

APPROVED AS TO IMPACT ON CITY FACILITIES AND CONFORMANCE WITH APPLICABLE CITY STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

DATE SIGNED

LICENSE Exp. DATE

06/30/2026

REGISTRATION No.

33479

CONSULTANT PROJECT MANAGER

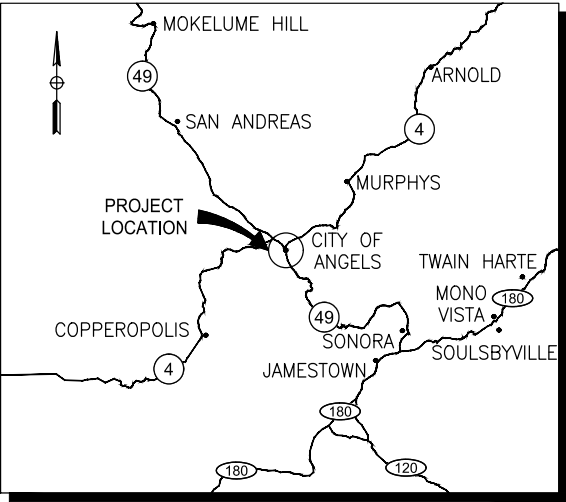
D. RICHARD

CITY ENGINEER APPROVAL

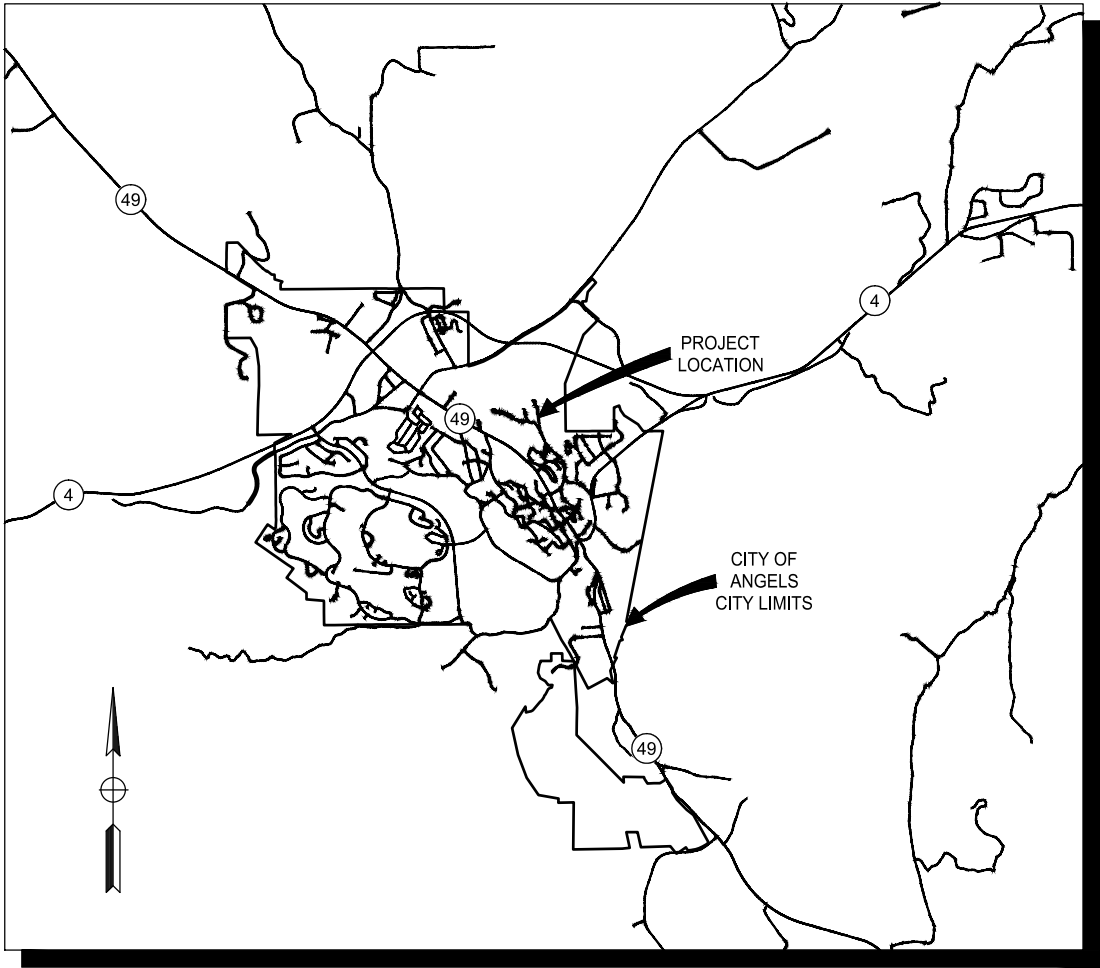
CITY OF ANGELS  
CALAVERAS COUNTY, CALIFORNIA  
**PURDY ROAD WATER AND SEWER IMPROVEMENTS**

TO BE SUPPLEMENTED BY THE CITY OF ANGELS 2010 IMPROVEMENT STANDARDS

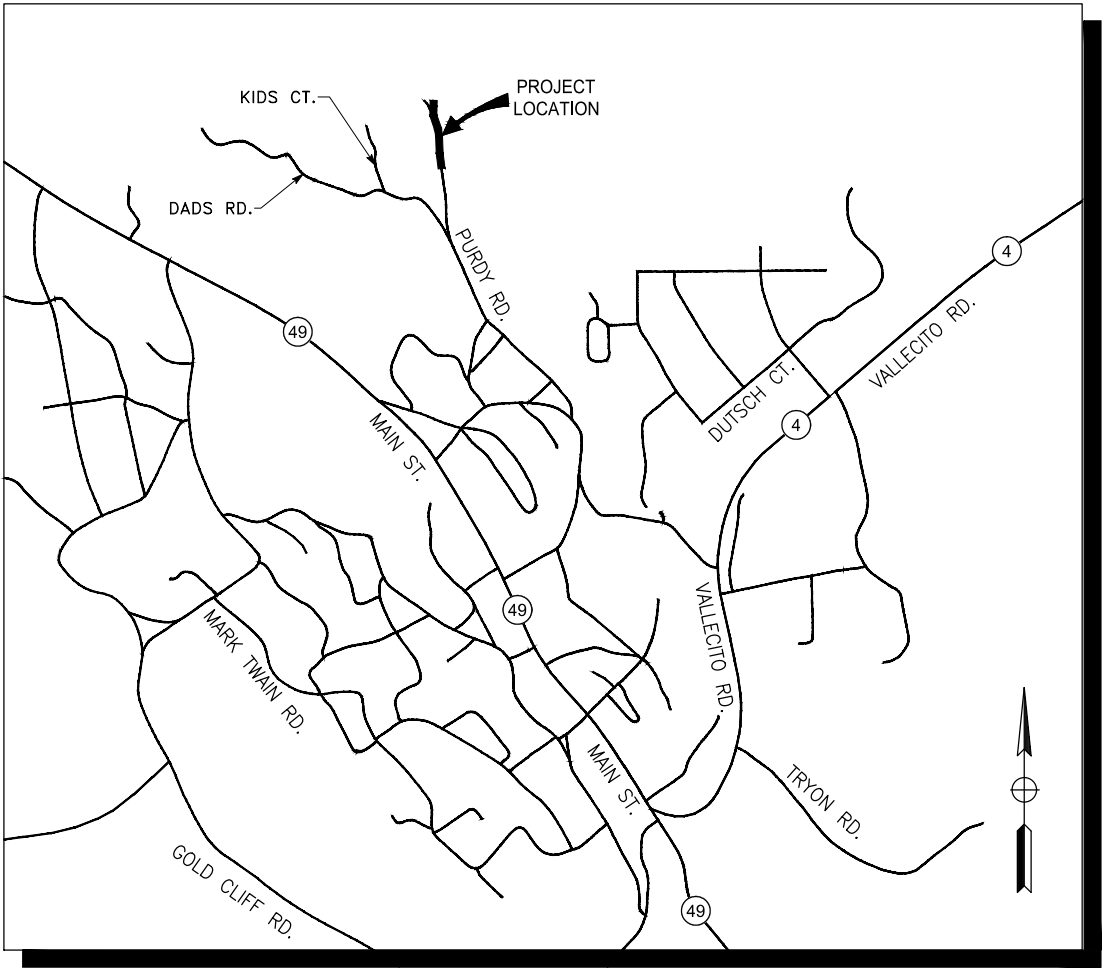
SHEET No.	TOTAL SHEETS
1	21



VICINITY MAP  
NO SCALE



CITY OF ANGELS MAP  
NOT TO SCALE



SITE MAP  
NOT TO SCALE

JUNE 2025

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS"

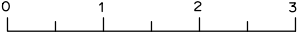
REVISED BID SET



GO.10

TITLE SHEET	
DEWBERRY 903 W CENTER STREET MANTECA, CA 95337	
CITY OF ANGELS DEPARTMENT OF PUBLIC WORKS 2990 CENTENNIAL ROAD ANGELS CAMP, CA 95222	

RELATIVE BORDER SCALE  
IS IN INCHES



USERNAME = ktran  
DGN FILE = PRWS-G-GO.10.dwg

UNIT 0000 PROJECT NUMBER & PHASE 00000000

LAST REVISION DATE PLOTTED = Jun 20, 2025  
06-12-25 TIME PLOTTED = 7:44 am

CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS

PURDY ROAD WATER AND SEWER IMPROVEMENTS

CONSULTANT PROJECT MANAGER

D. RICHARD

CALCULATED–  
DESIGNED BY

CHECKED BY

C. AGUIAR

K. TRAN

REVISED BY

DATE REVISED

C. AGUIAR

06/12/25

INDEX OF PLANS

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GENERAL ABBREVIATIONS

AB	AGGREGATE BASE	FT	FOOT	PC	POINT OF CURVATURE
AC	ASBESTOS CEMENT	GPS	GLOBAL POSITIONING SYSTEM	PE	PLAIN END
AGG	AGGREGATE	GSP	GALVANIZED STEEL PIPE	PI	POINT OF INTERSECTION
CIPP	CURED IN PLACE PIPE	GV	GATE VALVE	P/L	PROPERTY LINE
℄	CENTERLINE	HGT	HEIGHT	PP	POWER POLE
CONC	CONCRETE	HORIZ	HORIZONTAL	PT	POINT OF TANGENCY
COORD	COORDINATE	ID	INSIDE DIAMETER	PVC	POLYVINYL CHLORIDE
CU FT	CUBIC FEET	IN	INCH	RC	RELATIVE COMPACTION
CU IN	CUBIC INCH	INV, I.E.	INVERT ELEVATION	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	LB/CU FT	POUNDS PER CUBIC FOOT	REF	REFER OR REFERENCE
C–C	CENTER TO CENTER	LF	LINEAR FEET	REINF	REINFORCE(D)
DET	DETAIL	MAX	MAXIMUM	RMJ	RESTRAINED MECHANICAL JOINT
DIA, Ø	DIAMETER	MECH	MECHANICAL	R.O.W.	RIGHT–OF–WAY
DIP	DUCTILE IRON PIPE	MFR	MANUFACTURER	SCHED	SCHEDULE
DRWG	DRAWING	MH	MANHOLE	SHT	SHEET
EA	EACH	MIN	MINIMUM	SLP	SLOPE
EL, ELEV	ELEVATION	MISC	MISCELLANEOUS	SQ	SQUARE
ELL	ELBOW	MJ	MECHANICAL JOINT	SQ FT	SQUARE FOOT
ELEC	ELECTRIC	NO.	NUMBER	SQ IN	SQUARE INCH
ENGR	ENGINEER	NTS	NOT TO SCALE	SST	STAINLESS STEEL
EX, E	EXISTING	NIC	NOT IN CONTRACT	STL	STEEL
FDC	FIRE DEPARTMENT CONNECTION	OC	ON CENTER	TBM	TEMPORARY BENCH MARK
FG	FINISHED GRADE	OD	OUTSIDE DIAMETER	TCE	TEMPORARY CONSTRUCTION EASEMENT
FIG	FIGURE	OG	ORIGINAL GRADE	TYP	TYPICAL
FL	FLANGED	OHE	OVERHEAD ELECTRICAL	UE	UNDERGROUND ELECTRIC
FLR	FLOOR	P	PROPOSED	UON	UNLESS OTHERWISE NOTED

GENERAL SYMBOLS

▲	AIR RELEASE VALVE	⊙	SEWER MANHOLE
●	BLOW OFF	—	SIGN
•	BOLLARD	■	WATER METER
⦿	FIRE HYDRANT	●	WATER VALVE
⋈	GUY ANCHOR		
⊖	JOINT POLE		
⊕	POWER POLE		

PIPING SYSTEM DESIGNATIONS

BP	BYPASS
DR	DRAIN
ELEC, E	ELECTRICAL
SD	STORM DRAIN
SS	SANITARY SEWER
SSFM	SANITARY SEWER FORCE MAIN
WTR, W	POTABLE WATER

DRAWING LEGEND

G	GENERAL
C	CIVIL
CD	CIVIL DETAIL

SECTION/DETAIL SYMBOLS

SECTION

SCALE: 1/2"=1'–0"

DETAIL

SCALE: 1/2"=1'–0"

SECTION LETTER

SHEET WHERE SECTION IS REFERENCED

DETAIL NUMBER

SHEET WHERE DETAIL IS REFERENCED

SECTION LETTER

SHEET WHERE SECTION IS DRAWN

PIPING DESIGNATIONS

PROPOSED PIPE

EXISTING PIPE

NOMINAL DIAMETER

SERVICE

10" W

10" SS

36" W

36" SS

12" BD

12" BD (D)

ADDITIONAL DESCRIPTION (IF REQUIRED)

FLOW STREAM IDENTIFICATION LEGEND

NOMINAL PIPE SIZE

NOTE:

FLOW STREAM IDENTIFICATION LEGEND SHALL BE USED FOR PIPING SCHEDULE SELECTION. ADDITIONAL DESCRIPTION IS USED ONLY TO DESCRIBE THE PROCESS FUNCTION OF THE PIPE. ADDITIONAL DESCRIPTIONS ARE FROM THE STANDARD ABBREVIATIONS DRAWING.

