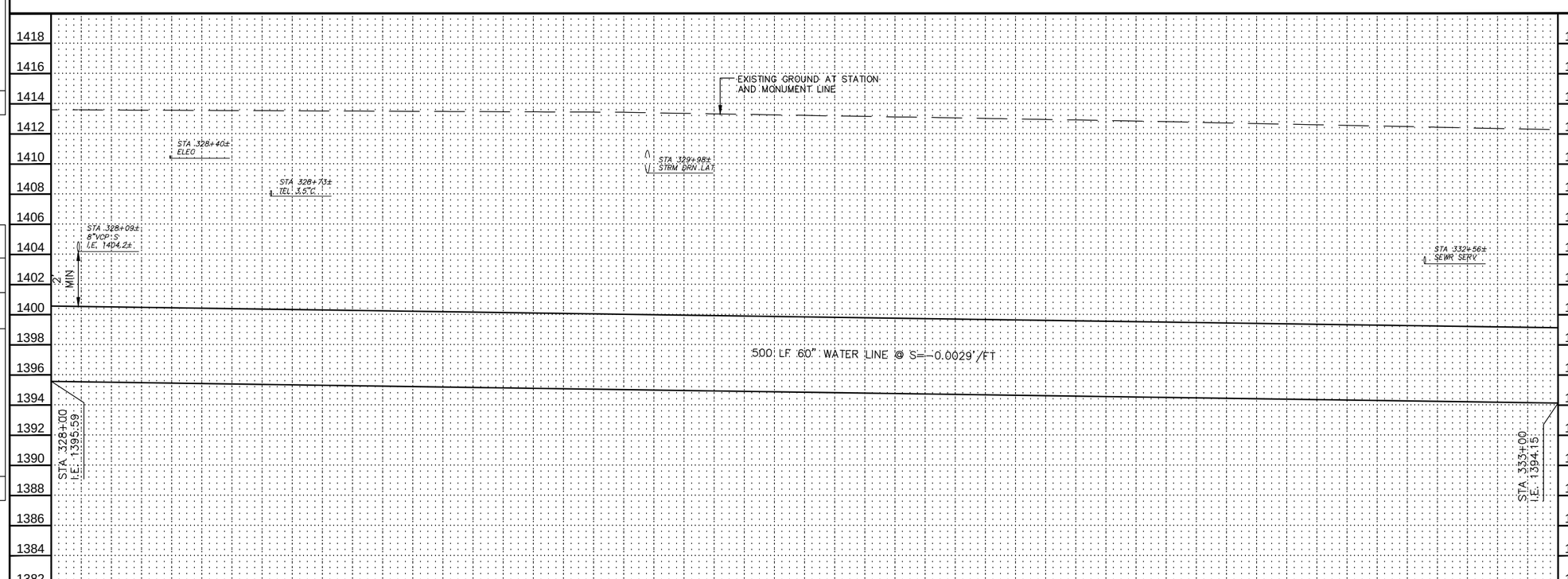
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



32ND STREET



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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DATE: 05/18	DATE: 05/18	DATE: 05/18	82	117
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	83	117

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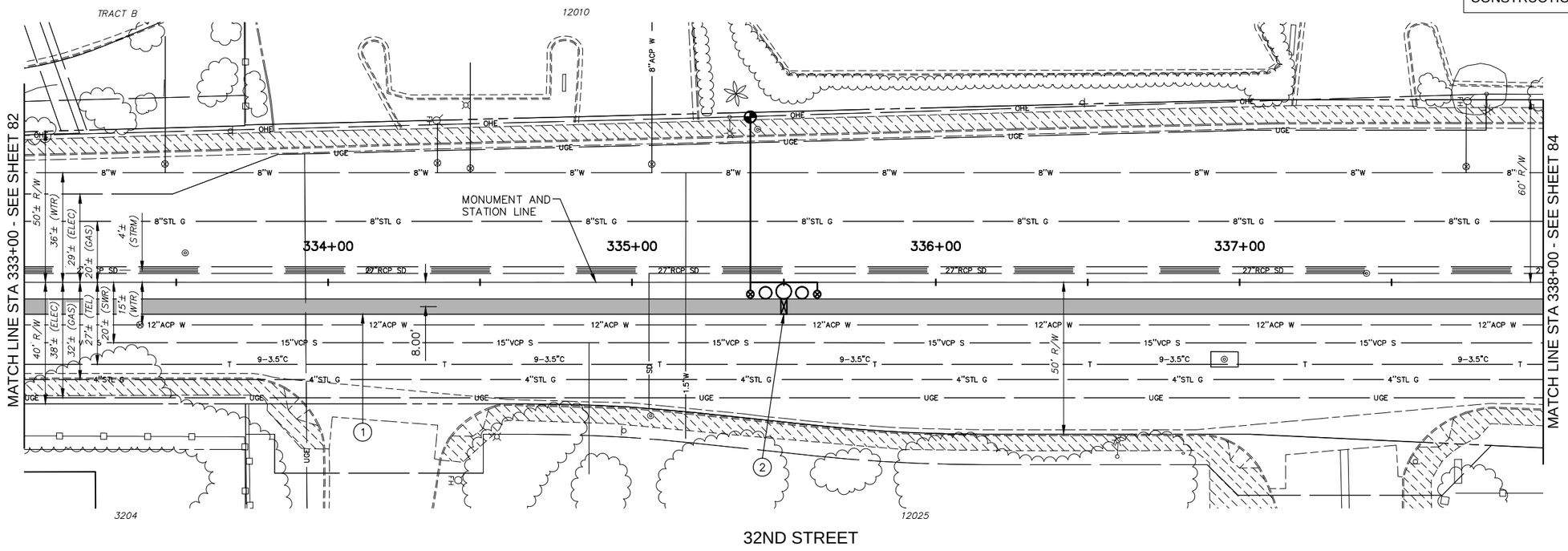

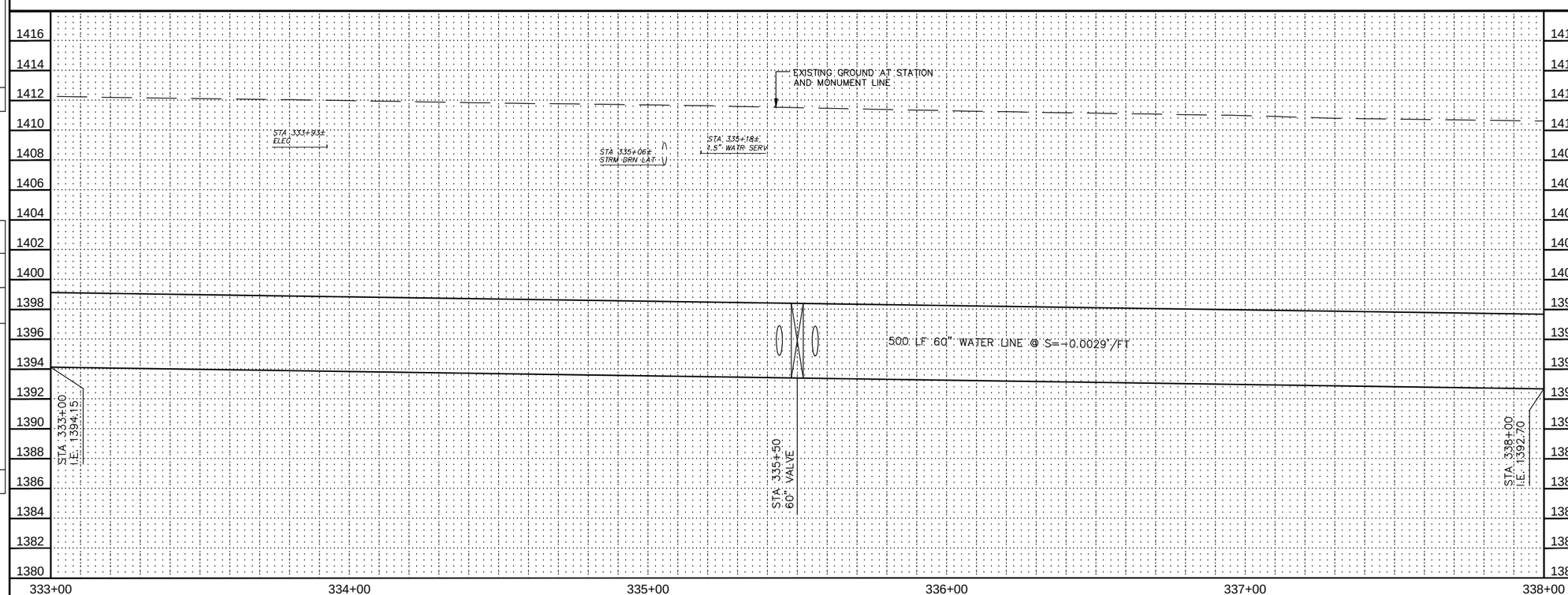

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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SCALE: HORIZ 1"=20' VERT 1"= 4'			83	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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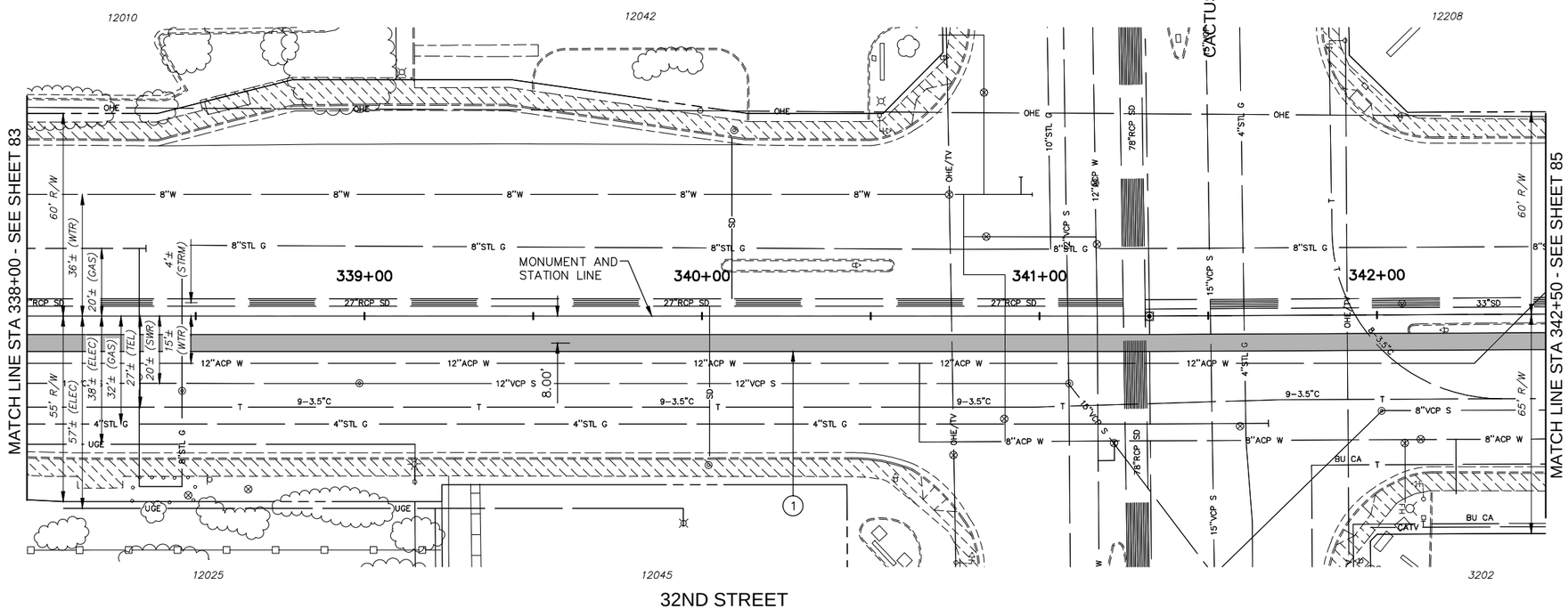

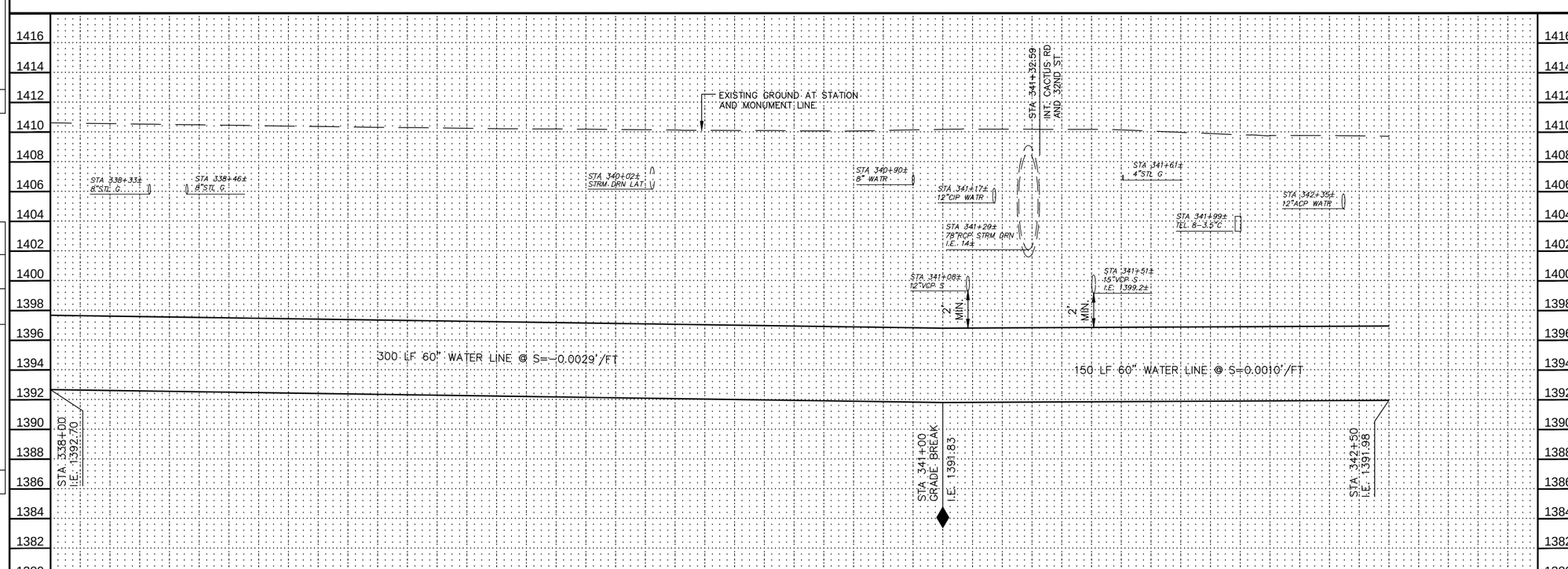

CONSTRUCTION NOTES

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1	INSTALL 60" WATER LINE	LF	450

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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DATE: 05/18	DATE: 05/18	DATE: 05/18	84	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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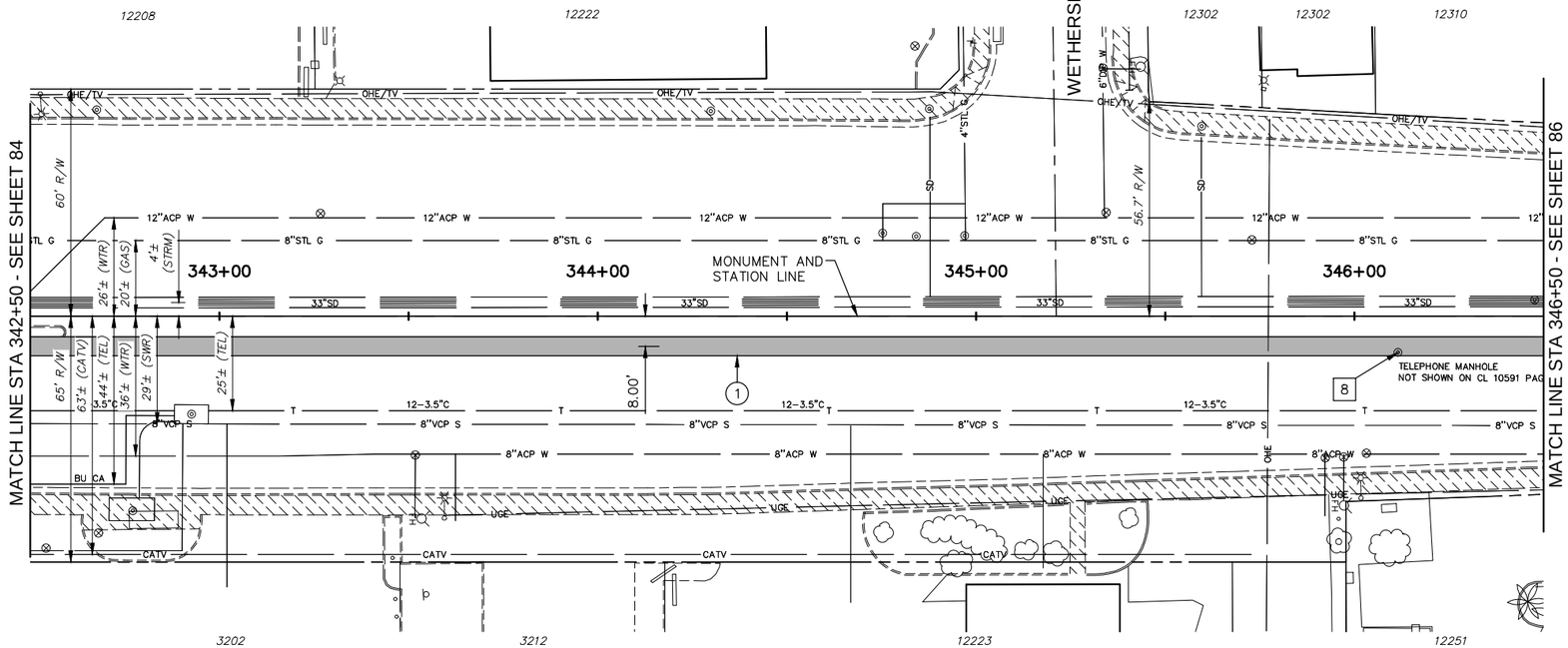
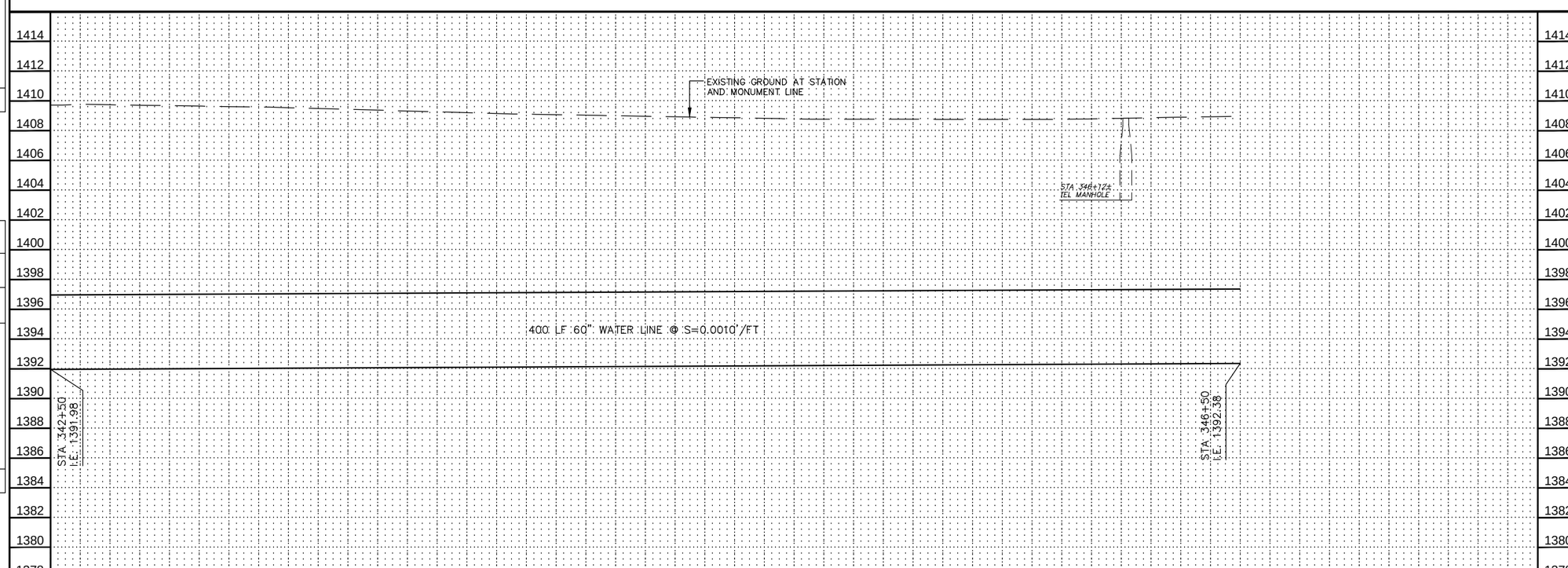
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	85	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
8	RELOCATE TELEPHONE MANHOLE AND TELEPHONE LINES	EA	1

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
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PIPELINE ALIGNMENT

