



CITY OF SEDONA

SR179

SEWER MAIN UPSIZE - PHASE II

LOCATED IN A PORTION OF SECTION 7 & 18, TOWNSHIP 17 NORTH,
RANGE 6 EAST, COCONINO COUNTY, ARIZONA, G&SR MERIDIAN

CONTACT INFORMATION

OWNER CITY OF SEDONA
102 ROADRUNNER DRIVE
SEDONA, ARIZONA 86336
(928) 203-5069
ROXANNE HOLLAND, P.E.
DIRECTOR OF WASTEWATER

MAYOR SANDY MORIARTY

VICE MAYOR SCOTT JABLOW

CITY COUNCIL KATHY KINSELLA
TOM LAMKIN
HOLLY PLOOG
JON THOMPSON

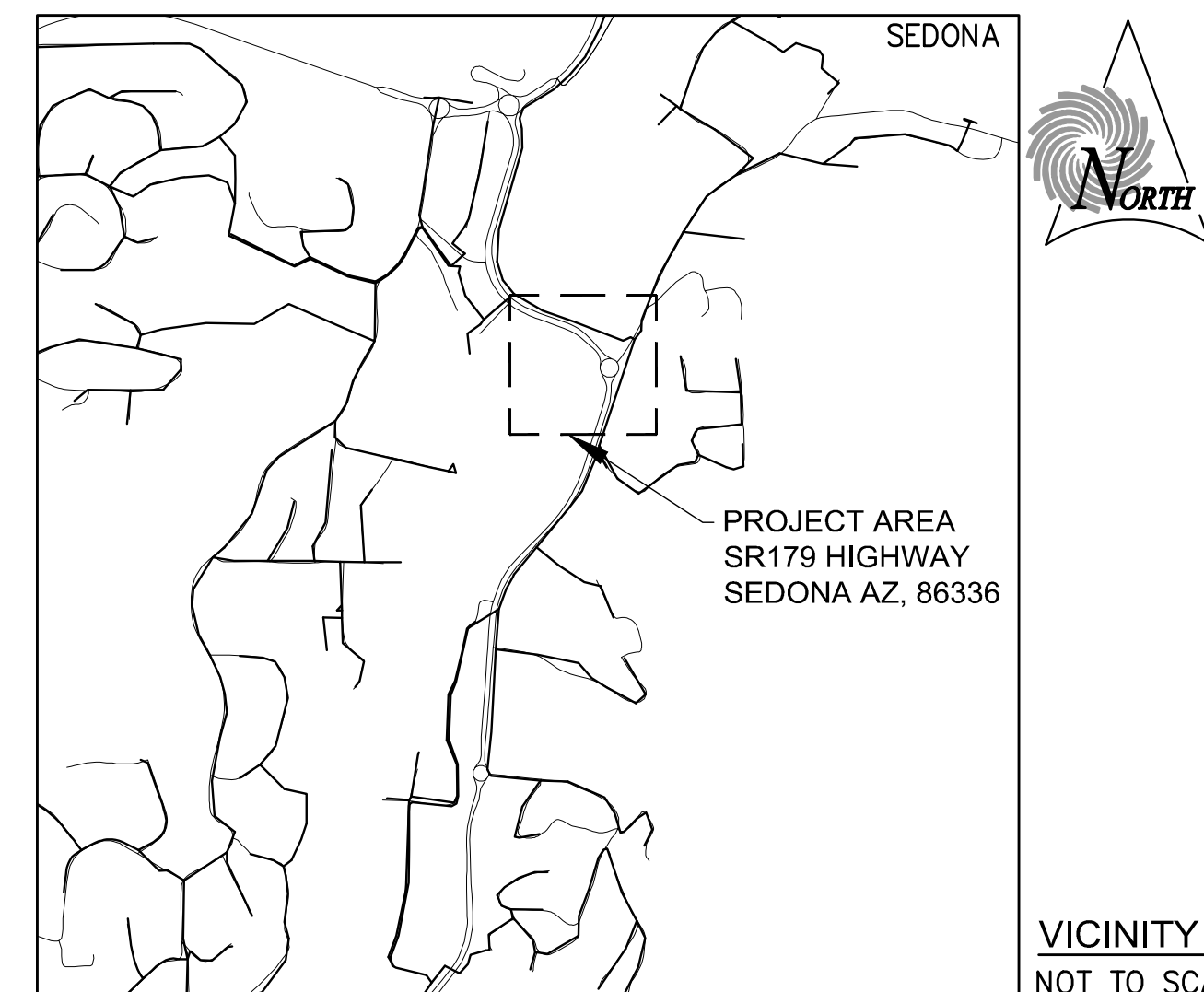
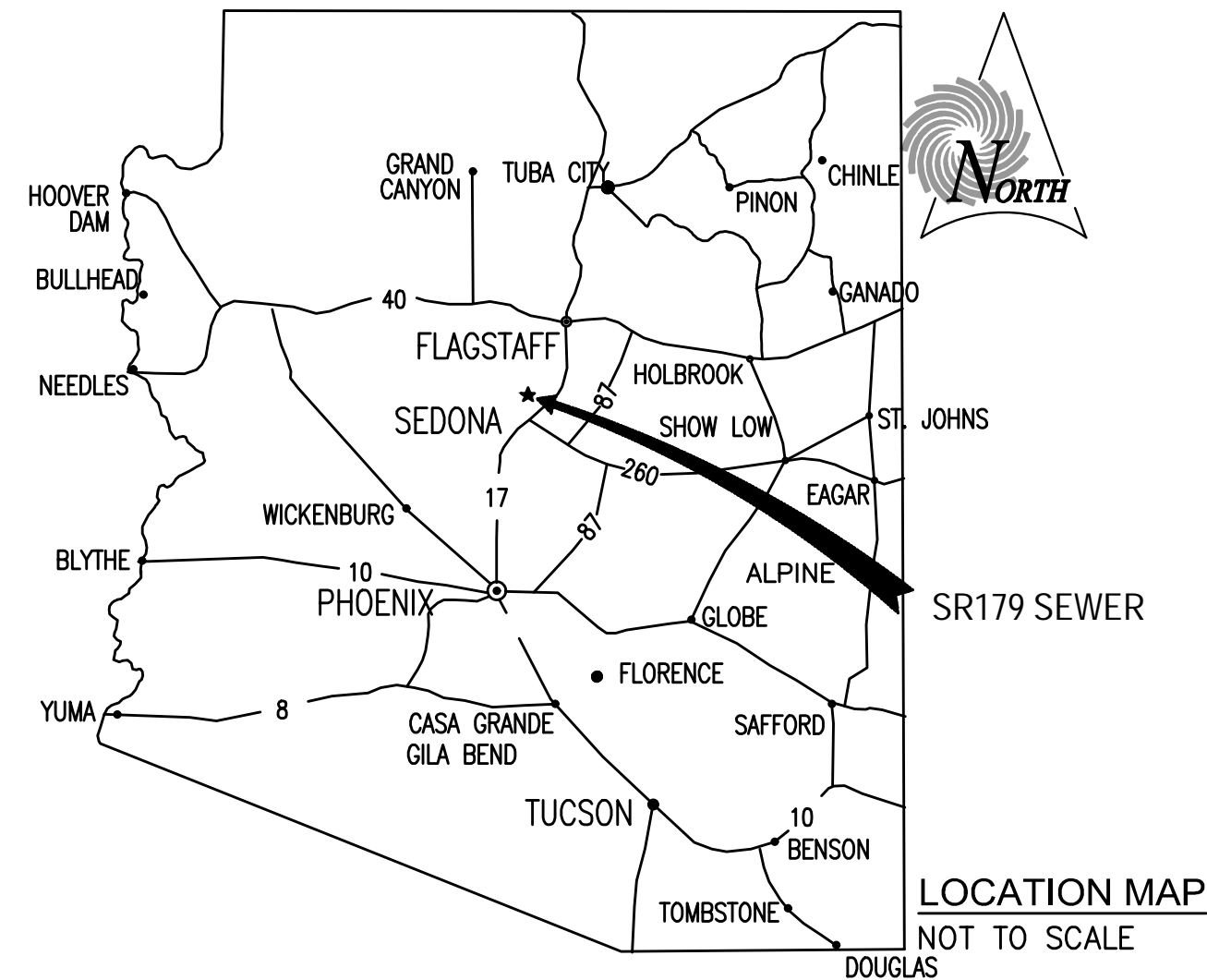
CITY MANAGER KAREN OSBURN

DIRECTOR OF WASTEWATER ROXANNE HOLLAND

ENGINEER SUNRISE ENGINEERING, INC.
2045 S VINEYARD, SUITE 101
MESA, AZ 85210
TELEPHONE: (480) 768-8600
CONTACT: ALLEN SNYDER, P.E.

LEGEND

	EXISTING CONCRETE		MILL & REPLACEMENT
	EXISTING PAVEMENT		TEMPORARY PAVEMENT
	LANDSCAPING		PROPOSED CONCRETE
	EXISTING SEWER		PROPOSED SEWER
	EXISTING WATER LINE		PROPOSED WATER LINE
	EXISTING UNDERGROUND ELECTRIC		PROPOSED UNDERGROUND ELECTRIC
	EXISTING OVERHEAD ELECTRIC		PROPOSED OVERHEAD ELECTRIC
	EXISTING GAS LINE		PROPOSED GAS LINE
	EXISTING UNDERGROUND TELEPHONE		PROPOSED UNDERGROUND TELEPHONE
	EXISTING CABLE LINE		PROPOSED CABLE LINE
	EXISTING UTILITY, TYPE & SIZE PER PLAN		PROPOSED FIBER CONDUIT
	EXISTING PROPERTY LINE		PROPOSED WALL
	EXISTING BARBED WIRE FENCE		PROPOSED FLOWLINE
	EXISTING WALL		PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION		PROPOSED CONTOUR
	EXISTING CONTOUR		PROPOSED AIR RELEASE VALVE
	EXISTING SIGN		PROPOSED GATE VALVE
	EXISTING GATE VALVE		PROPOSED FIRE HYDRANT
	EXISTING FIRE HYDRANT		PROPOSED WATER METER
	EXISTING WATER METER		PROPOSED CABLE MANHOLE
	EXISTING POWER POLE		PROPOSED PULL BOX
	EXISTING LIGHT POLE		PROPOSED GAS MANHOLE
	EXISTING CABLE MANHOLE		PROPOSED GAS METER
	EXISTING ELECTRIC MANHOLE		PROPOSED GAS RISER
	EXISTING GAS MANHOLE		PROPOSED GAS VALVE
	EXISTING GAS METER		PROPOSED SEWER MANHOLE
	EXISTING GAS RISER		PROPOSED SEWER CLEANOUT
	EXISTING GAS VALVE		PROPOSED STORM DRAIN MANHOLE
	EXISTING SEWER MANHOLE		PROPOSED TELEPHONE MANHOLE
	EXISTING SEWER CLEANOUT		PROPOSED CATCH BASIN
	EXISTING STORM DRAIN MANHOLE		PROPOSED STORM DRAIN AND STRUCTURE
	EXISTING TELEPHONE MANHOLE		PROPOSED DRYWELL
	EXISTING WATER MANHOLE		PROPOSED TEE
	EXISTING CATCH BASIN		PROPOSED ELBOW
	EXISTING STORM DRAIN AND STRUCTURE		BRASS CAP MONUMENT
	EASEMENT		PROPOSED VEGETATION
	GRADE BREAK		PLAN, SECTION OR DETAIL LABEL
	RIGHT-OF-WAY		DRAWING TITLE/SHEET NUMBER
	ROADWAY CENTERLINE		
	SECTION LINE		



DIRECTIONS TO THE SITE FROM PHOENIX
GET ON I-17 N/US-60 W FROM WEST WASHINGTON STREET AND W ADAMS STREET; FOLLOW 1-17 N TO AZ-179 N/STATE HWY 179 N IN YAVAPAI COUNTY. TAKE EXIT 298 FROM 1-17 N; DRIVE TO AZ-179 N IN SEDONA. PROJECT AREA IS SR179 HIGHWAY BETWEEN COOPER CLIFFS DR AND SCHNEBLY HILL RD.

UTILITY COORDINATION BLOCK

<input type="checkbox"/> AMERICAN TELEPHONE & TELEGRAPH	JOSEPH FORKERT <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 5/16/19
<input type="checkbox"/> ARIZONA DEPT OF TRANSPORTATION	JAMES KLINE JR <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 8/9/19
<input type="checkbox"/> ARIZONA PUBLIC SERVICES	CARBY HROBER <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 5/21/19
<input type="checkbox"/> ARIZONA WATER CO.	KEITH SELF <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 5/16/19
<input type="checkbox"/> CENTURY LINK	DAN NEIMY <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 5/17/19
<input type="checkbox"/> NPG CABLE LLC	MATT HERMAN <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 6/11/19
<input type="checkbox"/> UNISOURCE ENERGY SERVICES (GAS)	ROB JUSTUS <small>COMPANY REPRESENTATIVE CONTACTED</small>	RECEIVED: 6/12/19

SHEET INDEX		
SHT NO.	DWG NO.	DESCRIPTION
1	COV	COVER
2	GN	SEI & ADOT GENERAL NOTES AND QUANTITIES
3	IND	INDEX, HORIZONTAL CONTROL, & ABBREVIATIONS
4	SO1	PLAN AND PROFILE
5	TP01	TEMPORARY PAVING PLANS
6 - 8	DT1 - DT3	DETAILS

APPROVAL

APPROVED:

ROXANNE HOLLAND, P.E. DIRECTOR OF WASTEWATER

DATE

BENCHMARK

AN NGS BRASS CAP FLUSH SET IN RED SANDSTONE DESIGNATION Y 492, MARKED "Y 492 1982" ELEVATION = 4439.555 NAVD-88

NOTICE OF EXTENDED PAYMENT PROVISION

(PER ARS 32-1129.01) THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR PROGRESS PAYMENTS, WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR RELEASE OF RETENTION AND WITHIN 15 DAYS AFTER CERTIFICATION AND APPROVAL OF BILLINGS AND ESTIMATES FOR FINAL PAYMENT.

FLOOD ZONE

THIS PROPERTY IS LOCATED IN ZONE "X", ACCORDING TO FLOOD INSURANCE RATE MAP (FIRM) FOR COCONINO COUNTY, ARIZONA AND INCORPORATED AREAS (MAP NUMBER 04005C7657G WITH THE EFFECTIVE DATE OF SEPTEMBER 3, 2010). ZONE X CONSISTS OF AREAS DETERMINED TO BE OUTSIDE A 500-YEAR FLOODPLAIN AND OUTSIDE THE 1% AND 0.2% ANNUAL CHANCE FLOODPLAINS.



