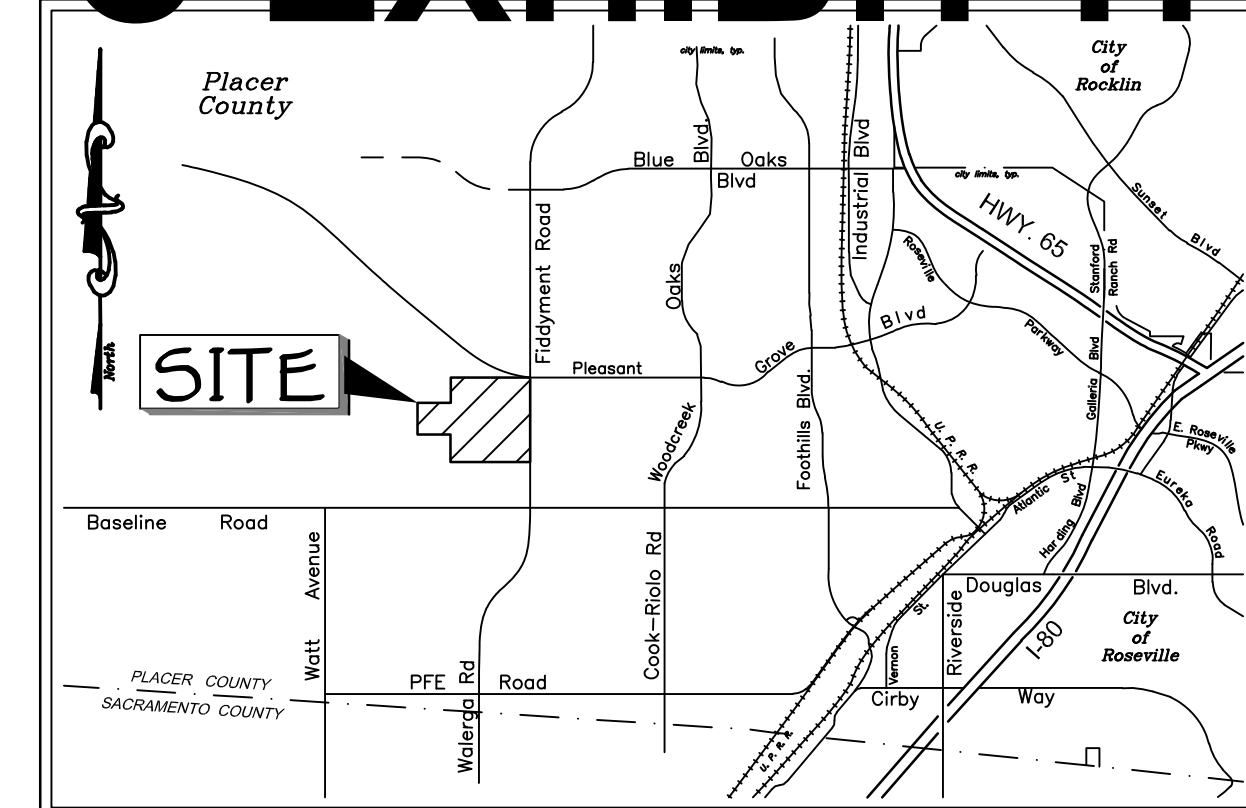


# MASS GRADING PLANS FOR SIERRA VISTA VILLAGE FD-10 CITY OF ROSEVILLE, CALIFORNIA

BAKER-WILLIAMS ENGINEERING GROUP  
SWRCB WDD # 5S31C382310

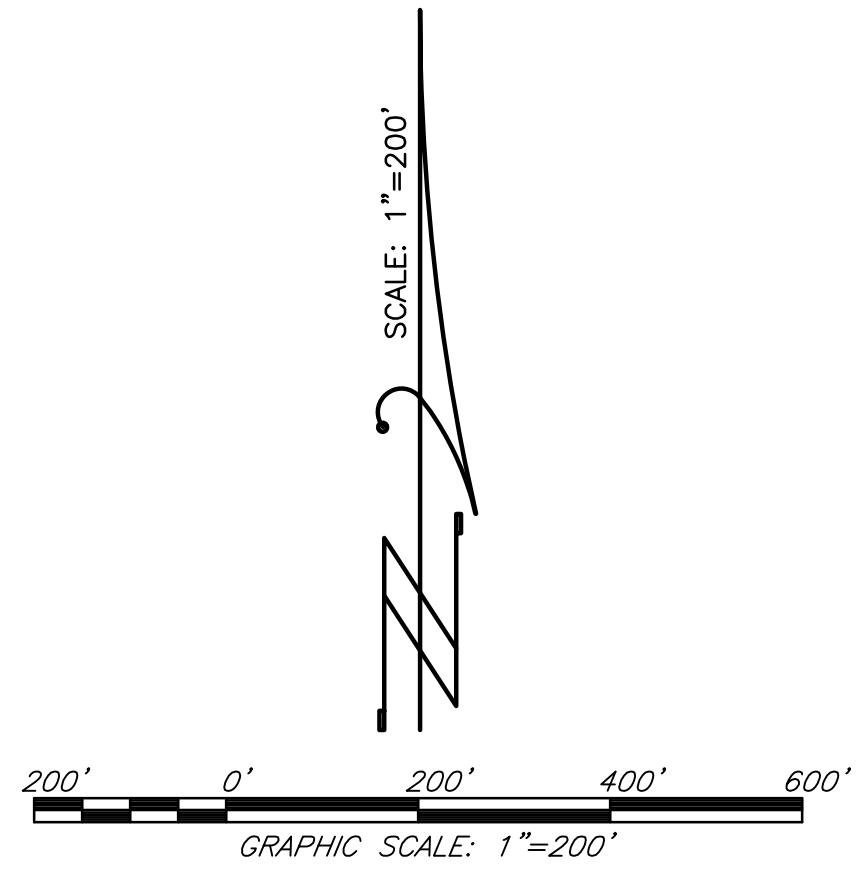


VICINITY MAP

**LIST OF ABBREVIATIONS:**

- AC ASPHALTIC CONCRETE
- AB AGGREGATE SUBBASE
- ANG. PT. ANGLE POINT
- ARV AIR RELEASE VALVE
- BB BOTTOM OF BERM
- BNDRY. BOUNDARY
- BO BLOW OFF VALVE
- BC BACK OF CURB
- BOW BACK OF WALK
- BRW BOTTOM OF RETAINING WALL
- BSW BOTTOM SOUND WALL
- BV - BVV BUTTERFLY VALVE
- BVC BEGIN VERTICAL CURVE
- BWV BACKWATER VALVE
- CAW CALIFORNIA AMERICAN WATER
- CH CHORD
- CL CLASS
- CLR. CLEAR
- CO CLEANOUT
- COMB. COMBINATION
- C/L CENTERLINE
- CONC. CONCRETE
- CONST. CONSTRUCT
- COTG CLEANOUT TO GRADE
- CR CURVE RETURN
- CSP CORRUGATED STEEL PIPE
- CT COURT
- CTS CORROSION TEST STATION
- C&G CURB AND GUTTER
- DEL DELTA
- DET DETAIL
- DIA. DIAMETER
- DI DROP INLET
- D.I.P. DUCTILE IRON PIPE
- DR DRIVE
- D/W DRIVEWAY
- (E) - EX. EXISTING
- ELEV. ELEVATION
- EP EDGE OF PAVEMENT
- ESMT EASEMENT
- EVC END VERTICAL CURVE
- EXIST. EXISTING
- FC FACE OF CURB
- FF FINISHED FLOOR ELEVATION
- FG FINISH GRADE
- FH FIRE HYDRANT
- F/L - FL FLOWLINE
- FO FIBER OPTIC
- FS FIRE SERVICE
- GALV. GALVANIZED
- GB GRADE BREAK
- G.I.P. GALVANIZED IRON PIPE
- GR GRATE
- GSL GRAVITY SEWER LIMITS
- GM GAS MAIN
- GV GATE VALVE
- HGL HYDRAULIC GRADE LINE
- HGLS HYDRAULIC GRADE LINE SLOPE
- HP HIGH POINT
- INV. INVERT
- I.P. IRON PIPE
- IRRI IRRIGATION
- INTX INTERSECTION
- JT JOINT TRENCH
- JP JOINT POLE
- LENTH LENGTH
- LF LINEAR FEET
- LN LANE
- LP LOW POINT
- LT LEFT
- MAX. MAXIMUM
- MH MANHOLE
- MIN. MINIMUM
- M MAIL BOX
- N.A.P.O.T.C. NOT A PART OF THIS CONTRACT
- NG NATURAL GROUND
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- PAC. BELL PACIFIC TELEPHONE
- PG PAD GRADE
- P.G.&E. PACIFIC GAS AND ELECTRIC
- PVI POINT OF VERTICAL INTERSECTION
- P/L PROPERTY LINE
- PRC POINT OF REVERSE CURVE
- PR-PROP. PROPOSED
- P.S.I. POUNDS per SQUARE INCH
- PT POINT
- PVC POLYVINYL CHLORIDE PIPE
- R. RADIUS
- RCP REINFORCED CONCRETE PIPE
- RD ROAD OR ROOF DRAIN
- RL RESTRAINED LENGTH
- RT RIGHT
- R/W RIGHT OF WAY
- RW RAW WATER
- S SLOPE
- SD - (D) STORM DRAIN
- SHGL SLOPE HYDRAULIC GRADE LINE
- SMUD SACRAMENTO MUNICIPAL UTILITY DISTRICT
- S.O. SIDE OPENING
- SPMUD SOUTH PLACER MUNICIPAL UTILITY DISTRICT
- SS - (S) SANITARY SEWER
- ST STREET
- STA. STATION
- SUBD. SUBDIVISION
- TBC TOP BACK OF CURB
- TC TOP CURB
- TRW TOP OF RETAINING WALL
- TSW TOP SOUND WALL
- TWM TOP OF WATER MAIN
- TW TOP OF WALK
- T TRANSFORMER
- TP TOP OF PAVEMENT
- TYP. TYPICAL
- VC VERTICAL CURVE
- W WATER
- W/ WITH
- WM WATER MAIN
- WS WATER SERVICE
- WV WATER VALVE
- YD YARD DRAIN

**POTHOLE NOTE:**  
PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES THE CONTRACTOR SHALL POTHOLE THE EXISTING DRY UTILITIES FOR VERIFICATION OF LOCATION AND DEPTH. POTHOLE INFORMATION SHALL BE PROVIDED TO ENGINEER FOR DETERMINATION OF ADEQUATE SEPARATION AND CLEARANCE

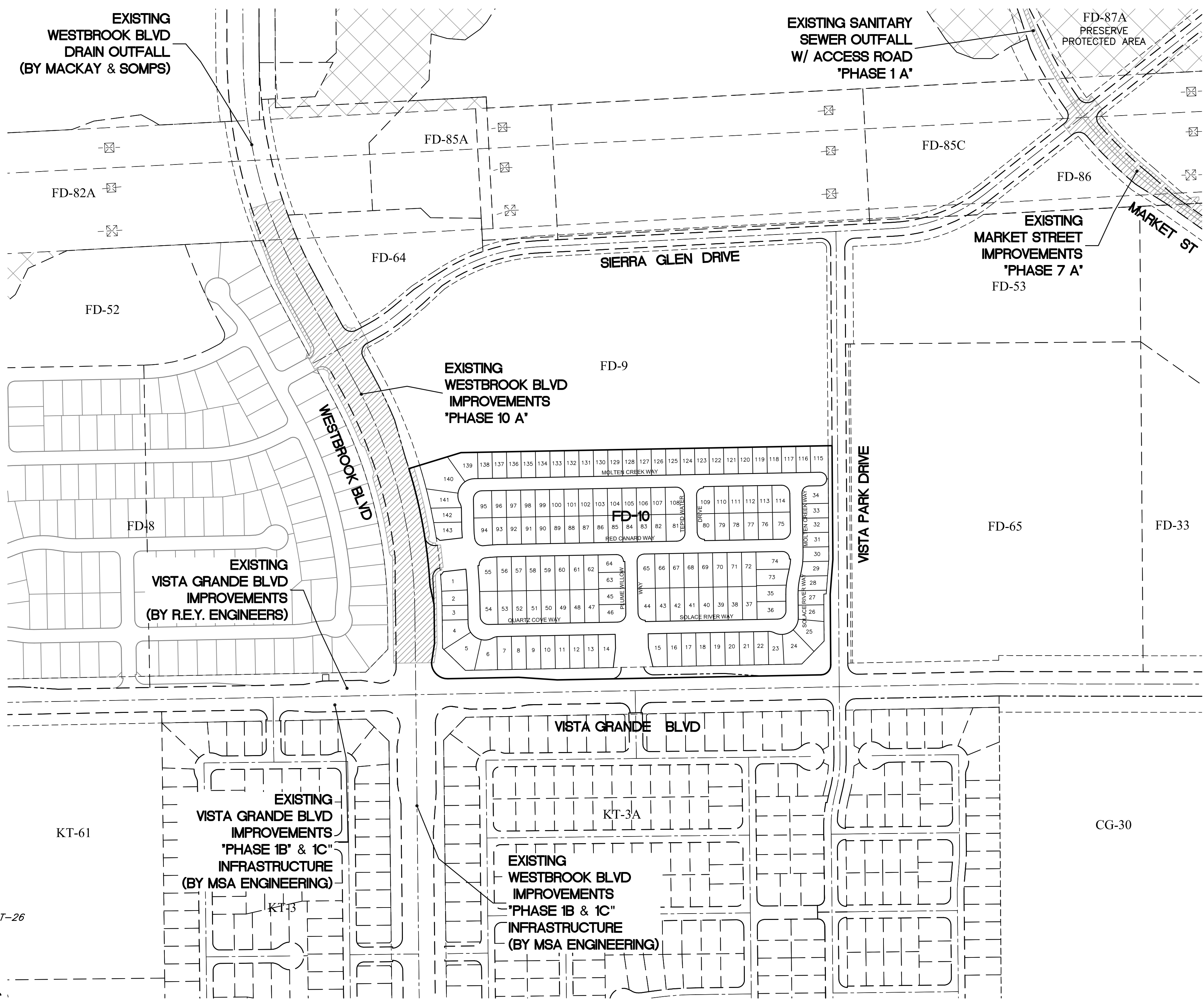


**LEGEND:**

- PROP. SANITARY SEWER MAIN
- EXIST. SANITARY SEWER MAIN
- PROP. FLUSHER BRANCH
- EXIST. FLUSHER BRANCH
- PROP. SEWER SERVICE
- EXIST. SEWER SERVICE
- PROP. MANHOLE
- EXIST. MANHOLE
- PROP. STORM DRAIN
- EXIST. STORM DRAIN
- PROP. DROP INLET
- EXIST. DROP INLET
- PROP. WATER MAIN
- EXIST. WATER MAIN
- PROP. WATER SERVICE
- EXIST. WATER SERVICE
- PROP. WATER VALVE
- EXIST. WATER VALVE
- PROP. BLOW-OFF VALVE
- EXIST. BLOW-OFF VALVE
- PROP. FIRE HYDRANT ASSEMBLY
- EXIST. FIRE HYDRANT ASSEMBLY
- PROP. STREET LIGHT
- EXIST. STREET LIGHT
- PROP. STREET BARRICADE
- EXIST. STREET BARRICADE
- PROP. HANDICAP RAMP PER CST ST-26
- PROP. STREET SIGN
- MONUMENT WELL PER CST ST-36

**PROJECT CONSTRUCTION HOURS**  
IN ACCORDANCE WITH THE CITY'S NOISE ORDINANCE, THE HOURS OF PROJECT CONSTRUCTION SHALL BE LIMITED TO THE FOLLOWING:  
7:00 AM TO 7:00 PM (MONDAY THROUGH FRIDAY)  
8:00 AM TO 8:00 PM (SATURDAY, SUNDAY & HOLIDAYS)

**ELEVATION DATUM NOTE:**  
ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NGVD 1929 DATUM.



EARTHWORK QUANTITIES		
59,562	43,273	16,289
CUT	FILL	EXPORT TO FD-52

**SHEET INDEX:**

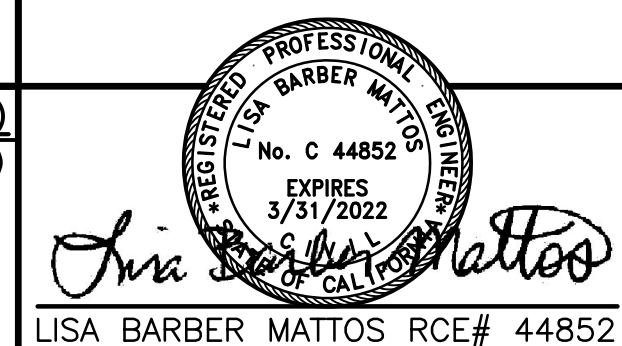
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2. GENERAL NOTES
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4. STREET SECTIONS & DETAILS
5. GRADING SECTIONS & DETAILS
6. GRADING PLAN
7. GRADING PLAN
8. GRADING PLAN - FD-52 STOCKPILE AREA
9. EROSION & SEDIMENT CONTROL DETAILS & HAUL ROUTE PLAN
10. EROSION & SEDIMENT CONTROL & HYDROSEED NOTES
11. MMRP NOTES

UTILITY REPRESENTATIVES		
UTILITY	REPRESENTATIVE	PHONE NO.
CABLE T.V. COMCAST	MARK DUBY	(916) 648-8310
U.S.A.		(800) 642-2444
GAS P.G.& E.	SUSAN SMITH	(530) 889-3261
ELECTRICITY ROSEVILLE ELECTRIC DEPT.	JOSEPH MCKINNEY	(916) 774-5691
TELEPHONE SUREWEST	LOU MULLIKIN	(916) 786-1202
WATER ROSEVILLE ENVIRONMENTAL UTILITIES DEPT.	SEAN BIGLEY	(916) 774-5750
SEWER ROSEVILLE ENVIRONMENTAL UTILITIES DEPT.	KEN GLOTZBACH	(916) 774-5750
DRAINAGE DEVELOPMENT SERVICE ENGINEERING	ENGINEERING	(916) 774-5339
FIRE ROSEVILLE FIRE DEPT.	JASON RIZZI	(916) 774-5802

GEOTECHNICAL REVIEW	
YOUNGDAHL CONSULTING GROUP, PROJECT NO. 13171-00, SEPTEMBER 2013	
APPROVED BY: BRANDON SHIMIZU, GE 02712	DATE
CITY OF ROSEVILLE DEPT. OF DEVELOPMENT SERVICES	
APPROVED BY: CITY ENGINEER	DATE
ROSEVILLE PLANNING PROJECT NO. PL 20-0119	
DATE IMPROVEMENT COMPLETED:	

NO.	DESCRIPTION	ENGR. INIT.	CITY APPROVAL

benchmark CTY BM-71 elev.122.34(NGVD29)  
3-1/2" BRASS DISC elev.124.48(NAVD88)  
STAMPED "2018 PLS B278" AT BACK OF CURB AND WEST OF D.I., NORTH SIDE OF PLEASANT GROVE BLVD. @ 900' EAST OF FIDDYDENT ROAD.



PLLOT DATE: 01-22-21  
SCALE: horiz: 1"=200', vert: N/A  
drafted by: R.E. designed by: L.B.M. checked by: S.F.L.  
1/2021 609  
date field book

**BW BAKER-WILLIAMS ENGINEERING GROUP**  
Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services  
6020 Rutland Drive, Suite 19 - Carmichael, CA. 95608  
(916) 331-4336 ~ fax (916) 331-4430 ~ office@bwiengineers.com

**COVER SHEET**

## SIERRA VISTA VILLAGE FD-10 - MASS GRADE

CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

SHEET 1 OF 11 SHEETS  
20-06-24 JOB NUMBER

S:\BVEG\Jobs\2020\06-06-2024 Sierra Vista FD-10, Phase 1\Improvement Plans\Mass Grading\Plan\2006024-MG-CVR-SHT.dwg, Layout: 1, 1/25/2021 4:36:40 PM, RJE

SIERRA VISTA VILLAGE FD-10 - MASS GRADING PLANS - 2006024-MG-CVR-SHT

**CITY OF ROSEVILLE  
PUBLIC IMPROVEMENTS REQUIREMENTS  
GENERAL**

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS AND THE LATEST EDITION AND AMENDMENTS OF THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.
- THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL SYSTEM. THE CONTRACTORS SHALL NOTIFY THE U.S.A. CENTER 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING 1-800-227-2600.
- THE CONTRACTOR SHALL MARK IN WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING U.S.A. ANY AREAS NOT MARKED WILL NOT BE SUBJECT TO U.S.A., AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM EXCAVATION.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION OF THE NEW IMPROVEMENTS CONNECTING TO OR IN THE VICINITY OF THE SAME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS ON THE JOB SITE.
- THE CONTRACTOR SHALL PLACE BOXED SURVEY MONUMENTS WITH 1-1/2" BRONZE HEAD SET IN CONCRETE (STD. DWG. ST-36) AT LOCATIONS SHOWN ON THESE PLANS.
- A.C. SURFACE SHALL BE CUT TO A NEAT, STRAIGHT LINE PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED, AND RESEALED PRIOR TO PAVING.
- ANY EXISTING CONCRETE SURFACE TO BE REMOVED SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN THAT SHALL BE APPROVED BY THE CITY OF ROSEVILLE PUBLIC WORKS TRAFFIC ENGINEERING DIVISION BEFORE START OF WORK IN RIGHT-OF-WAY AND SHALL BE IN ACCORDANCE WITH CALIFORNIA MUTCD LATEST EDITION. AT LEAST ONE LANE IN EACH DIRECTION SHALL REMAIN OPEN TO TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLANS. TRAFFIC CONTROL HOURS ARE SUBJECT TO LIMITATION BY THE CITY. TRAFFIC CONTROL WITH LANE CLOSURES THAT AFFECT TRAFFIC FLOW MAY REQUIRE NIGHT WORK. IF, AS A PART OF TRAFFIC CONTROL MEASURES, A ROADWAY CLOSURE HAS BEEN APPROVED, THE CONTRACTOR SHALL NOTIFY ENGINEERING DIVISION 72 HOURS IN ADVANCE OF SETTING UP THIS CLOSURE.
- CURB RAMPS CONFORMING TO ALL ADA AND TITLE 24 REQUIREMENTS SHALL BE PLACED AT ALL NEW STANDARD CURB RETURNS (STANDARD DRAWING ST-27) AND STANDARD TYPE A-7 DRIVEWAYS. WHERE EXISTING RAMPS DO NOT MEET CURRENT ADA AND TITLE 24 REQUIREMENTS, THE RAMPS SHALL BE UPGRADED IN CONFORMANCE WITH MINIMUM TITLE 24 REQUIREMENTS. WHERE EXISTING RAMPS DO NOT INCLUDE DETECTABLE WARNING PANELS (TRUNCATED DOMES), PANELS SHALL BE RETROFITTED PER THE CONSTRUCTION STANDARDS.
- DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK P.C.C. OR 2" THICK A.C.
- PRIOR TO THE NOTICE OF COMPLETION ON ALL SINGLE-FAMILY RESIDENTIAL SUBDIVISIONS, THE DEVELOPER SHALL SUBMIT A LETTER FROM THE POST OFFICE STATING THAT ITS REQUIREMENTS FOR MAILBOX CLUSTER PADS HAVE BEEN SATISFIED.
- ALL UNDERGROUND UTILITIES WITHIN EXISTING OR PROPOSED CITY OF ROSEVILLE EASEMENTS SHALL REQUIRE A MINIMUM OF 90% COMPACTION ON THE TRENCH BACKFILL. COMPACTION OF BACKFILL BY JETTING IS NOT PERMITTED IN CITY OF ROSEVILLE RIGHT OF WAY AREAS OR WITHIN DEDICATED RECLAIMED WATER, STORM, SEWER OR WATER EASEMENTS AND MAINS.
- THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ONE WEEK PRIOR TO STARTING WORK. MEMBERS OF THE CITY OF ROSEVILLE ENGINEERING DIVISION, PLANNING DEPARTMENT, ENVIRONMENTAL UTILITIES DEPARTMENT AND ALL OTHER UTILITY REPRESENTATIVES SHALL BE NOTIFIED BY THE CONTRACTOR AS TO THE DATE AND LOCATION OF THE MEETING.
- PRIOR TO EXCAVATION OF TRENCHES 5 FEET OR DEEPER, THE CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT OR ENVIRONMENTAL UTILITIES DEPARTMENT INSPECTOR A COPY OF THE COMPANY'S ANNUAL CALOSHA TRENCHING PERMIT AND A COPY OF THE COMPANY'S LETTER INFORMING CALOSHA OF THE TIME THE TRENCHING IS COMMENCING AND THE LOCATION OF THE WORK.
- ALL PAINTED TRAFFIC STRIPES, ARROWS, AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED WITH THERMOPLASTIC MATERIAL TO THE SPECIFICATIONS SET FORTH IN CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION. NON-REFLECTIVE PAVEMENT MARKERS SHALL CONSIST OF CERAMIC MARKERS ONLY CONFORMING TO CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION.
- THE DEVELOPERS CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT EXISTING SITE AND ADJACENT IMPROVEMENTS FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR MAKE REPLACEMENT OF ALL CRACKED AND OTHERWISE PRE-EXISTING DAMAGED PUBLIC IMPROVEMENTS ALONG THE FRONTAGE OF THE PROJECT SITE AND ANY DAMAGE RESULTING FROM CONSTRUCTION TO CURRENT CITY STANDARDS AND AT THEIR OWN EXPENSE. THE EXTENT OF THE REPAIRS SHALL BE DETERMINED BY THE PUBLIC WORKS INSPECTOR AND SHALL BE COMPLETED PRIOR TO THE CITY ACCEPTANCE OF THE IMPROVEMENTS.
- WHERE COMBINATIONS OF SIDEWALK OR CURB AND GUTTER ARE POURED CONTIGUOUS TO EXISTING, ALL ADJOINING EXISTING CONCRETE VERTICAL FACES SHALL BE DOWELED. ALL ABUTTING SIDEWALK ENDS SHALL BE DOWELED MID-SECTION VERTICALLY WITH TWO DOWELS FOR FOUR THROUGH SIX-FOOT WIDE SIDEWALK AND THREE DOWELS FOR WIDER SIDEWALK. ABUTTING CURB AND GUTTER ENDS SHALL BE DOWELED TWICE, 18 INCHES APART AT GUTTER PAN MID-SECTION. DOWEL CONNECTIONS OF LONGITUDINAL RUNS OF SIDEWALK TO BACK OF CURB SHALL BE THREE FEET ON CENTER. ALL DOWELS SHALL BE 16 INCHES LONG, GRADE 60; #4 REBAR PENETRATING FOUR INCHES. THE DOWEL HOLE SHALL BE 5/8-INCH DIAMETER AT A SLIGHT HORIZONTAL ANGLE FROM PERPENDICULAR. THE PENETRATING PORTION OF THE DOWEL AND THE ENTIRE (CLEANED) VERTICAL SURFACE OF THE ADJOINING, EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH STATE STANDARD TWO-PART EPOXY.
- WHEN SAWCUTTING WITHIN THE STREET FOR TRENCHING OR OTHER PURPOSES, CONTRACTOR SHALL GRIND 1-1/2" OF PAVEMENT BETWEEN THE LANE LINES (FROM LANE STRIPE TO LANE STRIPE) UPON COMPLETION OF THE SAWCUTTING AND OR TRENCHING WORK. WHERE THE SAWCUTTING OCCURS BETWEEN THE CURB AND GUTTER AND NEAREST LANE STRIPE (INCLUDING BIKE LANES), THE SAME 1-1/2" GRIND SHALL BE REQUIRED. CONTRACTOR TO PLACE A PETROMAT FABRIC OR APPROVED EQUAL BY THE CITY OF ROSEVILLE AND OVERLAY FROM LANE STRIPE TO LANE STRIPE, OR CURB TO LANE STRIPE AND RESTRIPE OR REPLACE ANY DELINEATORS REMOVED DURING THE GRIND.
- ALL PUBLICLY MAINTAINED STORM DRAIN ON PRIVATE PROPERTY SHALL BE A MINIMUM OF 12 INCHES IN DIAMETER AND SHALL BE RCP CL IV, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- FOR RESIDENTIAL SUBDIVISIONS, UNLESS OTHERWISE APPROVED BY ENGINEERING, THE FINAL GRADING OF THE PROJECT SITE SHALL BE CONSTRUCTED TO ACCOMMODATE A MAXIMUM DRIVEWAY SLOPE OF 14% FOR EACH RESIDENTIAL LOT, AS MEASURED FROM THE BACK OF THE SIDEWALK TO THE GARAGE (20-FT SETBACK). IT WILL REMAIN THE RESPONSIBILITY OF THE BUILDERS/DEVELOPER TO DESIGN A HOUSE THAT PROVIDES SUITABLE ACCESS TO THE PARCEL.
- THE CONTRACTOR SHALL PLACE FILTER FABRIC BETWEEN THE INITIAL BEDDING AND BACKFILL AND THE TRENCH BACKFILL FOR SANITARY SEWERS DEPTH GREATER THAN 15 FEET MEASURED TO THE PIPE INVERT.