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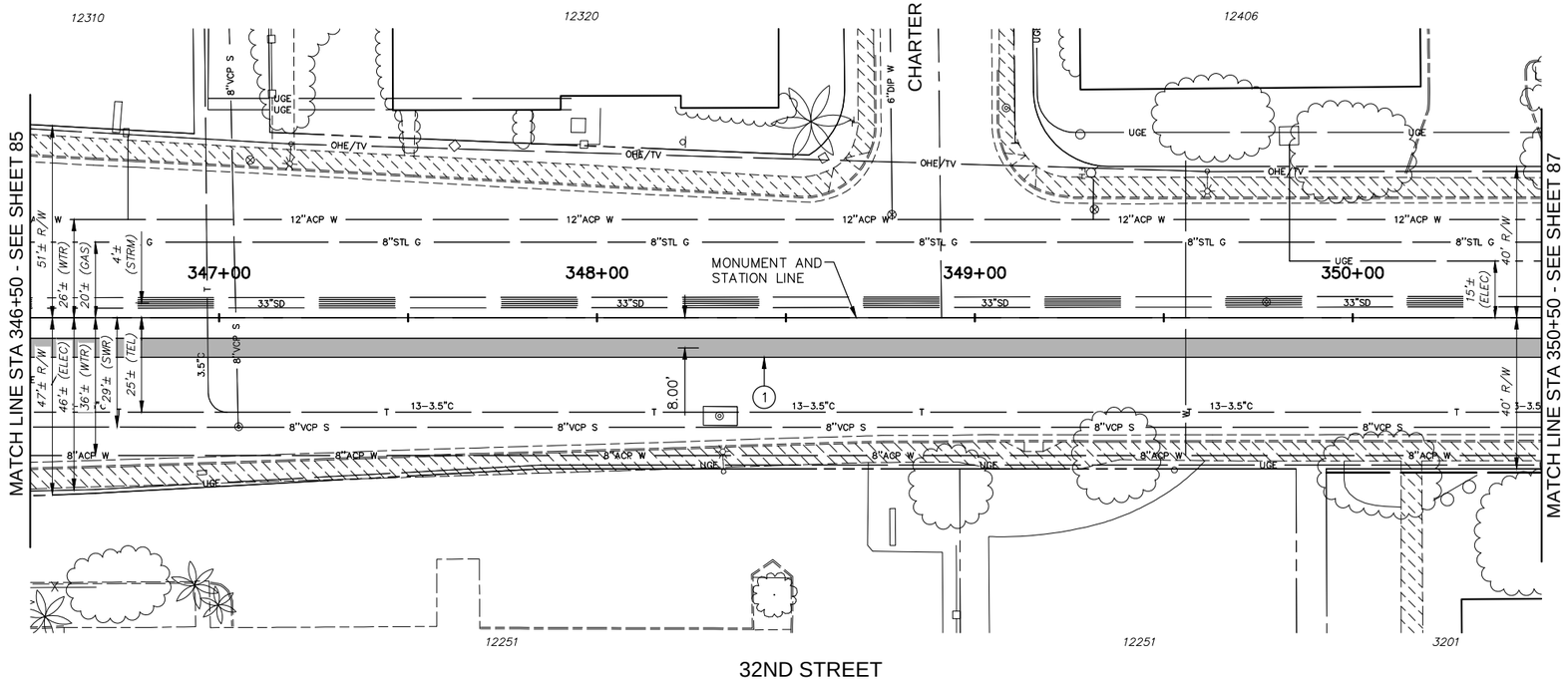
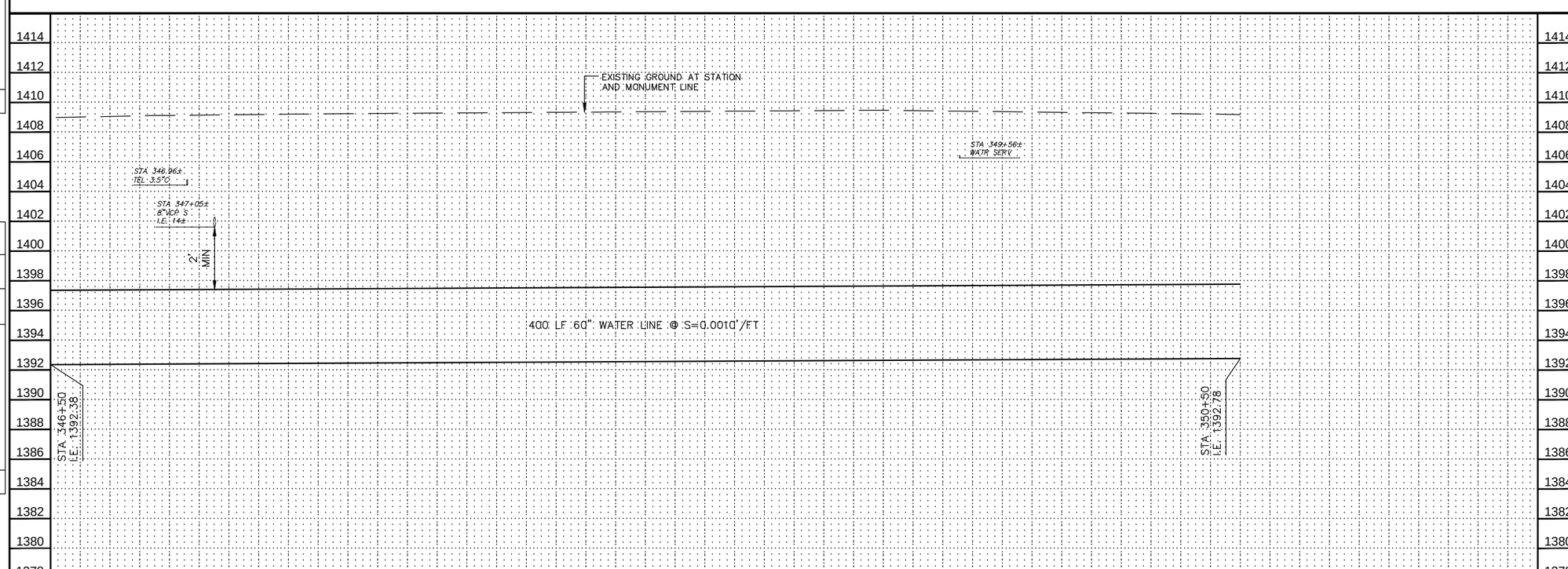
24TH STREET WTP TO 32ND STREET AND BELL ROAD





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PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
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STREET TRANSPORTATION DEPARTMENT

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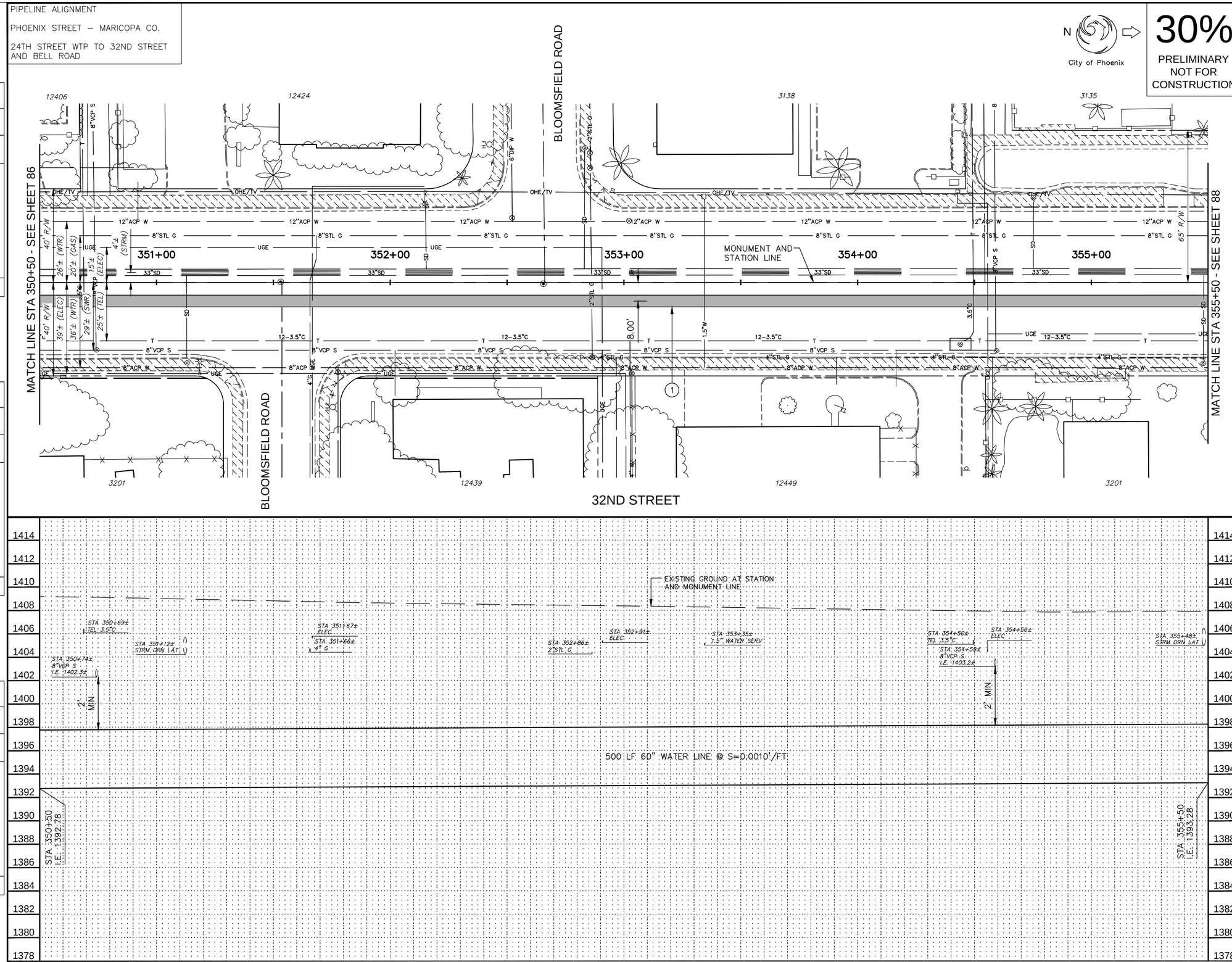

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PEC
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CONSTRUCTION NOTES

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			87	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

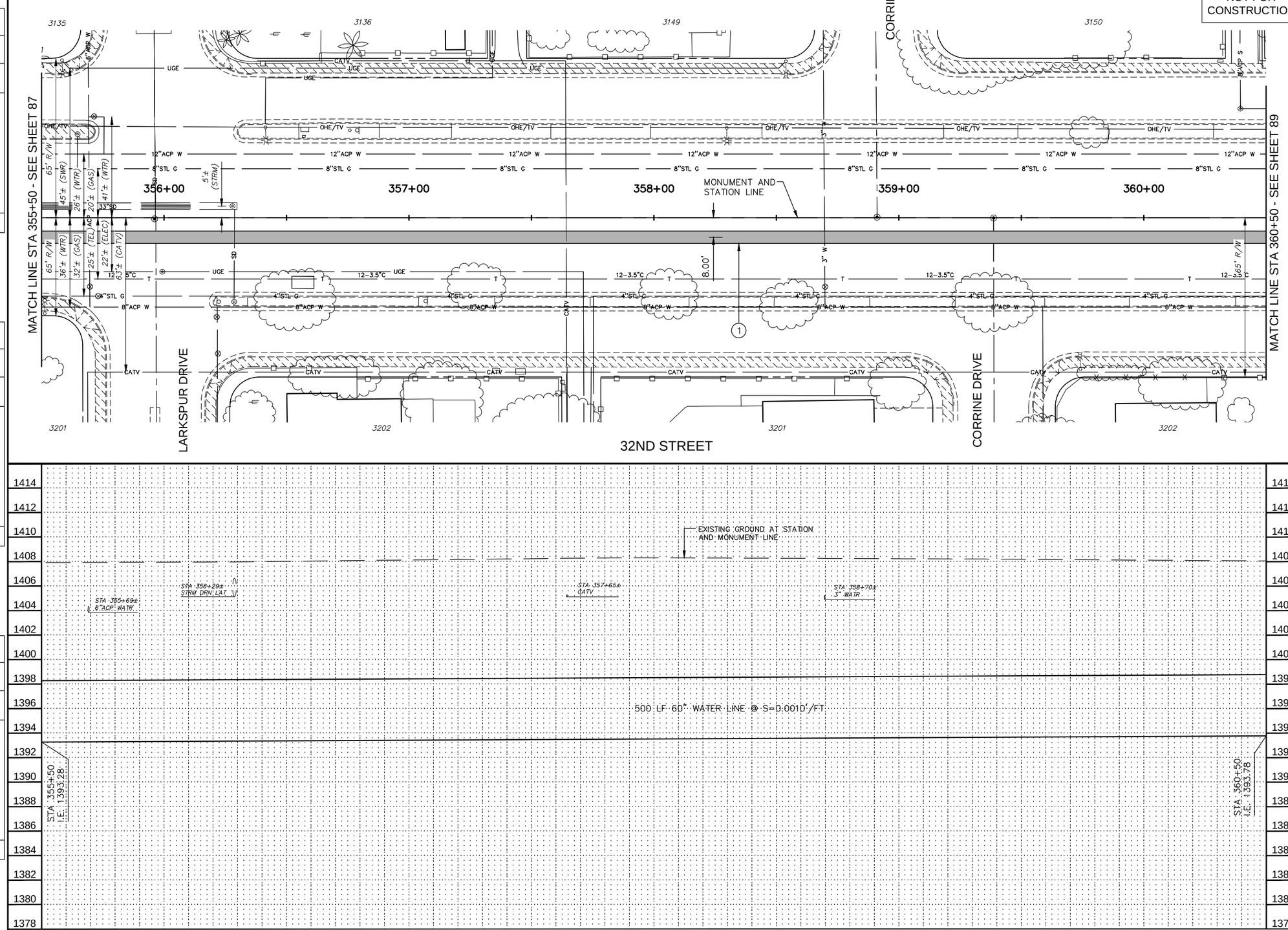
City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	88	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			88	117

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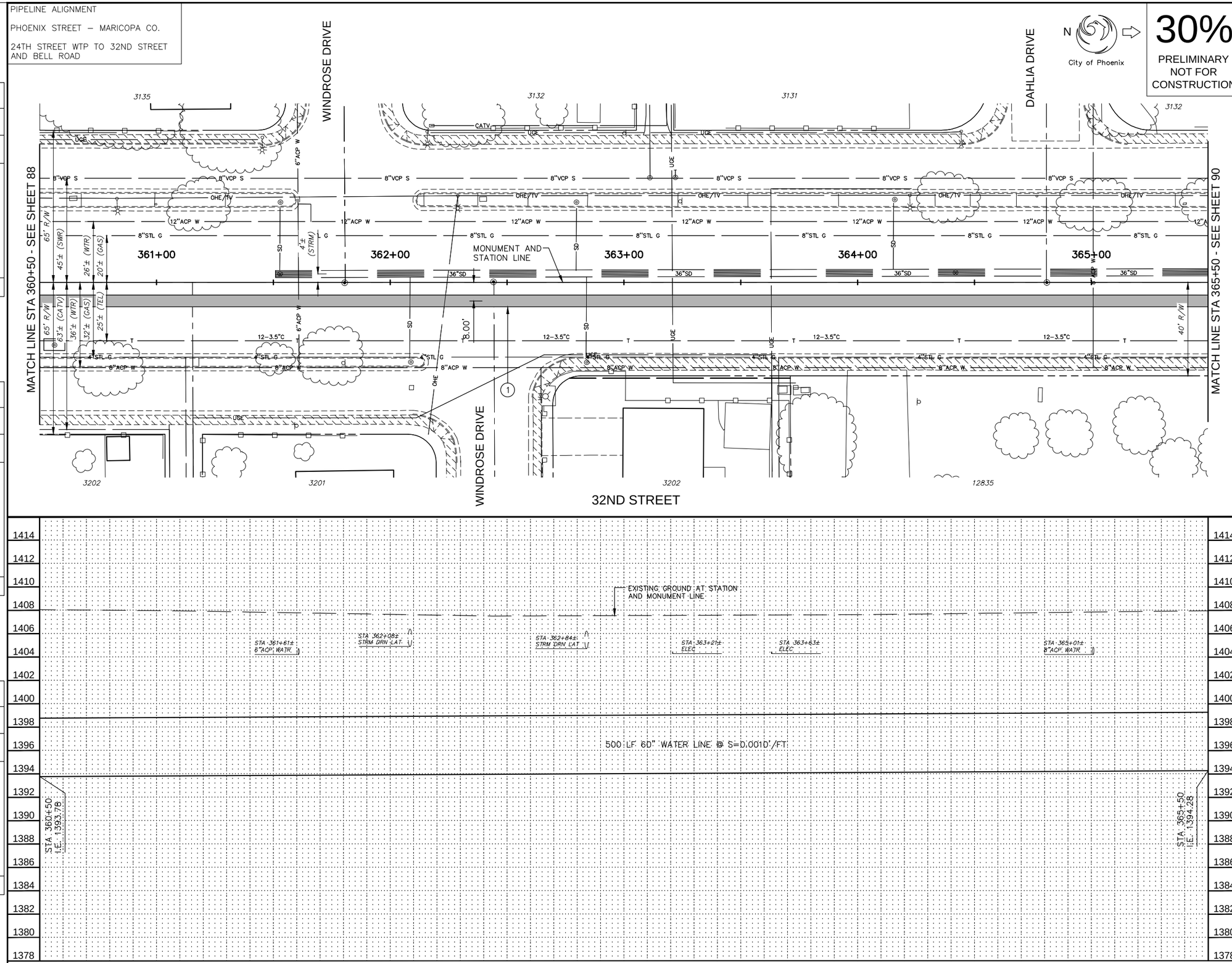
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	89	117

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Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	89	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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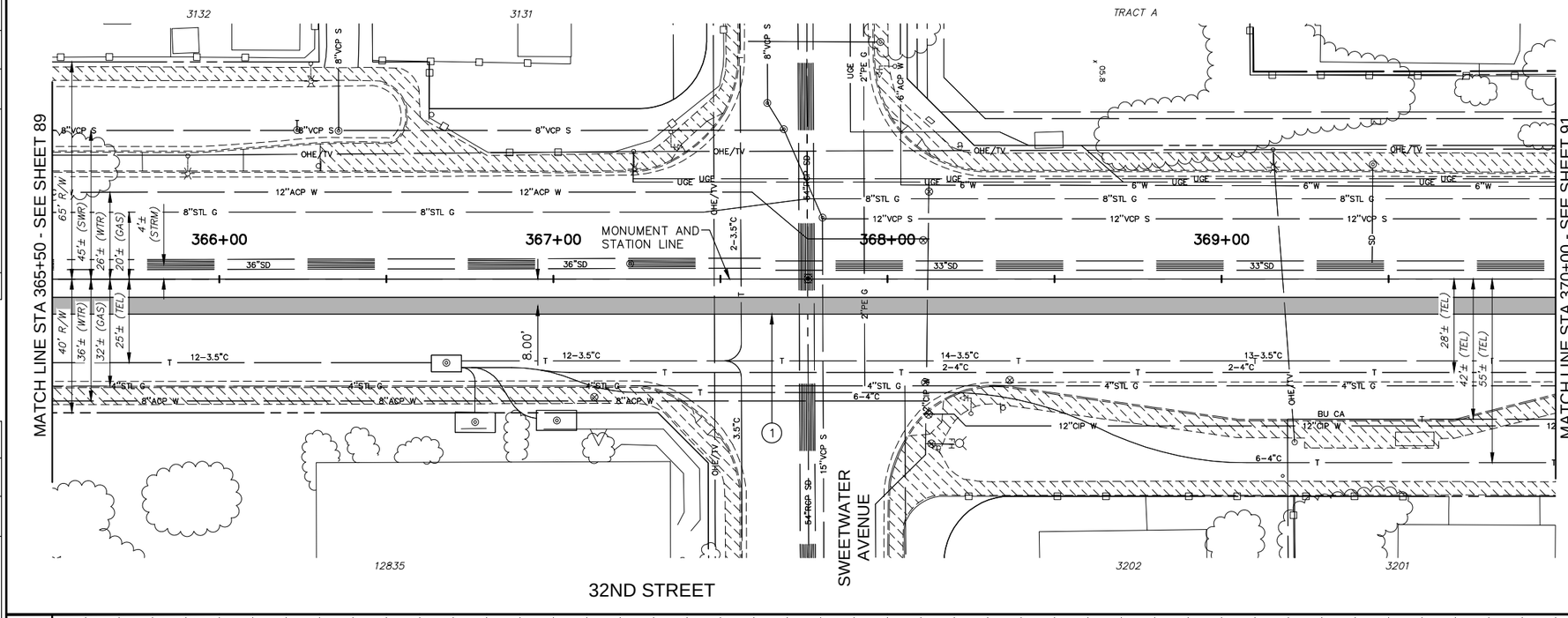
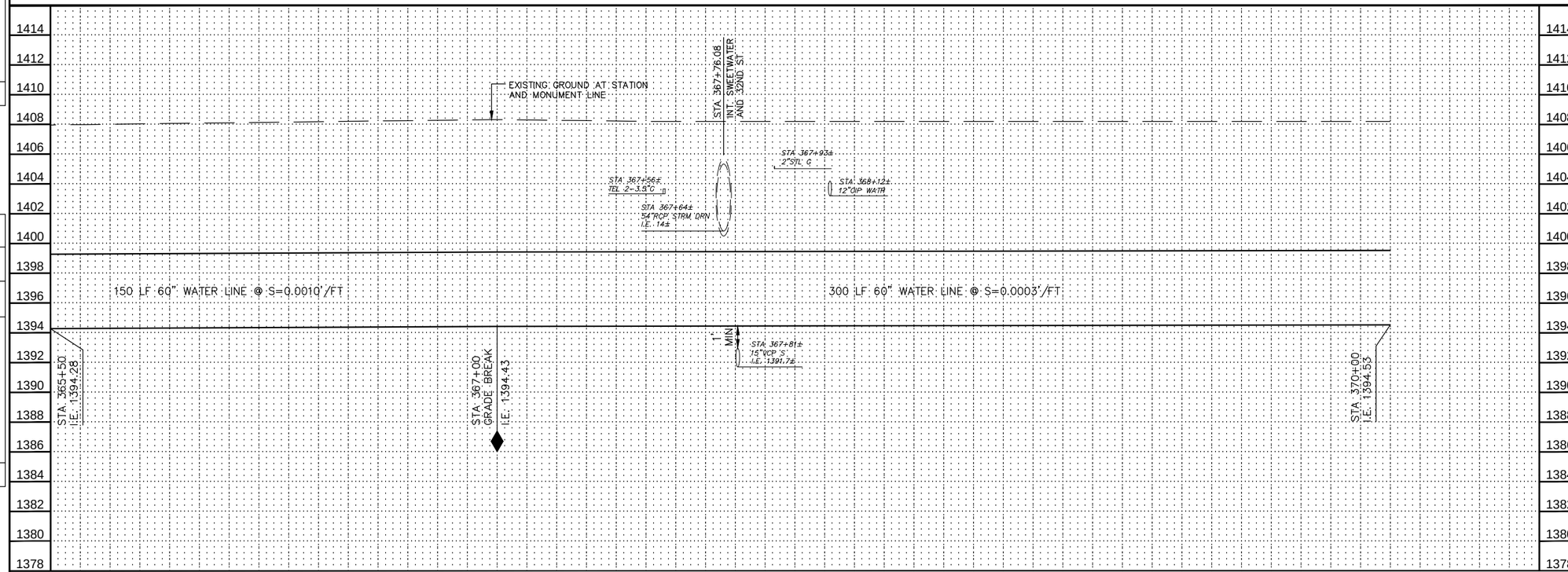
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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CONSTRUCTION NOTES

