Midway Heights County Water District

P.O. Box 596, Meadow Vista, CA 95722

HILLSDALE ROAD IRRIGATION PIPELINE

PROJECT,

LOCATION

EUREKA

SAN FRANCISCO

FRESNO

BAKERSFIELD

LOS ANGELES

5

VICINITY MAP

Hillsdale Road, Meadow Vista, CA SEPTEMBER, 2022

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APPROVED:

Jason Tiffany
MHCWD General Manager

SUBMITTED:

Dean D. Marsh;
Consulting Engineer

09/28/22

No. C 58100

Exp. 6-30-24

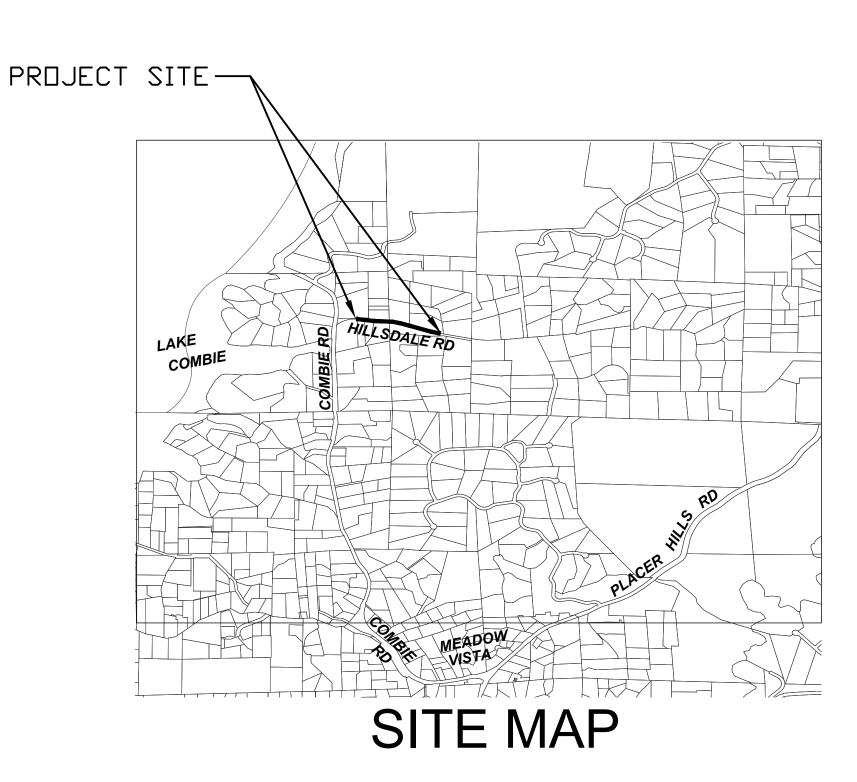
Consulting Engineer

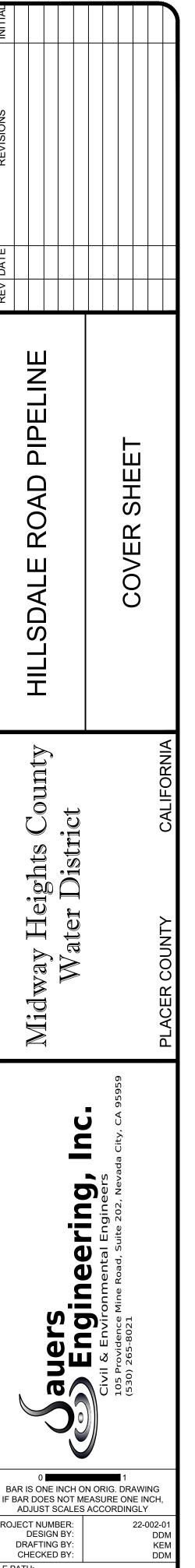
auers Engineering, Inc.

105 Providence Mine Road, Suite 202, Nevada City, CA 95959 tel (530) 265-8021 www.sauerseng.com

PROJECT SCOPE:

- 1. INSTALL NEW 8-INCH C900 PVC PIPE FOR IRRIGATION WATER SERVICE ALONG HILLSDALE ROAD STA. 10+00 28+70, ALONG WITH INLINE VALVES, FIRE HYDRANTS, AND METER SERVICES.
- 2. INSTALL NEW 6-INCH C900 PVC PIPE FOR IRRIGATION WATER SERVICE STA. 30+00 31+90.
- 3. INSTALL NEW 6-INCH HDPE PIPE FOR IRRIGATION WATER SERVICE FROM STA. 40+00 41+87, WITH APPROXIMATELY 125 FEET INSTALLED BY PIPE BURSTING (E) 6-INCH AC PIPE.
- 4. ABANDON PORTIONS OF (E) IRRIGATION PIPELINE AS SHOWN ON THE PLAN & PROFILES.





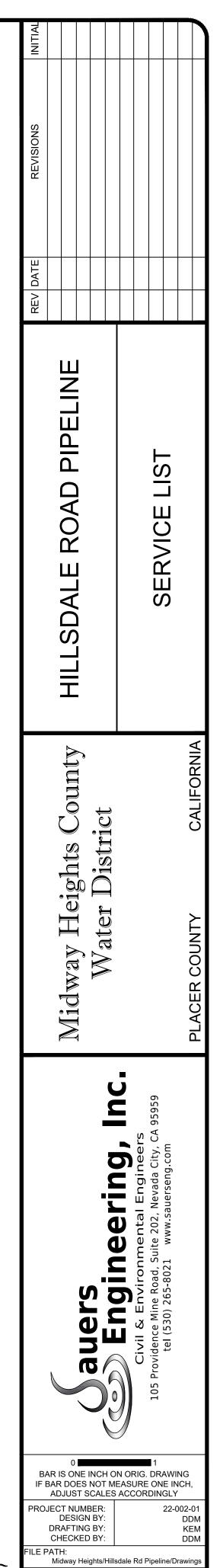
G1

HORIZONTAL

METER SERVICES & CORRESPONDING ADDRESSES & STATION #:

