

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035-1	DUPAGE		
			CONTRACT 60P42	
FED.ROAD.DIST.NO.		ILLINOIS	FED. AID PROJECT	

INSTRUCTION FOR INSTALLING AND REMOVING A SILT FENCE

THE CONTRACTOR SHALL FURNISH AND INSTALL AND LINEAR FEET IN PLACE WITH ALL MATERIAL, EQUIPMENT AND LABOR FOR THE INSTALLATION OF A GEOTECHNICAL SILT FENCE FOR TEMPORARY EROSION CONTROL.

GEOTECHNICAL FABRIC FABRIC FOR SILT FENCE SHALL CONSIST OF WOVEN OR NONWOVEN FILAMENTS OF POLYPROPYLENE, POLYESTER OR POLYETHYLENE. NONWOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT-BONDED, RESIN-BONDED OR COMBINATION THEREOF. THE FILAMENTS IN THE SILT FENCE FABRIC MUST BE DIMENSIONALLY STABLE (I.E., TO EACH OTHER), RESISTANT TO DELAMINATION, AND MUST BE FREE FROM ANY CHEMICAL TREATMENT OR COATING THAT MIGHT SIGNIFICANTLY REDUCE POROSITY AND PERMEABILITY. BOTH FABRICS SHALL BE RESISTANT TO ULTRAVIOLET RADIATION. THE FABRIC SHALL COMPLY WITH THE FOLLOWING PHYSICAL PROPERTIES:

PHYSICAL PROPERTIES	SILT FILTER FENCE FABRIC
GRAB TENSILE STRENGTH (LBS.) ASTM D 4632	200 (MIN) †
GRAB ELONGATION @ BREAK (%) ASTM D 4632	12 (MIN) †
BURST STRENGTH (PSI) - ASTM D 751	250 (MIN) †
TRAPEZOIDAL TEAR STRENGTH (LBS.) ASTM D 4533	-----
WIDTH (FT.)	3.5 (MIN)
WEIGHT (OZ/SQ) - ASTM D 3776	4.0 (MIN)
EQUIVALENT OPENING SIZE (EOS) SIEVE NO. CORRESPONDING CS-02215	30 (MIN)(NON-WOVEN) † 50 (MIN)(WOVEN) †

- † FOR WOVEN FABRIC, TEST RESULTS SHALL BE REFERENCED TO ORIENTATION WITH WARP OR WEAVE, AND WHICHEVER CASE MAY BE BOTH WOVEN AND NONWOVEN FABRIC SHALL BE TESTED WET.
- ‡ TEST RESULTS MAY BE OBTAINED BY MANUFACTURER'S CERTIFICATION.

STAKES MAY BE EITHER WOODEN OR METAL POSTS.

THE FILTER BLANKET SHALL BE DELIVERED TO THE JOBSITE IN SUCH A MANNER AS TO FACILITATE HANDLING AND INCORPORATION INTO THE WORK WITHOUT DAMAGE. IN NO CASE SHALL THE FABRIC BE STORED OR EXPOSED TO DIRECT SUNLIGHT THAT MIGHT SIGNIFICANTLY DIMINISH ITS STRENGTH OR TOUGHNESS PRIOR TO ITS INTENDED USE AS A SILT FENCE. THE FABRIC SHALL BE RESISTANT TO ULTRAVIOLET RADIATION FOR THE DURATION OF THE CONSTRUCTION PROJECT.

