

UNIVERSITY AVENUE APPR. 180' NORTH OF VASONA OAKS DRIVE
TOWN OF LOS GATOS
PROJECT NO. 25-816-0420

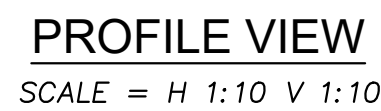


ABBREVIATIONS:

AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MIN	MINIMUM
AD	AREA DRAIN	(N)	NEW
BC	BACK OF CURB	NTS	NOT TO SCALE
CB	CATCH BASIN	RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE	RIM	RIM ELEVATION
DI	DROP INLET	R/W	RIGHT-OF-WAY
DIA	DIAMETER	SD CB	STORM DRAIN CATCH BASIN
EG	EXISTING GRADE	SD MH	STORM DRAIN MANHOLE
(E)	EXISTING	TC	TOP OF CURB
FC	FACE OF CURB	TPP	TYPICAL
GLIP	GUTTER LIP	W	WATER
HDPE	HIGH-DENSITY POLYETHYLENE	WVSD	WEST VALLEY SANITATION DISTRICT
INV	INVERT ELEVATION		

SYMBOL & LINETYPE LEGEND

	(E) & (N) STORM DRAIN
	(E) & (N) STORM DRAIN MH, CURB INLET & CB
	(E) & (N) AREA DRAIN
	(E) & (N) SANITARY SEWER
	(E) & (N) SANITARY SEWER MH & CB
	(E) & (N) VALVE, FH & WM/BFP
	PROPERTY BOUNDARY OR R/W
	LIMITS OF PAVEMENT RESTORATION
	(E) & (N) ELECTRIC
	(E) & (N) GAS
	(E) & (N) WATER
	(E) & (N) TELECOMMUNICATION



CONSTRUCTION NOTES

- | | |
|----|---|
| 10 | EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO (E) SANITARY SEWER FACILITIES. COORDINATE WORK WITH WYSD. |
| 14 | POTHOLE (E) SANITARY SEWER TO VERIFY DEPTH PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF CONFLICTS. |
| 22 | REMOVE (E) 36" CMP AND INSTALL (N) 36" CORRUGATED HDPE DUAL-WALL (SMOOTH INTERIOR, TYPE S) PIPE AT 4' LENGTH, 4% SLOPE INDICATED ON PLANS. TRENCH AND BACKFILL PER TOWN OF LOS GATOS STANDARD DETAIL SD-305 AND SD-306. BACKFILL AND COMPACT VOIDS WITHIN TRENCH WITH CLASS 2 AB, COMPACTED IN 6" LIFTS. IF COMPACTING VOIDS WITHIN TRENCH IS NOT FEASIBLE, BACKFILL WITH CLSM MIX. |
| 24 | CONNECT (N) SD PIPE TO (E) SD STRUCTURE. ENLARGE OPENINGS IN (E) SD STRUCTURE TO ACCOMMODATE LARGER OPENINGS OF (N) PIPE CONNECTIONS. PRIOR TO MORTAR JAIL, APPLY HYDROPHILIC VULCANIZED EXPANSIVE RUBBER STRIP AROUND THE ANNULAR JOINT WHERE THE (N) 36" CORRUGATED HDPE DUAL-WALL PIPE MEETS THE (E) CONCRETE STORM DRAIN STRUCTURE. |
| 27 | PROTECT IN PLACE (E) SD CB. |
| 29 | BACKFILL VOIDS OUTSIDE OF STORM DRAIN TRENCH LIMITS WITH CLSM MIX. ANY VOIDS ENCOUNTERED DURING CONSTRUCTION OUTSIDE OF THE TRENCH LIMITS SHALL BE PAID FOR IN BID ITEM 6. |
| 30 | RECONSTRUCT PORTIONS OF (E) CURB AND GUTTER AND/OR (E) VERTICAL CURB IF REMOVED/DAMAGED BY STORM DRAIN INSTALLATION. REFER TO TOWN OF LOS GATOS STANDARD DETAILS ST-210 AND ST-211 ON SHEET 07. |
| 34 | RECONSTRUCT PORTIONS OF (E) AC BERM IN-KIND IF REMOVED/DAMAGED BY STORM DRAIN INSTALLATION. |
| 35 | RECONSTRUCT PORTIONS OF (E) GUARDRAIL AND REFLECTOR IN-KIND IF REMOVED/DAMAGED BY STORM DRAIN INSTALLATION. |
| 36 | APPROXIMATE LIMITS OF AC PAVEMENT RESTORATION TO EXTEND 10' BEYOND EDGE OF TRENCH. COLD PLANE AC PAVEMENT 2" AND REPAVE WITH HOT MIX ASPHALT. |
| 45 | PROTECT IN PLACE (E) TREE. |

GENERAL NOTES :

- 1) ALL MATERIAL AND WORKMANSHIP SHALL FULLY CONFORM WITH THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE TOWN OF LOS GATOS. SEE GENERAL NOTES & SPECIFICATIONS ON SHEETS 02 - 06.
- 2) THE OFFICE OF PUBLIC WORKS INSPECTION SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF ANY WORK.
- 3) CONTRACTOR OR SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND CONDITIONS, ERRORS, OMISSIONS, DEFICIENCIES, OR DISCREPANCIES IN THESE PLANS OR ARE IN DOUBT OF THE MEANING OR INTENT, THEY SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING AND REQUEST CLARIFICATION. SHOULD THEY FAIL TO DO SO, THEY CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT.
- 4) THE ENGINEER OF RECORD PREPARING THESE PLANS IS NOT RESPONSIBLE OR LIABLE FOR ANY UNAUTHORIZED CHANGES TO THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE TOWN ENGINEER.
- 5) THE WORD "TYPICAL" OR "TYP" WHERE IT OCCURS MEANS THE SAME WORK APPLIES WHERE SIMILAR CONDITIONS OCCUR UNLESS NOTED OTHERWISE.
- 6) CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROLS AND SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SEE GENERAL NOTES & SPECIFICATIONS ON SHEETS 02 - 06.
- 7) CONTRACTOR SHALL PERFORM BYPASSING AND DEWATERING AS NEEDED TO MAINTAIN EXISTING STORM DRAIN FLOW AND FACILITATE EXCAVATION FOR REMOVAL/REPLACEMENT OF THE STORM DRAIN LINE. IF REQUIRED, CONTRACTOR SHALL SUBMIT A BYPASSING PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SEE GENERAL NOTES & SPECIFICATIONS ON SHEETS 02 - 06.

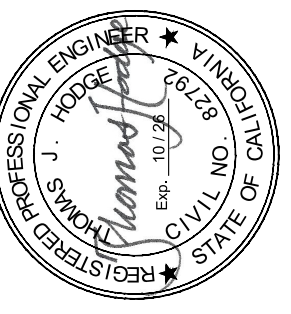
- 8) EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING OR SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE GENERAL NOTES & SPECIFICATIONS ON SHEETS 02 - 06.
- 9) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600 OR 811. ALL USA MARKINGS TO BE REMOVED AT END OF CONSTRUCTION.
- 10) EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AND IN PLACE BY THE CONTRACTOR DURING CONSTRUCTION UNLESS OTHERWISE SHOWN.
- 11) EXISTING UTILITIES AND IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE TOWN ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE. SEE GENERAL NOTES & SPECIFICATIONS ON SHEETS 02 - 06.
- 12) 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 THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT JUST DURING NORMAL WORKING HOURS.
- 13) RESTORE ALL (E) STRIPING AND PAVEMENT MARKINGS REMOVED/DAMAGED BY STORM DRAIN REPLACEMENT.
- 14) IF THE CONTRACTOR PROPOSES A FULL ROAD CLOSURE (I.E., NO THROUGH TRAFFIC), THE TRAFFIC CONTROL PLAN MUST CLEARLY REFLECT THIS AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE TOWN'S TRAFFIC ENGINEER. FULL ACCESS FOR TRAFFIC MUST BE RESTORED AT THE END OF EACH WORKDAY.

VASONA STORM DRAIN REPLACEMENT(PHASE 1)

UNIVERSITY AVE APPR. 180' NORTH OF VASONA OAKS DR

TITLE & PLAN SHEET

PROJECT NO. 25-816-0420
TOWN OF LOS GATOS, PARKS AND PUBLIC WORKS DEPARTMENT
41 MILLS AVENUE LOS GATOS, CA 95030



DATE: AUGUST 06, 2025

SCALE: 1:10

DESIGN: TJH

DRAWN: DGC

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ENGR:	TJH
PROJECT NO. 25-816-0420	

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SHEET 01 OF 08

K:\PROJECTS\2025\2506260 VASONA STORM DRAIN\DWG\03 - PLAN SHEET\BID PACKAGE\1-03 GENERAL.DWG PLOTTED BY: DANNEN GARY, 9/4/2025 4:07 PM
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TRAFFIC STRIPES... (CONT.)

5. WHERE STRIPING JOINS EXISTING STRIPING, AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL BEGIN AND END THE TRANSITION FROM THE EXISTING STRIPING PATTERN INTO OR FROM THE NEW STRIPING PATTERN A SUFFICIENT DISTANCE TO ENSURE CONTINUITY OF THE STRIPING PATTERN.
6. THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE FREE OF RUNS, BUBBLES, CRATERS, DRAG LUMXMARKS, STRETCH MARKS, AND DEBRIS. THERMOPLASTIC SHALL BE EXTRUDED AND PLACED IN ONE COAT AND SHALL BE PLACED FIVE DAYS AFTER THE FINAL SURFACING. SPRAYABLE THERMOPLASTIC IS NOT ALLOWED AFTER THE INSTALLATION OF SURFACE TREATMENTS (SLURRY SEAL, CHIP SEAL, RUBBER CHIP SEAL, OR MICROSURFACING).

APPLICATION

1. USE PREHEATERS WITH MIXERS HAVING 360 DEGREE ROTATION TO PREHEAT THE THERMOPLASTIC MATERIAL. APPLY THE THERMOPLASTIC IN A SINGLE UNIFORM LAYER BY EXTRUSION METHOD. COMPLETELY COAT AND FILL VOIDS IN THE PAVEMENT SURFACE WITH THE THERMOPLASTIC.

EXTRUDED THERMOPLASTIC

1. APPLY EXTRUDED THERMOPLASTIC AT A TEMPERATURE FROM 400 TO 425°F, UNLESS A DIFFERENT TEMPERATURE IS INSTRUCTED BY THE MANUFACTURER. APPLY EXTRUDED THERMOPLASTIC FOR A TRAFFIC STRIPE AT A RATE OF AT LEAST 0.20 LB./FT. OF 4-INCH WIDE SOLID STRIPE. THE APPLIED THERMOPLASTIC TRAFFIC STRIPE MUST BE AT LEAST 0.060 INCH THICK. AN APPLIED THERMOPLASTIC PAVEMENT MARKING MUST BE FROM 0.100 TO 0.150 INCH THICK. APPLY GLASS BEADS TO THE SURFACE OF THE MOLTEN THERMOPLASTIC AT A RATE OF AT LEAST 8 LB./100 SQ. FT.

