

HORIZONTAL DATUM:
CALIFORNIA ZONE 3 NAD83 STATE PLANE GRID (2016 EPOCH) ROTATED TO A BASIS OF BEARINGS.

BASIS OF BEARINGS:
THE BEARING OF N39°22'W BETWEEN FOUND MONUMENTS ALONG THE SOUTHWEST LINE OF DEPOT STREET AS SHOWN ON THE PARCEL MAP FILED JULY 5, 1994 IN BOOK 657 OF MAPS, AT PAGE 7, RECORDS OF SANTA CLARA COUNTY, CALIFORNIA, WAS TAKEN AS THE BASIS OF BEARINGS.

VERTICAL DATUM:
NAVD88

BENCHMARK:
SANTA CLARA VALLEY WATER DISTRICT BENCHMARK "BM002", A BRASS DISK ON TOP OF A CONCRETE CURB, AT BACK OF SIDEWALK OF NORTHWEST CORNER OF INTERSECTION OF MONTEREY ROAD WITH WEST DUNNE AVENUE, 13.4 FEET NORTH OF TRAFFIC SIGNAL #2343, 10.3 FEET FROM FLOW LINE OF GUTTER, 0.55 FEET HIGHER THAN BACK OF SIDEWALK. ELEVATION (NAVD88) = 342.80 FEET

CITY OF MORGAN HILL GENERAL NOTES

1. Temporary Bench Mark - Based on a City approved benchmark as shown on these plans.
2. All existing elevations shall be field verified by contractor unless otherwise noted.
3. Contractor shall not destroy existing permanent survey monuments. If destroyed, they must be replaced per City Detail A-31.
4. All work shall conform to the latest edition of the City of Morgan Hill Standard Details for Construction which are hereby made a part of these plans. Deviations from the Standard Details must be approved by the City Engineer.

5. Contractor shall arrange for a pre-construction meeting with the City Engineer 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.
6. Contractor shall notify the Public Works Inspector 48 hours prior to commencement of any work phase.

7. 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.

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

9. Right of Modification:

Approval of this plan does not release Contractor of the responsibility for correction of mistakes, errors, or omission contained therein. If during the course of construction, public interest requires a modification of or a departure from these improvement plans or the City 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.

10. Off-Site Water & 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. 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.

11. 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. No material should be stored in the public right-of-way. A designated site shall be selected and paid for by the Contractor prior to construction meeting.

12. Traffic Control:

Contractor shall submit a traffic control plan for approval to the Public Works Department a minimum of 10 days prior to any work within an existing public street. The plan shall be signed by licensed Traffic Engineer when it involves an arteriel street. Contractor shall provide necessary traffic control in accordance with the location of MUTCD, 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.

13. Trench Excavation:

Contractor shall exercise diligence in reviewing the approved Soils Report and other available resources to determine the type and amount of soil to be removed or encountered in the course of work identified in these plans. Contractor shall not cause damage to adjacent trees or existing structures above or below grade during trench excavation. All rocks, boulders, and large stones encountered shall be removed to provide a clearance of 6 inches around the pipe. The trench bottom shall be refilled to grade with 3/4" pea gravel and 1/2" coarse gravel. The top of the trench shall be pea gravel shall be used in areas of moist condition, where the soil has a history of sub-surface water. If the bottom of the trench is found to consist of wet or unstable material incapable of properly supporting the pipe, the material shall be removed to a minimum depth of 12 inches below the unstable layer for the full width of the trench and replaced with appropriate gravel material. Trench excavation material deposited adjacent to the trench shall be placed and located to prevent spillage into the open trench. Contractor to provide hot mix for temporary pavement over trench until pavement restoration is made.

14. Trench Safety:

It shall be Contractor's responsibility to provide all necessary trench safety measures for excavations. All trench safety measures shall be in accordance with the latest CAL-OSHA guidelines. Contractor shall provide evidence of a CAL-OSHA trenching permit at the pre-construction meeting.

15. Excavations within the public right-of-way shall be backfilled, compacted, and temporarily paved with cold mix "cut back" type A.C. to allow for vehicular and pedestrian traffic prior to 4:00 P.M. The use of trench plates is allowed, provided the contractor complies with the plated with cold mix material. It shall be the Contractor's responsibility to move any utility backfilling material to the amount of material necessary to maintain the trench surface flush with the existing street or sidewalk. In addition, the Contractor shall respond to and correct shifting trench plates regardless of the time of day. If trench plates are to remain in place for longer than 24 hours, they must be recessed and flush with surrounding pavement. On arterial roadways, utility backfill must be removed and replaced by the Contractor. If Contractor fails to correct sinking backfill material or shifting trench plates in a timely manner, City shall reserve the right to correct the problem and back charge the Contractor.

16. Joining Existing Pavement:

Existing pavement which is to be joined by new pavement shall be saw cut vertical to provide straight, true and neat joints. Overlapping of existing pavement without saw cutting or grinding shall not be permitted. The vertical edges shall be tacked prior to paving. Terminals of all surfacing indicated on the plans shall join any existing surface in a smooth tight joint. Conform paving by method of abrasive grinding will be allowed upon approval of the City Engineer.

Sanitary Sewers:

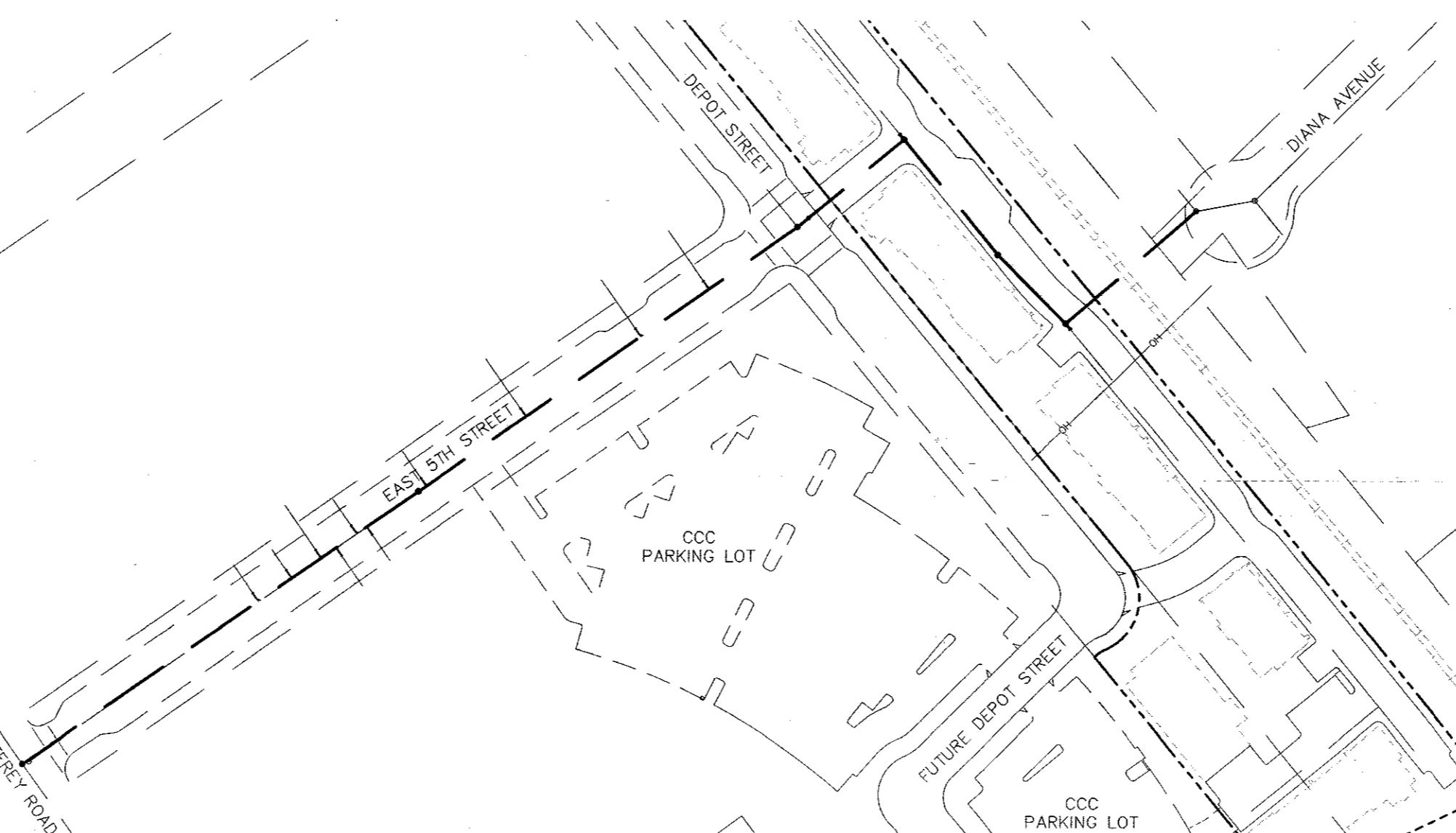
17. All manholes, sewer mains, and laterals must pass a leakage test as described in the City of Morgan Hill Standard Details for Construction. After all backfill, testing, and pavement restoration has been completed, the contractor shall flush and clean all sewer lines 24 inches or less in diameter by the "Wayne Ball Method". After the leakage test, but prior to paving, a television inspection shall be performed at all locations of newly installed sewer mains at contractor's expense. The underground contractor must keep an accurate record of manholes and the distance between them and each new lateral, and their direction.

18. Before any upstream sewers are constructed, the contractor shall verify the elevation and location of existing sewer lines to be connected.