MATERIAL DESIGNATIONS

	AGGREGATE BASE (A.B.)		CONCRETE MASONRY WALL		PLASTIC, RUBBER OR NEOPRENE
	AGGREGATE BASE WALK		EARTH		SAND
	ASPHALTIC CONCRETE (A.C.)		EARTHWORK/GRADING		STUCCO
	CHECKERED PLATE		NATIVE ROCK		
	CONCRETE		GRATING		

UTILITY CONTACTS

CODE	NAME	ADDRESS	CONTACT NAME	PHONE NUMBER
CAMGAS	CAMPORA PROPANE SERVICES	CAMGAS PO BOX 478 ANGELS CAMP, CA 95222	DESIREE MACLEAN	(209)736–0449
COMCLV	COMCAST–CALAVERAS	6505 TAM O'SHANTER DR. STOCKTON, CA 95210	KRIS COOK, REG. CONS. SPECIALIST	(925)453–6500, EXT. 3043190
JSWGAS	J.S. WEST PROPANE	PO BOX 37 ANGELS CAMP, CA 95222	KATLIN LINKER	(209)736–4799
PACBEL	PACIFIC BELL	---	SCOTT ELSASSER	(209)474–4397 se1672@att.com
PGEMDO	PGE DISTR MODESTO	---	---	(877)743–7782 DelineationMapReq uests@pge.com
WATER SEWER STORM DRAIN	CITY OF ANGELS	CITY OF ANGELS 200 B. MONTE VERDA STREET ANGELS CAMP, CA 95222	DAVE POROVICH	(209)736–2181

REVISIONS

GO.20

REVISION

REVISIONS

[illegible]





SURVEY CONTROL POINTS

SCALE: 1" = 50'

UTILITY NOTE:

UNICO ENGINEERING HAS FIELD LOCATED ALL VISIBLE UTILITIES AND APPURTENANT STRUCTURES SHOWN HEREON. THE LOCATIONS OF ANY UNDERGROUND UTILITIES SHOWN HEREON WERE BASED UPON FIELD EVIDENCE. ACTUAL DEPTHS AND ALIGNMENTS SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

DATUM NOTE:

HORIZONTAL DATUM: NAD 83 CALIFORNIA ZONE 3  
EPOCH DATE: 2010.00

VERTICAL DATUM: NAVD 88

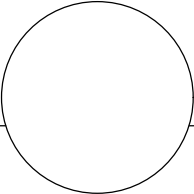
SURVEY CONTROL POINTS:

PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	2215021.60	6549266.58	1471.75	CP MAG
202	2215274.61	6549210.41	1475.88	CP 60D
203	2215119.49	6549294.45	1464.60	CP 60D
206	2214825.40	6549299.88	1460.56	CP 60D
207	2215440.12	6549174.24	1474.08	CP SPIKE

REVISED BID SET

SURVEY CONTROL POINTS

 **Dewberry**



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

SHEET No.	TOTAL SHEETS
4	21





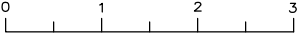
CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	CALCULATED - BY DESIGNED BY	C. AGUIAR	REVISED BY	C. AGUIAR
PURDY ROAD WATER AND SEWER IMPROVEMENTS	D. RICHARD	CHECKED BY	K. TRAN	DATE REVISED	06/12/25



PROPERTY OWNERSHIP AND EASEMENT MAP

SCALE: 1" = 50'

RELATIVE BORDER SCALE  
IS IN INCHES



REVISED BID SET


PROPERTY OWNERSHIP AND EASEMENT MAP

UNIT 0000

PROJECT NUMBER & PHASE

00000000

USERNAME =>caguiar  
DWG FILE => PRWS-G-G0.50.dwg



SHEET No.5TOTAL SHEETS21

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

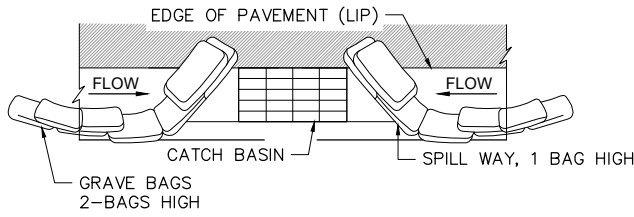
DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

GO.50

LAST REVISION  
06-12-25  
DATE PLOTTED => Jun 12, 2025  
TIME PLOTTED => 3:59 pm



x							
			C. AGUIAR	REVISD BY	06/12/25		
x							
			C. AGUIAR	DATE	REVISED		
x							
				CALCULATED-- DESIGNED BY	CHECKED BY		
x							
				CONSULTANT PROJECT MANAGER	D. RICHARD		
x							
				CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	PURDY ROAD WATER AND SEWER IMPROVEMENTS		



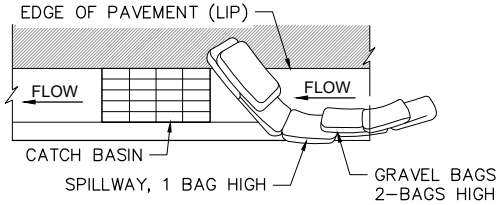
TYPICAL PROTECTION  
FOR INLET ON SUMP

SCALE: N.T.S

DI PROTECTION TYPE 3 - GRAVEL BAG:

THE GRAVEL BAG BARRIER (TYPE 3) IS SHOWN IN THE FIGURES. FLOW FROM A SEVERE STORM SHOULD NOT OVERTOP THE CURB. IN AREAS OF HIGH CLAY AND SILTS, USE FILTER FABRIC AND GRAVEL AS ADDITIONAL FILTER MEDIA. GRAVEL BAGS SHOULD BE USED DUE TO THEIR HIGH PERMEABILITY.

1. USE SAND BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 0.75 IN. ROCK OR 0.25 IN. PEA GRAVEL.
2. CONSTRUCT ON GENTLY SLOPING STREET.
3. LEAVE ROOM UPSTREAM OF BARRIER FOR WATER TO POND AND SEDIMENT TO SETTLE.
4. PLACE SEVERAL LAYERS OF SAND BAGS - OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
5. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY. FLOW FROM A SEVERE STORM (E.G., 10 YEAR STORM) SHOULD NOT OVERTOP THE CURB.
6. THIS DETAIL IS TO BE USED ON EXISTING STREETS WHERE SILTED FLOW IS TO BE INTERCEPTED (CAUGHT) PRIOR TO ENTERING THE STORM DRAIN SYSTEM. SANDBAGS CAN ALSO BE USED WHEN THE ROUGH GRADED STREETS HAVE POURED IN-PLACE CONCRETE SURROUNDING THE INLET TO CREATE A "FLOW LINE" WHERE A DAM CAN BE ACHIEVED TO PROTECT THE STORM SYSTEM FROM THE INFLOW OF SEDIMENT.



TYPICAL PROTECTION  
FOR INLET ON GRADE

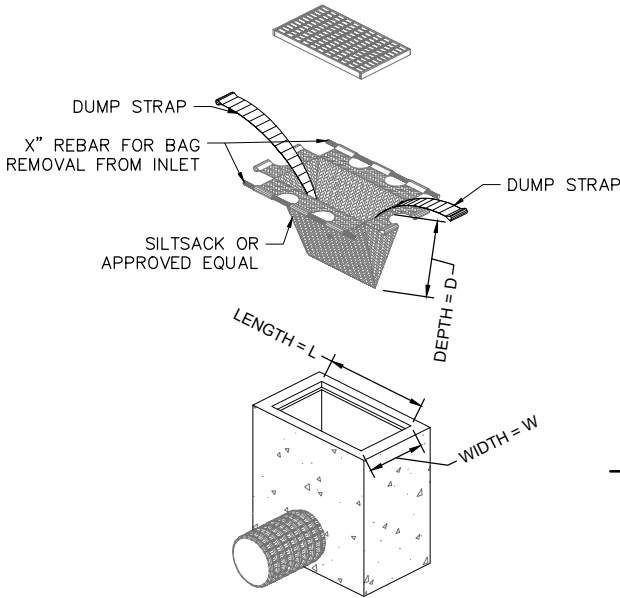
SCALE: N.T.S

NOTE:

1. INTENDED FOR SHORT-TERM USE.
2. USE TO INHIBIT NON-STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEAN UP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

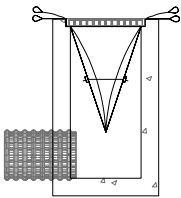
DI PROTECTION - TYPE 3

SCALE: N.T.S

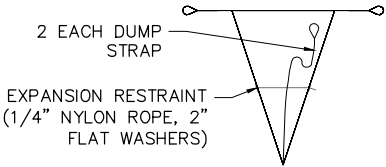


TYPICAL SILTSACK CONSTRUCTION

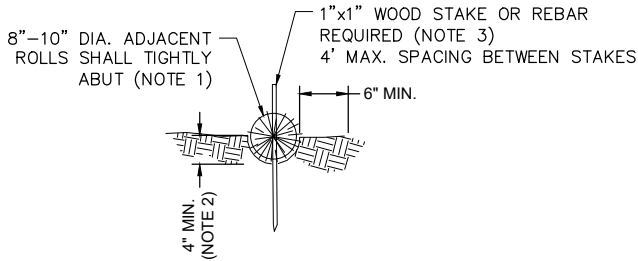
SCALE: N.T.S



INSTALLATION DETAIL



BAG DETAIL



NOTE:

1. WATTLES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING ALONG EXISTING FENCE.
2. EACH WATTLE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES. AFTER CONSTRUCTION, CONTRACTOR TO REMOVE WATTLES AND FILL CAVITY.
3. WATTLES SHALL BE SECURELY ANCHORED IN-PLACE BY TWO STAKES OR REBARS DRIVEN THROUGH THE WATTLES. THE FIRST STAKE IN EACH WATTLE SHALL BE DRIVE TOWARD THE PREVIOUSLY LAND WATTLE TO FORCE THE WATTLES TOGETHER.
4. THE DIKE SHALL BE INSPECTED AFTER EACH STORM, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. THE WATTLES SHALL BE REMOVED ONCE THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW WATTLE DETAIL

SCALE: N.T.S

**Dewberry**



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

REVISED BID SET

EROSION CONTROL DETAILS NO. 1

USERNAME ==>caguilar  
DWG FILE ==> PRWS-G-G0.60-G0.61.dwg

RELATIVE BORDER SCALE  
IS IN INCHES

0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE

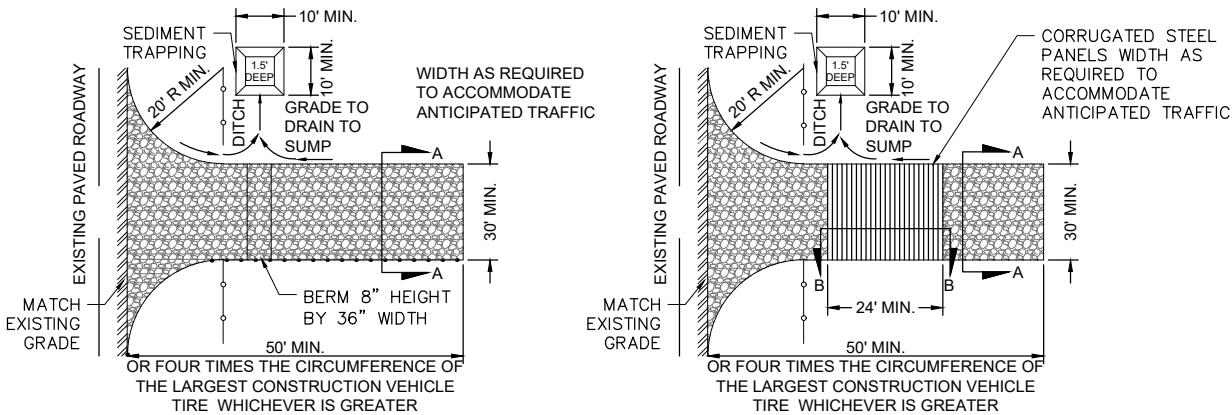
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G0.60

