

General Notes:

- Temporary Benchmark - Based on a City approved benchmark as shown on these plans.
- All existing elevations shall be field verified by contractor unless otherwise noted.
- All survey monuments shall be installed at locations shown on the corresponding final map before acceptance of the subdivision.
- Contractor shall not destroy existing permanent survey monuments.
- 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.
- Developer 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.
- 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 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 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.
- Contractor shall only use equipment provided with a spark arrestor device to reduce a potential fire hazard.

11. Right of Modification:

Approval of this plan does not release Subdivider 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 deviation 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.

12. 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.

13. 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. Refer to SWPPP Best Practices.

14. 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 the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) while working within the public right-of-way. Two traffic lanes

(11' 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.

15. Trench Excavation:

Contractor shall exercise diligence in reviewing the approved Soils Report and other available resources to familiarize himself with the soil conditions to be 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 sand, pea gravel, or other approved granular material. Clean 1/4" or 1/2" pea gravel shall be used in areas of moist condition, or 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 approved granular material. Trench excavation material deposited adjacent to the trench shall be placed and located to prevent spillage into the open trench.

16. 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.

17. 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 City also requires the use of hot mix "cut back" type A.C. from the months of Oct. thru May. The use of trench plates is allowed, provided the Contractor covers all edges of the plates with cold mix's arterial streets trench plates need to be recessed such that the plates are flush with the existing pavement. It shall be the Contractor's responsibility to maintain daily, including weekends, 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 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.

18. 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 butt joint. Conform paving by method of abrasive grinding will be allowed upon approval of the City Engineer.

19. Sanitary Sewers:

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 (w/Electronic Copies) 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 wye branch lateral, and their direction. A Hydro Flush and Wayne Ball method must be completed.

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

21. The end of each new lateral shall be marked as shown in Detail S-2. The concrete contractor shall stamp an "S" on the face of curb directly above the lateral.

22. Water Lines:

Contractor shall not turn off or on any valves belonging to the City's water system. Only 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.

23. Connections requiring shut down of the system shall be done between the hours of 12:00 Midnight and 6:00 AM, and only upon coordination with the Department of Public Works.

24. All water lines shall be tested after completion of the trench backfill and compaction of the final base material, but prior to placement of the final roadway surface.

25. Contractor shall place marker posts adjacent to all air relief valves and blow off assemblies

along water mains located in unimproved areas or fields. The posts shall be pressure treated redwood 4"x4"x6", painted white, buried 2'-6", and inscribed with "W/A.V." (for air relief valves) or "B.O." (for blow off assemblies), in 3 inch high carved letters painted blue.

26. The concrete contractor shall stamp a letter "W" on the face of curb directly above the water service.

27. Backfill & Compaction: Backfill material shall be hand placed and compacted up to at least 6" above the pipe. When using native soil as trench backfill, the minimum sand cover shall be 12".

28. Jetting and/or flooding of trench backfill material will be permitted only if approved by the Soils Engineer and City Engineer. (for public areas only)29. Any excess excavation material may be deposited onsite in areas and at depths designated by the Owner, and with approval of the City Engineer.

30. The minimum relative compaction for trench backfill, subgrade and base material shall be 95% throughout the project unless recommended otherwise in the Soils Report and approved by the City Engineer.

31. If trench backfill material is 100% sand, the City shall conduct compaction tests of the lifts specified. If the trench backfill material is native soil, contractor shall provide compaction test results of the lifts specified in the Soils Report to the City Engineer from a certified testing laboratory at contractor's expense.

32. Any aggregate base that becomes contaminated during construction shall be removed and replaced with uncontaminated base.

33. Erosion and Sediment Control: An erosion and sediment control plan shall be required prior to any physical development of a property. Erosion control shall be planned between September 1st and May 1st, and sediment control shall be planned year-round for the life of the project. Said plans shall meet the minimum standards and specifications of the California Stormwater Quality Association (CASQA) for Stormwater Best Management Practices (BMPs). Contractor shall be responsible for initiating the required control measures. CASQA BMP information can be viewed and downloaded at <https://www.casqa.org/resources/bmp-handbooks>.

34. Curb Inlet Stenciling or Medallion: Next to all curb inlets, shall have a Thermoplastic stenciling or Medallion "No Dumping, Drains to Creek".

35. Electroliers: All electroliers shall be installed by the Developer (at the locations shown on these plans). See Electrical Section of the Standard Details.

36. Monumentation: A.Developer/Contractor shall install all monuments, monument wells and corner pipes as noted on final or Parcel map.

B.Prior to occupancy of the final unit, developer/contractor shall obtain the services of the surveyor of record to verify that all monumentation is in place.

C.Existing or new monuments that are destroyed shall be reconstructed and set at developer/contractor's cost. Surveyor shall file necessary corner record with county and provide a copy of the filing at the Building and Engineering Division of Land development.

D.A letter of compliance of items A, B & C shall be provided to the Building and Engineering Division of Land Development prior to acceptance of the public improvements.