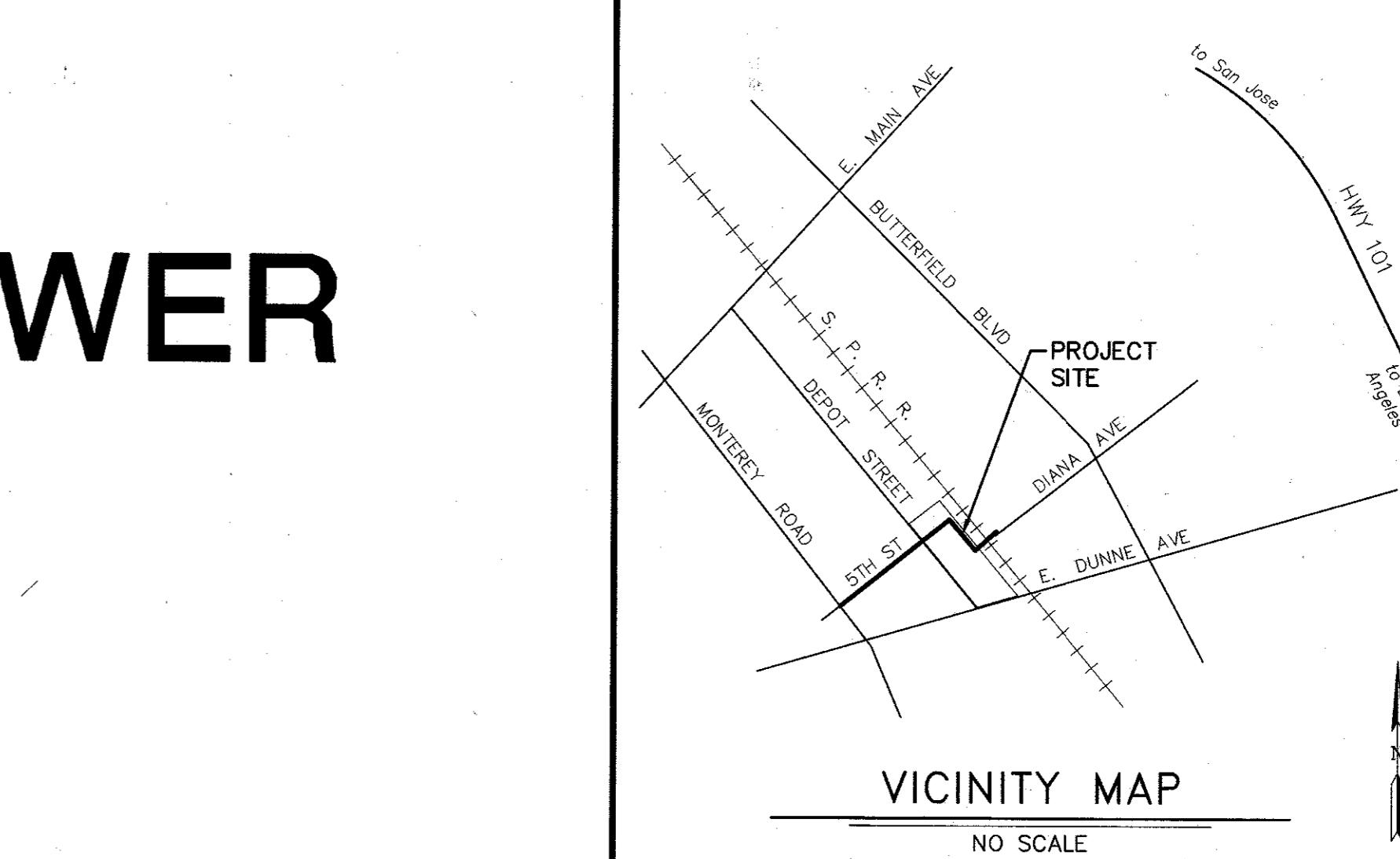
Water Lines:

19. Contractor shall not turn off or on any valves belonging to the City's water system. Any Department of Public Works personnel shall open the necessary valves to connect new lines. Failure to follow this requirement shall be considered an "unlawful connection" and may result in issuing of a citation and fines as specified in Section 13.04 of the Morgan Hill Municipal Code.

CITY OF MORGAN HILL IMPROVEMENT PLANS FOR EAST FIFTH STREET SEWER MAIN PROJECT



LOCATION MAP



VICINITY MAP

SHEET INDEX

SHEET NO.	TITLE
1	TITLE SHEET
2	NOTES
3	DETAILS
4	EXISTING CONDITIONS AND DEMOLITION PLAN
5	SANITARY SEWER LINE - BEGIN TO 7+50
6	SANITARY SEWER LINE - 7+50 TO DRIVE A
7	SANITARY SEWER LINE - WITHIN DRIVE A
8	SANITARY SEWER LINE - DRIVE A TO END
9	EAST 5TH STREET PAVING
10	EROSION CONTROL PLAN

City of Morgan Hill ENGINEERING AND UTILITIES 17575 Peck Avenue Morgan Hill, CA 95037 (408)778-6480 Fax: (408)779-7236 RECEIVED: C-SEWER - CITY ENGINEER RECEIVED: 5/4/2021 RECEIVED: 5/4/2021	DRAWN CHECKED	DESIGN RJA	RAIA DATE	HOR VERT	NONE NONE
	APPROVED S.C.	DATE 5/4/2021	JOB NUMBER 162016-2001	RECEIVED: C-SEWER - CITY ENGINEER RECEIVED: 5/4/2021 RECEIVED: 5/4/2021	

LOCATION OF UTILITIES

LOCATION OF UTILITIES SHOWN IS ONLY APPROXIMATE. DETERMINATION OF THE ACTUAL LOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
U.S.A. 1-800-227-2600



LEGEND

PROPOSED	DESCRIPTION
SD	PROJECT BOUNDARY
SS	LOT LINE
W	CENTERLINE
SD	CURB & GUTTER
SS	EDGE OF PAVEMENT
W	STORM DRAIN
	SANITARY SEWER
	WATER
	GAS
	OVERHEAD UTILITIES
	MANHOLE
	INLET
	SANITARY SEWER LATERAL
	FIRE HYDRANT
	WATER VALVE
	WATER SERVICE
	ELECTROLIER
	STATION
	HANDICAP RAMP
	LOT NUMBER
	WALL
	CONTOUR
	SPOT ELEVATION
	SLOPE & DIRECTION
	DIRECTION OF SURFACE FLOW

1+00.00	348	350.7	350	349.2
0.5%	OR	2%	MAX	MIN
W	OR	W	TRANS	TRANS
L	LF	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
GR	TDC	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
HOA	TMC	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
HP	IMP	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
IMP	IMPROVEMENTS	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
IRV	INVERT	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
IRR	IRRIGATION	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
UT	JOINT TRENCH	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
ST	STANDARD	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
SD	SIDEWALK	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
TC	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
VC	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
W	WATER	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
HM	WATER METER	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
W	WEST	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER
WSE	WATER SERVICE	TOP OF CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER	TOP OF DEPRESSED CURB & GUTTER

ABBREVIATIONS

AB	AGGREGATE BASE	(N)	NORTH
AC	ASPHALTIC CONCRETE	(NE)	NORTHEAST
ADA	AMERICANS WITH DISABILITIES ACT	NO.	NUMBER
BNDY	BOUNDARY	N.T.S.	NOT TO SCALE
BC	BEGIN CURVE	OC	ON CENTER
BVC	BEGINNING VERTICAL CURVE	PAD	PAVED
B/C	BEGINNING CURVE	P/W	PAVED WITH
BW	BACK OF WALK	PL or R	PROPERTY LINE
C&G	CURB & GUTTER	PRC	POINT OF REVERSE CURVATURE
CI	CURB INLET	PRUE	PRIVATE UTILITY EASEMENT
CL	CENTERLINE	PSUE	PRIVATE SERVICE UTILITY EASEMENT
CO	CLOSED OUT	PT	POINT
DIA	DIAETER	PVC	POLYVINYL CHLORIDE PIPE
DWG	DRAWINGS	PVI	POINT OF VERTICAL INTERSECTION
DWY	DRIVEWAY	R	RIGHT OF RADIUS
E	EAST	RCP	REINFORCED CONCRETE PIPE
EC	END CURVE	R/W	RIGHT OF WAY
ED	END OF PAVEMENT	RET	RETURN
EV	END VERTICAL CURVE	S	SLOPE
EX	EXISTING	(S)	SOUTH
EX SD	EXISTING PAVEMENT	(SE)	SOUTHEAST
EX SS	EXISTING SIDEWALK	(SW)	SOUTHWEST
EX W	EXISTING CURB & GUTTER	SD	STORM DRAIN
ELECT	ELECTROLIER	SDAD	STORM DRAIN MANHOLE
ELEV	ELEVATION	SDMH	SANITARY SEWER AREA DRAIN
EP	EDGE OF PAVEMENT	SDR	SANITARY SEWER DRAIN