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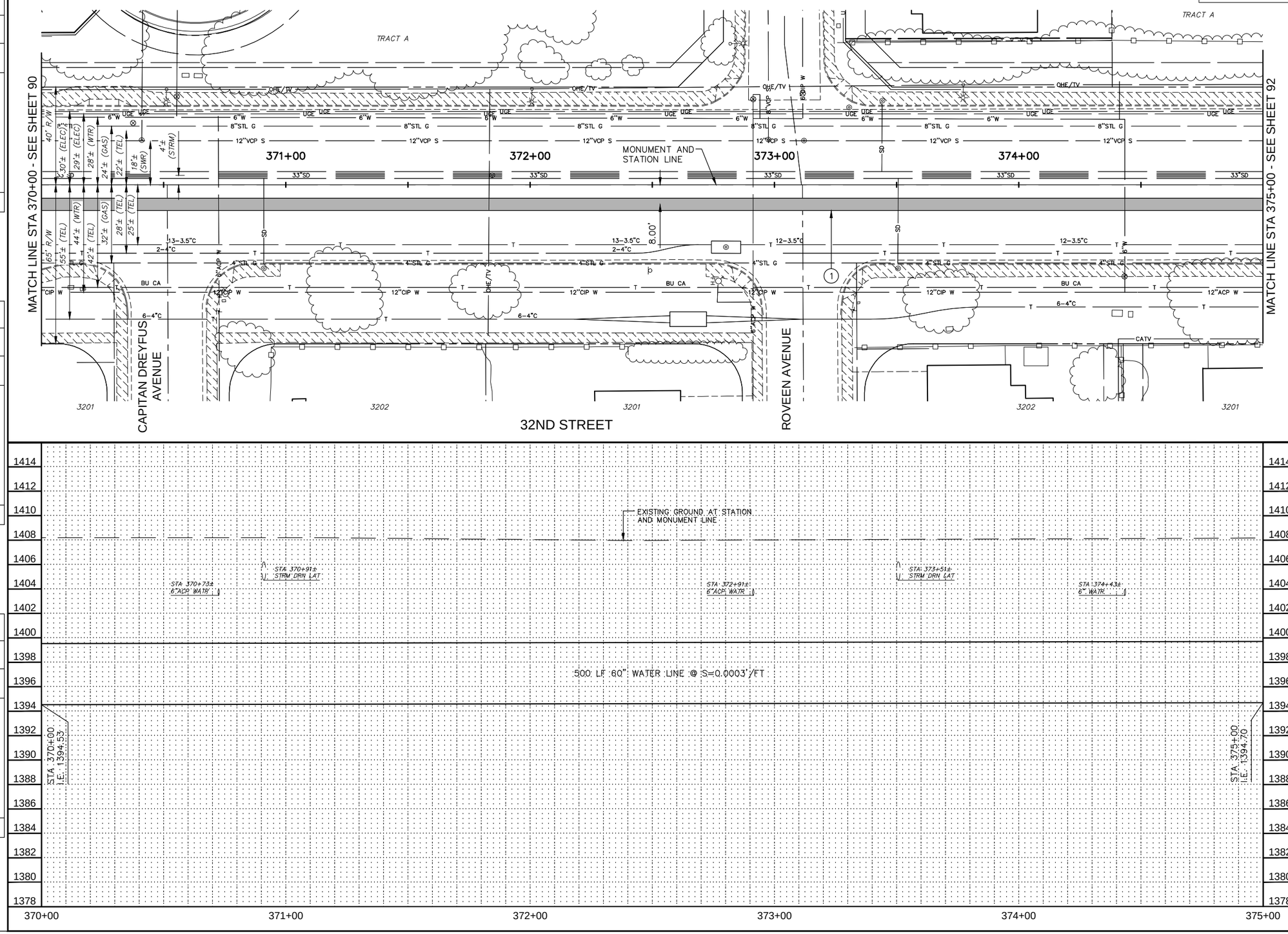
1	INSTALL 60" WATER LINE	LF	500



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	92	117

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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
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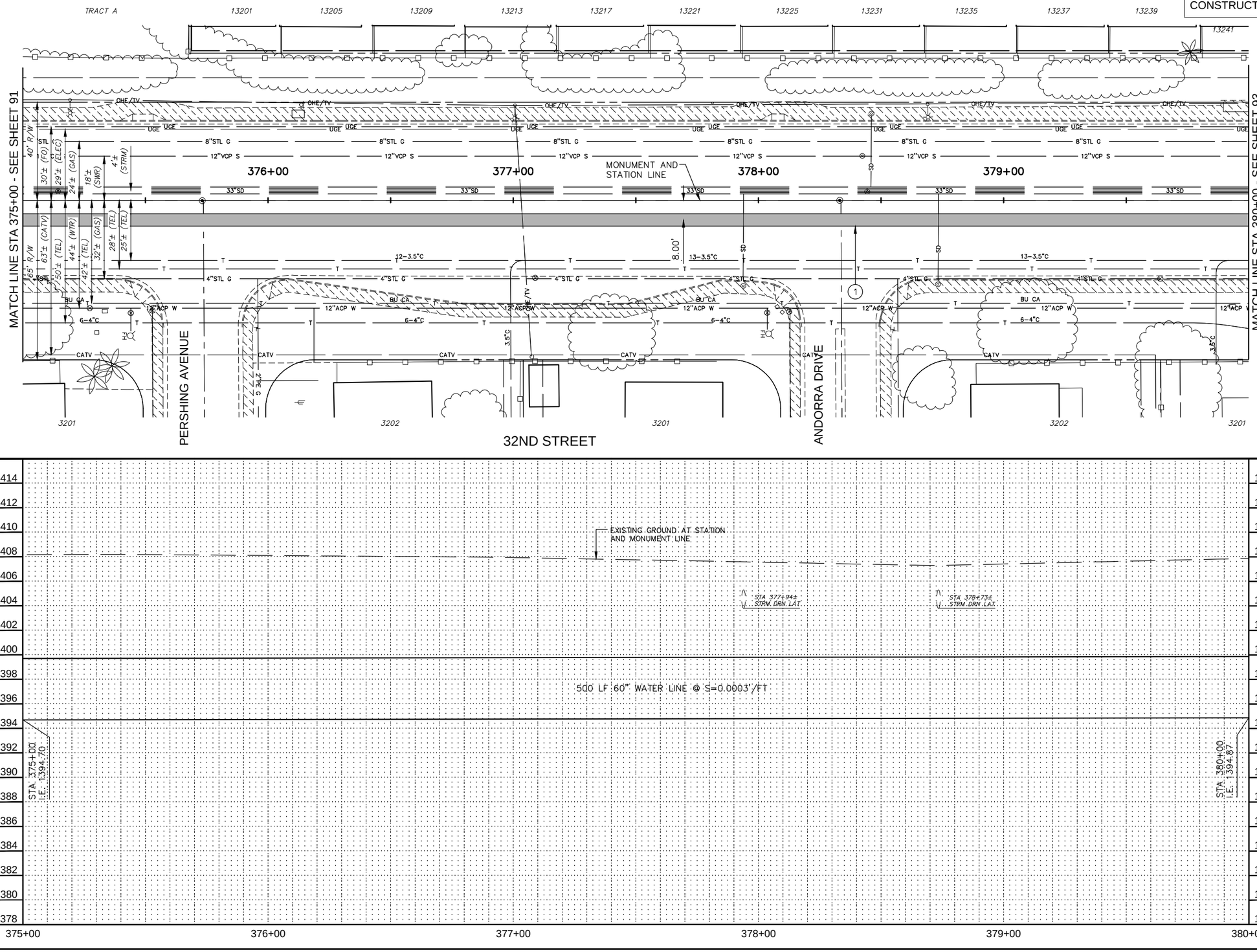

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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CONSTRUCTION NOTES

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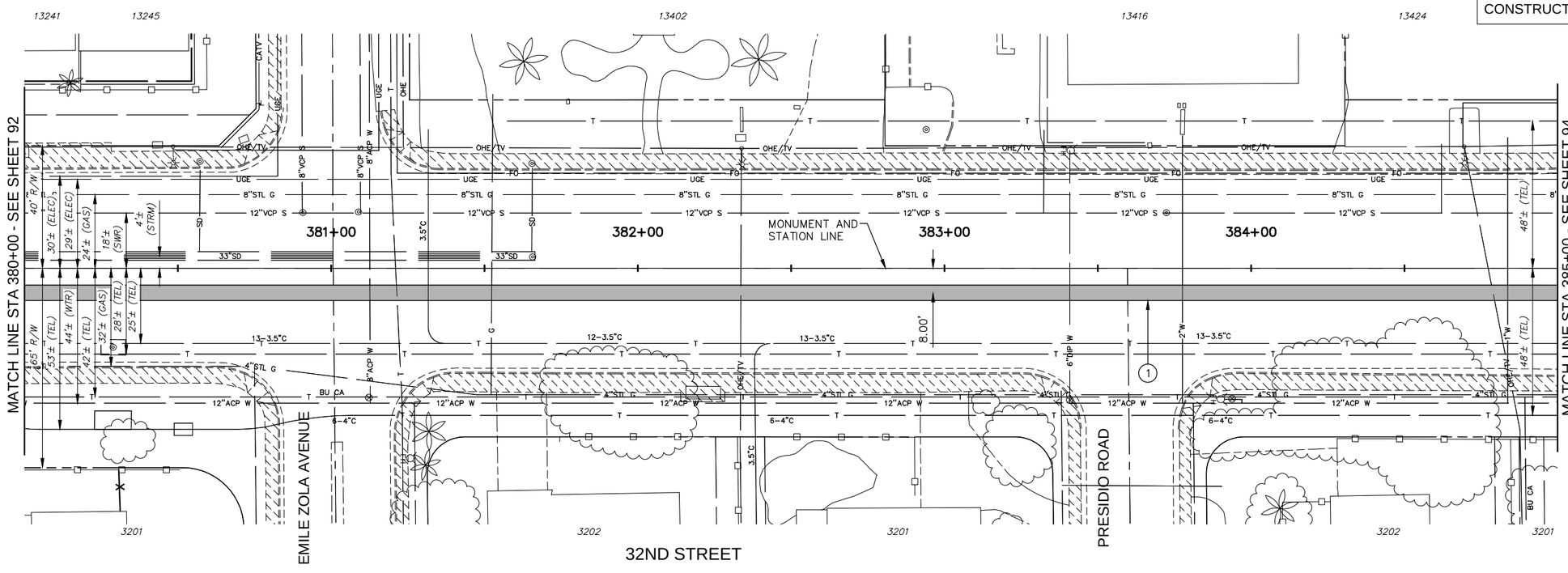

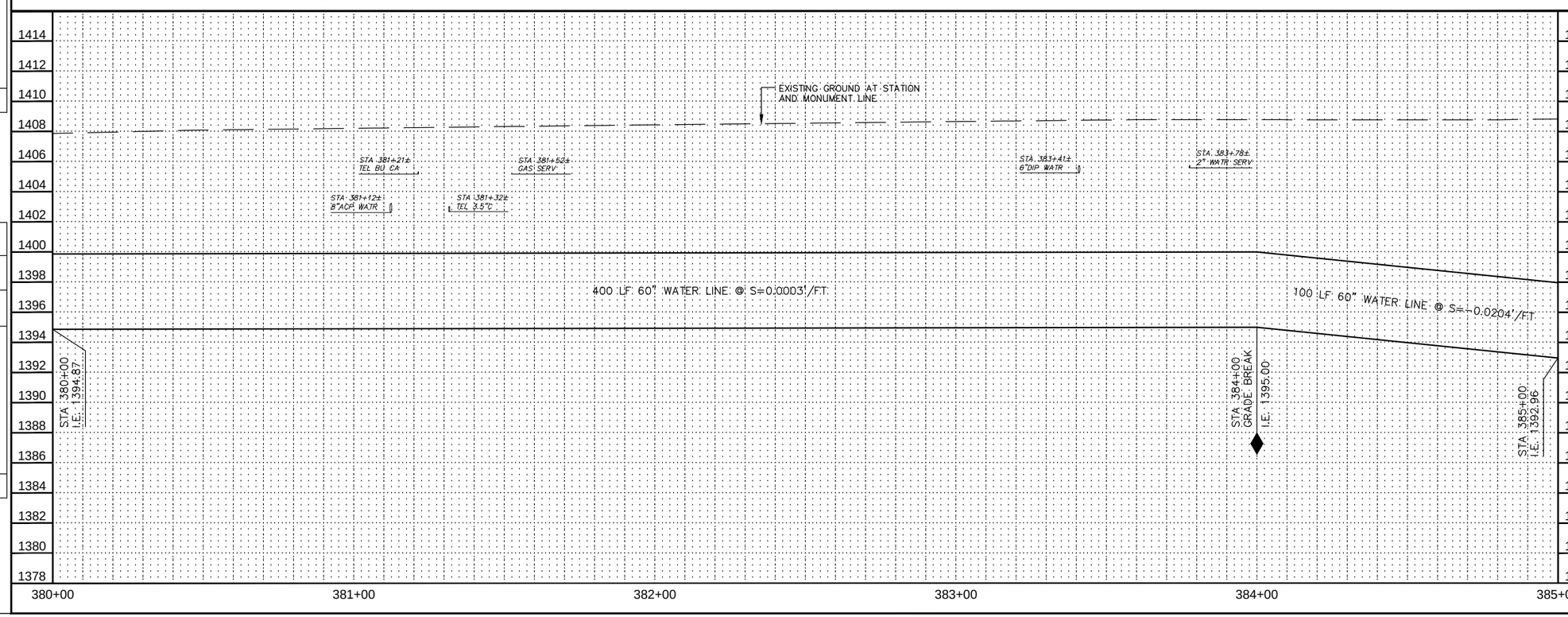

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
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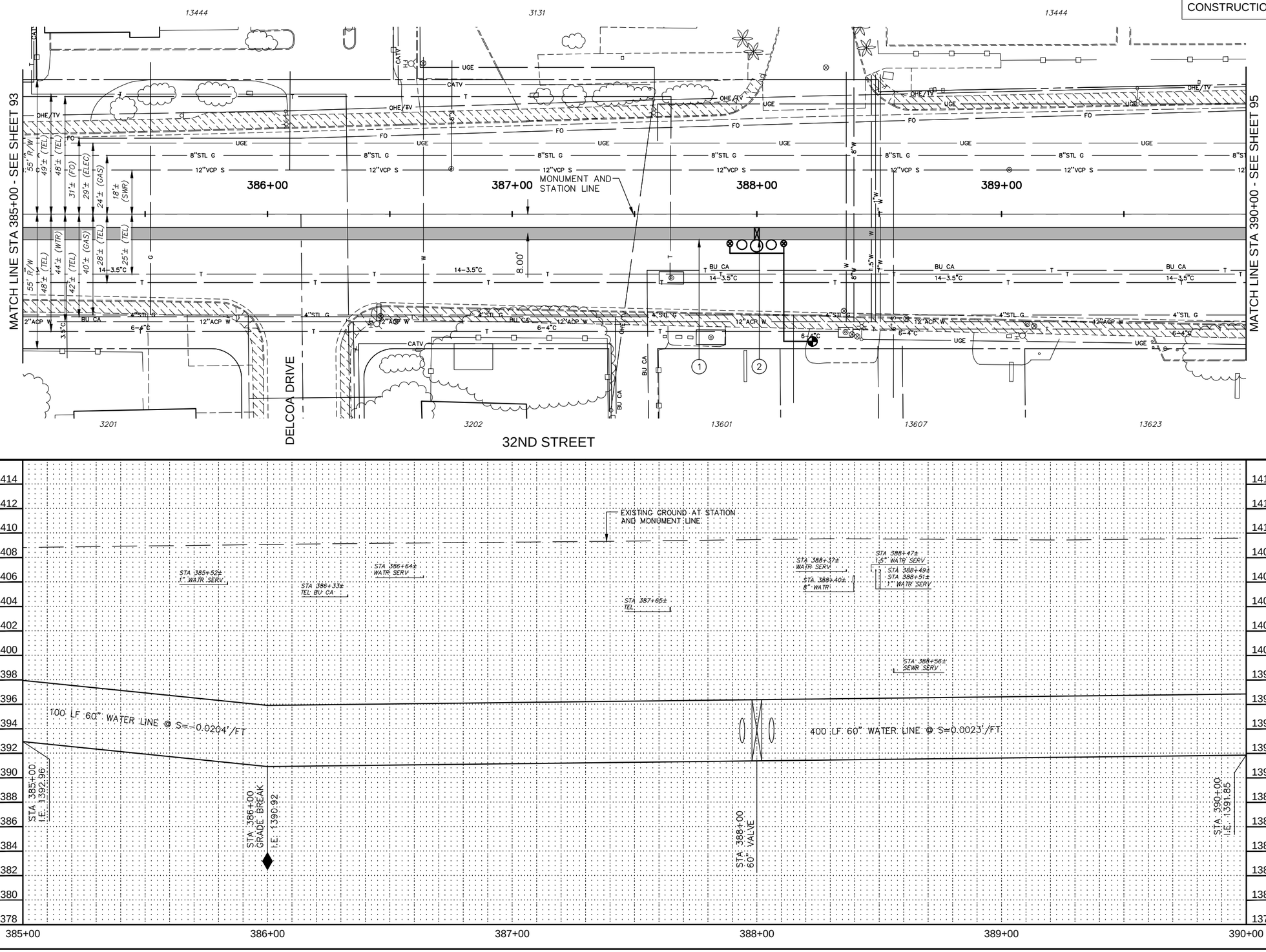

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

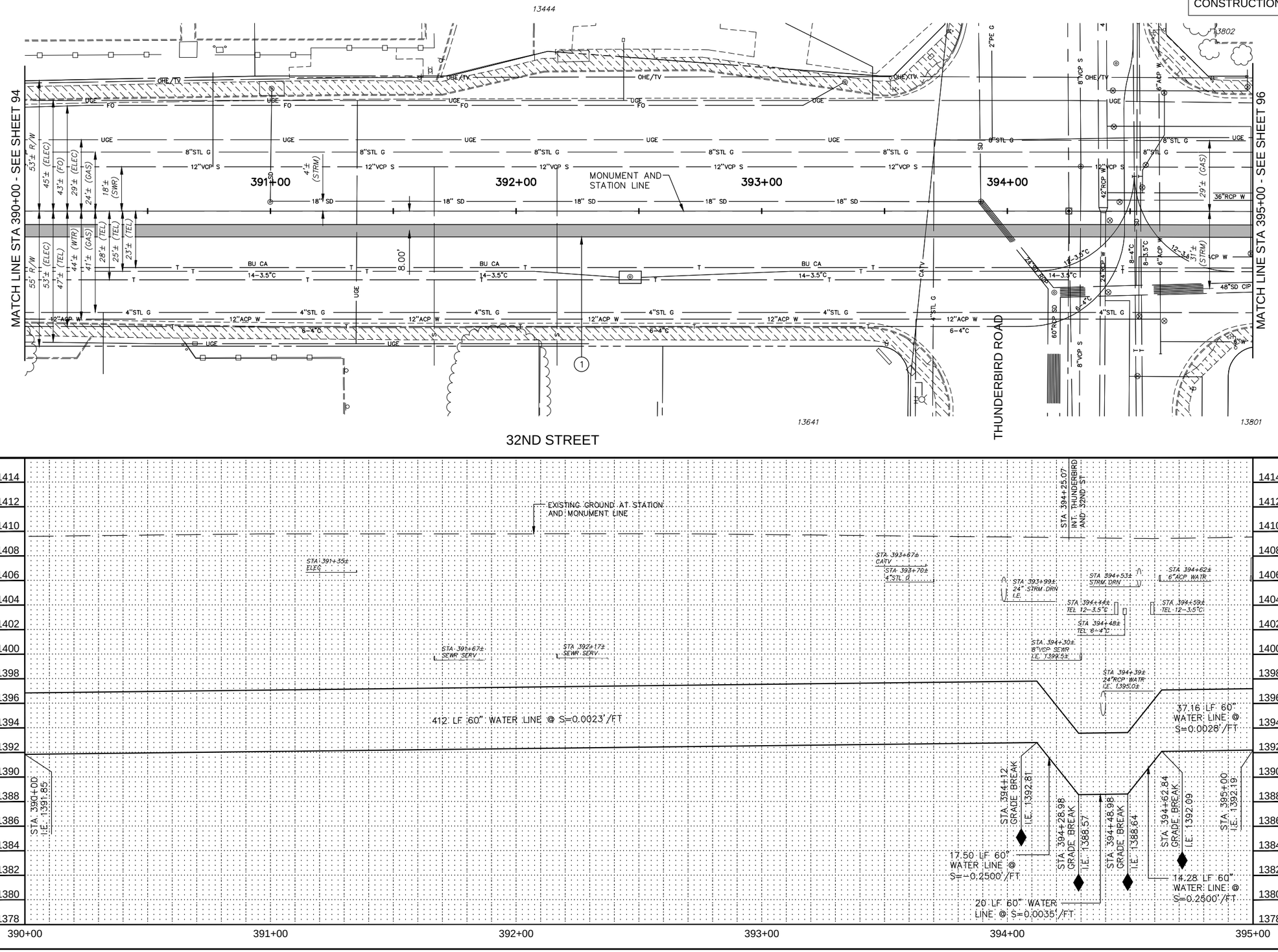
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	95	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	95	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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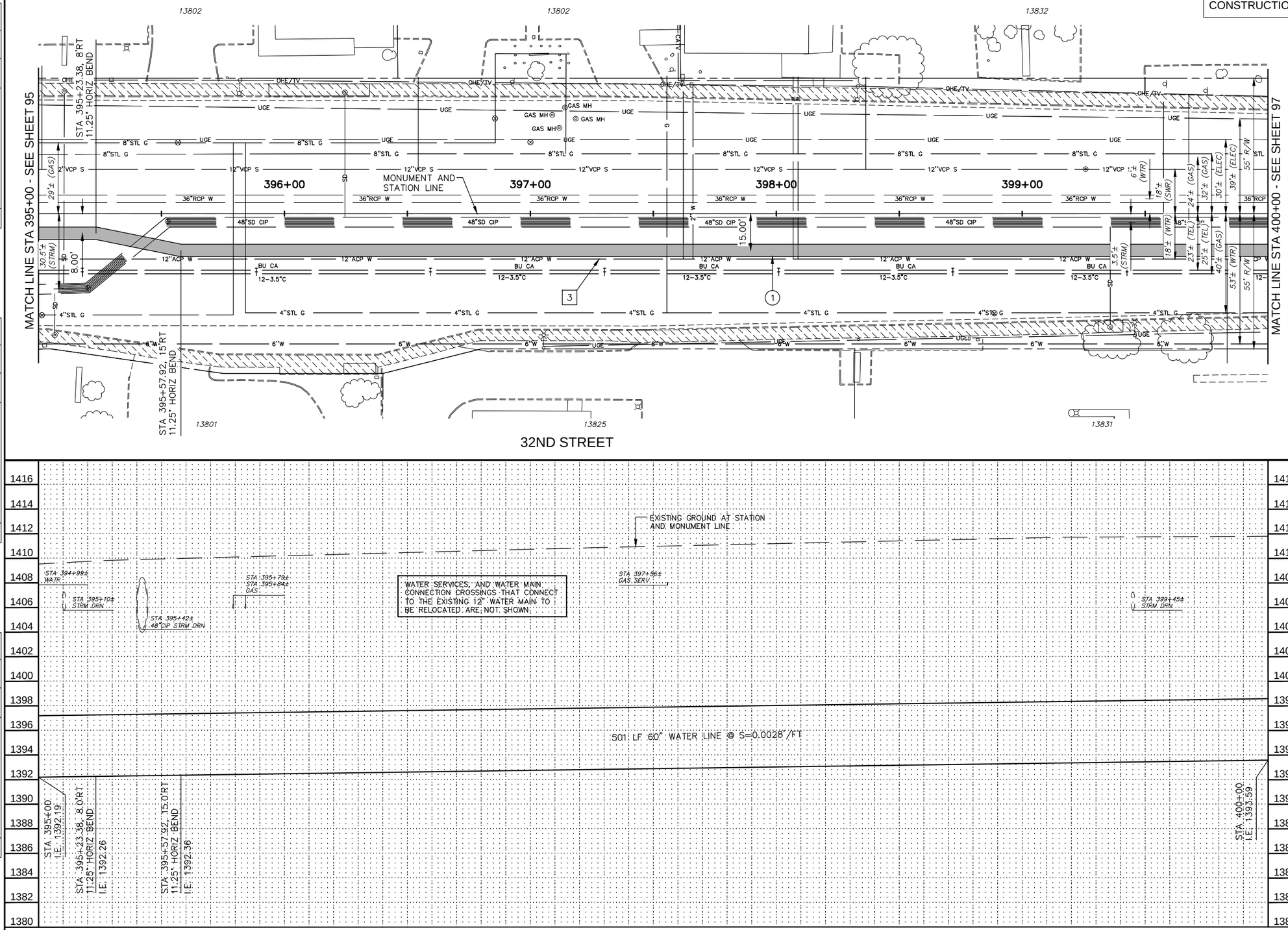

