ONSITE UTILITIES PLANS (PUBLIC & PRIVATE) CANYON TRAILS TOWN CENTER N.E.C. OF COTTON LANE AND YUMA ROAD GOODYEAR, ARIZONA

A PORTION OF THE WEST HALF OF SECTION 12, TOWNSHIP 1 NORTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, CITY OF GOODYEAR, MARICOPA COUNTY, ARIZONA.

LEGAL DESCRIPTION (per Title Report) THAT PART OF THE WEST HALF OF SECTION 12, TOWNSHIP 1 NORTH, RANGE 2 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY. arizona. More particularly described as follows:

BEGINNING AT THE IRON BAR MARKING THE SOUTHWEST CORNER OF SAID SECTION 12:

THENCE NORTH 0019'20" EAST ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 12, A DISTANCE OF 2645.41 FEET TO A BRASS CAP IN A HANDHOLE MARKING THE WEST QUARTER CORNER OF SAID SECTION

THENCE SOUTH 89°45'31" EAST ALONG THE EAST-WEST MIDSECTION LINE OF SAID SECTION 12: A DISTANCE OF 432.70 FEET TO THE BEGINNING OF A TANGENT CURVE OF 800.00 FEET RADIUS, CONCAVE NORTHWESTERLY:

Thence northeasterly along said curve, through a central angle OF 18'52'06". A DISTANCE OF 263.45 FEET:

THENCE NORTH 7122'23" EAST, A DISTANCE OF 552.15 FEET TO THE BEGINNING OF A TANGENT CURVE OF 600.00 FEET RADIUS, CONCAVE SOUTHEASTERLY:

THENCE NORTHEASTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 01'57'22". A DISTANCE OF 20:49 FEET:

THENCE SOUTH 07'24'16" EAST, A DISTANCE OF 363.68 FEET TO THE BEGINNING OF A TANGENT CURVE OF 700.00 FEET RADIUS, CONCAVE NORTHEASTERLY:

THENCE SOUTHEASTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 27'46'50", A DISTANCE OF 339.40 FEET;

THENCE SOUTH 35'1'06" EAST, A DISTANCE OF 437.09 FEET TO THE BEGINNING OF A TANGENT CURVE OF 1000.00 FEET RADIUS, CONCAVE SOUTHWESTERLY;

THENCE SOUTHEASTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 1407'24", A DISTANCE OF 246.50 FEET TO THE BEGINNING OF A Tangent compound curve of 3600.00 FEET Radius, concave SOUTHWESTERLY:

THENCE SOUTHEASTERLY ALONG SAID CURVE. THROUGH A CENTRAL ANGLE OF 2118'35". A DISTANCE OF 1338.93 FEET:

THENCE SOUTH 0074'53" WEST, A DISTANCE OF 319.59 FEET TO A POINT ON THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 12:

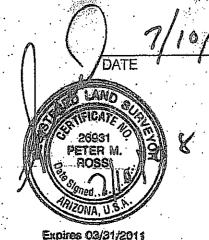
THENCE NORTH 89°45'07" WEST ALONG SAID SOUTH LINE, A DISTANCE OF 2025.00 FEET TO THE TRUE POINT OF BEGINNING

"AS-BUILT" CERTIFICATION

HEREBY WERTIFY DAAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE

REGISTERED LAND SURVEYOR

6 EXISTING VEGETATION



OWNER/DEVELOPER

VESTAR DEVELOPMENT COMPANY .2425 EAST CAMELBACK ROAD SUITE 750 PHOENIX, AZ 85016 PH: (602) 866-0900 FAX: (602) 955-2298 CONTACT: JACK VAN KLEUNEN

ARCHITECT

KURT D. REED ASSOCIATES, INC. 7400 E. MCDONALD DRIVE. SUITE 101 SCOTTSDALE, ARIZONA 85250 PHONE: (480) 941-1440 FAX: (480) 948-1055 CONTACT: PATRICIA FLOWER

ENGNEER

OPTIMUS CIVIL DESIGN GROUP, L.L.C. 2323 E. MAGNOLIA STREET. SUITE 107 PHOENIX, ARIZONA 85034 PH: (602) 286-9300 FAX: (602) 286-9400 CONTACT: ADAM RAUSCHER. P.E.

MATERIALS LIST-ONSITE QUANTITIES

ONSITE PRIVATE SEWER

4,058 LF. 8° PVC SDR-35 214 LF. 8" MECHANICAL JOINT D.I.P. SEWER 3,097 LF. 6" PVC SDR-35 20 EA. MANHOLE 13 EA. CLEANOUT

51 EA. SEWER BUILDING CONNECTION

ONSITE PUBLIC/PRIVATE WATER 12" DIAMETER D.I.P. WATERLINE (CLASS 150 MIN.) 8" DIAMETER D.I.P. WATERLINE (CLASS 150 MIN.) 6" DIAMETER D.I.P. WATERLINE (CLASS 150 MIN.) SERVICES LINES 5.840 L.F. FIRE HYDRANTS 47 EA.

> ALL QUANTITIES ARE ESTIMATES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THEIR OWN QUANTITIES FOR BIDDING.

OPTIMUS SURVEY SERVICES 4650 E. COTTON CENTER BLVD., SUITE 149 PHOENIX, ARIZONA 85040 PHONE: (602) 286-9300 FAX: (602) 23-9000 PETER M. ROSSI, RLS

PROPOSED CLEANOUT

					3END	# 2G	istration no.: 20	331
辨	EXISTING	CACTUS		EXISTING	BACKFLOW PREVENTER	₹ 0	INDICATES E	BOUNDARY CORNER, REBAR
		CATCH BASIN	23 v. n.	EXISTING	WATER METER		INDICATES I	FOUND BRASS CAP
-, -, ,		STORM DRAIN MANHOLE FIRE HYDRANT	₩. V.	EXISTING	WATER VALVE	6	·	FOUND MONUMENT
@ G. V.		GAS VALVE	—-E	EXISTING	ELECTRIC LINE		EASEMENT I	
_ <u> </u> <u> </u>		IRRIGATION BOX	—- -		GAS LINE		MONUMENT	
	·	IRRIGATION VALVE			STORM DRAIN SEWER MAIN		BOUNDARY	UNE SEWER LINE
		LIGHT POLE W/SINGLE ARM			TELEPHONE LINE			FIRE SERVICE LINE
. ~~	EXISTING EXISTING	PALM TREE SIGN	₩	•	WATER MAIN	V_	PROPOSED	WATER SERVICE LINE
•	•	SANITARY SEWER MANHOLE	75.2 *		SPOT ELEVATION	· ®	,	WATER VALVE
	EXISTING	TRANSFORMER	FL	PROPOSE FLOWLINE	D WALL ELEVATION	6	PROPOSED PROPOSED	FIRE HYDRANT
7 10 20	EMICTIMA	ACCETATION		TABLE AR A	nino el el lationi			104 Let At 1 A C to F

TOP OF CURB ELEVATION

BENCHMARK

MCHD BCHH AT COTTON LANE AND W. VAN BUREN ST. ELEVATION = 991.50 PER CANYON TRAILS DATUM (THIS BENCHMARK HAS RECENTLY BEEN DESTROYED DUE TO RECENT CONSTRUCTION.)

TEMPORARY BENCHMARK

SET CHISELED "X" ON THE SOUTHWEST CORNER OF THE WEST END OF SIDEWALK, NORTH SIDE OF W. CANYON TRAILS BLVD., WEST OF 169TH

ELEVATION = 980.27 PER CANYON TRAILS DATUM

BENCHMARK EQUATION CANYON TRAILS DATUM 991.50 MINUS 2.10 = CITY OF GOODYEAR DATUM 989.40

BASIS OF BEARINGS

BEING THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 12 T. 1 N., R. 2 W., G. & S. R. B. & M., MARICOPA COUNTY, ARIZONA (AKA THE CENTERLINE OF COTTON LANE) SAID LINE BEARS: N. 0019'20" E. AS SHOWN ON THE MAP OF DEDICATION OF "COTTON LANE AND CANYON TRAILS BOULEVARD INFRASTRUCTURE" RECORDED IN BOOK 750 OF MAPS, PAGE 35, MARICOPA COUNTY RECORDS.

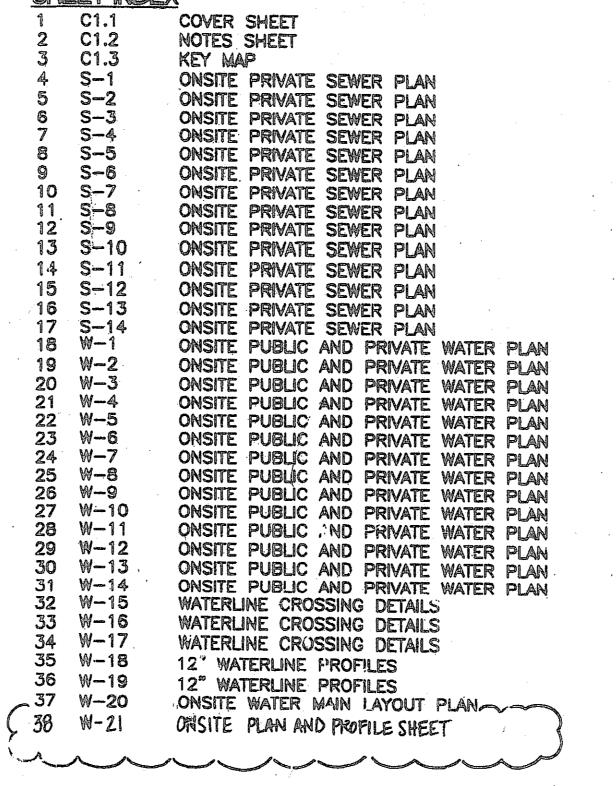
ESTIMATED ON-SITE EARTHWORK QUANTITIES

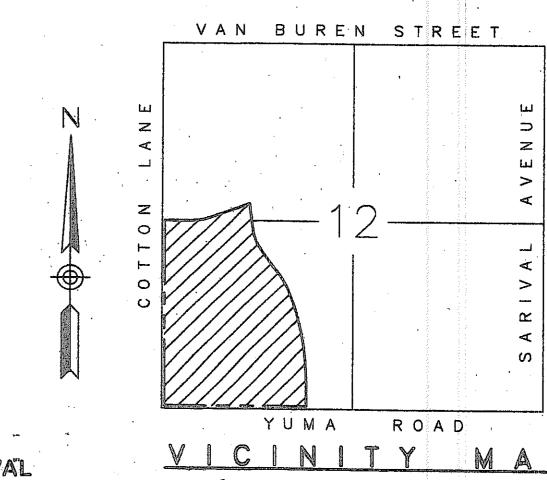
CUT 98,000 CY (RAW DATA ONLY) FILL 124,373 CY

UTILITY SYSTEM OWNERSHIP:

CITY OF GOODYEAR SEWER CITY OF GOODYEAR GAS SOUTHWEST GAS ELECTRIC CABLE + TELEVISION COX CABLE TELEPHONE QWEST

SHEET NOEX





AS-BUILT APPROVAL DATE 10-30-08

INSPECTOR Dailout PLAN REVIEWER Roll Link for B. NELSON CITY OF GOODYEAR ENGINEERING

CERTIFICATION:

JAMSHEED D.

BEHRANA

HEREBY CERTIFY THAT THIS DESIGN IS BASED ON ACCURATE FIELD DATA WHICH HAS BEEN CHECKED IN THE FIELD PRIDA TO SUBMISSION FOR CITY APPROVAL

REGISTERED ENGINEER/SURVEYOR

AS-BUILT CERTIFICATION:

HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAIN UNDER MY SUPERVISION AND/IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED CIVIL ENGINEER

FIELD ENGINEERING

IARICOPA COUNTY ENVIRONMENTAL ERVICES DEPARTMENT

AMENDMENT APPROVAL BY: 11/30/07 PLANS EXAMINER SHEETS W-13, W-14, W-38

AMENDMENT APPROVAL BY: SHEETS C1.3,W-2,W-4,W-5,W-8,W-8,W-11,W-14

> TED SECTION DATE SERVER VIVE OF CAUL FOR THE DILE STATE 1-800-782-5348

	CITY OF GO	ODYEAR						
review and recommended approval by:								
FIRE DEPT.	JU	GRADING & DRAINAGE						
Landscaping & Planning		WATER & SEWER	Jup					
TRAFFIC		PAVING						
APPROVED BY: January Valady Pan 9/19/07								

2007-108-C3-001

PLANS EXAMINER DATE







DESIGNED: DRAWN: AZ/JS/C3 CHECKED: EDS, AJR DATE: 04/16/07 JOB NO.: 031039 DRAWING NO

CITY OF GOODYEAR

GENERAL NOTES FOR CONSTRUCTION

- A. ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST M.A.G. STANDARD DETAILS AND SPECIFICATIONS AND THE CITY'S SUPPLEMENTAL DETAILS AND SPECIFICATIONS.
- THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
- C. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- D. THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS APPROVAL IS VALID FOR A PERIOD OF ONE YEAR. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL
- E. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL
- F. THE CITY SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CONSTRUCTION WORK AND INSPECTIONS AT (623) 882-7979. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- G. RIGHT-OF-WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY. (SEE AS-BUILT REQUIREMENTS.)
- H. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW
- THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF PERMITS
- THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF PERMITS.
- K. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602) 263-1100 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- L. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
- M. THE CONTRACTOR MAY REQUEST A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM THE FINANCE DEPARTMENT. THIS METER SHALL BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPA CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT. (POTABLE WATER IS NOT AVAILABLE FOR CONSTRUCTION PURPOSES)
- N. PRIVATE ONSITE WATER AND SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, N.F.P.A., AND THE UNIFORM FIRE CODE AS ADOPTED BY THE CITY.

CITY OF GOODYEAR

GENERAL NOTES FOR WATER MAIN CONSTRUCTION

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT M.A.G. SPECIFICATIONS AND STANDARD DETAILS.

THIS CONTRACT ALLOWS THE OWNER TO REQUIRE THE SUBMISSION OF BILLING CYCLES OTHER THAN THIRTY DAYS. A WRITTEN DESCRIPTION ON REQUEST.

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO
- CITY OF GOODYEAR INSPECTORS SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION, AND EACH INSPECTION REQUESTED AT (623) 882-7979.
- D. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER, AND ANY WORK/MATERIAL NOT IN COMFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL EXPOSE ANY LINES BEING TIED INTO TO VERIFY
- F. CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED BY BLUESTAKE (602-263-1100) AND SHALL ELIMINATE ALL CONFLICTS PRIOR TO CONSTRUCTION.
- G. CITY OF GOODYEAR IS NOT LIABLE FOR DELAYS NOR DAMAGES TO UTILITIES RELATED TO THIS CONSTRUCTION: NEITHER WILL THE CITY PARTICIPATE IN THE COST OF UTILITY CONSTRUCTION NOR RELOCATION.
- H. AS-BUILT DRAWINGS (ONE SET MYLARS AND TWO SETS OF PRINTS), CERTIFIED BY THE SUBDIVIDER'S ENGINEER. SHALL BE SUBMITTED TO AND ACCEPTED BY THE CITY ENGINEER BEFORE FINAL ACCEPTANCE OF THE WORK.
- BACKFILLING SHALL NOT BE DONE UNTIL LINES ARE INSPECTED AND APPROVED BY THE CITY ENGINEER
- J. VALVES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO M.A.G. AND C.O.G. SUPPLEMENTS. APPROVED VALVES LIST IS AVAILABLE AT THE WATER RESOURCES DEPARTMENT.
- K. BACKFLOW PREVENTOR SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO M.A.G. AND C.O.G. SUPPLEMENTS. APPROVED VALVES LIST IS AVAILABLE AT THE WATER RESOURCES DEPARTMENT.
- FIRE HYDRANTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, AND SHALL BE PAINTED CHROME YELLOW AFTER INSTALLATION. APPROVED FIRE HYDRANT LIST IS AVAILABLE AT THE PUBLIC WORKS DEPARTMENT.
- M. ALL SERVICE LINES SHALL BE TYPE "K" COPPER PIPE OR TUBING. THE MINIMUM SIZE SERVICE SHALL BE ONE INCH. SERVICE LINES SHALL BE CONTINUOUS UNDER PAVEMENT WITHOUT A CONNECTION OR EXTENSION.
- N. ALL TAPS SHALL USE BRONZE DOUBLE STRAP SERVICE SADDLE.
- DEVELOPER IS TO INSTALL ALL TAPS AND METER BOXES. THE TAP SHALL TERMINATE WITH AN ANGLE METER VALVE WITHIN THE BOX SET 6 INCHES BEHIND THE SIDEWALK AND 8 INCHES BELOW THE BACK OF THE SIDEWALK. THE METER BOX SHALL BE SET FLUSH TO THE GROUND AT THE BACK OF THE SIDEWALK AND AT THE PROPERTY LINE WHERE SIDEWALKS DO NOT EXIST.
- METERS SHALL BE FURNISHED AND INSTALLED BY UTILITY AGENCY. ALL METERS SHALL BE SENSUS TOUCH READ MODEL.
- Q. PAVEMENT REPLACEMENTS SHALL BE MADE TO M.A.G. STANDARD
- ALL WATER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE ACROSS RIGHT-OF-WAY TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS PARALLELING STREET RIGHT-OF-WAY.

CITY OF GOODYEAR

GENERAL NOTES FOR SEWER MAIN CONSTRUCTION:

- A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT M.A.G. SPECIFICATIONS AND STANDARD DETAILS.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- C. CITY OF GOODYEAR INSPECTORS SHALL BE NOTIFIED AT (623) 882-7979, 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION AND EACH INSPECTION REQUESTED.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER, AND ANY WORK/MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR WILL EXPOSE ANY LINES BEING TIED INTO TO VERIFY LOCATION.
- CONTRACTOR SHALL HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED BY BLUESTAKE (602-263-1100) AND SHALL ELIMINATE ALL CONFLICTS PRIOR TO CONSTRUCTION.
- CITY OF GOODYEAR IS NOT LIABLE FOR DELAYS NOR DAMAGES TO UTILITIES RELATED TO THIS CONSTRUCTION; NEITHER WILL THE CITY PARTICIPATE IN THE COST OF UTILITY CONSTRUCTION NOR RELOCATION.
- AS-BUILT DRAWINGS (ONE SET MYLARS AND TWO SETS OF PRINTS), CERTIFIED BY THE SUBDIVIDER'S ENGINEER. SHALL BE SUBMITTED TO AND ACCEPTED BY THE CITY ENGINEER BEFORE FINAL ACCEPTANCE OF THE WORK.
- BACKFILLING SHALL NOT BE DONE UNTIL LINES ARE INSPECTED AND APPROVED BY THE CITY ENGINEER.
- PAVEMENT REPLACEMENTS SHALL BE MADE TO M.A.G. STANDARD DETAILS.

CITY OF GOODYEAR

GENERAL NOTES FOR SEWER MAIN CONSTRUCTION CONTINUED

- PVC SEWER PIPE MAY BE USED AS AN ALTERNATIVE FOR VITRIFIED CLAY SEWER PIPE IN ACCORDANCE WITH M.A.G. SPECIFICATION SECTION 745 FOR SIZES THROUGH 15-INCH WITH THE FOLLOWING ADDITION: 745.8 INSTALLATION AND TESTING: INSTALLATION MUST ALSO COMPLY WITH STANDARD SPECIFICATION (ASTM D 2321). SHORT TERM DEFLECTION TESTING SHALL BE PERFORMED ON THE TOTAL FOOTAGE, AFTER COMPLETE BACKFILL AND COMPACTION, BUT PRIOR TO THE INSTALLATION OF FINISH SURFACE MATERIAL ADDITIONAL TESTING MAY BE REQUIRED. A SHORT TERM DEFLECTION IN EXCESS OF 5 PERCENT SHALL BE CONSIDERED UNSERVICEABLE AND SHALL BE REPAIRED OR REPLACED AND RETESTED.
- A VISUAL INSPECTION OF THE INTERIOR OF THE SEWER LINE USING A TELEVISION CAMERA WILL BE PERFORMED ON THE TOTAL FOOTAGE OF ALL SEWER LINES. AFTER COMPLETE BACKFILL AND COMPACTION. BUT PRIOR TO THE INSTALLATION OF FINISH SURFACE MATERIAL. ANY PORTION CONSIDERED UNSERVICEABLE BY THE CITY SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CITY AND RETESTED. A VCR TAPE OF THE SEWER LINE AND REPORT OF OBSERVATIONS SHALL BE PROVIDED TO THE CITY FOR INSPECTION AND PERMANENT RECORD. ALL EXPENSES FOR VISUAL INSPECTION USING TELEVISION CAMERA IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MANHOLE RINGS AND LIDS TO BE CAST IRON, LIDS TO BE IMPRINTED "CITY OF GOODYEAR SANITARY SEWER"
- ALL TAPS SHALL BE WYE TYPE.
- SEWER TAPS SHALL BE MINIMUM 4.5' DEEP AT PROPERTY LINE.
- P. ALL SEWER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE ACROSS RIGHT-OF-WAY TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS PARALLELING THE RIGHT-OF.WAY.

