

GENERAL NOTES AND SPECIFICATION DATA--

SPECIFICATION DATA
TEST TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARD TEST METHODS

ITEM	DESCRIPTION	% RETAINED, SIEVES	CONSTANTS	BALL	NOTE
132	EMBANK (DENS CONT)	40	8		
	(TY C)				

MINIMUM COMPACTION REQUIREMENTS FOR BASE COURSES
% DENSITY AS DETERMINED BY COMPACTION RATIO (TEX-113-E)

MATERIAL	ROADWAY	RAMPS	
260	LIME TREAT SUBGR	ALL	95

BASIS OF ESTIMATE FOR PERMANENT CONSTRUCTION

ITEM	DESCRIPTION	RATE	UNIT	QUANTITY
186	FERT (13-13-13)	112.0	KG N /HA	0.505 MG
168	VEGETATIVE WATERING	76.0	KL/M2	852.9 KL
204	* SPRINK (DUST CONT)	3758	KL/KM	3614.6 KL
260	** LIME (TY A, B OR C SLURRY)	6.00%	BY WT	430.2 MG
3022	ASPH CONC (TY B)	2.349	KG/M2/MM	2033.9 MG

NOTE:
* CONTRACTOR'S INFORMATION ONLY

SPECIFICATION DATA
08/21 SHEET A

0.131 MG
886.1 KL
401.0 MG
4675.8 MG

GENERAL NOTES AND SPECIFICATION DATA--

** SUBGRADE WEIGHT BASED ON 1763 KG/M3 (DRY-COMPACTED)

GENERAL:

PRIOR TO CONTRACT LETTING, REPRODUCIBLE EARTHWORK CROSS SECTIONS WILL BE AVAILABLE AT THE DISTRICT OFFICE FOR BORROWING BY COPYING-SERVICE COMPANIES FOR THE PURPOSE OF MAKING COPIES FOR THE PROSPECTIVE BIDDERS AT THE PROSPECTIVE BIDDERS' EXPENSE.

THE CONSTRUCTION, OPERATION AND MAINTENANCE OF THIS PROPOSED PROJECT WILL BE CONSISTENT WITH THE STATE IMPLEMENTATION PLAN AS PREPARED BY THE TEXAS AIR CONTROL BOARD.

THE DETERMINATION OF THE LIQUID LIMIT OF SOILS SHALL BE IN ACCORDANCE WITH TEST METHOD TEX-104-E.

ERECTION OF POLES, LUMINAIRES AND STRUCTURES LOCATED NEAR ANY OVERHEAD OR UNDERGROUND UTILITIES SHALL BE ACCOMPLISHED USING ESTABLISHED INDUSTRY AND UTILITY SAFETY PRACTICES. THE CONTRACTOR SHALL CONSULT WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING SUCH WORK.

THE CONTRACTOR IS RESPONSIBLE FOR STABILIZING ALL UNPAVED AREAS OF THE PROJECT WITH A MINIMUM 70% DENSITY OF VEGETATIVE COVER. THIS IS TO BE ACCOMPLISHED UTILIZING THE ITEMS IN THIS CONTRACT.

ONE WATER VALVE AND ONE SANITARY SEWER CLEAN OUT SHALL BE ADJUSTED. NO DIRECT PAYMENT SHALL BE MADE FOR THESE ADJUSTMENTS, BUT SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.

THE SW3P (STORM WATER POLLUTION PREVENTION PLAN) FOR THIS PROJECT SHALL CONSIST OF USING THE FOLLOWING ITEMS AS DIRECTED BY THE ENGINEER:

BALED HAY
CONSTRUCTION EXITS
BACKHOE OR FRONT-END LOADER WORK FOR EROSION CONTROL

THIS WORK SHALL BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.

SPECIFICATION DATA
08/21 SHEET B

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 100:
THE LIMITS OF PREPARING RIGHT OF WAY WILL BE AS SHOWN IN THE SUMMARY TABLE.

CLEARING AND GRUBBING WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

AT STATION 0+280.000, 13.929 RT. REMOVAL OF CONCRETE RETAINING WALL WOOD FENCE, BRICK COLUMN AND RETAINING WALL FOOTING TO THE RIGHT OF LINE SHALL BE PAID FOR UNDER THIS ITEM.

ITEM 104:
ALL OF THE EXISTING OLD CONCRETE TO BE REMOVED ON THIS PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY HIM OR THE LIMITS OF THE RIGHT OF WAY AT HIS OWN EXPENSE AND IN A MANNER APPROVED BY THE ENGINEER.

THE SQUARE METER QUANTITY OF SIDEWALK REMOVAL IS INCLUDED IN CONCRETE PAVEMENT REMOVAL AND SHALL BE PAID AS CONCRETE PAVEMENT REMOVAL.