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	450

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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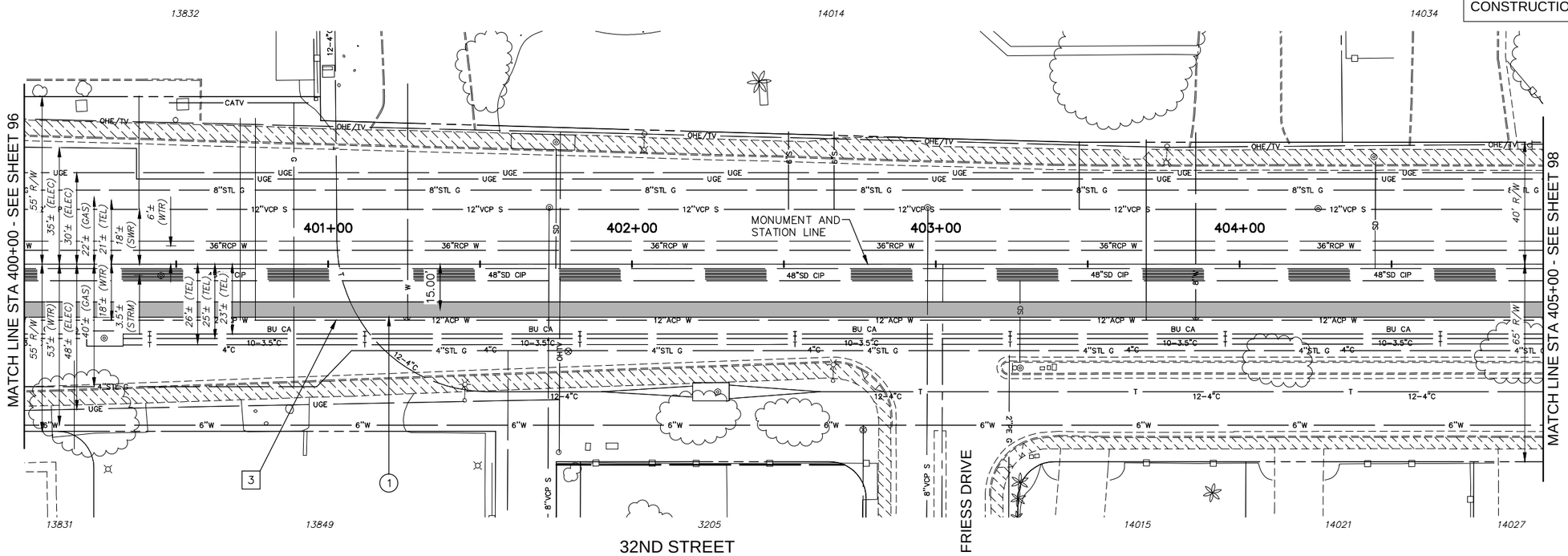

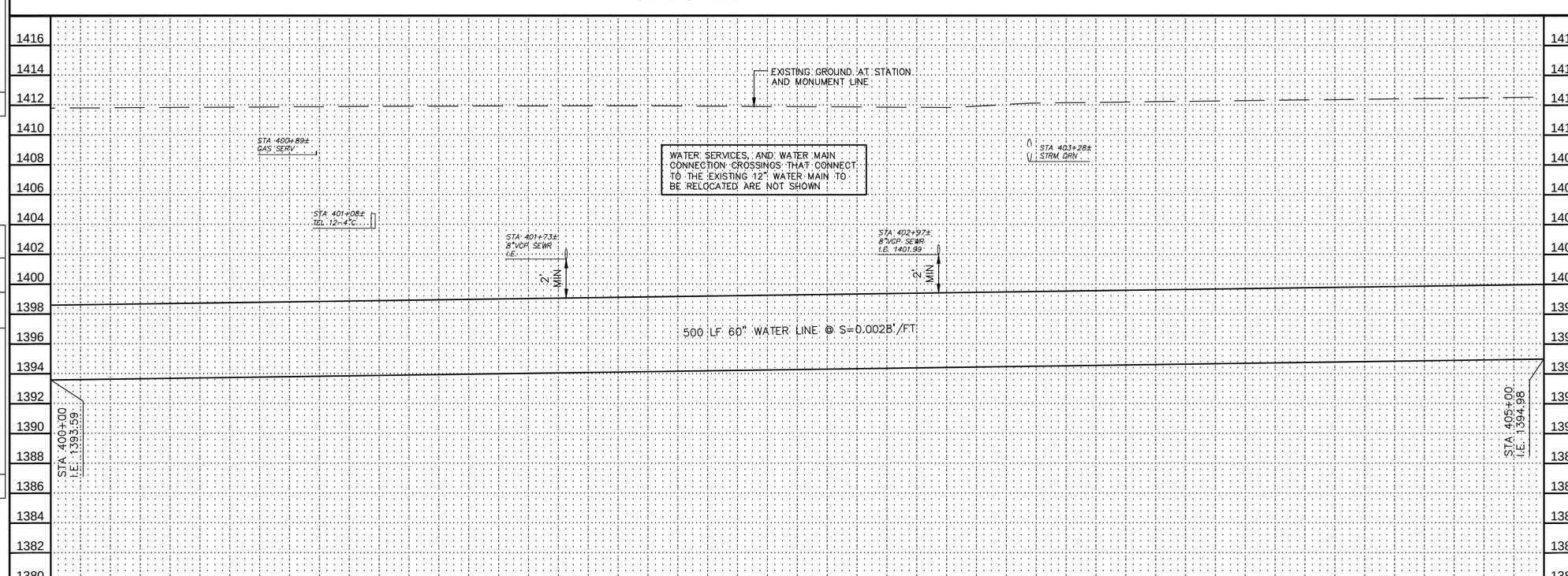

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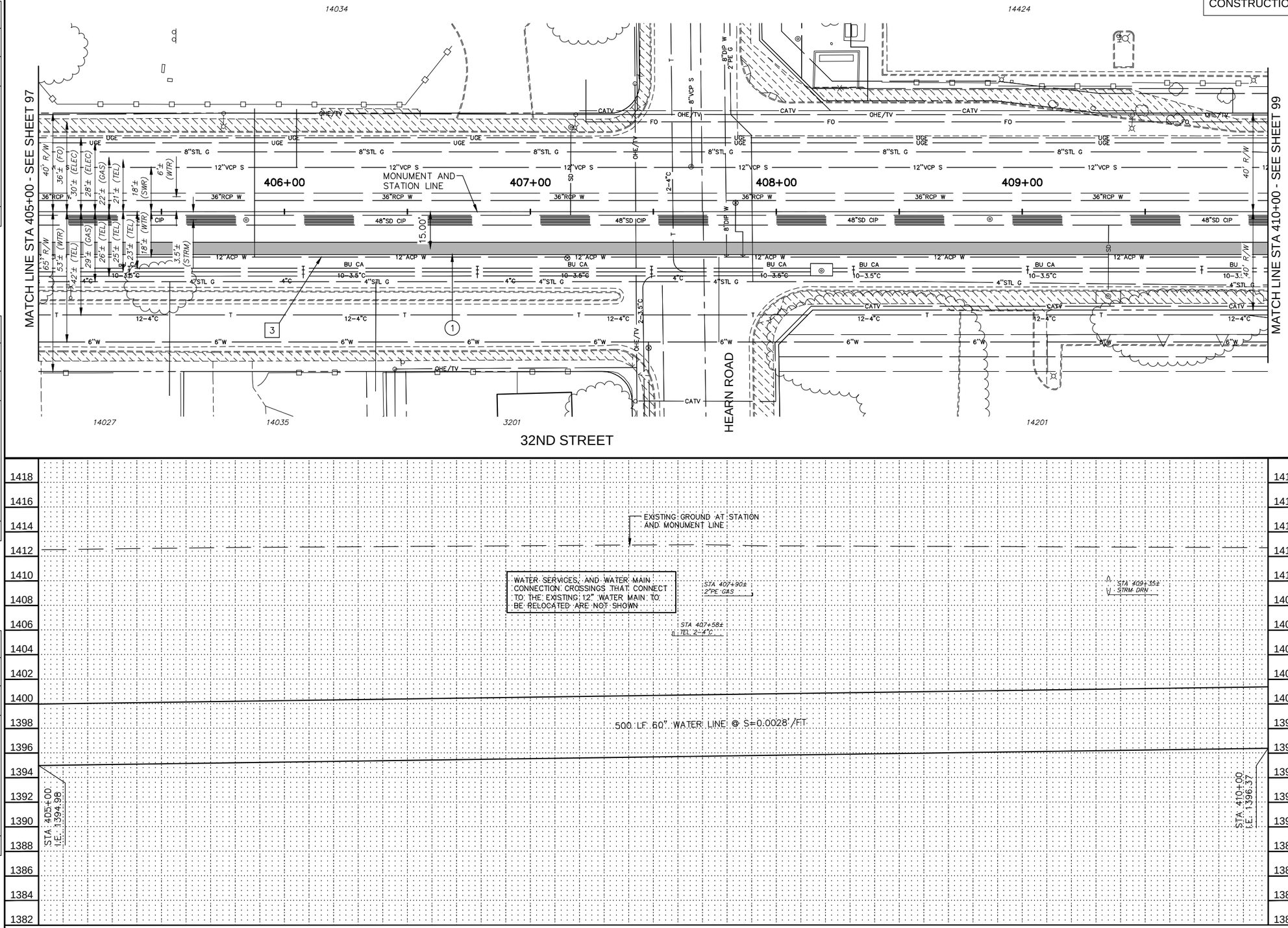

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CITY OF PHOENIX, ARIZONA
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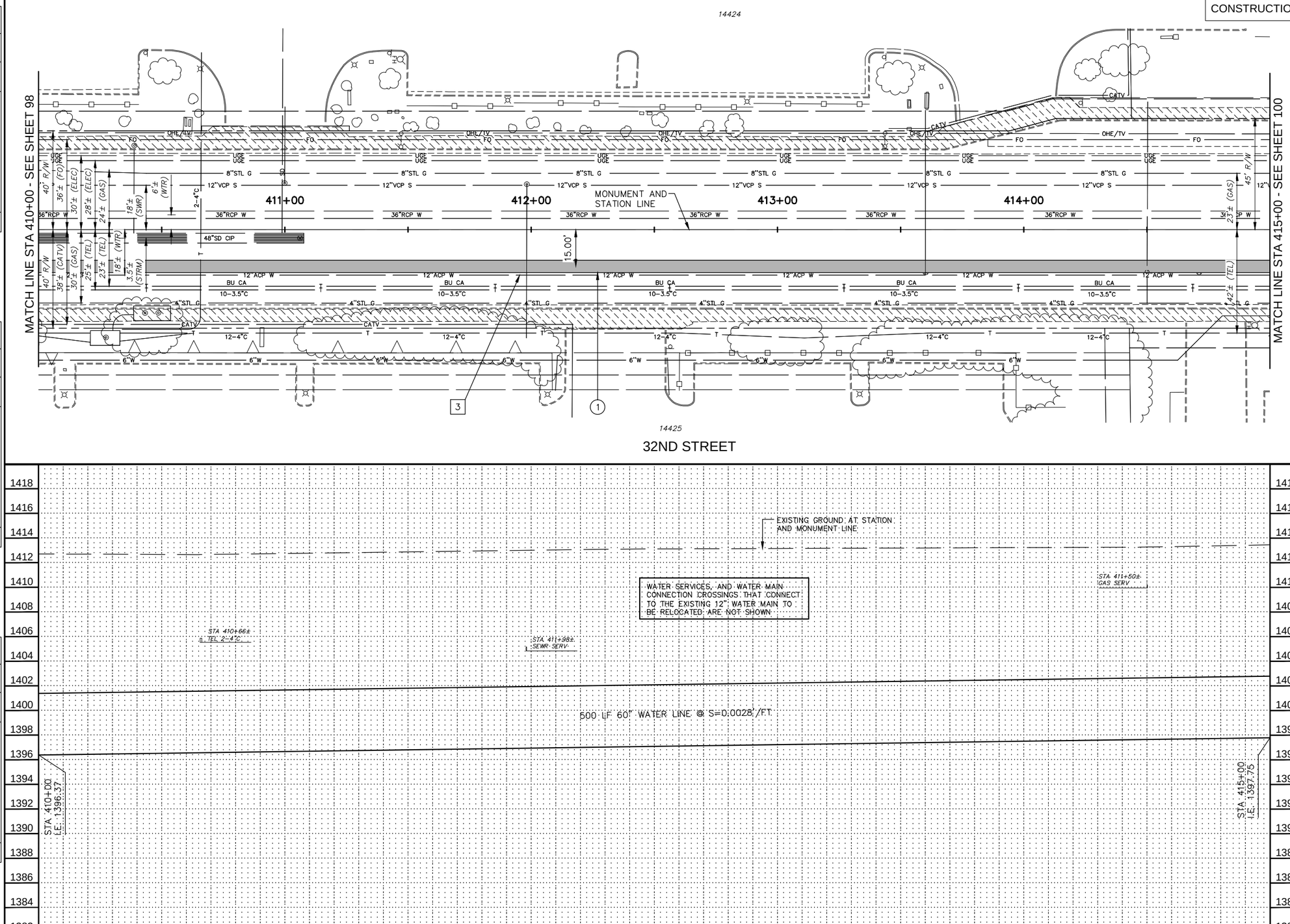

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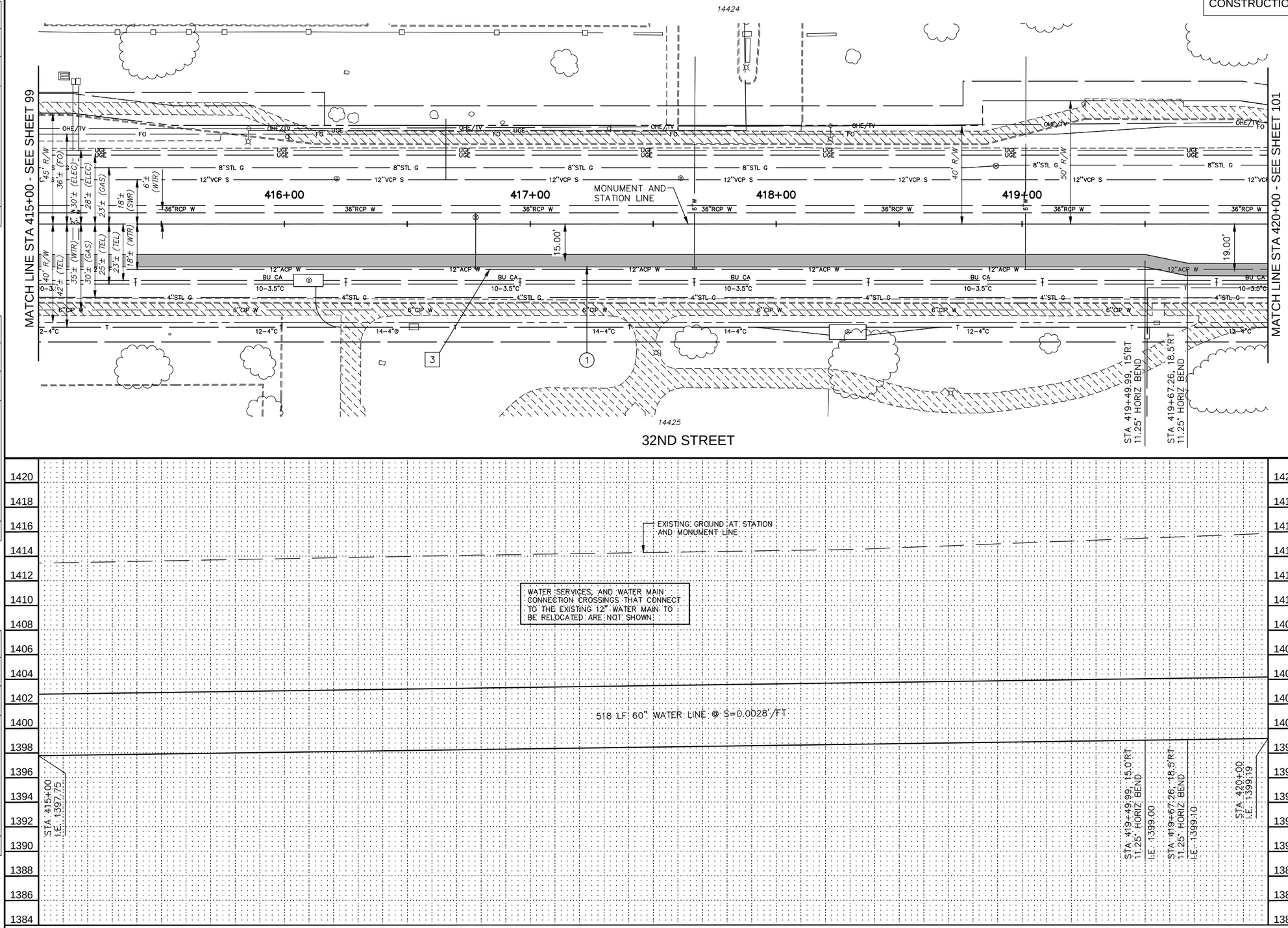

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	501

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	500

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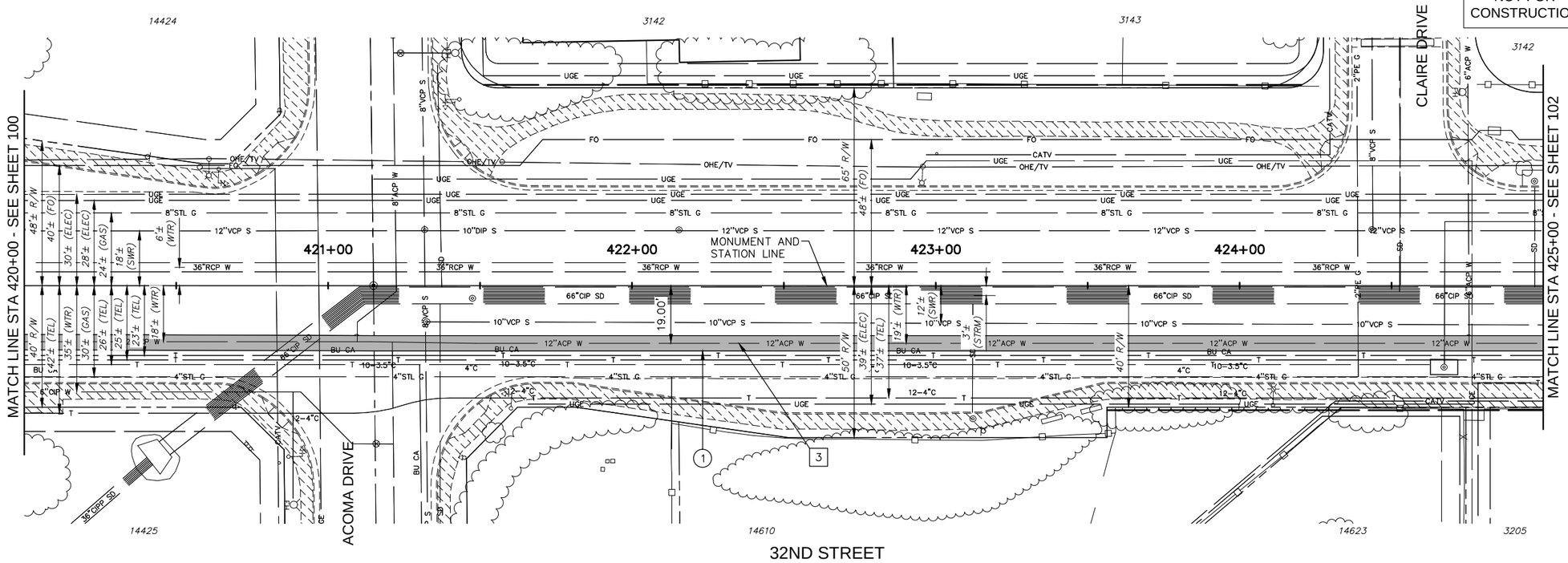