OPTIMUS CYLL DESIGN GROUP SPECIFIC NOTES

- ANY QUESTIONS REGARDING THE INTERPRETATION OF THESE PLANS SHALL BE PRESENTED TO OPTIMUS. ANY ALTERATION OR VARIANCE FROM THESE PLANS MUST BE APPROVED BY OPTIMUS AND THE APPLICABLE AGENCY(S) PRIOR TO CONSTRUCTION. ANYONE WHO INTERPRETS, ALTERS OR CHANGES THESE DRAWINGS WITHOUT PRIOR APPROVAL SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- 2. THE QUANTITIES SHOWN ARE FOR INFORMATION AND/OR PERMITTING PURPOSES ONLY AND SHOULD NOT BE RELIED UPON. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE ITS OWN QUANTITIES FOR BIDDING AND IS ADVISED THAT GRADES WILL NOT BE ADJUSTED TO BALANCE THE SITE (ANY IMPORT/EXPORT IS THE CONTRACTOR'S RESPONSIBILITY UNLESS OTHERWISE AGREED TO BY THE OWNER). FURTHER, NO CLAIMS SHALL BE MADE AGAINST THE ENGINEER FOR ANY EXCESS OR DEFICIENCY IN THE QUANTITIES, ACTUAL OR RELATIVE. SOIL SHRINK/SWELL, PIPE VOLUME, AND SHADING MATERIALS WERE NOT CONSIDERED WHEN CALCULATING QUANTITIES.
- DUE TO VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF OPTIMUS, OPTIMUS MAKES NO REPRESENTATION OR GUARANTEE THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE.
- PRIOR TO BIDDING OR CONSTRUCTING ANY IMPROVEMENTS SET FORTH HEREIN. THE CONTRACTOR SHALL THOROUGHLY SATISFY ITSELF AS TO THE ACTUAL SITE CONDITIONS. CURRENT APPLICABLE CODES WHICH MAY MODIFY OR SUPERCEDE THE CONTENT OF THESE DRAWINGS, I.E., ADA COMPLIANCE, AND ANY SPECIAL REQUIREMENTS OF THE WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE BENCHMARK AND COMPARE THE SITE CONDITIONS WITH THE PLANS, AND THEN TO NOTIFY OPTIMUS OF ANY DISCREPANCIES. SHOULD ANY BENCHMARK, GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT, OPTIMUS SHALL BE NOTIFIED AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE AFFECTED AREA. IF OPTIMUS IS NOT NOTIFIED AS SET FORTH HEREIN, ANY DISCREPANCIES SHALL BE DEEMED TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENGAGE A REGISTERED LAND SURVEYOR TO PROVIDE ALL NECESSARY FIELD LAYOUT. STAKING AND FINAL AS-BUILTS FOR THIS PROJECT. IMMEDIATELY UPON COMPLETION OF EACH CATEGORY OF IMPROVEMENTS, I.E., WATER AND SEWER, CONTRACTOR SHALL DELIVER TO OPTIMUS A COMPLETE SET OF CITY APPROVED PLANS WITH NOTES THAT CLEARLY AND ADEQUATELY INDICATE THE AS-BUILT CONDITIONS, TOGETHER WITH THE CONTRACTOR'S LAND SURVEYOR'S CERTIFICATION OF THE ACCURACY OF SAID AS-BUILT NOTES. DEPENDING UPON THE RESPECTIVE GOVERNING AGENCY'S REQUIREMENTS. THE LAND SURVEYOR'S CERTIFICATION SHALL TAKE THE FORM OF A VALID STAMP ON THE COVER SHEET OF THE AS-BUILT PLAN SET AND/OR A SEPARATE STAMPED CERTIFICATION LETTER. CONTRACTOR SHALL BE REQUIRED TO CORRECT AND REVISE DEFICIENT AS-BUILTS UNTIL SAID AS-BUILTS ARE ACCEPTABLE TO OPTIMUS AND THE GOVERNING AGENCY(S).
- OPTIMUS SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- OPTIMUS HAS NOT PHYSICALLY LOCATED ANY EXISTING UNDERGROUND UTILITIES. AND HAS RELIED UPON AVAILABLE FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. OPTIMUS MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. FURTHER, OPTIMUS DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH IT DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
- OPTIMUS SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC., OR FOR ASSOCIATED LAND EXCHANGES AND EASEMENT PREPARATION/EXECUTION.
- UNLESS OTHERWISE NOTED, THE DEPTH OF COVER ON UNDERGROUND IMPROVEMENTS IS DESIGNED BASED UPON FINAL GRADE.
- 11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UNDERGROUND PIPES AND IMPROVEMENTS FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION.

OPTIMUS CML DESIGN GROUP SPECIFIC NOTES CONTINUED:

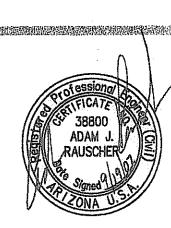
- 12. OPTIMUS MUST CERTIFY THE COMPLETION OF ALL ON AND OFFSITE (PUBLIC AND PRIVATE) WATER AND SEWER IMPROVEMENTS. IN ORDER FOR OPTIMUS TO CERTIFY THE COMPLETION OF SAID IMPROVEMENTS TO THE RESPECTIVE GOVERNING AGENCIES, THE CONTRACTOR SHALL PROVIDE OPTIMUS WITH AT LEAST TWENTY-FOUR (24) HOURS NOTICE PRIOR TO BACKFILL AND/OR SHADING OF OPEN TRENCHES SO THAT OPTIMUS MAY OBSERVE THE WATER AND SEWER IMPROVEMENTS. ALTHOUGH OPTIMUS WILL OBSERVE SELECTED IMPROVEMENTS, DOCUMENTATION OF AS-BUILT CONDITIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ITS SURVEYOR. CONTRACTOR'S FAILURE TO NOTIFY OPTIMUS OF ITS BACKFILL/SHADING SCHEDULE OR TO CLEARLY AND ADEQUATELY DOCUMENT AS-BUILT CONDITIONS MAY RESULT IN CONTRACTOR'S NEED TO UNCOVER (AND THEN BACKFILL AND RECOMPACT) THE WATER AND SEWER IMPROVEMENTS AT CONTRACTOR'S SOLE EXPENSE.
- 13. PRIOR TO CONSTRUCTING ANY RAMPS, SIDEWALKS AND PAVEMENT IMPROVEMENTS SHOWN ON THE PLANS, THE CONTRACTOR SHALL HAVE ITS REGISTERED LAND SURVEYOR CERTIFY THAT THE PROPOSED IMPROVEMENTS MEET CURRENT APPLICABLE CODES, I.E., ADA COMPLIANCE. IMPROVEMENTS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S SOLE EXPENSE.
- 14. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD ANY OF THE AFOREMENTIONED ITEMS DIFFER FROM THAT SHOWN ON THESE PLANS, OR SHOULD THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS CREATE A SITUATION THAT IS NOT ACCEPTABLE BY INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY OPTIMUS AND REQUEST CLARIFICATION PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THIS PROCEDURE IS NOT FOLLOWED
- 15. CONTRACTOR IS RESPONSIBLE FOR OVER-EXCAVATING LANDSCAPE AREAS TO ALLOW FOR PLANTING AND UTILITY TRENCHING SPOILS AND FOR THE FINAL LANDSCAPE TREATMENT, I.E., DECOMPOSED GRANITE OR TURF. THE CONTRACTOR'S LAND SURVEYOR SHALL CERTIFY ALL RETENTION BASINS FOLLOWING INSTALLATION OF THE IRRIGATION SYSTEM, GROUND COVER AND LANDSCAPING.
- 16. IF PAD CERTIFICATIONS ARE PERFORMED, IT IS UNDERSTOOD THAT THE CERTIFICATION PROVIDES ONLY A REPRESENTATIVE ELEVATION OF THE AVERAGE GRADE OF EACH LOT, BUILDINGS OR UNIT PAD, AND SHALL NOT BE CONSTRUED TO INCLUDE YARD AND STREET SUB-GRADE CERTIFICATION OR CERTIFICATION THAT THE ENTIRE PAD IS LEVEL. THAT IT WAS CONSTRUCTED IN THE DESIGNED LOCATION OR WAS GRADED OR COMPACTED TO THE CROSS-SECTION SET FORTH ON THE PLANS OR AS DESIGNATED IN THE SOILS REPORT.
- 17. THIS SET OF PLANS MAY HAVE BEEN PREPARED IN CONJUNCTION WITH SITE ARCHITECTURAL PLANS. IF SO, CONTRACTOR SHOULD CROSS REFERENCE THE SITE ARCHITECTURAL PLANS FOR ADDITIONAL RELEVANT INFORMATION NOT INCLUDED HEREIN. DISCREPANCIES BETWEEN THESE PLANS AND THE SITE ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF OPTIMUS AND THE ARCHITECT.
- 18. CONTRACTOR SHALL NOT MAKE ANY CLAIMS AGAINST THE OWNER OR OPTIMUS REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY EITHER THEIR OR THE OWNER'S SURVEYOR UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF. IN THE OPINION OF THE ENGINEER, THE STAKES WERE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT THE PROBLEM SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY STAKING WITH THE DESIGN PLANS AND NOTIFY SURVEYOR AND OPTIMUS OF DISCREPANCIES PRIOR TO CONSTRUCTION.
- 19. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO PURSUE ANY NEGOTIATIONS, OBTAIN ANY AGREEMENTS AND/OR PERMITS, ETC., FROM ALL PRIVATE OWNERS AND GOVERNMENTAL AGENCIES CONTROLLING PROPERTIES AND RIGHTS-OF-WAY THAT ARE AFFECTED BY ANY OF THE PROPOSED IMPROVEMENTS WITHIN THESE PLANS.
- 20. CONTRACTOR TO VERIFY THE FINAL PAD ELEVATION BASED OFF OF THE SLAB AND STONE THICKNESS AS SHOWN ON THE BUILDING DRAWINGS. THE FINAL PAD ELEVATION IS TO BE CALCULATED AND CERTIFIED USING THE FINISH FLOOR SHOWN ON THE PLAN SET.
- 21. ALL MATERIALS OF THE POTABLE WATER SYSTEM SHALL CONFORM TO THE NATIONAL SANITATION FOUNDATION STANDARD 60 & 61.