Legend

Proposed	Description	Existing
---	Project Property Boundary	---
---	Property Line	---
---	Centerline	---
---	Easement, as noted	---
---	Curb and Gutter	---
---	Driveway Approach	---
---	Approx.	---
---	ASBC	---
---	Asbestos Cement	---
---	Beginning of Curve	---
---	BFE	---
---	Base Flood Elevation	---
---	BM	---
---	Benchmark	---
---	BMP	---
---	Best Management Practice	---
---	BMW	---
---	Bottom of Wall	---
---	BSM	---
---	Biowaste Media	---
---	BVC	---
---	Beginning of Vertical Curve	---
---	BW	---
---	Back of Walk	---
---	CASQA	---
---	California Stormwater Quality Association	---
---	CBC	---
---	California Building Code	---
---	CCTV	---
---	Closed Circuit Televised Video	---
---	CI	---
---	Curb Inlet	---
---	CIP	---
---	Cast Iron Pipe	---
---	CIPP	---
---	Cured-In-Place Pipe	---
---	CL, C/L	---
---	Centerline	---
---	CL	---
---	Class	---
---	CLR	---
---	Clear	---
---	CMP	---
---	Corrugated Metal Pipe	---
---	CO, C/O	---
---	Clean Out	---
---	Conc.	---
---	Concrete	---
---	D/S	---
---	Downstream	---
---	DDCVA	---
---	Double Detector Check Valve Assembly	---
---	Det., DTL	---
---	Detail	---
---	DI	---
---	Drop Inlet	---
---	Dia.	---
---	Diameter	---
---	DIP	---
---	Ductile Iron Pipe	---
---	DWG	---
---	Drawing	---
---	DWY, D/W	---
---	Driveway	---
---	(e), ex., exst	---
---	Each	---
---	EA	---
---	End of Curve	---
---	EC	---
---	Existing Ground	---
---	Elect., E/ct.	---
---	Electrolier	---
---	EP	---
---	Edge of Pavement	---
---	EQ	---
---	Equivalent	---
---	ER	---
---	End of Return	---
---	EVC	---
---	End of Vertical Curve	---
---	FF	---
---	Finish Floor	---
---	FG	---
---	Finish Grade	---
---	FH	---
---	Fire Hydrant	---
---	FL	---
---	Flowline	---
---	FT	---
---	Foot	---
---	GB	---
---	Grade Break	---
---	GT	---
---	Grease Trap	---
---	HDPE	---
---	High Density Polyethylene	---
---	Hor., Horiz.	---
---	HP	---
---	High Point	---
---	ID	---
---	Inside Diameter	---
---	INV	---
---	Invert	---
---	JP	---
---	Joint Pole	---
---	JT	---
---	Joint Trench	---
---	LB	---
---	Pound	---
---	LF	---
---	Linear Feet	---
---	LP	---
---	Low Point	---
---	Max	---
---	Maximum	---
---	Min	---
---	Minimum	---
---	MOFG	---
---	Maximum Outside Finish Grade	---
---	(N)	---
---	New	---
---	NG	---
---	Natural Ground	---
---	#, No.	---
---	Number	---
---	NPDES	---
---	National Pollutant Discharge Elimination System	---
---	NTS	---
---	Not to Scale	---
---	OC	---
---	On Center	---
---	OD	---
---	Outer Diameter	---
---	PB	---
---	Pull Box	---
---	PCC	---
---	Portland Cement Concrete	---
---	PL, P/L	---
---	Property Line	---
---	PSDE	---
---	Private Storm Drain Easement	---
---	PSE	---
---	Public Service Easement	---
---	PUE	---
---	Public Utility Easement	---
---	PVC	---
---	Polyvinyl Chloride	---
---	PVI	---
---	Point of Vertical Intersection	---
---	(R), Rad.	---
---	Radial	---
---	RCP	---
---	Reinforced Concrete Pipe	---
---	RPP	---
---	Reinforced Plastic Pipe	---
---	RSC	---
---	Rapid Strength Concrete	---
---	R/W, R/W	---
---	Right-of-Way	---
---	S/L	---
---	Street Light	---
---	SCM	---
---	Source Control Measure	---
---	SD	---
---	Storm Drain	---
---	SDCO	---
---	Storm Drain Cleanout	---
---	SDMH	---
---	Storm Drain Manhole	---
---	SS	---
---	Sanitary Sewer	---
---	SSCO	---
---	Sanitary Sewer Cleanout	---
---	SSMH	---
---	Sanitary Sewer Manhole	---
---	STA	---
---	Station	---
---	Std.	---
---	Standard	---
---	SW	---
---	Sidewalk	---
---	SWCP	---
---	Stormwater Control Plan	---
---	TBM	---
---	Temporary Benchmark	---
---	TC	---
---	Top of Curb	---
---	TCP	---
---	Traffic Control Plan	---
---	ToB	---
---	Top of Bank	---
---	ToW	---
---	Top of Wall	---
---	Typ.	---
---	Typical	---
---	U/S	---
---	Upstream	---
---	VCP	---
---	Vitrified Clay Pipe	---
---	Vert.	---
---	Vertical	---
---	W	---
---	Water	---
---	W/	---
---	With	---
---	WDID	---
---	Waste Discharge Identification Number	---
---	WM, W/M	---
---	Water Meter	---
---	WV	---
---	Water Valve	---

** existing features are labeled in Italics and parenthesis, typical

Underground Service Alert Note

Observed surface evidence of utility lines including facilities, appurtenances, and markings were used in depicting the locations of the underground features shown on these plans. Underground features depicted are approximate and it is the responsibility of the contractor to determine the actual location and depth of underground utilities prior to starting excavation. Call USA North: 1.800.227.2600 OR 911



Note:

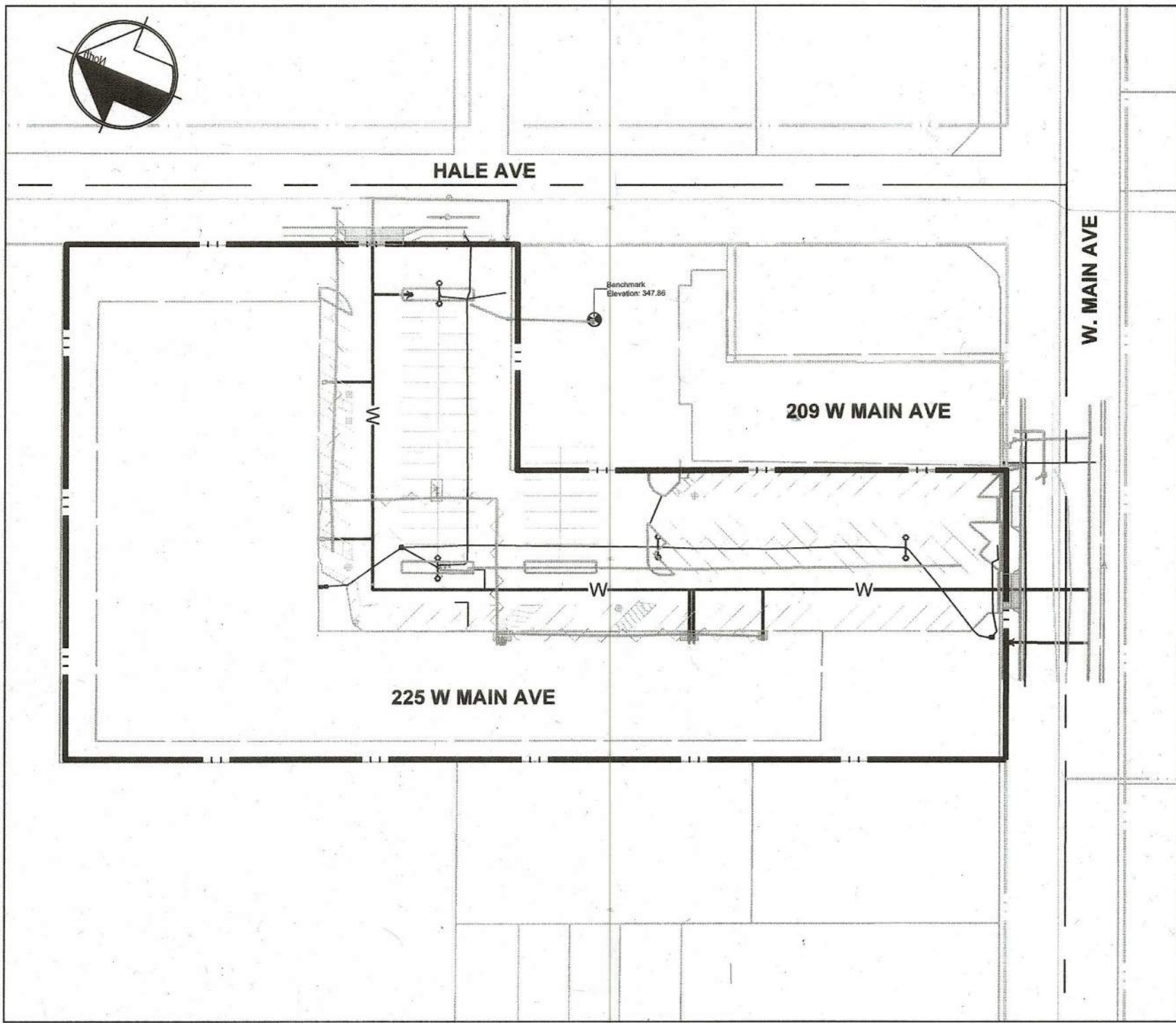
Contractor agrees that they shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working outs; and that the contractor 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 sole negligence of the City of Morgan Hill.

