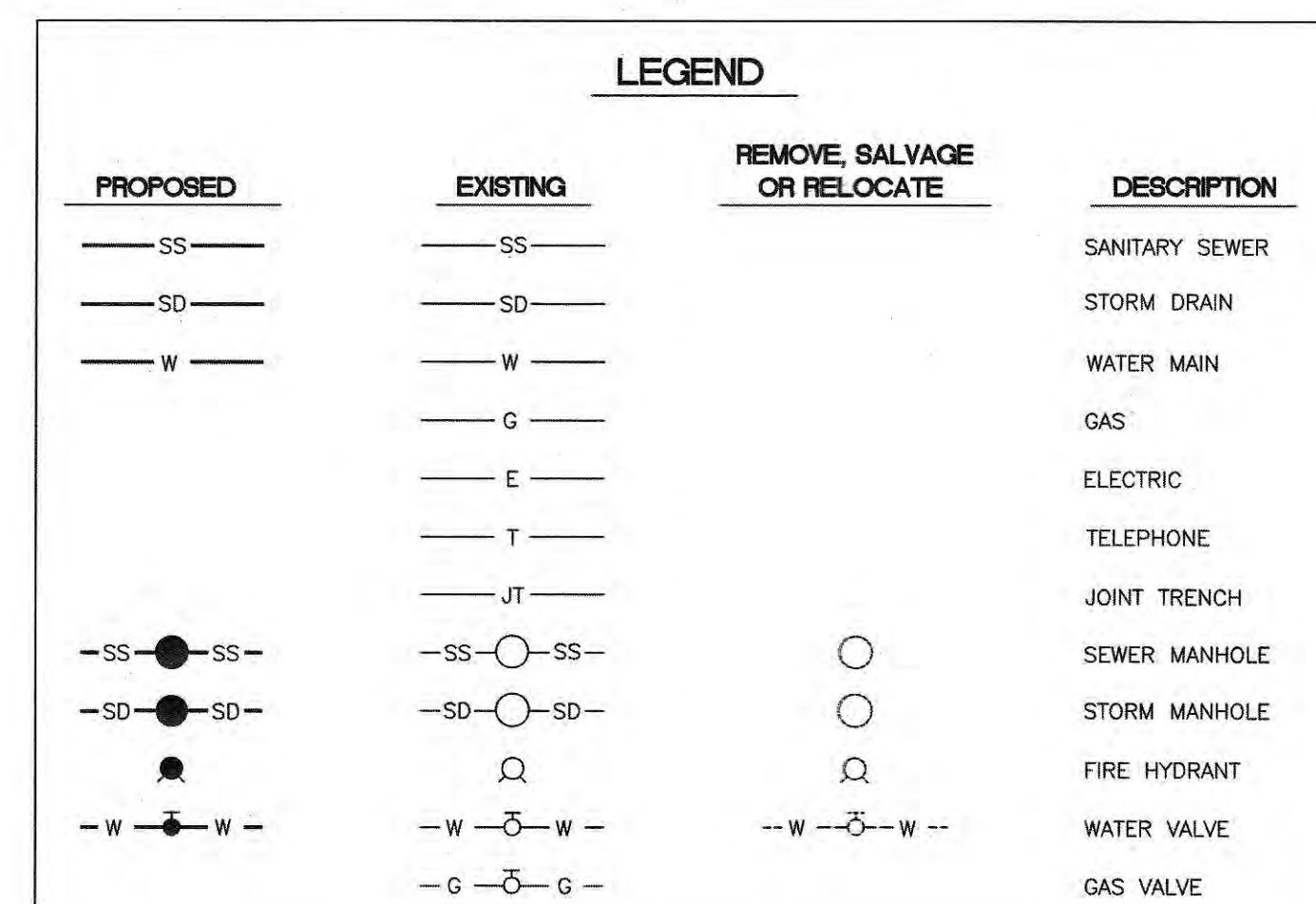


FOR USE IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS, THE
STANDARD DETAILS OF THE CITY OF MORGAN HILL AND THE STANDARD
PLANS AND SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT
OF TRANSPORTATION, MAY 2018
THIS IS A CAPITAL IMPROVEMENT PROJECT

A map of the San Francisco Bay Area. Major cities labeled include Sausalito, San Francisco, Oakland, Fremont, San Jose, and Morgan Hill. The Pacific Ocean is to the west. Major highways are shown with shields: 1, 80, 101, 280, 92, and 680. A thick black line runs from the bottom left towards the bottom right, passing near Morgan Hill, which is marked with a solid black circle. A north arrow is in the top right corner.

0	DIAMETER	LF	LINEAR FEET
(E)	EXISTING	MAX	MAXIMUM
(P)	PROPOSED	MH	MANHOLE
ABS	ACRYLONITRILE BUTADIENE STYRENE	NO	NUMBER
AC	ASPHALT CONCRETE	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
ASBC	ASBESTOS CEMENT	NTS	NOT TO SCALE
AGG	AGGREGATE	OC	ON CENTER
APPROX	APPROXIMATE	OD	OUTSIDE DIAMETER
BMP	BEST MANAGEMENT PRACTICE	PCC	PORTLAND CEMENT CONCRETE
CASQA	CALIFORNIA STORMWATER QUALITY ASSOCIATION	PL	PROPERTY LINE
CCTV	CLOSED CIRCUIT TELEVIEWED VIDEO	PVC	POLYVINYL CHLORIDE
CI	CAST IRON	R, RAD	RADIUS
CIPP	CURED-IN-PLACE PIPE	RPP	REINFORCED PLASTIC PIPE (TRUSS PIPE)
CLRP	CLEARANCE	RSC	RAPID STRENGTH CONCRETE
C/O	CLEANOUT	SD	STORM DRAIN
CONC.	CONCRETE	SS	SANITARY SEWER
DIA	DIAMETER	SDMH	STORM DRAIN MANHOLE
DO	DOWNSTREAM	SSMH	SANITARY SEWER MANHOLE
DTL	DETAIL	STA	STATION
DWG	DRAWING	STD	STANDARD
DW	DRAINWAY	STL	STEEL
EA	EACH	TCP	TRAFFIC CONTROL PLAN
ELE.	ELEVATION	TYP	TYPICAL
EQ	EQUIVALENT	UP	UPSTREAM
FT	FOOT	VCP	VITRIFIED CLAY PIPE
HDPE	HIGH DENSITY POLYETHYLENE	VER; VERT	VERTICAL
HOR; HORIZ	HORIZONTAL	W/	WITH
ID	INSIDE DIAMETER	WPCP	STORMWATER POLLUTION CONTROL PLAN
INV	INVERT		
LB	POUNDS		



NOTE:
CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY OF MORGAN HILL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF MORGAN HILL.

AERIAL IMAGERY IS INTENDED FOR GENERAL PLANNING PURPOSES ONLY. THE CITY OF MORGAN HILL CAN NOT BE HELD LIABLE FOR THE ACCURACY OF THE AREAS DEPICTED.

2023 INFLOW AND INFILTRATION SEWER REPAIR PROJECT

SCOTT CREER - CITY ENGINEER PE #58879 EXP. 06/30/2023	E.NIZU	DATE	DATE	VERT	N/A
	Y. CHO	01-09-23	2/7/23		N/A
	APPROVED			JOB NUMBER	302018



City of Morgan Hill
Public Works Department
100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282

[illegible]

E NUMBER:
NT DATE:
1/30/2023
EET NUMBER:
1 of 11

GENERAL NOTES

1.

CONTRACTOR SHALL MAINTAIN A COPY OF THE PROJECT PLANS ON THE JOBSITE AT ALL TIMES.
2.

ALL WORK SHALL CONFORM TO THE PROJECT PLANS AND THE CITY OF MORGAN HILL DESIGN AND CONSTRUCTION STANDARDS AND OTHER SPECIFICATIONS REFERENCED THEREIN.
3.

CONTRACTOR SHALL CONDUCT WORK IN ACCORDANCE WITH CAL TRANS STANDARD SPECIFICATIONS AND CITY'S SPECIFICATIONS.
4.

NO CHANGE TO THE PROJECT IMPROVEMENT PLANS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE CITY AND DESIGN ENGINEER.
5.

CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT TO THE EXTENT ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR ENGINEER.
6.

CONTRACTOR SHALL SECURE A NO FEE ENCROACHMENT PERMIT FROM THE CITY OF MORGAN HILL, ENGINEERING AND UTILITIES DEPARTMENT PRIOR TO COMMENCEMENT OF WORK.
7.

NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE AND BASED ON UTILITY MAPS PROVIDED BY THE CITY AND UTILITY OWNERS. THE UTILITY DEPTHS SHOWN ARE ESTIMATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCURATELY LOCATE ALL EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL POT HOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. REPORT POTENTIAL CONFLICTS TO THE CITY PRIOR TO EXCAVATING FOR NEW FACILITIES.
8.

CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY. CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444.
9.

CONTRACTOR SHALL NOTIFY, BY CIRCULAR, ALL BUSINESS ESTABLISHMENTS AND RESIDENCES LOCATED IN AREAS AFFECTED BY THE WORK ONE WEEK PRIOR TO START OF CONSTRUCTION. AT A MINIMUM, ALL RESIDENTS AND BUSINESS ESTABLISHMENTS WITHIN 100 FEET OF THE WORK AREAS SHALL BE NOTIFIED. A DRAFT OF THE CIRCULAR SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.
10.

ALL SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM PUBLIC RIGHT-OF-WAY.
11.

CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
12.

PRIOR TO OBTAINING WATER FROM HYDRANTS FOR CONSTRUCTION PURPOSES, CONTRACTOR MUST APPLY FOR AND OBTAIN A TEMPORARY HYDRANT METER FROM CITY OF MORGAN HILL WATER DIVISION OFFICE AND COMPLY WITH THE REQUIREMENTS.
13.

ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14.

OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE PUBLIC RIGHT-OF-WAY SHALL NOT BE PERMITTED, EXCEPT AT LOCA TION(S) APPROVED BY THE CITY.
15.

CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. ALL EXCAVATIONS SHALL BE PLATED WITH NON-SKID PLATES WHEN INACTIVE. BARRICADES WITH LIGHTS SHALL DELINEATE CONSTRUCTION ZONE.
16.

CONTRACTOR SHALL COMPLY WITH BEST MANAGEMENT PRACTICES OF CITY'S NPDES PERMIT FOR PROTECTION OF STORM WATER QUALITY.
17.

CONTRACTOR SHALL VISIT SITES IN THE PUBLIC RIGHT-OF-WAY PRIOR TO SUBMITTING BID.
18.

CONTRACTOR SHALL PROVIDE RESIDENTS AND BUSINESSES NOTICE OF ANY SANITARY SEWER SHUT DOWNS IN ACCORDANCE WITH SPECIFICATIONS.
19.

CONTRACTOR SHALL RESTORE SURFACE TO PRE-CONSTRUCTION CONDITIONS.
20.

CONTRACTOR SHALL NOTIFY THE CITY OF MORGAN HILL AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION ACTIVITY. ALL UTILITY SHUTDOWNS ARE TO BE COORDINATED THROUGH THE CITY ENGINEERING & UTILITIES DEPARTMENT. ANY TEMPORARY SUBSEQUENT RESUMPTION OF WORK REQUIRES THE NOTIFICATION OF THE CITY AND THE ENGINEER.
21.

CONTRACTOR SHALL EXCAVATE AND EXPOSE ALL UTILITY CROSSINGS OR CONNECTIONS AFFECTED BY THE WORK. ALL EXISTING UTILITIES SHALL BE ADEQUATELY SUPPORTED AND PROTECTED TO THE SATISFACTION OF THE CITY. IN THE EVENT OF DAMAGE TO ANY UTILITY OCCASIONED BY THE CONTRACTOR OPERATIONS, THE CONTRACTOR, AT HIS SOLE COST AND EXPENSE WILL IMMEDIATELY CAUSE REPAIRS TO BE MADE TO THE SATISFACTION OF THE AFFECTED UTILITY. NOTIFY THE ENGINEER OF ANY ADJUSTMENTS NECESSITATED BY WAY OF CONFLICT WITH EXISTING UTILITIES.
22.

CONTRACTOR SHALL REPLACE, AT HIS EXPENSE, ALL TREES, SHRUBS, LAWNS, FENCES, IRRIGATION SYSTEMS AND IMPROVEMENTS WHICH ARE TO REMAIN INTACT BUT HAVE BEEN REMOVED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOT REMOVE OR DAMAGE IMPROVEMENTS LOCATED WITHIN CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE CITY; OR FROM PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
23.

CONTRACTOR BEARS SOLE RESPONSIBILITY FOR THE DESIGN AND IMPLEMENTATION OF SHORING.
24.

CONTRACTOR SHALL EXERCISE DUE CARE AND CONCERN TO AVOID INJURY TO EXISTING FACILITIES IMPROVEMENTS, UTILITIES, AND PROPERTY. CONTRACTOR TO REPLACE OR RESTORE TO INITIAL CONDITIONS ANY FACILITIES, IMPROVEMENT, UTILITIES, OR OTHER PROPERTY DAMAGE OR DISTURBED AS A RESULT OF CONSTRUCTION.
25.

CONTRACTOR TO MAINTAIN A MEANS OF ACCESS TO PROPERTIES, DRIVEWAYS, AND DWELLINGS AT ALL TIMES.
26.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ALL STREET MONUMENTS, LOT CORNERS PIPES, AND GRADE STAKES DISTURBED DURING THE PROCESS OF CONSTRUCTION AT THE DIRECTION OF THE CITY.
27.

THE CONTRACTOR SHALL NEITHER WASTE NOR DEPOSIT ANY HAZARDOUS MATERIALS ON THE GRADING SURFACES OR WITHIN THE GRADED CUT AND FILL AREAS OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO GASOLINE OR DIESEL FUELS, MOTOR OILS OR TRANSMISSION FLUIDS, ANTIFREEZE, HYDRAULIC FLUIDS, LUBRICANTS, STARTING FLUIDS AND FILTERS, AND/OR CONTAINERS FOR THESE PRODUCTS. HAZARDOUS MATERIAL SPILLS THAT OCCUR AS A RESULT OF EITHER EQUIPMENT FAILURES OR VANDALISM, INCLUDING ALL ADJACENT CONTAMINATED SOILS, SHALL BE REMOVED AND TRANSPORTED TO AN ENVIRONMENTALLY APPROVED DISPOSAL SITE. ALL REMOVAL, TRANSPORTATION AND DISPOSAL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR HIS SUBCONTRACTOR.
28.

CONTRACTOR SHALL INSTALL A CONCRETE SADDLE, IN LOCATIONS IN WHICH THE VERTICAL SEPARATION BETWEEN THE SANITARY SEWER AND ANY OTHER UTILITY IS LESS THAN 12-INCHES. CONCRETE SADDLE SHALL BE INSTALLED PER DETAIL XX ON SHEET C-XX.

STORM WATER POLLUTION CONTROL PLAN (WPCP) GENERAL NOTES

1.

CONTRACTOR SHALL PERFORM HIS CONSTRUCTION AND OPERATION IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE EXISTING STORM DRAIN OR SAN FRANCISCO BAY. CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PREVENT THE DISCHARGE OF ANY MATERIAL WHICH IS NOT SOLELY STORM WATER (I.E. RAIN) TO THE STORM DRAIN SYSTEM INCLUDING CATCH BASINS, DRAINAGE CHANNELS, AND CREEKS. NON-ALLOWABLE DISCHARGE INCLUDE, BUT ARE NOT LIMITED TO, SOIL FROM STOCKPILES OR SITE DISTURBANCE, CONCRETE AND CONCRETE WASHOUT WATER, SAWCUT SLURRY, FUEL, OIL, VEHICLE FLUIDS, SOLID WASTES, AND CONSTRUCTION CHEMICALS. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION IF DIRECTED BY ENGINEER, OR IF THE CONTRACTOR OBSERVERS CONTAMINANTS AND/OR SEDIMENTS ENTERING THE STORM DRAINAGE SYSTEM, TO PREVENT FURTHER STORM WATER FROM ENTERING THE SYSTEM.
2.

CONTRACTOR SHALL PRESENT HIS PROPOSED WPCP AT THE PRE-CONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL, IN ACCORDANCE WITH THE SPECIFICATIONS.
3.

