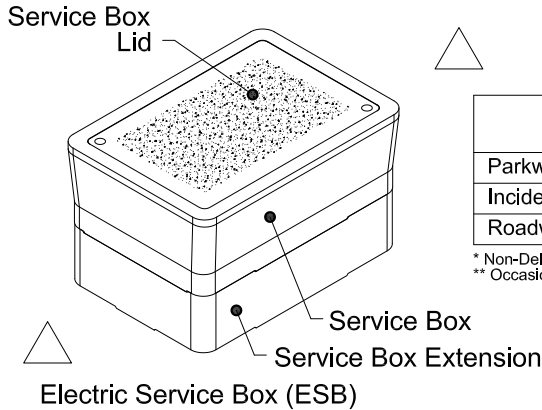


ELECTRICAL SERVICE BOX REQUIREMENTS

Electrical Service Boxes (ESB) are small secondary splice boxes, bottomless (ESB-6 & ESB-7 installed in two vertically stacked sections). These boxes are usually installed in areas not subject to H-20 traffic loading.

The following tabulations shows the size of various concrete ESB's, approved manufacturers Item Number, See UGS-311.1 & UGS-320 for detailed ESB installation details.

Electrical service boxes may also be referred to as "handholes" or "secondary pullboxes" in this or other publications.




Cover Application	Load Category	Cover Rating	Live Load
Parkway (Concrete / Polymer Concrete)	A-8 / Tier 8	10,400	8,000
Incidental Traffic* (Concrete / Polymer Concrete)	H-10 / Tier 15	22,568	8,000
Roadway Traffic (Steel)**	A-16 / Tier 15	22,568	16,000

* Non-Deliberate Light Vehicular Traffic (Sidewalk / Parking lot / Driveway).
 ** Occasional Non-Deliberate Heavy Vehicular Traffic (Sidewalk / Parking lot / Driveway).

Service Box Covers & Cover							
SIZE (W x L x H)	Type	Manufacturer's No.			Stock No.		
		Brooks	J&R	Eisel			
ESB 1 ^a 11"x17"x12" (#3-1/2 Box)	Service Box	36-PBB	E3-1/2-PB	E35FPB	24850		
	Extension	36-PBBE	E3-1/2-12	-	-		
ESB 3 12"x22"x12" (#5 Box)	Service Box	02-PBB	E5-F-PB	E50FPB	24851		
	Extension	02-PBBE	E5-F-12	-	24845		
ESB 6 ^b 17"x30"x24" (12" x 2) (#66 Box)	Service Box	36-MBB	E6-B-PB	E6-B-12EX	24852		
	Extension	36-MBBE	E6-B-12	-	24847		
	Base	-	-	6B BASE	24846		
ESB 7 ^b 24"x36"x24" (14" + 10") (#67 Box)	Service Box	37-MBB	E7-PB	-	-		
	Extension	37-MBBE	E7-10	E7-10EX	-		

Replacement Service Box Covers						
SIZE (W x L x H)	Style	Manufacturer's No.				Stock No.
		Brooks	J&R Concrete	Eisel	Armorcast	
ESB 1 ^a (#3-1/2 Box)	Reinforced Concrete	36-PB-CC233	E3-1/2-C	E35FSPBD	-	24856
	RPM	-	E3-1/2-P	-	-	-
	Steel-Light Traffic	36-PB-SC233	E3-1/2-T	3-1/2F SP BD	-	10011356
ESB 3 (#5 Box)	Reinforced Concrete	02-PB-CC233	E5-F-C	E50FSPBD	-	24857
	RPM	-	E5-F-P	-	-	-
	Steel-Light Traffic	02-PB-SC-233	E5-F-T	-	-	-
ESB 6 (#66 Box)	Reinforced Concrete	66-PB-CC233	E6-B-C	-	-	24854
	RPM	-	E6-B-P	-	A6001947T	24840
	Steel-Light Traffic	66-PB-SC233	E6-B-T	6B SP DB	-	10011355
ESB 7 (#67 Box)	Reinforced Concrete	67-PB-CC233	E7-C	-	-	-
	RPM	-	E7-P	-	-	-
	Steel-Light Traffic	67-PB-SC233	E7-T	-	-	-

Shaded Items  are Obsolete and for reference only.

^a Limited to streetlight use only

^b On working drawings quantity of 1 refers to box & extension. RPU Requires a Min. 24" Box Height; typically two top sections or top section and extension can be used to accommodate 24" Min. See UGS-009, Page 2 for Service Box Dimensions.

REVISION: Updated Tables & Notes; Added Details.

CHECKED BY (ENGINEERING): SJ

DATE: 02/13/15

CHECKED BY (FIELD): DM

PREPARED BY: SJR

APPROVED BY: Chen Mejia

ELECTRICAL SERVICE BOX REQUIREMENTS

REVISION: Updated Tables & Notes; Added Details.