REV NO.	COMMENT	DATE

69426
ALLEN
SNYDER
Arizona State Engineer
Exp/Res 9/31/22

SUNRISE ENGINEERING

2045 SOUTH VINEYARD, SUITE 101
MESA, ARIZONA 85210
TEL 480.768.8600
www.sunrise-eng.com

CITY OF SEDONA

SR179
SEWER MAIN UPSIZE - PHASE II
COVER

SEI NO. 06831	DESIGNED AS	DRAWN KH	CHECKED AS	COV	1 of 8
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QUANTITIES		
DESCRIPTION	QTY	UNITS
<u>DEMO</u>		
1 SAWCUT & REMOVE EXISTING PAVEMENT	165	SY
2 REMOVE EXISTING 8" SANITARY SEWER PIPE	363	LF
3 REMOVE EXISTING CURB & GUTTER	222	LF
4 REMOVE & REPLACE LANDSCAPING IN KIND	100	SF
6 REMOVE EXISTING SIDEWALK	1796	SF
8 REMOVE EXISTING MANHOLE	1	EA
<u>PAVING</u>		
1 REPLACE ASPHALT PAVEMENT SECTION IN KIND. SEE DETAIL D, SHEET DT3 FOR EXISTING PAVEMENT SECTION. ASPHALT CONCRETE SHALL BE PER ADOT 409 AND USE PG 70-22 BINDER.	165	SY
2 VERTICAL CURB & GUTTER (TYPE A) PER MAG STD DETAIL 220-1 WITH 3" OF ADOT CLASS II ABC.	222	LF
3 CONCRETE SIDEWALK PER ADOT STD DETAIL C-05.20. FINISH, COLOR & WIDTH TO MATCH EXISTING AND PER CITY OF SEDONA SPECIFICATIONS. CONTRACTOR TO SUBMIT COLOR TO COS FOR ACCEPTANCE PRIOR TO INSTALLATION OF ANY SIDEWALK.	1796	SF
4 2" MILL AND REPLACEMENT. ASPHALT SHALL BE PER ADOT 409 AGGR SPECS, SEE DETAIL D, SHEET DT3. MILL AND REPLACEMENT SHALL EXTEND 50' BEYOND ANY PAVEMENT DISTURBANCE OUTSIDE THE BIKE LANE FOR THE ENTIRE WIDTH OF THE LANE.	690	SY
<u>SEWER</u>		
1 CONNECT PROPOSED SEWER PIPE TO EXISTING SANITARY SEWER MANHOLE. CORE EXISTING CONCRETE MANHOLE TO ACCEPT PROPOSED PIPE. CUT PIPE FLUSH TO P INTERIOR WALL OF MANHOLE. FILL VOIDS WITH NON-SHRINK GROUT PER MANUFACTURER'S SPECIFICATIONS. REHABILITATE AND COAT MANHOLE.	1	EA
2 INSTALL 12" SEWER PIPE (C900 PVC). DEFLECT PIPE AS NECESSARY AND WITHIN PIPE MANUFACTURER'S SPECIFICATIONS. TRENCH & BACKFILL PER MAG STD SPEC 601 AND PER DETAIL 4, SHEET DT2. TRACER WIRE PER DETAIL 3, SHEET DT2.	363	LF
3 CONNECT EXISTING SERVICE TAP TO PROPOSED SEWER PIPE PER MAG STD DETAIL 440-1, TYPE A.	1	EA
<u>FIBER OPTIC</u>		
1 3" FIBER OPTIC CONDUIT, LENGTH PER PLAN. SHARED TRENCH PER DETAIL 4, SHEET DT2. SWEEPS TO PULL BOXES AND ALL BENDS MUST HAVE A MINIMUM 36" RADIUS.	300	LF
2 # 7 PULL BOX PER ADOT STD DETAIL FM-2.06.	1	EA

SEI GENERAL NOTES

- ALL SITE WORK SHALL CONFORM TO MAG UNIFORM STANDARD DETAILS, LATEST REVISION, THE PROJECT SPECIFICATIONS AND THE SPECIFICATIONS AND DETAILS BY THE JHA (JURISDICTION HAVING AUTHORITY) UNLESS SPECIFICALLY STATED OTHERWISE IN THESE PLANS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING PERMITS, RENEWAL OF LAPSED PERMITS, AND OBTAINING ANY NEW PERMITS, INCLUDING, BUT NOT LIMITED TO A DUST CONTROL PERMIT, AND TRAFFIC CONTROL PERMITS AS REQUIRED BY THE JHA.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS FOR INSPECTION AND TESTING.
- THE CONTRACTOR SHALL NOTIFY THE JHA'S INSPECTION DEPARTMENT 24 HOURS PRIOR TO CONSTRUCTION. CONSTRUCTION CONCEALED WITHOUT THE REQUIRED INSPECTION SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CALL BLUE STAKE AT (602) 263-1100 AT LEAST 48 HOURS BEFORE ANY CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL FOLLOW GUIDELINES AND REGULATIONS SET FORTH BY O.S.H.A. SUNRISE ENGINEERING, INC. WILL NOT BE RESPONSIBLE FOR JOB-SITE SAFETY PROCEDURES OR CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN TAKEOFF QUANTITIES. QUANTITIES IF SHOWN HEREON ARE ESTIMATES ONLY AND AS SUCH ARE NOT TO BE USED FOR BID PURPOSES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION OF THE PROPER AUTHORITY(S) IF THERE ARE OBSTRUCTIONS TO PROPOSED IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY EXISTING ITEM REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED IN THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR LOCATION OF SERVICE AND/OR RELOCATION OF UTILITIES IN CONFLICT WITH PROPOSED CONSTRUCTION. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND SAFELY DISPOSE OF ALL REMOVAL MATERIAL AND DEBRIS DEEMED UNSALVAGEABLE BY THE WASTEWATER MANAGER PER THE PROVISIONS SET FORTH IN MAG SPECIFICATION 350.
- THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL ON AND AROUND THE CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES. NO WORK WILL BE CONSIDERED COMPLETE UNTIL ALL PAVEMENTS HAVE BEEN SWEEPED CLEAN OF DIRT AND DEBRIS.
- PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE NATIVE PLANTS (602) 542-3292.
- A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION AND SHALL DETERMINE THE EXACT LOCATION OF UTILITIES IN ADVANCE OF TRENCHING. THE ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS AT LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL PROVIDE A LICENSED SURVEYOR FOR THE SURVEYING/CONSTRUCTION STAKING OF ALIGNMENT AND GRADE FOR EACH MAIN AND/OR FACILITY AS SHOWN ON THE PLANS.
- EXACT POINT OF MATCHING, TERMINATION AND OVERLAY, IF NECESSARY, MAY BE DETERMINED IN THE FIELD BY THE ENGINEER OF RECORD OR THE RESIDENT ENGINEER OVERSEEING THE PROJECT CONSTRUCTION.
- ANY AMBIGUITIES OR DEFICIENCIES DISCOVERED ON THESE PLANS ARE TO BE RESOLVED BY SUNRISE ENGINEERING OR ITS APPOINTED REPRESENTATIVE. ANY MODIFICATIONS TO THESE PLANS MADE BY ANYONE OTHER THAN SUNRISE ENGINEERING OR ITS APPOINTED REPRESENTATIVE IS SOLELY RESPONSIBLE FOR THOSE MODIFICATIONS.
- THE CONTRACTOR SHALL RE-GRADE ALL EARTHEN DRIVEWAYS DISTURBED WITHIN THE RIGHT-OF-WAY DURING THE CONSTRUCTION AND RE-COMPACT THE TOP 1-FEET OF SURFACE MATERIAL TO A MINIMUM COMPACTION OF 90% MAXIMUM DRY DENSITY. THE RE-GRADED DRIVEWAYS SHALL BE OVERLAID WITH A 0.5' LAYER OF HALF-INCH MINUS ROADWAY GRAVEL AND RAKED SMOOTH.
- THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL AND BARRICADES FOR WORK IN THE RIGHT-OF-WAY PER THE STANDARDS SET FORTH BY THE JHA.
- LIFT STATION SHUTDOWNS SHALL BE COORDINATED AND APPROVED BY THE CITY OF SEDONA.
- LOCATING AND COORDINATING STAGING AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- STAGING AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITIONS OR BETTER AT THE END OF CONSTRUCTION ACTIVITIES UNLESS OTHERWISE AGREED UPON.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, SUBMITTING, AND IMPLEMENTING THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR MUST ENSURE COMPLIANCE WITH AZPDES REQUIREMENTS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, STATUTES, RULES AND REGULATIONS PERTAINING TO STORMWATER DISCHARGE AND AIR, GROUND WATER AND SURFACE WATER QUALITY. AS THE PERMITTEE, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING, IN A MANNER ACCEPTABLE TO THE ADEQ AND EPA, ALL DOCUMENTS REQUIRED BY REGULATIONS. SWPPP MUST BE SUBMITTED TO THE ENGINEER AND CLIENT FOR APPROVAL. SWPPP REPORTS MEETING CODE REQUIREMENTS MUST BE SUBMITTED TO THE ENGINEER ON A ROUTINE BASES AS THEY ARE GENERATED.

SEI GRAVITY SEWER NOTES

- THE CONTRACTOR IS TO FIELD VERIFY THE LOCATIONS. THE INVERT ELEVATIONS AND THE MATERIALS OF ALL EXISTING SEWER PIPES OR MANHOLES AT THE POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW SEWER CONSTRUCTION. SHOULD ANY LOCATION, ELEVATION OR MATERIAL DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR IS TO CONTACT THE ENGINEER FOR DIRECTION.
- ALL 4 INCH THROUGH 15 INCH PVC (POLYVINYL CHLORIDE) PLASTIC GRAVITY SEWER PIPE AND FITTINGS SHALL BE IN CONFORMANCE WITH MAG STANDARD SPECIFICATION 745 AND SHALL BE INSTALLED PER THESE PLANS, MAG STANDARD SPECIFICATIONS 601, 602 & 615 AND THE PIPE MANUFACTURER'S RECOMMENDATIONS.
- ALL 4 INCH THROUGH 24 INCH DUCTILE IRON SEWER PIPE AND FITTINGS SHALL BE ANSI THICKNESS CLASS 52 WITH AN APPROVED POLYURETHANE OR CERAMIC EPOXY INTERIOR LINING, WITH AN APPROVED PETROLEUM ASPHALTIC EXTERIOR COATING, AND SHALL BE ENCASED WITHIN AN APPROVED POLYETHYLENE ENCASEMENT. PIPES AND FITTINGS SHALL BE INSTALLED PER THESE PLANS, MAG STANDARD SPECIFICATIONS 601, 602 & 615 AND THE PIPE MANUFACTURER'S RECOMMENDATIONS.
- THE CONSTRUCTION INSPECTOR IS ANY AGENT OF THE CONTRACTING PARTY THAT HAS BEEN RETAINED TO ASSURE THAT THE WORK COVERED BY THESE PLANS IS PERFORMED CORRECTLY AND COMPLIES WITH THESE PLANS AND ANY APPLICABLE SPECIFICATIONS.
- IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, THE CONTRACTOR SHALL PERFORM FIVE PERCENT MANDREL DEFLECTION TESTS (AND MAINTAIN RECORDS OF THE RESULTS) ON THE TOTAL LENGTH (100%) OF ALL PVC AND SEWER LINES INSTALLED. ANY SEGMENT OF PIPE FAILING THE FIVE PERCENT MANDREL DEFLECTION TEST SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACTING PARTY.
- IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, THE CONTRACTOR SHALL PERFORM LEAKAGE TESTS (AND MAINTAIN RECORDS OF THE RESULTS) ON THE TOTAL LENGTH (100%) OF ALL SEWER LINES INSTALLED. THE CONTRACTOR SHALL USE THE FOLLOWING APPLICABLE TEST METHOD: A. "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR" ASTM F1417 (LATEST REVISION) B. "STANDARD TEST METHOD FOR LOW-PRESSURE AIR TEST OF VITRIFIED CLAY PIPE LINES" ASTM C828 (LATEST REVISION). C. DUCTILE IRON SEWER PIPE SHALL BE TESTED USING THE SAME TEST METHOD FOR THE TYPICAL SEWER PIPE MATERIAL INSTALLED. SEGMENTS OF SEWER PIPE THAT FAIL THE LEAKAGE TEST SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACTING PARTY.
- FORCE MAIN PRESSURE TEST SHALL BE PER MAG 611 HYDROSTATIC TEST.
- IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, THE CONTRACTOR SHALL PERFORM GRADE TESTS (AND MAINTAIN RECORDS OF THE RESULTS) ON THE TOTAL LENGTH (100%) OF THE SEWER LINE INSTALLED FOR UNIFORM SLOPE BY LAMP LIGHTING, REMOTE CAMERA OR SIMILAR METHOD APPROVED BY THE UTILITY. ANY SEWER LINE THAT HAS BEEN INSTALLED AT A GRADE DIFFERENT FROM THAT CALLED FOR IN THESE PLANS, AND IS DETERMINED TO BE UNACCEPTABLE TO THE CONSTRUCTION INSPECTOR, SHALL BE RE-LAID TO THE CORRECT GRADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACTING PARTY.
- IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, THE CONTRACTOR SHALL PERFORM LEAKAGE TESTS (AND MAINTAIN RECORDS OF THE RESULTS) ON ALL COMPLETED MANHOLES USING ONE OF THE FOLLOWING TEST PROTOCOLS:
 - WATERTIGHTNESS TESTING BY FILLING THE MANHOLE WITH WATER. THE APPLICATION SHALL ENSURE THAT THE DROP IN THE WATER LEVEL DOES NOT EXCEED 0.001 (0.1%) OF TOTAL MANHOLE VOLUME IN ONE HOUR.
 - AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE (VACUUM) TEST" ASTM C1244 (LATEST REVISION). ANY MANHOLE THAT FAILS THE LEAKAGE TEST SHALL BE CORRECTED AS DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR AT NO ADDITIONAL COST TO THE CONTRACTING PARTY.
- ANY LOT, WHICH HAS A FINISH FLOOR ELEVATION LESS THAN 4" HIGHER THAN THE UPSTREAM MANHOLE/CLEAN OUT RIM ELEVATION, AS DETERMINED FROM THE SEWER SERVICE CONNECTION POINT, IS TO HAVE AN APPROVED BACKFLOW PREVENTER INSTALLED ON THAT LOT'S SEWER SERVICE LINE AT THE POINT OF TERMINATION.
- SEWER PIPE JOINT DEFLECTION SHALL NOT EXCEED PIPE MANUFACTURER'S RECOMMENDATION. PIPES SHALL NOT BE DEFLECTED AT JOINTS UNLESS CALLED FOR IN THESE PLANS, OR APPROVED BY THE ENGINEER.
- A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION AND SHALL DETERMINE THE EXACT LOCATION OF UTILITIES IN ADVANCE OF TRENCHING. THE ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS AT LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.