City of Morgan Hill

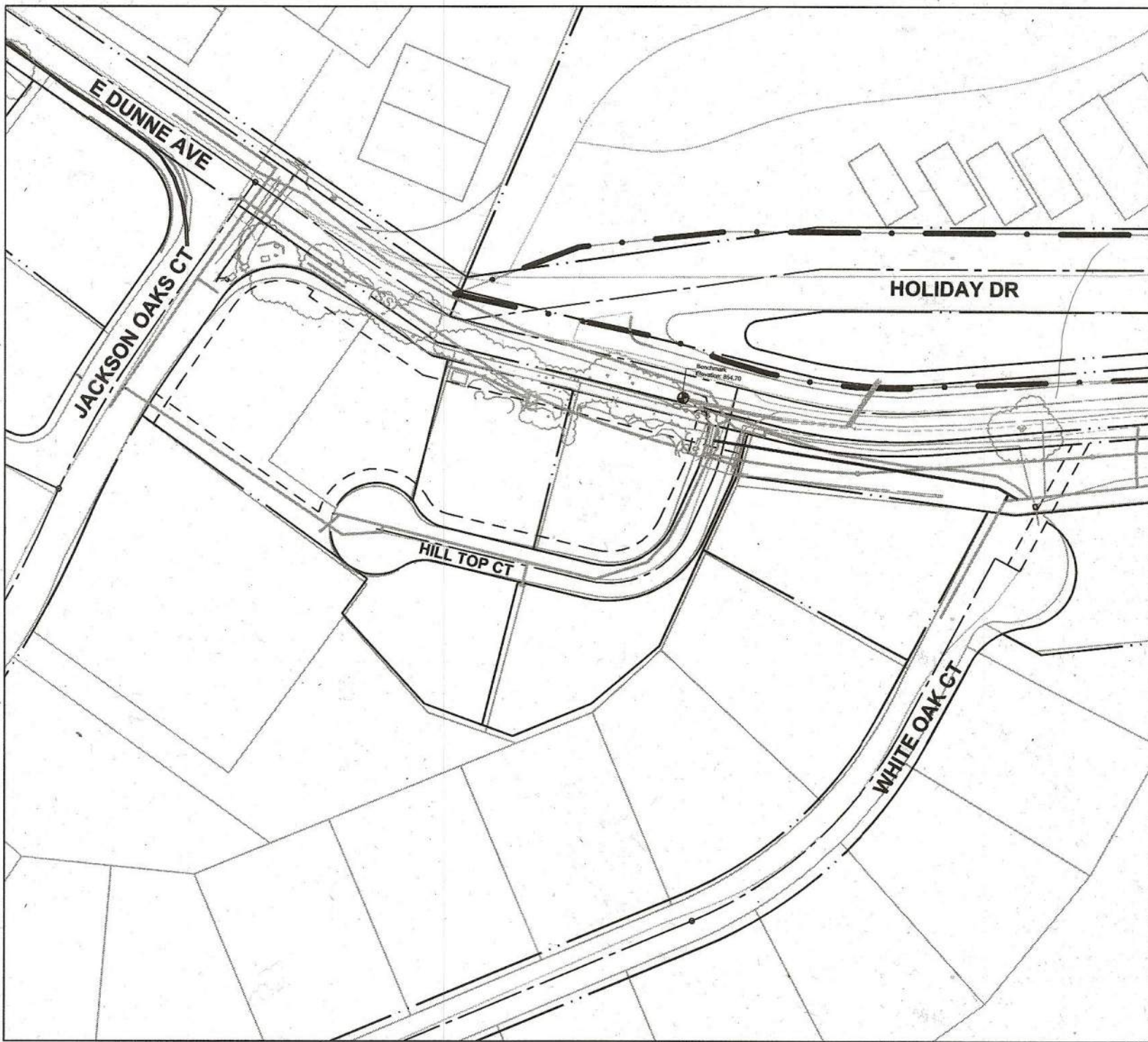
Improvement Plans for

2025 Morgan Hill Water Main Replacement Project

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,



PROJECT LOCATION #1
West Main Avenue



PROJECT LOCATION #2
Hill Top Court



Vicinity Map

Sheet List Table

Sheet Number	Sheet Title
1	Cover Sheet
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3	W Main Ave Existing Topography
4	W Main Ave Proposed Utility Plan
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6	Hill Top Proposed Utility Plan
7	City Standard Details
8	City Standard Details

Cover Sheet

2025 Morgan Hill Water Main Replacement Project

DESIGN	AEV	DATE	4/9/25
CHECKED	KW	DATE	4/9/25
APPROVED	KW	DATE	4/9/25
DATE	3/13/2025	JOB NUMBER	WA6005
DATE	3/13/2025	DATE	3/13/2025

City of Morgan Hill

Engineering & Utilities

17575 PEAK AVE. MORGAN HILL, CA 95037

(408) 776-6480 FAX (408) 779-7236



DESCRIPTION	DATE	BY
NO.		
REVISIONS		
CITY FILE NO.	WA6005	
PLAN SET	3/13/2025	
Sheet		
1 OF 8		

Standard General Notes:

- ### Construction Notes:

1. Paving

- | | | | | | |
|-----------|-------------|------|----|-----|----------------|
| | | | | | WORK ACCEPTED: |
| | | | | | |
| NO. | DESCRIPTION | DATE | BY | BY: | |
| REVISIONS | | | | | |

- ### 3. Materials

- #### 4. Potholing

- ### 5. Work Within Easements and Private Properties

- ### 6. Overhead Electric Utilities

- | | | | |
|--|-----------------------|---------------------|----------------|
| PECTOR: | DRAWN: AEV | DESIGN: KW | HOR. N/A |
| | CHECKED: KW | DATE: | VERT. N/A |
| TE: | APPROVED: <i>S.C.</i> | DATE: <i>4/9/25</i> | JOB NO. WA6005 |
| Scott C. Cree
P.E. CIVIL
CITY ENGINEER
EXP. DATE 10/26/2025 | | | |



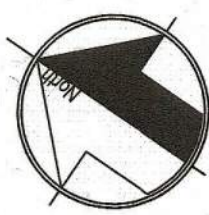
General Notes

Morgan Hill Water Main Replacement Project

MORGAN HILL

CALIFORNIA

FILE NO. WA6005
PLAN SET: 3/13/2025
DRAWING: 2 OF 8



SCALE: 1"=20'

Project Information:

APN: 764-17-003
Present Use: COMMERCIAL
Proposed Use: COMMERCIAL
Present Zoning: COMMERCIAL
Proposed Zoning: COMMERCIAL
Sanitary Sewer: CITY OF MORGAN HILL
Gas and Electric: PG&E
Water: CITY OF MORGAN HILL
Telephone: FRONTIER/VERIZON
Existing Improvements: As Shown
Area: 2.639 ACRES
Topo: Field Topo

Basis of Bearings: THE BEARINGS SHOWN UPON THIS MAP ARE BASED UPON THE CENTERLINE OF HALE AVENUE AS FOUND AND MONUMENTED AS NORTH 34° 52' WEST AS SHOWN ON THAT RECORD OF SURVEY RECORDED AT BOOK 113 OR MAPS AT PAGE 54, SANTA CLARA COUNTY RECORDS.

Benchmark: BENCHMARK IS LOCATED AT THE NORTH EAST CORNER OF DRAIN INLET, AS SHOWN ON THESE PLANS.
Elevation= 347.86

Flood Zone: THIS PROPERTY LIES PARTIALLY IN FLOOD ZONE AE, BASE FLOOR ELEVATIONS DETERMINED PER FEMA FIR, 06085C0443H, EFFECTIVE MAY 18, 2009.