*SOILS REPORT PREPARED BY SPEEDIE AND ASSOCIATES ON AUGUST 23TH, 2006

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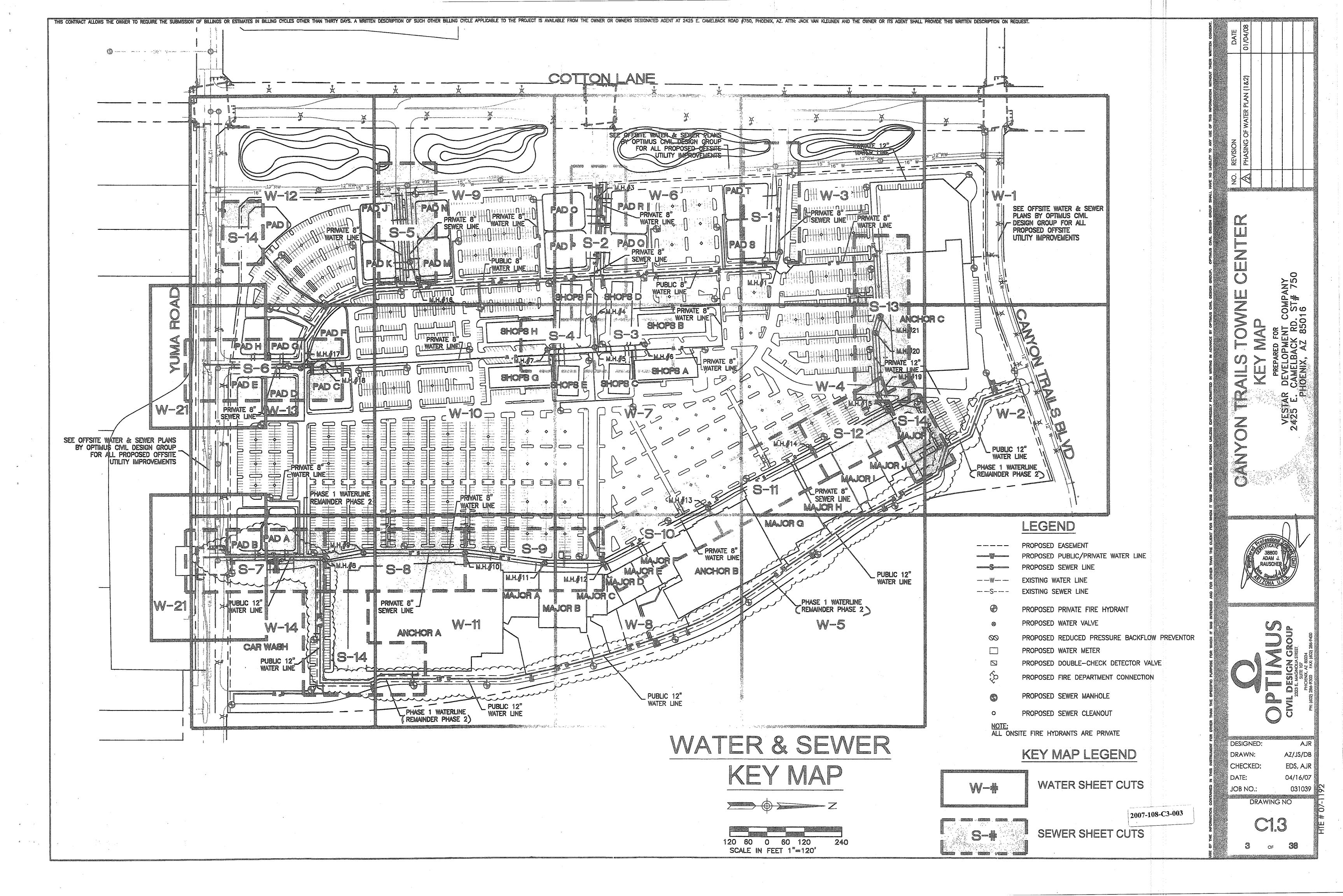
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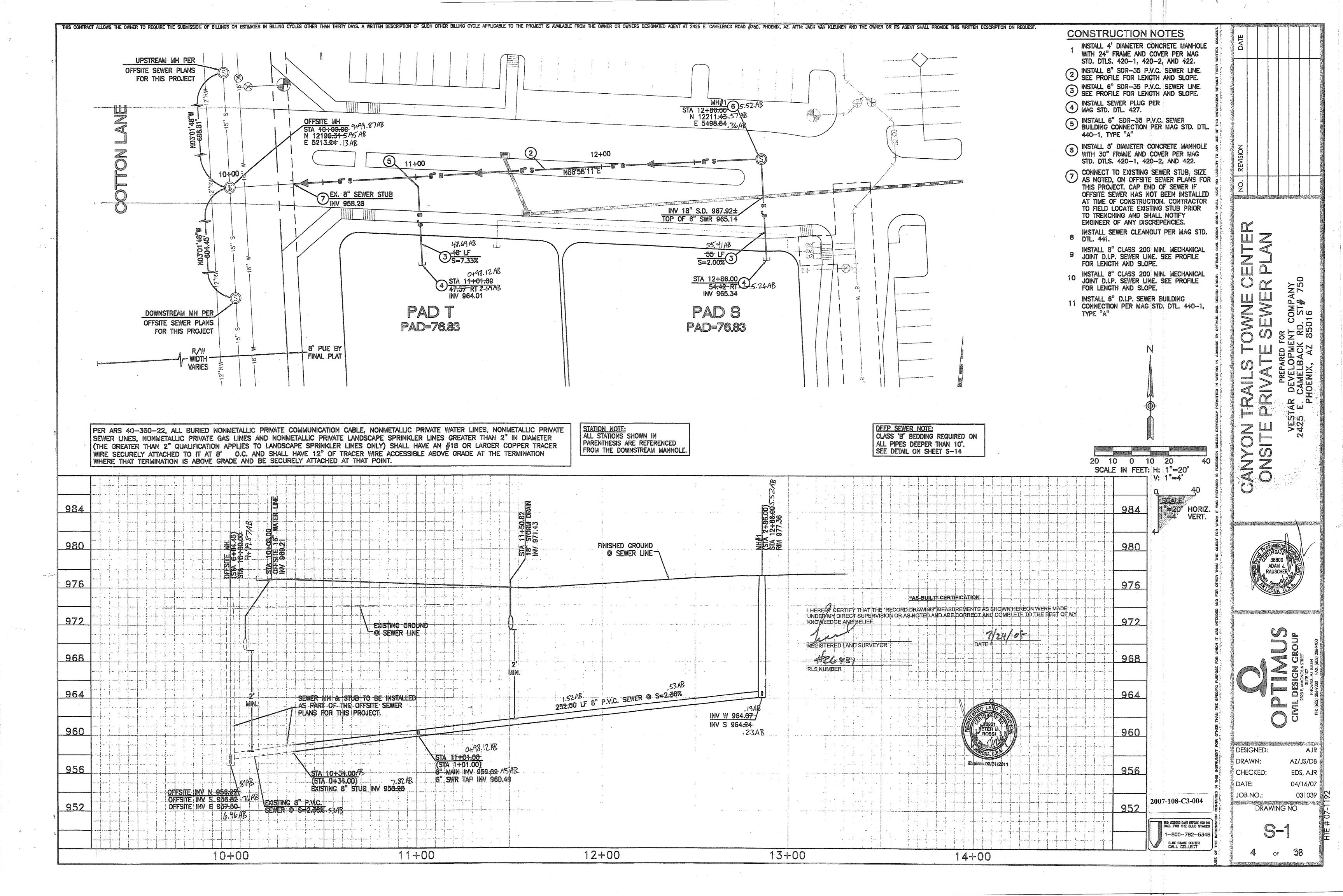
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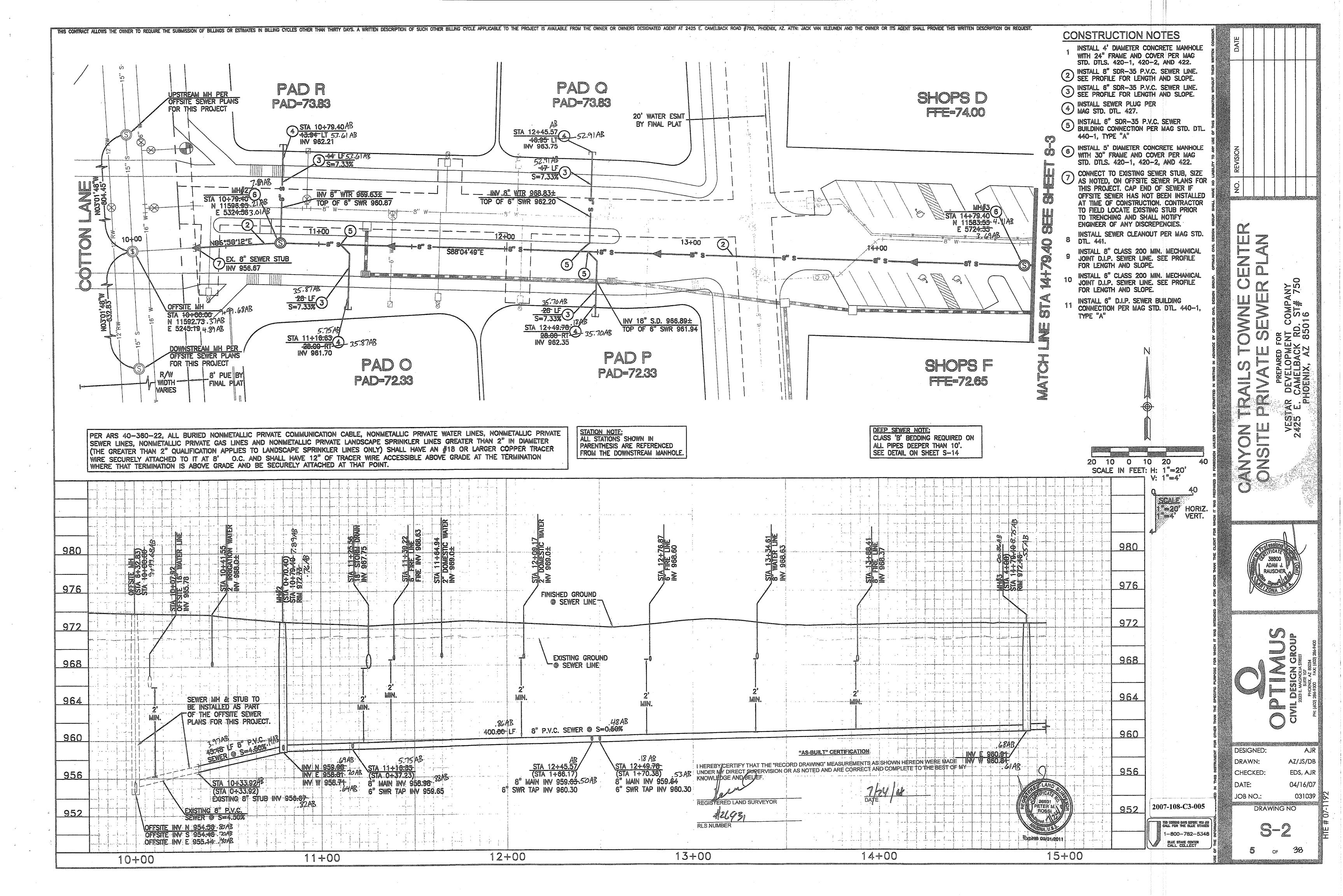
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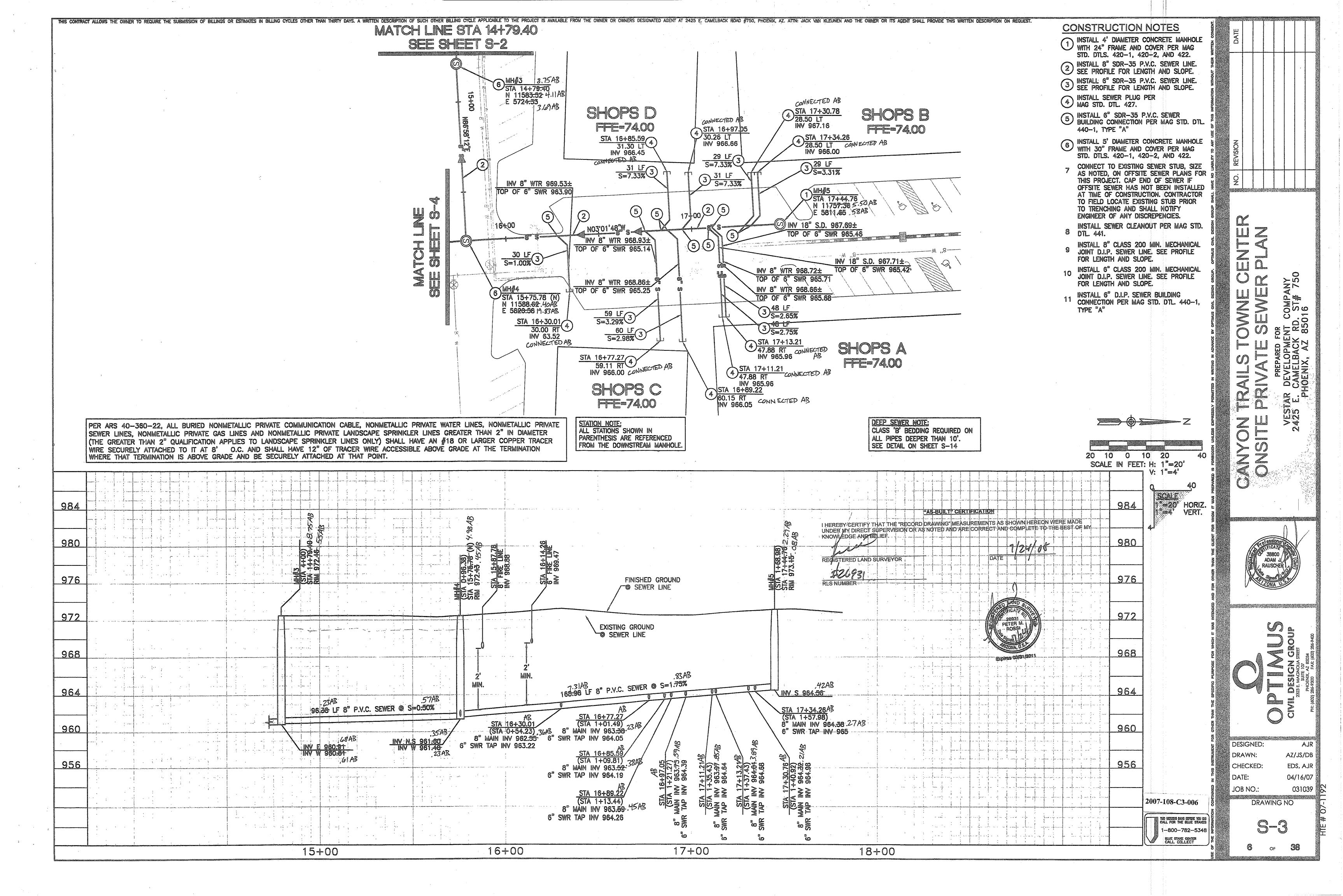
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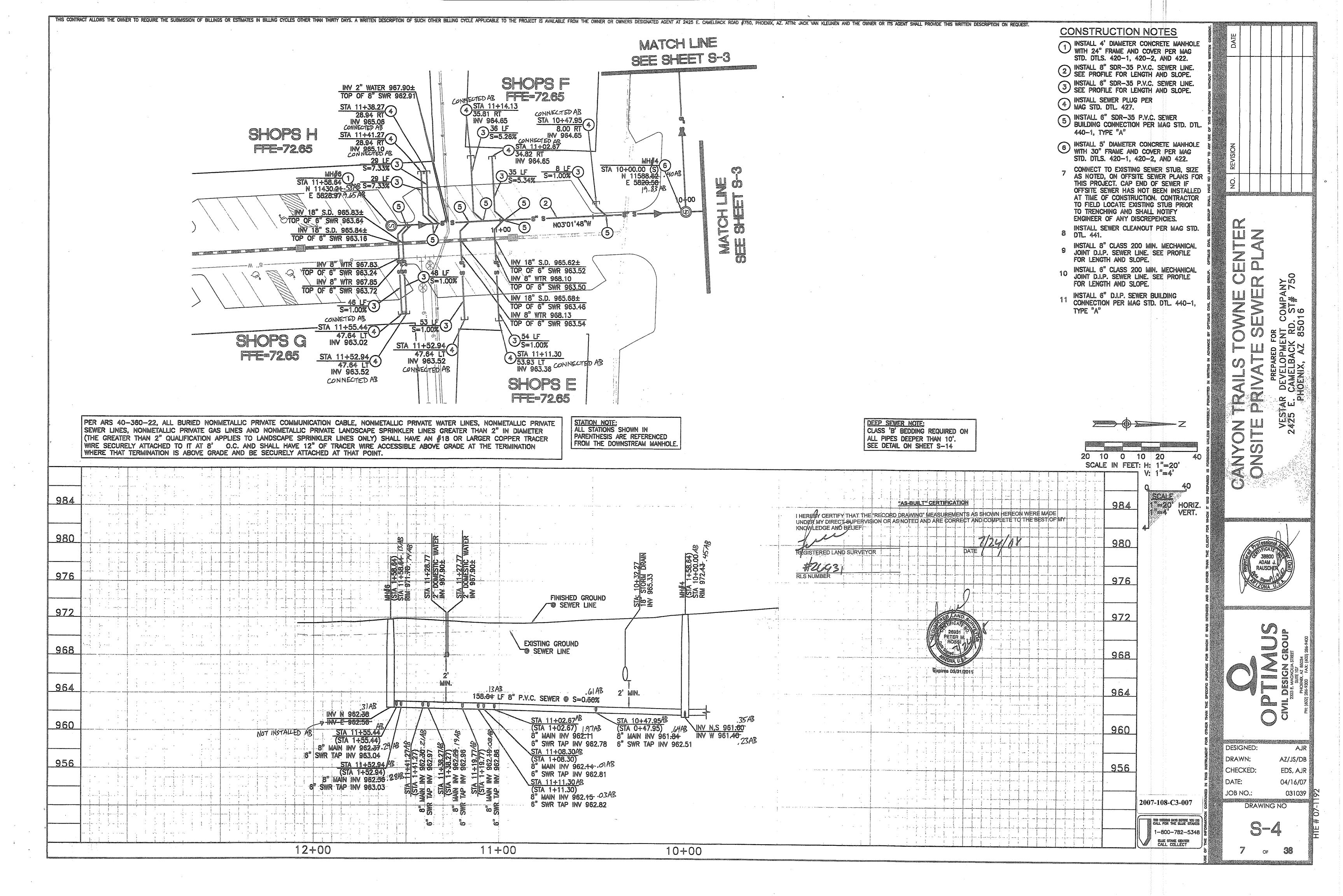
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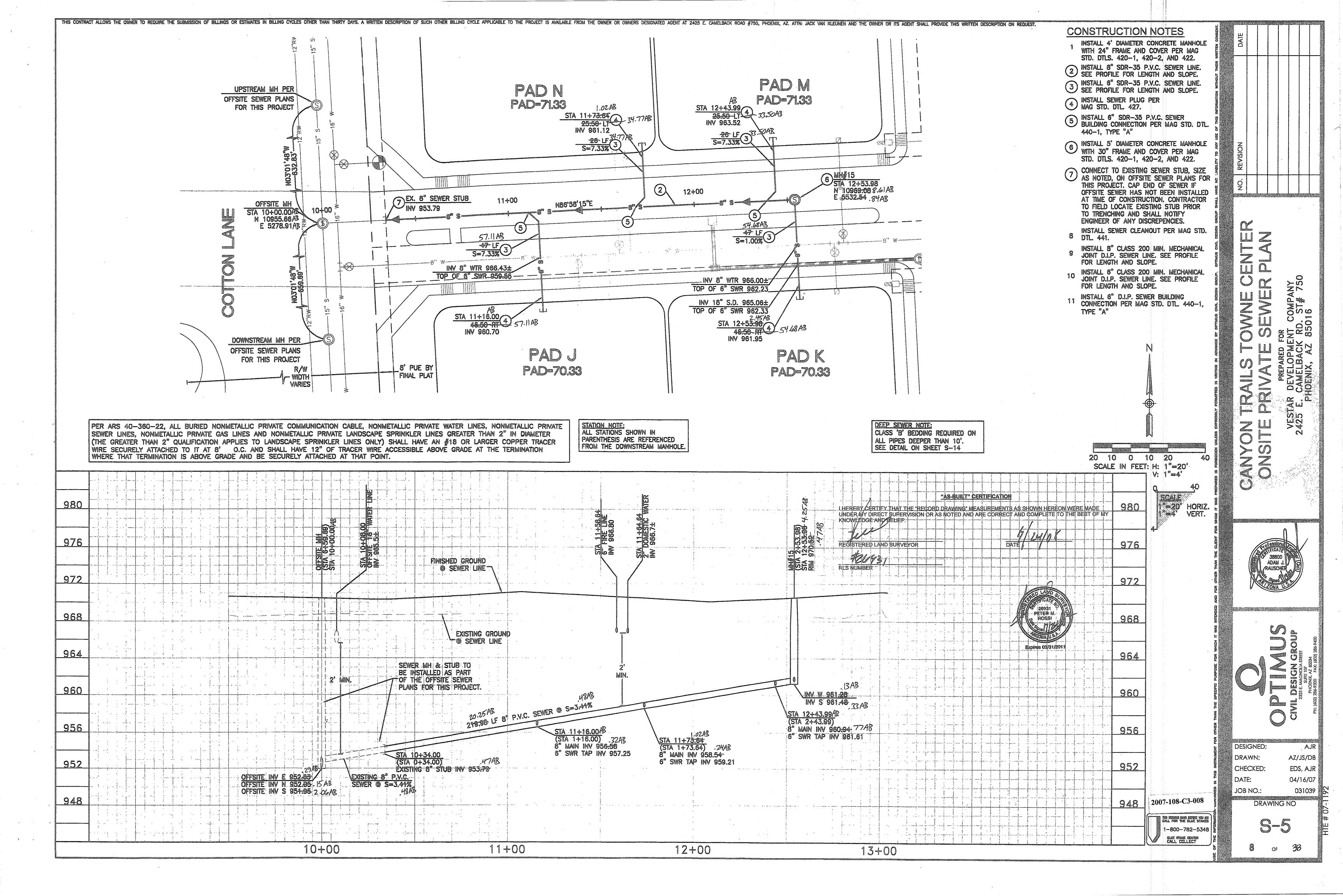