GENERAL PLAN NOTES

ADOT ENCROACHMENT PERMITS

- "ALL WORK WITHIN THE ARIZONA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY, HELD EITHER IN EASEMENT, FEE OR DEDICATED, SHALL DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ADOT PUBLICATIONS AS CURRENTLY REVISED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – 2008 EDITION
 - CONSTRUCTION STANDARD DRAWINGS – MAY 2012 EDITION INCLUDING REVISIONS
 - TRAFFIC ENGINEERING STANDARDS, GUIDELINES AND REFERENCES
 - GUIDELINES AND PROCESSES – JUNE 2015
 - ARIZONA MANUAL OF APPROVED SIGNS (MOAS)
 - SIGNING AND MARKING STANDARD DRAWINGS.
 - SIGNALS AND LIGHTING STANDARD DRAWINGS
 - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES – 2009 EDITION
 - ARIZONA SUPPLEMENT TO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES – 2009 EDITION
 - ANY AND ALL OTHER ADOT TRAFFIC ENGINEERING REFERENCES
 - APPROVED PRODUCTS LIST – CURRENT EDITION
 - EROSION AND POLLUTION CONTROL MANUAL FOR HIGHWAY DESIGN AND CONSTRUCTION – DECEMBER 2012

- EROSION/SEDIMENT AND WATER QUALITY PROTECTION BEST MANAGEMENT PRACTICES (BMP) DETAILS.
- IN ADDITION ANY AND ALL MATERIALS UTILIZED IN CONSTRUCTION WITHIN THE RIGHTS-OF-WAY OF THE ARIZONA DEPARTMENT OF TRANSPORTATION SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – 2008 EDITION AND/OR BE AN APPROVED MATERIAL LISTED IN THE CURRENT ADOT APPROVED PRODUCTS LIST ALSO KNOWN AS THE APL.
- ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – 2008 EDITION SECTION 106.08 SHALL APPLY WHEN PLANS REQUIRE THE USE OF AN ALTERNATIVE OR A SUBSTITUTION ARTICLE OF EQUIPMENT, MATERIAL OR PROCESS.
- ADDITIONALLY, SECTION 106.14 OF THE ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – 2008 EDITION SHALL APPLY WHEN A PRODUCT THAT IS NOT LISTED IN THE CURRENT APL PROPOSED FOR USE.
- ALL MATERIALS UTILIZED FOR A PERMITTED ACTIVITY SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING UNLESS OTHERWISE APPROVED IN WRITING BY THE ADOT:
 - SECTION 106.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – 2008 EDITION
 - THE ADOT MATERIALS TESTING MANUAL.
 - THE ADOT MATERIALS POLICY AND PROCEDURES DIRECTIVES MANUAL
 - APPLICABLE FEDERAL, ASHTO OR ASTM SPECIFICATION OR TEST DESIGNATIONS.
 - APPLICABLE SPECIFICATION OR TEST DESIGNATIONS OF OTHER RECOGNIZED ORGANIZATIONS.
- THE TERM "ENGINEER" AS STATED IN SECTION 106.08 AND SECTION 106.14 OF THE ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – 2008 EDITION SHALL REFER TO THE ADOT DISTRICT DEVELOPMENT ENGINEER, THE DISTRICT ASSISTANT DISTRICT ENGINEER OR THE DISTRICT ENGINEER.


ADOT SIGNING & MARKING NOTES

- (PAVEMENT MARKINGS)
 - ALL WORK TO BE DONE WITHIN THE ADOT RIGHT-OF-WAY SHALL CONFORM TO THE CURRENT EDITION OF THE ADOT SIGNING AND MARKING STANDARD DRAWINGS.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET 1-FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - THE DIMENSIONS SHOWN TO PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING OR, IN THE CASE OF DOUBLE STRIPING, TO THE CENTER OF THE DOUBLE STRIPING.
 - AT THE COMPLETION OF THE FINAL PAVEMENT SURFACE, CENTERLINES, LANE LINES, EDGE LINES, AND THE STOP BAR SHALL BE STRIPED WITH ONE APPLICATION OF STANDARD REFLECTORIZED TRAFFIC PAINT AT THE LOCATION OF THE PERMANENT STRIPING. THE PAINT SHALL HAVE A MAXIMUM THICKNESS OF 15 MILS WET.
 - THE FINAL STRIPING SHALL BE REFLECTORIZED DUAL COMPONENT EPOXY PER SECTION 709 OF THE 2008 ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PLACED OVER THE EXISTING STRIPING 30 DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE ENGINEER. AT THE CONTRACTOR'S OPTION, ONLY TRANSVERSE MARKINGS AND/OR SYMBOLS MAY BE STRIPED WITH 90 MIL (0.090 INCH) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING ACCORDING TO SECTION 704 OF THE 2008 ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT MARKING TEMPERATURES SHALL NOT BE LESS THAN 55 DEGREE F FOR THE PLACEMENT OF THERMOPLASTIC MARKINGS.
 - ALL RAISED PAVEMENT MARKERS SHALL HAVE AN ABRASION RESISTANT COATING ON THE FACE OF THE PRISMATIC REFLECTORS AND SHALL CONFORM TO THE DETAILS OF STD. DWG. M-19. THEY SHALL BE INSTALLED WITH A BITUMINOUS ADHESIVE THAT IS ON THE ADOT APPROVED PRODUCTS LIST.
 - (IF APPLICABLE) THE CONTRACTOR SHALL NOTIFY THE ENGINEER TWO WEEKS PRIOR TO THE APPLICATION OF THE FINAL SURFACE COURSE TO SCHEDULE A "NO PASSING ZONE" SURVEY BY STATE FORCES. THE "NO PASSING ZONE" SURVEY SHALL SUPERSEDE THE PERMANENT PAVEMENT MARKING PLANS. THE CONTRACTOR SHALL NOT APPLY THE PAVEMENT MARKING ON THE FINAL PAVEMENT SURFACE UNTIL THE ENGINEER APPROVES THE LAYOUT FOR THE PERMANENT PAVEMENT MARKINGS, INCLUDING ANY ADJUSTMENTS BASED UPON THE "NO PASSING ZONE" SURVEY. THE "NO PASSING ZONE" CREW MAY BE REACHED AT (602) 228-0889, (602) 228-2508, OR (602) 228-4932.
 - WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY WATER BLASTING. IF THE EXISTING SURFACE IS DAMAGED DUE TO THE OBLITERATION, A NEW SURFACE COURSE SHALL BE PLACED AS DIRECTED BY ADOT.
 - THREE WORKING DAYS PRIOR TO FINAL STRIPING LAYOUT, PLEASE CONTACT ADOT NORTHERN REGIONAL SIGNING AND STRIPING SECTION AT 928-527-0899, ANTHONY LOPEZ, TO COORDINATE THE LAYOUT INSPECTIONS.
- (SIGNING)
 - ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE ADOT SIGNING AND MARKING STANDARD DRAWINGS, AND THE TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS. SEE WEB SITE FOR THE ADOT MANUAL OF APPROVED SIGNS. [HTTP://WWW.AZDOT.GOV/BUSINESS/ENGINEERING-AND-CONSTRUCTION/TRAFFIC](http://www.azdot.gov/BUSINESS/ENGINEERING-AND-CONSTRUCTION/TRAFFIC)
 - THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.

- THE CONTRACTOR SHALL INSTALL THE SIGNS SO THE NEAREST EDGE OF CORNER OF EACH SIGN IS OFFSET 12 FEET FROM THE NEAREST EDGE OF PAVEMENT, EXCEPT AS OTHERWISE INDICATED.
- ALL SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM WITH DIRECT APPLIED COPY OR SILK-SCREENED LEGEND.
- ALL SIGNS SHALL BE INSTALLED ON NEW SQUARE TUBE POSTS WITH FOUNDATIONS AS INDICATED ON STD. DWG. S-1 AND S-3 WITH 2 NUTS PER BOLT.
- ALL BOLTS USED TO INSTALL SIGNING SHALL HAVE HEX HEADS, NOT SLOTTED HEADS.
- THE CONTRACTOR SHALL USE ONLY CADMIUM-PLATED OR ZINC-PLATED STEEL WASHERS, NOT NYLON WASHERS, BETWEEN EACH BOLT HEAD AND THE FACE OF THE SIGN PANEL.
- THE RETRO-REFLECTIVE SHEETING ON ALL NEW SIGNS SHALL MEET THE CRITERIA ESTABLISHED FOR TYPE IX OR XI SHEETING IN ACCORDANCE WITH ASTM D4956. ALL YELLOW SHEETING SHALL BE FLUORESCENT YELLOW.
- THE CONTRACTOR SHALL PRESERVE ALL ROADWAY SIGNS, SIGN SUPPORTS, OBJECT MARKERS, AND MILEPOST MARKERS, AND SHALL REPLACE WITH NEW ANY SIGNS, SIGN SUPPORTS, AND MARKERS DAMAGED AS A RESULT OF THE CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- EXISTING SIGNS NOT SHOWN ON THE PLANS THAT DO NOT NEED TO BE REMOVED SHALL REMAIN. IF CONSTRUCTION ACTIVITIES REQUIRE THE REMOVAL OF SIGNS, TEMPORARY SIGNS SHALL BE PLACED AS NEAR AS POSSIBLE TO THE PREVIOUS LOCATION AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE SPECIFIED IN THE PLANS, UNTIL NEW SIGNS ARE INSTALLED.
- SHOP DRAWINGS FOR ANY D-3 SIGNING WILL BE REQUIRED TO BE SUBMITTED TO ANTHONY LOPEZ (928-527-0899) FOR APPROVAL PRIOR TO INSTALLATION.
- UPON THE INSTALLATION OF EACH FINISHED SIGN, THE CONTRACTOR SHALL PLACE INFORMATION ON THE BACK OF THE SIGN AS SHOWN ON THE SIGN IDENTIFICATION DETAILS IN STD. DWG. S-13.
- THREE WORKING DAYS PRIOR TO FINAL SIGNING LAYOUT, PLEASE CONTACT ADOT NORTHERN REGIONAL SIGNING AND STRIPING SECTION AT 928-527-0899, ANTHONY LOPEZ, TO COORDINATE THE LAYOUT INSPECTIONS.



REV. NO.	COMMENT	DATE



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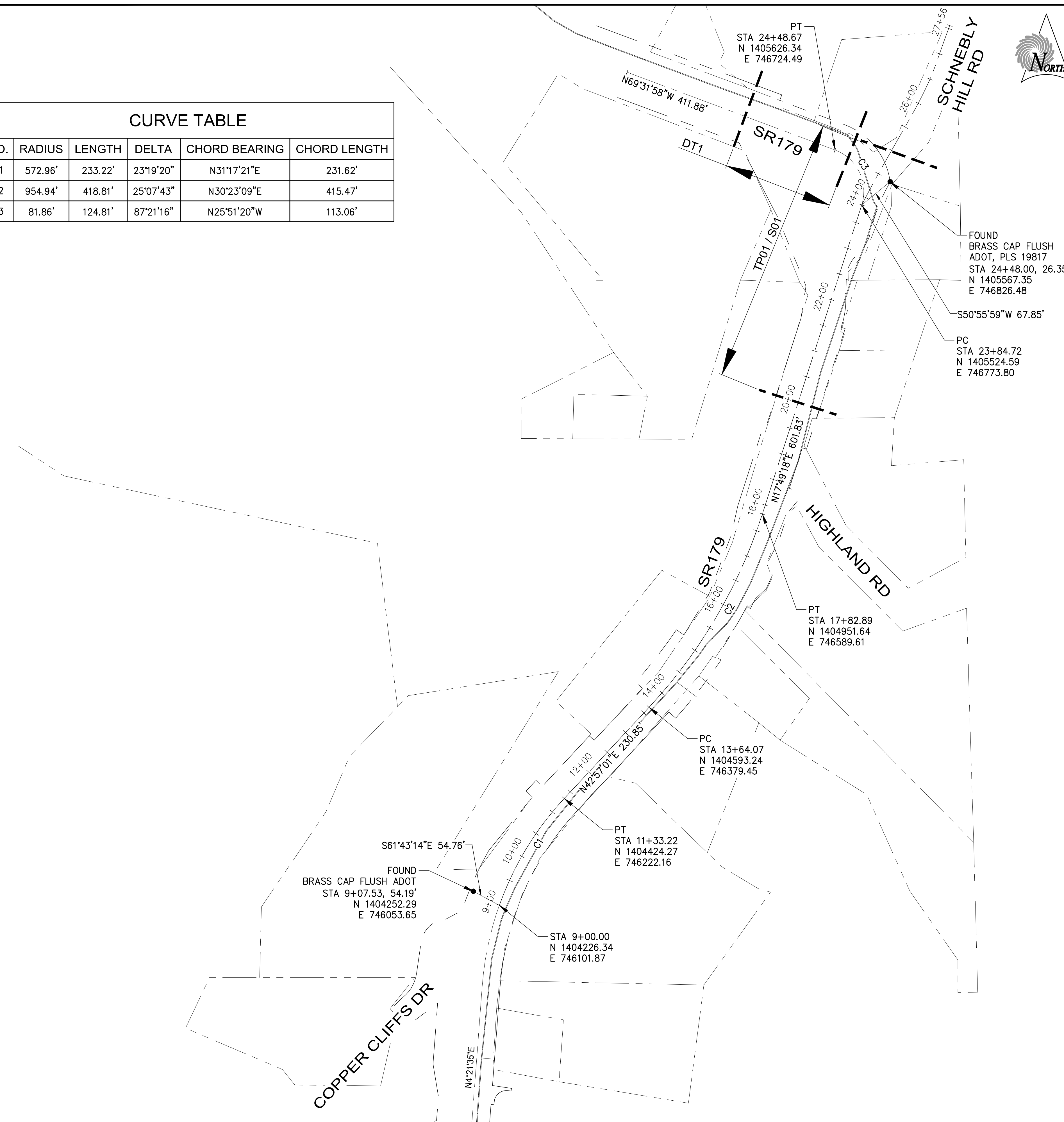
SR179

SEWER MAIN UPSIZE – PHASE II

SEI & ADOT GENERAL NOTES & QUANTITIES

SEI NO.	DESIGNED	DRAWN	CHECKED	GN	2 of 8
06831	AS	KH	AS		

CURVE TABLE					
NO.	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	572.96'	233.22'	23°19'20"	N31°17'21"E	231.62'
C2	954.94'	418.81'	25°07'43"	N30°23'09"E	415.47'
C3	81.86'	124.81'	87°21'16"	N25°51'20"W	113.06'