CONTRACTOR SHALL SUBMIT DETAILS AND PRODUCT DATA FOR PROPOSED BMP'S. DETAILS SHALL BE FROM THE CASQA STORM WATER BEST MANAGEMENT PRACTICE (BMP), HANDBOOK PORTAL, CONSTRUCTION, AND SHALL BE MARKED TO SHOW COMPLIANCE OR MARKED TO SHOW DEVIATION.
4.

CONTRACTOR SHALL KEEP AND MAINTAIN THE WPCP ON THE CONSTRUCTION SITE DURING THE DURATION OF THE PROJECT.
5.

CONTRACTOR SHALL PROVIDE METHODS, MEANS, AND FACILITIES REQUIRED TO PREVENT CONTAMINATION OF SOIL, WATER, OR ATMOSPHERE BY DISCHARGE OF NOXIOUS SUBSTANCES FROM CONSTRUCTION OPERATIONS.
6.

ADDITIONAL INFORMATION IN REGARDS TO WPCP REQUIREMENTS ARE LOCATED IN TECHNICAL SPECIFICATION SECTION 01600.

MATERIALS

1.

CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (T.C.P.) TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL A MINIMUM OF 5 DAYS PRIOR TO ANY WORK WITHIN AN EXISTING PUBLIC STREET, PEDESTRIAN PATH OR BICYCLE PATH. THE PLAN SHALL BE SIGNED BY A LICENSED TRAFFIC ENGINEER WHEN IT INVOLVES AN ARTERIAL STREET. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" WHILE WORKING WITHIN THE PUBLIC RIGHT-OF-WAY. ONE TRAFFIC LANE (1 0' MIN) SHALL BE OPEN TO VEHICULAR TRAFFIC DURING ALL HOURS, WEEKENDS, AND HOLIDAYS. STREET CLOSURES AND DETOURS SHALL ONLY TAKE PLACE UPON CITY ENGINEER APPROVAL AND POLICE DEPARTMENT COORDINATION.
2.

ALL TRAFFIC CONTROL DEVICES SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH PART 6 AND PART 9 OF THE LATEST EDITION OF THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
3.

ALL CONES USED FOR LANE CLOSURE AFTER NIGHTFALL SHALL BE FITTED WITH RETROREFLECTIVE BANDS (OR SLEEVES). ALL ADVANCED WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. FLASHING BEACONS SHALL BE USED DURING NIGHTTIME CLOSURES.
4.

ANY PERMANENT SIGN OR EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED, OBLITERATED OR REMOVED AS DIRECTED BY THE ENGINEER.
5.

DURING ALL CONSTRUCTION PERIODS, THE CONTRACTOR SHALL HAVE AT THE JOBSITE ALL NECESSARY TRAFFIC CONTROL DEVICES (APPROPRIATE SIGN, LIGHTED ARROW DISPLAY, CHANNELIZING DEVICES, ETC.)
6.

6.CONSTRUCTION SHALL BE SEQUENCED TO PROVIDE THE LEAST POSSIBLE ADVERSE EFFECT TO RESIDENCES.
7.

CONSTRUCTION MATERIALS SHALL BE KEPT OFF DRIVEWAYS AND PRIVATE PROPERTY AND CONSOLIDATED IN AREAS WITHIN THE CITY RIGHT-OF-WAY AND EASEMENTS DURING WORKING HOURS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8.

ALL CONSTRUCTION SIGNS SHOWN ON THE TRAFFIC CONTROL PLANS SHALL BE BLACK ON ORANGE.
9.

DURING NON-CONSTRUCTION HOURS ALL CONSTRUCTION SIGN EXCEPT W20-1 AND G20-2 SIGNS ARE TO BE COVERED. ALL DELINEATORS ARE TO BE REMOVED AND ALL OPEN TRENCHES SHALL BE COVERED WITH STEEL PLATES. ALL STEEL PLATES SHALL HAVE A MANUFACTURED SURFACE WITH A COEFFICIENT OF FRICTION THAT EQUALS OR EXCEEDS 0.35 AND SHALL BE RECESSED.
10.

ALL DISTURBED PAVEMENT STRIPING AND MARKERS SHALL BE REPLACED BY THE CONTRACTOR. ALL DISTURBED MARKINGS AND STENCILS SHALL BE REPLACED IN FULL. ALL STRIPING, MARKINGS AND STENCILS SHALL BE THERMOPLASTIC. PAVEMENT STRIPING AND MARKINGS SHALL ADHERE TO THE CAL TRANS STANDARD SPECIFICATIONS SECTIONS 84 AND 85. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. INCLUDE COST OF REPLACING PAVEMENT STRIPING, MARKINGS, AND STENCILS IN FACILITIES REQUIRING THIS WORK.
11.

PIPE BEDDING AND BACKFILL FOR THE NEW SANITARY SEWER SHALL BE IN ACCORDANCE WITH CITY DETAILS.

POTHOLING

1.

THE CONTRACTOR SHALL POT HOLE ALL UTILITIES THAT MAY CONFLICT WITH SEWER ALIGNMENT AS FIRST ORDER OF WORK AND PRIOR TO EXCAVATING AS DESCRIBED BELOW. POTHOLING DATA SHALL BE SUBMITTED TO THE CITY A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED EXCAVATION AT EACH LOCATION:
- 1.1.

OPEN TRENCH EXCAVATION LOCATIONS:
- 1.1.1.

CONTRACTOR SHALL POT HOLE ALL UTILITIES THAT MAY CONFLICT WITH THE SEWER ALIGNMENT PRIOR TO EXCAVATING. AT A MINIMUM, THIS INCLUDES ANY UNDERGROUND GAS, WATER, ELECTRICAL, AND FIBER OPTIC CABLE CROSSING THE SEWER.
- 1.2.

PIPE LINING LOCATIONS:
- 1.2.1.

CONTRACTOR SHALL LOCATE ALL CROSSING UTILITIES IN LOCATIONS WHERE EXCAVATIONS ARE REQUIRED PRIOR TO LINING THE PIPE.
- 1.3.

PIPE BURSTING LOCATIONS:
- 1.3.1.

CONTRACTOR SHALL POT HOLE ALL UTILITIES THAT MAY CONFLICT WITH THE SEWER ALIGNMENT PRIOR TO EXCAVATING. ALL UTILITIES WITHIN 3 FEET OF THE SEWER SHALL BE POT HOLED AND EXPOSED DURING BURSTING OPERATION. AT A MINIMUM, THIS INCLUDES ANY UNDERGROUND GAS, ELECTRICAL AND FIBER OPTIC CABLE.
- 1.3.2.

CONTRACTOR SHALL POT HOLE AND EXPOSE THE WATER MAIN WHERE IT IS WITHIN 5 FEET OF THE SEWER MAIN. REFER TO WATER SEPARATION NOTES FOR ADDITIONAL INFORMATION.

LIMITED SITE ACCESS

1.

SITE ACCESS IS EXTREMELY LIMITED IN LOCATIONS WHERE WORK IS OCCURRING IN SIDE YARDS, BACKYARDS, AND OUTSIDE OF THE STREET RIGHT-OF-WAY. ACCESS IS GENERALLY LIMITED TO FOOT TRAFFIC AND HAND HELD EQUIPMENT AT THESE LOCATIONS. CONTRACTOR SHALL VISIT ALL SITES AND OBSERVE EXISTING CONDITIONS FROM THE STREET RIGHT-OF-WAY DURING BIDDING TO REVIEW PROJECT LOCATIONS AND ACCESS RESTRICTIONS. CONTRACTOR SHALL CONSIDER ACCESS ISSUES AND LIMITATIONS WHEN BIDDING. NO ADDITIONAL COMPENSATION WILL BE MADE FOR DIFFICULT AND LIMITED SITE ACCESS ISSUES.

WORK WITH EASEMENT AND PRIVATE PROPERTIES

1.

SITE ACCESS IS EXTREMELY LIMITED IN LOCATIONS WHERE WORK IS OCCURRING IN SIDE YARDS, BACKYARDS, AND OUTSIDE OF THE STREET RIGHT-OF-WAY. ACCESS IS GENERALLY LIMITED TO FOOT TRAFFIC AND HAND HELD EQUIPMENT AT THESE LOCATIONS. CONTRACTOR SHALL VISIT ALL SITES AND OBSERVE EXISTING CONDITIONS FROM THE STREET RIGHT-OF-WAY DURING BIDDING TO REVIEW PROJECT LOCATIONS AND ACCESS RESTRICTIONS. CONTRACTOR SHALL CONSIDER ACCESS ISSUES AND LIMITATIONS WHEN BIDDING. NO ADDITIONAL COMPENSATION WILL BE MADE FOR DIFFICULT AND LIMITED SITE ACCESS ISSUES.
- 1.1.

THE CITY WILL PROVIDE THE CONTRACTOR WITH A LIST OF ALL PROPERTIES WHERE RIGHT OF ENTRY AGREEMENTS HAVE BEEN OBTAINED.
- 1.2.

IF THE CONTRACTOR IDENTIFIES ADDITIONAL PRIVATE PROPERTIES WHERE ACCESS IS NEEDED AND RIGHT OF ENTRY AGREEMENTS HAVE NOT BEEN OBTAINED, THE CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO SCHEDULED WORK WITHIN THE PRIVATE PROPERTY.
2.

SEE SPECIFICATION SECTION 01120 FOR ADDITIONAL REQUIREMENTS AND CONSTRAINTS.

OVERHEAD ELECTRIC

1.

LOW HANGING HIGH VOLTAGE OVERHEAD POWER TRANSMISSION UTILITIES ARE PRESENT AT PROJECT LOCATIONS.
2.

CONTRACTOR SHALL CONSIDER THE PROXIMITY OF OVERHEAD ELECTRIC UTILITIES WHEN BIDDING, AND NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ADDITIONAL WORK NECESSITATED BY THE PRESENCE OF OVERHEAD ELECTRIC UTILITIES (SMALLER EQUIPMENT, ETC.).
3.

CONTRACTOR SHALL INSURE A MINIMUM CLEARANCE BETWEEN THE POWER LINES AND THE WORK AT ALL TIMES AS DICTATED BY OSHA AND PG&E REGULATIONS.

ARBORIST NOTES AND TREE PRESERVATION

1.

NO CUTTING OF ANY PART OF PRIVATE OR CITY TREES, INCLUDING ROOTS, SHALL BE DONE WITHOUT SECURING APPROVAL AND DIRECT SUPERVISION FROM THE CITY ARBORIST.
2.

CONTRACTOR SHALL NOTIFY CITY ARBORIST 72-HOURS IN ADVANCE OF ANY WORK REQUIRING DIGGING AROUND OR WITHIN THE DRIP LINE OF EXISTING TREES.
3.

NO TRENCHING SHALL BE DONE WITHIN THE DRIP LINE OF EXISTING TREES WITHOUT THE APPROVAL OF THE CITY ARBORIST. OPEN TRENCHING IN THE ROOT ZONE OF A PUBLIC TREE IS PROHIBITED EXCEPT IN CASES WHERE THE TRENCHING FALLS OUTSIDE THE DRIP LINE OF THE TREE INVOLVED. EXCEPTIONS WILL BE ALLOWED IF, IN THE OPINION OF THE CITY ARBORIST, THE IMPACT OF TRENCHING UPON THE TREE WILL BE NEGLIGIBLE.
4.

IF INJURY SHOULD OCCUR TO ANY TREE DURING CONSTRUCTION, IT MUST BE REPORTED TO THE CITY/PROJECT ARBORIST WITHIN 6 HOURS SO THAT APPROPRIATE TREATMENTS CAN BE APPLIED. THE CITY ARBORIST SHALL BE THE SOLE JUDGE OF THE CONDITION OF ANY TREE.
5.

NO MATERIALS, EQUIPMENT, FUELS, PAINT, SPOIL, WASTE, OR WASH-OUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN THE DRIP-LINE OF A TREE. IT IS THE CONTRACTORS RESPONSIBILITY TO CLEAR VEGETATION AS REQUIRED FOR ACCESS TO THE SITES. NO ADDITIONAL COST SHALL BE PAID BY THE CITY FOR THIS WORK

GENERAL PIPELINE NOTES

1.

INDIVIDUAL SANITARY SEWER LATERALS ARE SHOWN TO THE EXTENT OBSERVED IN CCTV INSPECTION. STATIONING IS BASED ON VIDEO LOG DISTANCE AND PROJECT CONTROL LINE. ADDITIONAL LATERALS MAY EXIST, BUT WERE NOT OBSERVED DURING VIDEO INSPECTION DUE TO THE CAMERA BEING SUBMERGED UNDER WATER DURING INSPECTION, EXISTING BREAKS IN THE SEWER LINES, AND/OR MAJOR BENDS. CONTRACTOR SHALL LOCATE ALL EXISTING LATERALS BEFORE CONSTRUCTION.
2.

CONTRACTOR SHALL MAINTAIN SEWER FLOW AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATION SECTION 01531.
3.

PIPE LENGTHS AND DISTANCES IDENTIFIED ON THESE PLANS ARE HORIZONTAL LENGTHS. ACTUAL LENGTHS MAY VARY. CONTRACTOR WILL BE PAID BY THE HORIZONTAL DISTANCE AS IDENTIFIED ON THE PLANS AND SHOWN ON THE BID TAB.
4.

CONTRACTOR TO VERIFY CAPPED LATERALS ARE INACTIVE WITH CCTV INSPECTION, WHERE APPLICABLE.
5.

EXISTING SEWER MAINS AND MANHOLES MAY BE SURCHARGED AND CONTAIN DEBRIS, SLUDGE, ROOTS, GREASE, ETC. THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING, CLEANING, REMOVING AND DISPOSING OF ALL ITEMS WITHIN THE SEWER SYSTEM WHERE WORK IS TO OCCUR. CONTRACTOR SHALL REVIEW SITE SPECIFIC INFORMATION IN APPENDIX A FOR ADDITIONAL INFORMATION ABOUT DEBRIS WITHIN SEWER SEGMENTS.
6.

6.ELEVATIONS SHOWN ARE APPROXIMATE BASED ON THE CITY'S BASE MAP. PIPE SEGMENTS TO BE REPLACED OR REPAIRED SHALL BE INSTALLED AT A CONSTANT GRADE FROM THE UPSTREAM TO DOWNSTREAM LIMITS OF THE PROPOSED REPLACEMENT. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING SLOPE AND GRADE DURING CONSTRUCTION.

PIPE SPOT REPAIR NOTES

1.

SPOT REPAIR STATIONING IS BASED ON VIDEO LOG DISTANCE AND PROJECT CONTROL LINE. CONTRACTOR SHALL VERIFY LOCATION WITH INDEPENDENT VIDEO SURVEY UNDER CONTRACTOR'S DIRECTION.
2.

CONTRACTOR SHALL COMPLETE SPOT REPAIRS BEFORE INSTALLING CIPP LINING, WHERE APPLICABLE.
3.

CONTRACTOR SHALL STAKE THE LOCATION OF THE PROPOSED SPOT REPAIRS AND REVIEW THE CONSTRUCTION AND RESTORATION METHODS WITH THE CITY PRIOR TO CONSTRUCTION OF THE SPOT REPAIRS.
4.

COMPLETE SPOT REPAIRS PER DETAIL
5.

DISTURBED AREAS AT SPOT REPAIRS SHALL BE RESTORED TO EXISTING CONDITIONS.

PIPE BURSTING

1.

PIPES INDICATED TO BE BURST SHALL BE PIPE BURST PER SPECIFICATION SECTION 02345.
2.

CONTRACTOR SHALL POT HOLE UTILITIES PRIOR TO BURSTING. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY UTILITIES ARE WITHIN 3 FEET OF THE SEWER MAIN.
3.

CONTRACTOR SHALL CONFIRM LOCATION OF LATERALS DURING CCTV INSPECTION AND MARK LOCATIONS PRIOR TO BURSTING SEWER MAIN. CONTRACTOR SHALL COORDINATE W/ CITY INSPECTOR ANY LOCATIONS WITH SIGNIFICANT ISSUES THAT WOULD PREVENT RESTORING THE SITE TO PRE-CONSTRUCTION CONDITIONS.
4.

CONTRACTOR SHALL REPAIR COLLAPSED SEWER, SEWER BREAKS, AND LATERAL TAP BREAKS THAT MAY INTERFERE W/ INSTALLATION OF THE NEW SEWER MAIN PRIOR TO BURSTING.
5.