**GRADING:**

- GRADING SHALL CONFORM TO APPENDIX CHAPTER 33 UBC, LATEST EDITION, AND TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT BY YOUNGDAHL CONSULTING GROUP FILE NO. 13171 (UPDATED 1/2020) (ENGINEERING DIV. FILE NO. 308-920)
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT OR AS DETERMINED BY THE CITY INSPECTOR. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THE SWPPP PLAN.
- LOTS SHALL BE GRADED WITH A CONSTANT SLOPE ALONG THE FRONTAGE OF THE RIGHT-OF-WAY FROM BUILDING SETBACK LINE TO BACK OF SIDEWALK. ALL TEMPORARY AND PERMANENT SLOPES STEEPER THAN 4:1 ALONG THIS FRONTAGE SHALL HAVE EROSION NETTING INSTALLED.
- ALL REAR LOT CORNER ELEVATIONS SHALL BE EQUAL TO OR GREATER THAN THE HIGHEST ADJACENT PAD GRADE UNLESS SPECIFICALLY SHOWN ON THESE PLANS AND APPROVED BY ENGINEERING DIVISION.
- NON-POTABLE WATER SHALL BE SPRAYED ON ALL EXPOSED EARTH SURFACES DURING CLEARING GRADING, EARTH MOVING, AND OTHER SITE PREPARATION ACTIVITIES. THE EXPOSED EARTH SHALL BE WATERED THROUGHOUT THE DAY TO MINIMIZE DUST.
- TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.
- THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.
- ADJACENT STREET FRONTAGES SHALL BE SWEEP AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. REFER TO SCHEDULES WITHIN SWPPP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. REFER TO SWPPP FOR SPECIFIC REQUIREMENTS.
- CONSTRUCTION SHALL STOP IF CULTURAL RESOURCES ARE SUSPECTED. IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBSCURED SURFACE EVIDENCE OF CULTURAL RESOURCES. IF SIGNS OF AN ARCHEOLOGICAL SITE, SUCH AS ANY UNUSUAL AMOUNTS OF STONE, BONE, OR SHELL, ARE UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FEET OF THE FIND AND THE ROSEVILLE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE NOTIFIED. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. THE ARCHEOLOGIST MAY REQUIRE ADDITIONAL MITIGATION.
- SHOULD GRADING OPERATIONS UNCOVER HAZARDOUS MATERIALS, OR WHAT APPEARS TO BE HAZARDOUS MATERIALS, THE FIRE DEPARTMENT SHALL BE CONTACTED IMMEDIATELY AT (916) 774-5820. THE AREA, WHICH CONTAINS THE HAZARDOUS MATERIALS, SHALL BE MARKED OFF UNTIL AN INVESTIGATION BY A MEMBER OF THE FIRE DEPARTMENT IS CONDUCTED.
- GRADES SHOWN OUTSIDE OF THE PUBLIC RIGHT OF WAY WITHIN THE APPROVED GRADING PLAN ARE SUBJECT TO FURTHER REVIEW AND MODIFICATION BY THE BUILDING DIVISION FOR COMPLIANCE WITH THE UNIFORM BUILDING CODE AND STATE OF CALIFORNIA TITLE 24 HANDICAP ACCESSIBILITY REQUIREMENTS.
- THE CONTRACTOR/DEVELOPER IS EXPECTED TO COMPLY WITH THE FUGITIVE DUST CONTROL REQUIREMENTS FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT: [WWW.PLACER.CA.GOV/APCD](http://www.placer.ca.gov/apcd)
- CONTAMINATED SOIL - DEVELOPER AGREES TO PROPERLY ADHERE TO ALL THEN CURRENT STATE AND FEDERAL REQUIREMENTS WHEN ANY EVIDENCE OF TOXIC, HAZARDOUS OR CONTAMINATED SOILS ARE ENCOUNTERED DURING ANY AND ALL EXCAVATION OR GRADING OPERATIONS, AND TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CITY OR ROSEVILLE, ITS OFFICERS, AGENTS AND EMPLOYEES, FROM ANY AND ALL LIABILITY, COSTS, CLAIMS, FEES, FINES, PENALTIES AND CLAIMS OF OR DAMAGE OF ANY TYPE WHATSOEVER. EXTRA COSTS FOR REMEDIATION AND/OR REMOVAL OF SOIL SHALL BE BOURN SOLELY BY THE DEVELOPER. THE PARTIES INTEND THAT THIS PROVISION BE BROADLY CONSTRUED.

**AIR QUALITY:**

- THE FOLLOWING NOTES ARE PROVIDED AS REFERENCE TO APPLICABLE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT ADOPTED RULES AND REGULATIONS. COMPLIANCE WITH ALL APPLICABLE APCD RULES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. AIR QUALITY RULES ARE ENFORCED SOLELY BY THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT.
- CONSTRUCTION EQUIPMENT EXHAUST EMISSIONS SHALL NOT EXCEED PLACER COUNTY APCD RULE 202 VISIBLE EMISSION LIMITATIONS. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS ARE TO BE IMMEDIATELY NOTIFIED BY APCD TO CEASE OPERATIONS AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. (BASED ON APCD RULE 202)
  - THE CONTRACTOR SHALL SUSPEND ALL GRADING OPERATIONS WHEN FUGITIVE DUST EXCEEDS PLACER COUNTY APCD RULE 228 (FUGITIVE DUST) LIMITATIONS. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN INDIVIDUAL WHO IS CARB-CERTIFIED TO PERFORM VISIBLE EMISSIONS EVALUATIONS (VEE). THIS INDIVIDUAL SHALL EVALUATE COMPLIANCE WITH RULE 228 ON A WEEKLY BASIS. IT IS TO BE NOTED THAT FUGITIVE DUST IS NOT TO EXCEED 40% OPACITY AND NOT GO BEYOND THE PROPERTY BOUNDARY AT ANY TIME. LIME OR OTHER DRYING AGENTS UTILIZED TO DRY OUT WET GRADING AREAS SHALL NOT EXCEED PLACER COUNTY APCD RULE 228 FUGITIVE DUST LIMITATIONS. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS WILL BE NOTIFIED BY APCD AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. ALL PROJECTS IN EXCESS OF 5 ACRES SHALL HAVE AN APPROVED DUST CONTROL PLAN FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. (BASED ON APCD RULE 228)
  - DURING CONSTRUCTION, TRAFFIC SPEEDS ON ALL UNPAVED SURFACES SHALL BE LIMITED TO 15 MILES PER HOUR OR LESS. (BASED ON APCD RULE 228 / SECTION 401.2)
  - DURING CONSTRUCTION, NO OPEN BURNING OF REMOVED VEGETATION SHALL BE ALLOWED UNLESS PERMITTED BY THE PCAPCD. ALL REMOVED VEGETATIVE MATERIAL SHALL BE EITHER CHIPPED ON SITE OR TAKEN TO AN APPROPRIATE RECYCLING SITE, OR IF A SITE IS NOT AVAILABLE, A LICENSED DISPOSAL SITE. (BASED ON APCD RULE 310)
  - A PERSON SHALL NOT DISCHARGE INTO THE ATMOSPHERE VOLATILE ORGANIC COMPOUNDS (VOC'S) CAUSED BY THE USE OR MANUFACTURE OF CUTBACK OR EMULSIFIED ASPHALTS FOR PAVING, ROAD CONSTRUCTION OR ROAD MAINTENANCE, UNLESS SUCH MANUFACTURE OR USE COMPLIES WITH THE PROVISIONS RULE 217. (BASED ON APCD RULE 217).
  - PROCESSES THAT DISCHARGE 2 POUNDS PER DAY OR MORE OF AIR CONTAMINANTS, AS DEFINED BY HEALTH AND SAFETY CODE SECTION 39013, TO THE ATMOSPHERE MAY REQUIRE A PERMIT. PERMITS MAY BE REQUIRED FOR BOTH CONSTRUCTION AND OPERATION. DEVELOPERS/CONTRACTORS SHOULD CONTACT THE DISTRICT PRIOR TO CONSTRUCTION AND OBTAIN ANY NECESSARY PERMITS PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. (BASED ON THE CALIFORNIA HEALTH & SAFETY CODE SECTION 39013: [HTTP://WWW.CDPH.CA.GOV/CCI/BINDISPLAYCODE?SECTION=HSC&GROUP=39001-4000&FILE=39010-39060](http://www.cdph.ca.gov/CCI/BINDISPLAYCODE?SECTION=HSC&GROUP=39001-4000&FILE=39010-39060))

**PRESERVE AREA:**

THE PRE-CONSTRUCTION MEETING SHALL ADDRESS THE PRESENCE OF THE PRESERVE, THE SENSITIVE HABITATS PRESENT AND MINIMIZATION OF DISTURBANCE TO THE PRESERVE. DURING GRADING AND CONSTRUCTION, THE PRESERVE AREA SHALL BE AVOIDED AND SHALL NOT BE USED FOR PARKING, STORAGE, OR PROJECT STAGING. THE CONTRACTOR SHALL REMOVE ALL TRASH BLOWN INTO THE PRESERVE FROM ADJACENT CONSTRUCTION ON A DAILY BASIS. AFTER CONSTRUCTION IS COMPLETE, THE TEMPORARY FENCING SHALL BE REMOVED FROM THE PRESERVE, ALONG WITH ALL TEMPORARY EROSION CONTROL MEASURES (E.G., STRAW BALES, STRAW WADDLES AND STAKES, SILT FENCING).

NO.	DESCRIPTION	ENGR INIT	CITY APPROVAL APPROVED BY DATE	benchmark CTY BM-71 elev.122.34(NVD29) elev.124.48(NAVD88)

PROFESSIONAL SEAL  
LISA BARBER MATTOS RCE# 44852  
REGISTERED PROFESSIONAL ENGINEER  
No. C 44852  
EXPIRES 3/31/2022

PLOT DATE: 01-22-21	SCALE horiz: N/A vert: N/A 1/2021 date	drafted by: R.E. designed by: L.B.M. checked by: S.F.L. 609 field book
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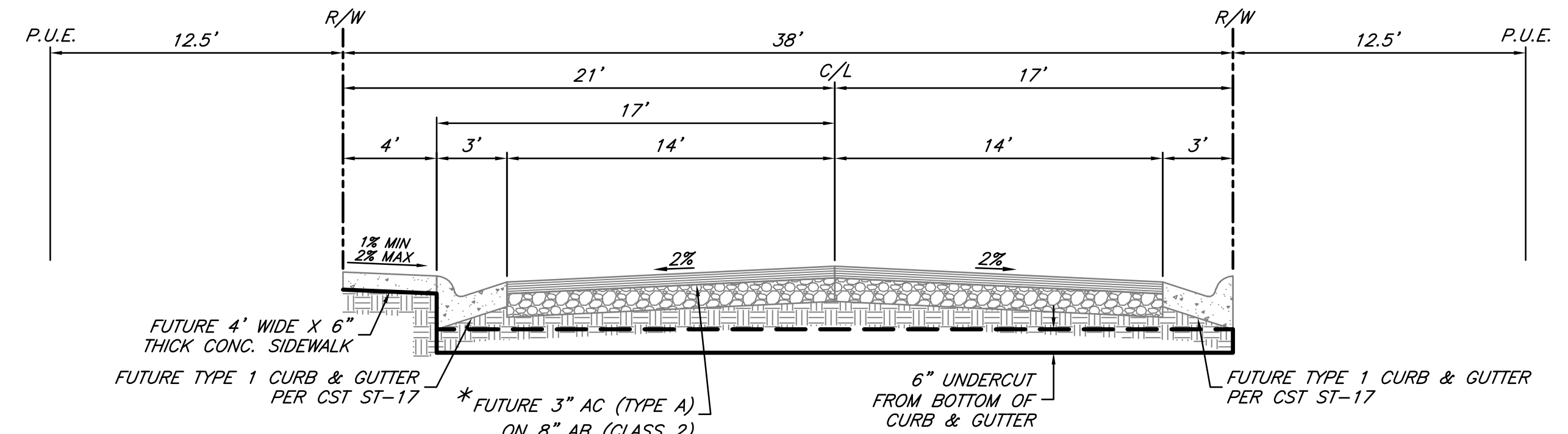
**BW BAKER-WILLIAMS ENGINEERING GROUP**  
Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services  
6020 Rutland Drive, Suite 19 - Carmichael, CA. 95608  
(916) 331-4336 ~ fax (916) 331-4430 ~ office@bwengineers.com

**GENERAL NOTES**  
**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

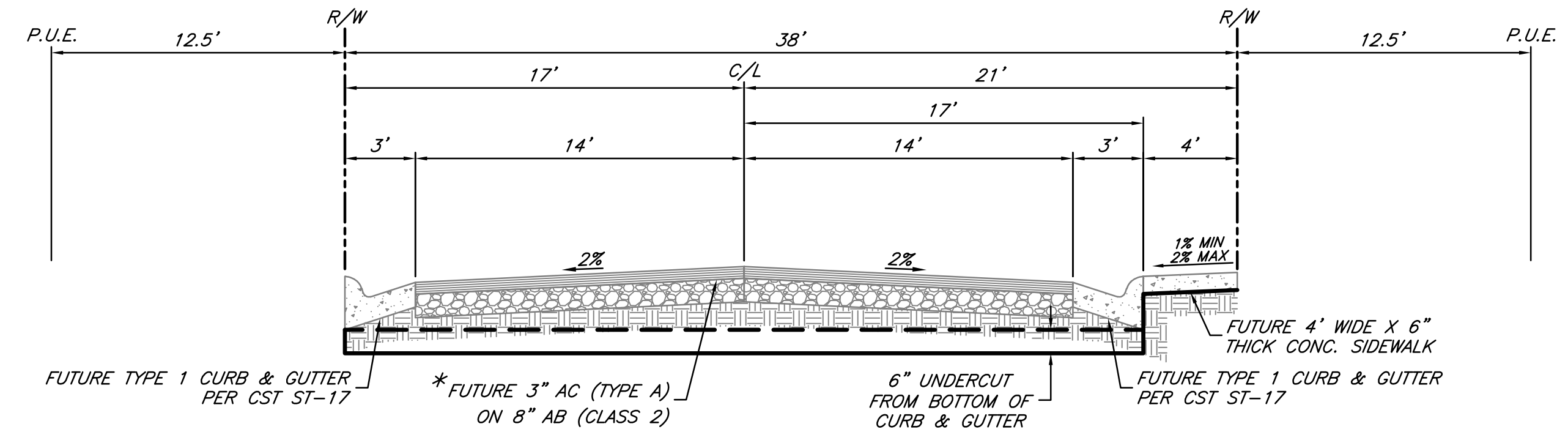
SHEET 2 OF 11 SHEETS 20-06-24 JOB NUMBER
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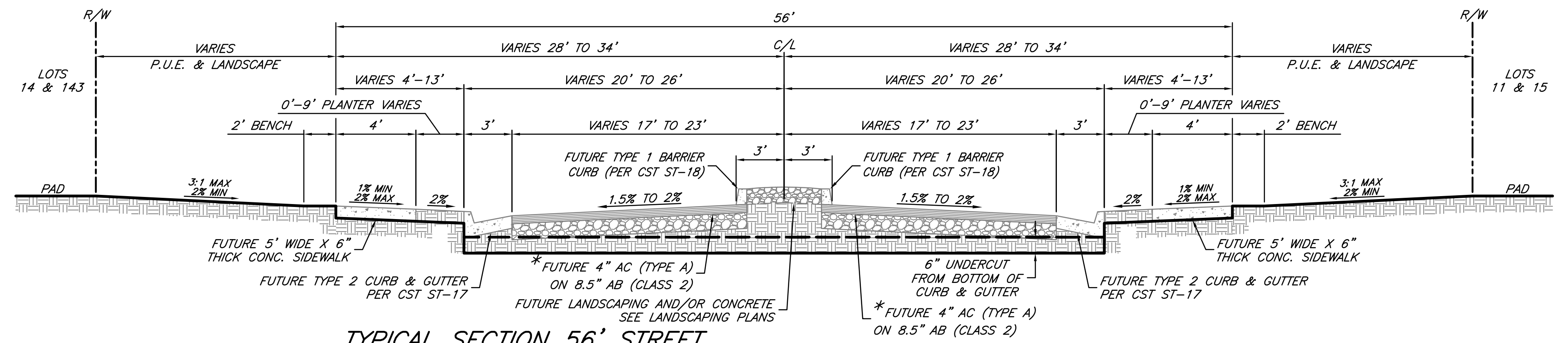
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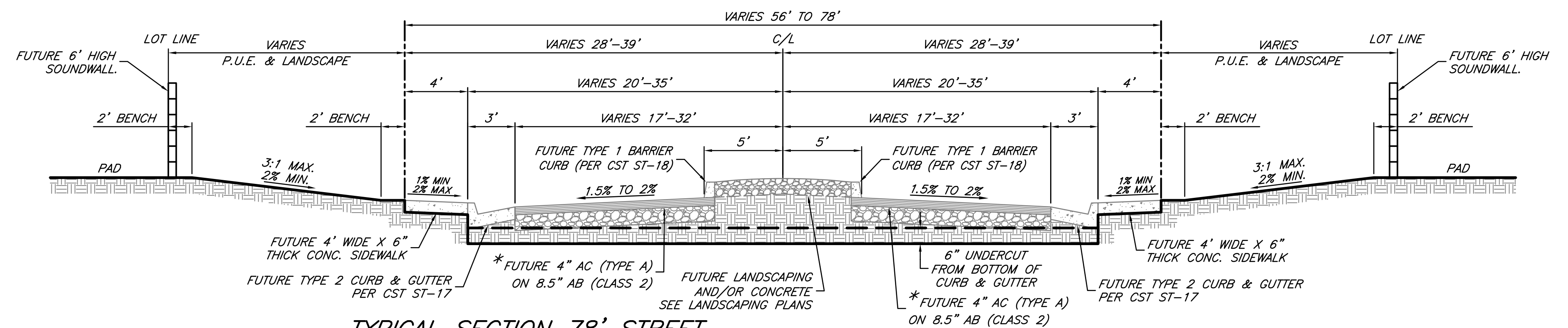
**TYPICAL SECTION 38' STREET**  
 T.I.=6 R VALUE=35  
 MOLTEN CREEK WAY - STA.1+00 TO STA.14+04.81  
 NO SCALE



**TYPICAL SECTION 38' STREET**  
 T.I.=6 R VALUE=35  
 RED CANARD WAY - STA.2+55.00 TO STA.12+97.78  
 QUARTZ COVE WAY - STA.1+00.00 TO STA.17+78.11  
 TEPID WATER DRIVE - STA.1+00.00 TO STA.3+02.00  
 PLUME WILLOW WAY - STA.2+97.00 TO STA.5+02.00  
 NO SCALE



**TYPICAL SECTION 56' STREET**  
 T.I.=7 R VALUE=35  
 RED CANARD WAY - STA.2+42.18 TO STA.2+55.00  
 PLUME WILLOW WAY - STA.2+34.00 TO STA.2+97.00  
 NO SCALE

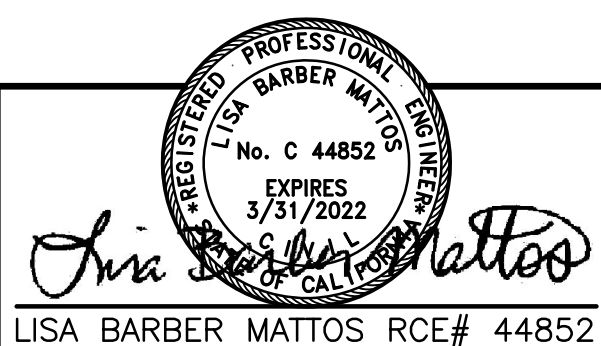


**TYPICAL SECTION 78' STREET**  
 T.I.=7 R VALUE=35  
 RED CANARD WAY - STA.1+94.63 TO STA.2+42.18  
 PLUME WILLOW WAY - STA.1+72.00 TO STA.2+34.00  
 NO SCALE

**\*NOTE:**  
 GEOTECHNICAL ENGINEER SHALL VERIFY R-VALUE AT SUBGRADE  
 AND RE-DESIGN STRUCTURAL SECTION AS REQUIRED.

NO.	DESCRIPTION	ENGR INIT	CITY APPROVAL APPROVED BY DATE

benchmark CTY BM-71 elev.122.34(NVD29)  
 elev.124.48(NVD88)  
 (SEE SHEET NO.1)



