

## Division 800 Material Details

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### SECTION 827 GEOTEXTILE

**827.01 Description.** This material consists of geotextile for use in constructing silt fence; reinforced silt fence; inlet sediment control; sediment trap outlet, riser pipe; riprap ditch; perimeter dike/swale; earth dike; temporary slope drain; stilling well; sump pit; stabilized construction entrance; portable sediment tank; geotextile lined channel diversion; dewatering basin; sediment basin outlet structure, corrugated metal; and other soil sediment and erosion control applications.

**827.02 Silt Fence.** The geotextile shall be a minimum of 900 mm wide and shall be a woven fabric consisting of long chain polymeric filaments, or yarns such as polypropylene, polyethylene, polyester, polyamide, or polyvinylidene-chloride, formed into a stable network such that the filaments or yarns retain their relative position to each other. The geotextile shall be inert to commonly encountered chemicals and shall meet the requirements listed in the following table

Property	Test Method	Value (Average Minimum Roll Value)
Grab Tensile Strength	ASTM D 4632	489 N
Grab Tensile Elongation	ASTM D 4632	20%
Mullen Burst Strength	ASTM D 3786	1.4 kPa
Trapezoid Tear Strength	ASTM D 4533	222 N
Slurry Flow Rate	VA DOT, VTM 51	200 mL/sec/m <sup>2</sup>
Weight	ASTM D 3776	0.1 kg/m <sup>2</sup>
Ultraviolet Stability (Strength Retained)	ASTM D 4355 after 500 hours of Xenon-Arc Type Apparatus	70%

**827.03 Reinforced Silt Fence.** The geotextile shall conform to the requirements of Subsection 827.02.

**827.04 Inlet Sediment Control.** The geotextile shall be Mirafi 140N, Linq GTF 130D, Amoco 4545, or an equal approved for use by the Department's Materials and Research Section. Table 827-B illustrates the flow rates of the various fabrics. Any material submitted as an equal must have a flow rate equal to or exceeding the minimum flow rate of those listed in the following table:

Table 827-B			
Geotextile Manufacturer	Geotextile Style	Flow Rate	
		L/sec/m <sup>2</sup>	gal/min/ft <sup>2</sup>
Mirafi	140 N	82	120
	4030 A	99	145
Amoco	4545	102	150
	4535	105	155
Linq	103 EX	95	140
	125 EX	102	150

**827.05 Riser Pipe Assembly for Sediment Trap.** The geotextile shall conform to the requirements of Subsection 827.04.

**827.06 Riprap Ditch.** The geotextile shall be Mirafi 700X or Erosion 1 manufactured by Synthetic Industries, Linq GTF 400E or Poly-Filter X manufactured by Carthage Mills, TerraTex Ep manufactured by WEBTEC, Inc., or an equal approved by the Department's Materials and Research Section.

**827.07 Perimeter Dike/Swale.** The geotextile shall conform to the requirements of Subsection 827.06.

**827.08 Earth Dike.** The geotextile shall conform to the requirements of Subsection 827.06.

**827.09 Temporary Slope Drain.** The geotextile shall conform to the requirements of Subsection 827.06.

**827.10 Stilling Well.** The geotextile shall conform to the requirements of Subsection 827.06.

**827.11 Sump Pit.** The geotextile shall conform to the requirements of Subsection 827.04.

**827.12 Stabilized Construction Entrance.** The geotextile shall be woven or nonwoven and shall consist only of continuous chain polymer filaments or yarns of polyester. The geotextile shall be inert to commonly encountered chemicals and hydrocarbons, be mildew and rot resistant, and shall conform to the properties of the following table:

Table 827-C			
Fabric Properties	Traffic	Traffic	Test Method
	3 Axles	> 3 Axles	
Grab Tensile Strength	890 N	980 N	ASTM D 4632
Elongation at Failure	50%	220%	ASTM D 4632
Mullen Burst Strength	845 N	1.9 kN	ASTM D 3786
Puncture Strength	178 N	556 N	ASTM D 751, Modified
Equivalent Opening Size	180 to 425 $\mu$ m	180 to 425 $\mu$ m	Standard Sieve CW-02215

**827.13 Portable Sediment Tank.** The geotextile shall conform to the requirements of Subsection 827.04.

**827.14 Geotextile Lined Channel Diversion.** The geotextile shall conform to the requirements of Subsection 827.06.

**827.15 Dewatering Basin.** The geotextile shall conform to the requirements of Subsection 827.06.

**827.16 Sediment Basin Outlet Structure, Corrugated Metal.** The geotextile shall conform to the requirements of Subsection 827.04.

## SECTION 828 GUARDRAIL

**828.01 Description.** This material consists of guardrail, structural steel posts, and related hardware.

### 828.02 Material Requirements.

(a) Steel Posts, Steel Offset Blocks, and Steel Shapes. Steel posts, offset blocks, shapes, and all structural steel parts shall conform to the requirements of AASHTO M 183/M 183M, or shall be fabricated sections conforming to the requirements of ASTM A 769/A 769M. All shapes, except beams, shall be hot-dipped galvanized in accordance with AASHTO M 111.

The Contractor may elect to use either hot-dipped galvanized rolled H sections or fabricated sections, that conform to the requirements of ASTM A 769/A 769M, Grade 250.

(b) Beams. All beams shall conform to the requirements of AASHTO M 180, Class A, Type I or Type II.

(c) Hardware. Bolts, nuts, and washers shall be the manufacturer's standard shoulder bolts for the purpose intended and shall conform to the requirements of AASHTO M 180. All hardware shall have a zinc coating conforming to the requirements of AASHTO M 232.

(d) Rods and Turnbuckles. Rods and turnbuckles shall have a minimum tensile strength of 270 kN. Rods, nuts, turnbuckles, and washers shall be hot-dipped galvanized according to the requirements of AASHTO M 111.

(e) Swaged Cable Assembly for Guardrail End Treatment. Threads for the stud shall be manufactured according to ANSI B1.13M, M24 × 3 - 6g. The cable shall be swaged into the fitting. The stud shall conform to ASTM F 568, Class C or AASHTO M 297 (ASTM B 695), Class 50. The 10 mm slot for the locking pin shall be milled into the stud end prior to the application of the zinc coating.

The swaged fitting shall be machined from hot-rolled carbon steel conforming to ASTM A 576, Grade 1035, and zinc-coated according to AASHTO M 111 (ASTM A 123) before swaging. The material shall be annealed suitably for cold swaging. A lock pin hole to accommodate a 6 mm plated spring-steel pin shall be drilled through the head of the swaged fitting to retain the stud in the proper position.

The wire rope shall be 19 mm diameter, 6 by 19 wire stem+core or independent wire rope core (IWRC), zinc-coated, right regular lay wire rope conforming to AASHTO M 30. The wire rope steel shall be improved steel with a minimum breaking strength of 190 kN. The swaged fitting, stud, and nuts shall develop the breaking strength of the wire rope.

(f) Reflectorized Washers. Reflectorized washers for guardrail posts shall consist of single-faced white or yellow reflectorized washer units. Washers shall be fabricated from aluminum plates conforming to the requirements of ASTM B 209M, Alloy 5052-H32. Retroreflectorized sheeting conforming to the requirements of AASHTO M 268 shall be applied to the washer.

(g) Timber Posts and Blocks. Timber posts and blocks shall conform to the dimensions shown on the Standard Construction Details. Timber used for posts and blocks shall conform to the requirements of Section 601.

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices.

## SECTION 829 ANTISTRIPPING ADDITIVES

The antistripping additive shall be oil soluble and, when added to asphalt cement, shall promote strong adhesion characteristics with aggregates, shall be compatible with the asphalt cement in which it is to be added, shall not change the basic characteristics of the asphalt cement, and shall be heat-stable when added at the manufacturer's recommended dosage for a minimum of 96 hours at the bituminous materials normal storage temperature.

The antistripping additive for bituminous concrete shall be evaluated according to the requirements of AASHTO R 15. Testing shall conform to the requirements of AASHTO T 283. The TSR shall be a minimum of 80. The abbreviations, where used on the Plans, the Engineer's estimates, or in bid documents and/or bid tabulations, shall be construed the same as respective expressions stated below:

Item, Word, or Phrase	Abbreviation
Abutment	Abut.
Adjust	Adj.
Aggregate	Agg.
Bituminous	Bit.
Bridge	Br.
Concrete	Conc.
Conduit Junction Well	Cond. Junct. Well

Continuously Reinforced	Cont. Reinf.
Corrugated Aluminum Pipe	CAP
Corrugated Metal Pipe	CMP
Double	Dbl.
Drainage Inlet	DI
Embankment	Embank.
Excavation	Excav.
Footing	Ftg.
Galvanized	Galv.
Galvanized Corrugated Steel Pipe	GCSP
Guardrail	GR
Hydrants	Hyd.
Junction Box	JB
Manhole	MH
Modified	Mod.
Pavement	Pav't.
Perforated	Perf.
Permanent	Perm.
Portland Cement Concrete	PCC
Reinforced Concrete Pipe	RCP
Right-of-Way	ROW
Roadway	Rdwy.
Sanitary	San.
Surface	Surf.
Temporary	Temp.
Temporary Roadway Material	TRM

Vehicular	Veh.
Water Valve	WV

APPROXIMATE CONVERSIONS TO SI UNITS				
Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH				
	mils	0.025 4	millimeters	mm
in	inches	25.4	millimeters	mm
ft	feet	0.3048	meters	m
yd	yards	0.9144	meters	m
mi	miles	1.609344	kilometers	km
AREA				
in <sup>2</sup>	square inches	645.16	millimeters squared	mm <sup>2</sup>
ft <sup>2</sup>	square feet	0.092 903	meters squared	m <sup>2</sup>
fl oz	fluid ounces	29.57353	milliliters	mL
yd <sup>2</sup>	square yards	0.8361274	meters squared	m <sup>2</sup>
ac	acres	0.4046856	hectares	ha
mi <sup>2</sup>	square miles	2.59	kilometers squared	km <sup>2</sup>
VOLUME				
fl oz	fluid ounces	29.573 53	milliliters	mL
gal	gallons	3.785 412	liters	L
ft <sup>3</sup>	cubic feet	0.028 316 85	meters cubed	m <sup>3</sup>
yd <sup>3</sup>	cubic yards	0.764 555	meters cubed	m <sup>3</sup>
Note: Volumes greater than 1 000 L shall be shown in m <sup>3</sup> .				
MASS				
oz	ounces	28.349 52	grams	g
lb	pounds	0.453 592	kilograms	kg
T	short tons (2000 lb)	0.907 184	metric tons	t
OTHER				
F	Fahrenheit temperature	5(F - 32)/9	Celsius temperature	C
T F	Change in Fahrenheit temperature	0.555 556	Change in Celsius temperature	T C

psi	pounds per square inch	6 894.757	Pascals	Pa
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**APPROXIMATE CONVERSIONS FROM SI UNITS**

Symbol	When You Know	Multiply By	To Find	Symbol
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**LENGTH**

mm	millimeters	39.370 08	mils	
mm	millimeters	0.039 37	inches	in
m	meters	3.280	feet	ft
m	meters	1.093	yards	yd
km	kilometers	0.621 371 2	miles	mi

**AREA**

mm <sup>2</sup>	millimeters squared	0.001 155	square inches	in <sup>2</sup>
m <sup>2</sup>	meters squared	10.763 91	square feet	ft <sup>2</sup>
mL	milliliters	0.033 814	fluid ounces	fl oz
m <sup>2</sup>	meters squared	1.195 99	square yards	yd <sup>2</sup>
ha	hectares	2.471 054	acres	ac
km <sup>2</sup>	kilometers squared	0.386	square miles	mi <sup>2</sup>

