



2024 Standard Specification Training Seminar



2024 Spec Book Changes Item 100

Building the Texas Transportation System

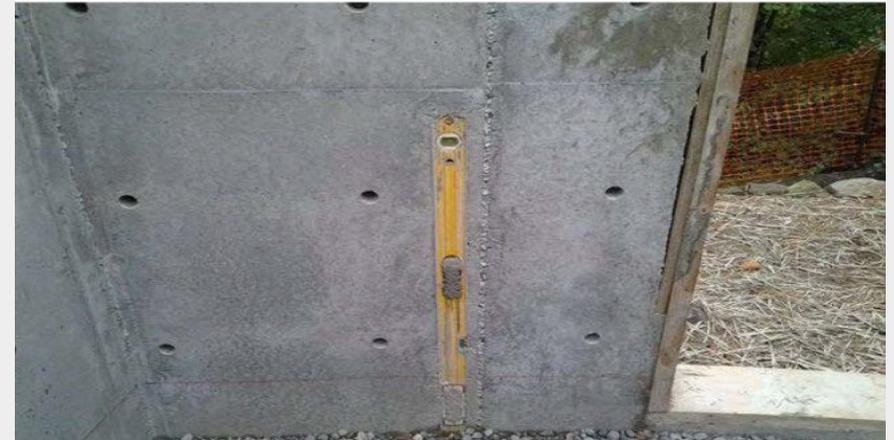


Item 100s Changes

- 100 – Prep ROW
 - Tree protection standard bid item
 - Tree trim and prune work per Item 752
- 103 – Disposal of Wells
 - No significant changes
- 104 - Removing Concrete
 - No significant changes
- 105 – Remove Base and Asphalt
 - No significant changes to spec language
 - Created a range of pay items by SY.



Only the chosen one can remove the level from the stone





Item 100s Changes

- 106 – Obliterating Roadway
 - Create ability to pay by SY
 - Adjectives revised
 - “uniform” replaced with “scarify and blend”
- 110 – Excavation
 - No significant changes

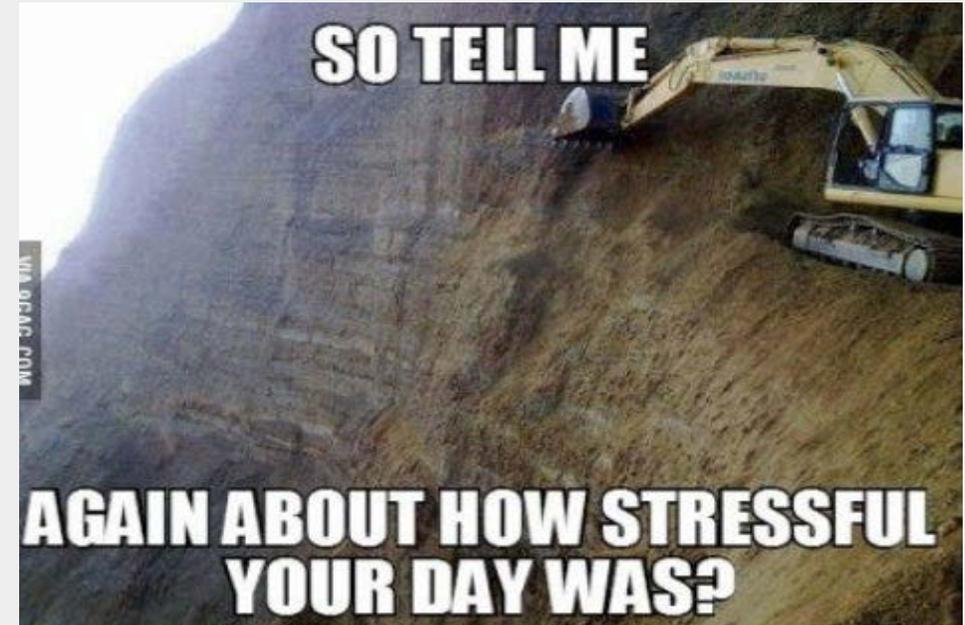


Komatsu P&H L-2350 Loader





- 112 – Subgrade Widen
 - Create ability to pay by SY
 - Adjectives revised
 - “smooth vertical” replaced with “vertically uniform”
 - **General Notes and Plan Preparation**
 - Include a token quantity of embankment paid by the VEH in all jobs with Item 112 per Item 112.3.3
 - If run out of material or have an unbalanced phasing approach the VEH will pay contractor to bring in more material



- 3.3. **Widening.** Remove material in cut sections and move to fill sections within the project. Use material from cut sections for embankment. Place the material in fill sections in successive lifts to the line and grades shown on the typical sections. Provide additional embankment in accordance with the applicable bid item or Article 9.7., “Payment for Extra Work and Force Account Method,” if all excavation has been performed and additional embankment is required to complete the work.