PLOT DATE: 01-22-21	SCALE horiz: N/A vert: N/A 1/2021 date	designed by: R.E. designed by: L.B.M. checked by: S.F.L. 609 field book
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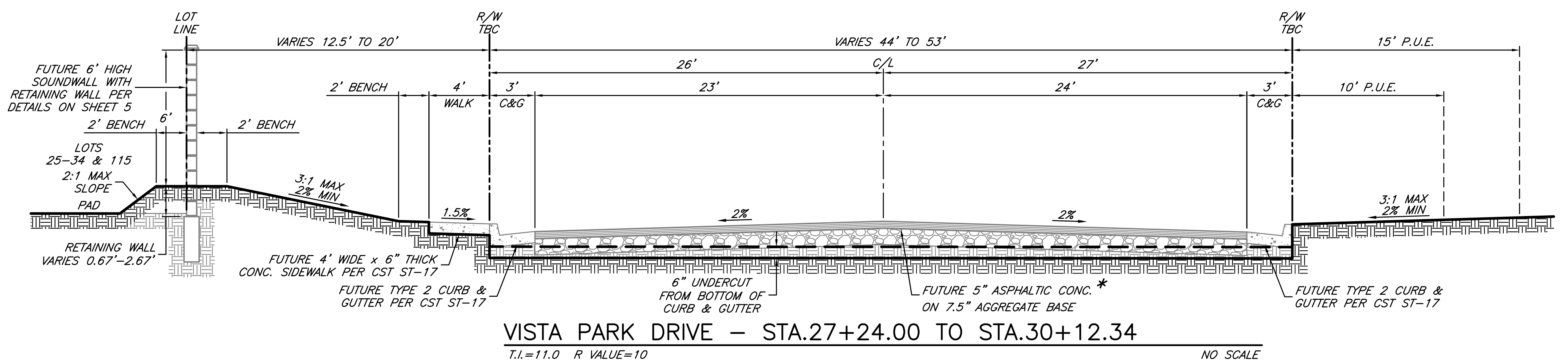
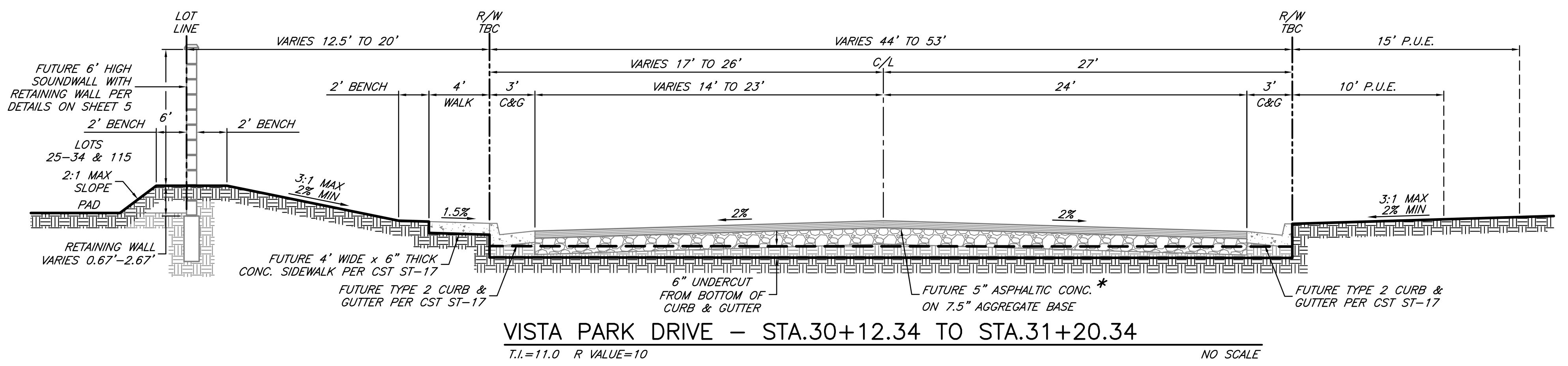
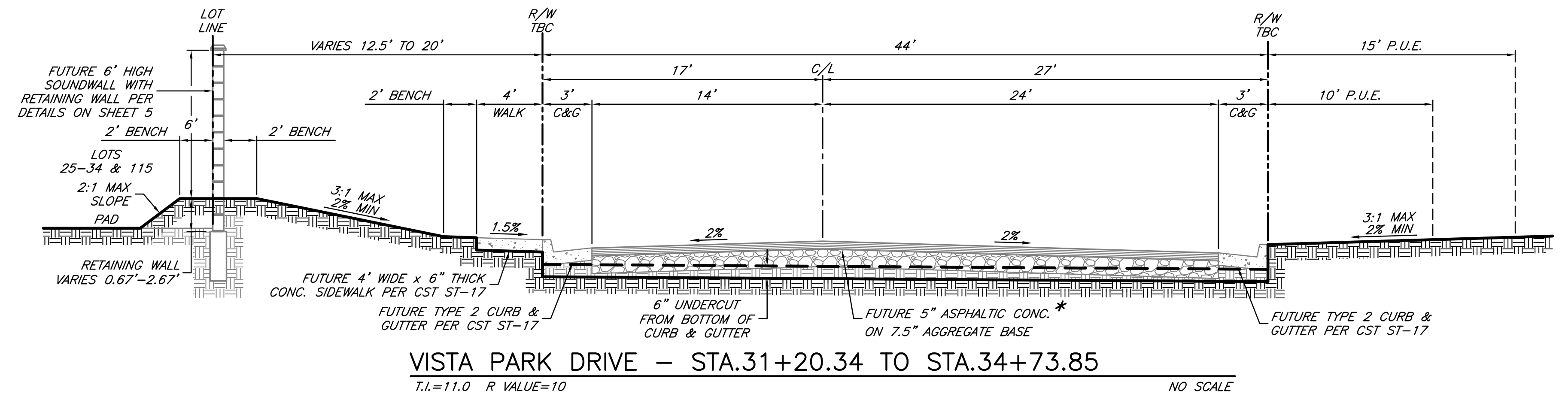
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 (916) 331-4336 - fax (916) 331-4430 - office@bwiengineers.com

**STREET SECTIONS & DETAILS**  
**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
 CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

SHEET 3 OF 11 SHEETS	20-06-24 JOB NUMBER
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2006024-MG-GEN-DET-STR-SEC1



**\*NOTE:**  
GEOTECHNICAL ENGINEER SHALL VERIFY R-VALUE AT SUBGRADE  
AND RE-DESIGN STRUCTURAL SECTION AS REQUIRED.

NO.	DESCRIPTION	ENGR. INIT.	CITY APPROVAL APPROVED BY DATE	benchmark CTY BM-71 elev.122.34(NVD29) elev.124.48(NAVD88)
				(SEE SHEET NO.1)

LISA BARBER MATTOS RCE# 44852

PLOT DATE: 01-22-21	SCALE horiz: N/A vert: N/A 1/2021 date	drafted by: R.E. designed by: L.B.M. checked by: S.F.L. 609 field book
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STREET SECTIONS  
**SIERRA VISTA VILLAGE FD-10 — MASS GRADE**  
 CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

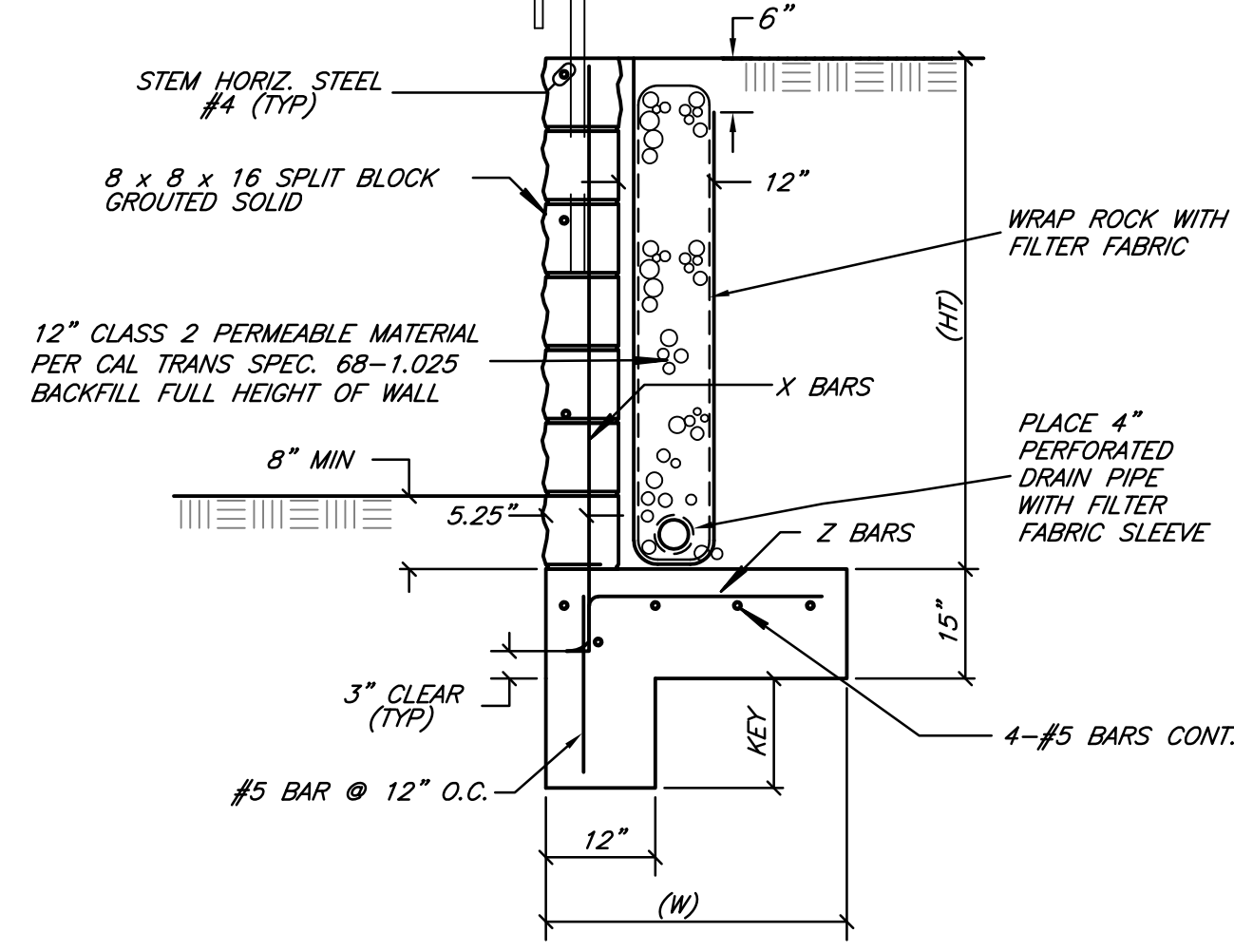
SHEET 4 OF 11 SHEETS
20-06-24 JOB NUMBER

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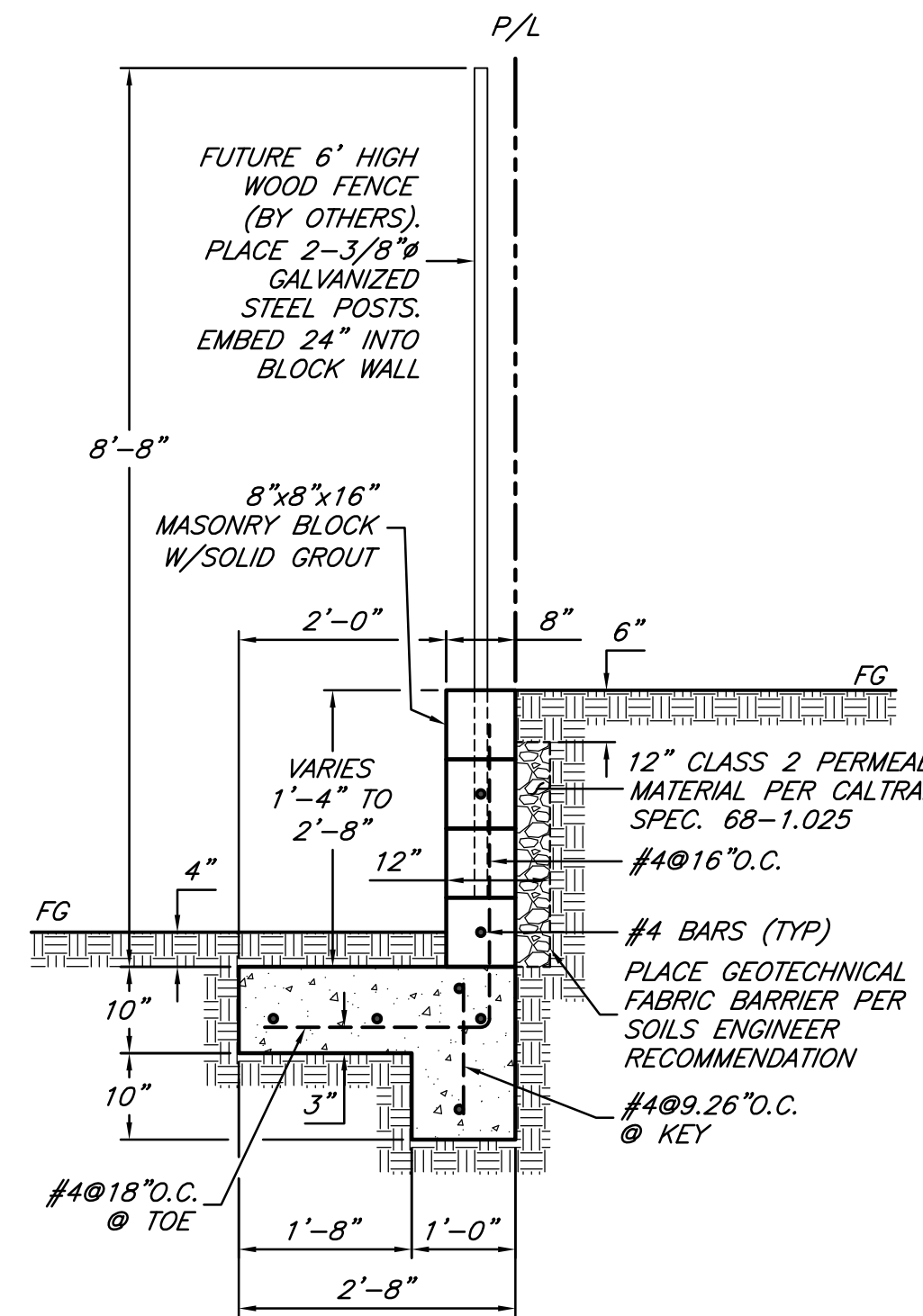
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(HT)	(W)	X BARS	Z BARS	KEY
40"	3'-3"	#5@24"	#5@16"	12"
48"	3'-9"	#5@24"	#5@16"	15"
56"	4'-4"	#5@8"	#5@8"	15"

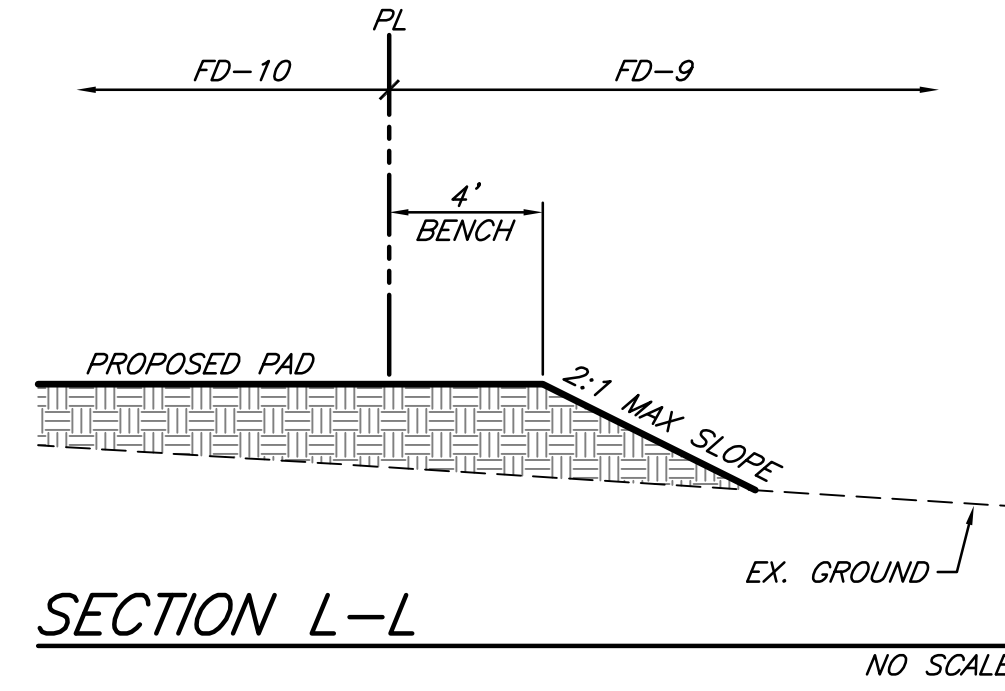
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 $f'm=1500$  PSI  
 $f'y=40,000$  PSI



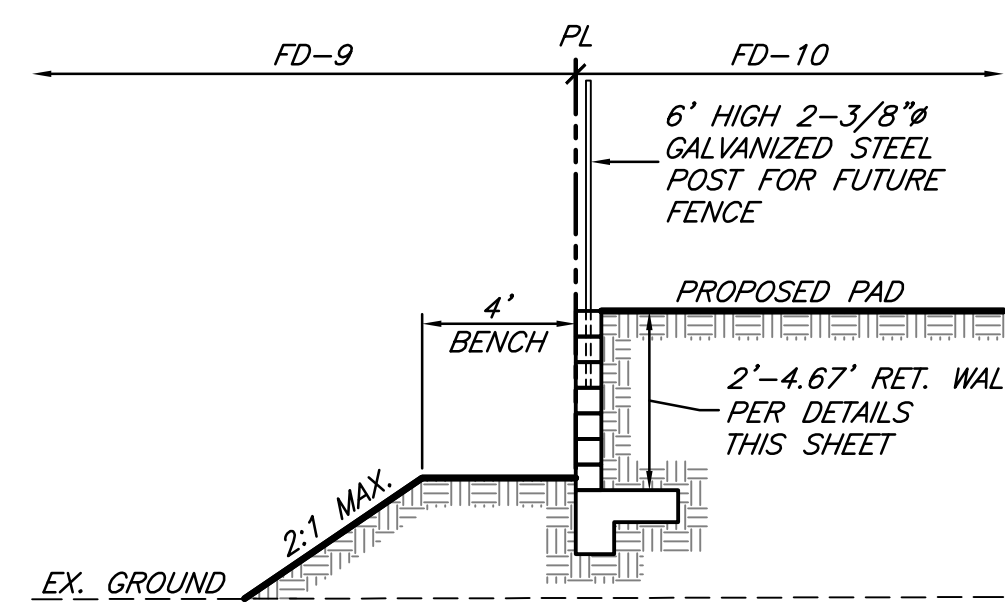
56" RETAINING WALL (MAX)



