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SPECIFICATIONS COTINUED:

SECTION 39 ALTERNATE A ASPHALT CONCRETE. -- ASPHALT CONCRETE SHALL CONFORM TO THE REQUIREMENTS IN SECTION 39. "ASPHALT CONCRETE," OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.

ASPHALT CONCRETE SHALL BE TYPE "B". AGGREGATE SHALL CONFORM TO THE 1/2-INCH MAXIMUM, COARSE OR MEDIUM GRADING AS DETERMINED BY THE ENGINEER AND DIRECTOR. AT THE CONTRACTOR'S OPTION, AND WITH APPROVAL OF THE ENGINEER AND DIRECTOR. AGGREGATE MAY BE 3/4-INCH MAXIMUM, MEDIUM GRADING WITH THE EXCEPTION OF THE FINAL FINISH COURSE.

AGGREGATE CONFORMING TO THE 3/8-INCH MAXIMUM GRADING WILL BE PERMITTED FOR USE IN DRIVEWAYS, DIKES AND OTHER AREAS WITH APPROVAL OF THE ENGINEER AND DIRECTOR. A MINIMUM OF 2 WEEKS PRIOR TO INTENDED USE, THE CONTRACTOR SHALL PROVED TO THE RESIDENT ENGINEER PROPOSED AGGREGATE SOURCES, GRADATIONS, AND AGGREGATE CHARACTERISTICS DEMONSTRATING COMPLIANCE WITH SECTION 39 OF THE STANDARD SPECIFICATIONS. A MIX DESIGN PERFORMED IN ACCORDANCE WITH CALIFORNIA TEST 367 SHALL BE PROVIDED FOR EACH TYPE AND SOURCE OF THE MATERIAL TO BE USED ON THE PROJECT. THE PROPOSED GRADATION SHALL PRODUCE A PRODUCT MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS WITHOUT EXCEEDING 4.5 PERCENT AIR VOIDS. THE EXACT AMOUNT OF ASPHALT BINDER TO BE MIXED WITH THE AGGREGATE WILL BE DETERMINED BY THE ENGINEER BASED ON THE TESTS RESULTS PROVIDED. THE ASPHALT BINDER SHALL BE GRADE PG 64-10 AS SPECIFIED IN SECTION 92, "ASPHALTS", OF THESE SPECIAL PROVISIONS.

WHEN THE ASPHALT CONCRETE IS TO BE PRODUCED IN A BATCH PLANT, THE ASPHALT CONCRETE SHALL BE PROPORTIONED AND MIXED BY THE AUTOMATIC METHOD. WHEN SHOWN IN THE ENGINEER'S ESTIMATE PRIME COAT, LIQUID ASPHALT PENETRATION GRADE SHALL BE SC-70 OR SC-250 AS DIRECTED BY THE ENGINEER AND DIRECTOR. THE PLACEMENT OF ASPHALT CONCRETE SHALL NOT BEGIN UNTIL 24 HOURS AFTER THE PRIME COAT IS APPLIED.

PAINT BINDER (TACK COAT) SHALL BE APPLIED AT A RATE OF APPROXIMATELY 0.05 GALLON PER SQUARE YARD, UNLESS OTHERWISE SHOWN ON THE PLANS. ALL STEEL-TIRED ROLLERS SHALL BE OF THE TANDEM TYPE. THE THIRD PARAGRAPH OF SECTION 39-5.02, "COMPACTING EQUIPMENT," OF THE STANDARD SPECIFICATIONS, SHALL BE

THE DUMPING OF MATERIAL IN A WINDROW, IN ACCORDANCE WITH SECTION 39-6.01. "GENERAL REQUIREMENTS," OF THE STANDARD SPECIFICATIONS, SHALL BE LIMITED TO 750

FEET IN ADVANCE OF THE PAVING MACHINE. THE SIXTH PARAGRAPH IN SECTION 39-6.01, "GENERAL REQUIREMENTS," OF THE STANDARD SPECIFICATIONS, SHALL BE AMENDED BY DELETING THE SECOND FOOTNOTE, WHICH READS, "AT THE OPTION OF THE CONTRACTOR, [0.25' OVERLAY] MAY BE PLACED IN ONE LAYER 0.25'

THE TENTH PARAGRAPH OF SECTION 39-6.03, "COMPACTING," OF THE STANDARD SPECIFICATIONS, ALLOWING THE USE OF "ALTERNATIVE COMPACTING EQUIPMENT" SHALL BE

