

Project Notes:

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 the 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 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 liability arising from the sole negligence of the City of Morgan Hill.
- The Contractor shall maintain a copy of the project plans on the jobsite at all times.
- All work shall conform to the Project Plans and the City of Morgan Hill Design and Construction Standards and other specifications referenced therein.
- Contractor shall conduct work in accordance with CalTrans Standard Specifications and City Specifications.
- No change to the project Improvement plans shall be permitted without prior approval by the City and Design Engineer.
- The Contractor shall visit site(s) prior to submitting bid(s).
- The Contractor shall provide residents and businesses of any utility shut downs in accordance with specifications.
- The Contractor shall notify the City of Morgan Hill at least 48 hours in advance of the start of construction activity. All utility shut downs 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.
- The Contractor shall exercise due care and concern to avoid injury to existing facilities, utilities, and property. Contractor to replace or restore to initial conditions any facilities, improvements, utilities, or other property damage or disturbed area as a result of construction.
- The Contractor shall replace, at their 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 by the City; nor private property without written permission by the property owner.
- The Contractor shall secure a no-fee encroachment permit from the City of Morgan Hill, Engineering and Utilities Department prior to commencement of work.
- 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 lack of adequate shoring, bracing, and sheeting, shall be the responsibility of the Contractor, and they shall effect necessary repairs or reconstruction at their 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.
- The Contractor shall bear sole responsibility for the design and implementation of shoring.
- The Contractor shall take effective action to prevent the formation of any airborne dust nuisance and shall be responsible for any damage resulting from their failure to do so.
- The Contractor shall provide for ingress and egress for private property adjacent to the work throughout the period of construction.
- Overnight parking of construction equipment in the public right-of-way shall not be permitted, except in location(s) approved by the City.
- Contractor is responsible for site safety. All excavations shall be plated with non-skid plates when inactive. Barricades with lights shall be installed delineate construction zone.
- 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 maintenance of utilities in the vicinity of the job site.
- Any extra construction staking necessitated solely by the Contractor's negligence will be charged to the Contractor on a time and material basis.
- Station numbers are along the street centerline unless otherwise shown or indicated.
- All return radii and curb radii are measured to the face of curb.
- All quantities and pay items are and will be based on horizontal measurements.
- All surplus and unsuitable material shall be removed from the public right-of-way.
- Lengths of utility piping are horizontal distances from center to center of structures, rounded off to the nearest foot.
- Prior to obtaining water from hydrants for construction purposes, Contractor must apply for and obtain a temporary hydrant meter from the City of Morgan Hill Utility Billing Division and comply with the requirements.
- Existing underground utilities and improvements are shown in their approximate location based upon record information available at the time of the preparation of these plans. Locations may note have been verified in the field and no guarantee is made as to the accuracy or completeness of the information shown. Call Underground Service Alert (USA) at 1-800-842-2444.
- 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 locating services, or evidenced by facilities 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.
- It shall be the responsibility of the Contractor to notify all public and private utility owners 48 hours prior to commencement of work adjacent to the utility. Contact Underground Service Alert (USA) at 1-800-842-2444.
- Contractor shall notify, by circular, all business establishments and residences located in the area affected by the work one week prior to the start of construction. At a minimum, all residents and business establishments within 100 feet of the work area shall be notified. A draft of the circular shall be submitted to the City for review and approval.
- 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, working conditions, etc. This work shall be done at no expense to the utility company.
- If archaeological resources are discovered during construction, work shall be halted within 50 meters (165 feet) of the find until a qualified professional archaeologist can evaluate it. If the find is determined to be significant, appropriate mitigation measures shall be formulated and implemented. If any human remains are found during the construction, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the coroner of Santa Clara County is contacted to determine that no investigation of the cause of death is required. If the coroner determines the remains to be Native American, the coroner shall contact the Native American Heritage Commission within 24 hours. The Native American Heritage Commission shall identify the person or persons it believes to be the most likely descendants (MLD) from the deceased Native American. The MLD may then make recommendations to the landowner, or the person responsible for excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and associated grave goods as provided in Public Resources Code Section 5097.98. The landowner, or their authorized representative, shall bury the Native American remains and associated grave goods with appropriate dignity on the property in a location not subject to further disturbance if: a) the Native American Heritage Commission is unable to identify a MLD or the MLD failed to make a recommendation within 24 hours after being notified by the commission; b) the descendant identified fails to make a recommendation; c) the landowner, or their authorized representative, rejects the recommendation of the descendant, and the mediation by the Native American Heritage Commission fails to provide measure acceptable to the landowner.
- The City of Morgan Hill does not specify or recommend the use or installation of any material or equipment which is made from, or which contains, asbestos or lead 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 equipment. The provisions of this note shall not apply unless they are expressly waived in writing by the City of Morgan Hill.
- The Contractor shall meet and follow all NPDES requirements in effect at the time of construction.
- The Contractor shall be responsible for protect all street monuments, lot corner pipes, and grade stakes. Should any be disturbed during the process of construction, it shall be the Contractor's responsibility to replace all disturbed street monuments, lot corner pipes, or grade stakes disturbed at the direction of the City.
- 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 fuel, 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 their subcontractor.
- The Contractor shall install a concrete saddle in locations which the vertical separation between the sanitary sewer and any other utility is less than 12 inches. Concrete saddle shall be installed per detail 1 on sheet 7.
- 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 of Morgan Hill at (408) 776-7337 for such further explanations as may be necessary.

Construction Notes:

1. Paving

- Paving shall conform to the specifications of the City of Morgan Hill. "Standard Specification" refers to the State of California Department of Transportation (CalTrans) Standard Specifications, most recent edition, as referenced below.
- 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 PG 64-10. Asphalt concrete shall be a minimum of 4" in thickness and placed in lifts 2" in maximum thickness.
- 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 equal amounts of water and applied at a 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, "Portland

- Cement Concrete", of the Standard Specifications and City Standard Details.
- All valve boxes and manholes to be set flush with finish grade unless otherwise noted.
- Aggregate base shall be Class 2 and shall be spread and compacted to conform with Section 26 of the Standard Specifications.
- The use of Recycled Asphalt Product (RAP) shall be permitted in the final lift of asphalt concrete pavement.

2. Sanitary Sewer

- Pipe shall be installed in compliance with manufacturer's recommended practice.
- Sanitary sewer lines shall be constructed with a laser guided device to the alignment and elevation shown on the plans.
- All underground work within the intersection of E. Dunne Ave. and Condit Rd. shall be completed within 70 days of the receipt of the Notice to Proceed.
- Sanitary sewer manholes shall be constructed to the Standard Specifications and the Details of the City of Morgan Hill, Standard Details S4-S, and S-6.
- Trenches 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 shall not be used to compact backfill immediately above the pipe.
- Prior to paving, a television inspection shall be performed of newly installed sanitary sewer mains at the contractor's expense.
- Individual Sanitary Sewer Laterals are shown to the extent observed in CCTV inspection. Stationing is based upon video log distance and project control line. Additional laterals may exist, but were not observed during the video inspection due to 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.
- Contractor shall maintain sewer flow at all times during construction. See Specifications Section 01531.
- Contractor to verify capped laterals are inactive with CCTV inspection where applicable.
- 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. The Contractor shall review site specific information in Appendix A for additional information about debris within sewer segments.
- Elevations shown are approximate based upon 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. The Contractor is responsible for establishing slope and grade during construction.
- Pipe bedding and backfill for the new sanitary sewer shall be in accordance with City Standard Details.

3. Materials

- The Contractor shall submit a Traffic Control Plan (TCP) to the Engineering & Utilities Department for approval a minimum of five (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 (CAMUTCD) while working within the public right-of-way. One traffic lane (10 feet minimum) 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.
- All traffic control devices shall be fabricated and installed in accordance with Part 6 and Part 9 of the CAMUTCD.
- 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 closure and flashing beacons shall be used during nighttime closure.
- Any permanent sign or existing pavement markings that conflict with the TCP shall be covered, obliterated, or removed as directed by the Engineer.
- During all construction periods, the Contractor shall have at the jobsite all necessary traffic control devices (appropriate sign, lighted arrow display, channelizing devices, etc.).
- Construction shall be sequenced to provide the least possible adverse affect to residences.
- Construction materials shall be kept off driveways or private property and consolidated in areas within the City right-of-way and easements during working hours unless otherwise approved by the Engineer.
- All construction signs shown on the TCP shall be black on orange.
- 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.
- All disturbed pavement 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 CalTrans Standard Specifications Sections 84 and 85. Separate markings will be made for this work. Include cost of replacing pavement striping, marking, and stencils in facilities requiring this work.

4. Potholing

- The Contractor shall pothole all utilities that may conflict with the proposed improvements 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 start of the scheduled excavation at each location.
 - Open trench excavations:
 - Open trench excavations:
 - The Contractor shall pothole all utilities that may conflict with the proposed work prior to excavating. At a minimum, this includes an underground gas, water, electrical, and fiber optic cable crossings.
 - Pipe Lining Locations:
 - The contractor shall locate all utility crossings in location where excavations are required prior to lining the pipe.
 - Pipe Bursting Locations:
 - The Contractor shall pothole all utilities that may conflict with the pipe bursting work prior to excavating. All utilities within three (3) feet of the work shall be potholed and exposed during bursting operations. At a minimum, this includes any underground gas, electrical, and fiber optic cable.
 - The Contractor shall pothole and expose the water main where it is within five (5) feet of the sewer main. Refer to water separation notes for additional information.

5. Limited Site Access

- Site Access is extremely limited in locations where work is occurring in side yards, backyards, and outside 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.

