JOB DESCRIPTION PID WESTBROOK RECHARGE BASIN APN 299-040-004, APN 299-040-006, APN 299-040-009 PIXLEY, CA 93256

IMPROVEMENT PLANS

- THE FOLLOWING TERMS USED IN THESE GENERAL NOTES ARE DEFINED AS FOLLOWS. "COUNTY OF TULARE" REFERS TO THE PERSON(S) IN RESPONSIBLE CHARGE OF ENGINEERING FUNCTIONS FOR THE COUNTY OF TULARE AND THEIR REPRESENTATIVES. "DEVELOPER" REFERS TO THE PERSON(S)/COMPANY AND THEIR REPRESENTATIVES WHO EXECUTE THE SUBDIVISION IMPROVEMENT AGREEMENT WITH THE COUNTY. "CONTRACTOR" REFERS COLLECTIVELY TO THE CONTRACTOR(S) AND THEIR SUBCONTRACTOR(S) AND THEIR REPRESENTATIVES HIRED BY THE DEVELOPER TO PERFORM THE WORK. "DESIGN ENGINEER" REFERS COLLECTIVELY TO THE COMPANY(IES) AND THEIR REPRESENTATIVES HIRED BY THE DEVELOPER TO PROVIDE PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES AND TO PREPARE THESE IMPROVEMENT PLANS. "TESTING LABORATORY" REFERS COLLECTIVELY TO THE COMPANY (IES) AND THEIR REPRESENTATIVES HIRED BY THE DEVELOPER TO PERFORM MATERIALS SAMPLING, TESTING AND REPORTING.
- 2. THE COUNTY OF TULARE'S APPROVAL OF THESE IMPROVEMENT PLANS IS VALID FOR A PERIOD OF TWELVE (12) MONTHS. CONSTRUCTION PERMITS WILL BE OBTAINED WITHIN THIS PERIOD OR THE IMPROVEMENT PLANS ARE EXPIRED AND MUST BE RESUBMITTED FOR APPROVAL. WORK STILL REMAINING AFTER THE IMPROVEMENT PLANS HAVE EXPIRED MUST HALT UNTIL AN EXTENSION IS GRANTED OR AN UPDATED SET OF IMPROVEMENT PLANS IS APPROVED AS DETERMINED BY THE COUNTY OF TULARE. IMPROVEMENT PLAN APPROVAL BY THE COUNTY DOES NOT GRANT AUTHORITY TO BEGIN CONSTRUCTION.
- 3. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE COUNTY OF TULARE STANDARD SPECIFICATIONS AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS INSOFAR AS THE SAME MAY APPLY. ALL WORK INSTALLED AND MATERIALS SHALL MEET OR EXCEED THE COUNTY OF TULARE IMPROVEMENT STANDARDS. WHERE WORK PROPOSED IS NOT ADDRESSED WITH THESE STANDARDS, THE CONTRACTOR SHALL DEFER THE LATEST ADOPTED VERSION OF THE STATE STANDARD DRAWINGS AND SPECIFICATIONS FOR COMPLIANCE. IN THE EVENT OF CONFLICT BETWEEN COUNTY AND STATE SPECIFICATIONS, COUNTY SPECIFICATIONS WILL GOVERN, UNLESS THE WORK IS WITHIN A STATE RIGHT-OF-WAY.
- THE LATEST COUNTY OF TULARE APPROVED VERSION OF THESE IMPROVEMENT PLANS MUST BE AVAILABLE ON THE JOB SITE AT ALL TIMES. A REPRESENTATIVE OF THE DEVELOPER/CONTRACTOR (CAPABLE OF COMMUNICATING WITH THE COUNTY'S REPRESENTATIVES) WILL BE ON THE JOB SITE AT ALL TIMES THE WORK IS BEING PURSUED.
- 5. THE COUNTY OF TULARE DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS. 6. THE DEVELOPER SHALL REQUEST AND ATTEND A PRE-CONSTRUCTION MEETING WITH THE THE COUNTY OF TULARE PRIOR TO THE START OF CONSTRUCTION. CONTACT THE COUNTY OF TULARE AT (559) 713-4331 TO REQUEST A MEETING. THE DEVELOPER IS RESPONSIBLE TO CONTACT AND INVITE ANY AFFECTED UTILITY COMPANIES TO THE MEETING.
- 7. THE DEVELOPER/CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE COUNTY AT THE PRE-CONSTRUCTION MEETING AND ON THE COVER SHEET OF THE CONSTRUCTION SET. THE DEVELOPER/CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS A DAY TO RESPOND TO EMERGENCIES. IF THE COUNTY IS REQUIRED TO RESPOND AND MAKE EMERGENCY REPAIRS ON BEHALF OF THE DEVELOPER/CONTRACTOR, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO REIMBURSE THE COUNTY FOR ALL COSTS INCURRED.
- ALL REQUIRED PERMITS MUST BE ISSUED PRIOR TO COMMENCING WORK. IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO UNDERSTAND THE WORK COVERED BY THE VARIOUS PERMIT TYPES ISSUED. PERMITS MAY INCLUDE ENCROACHMENT PERMITS FOR ANY WORK TO BE PERFORMED IN EXISTING RIGHTS-OF-WAYS OR EASEMENTS: SITE IMPROVEMENT PERMITS FOR ON-SITE WORK SUCH AS GRADING, UTILITIES, NEW STREETS, PARKING LOTS AND LANDSCAPING. GRADING PERMITS COVER ON-SITE WORK FOR ROUGH GRADING ONLY; BUILDING PERMITS FOR ON-SITE STRUCTURES. THE COUNTY'S ENCROACHMENT PERMIT POLICY MANUAL SHOULD BE CONSULTED FOR DETAILED INFORMATION ON ENCROACHMENT PERMITS. OTHER PERMITS SUCH AS DEMOLITION PERMITS, WELL ABANDONMENT PERMITS AND VALLEY OAK TREE REMOVAL PERMIT TO BE REQUESTED PRIOR TO COMMENCING WORK. ISSUED PERMIT(S) FOR ANY OF THESE PERMIT TYPES WILL NOT BE CONSTRUED IN ANY WAY AS PERMISSION TO COMMENCE WORK COVERED BY OTHER PERMIT TYPES.