UNLESS OTHERWISE SHOWN ON THE PLANS, ASPHALT PAVER EQUIPMENT USED TO PLACE ASPHALT CONCRETE SHALL BE EQUIPPED WITH FULL AUTOMATIC SCREED AND GRADE SENSING CONTROLS WHICH SHALL CONTROL THE LONGITUDINAL GRADE AND TRANSVERSE SLOPE OF THE SCREED, THE CONTROLS SHALL BE ACTUATED BY GRADE AND SLOPE REFERENCES. CORRECTIONS ON ACCOUNT OF DEVIATIONS FROM THE REFERENCES SHALL BE AUTOMATIC. GUIDES AND REFERENCES REQUIRED TO CONTROL THE LONGITUDINAL GRADE AND TRANSVERSE SLOPES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. SHOULD THE CONTRACTOR ELECT TO USE A SKI DEVICE FOR LONGITUDINAL CONTROL. THE MINIMUM LENGTH OF THE DEVICE SHALL BE 30 FEET. THE DEVICE SHALL BE A RIGID UNIT MOUNTED ON MULTIPLE SUPPORTS. EACH SUPPORT SHALL ACT INDEPENDENTLY OF OTHERS AND THE FINISHED GRADE SHALL NOT BE AFFECTED BY THE ACTION OF A SINGLE SUPPORT. WHEN ASPHALT CONCRETE GUTTERS ARE DESIGNATED ON THE PLANS, A STRINGLINE OR WIRE GRADE REFERENCE SHALL BE REQUIRED TO CONTROL LONGITUDINAL GRADE OF THE GUTTER. THE GUTTER SHALL BE WATER TESTED BEFORE ACCEPTANCE. THE MAXIMUM DEVIATION FROM A TRUE GRADE SHALL NOT RESULT IN PONDING WATER FOR DEPTH EXCEEDING 0.04 FOOT. SURFACING OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT, AT THE END OF EACH DAY'S WORK, THE DISTANCE BETWEEN THE ENDS OF ADJACENT SURFACED LANES SHALL NOT BE GREATER THAN CAN BE COMPLETED IN THE FOLLOWING DAY OF NORMAL SURFACING

PORTABLE DELINEATORS IN CONFORMANCE WITH SECTION 12-3.04, "PORTABLE DELINEATORS," OF THE STANDARD SPECIFICATIONS SHALL BE FURNISHED AND PLACED AT A MAXIMUM SPACING OF 300 FEET ON TANGENTS AND 100 FEET ON CURVES ALONG ANY EDGE OF NEW SURFACING WHICH HAS A DROP OFF OF MORE THAN 0.10 FOOT, DELINEATORS SHALL BE STAGGERED WHEN REQUIRED ON BOTH SIDES OF TRAFFIC.EXISTING PAVEMENT MARKERS SHALL BE REMOVED AND DISPOSED OF, UNLESS OTHERWISE SHOWN ON THE PLANS. DURING THE REMOVAL OF CERAMIC TYPE PAVEMENT MARKERS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE FURNISHED TO CONTAIN ANY FRAGMENTS AS PROVIDED FOR IN SECTION 7-1.09, "PUBLIC SAFETY," OF THE STANDARD SPECIFICATIONS.

SECTION 39 ALTERNATE E LIQUID ASPHALT (PRIME COAT), -- LIQUID ASPHALT (PRIME COAT) SHALL CONFORM TO THE REQUIREMENTS IN SECTIONS 39, "ASPHALT CONCRETE," AND 93. "LIQUID ASPHALT," OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. LIQUID ASPHALT SHALL BE GRADE SC-70 OR SC-250 AND SHALL BE APPLIED AT THE APPROXIMATE TOTAL RATE OF 0.25 GALLON PER SQUARE YARD IN ONE APPLICATION. THE GRADE AND EXACT RATE OF APPLICATION WILL BE DETERMINED BY THE ENGINEER AND THE DIRECTOR. LIQUID ASPHALT SHALL NOT BE APPLIED WHEN THE ATMOSPHERIC TEMPERATURE IS BELOW 50' F. AT LOCATIONS WHERE PUBLIC TRAFFIC IS BEING ROUTED OVER THE ROADBED TO BE TREATED, THE PRIME COAT SHALL NOT BE APPLIED TO MORE THAN ONE-HALF THE WIDTH OF THE TRAVELED WAY AT A TIME, AND THE REMAINING WIDTH SHALL BE KEPT FREE OF OBSTRUCTIONS AND OPEN FOR USE BY PUBLIC TRAFFIC UNTIL THE TREATMENT FIRST APPLIED IS READY FOR USE BY PUBLIC TRAFFIC. LIQUID ASPHALT SHALL NOT BE APPLIED UNTIL A MINIMUM OF 24 HOURS AFTER THE COUNTY HAS ACCEPTED THE AGGREGATE BASE FOR SURFACE TOLERANCES AND COMPACTION REQUIREMENTS.

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SECTION 92: ASPHALTS

92-1.01 DESCRIPTION

- Asphalt shall consist of refined petroleum or a mixture of refined asphalt and refined solid asphalt, prepared from crude petroleum. Asphalt shall be:
- A. Free from residues caused by the artificial distillation of coal, coal tar, or paraffin.
- B. Free from water. C. Homogeneous.
- **92-1.02 MATERIALS**

- The Contractor shall furnish asphalt under the Department's "Certification Program for Suppliers of Asphalt." The Department maintains the program requirements, procedures, and a list of approved suppliers at:
- http://www.dot.ca.gov/hq/esc/Translab/fpmcoc.htm
- The Contractor shall ensure the safe transportation, storage, use, and disposal of
- The Contractor shall prevent the formation of carbonized particles caused by overheating asphalt during manufacturing or construction.