PAVEMENT MARKERS AND ADHESIVES

1. PAVEMENT MARKERS SHALL CONFORM TO SECTION 81-3, "PAVEMENT MARKERS," OF THE CALTRANS STANDARD SPECIFICATIONS, AS SPECIFIED HEREIN, AND IN THE SPECIAL PROVISIONS.
2. FIRE HYDRANT MARKERS SHALL BE TWO-WAY, REFLECTIVE BLUE MARKERS.
3. ADHESIVE FOR PAVEMENT MARKERS SHALL BE RAPID SET TYPE EPOXY CONFORMING TO SECTION 95-2.04 OF THE CALTRANS STANDARD SPECIFICATIONS OR HOT MELT BITUMINOUS ADHESIVE CONFORMING TO SECTION 81-3 OF THE CALTRANS STANDARD SPECIFICATIONS.

GUARDRAIL

1. GUARDRAIL REMOVAL AND REPLACEMENT SHALL CONFORM TO CALTRANS STANDARD PLANS A77A AND A77B AND STANDARD SPECIFICATIONS SECTION 83. CONTRACTOR SHALL FURNISH AND INSTALL IN KIND, INCLUDING ALL POSTS, HARDWARE, AND TERMINAL SYSTEMS, AND ANY ATTACHED REFLECTORS, DELINEATORS, OR MARKERS. ALL COMPONENTS SHALL MATCH EXISTING CONDITIONS OR AS DIRECTED BY THE ENGINEER.

MEASUREMENTS AND PAYMENT

1. FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS, AND FOR DOING ALL THE WORK INVOLVED IN PROVIDING TRAFFIC STRIPES, PAVEMENT MARKINGS, AND MARKERS, INCLUDING MOBILIZATION, AS SHOWN ON THE PLANS, AS SPECIFIED IN THE 2024 CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO "REMOVE & REPLACE EXISTING 36" CMP WITH NEW 36" HDPE CORRUGATED DUAL-WALL (TYPE S) BY OPEN TRENCH METHOD" (BID ITEM 5).

GROUT

GENERAL

1. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO FURNISH AND PLACE GROUT AND SHALL FORM, MIX, PLACE, CURE, REPAIR, FINISH, AND DO ALL OTHER WORK AS NECESSARY TO PRODUCE FINISHED GROUT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

THE FOLLOWING TYPES OF GROUT SHALL BE COVERED IN THIS SECTION:

- a. NON-SHRINK GROUT IS TO BE USED UNLESS ANOTHER TYPE IS SPECIFICALLY REFERENCED OR AS SHOWN ON THE DRAWINGS.
- b. EPOXY GROUT
- c. CEMENT GROUT
- d. FLOWABLE CEMENT GROUT
- e. LOW VISCOSITY (PERMEATION) GROUT AND FAST SETTING INJECTED GROUT
- f. POLYMER GROUT
- g. NEAT CEMENT GROUT

REFERENCE SPECIFICATIONS, CODES, AND STANDARDS

1. ALL APPLICABLE WORK SHALL CONFORM TO THE FOLLOWING STANDARDS:
- a. ASTM C109 – TEST METHOD FOR COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTARS (USING 2-IN. OR 50-MM CUBE SPECIMENS)
- b. ASTM C531 – TEST METHOD FOR LINEAR SHRINKAGE AND COEFFICIENT OF THERMAL EXPANSION OF CHEMICAL-RESISTANT MORTARS, GROUTS, AND MONOLITHIC SURFACINGS
- c. ASTM C579 – TEST METHODS FOR COMPRESSIVE STRENGTH OF CHEMICAL-RESISTANT MORTARS, GROUTS, AND MONOLITHIC SURFACINGS
- d. C827 – TEST METHOD FOR CHANGE IN HEIGHT AT EARLY AGES OF CYLINDRICAL SPECIMENS FROM CEMENTITIOUS MIXTURES
- e. ASTM D696 – TEST METHOD FOR COEFFICIENT OF LINEAR THERMAL EXPANSION OF PLASTICS
2. PLASTICS; AND CRD-C 621 –CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT.

SUBMITTALS

1. CERTIFICATES OF COMPLIANCE SHALL BE PROVIDED FOR ALL PRODUCTS AND MATERIALS PROPOSED TO BE USED UNDER THIS SECTION.

PREPACKAGED GROUTS

1. NON-SHRINK GROUT:
- a. NON-SHRINK GROUT SHALL BE A PREPACKAGED, INORGANIC, NON-GAS-LIBERATING, NON-METALLIC, CEMENT-BASED GROUT REQUIRING ONLY THE ADDITION OF WATER. MANUFACTURER'S INSTRUCTIONS SHALL BE PRINTED ON EACH BAG OR OTHER CONTAINER IN WHICH THE MATERIALS ARE PACKAGED. THE SPECIFIC FORMULATION FOR EACH CLASS OF NON-SHRINK GROUT SPECIFIED HEREIN SHALL BE THAT RECOMMENDED BY THE MANUFACTURER FOR THE PARTICULAR APPLICATION.
- b. CLASS A NON-SHRINK GROUTS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI; SHALL HAVE NO SHRINKAGE (ZERO PERCENT) AND A MAXIMUM 4.0 PERCENT EXPANSION IN THE PLASTIC STATE WHEN TESTED IN ACCORDANCE WITH ASTM C827; AND SHALL HAVE NO SHRINKAGE (ZERO PERCENT) AND A MAXIMUM OF 0.2-PERCENT EXPANSION IN THE HARDENED STATE WHEN TESTED IN ACCORDANCE WITH CRD C621.
- c. CLASS B NON-SHRINK GROUTS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI AND SHALL MEET THE REQUIREMENTS OF CRD C621.
- d. APPLICATION:
- CLASS A NON-SHRINK GROUT SHALL BE USED FOR THE REPAIR OF ALL HOLES AND DEFECTS IN CONCRETE MEMBERS WHICH ARE WATER BEARING OR IN CONTACT WITH SOIL OR OTHER FILL MATERIAL, GROUTING UNDER ALL EQUIPMENT BASE PLATES, AND AT ALL LOCATIONS WHERE GROUT IS SPECIFIED; EXCEPT, FOR THOSE APPLICATIONS FOR CLASS B NON-SHRINK GROUT AND EPOXY GROUT SPECIFIED HEREIN, CLASS A NON-SHRINK GROUT MAY BE USED IN PLACE OF CLASS B NON-SHRINK GROUT FOR ALL APPLICATIONS. APPLY CLASS A GROUT TO ANNULAR SPACES, SPECIFICALLY WHERE PVC SANITARY SEWER CONNECTS TO PRECAST MANHOLES.
- CLASS B NON-SHRINK GROUT SHALL BE USED FOR THE REPAIR OF ALL HOLES AND DEFECTS IN CONCRETE MEMBERS WHICH ARE NOT WATER-BEARING AND NOT IN CONTACT WITH SOIL OR OTHER FILL MATERIAL.
2. EPOXY GROUT:
- a. EPOXY GROUT SHALL BE A POURABLE, NON-SHRINK, 100-PERCENT SOLIDS SYSTEM. THE EPOXY GROUT SYSTEM SHALL HAVE 3 COMPONENTS: RESIN, HARDENER, AND SPECIALLY BLENDED AGGREGATE. ALL PREMEASURED AND PREPACKAGED. THE RESIN COMPONENT SHALL NOT CONTAIN ANY NON-REACTIVE DILUENTS. RESINS CONTAINING BUTYL GLYCIDYL ETHER (BGE) OR OTHER HIGHLY VOLATILE AND HAZARDOUS REACTIVE DILUENTS ARE NOT ACCEPTABLE. VARIATION OF COMPONENT RATIOS IS NOT PERMITTED UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER. MANUFACTURER'S INSTRUCTIONS SHALL BE PRINTED ON EACH CONTAINER IN WHICH THE MATERIALS ARE PACKAGED.

GROUT (CONT.)

- b. THE CHEMICAL FORMULATION OF THE EPOXY GROUT SHALL BE THAT RECOMMENDED BY THE MANUFACTURER FOR THE PARTICULAR APPLICATION.
- c. THE MIXED EPOXY GROUT SYSTEM SHALL HAVE A MINIMUM WORKING LIFE OF 45 MINUTES AT 75 DEGREES F. AND SHALL MEET THE REQUIREMENTS OF CRD C621.
- d. THE EPOXY GROUT SHALL DEVELOP A COMPRESSIVE STRENGTH OF 5,000 PSI IN 24 HOURS AND 10,000 PSI IN 7 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C579, METHOD B. THERE SHALL BE NO SHRINKAGE (ZERO PERCENT) AND A MAXIMUM 4.0 PERCENT EXPANSION WHEN TESTED IN ACCORDANCE WITH ASTM C827.
- e. APPLICATION: EPOXY GROUT SHALL BE USED TO EMBED ALL ANCHOR BOLTS AND REINFORCING STEEL REQUIRED TO BE SET IN GROUT, AND FOR ALL OTHER SPECIFIED APPLICATIONS.
3. CEMENT GROUT:
- a. CEMENT GROUT SHALL BE COMPOSED OF ONE PART CEMENT, 3 PARTS SAND, AND THE MINIMUM AMOUNT OF WATER NECESSARY TO OBTAIN THE DESIRED CONSISTENCY. WHERE NEEDED TO MATCH THE COLOR OF ADJACENT CONCRETE, WHITE PORTLAND CEMENT SHALL BE BLENDED WITH REGULAR CEMENT AS NEEDED. THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4,000 PSI.
- b. CEMENT SHALL BE AS SPECIFIED IN SECTION 02537, "PRECAST CONCRETE MANHOLES."
- c. CEMENT GROUT SHALL NOT BE USED AS CONTACT GROUT FOR FILLING VOIDS CREATED DURING A TUNNEL OR SHAFT EXCAVATION.
4. FLOWABLE CEMENT GROUT
- a. FLOWABLE CEMENT GROUT: MINIMUM PENETRATION RESISTANCE OF 10 PSI IN 24 HOURS WHEN TESTED IN ACCORDANCE WITH ASTM C403 AND A 28-DAY UNCONFINED COMPRESSIVE STRENGTH OF 45-165 PSI.
- b. APPLICATION:
- VOID SPACES BETWEEN THE EARTH AND THE CASING PIPE.
 - INTERSTITIAL SPACE BETWEEN THE CASING PIPE AND CARRIER PIPE.

5. LOW VISCOSITY (PERMEATION) GROUT AND FAST SETTING INJECTED GROUT

- a. LOW VISCOSITY GROUT SHALL BE INJECTED TO PROVIDE STABILIZATION FOR THE FOLLOWING CONDITIONS:
- STABILIZE EXISTING UTILITY PIPELINES DURING TRENCHING AND EXCAVATION ACTIVITIES TO PREVENT DESTABILIZATION OF MATERIALS WHEN EXPOSED IN VERTICAL EXCAVATIONS.
 - STABILIZE MATERIALS THAT WOULD BE SUBJECT TO VIBRATION DENSIFICATION DURING NEARBY SHEET PILE DRIVING OR CONSTRUCTION ACTIVITY.
 - PREVENT POROUS AND PERMEABLE MATERIALS FROM TRANSMITTING PERCHED GROUNDWATER INTO PROJECT EXCAVATIONS.