6. Overhead Electric Utilities

- Low-hanging high-voltage power transmission utilities are present at the project location.
- 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.).
- The Contractor shall insure a minimum clearance between the power lines and the work at all times as dictated by OSHA and PG&E regulations.

7. Arborist Notes and Tree Preservation

- 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.
- The Contractor shall notify City Arborist 72 hours in advance of any work requiring digging around, or within, the drip line of existing trees.
- 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 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.
- 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.
- No materials, equipment, fuel, paint, spoil, waste, or wash-out water may be deposited, stored, or parked within the drip line of a tree. It is the Contractor's responsibility to clear vegetation as required for access to the site(s). No additional compensation shall be paid by the City for this work.

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WORK ACCEPTED: _____ INSPECTOR: _____

DRAWN: AEV DESIGN: KW HOR: N/A
CHECKED: KW DATE: 3/5/25 VERT: N/A
APPROVED: DATE: 3/12/25 JOB NO: WW3009

NO. DESCRIPTION DATE BY: DATE:

REVISIONS

Scott C. Greer CITY ENGINEER EXP. DATE 03-30-2025

RCE 58879

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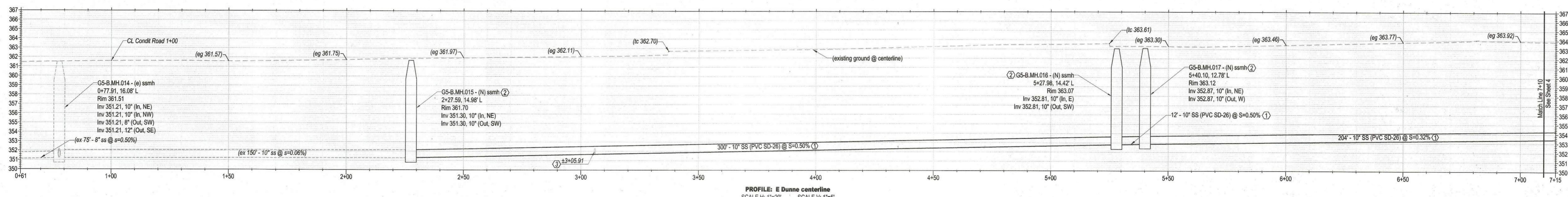
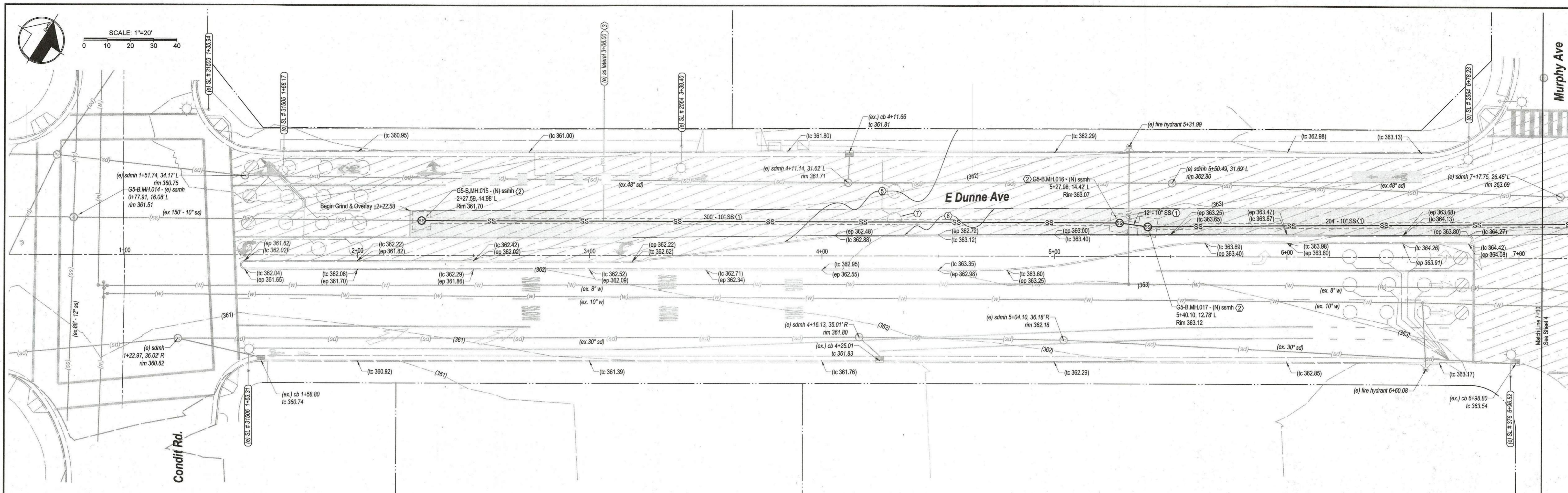
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Construction Notes

① Remove existing sanitary sewer main and replace with proposed 10' PVC SDR-26 sanitary sewer main. Trench restoration shall be per Trench Restoration Detail on Sheet #.

② Existing sanitary sewer manhole to be removed and replaced.

③ Existing sanitary sewer lateral to be reconnected to proposed sanitary sewer line per City Standard Details S-2 and S-3 on Sheet #. Sanitary sewer lateral to be extended/shortened as necessary.

④ Install new 10' PVC (SDR-26) sanitary sewer main with trench restoration per Trench Restoration Detail on Sheet #.

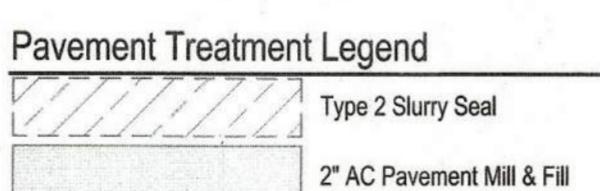
⑤ Slurry seal existing roadway surface using Type 2 slurry seal.

⑥ 2" Asphalt Pavement Grind & 2" Fill

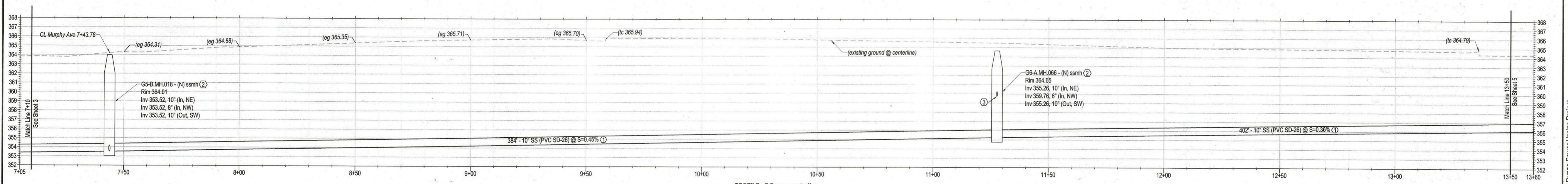
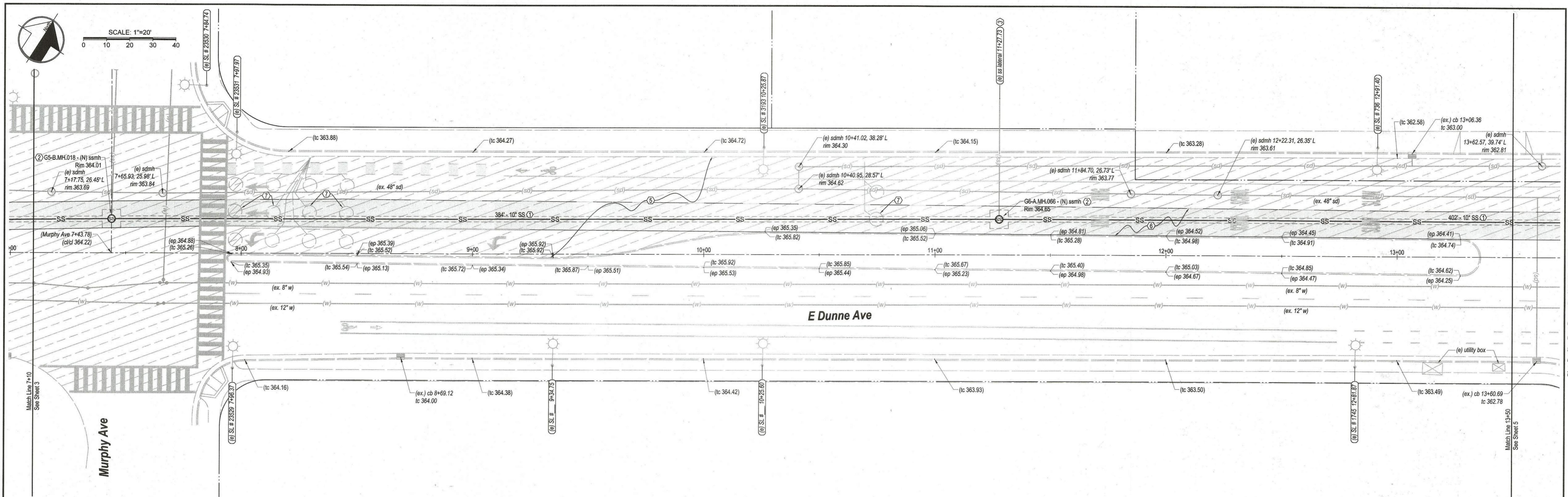
⑦ Replace (e) traffic detection loop

General Notes:

1. Existing utility information shown on the plans is approximate. It shall be the Contractor's responsibility to contact Underground Service Alert (USA) 48-hours prior to any excavation to locate all underground utilities and obtain a dig alert identification number prior to the commencement of work.
2. Contractor to verify utility location and depth prior to commencement of work.
3. A concrete saddle is to be installed if less than 12" of clearance exists between the existing utility and the proposed sanitary sewer to be installed. See Detail 1 on Sheet #.
4. It shall be the Contractor's responsibility to remove and dispose of the existing materials, including, but not limited to, sewer pipe and sewer manholes from the site per the plans and specifications.