AS INDICATED IN THE LATERAL LOCATION TABLES LOCATED ON THE INDIVIDUAL PLANS SHEETS, CONTRACTOR SHALL RECONNECT ALL LATERALS PER @4 • LATERALS THAT ARE CAPPED SHALL NOT BE RECONNECTED. EXCAVATE LATERALS PRIOR TO D1 BURSTING TO LIMIT SEWER SERVICE DISRUPTIONS.
6.

CONTRACTOR SHALL CONFIRM ALL EXISTING PIPE MATERIALS, PIPE DIMENSIONS, AND SITE CONDITIONS PRIOR TO ORDERING MATERIALS FOR THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS ARE CONDUCIVE TO PIPE BURSTING.

				WORK ACCEPTED:	INSPECTOR:	DRAWN BY:	DESIGN BY:	HOR:	<div><div></div><div>City of Morgan Hill</div><div>Public Works Department</div><div>100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282</div></div>		FILE NUMBER:	
				AS-BUILT CORRECTIONS		CHECKED BY:	DATE:	VERT:			PRINT DATE:	
						APPROVED BY:	DATE:	JOB NUMBER:			1/30/23	
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REPAIR LOCATIONS / SHEET INDEX	
SHEET #	SHEET TITLE
3	REPAIR LOCATIONS / SHEET INDEX
4	KRUSE RANCH LN. PLAN & PROFILE
5	OAK HILL CT. PLAN & PROFILE
6	SPRING AVE. PLAN & PROFILE
7	DIANA AVE. PLAN & PROFILE
8	NEW MANHOLE: CREEKVIEW RD., MCKELVY LN., FLORENCE CT. CONSTRUCTION PLANS



SHEET INDEX MAP
SCALE: 1" = 1000'

NO.		DESCRIPTION	DATE	BY	Revisions
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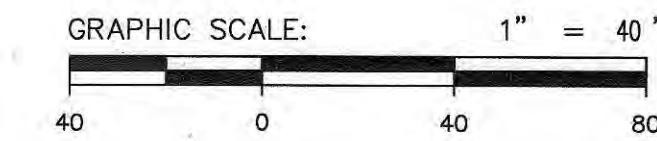
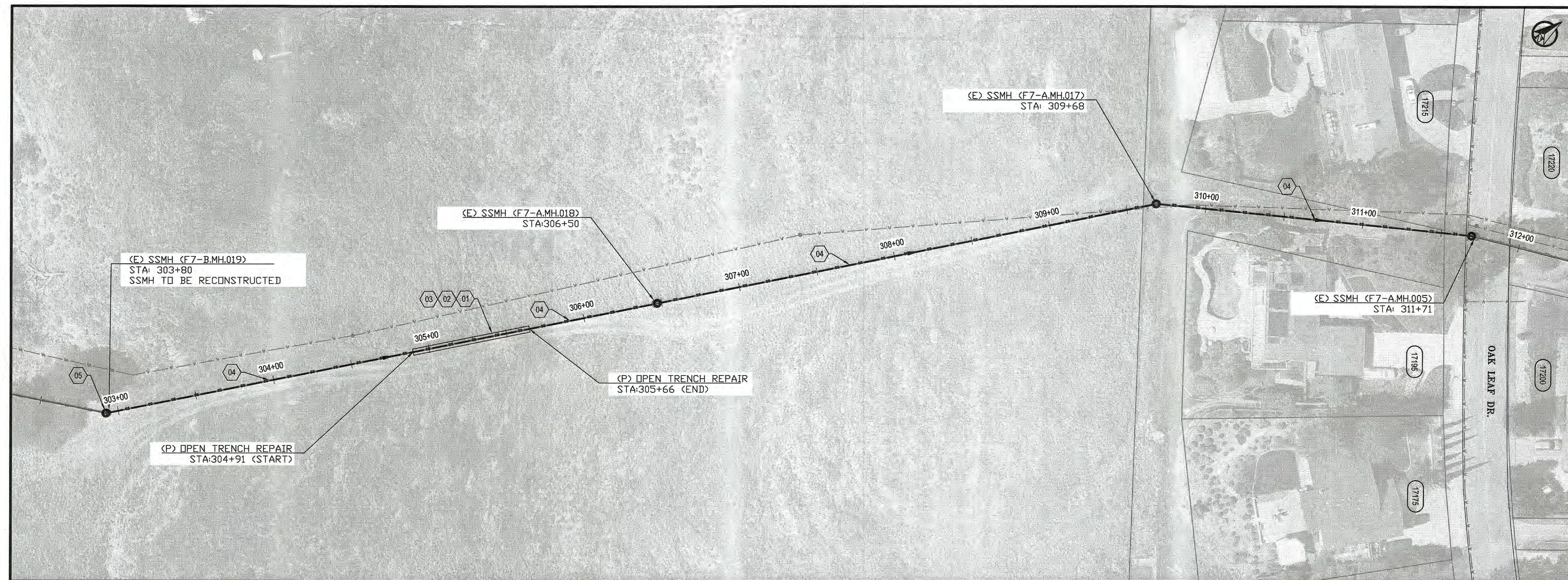
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		APPROVED:	DATE:	JOB NUMBER:
			2/17/23	302018
		SCOTT CREER - CITY ENGINEER R.C.E. #58879 EXP. 6/30/2023		



City of Morgan Hill
Public Works Department
100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282

REPAIR LOCATIONS / SHEET INDEX
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

2023 INFLOW AND INFILTRATION SEWER REPAIR PROJECT

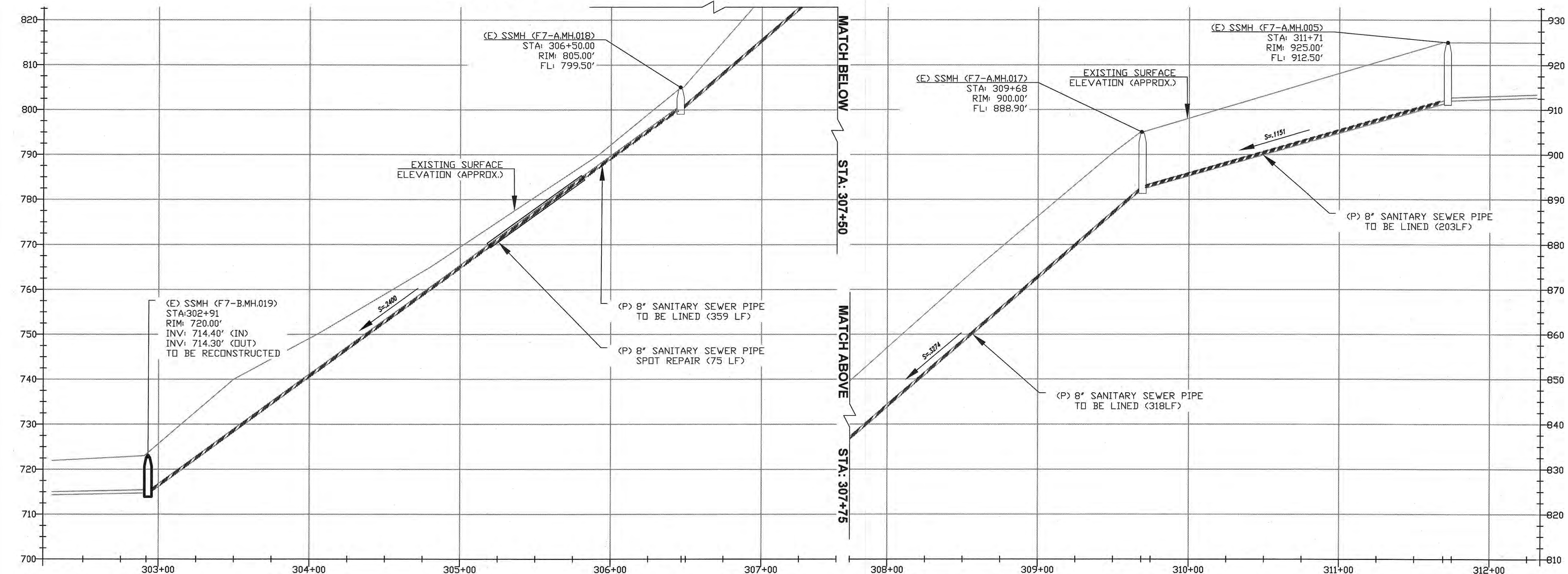


KEY NOTE	DESCRIPTION
01	INSTALL NEW SANITARY SEWER PIPE (SDR-26) OR EQUIVALENT PER CITY DETAIL S-1, ON SHEET 9.
02	INSTALL PIPE CONNECTION PER DETAIL 4, ON SHEET 11.
03	CONSTRUCT TRENCH PER CITY DETAIL U-1 AND U-2, ON SHEET 10.
04	8\"/>
05	RECONSTRUCT SANITARY SEWER MANHOLE PER CITY DETAIL S-4, ON SHEET 10.

- NOTES:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SERVICE ALERT 48 HOURS IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND OBTAIN A DIG ALERT IDENTIFICATION NUMBER PRIOR TO COMMENCEMENT OF WORK.
 - CONTRACTOR IS REQUIRED TO MAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
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 - ELEVATION OF EXISTING UTILITY IS APPROXIMATE. CONTRACTOR SHALL POTHOLE EXISTING UTILITY A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED WORK.
 - A CONCRETE SADDLE TO BE INSTALLED IF LESS THAN 8\"/>
 - ALL GREASE AND ROOTS THAT MAY IMPACT THE PIPE INSTALLATION PROCESS OR THAT MAY IMPACT THE SHAPE OF THE PIPE LINER SHALL BE REMOVED PRIOR TO PIPE INSTALLATION.
 - CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF ANY ASBESTOS PIPE AS DESCRIBED IN THE SPECIFICATIONS.

KRUSE RANCH LN. - CONSTRUCTION PLANS (STA: 303+50.00 TO STA 312+50.00)

SCALE : 1" = 40'

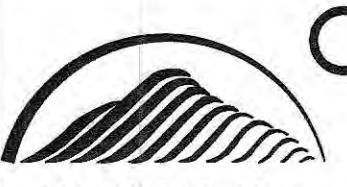


KRUSE RANCH LN. - PROFILE PLANS (STA: 303+50.00 TO STA 312+50.00)

SCALE : VER: 1" = 10' , HOR: 1" = 40'



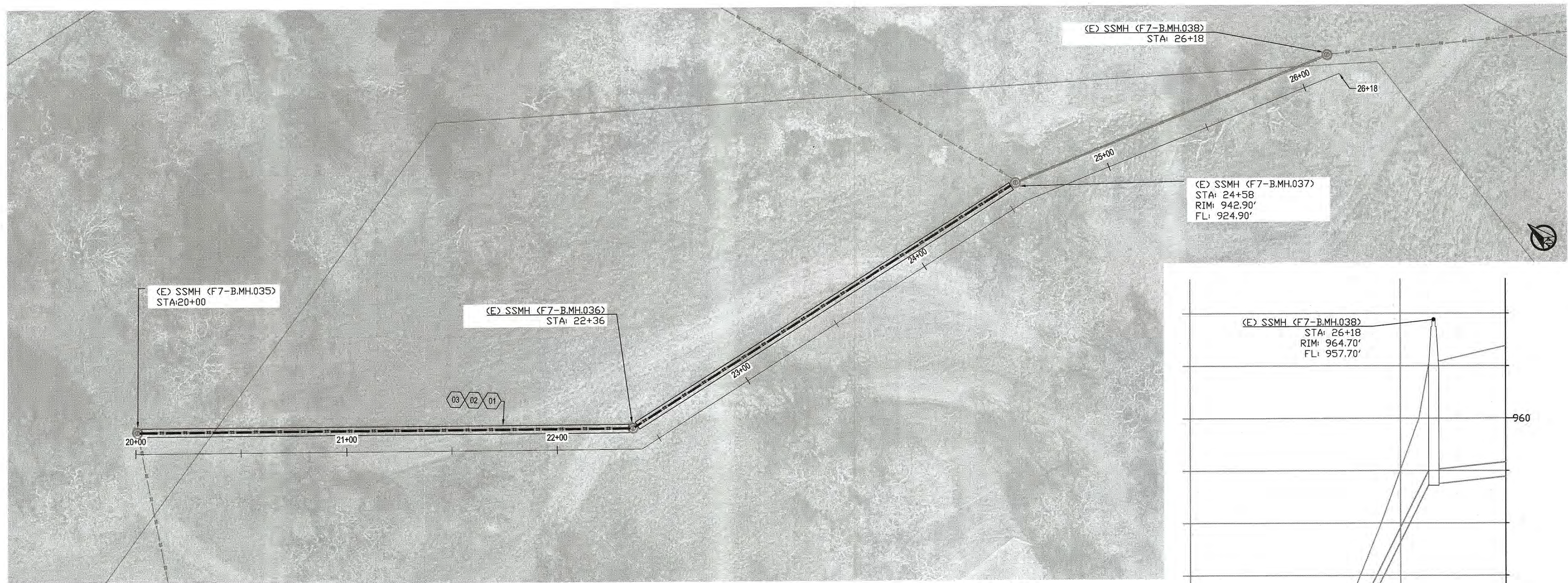
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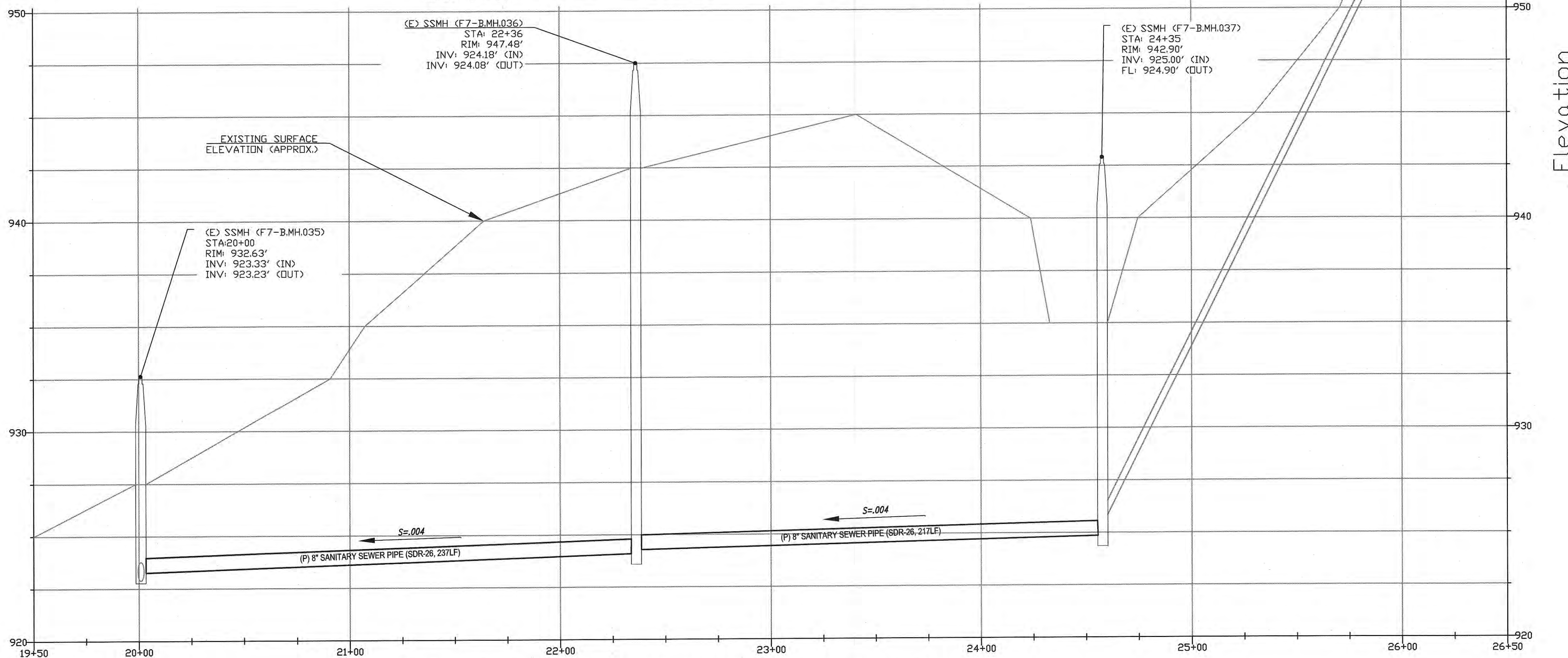
KRUSE RANCH LN. PLAN AND PROFILE
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

FILE NUMBER:
PRINT DATE: 1/30/23
SHEET NUMBER: 4 OF 11



OAK HILL CT. - CONSTRUCTION PLANS (STA: 20+00.00 TO STA 26+17.93)

SCALE : 1" = 30'



OAK HILL CT. - PROFILE PLANS (STA: 20+00.00 TO STA 26+17.93)

SCALE : VER: 1" = 3' , HOR: 1" = 30'

KEY NOTE	DESCRIPTION
01	INSTALL NEW SANITARY SEWER PIPE (SDR-26) OR EQUIVALENT PER DETAIL S-4, ON SHEET 9.
02	CONSTRUCT TRENCH PER CITY DETAIL U-1 AND U-2, ON SHEET 10.
03	INSTALL PIPE CONNECTION PER DETAIL U-2, ON SHEET 12 AND DETAIL 4, ON SHEET 11.