**VOLUME**

mL	milliliters	0.033 814	fluid ounces	fl oz
L	liters	0.264 172	gallons	gal
m <sup>3</sup>	meters cubed	35.314 662 5	cubic feet	ft <sup>3</sup>
m <sup>3</sup>	meters cubed	1.307 750	cubic yards	yd <sup>3</sup>

**MASS**

g	grams	0.035 273 9	ounces	oz
kg	kilograms	2.204 624 4	pounds	lb
t	metric tons	1.102 312 2	short tons (2 000 lb)	T

**OTHER**

C	Celsius temperature	1.8C + 32	Fahrenheit temperature	F
T C	Change in Celsius temperature	1.8	Change in Fahrenheit temperature	T F
Pa	Pascals	0.000 145 037	pounds per square inch	psi

Other		
Quantity	Unit	Symbol
acceleration	meter per second squared	m/s <sup>2</sup>
area	square micrometer	μm <sup>2</sup>
	square millimeter	mm <sup>2</sup>
	square meter	m <sup>2</sup>
	hectare	ha
	square kilometer	km <sup>2</sup>
Celsius temperature	degree Celsius	C
density	kilogram per cubic meter	kg/m <sup>3</sup>
electric resistance	ohm	
energy, work, quantity of heat	joule	J
	kilojoule	kJ
	Newton meter	N m
force	Newton	N
	kilonewton	kN
illuminance	lux	lx
length	meter	m
	micrometer	μm
	millimeter	mm
	kilometer	km
luminous intensity	candela	cd
luminance	candela per square meter	cd/m <sup>2</sup>
luminous flux	lumen	lm
mass	gram	g
	kilogram	kg

	metric ton	t
moment of force	Newton meter	N m
pressure, stress	Pascal	Pa
	kilopascal	kPa
time	second	s
thermodynamic temperature	Kelvin	K
velocity	meter per second	m/s
viscosity, dynamic	Pascal second	Pa s
viscosity, kinematic	square meter per second	m <sup>2</sup> /s
volume	liter	L
	milliliter	mL
	cubic meter	m <sup>3</sup>

This list of Standard Construction Items is developed for tracking all the possible pay items covered under the Standard Specifications for Road and Bridge Construction, using computer techniques. A similar list is being developed separately for the Special Provisions items.

The first three digits of the Item Number represent the Section Number and the last three digits reflect the sequential number under that Section. The descriptions under Item Description is the title of the construction item. The last column lists the method of measurement for the item

Item No.	Item Description	Pay Unit
DIVISION 200 EARTHWORK		
201000	Clearing and Grubbing	L.S.
202000	Excavation and Embankment	m <sup>3</sup>
203000	Channel Excavation	m <sup>3</sup>
204000	Muck Excavation	m <sup>3</sup>
205000	Rock Excavation for Roadway	m <sup>3</sup>
206000	Rock Excavation for Structures and Trenches	m <sup>3</sup>
207000	Excavation and Backfill for Structures	m <sup>3</sup>
208000	Excavation and Backfill for Pipe Trenches	m <sup>3</sup>
209001	Borrow, Type A	m <sup>3</sup>

209002	Borrow, Type B	m <sup>3</sup>
209003	Borrow, Type C	m <sup>3</sup>
209004	Borrow, Type D	m <sup>3</sup>
209005	Borrow, Type E	m <sup>3</sup>
209006	Borrow, Type F	m <sup>3</sup>
209007	Borrow, Type G	m <sup>3</sup>
210000	Furnishing Borrow Type C for Pipe, Utility Trench, and Structure Backfill	m <sup>3</sup>
210001	Furnishing Borrow Type F for Pipe, Utility Trench, and Structure Backfill	m <sup>3</sup>
210002	Furnishing Borrow Type B for Pipe, Utility Trench, and Structure Backfill	m <sup>3</sup>
211000	Removal of Structures and Obstructions	L.S.
211002	Removal of Structures and Obstructions (Guardrail)	m
211004	Removal of Structures and Obstructions (Pipe)	m
212000	Undercut Excavation	m <sup>3</sup>
212001	Undercut Excavation, Patching	m <sup>3</sup>
250000	Sediment Removal	m <sup>3</sup>
251000	Silt Fence	m
251001	Reinforced Silt Fence	m
252000	Inlet Sediment Control, Drainage Inlet	EA
252001	Inlet Sediment Control, Curb Inlet	EA
254000	Stone Check Dam	t
255000	Sediment Trap	m <sup>3</sup>
256000	Riser Pipe Assembly for Sediment Trap	EA
257000	Riprap Ditch	m <sup>3</sup>
258000	Temporary Swale, Type A-1	m
258001	Temporary Swale, Type A-2	m
258002	Temporary Swale, Type A-3	m
258003	Temporary Swale, Type B-1	m

258004	Temporary Swale, Type B-2	m
258005	Temporary Swale, Type B-3	m
259000	Perimeter Dike/Swale, Type A-1	m
259001	Perimeter Dike/Swale, Type A-2	m
259002	Perimeter Dike/Swale, Type A-3	m
260000	Earth Dike, Type A-1	m
260001	Earth Dike, Type A-2	m
260002	Earth Dike, Type A-3	m
260003	Earth Dike, Type B-1	m
260004	Earth Dike, Type B-2	m
260005	Earth Dike, Type B-3	m
261000	Temporary Slope Drain, 300 mm	m
261001	Temporary Slope Drain, 450 mm	m
261002	Temporary Slope Drain, 525 mm	m
261003	Temporary Slope Drain, 600 mm	m
261004	Temporary Slope Drain, 750 mm	m
262000	Stilling Well	m <sup>3</sup>
263000	Sump Pit	EA
264000	Dewatering Basin	EA
265000	Geotextile Lined Channel Diversion	m <sup>3</sup>
266000	Sandbag Dikes	m <sup>3</sup>
266001	Sandbag Diversions	m <sup>3</sup>
268000	Stabilized Construction Entrance	t
269000	Turbidity Curtain, Floating	m
269001	Turbidity Curtain, Staked	m
270000	Portable Sediment Tank	EA
271000	Stormwater Management Pond	m <sup>3</sup>

272000	Pond Outlet Structure, Concrete	EA
273000	Temporary Sediment Basin Outlet Structure, Corrugated Metal	EA
274000	Clay Borrow, Stormwater Management Pond, Type I	m <sup>3</sup>
274001	Clay Borrow, Stormwater Management Pond, Type II	m <sup>3</sup>
DIVISION 300 BASES		
301000	Select Borrow Base Course	m <sup>3</sup>
302002	Graded Aggregate Base Course, Type B	m <sup>3</sup>
302003	Graded Aggregate Base Course, Type B, Patching	m <sup>3</sup>
302005	Graded Aggregate Base Course, Type B	t
302006	Graded Aggregate Base Course, Type B, Patching	t
304000	Asphalt Stabilized Base Course	km
304001	HFMS-2S	L
305001	Graded Aggregate for Temporary Roadway Material	t
DIVISION 400 BITUMINOUS PAVEMENTS		
401001	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type A	t
401002	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type B	t
401003	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type C	t
401004	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type D	t
401005	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type E	t
401006	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type C, Patching	t
401007	Hot-Mix, Hot-Laid Bituminous Concrete Pavement, Type B, Patching	t
401008	Entrance and Driveway Paving	m <sup>2</sup>
401009	Bituminous Concrete Base Course	t
401010	Bituminous Concrete Base Course, Patching	t
402000	Hot-Mix Bituminous Concrete and/or Cold-Laid Bituminous Concrete (TRM)	t
403000	Plant Mix Open-Graded Wearing Surface	t
404001	Bituminous Surface Treatment, RS-1	L
404002	Bituminous Surface Treatment, RS-2	L

404003	Bituminous Surface Treatment, CRS-1	L
404004	Bituminous Surface Treatment, CRS-2	L
404005	Coarse Aggregate	t
405000	Retreatment and Seal Coats	L
406000	Hot-Mix Patching	m <sup>2</sup> -mm
DIVISION 500 RIGID PAVEMENT		
501001	Portland Cement Concrete Pavement, 200 mm	m <sup>2</sup>
501002	Portland Cement Concrete Pavement, 225 mm	m <sup>2</sup>
501003	Transverse Sawed Joints	m
501004	Portland Cement Concrete Pavement, 250 mm	m <sup>2</sup>
501005	Portland Cement Concrete Pavement, 275 mm	m <sup>2</sup>
501006	Portland Cement Concrete Pavement, 300 mm	m <sup>2</sup>
501007	Portland Cement Concrete Shoulder, 200 mm Avg.	m <sup>2</sup>
501008	Portland Cement Concrete Shoulder, 213 mm Avg.	m <sup>2</sup>
501009	Portland Cement Concrete Shoulder, 250 mm Avg.	m <sup>2</sup>
501010	Portland Cement Concrete Shoulder, 225 mm Avg.	m <sup>2</sup>
501011	Portland Cement Concrete Shoulder, 200 mm Avg.	m <sup>2</sup>
501012	Portland Cement Concrete Pavement, 350 mm Avg.	m <sup>2</sup>
503003	Patching Portland Cement Concrete Pavement, Type I, Class A	m <sup>2</sup>
503004	Patching Portland Cement Concrete Pavement, Type II, Class A	m <sup>2</sup>
503005	Deformed Bars	EA
503006	Dowel Bars	EA
503007	Deformed Bars, 900 mm	EA
503009	Patching Portland Cement Concrete Pavement, Type I, Class B	m <sup>2</sup>
503010	Patching Portland Cement Concrete Pavement, Type II, Class B	m <sup>2</sup>
DIVISION 600 STRUCTURES		
601001	Timber Structures	m <sup>3</sup>
601002	Timber Structures (Treated)	m <sup>3</sup>

601003	Timber Structures (Glue-Laminated)	m <sup>3</sup>
601004	Timber Structures (Glue-Laminated Timber Deck)	m <sup>2</sup>
602001	Portland Cement Concrete Masonry, Class A	m <sup>3</sup>
602002	Portland Cement Concrete Masonry, Class B	m <sup>3</sup>
602003	Portland Cement Concrete Masonry, Abutment, Footing, Class A	m <sup>3</sup>
602004	Portland Cement Concrete Masonry, Abutment, Footing, Class B	m <sup>3</sup>
602005	Portland Cement Concrete Masonry, Abutment, Above Footing, Class B	m <sup>3</sup>
602006	Portland Cement Concrete Masonry, Pier Footing, Class B	m <sup>3</sup>
602007	Portland Cement Concrete Masonry, Pier Above Footing, Class A	m <sup>3</sup>
602008	Portland Cement Concrete Masonry, Pier Above Footing, Class B	m <sup>3</sup>
602009	Portland Cement Concrete Masonry, Approach Slab, Class A	m <sup>3</sup>
602010	Portland Cement Concrete Masonry, Approach Slab, Class B	m <sup>3</sup>
602011	Portland Cement Concrete Masonry, Substructure, Type A	m <sup>3</sup>
602012	Portland Cement Concrete Masonry, Substructure, Type B	m <sup>3</sup>
602013	Portland Cement Concrete Masonry, Superstructure, Type D	m <sup>3</sup>
602014	Portland Cement Concrete Masonry, Approach Slab, Class D	m <sup>3</sup>
602015	Portland Cement Concrete Masonry, Abutment, Above Footing, Class A	m <sup>3</sup>
602016	Portland Cement Concrete Masonry, Class C	m <sup>3</sup>
602017	Portland Cement Concrete Masonry, Parapet, Class A	m <sup>3</sup>
602018	Portland Cement Concrete Masonry, Class D	m <sup>3</sup>
603000	Bar Reinforcement	kg
604000	Bar Reinforcement, Epoxy Coated	kg
605001	Steel Structures	kg
605002	Steel Structures	L.S.
605003	Steel Structures (Unpainted)	L.S.
605005	Painting, Moisture-Cured Urethane System	L.S.
605006	Painting, Moisture-Cured Urethane System	m <sup>2</sup>
606001	Metal Bridge Railing, Steel	m
606002	Metal Bridge Railing, Aluminum	m