Boundary Note: Property lines shown on this plan are based on record data and boundary monumentation measured to date per 113M54

221 W Main Ave
APN 764-17-003

207 W Main Ave
APN 764-17-002

W Main Ave

Hale Ave

(Basis of Bearings N34°52'00"W)

(S34°52'00"E)

(286.35)

33'

33'

(N55°00'00"E)

(N34°52'00"W)

(S55°00'00"W)

(520.25)

33'

33'

W Main Ave Existing Topography

2025 Morgan Hill Water Main Replacement Project

NO.	DESCRIPTION	DATE	BY	WORK ACCEPTED:		INSPECTOR:	DATE	DRAWN:	DESIGN:	HDL:	VERT.	JOB NO.	APPROVED:	DATE	EXP. DATE
				BY:	DATE:										
								AEV	KW	1" = 20'		WA6005		4/12/25	06-30-2025
								CHECKED:							
								APPROVED:							
								Scott C. Green							
								RCE 58879							



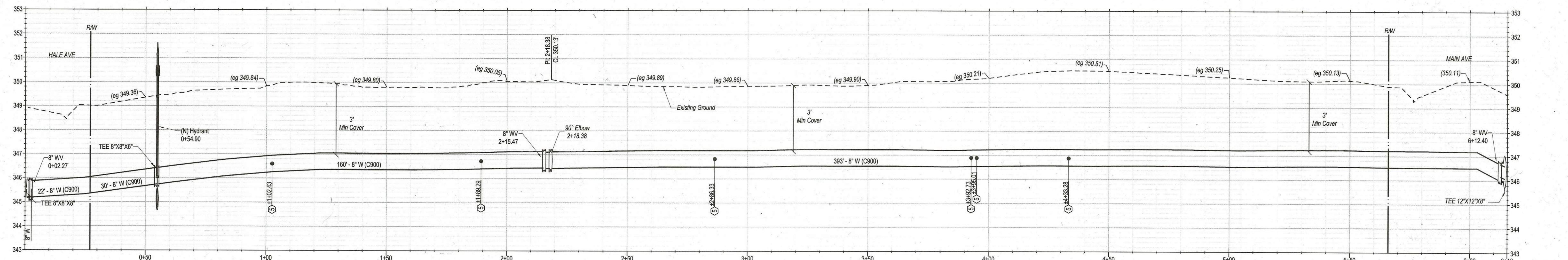
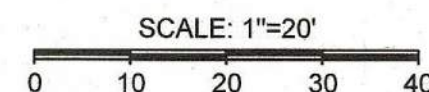
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W Main Ave Existing Conditions
2025 Morgan Hill Water Main Replacement Project


MORGAN HILL

CALIFORNIA

FILE NO. WA6005
PLAN SET 3/13/2025
DRAWING
3 of 8



PROFILE: Proposed Water Line.
SCALE H: 1"=20' SCALE V: 1"=2'

				WORK ACCEPTED:	INSPECTOR:	DRAWN: AEV	DESIGN: KW	HDR. 1" = 20'
						CHECKED: KW	DATE:	VERT. 1" = 2"
NO.	DESCRIPTION	DATE	BY	BY:	DATE:	APPROVED: 	DATE 4/9/20	JOB NO. WA6005
REVISIONS								



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Engineering & Utilities
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W Main Ave Plan Profile
2025 Morgan Hill Water Main Replacment Project