DATE PLOTTED => Jun 12, 2025  
TIME PLOTTED => 3:59 pm  
LAST REVISION  
06-12-25



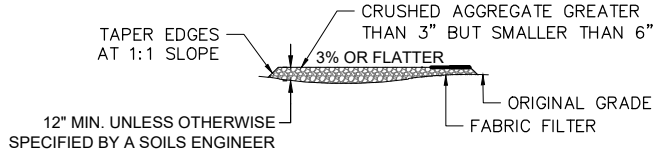
CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS	PURDY ROAD WATER AND SEWER IMPROVEMENTS	CONSULTANT PROJECT MANAGER D. RICHARD	CALCULATED – DESIGNED BY CHECKED BY	C. AGUIAR K. TRAN	REVISED BY DATE	C. AGUIAR 06/12/25	



NOTE:

1. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE

PLAN OPTION 1

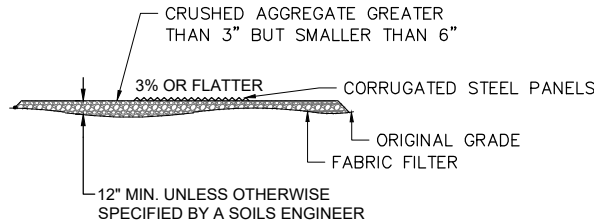


SECTION A-A

NOTE:

1. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE

PLAN OPTION 2



SECTION B-B

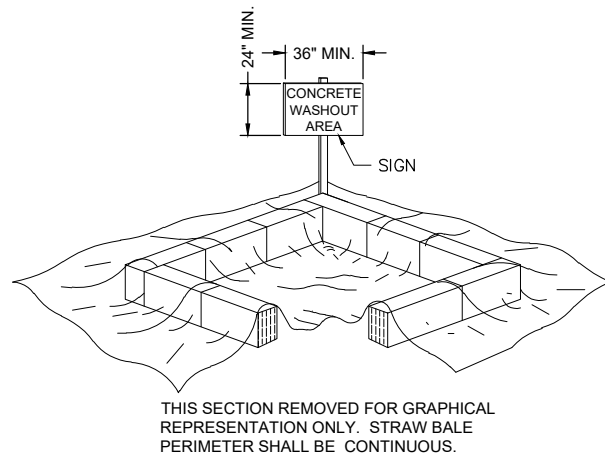
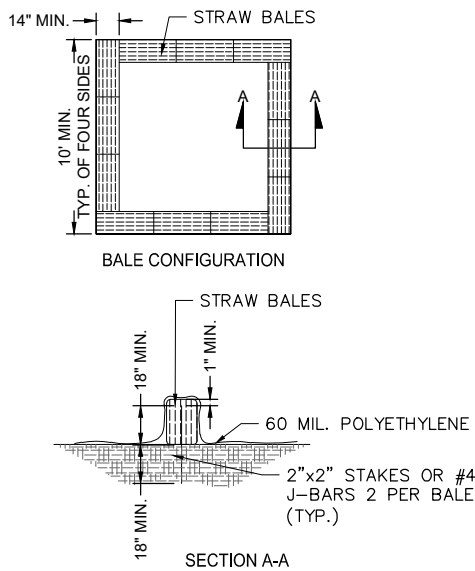
TEMPORARY STABILIZED CONSTRUCTIONS ENTRANCE:

DESIGN AND CONSTRUCTION SPECIFICATIONS:

1. THE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS OF THE LATEST EDITION OF THE CALIFORNIA STORMWATER HANDBOOK, DETAIL TC-1. WHERE THERE IS A DISCREPANCY BETWEEN THIS DETAIL AND THE CALIFORNIA STORMWATER HANDBOOK, THE HANDBOOK SHALL GOVERN.
2. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT EACH ENTRANCE TO THE PROJECT SITE AND SHALL BE CONSTRUCTED ON LEVEL GROUND.
3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3 TO 6 INCH DIA. STONE.
4. THE THICKNESS FOR THE PAD SHALL NOT BE LESS THAN 12 INCHES OR AS RECOMMENDED BY SOILS ENGINEER.
5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN 30' OR THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, WHICHEVER IS GREATER.
6. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, SEDIMENT BASIN, OR SEDIMENT SWALE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF GRAVEL BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
9. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.
10. CONSTRUCTION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE 2003 CALIFORNIA STORMWATER BMP HANDBOOK.

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S



NOTE:

1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50 FEET MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES.
3. CONTRACTOR SHALL CONDUCT ALL CONCRETE WASHOUT ONSITE AS DIRECTED BY CITY.

CONCRETE WASHOUT DETAIL

SCALE: N.T.S

REVISED BID SET

EROSION CONTROL DETAILS NO. 2

USERNAME ==>caguiar  
DWG FILE ==> PRWS-G-G0.60-G0.61.dwg

RELATIVE BORDER SCALE  
IS IN INCHES

0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE

00000000

G0.61

DATE PLOTTED ==> Jun 12, 2025  
TIME PLOTTED ==> 3:59 pm




CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER		CALCULATED– DESIGNED BY	C. AGUIAR	REVISED BY	C. AGUIAR	
	D. RICHARD						
PURDY ROAD WATER AND SEWER IMPROVEMENTS			CHECKED BY	K. TRAN	DATE REVISED	06/12/25	




PLAN

SCALE: 1" = 50'



SHEET No.8TOTAL SHEETS21



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

- LEGEND:
- EXISTING 4" POTABLE WATER MAIN
  - EXISTING 6" POTABLE WATER MAIN
  - EXISTING 10" POTABLE WATER MAIN
  - EXISTING 4" SANITARY SEWER
  - EXISTING 6" SANITARY SEWER
  - EXISTING 8" SANITARY SEWER

USERNAME =>caguiar  
DWG FILE => PRWS-C-C0.01-C0.12.dwg

RELATIVE BORDER SCALE  
IS IN INCHES



REVISED BID SET

UNIT 0000

WATER AND SEWER MAIN EXISTING CONDITIONS

PROJECT NUMBER & PHASE

00000000

CO.01


LAST REVISION  
06-12-25  
DATE PLOTTED => Jun 12, 2025  
TIME PLOTTED => 4:00 pm




CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER					C. AGUIAR	REVISD BY	C. AGUIAR
	PURDY ROAD WATER AND SEWER IMPROVEMENTS							
	D. RICHARD					K. TRAN	DATE REVISED	06/12/25
	CHECKED BY							
	DESIGNED BY							



**PLAN**  
SCALE: 1" = 50'











SHEET No.9TOTAL SHEETS21

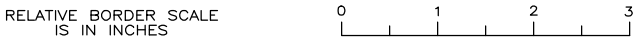


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DEPARTMENT OF PUBLIC WORKS  
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DEWBERRY  
903 W CENTER STREET  
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- LEGEND:
-  REHABILITATION OF SANITARY SEWER
  -  PROPOSED 8" POTABLE WATER MAIN
  -  EXISTING 4" POTABLE WATER MAIN
  -  EXISTING 6" POTABLE WATER MAIN
  -  EXISTING 10" POTABLE WATER MAIN
  -  EXISTING 4" SANITARY SEWER
  -  EXISTING 6" SANITARY SEWER
  -  EXISTING 8" SANITARY SEWER

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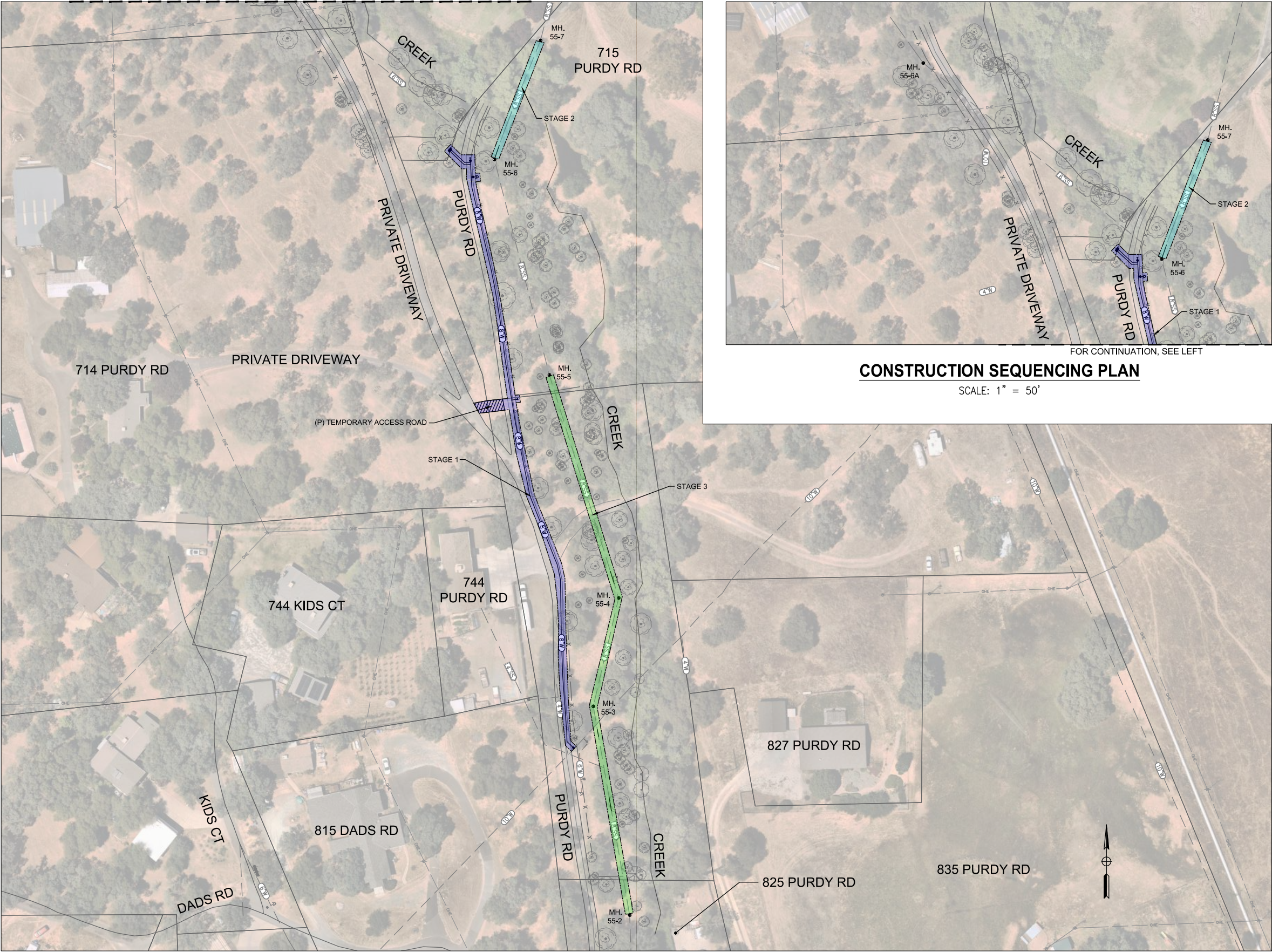
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UNIT 0000	PROJECT NUMBER & PHASE	00000000	

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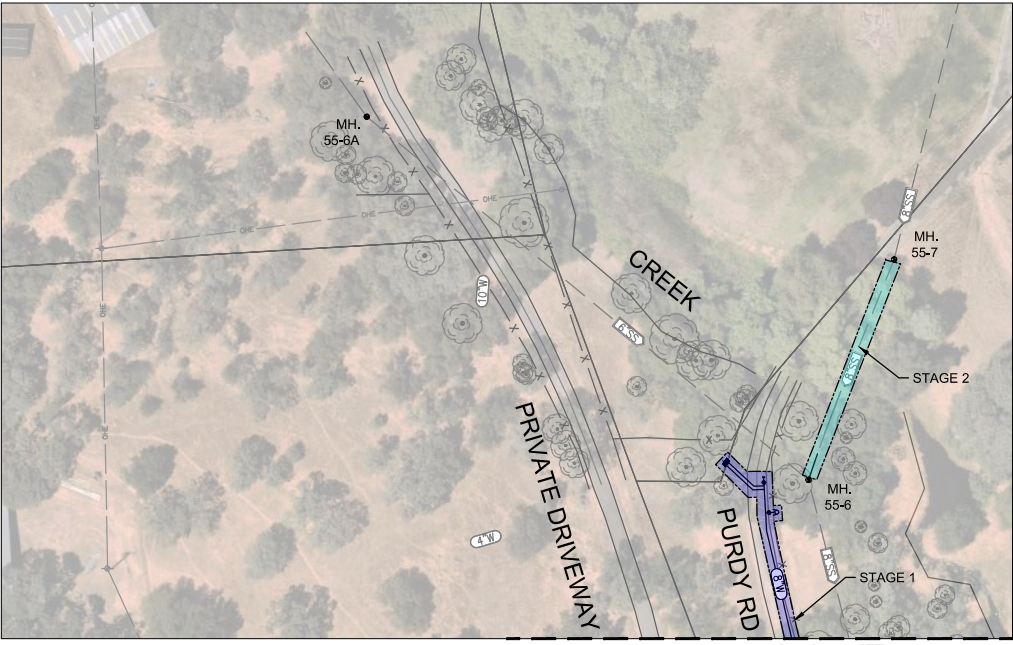
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TIME PLOTTED => 4:00 pm



CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS		CONSULTANT PROJECT MANAGER	CALCULATED— DESIGNED BY	C. AGUIAR	REVISD BY	C. AGUIAR	DATE	06/20/25	
PURDY ROAD WATER AND SEWER IMPROVEMENTS		D. RICHARD	CHECKED BY	K. TRAN					



CONSTRUCTION SEQUENCING PLAN  
SCALE: 1" = 50'



CONSTRUCTION SEQUENCING PLAN  
SCALE: 1" = 50'

SHEET No.10TOTAL SHEETS21

PROFESSIONAL ENGINEER

DAVID RICHARD

No. 33479

EXP. 6/30/26

CIVIL

STATE OF CALIFORNIA

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337


- LEGEND:
- STAGE 1
  - STAGE 2
  - STAGE 3
- PROPOSED 8" POTABLE WATER MAIN  
EXISTING 4" POTABLE WATER MAIN  
EXISTING 6" POTABLE WATER MAIN  
EXISTING 10" POTABLE WATER MAIN  
EXISTING 4" SANITARY SEWER  
EXISTING 6" SANITARY SEWER  
EXISTING 8" SANITARY SEWER

- CONSTRUCTION SEQUENCE NOTES:
- STAGE 1:
- CONSTRUCT 11-FT WIDE GRAVEL ACCESS ROAD FROM PURDY ROAD TO PRIVATE DRIVEWAY TO 714 PURDY ROAD.
  - CONSTRUCT (P) 8" WATER MAIN UP TO CONNECTION TO (E) 10" WATER MAIN IN THREE STAGES.
  - FLUSH, TEST, AND DISINFECT NEW WATER MAIN.
  - CITY TO UNDERTAKE BACTERIOLOGICAL TESTING OF NEW WATER MAIN.
  - FOLLOWING SUCCESSFUL TESTING, CONTRACTOR TO CONNECT (P) 8" WATER MAIN TO (E) 10" WATER MAIN AND DISINFECT AS DIRECTED BY CITY.
  - CONTRACTOR TO RECONSTRUCT PURDY ROAD.
- STAGE 2:
- PLUG OUTLET OF MH. 55-6A. CONTRACTOR TO REMOVE WASTEWATER BY VACTOR TRUCK ON DAILY BASIS. PLUG MH. 55-7 AT OUTLET AND CONSTRUCT BYPASS PUMP/PIPING SYSTEM TO MH. 55-6. PLUG INLET TO MH. 55-6 AND BEGIN BYPASS PUMPING.
  - REHABILITATE SECTION OF (E) 8" SANITARY SEWER BETWEEN MH. 55-6 AND MH. 55-7.
  - TEST NEW SANITARY SEWER.
  - UPON COMPLETION OF TESTING, REMOVE PLUGS AT MH. 55-6A, MH. 55-6, AND MH. 55-7 AND DISCONTINUE BYPASS PUMPING.
- STAGE 3:
- PLUG MH. 55-5 AT OUTLET AND CONSTRUCT BYPASS PUMP/PIPING SYSTEM TO MH. 55-2. PLUG INLET TO MH. 55-2 AND BEGIN BYPASS PUMPING.
  - REHABILITATE SECTIONS OF (E) 8" SANITARY SEWER BETWEEN MH. 55-2 AND MH. 55-5.
  - TEST NEW SANITARY SEWER.
  - UPON COMPLETION OF TESTING, REMOVE PLUGS AT MH. 55-2 AND MH. 55-5 AND DISCONTINUE BYPASS PUMPING.
- KEY NOTES:
- FOR BYPASSING REQUIREMENTS, SEE DETAIL 7, SHEET CD0.02.
  - FOR ACCESS ROAD CONSTRUCTION, SEE DETAIL 8, SHEET CD0.02.






**PLAN**  
SCALE: 1" = 50'



SHEET No. 11

TOTAL SHEETS 21



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

- LEGEND:
- STAGE 1
  - STAGE 2
  - STAGE 3
- PROPOSED 8" POTABLE WATER MAIN
- EXISTING 4" POTABLE WATER MAIN
- EXISTING 6" POTABLE WATER MAIN
- EXISTING 10" POTABLE WATER MAIN
- EXISTING 4" SANITARY SEWER
- EXISTING 6" SANITARY SEWER
- EXISTING 8" SANITARY SEWER

- KEY NOTES:
- SEE DETAIL 7, SHEET CD0.02 FOR TYPICAL BYPASS PUMPING SET-UP.
  - STAGE 2 BYPASS PIPING SHALL INCLUDE UTILITY BRIDGE FOR TEMPORARY CREEK CROSSING.


STAGING FOR SEWER REHABILITATION / SEWER BYPASS		
STAGE	SEWER SECTION TO BE REHABILITATED	SEWER BYPASSING REQUIREMENTS
2	8", MH. 55-7 TO MH. 55-6	MH. 55-7 TO MH. 55-5
3	8", MH. 55-5 TO MH. 55-4, MH. 55-3 TO MH. 55-2	MH. 55-5 TO MH. 55-2






TRAFFIC CONTROL PLAN

SCALE: 1" = 60'





SHEET No.12TOTAL SHEETS21






CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

- LEGEND:
-  EXISTING 4" SANITARY SEWER
  -  EXISTING 6" SANITARY SEWER
  -  EXISTING 8" SANITARY SEWER
  -  TRAFFIC DIRECTION

- CONSTRUCTION AREA SIGNS:
-  W20-1 "ROAD WORK AHEAD" STATIONARY SIGN (36X36)
  -  G20-2 "END ROAD WORK" STATIONARY SIGN (36X18)

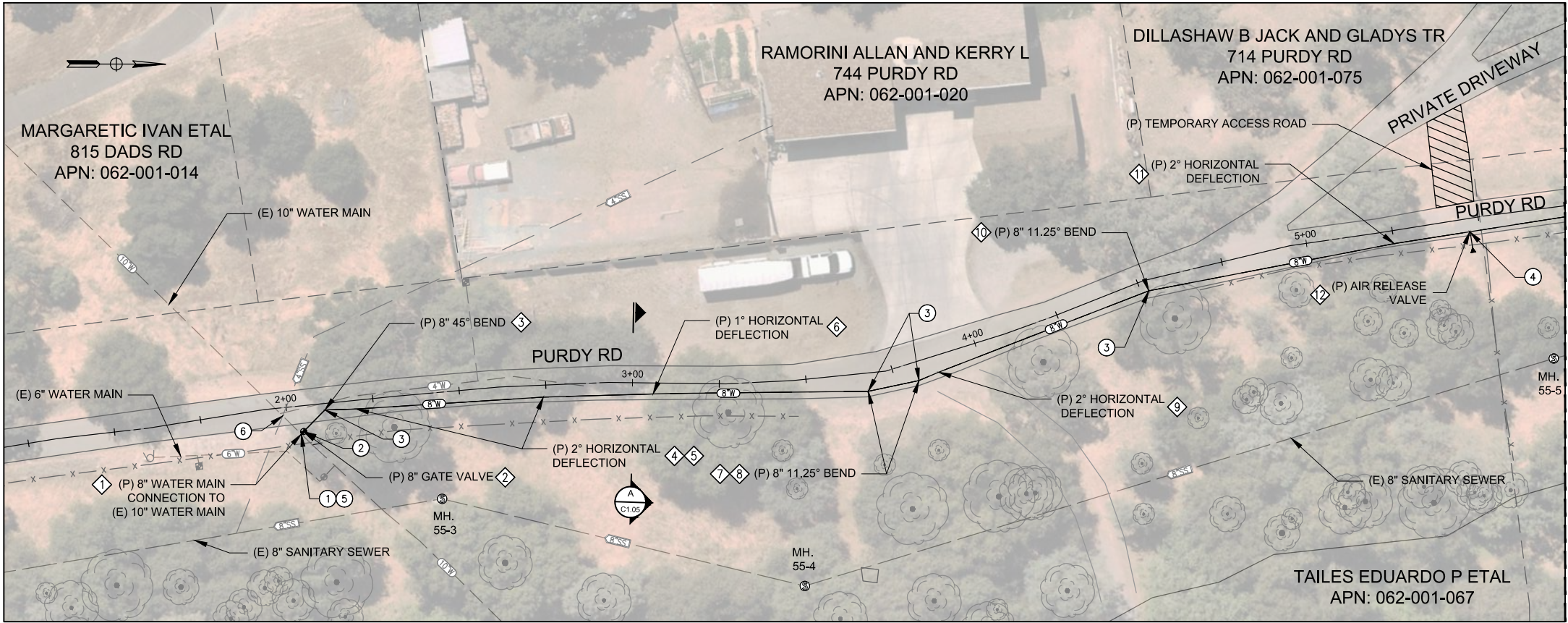
- TRAFFIC CONTROL LEGEND:
-  ROAD CLOSURE FOR DAY WORK (7:00AM - 4:30PM)
  -  ROAD CLOSURE FOR NIGHT WORK (10:00PM - 4:00AM)
  -  TRAFFIC DIVERSION ROUTE

- TRAFFIC CONTROL STAGING NOTES:
- STAGE 1-A:
- ROAD CLOSURE TO TRAFFIC DURING DAILY CONSTRUCTION. TRAFFIC DIVERTED THROUGH DADS ROAD, KIDS COURT AND PROPOSED ACCESS ROAD.
  - TRENCH TO BE PLATED AND TRAFFIC RESTORED AT END OF WORKING DAY.
  - WORK AREA SHALL BE SURROUNDED BY TRAFFIC BARRICADE.
- STAGE 1-B:
- ROAD CLOSURE TO TRAFFIC DURING DAILY CONSTRUCTION. TRAFFIC DIVERTED THROUGH DADS ROAD AND KIDS COURT AND PROPOSED ACCESS ROAD.
  - TRENCH TO BE PLATED AND TRAFFIC RESTORED AT END OF WORKING DAY.
  - WORK AREA SHALL BE SURROUNDED BY TRAFFIC BARRICADE.
- STAGE 1-C:
- ROAD CLOSURE TO TRAFFIC DURING NIGHT-TIME CONSTRUCTION 10:00PM - 4:00AM.
  - TRENCH TO BE PLATED AT END OF WORKING DAY AND TRAFFIC RESTORED BY 4:00AM.
  - WORK AREA SHALL BE SURROUNDED BY TRAFFIC BARRICADE.

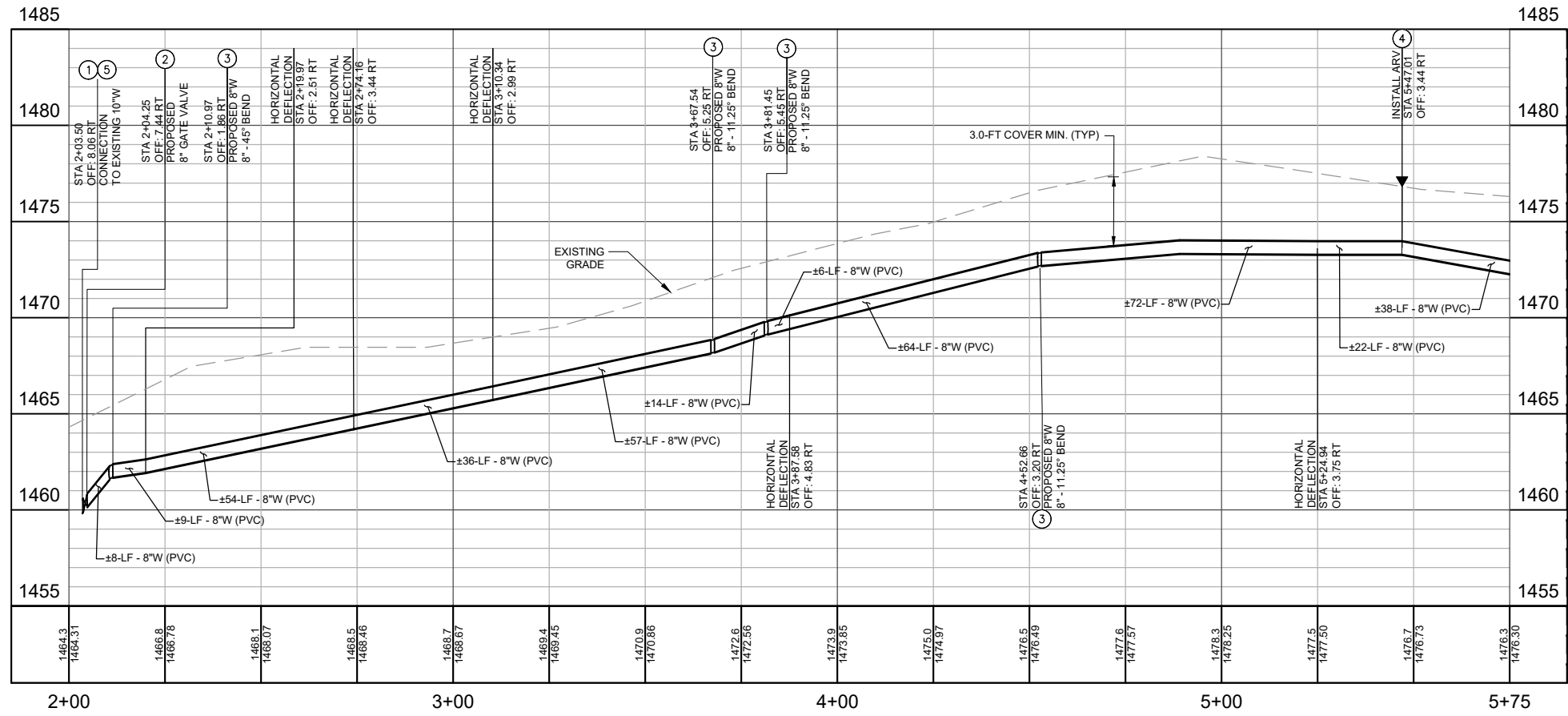
- GENERAL NOTES:
- TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY STANDARD SPECIFICATIONS AND THE CAMUTCD.
  - CONSTRUCTION AREA SIGNS SHOWN SHALL BE IN ADDITION TO ANY REQUIRED TEMPORARY TRAFFIC CONTROL.
  - LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
  - WHEN WORK IS PERFORMED THAT REQUIRES ROAD CLOSURE, PORTABLE MESSAGE SIGNS SHALL BE PROVIDED.
  - FOR PORTABLE CHANGEABLE MESSAGE SIGN USE ABBREVIATIONS LISTED IN CALIFORNIA MUTCD, PAGE 96-98, CONTRACTOR SHALL COORDINATE WITH THE CITY ON MESSAGE AND DURATION OF PCMS.