(SPECS.cDS\sSS92-A)

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GRADES

· Performance graded (PG) asphalt binder shall meet the following:

Performano	e Graded As	Phait Binder				
	Specification					
	Grade					
AASHTO		T T]	1		
Test	PG PG	PG	PG	PG	PG	
Method	58-22	64-10	64-16	64-28	70-10	
	Original Bir	nder				
T48	230	230	230	230	230	
T44	99	99	99	99	99	
T316						
İ	3.0	3.0	3.0	3.0	3.0	
T315	1					
1	58	64	64	64	70	
<u> </u>	1.00	1.00	1.00	1.00	1.00	
T240				1		
<u> </u>	1.00	1.00	1.00	1.00	1.00	
RTF	O Test Age	d Binder				
T315			I			
1	58	64	64	64	70	
L	2.20	2.20	2.20	2.20	2.20	
T51					-	
	75	75	75	75	75	
R28						
	100	100	100	100	110	
RTFO Te	st and PAV	Aged Binder		1		
T315]			
	22 d	31 e	28 ^d	22 d	34 ^d	
	5000	5000	5000	5000	5000	
T313					7-7	
	-12	0	-6	-18	0	
	300	300	300	300	300	
	0.300	0.300	0.300	0.300	0.300	
	AASHTO Test Method T48 T44 T316 T315 T240 RTF T315 T51 R28 RTFO Te T315	AASHTO Test PG Method '58-22 a Original Bit T48 230 T44 99 T316 3.0 T315 58 1.00 T240 1.00 RTFO Test Age T315 58 2.20 T51 75 R28 100 RTFO Test and PAV T315 22 d 5000 T313 -12 300	Test Method '58-22 64-10 Original Binder T48	AASHTO Test PG PG PG Method '58-22 a 64-10 64-16 Criginal Binder T48 230 230 230 T44 99 99 99 T316 3.0 3.0 3.0 T315 58 64 64 1.00 1.00 1.00 T240 1.00 1.00 1.00 RTFO Test Aged Binder T315 58 64 64 2.20 2.20 2.20 T51 75 75 75 R28 100 100 100 RTFO Test and PAV Aged Binder T315 22 d 31 e 28 d 5000 5000 T313 -12 0 -6 300 300	AASHTO PG PG PG 64-10 64-16 64-28	

- a. For use as asphalt rubber base stock for high mountain and high desert area.
 b. The Engineer will waive this specification if the supplier is a Quality Supplier as defined by the Departments.
- "Certification Program for Suppliers of Asphalt." c. The Engineer will waive this specification if the supplier certifies the asphalt binder can be adequately
- pumped and mixed at temperatures meeting applicable safety standards.
- d. The Department will test the sample at 3°C higher if it fails at the specified test temperature. G*sin(delta) shall remain 5000 kPa maximum.
- e. 'RTFO Test' means the asphaltic residue obtained using the Rolling Thin Film Oven Test, AASHTO Test
- Method T240 or ASTM Designation: D 2872. f. "PAV" means Pressurized Aging Vessel.

(SPECS.CDS\88892-A)

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Performance based asphalt (PBA) binder shall meet the following:

Performance Based AsPhalt Binder

]	ŀ	Spe	cification	
		Grade			
Property	AASHTO Test Methodi	PBA 6a	PBA 6a(mod)	PBA 6b	PBA
Absolute Viscosity (60°C), Pa's(x10 ⁻¹) ^a	T202		5-1110-07		<u> </u>
Original Binder, Minimum		2000	2000	2000	1100
RTFO Aged Residue b, Minimum	1	5000	5000	5000	3000
Kinematic Viscosity (135°C), m²/s(x10°)	T201				
Original Binder, Maximum		2000	2000	2000	2000
RTFO Aged Residue b, Minimum		275	275	275	275
Absolute Viscosity Ratio (60°C), Maximum					
RTFO Test Visc./Orig. Visc.		4.0	4.0	4.0	4.0
Flash Point, Cleveland Open Cup, °C, ^d Original Binder, Minimum	T48				1.5
	1	232	232	232	232
Mass Loss After RTFO Test, %	T240	0.60	0.60	0.60	0.60
Solubility in Trichloroethylene, % C Original Binder, Minimum	T44	Report	Report	Report	Report
Ductility (25°C, 5 cm/min), cm	T51	-	•	•	
RTFO Aged Residue b, Minimum		- 60_	60	60	75
On RTFO Aged Residue ^b , °C: 1 to 10 rad/sec: SSD ¹ 0 and	g				
Phase Angle (at 1 rad/sec) < 72°	1	_	35	_	
On Residue from	R28			"	
PAV hat temp., *C		100	100	100	110
Or Residue from Tilt Oven *(@ 113°C), hours		36	36	36	72
SSD -115(SSV)-50.6, °C	g		_		25
Stiffness,	T313				
Test Temperature, °C]]	-24	-24	-30	-6
Maximum S-value, MPa	[300	300	300	300
Minimum M-value	1 1	0.300	0.300	0.300	0.300

- a. Absolute viscosity (60°C) will be determined at one sec¹ using ASTM Designation: D 4957 with Asphalt Institute vacuum capillary viscometers.
- "RTFO Aged Residue" means the asphaltic residue obtained using the Rolling Thin Film Oven Test (RTFO Test), AASHTO Test Method T240 or ASTM Designation: D 2872.
- There is no requirement, however results of the test shall be part of the certified copy of test results furnished with the Certificate of Compliance.
- d. Actual results of the test shall be part of the certified copy of test results and if PBA Grade 6a, 6b, or 7 is used, an additional statement verifying an acceptable flash point shall be included with the Certificate of Compliance.
- "Residue from Tilt Oven" means the asphalt obtained using California Test 374, Method B, "Method for Determining Asphalt Durability Using the California lilt-Oven Durability Test."
- "SSD" means Shear Susceptibility of Delta; "SSV" means Shear Susceptibility of Viscosity.
- California Test 381. h. "PAV" means Pressurized Aging Vessel.