- NOTES:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SERVICE ALERT 48 HOURS IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND OBTAIN A DIG ALERT IDENTIFICATION NUMBER PRIOR TO COMMENCEMENT OF WORK.
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 - ELEVATION OF EXISTING UTILITY IS APPROXIMATE. CONTRACTOR SHALL POTHOLE EXISTING UTILITY A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED WORK.
 - A CONCRETE SADDLE TO BE INSTALLED IF LESS THAN 8" OF CLEARANCE EXISTS BETWEEN EXISTING UTILITY AND SANITARY SEWER PER DETAIL 5, ON SHEET C-11.
 - ALL GREASE AND ROOTS THAT MAY IMPACT THE PIPE INSTALLATION PROCESS OR THAT MAY IMPACT THE SHAPE OF THE PIPE LINER SHALL BE REMOVED PRIOR TO PIPE INSTALLATION.

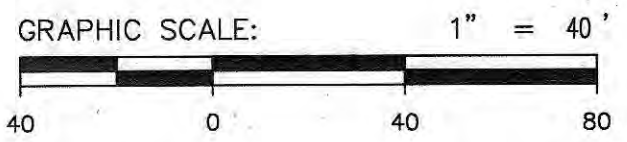
NO.	DESCRIPTION	DATE	BY
1	WORK ACCEPTED: INSPECTOR:		
2	AS-BUILT CORRECTIONS		
3	CHECKED: E.RIZO	DATE: 01/09/2023	
4	APPROVED: Y. CHO	DATE: 2/2/23	
5	SCOTT CREER - CITY ENGINEER R.C.E. #58879 EXP. 6/30/2023		

City of Morgan Hill
Public Works Department
100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282

OAK HILL CT. PLAN AND PROFILE
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

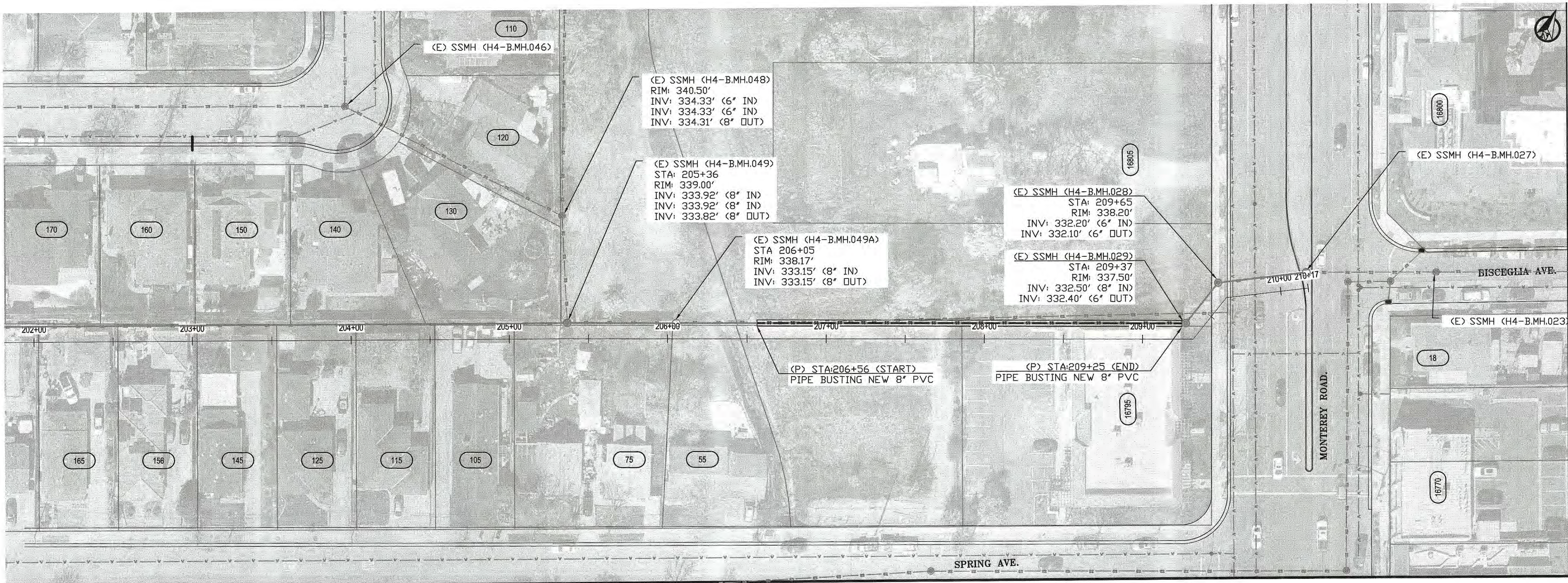
811
Know what's below.
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FILE NUMBER:
PRINT DATE:
1/30/23
SHEET NUMBER:
5 OF 11

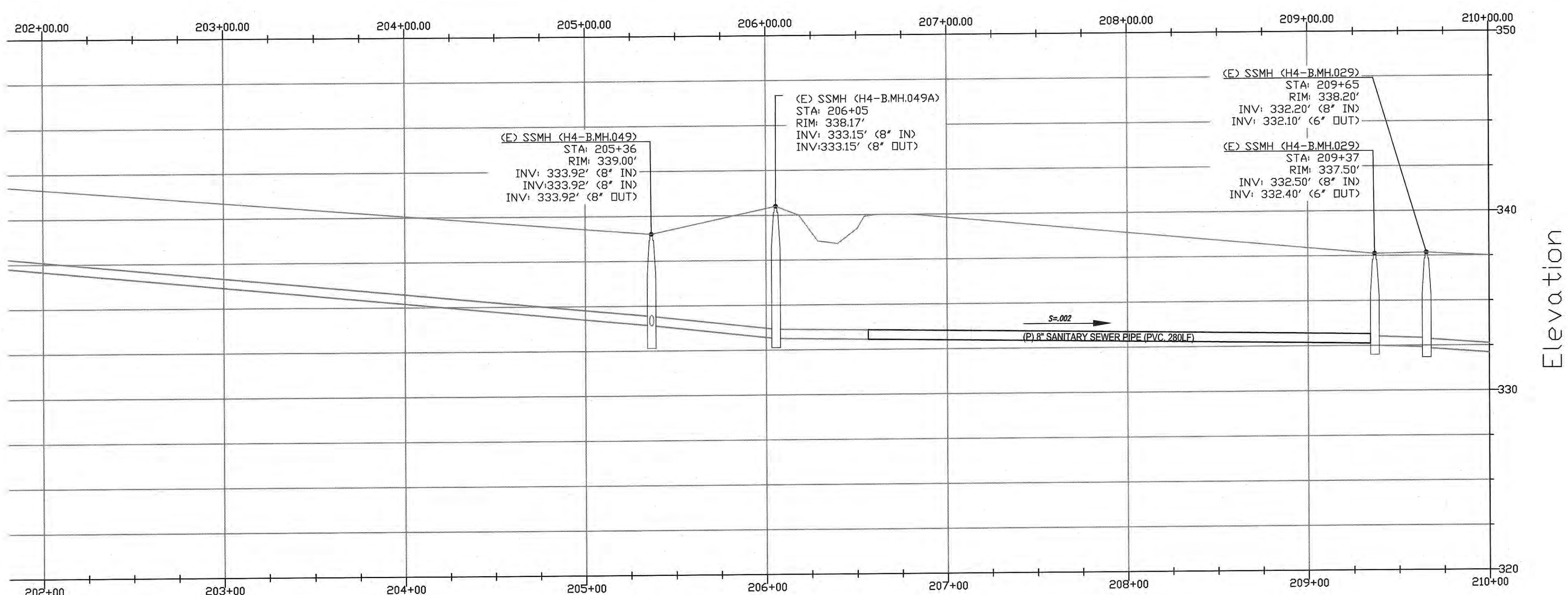


KEY NOTE	DESCRIPTION
01	INSTALL NEW SANITARY SEWER PIPE (SDR-26) OR EQUIVALENT PER DETAIL S-1, ON SHEET 9.
02	PIPE BURST EXISTING 6" RCP WITH NEW 8" PVC PIPE PER SPECIFICATIONS.
03	CONSTRUCT TEMPORARY MANHOLE FOR PIPE BUSTING OPERATION PER DETAIL 3, ON SHEET 11.
04	RECONNECT SANITARY SEWER LATERALS PER DETAIL 4, ON SHEET 13 AND DETAIL S-4, ON SHEET 10.

- NOTES:
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 - A CONCRETE SADDLE TO BE INSTALLED IF LESS THAN 8" OF CLEARANCE EXISTS BETWEEN EXISTING UTILITY AND SANITARY SEWER PER DETAIL 5, SHEET C-11.
 - ALL GREASE AND ROOTS THAT MAY IMPACT THE PIPE INSTALLATION PROCESS OR THAT MAY IMPACT THE SHAPE OF THE PIPE LINER SHALL BE REMOVED PRIOR TO PIPE INSTALLATION.



SPRING AVE. - CONSTRUCTION PLANS (STA: 201+50.00 TO STA 209+83.93)
SCALE: 1" = 40'



SPRING AVE. - PROFILE PLANS (STA: 201+50.00 TO STA 209+83.93)
SCALE: 1" = 3' VERT, 1" = 40' HOR



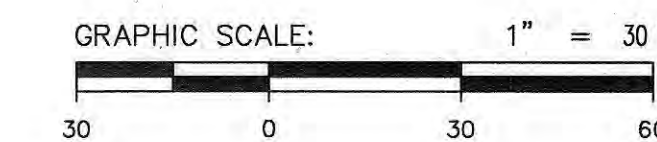
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								Y. CHO	DATE:	01/09/2023	VERT:	1/30/23
								APPROVED:	DATE:	2/7/23	JOB NUMBER:	SHEET NUMBER:
								SCOTT CREER - CITY ENGINEER, R.C.E. #58879 EXP. 6/30/2023			302018	6 OF 11

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Revisions

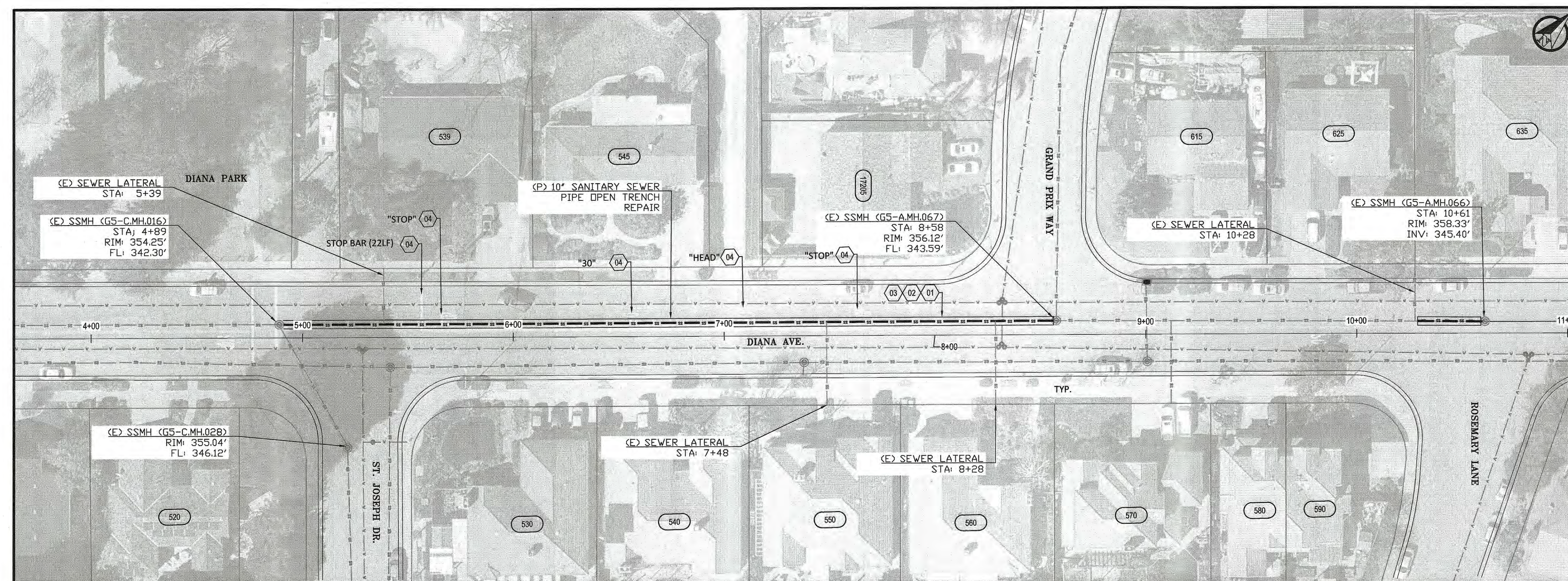
City of Morgan Hill
Public Works Department
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SPRING AVE. PLAN AND PROFILE
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

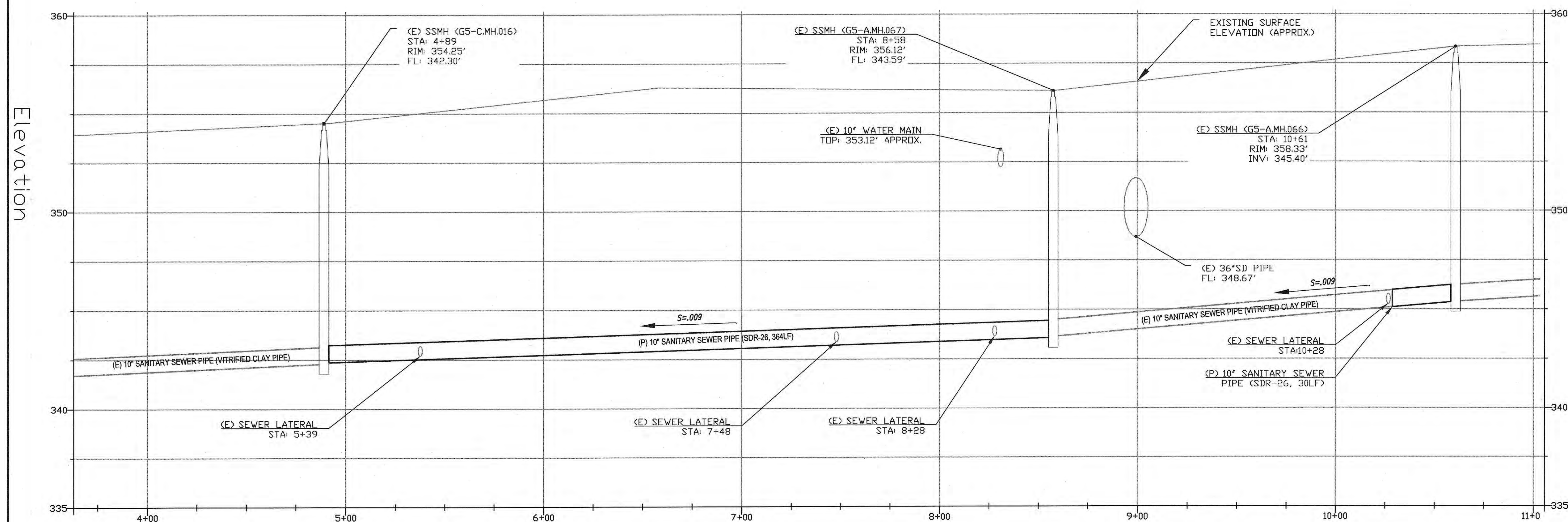


KEY NOTE	DESCRIPTION
01	INSTALL NEW SANITARY SEWER PIPE (SDR-26) OR EQUIVALENT PER DETAIL S-1, ON SHEET 9.
02	RECONNECT SEWER LATERAL PER CITY DETAIL S-3, ON SHEET 9.
03	CONSTRUCT TRENCH CITY PER DETAIL U-1 AND U-2, ON SHEET 10.
04	RE-STRIPE ROAD MARKINGS PER CAL TRANS STD.