■ 132 – Embankment

- Did not add intelligent compaction to standard
- **Payment required for pavement that remains**

When rework, removal, or scarification is required for existing pavement structure that will remain, it will be measured and paid for as shown on the plans for the appropriate type.

– **Use of random locations for density testing**

- More random info during 200s presentation 😊

– Proof rolling requires payment, as it did in 2014

- 2014 **When proof rolling is directed, it will be paid for in accordance with Item 216, "Proof Rolling."**
- 2024 **When proof rolling is directed, it will be paid for in accordance with Item 216.**

– **General Notes and Plan Preparation**

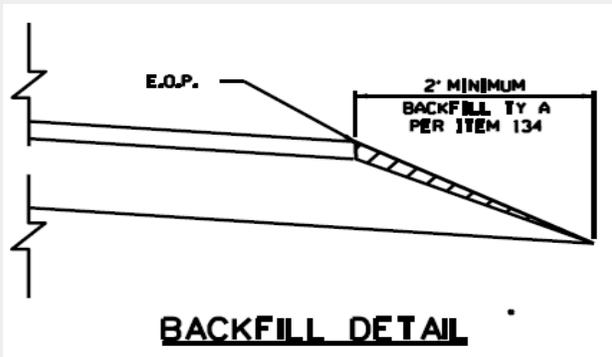
- **Recommend include a standard Type C material definition in the district's general notes.**
- **AUS maintains a consistent definition of Type C material for when a select fill is required.**
- **Use Type C1, C2, etc. for non typical materials.**
- **Include scarify or rework Item 251 for pavement that remains**
- **Include a token quantity of proof rolling in the estimate**





Item 100s Changes

- 134 – Backfill Pavement Edge
 - Create ability to pay by CY or LF
 - Default emulsion type to Item 300
 - Table 19 in Item 300.4
 - **General Notes and Plan Preparation**
 - Recommend include in all overlay projects
 - Recommend include a default emulsion rate in the district’s master general notes.
 - AUS uses 0.12 GAL/SY
 - Include a default Type A material definition in the district’s master general notes.
 - RAP, flexible base, reclaimed base, etc.



**Table 19
Typical Material Use**

Material Application	Typically Used Materials
Hot-mixed, hot-laid asphalt mixtures	PG binders, A-R binder Types I and II
Surface treatment	PG 58-22, AC-15P, AC-20XP, AC-10-2TR, AC-20-5TR, HFRS-2, MS-2, CRS-2, CRS-2TR, CMS-2P, HFRS-2P, CRS-2P, CHFRS-2P, A-R binder Types II and III
Surface treatment (cool weather)	AC12-5TR, RC-250, MC-800, MC-3000, CMS-2P
Precoating	PG 58-22, PG 64-22, SS-1, SS-1H, CSS-1, CSS-1H
Tack coat	PG binders, SS-1H, CSS-1H, EAP&T, TRAIL, EBL
Fog seal	SS-1, SS-1H, CSS-1, CSS-1H, CSS-1H 50/50, CSS-1H 40/60, CSS-1H 30/70, CMS-1P
Hot-mixed, cold-laid asphalt mixtures	AC-0.6, AC-1.5, PG 58-22, CMS-2
Patching mix	MC-800, SCM I
Recycling	AC-0.6, AC-1.5, recycling agent, ARA-1, ARA-1P
Crack sealing	Polymer-modified AE crack sealant, asphalt-rubber crack sealers (Class A, Class B)
Microsurfacing	CSS-1P
Prime	MC-30, AE-P, AE-P 50/50, AE-P 40/60, AE-P 30/70, EAP&T, PCE
Curing membrane	SS-1, SS-1H, CSS-1, CSS-1H, PCE
Erosion control	SS-1, SS-1H, CSS-1, CSS-1H, PCE