- b. THE LOW VISCOSITY GROUT SHALL CONSIST OF PORTLAND CEMENT, WATER, AND FLUIDIZER ADDITIVES.
- c. GROUTING SHOULD COMPLETELY BIND THE GRANULAR MATERIAL INTO A SINGLE COHERENT GROUTED MASS (GROUTED PRISM).
- d. GROUT BATCH RECORDS SHALL INCLUDE TIME OF MIX, AMOUNT AND TYPE OF COMPONENTS USED, AND ANTICIPATED SET TIMES.
- e. FAST SETTING INJECTED GROUT SHALL BE USED IN ESTABLISHING BULKHEADS TO LIMIT THE SPREAD/FLOW OF LOW VISCOSITY GROUT. MIX ACCORDING TO THE FOLLOWING PROPORTIONS:
- COMPONENT A:
 - a. PORTLAND CEMENT TYPE I-JI: 8 SACKS @ 94 LBS. PER SACK
 - b. BENTONITE SUSPENDING AGENT: 0-50 LBS.
 - c. PGA EXPANSION AGENT: 0-3 LBS.
 - COMPONENT B:
 - a. SODIUM SILICATE: 40 GALLONS
 - b. WATER

6. NEAT CEMENT GROUT

- a. APPLICATION: USE FOR DEWATERING WELL ABANDONMENT.
- b. MIX ACCORDING TO THE FOLLOWING RATIO:
- 94 LBS. PORTLAND TYPE II CEMENT
 - GALLONS CLEAN WATER
 - UP TO 5% BENTONITE POWDER OR CHIPS

7. PRESSURE GROUTING EQUIPMENT

- a. PRESSURE GROUTING EQUIPMENT SHALL INCLUDE A MIXER AND HOLDOVER AGITATOR TANKS. GAGES SHALL BE PROVIDED TO INDICATE PRESSURE USED. THE MIXER SHALL BE PROVIDED WITH A METER CAPABLE OF INDICATING TO ONE-TENTH OF A CUBIC FOOT THE VOLUME OF GROUT USED. THE GROUT PUMP SHALL BE CAPABLE OF PUMPING LOW VISCOSITY GROUT.

8. CONSISTENCY

- a. THE CONSISTENCY OF GROUTS SHALL BE THAT NECESSARY TO COMPLETELY FILL THE SPACE TO BE GROUTED FOR THE PARTICULAR APPLICATION. DRY PACK CONSISTENCY IS SUCH THAT THE GROUT IS PLASTIC AND MOLDABLE BUT WILL NOT FLOW. WHERE "DRY PACK" IS SPECIFIED, IT SHALL MEAN A GROUT OF THAT CONSISTENCY; THE TYPE OF GROUT TO BE USED SHALL BE AS SPECIFIED HEREIN FOR THE PARTICULAR APPLICATION.

9. MEASUREMENT OF INGREDIENTS

- a. MEASUREMENTS FOR CEMENT GROUT SHALL BE MADE ACCURATELY BY VOLUME USING APPROPRIATE CONTAINERS. SHOVEL MEASUREMENT WILL NOT BE ALLOWED.
- b. PREPACKAGED GROUTS SHALL HAVE INGREDIENTS MEASURED BY MEANS RECOMMENDED BY THE MANUFACTURER.

10. GENERAL

- a. ALL SURFACE PREPARATION, CURING, AND PROTECTION OF CEMENT GROUT SHALL BE AS SPECIFIED IN SECTION 332538, "PRECAST CONCRETE STORM DRAIN STRUCTURES." THE FINISH OF THE GROUT SURFACE SHALL MATCH THAT OF THE ADJACENT CONCRETE.
- b. THE MANUFACTURER OF CLASS A NON-SHRINK GROUT AND EPOXY GROUT SHALL PROVIDE ON-SITE TECHNICAL ASSISTANCE UPON REQUEST.
- c. ALL MIXING, SURFACE PREPARATION, HANDLING, PLACING, CONSOLIDATION, AND OTHER MEANS OF EXECUTION FOR PREPACKAGED GROUTS SHALL BE DONE ACCORDING TO THE PRINTED INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.

11. CONSOLIDATION

- a. GROUT SHALL BE PLACED IN SUCH A MANNER, FOR THE CONSISTENCY NECESSARY FOR EACH APPLICATION, SO AS TO ASSURE THAT THE SPACE TO BE GROUTED IS COMPLETELY FILLED.

12. APPLICATION

- a. PRIOR TO PLACEMENT OF ANY SUBSURFACE GROUT, CONTRACTOR SHALL NOTIFY USA TO MARK SUBSCRIBING SUBSURFACE UTILITIES IN THE VICINITY OF PLANNED EXCAVATIONS AND GROUTING. USE PROJECT DRAWINGS AND MAKE DETAILED SITE INSPECTIONS TO LOCATE EXISTING SUBSURFACE UTILITIES PRIOR TO BEGINNING GROUTING/EXCAVATION OPERATIONS.
- b. GROUTING IS TO BE DONE PRIOR TO SHORING INSTALLATION AND PRIOR TO ANY DEWATERING.
- c. GROUT MIX SHALL BE DESIGNED AND INJECTED AT PRESSURES THAT WILL NOT DAMAGE ADJACENT UTILITIES. NO HEAVE OF GROUND SURFACE SHALL BE ALLOWED AND ALL EXISTING UTILITIES, PIPELINES, AND STRUCTURES SHALL BE PROTECTED FROM DAMAGE DURING APPLICATION AND CURING OF GROUT. INSTALL TEMPORARY ELEVATION BENCHMARKS IN GROUTING AREAS AND AT SUITABLE DISTANCES OUTSIDE OF GROUTING AREAS TO PROVIDE REFERENCE CHECKS AGAINST EXISTING ELEVATIONS. MONITOR ELEVATIONS OF EXISTING IMPROVEMENTS INCLUDING UTILITIES DURING ALL GROUTING OPERATIONS AND MAINTAIN DAILY LOGS OF CUMULATIVE CHANGES IN BENCHMARK ELEVATIONS.
- d. PROVIDE CONSTANT MONITORING OF EXISTING GRAVITY UTILITIES TO VERIFY NO INFLOW OF GROUT DURING GROUT PUMPING OPERATIONS. IMMEDIATELY CEASE GROUT PUMPING IF INTRUSION OCCURS. CONTRACTOR IS RESPONSIBLE TO REMOVE GROUT FROM ANY AFFECTED UTILITIES.
- e. NOTIFY THE TOWN IMMEDIATELY IF ELEVATION CHANGES GREATER THAN 0.25 INCHES OCCUR AND IMMEDIATELY CEASE ALL WORK IN AND AROUND THE AFFECTED AREA. REVISE AND RESUBMIT GROUTING PLAN FOR REVIEW BY THE ENGINEER PRIOR TO CONTINUATION OF WORK IN THE AFFECTED AREA.
- f. PUMP GROUT THROUGH GROUT INJECTION CASINGS UNTIL GROUT RETURNS ARE NOTED IN THE NEXT ADJACENT PRE-DRILLED/DRIVE GROUT INJECTION CASING.
- g. COORDINATE GROUT INJECTION PRESSURES (ALWAYS TO BE LESS THAN PRESSURES THAT COULD DAMAGE EXISTING UTILITIES), GROUT FLUIDITY/SET TIMES, AND GROUT INJECTION CASING LAYOUT DIMENSIONS.
- h. MAINTAIN DAILY LOG OF GROUTING OPERATIONS INCLUDING GROUT INJECTION CASING NUMBER, LOCATION, GROUTING PRESSURE AND RATE, STAGE DEPTH, AND GROUT QUANTITY AND BATCH USED.

GROUT (CONT.)

- i. SAMPLES SHALL BE TAKEN FROM EACH BATCH MIXED AND PROPERLY IDENTIFIED, STORED, AND TESTED TO VERIFY THAT COMPRESSIVE STRENGTH IS WITHIN SPECIFIED RANGE.
- j. DURING AND UPON COMPLETION OF GROUTING, THE WORK AREA SHALL BE CLEANED AND RESTORED TO ORIGINAL CONDITION INCLUDING ADEQUATE DISPOSAL OF ALL GENERATED WASTE AND WASTEWATER.
- k. REPAIR THE TOP OF EACH GROUT INJECTION HOLE TO MATCH EXISTING PAVEMENT GRADE.

MEASUREMENT AND PAYMENT

1. FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS AND FOR DOING ALL THE WORK INVOLVED IN GROUTING, INCLUDING MOBILIZATION, AS SHOWN ON THE PLANS, AS SPECIFIED IN THE 2024 CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO "REMOVE & REPLACE EXISTING 36" CMP WITH NEW 36" HDPE CORRUGATED DUAL-WALL (TYPE S) BY OPEN TRENCH METHOD" (BID ITEM 5).

DEWATERING

GENERAL

1. DEWATERING MAY BE REQUIRED FOR TRENCHING, DRILLING, AND OTHER WORK REQUIRING EXCAVATION. CONTRACTOR SHALL IMPLEMENT A GROUNDWATER MANAGEMENT PLAN WHICH INCLUDES THE FOLLOWING:
- a. KEEP ALL EXCAVATIONS, INCLUDING DRILLED SHAFT FOUNDATIONS, REASONABLY FREE FROM WATER DURING CONSTRUCTION.
- b. DISPOSAL OF WATER SHALL NOT DAMAGE PROPERTY OR CREATE A PUBLIC NUISANCE.
- c. HAVE ON HAND PUMP EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND WORKMEN AVAILABLE FOR ITS OPERATION.
- d. DEWATERING SYSTEMS SHALL OPERATE CONTINUOUSLY UNTIL FOUNDATIONS ARE POURED OR TRENCHES ARE BACKFILLED.
- e. GROUNDWATER SHALL BE CONTROLLED TO PREVENT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "QUICK" CONDITIONS.
- f. DEWATERING SYSTEMS SHALL NOT REMOVE NATURAL SOILS.
- g. CONTROL SURFACE RUNOFF TO PREVENT ENTRY OR COLLECTION OF WATER IN EXCAVATIONS.
- h. RELEASE OF GROUNDWATER SHALL BE CONTROLLED TO PREVENT DISTURBANCE OF THE NATURAL FOUNDATION SOILS OR COMPACTED FILL.
- i. THERE SHALL BE NO DISCHARGE OF TURBID WATER ON SITE.
- j. DISCHARGE OR DISPOSAL OF WATER SHALL BE CONTROLLED TO PREVENT EROSION ALONG ROADWAY EMBANKMENTS. EROSION CONTROL BMPS SUCH AS RIP RAP AND WATTLES SHALL BE IMPLEMENTED FOR THIS PURPOSE.
- k. DEWATERING EFFLUENT SHALL NOT BE DISCHARGED INTO TOWN SANITARY SEWER SYSTEM WITHOUT PRIOR APPROVAL FROM ENGINEER.

SUBMITTALS

1. DEWATERING PLAN SHALL BE SUBMITTED TO THE TOWN FOR REVIEW PRIOR TO THE START OF WORK.

MEASUREMENT AND PAYMENT

1. FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PREPARE, SUBMIT, REVISE, AND IMPLEMENT THE APPROVED DEWATERING PLAN, AND FOR DOING ALL THE WORK INVOLVED IN PROVIDING DEWATERING, INCLUDING MOBILIZATION, AS SHOWN ON THE PLANS, AS SPECIFIED IN THE 2024 CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO "REMOVE & REPLACE EXISTING 36" CMP WITH NEW 36" HDPE CORRUGATED DUAL-WALL (TYPE S) BY OPEN TRENCH METHOD" (BID ITEM 5).