607000	Removal of Existing Masonry	m <sup>3</sup>
608000	Coarse Aggregate for Foundation Stabilization and Subfoundation Backfill	t
609000	Subfoundation Concrete	m <sup>3</sup>
610001	Stone Masonry	m <sup>2</sup>
611000	Brick Masonry	m <sup>2</sup>
612001	Reinforced Concrete Pipe, 300 mm, Class III	m
612002	Reinforced Concrete Pipe, 375 mm, Class III	m
612003	Reinforced Concrete Pipe, 450 mm, Class III	m
612004	Reinforced Concrete Pipe, 525 mm, Class III	m
612005	Reinforced Concrete Pipe, 600 mm, Class III	m
612006	Reinforced Concrete Pipe, 675 mm, Class III	m
612007	Reinforced Concrete Pipe, 750 mm, Class III	m
612008	Reinforced Concrete Pipe, 825 mm, Class III	m
612009	Reinforced Concrete Pipe, 900 mm, Class III	m
612010	Reinforced Concrete Pipe, 1050 mm, Class III	m
612011	Reinforced Concrete Pipe, 1200 mm, Class III	m
612012	Reinforced Concrete Pipe, 1350 mm, Class III	m
612013	Reinforced Concrete Pipe, 1500 mm, Class III	m
612014	Reinforced Concrete Pipe, 1650 mm, Class III	m
612015	Reinforced Concrete Pipe, 1800 mm, Class III	m
612016	Reinforced Concrete Pipe, 1950 mm, Class III	m
612017	Reinforced Concrete Pipe, 2100 mm, Class III	m
612018	Reinforced Concrete Pipe, 2250 mm, Class III	m
612019	Reinforced Concrete Pipe, 2400 mm, Class III	m
612020	Reinforced Concrete Pipe, 300 mm, Class IV	m
612021	Reinforced Concrete Pipe, 375 mm, Class IV	m
612022	Reinforced Concrete Pipe, 450 mm, Class IV	m
612023	Reinforced Concrete Pipe, 600 mm, Class IV	m
612024	Reinforced Concrete Pipe, 675 mm, Class IV	m
612025	Reinforced Concrete Pipe, 750 mm, Class IV	m

612026	Reinforced Concrete Pipe, 750 mm, Class V	m
612027	Reinforced Concrete Pipe, 1050 mm, Class IV	m
612028	Reinforced Concrete Pipe, 1200 mm, Class IV	m
612029	Reinforced Concrete Pipe, 1350 mm, Class IV	m
612030	Reinforced Concrete Pipe, 450 mm, Class V	m
612031	Reinforced Concrete Pipe, 600 mm, Class V	m
612032	Reinforced Concrete Pipe, 375 mm, Class V	m
612033	Reinforced Concrete Pipe, 525 mm, Class IV	m
612034	Reinforced Concrete Pipe, 900 mm, Class IV	m
612035	Reinforced Concrete Pipe, 1650 mm, Class V	m
612036	Reinforced Concrete Pipe, 1200 mm, Class V	m
612038	Reinforced Concrete Pipe, 1500 mm, Class IV	m
612039	Reinforced Concrete Pipe, 900 mm, Class V	m
612040	Reinforced Concrete Pipe, 750 mm, Class V	m
612041	Reinforced Concrete Pipe, 1350 mm, Class V	m
612042	Reinforced Concrete Pipe, 2550 mm, Class III	m
612043	Reinforced Concrete Pipe, 1050 mm, Class V	m
612044	Reinforced Concrete Pipe, 1650 mm, Class IV	m
612045	Reinforced Concrete Pipe, 975 mm, Class IV	m
612046	Reinforced Concrete Pipe, 525 mm, Class V	m
612047	Reinforced Concrete Pipe, 675 mm, Class V	m
612048	Reinforced Concrete Pipe, 825 mm, Class IV	m
612200	Reinforced Concrete Elliptical Pipe, 350 × 575 mm, Class III	m
612201	Reinforced Concrete Elliptical Pipe, 475 × 750 mm, Class III	m
612202	Reinforced Concrete Elliptical Pipe, 600 × 950 mm, Class III	m
612203	Reinforced Concrete Elliptical Pipe, 850 × 1325 mm, Class III	m
612204	Reinforced Concrete Elliptical Pipe, 800 × 1225 mm, Class III	m
612205	Reinforced Concrete Elliptical Pipe, 475 × 750 mm, Class IV	m
612206	Reinforced Concrete Elliptical Pipe, 550 × 850 mm, Class III	m
612207	Reinforced Concrete Elliptical Pipe, 725 × 1125 mm, Class III	m

612208	Reinforced Concrete Elliptical Pipe, 1075 × 1700 mm, Class IV	m
612209	Reinforced Concrete Elliptical Pipe, 675 × 1050 mm, Class III	m
612210	Reinforced Concrete Elliptical Pipe, 550 × 850 mm, Class IV	m
612211	Reinforced Concrete Elliptical Pipe, 950 × 1500 mm, Class III	m
612212	Reinforced Concrete Arch Pipe, 275 × 450 mm, Class III	m
612213	Reinforced Concrete Elliptical Pipe, 675 × 1050 mm, Class IV	m
612214	Reinforced Concrete Elliptical Pipe, 800 × 1225 mm, Class IV	m
612215	Reinforced Concrete Elliptical Pipe, 950 × 1500 mm, Class IV	m
612216	Reinforced Concrete Elliptical Pipe, 350 × 575 mm, Class IV	m
612217	Reinforced Concrete Elliptical Pipe, 1200 × 1900 mm, Class III	m
612218	Reinforced Concrete Elliptical Pipe, 850 × 1325 mm, Class IV	m
612219	Reinforced Concrete Elliptical Pipe, 600 × 950 mm, Class IV	m
612220	Reinforced Concrete Elliptical Pipe, 725 × 1125 mm, Class IV	m
612221	Reinforced Concrete Elliptical Pipe, 1200 × 1900 mm, Class IV	m
614001	Galvanized Corrugated Steel Pipe, 300 mm, 1.6 mm, 68 × 13 mm Corrugation	m
614002	Galvanized Corrugated Steel Pipe, 375 mm, 1.6 mm, 68 × 13 mm Corrugation	m
614003	Galvanized Corrugated Steel Pipe, 450 mm, 1.6 mm, 68 × 13 mm Corrugation	m
614004	Galvanized Corrugated Steel Pipe, 525 mm, 1.6 mm, 68 × 13 mm Corrugation	m
614005	Galvanized Corrugated Steel Pipe, 600 mm, 1.6 mm, 68 × 13 mm Corrugation	m
614006	Galvanized Corrugated Steel Pipe, 750 mm, 2 mm, 68 × 13 mm Corrugation	m
614007	Galvanized Corrugated Steel Pipe, 900 mm, 2 mm, 68 × 13 mm Corrugation	m
614008	Galvanized Corrugated Steel Pipe, 1050 mm, 2 mm, 68 × 13 mm Corrugation	m
614009	Galvanized Corrugated Steel Pipe, 1200 mm, 2.8 mm, 68 × 13 mm Corrugation	m
614010	Galvanized Corrugated Steel Pipe, 1350 mm, 2.8 mm, 68 × 13 mm Corrugation	m
614011	Galvanized Corrugated Steel Pipe, 1500 mm, 3.5 mm, 68 × 13 mm Corrugation	m
614012	Galvanized Corrugated Steel Pipe, 1650 mm, 3.5 mm, 68 × 13 mm Corrugation	m
614013	Galvanized Corrugated Steel Pipe, 1800 mm, 4.3 mm, 68 × 13 mm Corrugation	m

614014	Galvanized Corrugated Steel Pipe, 1950 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614015	Galvanized Corrugated Steel Pipe, 2100 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614016	Galvanized Corrugated Steel Pipe, 2250 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614017	Galvanized Corrugated Steel Pipe, 2400 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614018	Galvanized Corrugated Steel Pipe, 900 mm, 2 mm, 75 x 25 mm Corrugation	m
614019	Galvanized Corrugated Steel Pipe, 1050 mm, 2 mm, 75 x 25 mm Corrugation	m
614020	Galvanized Corrugated Steel Pipe, 1200 mm, 2 mm, 75 x 25 mm Corrugation	m
614021	Galvanized Corrugated Steel Pipe, 1350 mm, 2 mm, 75 x 25 mm Corrugation	m
614022	Galvanized Corrugated Steel Pipe, 1500 mm, 2 mm, 75 x 25 mm Corrugation	m
614023	Galvanized Corrugated Steel Pipe, 1650 mm, 2 mm, 75 x 25 mm Corrugation	m
614024	Galvanized Corrugated Steel Pipe, 1800 mm, 2 mm, 75 x 25 mm Corrugation	m
614025	Galvanized Corrugated Steel Pipe, 1950 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614026	Galvanized Corrugated Steel Pipe, 2100 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614027	Galvanized Corrugated Steel Pipe, 2250 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614028	Galvanized Corrugated Steel Pipe, 2400 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614029	Galvanized Corrugated Steel Pipe, 900 mm, 2 mm, 125 x 25 mm Corrugation	m
614030	Galvanized Corrugated Steel Pipe, 1050 mm, 2 mm, 125 x 25 mm Corrugation	m
614031	Galvanized Corrugated Steel Pipe, 1200 mm, 2 mm, 125 x 25 mm Corrugation	m
614032	Galvanized Corrugated Steel Pipe, 1350 mm, 2 mm, 125 x 25 mm Corrugation	m
614033	Galvanized Corrugated Steel Pipe, 1500 mm, 2 mm, 125 x 25 mm Corrugation	m
614034	Galvanized Corrugated Steel Pipe, 1650 mm, 2 mm, 125 x 25 mm Corrugation	m
614035	Galvanized Corrugated Steel Pipe, 1800 mm, 2 mm, 125 x 25 mm Corrugation	m
614036	Galvanized Corrugated Steel Pipe, 1950 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614037	Galvanized Corrugated Steel Pipe, 2100 mm, 2.8 mm, 125 x 25 mm Corrugation	m