(SPECS.CDS\SSS92-A)

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2. In trucks equipped with a calibrated thermometer that determines the asohalt temperature at the time of delivery and equipped with a vehicle tank meter meeting Section 9-1.01, "Measurement of Quantities," for weighing, measuring, and metering devices.

• If the Contractor furnishes asphalt concrete from a mixing plant producing material for only one project, the Department will determine the amount of asphalt from volumetric measurements by measuring the amount in the tank at the start and the end of the project provided the tank is calibrated and equipped with its measuring stick and calibration card. The Engineer will determine pay quantities under the following:

- A. Before converting the volume to mass, the Engineer will reduce the volume measured to that which the asphalt would occupy at 15°C.
- B. The Engineer will use 981 Utonne and 1020 g/L for the average weight and volume for both PG and PBA grades of asphalt at 15°C.
- C. The Engineer will use the Conversion Table in Section 93, "Liquid Asphalts."

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SAMPLING

• The Contractor shall provide a sampling device in the asphalt feed line connecting plant storage tanks to the asphalt weighing system or spray bar. The sampling device shall be accessible between 600 mm and 750 mm above the platform. The Contractor shall provide a receptacle for flushing the sampling device.

- The sampling device shall include a valve:
- A. With a diameter between 10 mm and 20 mm.
- B. Manufactured in a manner that a one-liter sample may be taken slowly at any time during plant operations.
- C. Maintained in good condition.
- The Contractor shall replace failed valves.
- In the presence of the Engineer, the Contractor will take 2 one-liter samples per operating day. The Contractor shall provide round, friction top, one-liter containers for storing samples.
- 92-1.03 APPLYING ASPHALT
- Unless otherwise specified, the Contractor shall heat and apply asphalt in conformance with the provisions in Section 93, "Liquid Asphalts."
- The Contractor shall apply paving asphalt at a temperature between 120°C and 190°C. The Engineer will determine the exact temperature of paving asphalt.

92-1.04 MEASUREMENT

- if asphalt is paid as a contract work item on a mass basis, the Department will measure asphalt by the tonne under the provisions for determining the mass for payment of liquid asphalt in Section 93, "Liquid Asphalt."
- The Engineer will determine the mass of asphalt from volumetric measurements if the Contractor:
 - A. Uses partial loads of asphalt.
 - B. Uses asphalt at locations other than a mixing plant and no suitable scales are available within 35 km.
 - C. Delivers asphalt meeting either of the following:
 - 1. In calibrated trucks and each tank is accompanied by its measuring stick and calibration card.

(SPECS.CDS\SS892-A)

ASSOCIATES, Services

EXP. 9/30/2009

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BAGLEY 20265

Design AMC

Check AMC Date 01/15/08

Scale = 10'

Original Drawing Scale **½"** 1"