RJA STANDARD GENERAL NOTES

- The Contractor agrees that, in accordance with generally accepted construction practices, the Contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The Contractor further agrees to defend, indemnify and hold owner, City, and Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, exempting liability arising from the sole negligence of the Engineer.
- Excavation shall be adequately shored, braced and sheeted so that the earth will not slide or settle and so that all existing improvements of any kind will be fully protected from damage. Any damage resulting from a lack of adequate shoring, bracing and sheeting shall be the responsibility of the Contractor, and he shall effect necessary repairs or reconstruction at his own expense. Where the excavation for a conduit, trench, and/or structure is five feet or more in depth, the Contractor shall provide adequate sheeting, shoring and bracing or equivalent method, for the protection of life, or limb, which shall conform to the applicable construction safety orders of the Division of Industrial Safety of the State of California. The Contractor shall always comply with OSHA requirements.
- It is the responsibility of the Contractor to obtain permits necessary to perform the work shown in these plans from the appropriate agencies.
- The Contractor shall take effective action to prevent the formation of any airborne dust nuisance and shall be responsible for any damage resulting from his failure to do so.
- The Contractor shall provide for ingress and egress for private property adjacent to work throughout the period of construction.
- The Contractor shall provide all lights, signs, barricades, flagmen or other devices necessary to provide for safety.
- The Contractor shall post emergency telephone numbers for police, fire, ambulance, and those agencies responsible for the maintenance of utilities in the vicinity of the job site.
- Stationing hereon is along street centerline unless otherwise shown or indicated.
- All return radii and curb data are to face of curb.
- All quantities and pay items are and will be based on horizontal measurements.
- Lengths of sanitary sewers are horizontal distances from center to center of structures, rounded off to the nearest foot.
- Existing underground utilities and improvements are shown in their approximate locations based upon record information available to the Engineer at the time of the preparation of these plans. Locations may not have been verified in the field and no guarantee is made as to the accuracy or completeness of the information shown. The Contractor shall notify utility companies at least 2 working days in advance of Construction to field locate utilities. Call Underground Service Alert (USA) at 1-800-642-2444. It shall be the responsibility of the Contractor to determine the existence and location of utilities shown on these plans, indicated in the field by location services or otherwise by factors visible at or adjacent to the job site. Any additional cost incurred as a result of the Contractor's failure to verify locations of existing utilities prior to beginning construction shall be borne by the Contractor and is deemed included and merged in the contract unit price.
- All existing utilities and improvements that become damaged during construction shall be completely restored to the satisfaction of the City Engineer at the Contractor's sole expense.
- Any relocation of public utilities shall be conducted in accordance with any and all requirements of the utility company, including fees, bonds, permits, and working conditions, etc. This work shall be done at no expense to the utility company. The owner shall pay the cost of all such relocation work including fees, bonds, permits, etc.
- Ruggeri-Jensen-Azar & Associates does not specify or recommend the use or installation of any material or equipment which is made from, or which contains asbestos for use in the construction of these improvements. Any party installing or using such materials or equipment shall be solely responsible for all injuries, damages, or liabilities of any kind caused by the use of such materials or use of such equipment. The provisions of this note shall apply unless they are expressly waived in writing by Ruggeri-Jensen-Azar & Associates.
- The Contractor shall meet and follow all NPDES requirements in effect at the time of construction.
- Should it appear that the work to be done or any matter relative thereto is not sufficiently detailed or explained on these plans, the Contractor shall contact the City Engineer for such further explanations as may be necessary.
- Existing monuments that are destroyed shall be reconstructed at the Contractor's cost.

PROJECT INFORMATION

- City of Morgan Hill

Engineering & Utilities Department
17575 Peak Avenue
Morgan Hill, California 950378
(408) 310-4642
Contact: David Gittleson
- Civil Engineer:

Ruggeri-Jensen-Azar
8055 Camino Arroyo
Gilroy, California 95020
(408) 848-0300
Fax: (408) 848-0302
Contact: Jim Schul, P.E.
- Geotechnical Engineer:

Cornerstone Earth Group
1259 Oakmead Park
Sunnyvale, CA 94085
(408) 245-4600
Contact: Nick Devlin, PE
- The Contractor shall notify Ruggeri-Jensen-Azar two working days prior to the need for construction survey stakes. Cut sheets are to be supplied to the City Engineer 24 hours prior to construction relating to the cut sheets.
- Underground Utilities: Prior to final preparation of subgrade and placement of base material, all underground utility mains shall be installed and service connections made to each lot. Service from public utilities and from sanitary sewers shall be made in such a manner that will prevent the necessity of disturbing the street pavement, curb, gutter, and sidewalk when surface connections are made.
- The Contractor shall be held responsible for any field changes made without written authorization from the City Engineer.
- Trench dewatering may be required due to groundwater infiltration. Dewatering shall be done per the Geotechnical Engineer's recommendations as approved by the City Engineer.
- Construction traffic shall access the project site at location shown on the approved Erosion Control Plan.
- Inspections shall be coordinated with the City of Morgan Hill and scheduled 2 working days in advance of when inspections are needed. Hours of inspection are from 8:00 am to 5:00 pm.

CONSTRUCTION NOTES

PAVING

- Paving shall conform to the specifications of the City of Morgan Hill.
- A prime coat of liquid asphalt, conforming to Section 39 of the Standard Specifications, shall be applied to all areas receiving asphalt concrete at the rate of 0.25 gallons per square yard.
- Asphalt concrete (AC) shall consist of a mixture of sand, mineral aggregate, and liquid asphalt conforming to Standard Specifications type "A", 1/2" maximum, medium grading. Paving asphalt shall have viscosity grade AR4000. Asphalt concrete shall be a minimum of 4" in thickness and placed in lifts 2" in minimum thickness. No RAP allowed.
- Tack coat of asphalt emulsion, conforming to the Standard Specifications, shall be applied to existing asphalt concrete surfaces and vertical concrete surfaces to receive new asphalt concrete, and to any lift in advance of spreading the next lift.
- Seal coat shall be diluted with an equal amount of water and applied at the rate of 0.10 gallons per square yard to the surface of all new asphalt concrete pavement, which shall be free of dust and loose material prior to application. Seal coat shall be applied within 7 days of placement of top lift of asphalt.
- Materials and installation of portland cement concrete curb, gutter, and sidewalk shall conform to Section 90 of Caltrans Specifications, "Portland Cement Concrete", and the City Standard Specifications and City Standard Details.
- All valve boxes and manholes to be set flush with finished grade unless otherwise noted.
- Aggregate base (AB) shall be Class 2 and shall be spread and compacted to conform to Section 26 of the Standard Specifications.

SANITARY SEWER

- All sanitary sewer pipe, 15 inch or smaller, shall be PVC SDR-26 and per City of Morgan Hill specifications. Pipe shall be installed in compliance with the manufacturer's recommended practice.
- Sanitary sewer lines shall be constructed with a laser guided device to the alignment and elevations shown on the plans. Sanitary sewer manholes shall be constructed to the Standard Specifications and Details of the City of Morgan Hill, Standard Details S-4.
- Trench shall be constructed per the specifications of the City of Morgan Hill. Initial backfill shall be compacted with lightweight mechanical tampers or vibrating plate compactors. Heavy equipment should not be used to compact backfill immediately above the pipe. Jetting will not be allowed.

CITY OF MORGAN HILL STANDARD DETAILS

DWG No.	DESCRIPTION
S-2	SEWER LATERAL
S-4	SANITARY SEWER MANHOLE
S-5	DROP MANHOLE
S-6	STANDARD MANHOLE FRAME & COVER
U-3	TRENCH RESTORATION/BACKFILL FOR TRENCH WIDTHS GREATER THAN 18"
A-31	STANDARD CITY MONUMENT

WORK ACCEPTED:	INSPECTOR:	DRAWN:	DESIGN:	HOR:
		RJA	RJA	NONE
CHECKED:				VERT: NONE
APPROVED:	DATE:		JOB NUMBER:	
		<i>S.C.</i>	5/11/2021	162016-2001
NO.	DESCRIPTION	DATE	BY	
	Revisions			
SCOTT C. CREER - CITY ENGINEER R.C.E. #58879				



City of Morgan Hill
Public Works Department
17575 Peak Ave. Morgan Hill, CA 95037 (408)778-6480, Fax (408)779-7236

RJA
RUGGERI-JENSEN-AZAR
ENGINEERS • PLANNERS • SURVEYORS
8055 CAMINO ARROYO GILROY, CA 95020
PHONE: (408) 848-0300 FAX: (408) 848-0302

NOTES
EAST FIFTH STREET SEWER MAIN
PROJECT

FILE NUMBER:
307T17
PRINT DATE:
MAY 2021
SHEET NUMBER:
2 OF 10

MONUMENT BOX FRAME SHALL BE FLUSH WITH SURROUNDING PAVEMENT

COVER INSTALLATION PLAN VIEW

— CHRISTY G5 BOX OR APPROVED EQUAL
I.D. COVER FRAME + 1'-0"

EXIST PAVEMENT

BASE MATERIAL

NON-METALLIC FORM TUBE (MAY BE LEFT IN PLACE)

P.C. CONCRETE

BRONZE SURVEY MARKER 2 1/2" DIA WITH MONUMENT POINT PUNCHED ON DISK (INCLUDING PLS # OR PRE-1982 RCE #)

GRANULAR MATERIAL

6" DIA. BY 1'-0" MIN. NON-METALLIC (SONO-TUBE) FORM TUBE (MAY BE LEFT IN PLACE)

P.C. CONCRETE

SECTION A-A
STANDARD MONUMENT INSTALLATION

<p>City of Morgan Hill Public Works Department</p> <p><i>Jim Ashcroft</i> CITY ENGINEER</p> <p>4/1/96 DATE</p> <p>3/15/07 REVISED</p>	<p>STANDARD CITY MONUMENT</p>	<p>DRAWING NO. A-31</p>
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PLAN

NOTES:

1. THE CONCRETE CONTRACTOR SHALL STAMP AN "S" ON THE FACE OF CURB DIRECTLY ABOVE THE LATERAL.
2. FOR ALLOWABLE CONNECTIONS AND FITTINGS TO EX. MAINS, SEE STD. S-3
3. ALL CONNECTIONS SHALL BE MADE ABOVE THE SPRING LINE OF THE SEWER MAIN

PROFILE

CITY OF MORGAN HILL
Public Works Department

Jim Scherff
CITY ENGINEER

4/1/96 3/15/07
DATE REVISED

SEWER LATERAL

DRAWING NO.
S-2

PAVEMENT GRADE

STANDARD FRAME & COVER SEE DTL. S-6

2" MIN ASPHALT CAP

TOP OF PIPE SHALL BE CUT FLUSH WITH MANHOLE INSIDE WALL

SEE NOTE 4.

VARIES

12" X 10" CLASS "3" CONCRETE COLLAR (CONTRACTOR IS TO AVOID EXCAVATING INTO SUBGRADE WHEN INSTALLING COLLAR)

12" X 10" CLASS "3" CONCRETE COLLAR (CONTRACTOR IS TO AVOID EXCAVATING INTO SUBGRADE WHEN INSTALLING COLLAR)

4' - 0" STD.

4" MIN.

MORTAR ALL JOINTS SEE NOTE 3.

RUBBER WATER STOP O-RINGS (TYP.)

1' - 8" (SEE NOTE 1)

6" THRU 36" DIA.

SECTION B-B

LATERAL

SEE NOTE 6

3" MIN.

6" MIN.

SLOPE = 1" PER FOOT MIN. (.5' MAX.) GROUT AND SHAPE TO SMOOTH FINISH.