- 9. THE CONTRACTOR WILL SUBMIT ANY NECESSARY TRAFFIC CONTROL PLANS (TCP) AS REQUIRED BY THE COUNTY IN CONJUNCTION WITH THE ENCROACHMENT PERMITS FOR THE WORK. TRAFFIC CONTROL WILL CONFORM TO THE CALIFORNIA MUTCD. THE COUNTY'S ENCROACHMENT PERMIT POLICY MANUAL SHOULD BE CONSULTED FOR DETAILED INFORMATION ON TCP REQUIREMENTS. TCP'S WILL BE STAMPED APPROVED BY THE COUNTY AND A COPY RETURNED TO THE CONTRACTOR. A COPY OF ALL APPROVED TCP'S MUST REMAIN ON THE JOB SITE AT ALL TIMES.
- 10. THE DEVELOPER MUST HAVE A FULLY EXECUTED IMPROVEMENT AGREEMENT AND REIMBURSEMENT AGREEMENT (IF APPLICABLE) WITH THE COUNTY PRIOR TO BEGINNING WORK UNLESS OTHERWISE AUTHORIZED BY THE COUNTY MANAGER. THE COUNTY MANAGER'S EXECUTION OF THE IMPROVEMENT AGREEMENT REQUIRES THE SUBMITTAL OF BONDS, INSURANCE AND INSPECTION FEES. THE COUNTY MANAGER'S EXECUTION OF THE REIMBURSEMENT AGREEMENT REQUIRES THE AUTHORIZATION OF THE COUNTY COUNCIL.
- 11. PROTECT ALL EXISTING UTILITIES IN PLACE. 12. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY, INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE UTILITY COMPANY. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATION WORK INCLUDING FEES, BONDS, PERMITS, ETC.
- 13. DEVELOPER/CONTRACTOR IS RESPONSIBLE TO ARRANGE FOR THE RELOCATION OF ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK. THE DEVELOPER/CONTRACTOR MUST SUBMIT THE UTILITY RELOCATION PLANS AND A UTILITY RELOCATION SCHEDULE TO THE COUNTY WHEN THE UTILITY RELOCATION INTERFERES WITH THE CONSTRUCTION OF ARTERIAL/COLLECTOR STREETS.
- 14. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF TULARE, OR APPROPRIATE AGENCY, TWO (2) DAYS PRIOR TO BEGINNING ANY EXCAVATION. 15. ANY WORK CONCEALED WITHOUT INSPECTION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT
- AT THE DEVELOPER'S/ CONTRACTOR'S EXPENSE. 16. PRIOR TO THE COUNTY OF TULARE'S ACCEPTANCE OF THE WORK, THE DESIGN ENGINEER WILL SUBMIT A CERTIFICATION OF PAD ELEVATIONS FOR THE LOTS LOCATED IN A FEMA SPECIAL FLOOD HAZARD AREA.
- 17. ALL TRENCHES AND EXCAVATIONS OUTSIDE THE LIMITS OF THE STREETS RESULTING FROM THE REMOVAL OF UNDERGROUND STRUCTURES AND THE INSTALLATION OF UTILITIES WILL BE BACKFILLED AND COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION.
- 18. THE CURB ALONG ALL RETURNS SHALL BE DEPRESSED TO ALLOW COUNTY STANDARD HANDICAP RAMP CONSTRUCTION. THE CURB AT PLANNED DRIVEWAY APPROACH LOCATIONS MAY BE DEPRESSED TO A MINIMUM WIDTH OF 18 FEET AND A MAXIMUM WIDTH 41 FEET TO ACCOMMODATE A TWO-CAR DRIVEWAY (REFER TO C-24 DETAIL). IT IS THE DEVELOPER'S AND DESIGN ENGINEER'S RESPONSIBILITY TO LOCATE THE DRIVEWAY APPROACH LOCATIONS. AT THE TIME OF BUILDING PERMIT ISSUANCE ON EACH LOT, THE COUNTY RESERVES THE RIGHT TO CORRECT THE DRIVEWAY APPROACH LOCATION AND WIDTH BASED ON THE PLOT PLAN SUBMITTED TO THE COUNTY.
- 19. HARTMAN ENGINEERING IS RESPONSIBLE TO OBTAIN A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS, INCLUDING NOTICE OF INTENT (NOI), NOTICE OF TERMINATION (NOT), AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP). A COPY OF THE NOI AND SWPPP WILL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- 20. IN ACCORDANCE WITH THE SWPPP, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE TO CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES IN ORDER TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC STREETS. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTION DITCHES, PIPES PROTECTIVE BERMS, CONCRETE CHANNELS OR OTHER MEASURES. DESIGNED TO PROTECT IMPROVEMENTS, WHETHER EXISTING OR PROPOSED, FROM RUNOFF OR DAMAGE FROM STORM WATER, MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS.