Of **3**

Sheet Number

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(SPECS.COSASSS92-A

- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL APPLY CONTINUOSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS, THE COUNTY OF SAN JOAQUIN, ITS ELECTED OFFICIALS, OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL CLAIMS, COSTS OF LITIGATION, DAMAGES, AND ATTORNEY'S FEES, FOR PERSONAL INJURY OR PROPERTY DAMAGE OF WHATEVER NATURE WHICH ARE CLAIMED TO HAVE OCCURRED DURING THE TERM OF THIS PROJECT.
- ALL NEW IMPROVEMENTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS, THE AIRPORT EAST SPECIAL PURPOSE PLAN, AND THE LATEST EDITION OF THE COUNTY OF SAN JOAQUIN STANDARD PLANS AND SPECIFICATIONS AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (WITH EXCEPTION THAT ENGLISH UNITS ARE TO BE USED IN PLACE OF METRIC).
- THE INTENT IS THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS (EXCEPT AS SPECIFIED IN THE SPECIAL PROVISIONS) NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES AND AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS IF THE PLANS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- THE TYPES, LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM "OUTSIDE SOURCES". THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATION, AND DEPTHS OF SUCH UNDERGROUND UTILITIES CONTI & ASSOCIATES, INC. CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION, AND SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT 1-800-642-2444) 48 HOURS PRIOR TO BEGIN CONSTRUCTION
- 6. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 1540 (A)(1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATE: PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION: I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION. THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING AND/OR DIGGING; AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FROM THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
- ANY CHANGES TO THE APPROVED IMPROVEMENT PLANS AND SPECIFICATIONS MUST BE PREPARED AND CERTIFIED BY THE "ENGINEER", AND SHALL BE SUBMITTED TO THE DIRECTOR OF PUBLIC WORKS FOR APPROVAL PRIOR TO
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE REMOVAL AND/OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
- FINAL PAVEMENT WORK SHALL NOT OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF UTILITY RELOCATION WITHOUT SPECIFIC APPROVAL OF THE COUNTY OF SAN JOAQUIN
- A TRAFFIC CONTROL PLAN (TCP) DRAWN TO SCALE SHALL BE SUBMITTED TO AND APPROVED BY THE COUNTY PRIOR TO START OF WORK. THE TCP SHALL ADDRESS ALL PHASES OF THE WORK WHICH WILL IMPACT PUBLIC TRAFFIC.
- CONFORMANCE WITH THE TCP SHALL BE MAINTAINED AT ALL TIMES.
 A MINIMUM OF ONE 10-FOOT TRAFFIC LANE SHALL BE MAINTAINED AT ALL TIMES, WITH TRAFFIC DELAYS LIMITED TO A MAXIMUM OF 15 MINUTES. A MINIMUM OF TWO 10-FOOT TRAFFIC LANES SHALL BE MAINTAINED DURING NON-WORKING HOURS. TRAFFIC CONTROLS SHALL BE IN CONFORMANCE WITH SECTION 12 OF THE CALTRANS STANDARD SPECIFICATIONS.
- ALL TRAFFIC SIGNS AND MARKINGS SHALL CONFORM THE TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), AND THE MUTCD CALIFORNIA SUPPLEMENT AND SAN JOAQUIN COUNTY STANDARDS AND AS SHOWN ON THE
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SITE AND SURROUNDING AREAS RESULTING FROM OPERATIONS PRIOR TO ACCEPTANCE OF HIS WORK.
- 15. DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING FACILITIES. THE CONTRACTOR IS RESPONSIBLE TO REPAIR, TO THE SATISFACTION OF THE COUNTY OF SAN JOAQUIN, ANY FACILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 16. CONTRACTOR TO REFERENCE AND RESTORE ALL "RECORDED" EXISTING MONUMENTS AND/OR PROPERTY CORNER REFERENCES DESTROYED, REMOVED OR DISTURBED DURING THE COURSE OF CONSTRUCTION
- DRAINAGE FACILITIES SHALL BE MAINTAINED DURING PERIODS OF INCLEMENT WEATHER AND RESTORED TO THEIR
- ORIGINAL CONDITIONS UPON COMPLETION OF THE WORK.
 WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THE SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER
- THAN THE MATERIALS USED IN THE ORIGINAL PAVING. 19. ANY CONSTRUCTION ACTIVITY THAT RESULTS IN THE DISTURBANCE OF AT LEAST ONE (1) ACRE OF SOIL SHALL REQUIRE A STATE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM CONSTRUCTION PERMIT.

CONSTRUCTION NCTES:

- THE CENTERLINE STATIONING SHOWN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL LAYOUT IMPROVEMENTS FROM THE DIMENSIONS SHOWN ON THE PLANS. ANY CLARIFICATION ON CONFLICTS, DISCREPANCIES OR AMBIGUITIES SHOULD BE DIRECTED TO THE "ENGINEER" PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENTS.
- 2. WHERE PAVEMENT IS TO BE EXTENDED, EXISTING PAVEMENT SHALL BE SAWCUT.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SIGNS FOR ALL REGULATORY TRAFFIC SIGNS REMOVED DURING THE COURSE OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL PROVIDE OWN CONSTRUCTION WATER,
- CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION AS PER SECTION 10 OF THE STANDARD SPECIFICATIONS OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS REQUIREMENTS.

SPECIFICATIONS:

SECTION 3-4 GUARANTEE .-- THE COMPLETED PROJECT, INCLUDING ALL WORK MATERIALS, DEVICES AND EQUIPMENT SHALL BE GUARANTEED BY THE DEVELOPER AGAINST FAULTY WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE DIRECTOR OF PUBLIC WORKS. THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL REPAIR AND/OR REPLACEMENTS INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, DEVICES, PLANT AND OTHER ITEMS OF WORK NECESSARY. TO SECURE THIS GUARANTEE, A BOND OR OTHER SECURITY SHALL BE PROVIDED IN THE AMOUNT OF 100% (DEPARTMENT OF PUBLIC WORKS DETERMINES IF 100% PEERFORMANCE CAN BE REDUCED TO 20%) OF THE VALUE OF WORK ESTIMATED BY THE ENGINEER. SAID BOND SHALL CONTINUE IN FULL FORCE AND EFFECT FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FORMAL ACCEPTANCE OF THE WORK BY THE DIRECTOR OF PUBLIC WORKS OR BOARD OF SUPERVISORS.