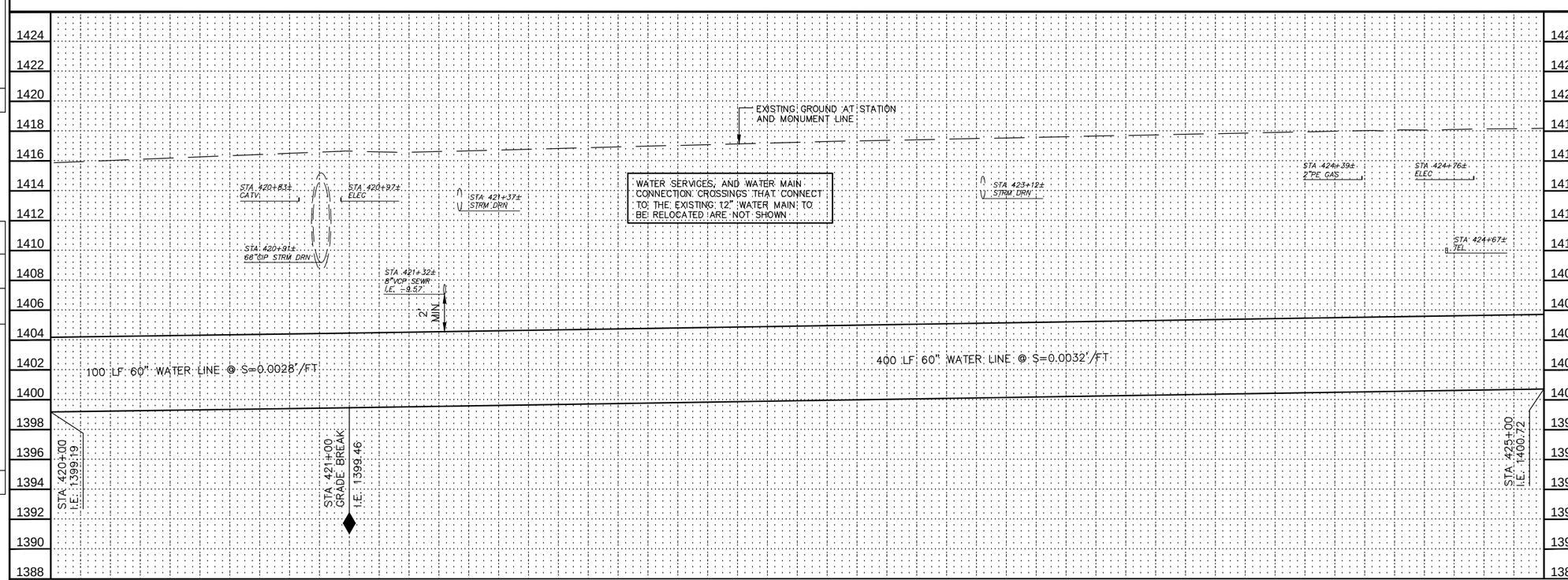

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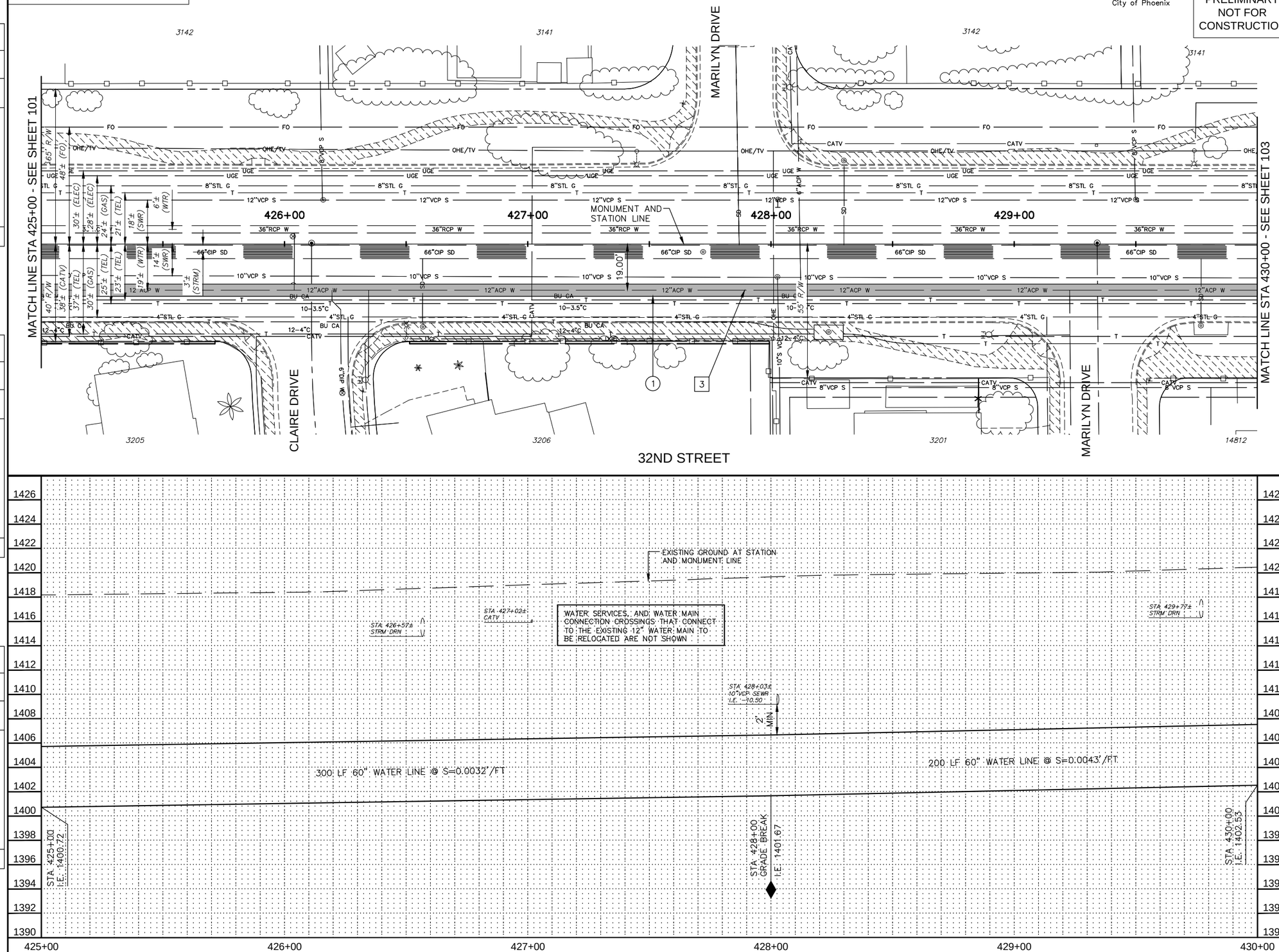

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	102	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

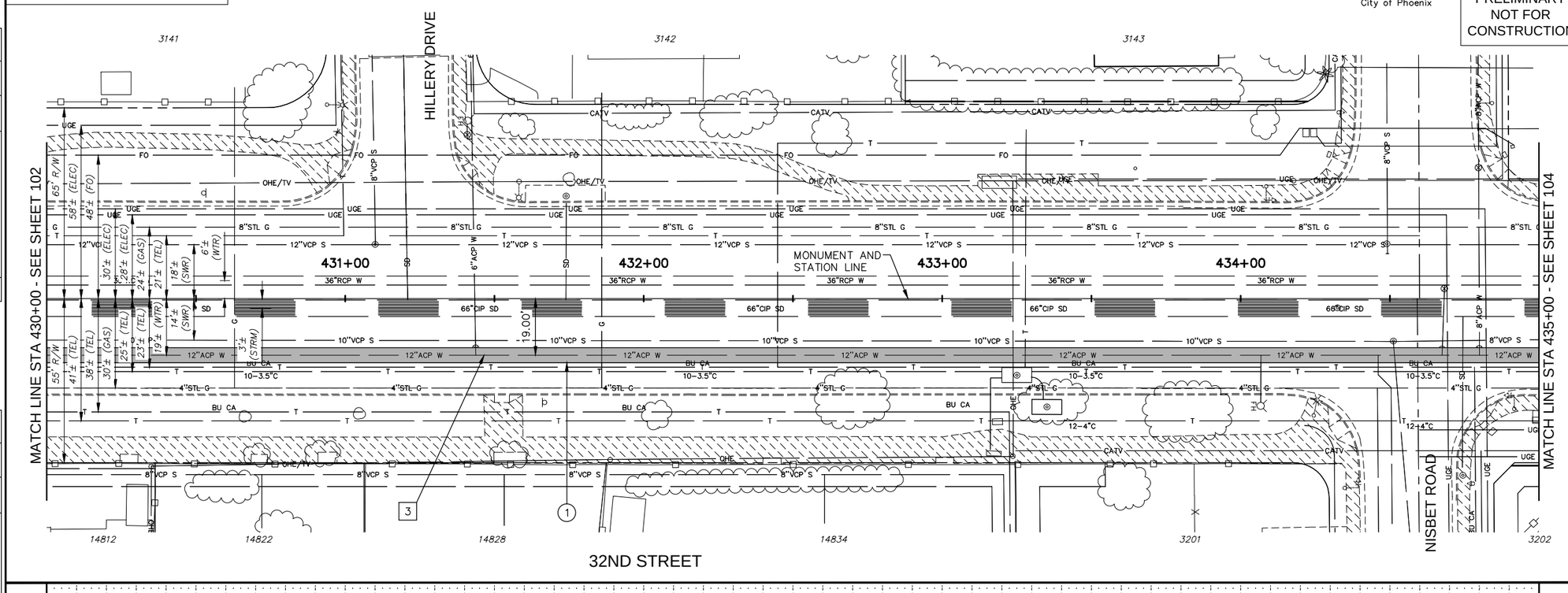
City of Phoenix

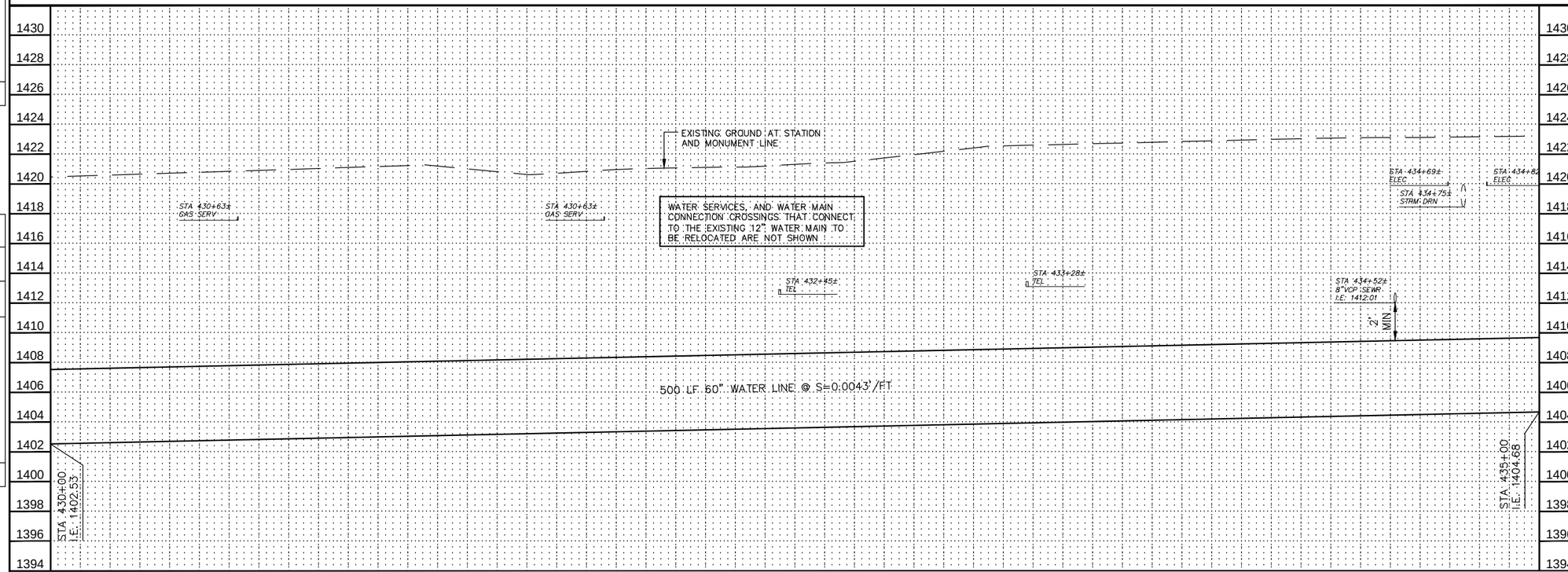
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	103	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	500

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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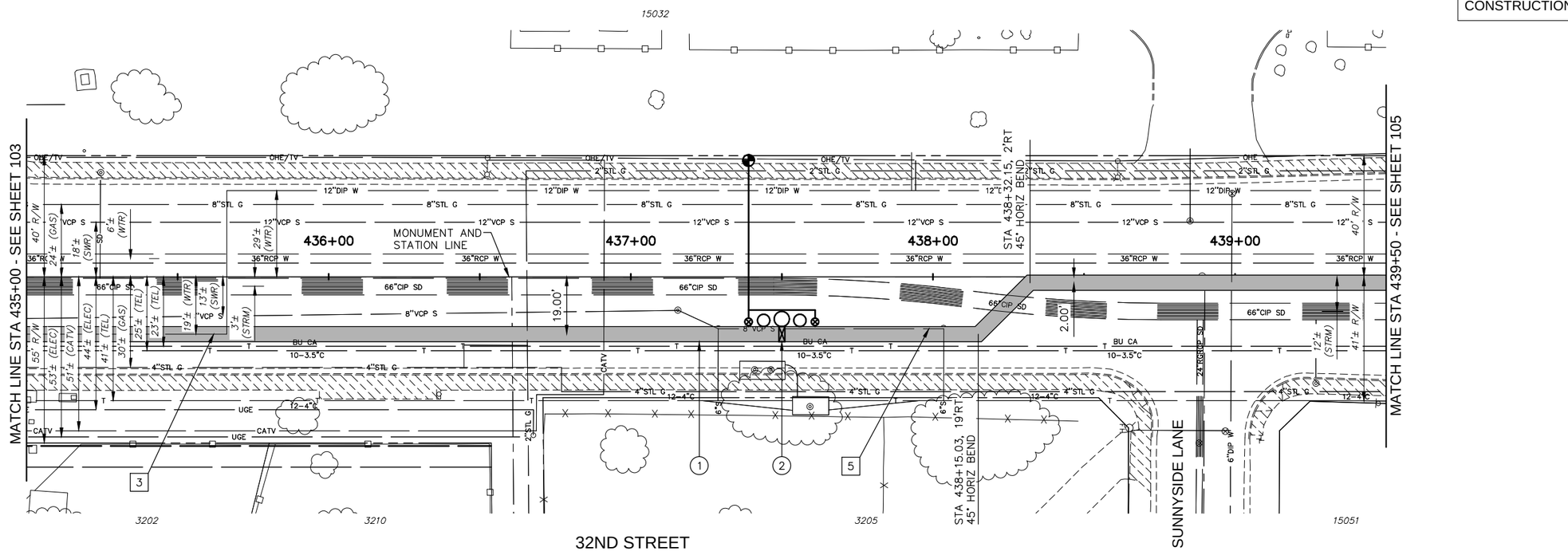

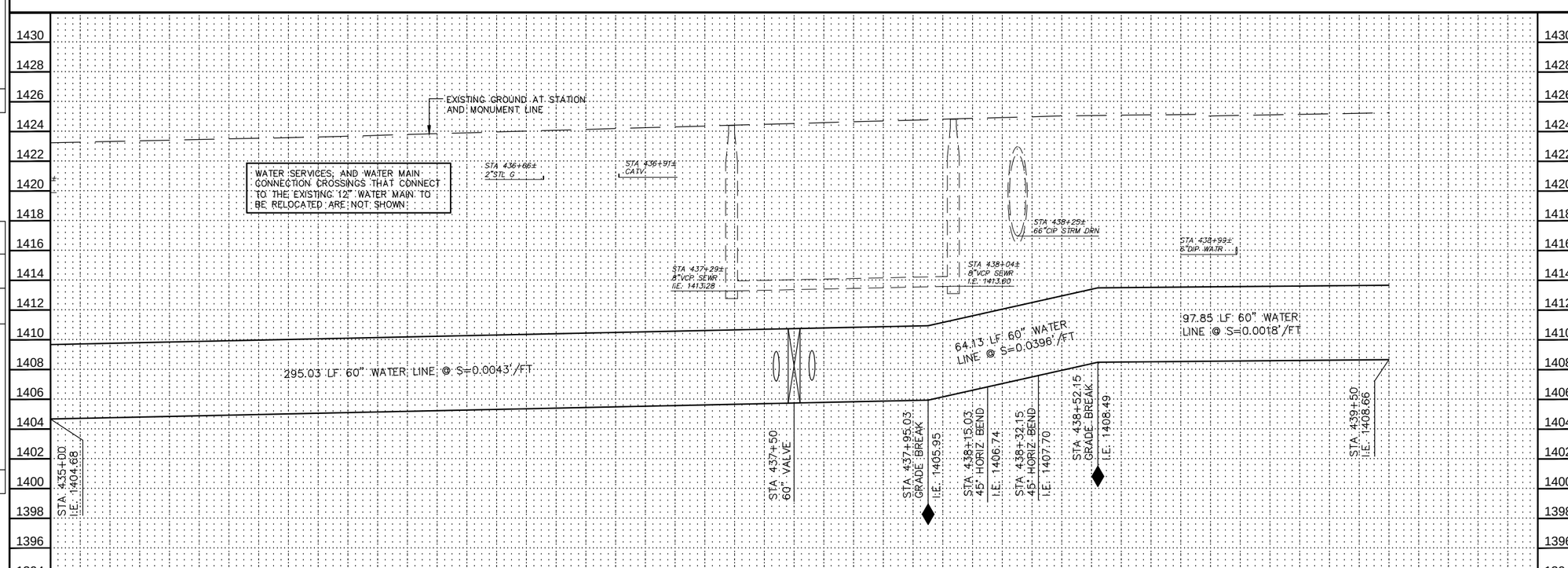

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	457
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	77
5	RELOCATE 8" VCP SEWER LINE	LF	96

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ARIZONA811
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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
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CONSTRUCTION NOTES

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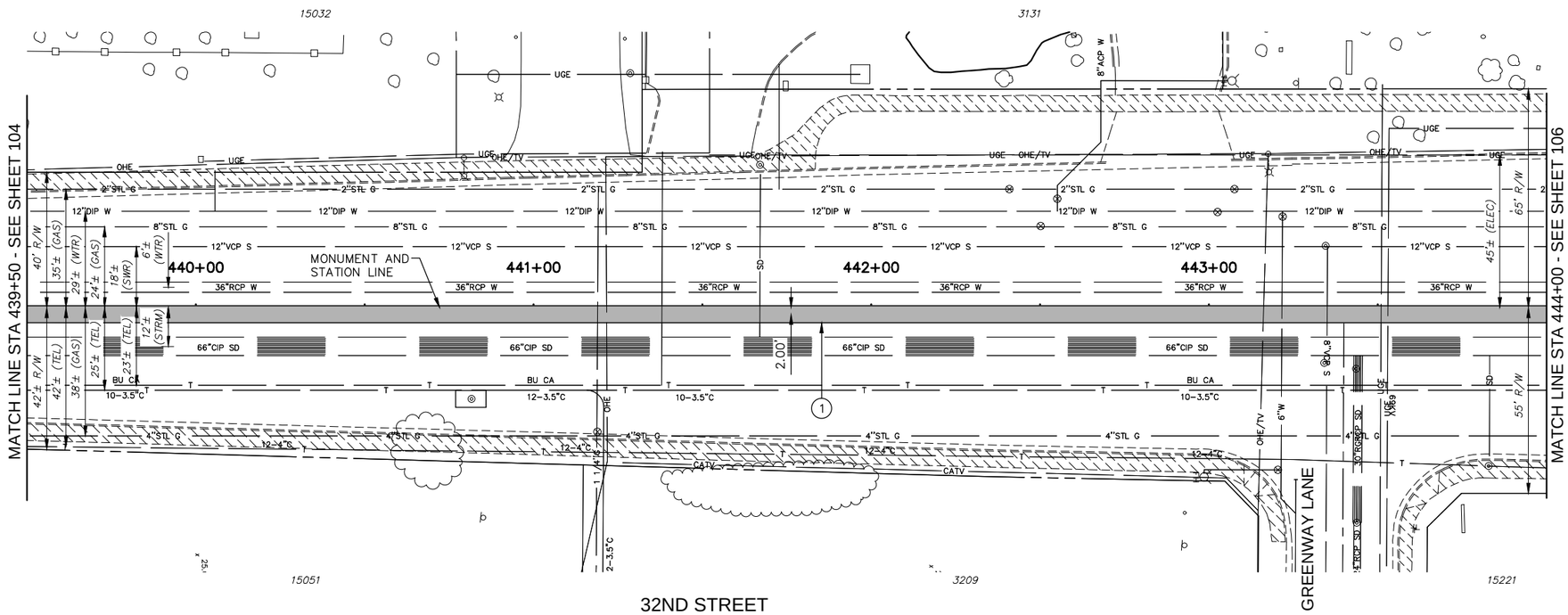
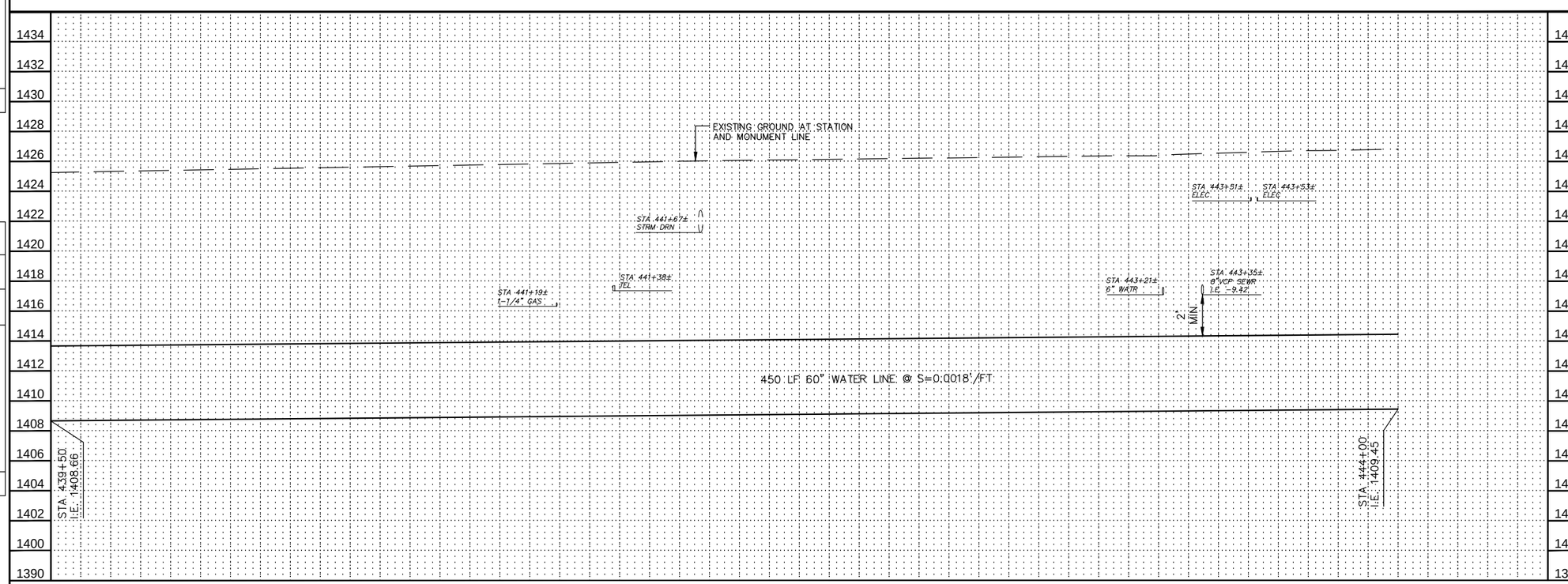
1	INSTALL 60" WATER LINE	LF	500





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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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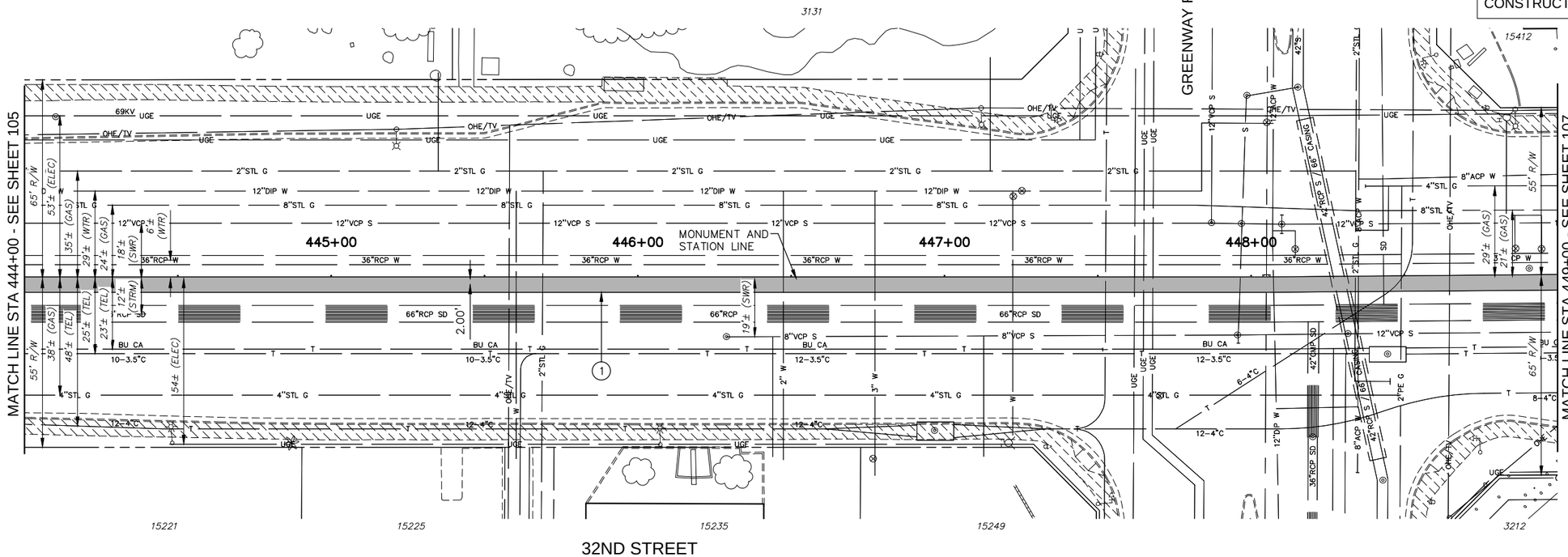