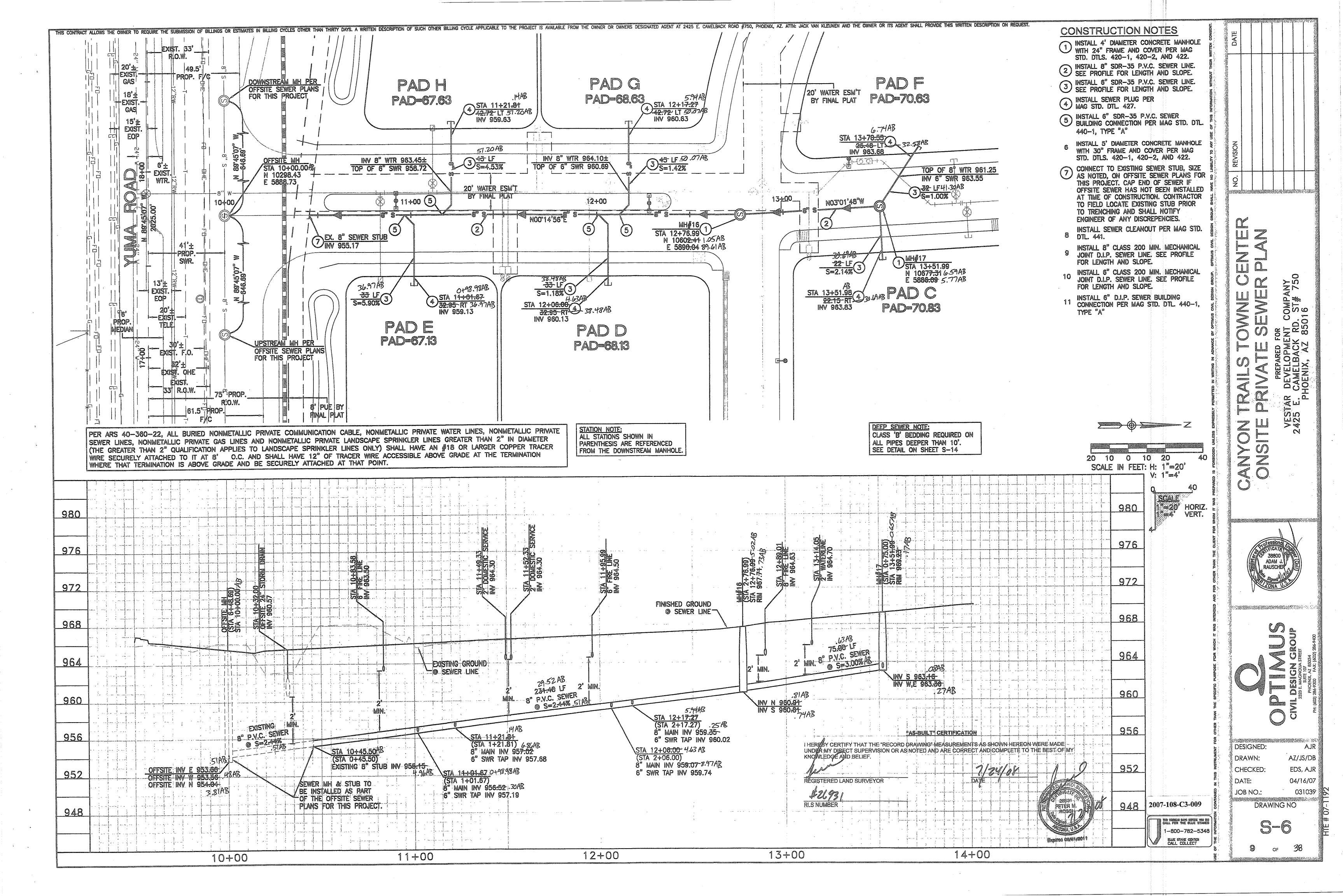


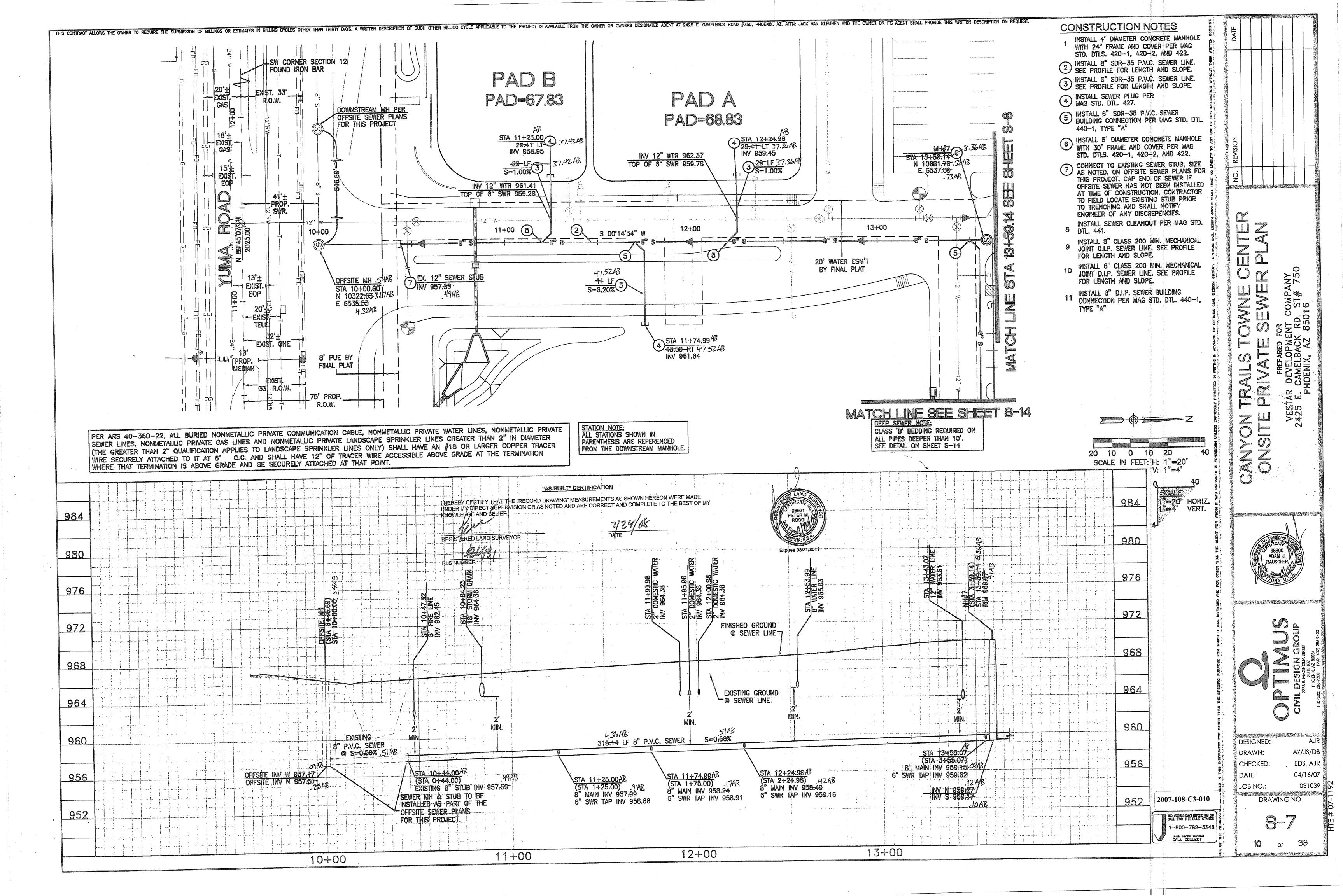


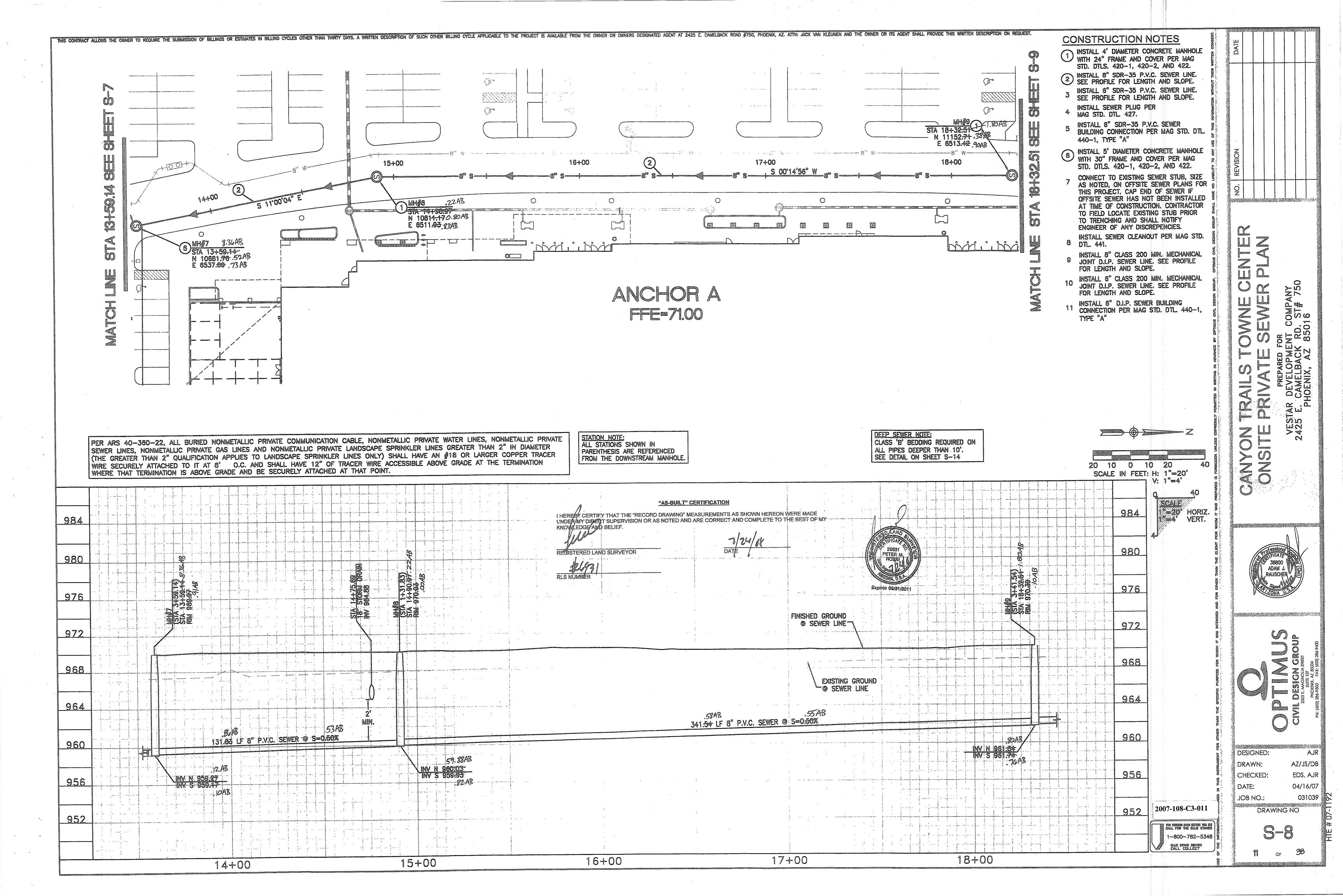


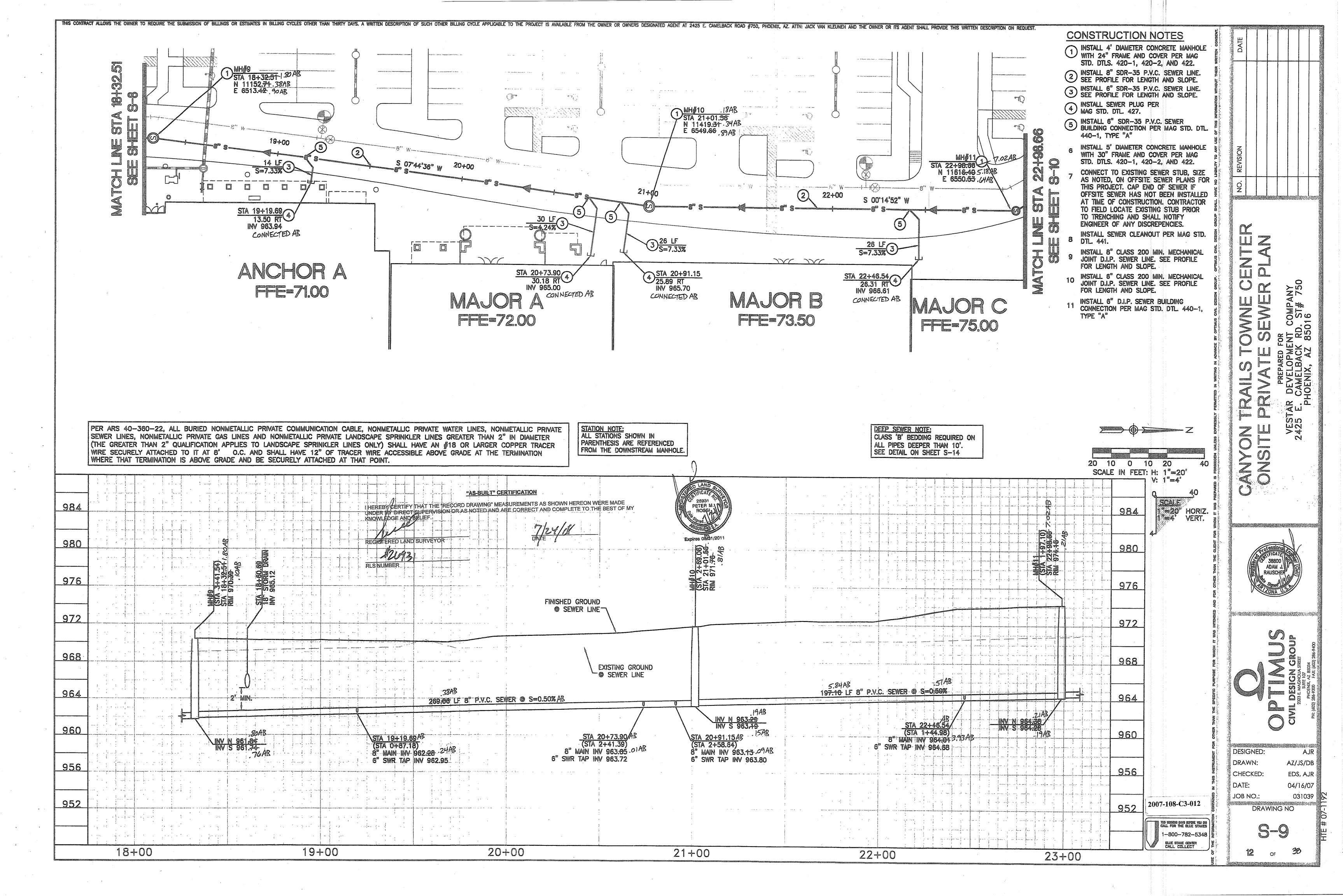


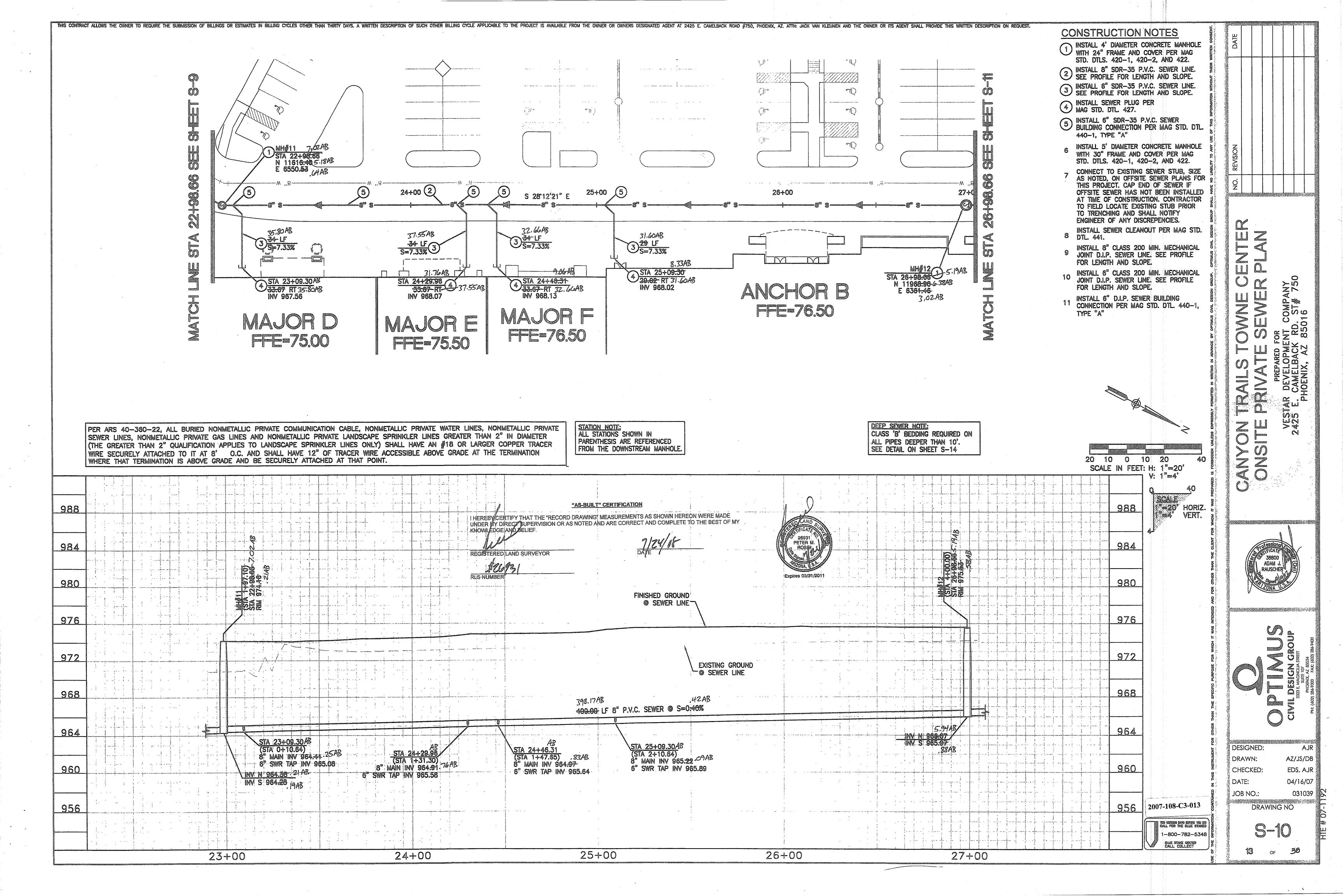


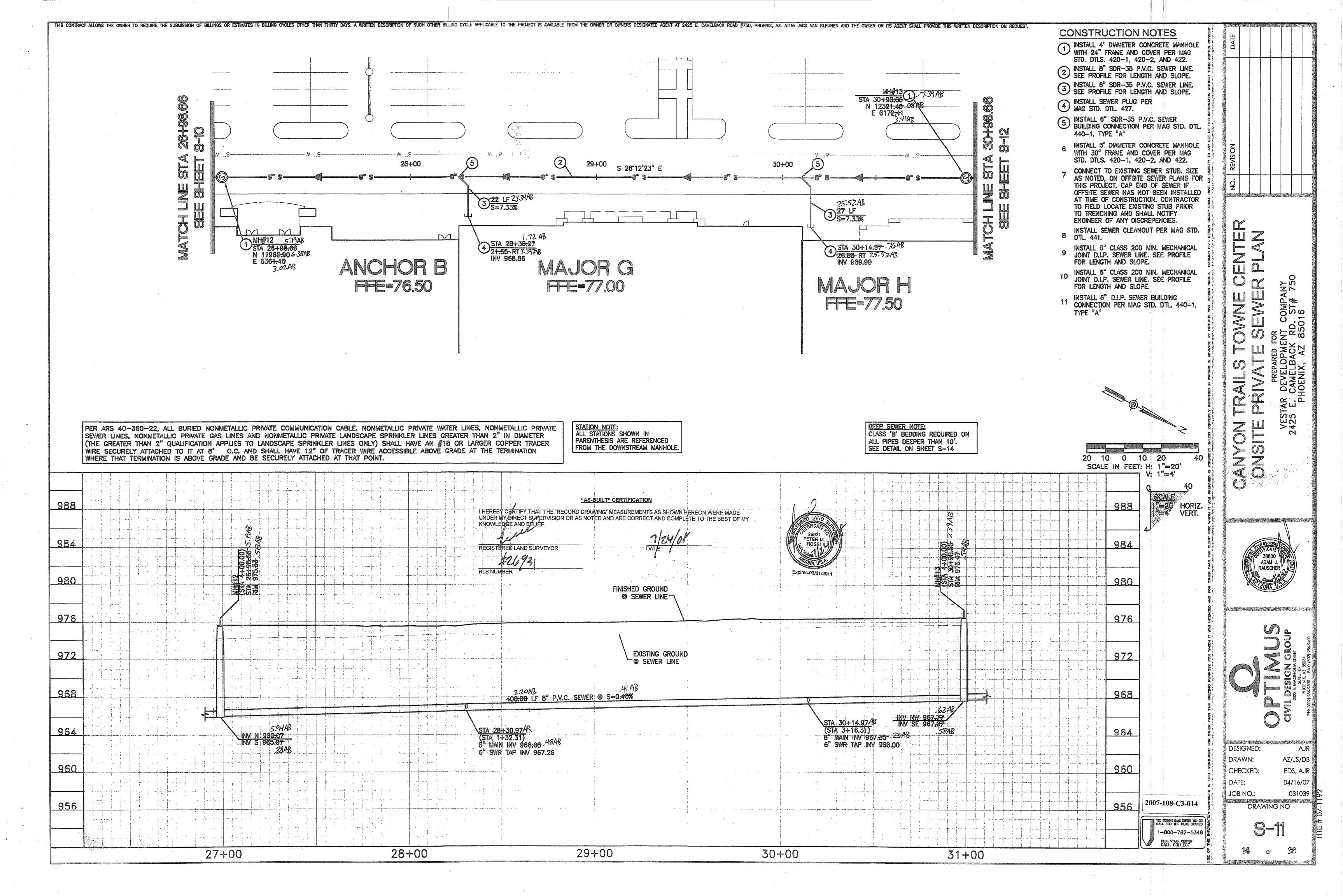


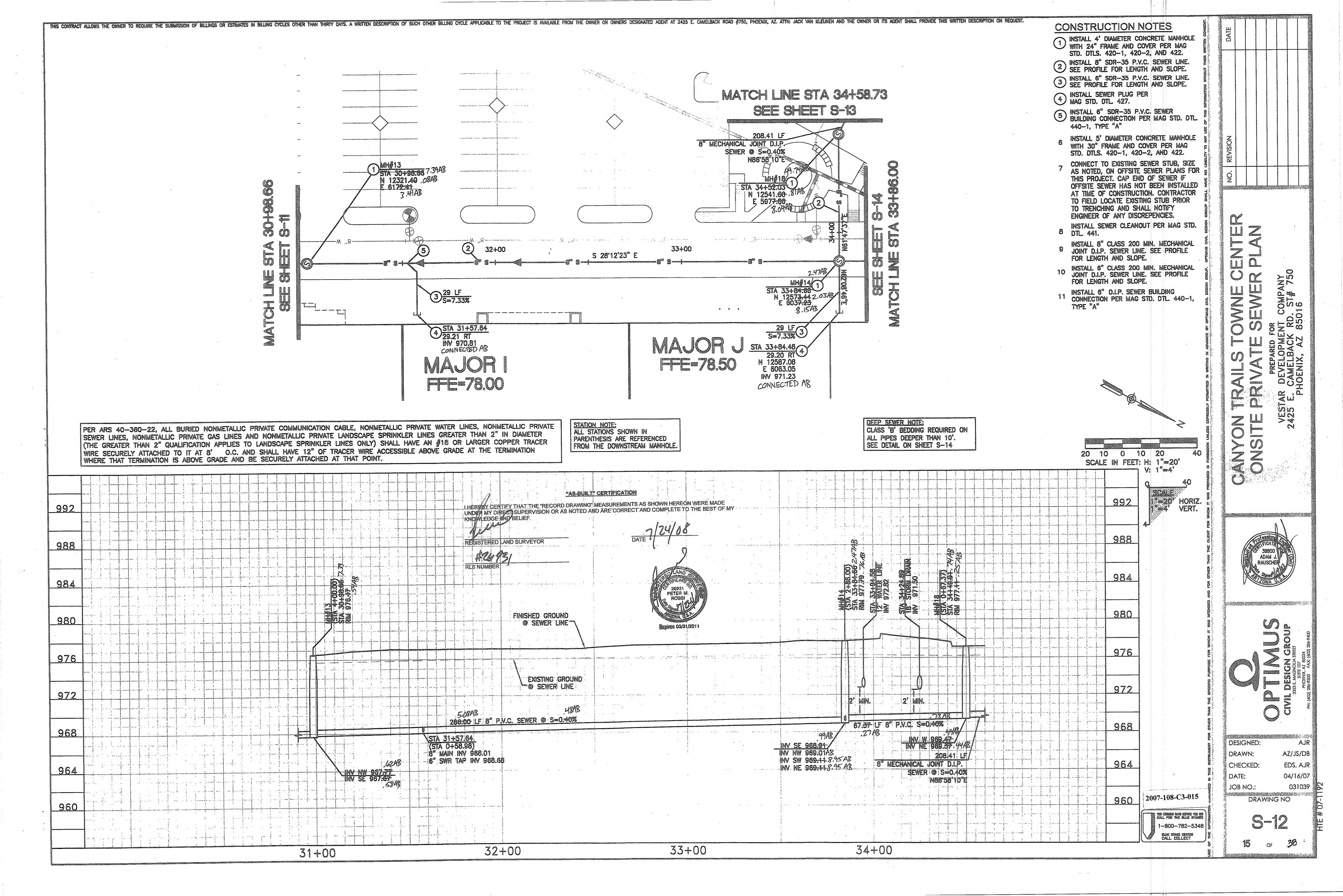


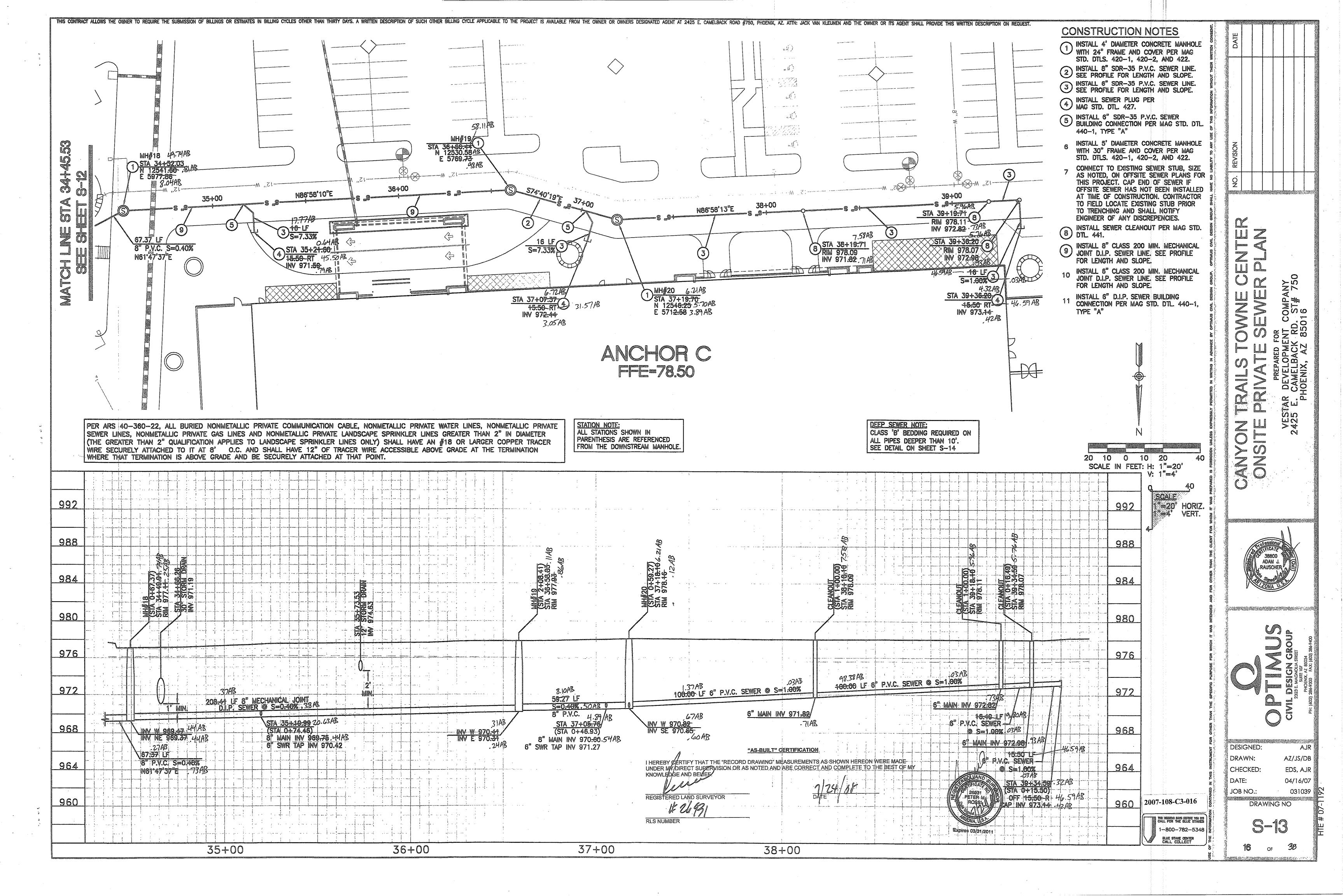


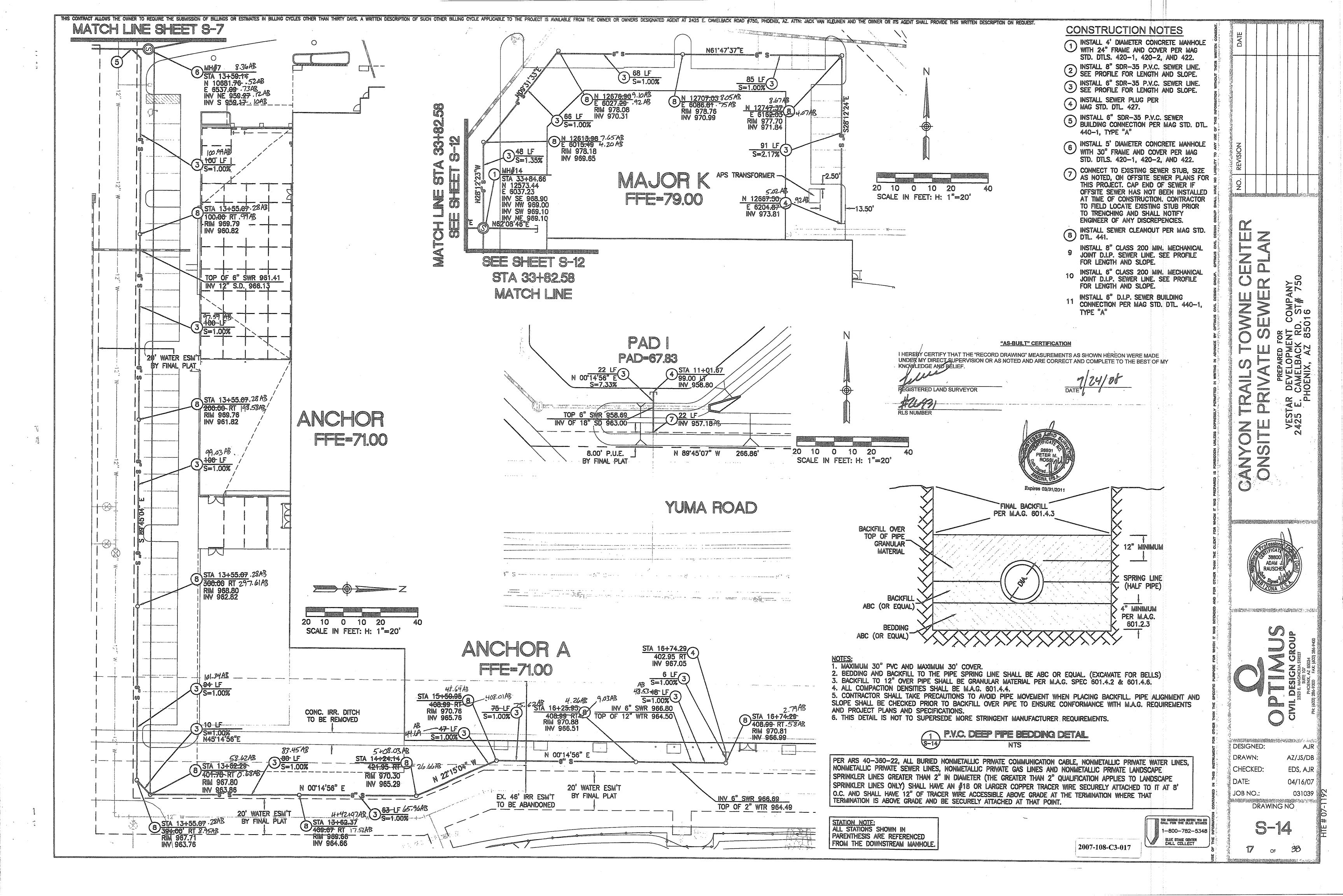


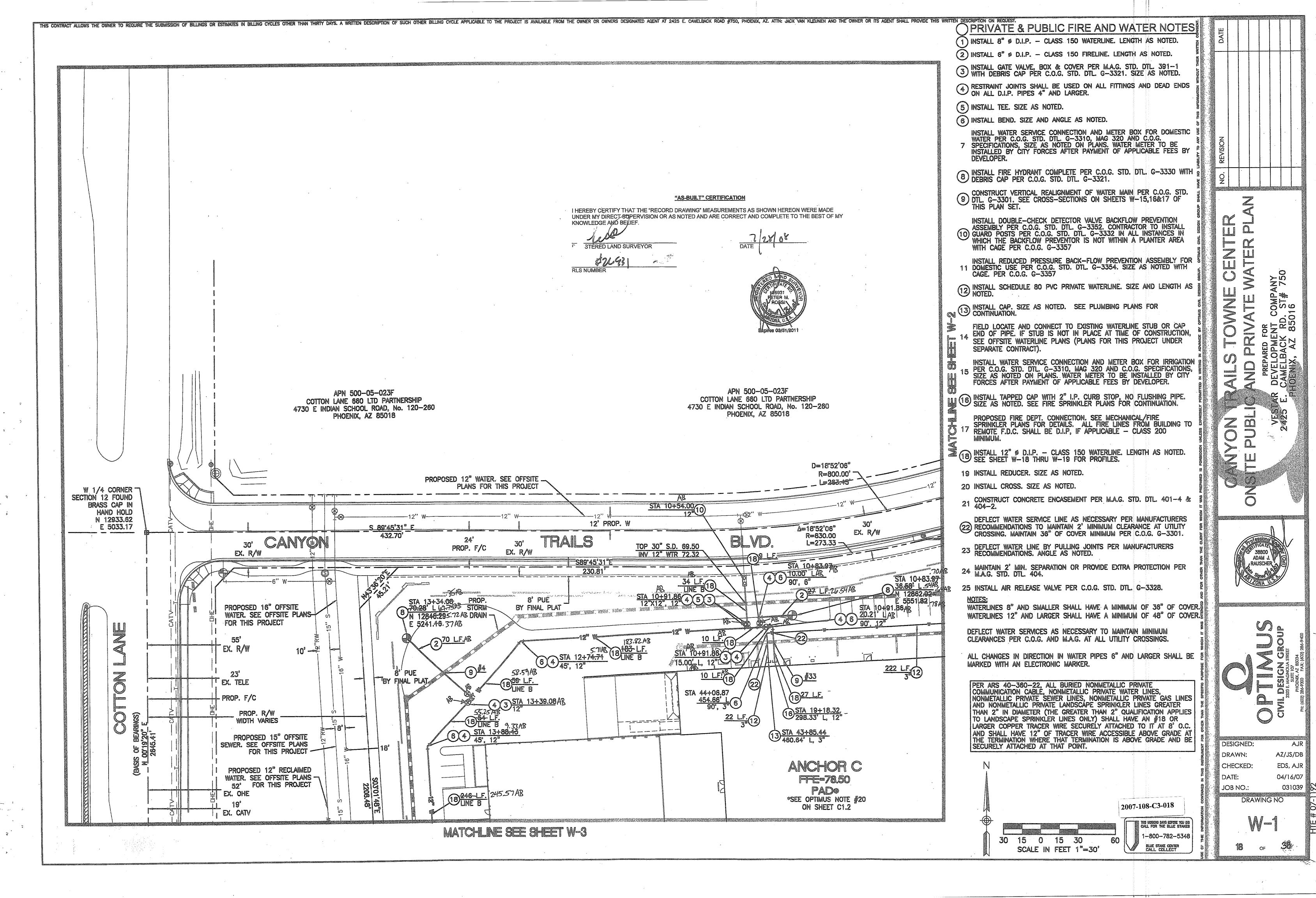


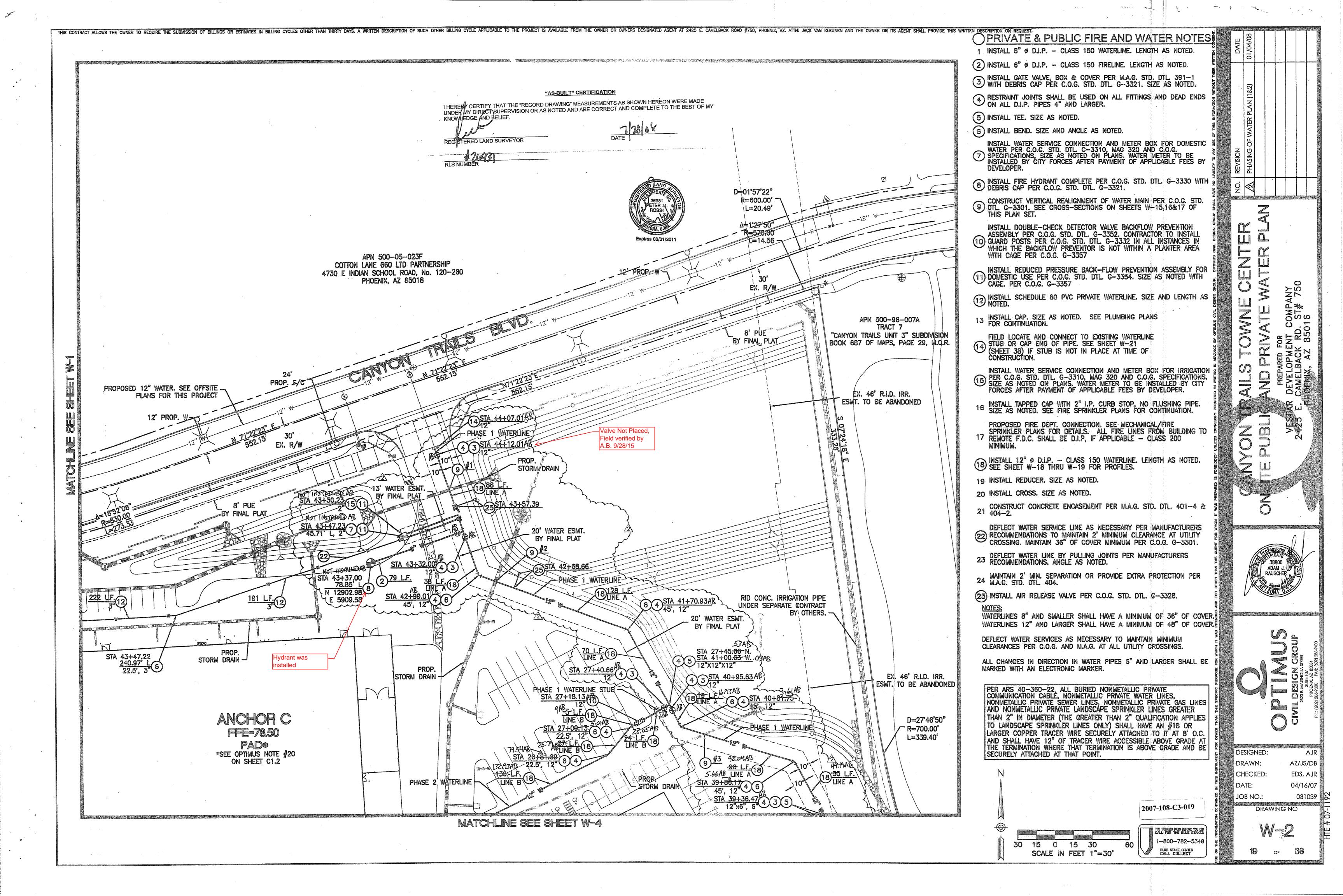


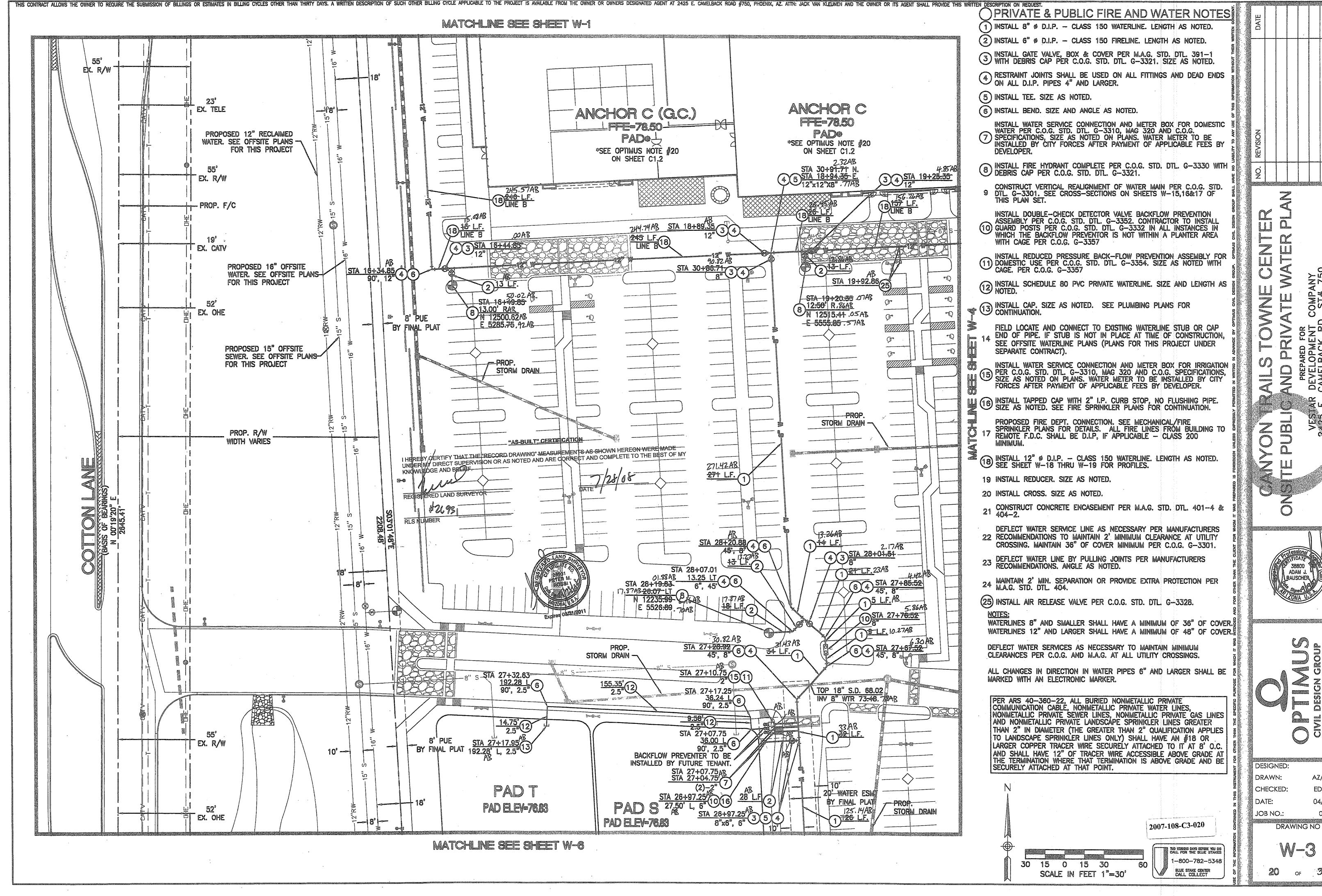




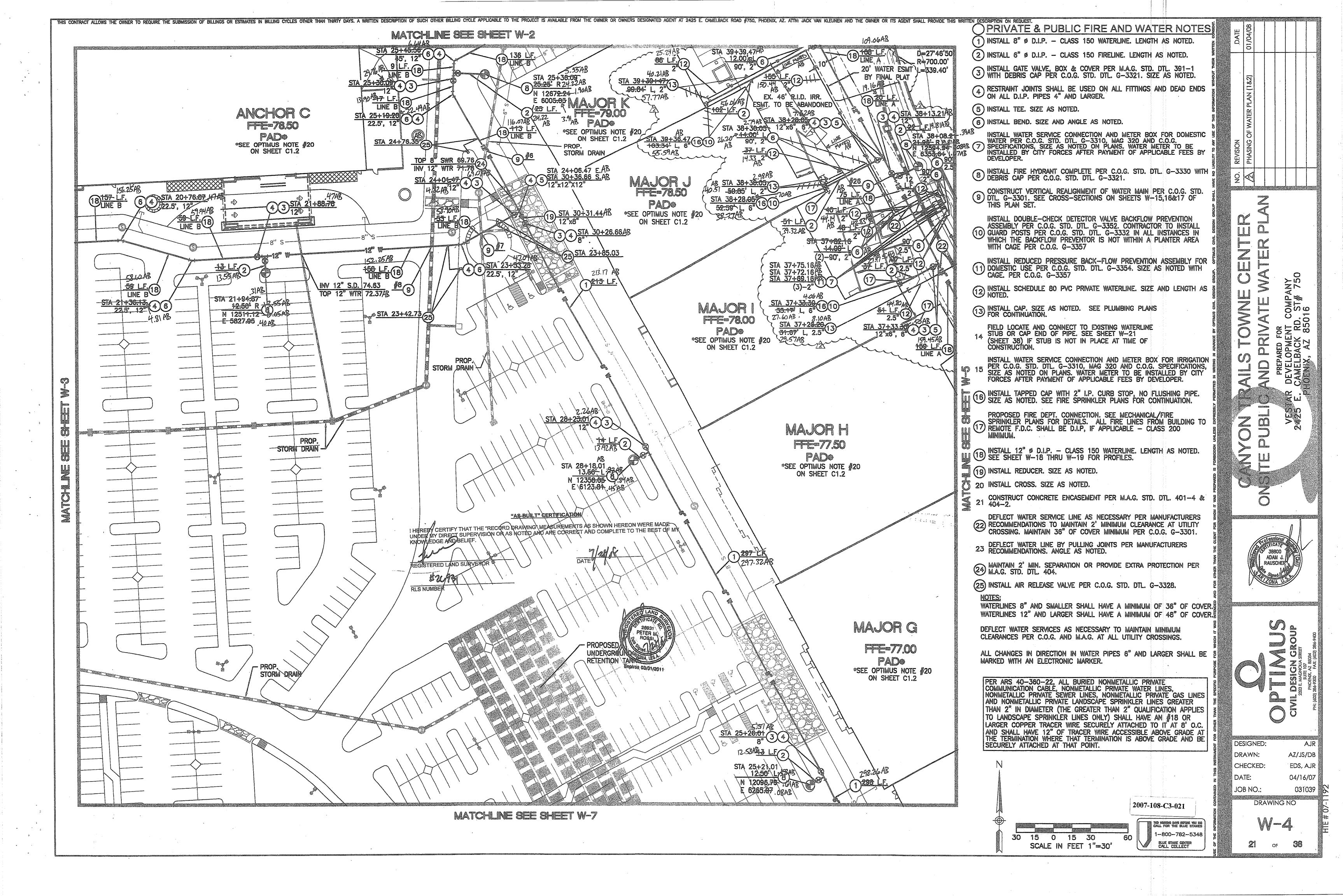


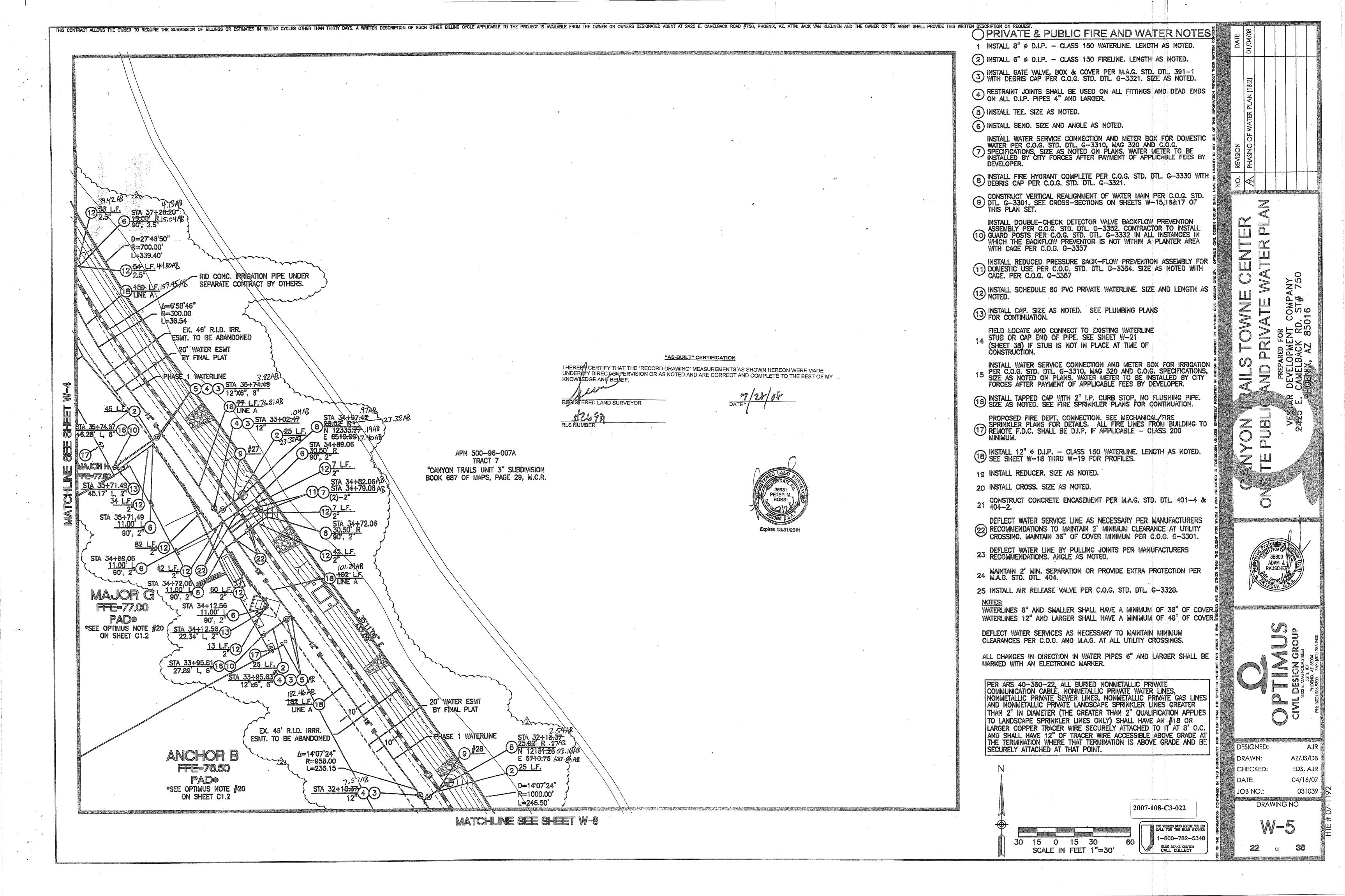


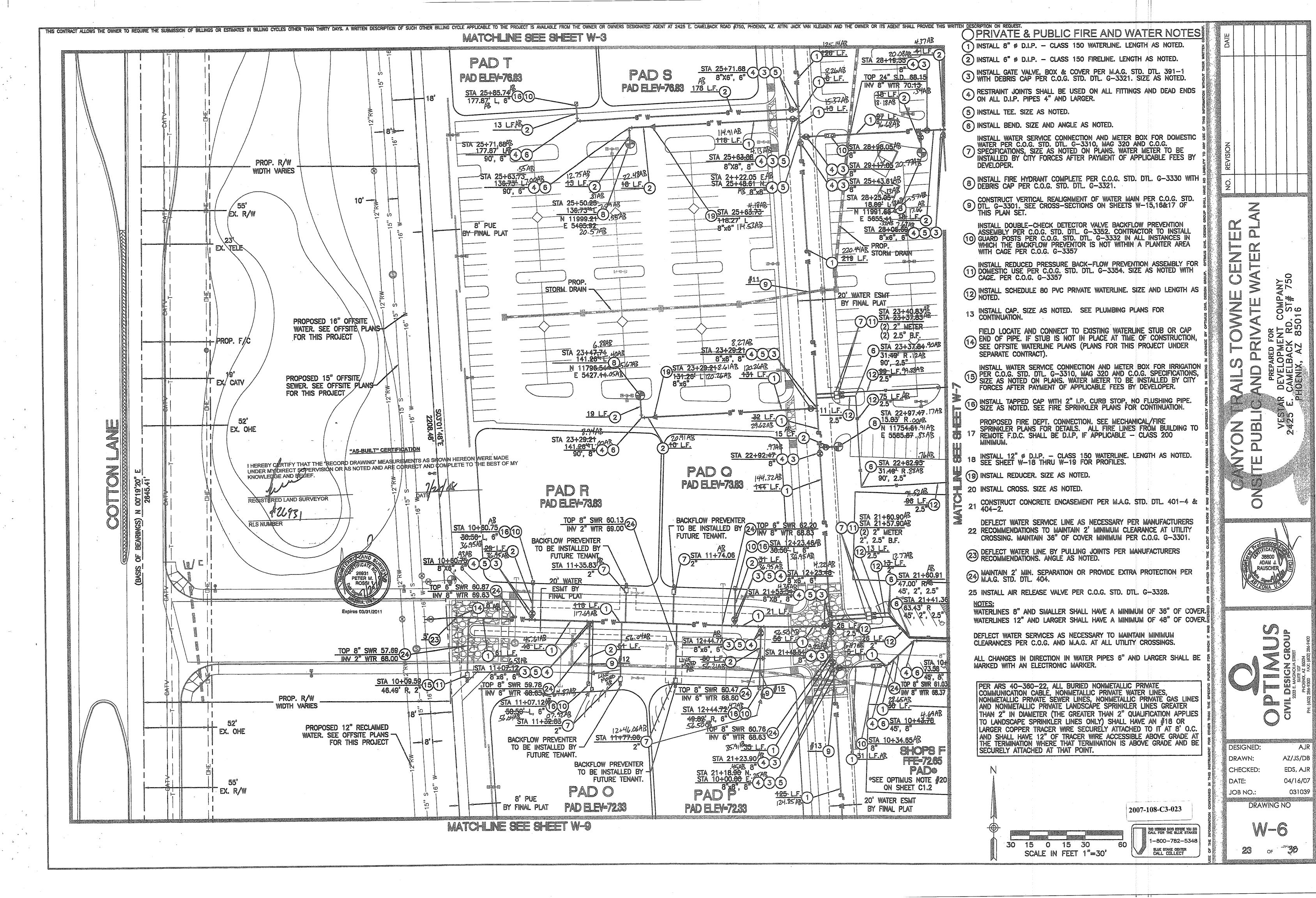


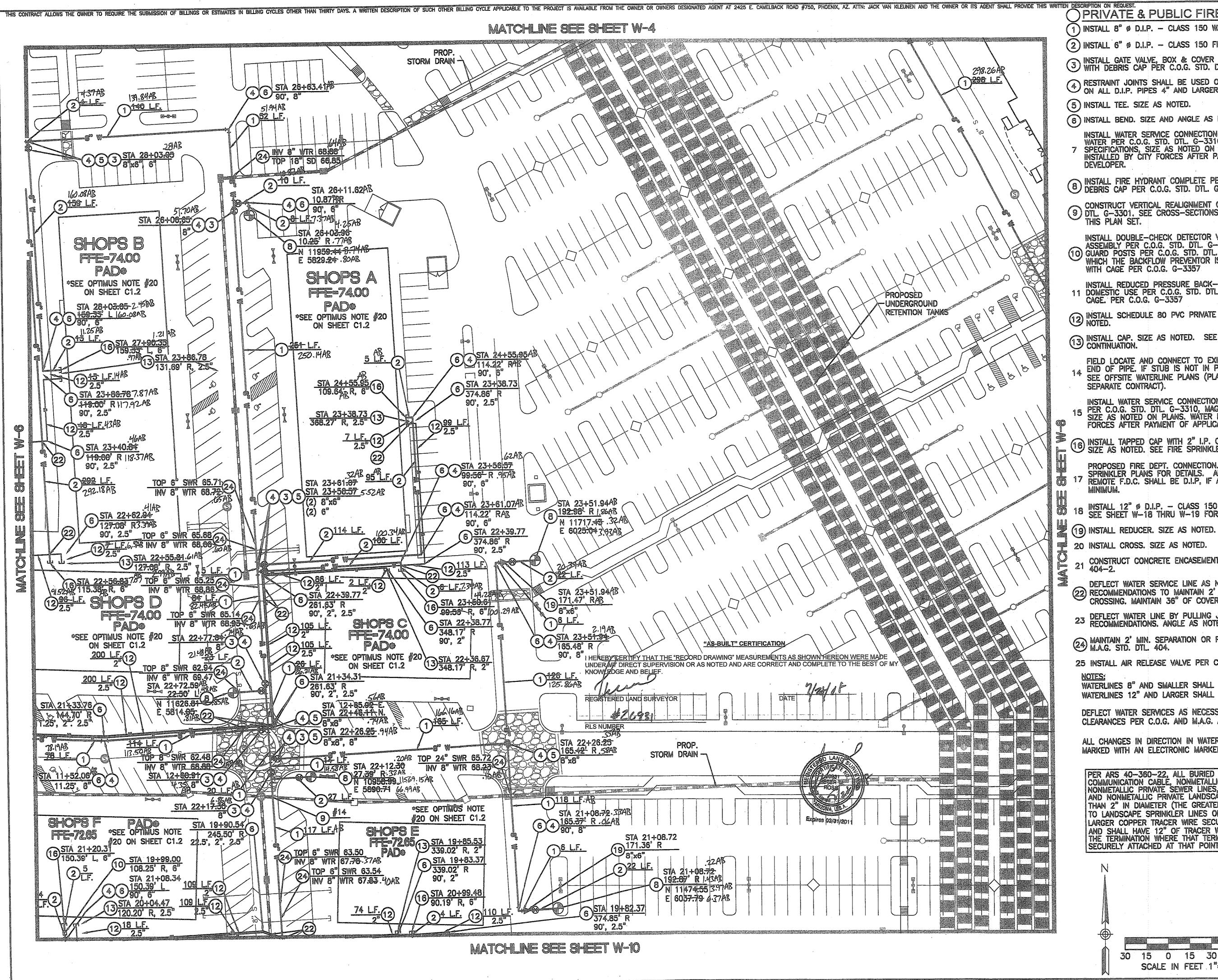


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PRIVATE & PUBLIC FIRE AND WATER NOTES

1) INSTALL 8" Ø D.I.P. - CLASS 150 WATERLINE. LENGTH AS NOTED.

(2) INSTALL 6" Ø D.I.P. - CLASS 150 FIRELINE. LENGTH AS NOTED.

INSTALL GATE VALVE, BOX & COVER PER M.A.G. STD. DTL. 391-1 WITH DEBRIS CAP PER C.O.G. STD. DTL. G-3321. SIZE AS NOTED.

RESTRAINT JOINTS SHALL BE USED ON ALL FITTINGS AND DEAD ENDS ON ALL D.I.P. PIPES 4" AND LARGER.

(5) INSTALL TEE. SIZE AS NOTED.

(6) INSTALL BEND. SIZE AND ANGLE AS NOTED.

INSTALL WATER SERVICE CONNECTION AND METER BOX FOR DOMESTIC WATER PER C.O.G. STD. DTL. G-3310, MAG 320 AND C.O.G.

SPECIFICATIONS, SIZE AS NOTED ON PLANS. WATER METER TO BE INSTALLED BY CITY FORCES AFTER PAYMENT OF APPLICABLE FEES BY

8 INSTALL FIRE HYDRANT COMPLETE PER C.O.G. STD. DTL. G-3330 WITH DEBRIS CAP PER C.O.G. STD. DTL. G-3321.