Item 100s Changes

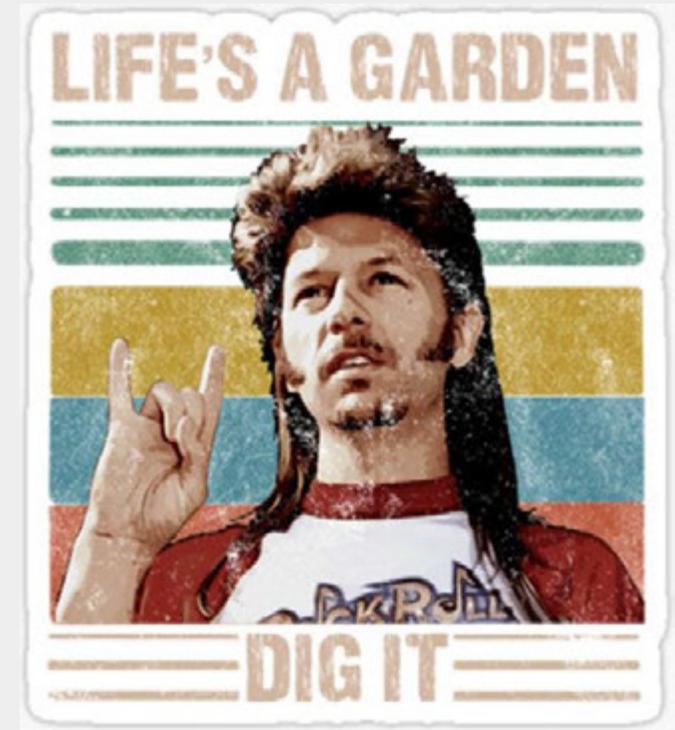
- 150 – Blade
 - No significant changes
- 152 – Road Grader
 - No significant changes
- 154 – Scraper
 - No significant changes
- 156 – Bulldozer
 - No significant changes
- 158 – Special Excavation
 - No significant changes



Item 100s Changes

- 160 – Topsoil
 - Adjectives revised
 - “cultivate” replaced with “scarify”
 - **General Notes and Plan Preparation**
 - Testing beyond PH should be requested by district’s general notes
 - Some districts like to test for percent of organics

- 161 – Compost
 - No significant changes





Item 100s Changes

- 162 – Sod
 - Adjectives revised
 - “cultivate” replaced with “scarify”
- 164 – Seed
 - Adjectives revised
 - “cultivate” replaced with “scarify”
 - New seed tables
 - Moving seeding season to Item 3.1
 - Broadcast seed requires 25% increase
 - Added notes regarding substitute when seeds are not available
 - **Table 5 for flower mix included with perm seed mix**



Use Tables 1–5 to determine the appropriate seeding mix and rates as shown on the plans. Include flower seeding mix in accordance with Table 5 with seeding mix shown in Table 1 and Table 2.

**Table 5
Flower Seeding Mix**

District	All Soils Species and Rates (lb. PLS per acre)
1 (Paris), 10 (Tyler), 11 (Lufkin), 12 (Houston), 17 (Bryan), 19 (Atlanta), 20 (Beaumont)	Herbaceous Mimosa (Crockett) 1.5
	Illinois Bundleflower (Sabine) 1.5
	Thickspike Gayfeather (Pineywoods) 1.5
	Purple Prairie Clover (Kaneb) 0.6
	Rio Grande Clammyweed (Zapata) 2.0
2 (Fort Worth), 3 (Wichita Falls), 4 (Amarillo), 5 (Lubbock), 6 (Odessa), 7 (San Angelo), 8 (Abilene), 9 (Waco), 18 (Dallas), 23 (Brownwood), 25 (Childress)	Engelmann Daisy (Eldorado) 1.5
	Awnless Bushsunflower (Plateau) 1.5
	Partridge Pea 1.5
	Illinois Bundleflower (Sabine) 1.5
	Rio Grande Clammyweed (Zapata) 2.0
13 (Yoakum), 14 (Austin), 15 (San Antonio), 16 (Corpus Christi), 21 (Pharr), 22 (Laredo), 24 (El Paso)	Indian Blanket (Fuego) 1.0
	Awnless Bushsunflower (Venado) 0.4
	Prostrate Bundleflower (Balli) 1.5
	Orange Zexmenia (Goliad) 0.4
	Rio Grande Clammyweed (Zapata) 2.0