CAST-IN-PLACE CLASS "B" CONCRETE BASE

D1

6" THRU 36"

10"

NOTES:

1. FOR CHANNELIZATION OF INTERCEPTING LINES, PROVIDE SMOOTH TRANSITIONS (APPROX. 1'-8" INSIDE RADIUS) TOWARDS DOWNSTREAM FLOW OF MAIN.
2. PRECAST CONCRETE PIPE SECTIONS, ADJUSTMENT RINGS AND TAPERED SECTIONS SHALL CONFORM TO CLASS II REINFORCED CONCRETE PIPE (ASTM C 478).
3. USE "RAMECK" TYPE GASKET MATERIAL ON ALL JOINTS. ALL JOINTS SHALL BE SMOOTHLY FINISHED WITH WATER PROOF MORTAR.
4. THE USE OF MORE THAN 12" OF ADJUSTING RINGS TO CONFORM TO GRADE SHALL NOT BE PERMITTED.
5. CONCENTRIC MANHOLES MAY BE USED WHEN A UTILITY CONFLICT OCCURS OR WHEN APPROVED BY THE CITY ENGINEER.
6. LATERALS MAY BE CONNECTED DIRECTLY INTO THE MAN HOLE BARREL SECTION AT THE END OF CUL DE SACS. OTHER APPLICATIONS REQUIRE APPROVAL BY THE CITY ENGINEER.

City of Morgan Hill
Public Works Department

Jim Oehring
CITY ENGINEER

4/1/96
DATE

3/15/07
REVISED

SANITARY SEWER MANHOLE PIPE SIZES 6" TO 36"

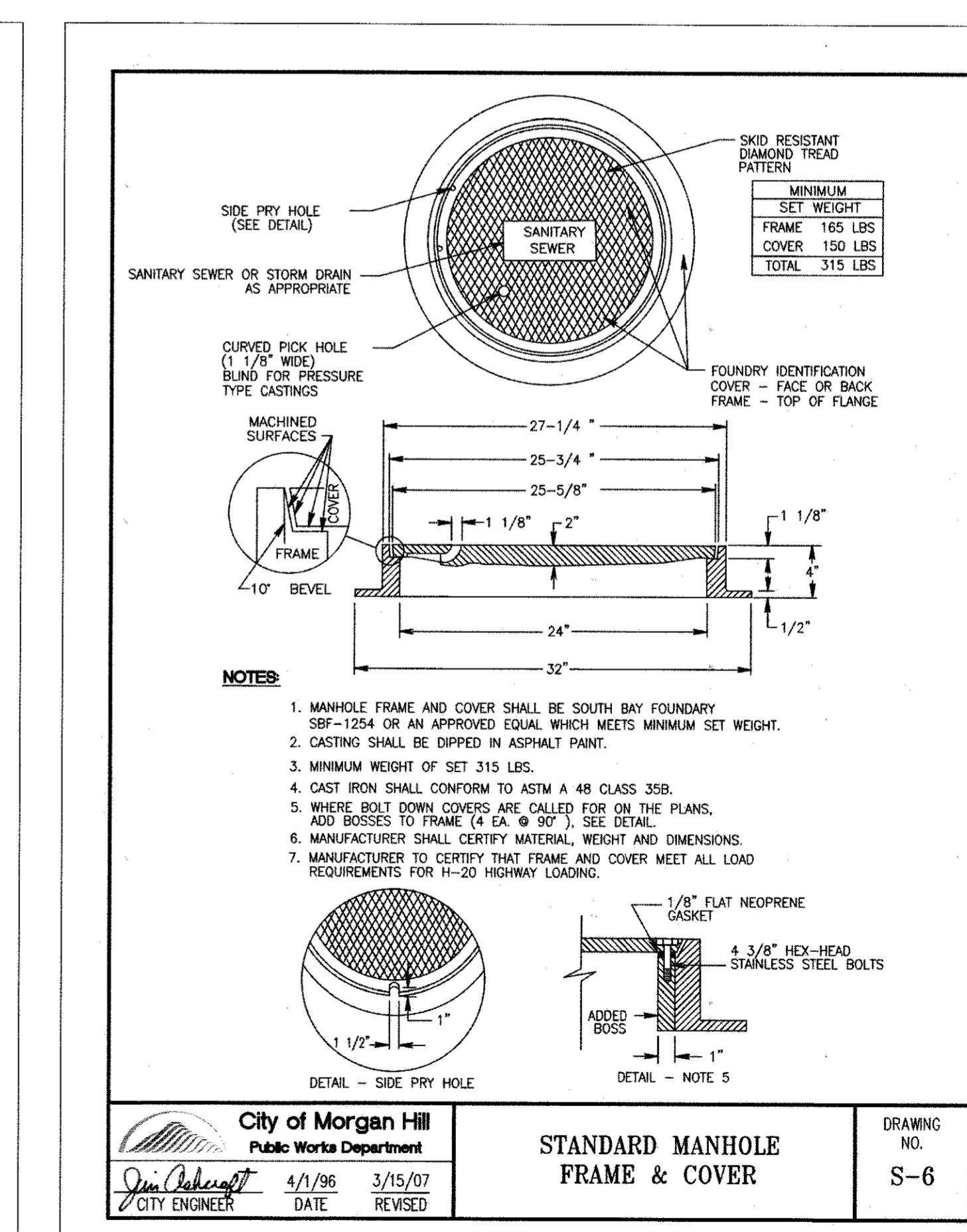
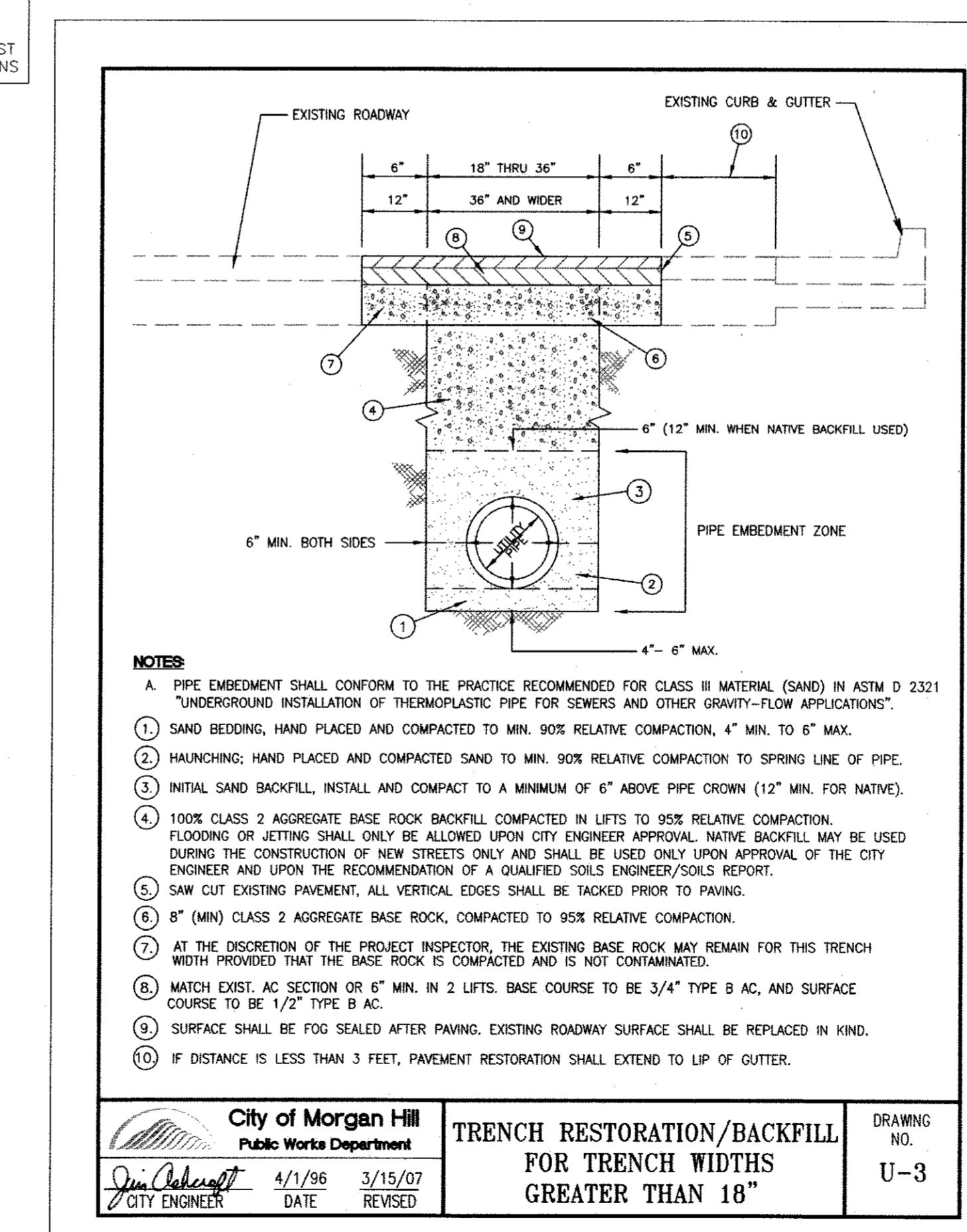
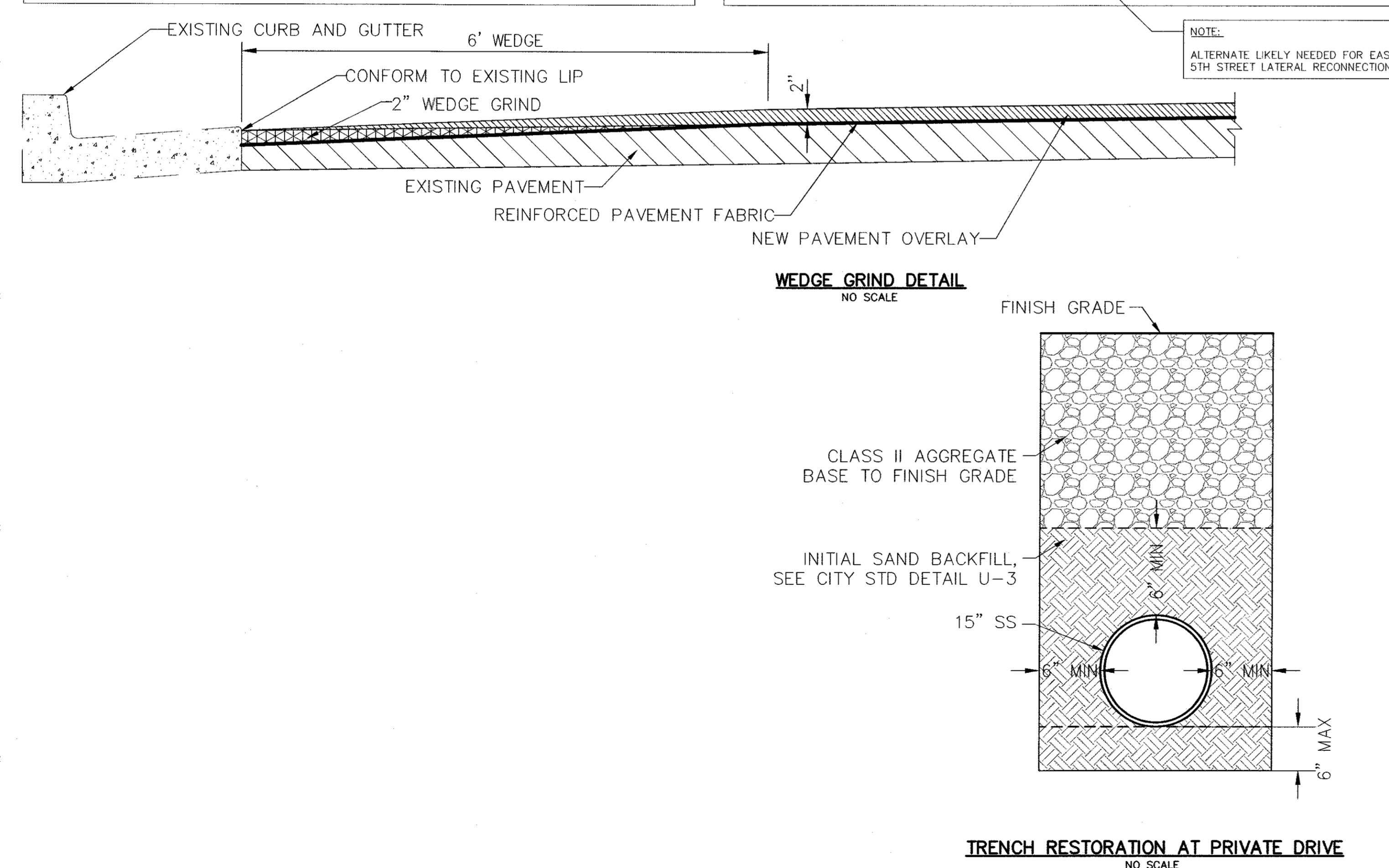
DRAWING NO.
S-4