PROFILE: E Dunne centerline
SCALE H: 1"=20' SCALE V: 1"=5'



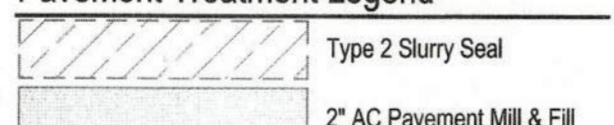
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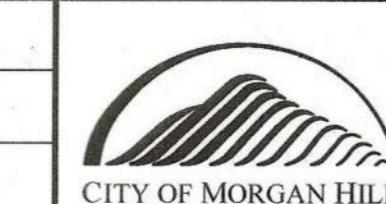
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Pavement Treatment Legend



NO.	DESCRIPTION	DATE	BY	WORK ACCEPTED:	INSPECTOR:	DRAWN:	DESIGN:	HOR:
						AEV	KW	1" = 20'
						CHECKED: KW	DATE: 3/5/25	VERT: 1" = 5"
						APPROVED: <i>Scott C. Crier</i>	DATE: 3/12/25	JOB NO: WW3009

REVISIONS



City of Morgan Hill
Engineering & Utilities
17575 PEAK AVE., MORGAN HILL, CA 95037
(408) 776-6480 FAX (408) 779-7236
CITY ENGINEER EXP. DATE 06-30-2025
Scott C. Crier RCE #9979

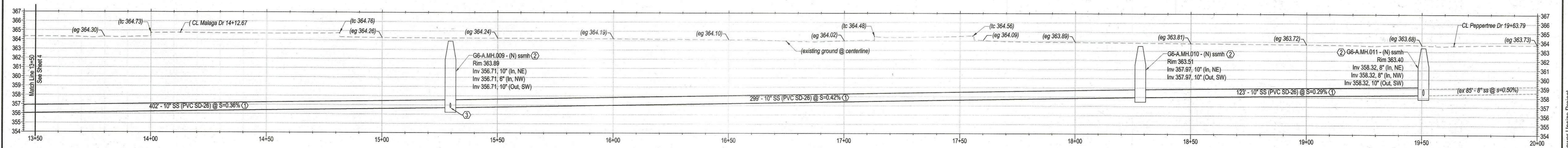
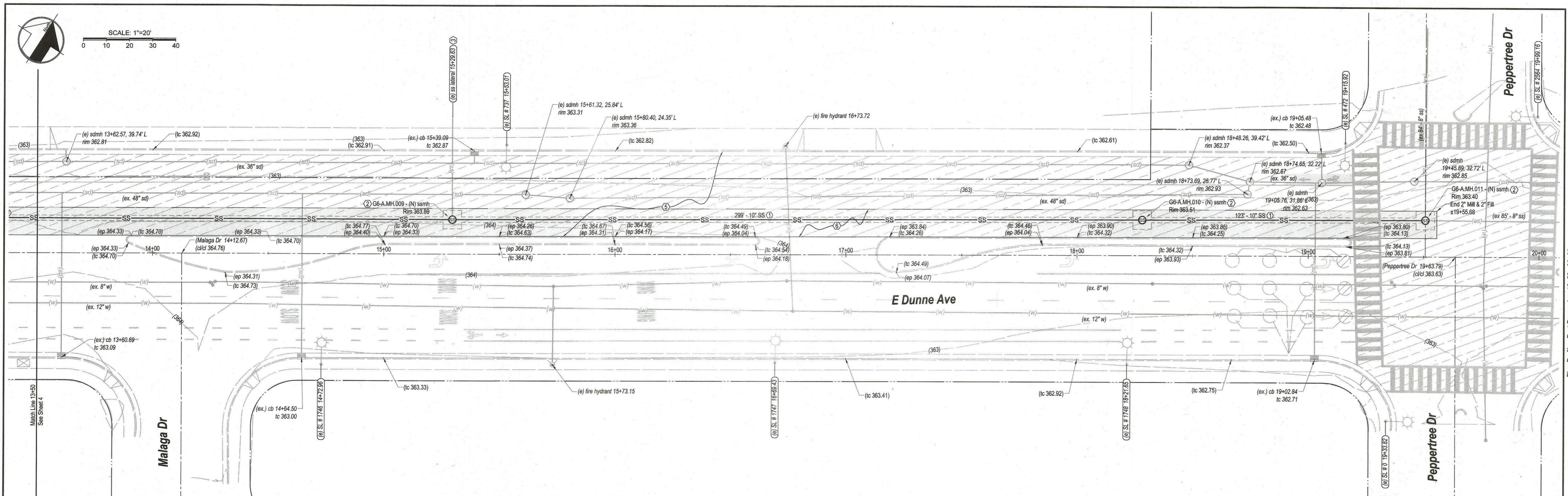
Plan Profile- East Dunne Road 7+00 - 13+50
East Dunne Sewer Upsize Project

MORGAN HILL

FILE NO: WW3009
PLAN SET: 3/12/25
DRAWING:

CALIFORNIA

4 OF 10



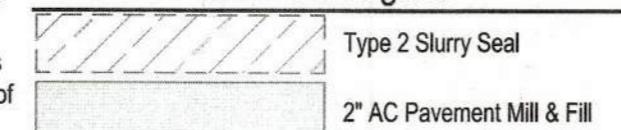
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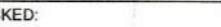
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4. It shall be the Contractor's responsibility to remove and dispose of the existing materials, including, but not limited to, sewer pipe and sewer

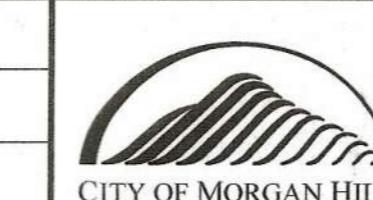
– Pavement Treatment Legend



PROFILE: E Dunne centerline

SCALE H: 1"=20' SCALE V: 1"=5'

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						AEV	KW
						CHECKED:	DATE:
						KW	3/12/25
NO.	DESCRIPTION	DATE	BY	BY:	DATE:	APPROVED:	DATE:
							3/12/25
	REVISIONS					Scott C. Gross	CITY ENGINEER



City of Morgan Hill

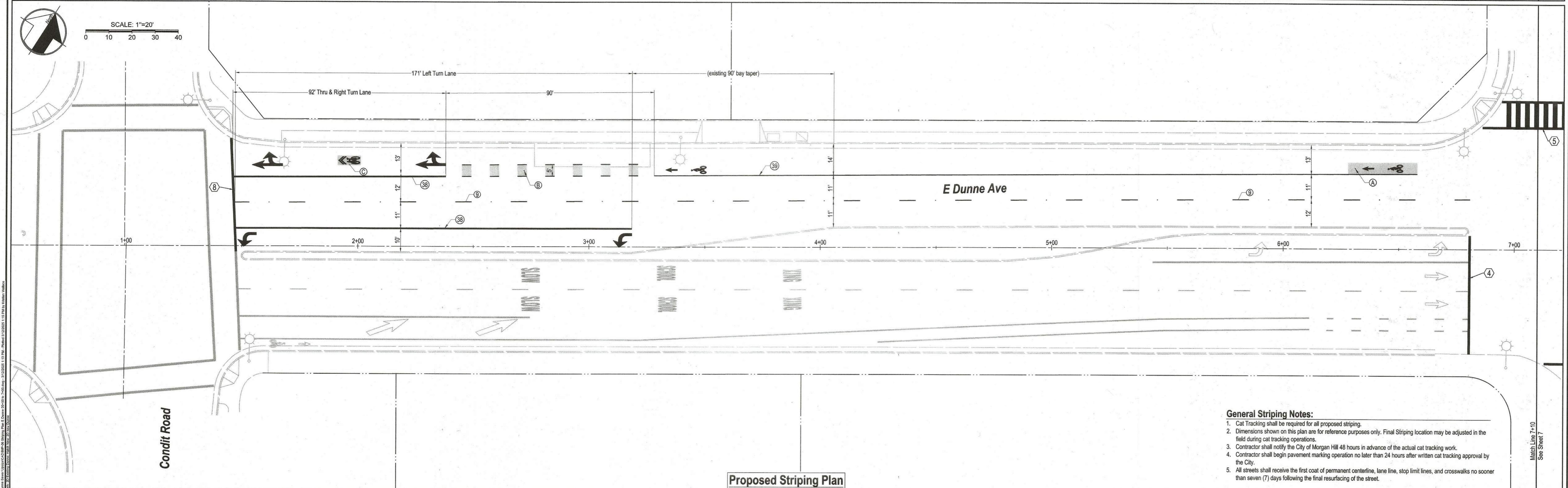
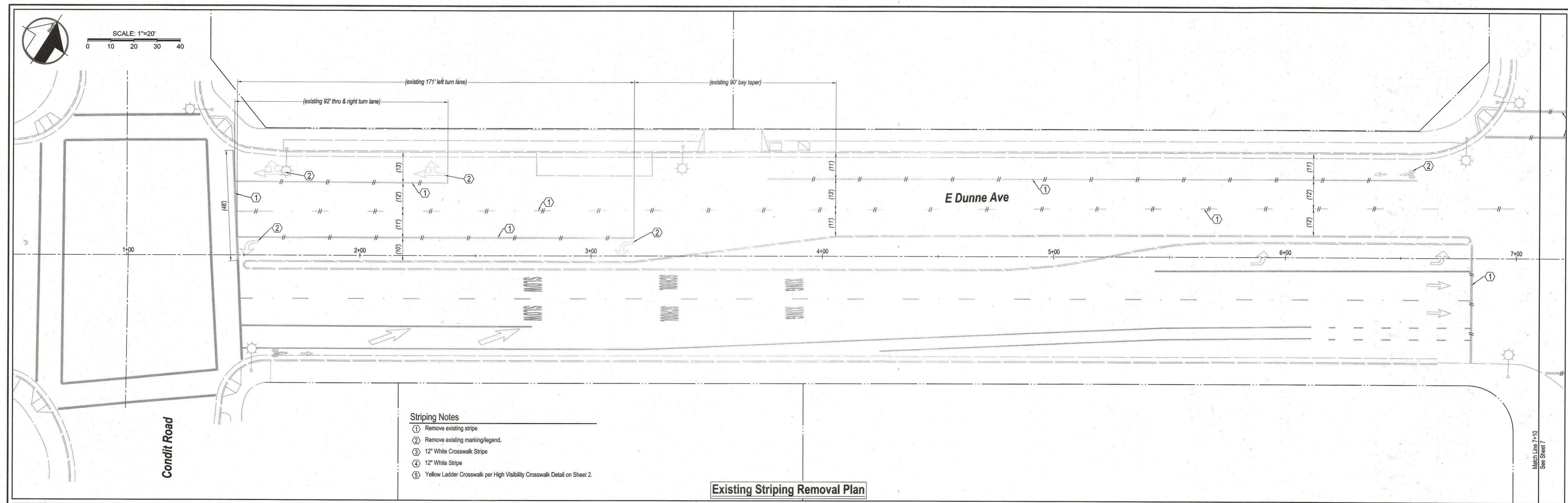
Engineering & Utilities