- KEY NOTES:
- CONTRACTOR SHALL CONSTRUCT WATERLINE IN PURDY ROAD IN STAGES BEGINNING WITH STAGE 1-A.
  - TEMPORARY PAVEMENT SHALL BE PLACED AS PART OF TRENCH RESTORATION AT THE COMPLETION OF EACH STAGE.
  - FINAL PAVEMENT RESTORATION SHALL BE CONSTRUCTED FOLLOWING CITY ACCEPTANCE OF WATERLINE.
  - ACCESS FOR EMERGENCY VEHICLES MUST BE MAINTAINED AT ALL TIMES.





PLAN  
SCALE: 1" = 20'



PROFILE  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

SHEET No.

13

TOTAL SHEETS

21

REGISTERED PROFESSIONAL ENGINEER

DAVID RICHARD

No. 33479

EXP. 6/30/26

CIVIL

STATE OF CALIFORNIA

CITY OF ANGELS

DEPARTMENT OF PUBLIC WORKS

2990 CENTENNIAL ROAD

ANGELS CAMP, CA 95222

DEWBERRY

903 W CENTER STREET

MANTECA, CA 95337

HORIZONTAL CONTROL			
POINT	NORTHING	EASTING	DESCRIPTION
1	2214864.30	6549289.60	8" TO 10" CONNECTION
2	2214864.97	6549288.90	8" GATE VALVE
3	2214871.05	6549282.63	8" 45° BEND
4	2214880.07	6549282.31	2" HORIZONTAL DEFLECTION
5	2214933.94	6549278.55	2" HORIZONTAL DEFLECTION
6	2214969.92	6549277.29	1" HORIZONTAL DEFLECTION
7	2215027.55	6549276.28	8" 11.25° BEND
8	2215042.12	6549273.12	8" 11.25° BEND
9	2215047.78	6549270.66	2" HORIZONTAL DEFLECTION
10	2215108.16	6549246.87	8" 11.25° BEND
11	2215178.78	6549232.83	2" HORIZONTAL DEFLECTION
12	2215200.59	6549229.27	AIR RELEASE VALVE

- WATER KEY NOTES:
- 1 CONNECT TO (E) WATER MAIN PER DETAIL 2, SHEET CD0.01.
  - 2 INSTALL 8" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE DETAIL 9, SHEET CD0.03.
  - 3 INSTALL FITTING AND RESTRAINED JOINTS PER PLAN.
  - 4 INSTALL AIR RELEASE VALVE PER CITY STANDARD DRAWING WS-9. VENT PIPING SHALL HAVE POSITIVE OR FLAT SLOPE FROM ARV TO THE PIPE, SEE DETAIL 12, SHEET CD0.03.
  - 5 FOR CONNECTION DETAIL, SEE DETAIL 2, SHEET CD0.01.
  - 6 CONTRACTOR SHALL POTHOLE EXISTING 4" SANITARY SEWER LATERAL FROM 744 PURDY ROAD TO FIELD VERIFY ALIGNMENT AND INVERT ELEVATION. IF FOUND LOCATION OF 4" SANITARY SEWER WOULD CREATE LESS THAN 10-FT SEPARATION FROM PROPOSED WATERLINE, POINT OF CONNECTION TO EXISTING WATERLINE SHALL BE ADJUSTED ACCORDINGLY.
- LEGEND:
- 8"W PROPOSED 8" POTABLE WATER MAIN
  - 4"W EXISTING 4" POTABLE WATER MAIN
  - 6"W EXISTING 6" POTABLE WATER MAIN
  - 10"W EXISTING 10" POTABLE WATER MAIN
  - 4"SS EXISTING 4" SANITARY SEWER
  - 8"SS EXISTING 8" SANITARY SEWER

REVISED BID SET

PROPOSED WATERLINE IMPROVEMENTS  
PURDY ROAD – PLAN AND PROFILE –1

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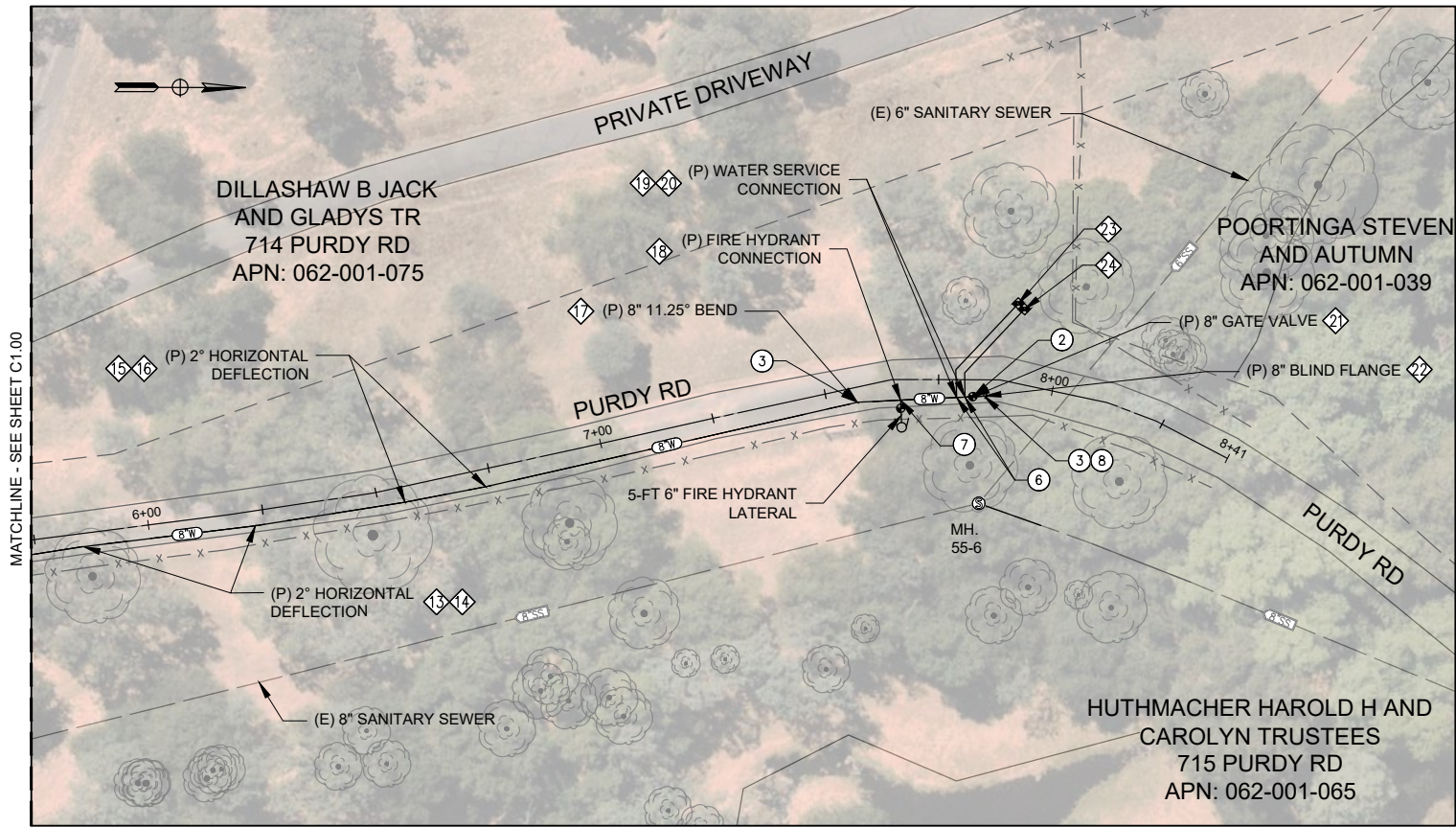


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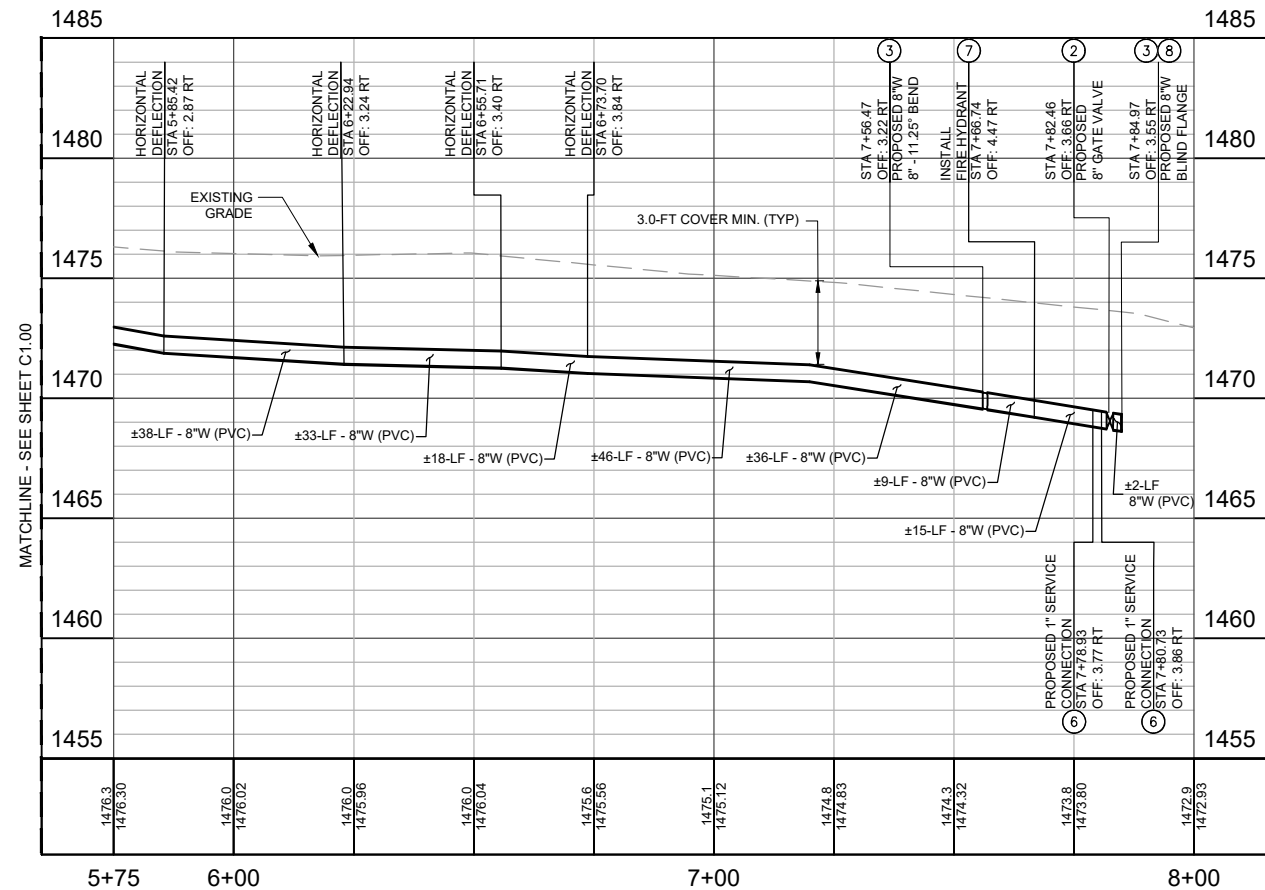
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CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	CALCULATED-- DESIGNED BY	C. AGUIAR	REVISED BY	C. AGUIAR
PURDY ROAD WATER AND SEWER IMPROVEMENTS	D. RICHARD	CHECKED BY	K. TRAN	DATE REVISED	06/12/25