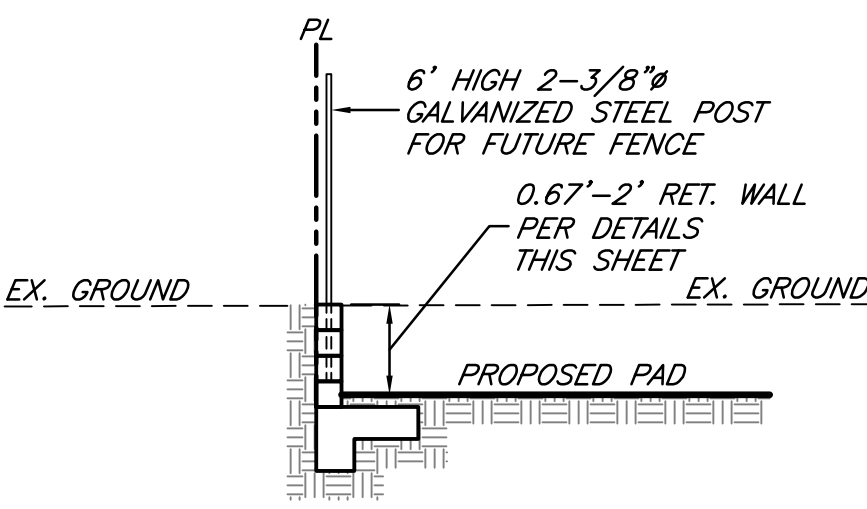
MASONRY RETAINING WALL DETAIL  
NOT TO SCALE



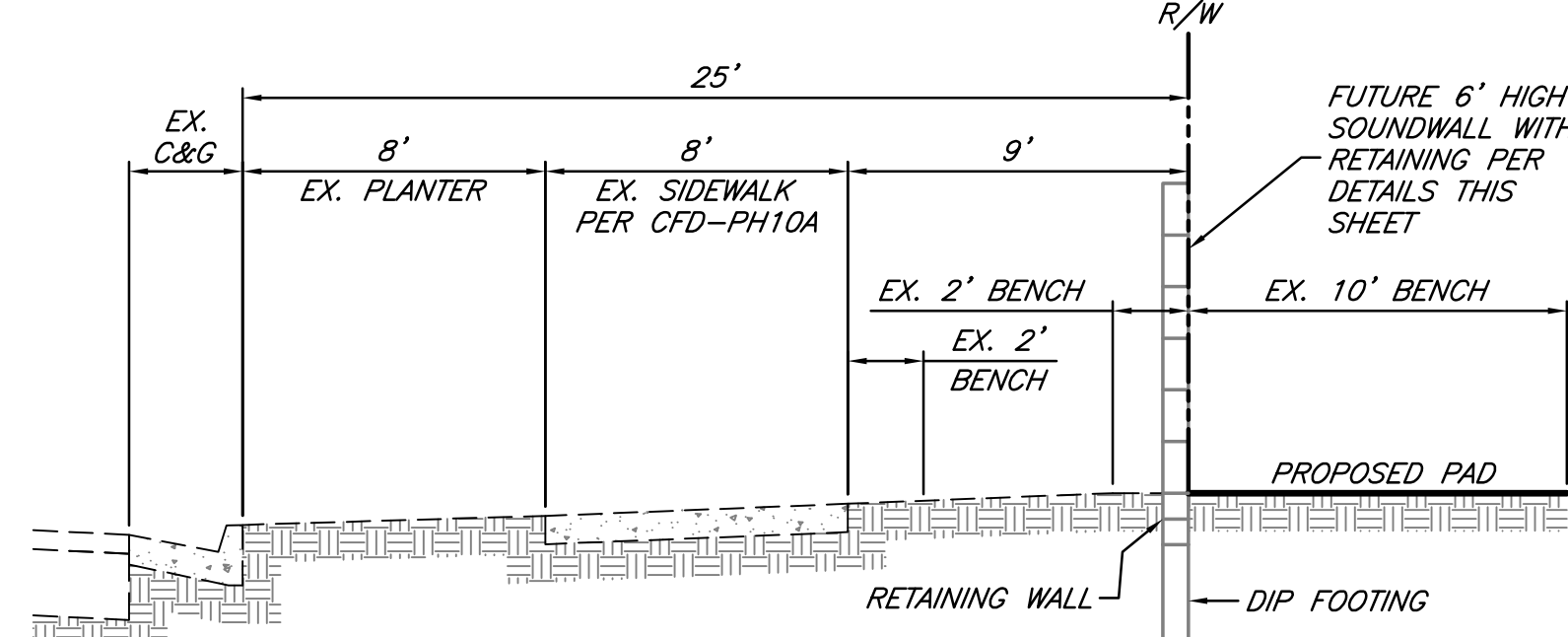
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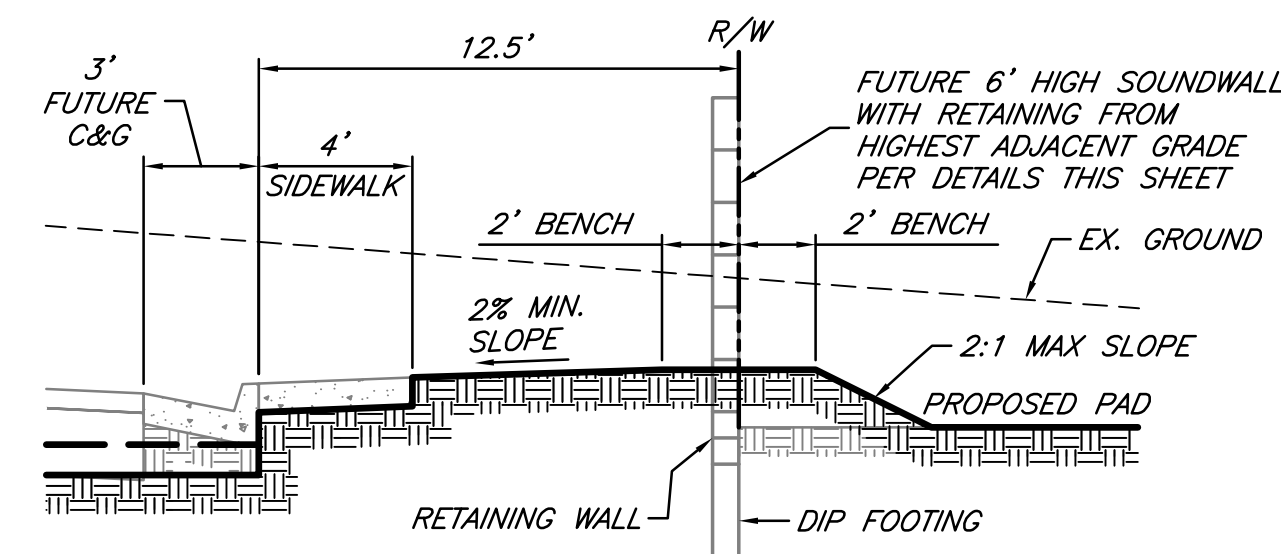
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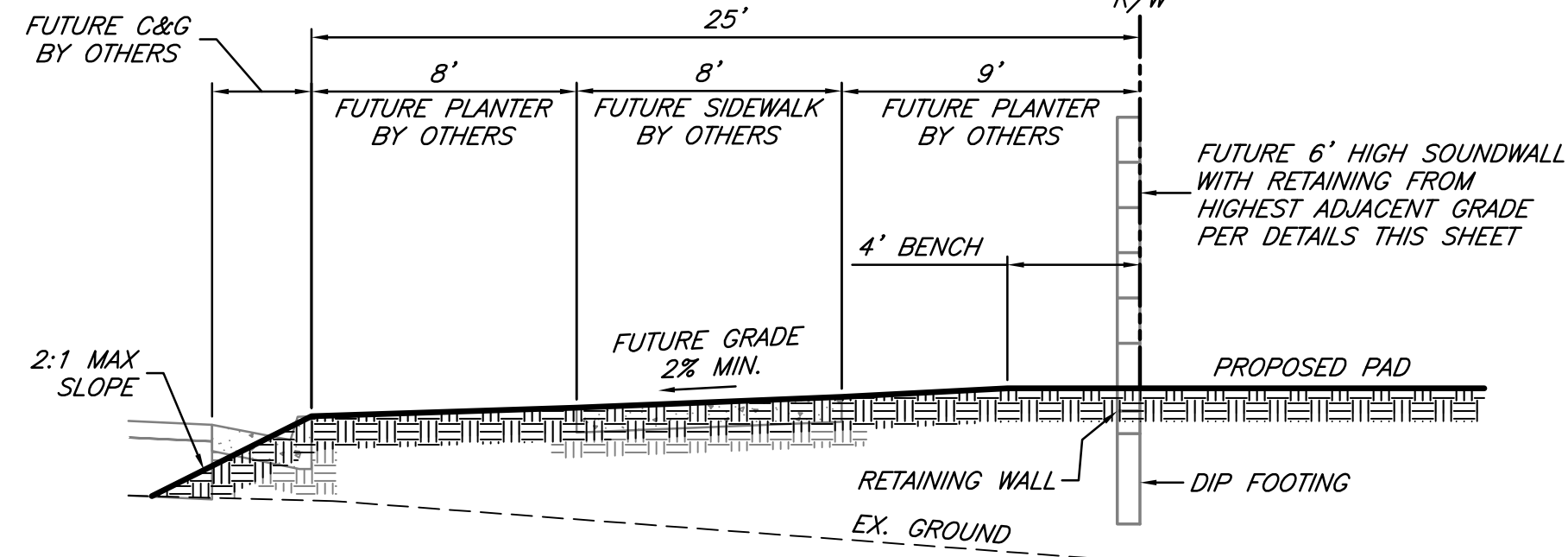
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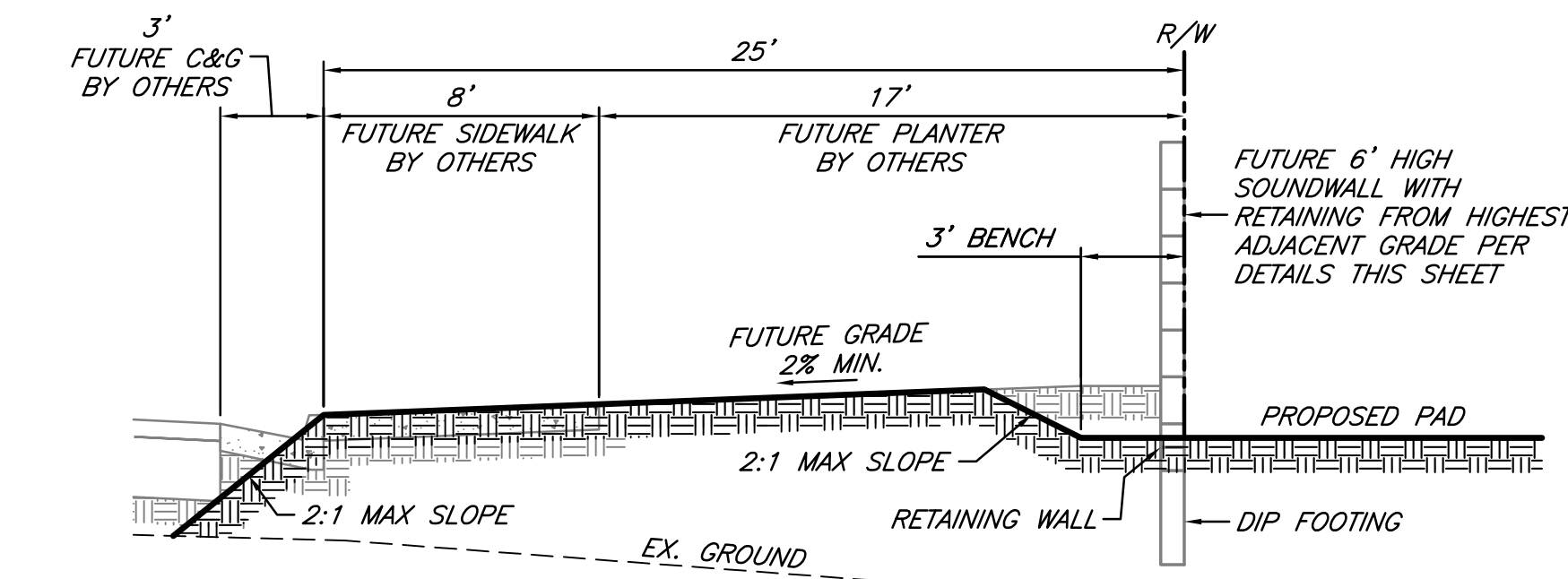
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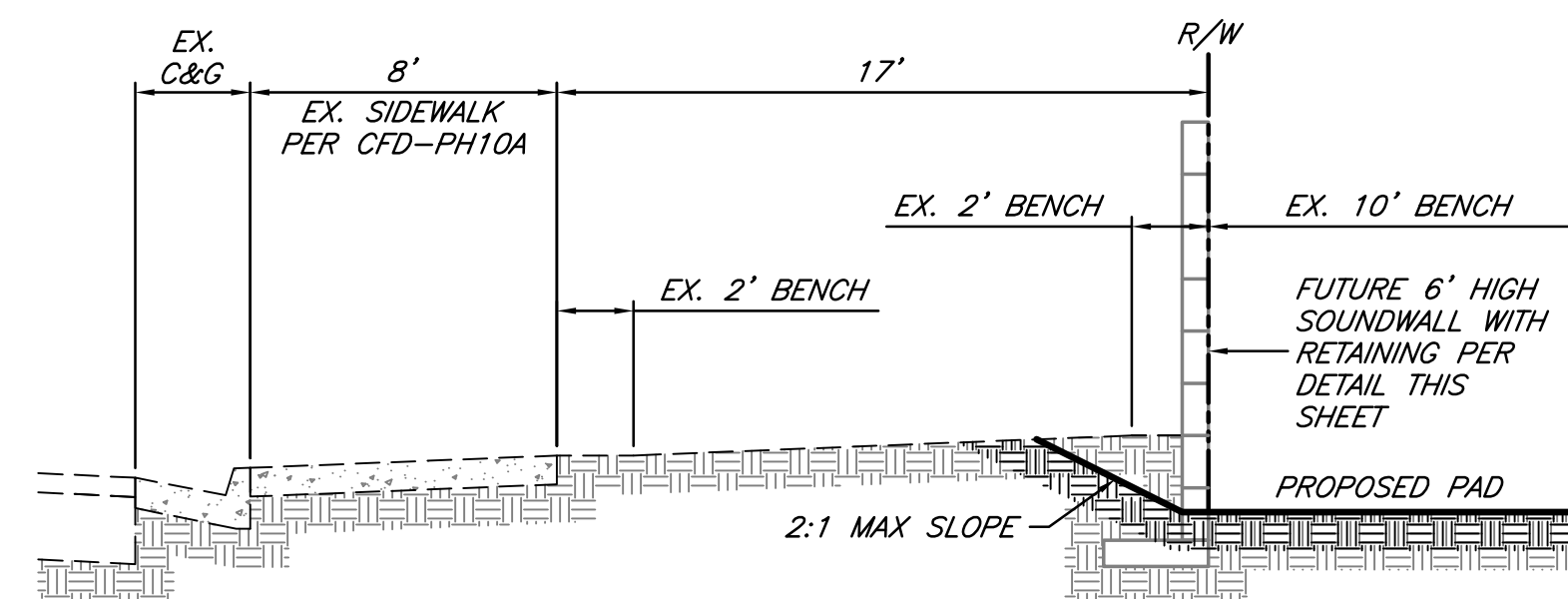
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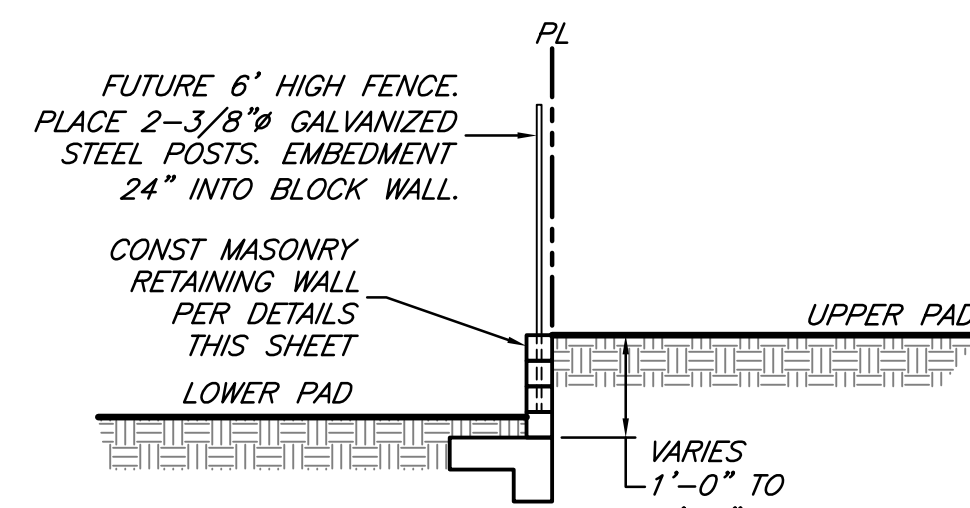
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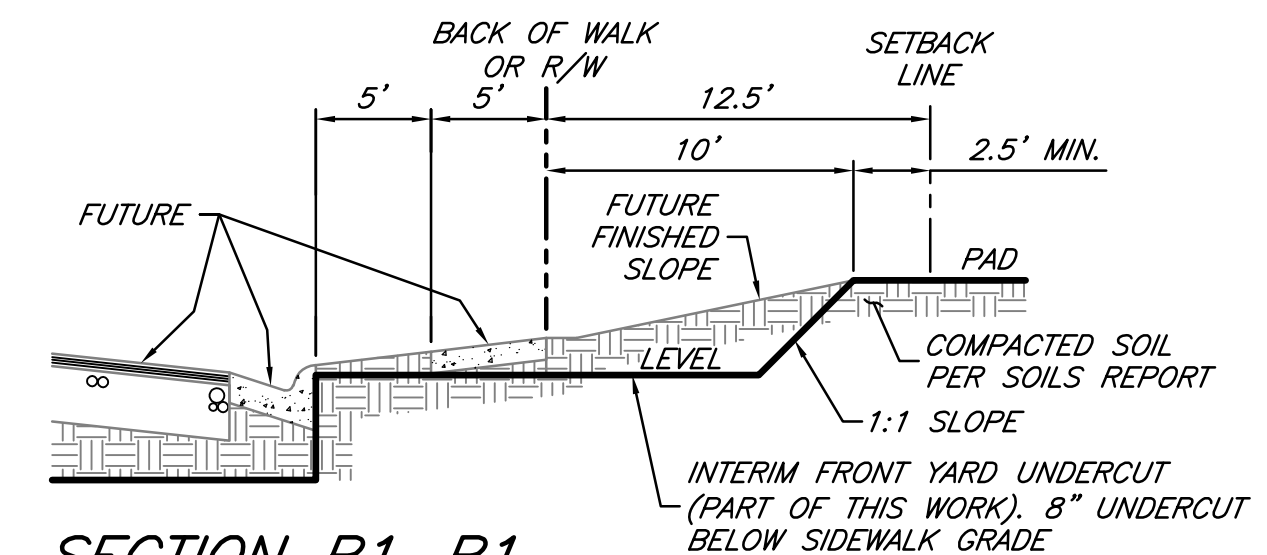
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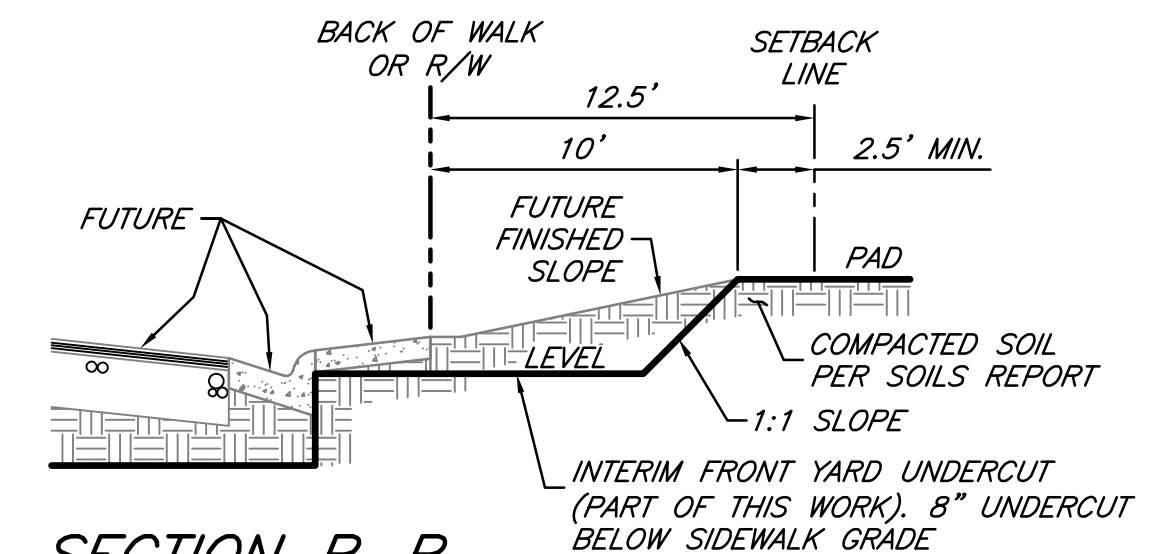
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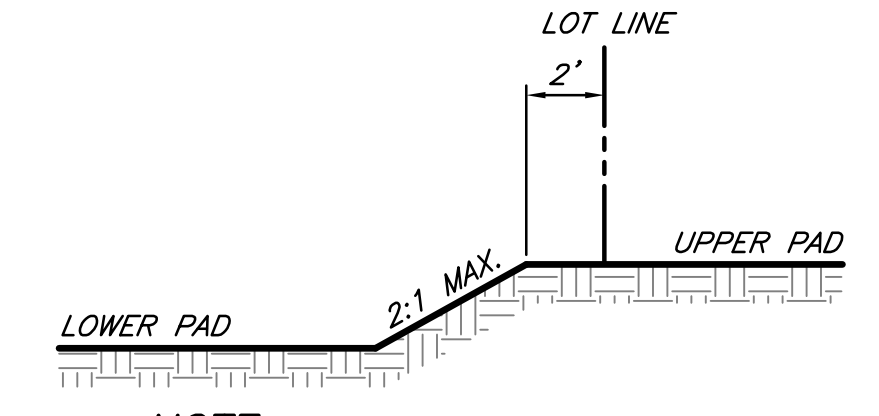
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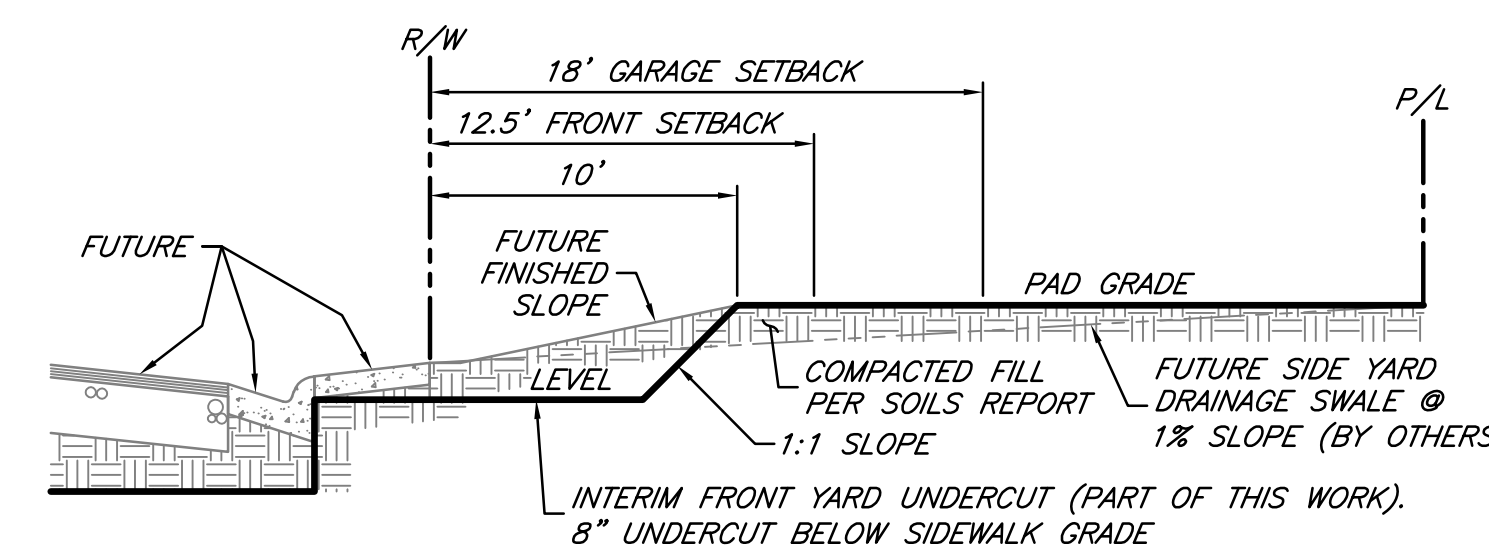
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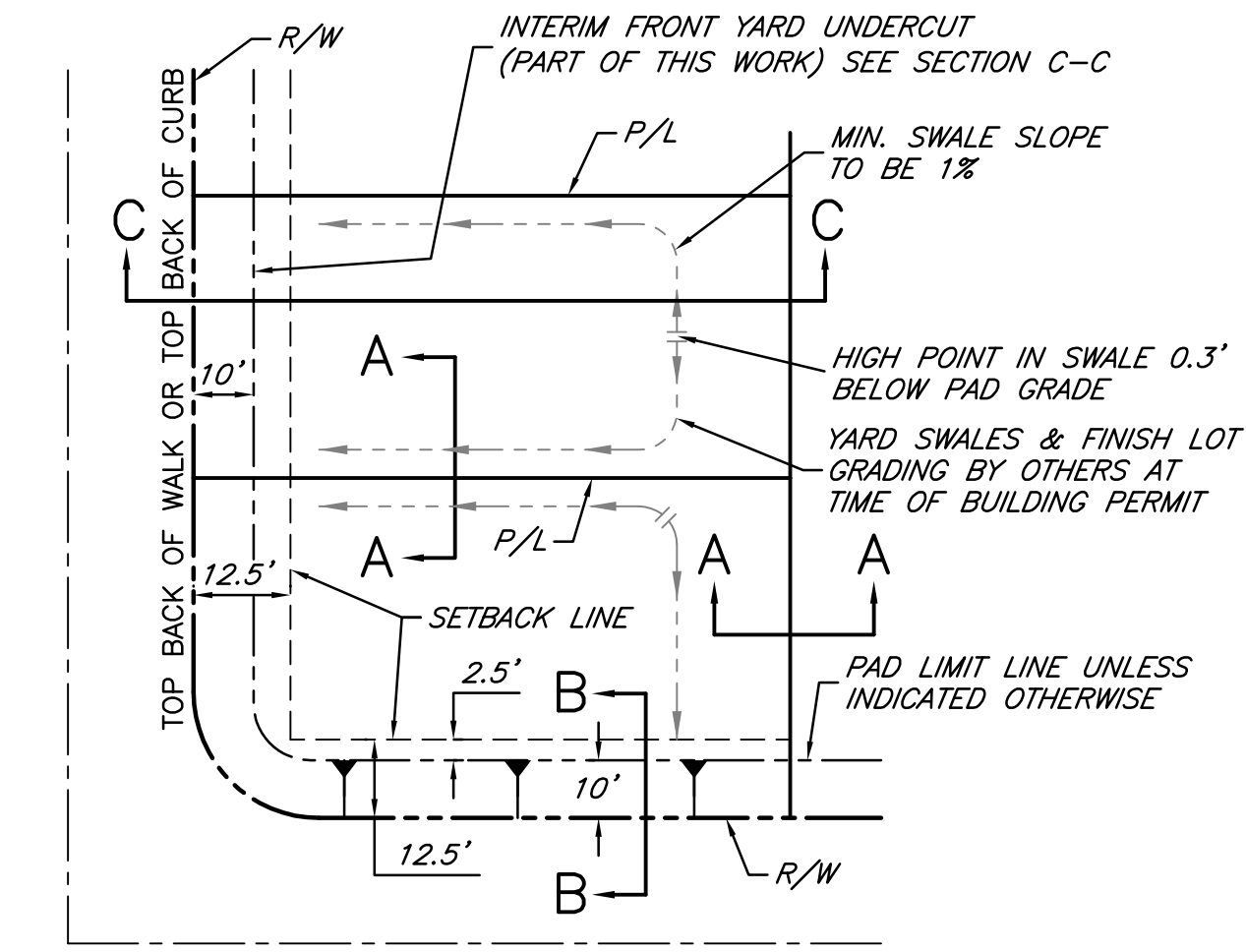
SECTION B-B  
(TYPICAL SIDE YARD W/ATTACHED SIDEWALK) NO SCALE



SECTION A-A  
NO SCALE



SECTION C-C (TYPICAL FRONT YARD)  
(TYPICAL FRONT YARD W/ SIDEWALK) NO SCALE



TYPICAL LOT GRADING  
NO SCALE

NO.	DESCRIPTION	ENGR INIT	CITY APPROVAL	APPROVED BY	DATE

benchmark CTY BM-71 elev.122.34(NVD29)  
 elev.124.48(NVD88)  
 (SEE SHEET NO.1)  
 LISA BARBER MATTOS RCE# 44852

PLOT DATE: 01-22-21

SCALE	drafted by:
horiz: N/A	R.E.
vert: N/A	designed by: L.B.M.
1/2021	checked by: S.F.L.
date	609
	field book

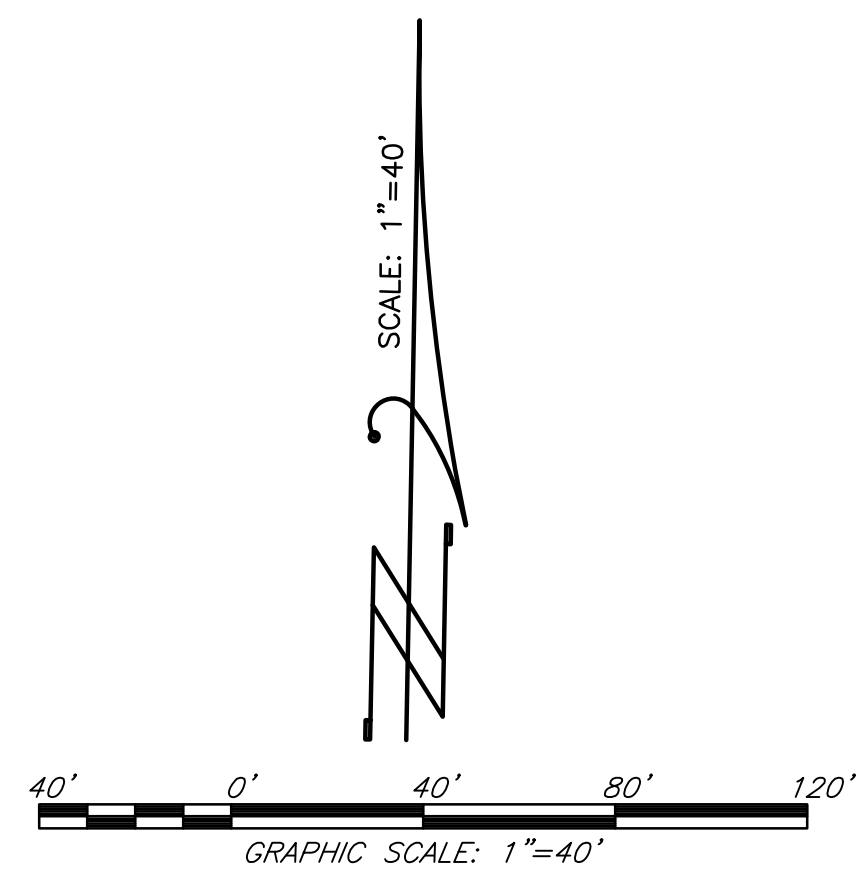
**BW** BAKER-WILLIAMS ENGINEERING GROUP  
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GRADING NOTES, SECTIONS & DETAILS  
**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
 CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

SHEET 5 OF 11 SHEETS
20-06-24
JOB NUMBER

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2006024-MG-GRD-SEC-DET



- EROSION CONTROL DATA:**
- 1 PLACE EARTH DAM PER DETAIL ON SHEET 9 WHEN SUBDIVISION GRADING IS COMPLETE.
  - 2 PLACE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL ON SHEET 9.
  - 3 CONSTRUCT VEHICLE STAGING AREA W/ GRAVEL BAG OR FIBER ROLL @ PERIMETER. ALL MATERIALS SHALL BE PROPERLY STORED/COVERED SO AS NOT TO POLLUTE RUNOFF AND TO DECREASE AIRBORNE DUST.
  - 4 ALL SLOPES GREATER THAN 3:1 WILL BE STABILIZED W/HYDROSEED TYPE 1 SA PER SHEET 11 AND EXCEL R-2 AN EROSION CONTROL BLANKET.
  - 5 INSTALL STORM DRAIN INLET SEDIMENT CONTROL BARRIER PER DETAIL ON SHEET 9. PLACE GRAVEL BAGS ON UPHILL SIDES OF DI.
  - 6 SWEEP & CLEAN ANY SOIL TRACKING ON EXISTING PAVEMENT AS NEEDED.
  - 7 PLACE FIBER ROLL ALONG EXISTING CURB, GUTTER & SIDEWALK PER DETAIL SHEET 9.
  - 8 ALL FRONT YARDS, SIDEYARDS, AND CORNERS FROM 1' BACK OF HINGE POINT WILL BE STABILIZED WITH 2.5 STEP STRAW, TACK, SEED & FERTILIZER PER SHEET 10.
  - 9 LOTS, STREETS AND DISTURBED SOIL TO BE STABILIZED WITH HYDROSEED TYPE 1 SA PER SHEET 10.
  - 10 PLACE FIBER ROLL UPON COMPLETION OF GRADING. SEE DETAIL ON SHEET 9.
  - 11 PLACE SILT FENCE. SEE DETAIL ON SHEET 9.

SEE SHEET NO. 7

NO.	DESCRIPTION	ENGR. INIT.	CITY APPROVAL

benchmark CTY BM-71 elev. 122.34 (NGVD29)  
 3-1/2" BRASS DISC elev. 124.48 (NAVD88)  
 STAMPED "2018 PLS 8278" AT BACK OF CURB AND WEST OF D.I., NORTH SIDE OF PLEASANT GROVE BLVD. @ 900' EAST OF FIDDYMENT ROAD.