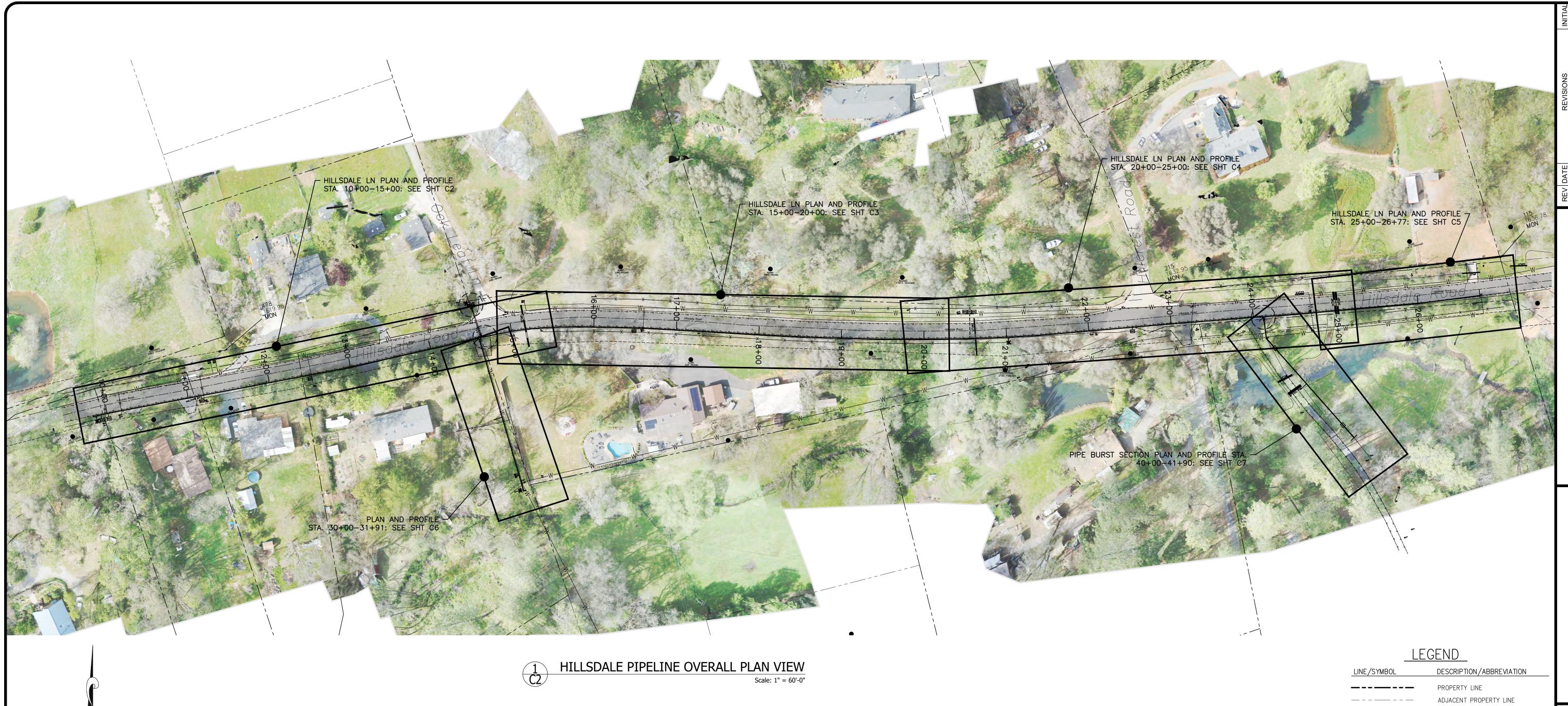
— TO BE RE-INSTALLED IN NEW METER SERVICE BOX. FOR THOSE WITHOUT METER, CONTRACTOR IS TO INSTALL METER IDLER.

Address	Stationing #	Service Type	Detail #	(E) Irrigation Meter #	Notes
2580 Combie	09+93	Single	5/D1	None	New Service for Future
2515 Hillsdale	10+01	Single	5/D1	1544957492	
2499 Hillsdale	11+16	Single	5/D1	1832279554	
2479 Hillsdale	12+49	Single	5/D1	183142738	
2280 Hillsdale				1834143675	
2422 Hillsdale		Multiple	1/D3	1834131680	
2444 Hillsdale				1543558110	
2460 Hillsdale	14+62			1834107492	
2620 Hillsdale	14+02			1540570498	
2662 Combie				1852158854	
2648 Combie				1834132560	
Future				N/A	Add 1 future Service + Blowoff
2291 Hillsdale	16+49	Single	5/D1	1832103541	Do Not Connect to Customer
17615 Hillcrest			/15/0	1545677622	
17650 Hillcrest	20+56	Multiple	5/D1	1545014798	
Future (17625 Hillcrest)				N/A	
Future (2195 Hillsdale)	22+53	Single	5/D1	N/A	
17610 Hillcrest				1544996692	
17620 Hillcrest				1834102515	Contractor to Connect Nous
17630 Hillcrest	24+69			1834133086	Contractor to Connect New Main to (E) 2" Service Lat
Future				N/A	Main to (L) Z Service Lat
Future				N/A	





HORIZONTAL



TOPOGRAPHY NOTES:

- 1. TOPOGRAPHY PREPARED BY GIULIANI AND KULL-AUBURN, INC., FIELD SURVEY CONDUCTED AUGUST 17, 2021.
- 2. PROPERTY LINES SHOWN ON THESE DRAWINGS ARE COMPILED FROM RECORD DATA. PURSUANT TO THE CLIENTS DIRECTION, A BOUNDARY SURVEY WAS NOT PERFORMED AT THIS TIME WHICH MAY HAVE DETERMINED THE ACTUAL PROPERTY LINES. THE PROPERTY LINES SHOWN HEREON ARE THE BEST GRAPHICAL FIT BETWEEN RECORD INFORMATION AND THE TOPOGRAPHICAL FEATURES SURVEYED AND ARE FOR REFERENCE ONLY, AND SHOULD NOT BE RELIED UPON OR USED FOR ANY OTHER
- 3. SURVEY DATUM: HORIZONTAL DATUM IS CALIFORNIA STATE PLANE COORDINATES. VERTICAL DATUM IS NAVD 88.
- 4. THE EXISTENCE, LOCATION AND ELEVATION OF ALL EXISTING UNDER AND ABOVE GROUND UTILITIES ARE SHOWN IN A GENERAL WAY AND MAY NOT BE A COMPLETE INVENTORY OF ALL EXISTING UTILITIES EFFECTED THIS SITE.
- 5. ALL TREE DRIPLINES SHOWN ARE APPROXIMATE.