Item 100s Changes

- 166 – Fertilizer
 - No significant changes
- 168 – Watering
 - 1000 gallons is TGL, not MG





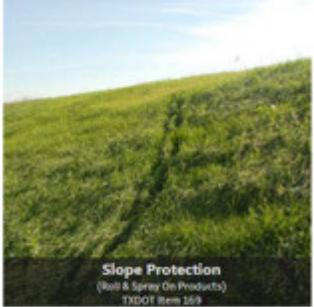
Item 100s Changes

- 169 – Soil Blankets
 - New categories to products list
 - Added Wildlife category
 - Required to mow prior to install

0169-7035	SOIL RET BLKT(CHAN_TEMP_2 PSF_WLDLFE)
0169-7036	SOIL RET BLKT(CHAN_TEMP_4 PSF_WLDLFE)
0169-7037	SOIL RET BLKT(CHAN_PERM_2 PSF_WLDLFE)
0169-7038	SOIL RET BLKT(CHAN_PERM_4 PSF_WLDLFE)
0169-7039	SOIL RET BLKT(CHAN_PERM_6 PSF_WLDLFE)
0169-7040	SOIL RET BLKT(CHAN_PERM_8 PSF_WLDLFE)

Texas A&M Transportation Institute
Interactive Approved Products List

Select Erosion Control Application



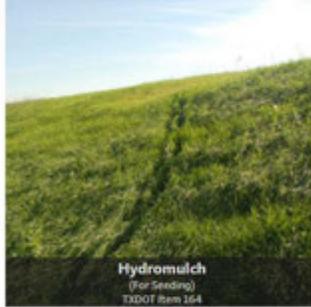
Slope Protection
(Roll & Spray On Products)
TXDOT Item 169

Approved roll (blanket) and spray on products



Channel Protection
(Temporary & Permanent Products)
TXDOT Item 169

Approved temporary and permanent channel products



Hydromulch
(For Seeding)
TXDOT Item 164

Products tested at a 4:1 slope (H/V) and approved for hydroseeding on slopes 4:1 and flatter

- Champions Golf Club, Houston 1st hole, 445 yards, par 4
- Champions Golf Club, Houston 4th hole, 246 yards, par 3
- Champions Golf Club, Houston 5th hole, 499 yards, par 5
- Colonial Country Club, Fort Worth 5th hole, 466 yards, par 4
- Houston Country Club, Houston 5th hole, 413 yards, par 4
- Great Southwest Golf Club, Grand Prairie 3rd hole, 236 yards, par 3
- Municipal Golf Course, Austin 7th hole, 420 yards, par 4
- Preston Trail Golf Club, Dallas 16th hole, 428 yards, par 4
- Woodlake Golf Club, San Antonio 18th hole, 583 yards, par 5

0169-7017	SOIL RET BLKT(SL_MOD_CLAY_SHORT_SPRY)
0169-7018	SOIL RET BLKT(SL_MOD_CLAY_LONG_SPRY)
0169-7019	SOIL RET BLKT(SL_MOD_SAND_SHORT_SPRY)
0169-7020	SOIL RET BLKT(SL_MOD_SAND_LONG_SPRY)
0169-7021	SOIL RET BLKT(SL_STEEP_CLAY_SHORT_SPRY)
0169-7022	SOIL RET BLKT(SL_STEEP_CLAY_LONG_SPRY)
0169-7023	SOIL RET BLKT(SL_STEEP_SAND_SHORT_SPRY)
0169-7024	SOIL RET BLKT(SL_STEEP_SAND_LONG_SPRY)





Item 100s Changes

- 170 – Irrigation System
 - Contractor to provide system design
 - Water consumed paid by department
 - Added a performance period
 - Ends 30 days after plant installation is complete
 - Added operation requirement
 - Created a 2-step payment structure for initial and final payment
 - 95% when installed
 - 5% when perform period complete

Performance Period. Operate and maintain each system for 30 days after plant installation is complete. Repair and maintain in accordance with Section 193.3.6., "Irrigation System Operation and Maintenance." This period will extend until repairs are completed.

Operation. Begin operation of each system after plant installation has begun. Operate the system until work is completed on the project. Inspect the system for proper operation, damage, and leaks every 3 mo. Adjust the irrigation schedule during inspection to provide proper soil moisture. Shut down the system and notify the Department if the system requires repairs.