ONSTRUCT VERTICAL REALIGNMENT OF WATER MAIN PER C.O.G. STD. DTL. G-3301. SEE CROSS-SECTIONS ON SHEETS W-15,16&17 OF THIS PLAN SET.

INSTALL DOUBLE-CHECK DETECTOR VALVE BACKFLOW PREVENTION ASSEMBLY PER C.O.G. STD. DTL. G-3352. CONTRACTOR TO INSTALL QUARD POSTS PER C.O.G. STD. DTL. G-3332 IN ALL INSTANCES IN WHICH THE BACKFLOW PREVENTOR IS NOT WITHIN A PLANTER AREA WITH CAGE PER C.O.G. G-3357

INSTALL REDUCED PRESSURE BACK-FLOW PREVENTION ASSEMBLY FOR 11 DOMESTIC USE PER C.O.G. STD. DTL. G-3354. SIZE AS NOTED WITH CAGE. PER C.O.G. G-3357

12 INSTALL SCHEDULE 80 PVC PRIVATE WATERLINE. SIZE AND LENGTH AS NOTED.

13 INSTALL CAP. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.

FIELD LOCATE AND CONNECT TO EXISTING WATERLINE STUB OR CAPEND OF PIPE. IF STUB IS NOT IN PLACE AT TIME OF CONSTRUCTION, SEE OFFSITE WATERLINE PLANS (PLANS FOR THIS PROJECT UNDER SEPARATE CONTRACT).

INSTALL WATER SERVICE CONNECTION AND METER BOX FOR IRRIGATION PER C.O.G. STD. DTL. G-3310, MAG 320 AND C.O.G. SPECIFICATIONS, SIZE AS NOTED ON PLANS. WATER METER TO BE INSTALLED BY CITY FORCES AFTER PAYMENT OF APPLICABLE FEES BY DEVELOPER.

16 INSTALL TAPPED CAP WITH 2" I.P. CURB STOP, NO FLUSHING PIPE. SIZE AS NOTED. SEE FIRE SPRINKLER PLANS FOR CONTINUATION.

PROPOSED FIRE DEPT. CONNECTION. SEE MECHANICAL/FIRE SPRINKLER PLANS FOR DETAILS. ALL FIRE LINES FROM BUILDING TO REMOTE F.D.C. SHALL BE D.I.P., IF APPLICABLE - CLASS 200