**PLAN**  
SCALE: 1" = 20'




**PROFILE**  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'















<b>REVISED BID SET</b>		PROPOSED WATERLINE IMPROVEMENTS PURDY ROAD — PLAN AND PROFILE — 2	
UNIT 0000	PROJECT NUMBER & PHASE		00000000

 <h1>Dewberry®</h1>	SHEET No.	TOTAL SHEETS
	14	21






CITY OF ANGELS DEPARTMENT OF PUBLIC WORKS 2990 CENTENNIAL ROAD ANGELS CAMP, CA 95222	DEWBERRY 903 W CENTER STREET MANTECA, CA 95337
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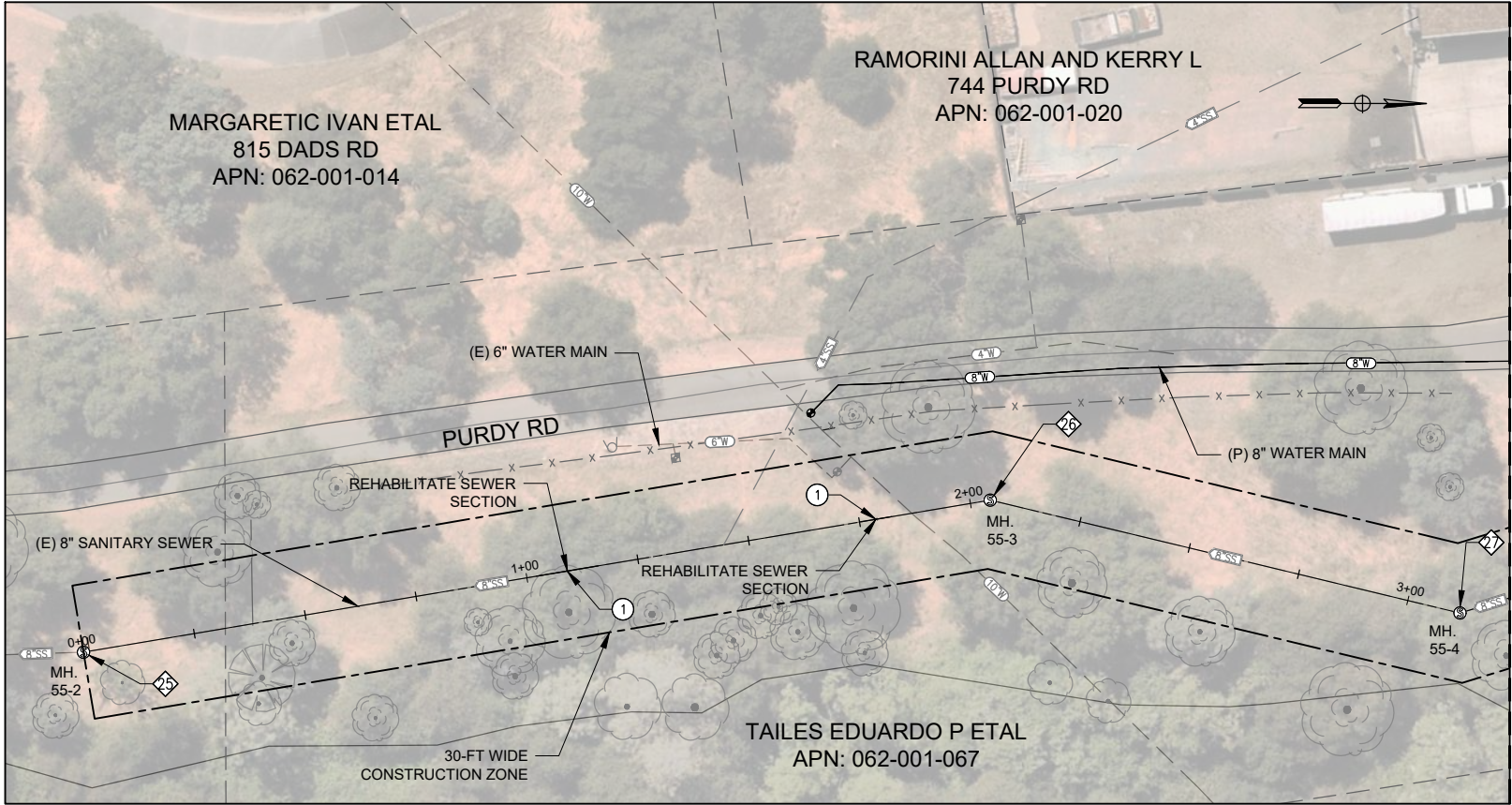
HORIZONTAL CONTROL			
POINT	NORTHING	EASTING	DESCRIPTION
	6549223.13	2215238.32	2° HORIZONTAL DEFLECTION
	6549218.39	2215275.61	2° HORIZONTAL DEFLECTION
	6549213.07	2215308.15	2° HORIZONTAL DEFLECTION
	6549209.56	2215325.81	2° HORIZONTAL DEFLECTION
	6549190.72	2215406.40	8" 11.25° BEND
	6549190.21	2215415.79	FIRE HYDRANT CONNECTION
	6549189.54	2215427.98	WATER SERVICE CONNECTION
	6549189.43	2215429.78	WATER SERVICE CONNECTION
	6549189.33	2215431.53	8" GATE VALVE
	6549189.18	2215434.52	8" BLIND FLANGE
	6549169.03	2215441.27	WATER METER
	6549170.25	2215442.59	WATER METER

- WATER KEY NOTES:
- ② INSTALL 8" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE DETAIL 9, SHEET CD0.03.
  - ③ INSTALL FITTING AND RESTRAINED JOINTS PER PLAN.
  - ⑥ INSTALL WATER SERVICE CONNECTION PER CITY STANDARD DRAWING WS-2, SEE DETAIL 10, SHEET CD0.03.
  - ⑦ INSTALL FIRE HYDRANT ASSEMBLY PER CITY STANDARD DRAWING WS-6, SEE DETAIL 11, SHEET CD0.03.
  - ⑧ CAP BLIND FLANGE WITH CONCRETE SEE DETAIL 5, SHEET CD0.01.

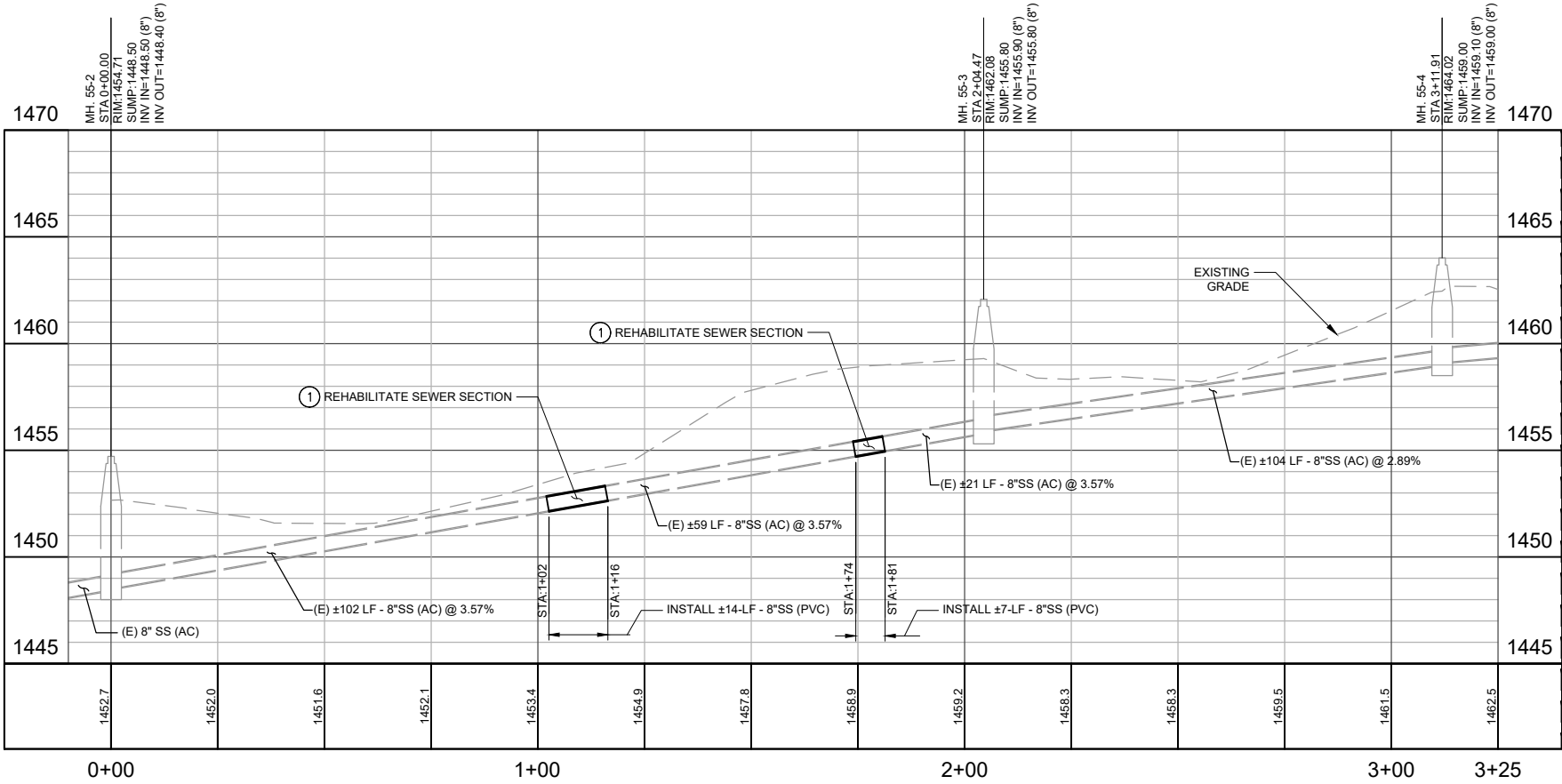
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	PROPOSED 8" POTABLE WATER MAIN
	EXISTING 8" SANITARY SEWER
	EXISTING 6" SANITARY SEWER





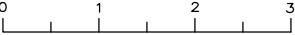
PLAN  
SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

RELATIVE BORDER SCALE  
IS IN INCHES



SHEET No.	TOTAL SHEETS
15	21

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

HORIZONTAL CONTROL			
POINT	NORTHING	EASTING	DESCRIPTION
25	2214703.53	6549343.06	SANITARY SEWER MH. 55-2
26	2214904.98	6549308.01	SANITARY SEWER MH. 55-3
27	2215009.61	6549332.44	SANITARY SEWER MH. 55-4

SEWER KEY NOTES:  
① REHABILITATE SEWER PER DETAIL 3 AND DETAIL 4, SHEET CD0.01.

- LEGEND:
- PROPOSED 8" POTABLE WATER MAIN
  - EXISTING 4" POTABLE WATER MAIN
  - EXISTING 6" POTABLE WATER MAIN
  - EXISTING 10" POTABLE WATER MAIN
  - EXISTING 4" SANITARY SEWER
  - EXISTING 8" SANITARY SEWER