EXCAVATION SAFETY AND SHORING

GENERAL

1. THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING TEMPORARY SHEETING, SHORING, BENCHING, AND BRACING IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE CONSTRUCTION SAFETY ORDERS OF THE STATE OF CALIFORNIA, PURSUANT TO SECTION 6707 OF THE CALIFORNIA LABOR CODE.
2. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: SHORING PLANS AND CALCULATIONS (PREPARED BY A CALIFORNIA- LICENSED CIVIL OR STRUCTURAL ENGINEER), INSTALLING AND MAINTAINING SHORING, BRACING, SHIELDING, AND SHEETING, AND INCLUDE CONFORMANCE TO APPLICABLE SAFETY ORDERS, AND ANY NECESSARY SUBSURFACE INVESTIGATIONS, AS SHOWN ON THE PLANS, AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
3. "EXCAVATION SAFETY" SHALL CONFORM TO SECTION 7-1.02K(6)(B) OF THE 2024 CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS.

SUBMITTALS

1. SHEETING, SHORING, BENCHING, AND BRACING PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWN FOR REVIEW PRIOR TO THE START OF WORK.

EXECUTION

1. THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING TEMPORARY SHEETING, SHORING, BENCHING, AND BRACING IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA AND THE CONSTRUCTION SAFETY ORDERS OF THE STATE OF CALIFORNIA, PURSUANT TO THE PROVISIONS OF SECTION 6707 OF THE CALIFORNIA LABOR CODE. SHEETING, SHORING, BENCHING, AND BRACING PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWN PRIOR TO THE START OF WORK.
2. ATTENTION IS DIRECTED TO THE REQUIREMENTS IN SECTION 6705 OF THE LABOR CODE CONCERNING TRENCH EXCAVATION SAFETY PLANS. EXCAVATIONS SHALL BE ADEQUATELY SHORED AND BRACED SO THAT THE EARTH WILL NOT SLIDE, MOVE, OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE.
3. ATTENTION IS CALLED TO ARTICLE 6 OF "CONSTRUCTION SAFETY ORDERS" OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, THAT THE CONTRACTOR IS REQUIRED BY LAW TO OBEY AND WHICH ARE ADOPTED BY REFERENCE AS PART OF THESE SPECIAL PROVISIONS. ATTENTION IS DIRECTED TO PUBLIC CONTRACT CODE SECTION 7104, WHICH REQUIRES THE CONTRACTOR TO PROMPTLY NOTIFY THE TOWN OF LOS GATOS WHEN WORKING ON A CONTRACT INVOLVING THE DIGGING OF TRENCHES OR EXCAVATIONS IN EXCESS OF FOUR FEET BELOW THE SURFACE, AND WHEN ANY OF THE FOLLOWING ARE ENCOUNTERED:
- a. MATERIAL THAT THE CONTRACTOR BELIEVES MAY BE HAZARDOUS WASTE, AS DEFINED IN SECTION 25117 OF THE HEALTH AND SAFETY CODE THAT IS REQUIRED TO BE REMOVED TO A CLASS I, CLASS II, OR CLASS III DISPOSAL SITE IN ACCORDANCE WITH THE PROVISIONS OF EXISTING LAW.
- b. SUBSURFACE OR LATENT PHYSICAL CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATE
- c. UNKNOWN PHYSICAL CONDITIONS AT THE SITE OF ANY UNUSUAL NATURE, DIFFERENT MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR THE CONTRACT. SUCH NOTIFICATION SHALL BE IN WRITING AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO DISTURBING ANY OF THE ABOVE CONDITIONS.
- d. ENTRY AND RECEIVING PITS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- PROTECTED BY THE PLACEMENT OF A 6-FOOT CHAIN-LINK FENCE OR TYPE K BARRIER.
 - SHORING IN ACCORDANCE WITH CAL-OSHA REQUIREMENTS.
4. THE SHORING METHOD'S CHOICE SHALL BE LEFT TO THE CONTRACTOR'S JUDGMENT BASED ON EXPERIENCE, ECONOMIC CONSIDERATIONS, AND ADJACENT IMPROVEMENTS SUCH AS UTILITIES, PAVEMENTS, AND FOUNDATION LOADS. TEMPORARY SHORING SHOULD SUPPORT ADJACENT IMPROVEMENTS WITHOUT DISTRESS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5. IN ADDITION TO SOIL EARTH PRESSURES, THE SHORING SYSTEM WILL NEED TO SUPPORT ADJACENT LOADS SUCH AS CONSTRUCTION VEHICLES AND INCIDENTAL LOADING, EXISTING STRUCTURE FOUNDATION LOADS, AND STREET LOADING. HEAVY CONSTRUCTION LOADS (CRANES, ETC.) AND MATERIAL STOCKPILES SHALL BE KEPT AT LEAST 15 FEET BEHIND THE SHORING. WHERE THIS LOADING CANNOT BE SET BACK, THE SHORING WILL NEED TO BE DESIGNED TO SUPPORT THE LOADING. THE SHORING DESIGNER SHALL PROVIDE FOR TIMELY AND UNIFORM MOBILIZATION OF SOIL PRESSURES THAT WILL NOT RESULT IN EXCESSIVE LATERAL DEFLECTIONS.

6. A CALIFORNIA-LICENSED CIVIL OR STRUCTURAL ENGINEER MUST DESIGN AND BE IN RESPONSIBLE CHARGE OF THE TEMPORARY SHORING DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, AS WELL AS SITE SAFETY. TEMPORARY SHORING DESIGN CALCULATIONS SHALL BE SUBMITTED

EXCAVATION SAFETY (CONT.)

- TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-1.02K(6) (A, B AND D), "OCCUPATIONAL SAFETY AND HEALTH STANDARDS" OF THE 2024 CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS.

4. THE SHORING METHOD'S CHOICE SHALL BE LEFT TO THE CONTRACTOR'S JUDGMENT BASED ON EXPERIENCE, ECONOMIC CONSIDERATIONS, AND ADJACENT IMPROVEMENTS SUCH AS UTILITIES, PAVEMENTS, AND FOUNDATION LOADS. TEMPORARY SHORING SHOULD SUPPORT ADJACENT IMPROVEMENTS WITHOUT DISTRESS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

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MEASUREMENT AND PAYMENT

1. FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS AND FOR DOING ALL THE WORK INVOLVED IN PROVIDING EXCAVATION SAFETY AND SHORING, INCLUDING MOBILIZATION, SHORING PLANS AND CALCULATIONS (PREPARED BY A CALIFORNIA-LICENSED CIVIL OR STRUCTURAL ENGINEER), INSTALLING AND MAINTAINING SHORING, BRACING, SHIELDING, AND SHEETING, AND INCLUDE CONFORMANCE TO APPLICABLE SAFETY ORDERS, AND ANY NECESSARY SUBSURFACE INVESTIGATIONS, AS SHOWN ON THE PLANS, AS SPECIFIED IN THE 2024 CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER, SHALL BE CONSIDERED INCIDENTAL TO "REMOVE & REPLACE EXISTING 36" CMP WITH NEW 36" HDPE CORRUGATED DUAL-WALL (TYPE S) BY OPEN TRENCH METHOD" (BID ITEM 5).

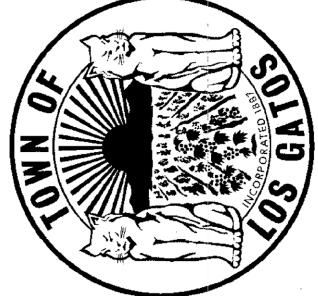
FLOW BYPASS SYSTEM

GENERAL

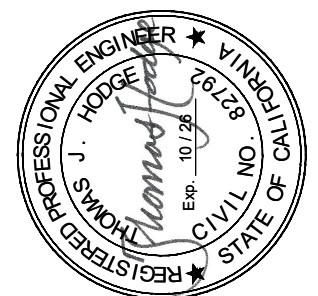
1. PERFORMANCE REQUIREMENTS
- a. IT IS ESSENTIAL TO THE OPERATION OF THE TOWN'S STORM DRAIN SYSTEM THAT THERE BE NO SERVICE INTERRUPTION FOR THE CUSTOMERS AND THAT THE FLOW OF STORM DRAIN THROUGHOUT THE DURATION OF THE PROJECT BE DONE IN A MANNER THAT DOES NOT ENDANGER PUBLIC HEALTH OR THE ENVIRONMENT. PROVIDE, MAINTAIN, AND OPERATE ALL TEMPORARY FACILITIES SUCH AS DAMS, PLUGS, FLOW-THROUGH PLUGS, PUMPING EQUIPMENT (BOTH PRIMARY AND BACKUP UNITS AS REQUIRED), CONDUITS, AND ALL NECESSARY POWER TO INTERCEPT THE STORM DRAIN FLOW BEFORE IT REACHES THE POINT WHERE IT WOULD INTERFERE WITH THE WORK, CARRY IT PAST THE WORK, AND RETURN IT TO THE EXISTING STORM DRAIN DOWNSTREAM OF THE WORK.
- b. DESIGN, INSTALL, AND OPERATE TEMPORARY FLOW BYPASS AND PUMPING SYSTEMS WHERE REQUIRED.
- c. CONVEY THE STORM DRAIN FLOW SAFELY PAST THE WORK AREA. DO NOT STOP OR IMPEDE THE MAIN FLOWS UNDER ANY CIRCUMSTANCES.
- d. MAINTAIN STORM DRAIN FLOW AROUND AND WITHIN THE WORK AREA IN A MANNER THAT WILL NOT CAUSE SURCHARGING OF STORM DRAIN LINES, DAMAGE TO STORM DRAINS, AND THAT WILL PROTECT PUBLIC AND PRIVATE PROPERTY FROM DAMAGE AND FLOODING, INCLUDING THE ROUTING OF STORM DRAIN OVERFLOW IN THE EVENT OF FAILURE OF ANY BYPASS SYSTEM.
- e. PROTECT WATER RESOURCES, WETLANDS, AND OTHER NATURAL RESOURCES.
- f. QUALIFIED PERSONNEL RESPONSIBLE FOR BYPASS PUMPING OPERATIONS 24 HOURS PER DAY, 7 DAYS PER WEEK, INCLUDING HOLIDAYS.
2. DESIGN REQUIREMENTS:
- a. PROVIDE FLOW THROUGH PLUGS, PUMPS OF ADEQUATE SIZE TO HANDLE PEAK FLOW, AND/OR TEMPORARY DISCHARGE PIPING, TO ENSURE THAT THE TOTAL FLOW OF THE VARIOUS PIPELINES AND SERVICE CONNECTIONS CAN BE SAFELY DIVERTED AROUND THE SECTIONS TO BE REHABILITATED.
- b. INSTALL A MINIMUM OF TWO PUMPS WHERE PUMPING IS REQUIRED, EACH OF WHICH SHALL BE CAPABLE OF PUMPING THE TOTAL CONTRIBUTING FLOWS (100 PERCENT REDUNDANCY). ALL PUMPS SHALL BE ONLINE, ISOLATED BY INDIVIDUAL VALVES, AND BE READY FOR USE WITHIN FIVE MINUTES IN THE EVENT OF AN EMERGENCY OR BREAKDOWN OF AN ON-LINE PUMP.
- c. PROVIDE ONSITE PORTABLE LIGHTS FOR EMERGENCY USE ONLY.
- d. PROVIDE STANDBY POWER FACILITIES FOR EMERGENCY USE IF PUMPS ARE EQUIPPED WITH ELECTRIC MOTORS.
- e. ALL JOINTS OF PIPE USED SHALL BE RESTRAINED.
- f. CONTRACTOR SHALL PROVIDE PIPELINE PLUGS AS NECESSARY FOR ALL SHUTDOWNS, TEMPORARY BYPASS OPERATIONS, OR WHERE HANDLING OF UPSTREAM FLOWS IS PROPOSED IN LIEU OF OR IN ADDITION TO BYPASS PUMPING.
- g. METHOD OF WORK AND LAYOUT OF EQUIPMENT FOR BYPASS SYSTEM CONVEYANCE ACROSS STREETS AND INTERSECTIONS SHALL BE INCLUDED WITH AND APPROVED BY THE GOVERNING ENCROACHMENT PERMIT FOR THE JURISDICTION. ALLOWED AT-GRADE CONVEYANCE SCHEME SHALL INCLUDE ADEQUATE TRAFFIC CONTROL DEVICES AND PERSONNEL, AS PER GOVERNING ENCROACHMENT PERMIT. BURIED CONVEYANCE SCHEME SHALL ALSO INCLUDE ADEQUATE TRAFFIC CONTROL DEVICES AND PERSONNEL AS PER GOVERNING ENCROACHMENT PERMIT. ALL TRENCHING WILL BE RESTORED PER GOVERNING ENCROACHMENT PERMIT.