- NOTES:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SERVICE ALERT 48 HOURS IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND OBTAIN A DIG ALERT IDENTIFICATION NUMBER PRIOR TO COMMENCEMENT OF WORK.
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 - ALL GREASE AND ROOTS THAT MAY IMPACT THE PIPE INSTALLATION PROCESS OR THAT MAY IMPACT THE SHAPE OF THE PIPE LINER SHALL BE REMOVED PRIOR TO PIPE INSTALLATION.




DIANA AVE. - CONSTRUCTION PLANS (STA: 3+63.00 TO STA 11+03.50)
SCALE : 1" = 30'



DIANA AVE. - PROFILE PLANS (STA: 3+63.00 TO STA: 11+3.50)
SCALE : VER: 1" = 3' , HOR: 1" = 30'

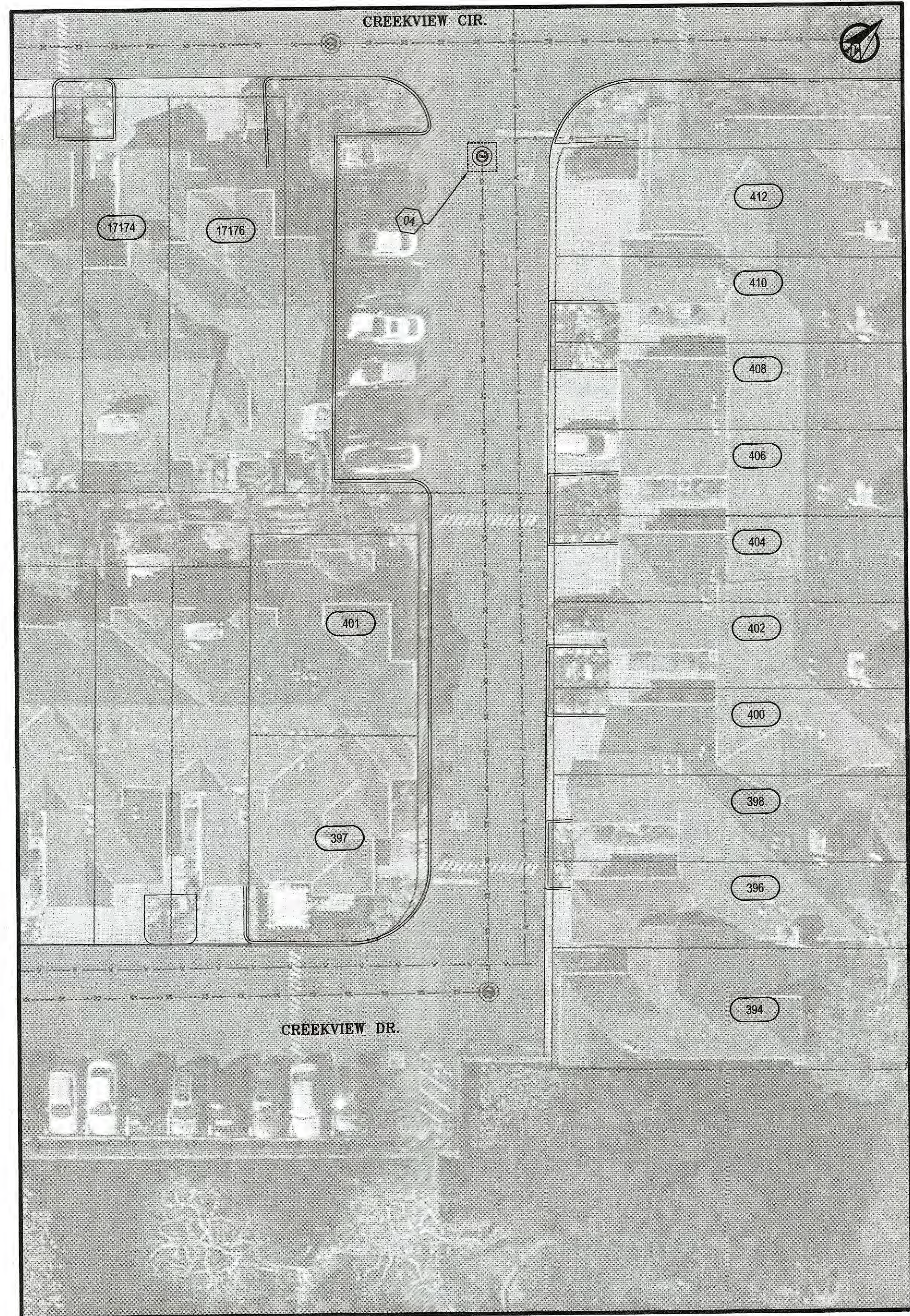


CALL OUT BEFORE YOU DIG				WORK ACCEPTED:		INSPECTOR:		DRAWN: E.RIZO		DESIGN: E.RIZO		HOR: AS SHOWN	
				AS-BUILT CORRECTIONS				CHECKED: Y. CHO		DATE: 01/09/2023		VERT: NONE	
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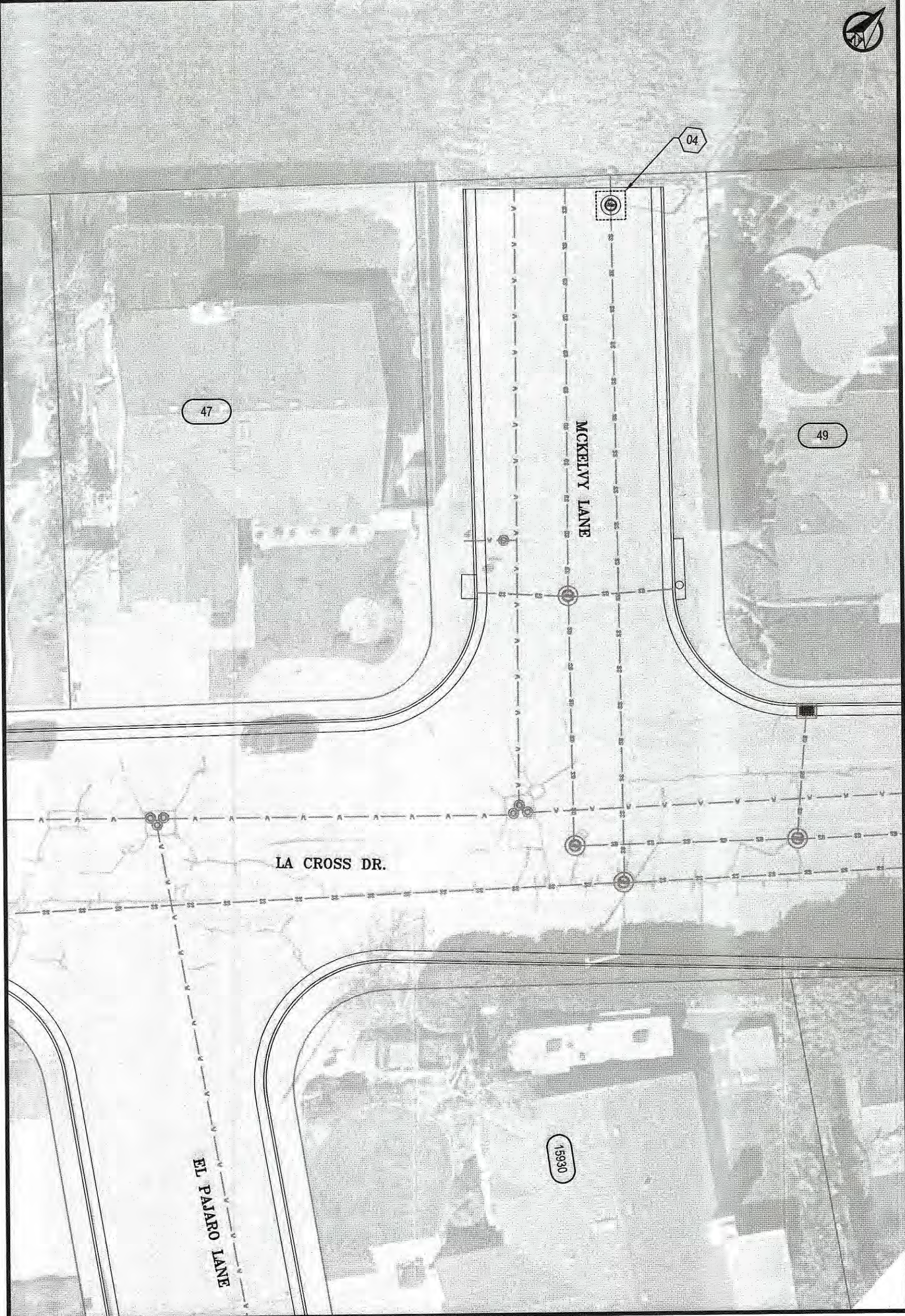
City of Morgan Hill
Public Works Department
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DIANA AVE. PLAN AND PROFILE
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

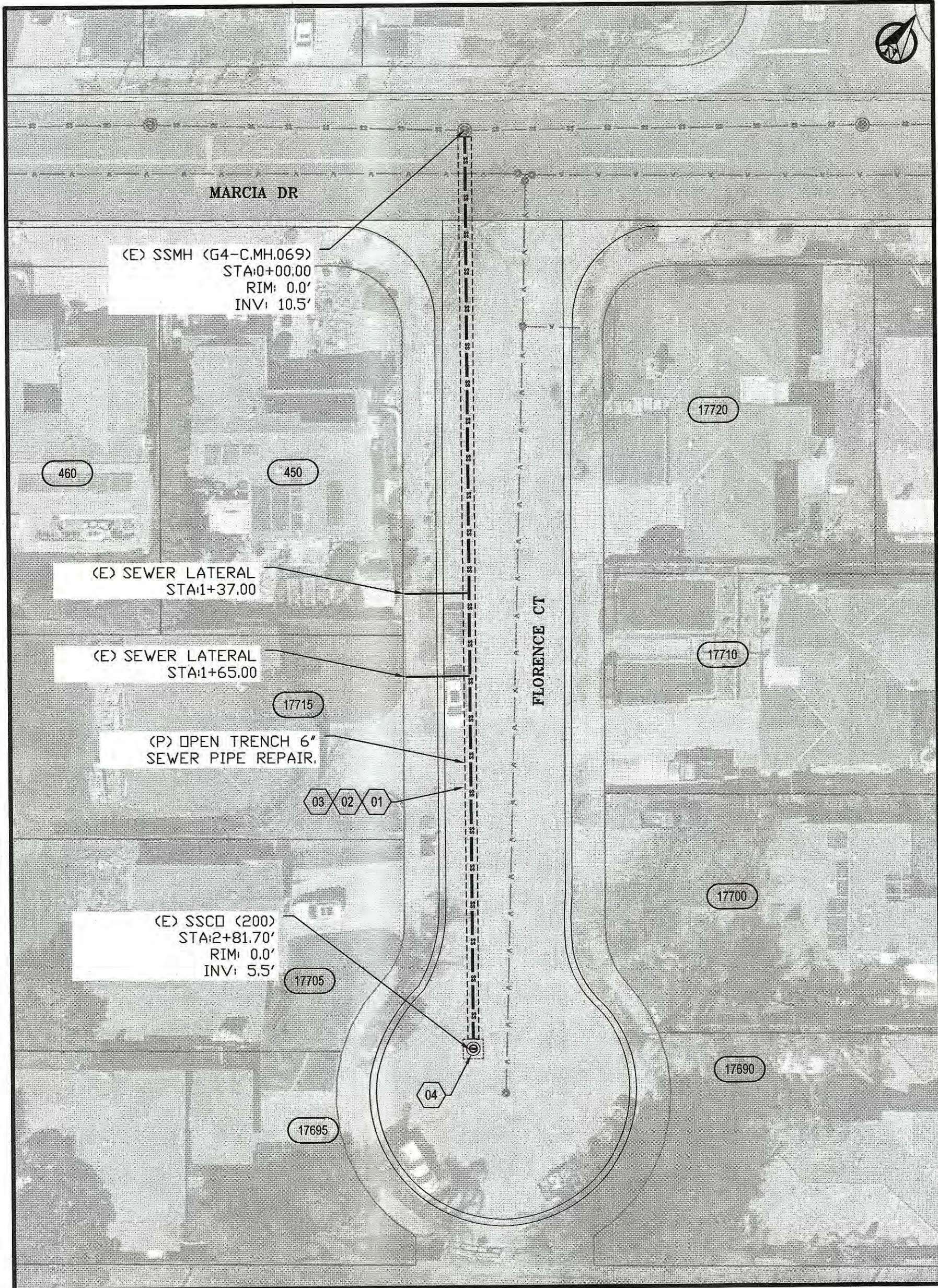
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7 OF 11



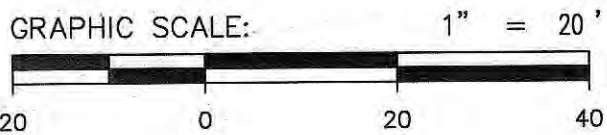
CREEKVIEW RD. - CONSTRUCTION PLANS
SCALE : 1" = 20'



MCKELVEY LN. - CONSTRUCTION PLANS
SCALE : 1" = 20'



FLORENCE CT. - CONSTRUCTION PLANS
SCALE : 1" = 30'



KEY NOTE	DESCRIPTION
01	INSTALL NEW SANITARY SEWER PIPE (SDR-26) OR EQUIVALENT PER DETAIL S-1, ON SHEET 9.
02	RECONNECT SEWER LATERAL PER CITY DETAIL S-3, ON SHEET 9.
03	CONSTRUCT TRENCH PER CITY DETAIL U-1 AND U-2, ON SHEET 10.
04	CONSTRUCT MANHOLE PER CITY STD. SEE DETAIL S-4 ON SHEET 10.

- NOTES:
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NO.	DESCRIPTION	DATE	BY

WORK ACCEPTED:	INSPECTOR:
AS-BUILT CORRECTIONS	
BY:	DATE:

Revisions

DRAWN:	DESIGN:	HOR:
E.RIZO	E.RIZO	AS SHOWN
CHECKED:	DATE:	VERT:
Y. CHO	01/09/2023	NONE
APPROVED:	DATE:	JOB NUMBER:
	2/17/23	302018
SCOTT CREER - CITY ENGINEER R.C.E. #58879 EXP. 6/30/2023		



City of Morgan Hill
Public Works Department

100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282

NEW MANHOLES CONSTRUCTION PLANS
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

FILE NUMBER:
PRINT DATE:
1/30/23
SHEET NUMBER:
8 OF 11

GENERAL SECTION

CONSTRUCTION WITHIN CITY RIGHT-OF-WAY

No person or contractor shall do or cause to be done any improvement or encroachment work of any kind in any public right-of-way within the City without first having obtained an encroachment permit from the Public Works Department.

Developers shall arrange for a pre-construction meeting with the City Engineer (Municipal Code 17.32.250b) prior to commencing any construction. An encroachment permit shall be obtained from the Public Works Department upon completion of said meeting and prior to construction of any improvements within an existing or offered for dedication right-of-way, public utility easement or public service easement.

Contractor shall notify the Public Works Department 48 hours prior to commencement of any work phase. At that time an "Inspection Request Form" shall be completed to ensure proper scheduling of an inspection with the City Engineer's Representative.

Contractor shall not destroy existing permanent survey monuments; whether property corners or street centerline monuments.

All work shall conform to the latest edition of the City of Morgan Hill Standard Details for Construction. Deviations from the Standard Details must be approved by the City Engineer.

Contractor shall only use equipment provided with a spark arrestor device to reduce a potential fire hazard.