THE INTENT OF THIS PROJECT IS TO CONDUCT A BOUNDARY MAPPING AND TOPOGRAPHIC SURVEY, DESIGN AND CONSTRUCT A RECHARGE BASIN, AND SHOW THE HYDRAULIC AND ENERGY GRADE PROFILES.

SCOPE OF WORK:

PREPARE PROFILE VIEWS FOR THE HYDRAULIC AND ENERGY GRADE LINES AND DESIGN A RECHARGE BASIN. NOTIFY THE CITY ENGINEER TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY PHASE OF WORK. ALL WORK AND MATERIALS SHALL BE TO THE SPECIFICATIONS OF THE COUNTY OF TULARE. DEVIATION FROM THESE PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL FROM THE COUNTY OF TULARE. FINAL ACCEPTANCE OF ALL WORK SHALL BE BY THE COUNTY OF TULARE.

- 1. ALL IMPROVEMENTS SHALL BE PER COUNTY OF TULARE STANDARDS.
- 2. CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 7 DAYS PRIOR TO COMMENCING WORK SO THAT THE COUNTY MAY PRESERVE MONUMENTS AND BENCH MARKS, WHICH MAY NOT BE DISTURBED WITHOUT CONSENT FROM THE COUNTY.
- 3. ANY INSPECTION TO BE PERFORMED BY THE COUNTY SHALL REQUIRE 24 HOUR NOTICE.
- 4. INSTALL APPROVED TRAFFIC CONTROL SIGNS PRIOR TO ANY WORK.
- 5. UTILITIES WITHIN COUNTY RIGHT-OF-WAY SHALL BE INSTALLED USING BORINGS.

	ABUTMENT	PVC	PVC PIPE	WTPI	WATER PIPE
,	ASPHALT SPOT SHOT	RCP	REINFORCED CONCRETE PIPE	WTPM	WATER PAINT MARK
)	ASPHALI DIKE/CURB			WIRI WITH	WATER RISER
1	BRIDGE DECK	RIFL	RIPARIAN EDGE	WTTK	WATER TANK
	BUILDING	RIP	RIP RAP	WTVA	WATER VALVE
	BOLLARD	RK	ROCK	WTVT	WATER VAULT
1	BENCHMARK	RPN DD			
	CONCRETE CORNER	SDCO	STORM DRAIN CLEAN OUT	VVIVVF	WATER WELL FOIVIF
	CONCRETE EDGE	SDI	STORM DRAIN INLET		
2	CIRCLE	SDMC	STORM DRAIN MISCELLANEOUS		
S AD	CLOSE FIGURE		STORM MANHOLE GRATE		
/IP NN		SDPI	STORM PIPE		
	CONTROL POINT	SDPM	STORM PAINT MARK		
N	CONNECT POINT NUMBER	SDTH	STORM TRENCH		
	CROWN OF ROAD	SET	SET POINT		
)		SL SN	SIGN		
L	DRAIN INLET	SNBS	SIGN BUS STOP		
Ξ	DRAIN INLET EDGE	SNFO	SIGN FIBER OPTIC WARNING		
	DROP POLE	SNHC			
VY	DRIVEWAY	SNIVIC	SIGN NO PARKING		
СВ	ELECTRICAL CABINET	SNNS	SIGN NO STOPPING		
CD	ELECTRICAL CONDUIT	SNPP	SIGN PRIVATE PROPERTY		
LT	ELECTRICAL LIGHT	SNRR			
		SINSL	SIGN SPEED LIMIT		
MT	FI FCTRICAL MANHOLE	SNSF	SIGN STREET		
ОН	ELECTRICAL OVERHEAD	SNYD	SIGN YIELD		
PB	ELECTRICAL PULL BOX	SP	SERVICE POLE		
PM	ELECTRICAL PAINT MARK	SSCO	SEWER CLEANOUT		
TH	ELECTRICAL RISER	SSMC	SEWER MISCELLANEOUS		
TR	ELECTRICAL TRANSFORMER	SSMH	SEWER MANHOLE		
TT	ELECTRICAL TRANSMISSION TOWER	SSPI	SEWER PIPES		
VI D		SPM	SEWER PAINT MARK		
R	EDGE OF DIRT ROAD	SSTH	SEWER TRENCH		
	EDGE OF PAVEMENT	ST	STRIPING		
W	EDGE OF TRAVELED WAY	STAR			
		SIDW			
	FIOWTINE	STMC	STRIPING DOUBLE TELEOW		
	FENCE	STSB	STRIPING STOP BAR		
В	FENCE BARBED WIRE	STWD	STRIPING WHITE DASH		
C		SIWS	STRIPING WHITE STRIPE		
I \//	FENCE WROUGHT IRON	STYD	STRIPING CROSS WALK		
	FLIGHT CROSS POINT	STYS	STRIPING YELLOW STRIPE		
5	GRADE BREAK	SWK	SIDEWALK		
)	GUARD RAIL				
L	GATE POST	TCBX	TELECOM BOX		
MC	GAS MISCELLANEOUS	TCCB	TELECOM CABINET		
MH	GAS MANHOLE	TCCD	TELECOM CONDUIT		
MP	GAS MARKING POST				
PI	GAS METER GAS PIPF	TCIVIH	TELECOM MARKING POST		
PM	GAS PAINT MARK	TCOH	TELECOM OVERHEAD		
RI	GAS RISER	TCPM	TELECOM PAINT MARK		
IH TS	GAS TRENCH				
VA	GAS VALVE	TCTH	TELECONTRISER/PEDESTAL		
VT	GAS VAULT	TCVT	TELECOM VAULT		
WS	GAS WARNING SIGN	TCWS	TELECOM WARNING SIGN		
VF	HOSE BIB	TOE	TOP FACE OF WALK		
	JOINT UTILITY POLE	TOP	TOP OF SLOPE		
	K RAIL	TR	TREE		
)					
	BUSH OR BRUSH	UCR	UNIDENTIFIED CABINET		
Т	LANDSCAPE LIGHT	UMH	UNIDENTIFIED MANHOLE		
МС	LANDSCAPE MISCELLANEOUS	UPI	UNIDENTIFIED PIPE		
3		UPM			
,	ORIGINAL GROUND	UTH	UNIDENTIFIED RISER		
-	BEGIN CURVE	UUL	UNIDENTIFIED UNDERGROUND UTILITY		
1	PARKING METER	UVA	UNIDENTIFIED VALVE		
	POWER POLE	UVT			
MC	PETROLEUM MISCELLANEOUS	VGK WFR	VALLET GUTTER WALL FACE BOTTOM		
MP	PETROLEUM MARKING POST	WFT	WALL FACE TOP		
PI	PETROLEUM PIPE	WP	WORK POINT - TEMPORARY		
M		WTMT			
vv3	SIGIN PIPELINE WAKINING	VVIIVIVV	WATER WONLORING WELL		

CIVIL IMPROVEMENTS: GRADING AND DRAINAGE

PROJECT INFO



LEGEND

APN LIST

299-040-004 299-040-006 299-040-009

CONTACT INFO

OWNER:

NEAL R. WESTBROOK AND ROBIN R. WESTBROOK 2339 N. PALM ST., PIXLEY, CA 93256

DUST CONTROL NOTE

THE CONTRACTOR SHALL MAINTAIN DUST CONTROL ABOUT THE SITE OF WORK PURSUANT TO FUGITIVE DUST PM-10, RULE 801 0-RULE 8070 OF REGULATION VIII, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT. PHONE (661) 392-5500.