614038	Galvanized Corrugated Steel Pipe, 2250 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614039	Galvanized Corrugated Steel Pipe, 2400 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614040	Galvanized Corrugated Steel Pipe, 430 x 330 mm, 2 mm, 68 x 13 mm Corrugation	m
614041	Galvanized Corrugated Steel Pipe, 530 x 380 mm, 2 mm, 68 x 13 mm Corrugation	m
614042	Galvanized Corrugated Steel Pipe, 610 x 460 mm, 2 mm, 68 x 13 mm Corrugation	m
614043	Galvanized Corrugated Steel Pipe, 710 x 510 mm, 2 mm, 68 x 13 mm Corrugation	m
614044	Galvanized Corrugated Steel Pipe, 885 x 610 mm, 2 mm, 68 x 13 mm Corrugation	m
614045	Galvanized Corrugated Steel Pipe, 1060 x 740 mm, 2 mm, 68 x 13 mm Corrugation	m
614046	Galvanized Corrugated Steel Pipe, 1240 x 840 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614047	Galvanized Corrugated Steel Pipe, 1440 x 970 mm, 3.5 mm, 68 x 13 mm Corrugation	m
614048	Galvanized Corrugated Steel Pipe, 1620 x 1100 mm, 3.5 mm, 68 x 13 mm Corrugation	m
614049	Galvanized Corrugated Steel Pipe, 1800 x 1200 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614050	Galvanized Corrugated Steel Pipe, 1950 x 1320 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614051	Galvanized Corrugated Steel Pipe, 2100 x 1450 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614052	Galvanized Corrugated Steel Pipe, 1010 x 790 mm, 2 mm, 75 x 25 mm Corrugation	m
614053	Galvanized Corrugated Steel Pipe, 1160 x 920 mm, 2 mm, 75 x 25 mm Corrugation	m
614054	Galvanized Corrugated Steel Pipe, 1340 x 1050 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614055	Galvanized Corrugated Steel Pipe, 1520 x 1170 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614056	Galvanized Corrugated Steel Pipe, 1670 x 1300 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614057	Galvanized Corrugated Steel Pipe, 1850 x 1400 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614058	Galvanized Corrugated Steel Pipe, 2050 x 1500 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614059	Galvanized Corrugated Steel Pipe, 2200 x 1620 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614060	Galvanized Corrugated Steel Pipe, 2400 x 1720 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614061	Galvanized Corrugated Steel Pipe, 2600 x 1820 mm, 2.8 mm, 75 x 25 mm Corrugation	m

614062	Galvanized Corrugated Steel Pipe, 2050 x 1500 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614063	Galvanized Corrugated Steel Pipe, 2200 x 1620 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614064	Galvanized Corrugated Steel Pipe, 2400 x 1720 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614065	Galvanized Corrugated Steel Pipe, 2600 x 1820 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614066	Galvanized Corrugated Steel Pipe, 1010 x 790 mm, 2 mm, 125 x 25 mm Corrugation	m
614067	Galvanized Corrugated Steel Pipe, 1160 x 920 mm, 2 mm, 125 x 25 mm Corrugation	m
614068	Galvanized Corrugated Steel Pipe, 1340 x 1050 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614069	Galvanized Corrugated Steel Pipe, 1520 x 1170 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614070	Galvanized Corrugated Steel Pipe, 1670 x 1300 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614071	Galvanized Corrugated Steel Pipe, 1850 x 1400 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614072	Galvanized Corrugated Steel Pipe, 2050 x 1500 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614073	Galvanized Corrugated Steel Pipe, 2200 x 1620 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614074	Galvanized Corrugated Steel Pipe, 2400 x 1720 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614075	Galvanized Corrugated Steel Pipe, 2600 x 1820 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614076	Galvanized Corrugated Steel Pipe, 2050 x 1500 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614077	Galvanized Corrugated Steel Pipe, 2200 x 1620 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614078	Galvanized Corrugated Steel Pipe, 2400 x 1720 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614079	Galvanized Corrugated Steel Pipe, 2600 x 1820 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614080	Galvanized Corrugated Steel Pipe, 1800 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614081	Galvanized Corrugated Steel Pipe, 200 mm, 1.6 mm, 38 x 6.5 mm Corrugation	m
614082	Galvanized Corrugated Steel Pipe, 450 mm, 1.6 mm, Fully Coated and Paved	m
614083	Galvanized Corrugated Steel Pipe, 3240 x 2120 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614084	Galvanized Corrugated Steel Pipe, 250 mm, 1.6 mm, 38 x 6.5 mm Corrugation	m
614085	Galvanized Corrugated Steel Pipe, 1520 x 1170 mm, 3.5 mm, 75 x 25 mm Corrugation	m

614086	Galvanized Corrugated Steel Pipe, 675 mm, 2 mm, 68 x 13 mm Corrugation	m
614087	Galvanized Corrugated Steel Pipe, 300 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614088	Galvanized Corrugation Steel Pipe, 200 mm, 1.6 mm, 68 x 13 mm Corrugation	m
614089	Galvanized Corrugated Steel Pipe, 150 mm, 1.3 mm, 38 x 6.5 mm Corrugation	m
614090	Galvanized Corrugated Steel Pipe, 2970 x 2020 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614091	Galvanized Corrugated Steel Pipe, 1500 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614092	Galvanized Corrugated Steel Pipe, 1440 x 970 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614093	Galvanized Corrugated Steel Pipe, 1800 x 1200 mm, 3.5 mm, 68 x 13 mm Corrugation	m
614094	Galvanized Corrugated Steel Pipe, Full Coated, 450 mm, 1.6 mm, 68 x 13 mm Corrugation	m
614096	Galvanized Corrugated Steel Pipe, Full Coated, 375 mm, 1.6 mm, 68 x 13 mm Corrugation	m
614097	Galvanized Corrugation Steel Pipe, 1160 x 920 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614098	Galvanized Corrugated Steel Pipe, 3600 x 2320 mm, 3.5 mm Corrugation	m
614099	Galvanized Corrugated Steel Pipe, 750 mm, 2 mm, 75 x 25 mm Corrugation	m
614101	Galvanized Corrugated Steel Pipe, 1440 x 970 mm, 2 mm, 68 x 13 mm Corrugation	m
614103	Galvanized Corrugated Steel Pipe, 375 mm, 2 mm, 68 x 13 mm Corrugation	m
614200	Corrugated Aluminum Pipe, 300 mm, 2 mm, 68 x 13 mm Corrugation	m
614201	Corrugated Aluminum Pipe, 375 mm, 2 mm, 68 x 13 mm Corrugation	m
614202	Corrugated Aluminum Pipe, 450 mm, 2 mm, 68 x 13 mm Corrugation	m
614203	Corrugated Aluminum Pipe, 525 mm, 2 mm, 68 x 13 mm Corrugation	m
614204	Corrugated Aluminum Pipe, 600 mm, 2 mm, 68 x 13 mm Corrugation	m
614205	Corrugated Aluminum Pipe, 750 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614206	Corrugated Aluminum Pipe, 900 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614207	Corrugated Aluminum Pipe, 1050 mm, 3.5 mm, 68 x 13 mm Corrugation	m
614208	Corrugated Aluminum Pipe, 1200 mm, 3.5 mm, 68 x 13 mm Corrugation	m

614209	Corrugated Aluminum Pipe, 1350 mm, 3.5 mm, 68 × 13 mm Corrugation	m
614210	Corrugated Aluminum Pipe, 1500 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614211	Corrugated Aluminum Pipe, 1650 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614212	Corrugated Aluminum Pipe, 1800 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614213	Corrugated Aluminum Pipe, 1950 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614214	Corrugated Aluminum Pipe, 2100 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614215	Corrugated Aluminum Pipe, 2250 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614216	Corrugated Aluminum Pipe, 2400 mm, 4.3 mm, 68 × 13 mm Corrugation	m
614217	Corrugated Aluminum Pipe, 900 mm, 2 mm, 75 × 25 mm Corrugation	m
614218	Corrugated Aluminum Pipe, 1050 mm, 2 mm, 75 × 25 mm Corrugation	m
614219	Corrugated Aluminum Pipe, 1200 mm, 2 mm, 75 × 25 mm Corrugation	m
614220	Corrugated Aluminum Pipe, 1350 mm, 2.8 mm, 75 × 25 mm Corrugation	m
614221	Corrugated Aluminum Pipe, 1500 mm, 2.8 mm, 75 × 25 mm Corrugation	m
614222	Corrugated Aluminum Pipe, 1650 mm, 2.8 mm, 75 × 25 mm Corrugation	m
614223	Corrugated Aluminum Pipe, 1800 mm, 3.5 mm, 75 × 25 mm Corrugation	m
614224	Corrugated Aluminum Pipe, 1950 mm, 3.5 mm, 75 × 25 mm Corrugation	m
614225	Corrugated Aluminum Pipe, 2100 mm, 3.5 mm, 75 × 25 mm Corrugation	m
614226	Corrugated Aluminum Pipe, 2250 mm, 3.5 mm, 75 × 25 mm Corrugation	m
614227	Corrugated Aluminum Pipe, 2400 mm, 4.3 mm, 75 × 25 mm Corrugation	m
614228	Corrugated Aluminum Pipe, 900 mm, 2 mm, 125 × 25 mm Corrugation	m
614229	Corrugated Aluminum Pipe, 1050 mm, 2 mm, 125 × 25 mm Corrugation	m
614230	Corrugated Aluminum Pipe, 1200 mm, 2 mm, 125 × 25 mm Corrugation	m
614231	Corrugated Aluminum Pipe, 1350 mm, 2.8 mm, 125 × 25 mm Corrugation	m
614232	Corrugated Aluminum Pipe, 1500 mm, 2.8 mm, 125 × 25 mm Corrugation	m

614233	Corrugated Aluminum Pipe, 1650 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614234	Corrugated Aluminum Pipe, 1800 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614235	Corrugated Aluminum Pipe, 1950 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614236	Corrugated Aluminum Pipe, 2100 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614237	Corrugated Aluminum Pipe, 2250 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614238	Corrugated Aluminum Pipe, 2400 mm, 4.3 mm, 125 x 25 mm Corrugation	m
614239	Corrugated Aluminum Pipe, 425 x 325 mm, 2 mm, 68 x 13 mm Corrugation	m
614240	Corrugated Aluminum Pipe, 525 x 375 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614241	Corrugated Aluminum Pipe, 600 x 450 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614242	Corrugated Aluminum Pipe, 700 x 500 mm, 3.5 mm, 68 x 13 mm Corrugation	m
614243	Corrugated Aluminum Pipe, 875 x 600 mm, 3.5 mm, 68 x 13 mm Corrugation	m
614244	Corrugated Aluminum Pipe, 1050 x 725 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614245	Corrugated Aluminum Pipe, 1225 x 825 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614246	Corrugated Aluminum Pipe, 1425 x 950 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614247	Corrugated Aluminum Pipe, 1600 x 1075 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614248	Corrugated Aluminum Pipe, 1775 x 1175 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614249	Corrugated Aluminum Pipe, 1925 x 1300 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614250	Corrugated Aluminum Pipe, 2100 x 1450 mm, 4.3 mm, 68 x 13 mm Corrugation	m
614251	Corrugated Aluminum Pipe, 1000 x 775 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614252	Corrugated Aluminum Pipe, 1150 x 775 mm, 2.8 mm, 75 x 25 mm Corrugation	m
614253	Corrugated Aluminum Pipe, 1325 x 1025 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614254	Corrugated Aluminum Pipe, 1500 x 1150 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614255	Corrugated Aluminum Pipe, 1650 x 1275 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614256	Corrugated Aluminum Pipe, 1825 x 1375 mm, 3.5 mm, 75 x 25 mm Corrugation	m