ON-SITE CONSTRUCTION

A grading permit shall be obtained from the City of Morgan Hill Building Division prior to any grading of building pads. Applicant for the grading permit shall provide a plan review letter from the Soils Engineer. A grading permit does not give contractor permission to commence off-site (street) grading. Only upon City approval of the improvement plans and completion of a pre-construction meeting, shall contractor commence off-site grading.

Contractor shall preserve all surrounding property by confining operations to within the "Limits of Work". Contractor shall be responsible for maintaining access for all adjoining residents, places of business, and properties at all times and in a safe manner. Contractor shall make proper notification at least 24 hours in advance of any interruption in access or service to the above property owners as well as to the City Engineer's Representative.

RIGHT OF MODIFICATION

Approval of an improvement plan does not release owner/subdivider of the responsibility for correction of mistakes, errors, or omissions, contained within the plans. If during the course of construction, public interest requires a modification of or a departure from the improvement plans or these Standard Details for Construction, the City Engineer shall have the authority to require such modifications and departures and to specify the manner in which the same is to be made.

 City of Morgan Hill Public Works Department		DRAWING NO. G-I
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	REVISED
GENERAL NOTES		

OFF-SITE WATER AND DUST CONTROL

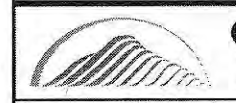
Contractor shall provide a water truck onsite at all times. Contractor will be allowed to draw water from the City of Morgan Hill Water Distribution System only after obtaining a hydrant meter from the Public Works Department and an inspection of the water truck for a proper backflow device or "air-gap" filling pipe. Developer has paid for "off-site" construction water which shall not be used for building construction. Contractor shall keep down dust from construction activity to the maximum extent possible. Contractor shall clean all existing streets, curbs, gutters, and sidewalks affected by the project at the end of each working day.

MATERIAL STORAGE

No material shall be stored near the edge of pavement, traveled way, sidewalk, driveway, or shoulder line which may create a hazard for vehicular and pedestrian traffic.

TRAFFIC CONTROL

Contractor shall submit a traffic control plan for approval to the Public Works Department a minimum of 5 days prior to any work within an existing public street. The plan shall be signed by a licensed Traffic Engineer when it involves an arterial street. Contractor shall provide all necessary traffic control in accordance with the latest edition of CALTRANS "Manual of Warning Signs, Lights, and Devices for Use in Performance of Work Upon Highways" while working within the public right-of-way. Two traffic lanes (10' min.), shall be open to vehicular traffic during all hours, weekends, and holidays. One lane one way traffic, may be permitted under the control of not less than 2 (two) competent flagmen during construction operations. Street closures and detours shall only take place upon City Engineer approval and Police Department coordination.

 City of Morgan Hill Public Works Department		DRAWING NO. G-II
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	REVISED
GENERAL NOTES		

SANITARY SEWER

GENERAL

All Sanitary Sewers shall be constructed in accordance with the City of Morgan Hill Standard Details. Materials shall conform to the American Society for Testing and Materials (ASTM), and the American Water Works Association (AWWA), except as modified herein.

SEWER MAINS

Main sewer lines shall be PVC or ABS "composite wall" pipe, PVC solid wall pipe, ABS solid wall pipe, polyurethane lined D.I.P. or PVC C900. Polyurethane D.I.P. (or PVC C900 upon City Engineer approval) shall be used where pipe cover is less than 3 feet but at least 2 feet.

After all testing, backfill and pavement restoration has been completed, the contractor shall flush and clean all sewer lines 24 inches or less in diameter by the "Wayne Ball" method.

TYPES OF SEWER MAIN/LATERALS

POLY-VINYL CHLORIDE (PVC)

Poly-Vinyl Chloride (4" to 12") solid wall pipe, shall conform to ASTM D 3034 (SDR 26) with rubber gasket joints. PVC used for force or shallow

main shall conform to AWWA C900 and installation conform to ASTM D 2774.

ACRYLONITRILE-BUTADIENE-STYRENE (ABS)

Acrylonitrile-Butadiene-Styrene (4" to 12") solid wall pipe, shall conform to ASTM D 2751 (SDR 26).

COMPOSITE WALL PIPE

Double wall, truss type braced, and concrete filled, composite wall pipe, shall conform to ASTM D 2680, SDR 23.5.

DUCTILE IRON PIPE (Polyurethane Lined & Polyethylene Encased)


Polyurethane Lined D.I.P. for force mains or shallow mains, shall be "POLYTHANE Lined Ductile Iron Pipe and Fittings" as manufactured by U.S. Pipe or approved equal. Polyethylene Encasement shall be "GREENSHIELD Polyethylene Film" as manufactured by U.S. Pipe or approved equal, and conform to AWWA C105.

SEWER MAIN/LATERAL INSTALLATION

PVC/ABS solid wall pipe shall be installed per ASTM D2321 using sand as the embedment material. Sand shall conform to CALTRANS Section 19-3.025B.

LATERALS

The underground contractor shall keep an accurate record of all manholes and the distance between them and each wye branch lateral and their direction. Laterals shall be laid on a minimum of 2% grade. The end of the lateral shall be marked as shown in Detail S-2 prior to construction of the curb and gutter. The concrete contractor shall stamp an "S" on the face of curb directly above the lateral.

 City of Morgan Hill Public Works Department		DRAWING NO. S-I
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	REVISED
GENERAL NOTES		

TESTING

After backfill and compaction of the base rock, all sewer mains, laterals and manholes shall be required to pass an air or water leakage test. The contractor shall furnish all equipment, labor and materials needed to perform the test. A "Mandrel Test" may also be required by the City Engineer.

AIR TEST

The pneumatic test method or "air test" is the preferred test for leakage detection of new sewer lines. Contractor shall furnish all equipment, labor and materials necessary to perform the test. Length of line tested at one time shall be limited to the length between adjacent manholes.

Air test procedure shall be as follows: Pressurize the test section to 3.5 PSI, disconnect the compressor from the hose and time for not less than 5 minutes. If at the end of the test period the pressure is less than 3.0 PSI, the section of pipe has failed. If the new main is below ground water level, the Uni-Bell UNI-B-6 "Recommended Practice for Low-Pressure Air Testing of Installed Sewer Pipe" shall be used.

AIR TEST ON PRESSURE MAIN

Force mains shall hold air pressure that is 50% higher than the normal operating pressure for a period of 3 minutes with pressure drop not to exceed 0.5 psi.

WATER TEST

In lieu of the air test a water test may be performed upon approval of the inspector. Where grades are slight, two or more sections between manholes may be tested at the same time. Where grades are steep, the maximum head on any one section shall not exceed 12 feet. All lines and branches not under test shall be plugged to prohibit overflow.


A section of sewer line prepared as above shall be tested by filling the manhole with water to a height of four feet above the invert at midpoint of the test section, or one foot above the top of pipe in the upstream manhole, whichever is greater. Water should be introduced into the test section at least 6 hours in advance of the official test period to allow pipe and joint material to become saturated with water. All entrapped air shall be removed from the test section prior to performing the test. At the beginning of the test, the height of water in the upper manhole shall be carefully measured from a point on the manhole rim. After a period of 2 hours or less, with the approval of the inspector, the water height shall be measured from the same point on the manhole rim and loss of water during the test period calculated. Allowable leakage shall not exceed 4 gallons per hour per 1000 feet of line per inch of pipe diameter.

Sewer sections showing leakage in excess of the maximum shall be repaired or reconstructed as necessary to reduce leakage to the maximum specified above.

The contractor's attention is directed to the fact that the stipulated maximum leakage shall in no way relieve the contractor of his obligation to correct, stop or otherwise remedy individual leaks in the system due to defective workmanship or material even though such leakage might fall within the maximum.

MANDREL TEST

A Mandrel test may be required by the City Engineer. The Mandrel shall be 4% smaller than the inside diameter of the pipe tested.

 City of Morgan Hill Public Works Department		DRAWING NO. S-II
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	REVISED
GENERAL NOTES		

TELEVISION INSPECTION

After the leakage test, but prior to paving, a television inspection shall be performed at all locations of newly installed sewer mains throughout the project at contractor's expense. The television inspection shall be made in the presence of the inspector and contractor.

An electronic format & (Flash Drive) video shall be furnished by the contractor to the City at the initial inspection and upon the completion of any repairs. All LACP and/or MACP version 7.0 or later. A written Inspection Log for all video inspections shall accompany each DVD. Logs shall accurately measure distances measured from center point of each manhole and shall clearly show the location in relation to the manhole of all points of significance in the sewer line. As a minimum, each Log shall include the location and left/right orientation of all service laterals, the location and depth of sags, offset pipes, or any other points of significance.

Additionally, each record shall accurately describe the above ground location of the manhole section including the street name, direction traveled (north, south, etc.), direction of flow, adjoining house numbers, and any other landmarks that will clearly and quickly identify the section. All defects and deficiencies discovered in this inspection shall be corrected by the contractor to the satisfaction of the City Engineer and at the contractor's expense.

Measuring devices and depth tolerances for trapped water shall be as follows:


Device	Depth Tolerance
6"	0.08'
8"	0.11'
10"	0.13'
12"	0.16'
15"	0.20'
>15"	10% of pipe area

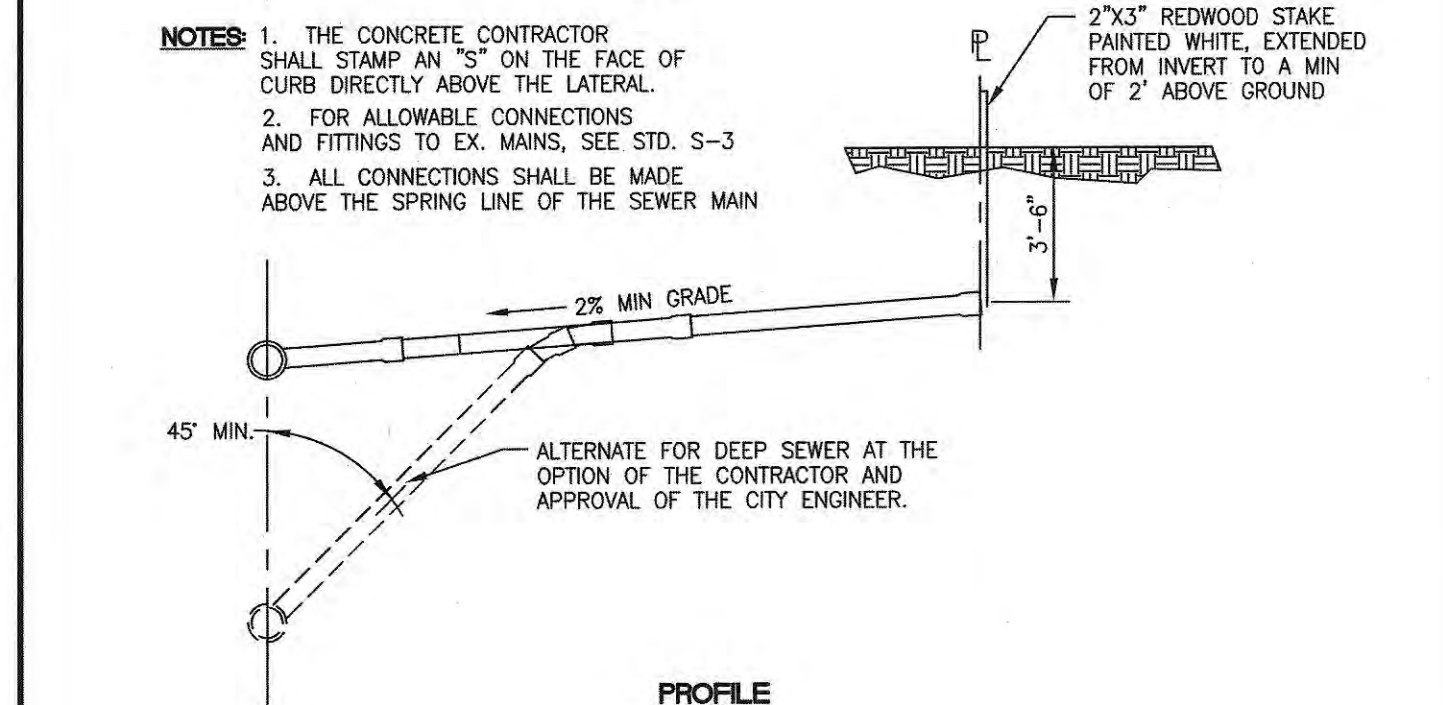
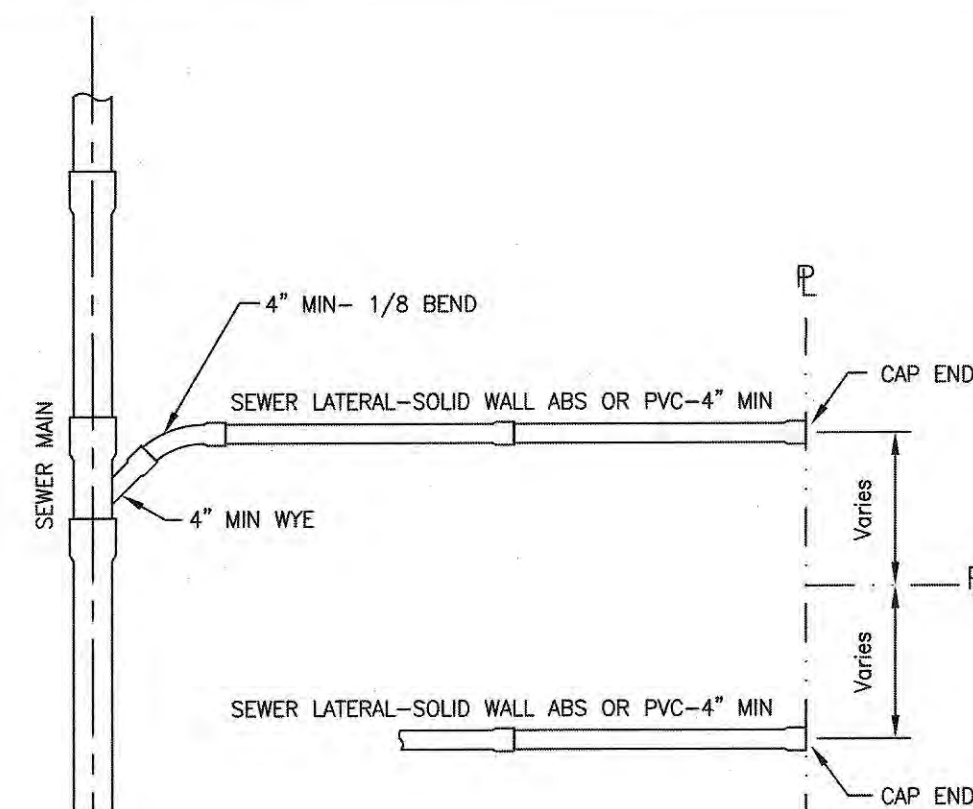
The Contractor shall follow the standards set in the National Association of Sewer Service, (NASSCO), "Pipeline Assessment Certification Program Condition Classification"(PACP) most current, to describe internal pipe conditions and/or defects.

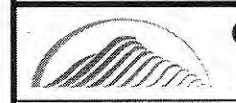
If the City suspects any damage or breaks in the line, a television inspection may be required within the one year warranty period at the contractor's expense. All defects discovered in this inspection shall be corrected by the contractor at his expense.