> COUNTY OF SAN JOAQUIN DEPARTMENT OF PUBLIC WORKS

PS-08-00329

01/30/08

SPECIFICATIONS CONTINUED:

SECTION 3-5 INSPECTION DURING CONSTRUCTION. -- ANY IMPROVEMENTS CONSTRUCTED TO THESE SPECIFICATIONS AND WHICH IT IS INTENDED THAT THE COUNTY WILL ASSUME MAINTENANCE RESPONSIBILITY, MUST BE INSPECTED DURING CONSTRUCTION BY AN AUTHORIZED AGENT OF THE DEVELOPER AND DIRECTOR. EACH PHASE OF CONSTRUCTION MUST BE INSPECTED AND APPROVED PRIOR TO PROCEEDING TO THE SUBSEQUENT PHASES

ANY IMPROVEMENTS CONSTRUCTED WITHOUT INSPECTION AS PROVIDED ABOVE OR CONSTRUCTED CONTRARY TO THE ORDERS OR INSTRUCTIONS OF THE AUTHORIZED AGENT OF THE DEVELOPER AND DIRECTOR WILL BE DEEMED AS NOT COMPLYING WITH SAN JOAQUIN COUNTY STANDARDS AND SPECIFICATIONS, AND WILL NOT BE ACCEPTED BY SAN JOAQUIN COUNTY FOR MAINTENANCE PURPOSES. THE DEVELOPER WILL HAVE COMPACTION TESTS TAKEN ON ALL LOTS WHERE THE DEPTH OF FILL IS GREATER THAN SEVEN (7") INCHES AND WITHIN THE STREETS. RE-TEST THAT ARE THE RESULT OF THE CONTRACTOR'S FAILURE TO COMPACT THESE AREAS AS REQUIRED WILL BE BORNE BY THE CONTRACTOR. THE COUNTY DEPARTMENT OF PUBLIC WORKS WILL PERFORM FIELD INSPECTION FOR THIS PROJECT, THE CIVIL ENGINEER. DIRECTOR AND DEVELOPER, OR THEIR AGENTS, SHALL AT ALL TIMES, HAVE ACCESS TO THE WORK DURING ITS CONSTRUCTION, AND SHALL BE FURNISHED WITH EVERY REASONABLE FACILITY FOR ASCERTAINING THAT THE MATERIALS AND THE WORKMANSHIP ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENTIONS OF THESE SPECIFICATIONS. SPECIAL PROVISIONS, AND PLANS. ALL WORK DONE AND ALL MATERIALS FURNISHED SHALL BE SUBJECT TO REVIEW, THE REVIEW OF THE WORK OR MATERIALS SHALL NOT RELIEVE THE CONTRACTOR AND DEVELOPER OF ANY OF THEIR OBLIGATIONS TO FULFILL THEIR CONTRACT AS PRESCRIBED

SECTION 3-6 FINAL REVIEW. -- UPON COMPLETION OF ALL IMPROVEMENTS WHICH ARE CONSTRUCTED UNDER AND IN CONFORMANCE WITH THESE STANDARDS AND SPECIFICATIONS, AND PRIOR TO REQUESTING FINAL INSPECTION, THE AREA SHALL BE THOROUGHLY CLEANED OF ALL RUBBISH, EXCESS MATERIAL AND EQUIPMENT; AND ALL PORTIONS OF THE WORK SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION, SATISFACTORY TO THE DIRECTOR AND THE DEVELOPER.

SECTION 3-7 RECORD DRAWINGS .-- THE CIVIL ENGINEER SHALL KEEP AN ACCURATE RECORD OF ALL APPROVED DEVIATIONS FROM THE PLANS AND SHALL PROVIDE A COPY OF THESE RECORDS TO THE DIRECTOR UPON COMPLETION OF THE WORK, THESE ARE TO BE UTILIZED WITH THE INSPECTOR'S PLANS FOR PREPARING A COMPLETE AND ACCURATE SET OF "RECORD DRAWINGS" FOR THE PERMANENT RECORDS OF THE COUNTY. PREPARATION OF THE "RECORD DRAWINGS" IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS CIVIL ENGINEER. "RECORD DRAWINGS" SHALL BE SUBMITTED TO THE DIRECTOR PRIOR TO ACCEPTANCE OF WORK AS COMPLETE. APPROVED DEVIATIONS SHALL BE RECORDED IN RED INK ON THE ORIGINAL APPROVED PLANS, NOT REPRODUCIBLE COPIES. THE ORIGINAL PLANS SHALL NOT BE REMOVED FROM THE DEPARTMENT OF PUBLIC WORKS FOR PREPARATION OF "RECORD DRAWINGS". A WORK AREA WILL BE AVAILABLE FOR MAKING ADDITIONS OR CORRECTIONS, AS WILL THE "RECORD DRAWING" STAMP AND PEN WITH RED INK, IF REQUESTED.

SECTION 7 ALTERNATE A. MAINTAINING TRAFFIC .-- ATTENTION IS DIRECTED TO SECTIONS 7-1.08, "PUBLIC CONVENIENCE", 7-1.09, "PUBLIC SAFETY," AND 12, "CONSTRUCTION AREA TRAFFIC CONTROL DEVICES," OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MUTCD CALIFORNIA SUPPLEMENT AND THE CURRENT WORK AREA TRAFFIC CONTROL HANDBOOK. (BUILDING NEWS), THROUGH PUBLIC TRAFFIC SHALL BE PERMITTED TO PASS THROUGH CONSTRUCTION OPERATIONS AT ALL TIMES WITH AS LITTLE INCONVENIENCE AND DELAY AS POSSIBLE. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL CONSTRUCTION AREA TRAFFIC CONTROL DEVICES WITHIN THE PROJECT AND AT ALL PUBLIC ROAD ENTRANCES TO THE PROJECT.

<u>SECTION 10 DUST CONTROL</u>.——DUST CONTROL SHALL CONFORM TO THE REQUIREMENTS IN SECTION 10, "DUST CONTROL." OF THE STANDARD SPECIFICATIONS.