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	EASEMENT (AS NOTED)
	CENTERLINE (CL)
	MAJOR ELEVATION CONTOUR
	MINOR ELEVATION CONTOUR
•	FOUND MONUMENT (AS NOTE
 \square	EDGE OF PAVEMENT
	EDGE OF CONCRETE PAVEMEN
——X———X——	FENCE LINE
	DRAIN PIPE (AS NOTED)
₩V	WATER VALVE
w WM	WATER METER
℃ FH	FIRE HYDRANT
Ø HP	UTILITY POLE

Ø UP UTILITY POLE GUY ANCHOR TREE DESCRIPTOR 10 Oak 12

DRIPLINE RADIUS (FEET)

TREE TYPE

TRUNK DIAMETER (INCHES)

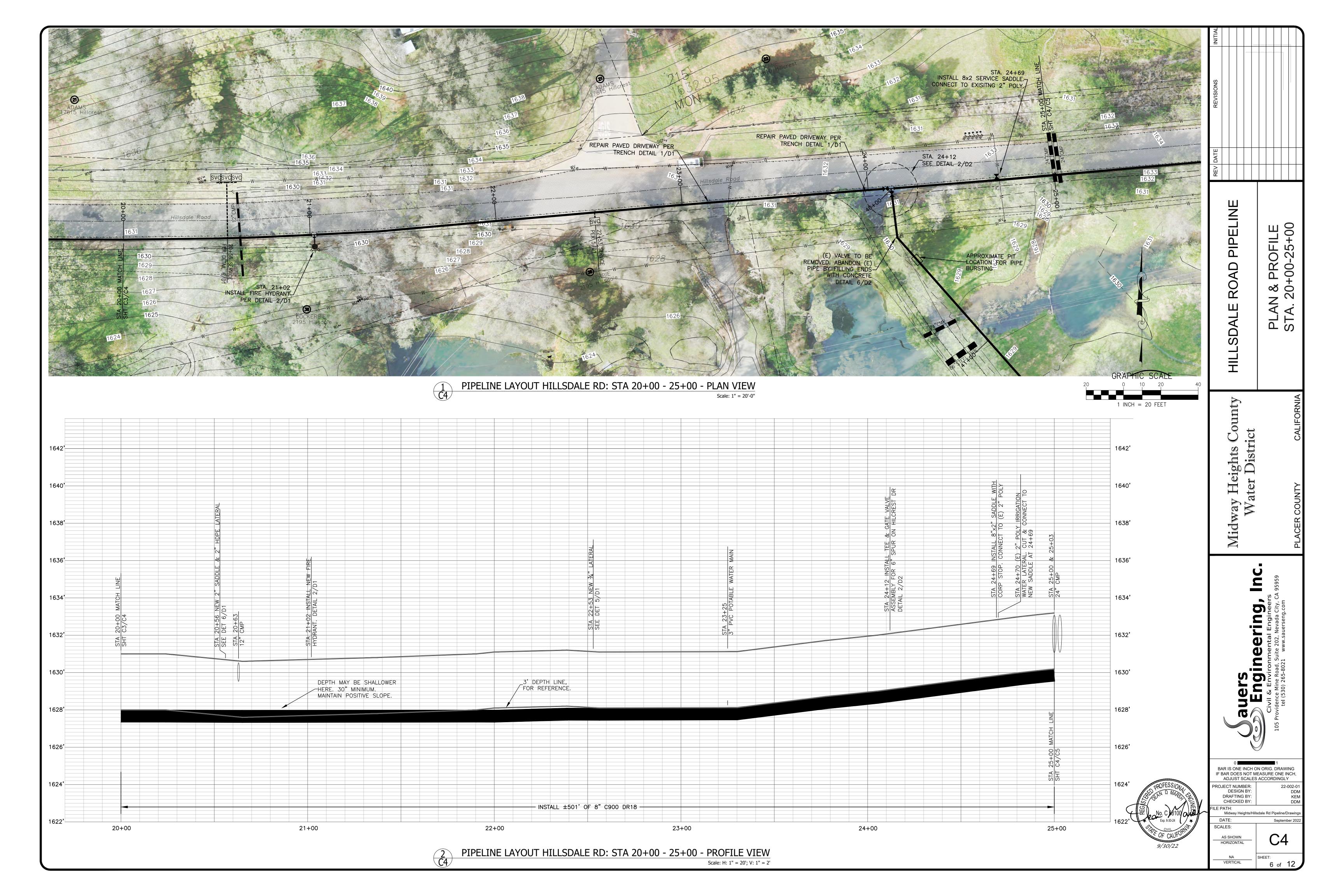