18 INSTALL 12" Ø D.I.P. - CLASS 150 WATERLINE. LENGTH AS NOTED. SEE SHEET W-18 THRU W-19 FOR PROFILES.

20 INSTALL CROSS. SIZE AS NOTED.

CONSTRUCT CONCRETE ENCASEMENT PER M.A.G. STD. DTL. 401-4 &

DEFLECT WATER SERVICE LINE AS NECESSARY PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN 2' MINIMUM CLEARANCE AT UTILITY CROSSING, MAINTAIN 36" OF COVER MINIMUM PER C.O.G. G-3301.

23 DEFLECT WATER LINE BY PULLING JOINTS PER MANUFACTURERS RECOMMENDATIONS. ANGLE AS NOTED.

MAINTAIN 2' MIN. SEPARATION OR PROVIDE EXTRA PROTECTION PER M.A.G. STD. DTL. 404.

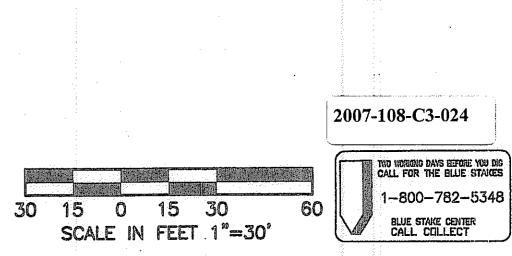
25 INSTALL AIR RELEASE VALVE PER C.O.G. STD. DTL. G-3328.

WATERLINES 8" AND SMALLER SHALL HAVE A MINIMUM OF 36" OF COVER. WATERLINES 12" AND LARGER SHALL HAVE A MINIMUM OF 48" OF COVER.

DEFLECT WATER SERVICES AS NECESSARY TO MAINTAIN MINIMUM CLEARANCES PER C.O.G. AND M.A.G. AT ALL UTILITY CROSSINGS.

ALL CHANGES IN DIRECTION IN WATER PIPES 6" AND LARGER SHALL BE MARKED WITH AN ELECTRONIC MARKER.

PER ARS 40-360-22, ALL BURIED NONMETALLIC PRIVATE COMMUNICATION CABLE, NONMETALLIC PRIVATE WATER LINES, NONMETALLIC PRIVATE GAS LINES AND NONMETALLIC PRIVATE LANDSCAPE SPRINKLER LINES GREATER THAN 2" IN DIAMETER (THE GREATER THAN 2" QUALIFICATION APPLIES TO LANDSCAPE SPRINKLER LINES ONLY) SHALL HAVE AN #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO IT AT 8' O.C. AND SHALL HAVE 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT THE TERMINATION WHERE THAT TERMINATION IS ABOVE GRADE AND BE SECURELY ATTACHED AT THAT POINT.