LISA BARBER MATTOS RCE# 44852

PLOT DATE: 01-22-21	SCALE horiz: 1"=40' vert: N/A 1/2021 date	designed by: L.B.M. checked by: S.F.L. 609 field book
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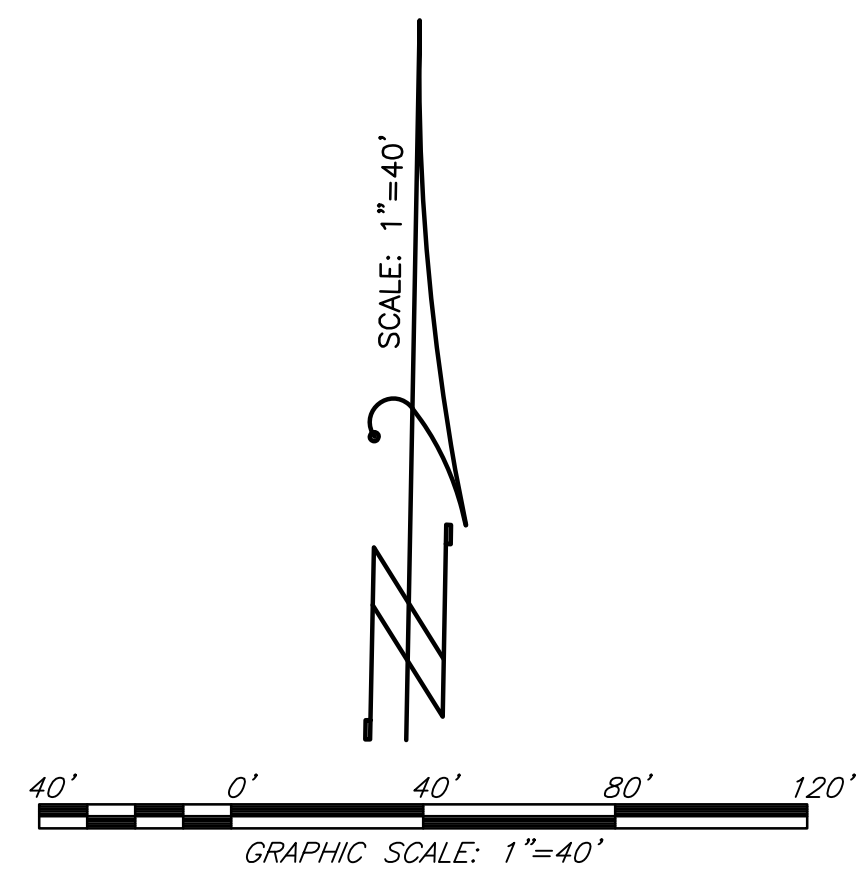
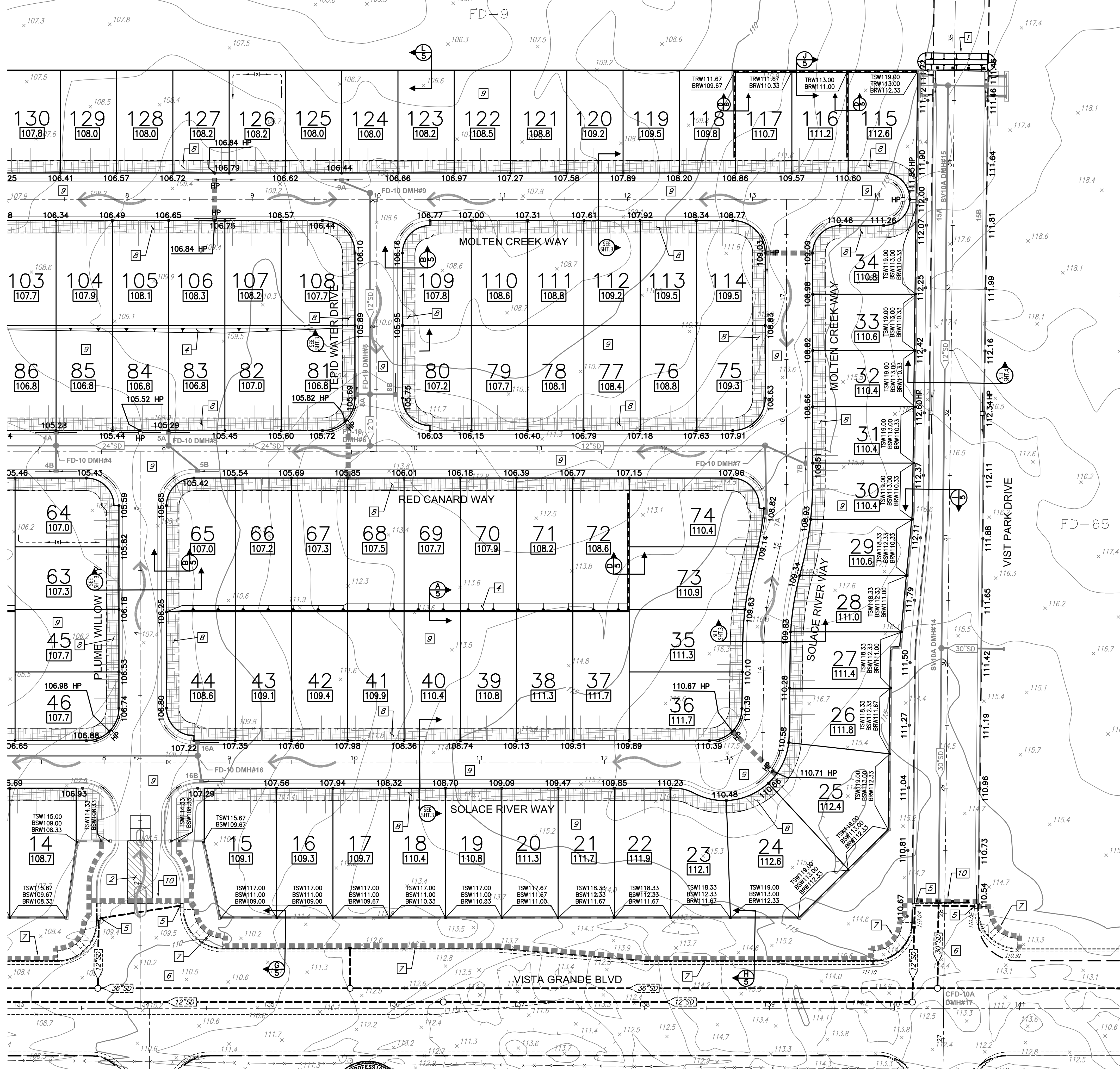
**BW** BAKER-WILLIAMS ENGINEERING GROUP  
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 (916) 331-4336 - fax (916) 331-4430 - office@bwengineers.com

**GRADING PLAN**  
**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
 CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

SHEET 6 OF 11 SHEETS	20-06-24 JOB NUMBER
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2006024-MG-GRD-PLAN1



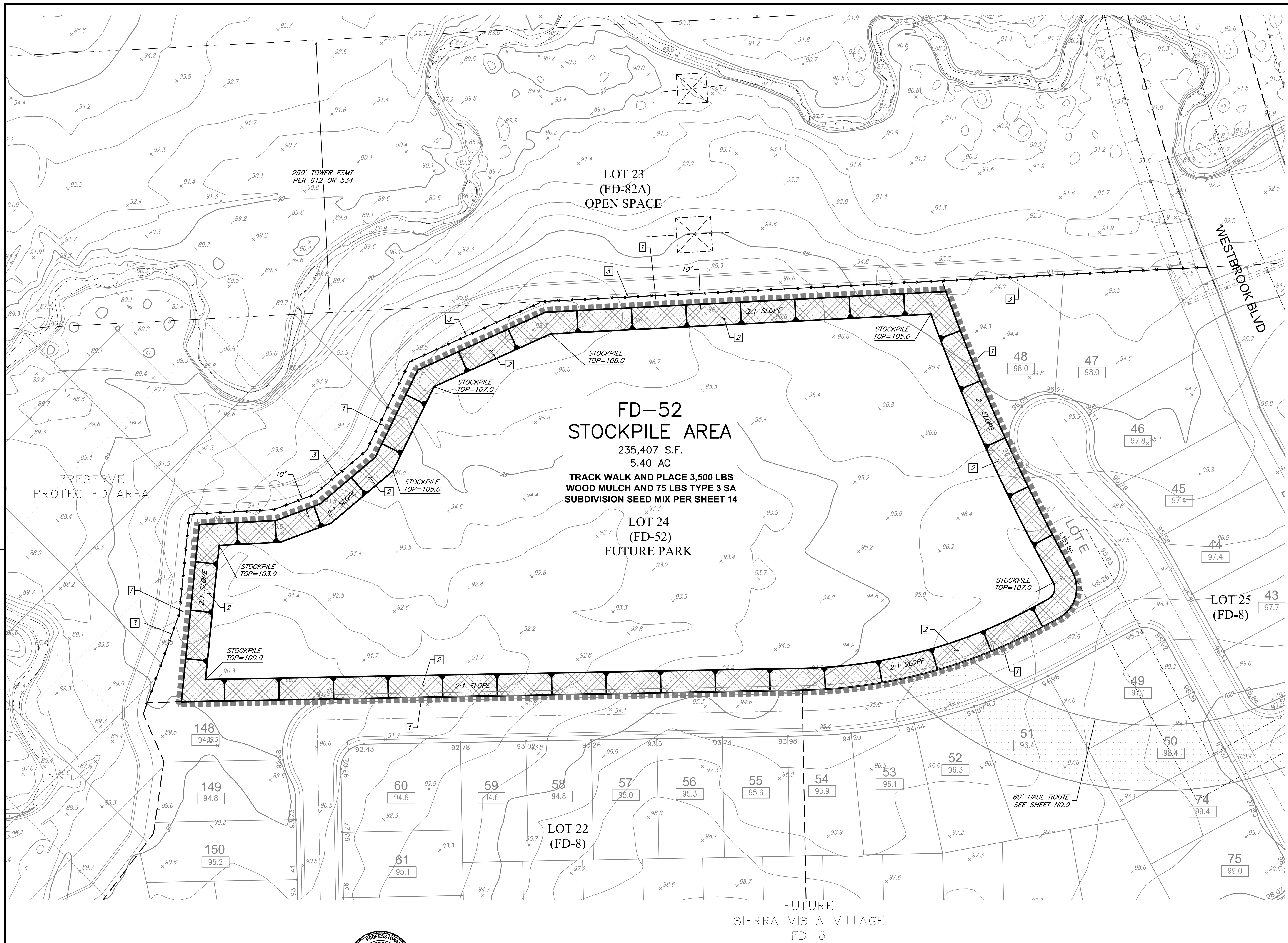
- EROSION CONTROL DATA:**
- 1 PLACE EARTH DAM PER DETAIL ON SHEET 9 WHEN SUBDIVISION GRADING IS COMPLETE.
  - 2 PLACE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL ON SHEET 9.
  - 3 CONSTRUCT VEHICLE STAGING AREA W/ GRAVEL BAG OR FIBER ROLL @ PERIMETER. ALL MATERIALS SHALL BE PROPERLY STORED/COVERED SO AS NOT TO POLLUTE RUNOFF AND TO DECREASE AIRBORNE DUST.
  - 4 ALL SLOPES GREATER THAN 3:1 WILL BE STABILIZED W/HYDROSEED TYPE 1 SA PER SHEET 11 AND EXCEL R-2 AN EROSION CONTROL BLANKET.
  - 5 INSTALL STORM DRAIN INLET SEDIMENT CONTROL BARRIER PER DETAIL ON SHEET 9. PLACE GRAVEL BAGS ON UPHILL SIDES OF DI.
  - 6 SWEEP & CLEAN ANY SOIL TRACKING ON EXISTING PAVEMENT AS NEEDED.
  - 7 PLACE FIBER ROLL ALONG EXISTING CURB, GUTTER & SIDEWALK PER DETAIL SHEET 9.
  - 8 ALL FRONT YARDS, SIDEYARDS, AND CORNERS FROM 1' BACK OF HINGE POINT WILL BE STABILIZED WITH 2.5 STEP STRAW, TACK, SEED & FERTILIZER PER SHEET 10.
  - 9 LOTS, STREETS AND DISTURBED SOIL TO BE STABILIZED WITH HYDROSEED TYPE 1 SA PER SHEET 10.
  - 10 PLACE FIBER ROLL UPON COMPLETION OF GRADING. SEE DETAIL ON SHEET 9.
  - 11 PLACE SILT FENCE. SEE DETAIL ON SHEET 9.

SEE SHEET NO. 6

NO. DESCRIPTION ENGR. INIT. CITY APPROVAL APPROVED BY DATE	benchmark CTY BM-71 elev. 122.34 (NGVD29) 3-1/2" BRASS DISC elev. 124.48 (NAVD88) STAMPED "2018 PLS B278" AT BACK OF CURB AND WEST OF D.I., NORTH SIDE OF PLEASANT GROVE BLVD. @ 900' EAST OF FIDDYDENT ROAD.	LISA BARBER MATTOS RCE# 44852	PLOT DATE: 01-22-21 SCALE: 1"=40' horiz: 1"=40' vert: N/A 1/2021 date	drafted by: R.E. designed by: L.B.M. checked by: S.F.L. 609 field book	<b>BAKER-WILLIAMS ENGINEERING GROUP</b> Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services 6020 Rutland Drive, Suite 19 - Carmichael, CA. 95608 (916) 331-4336 - fax (916) 331-4430 - office@bwiengineers.com	<b>GRADING PLAN</b> <b>SIERRA VISTA VILLAGE FD-10 - MASS GRADE</b> CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA	SHEET 7 OF 11 SHEETS 20-06-24 JOB NUMBER
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2006024-MG-GRD-PLAN2



- EROSION CONTROL DATA:**
- 1 PLACE FIBER ROLL OR FOAM WATTLES ALONG BOUNDARY OF DISTURBED AREA PER DETAIL ON SHEET 9.
  - 2 ALL SLOPES GREATER THAN 4:1 AND DISTURBED SOIL WILL BE HYDROSEEDING WITH TYPE 1 SA PER SHEET 10 & COVERED WITH WOOD MULCH, BROADCAST STRAW AND EROSION CONTROL BLANKET.
  - 3 PLACE SILT FENCE. SEE DETAIL ON SHEET 9.

NO.	DESCRIPTION	ENGR. INIT.	CITY APPROVAL	DATE

benchmark CTY BM-71 elev.124.34(NVD29)  
 3-1/2" BRASS DISC elev.124.48(NVD88)  
 STAMPED "2018 PLS B278" AT BACK OF CURB AND WEST OF D.I., NORTH SIDE OF PLEASANT GROVE BLVD. @ 900' EAST OF FIDDYD ROAD.

PROFESSIONAL ENGINEER  
 LISA BARBER MATTOS RCE# 44852  
 No. C 44852  
 EXPIRES 3/31/2022

PLOT DATE: 01-22-21	SCALE horiz: 1"=40' vert: N/A 1/2021 date	drafted by: R.E. designed by: L.B.M. checked by: S.F.L. 609 field book
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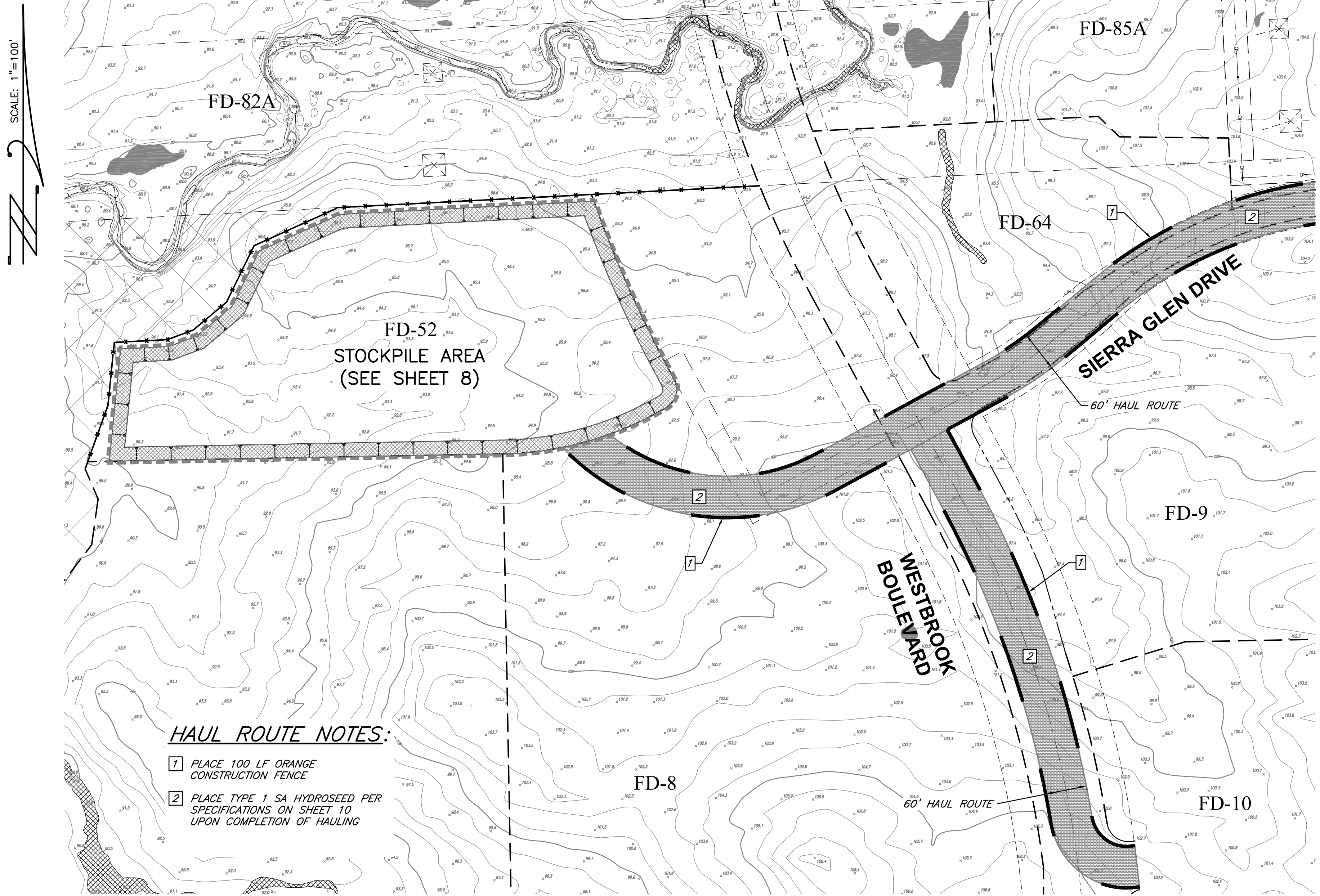
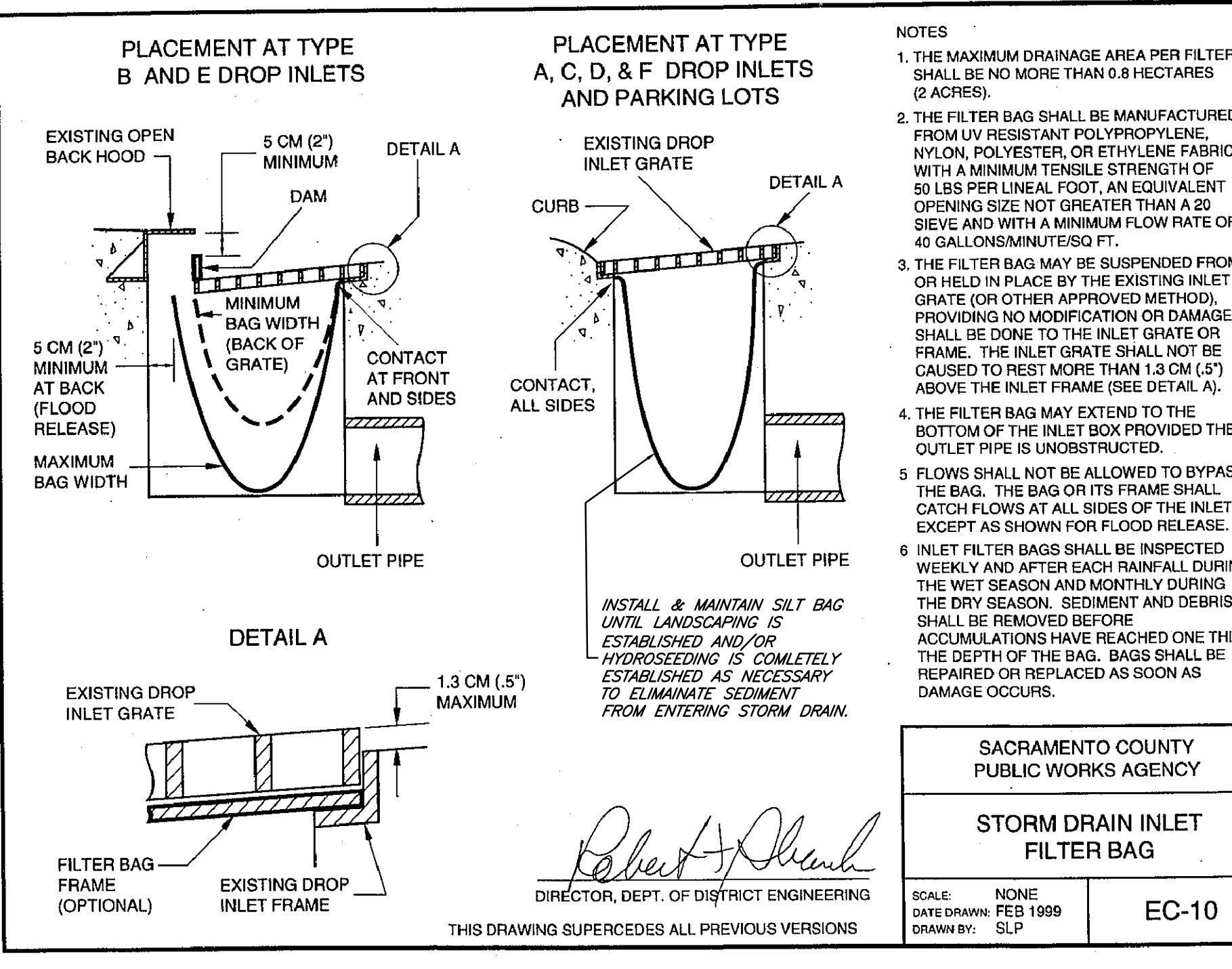
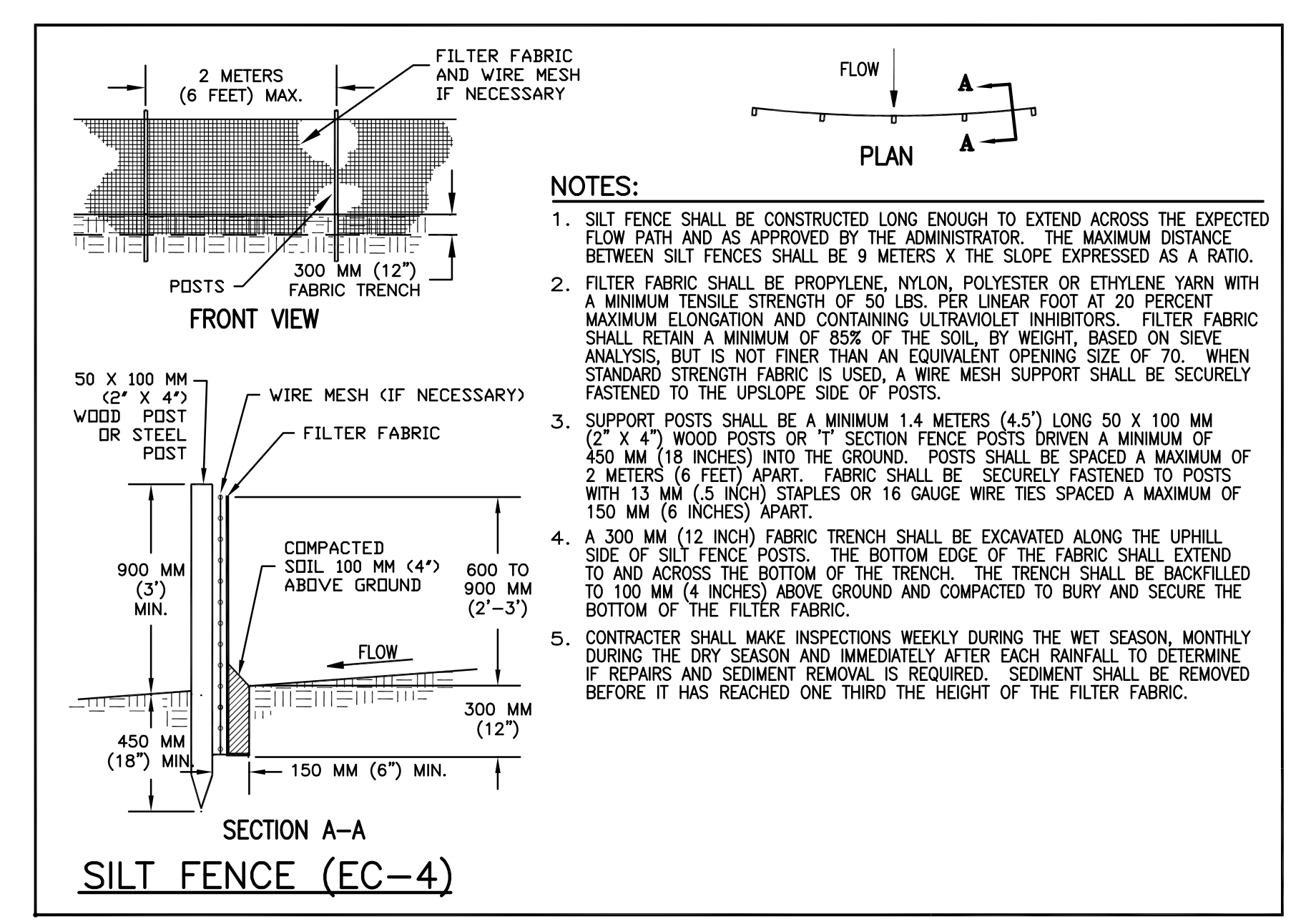
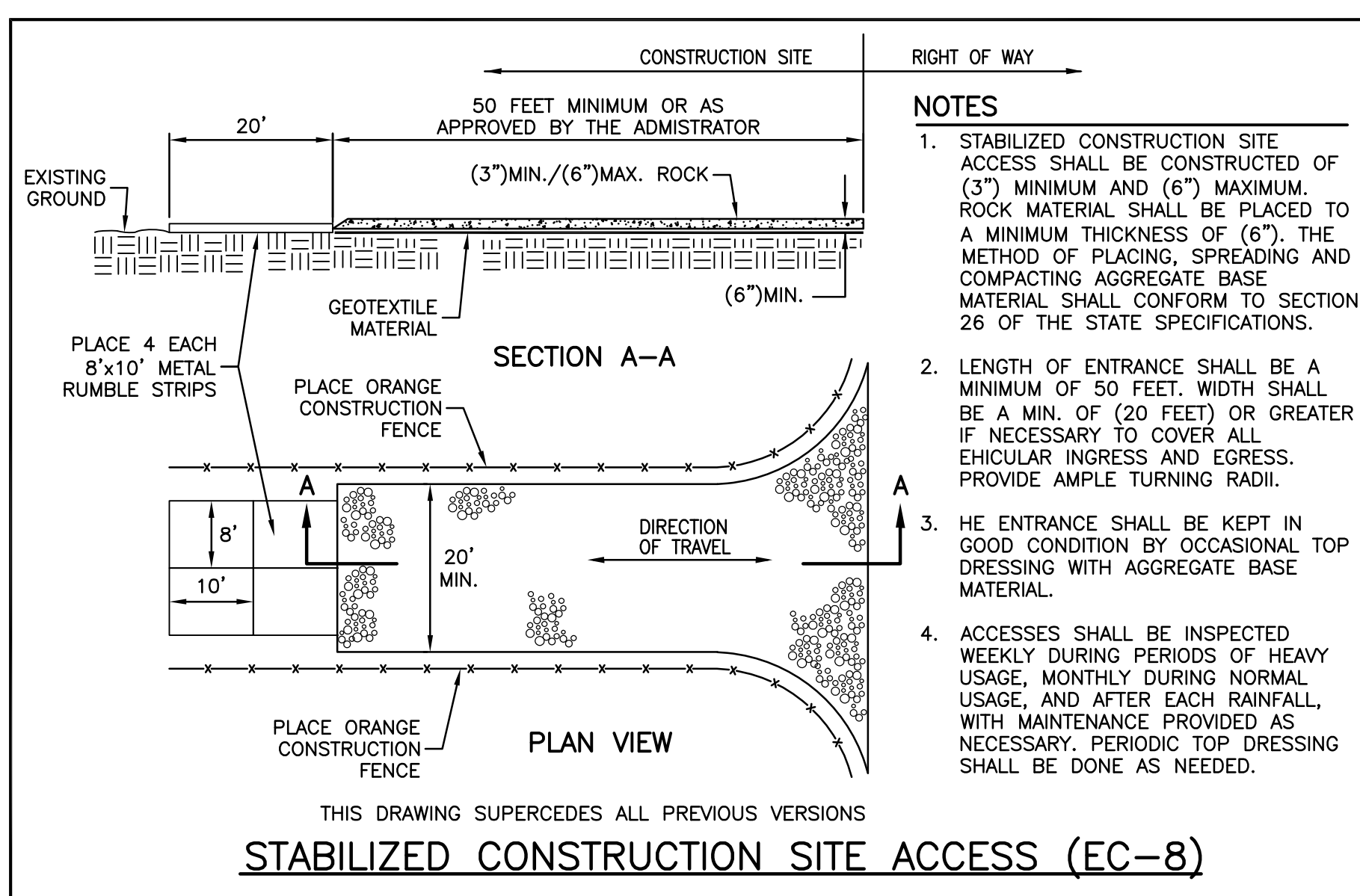
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 (916) 331-4336 - fax (916) 331-4430 - office@bwiengineers.com