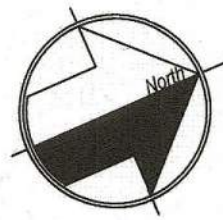
MORGAN HILL

CALIFORNIA

FILE NO.	WA6005
PLAN SET:	3/13/2025
DRAWING:	4 OF 8

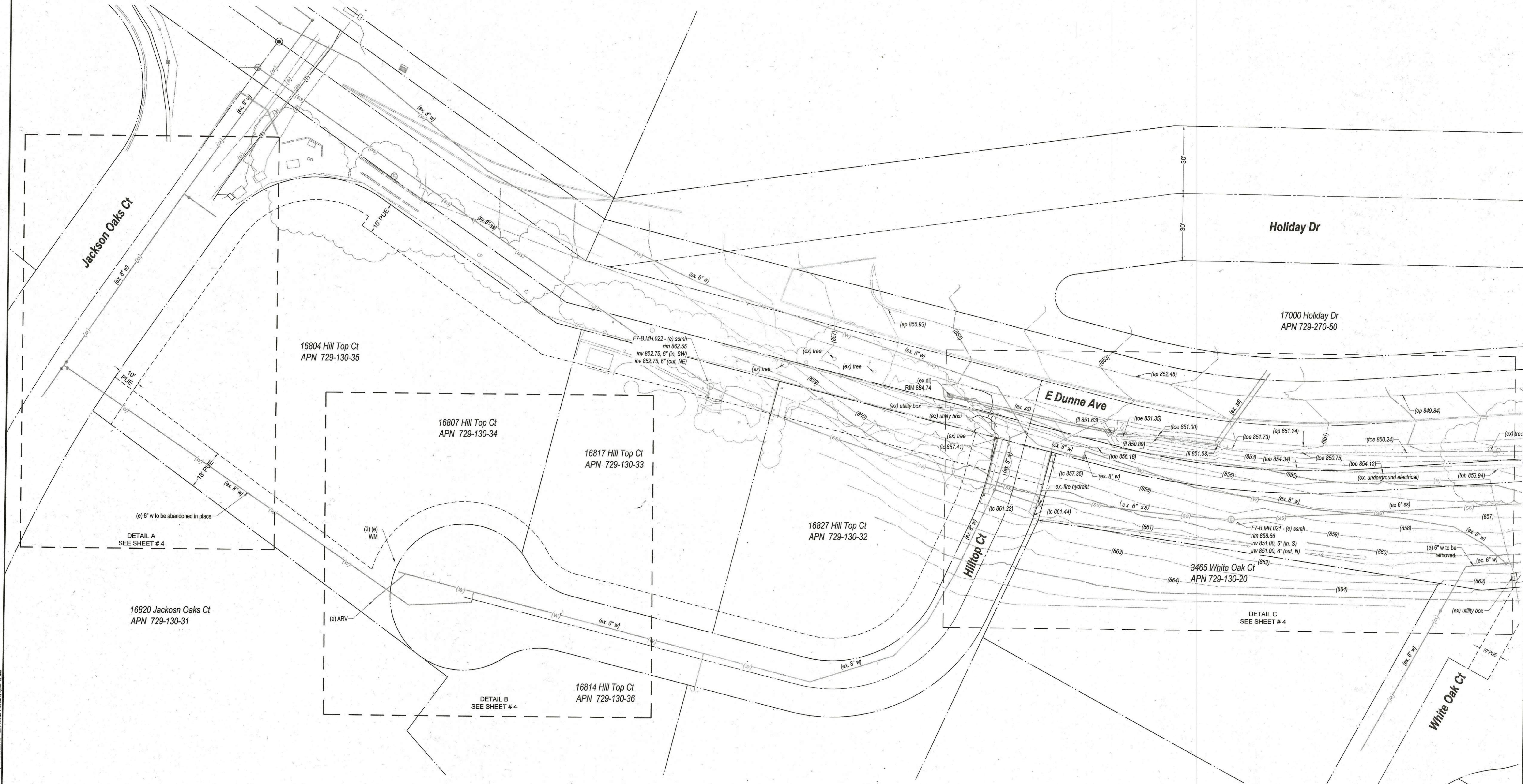
Construction Notes

5 Reconnect existing water service laterals.



SCALE: 1"=20'