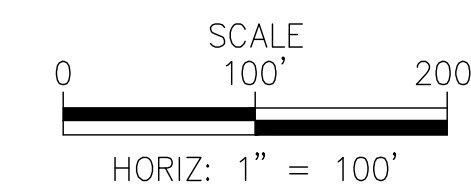


ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	NA	NOT APPLICABLE
AC	ASPHALT CONCRETE	NIC	NOT IN CONTRACT
ADEQ	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY	NO.	NUMBER
ACFC	FRICITION COARSE	OHE	OVERHEAD ELECTRIC
BC	BACK OF CURB	OPNG	OPENING
BCF	BRASS CAP FLUSH	P/L	PROPERTY LINE
BCHH	BRASS CAP IN HAND HOLE	PAE	PUBLIC ACCESS EASEMENT
BCR	BEGIN CURB RETURN	PC	POINT OF CURVATURE
BM	BENCHMARK	PCC	POINT OF COMPOUND CURVE
BTM	BOTTOM	PCC	PORTLAND CEMENT CONCRETE
CB	CATCH BASIN	PRC	POINT OF REVERSE CURVE
C/L	CENTERLINE	PT	POINT OF TANGENCY
CHB	CHORD BEARING	PUAE	PUBLIC UTILITY & ACCESS EASEMENT
CHL	CHORD LENGTH	PUE	PUBLIC UTILITY EASEMENT
CMP	CORRUGATED METAL PIPE	PVI	POINT OF VERTICAL INTERSECTION
CO	CLEAN OUT	R	RADIUS
CONC	CONCRETE	R/W	RIGHT-OF-WAY
CONST	CONSTRUCTION	RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE
CY	CUBIC YARD	RJ	RESTRAINED JOINT
D/W	DRIVEWAY	RT	RIGHT
DWG	DRAWING	S	SEWER, SLOPE, SOUTH
DTL	DETAIL	S/M	SAWCUT AND MATCH
E	EAST	SDMH	STORM DRAIN MANHOLE
ECR	END CURB RETURN	SF	SQUARE FEET
ELEV	ELEVATION	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	STA	STATION
EPA	ENVIRONMENTAL PROTECTION AGENCY	STD	STANDARD
ESMT	EASEMENT	SWK	SIDEWALK
EX, EXIST	EXISTING	SY	SQUARE YARD
FC	FACE OF CURB	TAN	TANGENT
FF	FINISHED FLOOR	TBC	TOP BACK OF CURB
FG	FINISHED GRADE	TC	TOP OF CURB
FH	FIRE HYDRANT	T, TEL	TELEPHONE
FL	FLANGE	TEMP	TEMPORARY
FND	FOUND	TL	TRUE LENGTH
FO	FIBER OPTIC	TYP	TYPICAL
FPS	FEET PER SECOND	UGE	UNDERGROUND ELECTRIC
FT	FOOT, FEET	VNAE	VEHICLE NON-ACCESS EASEMENT
G	GAS, GUTTER, GRADE	Vr	VOLUME REQUIRED
GB	GRADE BREAK	Vp	VOLUME PROVIDED
GPM	GALLONS PER MINUTE	W	WATER, WEST, WITH
HDPE	HIGH DENSITY POLYETHYLENE PIPE	XFMR	TRANSFORMER
HP	HIGH POINT		
HW	HIGHWATER		
IN.	INCH, INCHES		
INV	INVERT		
IRRIG	IRRIGATION		
L	LENGTH		
LF	LINEAR FEET		
LT	LEFT		
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS		
MH	MANHOLE		
MJ	MECHANICAL JOINT		
MUTE	MULTI-USE TRAIL EASEMENT		
N	NORTH		

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE CENTRAL, DETERMINED BY GPS OBSERVATIONS.



REV. NO.	COMMENT	DATE

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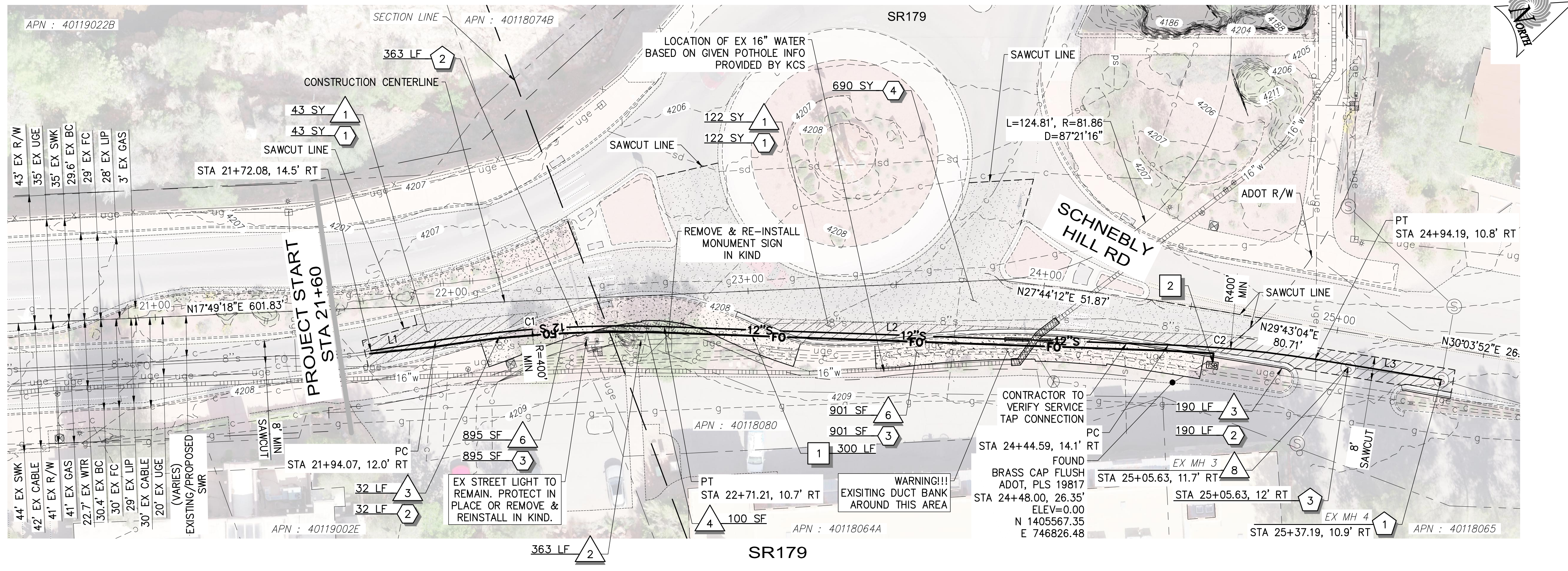
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CITY OF SEDONA

SR179
SEWER MAIN UPSIZE - PHASE II
INDEX, HORIZONTAL CONTROL, & ABBREVIATIONS

SET NO.	DESIGNED	DRAWN	CHECKED	IND	3 of 8
06831	AS	KH	AS	IND	3 of 8

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CONSTRUCTION NOTES

DEMO		
1	SAWCUT & REMOVE EXISTING PAVEMENT	165 SY
2	REMOVE EXISTING 8" SANITARY SEWER PIPE	363 LF
3	REMOVE EXISTING CURB & GUTTER	222 LF
4	REMOVE & REPLACE LANDSCAPING IN KIND	100 SF
6	REMOVE EXISTING SIDEWALK	1796 SF
8	REMOVE EXISTING MANHOLE	1 EA
PAVING		
1	REPLACE ASPHALT PAVEMENT SECTION IN KIND. SEE DETAIL D, SHEET DT3 FOR EXISTING PAVEMENT SECTION. ASPHALT CONCRETE SHALL BE PER ADOT 409 AND USE PG 70-22 BINDER.	165 SY
2	VERTICAL CURB & GUTTER (TYPE A) PER MAG STD DETAIL 220-1 WITH 3" OF ADOT CLASS II ABC.	222 LF
3	CONCRETE SIDEWALK PER ADOT STD DETAIL 1796 SF C-05.20. FINISH, COLOR & WIDTH TO MATCH EXISTING AND PER CITY OF SEDONA SPECIFICATIONS. CONTRACTOR TO SUBMIT COLOR TO COS FOR ACCEPTANCE PRIOR TO INSTALLATION OF ANY SIDEWALK.	1796 SF
4	2" MILL AND REPLACEMENT. ASPHALT SHALL BE PER ADOT 409 AGGR SPECS, SEE DETAIL D, SHEET DT3. MILL AND REPLACEMENT SHALL EXTEND 50' BEYOND ANY PAVEMENT DISTURBANCE OUTSIDE THE BIKE LANE FOR THE ENTIRE WIDTH OF THE LANE.	690 SY
SEWER		
1	CONNECT PROPOSED SEWER PIPE TO EXISTING SANITARY SEWER MANHOLE. CORE EXISTING CONCRETE MANHOLE TO ACCEPT PROPOSED PIPE. CUT PIPE FLUSH TO P. INTERIOR WALL OF MANHOLE. FILL VOIDS WITH NON-SHRINK GROUT PER MANUFACTURER'S SPECIFICATIONS. REHABILITATE AND COAT MANHOLE.	1 EA
2	INSTALL 12" SEWER PIPE (C900 PVC). DEFLECT PIPE AS NECESSARY AND WITHIN PIPE MANUFACTURER'S SPECIFICATIONS. TRENCH & BACKFILL PER MAG STD SPEC 601 AND PER DETAIL 4, SHEET DT2. TRACER WIRE PER DETAIL 3, SHEET DT2.	363 LF
3	CONNECT EXISTING SERVICE TAP TO PROPOSED SEWER PIPE PER MAG STD DETAIL 440-1, TYPE A.	1 EA

CONSTRUCTION NOTES

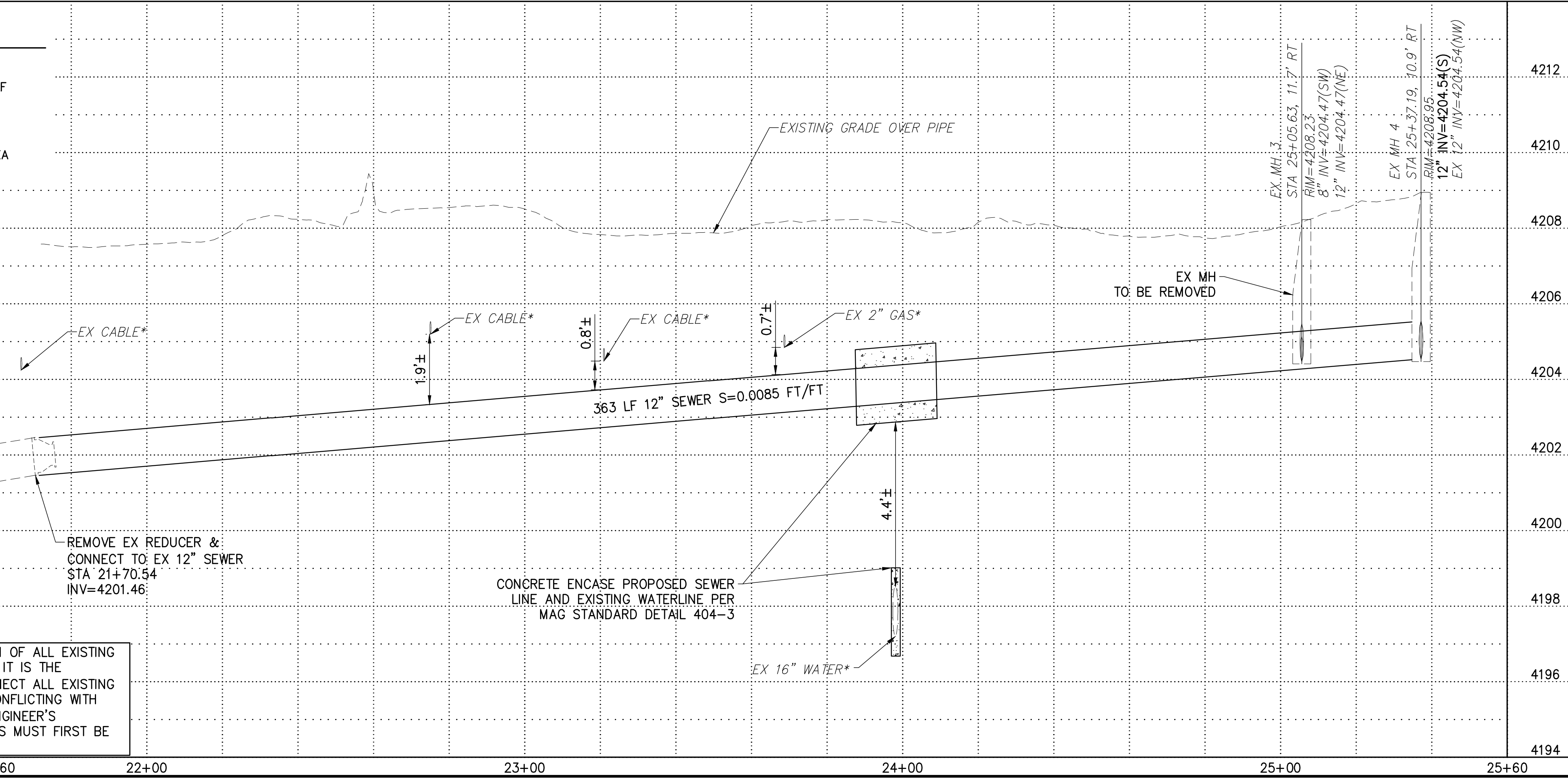
FIBER OPTIC

- 3" FIBER OPTIC CONDUIT, LENGTH PER PLAN. SHARED TRENCH PER DETAIL 4, SHEET DT2. SWEEPS TO PULL BOXES AND ALL BENDS MUST HAVE A MINIMUM 36" RADIUS. 300 LF
- # 7 PULL BOX PER ADOT STD DETAIL FM-2.06. 1 EA

NO.	RADIUS	LENGTH	DELTA	CHB	CHL
C1	400.00'	77.27'	11°04'05"	N16°52'44"E	77.15'
C2	400.00'	49.74'	7°07'30"	N25°58'32"E	49.71'

NO.	BEARING	LENGTH
L1	N11°20'41"E	22.13'
L2	N22°24'47"E	170.08'
L3	N29°32'16"E	43.08'

* CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES INCLUDING WATER AND SEWER SERVICE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND RECONNECT ALL EXISTING LATERAL CONNECTIONS. ANY UTILITIES FOUND TO BE CONFLICTING WITH THE MAIN SEWER LINE SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANY REVISION TO THESE PLANS MUST FIRST BE APPROVED BY THE ENGINEER.



GENERAL NOTES

- RIGHT-OF-WAY AND PROPERTY LINES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS BASED ON COCONINO COUNTY GIS INFORMATION. PRIOR TO CONSTRUCTION, THE RIGHT-OF-WAY AND PROPERTY LINES SHALL BE VERIFIED.
- ALL SEWER LINES SHALL HAVE AT LEAST 3 FEET OF COVER.
- SEWER PIPE LENGTHS IN PLAN VIEW ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR TO MATCHLINE.