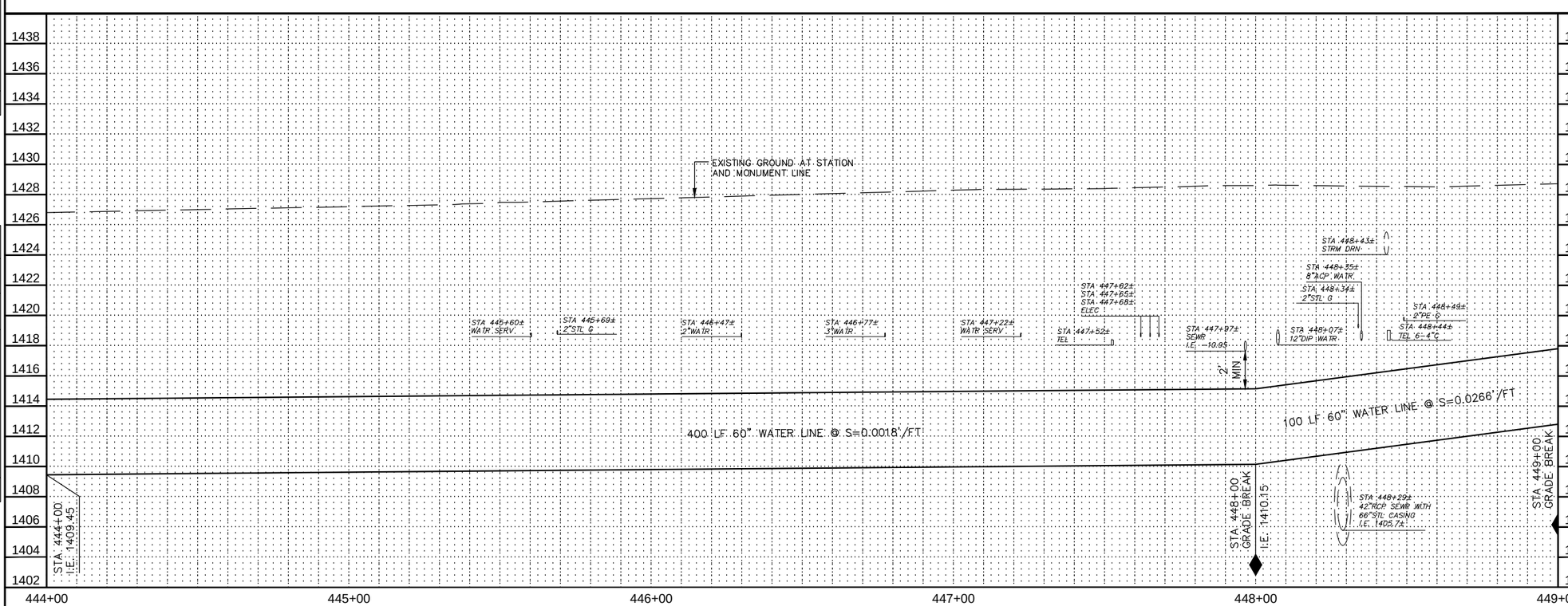

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
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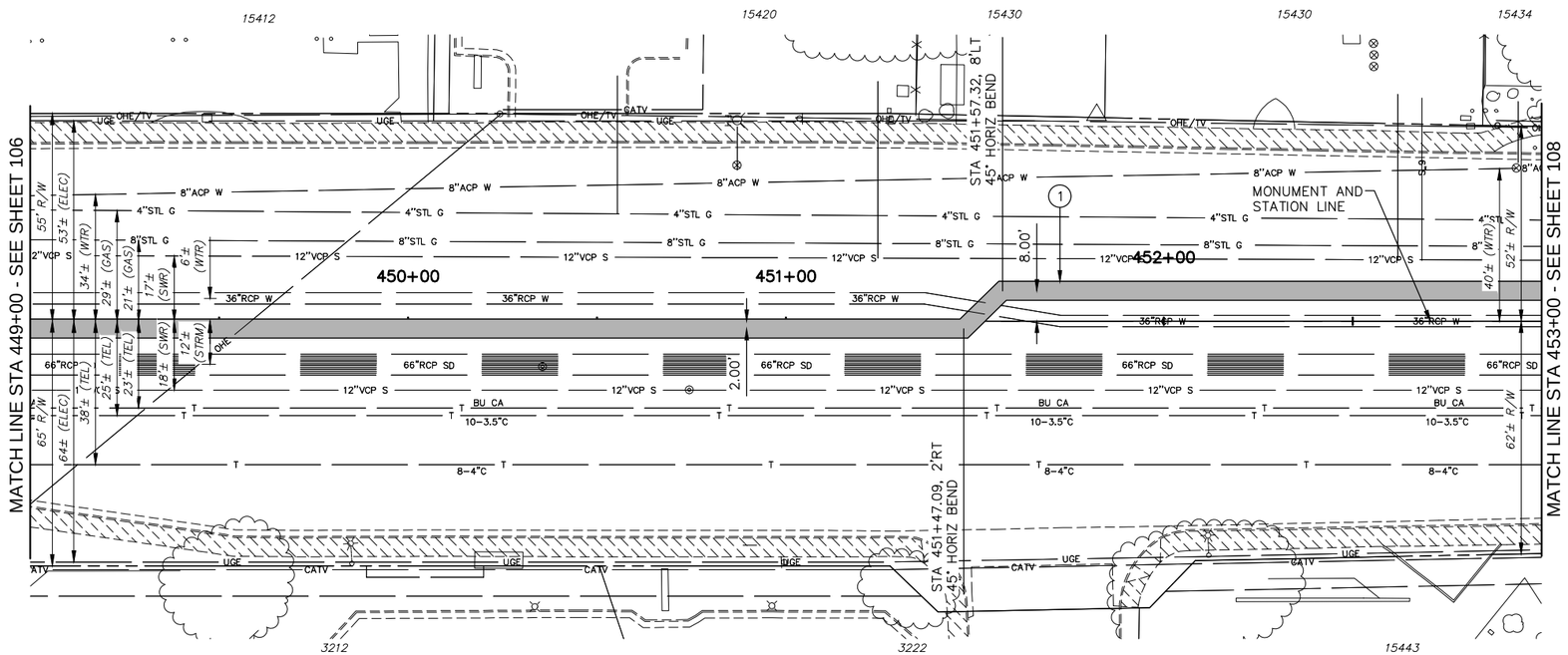

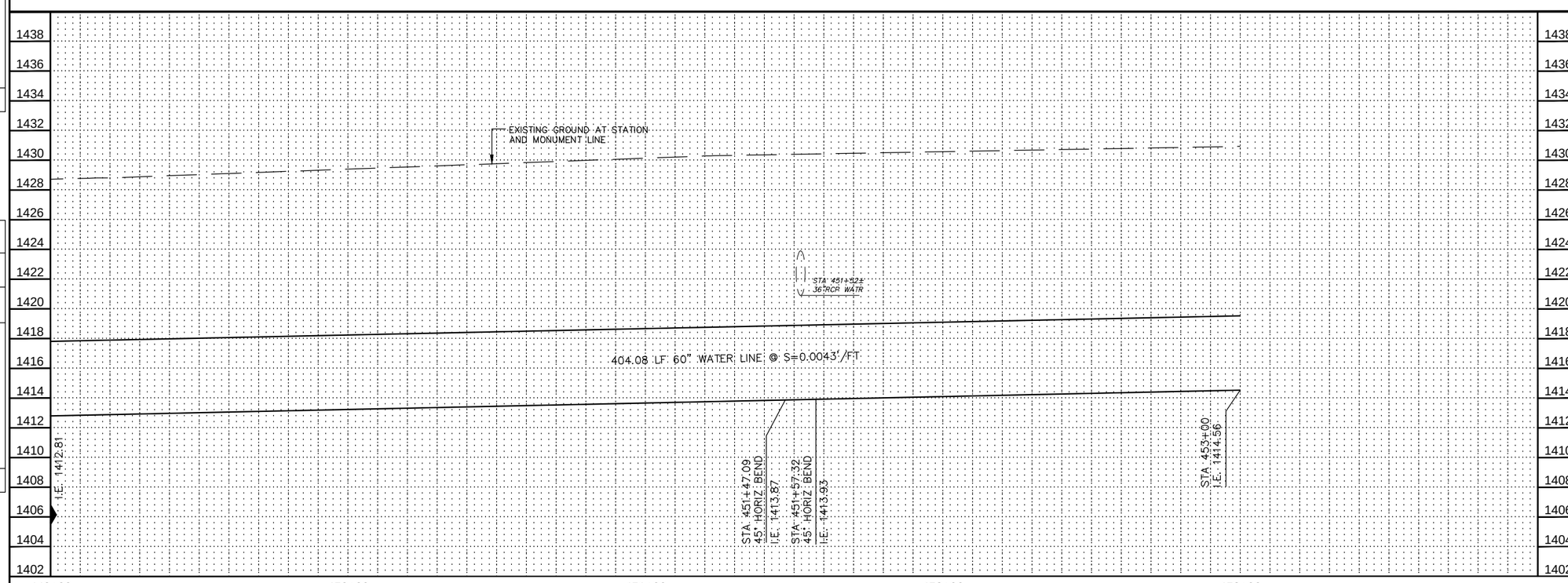

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	405

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CONSTRUCTION NOTES

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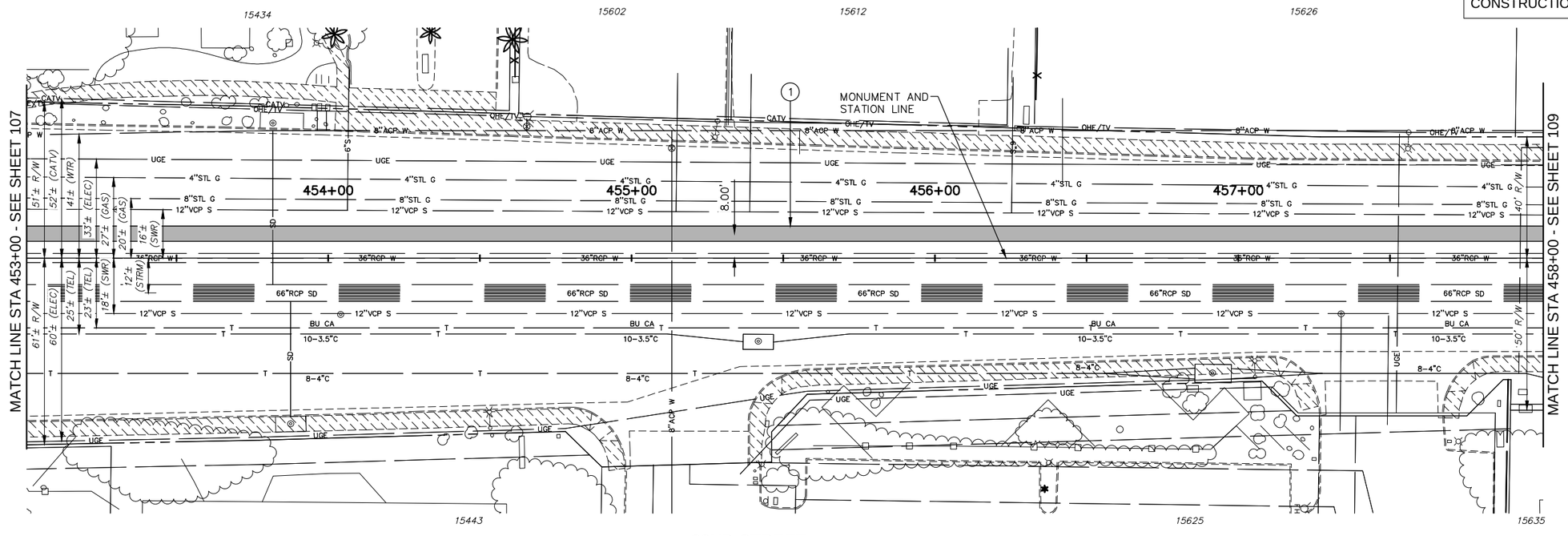
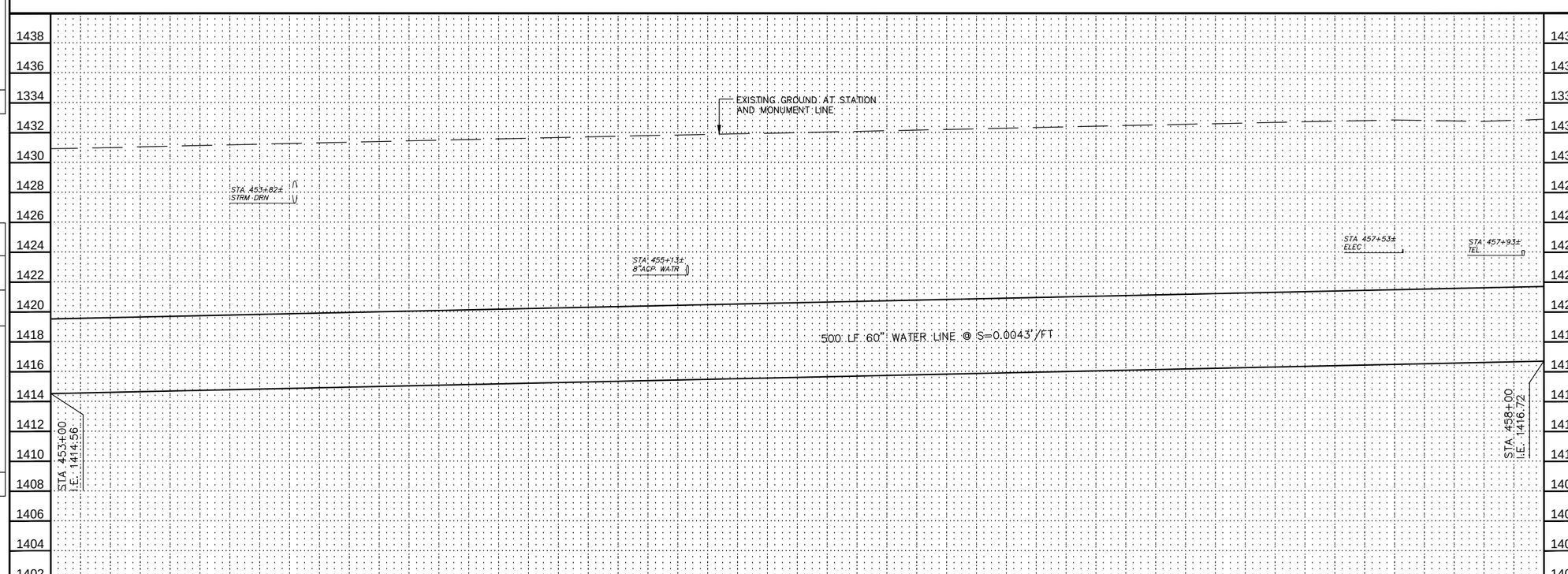
1	INSTALL 60" WATER LINE	LF	500





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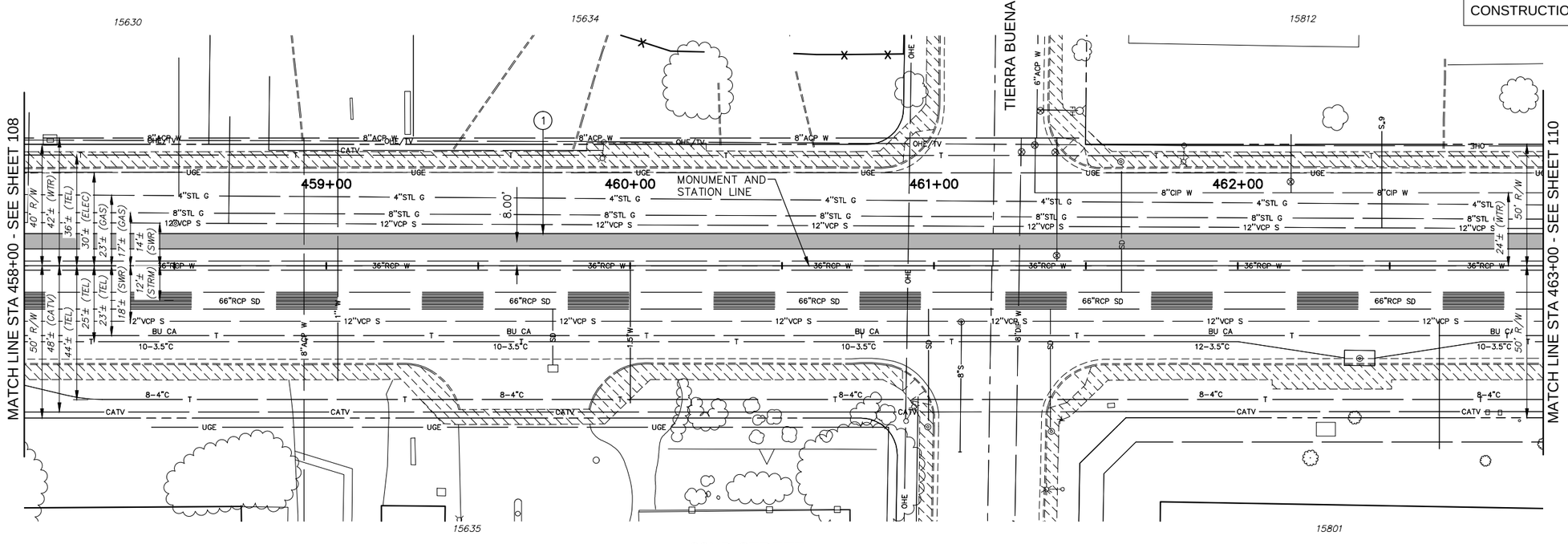

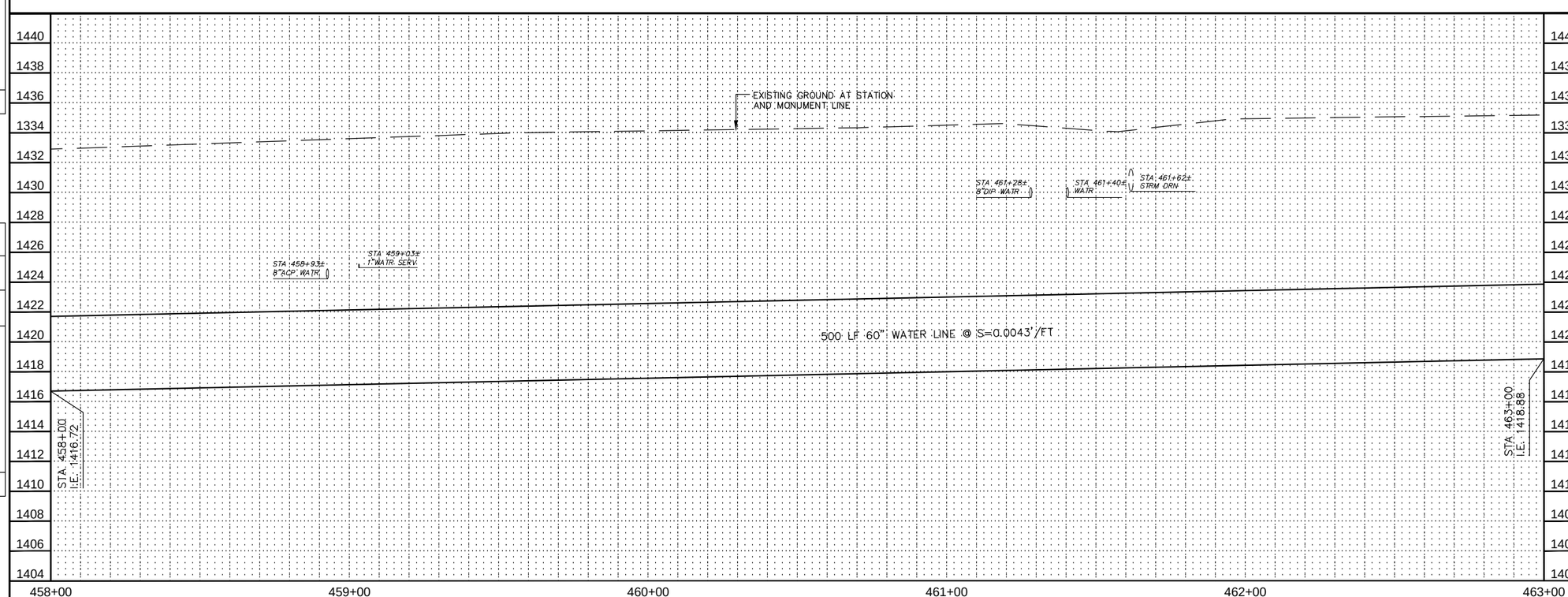

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

Call 811 or click Arizona811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	109	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