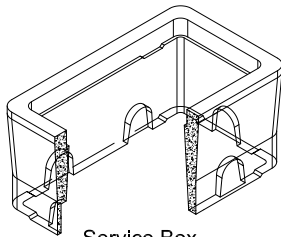
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DATE: 02/13/15

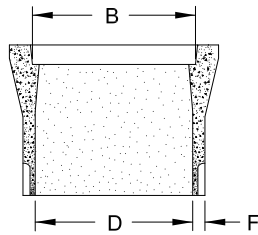
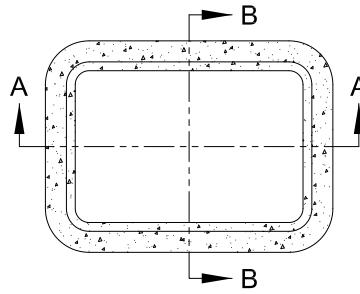
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PREPARED BY: SJR

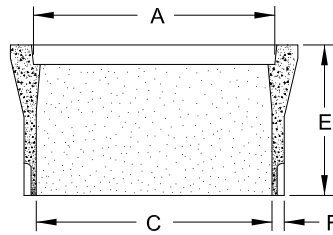
APPROVED BY: *Shen Mejia*



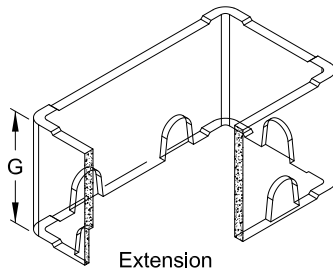
Service Box
(Reinforced Concrete)



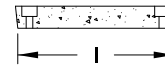
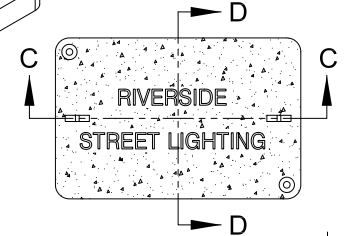
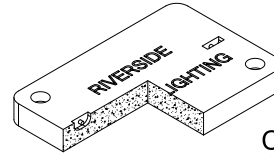
View B-B



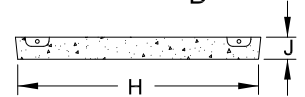
View A-A



Extension

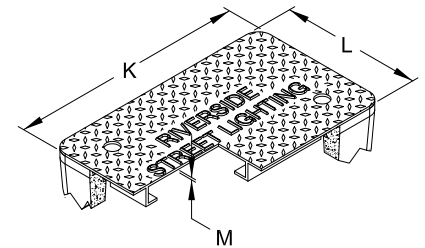


View D-D



View C-C

Reinforced Concrete Cover "Parkway"
(RPU Approved Only, See note 2)



Superimposed A-16 / Tier 15 Steel Boltdown Cover
(Incidental Traffic)

Item No.	A (+1/8 / -0)	B (+1/8 / -0)	C (+1/4 / -0)	D (+1/4 / -0)	E (±1/4)	F (+1/4 / -0)	G (±1/4)	H (+0 / -1/8)	I (+0 / -1/8)	J (+0 / -1/8)	K (Min.)	L (Min.)	M (Min.)
ESB 1 (#3-1/2 Box)	15 7/16	10 1/8	17	10 1/2	12	7/8	12	15 1/4	10	1 3/4	19 1/2	14 1/4	1/4
ESB 3 (#5 Box)	21 1/4	11 3/8	22	12	12	1	12	20 7/8	11	2	24 7/8	15	1/4
ESB 6 (#66 Box)	30 3/8	17 1/2	30	17	12	1 1/4	12	30 1/8	17 1/4	2	34 7/8	22	3/8
ESB 7 (#67 Box)	35 1/2	24	36	24	14	1 1/2	10	35 1/4	23 3/4	3	40	28 1/2	3/8

All Dimensions in Inches

Notes:

1. Top surface of all boxes & covers (Parkway / Superimposed steel for incidental traffic) shall have RPU approved anti-slip surface finish.
2. Covers & box openings are measured (Dimension A, B, H, I) from bottom setting surface (bottom inside draft edge / corner) for compatibility with existing RPU concrete structures.
3. ESB-1 cover shall be marked "RIVERSIDE STREET LIGHTING" for streetlight services; See UGS-050 for details.
4. ESB-3, 6 & 7 shall be marked "RIVERSIDE ELECTRIC" for secondary electrical service points; See UGS-050 for details.
5. RPU approved locking hardware shall be included with covers.
6. Concrete service box covers are for non-traffic loading; polymer concrete & superimposed covers shall be used for "Incidental Traffic" when box may occasionally be driven over (driveway / parking lot). Handholes should not be placed in areas where deliberate vehicle loads are planned.
7. Slight variations may occur between manufacturers' products.