NOTES:

#3 RE-BAR MAT AT 12" O.C.

1. THIS DETAIL SHALL BE USED WHEN DISTANCE "X" IS GREATER THAN 2'-0" FROM INVERT OUT.
2. "OUTSIDE" DROP MANHOLE SHOWN. "INSIDE" MANHOLES MAY ONLY BE USED WITH WRITTEN PERMISSION OF THE CITY ENGINEER.
3. ALL PIPING SHALL BE SDR 26 PVC OR ABS.
4. CONNECTION TO PRE-CAST SECTION OF MANHOLE SHALL BE SEALED WITH "RAMNECK" TYPE GASKET MATERIAL AND SHALL BE MORTARED AS DESCRIBED IN NOTE 3 OF DETAIL S-4.

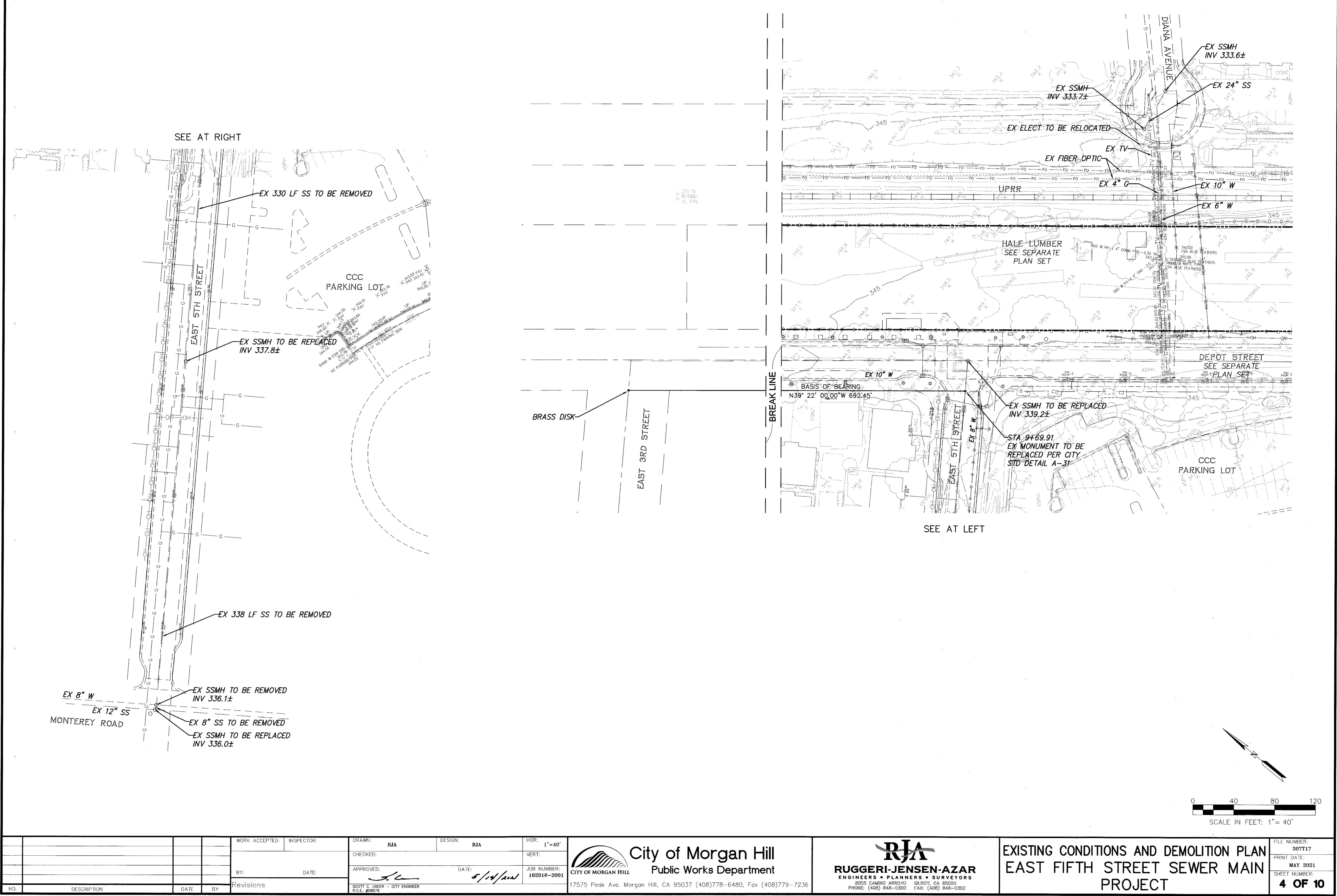
 <p>City of Morgan Hill Public Works Department</p> <p><i>Jim Oberhoff</i> CITY ENGINEER</p>	<p>3/15/07</p> <p>DATE</p> <p>REVISED</p> <p>DROP MANHOLE</p>	<p>DRAWING NO.</p> <p>S-5</p>
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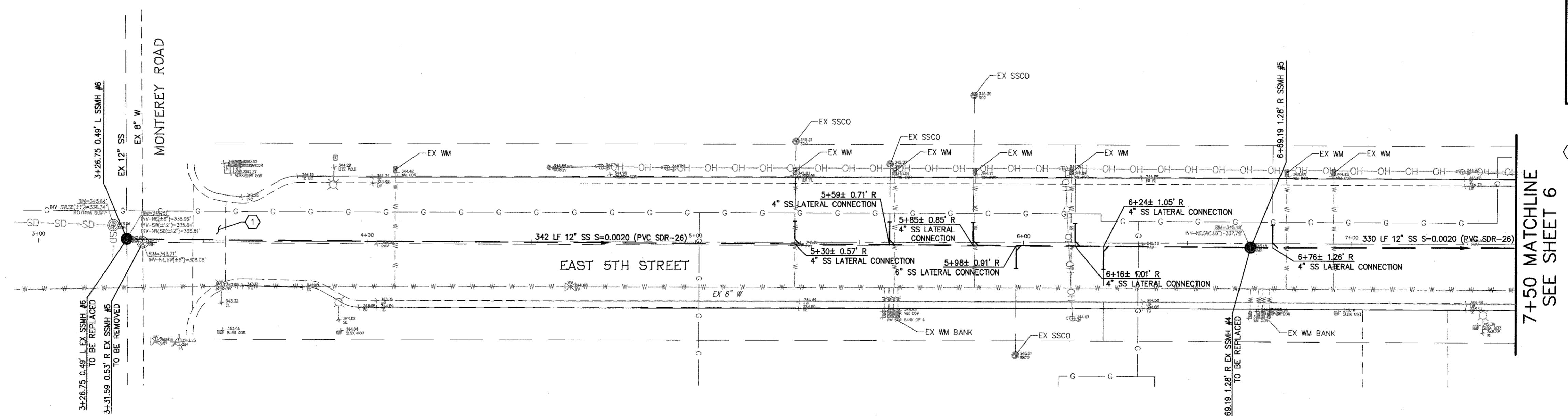
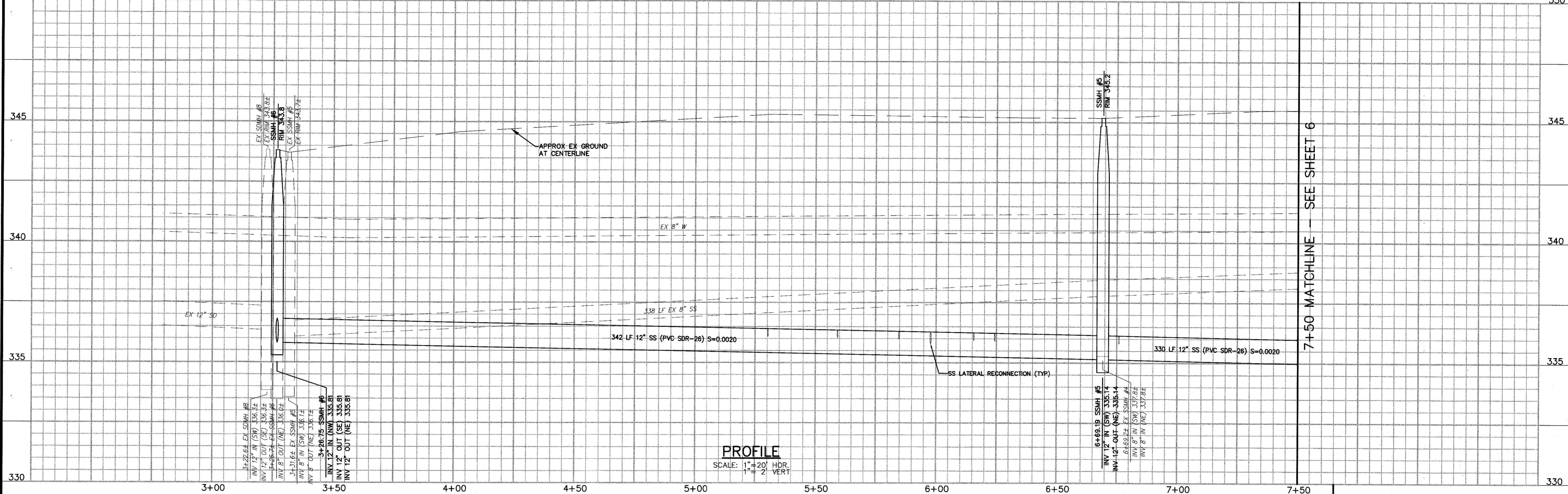