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INSTRUCTION FOR INSTALLING AND REMOVING A SILT FENCE

EXISTING WOODEN OR METAL POSTS SPACED AT ABOUT 1.5M (5FT.) INTERVALS MAY BE UTILIZED TO SUPPORT THE FILTER FABRIC. IN NEW CONSTRUCTION WHERE THERE ARE NO EXISTING POSTS AVAILABLE FOR SUPPORT, 1.8 M (6 FT.) LENGTHS OF TREATED 50 MM X 100 MM (2 INCH X 4 INCH) TIMBER OR GALVANIZED METAL POSTS SPACED AT ABOUT 1.5 M (5 FT.) SHALL BE INSTALLED. THE TIMBER OR METAL POSTS SHALL BE SET IN PREVIOUSLY DUG HOLES AND BACKFILLED TO FORM A STABLE SUPPORT FOR THE FABRIC, OR MAY BE DRIVEN PROVIDED THEY ARE PROTECTED BY A SUITABLE DRIVING CAP AND NO DAMAGE IS DONE TO ANY PORTION OF THE POST. THE POSTS SHALL BE SET PLUMB TO THE REQUIRED DEPTH AND ALIGNMENT WITH ADEQUATE MATERIAL STABILITY. A SMALL TRENCH OF ABOUT 150 MM (6 INCH) WIDTH AND 150 MM (6 INCH) DEPTH SHALL THEN BE EXCAVATED ON THE UPSTREAM SIDE OF THE SILT FENCE TO BURY AND ANCHOR THE LOWER PORTION ON THE FABRIC. THE FABRIC SHALL FIRST BE ATTACHED TO THE POSTS BY AN APPLICABLE MEANS. METAL STAPLES OR NAILS CAN BE USED TO ATTACH THE FABRIC TO WOODEN POSTS WITH THE MINIMUM WIDTH OF THE FABRIC OF 1.1 M (3 FT.), ABOUT 300 MM (12 INCHES) SHALL BE BURIED IN THE TRENCH AND THEN BACKFILLED WITH NATURAL MATERIAL, TAMPING THE BACKFILL TO PROVIDE GOOD ANCHORAGE AND PREVENT SURFACE WATER RUNOFF FROM UNDERMINING THE FENCE.

THE SILT FILTER FENCE SHALL BE SATISFACTORILY MAINTAINED SO AS TO KEEP FUNCTIONING DURING THE LIFE OF THE PROJECT. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND CLEANING THE FABRIC OF TRAPPED SEDIMENT.

SILT FENCE WILL BE MEASURED IN LINEAR FEET OF FENCE IN PLACE.

THE WORK INCLUDES ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED MAINTENANCE OF THE FENCE, REMOVAL OF THE FENCE WHEN NO LONGER NEEDED, AND RESTORATION OF THE AREA.

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INSTRUCTION FOR REMOVAL AND REPLACEMENT OF P.C.C. SIDEWALK

THIS ITEM SHALL CONSIST OF THE REMOVAL OF EXISTING AND INSTALLATION OF NEW P.C.C. SIDEWALK OF VARIOUS TYPES AT THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE THE PREPARATION OF 4 INCHES CA-4 SUB-GRADE AND BASE, AND THE PLACEMENT OF A P.C.C. SIDEWALK OF 4 INCHES THICKNESS OR AS SPECIFIED ON THE PLANS, IN ACCORDANCE WITH SECTIONS 423 AND 446 OF THE STANDARD SPECIFICATIONS. CONCRETE SHALL BE IDOT CLASS 51.

SIDEWALK TO BE REMOVED SHALL BE AS INDICATED ON THE PLANS AND MARKED BY THE ENGINEER IN THE FIELD. WHEN THE SIDEWALK IS DAMAGED BY THE CONTRACTOR AND THAT ARE NOT MARKED FOR REMOVAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS ADVISED SIDEWALK REMOVAL AND REPLACEMENT IS INCLUDED IN THE APPROPRIATE UNIT PRICING FOR SWITCH GEAR VAULTS, SIDE WALK SPLICE BOXES, MANHOLES TRENCHES AND HANDHOLES.

