

TYPE OF WORK

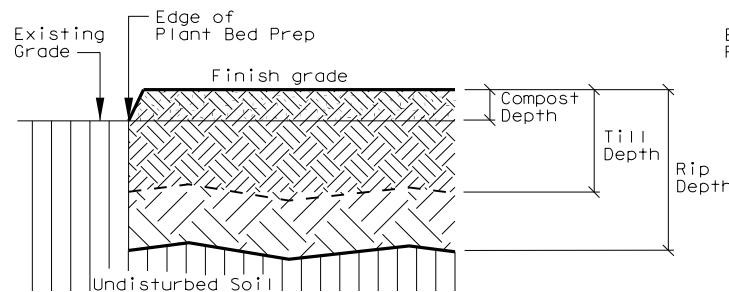
ITEMS AND REQUIREMENTS FOR EACH TYPE OF WORK

192-6063 PLANT BED PREP (TYPE I) SY	192-6064 PLANT BED PREP (TYPE II) SY	192-6065 PLANT BED PREP (TYPE III) SY	192-6066 PLANT BED PREP (TYPE IV) SY		
✓	✓	✓		161-6012 GENERAL USE COMPOST CY	APPLICATION RATE Item 161.2.3. General Use Compost. Apply 2 in. uniform layer over bed preparation area. Item 161.2. Materials. Compost producer's STA certification must be dated to meet STA requirements (certification must be within 30 or 90 days). Lab analysis performed by an STA-certified lab must be dated within 30 days before delivery of the compost.
✓	✓	✓	✓	1006-6001 LANDSCAPE SOIL AMENDMENT (TYPE I) SY	APPLICATION RATE Apply 0.30 lbs/SY. Each application is paid for separately. See timeline for multiple applications. Use a non-chemical fertilizer with the following requirements: (1) Is OMRI Listed or certified by Washington State Department of Agriculture meeting USDA National Organic Program Rules, provide current certification. (2) Is registered with Texas State Chemist as a commercial fertilizer. (3) Meets USEPA guidelines for unrestricted use. (4) Derived from the following biological source: processed poultry manure. (5) Contains 3.0% nitrogen and 2.2% of nitrogen is water insoluble, 4% phosphate, 3% soluble potash, 10% calcium. (6) Use the following product or an approved equal: Plant Vigor 3-4-3 Plus 10% Calcium manufactured by Natural Resources Group, Inc., Tomball, Texas 800-279-9567.
✓	✓	✓	✓	1006-6002 LANDSCAPE SOIL AMENDMENT (TYPE II) SY	APPLICATION RATE Apply 0.25 lbs/SY. Humate containing 2.25% iron in the raw material and greater than 45% humic acid, dextrose 2.5% to 5% on weight basis. Pelletized humate without added binders and pass #16 mesh. Use the following product or an approved equal: San Jacinto Humate, San Jacinto Environmental Supplies, 713-957-0909.
	✓	✓	✓	1006-6003 LANDSCAPE SOIL AMENDMENT (TYPE III) SY	See PLANTING AND ESTABLISHMENT SHEET 5 of 8 For Requirements
			✓	1006-6004 LANDSCAPE SOIL AMENDMENT (TYPE IV) SY	See PLANTING AND ESTABLISHMENT SHEET 5 of 8 For Requirements
✓	✓	✓	✓	1006-6005 LANDSCAPE SOIL AMENDMENT (TYPE V) SY	APPLICATION RATE Apply 0.30 lbs/SY. Each application is paid for separately. See timeline for multiple applications. Use a non-chemical fertilizer with the following requirements: (1) Is OMRI Listed or certified by Washington State Department of Agriculture meeting USDA National Organic Program Rules, provide current certification. (2) Is registered with Texas State Chemist as a commercial fertilizer. (3) Meets USEPA guidelines for unrestricted use. (4) Derived from the following biological source: worm castings. (5) Contains 0.02% humic acid derived from humate, 1.0% nitrogen and 0.9% of nitrogen is water insoluble, 0.5% phosphate, 0.2% soluble potash, 1.0% calcium, 0.02% iron. (6) Use the following product or an approved equal: Black Castings manufactured by Vermi-Technology Unlimited available from Earth's Outlet 866-504-1139.
✓				RIPPING/TRENCHING Incidental to Item 192 Plant Bed Preparation.	RIP/TRENCH DEPTH Rip/Trench to a depth of 18 inches (+/- 2"). Distance between each rip/trench is 24 inches.
✓	✓	✓		ROTOR TILLING Incidental to Item 192 Plant Bed Preparation.	ROTOR TILL DEPTH After application of compost and amendments and rip/trench (when required), rotor till to a depth of 8 inches (+/- 2").
		✓	✓	HERBICIDE and MOWING Incidental to Item 192 Plant Bed Preparation. Scalp mow 15 days after final herbicide treatment.	APPLICATION RATE Prior to all other work, apply two applications of an approved herbicide with 15 days between the applications. Apply herbicide during weather conditions and at a rate per manufacturer's recommendations.