SUBMITTALS

1. DETAILED PLANS AND DESCRIPTIONS OUTLINING COMPLETE FLOW BYPASS PUMPING SYSTEM FOR FLOW RETROFITTING. BYPASS SYSTEM PLAN SHALL INCLUDE AN EMERGENCY RESPONSE PLAN TO BE FOLLOWED IN THE EVENT OF A FAILURE OF THE BYPASS SYSTEM, AND SHALL OUTLINE IN DETAIL THE PROPOSED SEQUENCING FOR ALL PROPOSED SYSTEM OUTAGES, SYSTEM STARTUP AND SWITCHOVERS, INCLUDING TIME OF DAY AND AMOUNT OF TIME REQUIRED, AND EMERGENCY RESPONSE DETAILS REGARDING PERSONNEL INVOLVED AND CLEANUP PROCEDURES AS APPLICABLE. ALL PLANS SHALL BE SUBMITTED TO THE ENGINEER AT LEAST 8 WEEKS PRIOR TO REQUIRED OPERATION OF BYPASS SYSTEM. SEWER SYSTEM OUTAGES ARE NOT PERMITTED.
2. WHERE PUMPING IS REQUIRED, SUBMIT COMPLETE INFORMATION ON PUMPING SYSTEM. LOCATION FOR TEMPORARY PUMPS, PIPE ROUTING, MANHOLE TIE IN LOCATIONS, AND PUMPING AND FLOW HANDLING METHODS SHALL BE SUBMITTED WITH BYPASS SYSTEM PLAN. IF FLOW HANDLING WITHOUT A BYPASS SYSTEM (I.E., PLUGGING UPSTREAM PIPELINES AND UTILIZING A COMBO TRUCK TO CAPTURE UPSTREAM FLOWS) IS PROPOSED, CONTRACTOR SHALL PROVIDE SUFFICIENT DETAIL IN THE BYPASS SYSTEM PLAN FOR THE COMPLETE OPERATION OF THE FLOW HANDLING SCHEME.
3. WHERE STANDBY GENERATORS ARE REQUIRED, SUBMIT COMPLETE INFORMATION ON GENERATION SYSTEM.
4. ALL BYPASS PUMPING EQUIPMENT SHALL BE RATED FOR LOW NOISE RATE COMPLIANCE, DECIBELS OF THE ENTIRE OPERATION SHALL NOT EXCEED 86 DBA AT 50 FEET FOR WORK DURING NORMAL WORKING HOURS. IF PUMPING IS REQUIRED OUTSIDE NORMAL WORKING HOURS, GENERATORS SHALL BE "WHISPER QUIET" AND RATED FOR LOW NOISE RATE COMPLIANCE IN RESIDENTIAL NEIGHBORHOODS AND PER GOVERNING JURISDICTION. GENERATORS SHALL NOT PRODUCE NOISE SUCH THAT A REASONABLE PERSON OF NORMAL SENSITIVENESS RESIDING IN THE WORK AREA IS CAUSED DISCOMFORT OR ANNOYANCE. THE CONTRACTOR SHALL SUBMIT PROPOSED EQUIPMENT, INCLUSIVE OF DBA RATINGS TO THE ENGINEER FOR APPROVAL PRIOR TO USE.



ANNUAL STORM DRAIN IMPROVEMENTS PROJECT
VASONA STORM DRAIN REPLACEMENT(PHASE 1)
UNIVERSITY AVE APPR. 180' NORTH OF VASONA OAKS DR
GENERAL NOTES & SPECIFICATIONS



DATE: AUGUST 06, 2025	SCALE: 1"=10'	DESIGN: T-JH	DRAWN: DCC	CHECK: REB	ENGR: T-JH
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K:\PROJECTS\2025\250360 VASONA STORM DRAIN\DWG\03 - PLAN SHEETS\BID PACKAGE\1\03 GENERAL.DWG PLOTTED BY: DARRIN CHAY 9/4/2025 4:07 PM

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FLOW BYPASS SYSTEM (CONT.)

5. PROVIDE EMERGENCY CONTACT NAMES AND PHONE NUMBERS OF CONTRACTOR'S SUPERVISOR AND PERSONNEL QUALIFIED TO REMEDIATE ANY DISRUPTION IN BYPASS PUMPING OPERATIONS.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO SAFELY CONVEY THE SEWAGE PAST THE WORK AREA.
- IF PUMPING IS REQUIRED OUTSIDE NORMAL WORKING HOURS, GENERATORS SHALL BE "WHISPER QUIET" AND RATED FOR LOW NOISE RATE COMPLIANCE IN RESIDENTIAL NEIGHBORHOODS AND PER GOVERNING JURISDICTION. GENERATORS SHALL NOT PRODUCE NOISE SUCH THAT A REASONABLE PERSON OF NORMAL SENSITIVENESS RESIDING IN THE WORK AREA IS CAUSED DISCOMFORT OR ANNOYANCE. THE CONTRACTOR SHALL SUBMIT PROPOSED EQUIPMENT, INCLUSIVE OF DBA RATINGS TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
5. PROVIDE EMERGENCY CONTACT NAMES AND PHONE NUMBERS OF CONTRACTOR'S SUPERVISOR AND PERSONNEL QUALIFIED TO REMEDIATE ANY DISRUPTION IN BYPASS PUMPING OPERATIONS.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO SAFELY CONVEY THE STORM DRAINAGE PAST THE WORK AREA.
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE TOWN SHOULD A STORM DRAINAGE OVERFLOW (SDO) OCCUR AND TAKE ALL NECESSARY ACTIONS TO CONTROL, TO CONTAIN, AND TO CLEAN UP THE SPILLAGE TO THE SATISFACTION OF THE TOWN AND/OR OTHER GOVERNMENTAL AGENCY. IF STORM DRAINAGE IS SPILLED INTO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL WASH DOWN, AND CLEAN UP THE SPILLAGE TO THE SATISFACTION OF THE PROPERTY OWNER, TOWN, AND/OR OTHER GOVERNMENTAL AGENCY.

QUALITY ASSURANCE

1. CONTRACTOR TO BE COMPLETELY RESPONSIBLE FOR ANY OVERFLOW OR SPILLAGE OF ANY MATERIAL DUE TO FAILURE OF ANY PORTION OF THE FLOW BYPASS SYSTEM.
2. CONTRACTOR SHALL PAY ALL FINES OR COSTS ASSOCIATED WITH SUCH SPILLAGES, THIS CONDITION IS IN ADDITION TO INDEMNIFICATION AND INSURANCE PROVISIONS DEFINED ELSEWHERE FOR THE WORK.
3. CONTRACTOR TO BE RESPONSIBLE FOR ANY CLEANUP OR RESTORATION RESULTING FROM SUCH SPILLAGES.
4. CONTRACTOR SHALL DEMONSTRATE THAT FLOW BYPASS SYSTEM PERFORMS IN CONFORMANCE WITH THESE REQUIREMENTS PRIOR TO PUTTING INTO USE. DEMONSTRATION SHALL REQUIRE ENGINEER'S CONCURRENCE FOR PROPER OPERATIONS.
5. CONTRACTOR SHALL PROVIDE FLOW BYPASS AROUND THE SECTION OF PIPE DESIGNATED FOR REHABILITATION. THE BYPASS SYSTEM SHALL BE MADE BY PLUGGING THE LINE AT AN EXISTING UPSTREAM MANHOLE(S) AND PUMPING THE FLOW INTO A DOWNSTREAM MANHOLE OR ADJACENT SYSTEM. THE PUMP AND BYPASS LINES SHALL BE OF ADEQUATE CAPACITY AND SIZE TO HANDLE THE FLOW.

FLWS

1. CONTRACTOR TO VERIFY FLOWS FOR PROJECT AREA FLOW BYPASS. FLOW DATA, IF AVAILABLE, MAY BE REQUESTED BY THE CONTRACTOR FROM THE ENGINEER OR TOWN OF LOS GATOS.

PRODUCTS

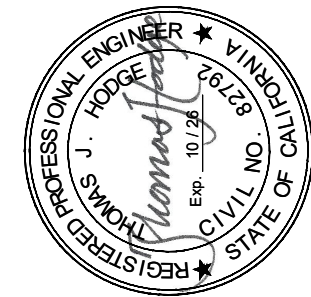
1. PUMP SYSTEMS —PUMPS MAY BE GAS, ELECTRIC, OR DIESEL POWERED.
- a. PUMPS MAY BE END SUCTION OR SUBMERSIBLE.
- b. BYPASS PIPING SHALL BE RUBBER GASKETED, WITH A MINIMUM PRESSURE RATING OF 50 PSI AND NO VISIBLE LEAKS UNDER OPERATING CONDITIONS. PIPE SUPPORTS, THRUST RESTRAINTS AND VALVES SHALL BE PROVIDED, INCLUDING AN AIR VALVE AT THE HIGH POINT. PIPING SHALL BE SUFFICIENTLY RESTRAINED AND SUPPORTED TO PREVENT MOVEMENT DURING PUMP CYCLING. LAY FLAT RUBBER HOSE SHALL NOT BE USED.
- c. TEMPORARY FENCING, GATES, LOOKS AND SCREENING SHALL BE PROVIDED TO PROTECT AND SCREEN THE EQUIPMENT FROM THE PUBLIC, AND MAINTAIN SECURITY FOR ALL PROPERTIES WHOSE SECURITY IS AFFECTED BY THE BYPASS FLOW SYSTEM. CONTRACTOR SHALL PROVIDE THE TOWN WITH KEYS TO ALL LOCKS.