614257	Corrugated Aluminum Pipe, 2025 x 1475 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614258	Corrugated Aluminum Pipe, 2175 x 1575 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614259	Corrugated Aluminum Pipe, 2375 x 1675 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614260	Corrugated Aluminum Pipe, 2575 x 1775 mm, 3.5 mm, 75 x 25 mm Corrugation	m
614261	Corrugated Aluminum Pipe, 1000 x 775 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614262	Corrugated Aluminum Pipe, 1150 x 775 mm, 2.8 mm, 125 x 25 mm Corrugation	m
614263	Corrugated Aluminum Pipe, 1325 x 1025 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614264	Corrugated Aluminum Pipe, 1500 x 1150 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614265	Corrugated Aluminum Pipe, 1650 x 1275 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614266	Corrugated Aluminum Pipe, 1825 x 1375 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614267	Corrugated Aluminum Pipe, 2025 x 1475 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614268	Corrugated Aluminum Pipe, 2175 x 1575 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614269	Corrugated Aluminum Pipe, 2375 x 1675 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614270	Corrugated Aluminum Pipe, 2575 x 1775 mm, 3.5 mm, 125 x 25 mm Corrugation	m
614271	Corrugated Aluminum Pipe, 150 mm, 2 mm, 68 x 13 mm Corrugation	m
614272	Corrugated Aluminum Pipe, 550 x 325 mm, 2.8 mm, 68 x 13 mm Corrugation	m
614273	Corrugated Aluminum Pipe, 750 mm, 2 mm, 75 x 25 mm Corrugation	m
614274	Corrugated Aluminum Pipe, 600 mm, 2.8 mm, 68 x 13 mm Corrugation	m
617001	Reinforced Concrete Flared End Section, 300 mm	EA
617002	Reinforced Concrete Flared End Section, 375 mm	EA
617003	Reinforced Concrete Flared End Section, 450 mm	EA
617004	Reinforced Concrete Flared End Section, 525 mm	EA
617005	Reinforced Concrete Flared End Section, 600 mm	EA
617006	Reinforced Concrete Flared End Section, 675 mm	EA
617007	Reinforced Concrete Flared End Section, 750 mm	EA

617008	Reinforced Concrete Flared End Section, 825 mm	EA
617009	Reinforced Concrete Flared End Section, 900 mm	EA
617010	Reinforced Concrete Flared End Section, 1050 mm	EA
617011	Reinforced Concrete Flared End Section, 1200 mm	EA
617012	Reinforced Concrete Flared End Section, 1350 mm	EA
617013	Reinforced Concrete Flared End Section, 1500 mm	EA
617014	Reinforced Concrete Flared End Section, 1650 mm	EA
617015	Reinforced Concrete Flared End Section, 1800 mm	EA
617016	Reinforced Concrete Flared End Section, 1950 mm	EA
617017	Reinforced Concrete Flared End Section, 2100 mm	EA
617018	Reinforced Concrete Flared End Section, 2250 mm	EA
617019	Reinforced Concrete Flared End Section, 2400 mm	EA
617020	Galvanized Corrugated Steel Pipe Flared End Section, 300 mm, 68 x 13 mm Corrugation	EA
617021	Galvanized Corrugated Steel Pipe Flared End Section, 375 mm, 68 x 13 mm Corrugation	EA
617022	Galvanized Corrugated Steel Pipe Flared End Section, 450 mm, 68 x 13 mm Corrugation	EA
617023	Galvanized Corrugated Steel Pipe Flared End Section, 525 mm, 68 x 13 mm Corrugation	EA
617024	Galvanized Corrugated Steel Pipe Flared End Section, 600 mm, 68 x 13 mm Corrugation	EA
617025	Galvanized Corrugated Steel Pipe Flared End Section, 675 mm, 68 x 13 mm Corrugation	EA
617026	Galvanized Corrugated Steel Pipe Flared End Section, 750 mm, 68 x 13 mm Corrugation	EA
617027	Galvanized Corrugated Steel Pipe Flared End Section, 825 mm, 68 x 13 mm Corrugation	EA
617028	Galvanized Corrugated Steel Pipe Flared End Section, 900 mm, 68 x 13 mm Corrugation	EA
617029	Galvanized Corrugated Steel Pipe Flared End Section, 1050 mm, 68 x 13 mm Corrugation	EA
617030	Galvanized Corrugated Steel Pipe Flared End Section, 1200 mm, 68 x 13 mm Corrugation	EA
617031	Galvanized Corrugated Steel Pipe Flared End Section, 1350 mm, 68 x 13 mm Corrugation	EA
617032	Galvanized Corrugated Steel Pipe Flared End Section, 1500 mm, 68 x 13 mm Corrugation	EA
617033	Galvanized Corrugated Steel Pipe Flared End Section, 1650 mm, 68 x 13 mm Corrugation	EA
617034	Galvanized Corrugated Steel Pipe Flared End Section, 1800 mm,	EA

	68 × 13 mm Corrugation	
617035	Galvanized Corrugated Steel Pipe Flared End Section, 1950 mm, 68 × 13 mm Corrugation	EA
617036	Galvanized Corrugated Steel Pipe Flared End Section, 2100 mm, 68 × 13 mm Corrugation	EA
617037	Galvanized Corrugated Steel Pipe Flared End Section, 2250 mm, 68 × 13 mm Corrugation	EA
617038	Galvanized Corrugated Steel Pipe Flared End Section, 2400 mm, 68 × 13 mm Corrugation	EA
617039	Galvanized Corrugated Steel Pipe Flared End Section, 900 mm, 75 × 25 mm Corrugation	EA
617040	Galvanized Corrugated Steel Pipe Flared End Section, 1050 mm, 75 × 25 mm Corrugation	EA
617041	Galvanized Corrugated Steel Pipe Flared End Section, 1200 mm, 75 × 25 mm Corrugation	EA
617042	Galvanized Corrugated Steel Pipe Flared End Section, 1350 mm, 75 × 25 mm Corrugation	EA
617043	Galvanized Corrugated Steel Pipe Flared End Section, 1500 mm, 75 × 25 mm Corrugation	EA
617044	Galvanized Corrugated Steel Pipe Flared End Section, 1650 mm, 75 × 25 mm Corrugation	EA
617045	Galvanized Corrugated Steel Pipe Flared End Section, 1800 mm, 75 × 25 mm Corrugation	EA
617046	Galvanized Corrugated Steel Pipe Flared End Section, 1950 mm, 75 × 25 mm Corrugation	EA
617047	Galvanized Corrugated Steel Pipe Flared End Section, 2100 mm, 75 × 25 mm Corrugation	EA
617048	Galvanized Corrugated Steel Pipe Flared End Section, 2250 mm, 75 × 25 mm Corrugation	EA
617049	Galvanized Corrugated Steel Pipe Flared End Section, 2400 mm, 75 × 25 mm Corrugation	EA
617050	Galvanized Corrugated Steel Pipe Flared End Section, 900 mm, 125 × 25 mm Corrugation	EA
617051	Galvanized Corrugated Steel Pipe Flared End Section, 1050 mm, 125 × 25 mm Corrugation	EA
617052	Galvanized Corrugated Steel Pipe Flared End Section, 1200 mm, 125 × 25 mm Corrugation	EA
617053	Galvanized Corrugated Steel Pipe Flared End Section, 1350 mm, 125 × 25 mm Corrugation	EA
617054	Galvanized Corrugated Steel Pipe Flared End Section, 1500 mm, 125 × 25 mm Corrugation	EA
617055	Galvanized Corrugated Steel Pipe Flared End Section, 1650 mm, 125 × 25 mm Corrugation	EA
617056	Galvanized Corrugated Steel Pipe Flared End Section, 1800 mm, 125 × 25 mm Corrugation	EA
617057	Galvanized Corrugated Steel Pipe Flared End Section, 1950 mm, 125 × 25 mm Corrugation	EA

617058	Galvanized Corrugated Steel Pipe Flared End Section, 2100 mm, 125 x 25 mm Corrugation	EA
617059	Galvanized Corrugated Steel Pipe Flared End Section, 2250 mm, 125 x 25 mm Corrugation	EA
617060	Galvanized Corrugated Steel Pipe Flared End Section, 2400 mm, 125 x 25 mm Corrugation	EA
617061	Galvanized Corrugated Steel Pipe Flared End Section, 430 x 330 mm, 68 x 13 mm Corrugation	EA
617062	Galvanized Corrugated Steel Pipe Flared End Section, 530 x 380 mm, 68 x 13 mm Corrugation	EA
617063	Galvanized Corrugated Steel Pipe Flared End Section, 610 x 460 mm, 68 x 13 mm Corrugation	EA
617064	Galvanized Corrugated Steel Pipe Flared End Section, 710 x 510 mm, 68 x 13 mm Corrugation	EA
617065	Galvanized Corrugated Steel Pipe Flared End Section, 885 x 610 mm, 68 x 13 mm Corrugation	EA
617066	Galvanized Corrugated Steel Pipe Flared End Section, 1060 x 740 mm, 68 x 13 mm Corrugation	EA
617067	Galvanized Corrugated Steel Pipe Flared End Section, 1240 x 840 mm, 68 x 13 mm Corrugation	EA
617068	Galvanized Corrugated Steel Pipe Flared End Section, 1440 x 970 mm, 68 x 13 mm Corrugation	EA
617069	Galvanized Corrugated Steel Pipe Flared End Section, 1620 x 1100 mm, 68 x 13 mm Corrugation	EA
617070	Galvanized Corrugated Steel Pipe Flared End Section, 1800 x 1200 mm, 68 x 13 mm Corrugation	EA
617071	Galvanized Corrugated Steel Pipe Flared End Section, 1950 x 1320 mm, 68 x 13 mm Corrugation	EA
617072	Galvanized Corrugated Steel Pipe Flared End Section, 2100 x 1450 mm, 68 x 13 mm Corrugation	EA
617073	Galvanized Corrugated Steel Pipe Flared End Section, 1010 x 790 mm, 75 x 25 mm Corrugation	EA
617074	Galvanized Corrugated Steel Pipe Flared End Section, 1160 x 920 mm, 75 x 25 mm Corrugation	EA
617075	Galvanized Corrugated Steel Pipe Flared End Section, 1340 x 1050 mm, 75 x 25 mm Corrugation	EA
617076	Galvanized Corrugated Steel Pipe Flared End Section, 1520 x 1170 mm, 75 x 25 mm Corrugation	EA
617077	Galvanized Corrugated Steel Pipe Flared End Section, 1670 x 1300 mm, 75 x 25 mm Corrugation	EA
617078	Galvanized Corrugated Steel Pipe Flared End Section, 1850 x 1400 mm, 75 x 25 mm Corrugation	EA
617079	Galvanized Corrugated Steel Pipe Flared End Section, 2050 x 1500 mm, 75 x 25 mm Corrugation	EA
617080	Galvanized Corrugated Steel Pipe Flared End Section, 2200 x 1620 mm, 75 x 25 mm Corrugation	EA
617081	Galvanized Corrugated Steel Pipe Flared End Section, 2400 x 1720 mm, 75 x 25 mm Corrugation	EA