San Profile - East Dunne Ave 13+50 - 20+00

East Dunne Sewer Upsize Project

MORGAN HILL

FILE NO.
WW3009
PLAN SET:
3/12/25
DRAWING:
5 OF 10



				WORK ACCEPTED:	INSPECTOR:	DRAWN:	DESIGN:	HOR.	
						AEV	KW	1" = 20'	
						CHECKED:	DATE:	VERT.	
						KW	3/5/25	N/A	
NO.	DESCRIPTION	DATE	BY	BY:	DATE:	APPROVED:	DATE:	JOB NO.	
REVISIONS   Scott C. Creer RCE 58920 CITY ENGINEER EXPIRED DATE 06-26-2025									



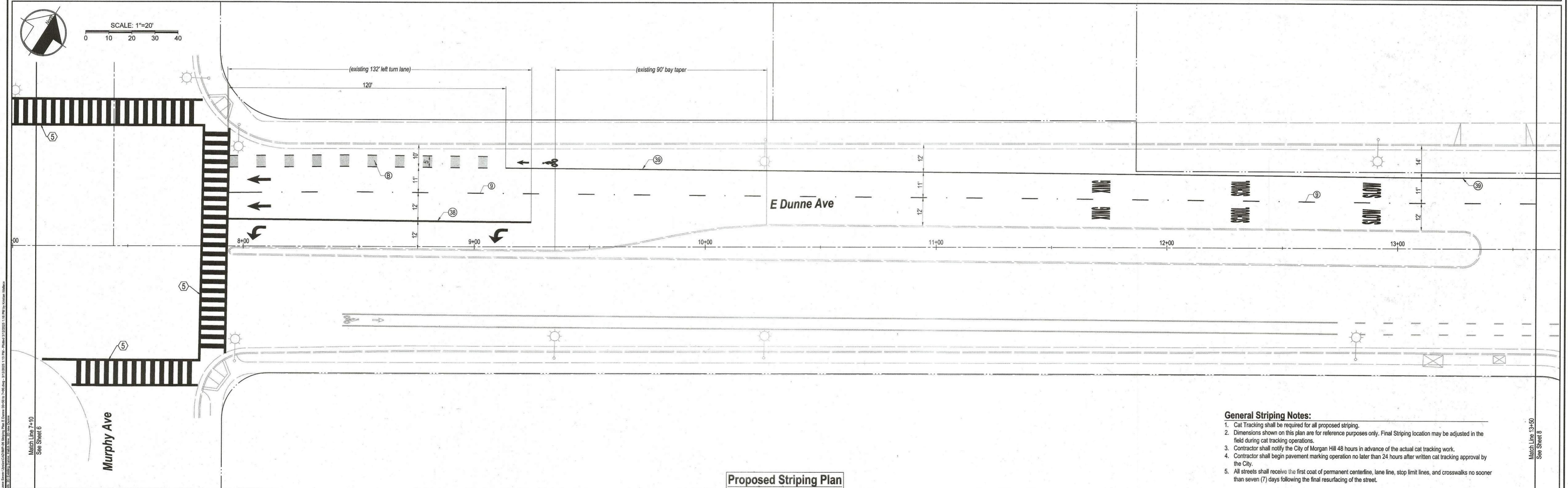
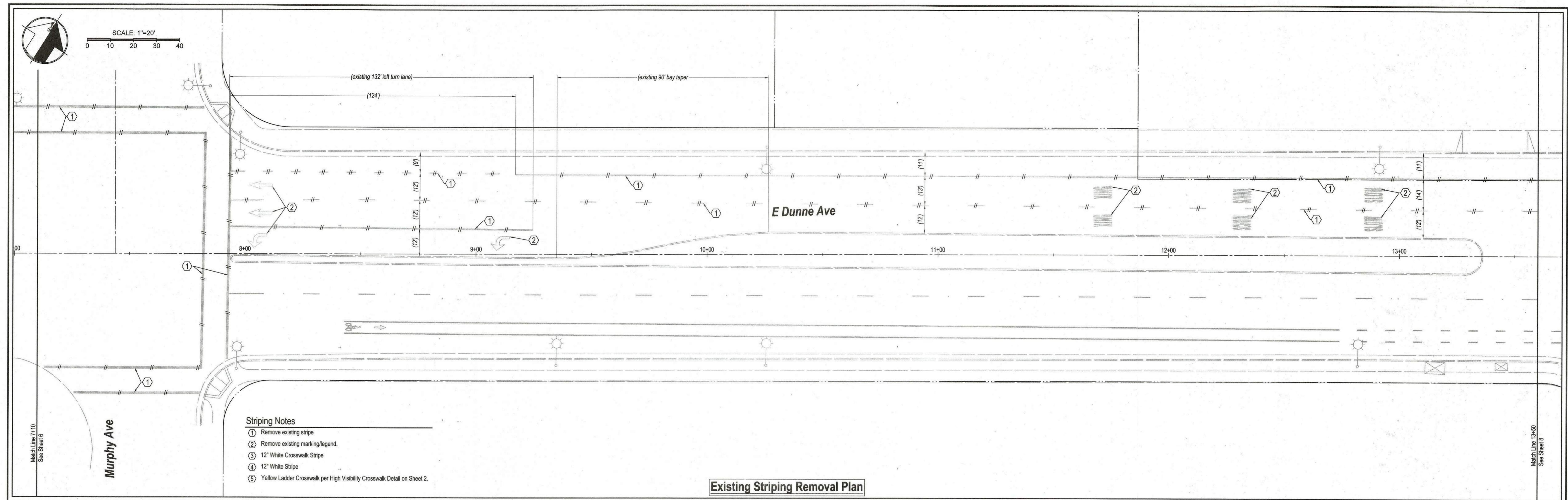
City of Morgan Hill

Engineering & Utilities

Striping Plan 0+50 - 7+00

East Dunne Sewer Upsize Project

FILE NO.	WW3009
PLAN SET:	3/12/25
DRAWING:	6 OF 10



					WORK ACCEPTED:	INSPECTOR:	DRAWN:	DESIGN:	HOR.
NO.	DESCRIPTION	DATE	BY	BY: DATE:			AEV	KW	1" = 20'
							CHECKED:	DATE:	VERT.
							KW	3/5/25	N/A
					APPROVED:	DATE:	JOB NO.		
					<i>S. C.</i>	3/12/25	WW3009		
					Scott C. Creer PCE 58870	CITY ENGINEER EXPI. DATE 06-26-2025			
REVISIONS									