STORMWATER NOTES

THE CONTRACTORS SHALL INSTALL AND MAINTAIN PROTECTION AROUND STORM DRAIN INLETS DURING CONSTRUCTION TO PREVENT INFILTRATION OF MUD AND DIRT INTO THE STORM DRAIN SYSTEM.

A LETTER FROM THE DESIGN ENGINEER CERTIFYING THAT THE EXISTING OR PROPOSED BASIN IS DESIGNED TO CAPTURE AND RETAIN ALL STORM WATER RUNOFF ASSOCIATED WITH A 100-YEAR WET YEAR AND CAN CONTAIN ALL STORM WATER UNDER ALL CLIMATIC CIRCUMSTANCES SHALL BE REQUIRED PRIOR TO FINAL ACCEPTANCE AND/OR OCCUPANCY ISSUANCE.

BENCHMARK

OPUS AC6132 THE CITY BENCHMARK IS LOCATED THE NORTHWEST CORNER OF A CONCRETE HEADWALL, APPROXIMATELY 175 FEET WEST OF THE CENTERLINE OF SOUTH MAIN STREET, APPROXIMATELY 67.5 FEET NORTHWEST OF UTILITY POLE NO. 1035-13-80021, APPROXIMATELY 23 FEET NORTH OF THE CENTERLINE OF EAST BRADBURY AVENUE

PRESERVATION OF MONUMENTS

PURSUANT TO SECTIONS 8771(B) AND 8771(C) OF THE GOVERNMENT CODE, ANY MONUMENTS THAT CONTROL THE LOCATION OF BOUNDARIED, OR OTHERWISE PROVIDE HORIZONTAL OR VERTICAL SURVEY CONTROL WITHIN THE CONSTRUCTION AREA, SHALL BE LOCATED AND REFERENCED PRIOR TO CONSTRUCTION, AND A CORNER RECORD OR RECORD OF SURVEY OF THE REFERENCES SHALL BE FILED WITH THE COUNTY SURVEYOR.

DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISION, TRACTS, BOUNDARIES, STREETS, HIGHWAYS, OR OTHER RIGHTS-OF-WAY, EASEMENTS, OR PROVIDE SURVEY CONTROL WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK.

THE CONTRACTOR WILL NOTIFY THE CITY AT LEAST 10 WORKING DAYS PRIOR TO COMMENCING WORK SO THAT THE CITY MAY PRESERVE THE LOCATIONS AND ELEVATIONS OF EXISTING MONUMENTS AND BENCH MARKS WITHIN THE PUBLIC RIGHT-OF-WAY WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK. THE CITY'S PRESERVATION OF THE EXISTING MONUMENTS AND BENCHMARKS MUST BE COMPLETED PRIOR TO THE CONTRACTOR COMMENCING WORK. THE CONTRACTOR MUST RECEIVE NOTIFICATION FROM THE CITY.

DEVELOPER/CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE DESIGN ENGINEER TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE CITY ENGINEER PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.

CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION SURVEY STAKES AND PROPERTY LINE MARKERS WHEN REASONABLY POSSIBLE. ANY STAKES OR MARKERS REQUIRING REPLACEMENT BY THE DEVELOPER'S ENGINEER SHALL BE DONE AS "EXTRA WORK".

SHEET INDEX





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PROJECT: PID WESTBROOK RECHARGE BASIN			CLIENT: PIXLEY IRRIGATION DISTRICT					
SCALE: AS SHOWN								

JOB NO.: 24011

SHEET NO .: CS-1

THIS IS AN ORIGINAL UNPUBLISHED WORK AND MAY NOT BE DUPLICATED, PUBLISHED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF HARTMAN ENGINEERING INC. Ã