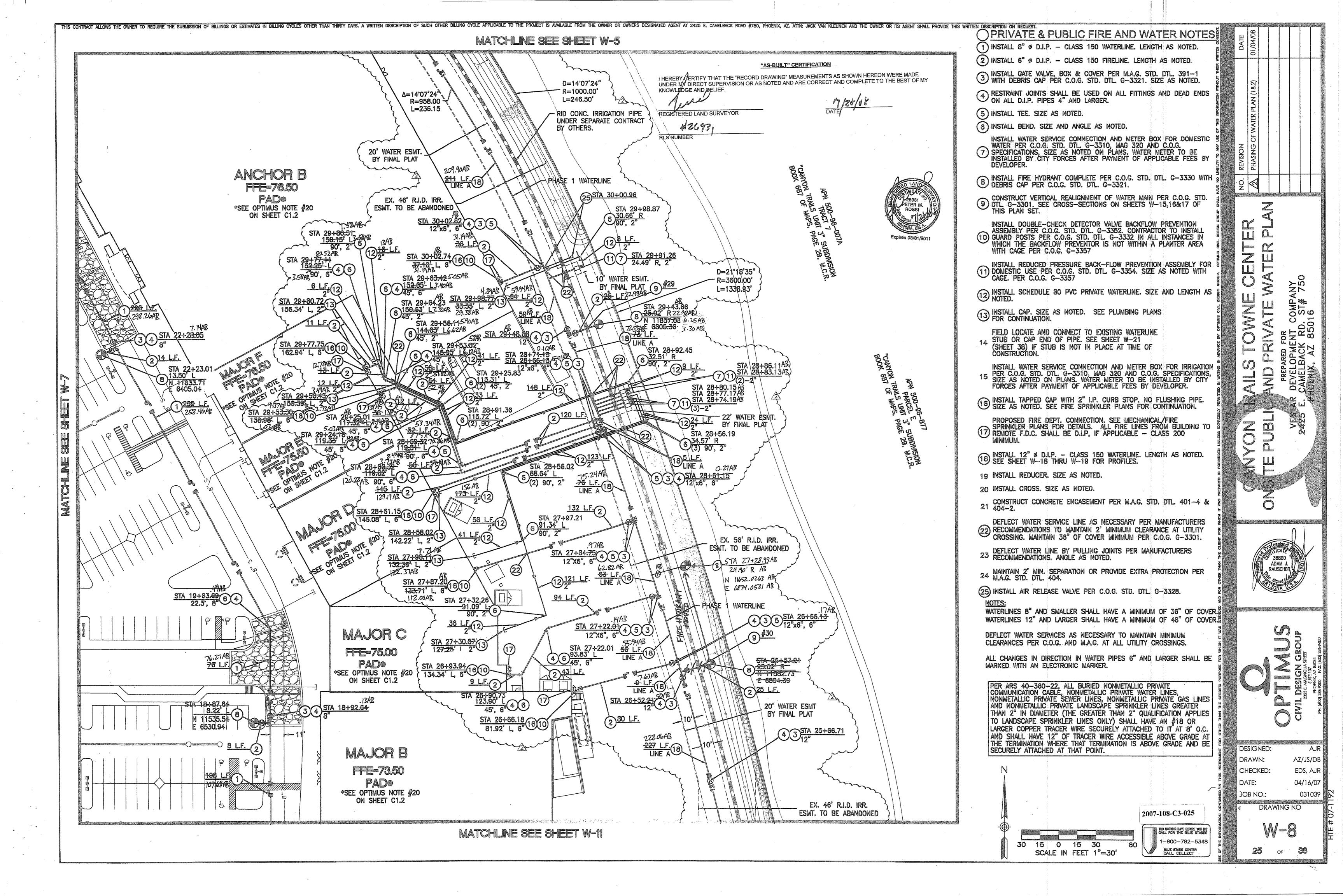


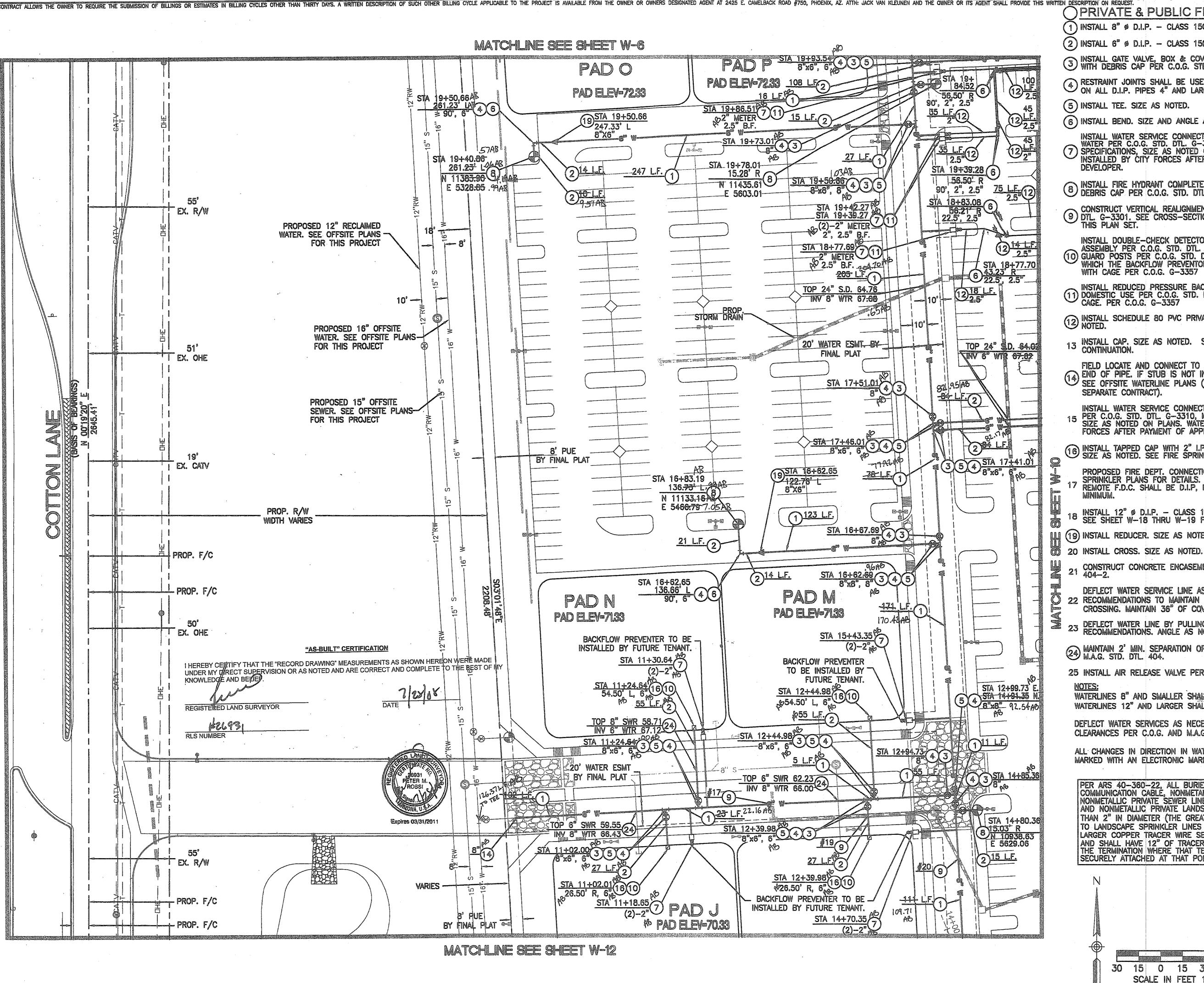
ADAM J. RAUSCHER

DESIGNED: AZ/JS/DB DRAWN: EDS, AJR CHECKED: 04/16/07 DATE: 031039 JOB NO.:

DRAWING NO

OF





PRIVATE & PUBLIC FIRE AND WATER NOTES

1) Install 8" ø d.i.p. – Class 150 Waterline. Length as noted.

(2) INSTALL 6" Ø D.I.P. - CLASS 150 FIRELINE. LENGTH AS NOTED.

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(5) INSTALL TEE. SIZE AS NOTED.

(6) INSTALL BEND. SIZE AND ANGLE AS NOTED.

INSTALL WATER SERVICE CONNECTION AND METER BOX FOR DOMESTIC WATER PER C.O.G. STD. DTL. G-3310, MAG 320 AND C.O.G.

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INSTALL REDUCED PRESSURE BACK-FLOW PREVENTION ASSEMBLY FOR DOMESTIC USE PER C.O.G. STD. DTL. G-3354. SIZE AS NOTED WITH CAGE. PER C.O.G. G-3357

INSTALL SCHEDULE 80 PVC PRIVATE WATERLINE. SIZE AND LENGTH AS

13 INSTALL CAP. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.

FIELD LOCATE AND CONNECT TO EXISTING WATERLINE STUB OR CAP END OF PIPE. IF STUB IS NOT IN PLACE AT TIME OF CONSTRUCTION SEE OFFSITE WATERLINE PLANS (PLANS FOR THIS PROJECT UNDER SEPARATE CONTRACT).

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INSTALL 12" Ø D.I.P. - CLASS 150 WATERLINE. LENGTH AS NOTED. SEE SHEET W-18 THRU W-19 FOR PROFILES.

III (19) INSTALL REDUCER. SIZE AS NOTED

CONSTRUCT CONCRETE ENCASEMENT PER M.A.G. STD. DTL. 401-4 &

DEFLECT WATER SERVICE LINE AS NECESSARY PER MANUFACTURERS 22 RECOMMENDATIONS TO MAINTAIN 2' MINIMUM CLEARANCE AT UTILITY CROSSING. MAINTAIN 36" OF COVER MINIMUM PER C.O.G. G-3301.

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MAINTAIN 2' MIN. SEPARATION OR PROVIDE EXTRA PROTECTION PER M.A.G. STD. DTL. 404.

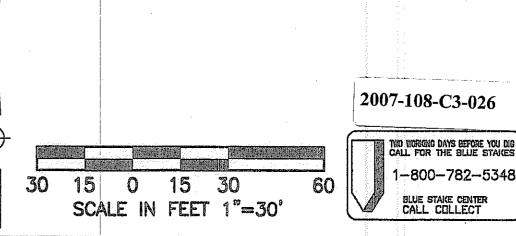
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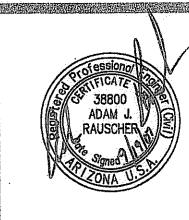
DEFLECT WATER SERVICES AS NECESSARY TO MAINTAIN MINIMUM CLEARANCES PER C.O.G. AND M.A.G. AT ALL UTILITY CROSSINGS.

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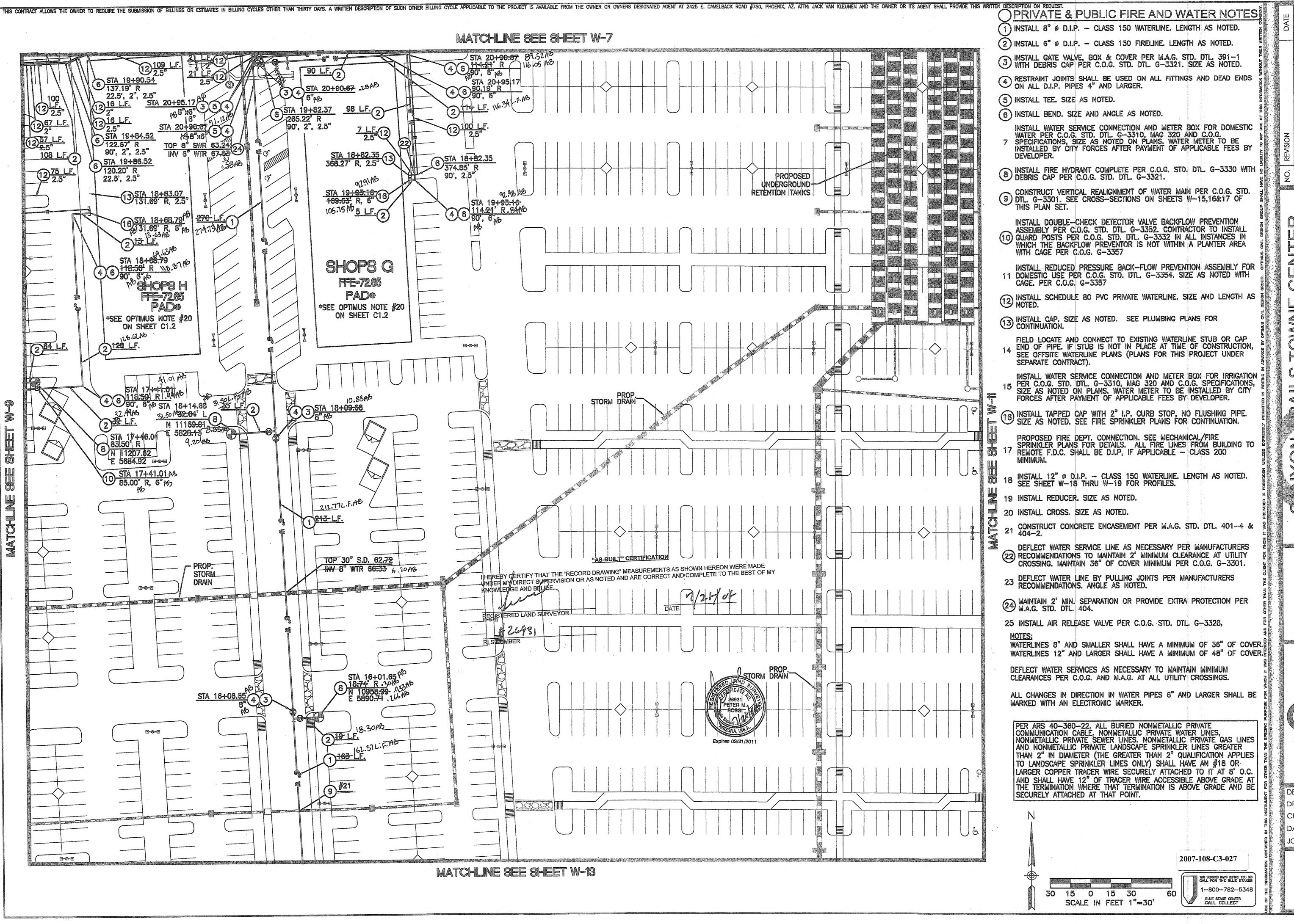
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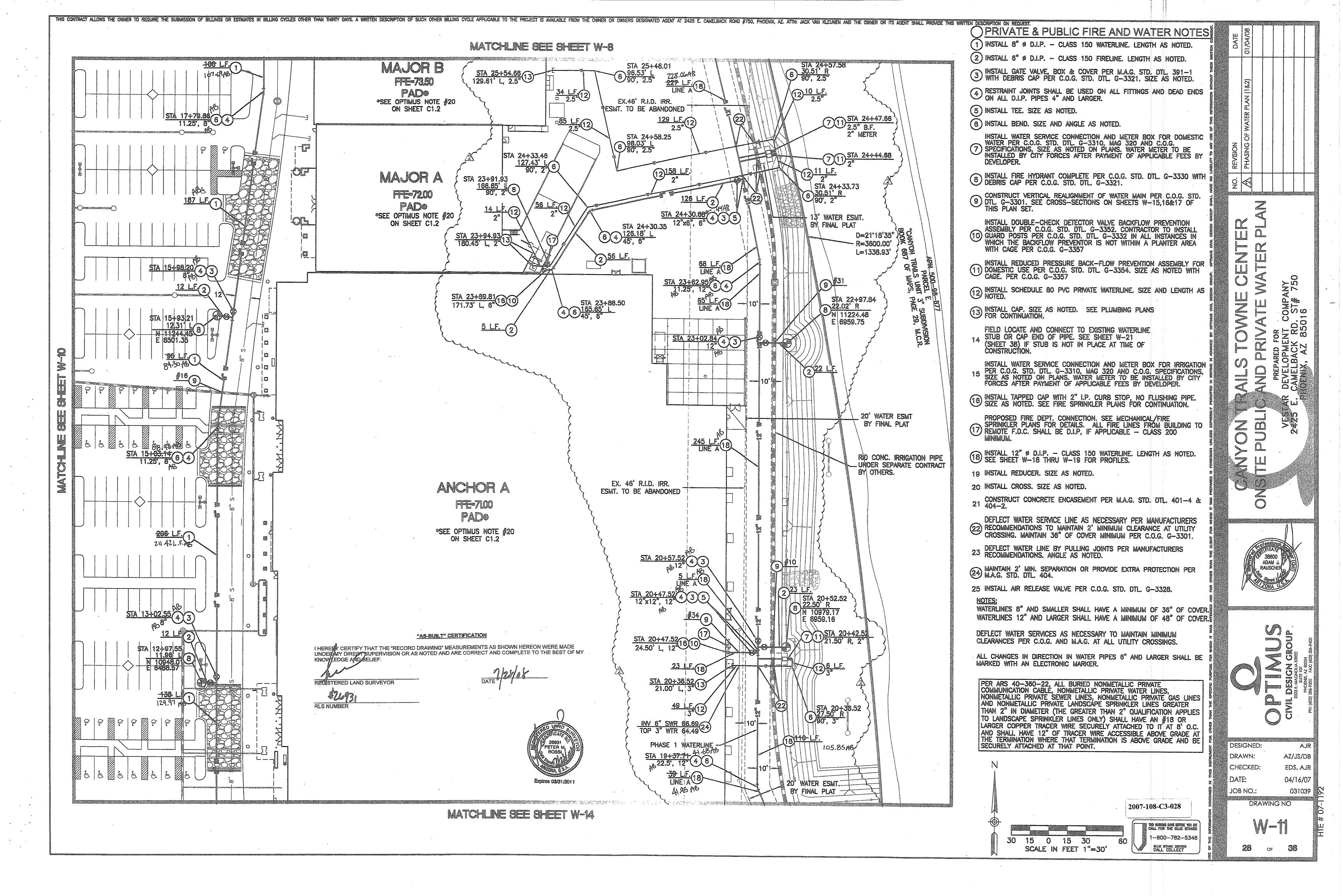
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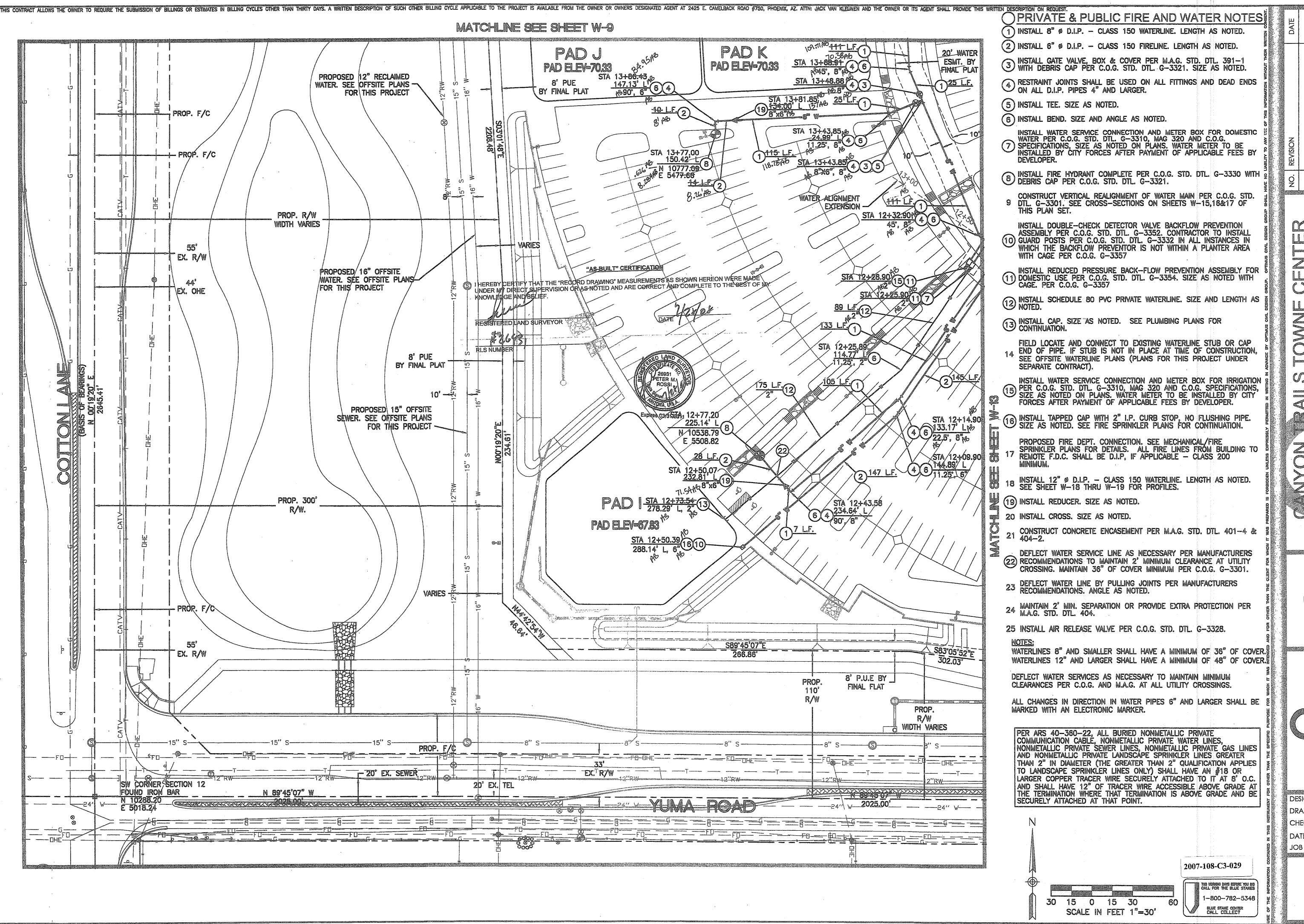
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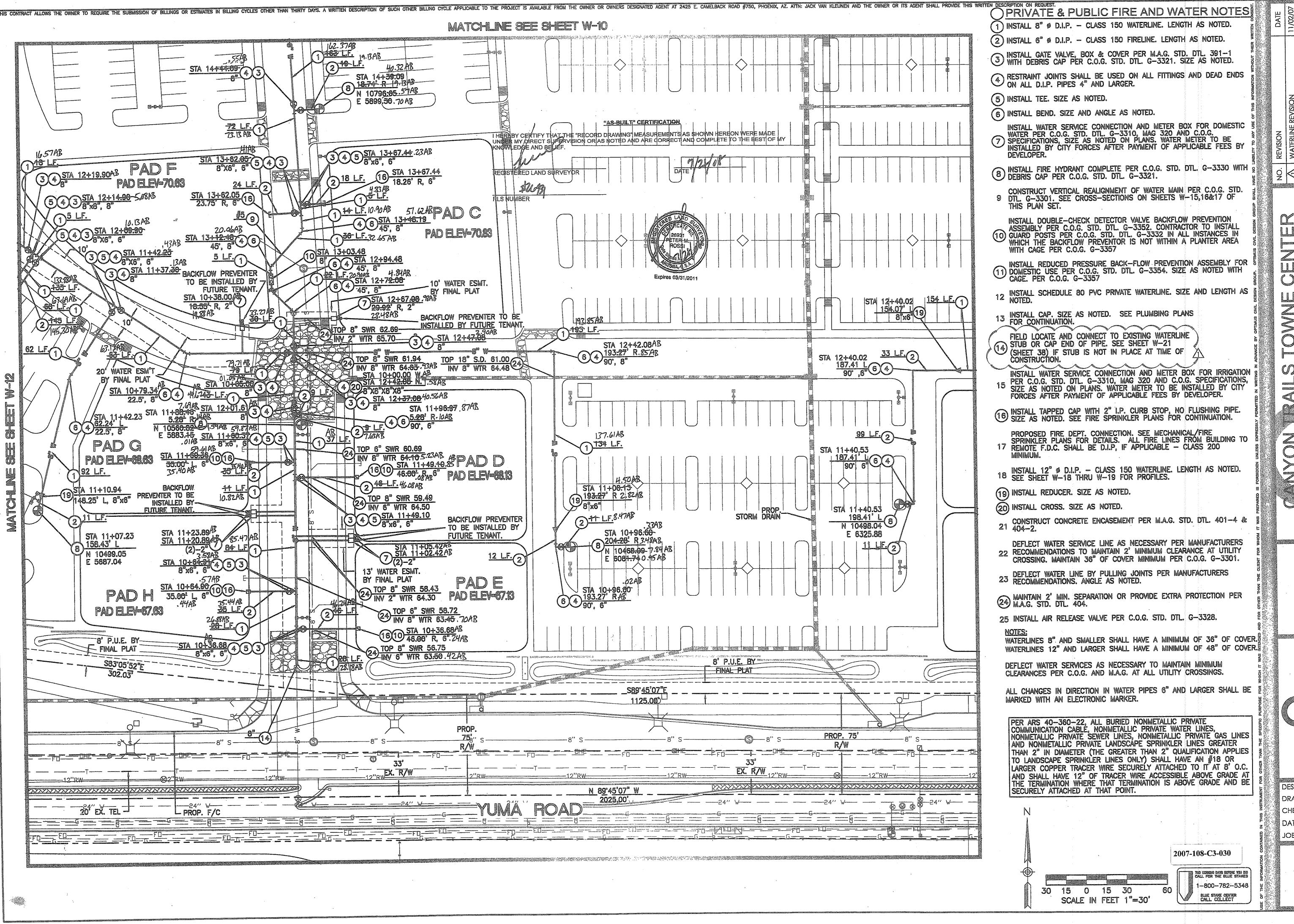