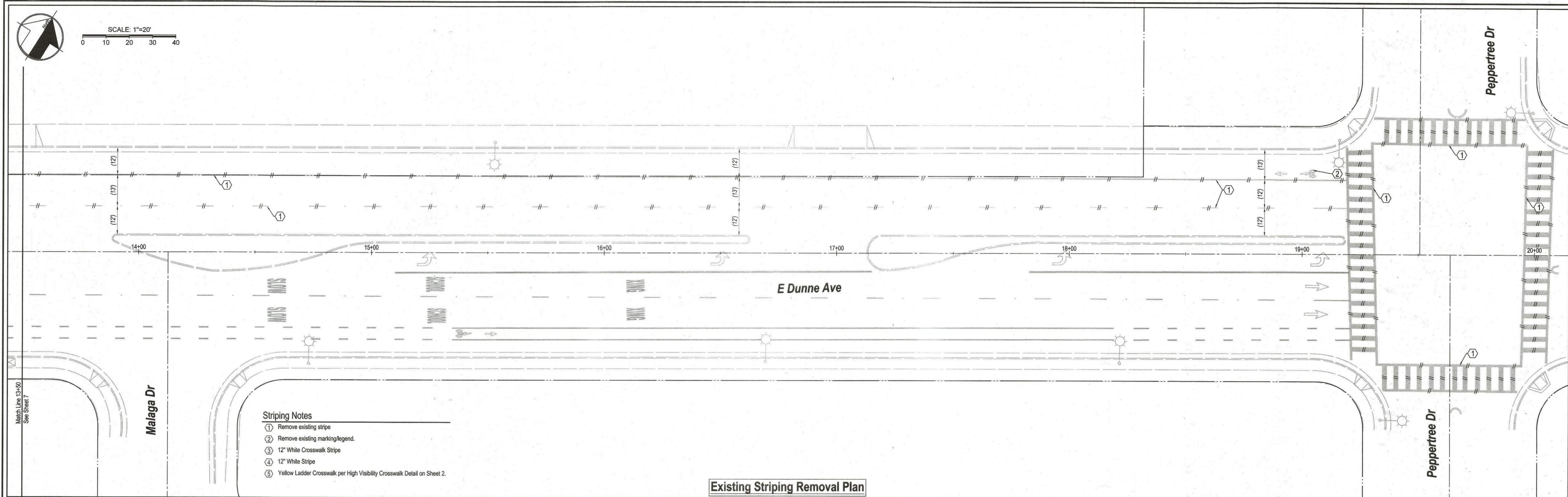
City of Morgan Hill

Engineering & Utilities

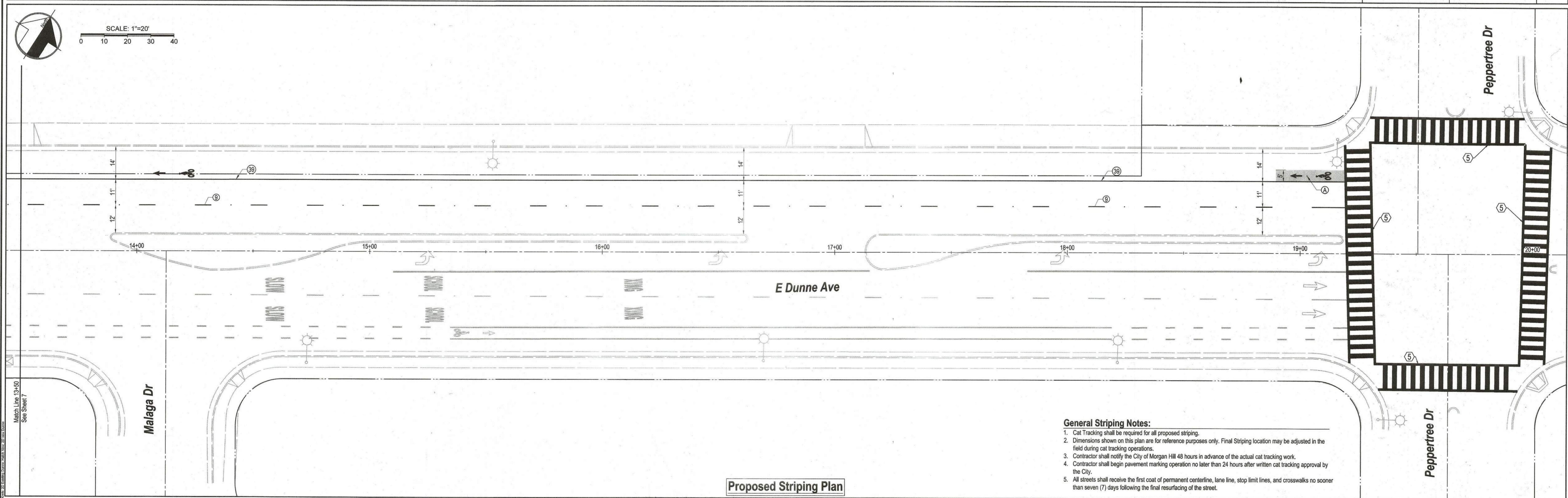
Striping Plan 7+00 - 13+50

East Dunne Sewer Upsize Project

FILE NO. **WW3009**
PLAN SET: **3/12/25**
DRAWING: **7 OF 10**



Existing Striping Removal Plan

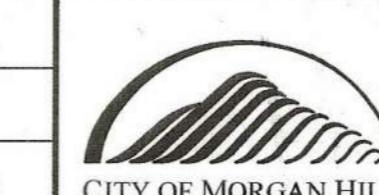


Proposed Striping Plan

General Striping Notes:

1. Cat Tracking shall be required for all proposed striping.
2. Dimensions shown on this plan are for reference purposes only. Final Striping location may be adjusted in the field during cat tracking operations.
3. Contractor shall notify the City of Morgan Hill 48 hours in advance of the actual cat tracking work.
4. Contractor shall begin pavement marking operation no later than 24 hours after written cat tracking approval by the City.
5. All streets shall receive the first coat of permanent centerline, lane line, stop limit lines, and crosswalks no sooner than seven (7) days following the final resurfacing of the street.

NO.	DESCRIPTION	DATE	BY	WORK ACCEPTED:	INSPECTOR:	DRAWN:
				BY: _____ DATE: _____		
				CHECKED:		
				KW		
REVISIONS				BY: _____ DATE: _____		APPROVED: _____
						Scott C. Creer RCE 58879



City of Morgan Hill

Engineering & Utilities

Striping Plan 13+50 - 20+00

East Dunne Sewer Upsize Project

FILE NO.
WW3009
PLAN SET:
3/12/25
DRAWING:
8 OF 10

<p>GENERAL SECTION</p> <p>CONSTRUCTION WITHIN CITY RIGHT-OF-WAY</p> <p>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 obtaining a written encroachment permit from the Public Works Department.</p> <p>Permittees shall be responsible for a minimum of 10% of the cost of the City Engineer (Municipal Code 17.32.250) for the cost of 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 dedication right-of-way, public utility easement or public service easement.</p> <p>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 provide scheduling of an inspection with the City Engineer's Representative.</p> <p>Contractor shall not destroy existing permanent survey monuments; whether property corners or street centerline monuments.</p> <p>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.</p> <p>Contractor shall only use equipment provided with a spark arrester device to reduce a potential fire hazard.</p> <p>ON-SITE CONSTRUCTION</p> <p>A grading permit shall be obtained from the City of Morgan Hill Building Division prior to any grading of building pads. Approval for the grading permit shall provide a plan review letter from the City 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.</p> <p>Contractor shall preserve all surrounding property by confining operations to within the "limits of the project". Contractor shall be responsible for all damages from off-site grading, including but not limited to, damage to property, trees, shrubs, and other vegetation, damage to structures, damage to utility lines, and damage to the property of neighbors. 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.</p> <p>RIGHT OF MODIFICATION</p> <p>Approval of an improvement plan does not release owner/subdivider of the responsibility for any grading, backfill, or other work performed within the right-of-way. If during the course of construction, a contractor 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.</p>	<p>OFF-SITE WATER AND DUST CONTROL</p> <p>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 Fire Department and an agreement of the water truck to a proper service or "dry-in" line. Contractor 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 up all street curbs, gutters, and sidewalks affected by the project at the end of each working day.</p> <p>MATERIAL STORAGE</p> <p>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.</p> <p>TRAFFIC CONTROL</p> <p>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 specific control in accordance with the latest edition of CALTRANS "Manual of Uniform Traffic Control Devices for Use on 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 shall be permitted after the contractor has 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.</p>	<p>SANITARY SEWER</p> <p>GENERAL</p> <p>All Sanitary Sewers shall be constructed in accordance with the City of Morgan Hill Standard Details. Sanitary sewers shall conform to the American Society for Testing and Materials (ASTM), and the American Water Works Association (AWWA), except as modified herein.</p> <p>SEWER LATERALS</p> <p>Manhole 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.</p> <p>TYPES OF SEWER MAN/LATERALS</p> <p>POLY-VINYL CHLORIDE (PVC)</p> <p>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 mains shall conform to AWWA C900 and installation conform to ASTM D 2774.</p> <p>ACRYLONITRILE-BUTADIENE-STYRENE (ABS) FOR REPAIRS ONLY</p> <p>Acrylonitrile-Butadiene-Styrene (4" to 12") solid wall pipe, shall conform to ASTM D 2751 (SDR 26).</p> <p>DUCTILE IRON PIPE (Polyurethane Lined & Polyethylene Enclosed)</p> <p>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 Enclosed shall be "POLYTHANE Film" as manufactured by U.S. Pipe or approved equal, and conform to AWWA C105.</p> <p>SEWER MAN/LATERAL INSTALLATION</p> <p>PVC/ABS solid wall pipe shall be installed per ASTM D2321 using sand as the embedding material. Sand shall conform to CALTRANS Section 19-3.0259.</p> <p>LATERALS</p> <p>The underground contractor shall keep an accurate record of all manholes and the distance between them and each curb lateral and their direction. Lateral shall be laid on a minimum 2% grade and shall be connected to the manhole as shown in Detail S-2 prior to construction of the curb and gutter. The concrete contractor shall stamp "S" on the face of curb directly above the lateral.</p>	<p>TESTING</p> <p>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.</p> <p>AIR TEST</p> <p>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.</p> <p>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.</p> <p>AIR TEST ON PRESSURE MAIN</p> <p>Force mains shall hold air pressure @100psi that is 50% higher than the normal operating 100psi pressure for a period of 3 minutes with pressure drop not to exceed 0.5 psi.</p> <p>WATER TEST</p> <p>In lieu of the air test a water test may be performed upon approval of the inspector. Where gradients are slight, two or more sections of manholes may be tested at the same time. The water level in the manholes tested at any one time shall not exceed 12 feet. All lines and branches not under test shall be plugged to prohibit overflow.</p> <p>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 1 foot in advance of the official test period to allow pipe and joints 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 upstream manhole shall be carefully measured from the top of the manhole rim to the water level. The height of water in the downstream manhole shall be measured from the same point on the manhole rim and recorded. The water level in the downstream manhole shall not exceed 4 gallons per hour per 1000 feet of line, including pipe penetrators.</p> <p>Manholes showing leakage in excess of the maximum shall be repaired or reconstructed as necessary to reduce leakage to the maximum specified above.</p> <p>The contractor's attention is directed to the fact that the stipulated maximum leakage is not a repair code. If repair is required, the repair must be 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.</p> <p>MANDREL TEST</p> <p>A Mandrel test may be required by the City Engineer. The Mandrel shall be 4% smaller than the inside diameter of the pipe tested.</p>	<p>TELEVISION INSPECTION</p> <p>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.</p> <p>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 to each Log, include location, orientation of all service laterals, the location and depth of sags, offset pipes, or any other points of significance.</p> <p>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.</p> <p>Measuring devices and depth tolerances for trapped water shall be as follows:</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Device</th> <th>Depth Tolerance</th> </tr> <tr> <td>6"</td> <td>0.08"</td> </tr> <tr> <td>8"</td> <td>0.13"</td> </tr> <tr> <td>10"</td> <td>0.16"</td> </tr> <tr> <td>12"</td> <td>0.20"</td> </tr> <tr> <td>15"</td> <td>10% of pipe area</td> </tr> </table> <p>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.</p> <p>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.</p> <p>MANHOLES</p> <p>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.</p>	Device	Depth Tolerance	6"	0.08"	8"	0.13"	10"	0.16"	12"	0.20"	15"	10% of pipe area
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<p>SEWER LATERAL</p> <p>DRAWING NO. S-2</p> <p>SEWER LATERAL CONNECTION OPTIONS</p> <p>DRAWING NO. S-3</p> <p>SANITARY SEWER MANHOLE PIPE SIZES 6" TO 36"</p> <p>DRAWING NO. S-4</p> <p>DROP MANHOLE</p> <p>DRAWING NO. S-5</p>																
<p>City of Morgan Hill Engineering & Utilities</p> <p>17575 PEAK AVE., MORGAN HILL, CA 95037 (408) 776-6480 FAX (408) 779-7236</p> <p>CITY OF MORGAN HILL</p>																
<p>Details East Dunne Sewer Upsize Project</p>																
<p>REVISIONS</p>																
<p>WORK ACCEPTED: INSPECTOR: DRAWN: DESIGN: HON:</p> <p>CHECKED: DATE: VERT: N/A</p> <p>KW KW 3/5/25 N/A</p> <p>APPROVED: DATE: JOB NO:</p> <p><i>SC</i> <i>3/12/25</i> WW3009</p> <p>NO. DESCRIPTION DATE BY</p> <p>REVISIONS</p>																
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<p>FILE NO. WW3009</p> <p>PLAN SET: 3/12/25</p> <p>DRAWING: 9 OF 10</p>																