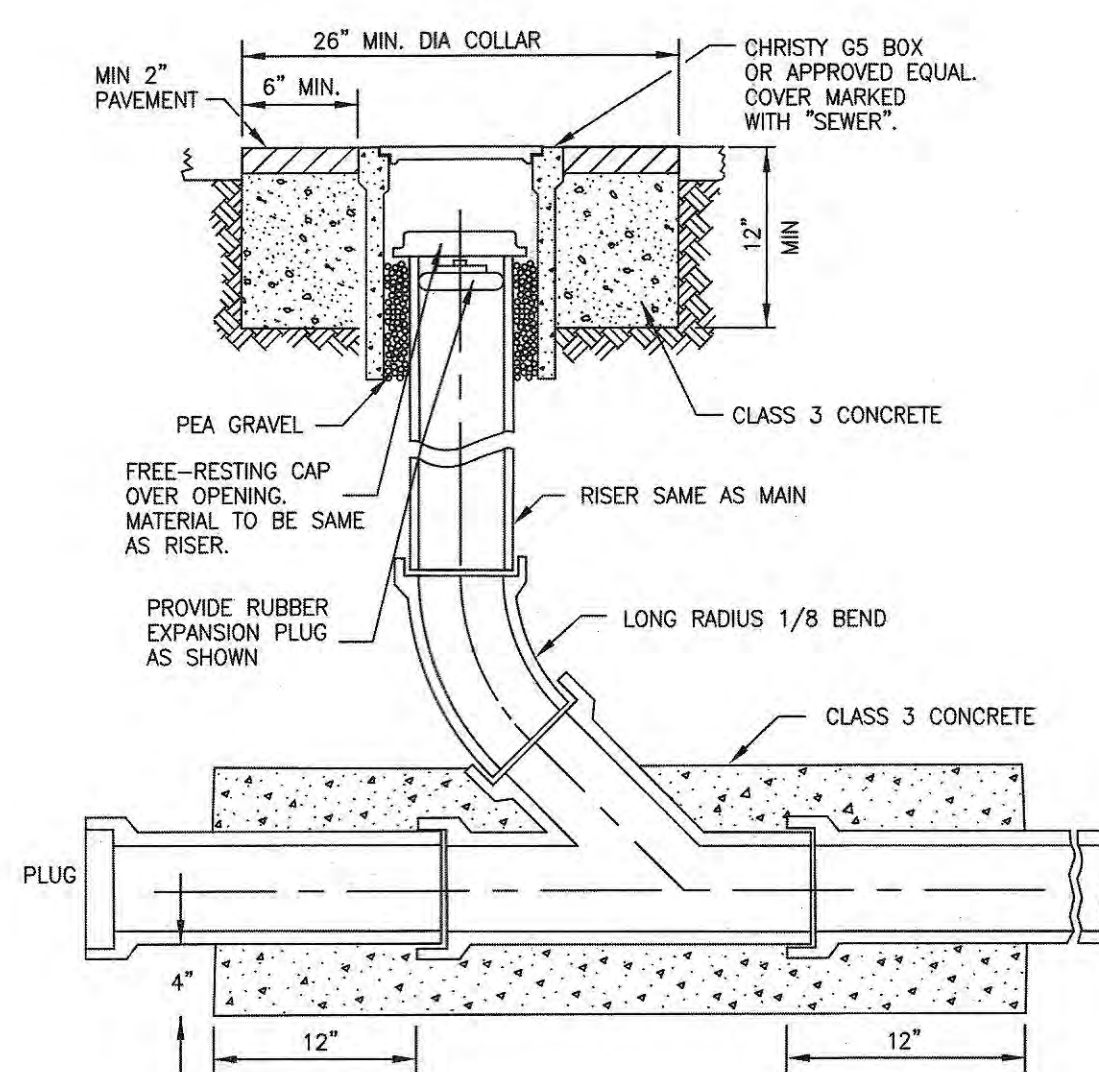
MANHOLES


Manhole bases shall be cast in place. Precast bases may be used if approved by the City Engineer. Manholes shall be waterproofed by grouting and/or painting the interior with COLORED sodium silicate or other approved waterproofing.

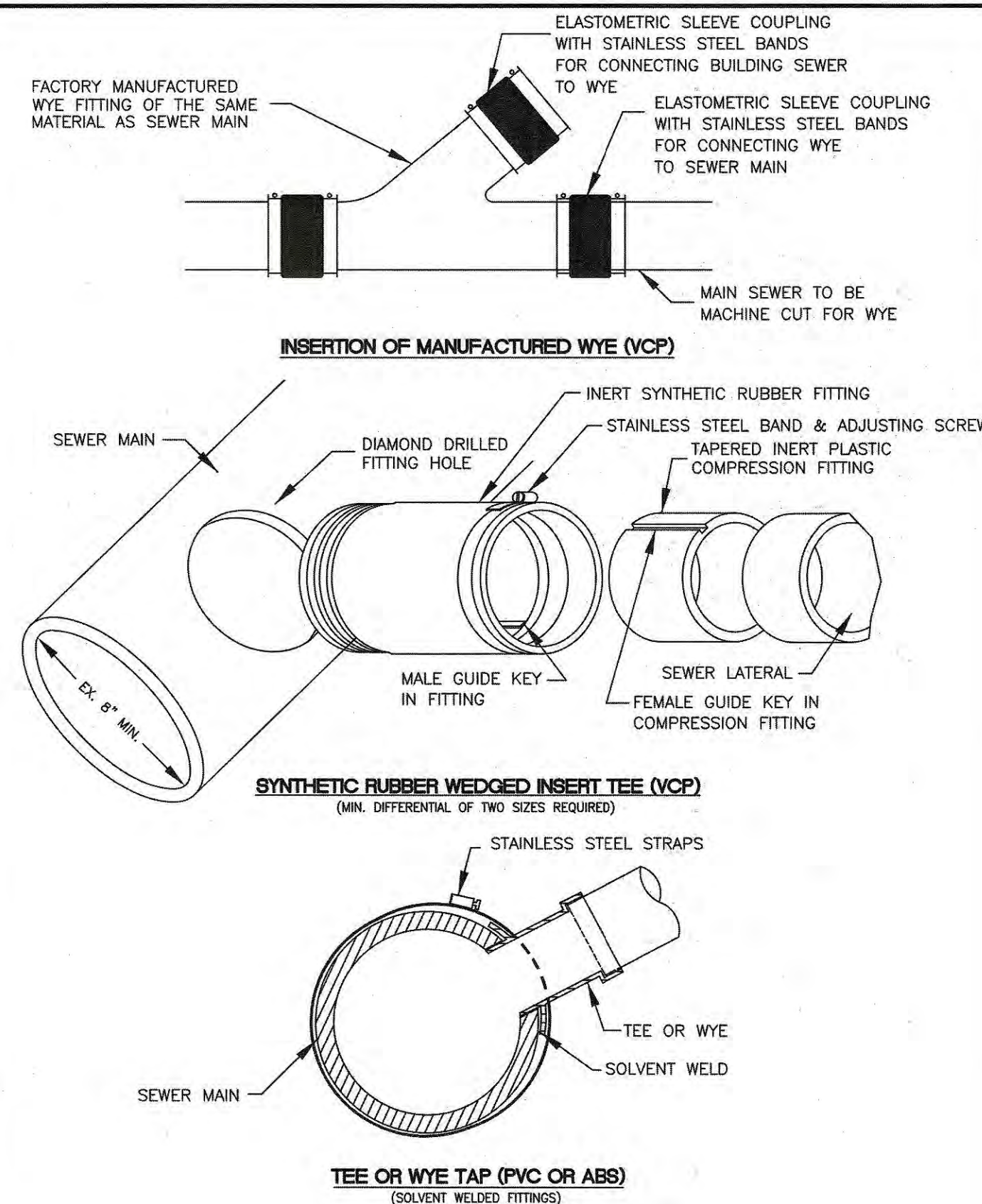
 City of Morgan Hill Public Works Department		DRAWING NO. S-III
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	11/11/19 REVISED
GENERAL NOTES		




 City of Morgan Hill Public Works Department		DRAWING NO. S-2
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED
SEWER LATERAL		

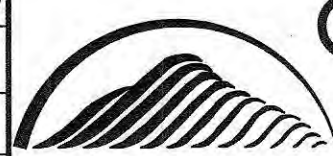


 City of Morgan Hill Public Works Department		DRAWING NO. S-1
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED
SEWER CLEANOUT		



 City of Morgan Hill Public Works Department		DRAWING NO. S-3
<i>Jim Oakes</i> CITY ENGINEER	4/1/96 DATE	REVISED
SEWER LATERAL CONNECTION OPTIONS		

WORK ACCEPTED: INSPECTOR:		DRAWN: E.RIZO	DESIGN: E.RIZO	HOR: AS SHOWN
AS-BUILT CORRECTIONS		CHECKED: Y. CHO	DATE: 01/09/2023	VERT: NONE
APPROVED: [Signature]		DATE: 2/12/23	JOB NUMBER: 302018	
SCOTT CREER - CITY ENGINEER R.C.E. #58879 EXP. 6/30/2023				