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

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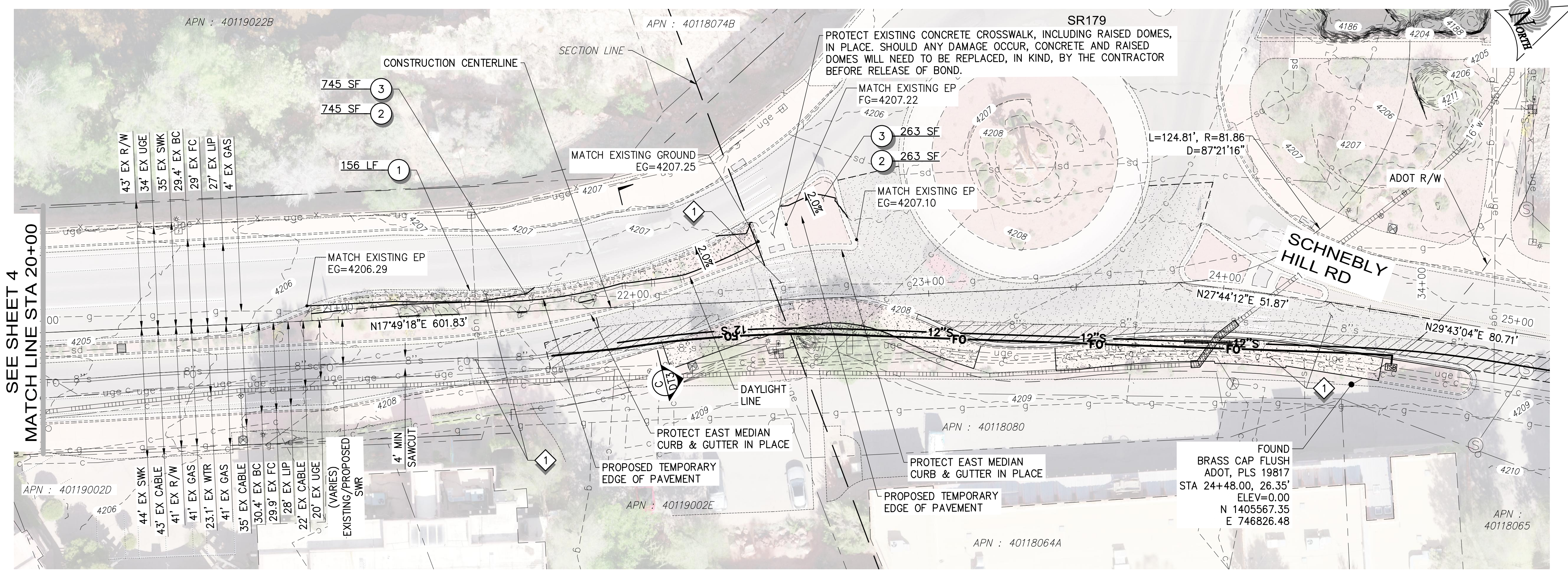
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CITY OF SEDONA

SR179
SEWER MAIN UPSIZE - PHASE II
PLAN & PROFILE

SET NO.	DESIGNED	DRAWN	CHECKED	
06831	AS	KH	AS	S01 4 of 8

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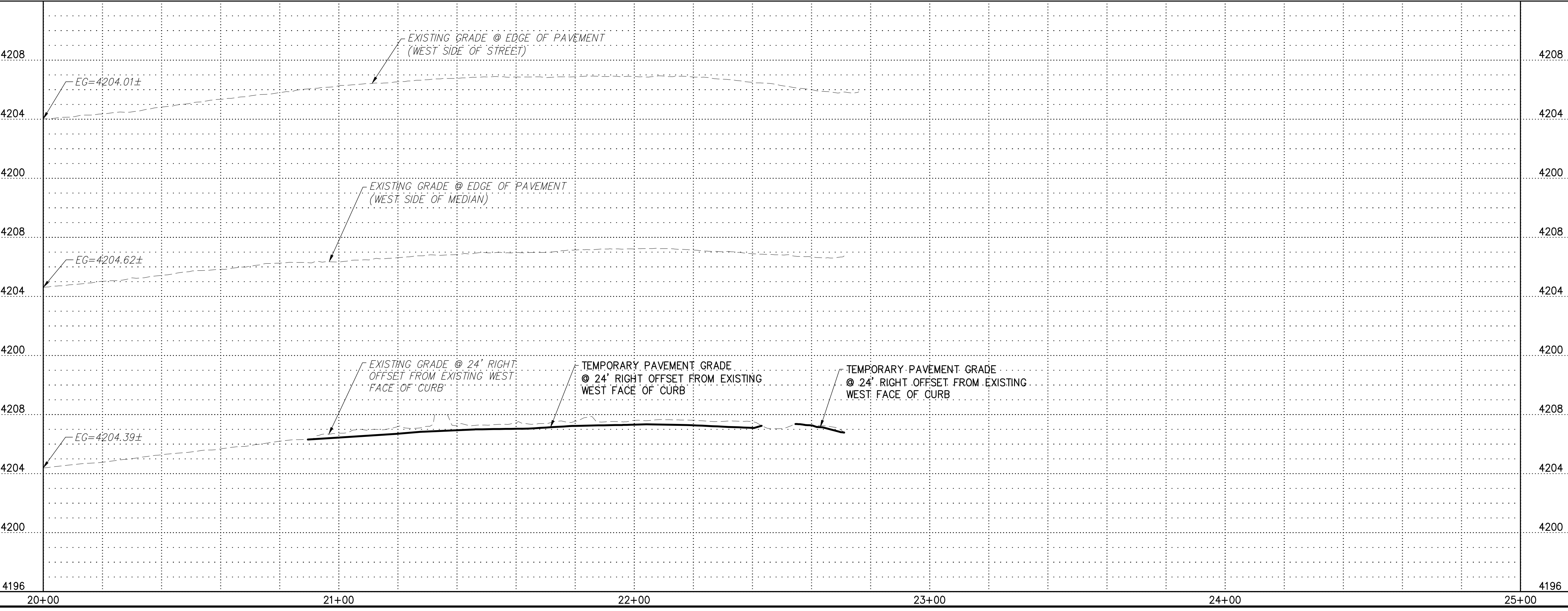


SEE SHEET 4
MATCH LINE STA 20+00

SR179

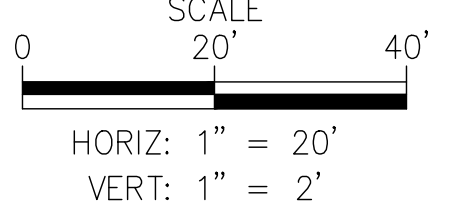
CONSTRUCTION NOTES

- TEMPORARY PAVING**
- 1 REMOVE AND REPLACE EXISTING CURB & GUTTER IN KIND. 156 LF
 - 2 REMOVE AND REPLACE EXISTING MEDIAN ISLAND LANDSCAPING IN KIND. 1008 SF
 - 3 3" AC ON 6" ABC TEMPORARY PAVEMENT SECTION. 1008 SF
- REPLACEMENTS**
- 1 REPLACE ANY STRIPING AND MEDIAN IMPROVEMENTS, INCLUDING CURB AND GUTTER AND/OR LANDSCAPING, DISTURBED BY CONSTRUCTION ACTIVITIES IN KIND. CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION SURVEY TO ESTABLISH EXISTING IMPROVEMENTS LOCATION AND TYPE THROUGH THE PROJECT WORK AREA. IMPROVEMENTS THROUGH THE PROJECT WORK AREA SHALL BE REPLACED, IN ACCORDANCE WITH ADOT STANDARDS, BASED ON PRE-CONSTRUCTION SURVEY INFORMATION AND ADOT SR-179 ASBUILTS DATED 01/12/11.



GENERAL NOTES

- 1. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS BASED ON COCONINO COUNTY GIS INFORMATION. PRIOR TO CONSTRUCTION, THE RIGHT-OF-WAY AND PROPERTY LINES SHALL BE VERIFIED.
- 2. ALL SEWER LINES SHALL HAVE AT LEAST 3 FEET OF COVER.
- 3. SEWER PIPE LENGTHS IN PLAN VIEW ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR TO MATCHLINE.



REV. NO.	COMMENT	DATE
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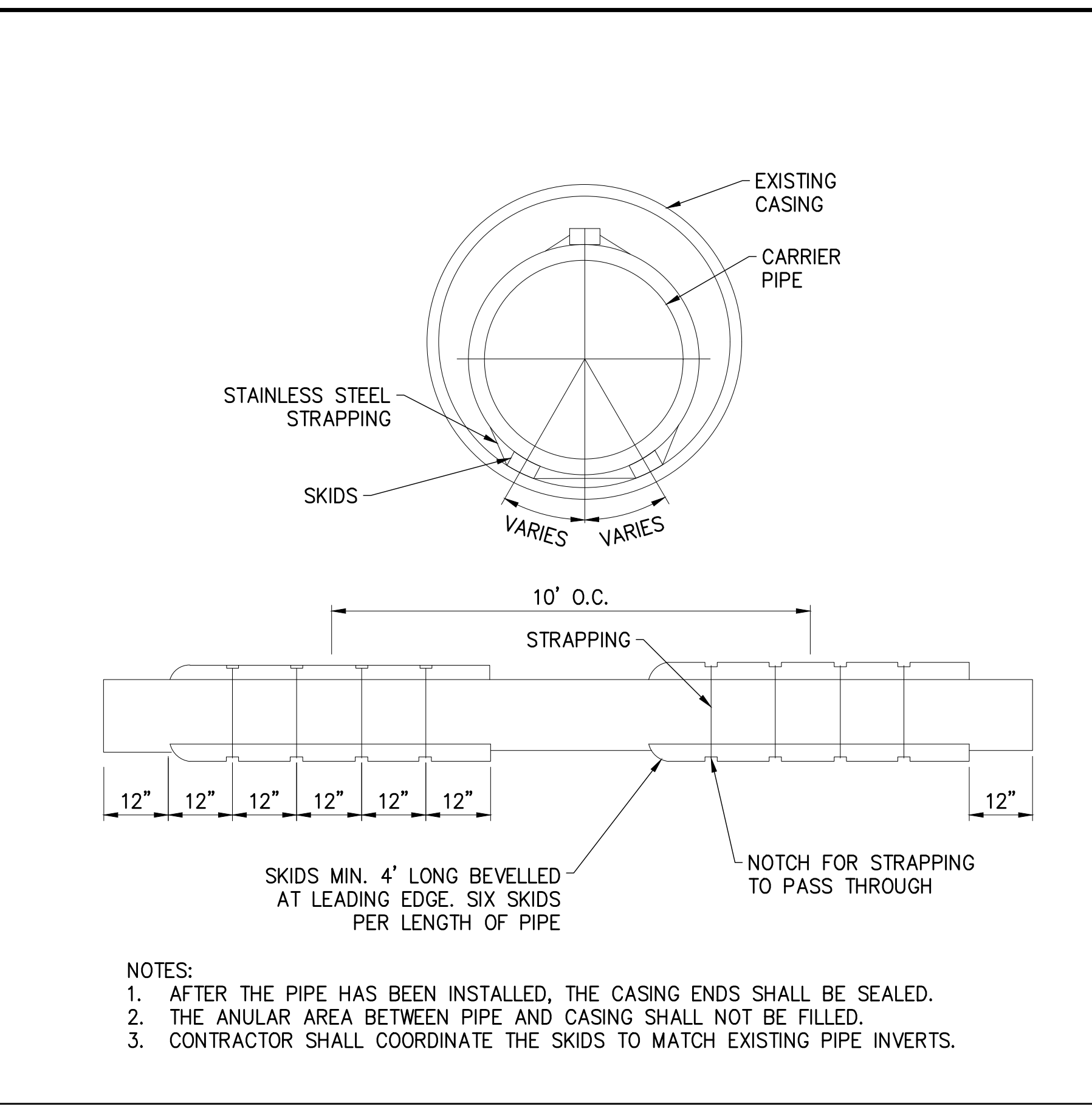
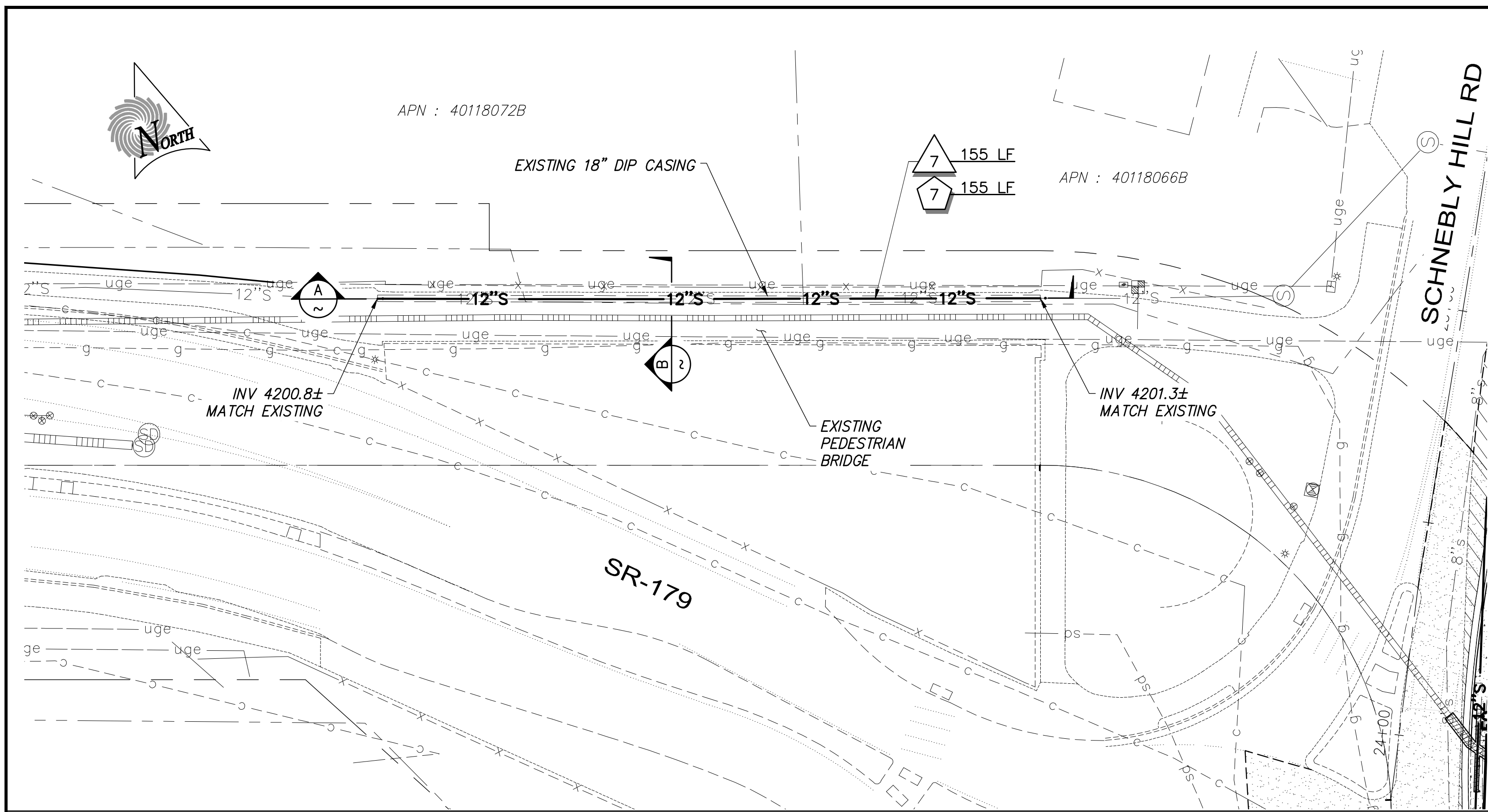
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**SR179
SEWER MAIN UPSIZE - PHASE II
TEMPORARY PAVING PLANS**