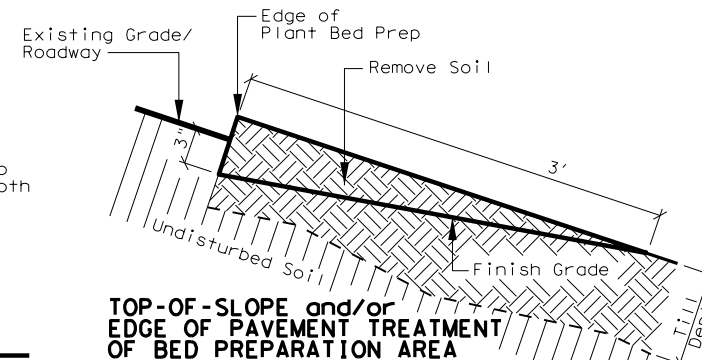
Reference Item 161, 192 of the Texas Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges 2014 for specifications, dimensions, volumes and measurements that are not shown.
Reference Special Specification Item 1006.

GENERAL BED PREPARATION NOTES:

- Reference Item 192 of the Texas Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges 2014 for specifications, dimensions, volumes and measurements not shown.
- Reference Item 192.3 mark plant locations and bed outlines.
- Locate and stake all underground conduits and utilities associated with but not limited to: CTMS, CTMS power supply, lighting, signal wires and detectors, gas, electric, telephone, fiber optics, etc.
- Locate and stake existing ground boxes, inlets, culverts, manholes, etc. within the project area with a 4' wooden stake painted orange. Maintain the stakes in place for duration of the project. Remove stakes when directed by engineer.
- Repair any damage within right of way caused by contractor at no additional expense to the Department.
- Provide a 1000 SF "mock up" of soil amendment, general use compost, and bed preparation complete and in place within an approved area for approval by engineer.
- Pick-up litter prior to scalp mow and bed preparation.
- All concrete, steel, trash, and other debris uncovered during bed preparation work which the engineer determines as detrimental to the project will become the responsibility of the contractor and disposed of in an approved manner. Debris removal will occur daily and will be incidental to bed preparation and will not be paid for separately.
- Reference Item 5.10 Inspection of the Texas Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges 2014. At any time during all phases of the contract, any materials or work performed not in accordance with the plans and specifications will be replaced and/or reworked until in compliance.
- Any adjustments due to the failure to comply with plans and specifications shown will be at contractor's expense.
- Clean and clear bed prep areas and nearby inlets of existing tall vegetation and any piles or layers of dead grass and weeds caused by drought or mowing operations by others.



PLANTING BED PREPARATION SECTION
SEE ITEMS AND REQUIREMENTS THIS SHEET FOR DIMENSIONS, RATES, AND SPECIFICATIONS
(See Top-of-Slope detail this sheet when applicable)



TOP-OF-SLOPE and/or EDGE OF PAVEMENT TREATMENT OF BED PREPARATION AREA

Install at all areas with the following conditions:
Within the bed preparation areas at top-of-slope (adjacent to shoulder sections and areas with slotted barrier/curb) and/or at edge of roadway, remove filled or unfilled (TYPE IV) soil as shown. Evenly distribute removed soil in a thin layer over adjacent existing tilled or unfilled (TYPE IV) soil being careful not to create a mound. This work is incidental to Item 192 Plant Bed Prep Preparation.



PLANTING AND ESTABLISHMENT
SHEET 4 of 8

Details not to scale BED PREPARATION

FILE:	FED DIST	STATE	PROJECT NUMBER	SHEET
	6	TEXAS		
REVISIONS:	DIST	COUNTY	CONTROL	SECT
FEB 2015 for 2014 specs	12			
				JOB
				HIGHWAY