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.

Contractor shall provide for a construction permit. The City Engineer (Municipal Code 17.32.250b) shall be commencing on completion of the project. An encroachment permit shall be obtained from the Public Works Department upon completion 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 arrester 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 grading of building pads. Applicant for the grading permit shall provide a plan review letter from the City Engineer. A grading permit does not give contractor permission to commence off-site grading. Only upon City approval of the improvement plans and completion of a pre-construction meeting, shall contractor commence off-site grading.

"Lining Work" Contractor shall be responsible for all costs for all adjoining residents, places of business, and families of all times and in all ways. Contractor shall make proper notification of 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 all of minor changes or alterations, contained within the plans. If during the course of construction, public interest requires changes or alterations 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.

GENERAL NOTES

GENERAL NOTES

DRAWING NO.
G-I

City of Morgan Hill
Public Works Department
Jim Bokholt
CITY ENGINEER
4/1/96
DATE
REVISED

OFF-SITE WATER AND DUST CONTROL

Contractor shall provide a water truck onsite at all times. Contractor will be obtaining a hydrant meter from the City of Morgan Hill Water Distribution System only after obtaining a hydrant meter from the Public Works Department and inspection of the water truck or hydrant meter determined to be fillable. Contractor shall pay for "off-site" construction water which shall not be used for building construction. Contractor shall keep a dust control construction activity to the maximum extent possible. Contractor shall not destroy existing street 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 necessary traffic control in accordance with the latest edition of CALTRANS "Manual of Uniform Traffic Signs, Lights, and Devices for Use in Performing 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 following conditions: not more than 2 (two) competent flagmen during construction operations. Street closures and detours shall only take place upon City Engineer approval and Police Department coordination.

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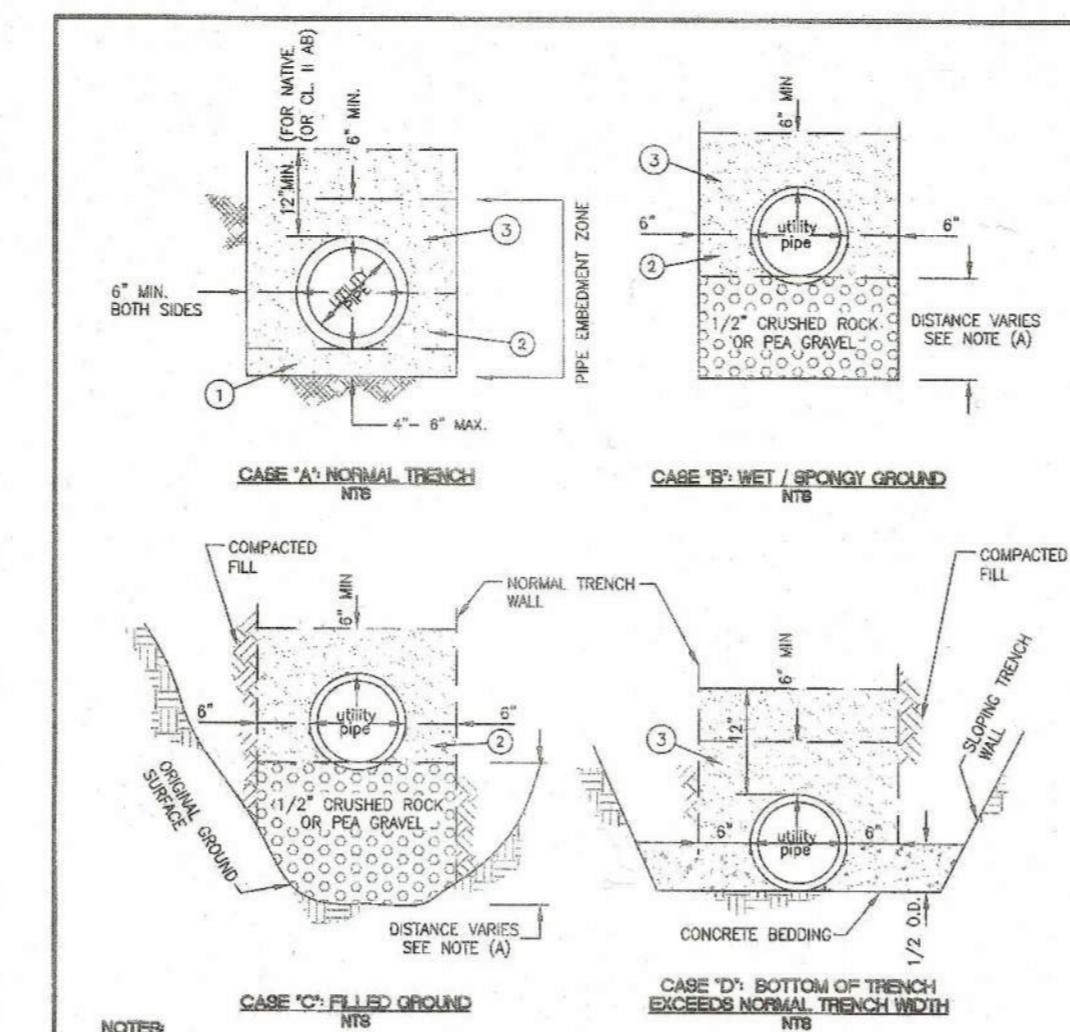
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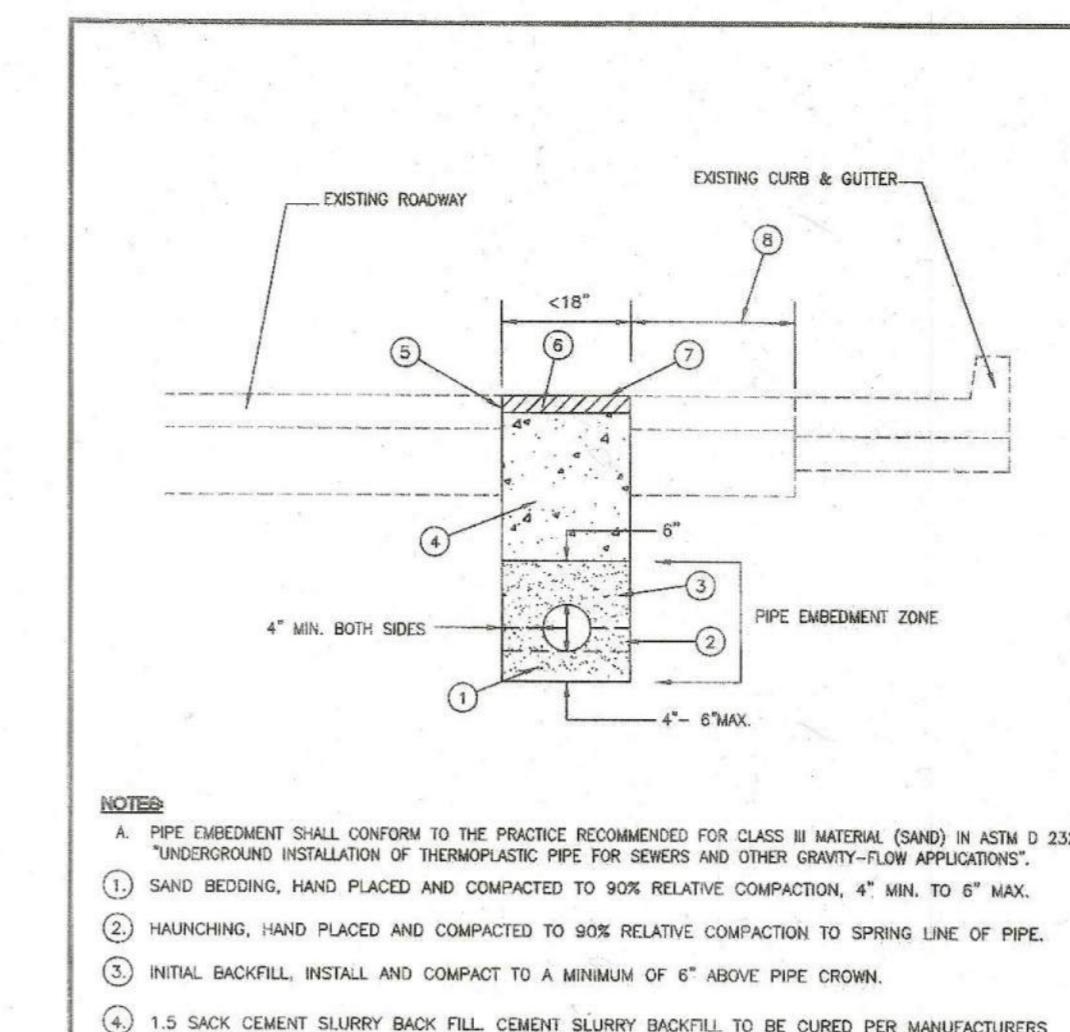
City of Morgan Hill
Public Works Department
Jim Bokholt
CITY ENGINEER
4/1/96
DATE
REVISED