EXECUTION

1. BYPASS PUMPING AND FLOW DIVERSION SHALL BE MONITORED AT ALL TIMES BY A COMPETENT PERSON FAMILIAR WITH THE PUMPING EQUIPMENT AND THE FLOW BYPASS SYSTEM INCLUDING PEDESTRIAN AND VEHICLE TRAFFIC CONTROL.
2. CONTRACTOR SHALL CONFORM TO ALL SAFETY PROVISIONS PERTAINING TO CONFINED SPACE ENTRY WHEN ENTERING ANY CONFINED SPACE INCLUDING BUT NOT LIMITED TO PIPES, MHS, AND TANKS.
3. ALL BYPASSING WILL REQUIRE COORDINATION WITH TOWN STAFF AT LEAST 48 HOURS IN ADVANCE. SYSTEM OUTAGES ARE NOT PERMITTED.
4. TOWN OF LOS GATOS DOES NOT ALLOW STORM DRAIN BLOCKAGE OR BYPASSING 36 HOURS BEFORE A FORECASTED RAIN EVENT AND 36 HOURS AFTER A RAIN EVENT.

MEASUREMENT AND PAYMENT

1. FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS, AND FOR DOING ALL THE WORK IN FLOW BYPASS SYSTEM, COMPLETE IN PLACE, INCLUDING, BUT NOT LIMITED TO, MOBILIZATION, BYPASS PLAN, FLOW CONTROL, DIVERSION OR BYPASS PUMPING, DEWATERING, PUMP SETUP, PLUGGING, FUEL/ELECTRICITY, MAINTENANCE, MONITORING WATER LEVELS, TESTING OF STORM BYPASS LINE, AND ALL OTHER WORK NECESSARY TO INSTALL THE STORM BYPASS, SHALL BE CONSIDERED INCIDENTAL TO "REMOVE & REPLACE EXISTING 36" CMP WITH NEW 36" HDPE CORRUGATED DUAL-WALL (TYPE S) BY OPEN TRENCH METHOD" (BID ITEM 5).

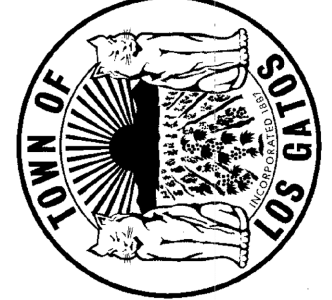


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DESIGN: T-JH	DRAWN: DCC
CHECK: REB	ENGR: T-JH
PROJECT NO.: 25-816-0420	



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ANNUAL STORM DRAIN IMPROVEMENTS PROJECT

VASONA STORM DRAIN REPLACEMENT(PHASE 1)