617082	Galvanized Corrugated Steel Pipe Flared End Section, 2600 x 1820 mm, 75 x 25 mm Corrugation	EA
617083	Galvanized Corrugated Steel Pipe Flared End Section, 1000 x 790 mm, 125 x 25 mm Corrugation	EA
617084	Galvanized Corrugated Steel Pipe Flared End Section, 1150 x 790 mm, 125 x 25 mm Corrugation	EA
617085	Galvanized Corrugated Steel Pipe Flared End Section, 1340 x 1050 mm, 125 x 25 mm Corrugation	EA
617086	Galvanized Corrugated Steel Pipe Flared End Section, 1520 x 1170 mm, 125 x 25 mm Corrugation	EA
617087	Galvanized Corrugated Steel Pipe Flared End Section, 1670 x 1300 mm, 125 x 25 mm Corrugation	EA
617088	Galvanized Corrugated Steel Pipe Flared End Section, 1850 x 1400 mm, 125 x 25 mm Corrugation	EA
617089	Galvanized Corrugated Steel Pipe Flared End Section, 2050 x 1500 mm, 125 x 13 mm Corrugation	EA
617090	Galvanized Corrugated Steel Pipe Flared End Section, 2200 x 1620 mm, 125 x 13 mm Corrugation	EA
617091	Galvanized Corrugated Steel Pipe Flared End Section, 2400 x 1720 mm, 125 x 13 mm Corrugation	EA
617092	Galvanized Corrugated Steel Pipe Flared End Section, 2600 x 1820 mm, 125 x 13 mm Corrugation	EA
617093	Corrugated Aluminum Pipe Flared End Section, 300 mm, 68 x 13 mm Corrugation	EA
617094	Corrugated Aluminum Pipe Flared End Section, 375 mm, 68 x 13 mm Corrugation	EA
617095	Corrugated Aluminum Pipe Flared End Section, 450 mm, 68 x 13 mm Corrugation	EA
617096	Corrugated Aluminum Pipe Flared End Section, 525 mm, 68 x 13 mm Corrugation	EA
617097	Corrugated Aluminum Pipe Flared End Section, 600 mm, 68 x 13 mm Corrugation	EA
617098	Corrugated Aluminum Pipe Flared End Section, 750 mm, 68 x 13 mm Corrugation	EA
617099	Corrugated Aluminum Pipe Flared End Section, 900 mm, 68 x 13 mm Corrugation	EA
617100	Corrugated Aluminum Pipe Flared End Section, 1050 mm, 68 x 13 mm Corrugation	EA
617101	Corrugated Aluminum Pipe Flared End Section, 1200 mm, 68 x 13 mm Corrugation	EA
617102	Corrugated Aluminum Pipe Flared End Section, 1350 mm, 68 x 13 mm Corrugation	EA
617103	Corrugated Aluminum Pipe Flared End Section, 1500 mm, 68 x 13 mm Corrugation	EA
617104	Corrugated Aluminum Pipe Flared End Section, 1650 mm, 68 x 13 mm Corrugation	EA
617105	Corrugated Aluminum Pipe Flared End Section, 1800 mm, 68 x 13 mm Corrugation	EA

617106	Corrugated Aluminum Pipe Flared End Section, 1950 mm, 68 x 13 mm Corrugation	EA
617107	Corrugated Aluminum Pipe Flared End Section, 2100 mm, 68 x 13 mm Corrugation	EA
617108	Corrugated Aluminum Pipe Flared End Section, 2250 mm, 68 x 13 mm Corrugation	EA
617109	Corrugated Aluminum Pipe Flared End Section, 2400 mm, 68 x 13 mm Corrugation	EA
617110	Corrugated Aluminum Pipe Flared End Section, 900 mm, 75 x 25 mm Corrugation	EA
617111	Corrugated Aluminum Pipe Flared End Section, 1050 mm, 75 x 25 mm Corrugation	EA
617112	Corrugated Aluminum Pipe Flared End Section, 1200 mm, 75 x 25 mm Corrugation	EA
617113	Corrugated Aluminum Pipe Flared End Section, 1350 mm, 75 x 25 mm Corrugation	EA
617114	Corrugated Aluminum Pipe Flared End Section, 1500 mm, 75 x 25 mm Corrugation	EA
617115	Corrugated Aluminum Pipe Flared End Section, 1650 mm, 75 x 25 mm Corrugation	EA
617116	Corrugated Aluminum Pipe Flared End Section, 1800 mm, 75 x 25 mm Corrugation	EA
617117	Corrugated Aluminum Pipe Flared End Section, 1950 mm, 75 x 25 mm Corrugation	EA
617118	Corrugated Aluminum Pipe Flared End Section, 2100 mm, 75 x 25 mm Corrugation	EA
617119	Corrugated Aluminum Pipe Flared End Section, 2250 mm, 75 x 25 mm Corrugation	EA
617120	Corrugated Aluminum Pipe Flared End Section, 2400 mm, 75 x 25 mm Corrugation	EA
617121	Corrugated Aluminum Pipe Flared End Section, 900 mm, 125 x 25 mm Corrugation	EA
617122	Corrugated Aluminum Pipe Flared End Section, 1050 mm, 125 x 25 mm Corrugation	EA
617123	Corrugated Aluminum Pipe Flared End Section, 1200 mm, 125 x 25 mm Corrugation	EA
617124	Corrugated Aluminum Pipe Flared End Section, 1350 mm, 125 x 25 mm Corrugation	EA
617125	Corrugated Aluminum Pipe Flared End Section, 1500 mm, 125 x 25 mm Corrugation	EA
617126	Corrugated Aluminum Pipe Flared End Section, 1650 mm, 125 x 25 mm Corrugation	EA
617127	Corrugated Aluminum Pipe Flared End Section, 1800 mm, 125 x 25 mm Corrugation	EA
617128	Corrugated Aluminum Pipe Flared End Section, 1950 mm, 125 x 25 mm Corrugation	EA
617129	Corrugated Aluminum Pipe Flared End Section, 2100 mm, 125 x 25 mm Corrugation	EA

617130	Corrugated Aluminum Pipe Flared End Section, 2250 mm, 125 × 25 mm Corrugation	EA
617131	Corrugated Aluminum Pipe Flared End Section, 2400 mm, 125 × 25 mm Corrugation	EA
617132	Corrugated Aluminum Pipe Flared End Section, 425 × 325 mm, 68 × 13 mm Corrugation	EA
617133	Corrugated Aluminum Pipe Flared End Section, 525 × 375 mm, 68 × 13 mm Corrugation	EA
617134	Corrugated Aluminum Pipe Flared End Section, 600 × 450 mm, 68 × 13 mm Corrugation	EA
617135	Corrugated Aluminum Pipe Flared End Section, 700 × 500 mm, 68 × 13 mm Corrugation	EA
617136	Corrugated Aluminum Pipe Flared End Section, 875 × 600 mm, 68 × 13 mm Corrugation	EA
617137	Corrugated Aluminum Pipe Flared End Section, 1050 × 725 mm, 68 × 13 mm Corrugation	EA
617138	Corrugated Aluminum Pipe Flared End Section, 1225 × 825 mm, 68 × 13 mm Corrugation	EA
617139	Corrugated Aluminum Pipe Flared End Section, 1425 × 950 mm, 68 × 13 mm Corrugation	EA
617140	Corrugated Aluminum Pipe Flared End Section, 1600 × 1075 mm, 68 × 13 mm Corrugation	EA
617141	Corrugated Aluminum Pipe Flared End Section, 1775 × 1175 mm, 68 × 13 mm Corrugation	EA
617142	Corrugated Aluminum Pipe Flared End Section, 1925 × 1300 mm, 68 × 13 mm Corrugation	EA
617143	Corrugated Aluminum Pipe Flared End Section, 2075 × 1425 mm, 68 × 13 mm Corrugation	EA
617144	Corrugated Aluminum Pipe Flared End Section, 1000 × 775 mm, 75 × 25 mm Corrugation	EA
617145	Corrugated Aluminum Pipe Flared End Section, 1150 × 775 mm, 75 × 25 mm Corrugation	EA
617146	Corrugated Aluminum Pipe Flared End Section, 1325 × 1025 mm, 75 × 25 mm Corrugation	EA
617147	Corrugated Aluminum Pipe Flared End Section, 1500 × 1150 mm, 75 × 25 mm Corrugation	EA
617148	Corrugated Aluminum Pipe Flared End Section, 1650 × 1275 mm, 75 × 25 mm Corrugation	EA
617149	Corrugated Aluminum Pipe Flared End Section, 1825 × 1375 mm, 75 × 25 mm Corrugation	EA
617150	Corrugated Aluminum Pipe Flared End Section, 2025 × 1475 mm, 75 × 25 mm Corrugation	EA
617151	Corrugated Aluminum Pipe Flared End Section, 2175 × 1575 mm, 75 × 25 mm Corrugation	EA
617152	Corrugated Aluminum Pipe Flared End Section, 2375 × 1675 mm, 75 × 25 mm Corrugation	EA
617153	Corrugated Aluminum Pipe Flared End Section, 2575 × 1775 mm, 75 × 25 mm Corrugation	EA

617154	Corrugated Aluminum Pipe Flared End Section, 1000 x 775 mm, 75 x 25 mm Corrugation	EA
617155	Corrugated Aluminum Pipe Flared End Section, 1150 x 775 mm, 125 x 25 mm Corrugation	EA
617156	Corrugated Aluminum Pipe Flared End Section, 1325 x 1025 mm, 125 x 25 mm Corrugation	EA
617157	Corrugated Aluminum Pipe Flared End Section, 1500 x 1150 mm, 125 x 25 mm Corrugation	EA
617158	Corrugated Aluminum Pipe Flared End Section, 1650 x 1275 mm, 125 x 25 mm Corrugation	EA
617159	Corrugated Aluminum Pipe Flared End Section, 1825 x 1375 mm, 125 x 25 mm Corrugation	EA
617160	Corrugated Aluminum Pipe Flared End Section, 2025 x 1475 mm, 125 x 25 mm Corrugation	EA
617161	Corrugated Aluminum Pipe Flared End Section, 2175 x 1575 mm, 125 x 25 mm Corrugation	EA
617162	Corrugated Aluminum Pipe Flared End Section, 2375 x 1675 mm, 125 x 25 mm Corrugation	EA
617163	Corrugated Aluminum Pipe Flared End Section, 2575 x 1775 mm, 125 x 25 mm Corrugation	EA
617164	Reinforced Concrete Flared End Section, 475 x 750 mm	EA
617165	Reinforced Concrete Flared End Section, 350 x 575 mm	EA
617166	Reinforced Concrete Flared End Section, 800 x 1225 mm	EA
617167	Reinforced Concrete Flared End Section, 850 x 1325 mm	EA
617168	Reinforced Concrete Flared End Section, 675 x 1050 mm	EA
617169	Reinforced Concrete Flared End Section, 950 x 1500 mm	EA
617170	Reinforced Concrete Flared End Section, 1075 x 1700 mm	EA
617171	Reinforced Concrete Flared End Section, 725 x 1125 mm	EA
617172	Reinforced Concrete Flared End Section, 1075 x 1700 mm	EA
617173	Reinforced Concrete Flared End Section, 325 x 550 mm	EA
617174	Reinforced Concrete Flared End Section, 600 x 950 mm	EA
617175	Reinforced Concrete Arch Flared End Section, 275 x 450 mm	EA
617176	Reinforced Concrete Flared End Section, 550 x 850 mm	EA
617177	Corrugated Galvanized Steel Pipe Flared End Section, 200 mm	EA
618020	Furnish Timber Piles - Treated, 300 mm	m
618021	Furnish Timber Piles - Treated, 350 mm	m
618022	Furnish Timber Piles - Treated, 400 mm	m
618023	Furnish Timber Piles - Untreated, 300 mm	m