NOTES

(A) DISTANCE WILL VARY BASED UPON FIELD CONDITIONS, AND SOLS REPORT RECOMMENDATIONS.
(B) PIPE EMBODIMENT SHALL CONFORM TO THE PRACTICE RECOMMENDED FOR CLASS III MATERIAL (SAND) IN ASTM D 2321 "UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS".
(1) SAND BEDDING, HAND PLACED AND COMPACTED TO MIN. 90% RELATIVE COMPACTION, 4" MIN. TO 6" MAX.
(2) HAUNCHING, HAND PLACED AND COMPACTED TO 90% RELATIVE COMPACTION TO SPRING LINE OF PIPE.
(3) INITIAL BACKFILL, INSTALL AND COMPACT TO A MINIMUM OF 6" ABOVE PIPE CROWN.
(4) 1.5 SACK CEMENT SLURRY BACK FILL, CEMENT SLURRY BACKFILL TO BE CURED PER MANUFACTURERS REQUIREMENTS PRIOR TO PAVING.
(5) SAW CUT EXISTING PAVEMENT, ALL VERTICAL EDGES SHALL BE TACKED PRIOR TO PAVING.
(6) 1 1/2" AC (1/2" TYPE B).
(7) SURFACE SHALL BE FOOG SEALED AFTER PAVING. EXISTING ROADWAY SURFACE SHALL BE REPLACED IN KIND (OL & SCREENED, SLURRY SEAL, ETC.)
(8) IF DISTANCE IS LESS THAN 3 FEET, PAVEMENT RESTORATION SHALL EXTEND TO LIP OF GUTTER.
(9) 6" (MIN) CLASS 2 AGGREGATE BASE ROCK, COMPACTED TO 95% RELATIVE COMPACTION.
(10) AT THE DISCRETION OF THE PROJECT INSPECTOR, THE EXISTING BASE ROCK MAY REMAIN FOR THIS TRENCH.
(11) IF PROVIDED THAT THE BASE ROCK IS COMPACTED AND IS NOT CONTAMINATED.
(12) MAX. 6" AC, 1/2" TYPE B AC.
(13) SURFACE SHALL BE FOOG SEALED AFTER PAVING. EXISTING ROADWAY SURFACE SHALL BE REPLACED IN KIND.
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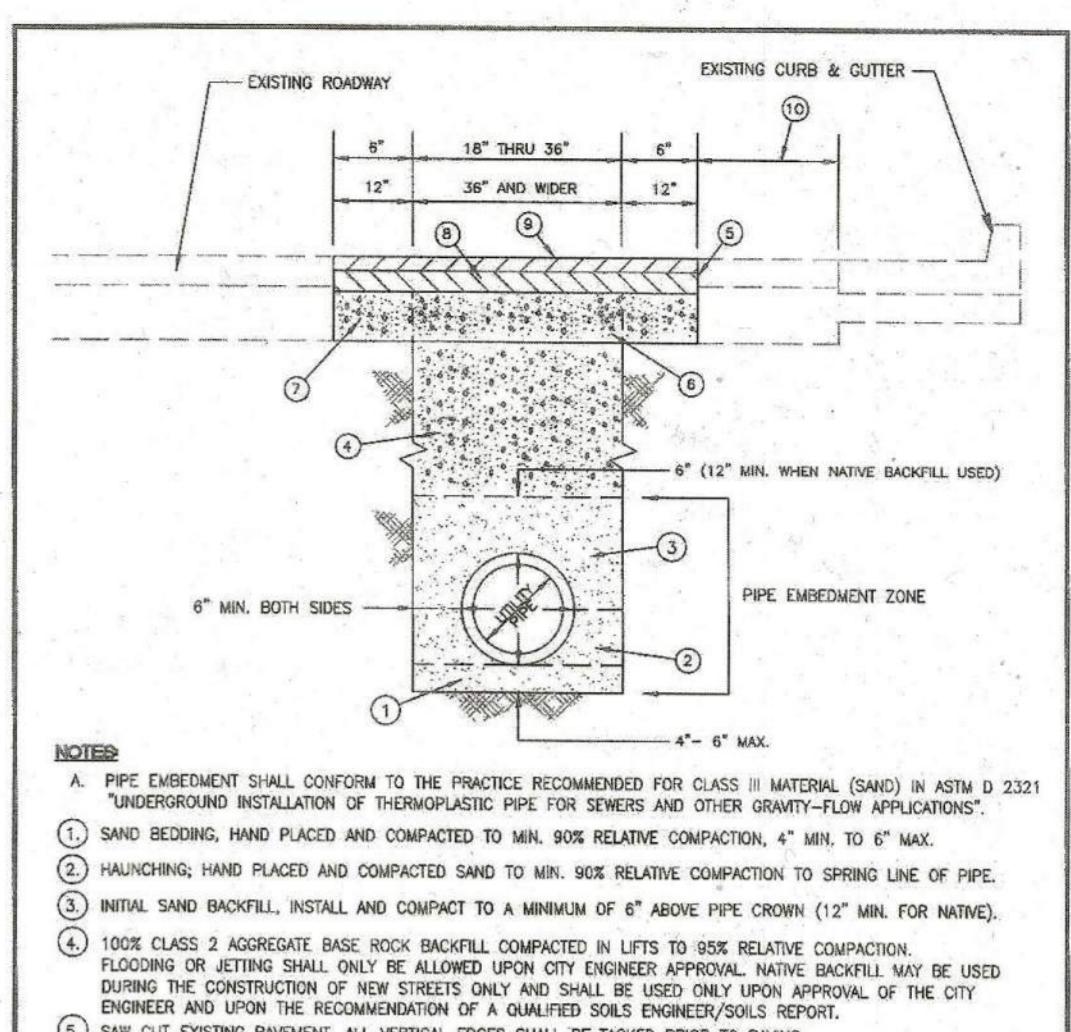
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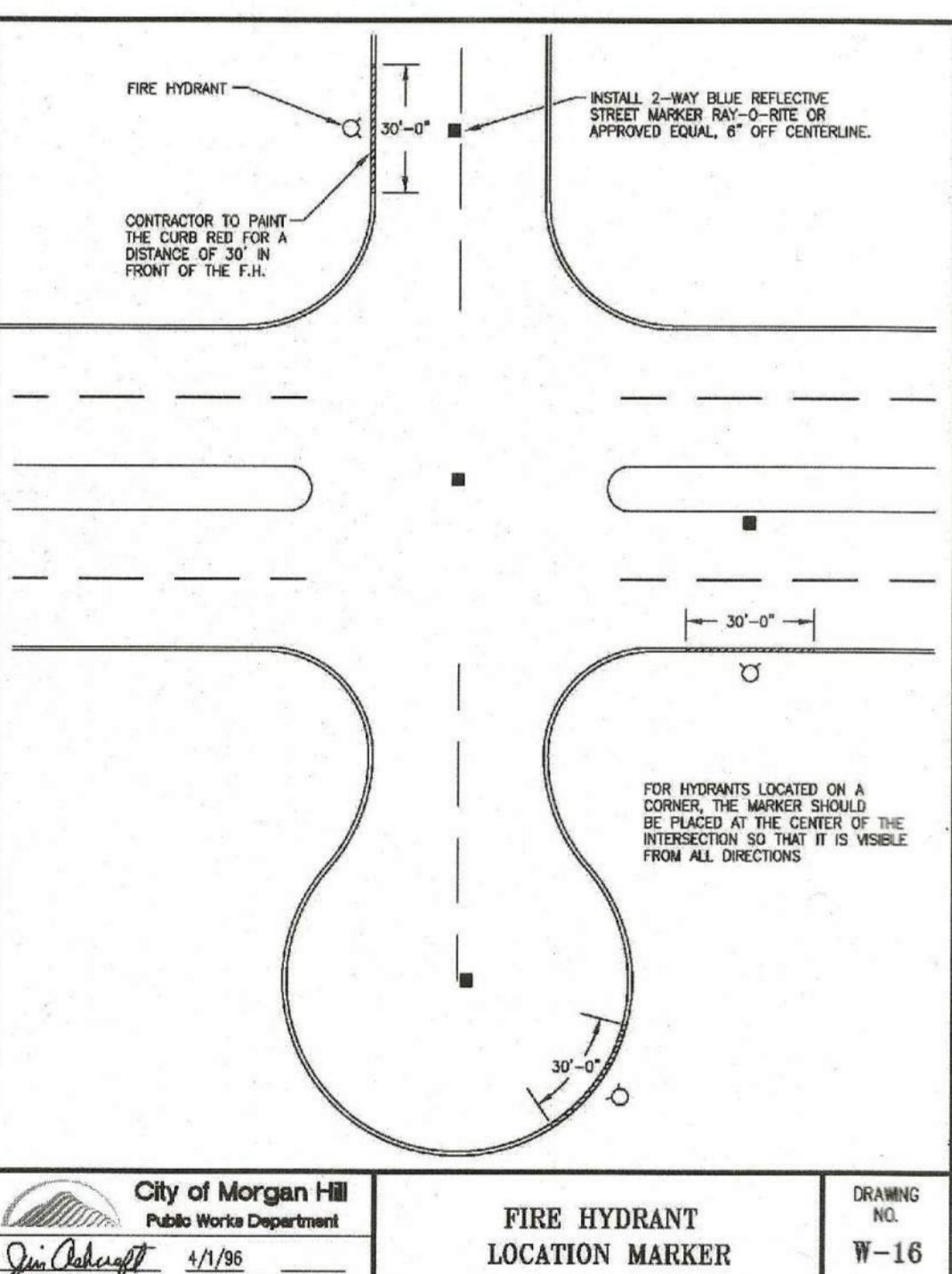
City of Morgan Hill
Public Works Department
Jim Bokholt
CITY ENGINEER
4/1/96
DATE
REVISED