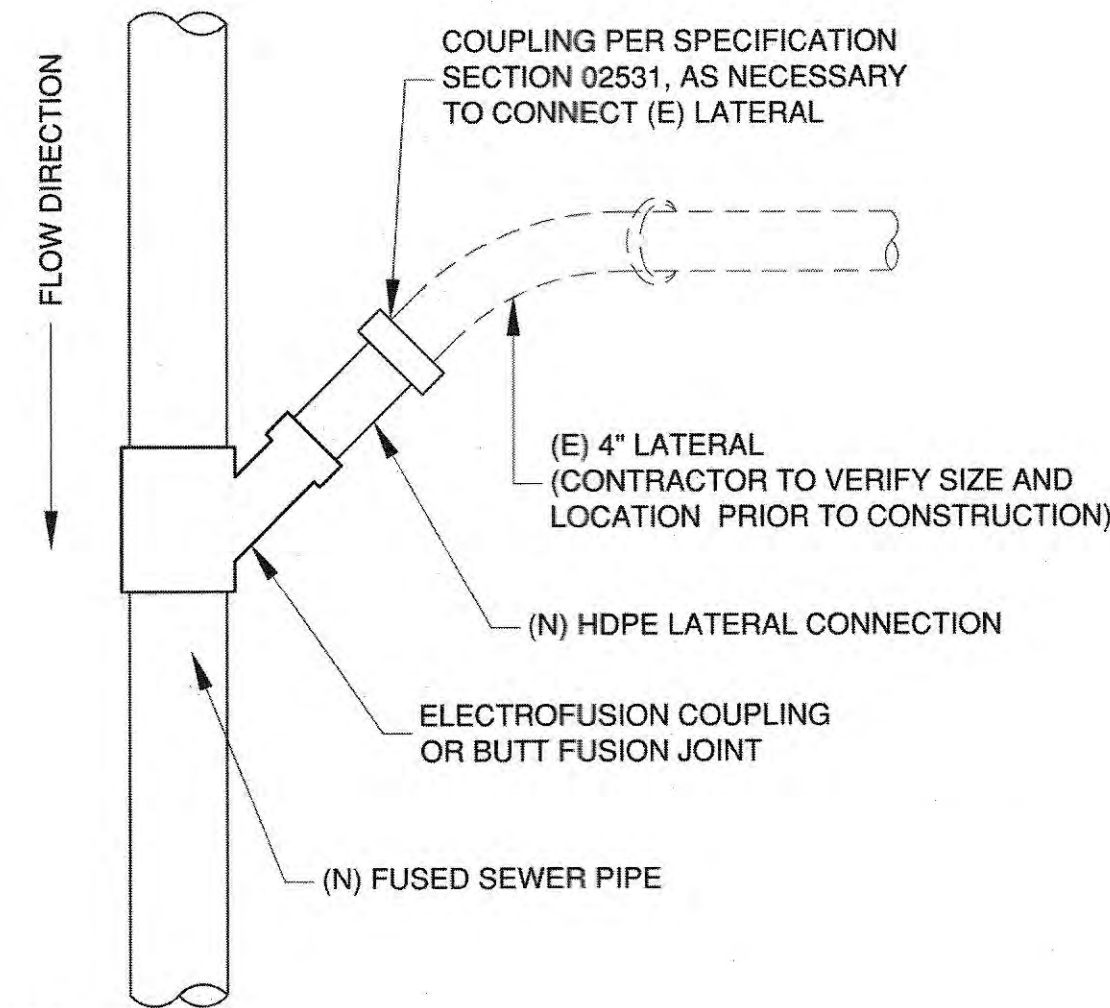


City of Morgan Hill
Public Works Department

100 Edes Ct. Morgan Hill, CA 95037 (408)776-7337, Fax (408)779-6282

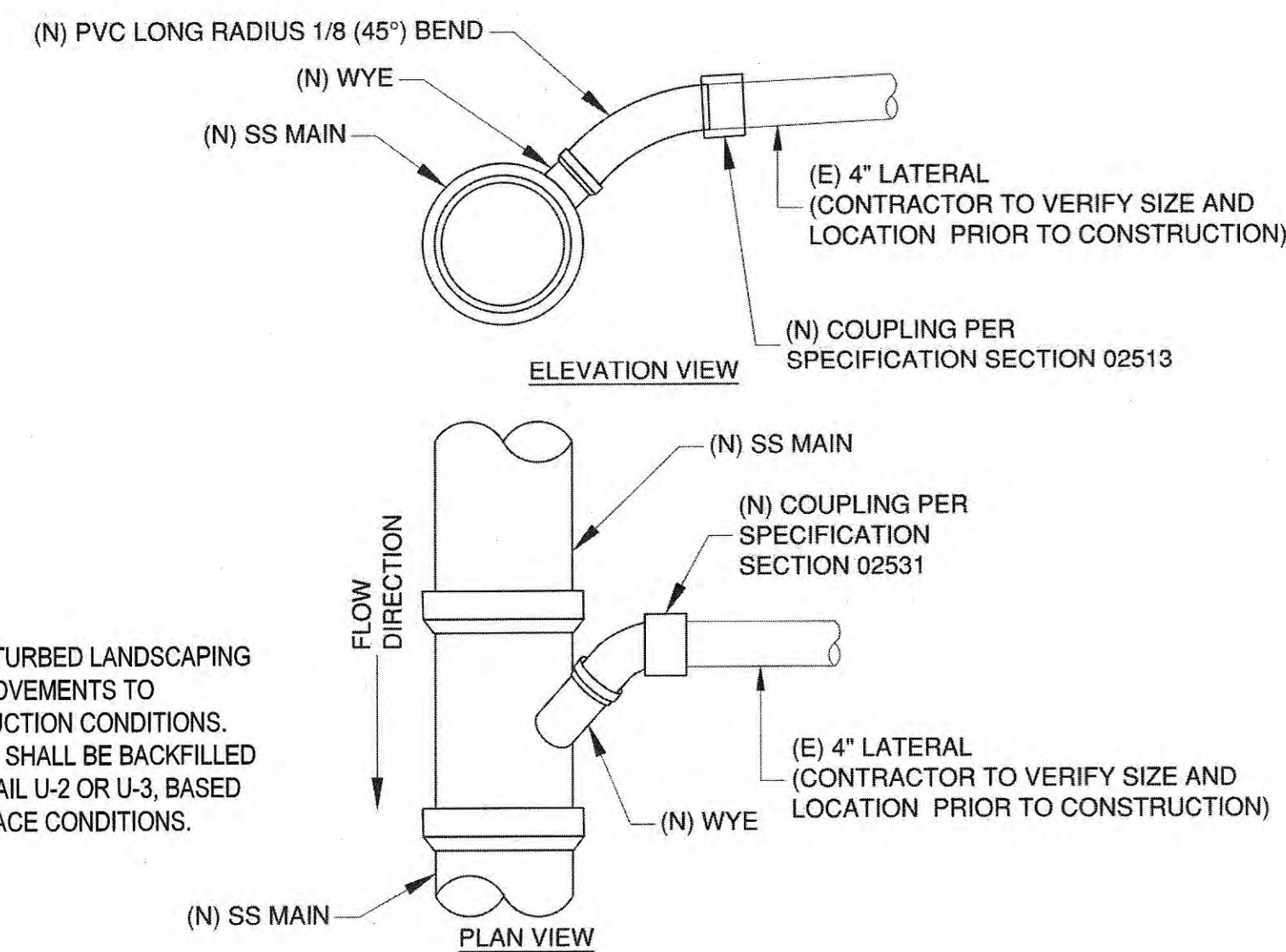
DETAIL SHEET
2023 INFLOW AND INFILTRATION SEWER
REPAIR PROJECT

FILE NUMBER:
PRINT DATE:
1/30/23
SHEET NUMBER:
9 OF 11



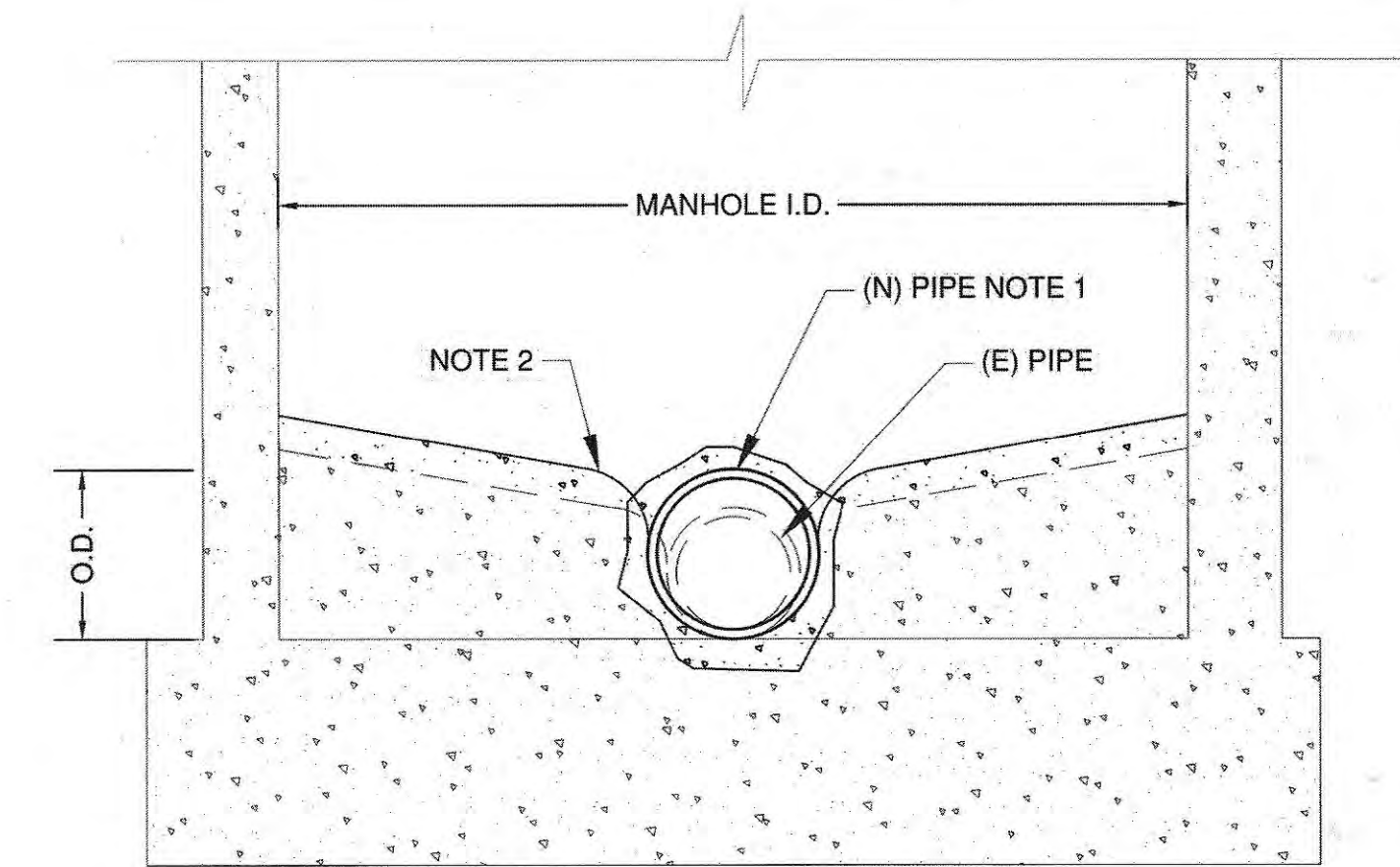
- NOTES:
1. CONNECT TO MAIN W/ ELECTROFUSION COUPLING OR BUTT FUSION JOINT PER SPECIFICATION SECTION 02345.
 2. RESTORE DISTURBED LANDSCAPING AND/OR IMPROVEMENTS TO PRE-CONSTRUCTION CONDITIONS
 3. EXCAVATIONS SHALL BE BACKFILLED PER CITY DETAIL U-2 OR U-3, BASED ON THE SURFACE CONDITIONS.

1 BURSTING - LATERAL CONNECTION
SCALE: NTS



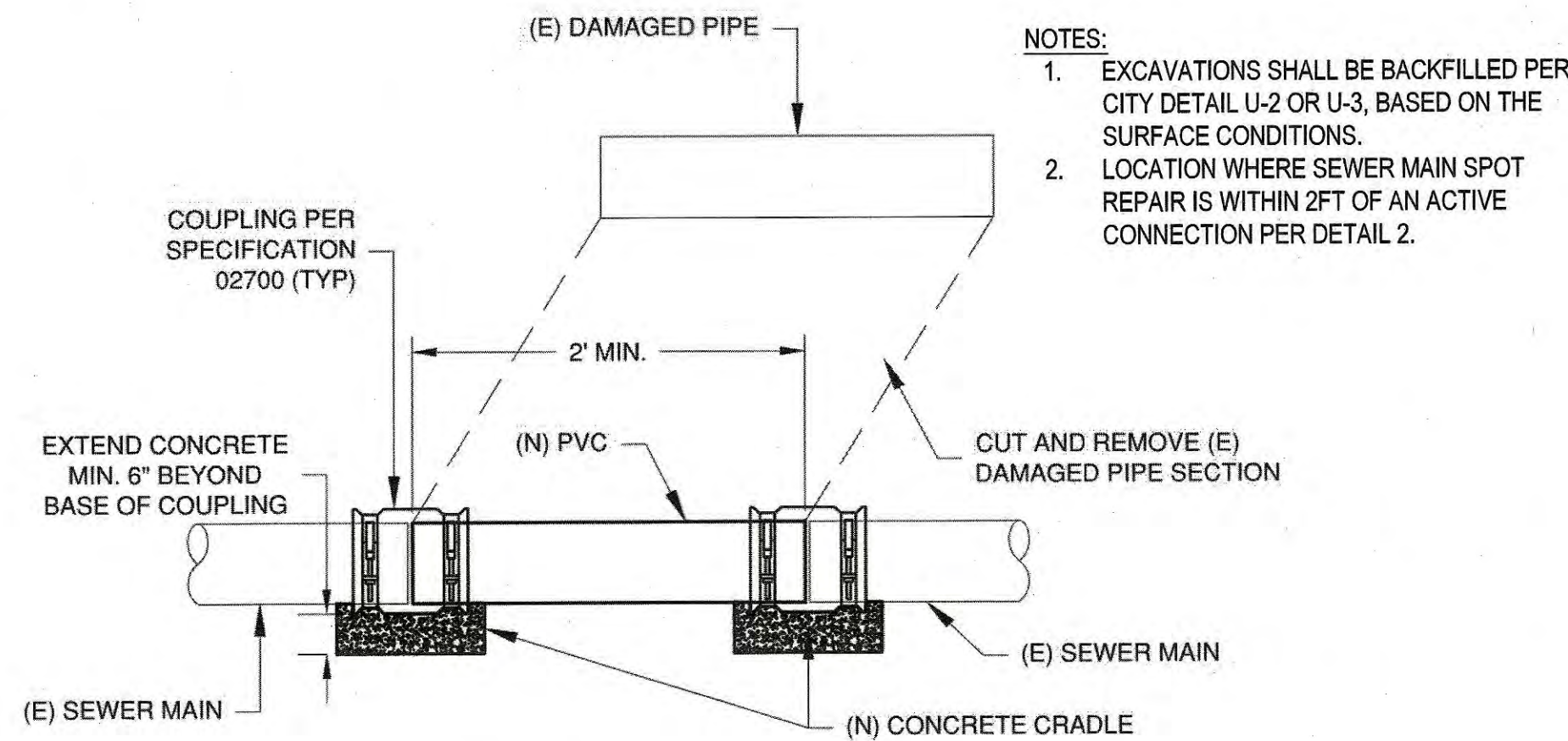
- NOTES:
1. RESTORE DISTURBED LANDSCAPING AND/OR IMPROVEMENTS TO PRE-CONSTRUCTION CONDITIONS.
 2. EXCAVATIONS SHALL BE BACKFILLED PER CITY DETAIL U-2 OR U-3, BASED ON THE SURFACE CONDITIONS.

2 SEWER LATERAL (OPEN CUT)
SCALE: NTS



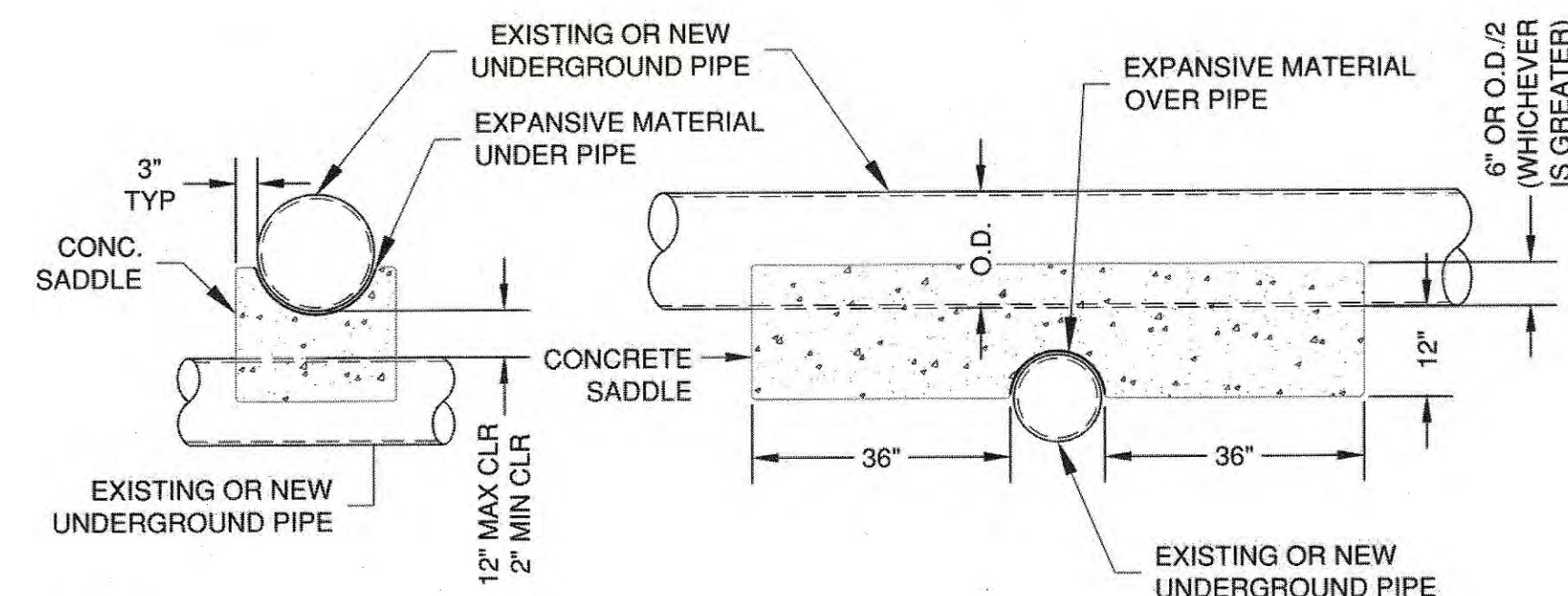
- NOTES:
1. REMOVE PORTION OF (E) MH WALL TO ALLOW INSERTION OF (N) PIPE. INSTALL WATERSTOP AROUND NEW CONNECTION. FILL VOIDS W/ NON-SHRINK GROUT.
 2. REMOVE PORTION OF (E) TROUGH & BENCH TO ALLOW FOR (N) PIPE. BUILD UP BENCH & REFORM TROUGH FOR (N) PIPE W/ GROUT. SLOPE BENCH AT 1/2\"/>

3 MODIFY MANHOLE FOR PIPE BURSTING
SCALE: NTS



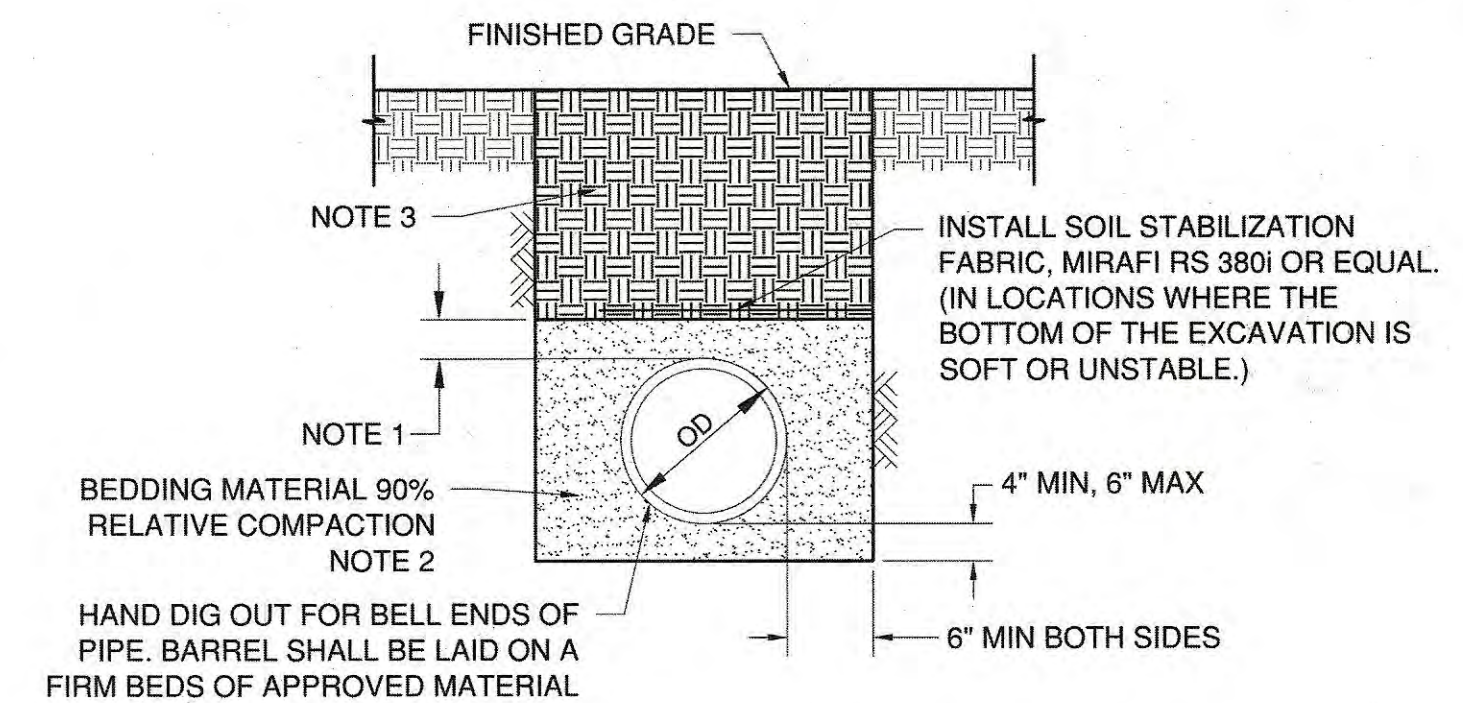
- NOTES:
1. EXCAVATIONS SHALL BE BACKFILLED PER CITY DETAIL U-2 OR U-3, BASED ON THE SURFACE CONDITIONS.
 2. LOCATION WHERE SEWER MAIN SPOT REPAIR IS WITHIN 2FT OF AN ACTIVE CONNECTION PER DETAIL 2.

4 SPOT REPAIR DETAIL
SCALE: NTS



- NOTE:
- INSTALL CONCRETE SADDLE AT EACH LOCATION WHERE A NEW UNDERGROUND UTILITY CROSSES IN EXISTING UNDERGROUND UTILITY WITH LESS THAN 12\"/>

5 CONCRETE SADDLE DETAIL
SCALE: NTS



- NOTES:
1. 6\"/>

6 STANDARD TRENCH DETAIL FOR UNIMPROVED AREAS
SCALE: NTS

				WORK ACCEPTED:	INSPECTOR:	DRAWN:	DESIGN:	HOR:		
				AS-BUILT CORRECTIONS		CHECKED:	E. RIZO	DATE:	E. RIZO	AS SHOWN
						Y. CHO	01/09/2023	DATE:	2/2/20	VERT:
NO.	DESCRIPTION	DATE	BY	BY:	DATE:	APPROVED:	DATE:		JOB NUMBER:	
g:\r-13\proj\library\mhbase\24x36bse.dwg				Revisions		SCOTT CREER - CITY ENGINEER R.C.E. #58879 EXP. 6/30/2023				