				WORK ACCEPTED:	INSPECTOR:
				BY:	DATE:
NO.	DESCRIPTION	DATE	BY	Revisions	



DETAILS
EAST FIFTH STREET SEWER MAIN
PROJECT





SS LINE

PLAN

SCALE: 1"=20'

No.	DESCRIPTION

		WORK
		BY:
TE	BY	Revisi

CEPTED:	INSPECTOR:	DRAWN:
		CHECKED:
DATE:		APPROVED:
IS		SCOTT C. CREER R.C.E. #58879

RJA	DESIGN: RJA	HO
		VE
	DATE: 5/14/2021	JO 1
- CITY ENGINEER		

DR: 1"=20'
ERT: 1"= 2'
B NUMBER:
62016-2001

City of Morgan Hill
Public Works Department

17575 Peak Ave. Morgan Hill, CA 95037 (408)778-6480, Fax (408)779-7236

**SANITARY SEWER LINE - BEGIN TO 7+50
EAST FIFTH STREET SEWER MAIN
PROJECT**

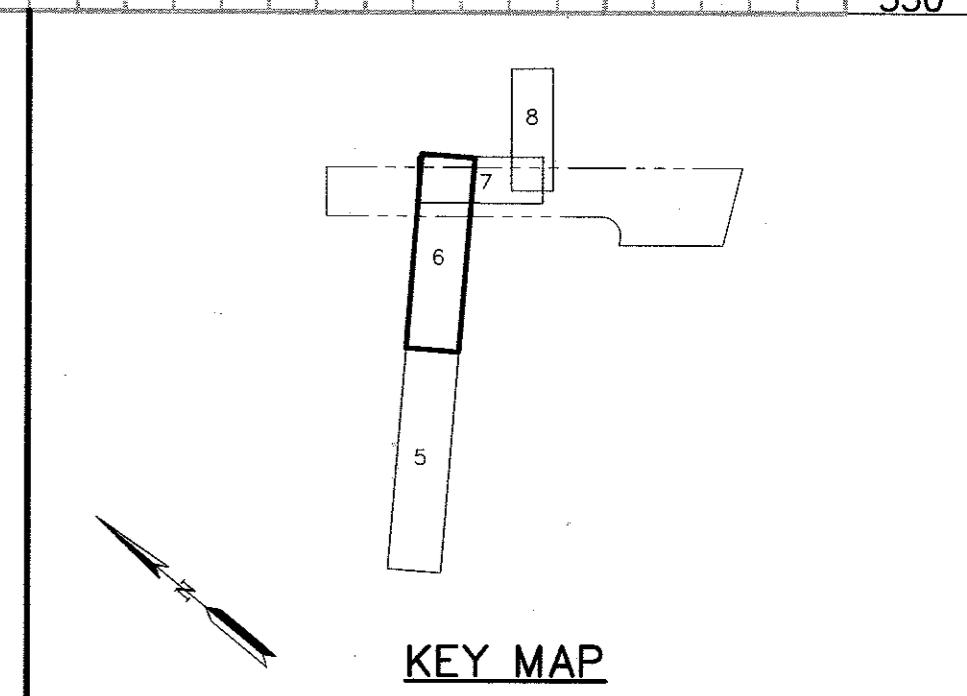
FILE NUMBER:
307T17

PRINT DATE:
MAY 2021

SHEET NUMBER:
5 OF 10

SEE SHEET 5
7+50 MATCHLINE

7. FOUNDATIONS



CONSTRUCTION NOTES:

REMOVED
DROP MANHOLE PER CITY STD DWG NO. S-5 (SEE SHEET 3).
REMOVE AND REPLACE STAMPED PEDESTRIAN CROSSWALK AND STRIPING IN KIND,
SCOPE JOINT TO SCOPE JOINT.

LINE TABLE		
LINE	BEARING	LENGTH
L1	N55°09'32"E	669.91'
L2	N55°09'32"E	30.09'
L3	N50°38'00"E	106.00'

SEE SHEET 7

SS-LINE

PLAN

SCALE: 1"=20'

No.	Description

		WORK ACCEPTED:
		BY:
		Revisions
BY		

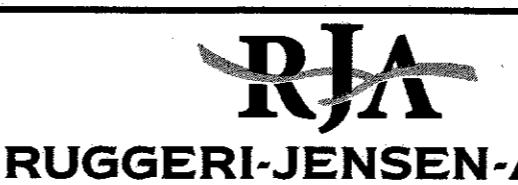
INSPECTOR:	DRAWN: RJA	DESIGN: RJA	HOR: 1
DATE:	CHECKED:		VERT: 1
	APPROVED: 	DATE: 	JOB NUM 162016
	SCOTT C. CREER - CITY ENGINEER R.C.E. #58879		