0 10 20 30 40



REVISIONS			
NO.	DESCRIPTION	DATE	BY

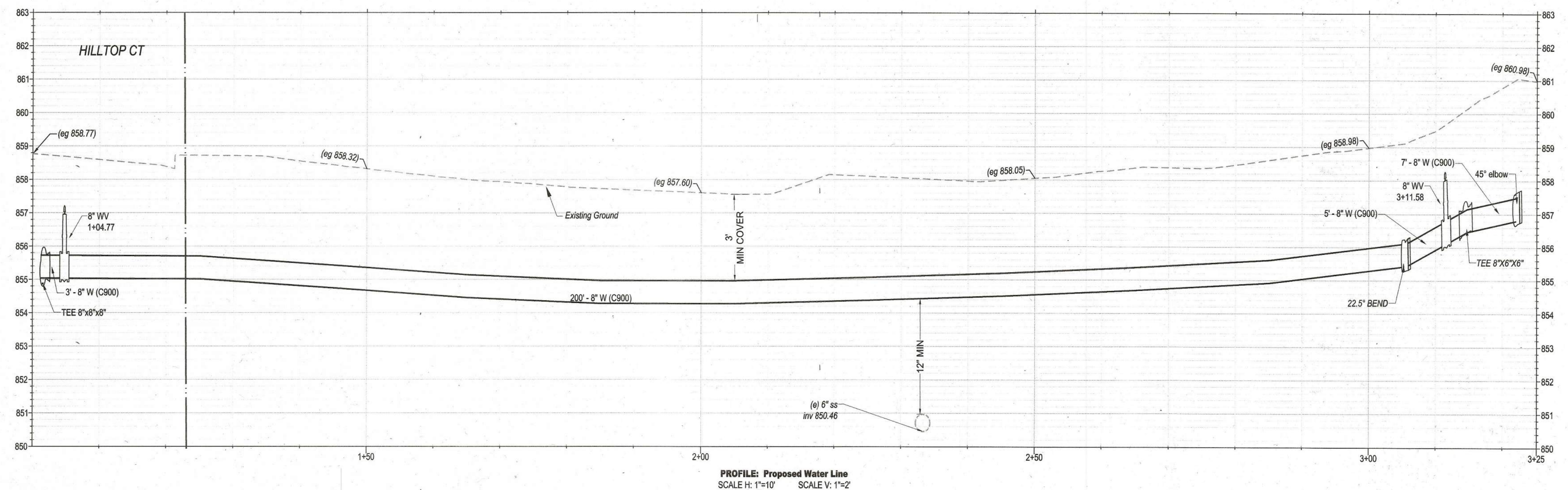
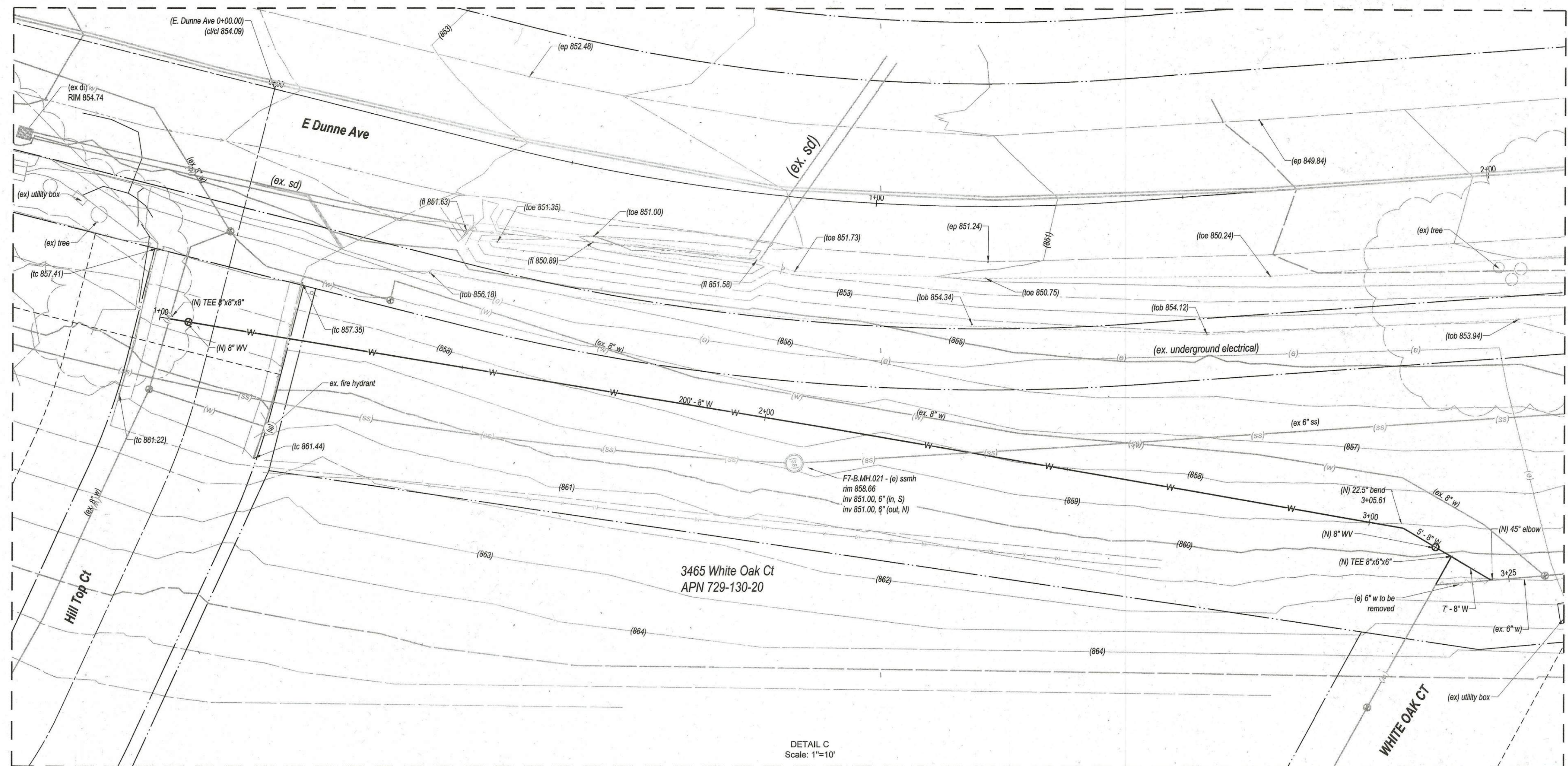
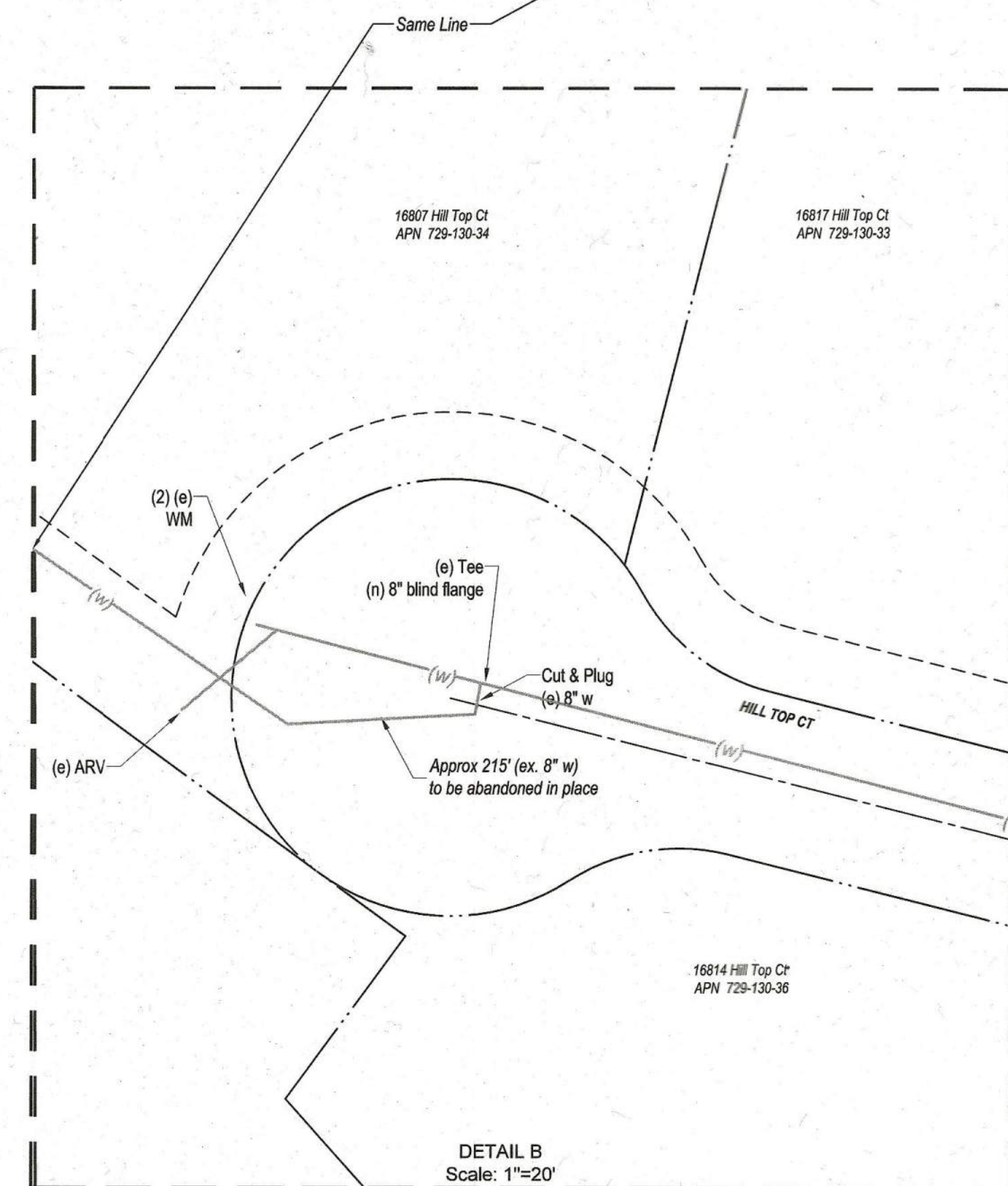
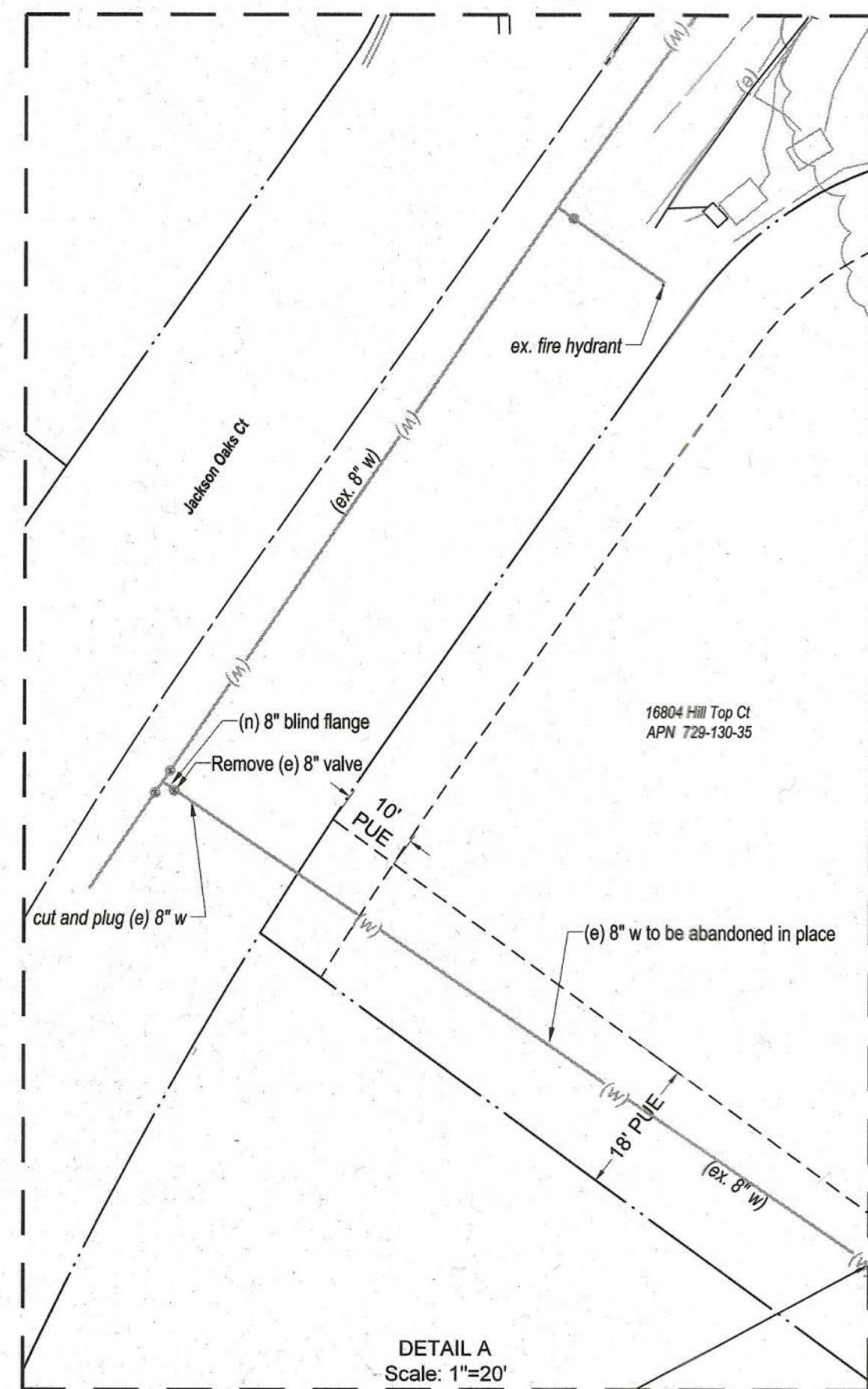
WORK ACCEPTED:	INSPECTOR:

DRAWN:	AEV	DESIGN:	KW	HOR:	1" = 20'
CHECKED:	KW	DATE:		VERT:	
APPROVED:		DATE:	1/2/25	JOB NO.	WA6005




City of Morgan Hill
Engineering & Utilities
17575 PEAK AVE. MORGAN HILL, CA 95037
(408) 776-6480 FAX (408) 779-7236

Hill Top Existing Conditions		FILE NO.	WA6005
2025 Morgan Hill Water Main Replacment Project		PLAN SET	3/13/2025
MORGAN HILL		DRAWING	5 OF 8
CALIFORNIA			



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

DRAWN:	AEV	DESIGN:	KW	HOR.
CHECKED:	KW	DATE:		VERT.
APPROVED:		DATE:	4/9/25	JOB NO.
Scott C. Crier VICE PRES.		CITY ENGINEER EXPI. DATE 06-30-2026		WA6005



City of Morgan Hill
Engineering & Utilities
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Hill Top Plan Profile

2025 Morgan Hill Water Main Replacment Project

MORGAN HILL

CALIFORNIA

FILE NO. **WA6005**

PLAN SET: **3/13/2025**

DRAWING: **6 OF 8**