- GENERAL
- 1. IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO ALL LOCAL, CITY, AND STATE SPECIFICATIONS, PER THEIR REGULATIONS AND CODES NOT SHOWN OR DICTATED ON THESE PLANS, AND IN FULL COMPLIANCE OF SAFETY AND ENVIRONMENTAL REGULATIONS.
- 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY IRREGULARITIES OR ERRORS IN THE CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL POTHOLE, MEASURE, OR SURVEY TO CONFIRM DESIGN PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE PROPOSAL PRICE TO CLIENT. 4. CONSTRUCTION STAKING IS PROVIDED BY ENGINEER AND MUST BE REQUESTED 72 HOURS PRIOR.
- 5. CONSTRUCTION WATER PROVIDED TO CONTRACTOR BY OWNER.
- 6. WORK SHALL CONSIST OF ALL EARTHWORK RELATED TO THE SITE: ALL DEMOLITION, CLEARING, GRUBBING, STRIPPING, ROUGH GRADING, EXCAVATION, IMPORT AND/OR EXPORT OF FILL, PROCESSING, PLACEMENT, AND COMPACTION OF FILL MATERIALS. PLACEMENT OF AGGREGATE BASE MATERIAL AND ALL WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES AND SLOPES AS SHOWN ON THESE PLANS.
- 7. SITE CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE, AND NOTE ALL CONDITIONS AS TO THE CHARACTER AND EXTENT OF WORK INVOLVED.
- 8. ALL ORGANIC MATERIAL, RUBBLE OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- 9. ANY EXISTING FILL AND/OR DISTURBED SUB-GRADE MATERIAL SHALL MEET THE COMPACTION REQUIREMENTS STATED IN NOTE 4 OF THE SOILS SECTION. ALL ORGANIC MATERIAL RUBBLE OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- 10. A SEPARATE ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY FOR ANY WORK WITHIN EXISTING STREET RIGHTS OF WAY. SAID PERMIT MAY SPECIFY A SEPARATE WORK SCHEDULE AND COMPLETION DATE FOR ITEMS OF WORK PRIOR TO THE START OF WORK, CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CALTRANS MANUAL, OF UNIFORM TRAFFIC CONTROL FOR USE IN CALIFORNIA".
- 11. CONSTRUCT A COPPER TRACING WIRE (#14) IN ALL WATER TRENCHES WITH ACCESS POINTS IN ALL WATER METER AND VALVE BOXES.
- 12. CONTRACTOR SHALL PROVIDE PEDESTRIAN, VEHICLE, WORKER AND TREE PROTECTION AS NECESSARY FOR THE FULL DURATION OF THE PROJECT. 13. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO
- WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. 14. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE CONTRACT IN A SATISFACTORY
- MANNER PROVIDING ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SPECIFIED OTHERWISE.
- 15. CONTRACTOR SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS THE OWNER, THEIR ENGINEER AND CONSULTANTS, THEIR OFFICERS, EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGES ARISING OR ALLEGED FROM THE PERFORMANCE OF THE WORK DESCRIBED ON THESE PLANS, NOT INCLUDING NEGLIGENCE ON THE PART OF THE OWNER.
- 16. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.
- 17. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY HAVE NOT BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
- 18. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL THE COUNTY OF TULARE ENGINEER AT (559) 713-4444. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO LOCATE EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
- 19. ALL EXISTING REMAINING UTILITIES AND REMAINING IMPROVEMENTS IN PUBLIC RIGHT-OF-WAY THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
- 20. ALL CHANGES IN PIPE DIRECTION NOT ACCOMPLISHED BY FITTING SHALL BE ACHIEVED BY DEFLECTION OF EACH PIPE JOINT ACCORDING TO MANUFACTURERS RECOMMENDATION.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE HERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT "HARTMAN ENGINEERING INC." (559) 463-0444 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

SITE SAFETY AND PROTECTION

THE DUTY OF THE ENGINEER, OWNER, OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN. ON. OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTORS EMPLOYED UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURIES REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTAINED OR OPERATION.

THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER HARTMAN ENGINEERING, AND THEIR RESPECTIVE AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY. SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCUSING RESPONSIBILITIES OF THE CONTRACTOR ALONE.

SPECIAL NOTE:

1. WHERE UNDERGROUND AND SURFACE STRUCTURES AND UTILITIES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLE CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR. BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