SECTION 16 ALTERNATE A CLEARING AND GRUBBING. -- CLEARING AND GRUBBING SHALL CONFORM TO THE REQUIREMENTS IN SECTION 16, "CLEARING AND GRUBBING," OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.

TREE BRANCHES EXTENDING OVER THE ROADWAY PAVEMENT AND WHICH HANG WITHIN 15 FEET OF FINISHED GRADE SHALL BE CUT OFF IN A WORKMANLIKE MANNER.

BURNING WILL BE ALLOWED WHEN PERMITTED BY THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT. SECTION 19 ALTERNATE A EARTHWORK, -- EARTHWORK SHALL CONFORM TO THE REQUIREMENTS IN SECTION 19, "EARTHWORK." OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. ALL RELATIVE COMPACTION REQUIREMENTS OF SECTION 19-5, "COMPACTION," OF THE STANDARD SPECIFICATIONS, SHALL BE NOT LESS THAN 90 PERCENT. THE REQUIREMENT OF THE SECOND PARAGRAPH OF SECTION 19-5.03, "RELATIVE COMPACTION (95 PERCENT)" OF THE STANDARD SPECIFICATIONS, WILL BE REQUIRED ONLY IN THOSE AREAS SHOWN ON THE PLANS. IN LIEU OF THE TOLERANCE SPECIFIED IN SECTION 19-1.03B, "GRADE TOLERANCE," OF THE STANDARD SPECIFICATIONS, THE SURFACE OF THE GRADING PLANE SHALL NOT BE MORE THAN 0.05 FOOT ABOVE OR BELOW THE GRADE ESTABLISHED BY THE ENGINEER. BEFORE GRADE IS APPROVED BY THE COUNTY, ALL EARTHWORK (INCLUDING DRIVEWAYS AND SLOPES) SHALL BE COMPACTED TO GRADE. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL SURPLUS MATERIALS NOT TO BE SALVAGED, STOCKPILED OR DISPOSED OF AS PROVIDED IN SECTION 19-2.06, "SURPLUS MATERIAL," OF THE STANDARD SPECIFICATIONS, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AS PROVIDED IN SECTION 7-1.13. "DISPOSAL OF MATERIAL OUTSIDE THE HIGHWAY RIGHT OF WAY." OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE SHOWN ON THE PLANS, THE EXISTING PAVEMENT, WHEN USED AS EMBANKMENT, SHALL BE BROKEN UP INTO PIECES NOT LARGER THAN 0.33 FOOT IN GREATEST DIMENSION.

SECTION 19 ALTERNATE C EARTHWORK (STRUCTURE EXCAVATION & BACKFILL). -- STRUCTURE EXCAVATION AND BACKFILL SHALL CONFORM TO THE REQUIREMENTS IN SECTION 19-3, "STRUCTURE EXCAVATION AND BACKFILL," OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. ALL REFERENCES TO CULVERT EXCAVATION AND CULVERT BACKFILL ON THE PLANS SHALL BE DEEMED TO MEAN STRUCTURE EXCAVATION AND STRUCTURE BACKFILL, RESPECTIVELY, IN THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. STRUCTURE BACKFILL WHICH IS OUTSIDE OF THE PAVED PORTIONS OF THE ROADWAY, UNLESS OTHERWISE SPECIFIED ON THE PLANS, SHALL BE NATIVE MATERIAL SELECTED FOR ITS RESISTANCE TO EROSION. COMPACTION REQUIREMENTS: UNLESS OTHERWISE SHOWN ON THE PLANS, THE COMPACTION REQUIREMENTS WITHIN THE LIMITS OF STRUCTURE EXCAVATION FOR PIPES AND ARCHES SHALL BE AS SHOWN ON STANDARD DRAWINGS. PONDING AND JETTING WILL BE PERMITTED ONLY IF A MAINTENANCE BOND IN THE AMOUNT OF TWENTY PERCENT (20%) OF THE ENGINEER'S ESTIMATE WITH A CORPORATE SURETY APPROVED BY THE COUNTY IS PROVIDED. SUCH A BOND SHALL BE PROVIDED BEFORE FINAL ACCEPTANCE OF THE PROJECT BY THE COUNTY AND SHALL GUARANTEE THE REPAIR OF ALL DAMAGES DUE TO FAULTY MATERIALS OR WORKMANSHIP PROVIDED OR DONE BY THE CONTRACTOR. THE GUARANTEE SHALL REMAIN IN EFFECT FOR A PERIOD OF THREE (3) YEARS AFTER THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE COUNTY OR BOARD OF SUPERVISORS.

SECTION 22 FINISHING ROADWAY. -- FINISHING ROADWAY SHALL CONFORM TO THE REQUIREMENTS IN SECTION 22. "FINISHING ROADWAY," OF THE STANDARD SPECIFICATIONS.