**GRADING PLAN - FD-52 STOCKPILE AREA**  
**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
 CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

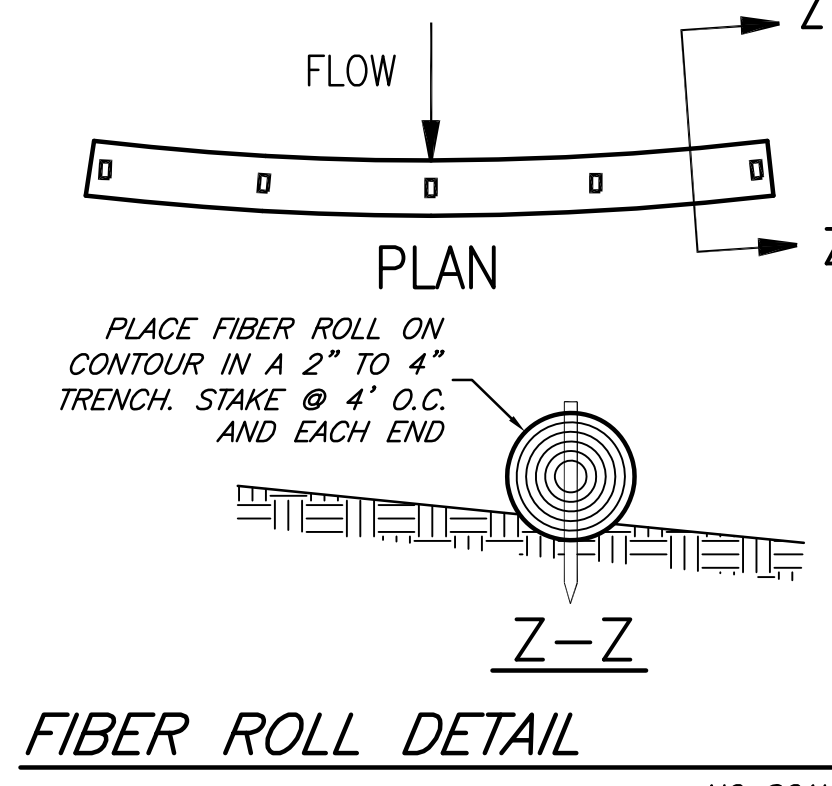
SHEET 8 OF 11 SHEETS  
 20-06-24 JOB NUMBER

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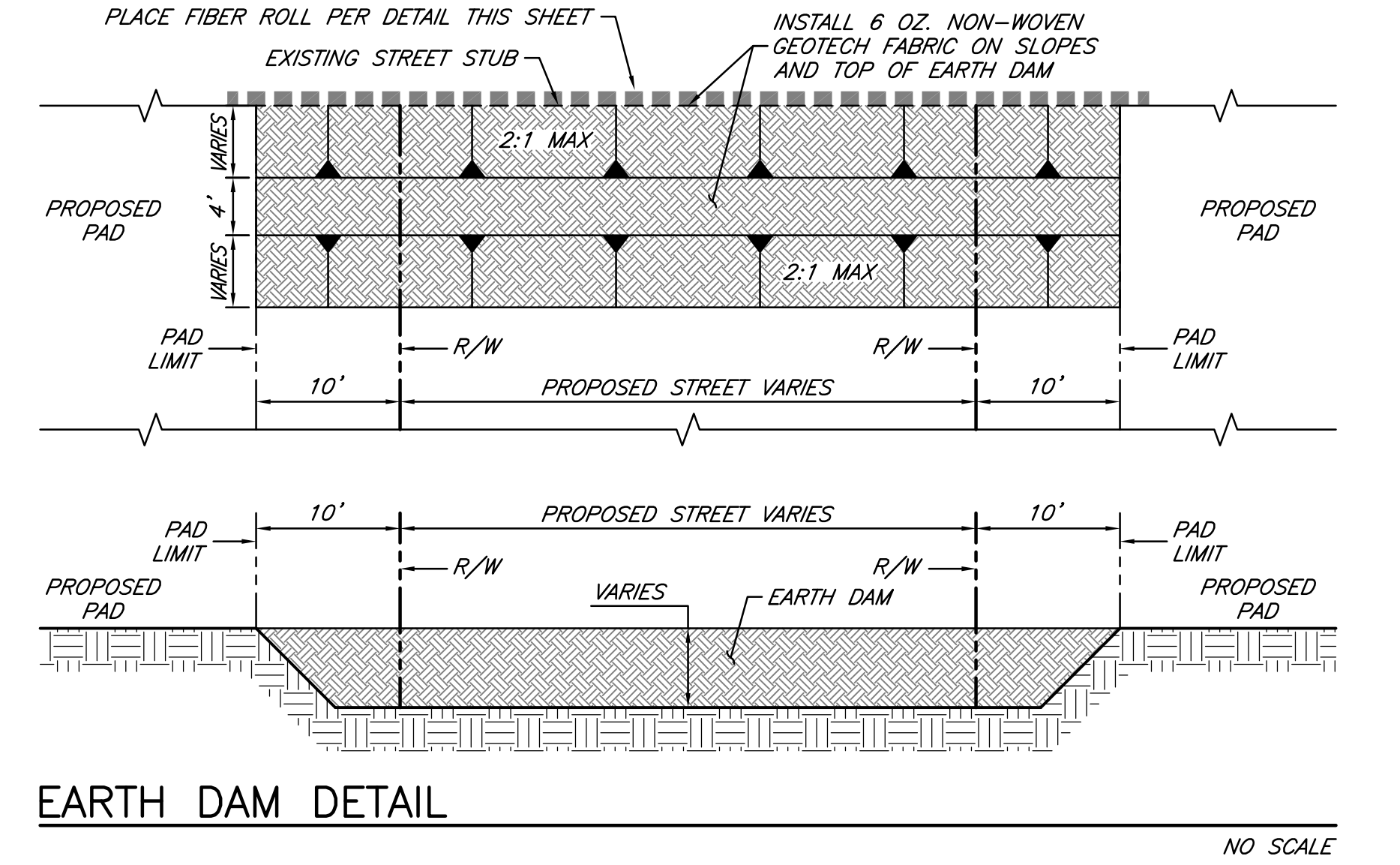
2006024-MG-GRD-PLAN3-SF



**HAUL ROUTE PLAN**  
SCALE: 1"=100'  
GRAPHIC SCALE: 1"=100'



**FIBER ROLL DETAIL**  
NO SCALE



**EARTH DAM DETAIL**  
NO SCALE

NO.	DESCRIPTION	ENGR. INIT.	CITY APPROVAL	APPROVED BY	DATE

benchmark CTY BM-71 elev. 122.34 (NGVD29)  
elev. 124.48 (NAVD88)

(SEE SHEET NO. 1)

SACRAMENTO COUNTY  
PUBLIC WORKS AGENCY

**STORM DRAIN INLET  
FILTER BAG**

SCALE: NONE  
DATE DRAWN: FEB 1999  
DRAWN BY: SLP

EC-10

*Robert A. ...*  
DIRECTOR, DEPT. OF DISTRICT ENGINEERING

THIS DRAWING SUPERCEDES ALL PREVIOUS VERSIONS

PLOT DATE: 01-22-21

SCALE  
horiz: AS SHOWN  
vert: N/A  
1/2021  
date

designed by: R.E.  
designed by: L.B.M.  
checked by: S.F.L.  
609  
field book

**IDW** BAKER-WILLIAMS ENGINEERING GROUP

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**EROSION & SEDIMENT CONTROL DETAILS & HAUL ROUTE PLAN**

**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**

CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

SHEET 9 OF 11 SHEETS  
20-06-24 JOB NUMBER

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2006024-KG-GRD-EC-DET-NTS

**WINTERIZATION NOTES:**

- THE FOLLOWING CONDITIONS ARE REQUIRED IF GRADING AND DRAINAGE IMPROVEMENTS ARE INCOMPLETE BETWEEN SEPTEMBER 1 AND MAY 15:  
 A. EROSION PROTECTION ON SLOPES 10:1 OR STEEPER AND SWALES WITH SLOPES 2.0% OR GREATER.  
 B. GRADE GUTTER SAG POINTS TO DRAIN.  
 C. PREVENT SEDIMENT IN EXISTING STORM DRAIN SYSTEM AND CLEAN DOWNSTREAM PIPES AS PER SECTION SS67-05 OF THE STANDARD CONSTRUCTION SPECIFICATIONS.

**EROSION AND SEDIMENT CONTROL:**

- THE STATE'S GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (W00 99-080-DW0) REQUIRES THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR SITES WITH SOIL DISTURBANCES GREATER THAN OR EQUAL TO ONE ACRE, OR FROM SITES SMALLER THAN ONE ACRE IF THE CONSTRUCTION ACTIVITY IS PART OF A LARGER PLAN OF DEVELOPMENT OR SALE THAT DISTURBS ONE ACRE OR MORE. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE, NOR A PRE-CONSTRUCTION MEETING PERMITTED TO BE SCHEDULED, PRIOR TO THE SWPPP BEING ACCEPTED BY THE CITY. FOR MORE INFORMATION SEE: [http://www.roseville.ca.us/eu/stormwater\\_management](http://www.roseville.ca.us/eu/stormwater_management)
- THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS INCORPORATED BY REFERENCE INTO THIS SET OF PLANS. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THESE PLANS.
- A COPY OF THE SWPPP SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP AND/OR AS DIRECTED BY CITY INSPECTOR
- NO GRADING OR TRENCHING, EXCEPT AS REQUIRED FOR EROSION OR SEDIMENT CONTROL, SHALL OCCUR WITHIN 35 FEET FROM THE CENTERLINE OF PERENNIAL AND INTERMITTENT DRAINAGE SWALES BETWEEN OCTOBER 15 AND APRIL 15 EXCEPT AS APPROVED BY THE DEPARTMENT OF FISH AND GAME.
- ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE SWPPP.
- THE CONTRACTOR SHALL ESTABLISH A SPECIFIC SITE WITHIN THE DEVELOPMENT FOR MAINTENANCE AND STORAGE OF EQUIPMENT OR ANY OTHER ACTIVITY THAT MAY ADVERSELY CONTRIBUTE TO THE WATER QUALITY OF THE RUNOFF IN ACCORDANCE WITH THE SWPPP.
- EROSION CONTROL MATERIALS POTENTIALLY HARMFUL TO FISH AND WILDLIFE SUCH AS MONO-FILAMENT NETTING FOUND IN STRAW WATTLES, FIBER ROLLS OR EROSION CONTROL MATTING ARE PROHIBITED WITHIN AND ADJACENT TO THE WORK AREA. FIBER ROLLS OR EROSION CONTROL MESH SHALL BE MADE OF LOOSE WEAVE MESH THAT IS NOT FUSED AT THE INTERSECTIONS OF THE WEAVE SUCH AS JUTE, COCONUT COIR FIBER, OR OTHER PRODUCTS WITHOUT WELDED WEAVES.
- ALL FIBER ROLLS, STRAW WATTLES, AND/OR HAY BALES UTILIZED WITHIN AND ADJACENT TO THE PROJECT SITE SHALL BE FREE OF NONNATIVE PLANT SEED AND WEEDS AND SHALL CONFORM TO REQUIREMENTS SPECIFIED IN 401, 404 AND 1600 PERMITS ISSUED BY THE STATE OF CALIFORNIA WATER BOARD, THE U.S. ARMY CORP OF ENGINEERS AND CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.  
 HYDRO-SEED SHALL BE LOCALLY NATIVE SEED UNLESS OTHERWISE AGREED BY CDW. SEEDING AREA SHALL BE COVERED WITH BROADCAST STRAW, JUTE NETTING, COCONUT FIBER BLANKET OR SIMILAR EROSION CONTROL BLANKET.

**HYDROSEEDING NOTES**

- SEED SHALL BE APPLIED WITH HYDROSEEDING EQUIPMENT TOGETHER WITH FERTILIZER, MULCH FIBER, TACK (BINDER), AND INOCULATE PER SPECIFIED QUANTITIES. MULCH FIBER SHALL BE PRODUCED FROM WOOD PULP AND SHALL BE OF SUCH CHARACTER THAT IT WILL DISPERSE INTO A UNIFORM SLURRY WHEN MIXED WITH WATER. MULCH FIBER SHALL BE COLORED TO CONTRAST WITH THE AREA ON WHICH THE SEED MIXTURE IS TO BE APPLIED, SHALL BE NONTOXIC TO PLANT TO ANIMAL LIFE, AND SHALL NOT STAIN CONCRETE OR PAINTED SURFACES.
- MIXING OF MATERIALS FOR APPLICATION WITH HYDROSEEDING EQUIPMENT SHALL BE PERFORMED IN A TANK WITH A BUILT-IN CONTINUOUS AGITATION SYSTEM OF SUFFICIENT OPERATING CAPACITY TO PRODUCE A HOMOGENEOUS SLURRY AND A DISCHARGE SYSTEM WHICH WILL APPLY THE SLURRY TO THE SLOPES AT A CONTINUOUS AND UNIFORM RATE. THE TANK SHALL HAVE A MINIMUM CAPACITY OF 1,500 GALLONS.
- NO DISPERSING AGENT WILL BE ADDED TO THE SLURRY. ANY MATERIAL CONSIDERED HARMFUL, AS DETERMINED BY THE OWNERS OR THEIR REPRESENTATIVES, SHALL NOT BE USED.
- BEFORE HYDROSEEDING, THE CONTRACTOR SHALL SUBMIT COPIES TO THE OWNERS OR THEIR REPRESENTATIVES OF ALL SEED LABELS AND ALL SEED INVOICES, PROVIDING WRITTEN EVIDENCE THAT SEED CONFORMS TO THE APPLICATION RATES, PURITY AND GERMINATION REQUIREMENTS IN THESE SPECIFICATIONS. SAMPLES OF THE APPLICATION MIXTURE WILL BE PROVIDED UPON REQUEST.
- SEED DESIGNATED WITHOUT A PURITY OR GERMINATION REQUIREMENT SHALL BE LABELED TO INCLUDE THE NAME, DATE (MONTH AND YEAR) COLLECTED, AND THE NAME AND ADDRESS OF THE SEED SUPPLIER. SEED AT THE TIME OF SOWING SHALL BE FROM THE PREVIOUS OR CURRENT YEAR'S HARVEST.
- THE LEGUME SEED SHALL BE INOCULATED AS PER TRADE SPECIFICATIONS AND RATE SPECIFIED.
- SEED SHALL BE PREMIXED BY A LICENSED SUPPLIER AND A COPY OF THE LICENSE SHALL BE PROVIDED TO THE OWNERS OR THEIR REPRESENTATIVES UPON REQUEST.
- WATER SHALL BE OF SUCH QUALITY THAT IT WILL PROMOTE GERMINATION AND GROWTH OF SEEDS AND PLANTS.
- THE MATERIAL SHALL BE REGISTERED WITH AND LICENSED BY THE STATE OF CALIFORNIA, DEPARTMENT OF FOOD AND AGRICULTURE, AS AN "AUXILIARY SOIL CHEMICAL."
- MULCH FIBER SHALL NOT BE APPLIED DURING RAINY WEATHER OR WHEN SOIL TEMPERATURES ARE BELOW 40° F. MULCH FIBER SHALL BE APPLIED WITH A BINDER SUFFICIENT TO ASSURE COMPLETENESS OF COVERAGE. PEDESTRIANS OR EQUIPMENT SHALL NOT ENTER HYDROSEEDING AREAS AFTER THE SEED MIXTURE HAS BEEN APPLIED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF ANY HYDROSEEDING ACTIVITY, AND SHALL NOT PERFORM ANY WORK WITHOUT AUTHORIZATION OF THE OWNERS OR THEIR REPRESENTATIVES. THE CONTRACTOR SHALL APPLY THE HYDROSEED MATERIALS AT LEAST 24 HOURS IN ADVANCE OF ANY REASONABLY PREDICTABLE TABLE PERIOD OF RAINY WEATHER.
- THE PROPORTION OF EROSION CONTROL MATERIALS MAY BE CHANGED BY THE OWNERS OR THEIR REPRESENTATIVES TO MEET FIELD CONDITIONS.
- REFER TO SPECIFICATIONS OF TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKETING FOR HYDROSEEDING OVER OR UNDER MATERIALS. IF IN DOUBT, CONSULT OWNER'S REPRESENTATIVE.
- THE OWNERS OR THEIR REPRESENTATIVES MAY AUTHORIZE ALTERNATIVE METHODS OR EQUIPMENT IF IT IS DEMONSTRATED THAT METHODS AND EQUIPMENT ARE CAPABLE OF PERFORMING ALL OPERATIONS SATISFACTORILY.

**DISTURBED AREA**

**FD-10:**

STREET/SIDEWALK AREA	___ AC
LANDSCAPE AREA	___ AC
LOT AREA	___ AC

**VISTA PARK DRIVE:**

STREET AREA	___ AC
CORRIDOR:	
SIDEWALK AREA	___ AC
LANDSCAPE AREA	___ AC

**VISTA GRANDE BLVD:**

CORRIDOR:	
SIDEWALK AREA	___ AC
LANDSCAPE AREA	___ AC

**WESTBROOK BLVD:**

CORRIDOR:	
SIDEWALK AREA	___ AC
LANDSCAPE AREA	___ AC

**SIERRA VISTA SA SEED MIX**

**SA TYPE 1 AND 2 SEED MIX**

% OF MIX	SEED
53.33	LOLIUM MULTIFLORUM, ANNUAL RYEGRASS
20.00	BROMUS HORDEACEUS, BLANDO BROME
10.67	TRIFOLIUM INCARMATUM, CIMSON CLOVER
10.66	TRIFOLIUM HIRTUM, ROSE CLOVER
5.34	VULPIA MYUROS, ZORRO FESCUE

**SA TYPE 3**

LBS. PER ACRER	SEED
10.00	CAREX BARBARA, BARBARA SEDGE
24.00	FESTUCA RUBA MOLATE, MOLATE RED FESCUE
6.00	DESCHAMPSIA CESPITOSA, TUFTED HAIRGRASS
2.00	JUNCUS EFFUSES, PACIFIC RUSH
2.00	JUNCUS PATENS, COMMON RUSH
2.00	CAREX DIVULSA, BERKELEY SEDGE
2.00	CAREX PRAEGRACILIS, DEER BED SEDGE

**SA TYPE 4**

3,500 LBS. PER ACRE BONDED FIBER MATRIX

**SIERRA VISTA OS SEED MIX**

**TYPE 1 AND 2 OS**

LBS. PER ACRE	SEED
1.0	CAREX BARBARA, BARBARA SEDGE
4.0	DESCHAMPSIA CESPITOSA, TUFTED HAIRGRASS
9.0	ELYMUS TRACHYCAULUS, SLENDER WHEATGRASS
9.0	HORDEUM BRACHYANTHRUM, MEADOW BARLEY
4.0	LEYMAS TRITICOIDES YOLO, CREEPING WILDRYE
3.0	TRIFOLIUM OBSTUSIFLORUM, CREEK CLOVER
20.00	ELYMUS X TRITICUM, REGREEN

**TYPE 3 AND 4 OS**

LBS. PER ACRE	SEED
9.0	STIPA PULCHRA, PURPLE NEEDLEGRASS (1)
7.0	MELICA CALIFORNIA, ONIONGRASS
6.0	FESTUCA IDAHOENSIS, IDAHO FESCUE
5.0	POA SECUNDA, NATIVE PINE BLUEGRASS
6.0	FESTUCA MICROSTACHYS, THREE WEEKS FESCUE (1)
6.0	ELYMUS GLAUCUS, BLUE WILDRYE
4.0	ELYMUS MULTISSETUS, SQUIRREL TAIL
20.0	ELYMUS X TRITICUM, REGREEN

**TYPICAL HYDROSEEDING @ 2000 LB/AC (PADS)**

- 1000 LB/AC - CELLULOSE FIBER (SPEC. ATTACHED)
- 1000 LB/AC - 100% VIRGIN WOOD FIBER (SPEC ATTACHED)
- 75 LB/AC - NON NATIVE SEED MIX (SPEC ATTACHED)
- 200 LB/AC - FERTILIZER 16-20-0 (SPEC ATTACHED)
- 150 LB/AC - TACKIFIER PLANTAGO (SPAC ATTACHED)

**2 STEP / STRAW & TAC**

- 1ST STEP  
4000 LB/AC - BLOWN WHEAT STRAW
- 2ND STEP  
500 LB/AC - CELLULOSE FIBER (SPEC. ATTACHED)  
150 LB/AC - TACKIFIER PLANTAGO (SPAC ATTACHED)

**2.5 STEP / STRAW & TAC WITH SEED AND FERTILIZER**

- 1ST STEP  
4000 LB/AC - BLOWN WHEAT STRAW
- 2ND STEP  
500 LB/AC - CELLULOSE FIBER (SPEC. ATTACHED)  
150 LB/AC - TACKIFIER PLANTAGO (SPAC ATTACHED)  
75 LB/AC - NON NATIVE SEED MIX (SPEC ATTACHED)  
200 LB/AC - FERTILIZER 16-20-0 (SPEC ATTACHED)



Subdivision Areas	
PROJECT :	Sierra Vista
Date	11/21/2017
<b>Type 1 SA</b>	<b>Subdivision Lot Areas</b>
	Sierra Vista Lot Hydroseed Mix 75 LB per AC Seed per Attached 1,000 LB per AC Hydrostraw 1,500 LB per AC Wood Mulch 200 LB per AC 5-3-2 Fertilizer 150 LB per AC Tackifier
<b>Type 2 SA</b>	<b>Subdivision Detention Basin &amp; Daylight Ditch</b>
	Compact Bioswale Hydroseed Mix 48 LB per AC Compact Bioswale Seed per Attached 1,000 LB per AC Hydrostraw 2,500 LB per AC Wood Mulch 200 LB per AC 5-3-2 Fertilizer 150 LB per AC Tackifier
<b>Type 3 SA</b>	<b>Subdivision Detention Basin &amp; Daylight Ditch With Blankets</b>
	STEP 1 Compact Bioswale Hydroseed Mix 24 LB per AC Compact Bioswale Seed per Attached 500 LB per AC Hydrostraw 1,250 LB per AC Wood Mulch 100 LB per AC 5-3-2 Fertilizer 75 LB per AC Tackifier STEP 2 Install Excel R-2 AN STEP 3 Compact Bioswale Hydroseed Mix 24 LB per AC Compact Bioswale Seed per Attached 500 LB per AC Hydrostraw 1,250 LB per AC Wood Mulch 100 LB per AC 5-3-2 Fertilizer 75 LB per AC Tackifier
<b>Type 4 SA</b>	<b>Planters Areas Along Streets With Planters Along Sound Walls</b>
	3,500 lbs per AC of Bonded Fiber Matrix
<b>Blanket SA</b>	<b>Subdivision Detention Basin &amp; Daylight Ditch Blanket</b>
	Excel R-2 AN
<b>Type 3 OS</b>	<b>Upland Above 3 ft in Open Space Areas</b>
	Step One Top Soil Development 4,500 LB per AC TerraVita Step Two Hydroseed 63 LB per AC Upland Seed per Attached 3,500 LB per AC Bonded Fiber Matrix
<b>Type 4 OS</b>	<b>Upland Above 3 ft in Open Space Areas with Blankets</b>
	Step One Top Soil Development 4,500 LB per AC TerraVita Step Two Hydroseed 63 LB per AC Upland Seed per Attached 1,750 LB per AC Bonded Fiber Matrix Step Three Hydroseed Install 700 Coir Netting Step Four Hydroseed 63 LB per AC Upland Seed per Attached 1,750 LB per AC Bonded Fiber Matrix
<b>Netting SA</b>	<b>Open Space Netting Areas</b>
	Coir 700 Netting
	<b>Open Space Areas</b>
<b>Type 1 OS</b>	<b>Lowland-Swale bottom to 3 ft above</b>
	Step One Top Soil Development 4,500 LB per AC TerraVita Step Two Hydroseed 50 LB per AC Swale Seed per Attached 3,500 LB per AC Bonded Fiber Matrix
	Sierra Vista -Lowland- Swale Mix PLS Lbs/Acre Seed T.00 Carex Barbarae, Barbara Sedge 4.00 Deschampsia Caespitosa, Tufted Hairgrass 9.00 Elymus Trachycaulus, Slender Wheatgrass 9.00 Hordeum brachyanthrum, Meadow Barley 4.00 Leymus Triticoides 'Yolo', Creeping Wildrye 3.00 Trifolium obtusiflorum, Creek Clover 20.00 Elymus X Triticum, Regreen 50 Lbs/Ac
<b>Type 2 OS</b>	<b>Upland- Above 3 ft in Open Space Areas</b>
	Step One Top Soil Development 4,500 LB per AC TerraVita Step Two Hydroseed 63 LB per AC Upland Seed per Attached 3,500 LB per AC Bonded Fiber Matrix
	Sierra Vista - Upland Mix PLS Lbs/Acre Seed 9.00 Stipa pulchra, Purple Needlegrass 7.00 Melica californica, Oniongrass 6.00 Festuca idahoensis, Idaho Fescue 5.00 Poa secunda, Native Pine Bluegrass 6.00 Festuca microstachys, Three Weeks Fescue 6.00 Elymus glaucus, Blue Wildrye 4.00 Elymus multisetus, Squirrel Tail 20.00 Elymus X Triticum, Regreen 63 Lbs/Ac

NO.	DESCRIPTION	ENGR INIT	CITY APPROVAL APPROVED BY	DATE	benchmark	CTY BM-71 elev.122.34(NVD29) elev.124.48(NAVD88)
(SEE SHEET NO.1)						

Lisa Barber Mattos RCE# 44852

PLOT DATE: 01-22-21	SCALE horiz: N/A vert: N/A 1/2021 date	drafted by: R.E. designed by: L.B.M. checked by: S.F.L. 609 field book
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**EROSION & SEDIMENT CONTROL & HYDROSEED NOTES**  
**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
 CITY OF ROSEVILLE      PLACER COUNTY      CALIFORNIA

SHEET 10 OF 11 SHEETS  
 20-06-24 JOB NUMBER

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2006024-MG-GRD-EC-DET-NTSZ

**AIR QUALITY**

**MM 4.4-1 DUST AND CONSTRUCTION CONTROL MEASURES**

IN ACCORDANCE WITH THE PCAPCD, THE APPLICANT SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS AS LISTED ABOVE (E.G., RULE 202, 218 AND 228). IN ADDITION, AT THE TIME OF TENTATIVE MAP THE APPLICANT(S) SHALL IMPLEMENT A MINIMUM OF FIVE (5) OF THE FOLLOWING MEASURES UNLESS SUPERSEDED BY STATE OR OTHER MORE STRINGENT STANDARDS:

THE FOLLOWING MITIGATION MEASURES SHALL BE IMPLEMENTED TO REDUCE SHORT-TERM CONSTRUCTION-RELATED AIR QUALITY IMPACTS. IN ADDITION, DUST CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED BY ALL PROJECTS IN ACCORDANCE WITH THE CITY OF ROSEVILLE GRADING ORDINANCE, AND THE PCAPCD FUGITIVE DUST RULE 228.