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ADAM J. RAUSCHER Signed II. S. Signed II. Signed II. S. Signed II. Signed II. S. Signed II. S. Signed II. Signed II. S. Signed II. Signed

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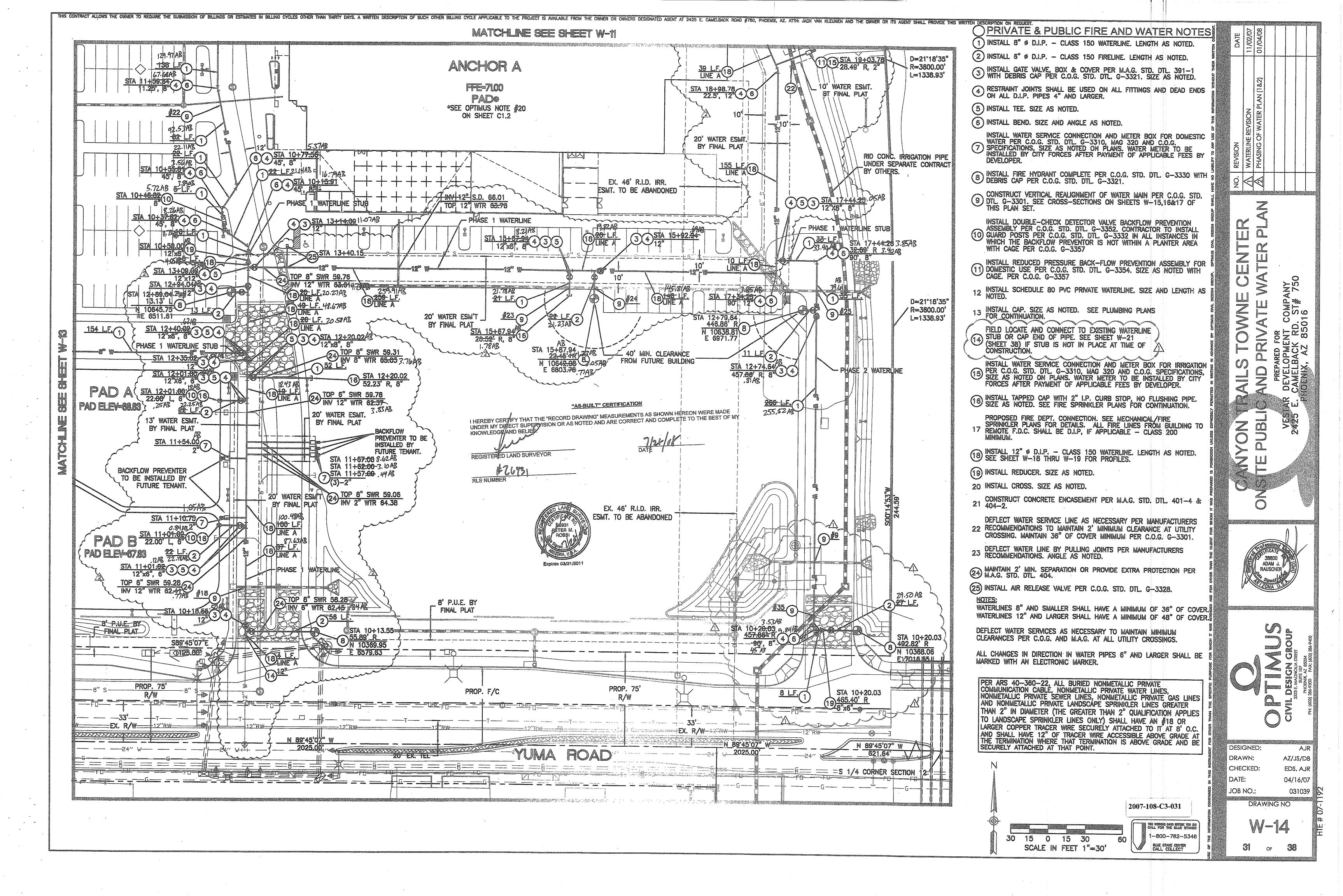
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CHECKED: EDS, AJR
DATE: 04/16/07

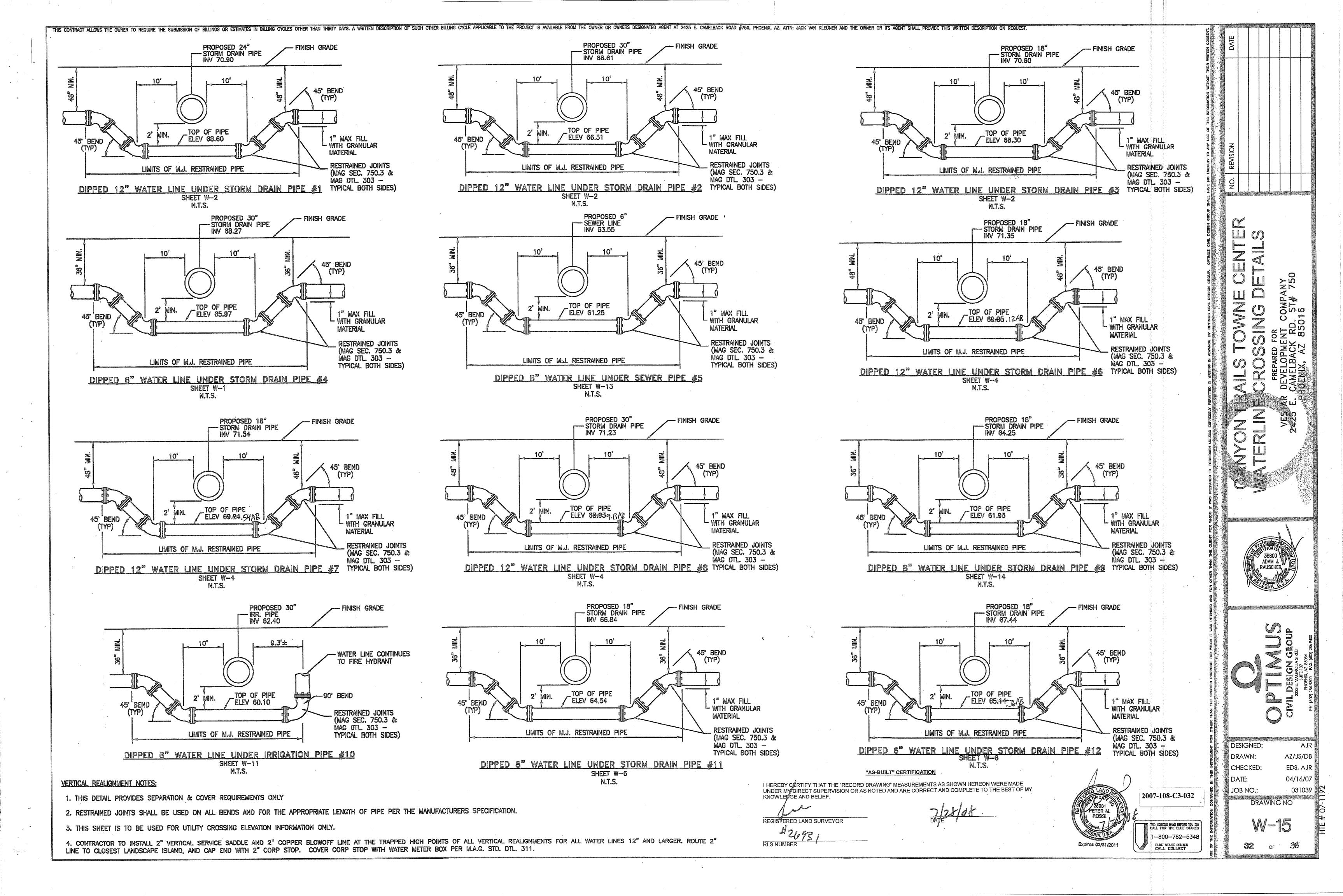
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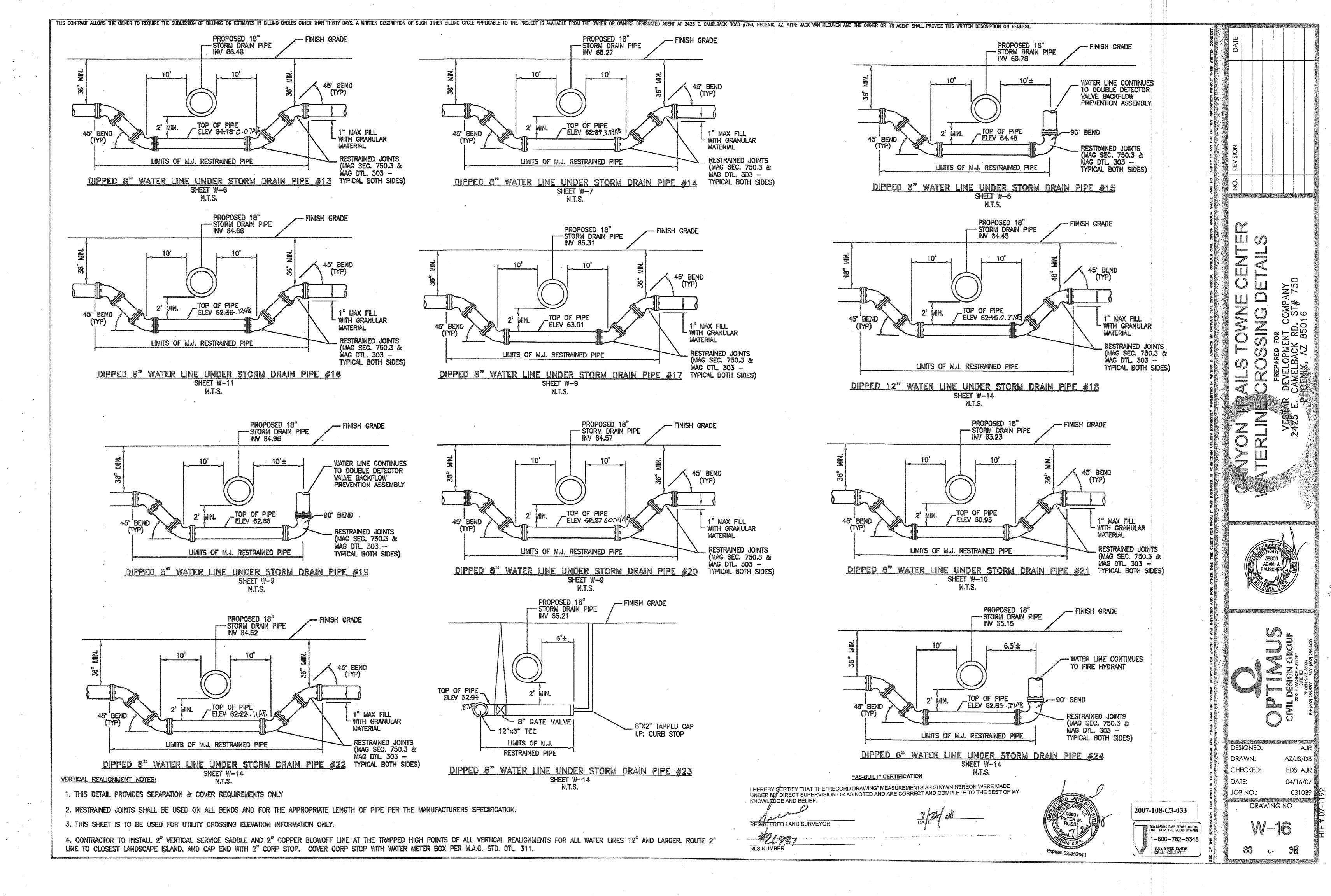
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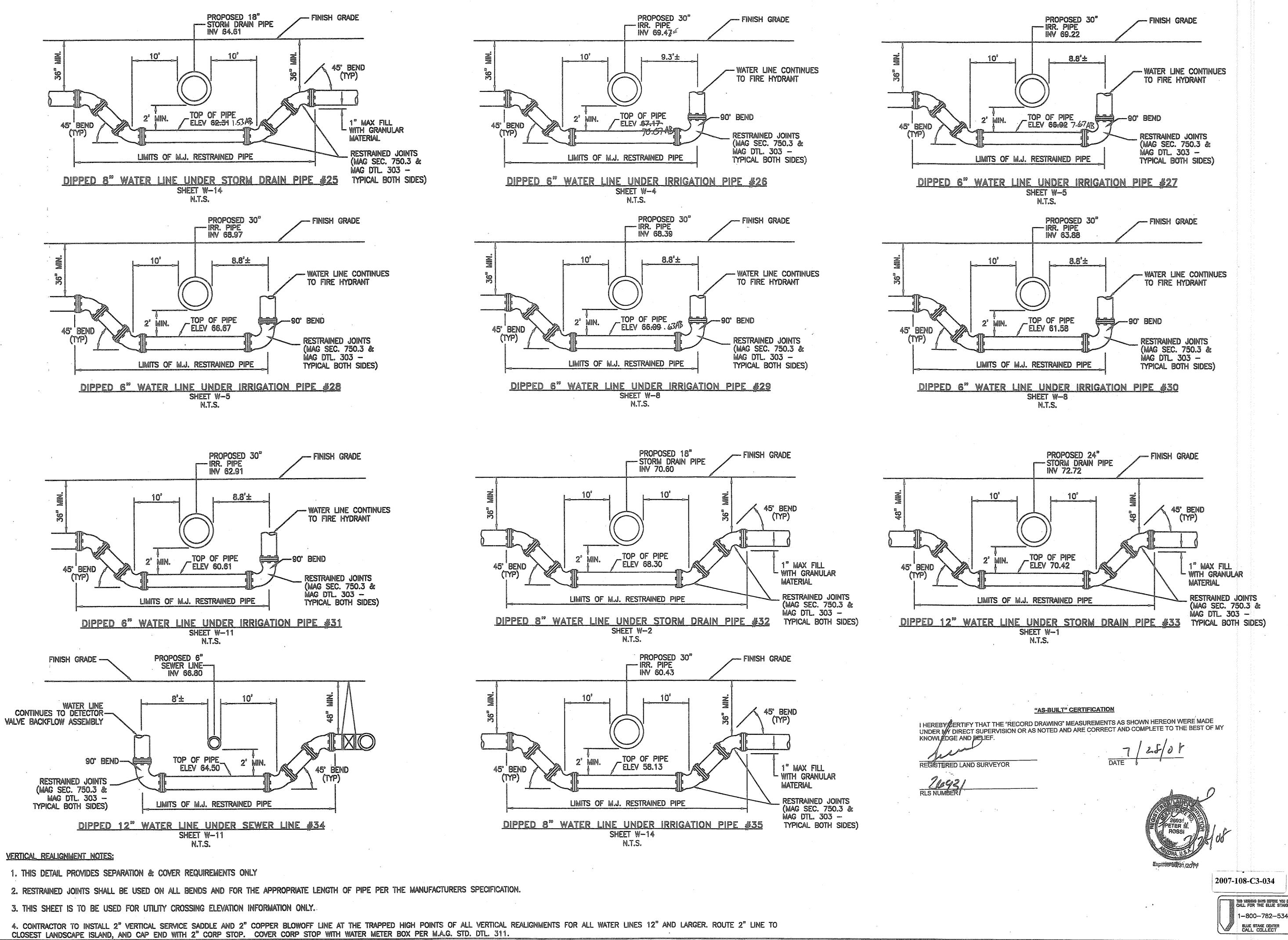
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THIS CONTRACT ALLOWS THE OWNER TO REQUIRE THE SUBMISSION OF BILLING CYCLE APPLICABLE TO THE PROJECT IS AVAILABLE FROM THE OWNER OR THE OWNER OWNER OR THE OWNER OWNER

1-800-782-5348 BLUE STAKE CENTER CALL COLLECT

TWO WORKENG DAYS BEFORE YOU DK CALL FOR THE BLUE STAKES

COM ST ST

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