ITEM 105:
EXISTING ASPHALT TO BE REMOVED SHALL BE SAWED ALONG NEAT LINES SHEET PORTIONS ARE TO BE LEFT IN PLACE TEMPORARILY OR PERMANENTLY. SAWING WILL BE CONSIDERED SUBSIDIARY TO THIS ITEM AND NO DIRECT PAYMENT WILL BE MADE.

ALL OF THE EXISTING ASPHALT TO BE REMOVED, AS SHOWN ON THE PLANS, IS TO BE SOLD TO THE CONTRACTOR. ALL ASPHALT MATERIAL TO BE REMOVED SHALL BE HAULED OFF THE PROJECT IMMEDIATELY. STOCKPILED ASPHALT MATERIAL ON SITE WILL NOT BE ALLOWED.

ITEM 110:
EXCAVATION FOR DRIVEWAYS, SLEEPER SLABS, ALLEYS AND INTERSECTIONS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

SPECIFICATION DATA
08/21 SHEET C

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 132:
WHEN THE MOISTURE CONTENT OF THE EMBANKMENT EXCEEDS THE SPECIFIED OPTIMUM CONTENT, AS DETERMINED BY THE ENGINEER, IT SHALL BE AERATED BY DISKING, HARROWING, BLADING OR OTHER MEANS SATISFACTORY TO THE ENGINEER, TO REDUCE THE MOISTURE CONTENT TO THE OPTIMUM CONDITION BEFORE ROLLING COMMENCES. THE CONTRACTOR WILL NOT BE PERMITTED TO AERATE WET MATERIAL WITH COMPACTION EQUIPMENT SUCH AS SHEEPSFOOT ROLLERS OR OTHER DEVICES THAT TEND TO OVER COMPACT THE PREVIOUS LAYER OF MATERIAL. SUCH AERATION WILL BE CONSIDERED AS SUBSIDIARY TO THIS ITEM AND WILL NOT BE PAID FOR DIRECTLY.

SHALE WILL NOT BE CONSIDERED AS SUITABLE MATERIAL.

ITEM 160:
THE TOPSOIL REQUIRED FOR THIS ITEM SHALL BE SALVAGED FROM THE RIGHT OF WAY ON THIS PROJECT AS DIRECTED BY THE ENGINEER AND SHALL BE FERTILE LOAM OR CLAY FROM NOT MORE THAN 0.6 METER BELOW NATURAL GROUND.

THE CONTRACTOR WILL BE REQUIRED, WHERE POSSIBLE, TO ARRANGE THE SEQUENCE OF HIS OPERATIONS IN SUCH A MANNER THAT TOPSOIL WILL BE SALVAGED FROM ONE LOCATION AND PLACED DIRECTLY ON NEARBY SLOPE AREAS TO RECEIVE THIS ITEM. STOCKPILING OF TOPSOIL AND GRASS SOD SHALL BE KEPT TO A MINIMUM AND SHALL BE AS APPROVED BY THE ENGINEER.

ITEM 162:
SODDING AND FERTILIZER SHALL BE PLACED ON ALL UNPAVED AREAS WITHIN THE RIGHT OF WAY.

THE CONTRACTOR WILL BE REQUIRED TO ARRANGE HIS SODDING OPERATION AFTER THE COMPLETION OF EACH CONSTRUCTION STAGE DEPENDANT UPON THE PLANTING DATE REQUIREMENTS STIPULATED BY THIS ITEM. NO ADDITIONAL COMPENSATION WILL BE GRANTED TO THE CONTRACTOR FOR THE ADDITIONAL MOVE-INS.

SPECIFICATION DATA
08/21 SHEET D

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 260:
THE STANDARD PLATFORM TRUCK SCALES WILL BE REQUIRED FOR THIS PROJECT AND SHALL BE LOCATED AT A POINT APPROVED BY THE ENGINEER. CERTIFIED PUBLIC SCALES, WHEN APPROVED BY THE ENGINEER, MAY BE USED, PROVIDED THEY CONFORM TO THE REQUIREMENTS SET FORTH IN ARTICLE 520.3 (1).

THE LIMITS OF PAY ON THIS ITEM SHALL BE FROM A POINT 0.6 METER FROM THE BACK OF CURB ON CURBED SECTIONS.

TYPE A, B OR C LIME SHALL BE PLACED BY THE "SLURRY PLACING" METHOD.