OK = Oak PN = Pine

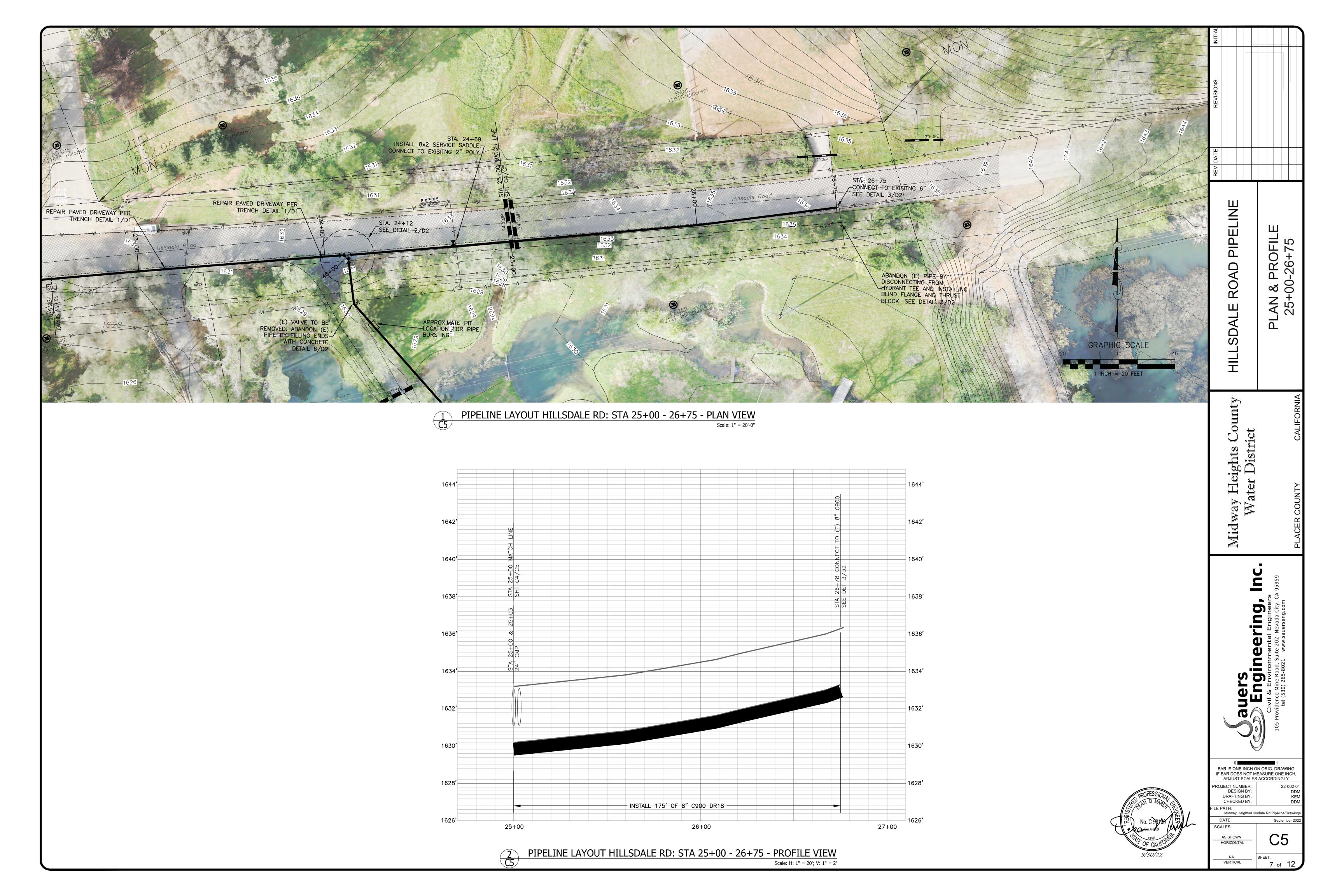


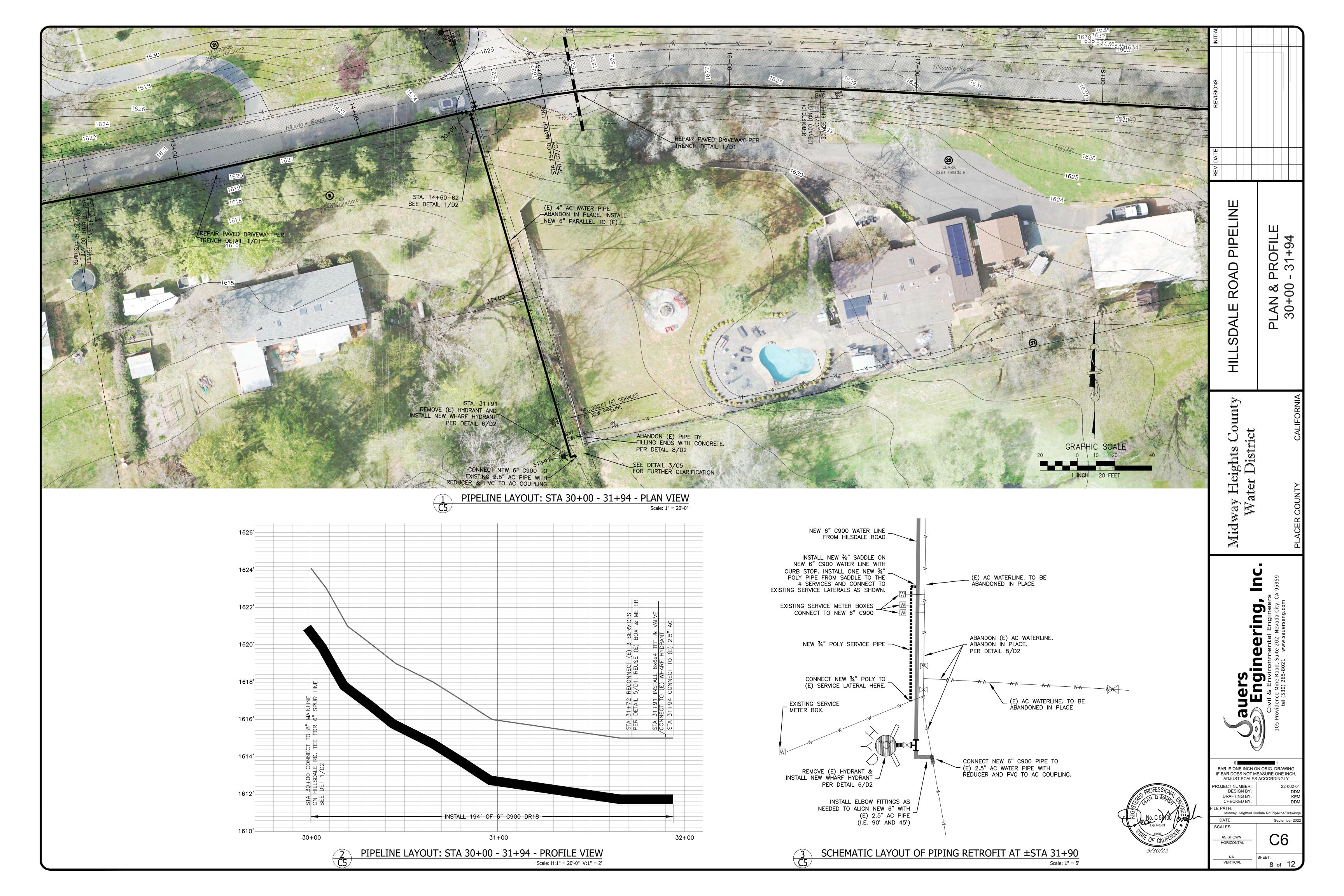
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AR IS ONE INCH ON ORIG. DRAWING BAR DOES NOT MEASURE ONE INCH, ADJUST SCALES ACCORDINGLY				
JECT NUMBER:	22-002-01			
DESIGN BY:	DDM			
DRAFTING BY: CHECKED BY:	KEM DDM			
	אוטט			
PATH: Midway Heights/Hillsdale Rd Pipeline/Drawing				
DATE:	September 202			
ALES:				
1" = 60' HORIZONTAL	C1			