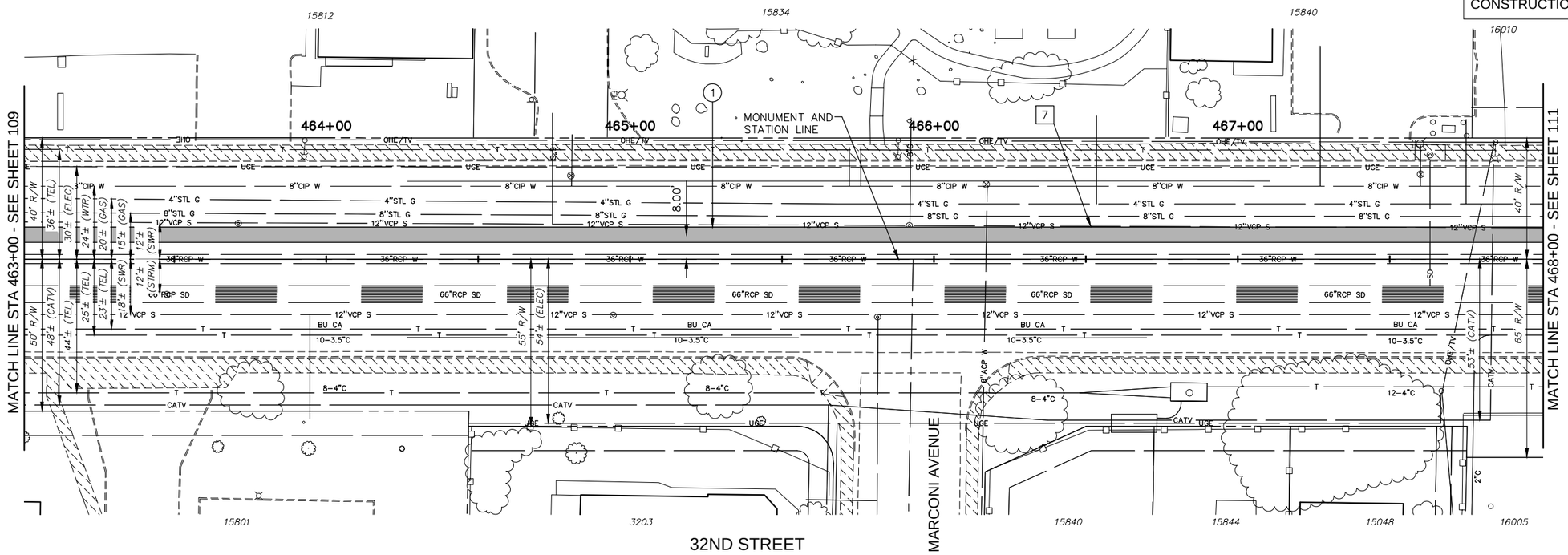
City of Phoenix

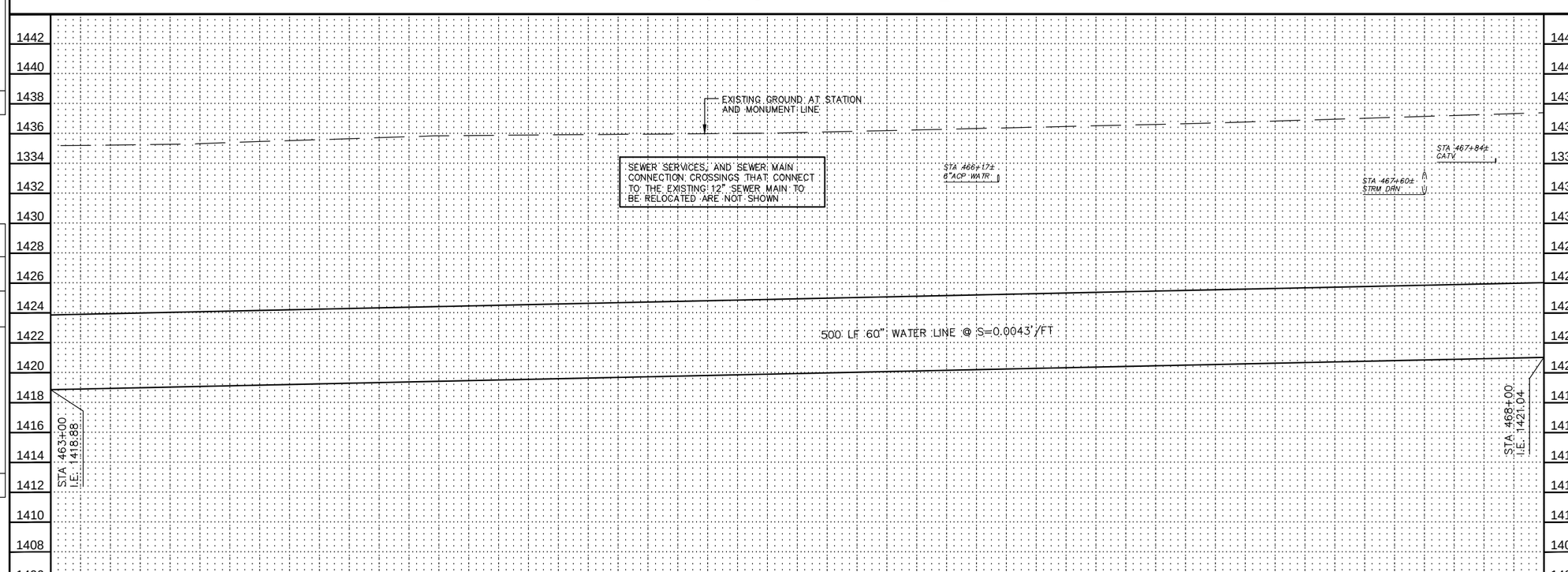
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	110	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
7	RELOCATE 12" VCP SEWER LINE	LF	220

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	110	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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9	ARIZ.	WS85100047-2	111	117

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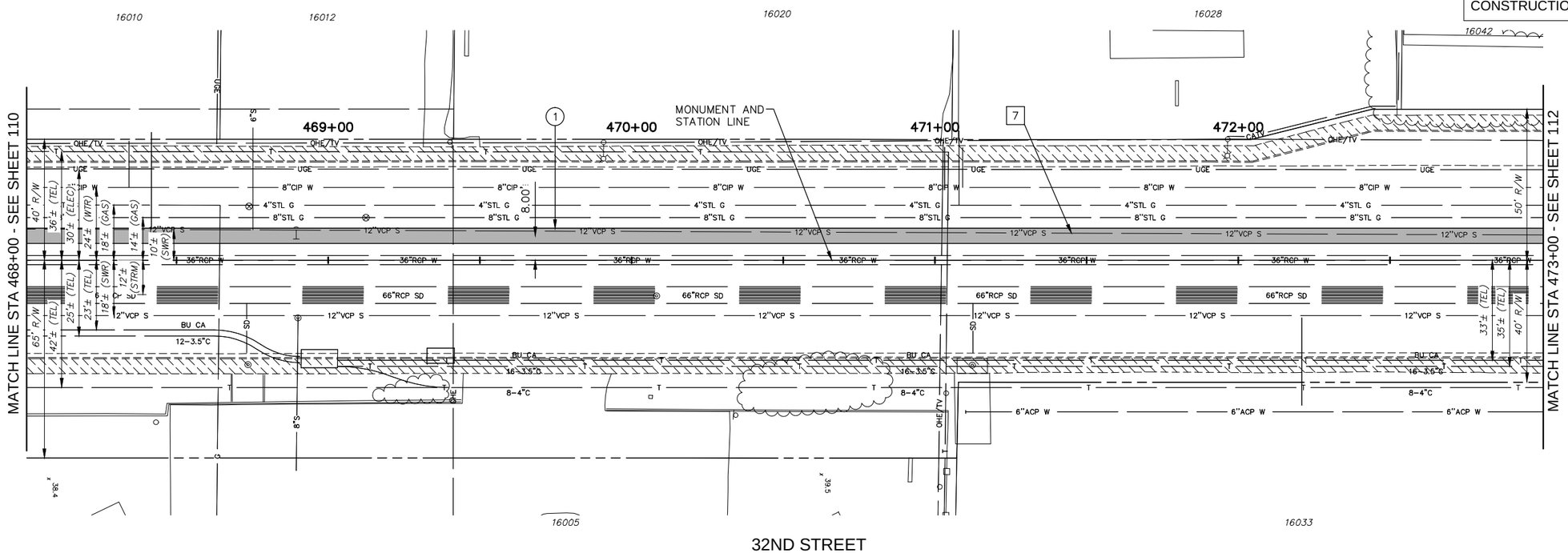

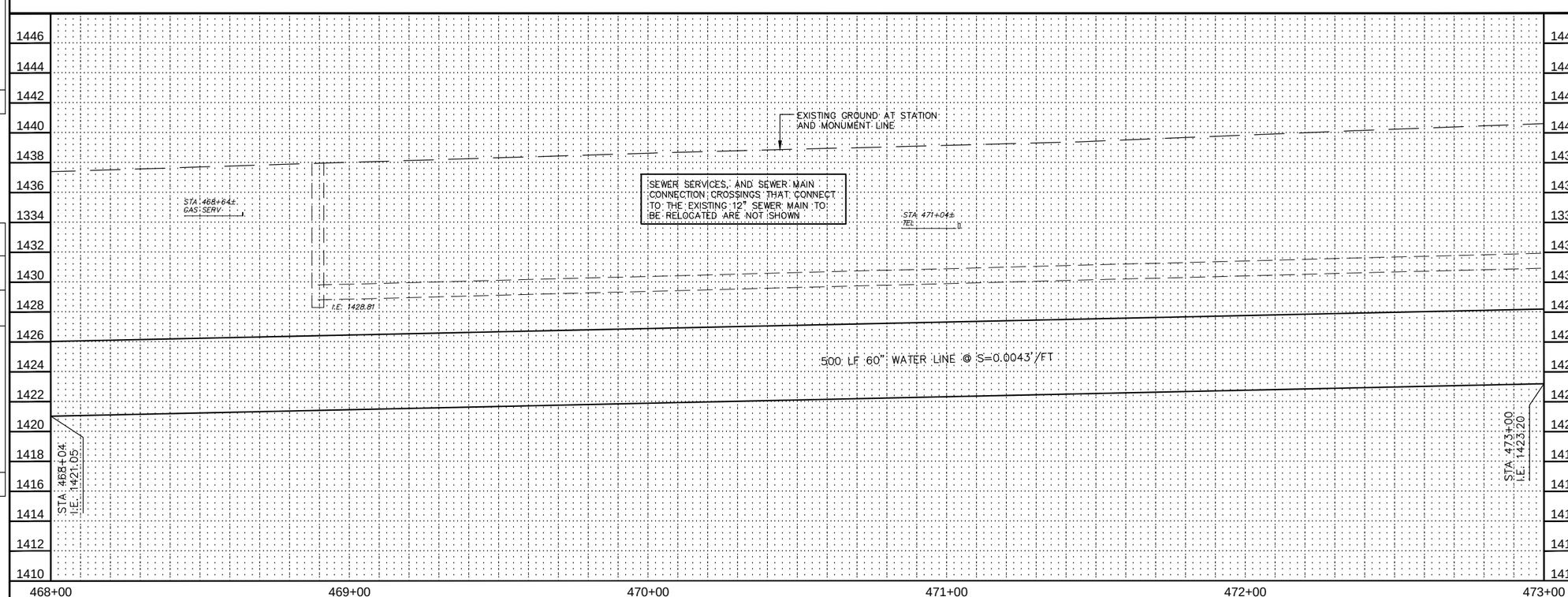

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
7	RELOCATE 12" VCP SEWER LINE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	111	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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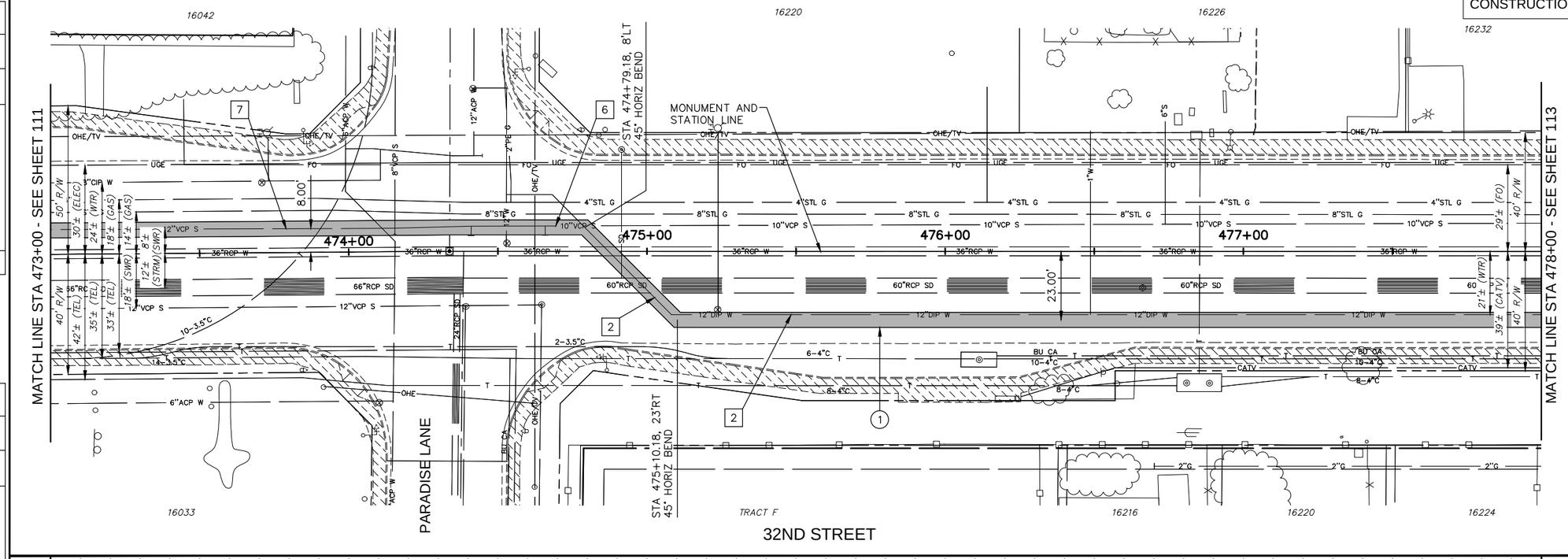

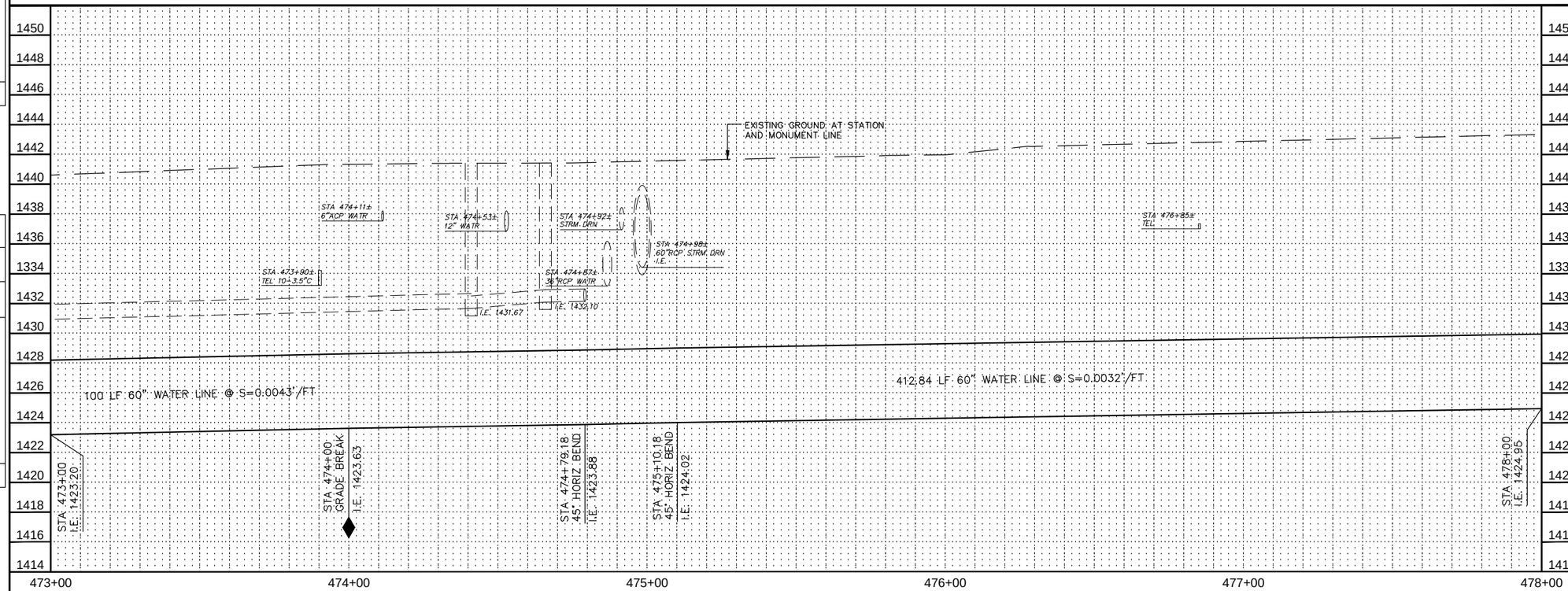

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	513

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	RELOCATE 12" DIP WATER LINE	LF	347
6	RELOCATE 10" VCP SEWER LINE	LF	27
7	RELOCATE 12" VCP SEWER LINE	LF	166

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			112	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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9	ARIZ.	WS85100047-2	113	117

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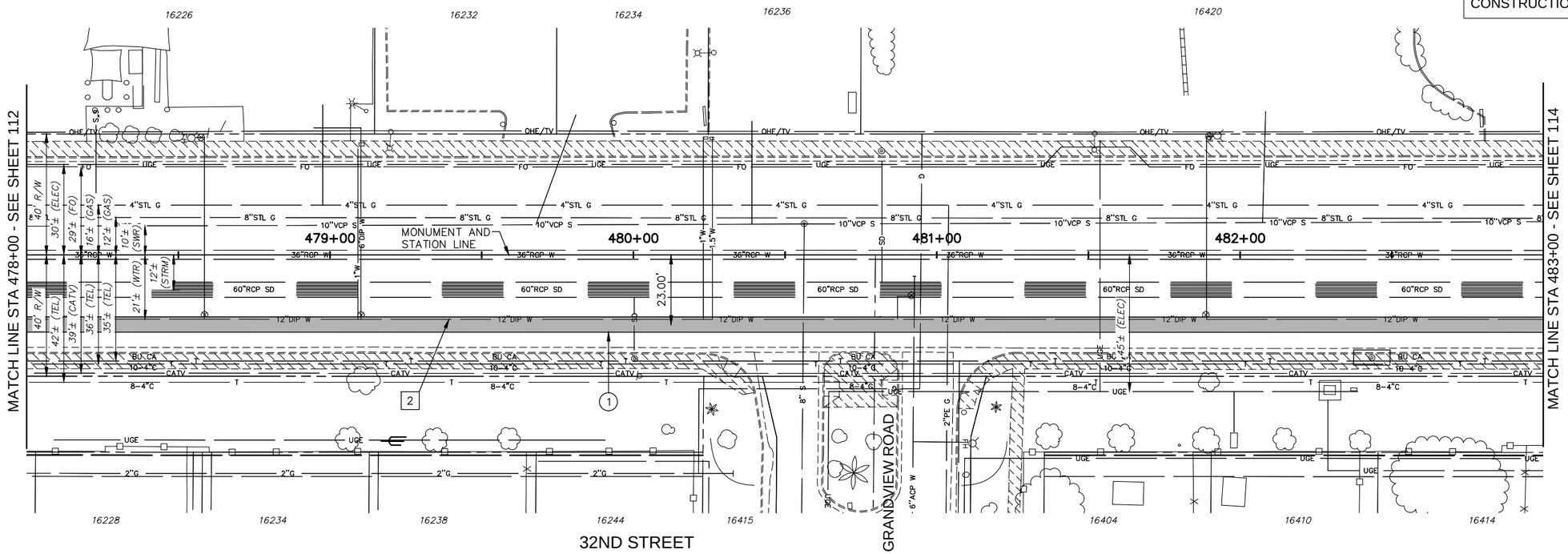

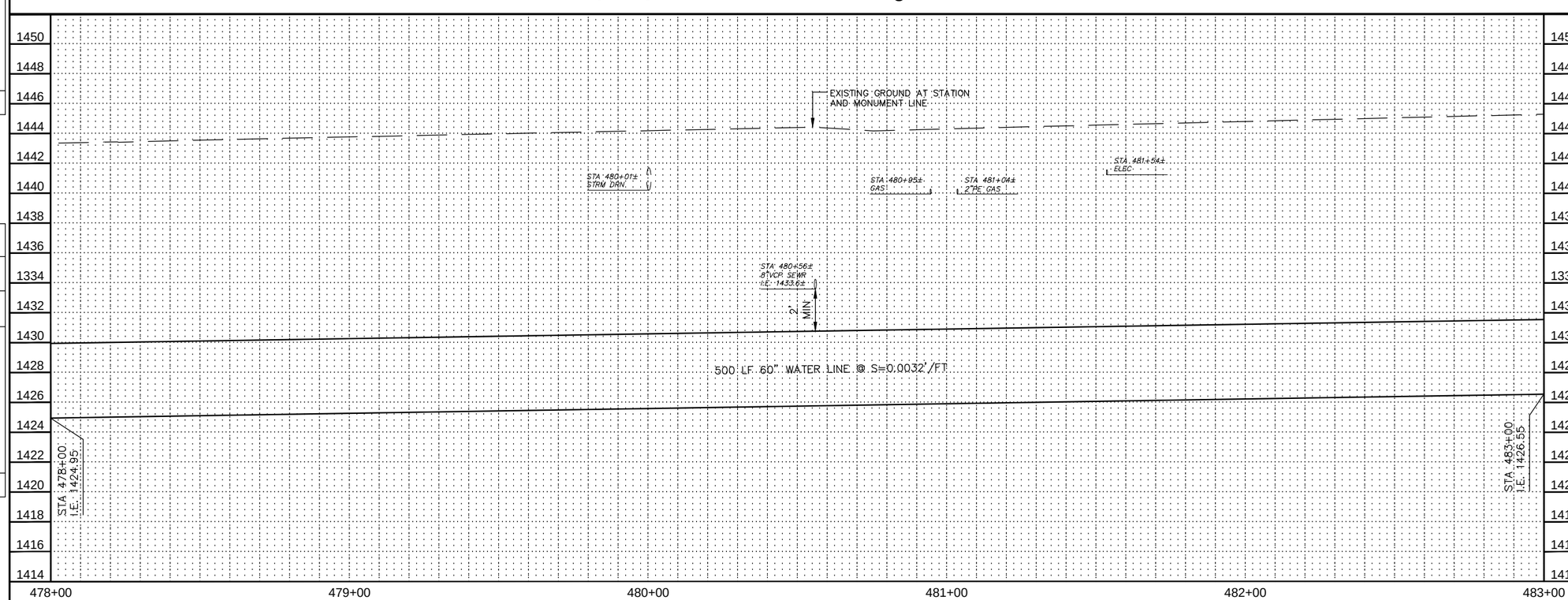

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	RELOCATE 12" DIP WATER LINE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	113	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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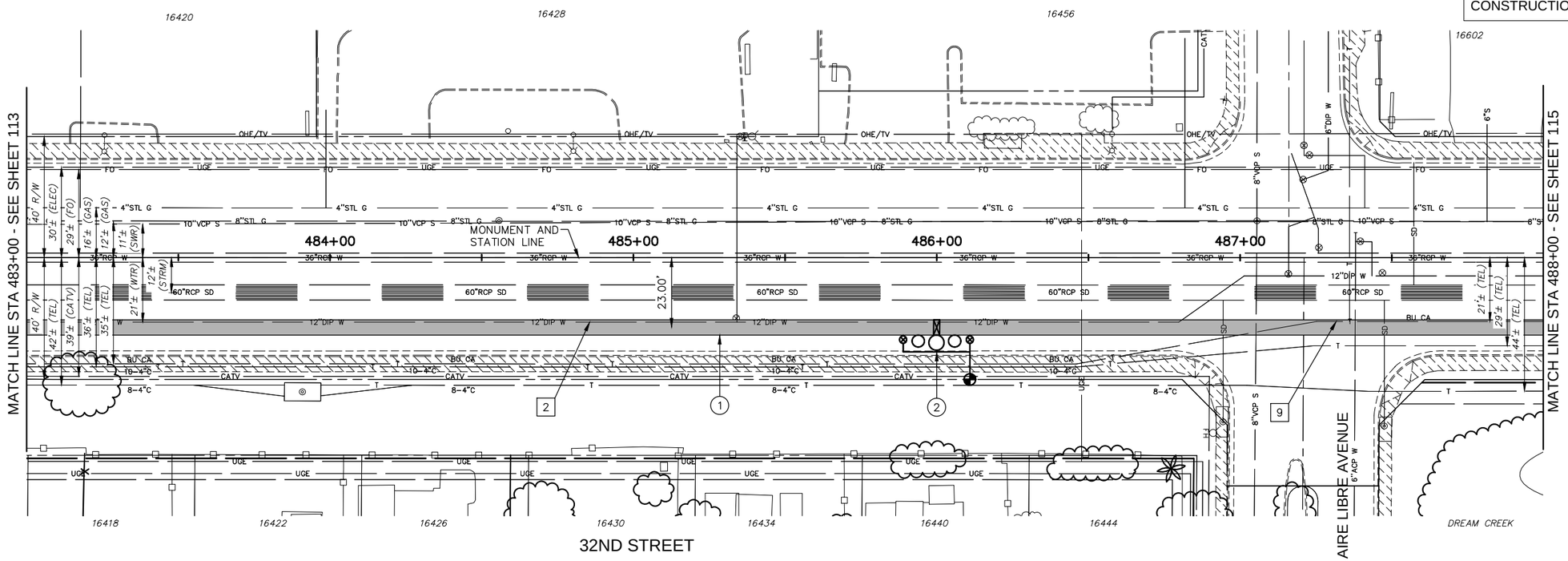