ITEMS 260 AND 262:
THE FINISHED GRADE OF "LIME TREAT SUBGR (DENS CONT)" SHALL BE TO THE SECTION OF THE BOTTOM OF THE ASPHALTIC CONCRETE BASE AS SHOWN ON THE PLANS, OR LOWER. PATCHING OF CURED BASE SECTIONS WILL NOT BE ALLOWED, BUT SHALL BE FILLED WITH EXTRA DEPTH ASPHALTIC CONCRETE BASE OR BE REWORKED COMPLETELY BY SCARIFYING, ADDING MATERIAL, APPLYING LIME SLURRY AND RECOMPACTING. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE WORK REQUIRED TO REWORK A SECTION OF SUBGRADE.

ITEM 360:
THE DOWEL SUPPORT ASSEMBLIES USED IN CONCRETE PAVEMENT SHALL BE CONSTRUCTED USING NO. 1/0 (10 MM DIAMETER) WIRE IN THE MAIN VERTICAL MEMBERS. DOWELS SHALL BE RIGIDLY SUPPORTED IN PARALLEL POSITIONS AND SHALL BE WELDED ON ONE END TO THE SUPPORT FRAME. THE WELD ATTACHMENT SHALL BE MADE ALTERNATELY ON OPPOSITE ENDS OF SUCCESSIVE DOWELS. THE SUPPORT ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

WHEN USED, THREADED CONNECTOR TIEBARS SHALL BE CHAIRED AND/OR TIED TO THE PAVEMENT REINFORCING STEEL.

ALL CURBS SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE CONCRETE PAVEMENT.

IF CONTINUOUS MONOLITHIC CURB HAS TO BE TEMPORARILY OMITTED FOR ANY REASON, THE CONTRACTOR WILL BE REQUIRED TO DOWEL ON PROPOSED CURBS AS DETAILED IN THE PLANS. AN APPROVED EPOXY RESIN SHALL BE APPLIED TO THE PAVEMENT TO RECEIVE THE CURB AS DIRECTED BY THE ENGINEER. THIS WORK

SPECIFICATION DATA
08/21 SHEET E

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 360, CONT'D
AND MATERIALS SHALL BE SUBSIDIARY TO THIS ITEM AND WILL NOT BE PAID DIRECTLY.

CONCRETE SHALL BE FURNISHED FROM A STATIONARY MIXER (CENTRAL MIX) (PAYING MIXER (TRUCK MOUNTED) MEETING THE REQUIREMENTS OF ARTICLE 360.3 (4).

CONCRETE AGGREGATES SHALL BE STOCKPILED AT THE PLANT SITE.

THE CURING MACHINE SHALL BE PROVIDED WITH RUBBER TIRES, OR ANOTHER ARRANGEMENT, APPROVED BY THE ENGINEER, SO THAT THE MACHINE WILL BRIDGE OVER OR SPAN THE PAVEMENT AND MONOLITHIC CURB OPERATIONS, IN A MANNER SATISFACTORY TO THE ENGINEER.

CURB TRANSITIONS WILL BE PAID FOR AS MONO CURB.

THESE PLANS REQUIRE SAWED JOINTS. CONSTRUCTION, SAWED AND CONTRACT JOINTS SHALL BE PLACED IN ACCORDANCE WITH THE PAVEMENT DETAIL SHEET AS DIRECTED BY THE ENGINEER. JOINT LOCATIONS, OTHER THAN AS SHOWN ON THE PLANS, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR WILL BE REQUIRED TO SAW TRANSVERSE AND CONSTRUCTION ACROSS PAVEMENT AND CURBS.

THE CONTRACTOR WILL BE ALLOWED TO USE A DOWEL INSERTOR OF A DESIGN HAS PROVEN EFFECTIVE AND PERFORMS IN A MANNER ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR, IF HE ELECTS TO USE SUCH A DOWEL INSERTOR, WILL PROVIDE A DEVICE TO MEASURE THE DEPTH OF THE INSERTED DOWEL IN PLACE.

PAVEMENT LEAVEOUTS WILL BE REQUIRED ON THIS PROJECT AS NECESSARY TO PROVIDE FOR TRAFFIC AT DRIVEWAYS AND SIDE STREETS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF PROVIDING THESE LEAVEOUTS INCLUDING THE CONSTRUCTION OF A SUITABLE CROSSOVER CONNECTION AT EACH SITE, WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

IF A TRAVELING FORM PAVER IS USED, IT SHALL BE EQUIPPED WITH AN ELECTRONICALLY OPERATED HORIZONTAL CONTROL DEVICE.

TIEBARS USED IN LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN 380 MM OF TRANSVERSE JOINTS.

ANY AREA IN EXCESS OF THREE SQUARE METERS WITH GROOVES LESS THAN 3 MM DEEP WILL BE SAW GROOVED BY THE CONTRACTOR AT HIS OWN EXPENSE.

SPECIFICATION DATA
08/21 SHEET F