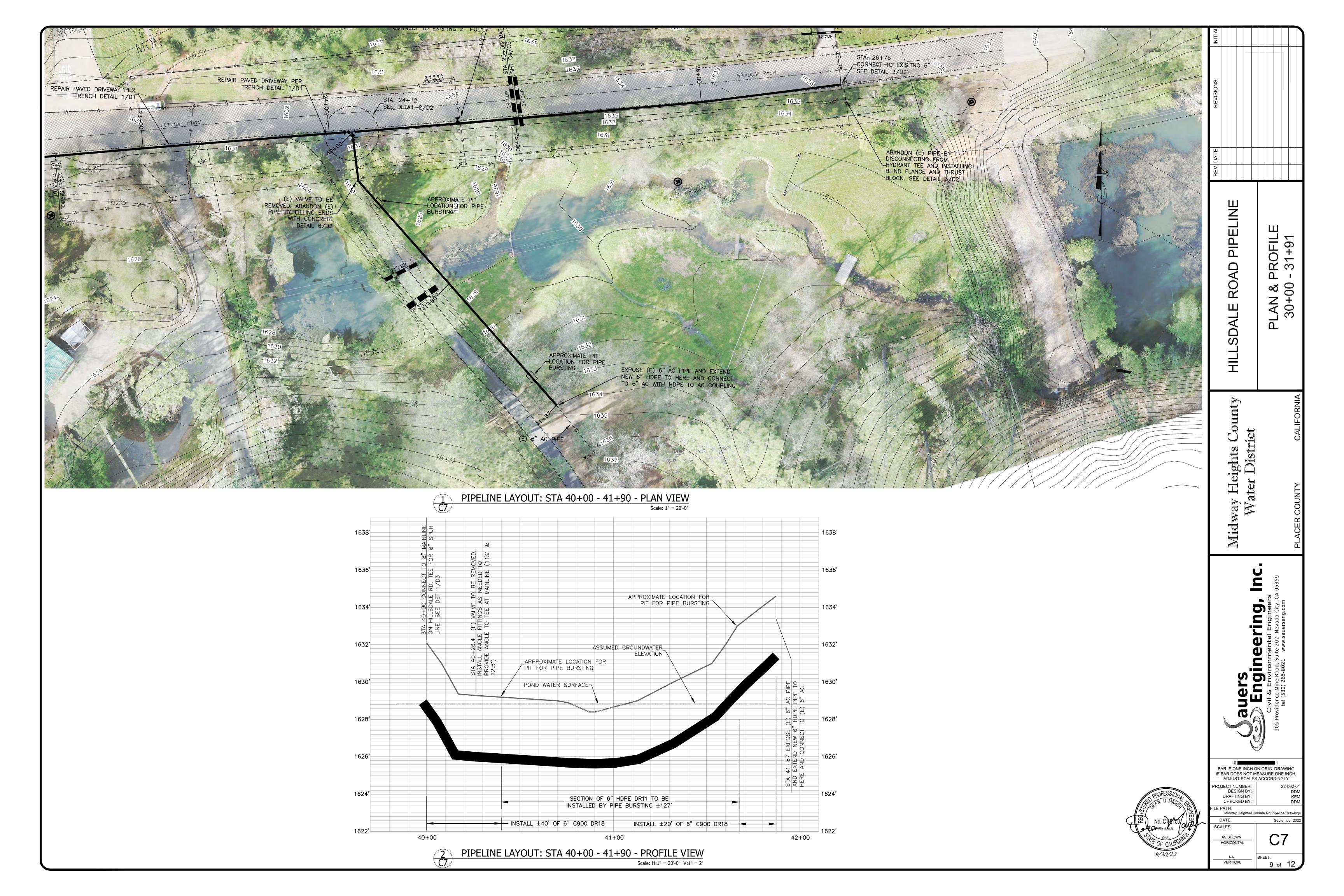


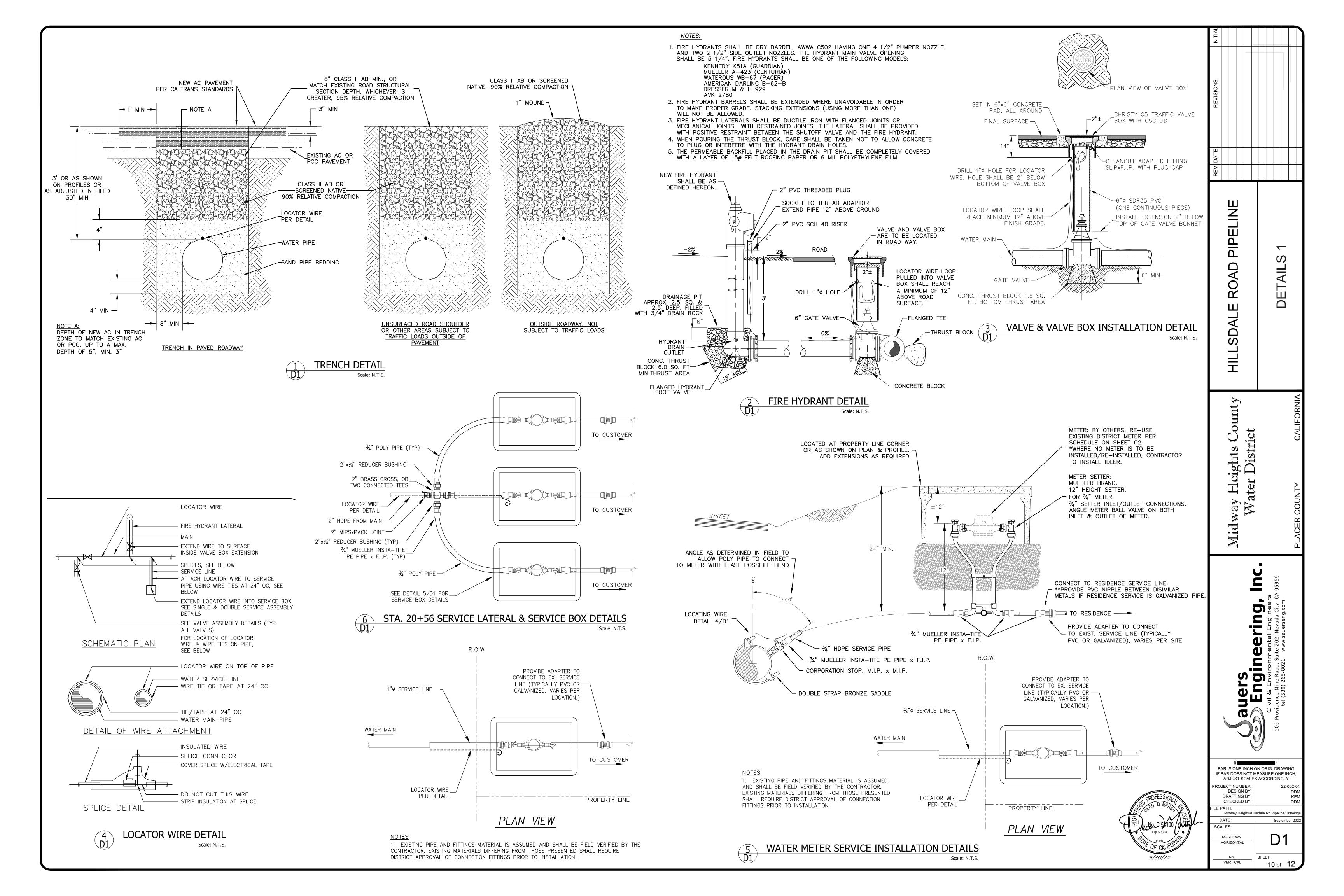


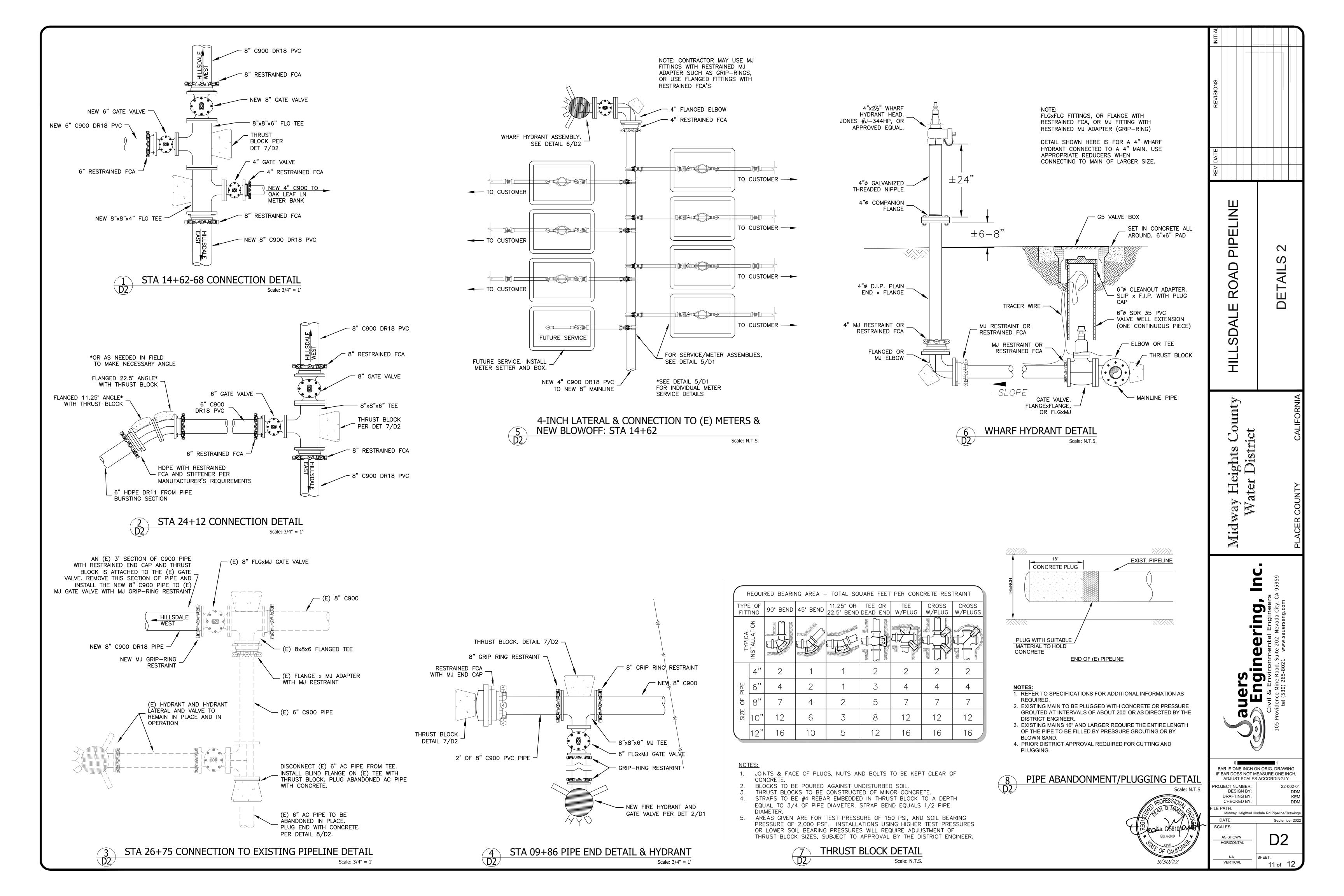


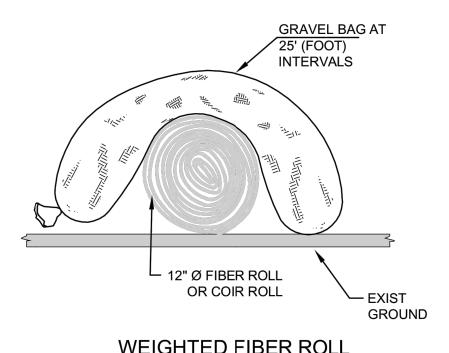




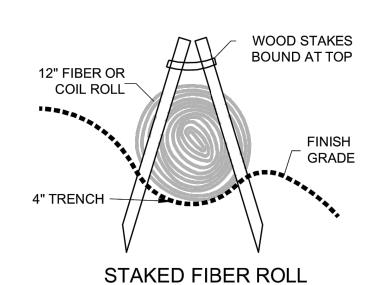






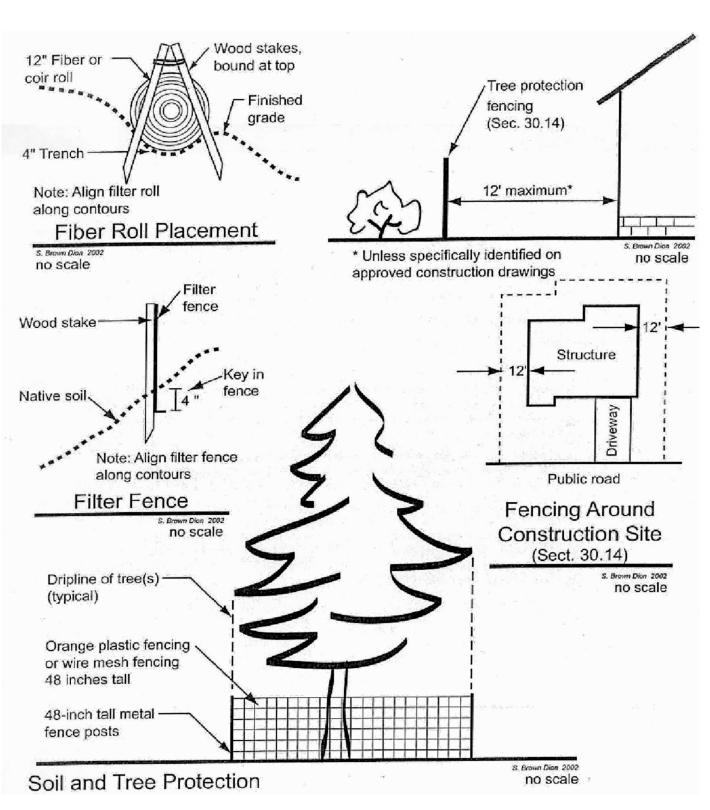


WEIGHTED FIBER ROLL

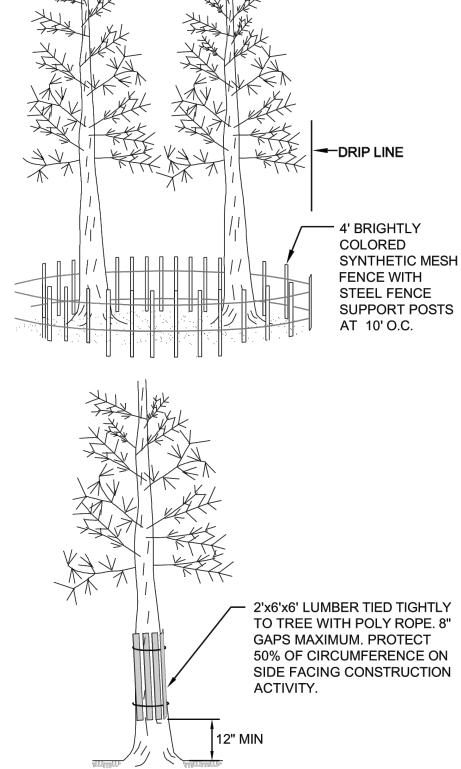


NOTE: PLACE FIBER ROLLS ALONG CONTOUR.

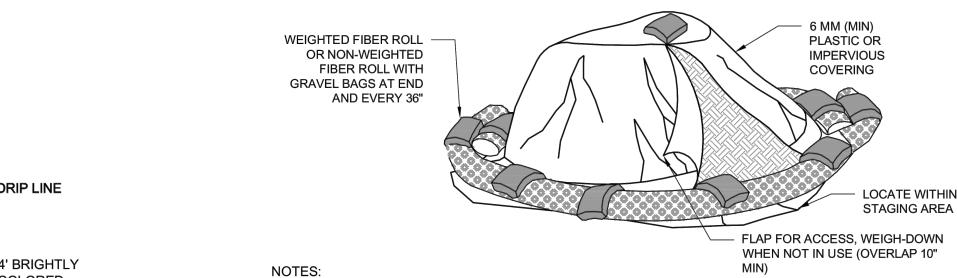