REVISED BID SET

PROPOSED SEWER REHABILITATION, MH. 55-2  
TO MH. 55-4 – PLAN AND PROFILE

UNIT 0000

PROJECT NUMBER & PHASE

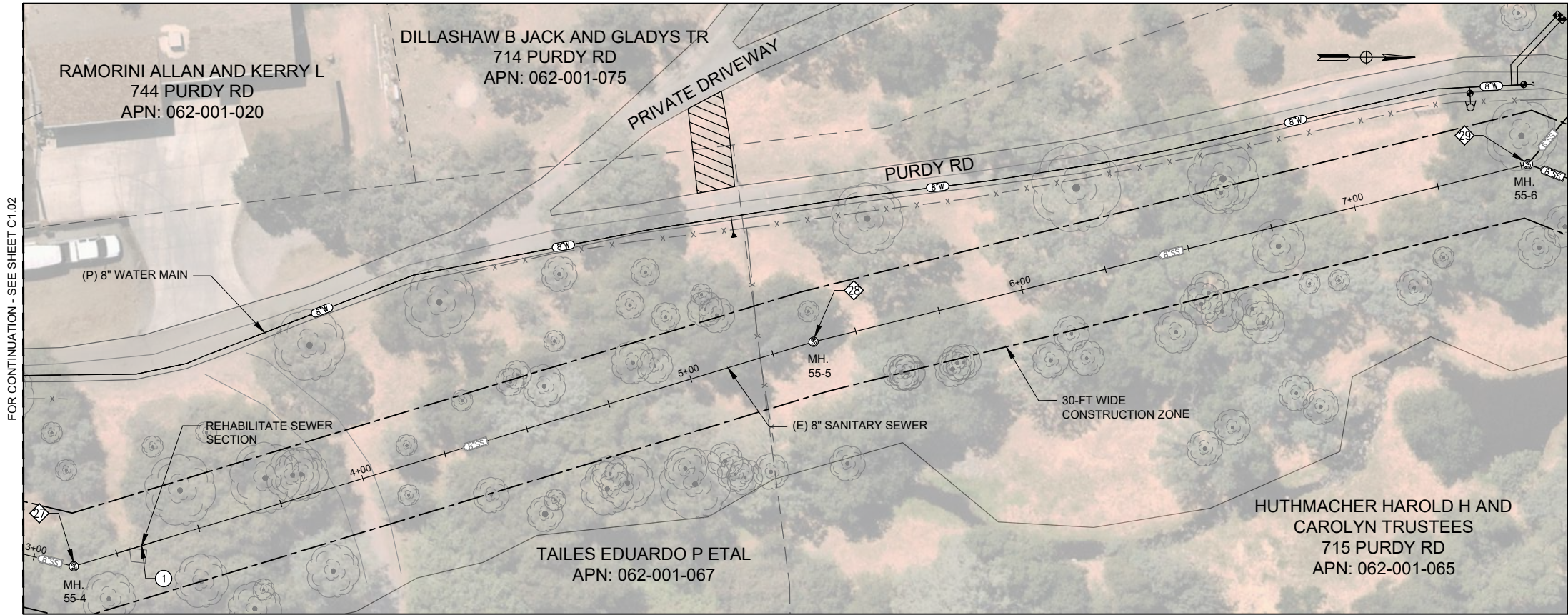
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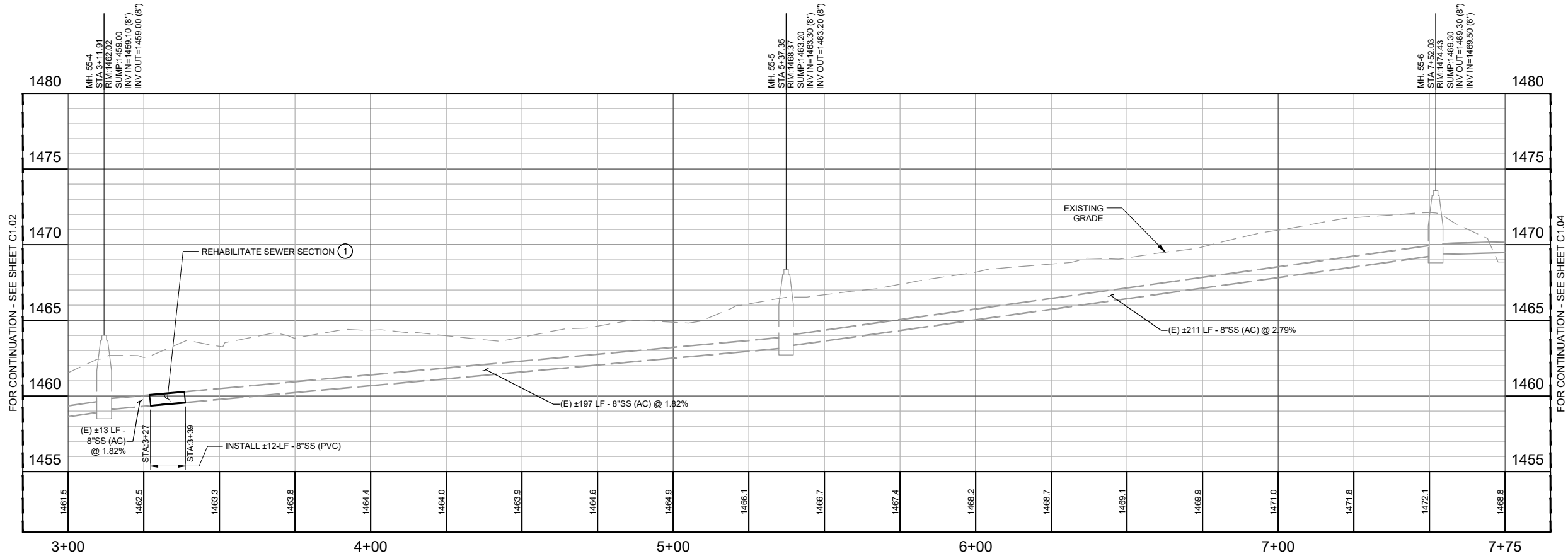
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TIME PLOTTED => 4:10 pm





PLAN  
SCALE: 1" = 20'



PROFILE  
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

SHEET No. 16

TOTAL SHEETS 21

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

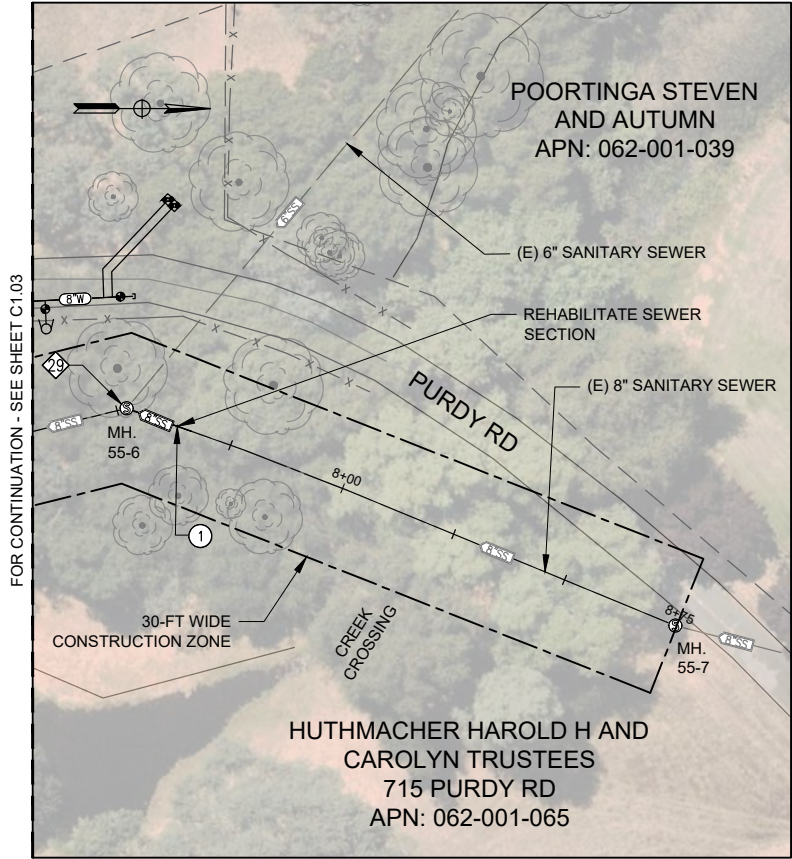
DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

HORIZONTAL CONTROL			
POINT	NORTHING	EASTING	DESCRIPTION
27	2215009.61	6549332.44	SANITARY SEWER MH. 55-4
28	2215224.91	6549265.61	SANITARY SEWER MH. 55-5
29	2215432.92	6549212.54	SANITARY SEWER MH. 55-6

SEWER KEY NOTES:  
① REHABILITATE SEWER PER DETAIL 3 AND DETAIL 4, SHEET CD0.01.

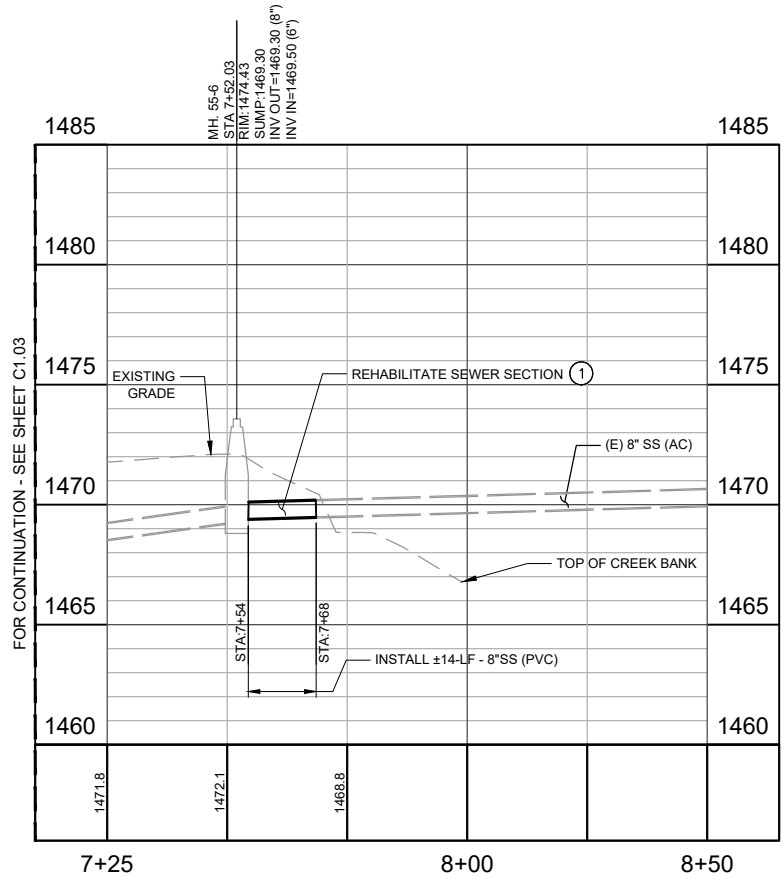
- LEGEND:
- 8" W PROPOSED 8" POTABLE WATER MAIN
  - 8" SS PROPOSED 8" SANITARY SEWER
  - 6" SS EXISTING 6" SANITARY SEWER
  - 8" SS EXISTING 8" SANITARY SEWER





PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

SHEET No. 17TOTAL SHEETS 21

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

HORIZONTAL CONTROL			
POINT	NORTHING	EASTING	DESCRIPTION
②	2215432.92	6549212.54	SANITARY SEWER MH. 55-6

- SEWER KEY NOTES:
- ① REHABILITATE SEWER PER DETAIL 3 AND DETAIL 4, SHEET CD0.01.
- LEGEND:
- PROPOSED 8" WATER MAIN
  - PROPOSED 8" SANITARY SEWER
  - EXISTING 6" SANITARY SEWER
  - EXISTING 8" SANITARY SEWER
- GENERAL NOTES:
1. DURING SEWER REHABILITATION, REMOVE AND REPLACE DOWNSTREAM PIPE SECTION WHERE ROOT INTRUSION OCCURRED. DO NOT REMOVE UPSTREAM PIPE SECTION THAT IS EXPOSED TO SURFACE.



CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	CALCULATED– DESIGNED BY	C. AGUIAR	REVISED BY	C. AGUIAR		
PURDY ROAD WATER AND SEWER IMPROVEMENTS	D. RICHARD	CHECKED BY	K. TRAN	DATE REVISED	06/12/25		

USERNAME =>caguiar  
DWG FILE => PRWS–C–C1.05.dwg

RELATIVE BORDER SCALE  
IS IN INCHES



REVISED BID SET		PROPOSED WATERLINE IMPROVEMENTS PURDY ROAD – SECTION VIEW	
UNIT 0000	PROJECT NUMBER & PHASE	00000000	

 **Dewberry®**

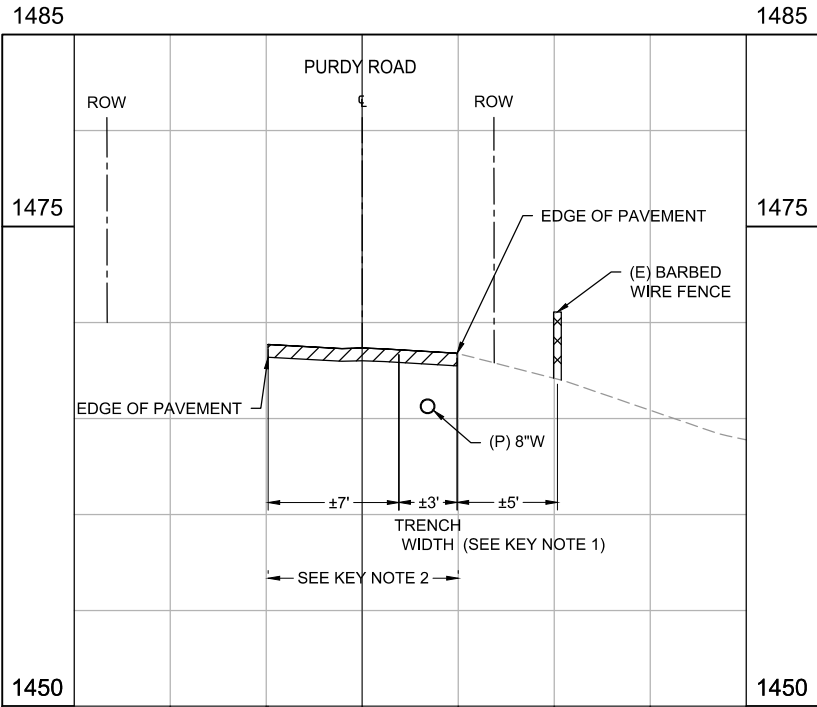


CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

KEY NOTES:

- ①
- FOR TRENCH SECTION, SEE DETAIL 1, SHEET CD0.01.
- ②
- FULL PAVEMENT SECTION RESTORATION IS REQUIRED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT OF PURDY ROAD, SEE DETAIL 6, SHEET CD0.01.