SEI NO. 06831	DESIGNED AS	DRAWN KH	CHECKED AS	TP01	5 of 8
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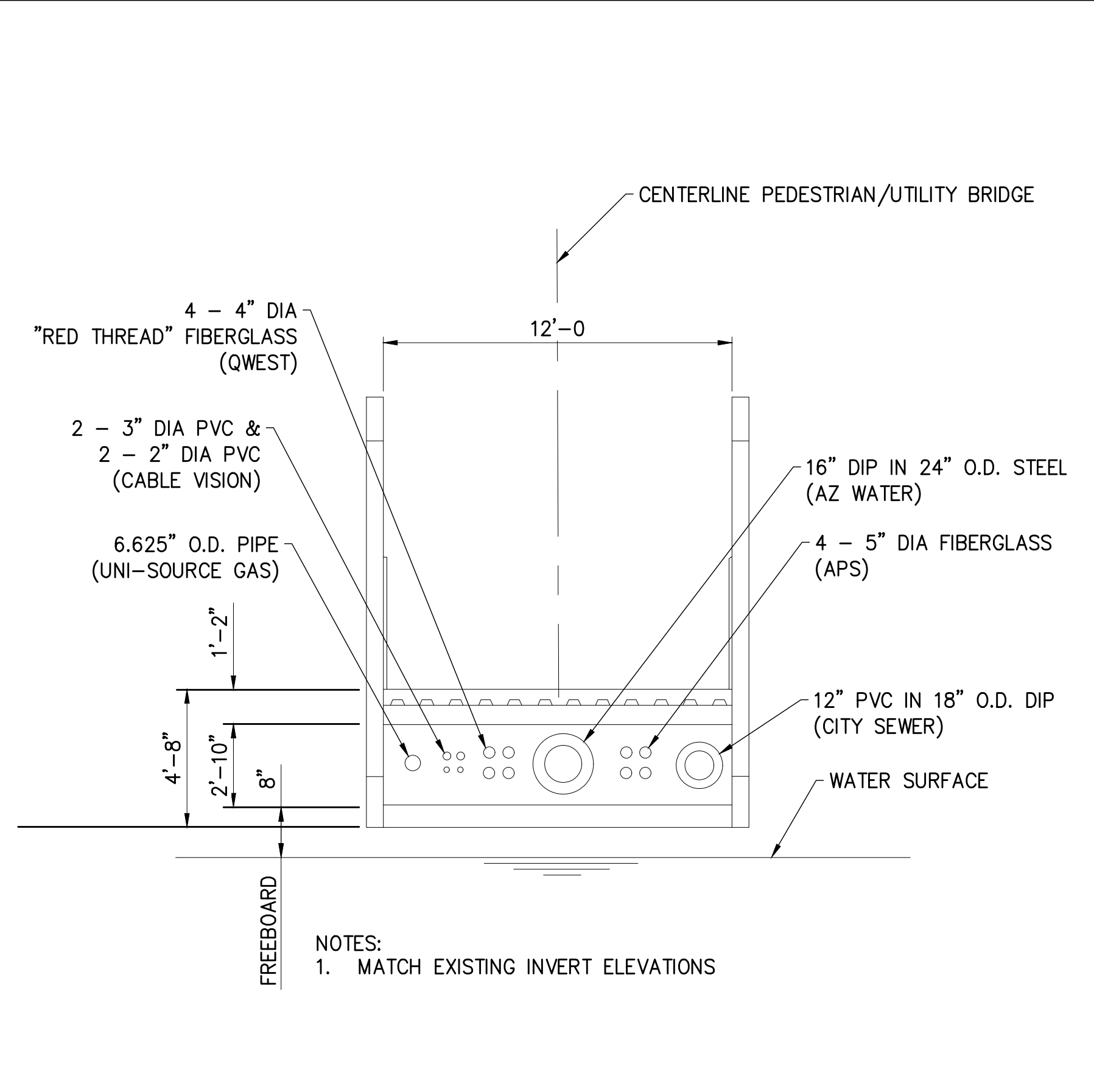
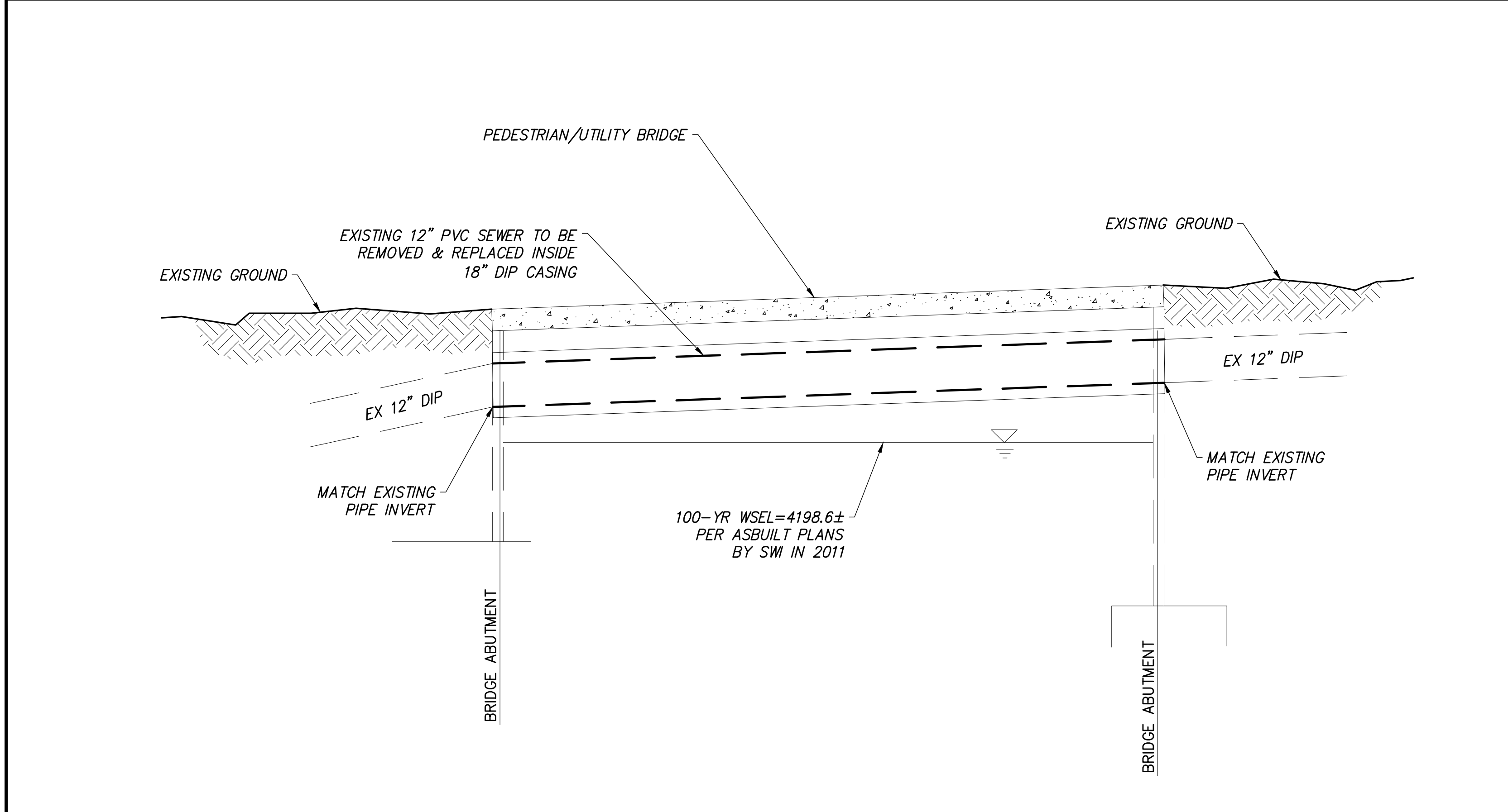
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CONSTRUCTION NOTES		
DEMO		
7	REMOVE EXISTING 12" SANITARY SEWER PIPE FROM EXISTING 18" CASING.	155 LF
SEWER		
7	INSTALL 12" SEWER PIPE (C900 PVC) IN EXISTING 18" DIP CASING PIPE. INSTALLATION PER CARRIER PIPE DETAIL 2, SHEET DT1 AND PER MANUFACTURER'S SPECIFICATIONS.	155 LF