- REQUIREMENTS OF THESE IMPROVEMENT PLANS.
- 2. CLEARING: PRIOR TO EARTHWORK OPERATIONS, THE AREA TO BE DEVELOPED SHOULD BE STRIPPED OF VEGETATION, ORGANIC TOPSOIL AND CLEARED OF SUBSURFACE OBSTRUCTIONS INCLUDING: UTILITY LINES AND MISCELLANEOUS DEBRIS, FROM THE PROPOSED CONSTRUCTION AREA. THE LIMITS OF STRIPPING AND CLEARING SHOULD BE AT LEAST FIVE FEET BEYOND THE LIMITS OF CONSTRUCTION. THE SOILS REPORT ESTIMATES THE DEPTH OF STRIPPING TO BE APPROXIMATELY ONE INCH.
- 3. PREPARATION OF CONSTRUCTION AREAS: FOLLOWING CLEARING, THE PROPOSED CONSTRUCTION AREAS SHOULD BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW THE STRIPPED GROUND SURFACE, ACCORDING TO THE SOILS REPORT. OVER-EXCAVATION SHOULD EXTEND A MINIMUM OF 5 FEET BEYOND THE PERIMETER OF THE STRUCTURES. THE OVER-EXCAVATION SHOULD BE REVIEWED BY SELECTED GEO-TECHNICAL ENGINEER. THE BOTTOM OF THE OVER-EXCAVATION SHOULD BE SCARIFIED TO A DEPTH OF SIX INCHES, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND COMPACTED AS OUTLINED IN THE FOLLOWING SECTIONS
- 4. COMPACTION: THE SCARIFIED SUB-GRADE AND SUBSEQUENT FILL PLACED AT THE SITE SHOULD BE MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM TEST METHOD D1557.
- 5. MATERIAL FOR FILL: FILL SHOULD CONSIST OF SELECT MATERIAL. ON-SITE SOILS, FREE FROM ORGANICS, EXPANSIVE SOIL, VEGETATION, AND ROCKS OR COBBLES LARGER THAN THREE INCHES, MAY BE USED AS FILL AT THE SITE. THE SUB-GRADE SOILS CONTAIN SOME UNDESIRABLE CLAYEY SOILS THAT SHOULD BE SEPARATED FROM THE OTHER SUITABLE FILL MATERIAL. FULL-TIME OBSERVATION BY THE SELECTED GEO-TECHNICAL ENGINEER IS REQUIRED DURING THE EXCAVATION AND FILL PLACEMENT TO VERIFY THAT ANY CLAYEY SOILS WITH AN EXPANSION INDEX GREATER THAN 10 ARE NOT USED AS BACKFILL MATERIAL. IMPORT MATERIAL SHOULD CONSIST OF NON-EXPANSIVE, INORGANIC GRANULAR SOILS PER THE SOILS REPORT.
- 6. FILL PLACEMENT: FILL MATERIAL SHOULD BE MOISTURE-CONDITIONED TO ABOVE THE OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. FILL MATERIAL WITH EXCESSIVE MOISTURE SHOULD BE ALLOWED TO DRY PRIOR TO COMPACTION OR BE MIXED WITH DRY SOIL TO BRING THE FILL TO A WORKABLE AND STABLE MOISTURE CONTENT. FILL SHOULD BE PLACED IN LEVEL LIFTS NOT EXCEEDING A LOOSE, UN-COMPACTED THICKNESS OF EIGHT INCHES, AND COMPACTED AS ENGINEERED FILL.
- 7. SITE DRAINAGE: CONTROL OF SURFACE DRAINAGE IN THE PROPOSED CONSTRUCTION AREA SHOULD BE AN IMPORTANT DESIGN CONSIDERATION. FINAL GRADING AROUND THE STRUCTURES SHOULD BE SUCH THAT THERE IS POSITIVE AND ENDURING DRAINAGE AWAY FROM THE FOUNDATIONS, AND WATER SHOULD NOT BE ALLOWED TO POND ON THE SITE OR AGAINST STRUCTURES.
- 8. UTILITY TRENCH BACKFILL: THE UNDERGROUND UTILITIES SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. HOWEVER, WHERE NO MANUFACTURER'S RECOMMENDATIONS ARE AVAILABLE, UNDERGROUND UTILITIES SHOULD BE INSTALLED AS DESCRIBED BELOW. UNDERGROUND UTILITY LINES SHOULD HAVE NO LESS THAN 12 INCHES OF COVER. A MINIMUM OF SIX INCHES OF COMPACTED SAND BEDDING UNDER THE PIPE, AND A PIPE ENVELOPE EXTENDING SIX INCHES ABOVE THE PIPE, SHOULD BE PROVIDED. THE REMAINING BACKFILL MATERIAL MAY CONSIST OF NATIVE SOIL, OR IMPORT MATERIAL AS DESCRIBED IN THIS REPORT. UTILITY TRENCH BACKFILL SHOULD BE PLACED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS FOR ENGINEERED FILL.
- 9. FOUNDATION RECOMMENDATIONS: PROVIDED THE SITE PREPARATION PROCEDURES PRESENTED IN THIS REPORT ARE PERFORMED, A MAT FOUNDATION, BEARING IN COMPACTED ON-SITE OR IMPORT FILL AT A MINIMUM DEPTH OF 18-INCHES BELOW GRADE MAY BE USED FOR SUPPORTING THE STRUCTURAL LOADS OF THE PROPOSED STRUCTURES.
- 10. ENGINEERED FILLS SHALL BE INSPECTED AND CERTIFIED BY A SOILS ENGINEER. FILL MATERIALS SHALL BE SUITABLE FOR BUILDING FOUNDATIONS IN ACCORDANCE WITH THE SOILS REPORT AND U.B.C. REQUIREMENTS.
- SAFETY AND ENVIRONMENTAL REGULATIONS.
- 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY IRREGULARITIES OR ERRORS IN THE CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL POTHOLE, MEASURE, OR SURVEY TO CONFIRM DESIGN PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS FROM DAMAGE, COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE PROPOSAL PRICE TO CLIENT. 4. CONSTRUCTION STAKING IS PROVIDED BY ENGINEER AND MUST BE REQUESTED 72 HOURS PRIOR.
- 5. CONSTRUCTION WATER PROVIDED TO CONTRACTOR BY OWNER 6. WORK SHALL CONSIST OF ALL EARTHWORK RELATED TO THE SITE: ALL DEMOLITION, CLEARING, GRUBBING, STRIPPING, ROUGH GRADING, EXCAVATION, IMPORT AND/OR EXPORT OF FILL, PROCESSING, PLACEMENT, AND COMPACTION OF FILL MATERIALS. PLACEMENT OF AGGREGATE BASE MATERIAL AND ALL WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES AND SLOPES AS SHOWN ON THESE PLANS.
- 7. SITE CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE, AND NOTE ALL CONDITIONS AS TO THE CHARACTER AND EXTENT OF WORK INVOLVED 8. ALL ORGANIC MATERIAL, RUBBLE OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE
- AND PROPERLY DISPOSED. 9. ANY EXISTING FILL AND/OR DISTURBED SUB-GRADE MATERIAL SHALL MEET THE COMPACTION REQUIREMENTS STATED IN NOTE 6 ABOVE. ALL ORGANIC MATERIAL RUBBLE OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.

SOILS

1. CONTRACTOR SHALL FOLLOW THE GEO-TECHNICAL SOILS REPORT IN THE WORK PLAN. THE FOLLOWING ARE ONLY EXCERPTS, AND THE ACTUAL REPORT GOVERNS THE DESIGN AND CONSTRUCTION

GRADING

1. IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO ALL LOCAL AND COUNTY SPECIFICATIONS, PER THEIR REGULATIONS AND CODES NOT SHOWN OR DICTATED ON THESE PLANS, AND IN FULL COMPLIANCE OF