- APPLICANT SHALL SUBMIT TO PCAPCD A CONSTRUCTION EMISSION / DUST CONTROL PLAN WITHIN 30 DAYS PRIOR TO GROUND BREAKING. IF THE PCAPCD DOES NOT RESPOND WITHIN 20 DAYS, THE PLAN SHALL BE CONSIDERED APPROVED. THE PLAN MUST ADDRESS THE MINIMUM REQUIREMENTS FOUND IN SECTION 300 AND 400 OF DISTRICT RULE 228, FUGITIVE DUST (WWW.PLACER.CA.GOV/AIRPOLLUTION/AIRPOLUT.LHTML). THE APPLICANT SHALL KEEP A HARD OR ELECTRONIC COPY OF RULE 228, FUGITIVE DUST ON-SITE FOR REFERENCE.
- THE CONSTRUCTION EMISSION/DUST CONTROL PLAN SHALL INCLUDE A COMPREHENSIVE INVENTORY (I.E. MAKE, MODEL, YEAR, EMISSION RATING) OF ALL HEAVY-DUTY OFF-ROAD EQUIPMENT (50 HORSEPOWER (HP) OR GREATER) THAT WILL BE USED AN AGGREGATE OF 40 OR MORE HOURS FOR THE CONSTRUCTION PROJECT. THE PROJECT REPRESENTATIVE SHALL PROVIDE PCAPCD WITH THE ANTICIPATED CONSTRUCTION TIMELINE INCLUDING START DATE, AND NAME AND PHONE NUMBER OF THE PROJECT MANAGER AND ON-SITE FOREMAN. THE PLAN SHALL DEMONSTRATE THAT THE HEAVY-DUTY (> 50 HP) OFF-ROAD VEHICLES TO BE USED IN THE CONSTRUCTION PROJECT, INCLUDING OWNED, LEASED AND SUBCONTRACTOR VEHICLES, WILL ACHIEVE A PROJECT WIDE FLEET-AVERAGE 20% NOX REDUCTION AND 45% PARTICULATE REDUCTION COMPARED TO THE MOST RECENT ARB FLEET AVERAGE. PCAPCD SHALL BE CONTACTED FOR AVERAGE FLEET EMISSION DATA. ACCEPTABLE OPTIONS FOR REDUCING EMISSIONS MAY INCLUDE USE OF LATE MODEL ENGINES, LOW-EMISSION DIESEL PRODUCTS, ALTERNATIVE FUELS, ENGINE RETROFIT TECHNOLOGY, AFTER-TREATMENT PRODUCTS, AND/OR OTHER OPTIONS AS THEY BECOME AVAILABLE. CONTRACTORS CAN ACCESS THE SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT'S WEB SITE TO DETERMINE IF THEIR OFF-ROAD FLEET MEETS THE REQUIREMENTS LISTED IN THIS MEASURE (HTTP://WWW.AIRQUALITY.ORG/CEQA/CONSTRUCTION\_MITIGATION\_CALCULATOR.XLS).

THE FOLLOWING MEASURES ARE ALSO INCLUDED TO REDUCE CONSTRUCTION-RELATED ROG, NOX, PM10 AND PM2.5 EMISSIONS:

- ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED IN GOOD OPERATING CONDITION. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION EQUIPMENT IS BEING PROPERLY SERVICED AND MAINTAINED AS PER THE MANUFACTURER'S SPECIFICATIONS. MAINTENANCE RECORDS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE FOR VERIFICATION. THIS MEASURE WILL REDUCE COMBUSTION EMISSIONS OF ALL CRITERIA AIR POLLUTANTS.
- PRIOR TO THE ISSUANCE OF ANY GRADING PERMITS, ALL APPLICANTS SHALL SUBMIT CONSTRUCTION PLANS DENOTING THE PROPOSED SCHEDULE AND PROJECTED EQUIPMENT USE. CONSTRUCTION CONTRACTORS SHALL PROVIDE EVIDENCE THAT LOW EMISSION MOBILE CONSTRUCTION WILL BE USED, OR THAT THEIR USE WAS INVESTIGATED AND FOUND TO BE INFEASIBLE FOR THE PROJECT. LOW EMISSION EQUIPMENT IS DEFINED AS MEETING THE CALIFORNIA AIR RESOURCES BOARD'S TIER III STANDARDS. CONTRACTORS SHALL ALSO CONFORM TO ANY CONSTRUCTION MEASURES IMPOSED BY THE PCAPCD AS WELL AS CITY PLANNING STAFF. THIS MEASURE WILL PRIMARILY REDUCE ROG, NOX, PM10, AND PM2.5 EXHAUST EMISSIONS.
- PAINTS AND COATING SHALL BE APPLIED EITHER BY HAND OR BY HIGH VOLUME, LOW-PRESSURE SPRAY. THIS MEASURE WILL REDUCE EVAPORATIVE ROG EMISSIONS.
- ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING MEASURES TO REDUCE FUGITIVE DUST RELATED EMISSIONS OF PM10 AND PM2.5:
  - o MAINTAIN A MINIMUM 24-INCH FREBOARD ON SOIL HAUL TRUCKS OR COVER PAYLOADS USING TARPS OR OTHER SUITABLE MEANS.
  - o SUSPEND GRADING OPERATIONS DURING HIGH WINDS (GREATER THAN 15 MPH).
  - o SWEEP STREETS AS NECESSARY IF SILT IS CARRIED OFF-SITE TO ADJACENT PUBLIC THROUGHFARES OR OCCURS AS A RESULT OF HAULING.
  - o DISPOSE OF SURPLUS EXCAVATED MATERIAL IN ACCORDANCE WITH LOCAL ORDINANCES AND USE SOUND ENGINEERING PRACTICES.
  - o SCHEDULE ACTIVITIES TO MINIMIZE THE AMOUNTS OF EXPOSED EXCAVATED SOIL DURING AND AFTER THE END OF WORK PERIODS.
  - o PHASE GRADING INTO SMALLER AREAS TO PREVENT THE SUSCEPTIBILITY OF LARGER AREAS TO EROSION OVER EXTENDED PERIODS OF TIME.
  - o PAVE OR APPLY GRAVEL TO ANY ON-SITE HAUL ROADS.
  - o REESTABLISH GROUND COVER ON THE CONSTRUCTION SITE THROUGH SEEDING AND WATER.
  - o CLEAN EARTH MOVING CONSTRUCTION EQUIPMENT WITH WATER OR SWEEP CLEAN, ONCE PER DAY, OR AS NECESSARY (E.G., WHEN MOVING ON-SITE), CONSISTENT WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM BEST MANAGEMENT PRACTICES AND THE ROSEVILLE GRADING ORDINANCE. WATER SHALL BE APPLIED TO CONTROL DUST AS NEEDED TO PREVENT DUST IMPACTS OFFSITE. OPERATIONAL WATER TRUCK(S), SHALL BE ON-SITE, AS REQUIRED, TO CONTROL FUGITIVE DUST. CONSTRUCTION VEHICLES LEAVING THE SITE SHALL BE CLEANED, AS NEEDED, TO PREVENT DUST, SILT, MUD, AND DIRT FROM BEING RELEASED OR TRACKED OFF-SITE.
  - o SPREAD SOIL BINDERS ON UNPAVED ROADS AND EMPLOYEE/EQUIPMENT PARKING AREAS. SOIL BINDERS SHALL BE NON-TOXIC IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. APPLY APPROVED CHEMICAL SOIL STABILIZERS, OR VEGETATED MATS, ETC. ACCORDING TO MANUFACTURERS' SPECIFICATIONS, TO ALL-INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS WHICH REMAIN INACTIVE FOR 96 HOURS).
  - o MINIMIZE DIESEL IDLING TIME TO A MAXIMUM OF FIVE MINUTES.
  - o UTILIZE EXISTING POWER SOURCES (E.G., POWER POLES) OR CLEAN FUEL GENERATORS RATHER THAN TEMPORARY DIESEL POWER GENERATORS, IF FEASIBLE.
  - o AN APPLICANT REPRESENTATIVE, ARB-CERTIFIED TO PERFORM FLEET EMISSIONS EVALUATIONS (VEE), SHALL ROUTINELY (I.E. ONCE PER WEEK) EVALUATE PROJECT RELATED OFF-ROAD AND HEAVY-DUTY ON-ROAD EQUIPMENT EMISSIONS FOR COMPLIANCE WITH THIS REQUIREMENT FOR PROJECTS GRADING MORE THAN 20 ACRES IN SIZE, REGARDLESS OF HOW MANY ACRES ARE TO BE DISTURBED DAILY.
  - o CONSTRUCTION EQUIPMENT EXHAUST EMISSIONS SHALL NOT EXCEED THE PCAPCD VISIBLE EMISSIONS RULE 202. FUGITIVE DUST IS NOT TO EXCEED 40% OPACITY AND NOT GO BEYOND PROPERTY BOUNDARY AT ANY TIME. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS ARE TO BE IMMEDIATELY NOTIFIED AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS.

THE CITY OF ROSEVILLE IS CURRENTLY WORKING WITH THE PLACER COUNTY POLLUTION CONTROL DISTRICT TO UPDATE THE STANDARD MITIGATION MEASURES. THE FOLLOWING MEASURES WILL LIKELY BE REQUIRED AT THE TIME SPECIFIC DEVELOPMENT IS PROPOSED.

**NEW STANDARD CONDITION OF APPROVAL (FOR ALL PROJECTS):**

THE PROJECT SHALL COMPLY WITH ALL APPLICABLE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT RULES AND REGULATIONS, AND SHALL OBTAIN APPLICABLE PERMITS AND/OR CLEARANCES FROM THE DISTRICT PRIOR TO THE START OF CONSTRUCTION.

THE FOLLOWING AIR QUALITY NOTES SHALL BE ADDED TO THE GRADING AND/OR IMPROVEMENT PLANS:

- THE CONTRACTOR SHALL USE CARB ULTRA-LOW SULFUR DIESEL FUEL FOR ALL DIESEL-POWERED EQUIPMENT. IN ADDITION, LOW SULFUR FUEL SHALL BE UTILIZED FOR ALL STATIONARY EQUIPMENT. (CALIFORNIA STANDARDS FOR MOTOR VEHICLE DIESEL FUEL, TITLE 13, ARTICLE 4.8, CHAPTER 9, CALIFORNIA CODE OF REGULATIONS).
- PROCESSES THAT DISCHARGE 2 POUNDS PER DAY OR MORE OF AIR CONTAMINANTS, AS DEFINED BY HEALTH AND SAFETY CODE SECTION 39013, TO THE ATMOSPHERE MAY REQUIRE A PERMIT. PERMITS ARE REQUIRED FOR BOTH CONSTRUCTION AND OPERATION. DEVELOPERS/CONTRACTORS SHOULD CONTACT THE DISTRICT PRIOR TO CONSTRUCTION AND OBTAIN ANY NECESSARY PERMITS PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. (RULE 501)
- PURSUANT TO THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT RULE 501, GENERAL PERMIT REQUIREMENTS, THE PROPOSED PROJECT MAY NEED A PERMIT FROM THE DISTRICT PRIOR TO CONSTRUCTION. IN GENERAL, ANY ENGINE GREATER THAN 50 BRAKE HORSEPOWER OR ANY BOILER WITH HEAT GREATER THAN 1,000,000 BTU PER HOUR SHALL REQUIRE A PERMIT ISSUED BY THE DISTRICT. (RULE 501)

- ALL ON-SITE STATIONARY EQUIPMENT WHICH IS CLASSIFIED AS 50 HP OR GREATER SHALL EITHER OBTAIN A STATE ISSUED PORTABLE EQUIPMENT PERMIT OR A PLACER COUNTY APCD ISSUED PORTABLE EQUIPMENT PERMIT. (CALIFORNIA PORTABLE EQUIPMENT REGISTRATION PROGRAM, SECTION 2452).
- THE CONTRACTOR SHALL UTILIZE EXISTING POWER SOURCES (E.G., POWER POLES) OR CLEAN FUEL GENERATORS RATHER THAN TEMPORARY DIESEL POWER GENERATORS IF FEASIBLE.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MINIMIZE IDLING TIME TO A MAXIMUM OF 5 MINUTES FOR ALL DIESEL POWERED EQUIPMENT.
- DURING CONSTRUCTION, TRAFFIC SPEEDS ON ALL UNPAVED SURFACES SHALL BE LIMITED TO 15 MILES PER HOUR OR LESS. (RULE 228 / SECTION 401.2)

CONTACT THE APCD PRIOR TO THE NEW EQUIPMENT BEING UTILIZED. AT LEAST THREE BUSINESS DAYS PRIOR TO THE USE OF SUBJECT HEAVY-DUTY OFF-ROAD EQUIPMENT, THE PROJECT REPRESENTATIVE SHALL PROVIDE THE DISTRICT WITH THE ANTICIPATED CONSTRUCTION TIMELINE INCLUDING START DATE, AND NAME AND PHONE NUMBER OF THE PROPERTY OWNER, PROJECT MANAGER, AND ON-SITE FOREMAN.

1. PRIOR TO APPROVAL OF GRADING/IMPROVEMENT PLANS, THE APPLICANT SHALL PROVIDE A PLAN TO THE PLACER COUNTY APCD FOR APPROVAL BY THE DISTRICT DEMONSTRATING THAT THE HEAVY-DUTY (> 50 HORSEPOWER) OFF-ROAD VEHICLES TO BE USED IN THE CONSTRUCTION PROJECT, INCLUDING OWNED, LEASED AND SUBCONTRACTOR VEHICLES, WILL ACHIEVE A PROJECT WIDE FLEET-AVERAGE 20 PERCENT NOX REDUCTION AND 45 PERCENT PARTICULATE REDUCTION COMPARED TO THE MOST RECENT CARB FLEET AVERAGE. ACCEPTABLE OPTIONS FOR REDUCING EMISSIONS MAY INCLUDE USE OF LATE MODEL ENGINES, LOW-EMISSION DIESEL PRODUCTS, ALTERNATIVE FUELS, ENGINE RETROFIT TECHNOLOGY, AFTER-TREATMENT PRODUCTS, AND/OR OTHER OPTIONS AS THEY BECOME AVAILABLE.
2. INCLUDE THE FOLLOWING STANDARD NOTE ON THE IMPROVEMENT/GRADING PLAN: IF REQUIRED BY THE PUBLIC WORKS DEPARTMENT, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING PRIOR TO GRADING ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE PLACER COUNTY APCD TO THE PRE-CONSTRUCTION MEETING IN ORDER TO DISCUSS THE CONSTRUCTION EMISSION/DUST CONTROL PLAN WITH EMPLOYEES AND/OR CONTRACTORS.
3. DIESEL TRUCKS SHALL BE PROHIBITED FROM IDLING MORE THAN FIVE MINUTES. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL SHOW THAT ALL TRUCK LOADING AND UNLOADING DOCKS SHALL BE EQUIPPED WITH ONE 110/208 VOLT POWER OUTLET FOR EVERY TWO DOCK DOORS. DIESEL TRUCKS IDLING FOR MORE THAN FIVE MINUTES SHALL BE REQUIRED TO CONNECT TO THE 110/208 VOLT POWER TO RUN ANY AUXILIARY EQUIPMENT. 2'X3' SIGNAGE WHICH INDICATES 'DIESEL ENGINE IDLING LIMITED TO A MAXIMUM OF 5 MINUTES' SHALL BE SHOWN ON THE BUILDING ELEVATIONS AND SHALL BE SUBMITTED TO THE PLACER COUNTY APCD PRIOR TO THE ISSUANCE OF BUILDING PERMITS FOR THE PROJECT.
4. PRIOR TO APPROVAL OF IMPROVEMENT PLANS, AN ENFORCEMENT PLAN SHALL BE ESTABLISHED, AND SUBMITTED TO THE APCD FOR REVIEW, IN ORDER TO EVALUATE PROJECT-RELATED ON-AND-OFF-ROAD HEAVY-DUTY VEHICLE ENGINE EMISSION OPACITIES ON A WEEKLY BASIS, USING STANDARDS AS DEFINED IN CALIFORNIA CODE OF REGULATIONS, TITLE 13, SECTIONS 2180 – 2194. AN ENVIRONMENTAL COORDINATOR, HIRED BY THE PRIME CONTRACTOR OR PROPERTY OWNER, AND WHO IS CARB-CERTIFIED TO PERFORM VISIBLE EMISSIONS EVALUATIONS (VEE), SHALL ROUTINELY EVALUATE PROJECT RELATED OFF-ROAD AND HEAVY DUTY ON-ROAD EQUIPMENT EMISSIONS FOR COMPLIANCE WITH THIS REQUIREMENT. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS WILL BE NOTIFIED BY APCD AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. (CALIFORNIA CODE OF REGULATIONS, TITLE 13, SECTIONS 2180 – 2194).

**MM 4.6-1 CONSTRUCTION NOISE REDUCTION**

- **MM 4.6-1(A):** CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ROSEVILLE NOISE ORDINANCE.
- **MM4.6-1(B):** LOCATE FIXED CONSTRUCTION EQUIPMENT SUCH AS COMPRESSORS AND GENERATORS AS FAR AS POSSIBLE FROM SENSITIVE RECEPTORS. SHROUD OR SHIELD ALL IMPACT TOOLS, AND MUFFLE OR SHIELD ALL IN-TAKE AND EXHAUST PORTS ON POWER CONSTRUCTION EQUIPMENT.
- **MM 4.6-1(C):** DESIGNATE A CONSTRUCTION DISTURBANCE COORDINATOR AND CONSPICUOUSLY POST THE COORDINATOR'S CONTACT INFORMATION AROUND THE PROJECT SITE AND IN ADJACENT PUBLIC SPACES. THE DISTURBANCE COORDINATOR WILL RECEIVE ALL PUBLIC COMPLAINTS ABOUT CONSTRUCTION NOISE DISTURBANCES, AND WILL BE RESPONSIBLE FOR DETERMINING THE CAUSE OF THE COMPLAINT, AND IMPLEMENTING ANY FEASIBLE MEASURES TO BE TAKEN TO ALLEVIATE THE PROBLEM.
- **MM 4.6-1(D):** WELL DRILLING SHALL OCCUR PRIOR TO CONSTRUCTION OF THE ADJACENT SUBDIVISION, TO THE EXTENT FEASIBLE. IF CONSTRUCTION TIMING FOR THE WELLS OCCURS AFTER SUBDIVISION CONSTRUCTION, THEN MEASURES TO REDUCE NOISE SHALL INCLUDE: HANGING FLEXIBLE SOUND CONTROL CURTAINS AROUND THE DRILLING APPARATUS, AND THE DRILL RIG, TO THE DEGREE FEASIBLE, AS DETERMINED BY THE ENVIRONMENTAL UTILITIES DIRECTOR, IF LOCATED WITHIN 1,000- FEET OF AN OCCUPIED RESIDENCE.

**MM 4.6-2 & 4.4-1 COMMERCIAL NOISE CONTROLS:**

- IN GENERAL, WHERE COMMERCIAL LAND USES ADJOIN RESIDENTIAL PROPERTY LINES, THE FOLLOWING MEASURES SHOULD BE INCLUDED IN THE DESIGN OF THE COMMERCIAL USE. IF THE PRIMARY NOISE SOURCES ARE PARKING LOT NOISE, HVAC EQUIPMENT AND LIGHT TRUCK DELIVERIES, THEN 6-7 FOOT TALL MASONRY WALLS SHALL BE CONSTRUCTED TO PROVIDE ADEQUATE ISOLATION OF PARKING LOT AND DELIVERY TRUCK ACTIVITIES. HVAC EQUIPMENT SHALL BE LOCATED EITHER AT GROUND LEVEL, OR WHEN LOCATED ON ROOF-TOPS THE BUILDING FACADES SHALL INCLUDE PARAPETS FOR SHIELDING.
- WHERE COMMERCIAL USES ADJOIN COMMON RESIDENTIAL PROPERTY LINES, AND LOADING DOCKS OR TRUCK CIRCULATION ROUTES FACE THE RESIDENTIAL AREAS, THE FOLLOWING MITIGATION MEASURES SHALL BE INCLUDED IN THE PROJECT DESIGN:
  - o LOADING DOCKS AND TRUCK DELIVERY AREAS SHALL MAINTAIN A MINIMUM DISTANCE OF 30 FEET FROM RESIDENTIAL PROPERTY LINES;
  - o PROPERTY LINE BARRIERS SHALL BE 6 TO 8 FEET IN HEIGHT. CIRCULATION ROUTES FOR TRUCKS SHOULD BE LOCATED A MINIMUM OF 30- FEET FROM RESIDENTIAL PROPERTY LINES;
  - o ALL HEATING, COOLING AND VENTILATION EQUIPMENT SHALL BE LOCATED WITHIN MECHANICAL ROOMS WHERE POSSIBLE;
  - o ALL HEATING, COOLING AND VENTILATION EQUIPMENT SHALL BE SHIELDED FROM VIEW WITH SOLID BARRIERS;
  - o EMERGENCY GENERATORS SHALL COMPLY WITH THE LOCAL NOISE CRITERIA AT THE NEAREST NOISE-SENSITIVE RECEPTORS.
- IN CASES WHERE LOADING DOCKS OR TRUCK DELIVERY CIRCULATION ROUTES ARE LOCATED LESS THAN 100 FEET FROM RESIDENTIAL PROPERTY LINES, AN ACUSTICAL EVALUATION SHALL BE SUBMITTED TO VERIFY COMPLIANCE WITH THE CITY OF ROSEVILLE NOISE LEVEL PERFORMANCE STANDARDS.

**MM 4.6-4: TRAFFIC NOISE ATTENUATION**

**MM 4.6-4(A):** MASONRY WALLS AND/OR LANDSCAPED BERMS SHALL BE CONSTRUCTED ALONG THE MAJOR PROJECT-AREA ROADWAYS ADJACENT TO PROPOSED RESIDENTIAL USES IF ACOUSTICAL STUDIES WARRANT SOUND ATTENUATION, OTHERWISE STANDARD WOOD FENCING IS ACCEPTABLE. DRAFT EIR TABLE 4.6-10 DATA SHALL BE CONSULTED TO DETERMINE APPROPRIATE BARRIER HEIGHTS. IF THE ASSUMPTIONS SHOWN IN TABLE 4.6-10 VARY CONSIDERABLY, A DETAILED ANALYSIS OF EXTERIOR AND INTERIOR MITIGATION MEASURES SHOULD BE CONDUCTED WHEN TENTATIVE MAPS BECOME AVAILABLE.