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LAZAR

10

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SA
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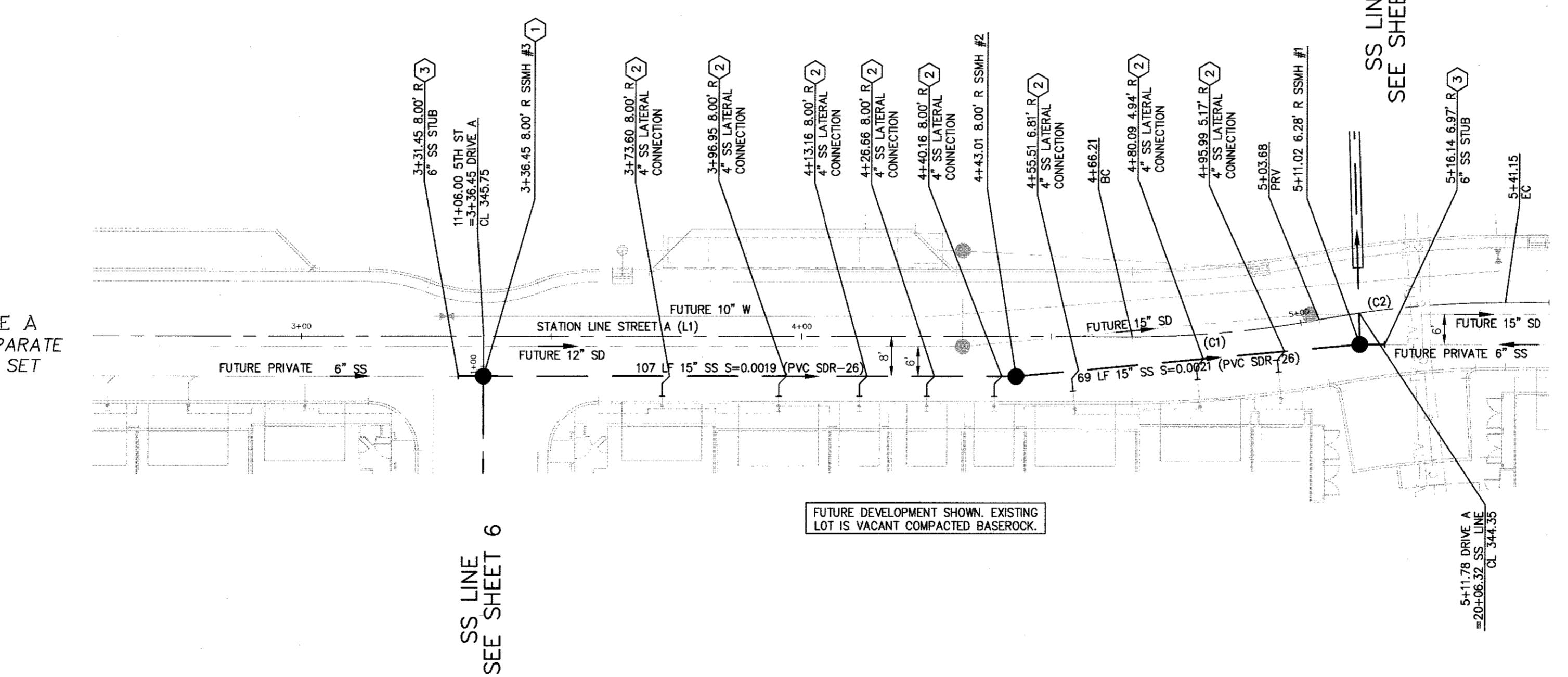
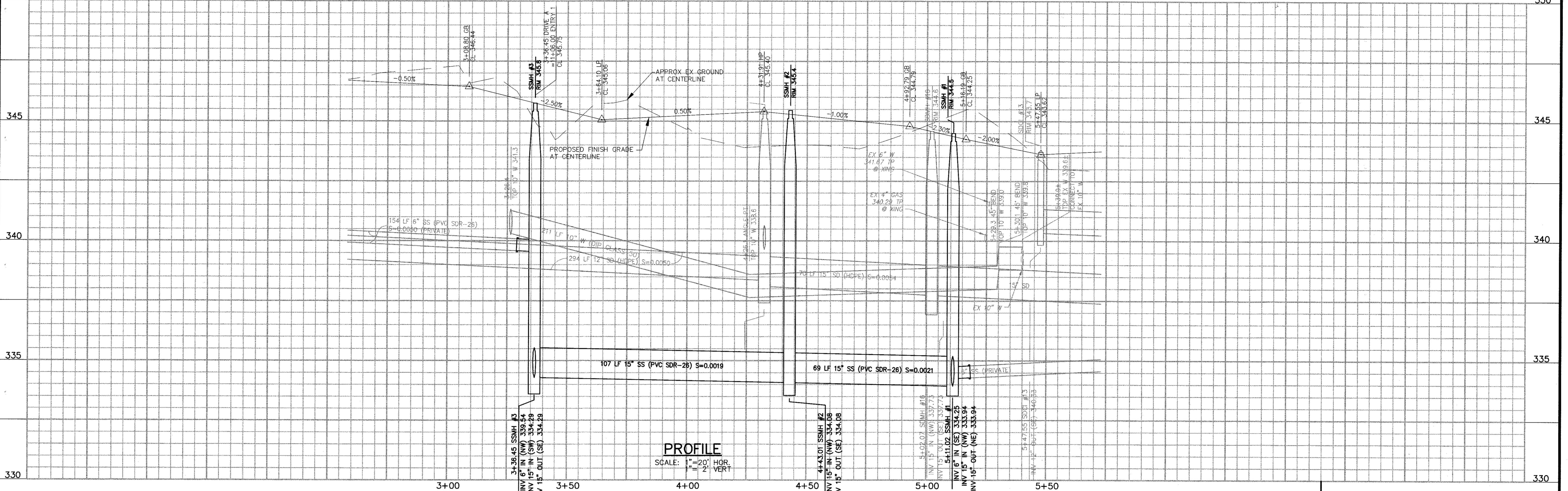
26

sanitary sewer line - 7+50 to drive a west fifth street sewer main project

NUMBER:
307T17

DATE:
MAY 2021

NUMBER:
OF 10



DRIVE A
SEE SEPARATE
PLAN SET

SS LINE 6

DRIVE A

PLAN

	WORK ACCEPTED:	INSPECTOR:
BY:	DATE:	
Revisions		

DRAWN: RJA	DESIGN: RJA	HOR: 1"
CHECKED:		VERT: 1"
APPROVED: 	DATE: 5/14/2021	JOB NUMB 162016-
SCOTT C. CREER - CITY ENGINEER R.C.E. #58879		



City of Morgan Hill

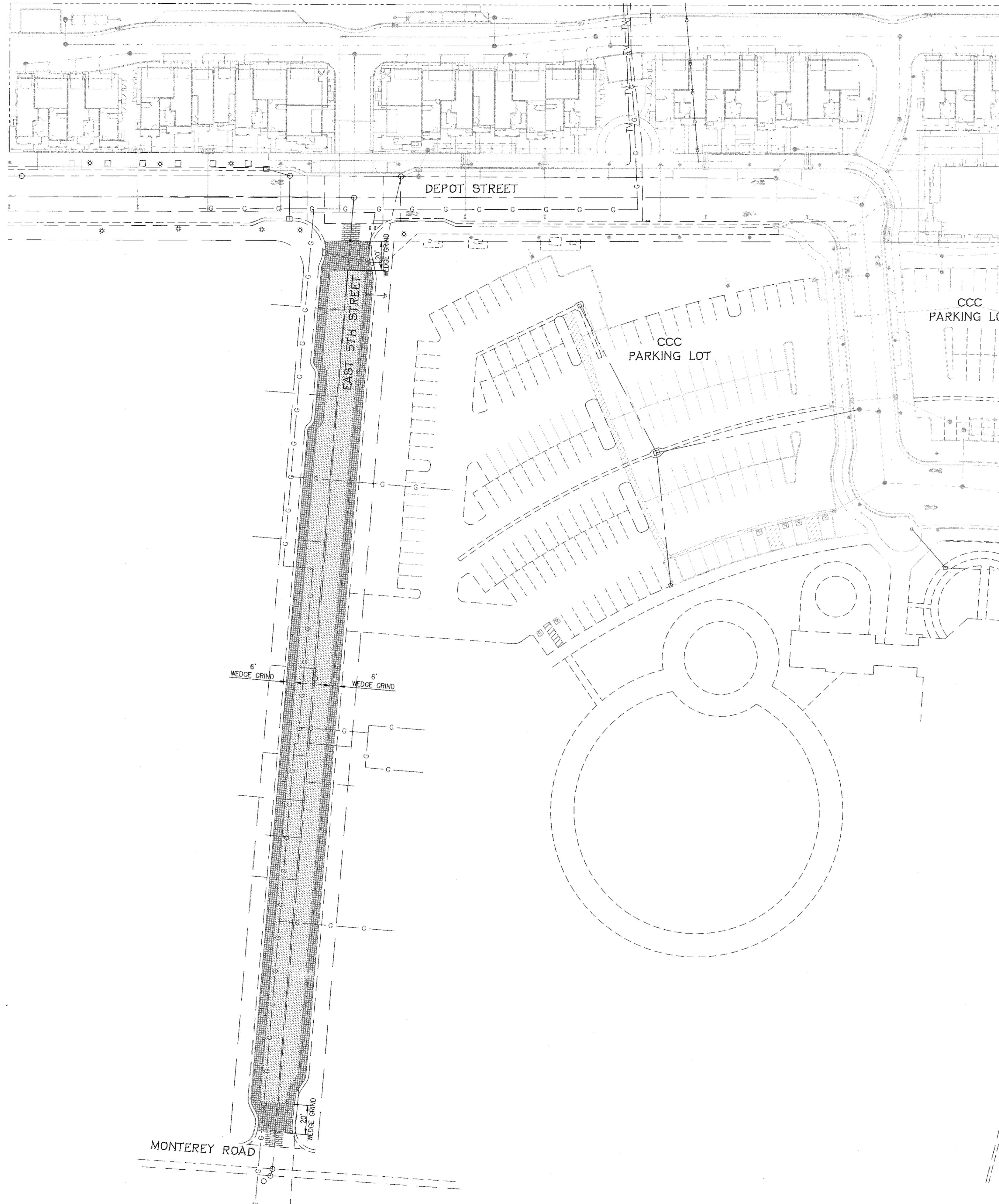
Public Works Department

SANITARY SEWER LINE - WITHIN DRIVE A EAST FIFTH STREET SEWER MAIN PROJECT

FILE NUMBER:
307T17

PRINT DATE:
MAY 2021

HEET NUMBER:
7 OF 10

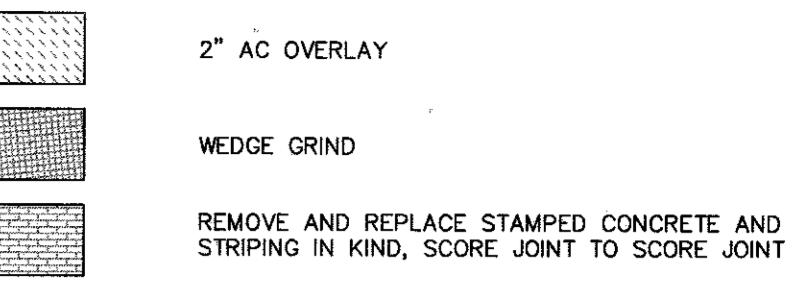


CONSTRUCTION NOTES

PAVING

1. Paving shall conform to the specifications of the City of Morgan Hill. "Standard Specifications" refers to the State of California Department of Transportation (CALTRANS) Standard Specifications, July 2018 Edition, as referenced below.
2. A prime coat of liquid asphalt, conforming to Section 39 of the Standard Specifications, shall be applied to all areas receiving asphalt concrete at the rate of 0.25 gallons per square yard.
3. Asphalt concrete (AC) shall consist of a mixture of sand, mineral aggregate, and liquid asphalt conforming to Standard Specifications type "A", 1/2", maximum, medium grading. Paving asphalt shall have viscosity grade AR4000. Asphalt concrete shall be a minimum of 4" in thickness and placed in lifts 2" in minimum thickness. No RAP is allowed in asphalt mix.
4. Tack coat of asphalt emulsion, conforming to the Standard Specifications, shall be applied to existing asphalt concrete surfaces and vertical concrete surfaces to receive new asphalt concrete, and to any lift in advance of spreading the next lift.
5. Seal coat shall be diluted with an equal amount of water and applied at the rate of 0.10 gallons per square yard to the surface of all new asphalt concrete pavement, which shall be free of dust and loose material prior to application. Seal coat shall be applied within 7 days of placement of top lift of asphalt.
6. All valve boxes and manholes to be set flush with finished grade unless otherwise noted.