SOIL & TREE PROTECTION PLACEMENT DETAILS



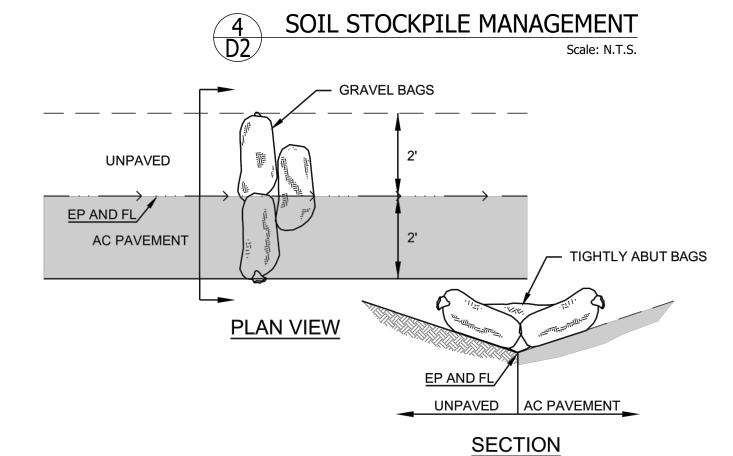
TREE PROTECTION DETAILS



1. LOCATE STOCK AND/OR SPOIL PILES AWAY FROM DRAINAGE COURSES, DRAIN INLETS OR CONCENTRATED FLOWS OF

- ALL STOCK AND/OR SPOIL PILE PERIMETERS SHALL BE PROTECTED WITH TEMPORARY LINEAR SEDIMENT BARRIERS. COVER ALL STOCK AND/OR SPOIL PILES WITH 6 MM PLASTIC, CANVAS TARP OR IMPERVIOUS COVER TO PREVENT WIND AND RAIN EROSION. EVENLY SPACE WEIGHTS (GRAVEL BAGS) ON COVER TO KEEP IN PLACE DURING WIND.
- CONDUCT REGULAR INSPECTIONS OF STOCK AND/OR SPOIL PILES DURING AND AFTER RAIN EVENTS VERY LARGE STOCK AND/OR SPOIL PILES MAY REQUIRE SILT FENCE IN LIEU OF FIBER ROLLS.
- REMOVE SPOIL PILES FROM CONSTRUCTION SITE AS SOON AS POSSIBLE.

STOCK/SPOIL PILES MUST BE STORED WITHIN THE APPROVED STAGING AREA.