**MM 4.6-4(B):** IN AREAS REQUIRING SOUND ATTENUATION, NOISE BARRIER WALLS SHALL BE CONSTRUCTED OF CONCRETE PANELS, CONCRETE MASONRY UNITS, EARTHEN BERMS, OR ANY COMBINATION OF THESE MATERIALS. WOOD IS NOT RECOMMENDED FOR CONSTRUCTION DUE TO EVENTUAL WARPING AND DEGRADATION OF ACOUSTICAL PERFORMANCE.

MM 4.6-4(C): TENTATIVE MAP APPLICATIONS FOR RESIDENTIAL USES LOCATED ALONG FIDDIYMENT ROAD WOULD BE REQUIRED TO INCLUDE AN ANALYSIS OF INTERIOR NOISE LEVELS. THE REPORT SHALL BE CONDUCTED BY A QUALIFIED ACOUSTICAL ENGINEER AND SHALL SPECIFY THE MEASURES REQUIRED TO ACHIEVE COMPLIANCE WITH THE CITY OF ROSEVILLE 45 DB LDN INTERIOR NOISE LEVEL STANDARD.

**MM 4.7-13 RIPARIAN HABITAT POLICIES**

- TO PROTECT RIPARIAN VEGETATION WITHIN THE SOI AMENDMENT AREA SVSP AND URBAN RESERVE AREAS, THE FOLLOWING POLICIES SHALL BE IMPLEMENTED:
    - a) THE PROJECT APPLICANT SHALL PROVIDE FOR TEMPORARY FENCING ALONG THE TOP OF THE BANK DURING CONSTRUCTION OF THOSE AREAS OF THE PROPOSED PROJECT ADJACENT TO RIPARIAN HABITAT TO DISCOURAGE ACCESS TO THE RIPARIAN HABITAT BY HUMANS AND PETS.
    - b) THE PROJECT APPLICANT SHALL PROVIDE FOR PERMANENT FENCING AND/OR A LANDSCAPE BARRIER TO DISCOURAGE ACCESS TO THE RIPARIAN HABITAT BY HUMANS AND PETS. THE FENCING AND/OR LANDSCAPE BARRIER SHALL BE PLACED AT THE TOP OF THE BANK OF THE CREEKS ALONG THOSE PORTIONS OF THE SITE ADJACENT TO RIPARIAN HABITAT. THE PROPOSED RECREATION TRAIL SHALL BE ON THE PROJECT SITE SIDE OF THE FENCE/LANDSCAPE BARRIER. THE FENCING AND/OR LANDSCAPE BARRIER SHALL BE CONSTRUCTED OF WOOD OR OTHER NATURAL MATERIALS AND SHALL ALLOW FOR THE VIEWING OF THE RIPARIAN HABITAT WHILE DISCOURAGING ACCESS.
    - c) INTERPRETIVE SIGNS AND DISPLAYS SHALL BE POSTED ALONG THE BORDER OF THE RIPARIAN AREA TO EDUCATE THE PUBLIC AND ROUTE ACCESS AWAY FROM SENSITIVE AREAS. THESE INFORMATIVE SIGNS WILL BE POSTED AT INTERVALS DETERMINED APPROPRIATE BY THE CITY OF ROSEVILLE PARKS AND RECREATION DIRECTOR ALONG THE BORDER WITH INFORMATION REGARDING THE OBJECTIVES OF CREEK AND RIPARIAN HABITAT PROTECTION. SIGNS SHOULD ALSO INCLUDE INFORMATION REGARDING THE IMPORTANCE OF RESTRICTING ACCESS TO THE RIPARIAN AREA BY HOUSEHOLD PETS. SUCH SIGNS WILL BE MADE OF WOOD OR SIMILAR NATURAL MATERIAL, AND BE MAINTAINED BY THE APPLICANT.
    - d) LIGHTING ADJACENT TO RIPARIAN BUFFERS SHOULD BE SHIELDED AWAY FROM THE RIPARIAN AREAS.
  - **USE LOW-GLARE MATERIALS FOR NEW DEVELOPMENT**
- IN ORDER TO REDUCE THE EFFECTS OF DAYTIME GLARE FROM DEVELOPMENT OF COMMERCIAL OR OFFICE USES WITHIN THE SVSP AREA, BUILDING DEVELOPERS SHOULD MAKE USE, WHEN FEASIBLE, OF LOW-GLARE MATERIALS.

**VEGETATION AND WILDLIFE**

**MM 4.8-1 (A): ENSURE NO NET LOSS OF WETLANDS**

CONSISTENT WITH THE CLEAN WATER ACT AND THE CITY OF ROSEVILLE GENERAL PLAN, THE SVSP SHALL ACHIEVE NO NET LOSS OF WETLANDS. AS USED HERE, "NO NET LOSS OF WETLANDS" MEANS NO NET LOSS OF WETLANDS ACREAGE, VALUES AND FUNCTION, AND SHALL ACCOUNT FOR ALL WETLANDS IMPACTED BY THE PROJECT, BOTH DIRECTLY (E.G., FILLED OR DRAINED) AND INDIRECTLY (E.G., FROM POLLUTED AND ACCELERATED RUNOFF, DAMAGE CAUSED BY HUMAN OR DOMESTIC ANIMAL ACCESS, WHICH INDICATES "DIESEL ENGINE IDLING LIMITED TO A MAXIMUM OF 5 MINUTES" SHALL BE SHOWN ON THE BUILDING ELEVATIONS AND SHALL BE SUBMITTED TO THE PLACER COUNTY APCD PRIOR TO THE ISSUANCE OF BUILDING PERMITS FOR THE PROJECT.

THE CLEAN WATER ACT SECTION 404 PERMIT PROCESS (INCLUDING SECTION 7 CONSULTATION UNDER FESA) IS THE STANDARD METHOD FOR DEVELOPING MITIGATION FOR PROJECTS THAT AFFECT WETLANDS AND VERNAL POOL SPECIES SUCH AS SPECIAL-STATUS PLANTS, VERNAL POOL CRUSTACEANS, AND WESTERN SPADEFEET. THROUGH THIS PROCESS, PROJECT APPLICANTS WILL BE REQUIRED TO ACQUIRE THE NECESSARY PERMITS AND APPROVALS TO IMPLEMENT THEIR PROPOSED PROJECT WHILE REMAINING IN COMPLIANCE WITH THE CLEAN WATER ACT AND FESA. IF A 404 PERMIT IS NOT OBTAINED, THE SVSP PROJECT WILL NOT BE ISSUED GRADING PERMIT. THE OBLIGATION TO OBTAIN THIS PERMIT WILL ENSURE NO NET LOSS TO FEDERALLY PROTECTED WETLANDS. EVEN AFTER OBTAINING SUCH A PERMIT, HOWEVER, THE APPLICANTS MUST DEMONSTRATE TO THE CITY'S PLANNING DIRECTOR THAT THEY HAVE ALSO ACHIEVED NO NET LOSS OF WETLANDS. MITIGATION SHALL CONSIST OF A COMBINATION OF THE PRESERVATION OF ON-SITE VERNAL POOL HABITAT AND THE ACQUISITION OF OFF-SITE PROPERTY WITH EXISTING VERNAL POOL HABITAT FOR PRESERVATION. ADDITIONALLY, MITIGATION SHALL INCLUDE OFF-SITE CREATION AND/OR RESTORATION OF VERNAL POOL HABITAT, AND RESTORATION OF ASSOCIATED UPLANDS IN A MANNER THAT ADVERSELY AFFECTS WETLAND BANKS APPROVED BY THE CORPS AND USFWS. THESE BANKS CHARGE FEES IN EXCHANGE FOR CREDITS THAT ARE BASED UPON THE MITIGATION OBLIGATION OF THE APPLICANT. THE FEE IS USED FOR WETLANDS THAT HAVE BEEN RESTORED, CREATED, ENHANCED, AND/OR PRESERVED AT AN ESTABLISHED MITIGATION BANK. THE CREDITS SHALL BE IN DIRECT PROPORTION TO THE WETLAND IMPACTS RESULTING FROM THE PROJECT. THE PROJECT APPLICANTS HAVE IDENTIFIED APPROPRIATE OFF-SITE MITIGATION AS SHOWN IN FIGURE 4.8-3. THIS RESTORATION COUPLED WITH ON-SITE CREATION WILL BE A COMPONENT OF THE REQUIRED COMPENSATION FOR THE PROJECT. ALL WETLAND RESTORATION AND CREATION SHALL BE CONDUCTED IN A MANNER CONSISTENT WITH APPLICABLE CORPS OF ENGINEERS AND USFWS MITIGATION GUIDELINES AND POLICIES.

**MM 4.8-3 AVOID NESTING SITES**

- TO ENSURE THAT FULLY PROTECTED BIRD AND RAPTOR SPECIES ARE NOT INJURED OR DISTURBED BY CONSTRUCTION IN THE VICINITY OF NESTING HABITAT, THE PROJECT APPLICANT SHALL IMPLEMENT THE FOLLOWING MEASURES:
  - o RAPTORS
    - a) WHEN FEASIBLE, ALL TREE REMOVAL SHALL OCCUR BETWEEN AUGUST 30TH AND FEBRUARY 15TH TO AVOID THE BREEDING SEASON OF ANY RAPTOR SPECIES THAT COULD BE USING THE AREA, AND TO DISCOURAGE HAWKS FROM NESTING IN THE VICINITY OF AN UPCOMING CONSTRUCTION AREA.
    - b) FOR SWAINSON'S HAWK, IF AVOIDANCE OF TREE REMOVAL OUTSIDE THE BREEDING SEASON IS NOT FEASIBLE, AND A NEST IS PRESENT, THE APPLICANTS WOULD BE REQUIRED TO OBTAIN A 2081 PERMIT FROM CDFG TO MITIGATE FOR POTENTIAL "TAKE" UNDER CESA. IF NO NESTING IS OCCURRING, A TAKE PERMIT WOULD NOT BE REQUIRED.
    - c) PRIOR TO THE BEGINNING OF MASS GRADING, INCLUDING GRADING FOR MAJOR INFRASTRUCTURE IMPROVEMENTS, DURING THE PERIOD BETWEEN FEBRUARY 15TH AND AUGUST 30TH, ALL TREES AND POTENTIAL BURROWING OWL HABITAT WITHIN 350 FEET OF ANY GRADING OR EARTHMOVING ACTIVITY SHALL BE SURVEYED FOR ACTIVE RAPTOR NESTS OR BURROWS BY A QUALIFIED BIOLOGIST NO MORE THAN 30-DAYS PRIOR TO DISTURBANCE. IF ACTIVE RAPTOR NESTS OR BURROWS ARE FOUND, AND THE SITE IS WITHIN 350- FEET OF POTENTIAL CONSTRUCTION ACTIVITY, A HIGHLY VISIBLE TEMPORARY FENCE SHALL BE ERCTED AROUND THE TREE OR BURROW(S) AT A DISTANCE OF UP TO 350- FEET, DEPENDING ON THE SPECIES, FROM THE EDGE OF THE CANOPY TO PREVENT CONSTRUCTION DISTURBANCE AND INTRUSIONS ON THE NEST AREA.
    - d) PRE-CONSTRUCTION AND NON-BREEDING SEASON EXCLUSION MEASURES SHALL BE DEVELOPED IN CONSULTATION WITH CDFG, AND SHALL PRECLUDE BURROWING OWL OCCUPATION OF THE PORTIONS OF THE PROJECT SITE SUBJECT TO DISTURBANCE SUCH AS GRADING. BURROWING OWLS MAY BE PASSIVELY EXCLUDED FROM BURROWS IN CONSTRUCTION AREAS BY PLACING ONE-WAY DOORS IN THE BURROWS ACCORDING TO CDFG PROTOCOL. THE ONE-WAY DOORS MUST BE IN PLACE FOR A MINIMUM OF THREE DAYS. ALL BURROWS THAT MAY BE OCCUPIED BY BURROWING OWLS REGARDLESS OF WHETHER THEY EXHIBIT SIGNS OF OCCUPATION MUST BE CLEARED WITH THE ONE WAY DOORS. BURROWS THAT HAVE BEEN CLEARED THROUGH THE USE OF THE ONE-WAY DOORS SHALL THEN BE CLOSED OR BACKFILLED TO PREVENT OWLS FROM ENTERING THE BURROW.
    - e) NO CONSTRUCTION VEHICLES SHALL BE PERMITTED WITHIN RESTRICTED AREAS (I.E., RAPTOR PROTECTION ZONES) UNLESS DIRECTLY RELATED TO THE MANAGEMENT OR PROTECTION OF THE LEGALLY PROTECTED SPECIES.
    - f) IF A LEGALLY PROTECTED SPECIES NEST IS LOCATED IN A TREE DESIGNATED FOR REMOVAL, THE REMOVAL SHALL BE DEFERRED UNTIL AFTER AUGUST 30TH OR UNTIL THE ADULTS AND YOUNG OF THE YEAR ARE NO LONGER DEPENDENT ON THE NEST SITE AS DETERMINED BY A QUALIFIED BIOLOGIST.

BLACK RAILS AND TRI-COLORED BLACKBIRDS

PRIOR TO EARTH MOVING THAT WOULD DISTURB MARSH HABITAT, A QUALIFIED BIOLOGIST SHALL CONDUCT SURVEYS TO DETERMINE THE PRESENCE OF THE CALIFORNIA BLACK RAIL. IF EITHER OF THESE SPECIES IS FOUND, ALL EARTH MOVING WITHIN 250 FEET SHALL STOP AND MEASURES, INCLUDING ESTABLISHING BARRIERS ALONG BOTH SIDES OF CURRY CREEK DURING THE NESTING SEASON (GENERALLY FEBRUARY 1 THROUGH AUGUST 31ST) SHALL BE IMPLEMENTED.

ROOKERIES

NO HERON ROOKERIES ARE PRESENT WITHIN THE PLAN AREA. PRIOR TO EARTHMOVING THAT WOULD DISTURB MARSH HABITAT OR TREE REMOVAL OF THE EUCALYPTUS GROVE, PRE-CONSTRUCTION SURVEYS SHOULD BE CONDUCTED TO VERIFY THAT NO ROOKERIES HAVE BEEN ESTABLISHED. IF ROOKERIES ARE PRESENT ALL EARTH MOVING WITHIN 250-FEET SHALL STOP, DURING THE BREEDING SEASON.

**MM 4.8-7 OFF-SITE SURVEYS**

PRIOR TO CONSTRUCTION OF ANY OFF-SITE INFRASTRUCTURE, A QUALIFIED BIOLOGIST SHALL PERFORM DETAILED, AND IF NECESSARY, FOCUSED BIOLOGICAL SURVEYS OF ANY UNDISTURBED AREAS THAT WOULD BE AFFECTED BY INFRASTRUCTURE DEVELOPMENT. BECAUSE INFRASTRUCTURE FOR THE PROPOSED PROJECT WOULD BE LOCATED IN ROAD RIGHT-OF-WAY, OR UNDEVELOPED LAND SIMILAR TO THE PROJECT SITE, THE BIOLOGICAL RESOURCES THAT WOULD BE EXPECTED TO OCCUR WOULD NOT DIFFER SUBSTANTIALLY FROM THOSE IDENTIFIED IN THIS EIR. IF IT IS DETERMINED THAT WETLAND RESOURCES OR SENSITIVE SPECIES WOULD BE IMPACTED MM 4.8-1 AND MM 4.8-2 SHALL BE IMPLEMENTED, AS APPROPRIATE TO THE RESOURCE. IF IT IS DETERMINED THAT ACTIVE NESTS EXIST WITHIN THE OFF-SITE IMPROVEMENT LOCATION, MM 4.8-3 SHALL BE IMPLEMENTED AS APPROPRIATE TO THE SPECIES. IF IT IS DETERMINED THE OFF-SITE IMPROVEMENT IS LOCATED WITHIN OR ADJACENT TO A WILDLIFE MOVEMENT CORRIDOR, MM 4.8-5 SHALL BE IMPLEMENTED.

**CULTURAL AND PALEONTOLOGICAL RESOURCES**

**MM 4.9-1: CEASE WORK AND CONSULT WITH QUALIFIED ARCHAEOLOGIST**

SHOULD ANY CULTURAL RESOURCES, SUCH AS STRUCTURAL FEATURES, ANY AMOUNT OF BONE OR SHELL, ARTIFACTS, HUMAN REMAINS, OR ARCHITECTURAL REMAINS, BE ENCOUNTERED DURING ANY SUBSURFACE DEVELOPMENT ACTIVITIES, WORK SHALL BE SUSPENDED WITHIN 100- FEET OF THE FIND. THE CITY OF ROSEVILLE PLANNING AND PUBLIC WORKS STAFF SHALL BE IMMEDIATELY NOTIFIED. AT THAT TIME, THE CITY OF ROSEVILLE SHALL COORDINATE ANY NECESSARY INVESTIGATION OF THE SITE WITH QUALIFIED ARCHAEOLOGISTS AS NEEDED, TO ASSESS THE RESOURCE (I.E., WHETHER IT IS AN HISTORICAL RESOURCE OR A "UNIQUE ARCHAEOLOGICAL RESOURCE") AND PROVIDE PROPER MANAGEMENT RECOMMENDATIONS SHOULD POTENTIAL IMPACTS TO THE RESOURCES BE FOUND TO BE SIGNIFICANT. POSSIBLE MANAGEMENT RECOMMENDATIONS FOR IMPORTANT RESOURCES COULD INCLUDE RESOURCE AVOIDANCE OR, WHERE AVOIDANCE IS INFEASIBLE IN LIGHT OF PROJECT DESIGN OR LAYOUT OR IS UNNECESSARY TO AVOID SIGNIFICANT EFFECTS, DATA RECOVERY EXCAVATIONS. THE CONTRACTOR SHALL IMPLEMENT ANY MEASURES DEEMED FEASIBLE AND NECESSARY BY CITY STAFF, IN CONSULTATION WITH THE ARCHAEOLOGISTS, TO BE TO AVOID OR MINIMIZE SIGNIFICANT EFFECTS TO THE CULTURAL RESOURCES. IN ADDITION, PURSUANT TO SECTION 5097.98 OF THE STATE PUBLIC RESOURCES CODE, AND SECTION 7050.5 OF THE STATE HEALTH AND SAFETY CODE, IN THE EVENT OF THE DISCOVERY OF HUMAN REMAINS, THE COUNTY CORONER SHALL BE IMMEDIATELY NOTIFIED. IF THE REMAINS ARE DETERMINED TO BE NATIVE AMERICAN, GUIDELINES OF THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE ADHERED TO IN THE TREATMENT AND DISPOSITION OF THE REMAINS.

**MITIGATION MEASURE 4.9-3**

CEASE WORK UNTIL REVIEW CONDUCTED BY QUALIFIED PALEONTOLOGIST AND RECOMMENDATIONS IMPLEMENTED

SHOULD ANY EVIDENCE OF PALEONTOLOGICAL RESOURCES (E.G. FOSSILS) BE ENCOUNTERED DURING GRADING OR EXCAVATION, WORK SHALL BE SUSPENDED WITHIN 100 FEET OF THE FIND, AND THE CITY OF ROSEVILLE SHALL BE IMMEDIATELY NOTIFIED. AT THAT TIME, THE CITY SHALL COORDINATE ANY NECESSARY INVESTIGATION OF THE SITE WITH A QUALIFIED PALEONTOLOGIST TO ASSESS THE RESOURCE AND PROVIDE PROPER MANAGEMENT RECOMMENDATIONS. POSSIBLE MANAGEMENT RECOMMENDATIONS FOR IMPORTANT RESOURCES COULD INCLUDE RESOURCE AVOIDANCE, IF FEASIBLE IN LIGHT OF PROJECT DESIGN OR LAYOUT, OR DATA RECOVERY EXCAVATIONS. THE CONTRACTOR SHALL IMPLEMENT ANY MEASURES DEEMED FEASIBLE AND NECESSARY BY CITY STAFF IN CONSULTATION WITH THE PALEONTOLOGIST FOR THE PROTECTION OF THE PALEONTOLOGICAL RESOURCES.

**MITIGATION MEASURE 4.9-5 CONDUCT APPROPRIATE STUDIES**

PRIOR TO UNDERTAKING CONSTRUCTION OF OFF-SITE INFRASTRUCTURE, THE CITY SHALL DETERMINE WHETHER OR NOT CULTURAL RESOURCE SURVEYS HAVE BEEN UNDERTAKEN FOR ANY AREAS TO BE DISTURBED DURING CONSTRUCTION. IF SURVEYS WERE CONDUCTED, THE CITY SHALL DOCUMENT THAT ANY IDENTIFIED RESOURCES WERE TREATED AS RECOMMENDED IN THE STUDIES. IF NO STUDIES OR SURVEYS WERE CONDUCTED, THE CITY SHALL ENSURE THAT A QUALIFIED ARCHAEOLOGIST CONDUCTS THE APPROPRIATE LEVEL OF STUDY. IF RESOURCES ARE FOUND, RECOMMENDATIONS SHALL BE IMPLEMENTED TO ENSURE THAT THE RESOURCES ARE AVOIDED, PROTECTED AND/OR RECORDED, AS DETERMINED TO BE FEASIBLE AND APPROPRIATE BY CITY STAFF.

**HAZARDOUS MATERIALS AND PUBLIC SAFETY**

**MM 4.10-1 IDENTIFY POTENTIAL HAZARDOUS MATERIALS (SOIL CONTAMINATION, TANK OR WELL SITES, LEAD BASED PAINT AND/OR ASBESTOS)**

PRIOR TO SITE DEVELOPMENT IN THE SVSP, RECOMMENDED TESTING AND REMEDIATION, IF NEEDED SHALL OCCUR. GROUNDWATER WELLS SHALL BE PROPERLY CLOSED.

IF EVIDENCE OF SOIL CONTAMINATION, SEPTIC TANKS, OR OTHER UNDERGROUND STORAGE TANKS ARE ENCOUNTERED IN PREVIOUSLY UNIDENTIFIED LOCATIONS IN THE SVSP AREA, WORK SHALL CEASE UNTIL THE AREA CAN BE TESTED, AND IF NECESSARY, REMEDIATED AND/OR PROPERLY REMOVED OR CLOSED. REMEDIATION ACTIVITIES COULD INCLUDE REMOVAL OF CONTAMINATED SOIL AND/OR ON-SITE TREATMENT. AS PART OF THE PROCESS, THE CITY SHALL ENSURE THAT ANY NECESSARY INVESTIGATION AND/OR REMEDIATION ACTIVITIES ARE COORDINATED WITH THE ROSEVILLE FIRE DEPARTMENT, PLACER COUNTY DIVISION OF ENVIRONMENTAL HEALTH, AND IF NEEDED, OTHER APPROPRIATE FEDERAL, STATE AND LOCAL AGENCIES. ONCE A SITE IS REMEDIATED, CONSTRUCTION CAN CONTINUE.

**MM 4.12.4-2 DIVERT CONSTRUCTION DEBRIS**

THE APPLICANTS SHALL ENSURE A 50% REDUCTION IN THE CONSTRUCTION WASTE STREAM GENERATED FROM DEVELOPMENT WITHIN THE SVSP. IN DEVELOPER CONTRACTS WITH CONSTRUCTION CONTRACTORS AND THEIR SUB-CONTRACTORS, THE DEVELOPER SHALL REQUIRE THAT CONSTRUCTION WASTE BE REDUCED BY 50%. THE DEVELOPER SHALL FURTHER REQUIRE THAT CONTRACTORS AND SUB-CONTRACTORS SUBMIT RECORDS OF DIVERSION AND DISPOSAL TO THE CITY'S ENVIRONMENTAL UTILITIES DEPARTMENT IN ORDER TO VERIFY COMPLIANCE WITH THIS REQUIREMENT.

**HYDROLOGY AND WATER QUALITY**

**MM 4.13-1 IMPLEMENTATION OF CONSTRUCTION ACTIVITY STORM WATER PROTECTION STANDARDS**

PRIOR TO THE ISSUANCE OF A CITY GRADING PERMIT AND THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, COMPLIANCE WITH THE STATE'S GENERAL CONSTRUCTION PERMIT, THE CITY OF ROSEVILLE'S CONSTRUCTION STANDARDS, AND THE CITY'S STORM WATER BMP GUIDANCE MANUAL WILL BE MET. THIS INCLUDES THE CREATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT WILL IDENTIFY THE SITE, THE LOCATION OF SENSITIVE HABITATS OR WATERCOURSES, DRAINAGE AREAS, DISCHARGE LOCATIONS, SOIL DISTURBANCE AREAS, AND THE LOCATIONS OF ALL RUNOFF, EROSION CONTROL, AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs). ON-GOING MONITORING AND ADJUSTMENTS TO THE SWPPP WILL OCCUR WHEN NEEDED TO ADDRESS CHANGES IN THE FIELD AS CONSTRUCTION ACTIVITIES EVOLVE.

**MM 4.14-3 AVOID LIGHT SPILL OVER INTO CURRY CREEK AND OPEN SPACE AREAS**

OUTDOOR LIGHTING SHALL BE PLACED, DESIGNED AND DIRECTED SO AS TO AVOID LIGHT SPILLOVER INTO THE HABITAT OF CURRY CREEK AND THE OPEN SPACE PRESERVE AREAS LOCATED IMMEDIATELY ADJACENT TO THE OPEN SPACE, AS SHOWN ON THE LAND USE MAP AS PARCELS KT-1, KT-40, KT-30, KT-41, DF-1, DF-2, DF-40, CG-82M JM-21, JM-3, AND JM-4.

NO.	DESCRIPTION	ENGR. INIT.	CITY APPROVAL APPROVED BY	DATE	benchmark	CTY BM-71 elev.122.34(NVD29)	elev.124.48(NVD88)
(SEE SHEET NO.1)							

**PROFESSIONAL SEAL**  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 No. C 44852  
 EXPIRES 06/30/2025  
 LISA BARBER MATTOS RCE# 44852

PLOT DATE: 01-22-21	SCALE	drafted by: R.E.
	horiz: N/A	designed by: L.B.M.
	vert: N/A	checked by: S.F.L.
1/2021		609
	date	field book

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**MMRP NOTES**

**SIERRA VISTA VILLAGE FD-10 - MASS GRADE**  
 CITY OF ROSEVILLE PLACER COUNTY CALIFORNIA

SHEET 11 OF 11 SHEETS
20-06-24
JOB NUMBER