LEGEND



		WORK ACCEPTED:	INSPECTOR:	
		DRAWN:	DESIGN:	HOR: 1"=40'
		CHECKED:		VERT: NONE
		APPROVED:	DATE:	JOB NUMBER:
			5/14/2021	162016-2001
NO.	DESCRIPTION	DATE	BY	

Revisions
SCOTT C. CREER - CITY ENGINEER
R.C.E. #68879

BY: DATE:
5/14/2021

APPROVED:
CITY OF MORGAN HILL

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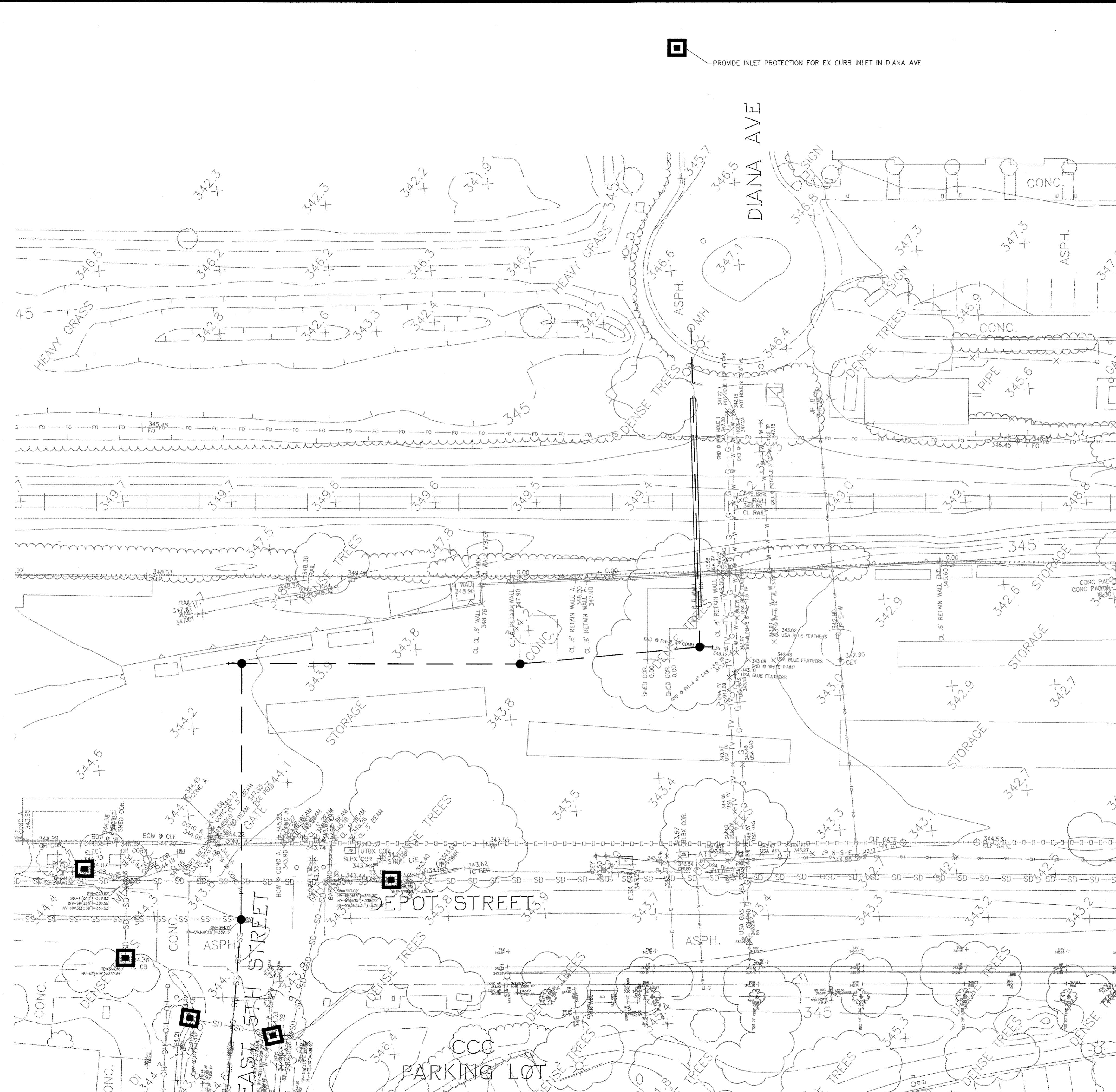
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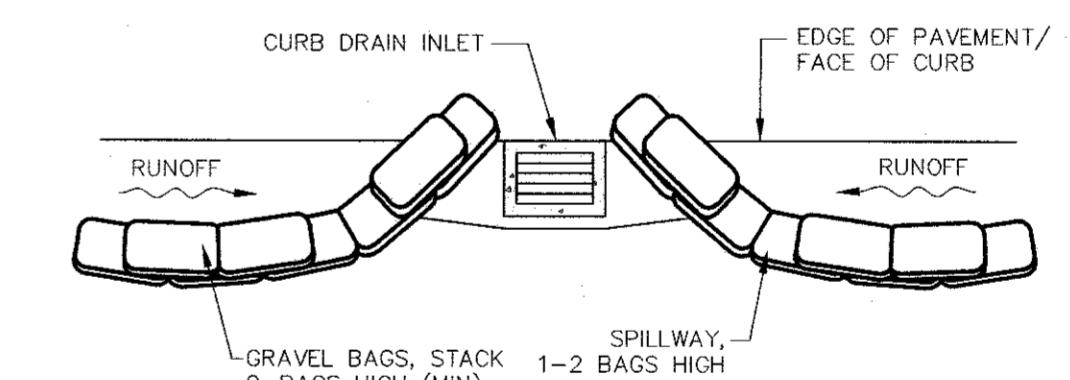
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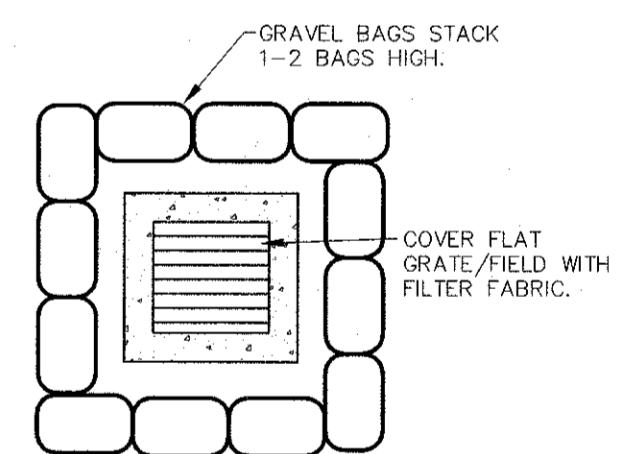
 DRAIN INLET SEDIMENT BARRIER

CURB AND FIELD INLET SEDIMENT BARRIER NOTES

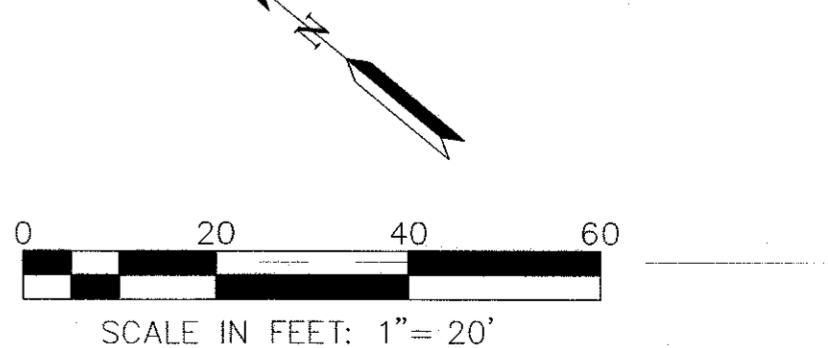
1. CONSTRUCT ON GENTLY SLOPING STREETS (LESS THAN 5%) WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION. INSPECT AND REPAIR INLET BARRIERS AFTER EACH STORM EVENT.
2. REMOVE SEDIMENT WHEN ONE HALF OF THE BARRIER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO ANOTHER FILTERING DEVICE.
3. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
4. OVERLAP BAGS AND PACK THEM TIGHTLY TOGETHER. LEAVE ROOM UPSTREAM OF BARRIER FOR WATER TO POND.
5. CONTRACTOR TO COMPLY WITH ALL OF THE NPDES GENERAL PERMIT CONDITIONS AND REGULATIONS.



OPTION 1
DRAIN INLET SEDIMENT BARRIER
NO SCALE

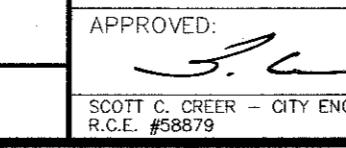


OPTION 2
DRAIN INLET SEDIMENT BARRIER
NO SCALE



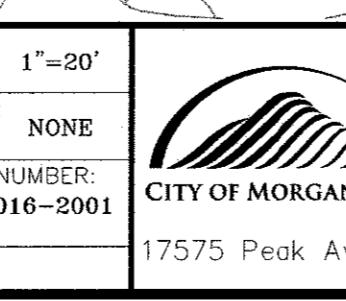
NO.	DESCRIPTION	DATE	BY
	Revisions		

WORK ACCEPTED:	INSPECTOR:	DRAWN:	DESIGN:	HOR:
		RJA	RJA	1''=20'
BY:	DATE:			VERT: NONE

APPROVED: 
SCOTT C. GREER - CITY ENGINEER
R.C.E. #58879

DATE: 5/14/2021

JOB NUMBER: 162016-2001



City of Morgan Hill
Public Works Department
17575 Peak Ave, Morgan Hill, CA 95037 (408)778-6480, Fax (408)779-7236



RUGGERI-JENSEN-AZAR
ENGINEERS • PLANNERS • SURVEYORS
8055 CAMINO ARROYO GILROY, CA 95020
PHONE: (408) 848-0300 FAX: (408) 848-0302

EROSION CONTROL PLAN
EAST FIFTH STREET SEWER MAIN
PROJECT

FILE NUMBER:
307717
PRINT DATE:
MAY 2021
SHEET NUMBER:
10 OF 10