NOTES

(A) PIPE EMBODIMENT SHALL CONFORM TO THE PRACTICE RECOMMENDED FOR CLASS III MATERIAL (SAND) IN ASTM D 2321 "UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS".
(1) SAND BEDDING, HAND PLACED AND COMPACTED TO MIN. 90% RELATIVE COMPACTION, 4" MIN. TO 6" MAX.
(2) HAUNCHING, HAND PLACED AND COMPACTED TO 90% RELATIVE COMPACTION TO SPRING LINE OF PIPE.
(3) INITIAL BACKFILL, INSTALL AND COMPACT TO A MINIMUM OF 6" ABOVE PIPE CROWN.
(4) 100% CLASS 2 AGGREGATE BASE ROCK BACKFILL COMPACTED IN LIFTS TO 95% RELATIVE COMPACTION.
(5) 100% CLASS 2 AGGREGATE BASE ROCK BACKFILL COMPACTED IN LIFTS TO 95% RELATIVE COMPACTION.
(6) HAUNCHING, HAND PLACED AND COMPACTED TO MIN. 90% RELATIVE COMPACTION TO SPRING LINE OF PIPE.
(7) 1.5 SACK CEMENT SLURRY BACK FILL, CEMENT SLURRY BACKFILL TO BE CURED PER MANUFACTURERS REQUIREMENTS PRIOR TO PAVING.
(8) SAW CUT EXISTING PAVEMENT, ALL VERTICAL EDGES SHALL BE TACKED PRIOR TO PAVING.
(9) 6" (MIN) CLASS 2 AGGREGATE BASE ROCK, COMPACTED TO 95% RELATIVE COMPACTION.
(10) AT THE DISCRETION OF THE PROJECT INSPECTOR, THE EXISTING BASE ROCK MAY REMAIN FOR THIS TRENCH.
(11) IF PROVIDED THAT THE BASE ROCK IS COMPACTED AND IS NOT CONTAMINATED.
(12) MAX. 6" AC, 1/2" TYPE B AC.
(13) SURFACE SHALL BE FOOG SEALED AFTER PAVING. EXISTING ROADWAY SURFACE SHALL BE REPLACED IN KIND.
(14) IF DISTANCE IS LESS THAN 3 FEET, PAVEMENT RESTORATION SHALL EXTEND TO LIP OF GUTTER.

City of Morgan Hill
Public Works Department
Jim Bokholt
CITY ENGINEER
4/1/96
DATE
REVISED

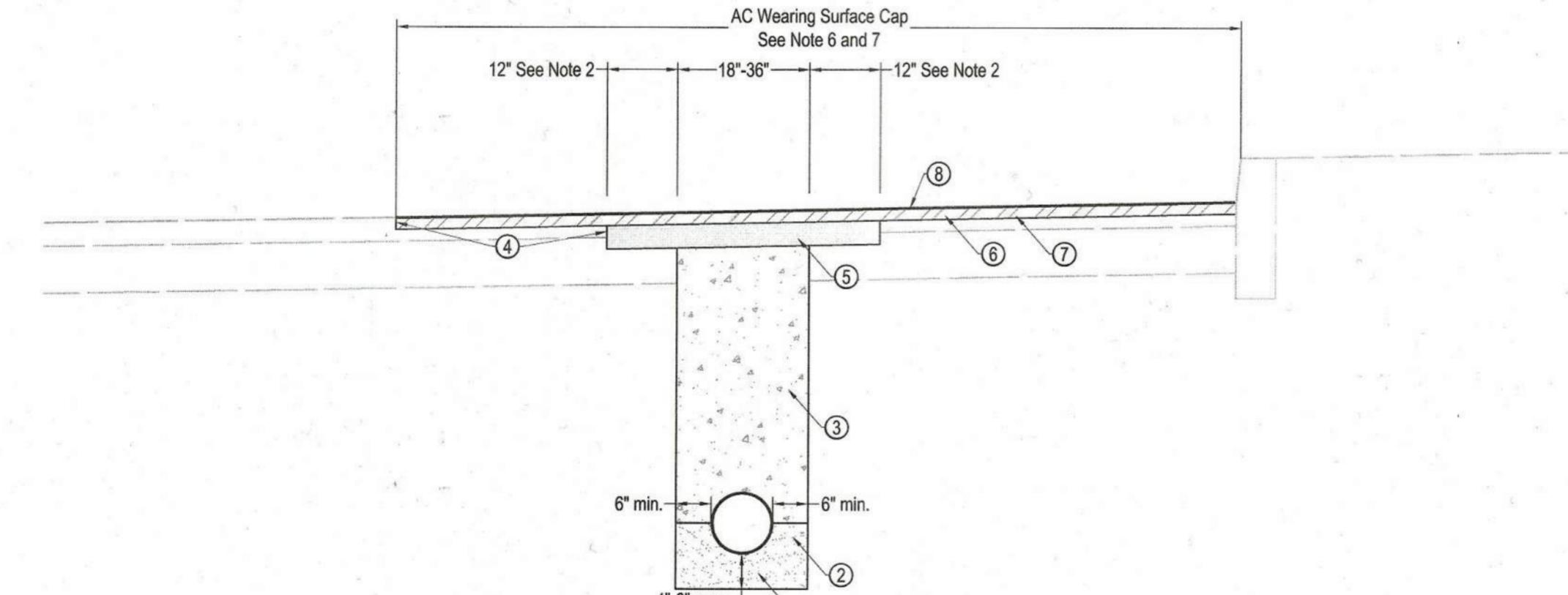


NOTES

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Detail 1: Concrete Saddle Detail

Scale: none



Notes

- A. Pipe embedment shall conform to the practice recommended for Class III material (sand) in ASTM D2321 "Underground Installation of Thermoplastic Pipe for Sewers and other Gravity-Flow Applications".
- B. A minimum of 3-day cure time shall be allowed for 1.5-sack equivalent controlled low-strength material backfill.
- C. Steel trench plates shall be flush with driving surface.
- (1) Sand Bedding, hand placed and compacted to min. 90% relative compaction, 4" to 6" maximum.
- (2) Haunching; hand placed and compacted to min. 90% relative compaction to spring line of pipe.
- (3) 1.5 sack equivalent controlled low-strength material backfill.
- (4) Saw cut existing pavement, all vertical edges shall be tacked prior to paving.
- (5) Min. 6" Type A asphalt concrete in two (2) lifts, or match existing, whichever is greater. Base course to be 3/4" Type A asphalt concrete, maximum, and surface course to be 1/2" Type A asphalt concrete, maximum.
- (6) Surface AC shall be 2" MHA Type A at 95% relative compaction, minimum.
- (7) Width of final A.C. Wearing Surface Cap shall be from lane line to lane line (or edge of pavement to lane line). Typical widths of vehicular travel lanes are 12 feet and minimum widths for bicycle lanes are 4', or as directed by the Project Inspector.
- (8) Surface shall be foog sealed after paving. Existing roadway surface shall be replaced in kind.

Trench Restoration Detail

Scale: none

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Details
East Dunne Sewer Upsize Project

FILE NO.
WW3009
PLAN SET:
DRAWING NO.
U-3
DATE:
3/12/25