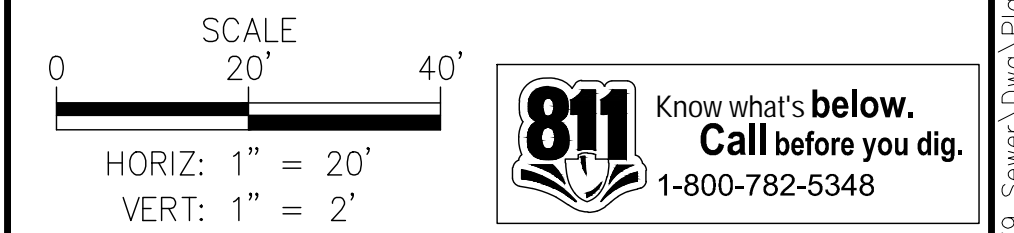
1 DETAIL - PEDESTRIAN BRIDGE SEWER PLAN VIEW
~ NOT TO SCALE

2 DETAIL - CARRIER PIPE
~ NOT TO SCALE

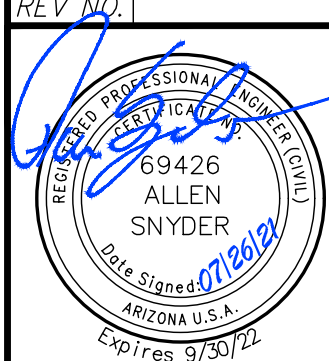


A SECTION VIEW
~ NOT TO SCALE

B SECTION - PEDESTRIAN BRIDGE UTILITIES
~ NOT TO SCALE



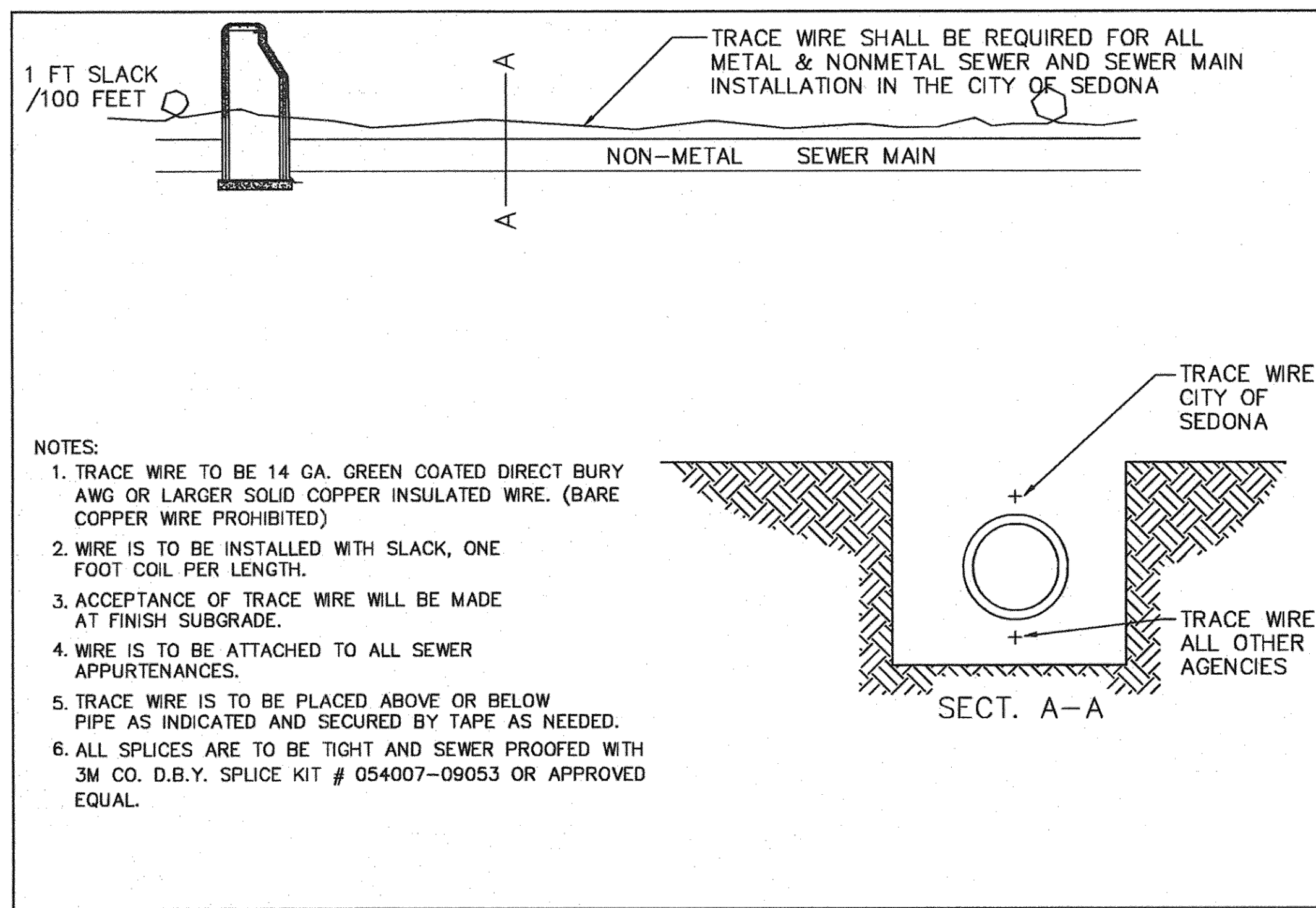
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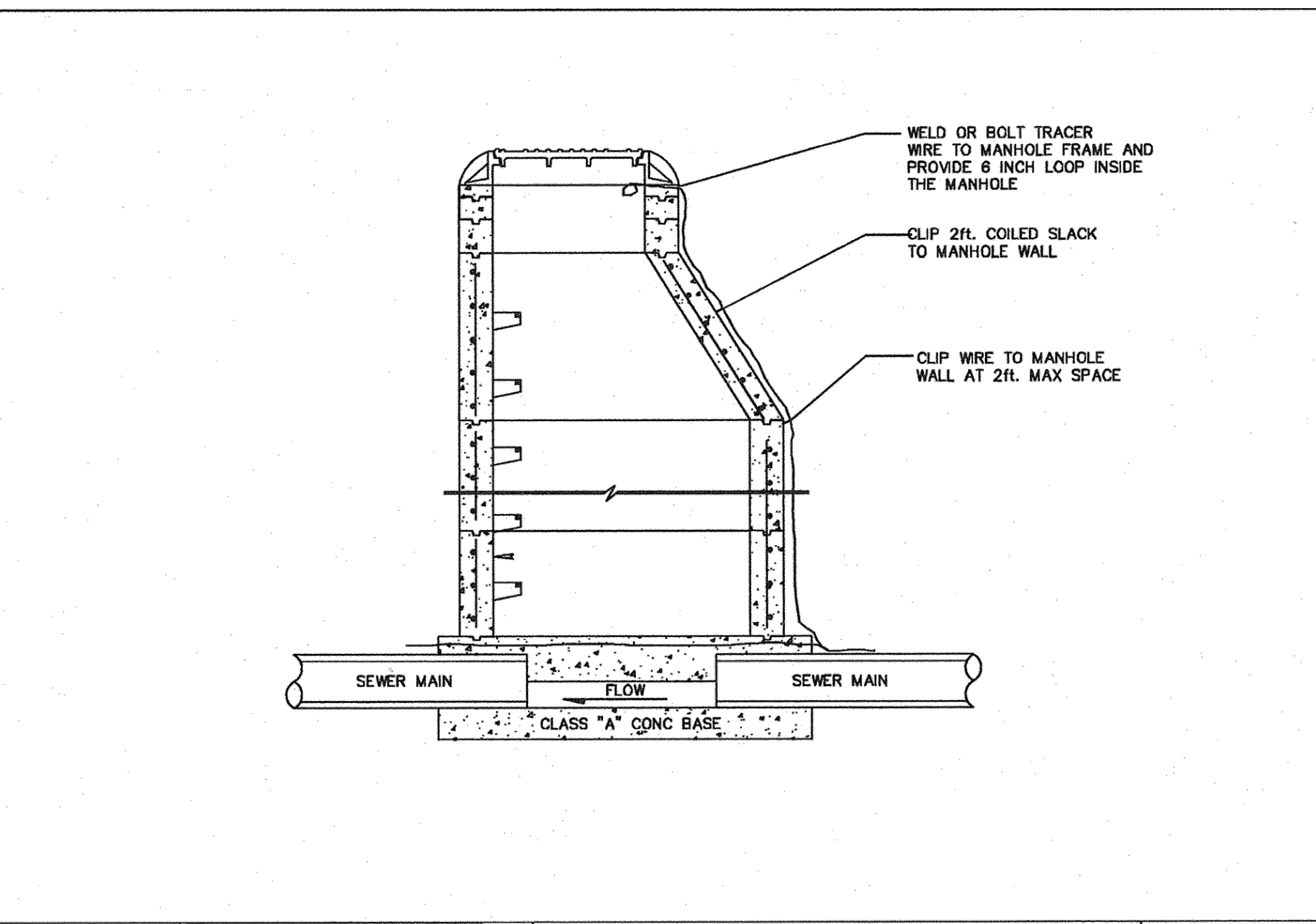
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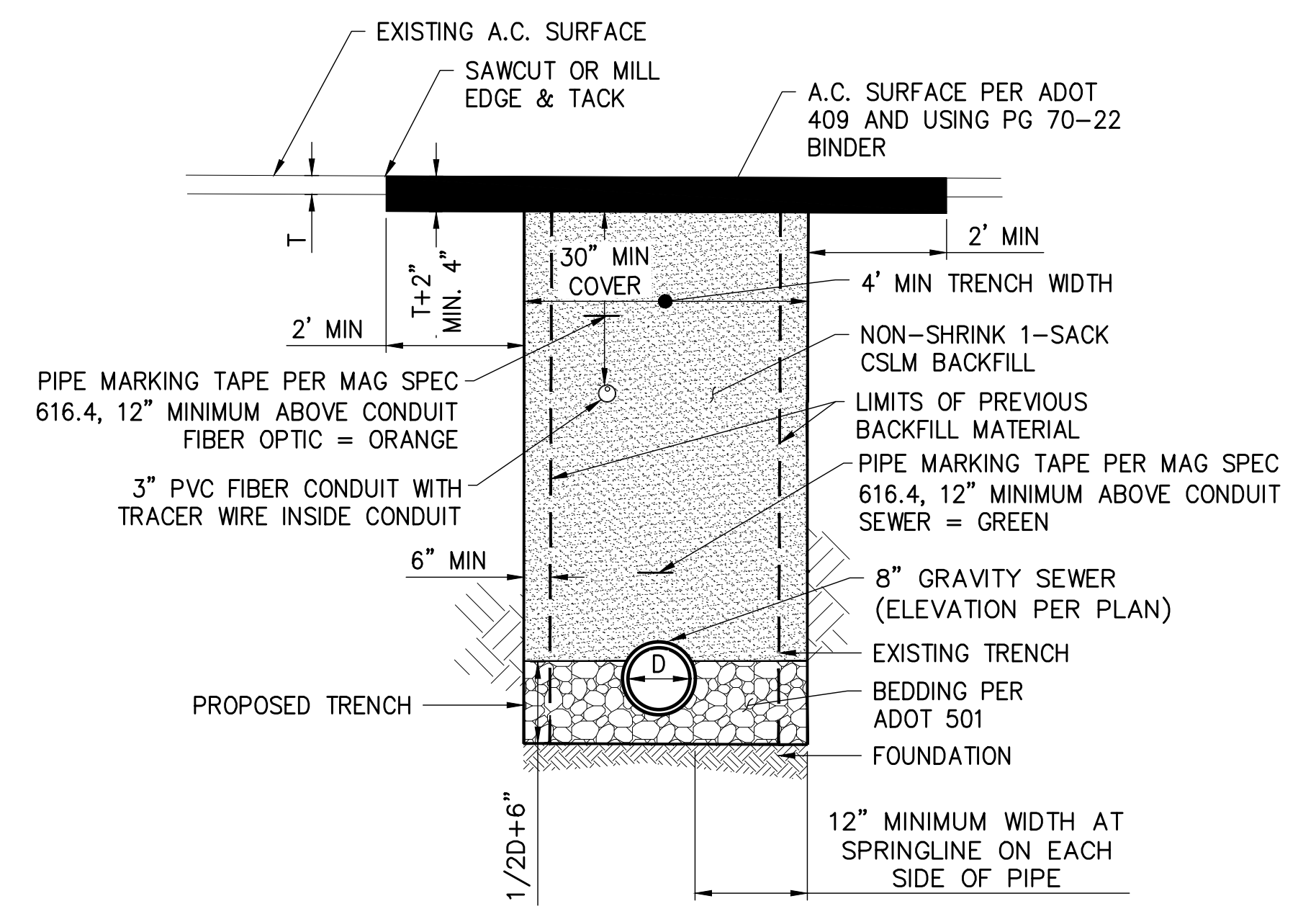
- NOTES:
1. TRACE WIRE TO BE 14 GA. GREEN COATED DIRECT BURY AWG OR LARGER SOLID COPPER INSULATED WIRE. (BARE COPPER WIRE PROHIBITED)
 2. WIRE IS TO BE INSTALLED WITH SLACK, ONE FOOT COIL PER LENGTH.
 3. ACCEPTANCE OF TRACE WIRE WILL BE MADE AT FINISH SUBGRADE.
 4. WIRE IS TO BE ATTACHED TO ALL SEWER APPURTENANCES.
 5. TRACE WIRE IS TO BE PLACED ABOVE OR BELOW PIPE AS INDICATED AND SECURED BY TAPE AS NEEDED.
 6. ALL SPLICES ARE TO BE TIGHT AND SEWER PROOFED WITH 3M CO. D.B.Y. SPLICE KIT # 054007-09053 OR APPROVED EQUAL.

SPECIAL DETAIL NO. 01	CITY OF SEDONA	SEWER TRACER WIRE DETAIL 1 OF 3	SPECIAL DETAIL NO. 01
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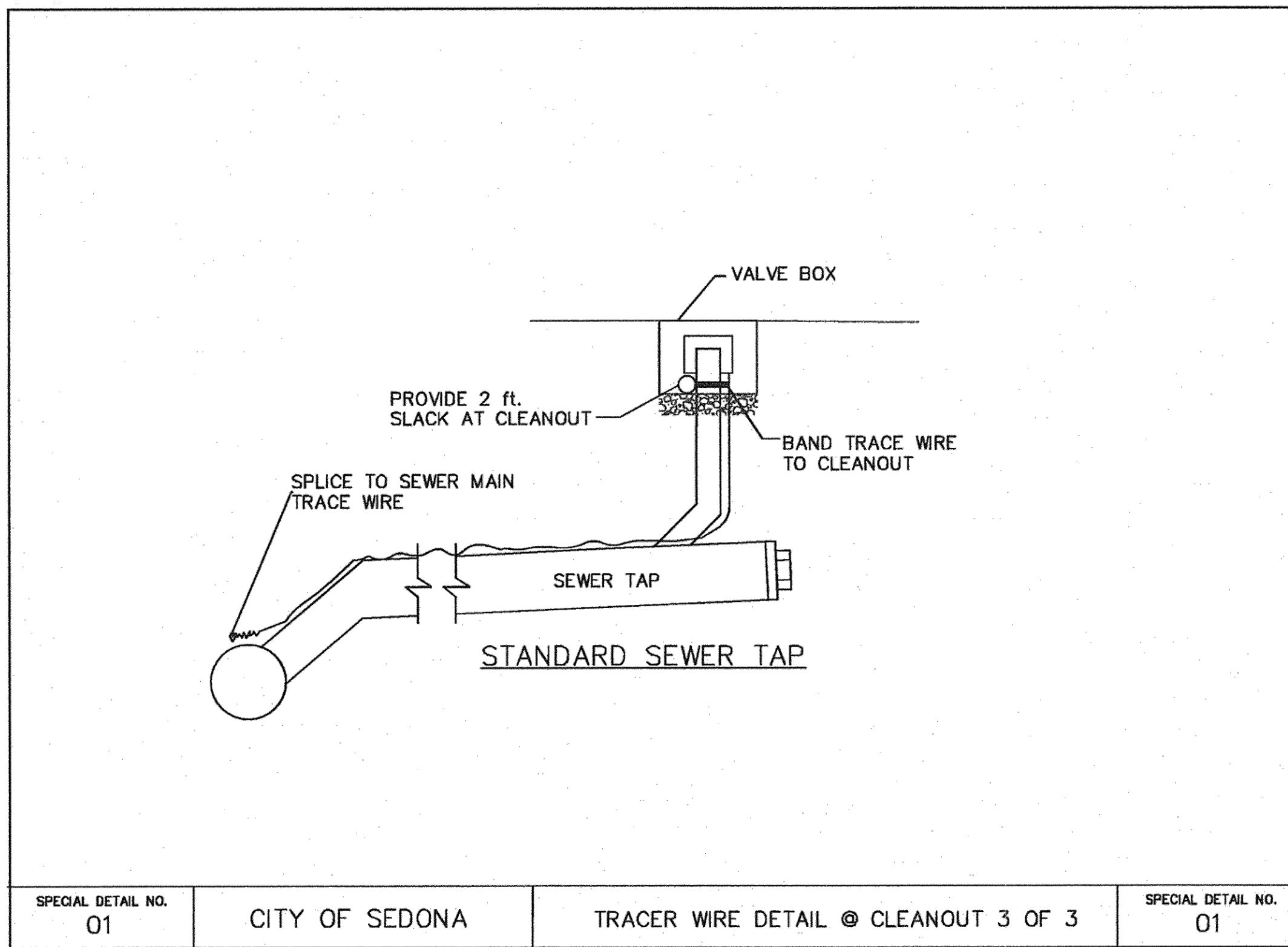
- NOTES:
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SPECIAL DETAIL NO. 01	CITY OF SEDONA	TRACER WIRE DETAIL @ MANHOLE 2 OF 3	SPECIAL DETAIL NO. 01
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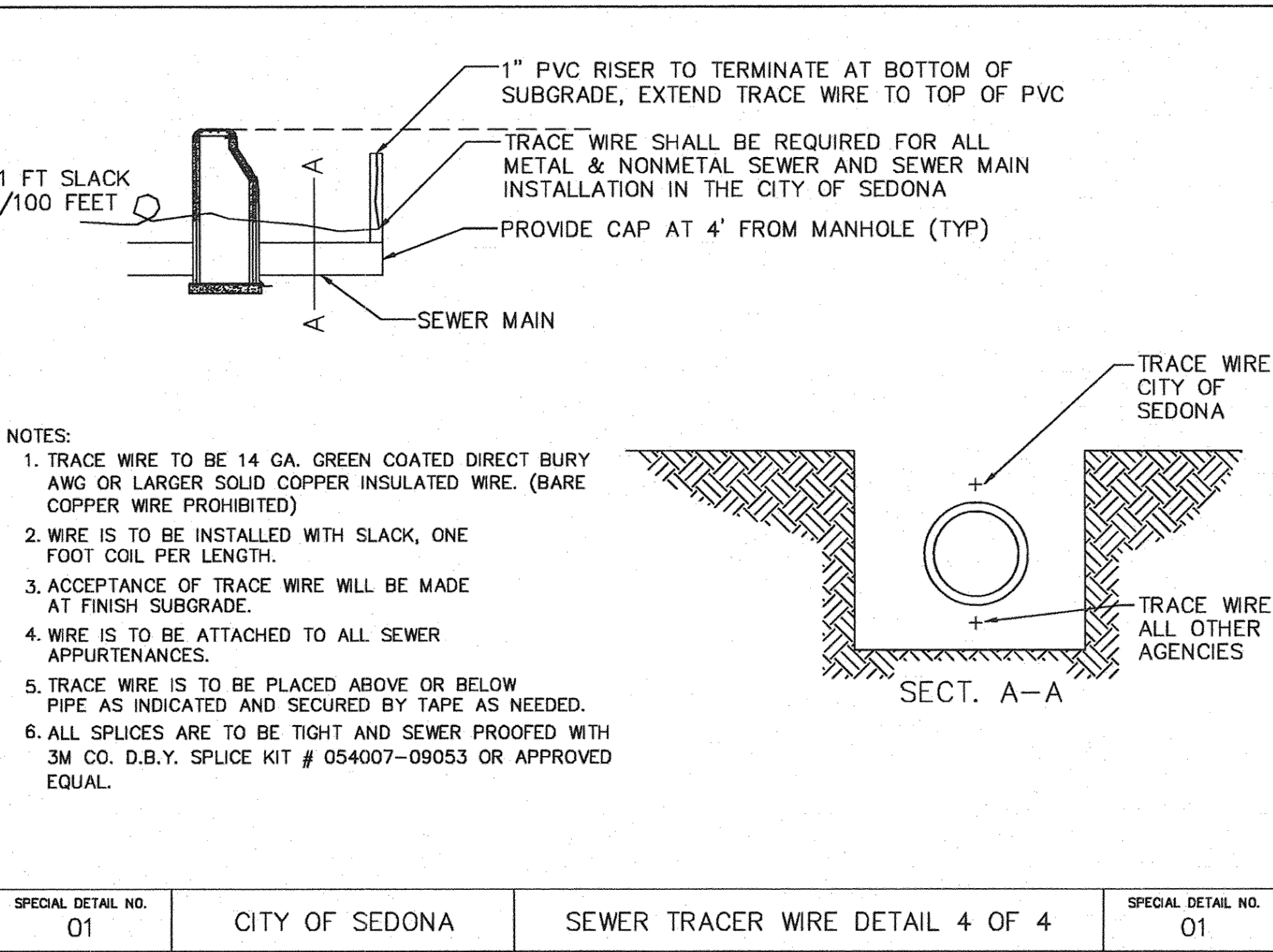
- NOTES:
1. HOT MIX A.C. SHALL BE USED FOR PERMANENT REPAIR AND SHALL BE PLACED AS SOON AS POSSIBLE.
 2. IF HOT MIX IS UNAVAILABLE, U.P.M. OR EQUIVALENT SHALL BE USE AS A TEMPORARY PATCH AND SHALL BE REPLACED WITH HOT MIX WHEN IT BECOMES AVAILABLE.
 3. PAVEMENT SHALL BE SAW-CUT VERTICALLY PRIOR TO SURFACE REPLACEMENT.
 4. TACK COAT SHALL BE USED ON ALL SURFACE JOINTS.
 5. MILL AND FILL SHALL BE APPLIED FOR FULL LANE WIDTH A MINIMUM OF 50- FEET FROM THE POINT OF LANE INTRUSION BY SAW CUTTING FOR THE REPAIR OR INSTALLATION.
 6. ALL PAVEMENT JOINTS MADE FOR THE REPAIR OR INSTALLATION SHALL BE SEALED WITH HOT Poured RUBBER. JOINT SEALING SHALL BE IN ACCORDANCE WITH CURRENT ADOT SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
 7. NON-SHRINK BACKFILL SHALL CONFORM TO SECTION 5.01-3.04 (A) (2) AND 5.01-3.04 (B) (3), FOR CEMENT-TREATED SLURRY BACKFILL OF THE ADOT STANDARD SPECIFICATIONS AND MEET THE MATERIAL REQUIREMENTS OF ADOT STANDARD SPECIFICATION 5.01-3.02 (A) (1) AND (3). THE MATERIAL MIX DESIGN SHALL BE APPROVED BY ADOT PRIOR TO USE. ALLOW TEN STATE BUSINESS DAYS FOR REVIEW.