Item 100s Changes

- 180 – Wildflower Seeding
 - No significant changes
- 192 – Landscape Planting
 - Added 2014 special spec items to 2024
 - Tree Transplant
 - Loose Aggregate
 - Soil Amendment
 - Adjusted payment % for plants
 - 70%, 10%, 10%, 10%

Initial Payment. When the planting and installation of related materials are completed and approved, 70% of the unit price bid for each related plant will be paid.

30-Day Payment. When the first 30 days of the plant maintenance (in accordance with Section 192.3.17., Maintenance.) are completed and approved, an additional 10% of the unit price bid for each related plant will be paid, but if the maintenance is not completed and approved, this portion of the payment will be forfeited.

60-Day Payment. When the second 30 days of the plant maintenance are completed and approved, an additional 10% of the unit price bid for each related plant will be paid, but if the maintenance is not completed and approved, this portion of the payment will be forfeited.

Final Payment. After the final inspection and acceptance of the project or the completion of the 90-day maintenance, whichever occurs later, an additional 10% of the unit price bid for all plants will be paid, but if the maintenance is not completed and approved, this portion of the payment will be forfeited.

PLANTS EVEN YOU CAN'T KILL

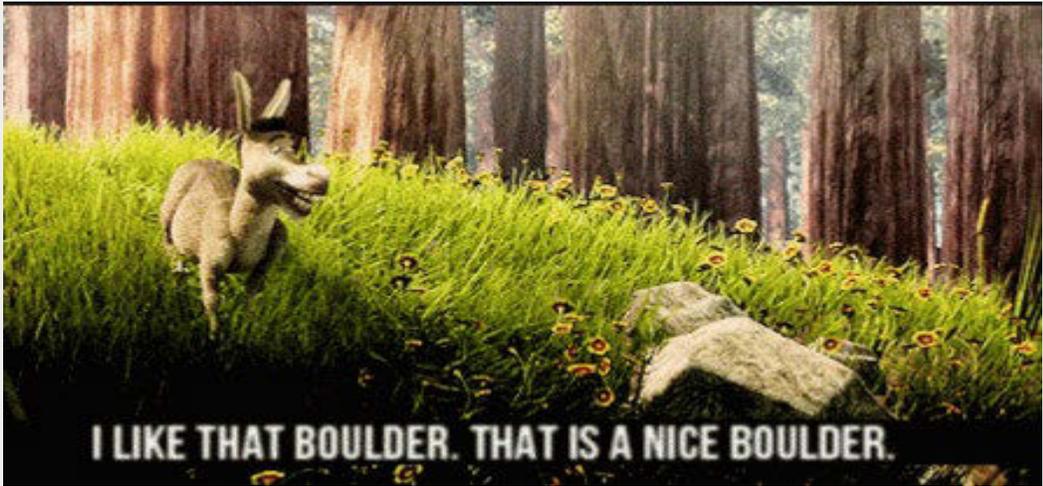




Item 100s Changes

- 193 – Landscape Establishment
 - Water consumed paid by department

- 194 – Roadside Amenity
 - New for trash cans, benches, boulders, etc.
 - Avoid creation of special specification
 - **General Notes and Plan Preparation**
 - **Generic item requires notes and plans to detail the amenity.**



0194-7001	ROADSIDE AMENITY (INTERPRETIVE SIGN)	EA
0194-7002	ROADSIDE AMENITY (TRAIL HEAD SIGN)	EA
0194-7003	ROADSIDE AMENITY (PICNIC TABLE)	EA
0194-7004	ROADSIDE AMENITY (TRASH/RECYCLE BIN)	EA
0194-7005	ROADSIDE AMENITY (BENCH)	EA
0194-7006	ROADSIDE AMENITY (ADA PARKING SIGN)	EA
0194-7007	ROADSIDE AMENITY (WHEEL STOP)	EA
0194-7008	ROADSIDE AMENITY (WHEEL STOP REMOV&RESET)	EA
0194-7009	ROADSIDE AMENITY (GATE)	EA
0194-7010	ROADSIDE AMENITY (BOULDER)	EA
0194-7011	ROADSIDE AMENITY	EA
0194-7012	ROADSIDE AMENITY (TYPE 1)	EA
0194-7013	ROADSIDE AMENITY (TYPE 2)	EA