LINETYPES

PROPOSED

SECTION 92 ASPHALTS -- PLEASE REFER TO SHEET 2 FOR CONTINUATION

SECTION 26 ALTERNATE A AGGREGATE BASE. -- AGGREGATE BASE SHALL CONFORM TO THE REQUIREMENTS IN SECTION 26, "AGGREGATE BASES," OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS, AGGREGATE BASE SHALL BE CLASS 2. THE COMBINED AGGREGATE SHALL CONFORM TO THE GRADING SPECIFIED FOR THE 3/4-INCH MAXIMUM AGGREGATE. THE R-VALUE REQUIREMENT MAY BE WAIVED, PROVIDING THE AGGREGATE BASE COMFORMS TO THE SPECIFIED GRADING AND DURABILITY AND HAS A SAND EQUIVALENT VALUE OF 33 OR MORE.

EXISTING

--- T ---

--- OH ---

---14---

DESCRIPTION

GAS LINE

---10"W--- WATER LINE (COS)

--- EP--- EDGE OF PAVEMENT

STORM DRAIN LINE

SANITARY SEWER LINE

COMMUNICATION LINE

OVERHEAD LINE

IMPROVEMENT PLANS

WORLAND & BAGLEY BOARDING FACILITY

LODI, SAN JOAQUIN COUNTY, CALIFORNIA

PA-07-242

BENCHMARK DESCRIPTION: SAN JOAQUIN COUNTY BENCHMARK Y-9 ELLEVATION: 15.44 LEGEND AND CIVIL NOTES ONSITE BENCHMARK: CIVIL NOTES TOP OF REBAR AT THE SOUTHEAST CORNER OF THE PROPERTY

ELEVATION: 14.58

ABBREVIATIONS

BM

CONC

ELEV

INV

AGGREGATE BASE

BENCH MARK

CATCH BASIN

CENTERLINE

CUBIC YARD

CONCRETE

DIAMETER

ELEVATION

FINISH GRADE

FIRE HYDRANT

FLOW LINE

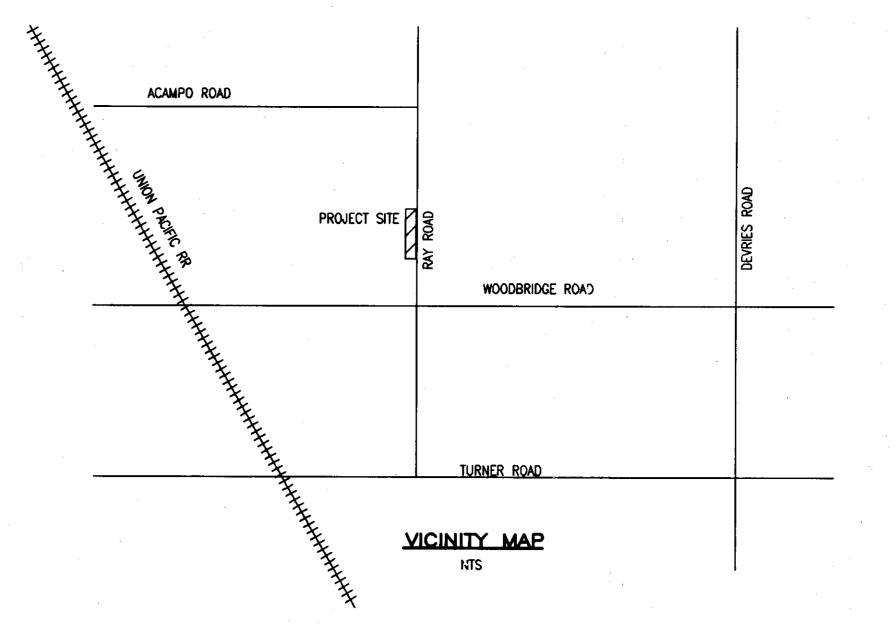
FEET

GAS

INVERT

EXIST/(E) EXISTING

ASPHALTIC CONCRETE



LEGEND

		VODV 004100		(F)	2		
	NEW	VORK SYMBO EXISTING	DESCRIPTION	AGL 2026	GE		
LINEAL FEET	• • • • • • • • • • • • • • • • • • •	(i)	DROP INLET CATCH BASIN STORM DRAIN MAINTENANCE HOLE	B/			
MAXIMUM MAINTENANCE HOLE	(S) (S) SANITARY SEWER MAINTENANCE HOLE			Design A	Design AMC		
MINIMUM NOT IN CONTRACT NOT TO SCALE	\\ □- > +4	(((((((((((((WATER METER BLOWOFF VALVE FIRE HYDRANT ASSEMBLY	Check A	MC		
POST INDICATOR VALVE PROPERTY LINE POWER POLE	¥	M	WATER VALVE POST INDICATOR VALVE	ļ	5/08		
RIGHT RIGHT OF WAY	# H H	\$	FIRE DEPARTMENT CONNECTION CHECK VALVE BACKFLOW PREVENTER	Scale	= 10'		
SLOPE STORM DRAIN SANITARY SEWER	■	5—\$\$ ∙ ○ □	PULL BOX UTILITY POLE STREET LIGHT	Original Dr	rawing Scat		
STATION STANDARD	S=0.003	* 6.3 ⁴	PIPE SLOPE SPOT ELEVATION	Sheet N	lumber		
TELEPHONE TOP OF CURB TYPICAL	1.05	1345.58	HORIZONTAL CONTROL	1	Of 3		
WATER	E ATAS.	E ATAS.			File No. -103		
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FRONTAGE IMPROVEMENTS

NO. 62009 EXP. 9/30/2009

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