P.C.C. SIDEWALK REMOVAL AND REPLACEMENT WILL BE MEASURED FOR PAYMENT IN PLACE, AND THE AREA COMPUTED IN SQUARE FEET. THE SIDEWALK IS 5 FEET WIDE BY 4 INCHES THICK WITH 5 INCHES OF CA-4 COMPACTED BACKFILL UNDER THE SIDEWALK. SIDEWALK INSTALLATION SHALL BE DONE FROM APRIL 15 TO NOVEMBER 15. ALL SIDEWALKS REMOVED AND/OR NOT COMPLETED BEFORE NOVEMBER 15 ARE TO BE TEMPORARILY PATCHED FOR WINTER SERVICE AND MAINTAINED BY THE CONTRACTOR. MEASUREMENT SHALL BE CONSIDERED FULL COMPENSATION FOR SAW CUTTING, EXCAVATING, STEEL PLATING, FLASHING SIGNBOARDS, REMOVAL AND DISPOSAL OF EXCAVATED MATERIALS, REMOVAL AND INSTALLATION OF TRENCH BACKFILL TO PREPARE SIDEWALK TO MATCH EXISTING SIDEWALK, PAVEMENT AND CURB AND GUTTER, CONCRETE PLACING AND FINISHING, 6 INCHES OF BLACK DIRT AND SOD, PEDESTRIAN TRAFFIC CONTROL, PLACING OF TEMPORARY COLD PATCH AND/OR CA-4 FOR WINTER USE OF STEEL PLATES ACROSS DRIVEWAYS, ARROW BOARDS, 7 COATS OF CURINGSALING COMPOUND, TRAFFIC CONTROL, LINE AND GRADE, PRESSURE WASHING OF ADJACENT SIDEWALKS TO REMOVE GRASS, STAINS OR OTHER MATERIALS NECESSARY TO COMPLETE THIS ITEM TO THE SATISFACTION OF THE ENGINEER. ALL SIDEWALKS INSTALLED SHALL BE USABLE AS INTENDED. ALL WANDALISM OR DAMAGE OF ANY KIND SHALL BE CAUSE FOR REPLACEMENT AT CONTRACTOR'S COST.

SIDEWALK THICKNESS INCREASES TO 6 INCHES WHEN IT IS PART OF A RESIDENTIAL DRIVEWAY AND 9 INCHES THICK WHEN IT IS PART OF A COMMERCIAL DRIVEWAY.

THE CONTRACTOR SHALL BE PAID FOR ALL SIDEWALK REPLACEMENT SHOWN ON THE DRAWINGS AND OR DIRECTED BY THE ENGINEER. THE ALL OTHER SIDEWALKS DAMAGED OR REMOVED BY THE CONTRACTOR IS INCIDENTAL TO THE CONTRACT.

ALL SIDEWALKS UNDERMINED OR DAMAGED OR MADE UNUSABLE OR CRACKED, IN ANY WAY BY THE CONSTRUCTION ACTIVITY SHALL BE REMOVED IN THE ENTIRETY AND INSTALLED NEW BY THE CONTRACTOR AT NO COST TO THE OWNER.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR P.C.C. SIDEWALK REMOVAL AND REPLACEMENT, OF THE THICKNESS SPECIFIED, WHICH PRICE SHALL INCLUDE ALL REQUIRED EXPANSION JOINTS, SPECIAL TEXTURING, VARIABLE HEIGHT EDGE TREATMENTS AT SIDEWALK RAMPS, DISPOSAL AND SUB-GRADE PREPARATION, FINISHING, PROTECTION OF THE WORK, ALL MATERIALS, LABOR, EQUIPMENT AND APPURTENANCES REQUIRED FOR A COMPLETE ITEM.

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RESTORATION OF WORK AREA AND ADJACENT AREA

THE CONTRACTOR IS ADVISED THE CUSTOMER MUST BE SATISFIED WITH ALL ASPECTS OF THE RESTORATION. THE CONTRACTOR SHALL START ALL AREAS THAT HAVE BEEN DISRUPTED DUG OR COMPACTED OR OTHER WISE USED BY THE CONTRACTOR'S ACTIVITY. ALL RESTORATION SHALL BEGIN WITHIN THREE WEEKS AFTER THE INITIAL ENTRY ONTO THE CUSTOMER'S PROPERTY. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO FINISH EACH PARCEL OF PROPERTY IN AN ORDERLY AND CONTINUOUS EFFORT TO THE FINISH. LARGE LAPSES OF TIME FROM STARTING TO FINISH ARE NOT ACCEPTABLE. THE CONTRACTOR SHALL BE REQUESTED TO INCREASE THE WORK FORCE AT NO COST TO SPEED UP THE RESTORATION PROCESS WHEN THE RESTORATION PROCESS TAKES LONGER THAN 6 WEEKS AT ANY LOCATION.