4 DETAIL - TRENCH BACKFILL AND SURFACE REPLACEMENT
NOT TO SCALE



- NOTES:
1. TRACE WIRE TO BE 14 GA. GREEN COATED DIRECT BURY AWG OR LARGER SOLID COPPER INSULATED WIRE. (BARE COPPER WIRE PROHIBITED)
 2. WIRE IS TO BE INSTALLED WITH SLACK, ONE FOOT COIL PER LENGTH.
 3. ACCEPTANCE OF TRACE WIRE WILL BE MADE AT FINISH SUBGRADE.
 4. WIRE IS TO BE ATTACHED TO ALL SEWER APPURTENANCES.
 5. TRACE WIRE IS TO BE PLACED ABOVE OR BELOW PIPE AS INDICATED AND SECURED BY TAPE AS NEEDED.
 6. ALL SPLICES ARE TO BE TIGHT AND SEWER PROOFED WITH 3M CO. D.B.Y. SPLICE KIT # 054007-09053 OR APPROVED EQUAL.

SPECIAL DETAIL NO. 01	CITY OF SEDONA	TRACER WIRE DETAIL @ CLEANOUT 3 OF 3	SPECIAL DETAIL NO. 01
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- NOTES:
1. TRACE WIRE TO BE 14 GA. GREEN COATED DIRECT BURY AWG OR LARGER SOLID COPPER INSULATED WIRE. (BARE COPPER WIRE PROHIBITED)
 2. WIRE IS TO BE INSTALLED WITH SLACK, ONE FOOT COIL PER LENGTH.
 3. ACCEPTANCE OF TRACE WIRE WILL BE MADE AT FINISH SUBGRADE.
 4. WIRE IS TO BE ATTACHED TO ALL SEWER APPURTENANCES.
 5. TRACE WIRE IS TO BE PLACED ABOVE OR BELOW PIPE AS INDICATED AND SECURED BY TAPE AS NEEDED.
 6. ALL SPLICES ARE TO BE TIGHT AND SEWER PROOFED WITH 3M CO. D.B.Y. SPLICE KIT # 054007-09053 OR APPROVED EQUAL.

SPECIAL DETAIL NO. 01	CITY OF SEDONA	SEWER TRACER WIRE DETAIL 4 OF 4	SPECIAL DETAIL NO. 01
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3 DETAIL - COS TRACER WIRE STANDARD DETAILS
NOT TO SCALE

811 Know what's below. Call before you dig. 1-800-782-5348

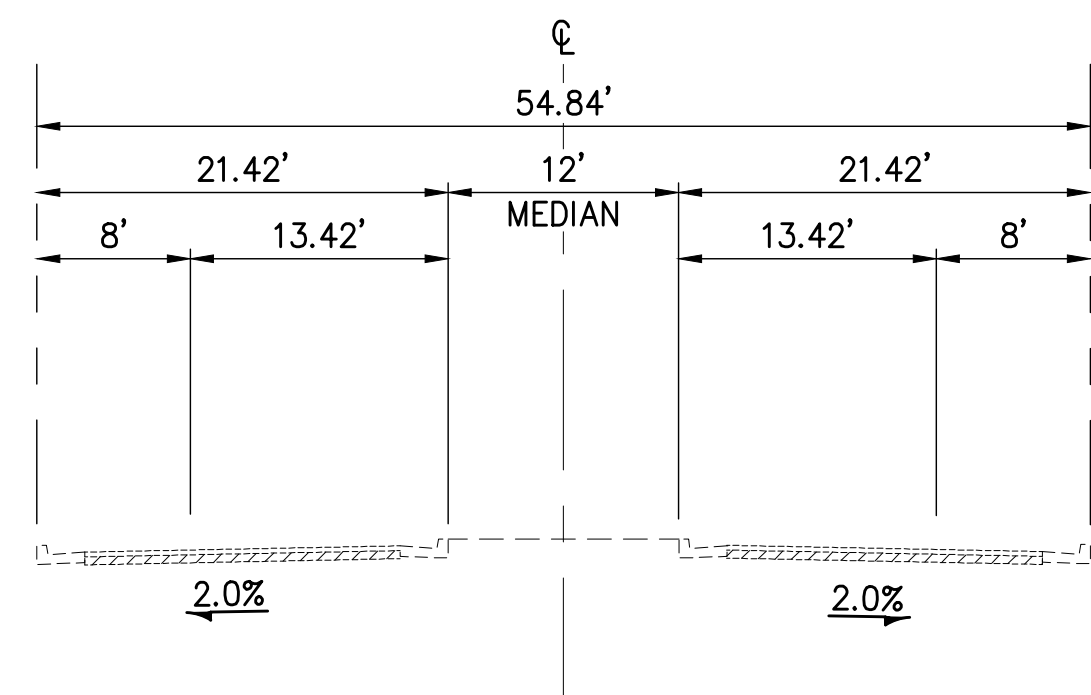
REV. NO.	COMMENT	DATE

SUNRISE ENGINEERING
2045 SOUTH VINEYARD, SUITE 101
MESA, ARIZONA 85210
TEL 480.768.8600
www.sunrise-eng.com

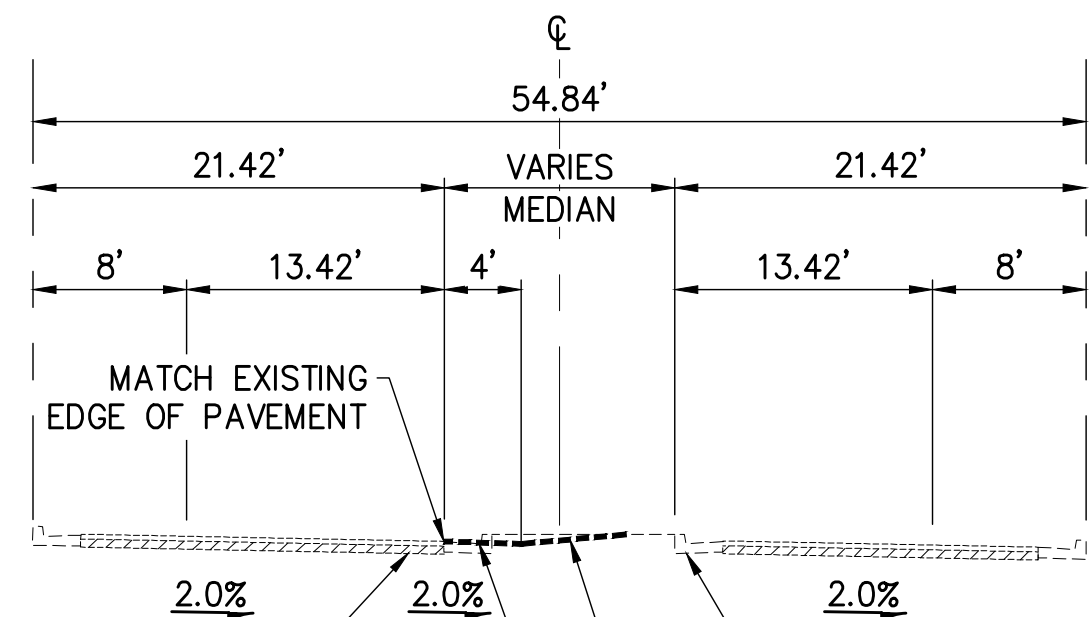
CITY OF SEDONA
SR179
SEWER MAIN UPSIZE - PHASE II
DETAILS

SEI NO. 06831	DESIGNED AS	DRAWN KH	CHECKED AS	DT2	7 of 8
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P:\Secodna\06831.000 - SR179 Sewer\Draw\Plan Sets\New Plan Set\SR179-DT2.dwg Jul 26, 2021 12:28pm kherranaraz



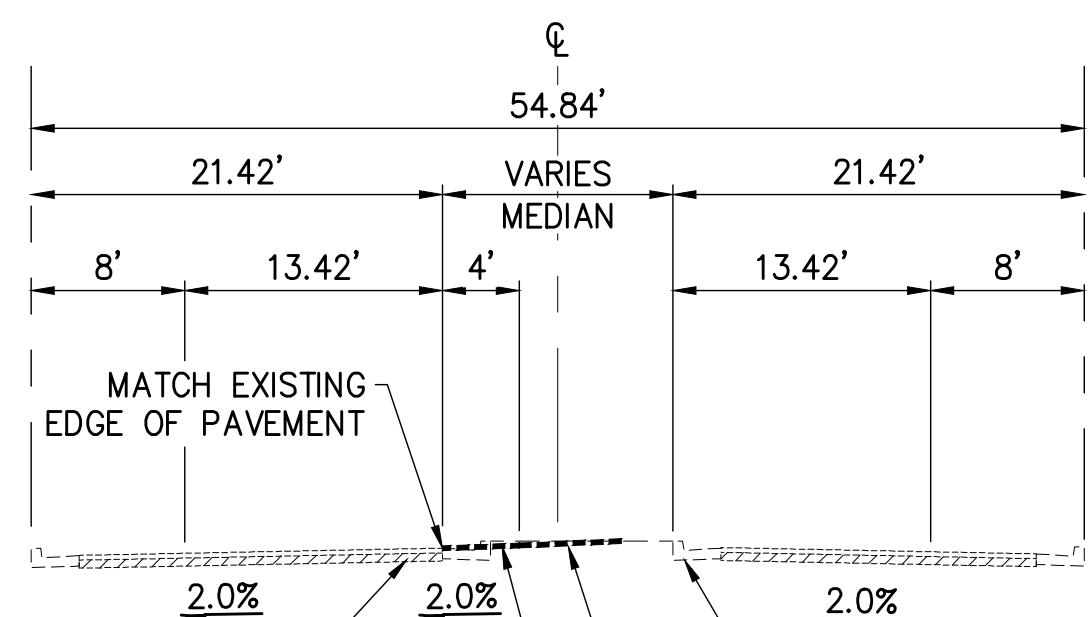
A TYPICAL SECTION - SR-179 (EXISTING)
~ NOT TO SCALE



REMOVE EXISTING CURB & GUTTER & REPLACE AFTER SEWER CONSTRUCTION IS DONE
 PROTECT EXISTING CURB & GUTTER IN PLACE
 PROPOSED TEMPORARY SURFACE FROM TEMPORARY EDGE OF PAVEMENT TO MATCH EXISTING GROUND AT 4:1 MAX SLOPE
 PROPOSED TEMPORARY PAVING

FROM STA 11+16.96 TO STA 11+59.39

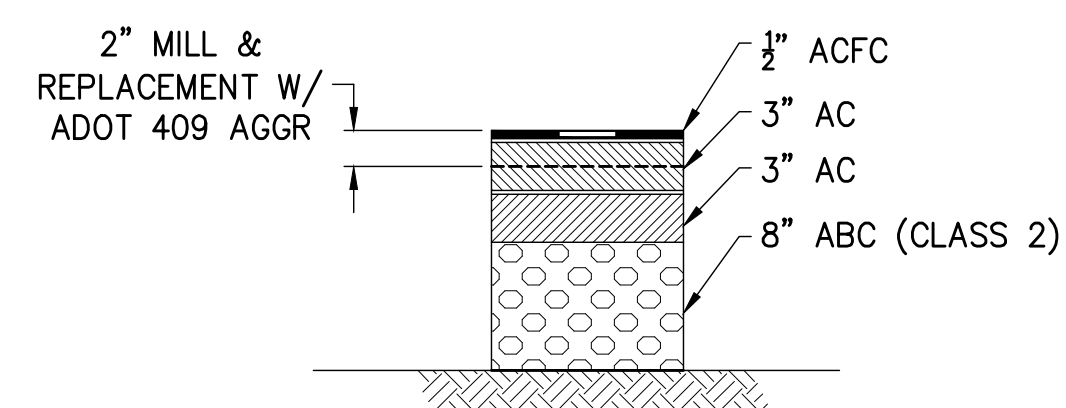
B TYPICAL SECTION - SR-179 (PROPOSED)
~ NOT TO SCALE



REMOVE EXISTING CURB & GUTTER & REPLACE AFTER SEWER CONSTRUCTION IS DONE
 PROTECT EXISTING CURB & GUTTER IN PLACE
 PROPOSED TEMPORARY SURFACE FROM TEMPORARY EDGE OF PAVEMENT TO MATCH EXISTING GROUND AT 4:1 MAX SLOPE
 PROPOSED TEMPORARY PAVING

FROM STA 11+79.60 TO STA 16+11.96, STA 17+59.96 TO STA 17+92.47 AND STA 20+89.57 TO STA 22+76.65

C TYPICAL SECTION - SR-179 (PROPOSED)
~ NOT TO SCALE



D SECTION NO.1 - SR-179
~ NOT TO SCALE



REV. NO.	COMMENT	DATE

REGISTERED PROFESSIONAL ENGINEER
 STATE OF ARIZONA
 69426
 ALLEN SNYDER
 07/08/2022
 ARIZONA U.S.A.
 Exp/Res: 9/30/22

SUNRISE ENGINEERING

2045 SOUTH VINEYARD, SUITE 101
 MESA, ARIZONA 85210
 TEL 480.768.8600
 www.sunrise-eng.com

CITY OF SEDONA			
SR179			
SEWER MAIN UPSIZE - PHASE II			
DETAILS			
SET NO. 06831	DESIGNED AS	DRAWN KH	CHECKED AS
DT3		8 of 8	