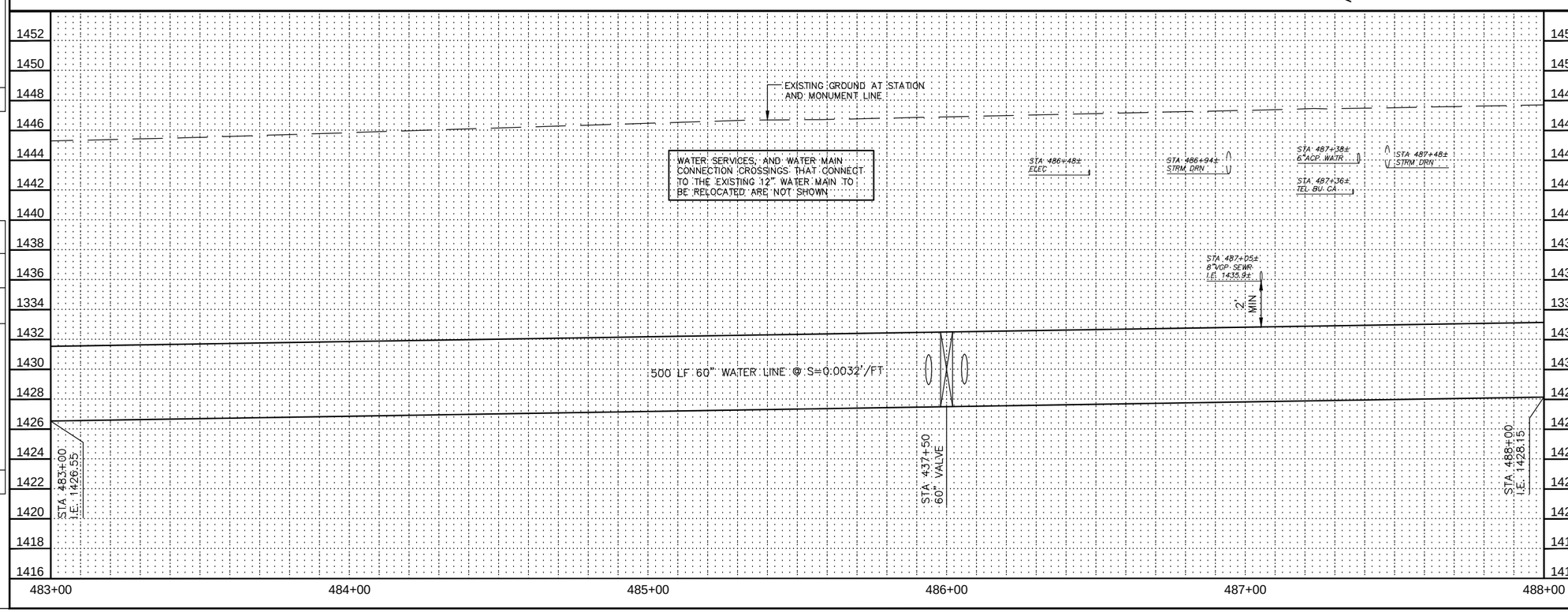

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	RELOCATE 12" DIP WATER LINE	LF	391
9	RELOCATE TELEPHONE BURIED CABLE	LF	110

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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SCALE: HORIZ 1"=20' VERT 1"= 4'				

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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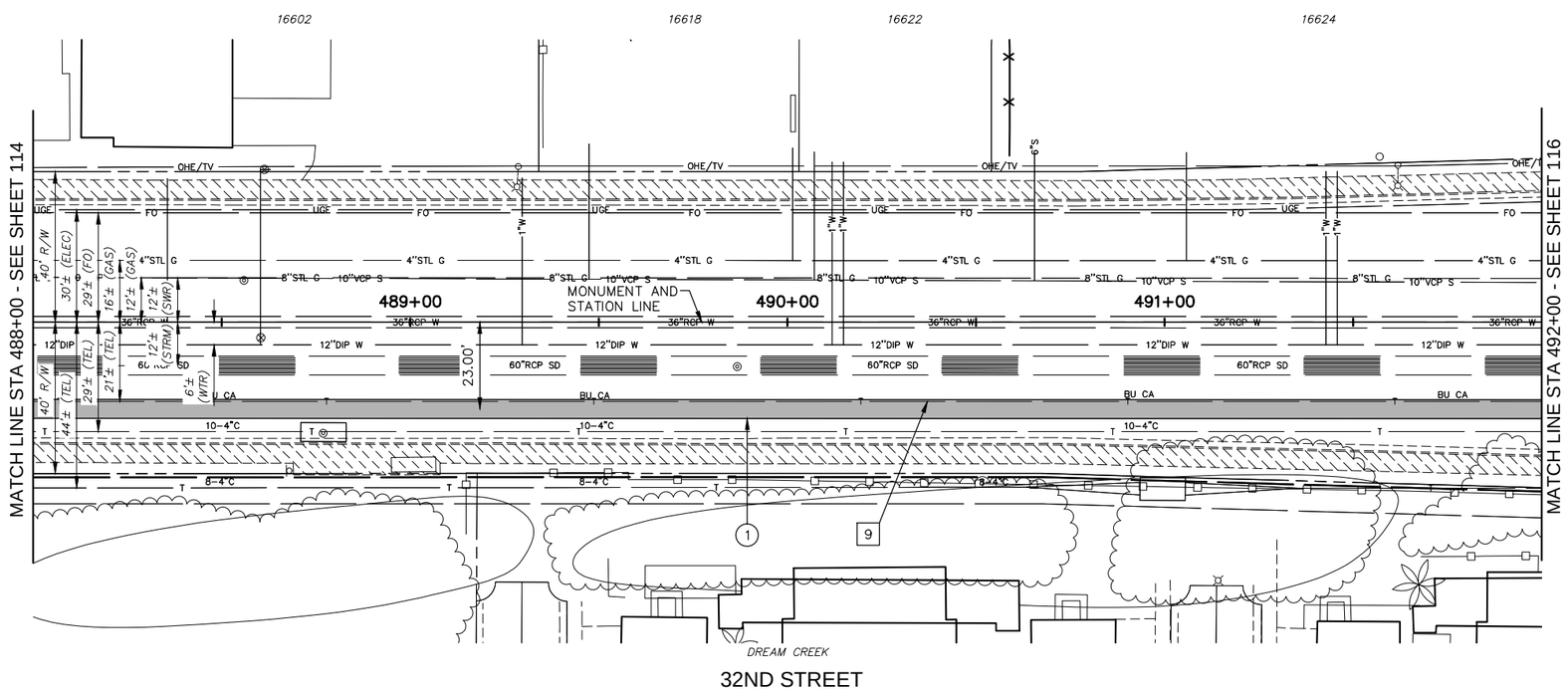

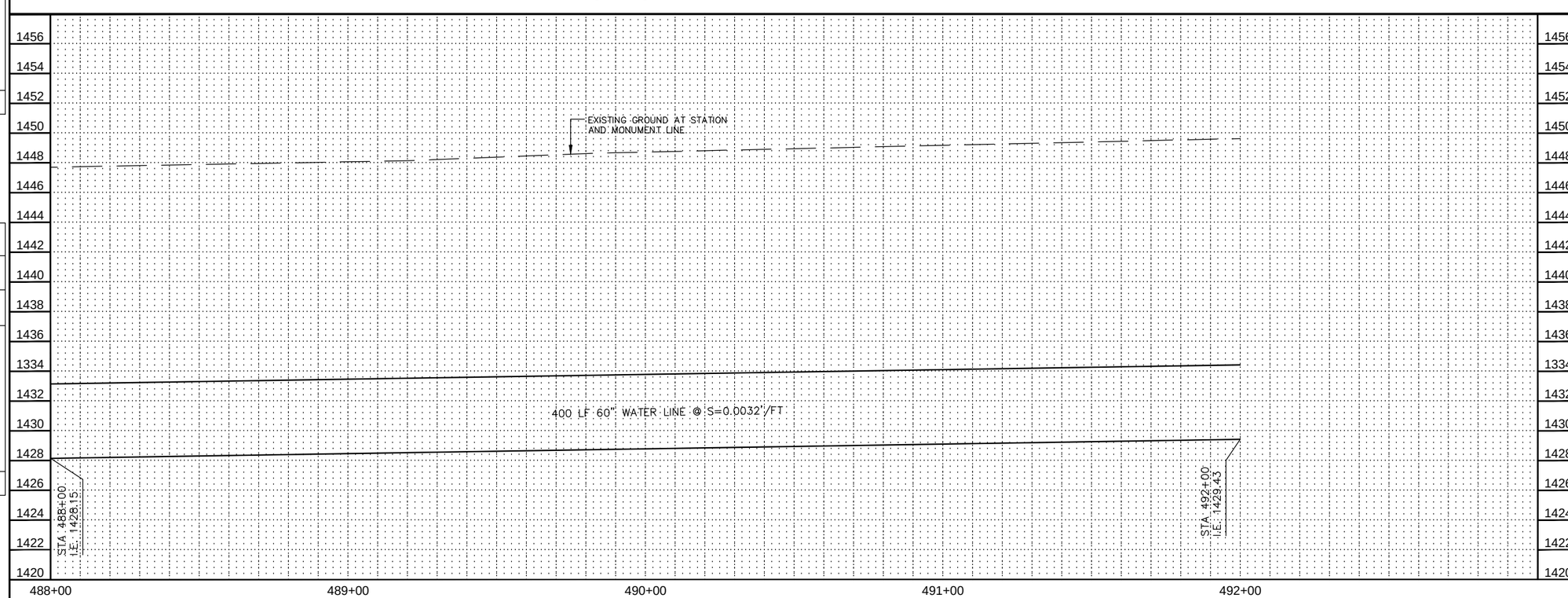

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	–

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
9	RELOCATE TELEPHONE BURIED CABLE	LF	500

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WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	115	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

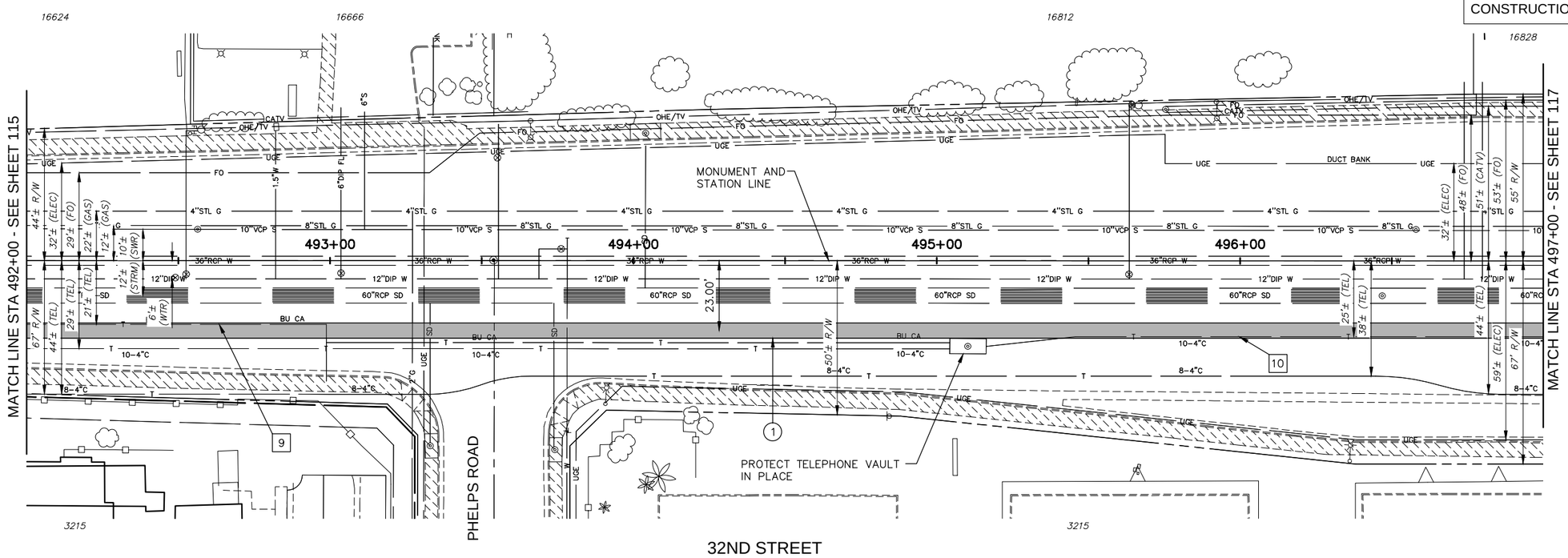
City of Phoenix

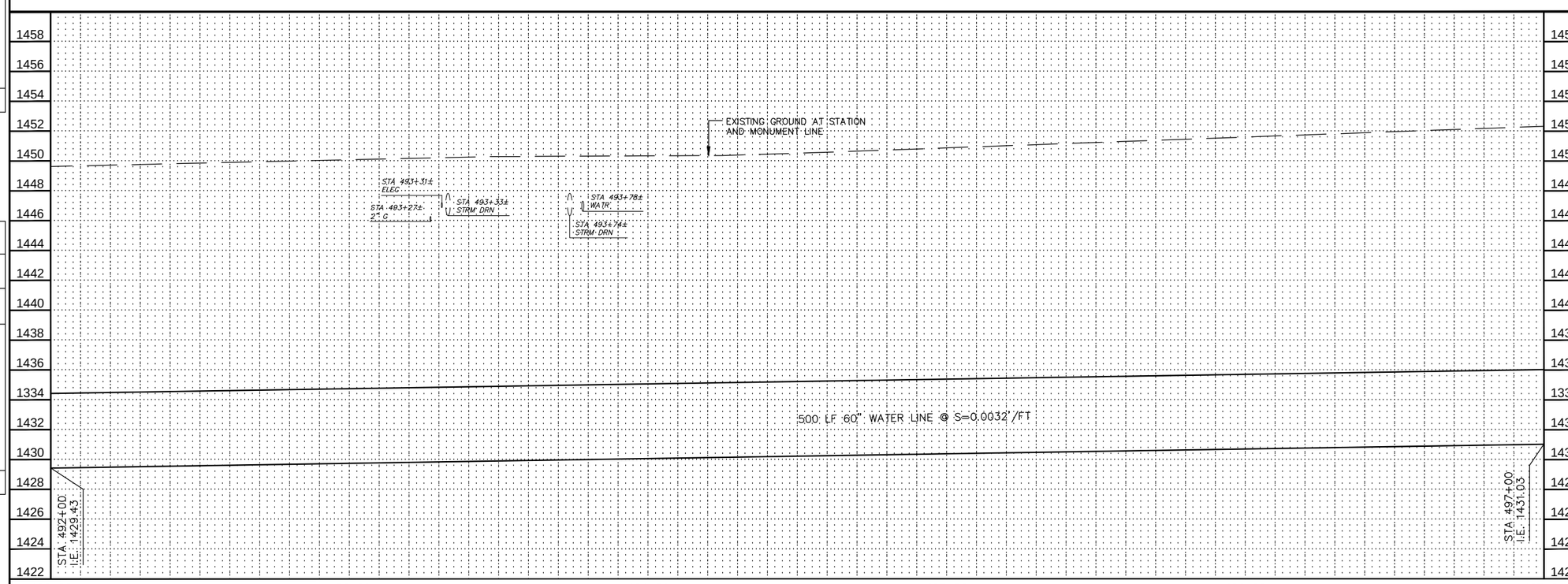
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	116	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
9	RELOCATE TELEPHONE BURIED CABLE	LF	110
10	RELOCATE TELEPHONE DUCT BANK	LF	171

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.

PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

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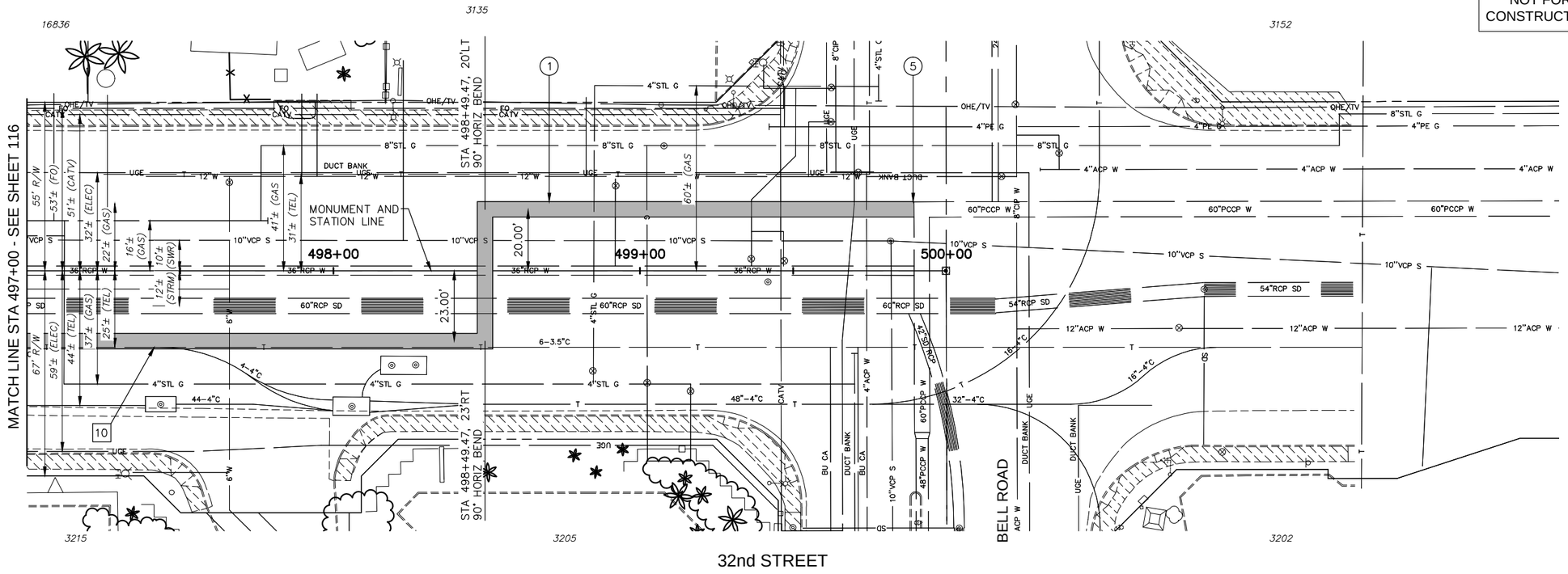

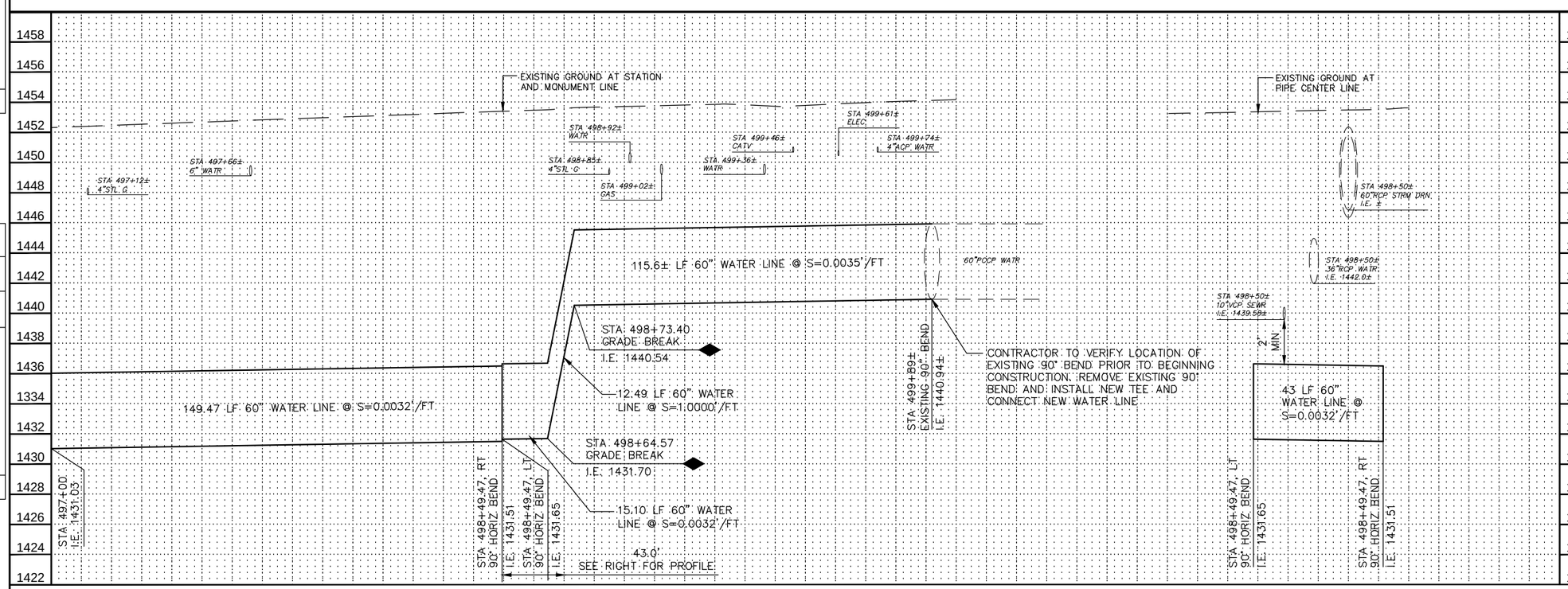

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	333
5	REMOVE 90° BEND AND CONNECT 60" WATER LINE	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
10	RELOCATE TELEPHONE DUCT BANK	LF	162

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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