DRAINAGE SWALE CHECK DAM DETAILS

EROSION CONTROL NOTES:

- 1. REMOVAL OF NATIVE VEGETATION SHALL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITH A 3-INCH LAYER OF MULCH OR COVERED WITH AN EROSION CONTROL
- 2. TEMPORARY EROSION CONTROL MEASURES AND DETAILS AS SHOWN ON THIS PLAN ARE SUGGESTED MINIMUM METHODS OF CONTROLLING EROSION DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS DICTATED BY FIELD CONDITIONS TO CONTROL EROSION AND
- 3. IF INCLEMENT WEATHER IS FORECAST, CONTRACTOR SHALL TAKE NECESSARY STEPS TO PROTECT AREAS DISTURBED BY CONSTRUCTION FROM EROSION AND/OR SUBSEQUENT DISCHARGE OF EARTHEN MATERIALS FROM THE SITE.
- 4. ALL TEMPORARY EROSION CONTROL FEATURES SHALL BE INSPECTED WEEKLY AND PRIOR TO INCLEMENT WEATHER AND CORECTIVE ACTION TAKEN AS NECESSARY TO ENSURE PROPER FUNCTION.
- 5. ALL AREAS DISTURBED BY CONSTRUCTION OF OFFSITE UTILITIES, INCLUDING ROADWAY SURFACES, SHOULDERS AND OTHER AREAS WILL BE RESTORED TO THE SATISFACTION OF THE DISTRICT.
- 6. ALL AREAS DISTURBED SHALL BE REVEGETATED OR OTHERWISE PROTECTED TO THE SATISFACTION OF THE ENGINEER. ONLY NATIVE BRUSH AND GRASS SPECIES SHALL BE USED FOR REVEGETATION. EXISTING AREAS OF DISTURBANCE WITHIN EACH PHASE SHALL BE RESTORED PURSUANT TO BEST MANAGEMENT PRACTICES (BMPs). THIS INCLUDES REVEGEATATION OF EXISTING DIRT ROADS WHICH
- WILL NO LONGER BE UTILIZED FOR VEHICULAR ACCESS. 7. THE AREAS OF SOIL AND VEGETATION DISTURBANCE SHALL BE LIMITED TO THAT REQUIRED FOR CONSTRUCTION PURPOSES. EXCEPT WHERE REQUIRED FOR ACCESS, THERE SHALL BE NO DISTURBANCE IN AREAS TO BE LEFT IN NATURAL STATE.
- 8. IN CONSTRUCTION AREAS TO BE REVEGETATED WHERE THE SUBSOIL LAYER HAS BEEN COMPACTED, RIPPING SHALL BE CONDUCTED DURING THE FINAL STAGES TO LOOSEN SOIL, ALLOWING FOR BETTER SUBSURFACE DRAINAGE AND ROOT PENETRATION. APPROPRIATE REVEGETATION PRACTICES SHALL BE EMPLOYED TO STABILIZE THESE AREAS IMMEDIATELY FOLLOWING CESSATION OF TRAVEL INTO THESE AREAS. TOPSOIL AND OTHER FILL MATERIAL TEMPORARILY STORED SHALL BE PROTECTED FROM EROSION BY COVERING WITH MULCH OR A COVER CROP, OR BY USE OF SILTATION BERMS OR OTHER MEANS APPROVED BY THE ENGINEER OR DISTRICT.
- 9. DISTURBANCE CREATED BY CONSTRUCTION SHALL BE STABILIZED WITHIN 24 HOURS OF CESSATION OF TRAVEL INTO SUCH AREAS. IF WORK HAS CEASED IN AN AREA OR IF AN AREA IS FOUND TO BE SUBJECT TO POTENTIAL EROSION PROBLEMS ASSOCIATED WITH VEGETATION LOSS AND SOIL COMPACTION, EFFORTS TO STABILIZE SUCH AREAS SHALL BE INITIATED THE NEXT WORK DAY FOLLOWING THE INSPECTION. STABILIZATION OF THESE AREAS SHALL BE CARRIED OUT UTILIZING BMPs.
- 10. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL PER SECTION 10 OF THE CALIFORNIA STANDARD SPECIFICATIONS. MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- A. CONDUCT MAJOR DUST-GENERATING ACTIVITIES WHEN WIND VELOCITIES ARE LOW.
- B. SPRINKLE WORK AREAS, CONSTRUCTION EQUIPMENT TRAVEL ROUTES, AND EQUIPMENT TO CONTROL DUST.
- C. PREVENT CONSTRUCTION VEHICLES FROM TRACKING MUD ONTO NEIGHBORING ROADS AND HIGHWAYS.
- D. RESTRICT ALL TRUCKS AND VEHICLES WITHIN CONSTRUCTION SITE TO A MAX SPEED OF 15 MPH.

- 11. ALL EXCAVATED MATERIAL SHALL BE PLACED UPHILL OF TRENCH LOCATIONS. ALL TEMPORARY STOCKPILES SHALL BE CONTAINED BY TEMPORARY EROSION CONTROL FENCES OR FIBER ROLL LOGS. AND COVERED WITH NON PERMEABLE MATERIAL AT THE END OF THE WORKING DAY AND/OR DURING PERIODS OF PRECIPITATION OR HIGH WINDS.
- 12. DROP INLETS, CULVERTS AND OTHER STORM WATER CONVEYANCE FACILITIES LOCATED DOWNSLOPE OF EXCAVATED MATERIAL SHALL BE PROTECTED BY TEMPORARY EROSION CONTROL FENCES OR FIBER ROLLS.
- 13. TEMPORARY EROSION CONTROL STRUCTURES MUST BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED OR SUFFICIENTLY REVEGETATED. TEMPORARY EROSION CONTROL STRUCTURES SHALL BE REMOVED ONCE THE SITE HAS
- BEEN STABILIZED OR REVEGETATED. 14. ALL TEMPORARY EROSION CONTROL AND VEGETATION PROTECTION FENCING SHALL BE MAINTAINED IN A FUNCTIONING CONDITION DURING CONSTRUCTION STAGING ACTIVITIES AND UNTIL THE SITE IS REVEGETATED, IF
- APPLICABLE. 15. ASPHALT CUTTINGS AND SOIL TRACKED ONTO PAVEMENT SHALL BE REMOVED THROUGH REGULAR SWEEPING AT THE END OF EACH BUSINESS DAY.



Mid U ering intal Enginee ne ers ing BAR IS ONE INCH ON ORIG. DRAWING IF BAR DOES NOT MEASURE ONE INCH, ADJUST SCALES ACCORDINGLY PROJECT NUMBER: DESIGN BY DRAFTING BY: CHECKED BY: DDM FILE PATH: Midway Heights/Hillsdale Rd Pipeline/Drawin September 20 SCALES: AS SHOWN

HORIZONTAL

VERTICAL

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