UNIVERSITY AVE APPR. 180' NORTH OF VASONA OAKS DR

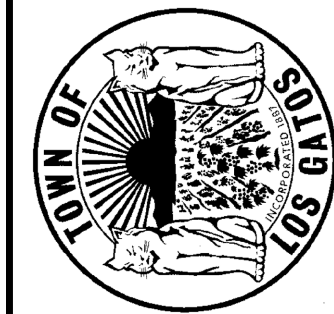
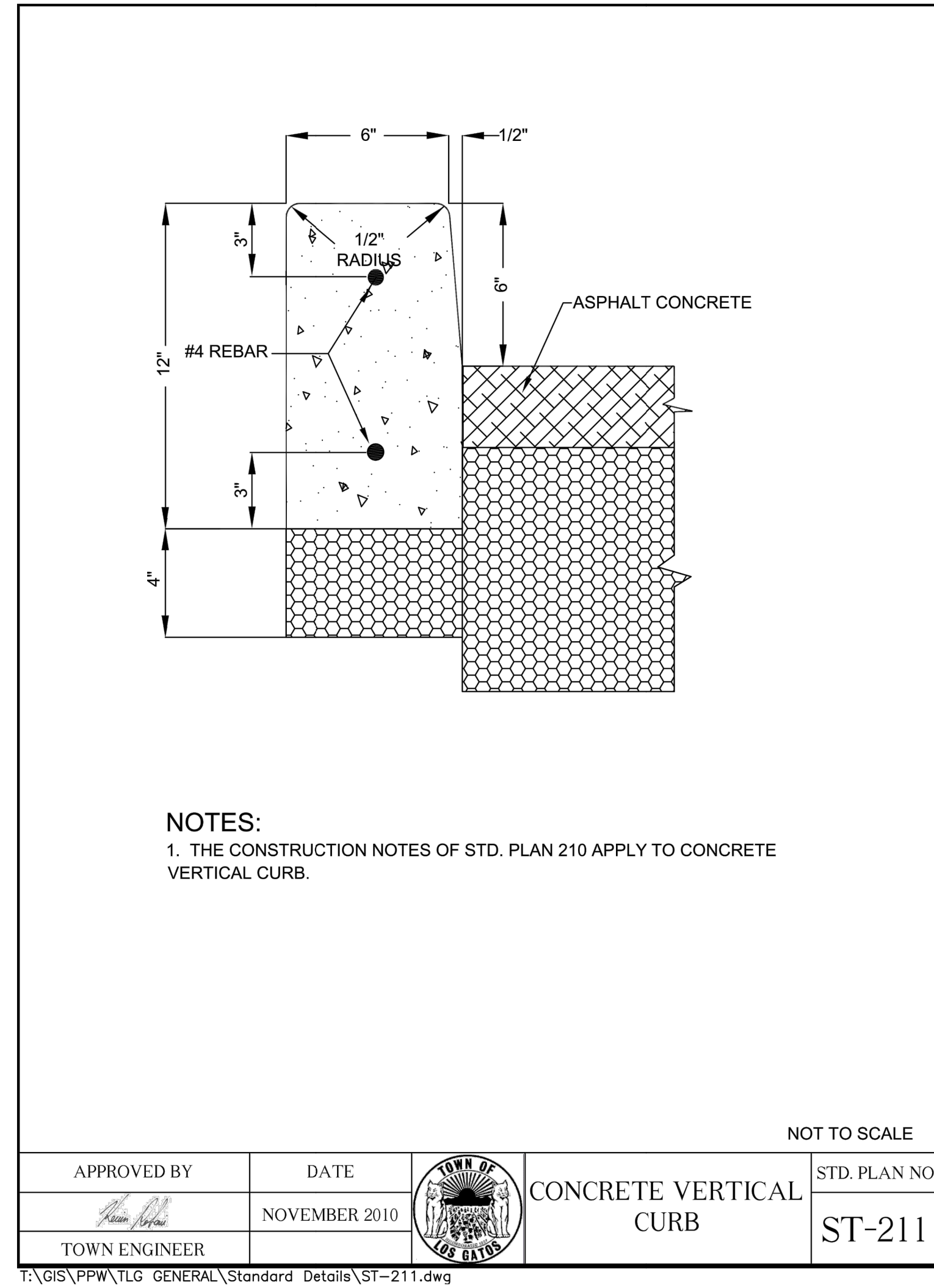
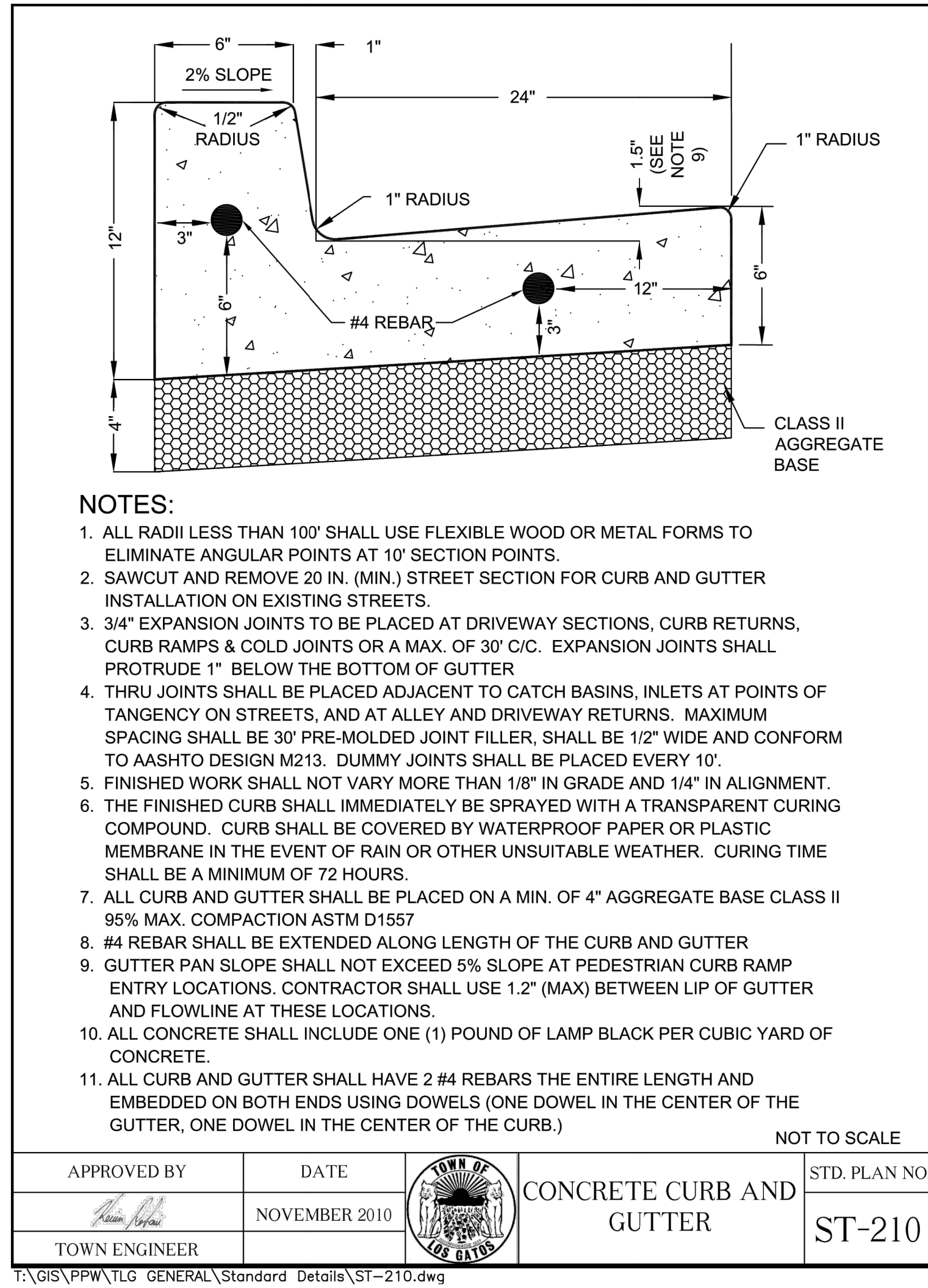
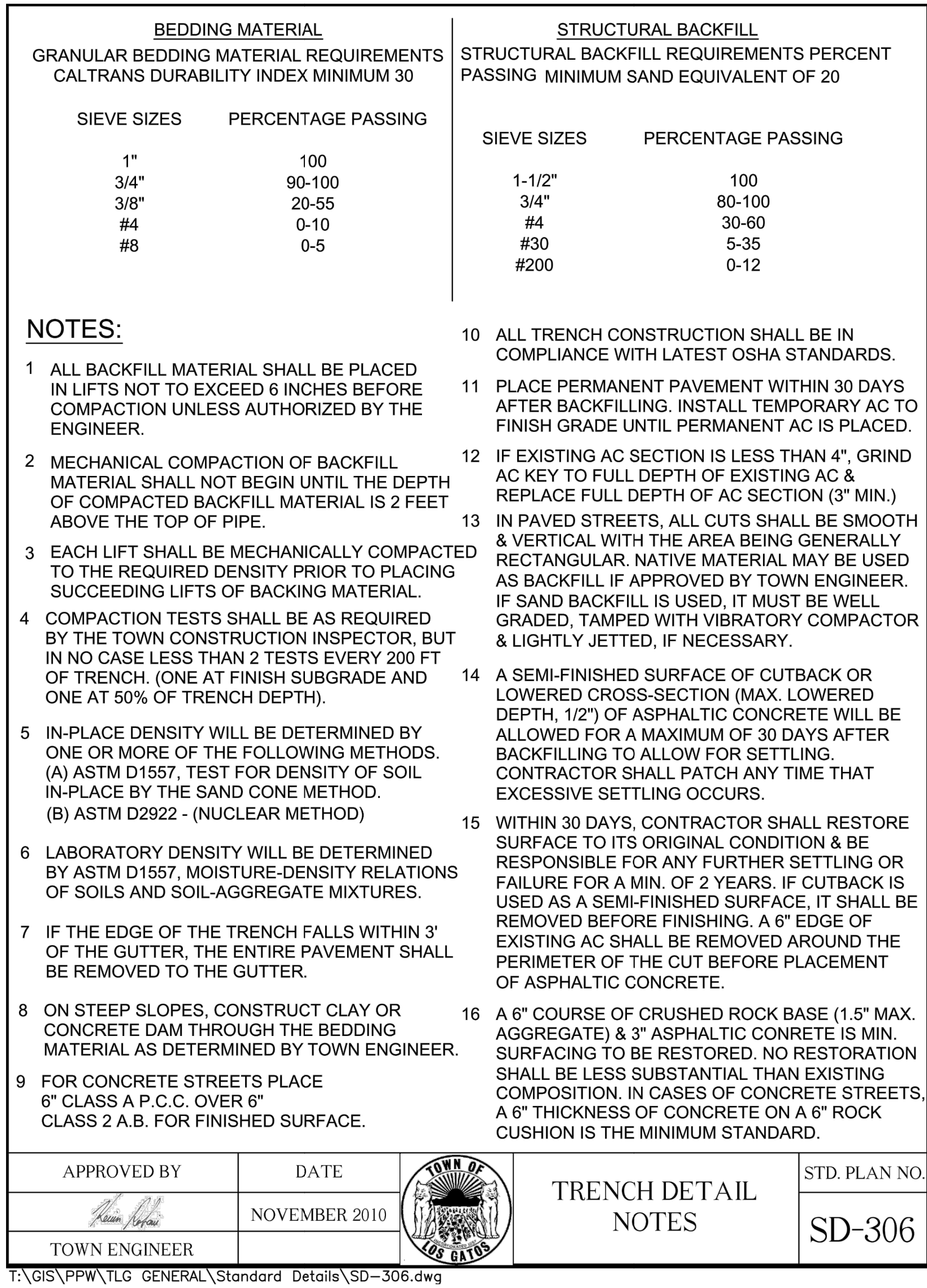
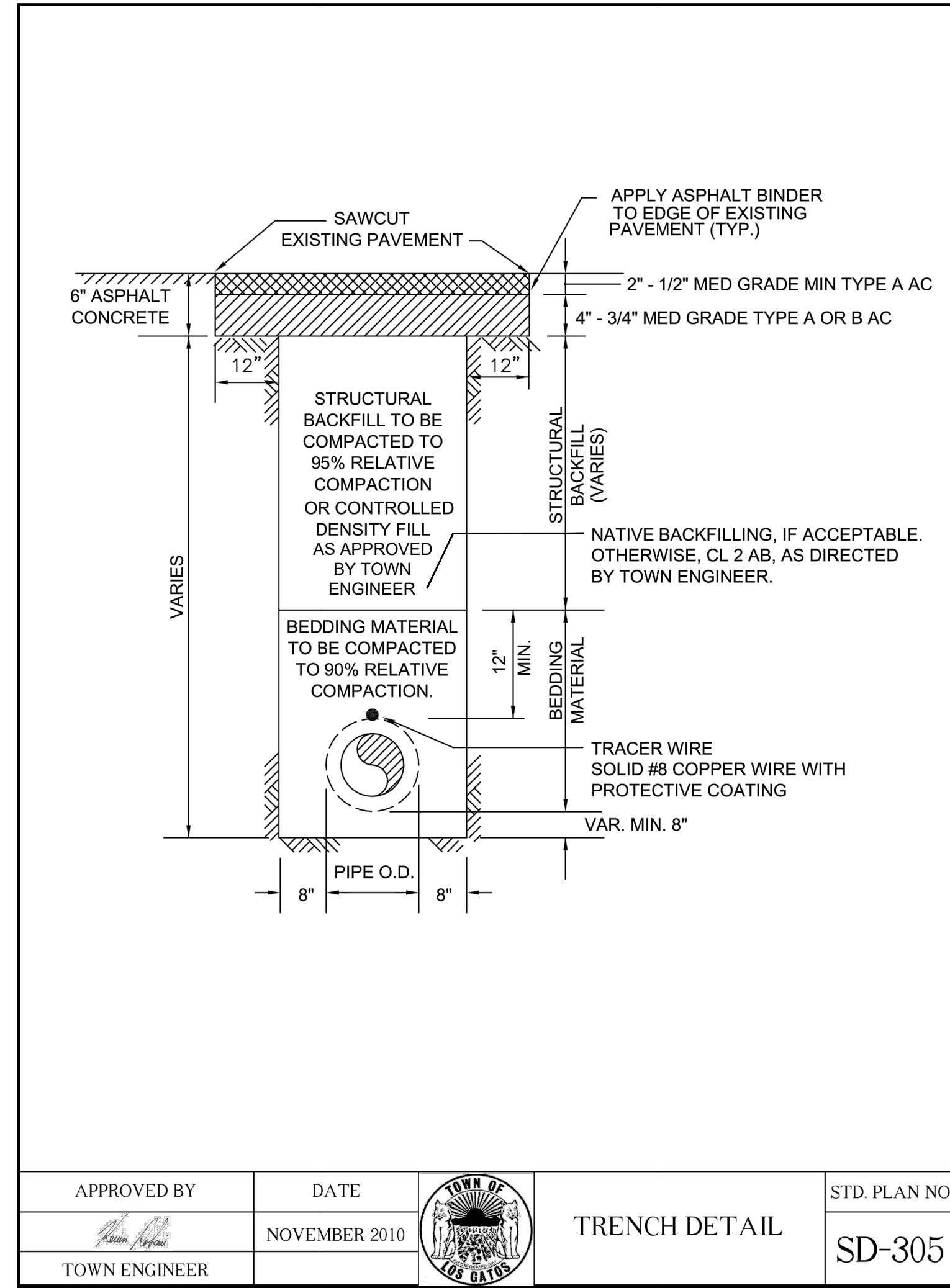
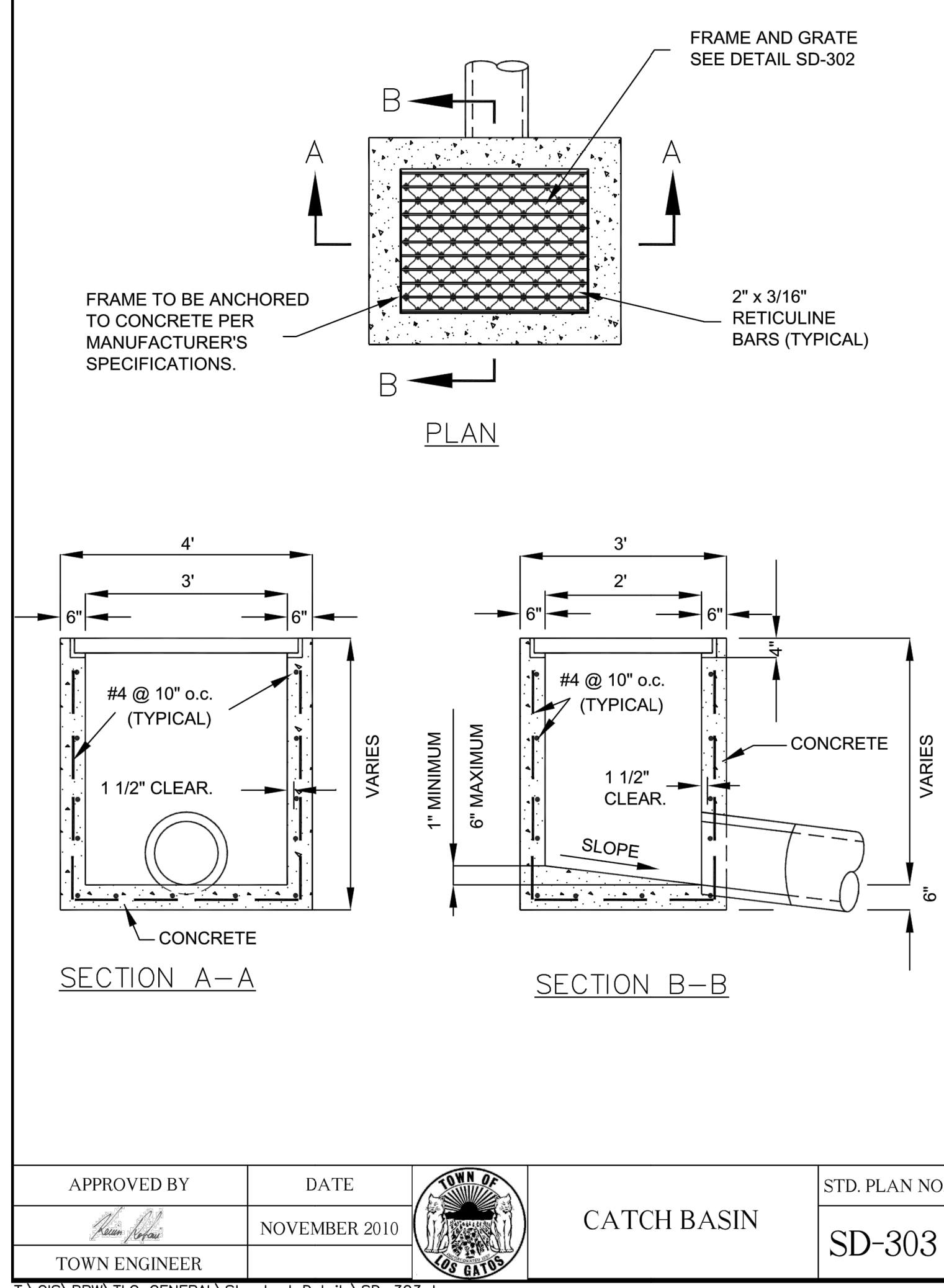
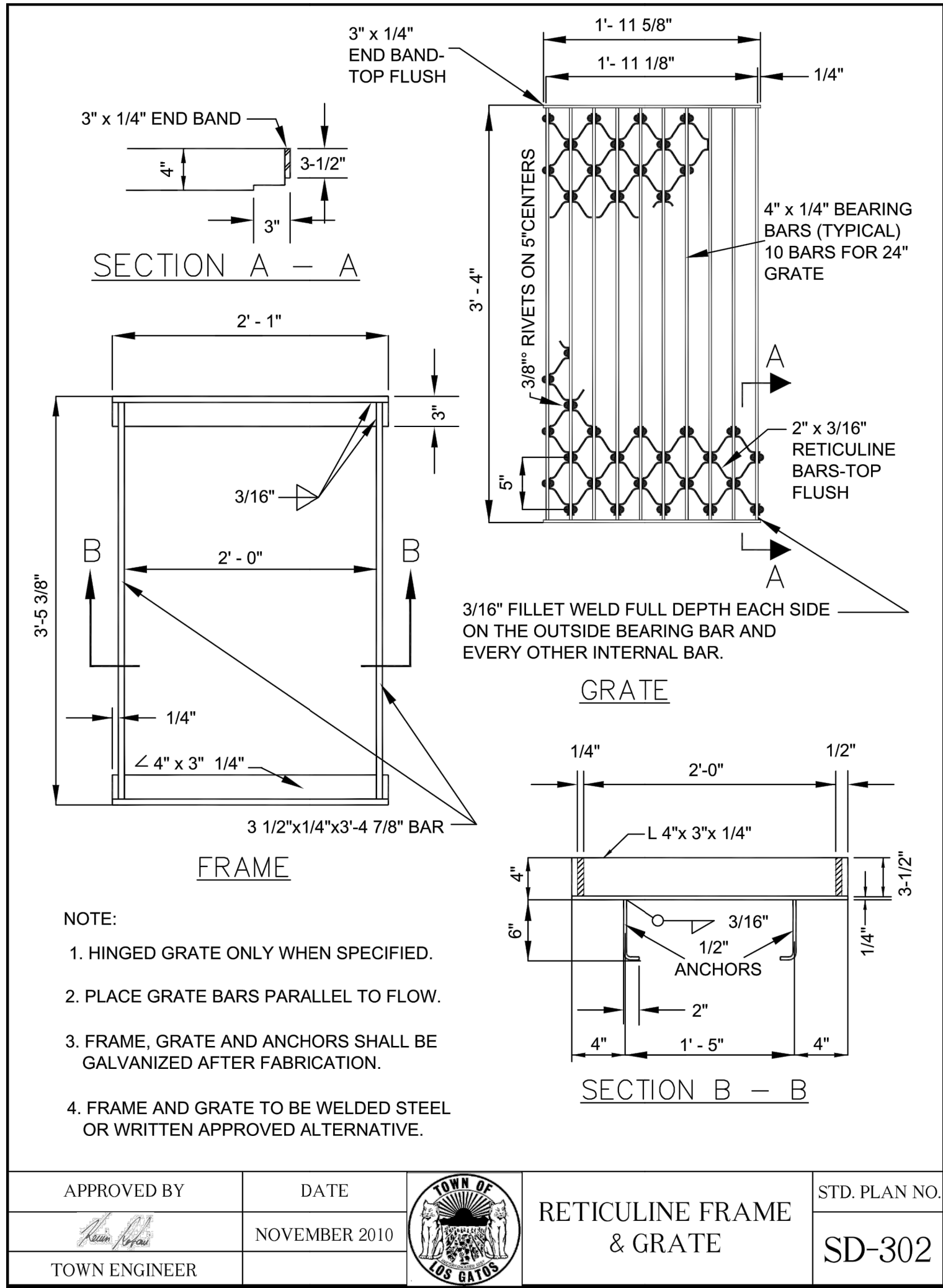
GENERAL NOTES & SPECIFICATIONS