618024	Furnish Timber Piles - Untreated, 350 mm	m
618025	Furnish Timber Piles - Untreated, 400 mm	m
618026	Furnish Timber Test Piles, 300 mm	m
618027	Furnish Timber Test Piles, 350 mm	m
618028	Furnish Timber Test Piles, 400 mm	m
618029	Furnish Timber Test Piles - Treated, 300 mm	m
618030	Furnish Timber Test Piles - Treated, 350 mm	m
618031	Furnish Timber Test Piles - Treated, 400 mm	m
618040	Furnish Cast-In-Place Concrete Piles, 300 mm	m
618041	Furnish Cast-In-Place Concrete Piles, 350 mm	m
618042	Furnish Cast-In-Place Concrete Piles, 400 mm	m
618043	Furnish Cast-In-Place Concrete Piles, 450 mm	m
618044	Furnish Cast-In-Place Concrete Piles, 400 mm, Bituminous Coated	m
618045	Furnish Steel Shell Test Piles, 300 mm	m
618046	Furnish Steel Shell Test Piles, 350 mm	m
618047	Furnish Steel Shell Test Piles, 400 mm	m
618048	Furnish Steel Shell Test Piles, 450 mm	m
618049	Furnish Steel Shell Test Piles, 400 mm, Bituminous Coated	m
618060	Steel H Piles, HP 310 x 79	m
618061	Steel H Piles, HP 310 x 94	m
618062	Steel H Piles, HP 360 x 108	m
618063	Steel H Test Piles, HP 310 x 79	m
618064	Steel H Test Piles, HP 310 x 110	m
618065	Steel H Test Piles, HP 360 x 108	m
618066	Steel H Piles, HP 250 x 62	m
618067	Steel H Test Piles, HP 250 x 62	m
618068	Steel H Test Piles, HP 310 x 94	m
618069	Steel H Piles, HP 310 x 125	m
618070	Steel H Test Piles, HP 310 x 125	m
618080	Furnish Precast Prestressed Concrete Pile, 300 x 300 mm	m

618081	Furnish Precast Prestressed Concrete Pile, 350 × 350 mm	m
618082	Furnish Precast Prestressed Concrete Pile, 400 × 400 mm	m
618083	Furnish Precast Prestressed Concrete Pile, 450 × 450 mm	m
618084	Furnish Precast Prestressed Concrete Pile, 500 × 500 mm	m
618085	Furnish Precast Prestressed Concrete Pile, 600 × 600 mm	m
618090	Furnish Precast Prestressed Concrete Test Pile, 300 × 300 mm	m
618091	Furnish Precast Prestressed Concrete Test Pile, 350 × 350 mm	m
618092	Furnish Precast Prestressed Concrete Test Pile, 400 × 400 mm	m
618093	Furnish Precast Prestressed Concrete Test Pile, 450 × 450 mm	m
618094	Furnish Precast Prestressed Concrete Test Pile, 500 × 500 mm	m
618095	Furnish Precast Prestressed Concrete Test Pile, 600 × 600 mm	m
619005	Install Timber Piles - Treated, 300 mm	m
619006	Install Timber Piles - Treated, 350 mm	m
619007	Install Timber Piles - Treated, 400 mm	m
619008	Install Timber Piles - Untreated, 300 mm	m
619009	Install Timber Piles - Untreated, 350 mm	m
619010	Install Timber Piles - Untreated, 400 mm	m
619011	Install Timber Test Piles - Treated, 300 mm	m
619012	Install Timber Test Piles - Treated, 350 mm	m
619013	Install Timber Test Piles - Treated, 400 mm	m
619014	Install Timber Test Piles - Untreated, 300 mm	m
619015	Install Timber Test Piles - Untreated, 350 mm	m
619016	Install Timber Test Piles - Untreated, 400 mm	m
619020	Install Cast-In-Place Concrete Piles, 300 mm	m
619021	Install Cast-In-Place Concrete Piles, 350 mm	m
619022	Install Cast-In-Place Concrete Piles, 400 mm	m
619023	Install Cast-In-Place Concrete Piles, 450 mm	m

619024	Install Steel Shell Test Piles, 300 mm	m
619025	Install Steel Shell Test Piles, 350 mm	m
619026	Install Steel Shell Test Piles, 400 mm	m
619027	Install Steel Shell Test Piles, 450 mm	m
619040	Install Steel H Piles, HP 310 × 79	m
619041	Install Steel H Piles, HP 310 × 94	m
619042	Install Steel H Piles, HP 360 × 108	m
619043	Install Steel H Test Piles, HP 310 × 79	m
619044	Install Steel H Test Piles, HP 310 × 110	m
619045	Install Steel H Test Piles, HP 360 × 108	m
619046	Install Steel H Piles, HP 250 × 62	m
619047	Install Steel H Test Piles, HP 250 × 62	m
619048	Install Steel H Test Piles, HP 310 × 94	m
619049	Install Steel H Piles, HP 310 × 125	m
619050	Install Steel H Test Piles, HP 310 × 125	m
619060	Install Precast Prestressed Concrete Pile, 300 × 300 mm	m
619061	Install Precast Prestressed Concrete Pile, 350 × 350 mm	m
619062	Install Precast Prestressed Concrete Pile, 400 × 400 mm	m
619063	Install Precast Prestressed Concrete Pile, 450 × 450 mm	m
619064	Install Precast Prestressed Concrete Pile, 500 × 500 mm	m
619065	Install Precast Prestressed Concrete Pile, 600 × 600 mm	m
619066	Install Precast Prestressed Concrete Test Pile, 300 × 300 mm	m
619067	Install Precast Prestressed Concrete Test Pile, 350 × 350 mm	m
619068	Install Precast Prestressed Concrete Test Pile, 400 × 400 mm	m
619069	Install Precast Prestressed Concrete Test Pile, 450 × 450 mm	m
619070	Install Precast Prestressed Concrete Test Pile, 500 × 500 mm	m
619071	Install Precast Prestressed Concrete Test Pile, 600 × 600 mm	m

621020	Timber Sheet Piles - Treated	m <sup>3</sup>
621021	Timber Sheet Piles - Untreated	m <sup>3</sup>
622001	Steel Sheet Piles, PZ 22 (Unprotected)	m <sup>2</sup>
622002	Steel Sheet Piles, PZ 27 (Unprotected)	m <sup>2</sup>
622003	Steel Sheet Piles, PZ 35 (Unprotected)	m <sup>2</sup>
622004	Steel Sheet Piles, PZ 40 (Unprotected)	m <sup>2</sup>
622005	Steel Sheet Piles, PS 31 (Unprotected)	m <sup>2</sup>
622006	Steel Sheet Piles, PS 27.5	m <sup>2</sup>
622007	Steel Sheet Piles, PZ 22	m <sup>2</sup>
622008	Steel Sheet Piles, PZ 27	m <sup>2</sup>
622009	Steel Sheet Piles, PZ 35	m <sup>2</sup>
622010	Steel Sheet Piles, PZ 40	m <sup>2</sup>
622011	Steel Sheet Piles, PS 31	m <sup>2</sup>
622012	Steel Sheet Piles, PSA-23	m <sup>2</sup>
623000	Prestressed Reinforced Concrete Members	L.S.
623001	Prestressed Reinforced Concrete Members, I-Beams	L.S.
623002	Prestressed Reinforced Concrete Members, Box-Beams	L.S.
DIVISION 700 MISCELLANEOUS CONSTRUCTION		
701001	Portland Cement Concrete Gutter, 100 mm	m <sup>2</sup>
701002	Portland Cement Concrete Gutter, 150 mm	m <sup>2</sup>
701003	Portland Cement Concrete Gutter, 200 mm	m <sup>2</sup>
701004	Portland Cement Concrete Valley Gutter, 200 mm	m <sup>2</sup>
701010	Portland Cement Concrete Curb, Type 1	m
701011	Portland Cement Concrete Curb, Type 2	m
701012	Portland Cement Concrete Curb, Type 3	m
701020	Integral Portland Cement Concrete Curb and Gutter, Type 1	m
701021	Integral Portland Cement Concrete Curb and Gutter, Type 2	m
701022	Integral Portland Cement Concrete Curb and Gutter, Type 3	m
701023	Integral Portland Cement Concrete Curb and Gutter, Type 4	m
703001	Portland Cement Concrete Parkway Curb, Type 1	m

703008	Portland Cement Concrete Parkway Curb, Type 1, Modified	m
705001	Portland Cement Concrete Sidewalk, 100 mm	m <sup>2</sup>
705002	Portland Cement Concrete Sidewalk, 150 mm	m <sup>2</sup>
705003	Portland Cement Concrete Sidewalk, 100 mm, Modified	m <sup>2</sup>
705004	Portland Cement Concrete Sidewalk, 150 mm, Modified	m <sup>2</sup>
705005	Portland Cement Concrete Sidewalk, 188 mm	m
705006	Portland Cement Concrete Sidewalk, Variable Depth	m <sup>2</sup>
707001	Corrugated Metal Downspouts, 200 mm	m
707002	Corrugated Metal Downspouts, 250 mm	m
707003	Corrugated Metal Downspouts, 300 mm	m
707004	Corrugated Metal Downspouts, 375 mm	m
707005	Downspout Splash Aprons	EA
707006	Intake Aprons	EA
707007	Intake Basin	EA
707008	Corrugated Metal Downspouts, 450 mm	m
708040	Drainage Inlet, Type 1	EA
708041	Drainage Inlet, Type 2	EA
708042	Drainage Inlet, Type 3	EA
708043	Drainage Inlet, Type 4	EA
708044	Drainage Inlet, Type 5	EA
708100	Manhole, Type 1	EA
708101	Manhole, Type 2	EA
708102	Manhole, Type 3	EA
708103	Manhole, Type 4	EA
708104	Manhole, Type 5	EA
710001	Adjusting and Repairing Existing Drainage Inlet and Manhole (Drainage Inlet)	EA
710002	Adjusting and Repairing Existing Drainage Inlet and Manhole (Manhole)	EA
710003	Adjusting and Repairing Existing Drainage Inlet and Manhole (Manhole), Special	EA

712005	Riprap, R-4	m <sup>2</sup>
712006	Riprap, R-5	m <sup>2</sup>
712007	Riprap, R-6	m <sup>2</sup>
712008	Riprap, R-7	m <sup>2</sup>
712020	Riprap, R-4	t
712021	Riprap, R-5	t
712022	Riprap, R-6	t
712023	Riprap, R-7	t
712030	Presacked Concrete Riprap	m <sup>3</sup>
714003	Ditching	m
715000	Perforated Pipe Underdrains, 100 mm	m
715001	Perforated Pipe Underdrains, 150 mm	m
715002	Perforated Pipe Underdrains, 200 mm	m
715003	Perforated Pipe Underdrains, 250 mm	m
715004	Perforated Pipe Underdrains, 300 mm	m
715005	Perforated Pipe Underdrains, 375 mm	m
715006	Perforated Pipe Underdrains, 100 mm	m
715007	Perforated Pipe Underdrains, 600 mm	m
715008	Perforated Pipe Underdrains, 450 mm	m
716000	Converting Existing Drainage Inlet to Junction Box	EA
717000	Permanent Roadway Drains	m
718000	Roof Drains	m
720004	Bridge Guardrail	m
720005	Steel Rail Element, Straight	m
720006	Steel Rail Element, Curved	m
720007	Galvanized Steel Posts	EA
720008	Galvanized Steel Brackets	EA
720009	Short Wood Breakaway Post, Treated	EA
720010	Treated Wood Block	EA

720012	Block B for Post B and Block C for Post C	EA
720013	End Section (Rounded)	EA
720014	Terminal Connector, Bridge and Barrier	EA
720016	Salvaged Rail Element	m
720017	Salvaged Galvanized Steel Posts	EA
720018	Salvaged Galvanized Steel Brackets	EA
720021	Galvanized Three Beam Terminal Connector, Bridge and Barrier	EA
720022	Galvanized Rail Element, Three Beam	EA
720023	Galvanized Transition Section, Three Beam	EA
720024	Galvanized Steel Post, Three Beam	EA
720025	Galvanized Steel Bracket, Three Beam	EA
720026	Bridge Rail Retrofit, Type 1	m
720027	Bridge Rail Retrofit, Type 2	m
720028	Bridge Rail Retrofit, Type 3	m
720029	Galvanized Rail Element	EA
720030	Galvanized Steel Post, 2.1 m	EA
720031	Galvanized Steel Beam Guardrail (Close Post Spacing)	m
720032	Galvanized Steel Post, 2.4 m	EA
720033	Galvanized W-Beam Offset Block	EA
720034	Galvanized W-Beam Back-Up Plate	EA
720035	Galvanized Three Beam Back-Up Plate	EA
720036	Galvanized Three Beam Offset Block	EA
720037	Long Wood Breakaway Post, Treated	EA
720038	Galvanized Steel Tube	EA
720039	Galvanized Soil Plate	EA
720040	Swaged Cable Assemblage and Related Hardware	EA
720041	Reflectorized Washers	EA
720042	Galvanized Bearing Plate	EA
720050	Galvanized Steel Beam Guardrail, Type 1	m