THE WORK AREA SHALL BE KEPT CLEAN AND GOOD HOUSEKEEPING IS THE RULE OF THE DAY. THE STORING STOCK PILING OR LEAVING MATERIALS IN THE WORK AREA OVER NIGHT IS NOT ACCEPTABLE. THE EQUIPMENT SHALL BE RETURNED TO THE STAGING AREAS AT THE END OF EACH DAY. ALL PERSONAL VEHICLES SHALL NOT BE PARKED ON ANY OF THE CITY OF NAPERVILLE STREETS.

THE LANDSCAPING PERIOD IS USUALLY APRIL 1 TO NOVEMBER 1. THE CONTRACTOR SHALL FINISH ALL LANDSCAPING STARTED IN THE WORK YEAR BY NOVEMBER 15 OF THE YEAR STARTED OR SOONER.

THE CONTRACTOR SHALL INSTALL ONLY SALT TOLERANT SOD AND 4 INCHES OF BLACK DIRT IN GREEN AREAS, AND GRASS AREAS OF ALL TYPES, AND/OR DIRT AREAS THAT HAVE BEEN DUG, EXCAVATED, DISRUPTED OR DAMAGED OR WORN BY USE. ALL LANDSCAPING SHALL BE FURNISHED, INSTALLED, ROLLED, STAKED, SUPPLIED AND APPLIED WITH SUFFICIENT QUANTITIES OF WATER AND FERTILIZER TO PROMOTE GROWTH.

THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS SUPPLIED AND INSTALLED BY THE CONTRACTOR FOR ONE YEAR FROM THE COMPLETION DATE OF THE CONTRACT. ALL MATERIALS INSTALLED SHALL BE REPLACED WITH NEW MATERIAL IN THE ENTIRETY IF AFTER ONE YEAR THE MATERIALS FAIL.

THE CONTRACTOR SHALL BE SUPPLIED WITH A TREE SURVEY PERFORMED BY THE CONTRACTOR'S ARBORIST AND WILL THE BENCHMARK USED TO RESTORE THE MINIMUM AMOUNT OF LANDSCAPING. THE CONTRACTOR SHALL TAKE A VIDEO OF THE ENTIRE RIGHT-OF-WAY PRIOR TO PERFORMANCE WORK. THIS VIDEO ALSO SHALL BE USED AS A BENCHMARK FOR RESTORATION.

THE CONTRACTOR SHALL PROVIDE A UNIT THAT IS THE TOTAL COST OF ALL LANDSCAPING AND RESTORATION OF THE CITY OF NAPERVILLE'S RIGHTS OF WAYS AND EASEMENTS TO BE DONE AND REQUIRED BUT NOT COVERED UNDER ANOTHER PRICE ITEM AS REQUIRED FOR A COMPLETE THE JOB. THIS UNIT INCLUDES, BUT NOT LIMITED TO, ALL LABOR, TRANSPORTATION, MATERIALS, HAULING, LOADING, UNLOADING, PLACING, INSTALLING, REMOVAL AND DISPOSAL OF ALL MATERIALS OFF-SITE FOR A COMPLETE JOB.

THIS WORK WILL BE PAID FOR AT THE CONTRACT PRICE OF A LUMP SUM AND SHALL INCLUDE ALL LABOR MATERIALS EQUIPMENT TRANSPORTATION AND INCIDENTALS REQUIRED TO PERFORM THE WORK AND MEETS ALL THE GOVERNMENTAL AND CUSTOMER REQUIREMENTS.

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PROJECT TITLE				ROUTE 59 ROAD IMPROVEMENTS			
PROJECT DESCRIPTION				DETAILS AND STANDARDS			
ENGINEER	DRAFTING DATE	MAP #	SCALE				
BCC	5-11-12	4211,4212,4223	N.T.S.				
DESIGN BY	DRAFTED BY	AT&T JOINT AGREEMENT #	PROJECT #				
DL	PSM	N/A	EU-12				
CHECKED BY	APPROVED BY	CAD FILE	SHEET #				
		0060648001D158.DWG	58 OF 63				
Naperville			Department of Public Utilities Electric Division			WORK REQUEST #	
						60468	