PROJECT NO. 25-816-0420

TOWN OF LOS GATOS, PARKS AND PUBLIC WORKS DEPARTMENT

41 MILES AVENUE, LOS GATOS, CA 95030

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ANNUAL STORM DRAIN IMPROVEMENTS PROJECT
VASONA STORM DRAIN REPLACEMENT(PHASE 1)
UNIVERSITY AVE APPR. 100' NORTH OF VASONA OAKS DR

DETAILS

PROJECT NO. 25-816-0420
TOWN OF LOS GATOS, PARKS AND PUBLIC WORKS DEPARTMENT
41 MILES AVENUE, LOS GATOS, CA 95030



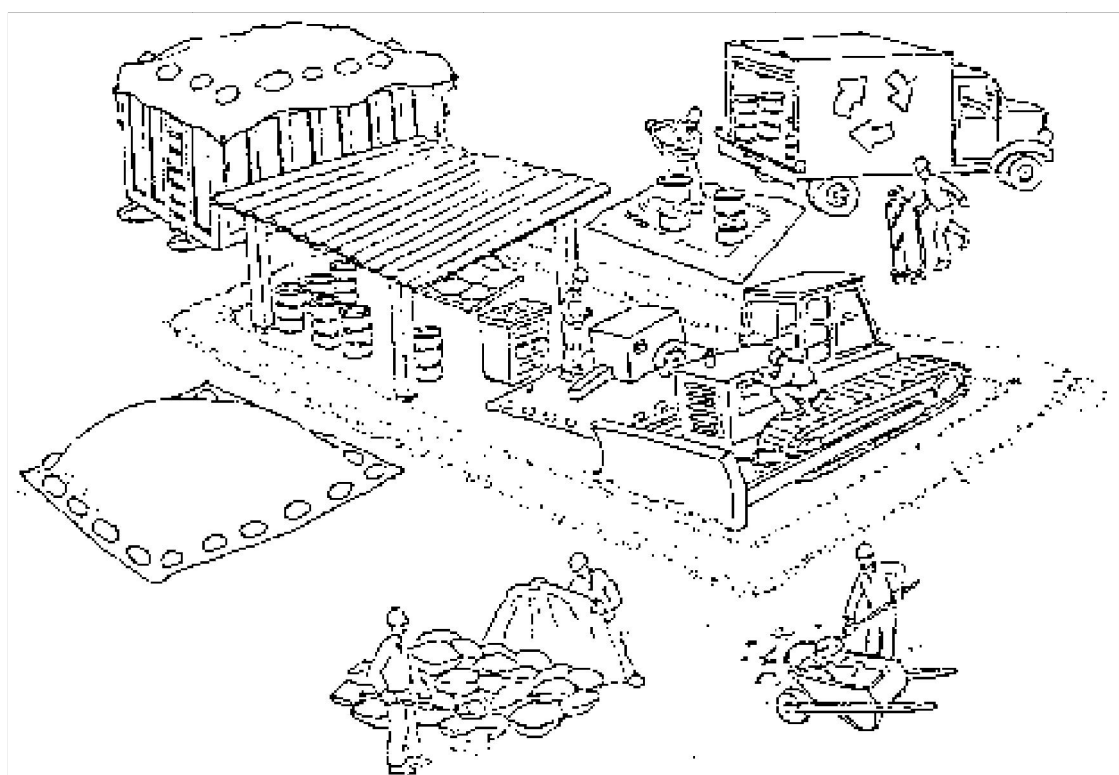
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SHEET 07 OF 08

Pollution Prevention — It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will ensure your compliance with local ordinance requirements.



Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep streets and other paved areas daily. Do not wash down streets or work areas with water!
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, state, and federal regulations.
- ✓ Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- ✓ Report any hazardous materials spills immediately! Dial 911 or your local emergency response number.

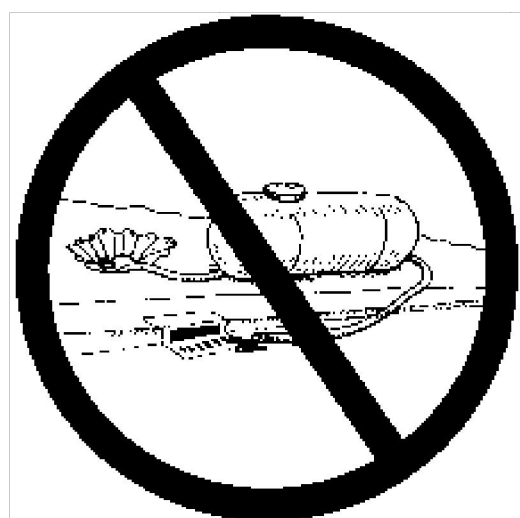
Vehicle and equipment maintenance & cleaning

- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- ✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- ✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinsewater to run into gutters, streets, storm drains, or creeks.
- ✓ Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



Dewatering operations

- ✓ Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- ✓ Be sure to call your city's storm drain inspector before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the city inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.



Saw cutting

- ✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, hay bales, sand bags, or fine gravel dams to keep slurry out of the storm drain system.
- ✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ✓ If saw cut slurry enters a catch basin, clean it up immediately.

Concrete, grout, and mortar storage & waste disposal

- ✓ Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.
- ✓ Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street, or storm drain.
- ✓ If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.



Paving/asphalt work

- ✓ Do not pave during wet weather or when rain is forecast.
- ✓ Always cover storm drain inlets and man-holes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Place drip pans or absorbent material under paving equipment when not in use.
- ✓ Protect gutters, ditches, and drainage courses with hay bales, sand bags, or earthen berms.
- ✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- ✓ Do not use water to wash down fresh asphalt concrete pavement.



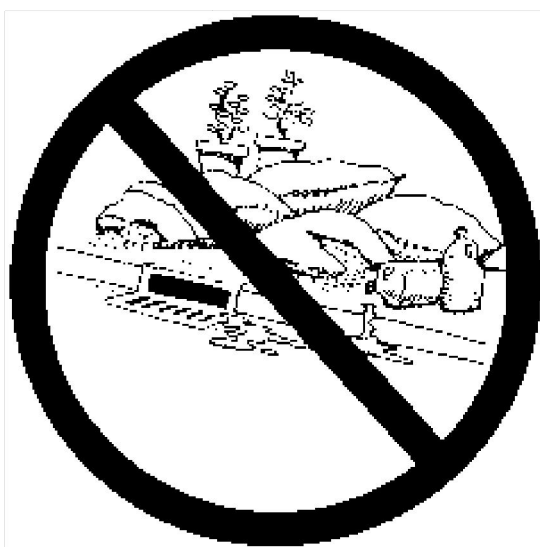
Painting

- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and spade it in.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

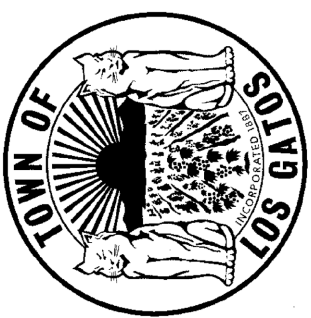


Earthwork & contaminated soils

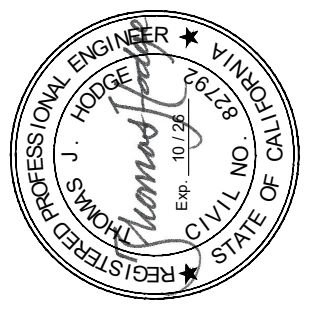
- ✓ Keep excavated soil on the site where it is least likely to collect in the street. Transfer to dump trucks should take place on the site, not in the street.
- ✓ Use hay bales, silt fences, or other control measures to minimize the flow of silt off the site.
- ✓ Avoid scheduling earth moving activities during the rainy season if possible. If grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- ✓ Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- ✓ If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place hay bales down-slope until soil is secure.
- ✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call your local fire department for help in determining what testing should be done.
- ✓ Manage disposal of contaminated soil according to Fire Department instructions.



Storm drain polluters may be liable for fines of up to \$10,000 per day!



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UNIVERSITY AVE APPR. 100' NORTH OF VASONA OAKS DR
POLLUTION PREVENTION NOTES
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