GRADING AND DRAINAGE

- 1. ALL WORK RELATED TO PAVING SHALL CONFORM TO STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARDS, SPECIFICATIONS, AND COUNTY OF TULARE REQUIREMENTS.
- ALL MANHOLE COVERS SHALL BE LEFT BELOW GRADE UNTIL COMPLETION OF PAVING.
- 3. ALL TRENCHES BEHIND CURB AND GUTTER SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION. ALL TRENCHES IN THE STREET AREAS SHALL BE COMPACTED PER CITY STANDARD DETAIL E-1. 4. ALL SANITARY SEWER LATERAL SHALL BE EXTENDED 5 FEET BEYOND PROPERTY LINE AND MARKED WITH A 3"
- HIGH "S" ON TOP OF CURB TO VERIFY SEWER LATERAL LOCATION.
- TREE ROOT SYSTEMS IN PROPOSED BUILDING AREAS SHOULD BE REMOVED TO A MINIMUM DEPTH OF TWO FEET AND WITHIN A RADIAL DISTANCE WHICH WOULD PERMIT REMOVAL OF ALL ROOTS LARGER THAN ONE INCH DIAMFTER
- 6. CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE TO ADA ACCESS COMPLIANCE REQUIREMENT. INSPECTION OF THE ROUGH GRADED PAD AND FINISHED GRADING IS REQUIRED PRIOR TO ACCEPTANCE AND RELEASE OF THE GRADING PERMIT.
- 7. COMPACTION REPORTS ARE REQUIRED TO BE SUBMITTED TO DEVELOPMENT ENGINEERING FOR ALL FILLS. AREAS WITHIN FLOOD ZONES REQUIRED 95% MINIMUM COMPACTION. 8. MAXIMUM CUT AND FILL SLOPES SHALL BE 2H:1V OR AS ALLOWED PER AN APPROVED AND FILED SOILS
- RFPORT 9. THE GROUND AROUND THE STRUCTURE SHALL BE SLOPED TWO PERCENT (2%) FOR A DISTANCE OF FIVE
- FEET (5) TO PROVIDE DRAINAGE AWAY FROM THE STRUCTURE OR AS APPROVED BY THE BUILDING OFFICIAL. 10. CONTRACTOR IS TO REFER TO THE SEQUOIA VALLEY TESTING AND INSPECTIONS SUPPLEMENTAL SOIL
- INVESTIGATION REPORT FOR ALL OVER-EXCAVATION RECOMMENDATIONS FOR THE SITE. 11. CONTRACTOR TO NOTIFY ENGINEER IF PAVEMENT SLOPES CAN NOT BE MET FOR DRAINAGE BEFORE CONSTRUCTION.
- 12. ALL IMPORT FILL MATERIAL SHALL CONFORM TO C.B.C., CHAPTER 33. COMPACTION TESTS ARE REQUIRED ON ALL LOT FILLS OR AREAS REQUIRING RECOMPACTION AFTER CLEARING, GRUBBING OR TREE REMOVAL OPERATIONS. FILL OR CUT IN EXCESS OF 6" TO ADJACENT PROPERTY MAY REQUIRE A RETAINING WALL.
- 13. LOCATION AND RELOCATION OF POWER POLES AND LOCATION AND REMOVAL OF IRRIGATION LINES AND RISERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 14. EXISTING IRRIGATION SHALL BE REPAIRED AS NECESSARY AND IRRIGATION SYSTEM TO BE INSTALLED AS
- NECESSARY FOR NEW VEGETATION. 15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, OR APPROPRIATE AGENCY, FOR
- APPROXIMATE LOCATIONS OF THEIR FACILITIES PRIOR TO COMMENCING ANY EXCAVATION. 16. CONTRACTOR SHALL EXPOSE ALL EXISTING PIPELINES OR OTHER UNDERGROUND OBSTRUCTIONS TO VERIFY THAT THERE ARE NO GRADE CONFLICTS PRIOR TO LAYING ANY GRAVITY PIPELINES UPSTREAM OF SAID PIPELINES OR OBSTRUCTIONS. FAILURE TO DO SO RELIEVES THE ENGINEER FROM FURTHER RESPONSIBILITY

ROAD IMPROVEMENT PLAN NOTES:

FOR SAID CONFLICT.

- 1. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.
- 2. PRIOR TO THE LAYING OF THE SUBBASE OR BASE MATERIAL ON THE ROADWAY, THE ENGINEER SHALL CERTIFY THAT THE SUB GRADE ELEVATIONS ARE IN CONFORMANCE WITH THE APPROVED PLANS.
- 3. ACTUAL ROAD SECTION THICKNESS (STRUCTURAL SECTIONS) SHALL BE DETERMINED FROM FINAL R-VALUES. 4. ALL SEWER, STORM DRAIN, WATER MAIN VALVES (CAP AND LID) AND UTILITY MANHOLES AFFECTED BY THIS PROJECT SHALL BE ADJUSTED TO GRADE AS NECESSARY AND INCLUDED IN THIS WORK.
- PRIOR TO FINAL ACCEPTANCE OF THIS SUBDIVISION, ALL CENTERLINE MONUMENTS SHALL BE PLACED PER COUNTY OF TULARE STANDARDS.
- 6. FOG SEAL SHALL BE APPLIED TO ALL ASPHALT CONCRETE SURFACING IN COMPLIANCE WITH SECTION 37 OF THE STATE STANDARD SPECIFICATIONS.
- 7. BROW DITCHES SHALL BE PROVIDED IN ALL AREAS TO PREVENT EROSION WHERE SIGNIFICANT CUTS ARE MADE TO ADJUST PROPOSED ROAD PROFILES.
- 8. ALL CURB AND GUTTER SHALL BE WATER TESTED UNDER THE DIRECTION AND IN THE PRESENCE OF THE CITY INSPECTOR PRIOR TO ANY ROAD OPERATION. 9. SIDEWALKS SHALL NOT BE POURED UNTIL ALL WATER METER BOXES AND SERVICES HAVE BEEN INSPECTED
- BY THE CITY AND ANY NECESSARY ROAD SIGNS HAVE BEEN INSTALLED. 10. THE CONTRACTOR SHALL PLACE A 4" Ø PVC SLEEVE OVER POSTS FOR ROAD SIGNS TO AID IN FUTURE
- REMOVAL AND REPLACEMENT. 11. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE LOCAL AGENCY AND OBTAIN AN APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING.

STORM DRAIN IMPROVEMENT PLAN NOTES:

- 1. STORM DRAINPIPE SHALL BE CMP OR R.G.R.C.P. CLASS III OR BETTER UNLESS OTHERWISE APPROVED. RUBBER GASKETS FOR CONCRETE PIPE SHALL COMPLY WITH ASTM STANDARDS. ALL PIPES SHALL BE TESTED TO APPROPRIATE LBS, RATING AS REQUIRED FOR TRAFFIC AND FIRE EQUIPMENT LOADING PER COUNTY OF TULARE STANDARDS.
- 2. ALL STORM DRAINPIPE SHALL HAVE A MINIMUM OF 36" COVER WITHIN CITY RIGHT OF WAY AND 24" FOR OTHER APPLICATIONS AS MEASURED FROM TOP OF THE CULVERT TO FINISHED SURFACE. SHALLOW PIPE SHALL REQUIRE A MINIMUM 2 SACK SLURRY BACKFILL OR STEEL CASING FOR PROTECTION.
- 3. ALL STORM DRAINAGE FACILITIES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE COUNTY OF TULARE STANDARD SPECIFICATION AND STANDARD PLANS. WHERE WITHIN THE JURISDICTION OF A COMMUNITY SERVICE DISTRICT, ALL WORK SHALL CONFORM TO THEIR REQUIREMENTS WHERE EXCEEDING THOSE OF THE CITY.
- 4. STORM DRAIN MAINS MUST BE INSTALLED AND TESTED PER COUNTY OF TULARE STANDARD
- REQUIREMENTS FOR GRAVITY PIPE AND PER THE MANUFACTURER'S SPECIFICATIONS. PROVIDE PADDLE MARKERS AT EACH END OF CULVERT CROSSING WHERE INTERSECTIONS ROADS. USE CALTRANS TYPE OR APPROVED EQUAL W/REFLECTIVE FACING. IN SNOW AREAS, MARKERS SHALL BE AT LEAST 6' HIGH AS MEASURED FROM FINISHED GRADE.
- 6. ALL BASINS DEEPER THAN 18" SHALL BE FENCED WITH 6' TALL CHAIN LINK OR APPROVED EQUAL. ALL CATCH BASINS AND MANHOLE LIDS WITHIN CITY RIGHT OF WAY SHALL BE ABLE TO WITHSTAND 7
- TRAFFIC LOADING AND BE COMPLIANCE WITH ADA REQUIREMENTS 8. THE SUB-DIVIDER AND CONTRACTORS SHALL INSTALL AND MAINTAIN PROTECTION AROUND STORM DRAIN INLETS DURING CONSTRUCTION TO PREVENT INFILTRATION OF MUD AND DIRT INTO THE STORM DRAIN SYSTEM.
- 9. ALL SEWER, STORM DRAIN, AND WATER MATERIAL SHALL BE IN NEW CONDITION AND SHALL BE SUBJECT TO THE INSPECTION AND ACCEPTANCE OF THE PUBLIC WORKS INSPECTOR PRIOR TO INSTALLATION. MATERIAL SHALL BE CLEARLY LABELED WITH THE APPROPRIATE MARKINGS AND SHALL NOT EXHIBIT SIGNS OF SUN EXPOSURE, WARPING, OR OTHER VISIBLE DEFECTS.

CONSTRUCTION

- 1. IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO ALL LOCAL AND CITY SPECIFICATIONS, PER THEIR REGULATIONS AND CODES NOT SHOWN OR DICTATED ON THESE PLANS, AND IN FULL COMPLIANCE OF SAFETY AND ENVIRONMENTAL REGULATIONS.
- 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY IRREGULARITIES OR ERRORS IN THE CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL POTHOLE, MEASURE, OR SURVEY TO CONFIRM DESIGN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING EXISTING
- IMPROVEMENTS SHALL BE INCLUDED IN THE PROPOSAL PRICE TO CLIENT. 4. CONSTRUCTION STAKING IS PROVIDED BY ENGINEER AND MUST BE REQUESTED 72 HOURS PRIOR.
- 5. CONSTRUCTION WATER PROVIDED TO CONTRACTOR BY OWNER
- 6. WORK SHALL CONSIST OF ALL EARTHWORK RELATED TO THE SITE: ALL DEMOLITION, CLEARING, GRUBBING, STRIPPING, ROUGH GRADING, EXCAVATION, IMPORT AND/OR EXPORT OF FILL, PROCESSING, PLACEMENT, AND COMPACTION OF FILL MATERIALS. PLACEMENT OF AGGREGATE BASE MATERIAL AND ALL WORK NECESSARY TO COMPLETE THE GRADING TO CONFORM TO THE LINES, GRADES AND SLOPES AS SHOWN ON THESE PLANS.
- 7. SITE CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE, AND NOTE ALL CONDITIONS AS TO THE CHARACTER AND EXTENT OF WORK INVOLVED
- 8. ALL ORGANIC MATERIAL, RUBBLE OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- 9. ANY EXISTING FILL AND/OR DISTURBED SUB-GRADE MATERIAL SHALL MEET THE COMPACTION REQUIREMENTS STATED IN NOTE 4 OF THE SOILS SECTION. ALL ORGANIC MATERIAL RUBBLE OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- 10. UNDERGROUND UTILITIES WILL BE WITHIN THE OVER-EXCAVATION FOOTPRINT. CONTRACTOR IS RESPONSIBLE TO TAKE NECESSARY PRECAUTIONS TO AVOID UNDERGROUND UTILITY DAMAGE.











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5+00	5+50	6+00	6+50	7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00
										HP: 266	0.78'	
					SLOPE = 0.00%						\	
										TOE:	264.35'	
5+00	5+50	6+00	6+50	7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00
				STATIC	<u>DN</u>							

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Elevations Table							
Minimum Elevation	Maximum Elevation	Color					
-4.04	-0.95						
-0.95	1.15						
1.15	3.69						
3.69	4.68						
4.68	9.41						
	Elevation Minimum Elevation -4.04 -0.95 1.15 3.69 4.68	Elevations Table Minimum Elevation Maximum Elevation -4.04 -0.95 -0.95 1.15 1.15 3.69 3.69 4.68 4.68 9.41					

DIRT BALANCE TABLE (CY)							
VOLUME	CUT	FILL	% MULTIPLIER				
FINISHED GRADING CUT/FILL	48377	41189	1.28*(FILL)				
OVER-EX AT 2' MIN	24302	31107	1.28*(FILL)				
TOTALS	72,679	72296	N/A				

DIRT BALANCE NOTE:

THIS PROJECT IS DESIGNED TO EXPORT DIRT. IF FOR ANY REASON AT ANY TIME IT DOESN'T BALANCE, PLEASE CONTACT THE ENGINEER AS SOON AS POSSIBLE TO REWORK THE MODEL. THE FINISHED GRADING AREA IS BASED FROM A 3D CAD MODEL. THE OTHER VOLUMES IN THE TABLE ARE ESTIMATED BASED UPON:

1. OVER EXCAVATION OF 2 FEET AND 5' OFFSETS FROM PROPOSED TOES WITH LOSSES OF 28% WITHIN REQUIRED AREAS