PROFILE  
SCALE: 1" = 5'



C1.05

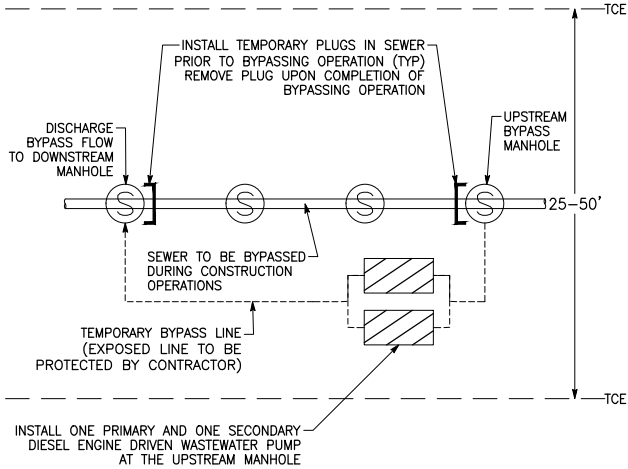
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06-12-25  
DATE PLOTTED => Jun 12, 2025  
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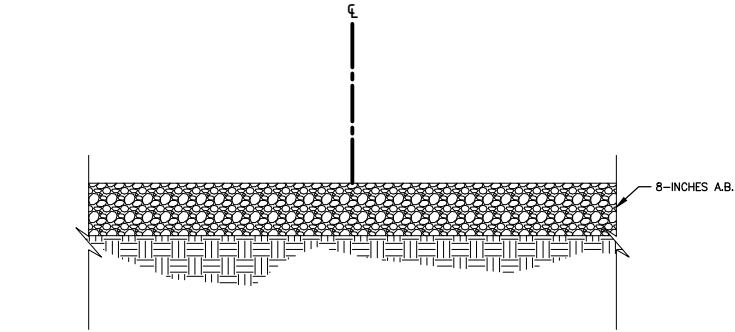
CITY OF ANGELS – DEPARTMENT OF PUBLIC WORKS PURDY ROAD WATER AND SEWER IMPROVEMENTS	CONSULTANT PROJECT MANAGER D. RICHARD	CALCULATED – DESIGNED BY	C. AGUIAR	REVISD BY	C. AGUIAR	DATE	06/12/25
		CHECKED BY	K. TRAN	DATE	REVISED	06/12/25	



- NOTES:
1. CONTRACTOR SHALL SUBMIT BYPASS PLAN FOR APPROVAL 14 DAYS IN ADVANCE OF BYPASSING OPERATIONS.
  2. CONTRACTOR SHALL ASSUME THAT MANHOLE WILL REQUIRE CLEANING TO ACCOMMODATE INSTALLATION OF TEMPORARY PLUG.
  3. FOR LOCATION OF BYPASS PUMPING INCLUDING TEMPORARY BYPASS LINE ALIGNMENT, SEE SHEET C0.12.
  4. BYPASS PUMPING CAPACITY SHALL BE AS FOLLOWS: XXX GPM

**TYPICAL SEWER BYPASSING REQUIREMENTS**

NOT TO SCALE



- NOTES:
1. GRADE EXISTING SURFACE AND CONSTRUCT 11-FEET WIDE A.B. ACCESS RAMP TO CONNECT PURDY ROAD TO PRIVATE DRIVEWAY. COORDINATE LOCATION/ALIGNMENT WITH OWNER, 714 PURDY ROAD.
  2. COMPACT AGGREGATE BASE TO 95% RC.
  3. FOLLOWING WATERLINE COMPLETION, REMOVE ACCESS RAMP AND RESTORE AREA TO ORIGINAL CONDITION TO SATISFACTION OF OWNER.

**ACCESS ROAD DETAIL**

NOT TO SCALE



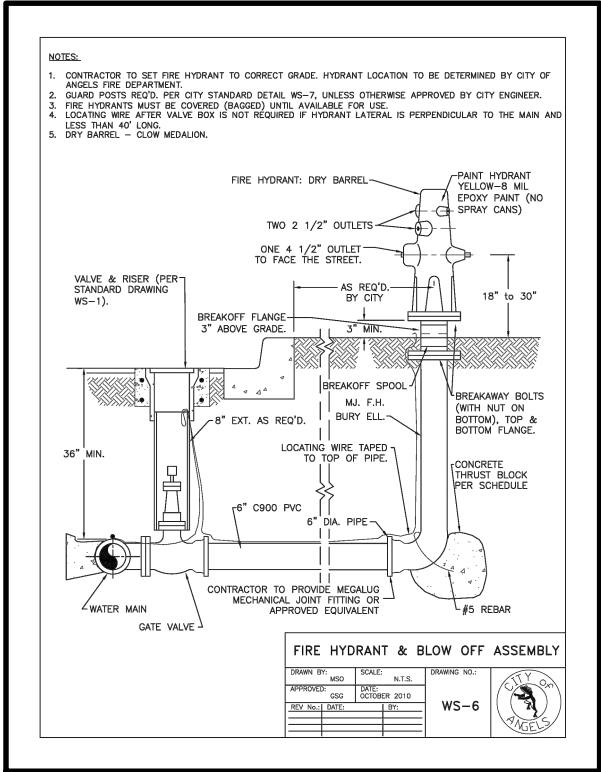
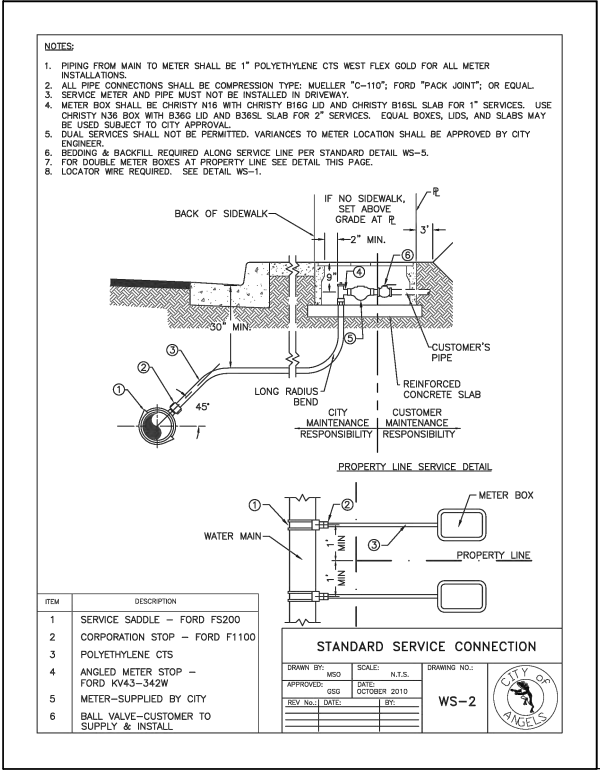
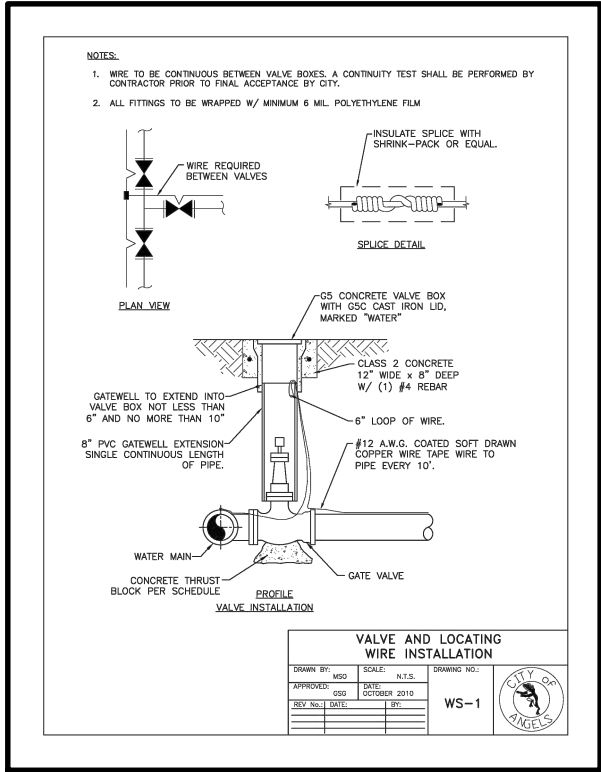
**EXISTING CONDITION OF PURDY ROAD**

SHEET No. 20TOTAL SHEETS 21

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337





CITY OF ANGELS - STANDARD DRAWING WS-1  
VALVE AND LOCATING WIRE INSTALLATION DETAIL

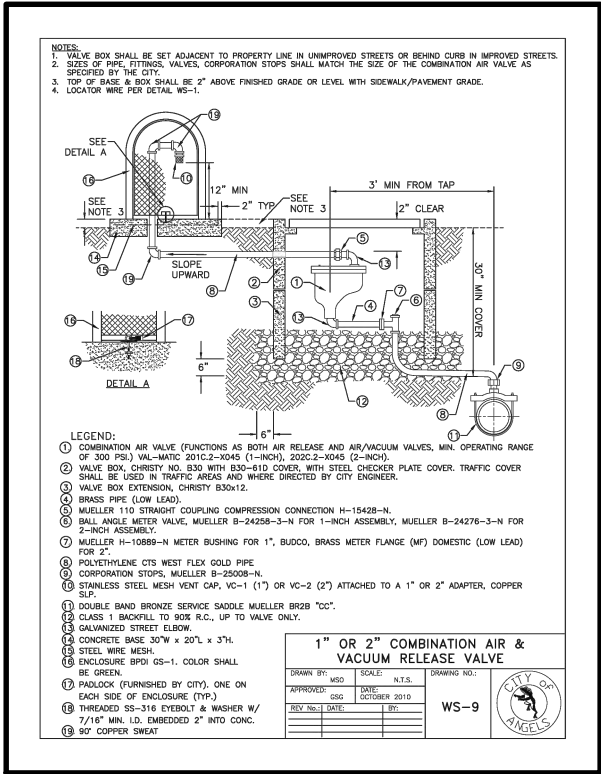
NOT TO SCALE

CITY OF ANGELS - STANDARD DRAWING WS-2  
STANDARD SERVICE CONNECTION DETAIL

NOT TO SCALE

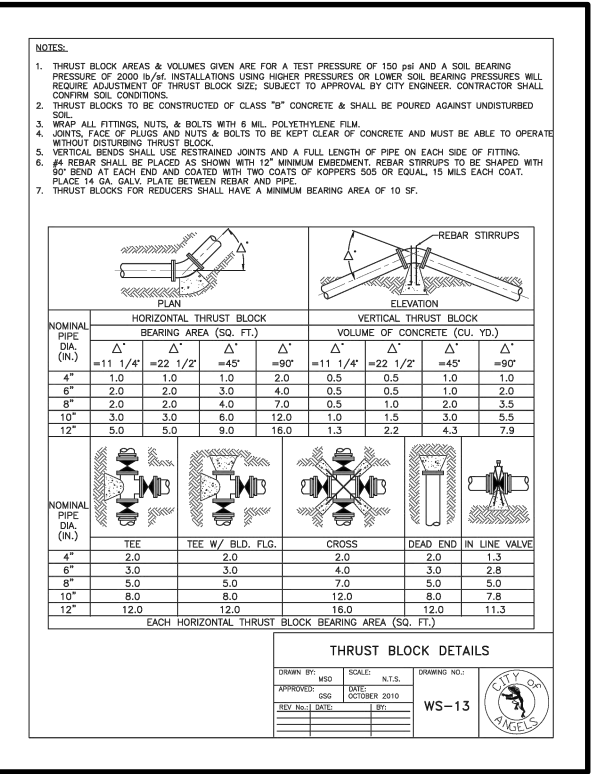
CITY OF ANGELS - STANDARD DRAWING WS-6  
FIRE HYDRANT & BLOW-OFF ASSEMBLY DETAIL

NOT TO SCALE



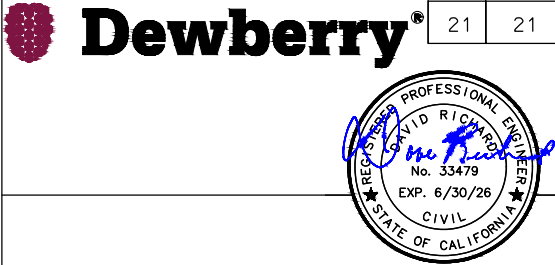
CITY OF ANGELS - STANDARD DRAWING WS-9  
AIR & VACUUM RELEASE VALVE DETAIL

NOT TO SCALE



CITY OF ANGELS - STANDARD DRAWING WS-13  
THRUST BLOCK DETAIL

NOT TO SCALE



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