720051	Galvanized Steel Beam Guardrail, Type 2	m
720052	Galvanized Steel Beam Guardrail, Type 3	m
720053	Guardrail Over Culverts, Type 1	EA
720054	Guardrail Over Culverts, Type 2	EA
720055	Curved Guardrail Section	m
725001	Guardrail-to-Barrier Connection (Exit Type)	EA
725002	Guardrail-to-Barrier Connection, Approach Type 1	EA
725003	Guardrail-to-Barrier Connection, Approach Type 2	EA
726001	End Anchorage	EA
726002	Buried End Section	EA
727000	Right-of-Way Fence	m
727001	Right-of-Way Fence Gate	EA
727002	Barbed Wire Fence	m
727003	Chain-Link Fence, 1.2 m High	m
727004	Chain-Link Fence, 1.8 m High	m
727005	Terminal Posts for 1.2 m Chain-Link Fence	EA
727006	Terminal Posts for 1.8 m Chain-Link Fence	EA
727007	Chain-Link Fence, 2.4 m High	m
727008	Terminal Posts for 2.4 m Chain-Link Fence	EA
727009	Chain-Link Fence, 1.5 m High	m
727010	Terminal Post for 1.5 m Chain-Link Fence	EA
727011	Reset Chain-Link Fence	m
727012	Vehicular Gates	EA
727013	Walk Gates	EA
732002	Topsoil, 150 mm Depth	m <sup>2</sup>
732003	Topsoil, 300 mm Depth	m <sup>2</sup>
733002	Topsoiling, 150 mm Depth	m <sup>2</sup>
733003	Topsoiling, 200 mm Depth	m <sup>2</sup>
733006	Topsoiling, 300 mm Depth	m <sup>2</sup>

734007	Wetland Seeding, Type HM	m <sup>2</sup>
734011	Facultative Wet Blend	m <sup>2</sup>
734012	Refertilization and Liming, Grass Seeding - Dry Ground	m <sup>2</sup>
734013	Permanent Grass Seeding - Dry Ground	m <sup>2</sup>
734014	Permanent Crown Vetch Seeding	m <sup>2</sup>
734015	Permanent Grass Seeding - Wet Ground	m <sup>2</sup>
734016	Permanent Grass Seeding - Subdivision	m <sup>2</sup>
734017	Temporary Grass Seeding - Dry Ground	m <sup>2</sup>
734018	Temporary Grass Seeding - Wet Ground	m <sup>2</sup>
734019	Permanent Grass Seeding - Wet Ground	kg
734020	Temporary Grass Seeding - Wet Ground	kg
735003	Mulching, Soil Reinforcement Mat	m <sup>2</sup>
735006	Mulching, Straw	m <sup>2</sup>
735008	Mulching, Bonded Fiber Matrix Blanket	m <sup>2</sup>
735009	Mulching, Straw-Coconut Fiber Blanket	m <sup>2</sup>
736004	Sodding, Tall Fescue-Blue Grass	m <sup>2</sup>
737000 -	Plantings	EA
737499		
738000	Transplanting	EA
738001	Transplanting - Herbaceous Perennials and Annuals	EA
738002	Transplanting - Evergreen & Deciduous Groundcover	EA
738003	Transplanting - Evergreen & Deciduous Shrubs Less Than 1.2 m	EA
738004	Transplanting - Evergreen & Deciduous Shrubs More Than 1.2 m	EA
738005	Transplanting - Small Deciduous Shade Trees Less Than 2.4 m	EA
738006	Transplanting - Large Deciduous Shade Trees More Than 2.4 m	EA
738007	Transplanting - Small Deciduous Ornamental/Flowering Trees Less Than 1.8 m	EA
738008	Transplanting - Large Deciduous Ornamental/Flowering Trees More Than 1.8 m	EA
738009	Transplanting - Small Evergreen Trees Less Than 2.4 m	EA

738010	Transplanting - Large Evergreen Trees More Than 2.4 m	EA
741001	Tree Removal 151 mm to 279 mm	EA
741002	Tree Removal 280 mm to 379 mm	EA
741003	Tree Removal 380 mm to 479 mm	EA
741004	Tree Removal 480 mm to 639 mm	EA
741005	Tree Removal 640 mm to 789 mm	EA
741006	Tree Removal 790 mm to 939 mm	EA
741007	Tree Removal 940 mm to 1099 mm	EA
741008	Tree Removal 1100 mm to 1249 mm	EA
741009	Tree Removal 1250 mm and above	EA
743001	Arrowpanels, Type A	EA-DY
743002	Arrowpanels, Type B	EA-DY
743003	Arrowpanels, Type C	EA-DY
744001	Conduit Junction Well, Type 1	EA
744002	Conduit Junction Well, Type 2	EA
744003	Conduit Junction Well, Type 3	EA
744004	Conduit Junction Well, Type 4	EA
744005	Conduit Junction Well, Type 5	EA
745001	Conduit Under Existing Pavement, 38 mm	m
745002	Conduit Under Existing Pavement, 50 mm	m
745003	Conduit Under Existing Pavement, 63 mm	m
745004	Galvanized Conduit Under New Pavement or in Sodded Trench, 38 mm	m
745005	Galvanized Conduit Under New Pavement or in Sodded Trench, 50 mm	m
745006	Galvanized Conduit Under New Pavement or in Sodded Trench, 63 mm	m
745009	Galvanized Conduit Under New Pavement or in Sodded Trench, 19 mm (Use Item 745500)	m
745010	Galvanized Conduit Under New Pavement or in Sodded Trench, 75 mm	m
745012	PVC Conduit Under Existing Pavement, 25 mm	m
745014	PVC Conduit Under Existing Pavement, 50 mm	m
745016	PVC Conduit Under Existing Pavement, 75 mm	m

745017	PVC Conduit Under New Pavement or in Sodded Trench, 25 mm	m
745018	PVC Conduit Under New Pavement or in Sodded Trench, 50 mm	m
745019	PVC Conduit Under New Pavement or in Sodded Trench, 75 mm	m
745020	Galvanized Conduit Under New Pavement or in Sodded Trench, 100 mm	m
745021	Galvanized Conduit Under Existing Pavement or in Sodded Trench, 100 mm	m
745022	Galvanized Conduit Under New Pavement or in Sodded Trench, 25 mm	m
745023	Galvanized Conduit Under New Pavement or in Sodded Trench, 19 mm	m
745024	PVC Conduit Under New Pavement or Sodded Trench, 38 mm	m
745025	PVC Conduit Under New Pavement or Sodded Trench, 150 mm	m
745026	PVC Conduit Under New Pavement or in Sodded Trench, 63 mm	m
746001	Pole Base, Type 1	EA
746002	Pole Base, Type 2	EA
746003	Pole Base, Type 2A	EA
746004	Pole Base, Type 2B	EA
746005	Pole Base, Type 3	EA
746006	Pole Base, Type 3A	EA
746007	Pole Base, Type 3B	EA
746008	Pole Base, Type 4	EA
746009	Pole Base, Type 5	EA
746010	Pole Base, Type 6	EA
747001	Cabinet Base	EA
748001	Painting of White or Yellow, 100 mm Line	m
748002	Painting of White or Yellow, 150 mm Line	m
748003	Painting of White or Yellow, Symbol/Legend	m <sup>2</sup>
748008	Painting of White or Yellow, 300 mm Line	m
748014	Permanent Pavement Striping, Alkyd-Thermoplastic, 100 mm	m
748015	Permanent Pavement Striping, Symbol/Legend Alkyd-Thermoplastic	m <sup>2</sup>
748016	Permanent Pavement Striping, Alkyd-Thermoplastic, 200 mm	m
748017	Permanent Pavement Striping, Alkyd-Thermoplastic, 150 mm	m

748018	Painting of White or Yellow, 200 mm Line	m
748019	Temporary Markings, Paint, 100 mm	m
748020	Temporary Markings, Paint, 150 mm	m
748026	Temporary Markings, Paint, Symbol/Legend	m <sup>2</sup>
748027	Permanent Pavement Striping, Alkyd-Thermoplastic, 300 mm	m
748028	Permanent Pavement Striping, Alkyd-Thermoplastic, 100 mm on Hot-Mix Type C	m
748029	Permanent Pavement Striping, Symbol/Legend, Alkyd-Thermoplastic on Hot-Mix Type C	m <sup>2</sup>
748030	Permanent Pavement Striping, Alkyd-Thermoplastic, 100 mm on Open-Graded	m
748031	Permanent Pavement Striping, Symbol/Legend, Alkyd-Thermoplastic on Open-Graded	m <sup>2</sup>
749000	Reinforced Concrete Masonry Sign Foundation	EA
750000	Adjust Water Valve Boxes	EA
751000	Adjust Fire Hydrants	EA
752000	Relocate Fire Hydrants	EA
753000	Adjust Sanitary Sewer Laterals	EA
754000	Adjust Water Services	EA
755000	Hot-Mix, Hot-Laid Bituminous Concrete Curb	m
756000	Sand	t
758000	Removal Existing Portland Cement Concrete Pavement Curb, Sidewalk, Etc.	m <sup>2</sup>
759001	Field Office, Type I	month
759002	Field Office, Type II	month
759003	Field Office, Type III	month
760000	Pavement - Milling, Hot-Mix	m <sup>2</sup> -25 mm
760001	Pavement - Milling, Concrete	m <sup>2</sup> -25 mm
760002	Pavement - Milling, Hot-Mix, Strip Cut	m <sup>2</sup> -25 mm
760003	Pavement - Milling, Hot-Mix, Variable Depth	m <sup>2</sup>
760004	Pavement - Milling, Hot-Mix, 25 mm Depth	m <sup>2</sup>
760005	Pavement - Milling, Hot-Mix, 38 mm Depth	m <sup>2</sup>
760006	Pavement - Milling, Hot-Mix, 50 mm Depth	m <sup>2</sup>

760007	Pavement - Milling, Hot-Mix, 63 mm Depth	m <sup>2</sup>
760008	Pavement - Milling, Hot-Mix, 75 mm Depth	m <sup>2</sup>
760009	Pavement - Milling, Hot-Mix, 89 mm Depth	m <sup>2</sup>
760010	Pavement - Milling, Hot-Mix, 100 mm Depth	m <sup>2</sup>
761001	Butt Joints, Hot-Mix	m <sup>2</sup>
761002	Butt Joints, Concrete	m <sup>2</sup>
762001	Saw Cutting, Hot-Mix	m
762002	Saw Cutting, Concrete, Full Depth	m
762003	Saw Cutting, Concrete, Variable Depth	m
762004	Saw Cutting, Concrete, 50 mm	m
762005	Saw Cutting, Concrete, 75 mm	m
762006	Saw Cutting, Concrete, 100 mm	m
763000	Initial Expense	L.S.