

## II. INVENTORY

### Card Files

*card #10*  
F Drwr 1 Electric Locomotive Detail Parts, style numbers, 8"x5" cards c. 1040 cards; these cards translate Westinghouse Manufacturing & Electric Co. style numbers into BLW card and catalog numbers for specific parts. First set filed by name of part.

" F Drwr 2 Ditto. First set continues; c. 1000 cards. The second set filed by WE&MCo. style number.

*card #16*  
Cd Fle 1 Extra Orders, two file drawers, c. 3000 5"x3" cards. These cards are filed by locomotive construction [both steam and electric] number, give locomotive style and the extra order sales number.

" Cd Fle 2 Overseas Locomotive Sales [steam and electric], two file drawers, c. 2150 5"x3" cards. The first series and largest is filed alphabetically by name of customer giving country, road number, class, construction number, gauge and year. The second series is filed alphabetically by country and has the rest of the information of series one. Where several cards are needed either by customer or country they are filed earliest card first. These cards cover sales from c. 1900 to 1940.

*card #13*  
Cd Fle 3 Index to BLW drawings for parts made in-house and by vendors, two file drawers, c. 2100 6"x4" cards giving sales numbers, locomotive classes, part name, drawing and card numbers, and where appropriate the vendor's name. Filed numerically from 4-4 to 299M-1 and was started c.1942.

" Cd Fle 4 Index to BLW drawings for parts made in-house and by vendors, two file drawers, c. 1700 6"x4" cards giving sales numbers, locomotive classes, part name, drawing and card numbers, and where appropriate the vendor's name. Filed numerically from 303-A-1 to 900-1.

*card #10*  
Cd Fle 5 Electric Locomotive customer and builder cards, c. 1896-1920, three file drawers, c.2960 8"x5" cards [see Appendix 3]. The first file drawer has two-sided customer cards in alphabetical order. The front side has class, weight, sales office, where delivered, and the apportionment of the sales price between BLW and WE&MCo. The reverse side has technical information as well as the order and shipping dates. There are mechanical specifications and a list of electrical equipment.

Drawers two and three have single-sided cards giving construction records for all locomotives built up to the mid-1920's. Starting in 1906 these cards parallel the "Electric Works" volumes kept in the shops [see below]. These cards are organized by motors [a couple of dozen styles from 100v to 500v], pinions, gears, gear cases, controllers, trolleys, circuit breakers, fuse boxes, lightning arresters, switches, and miscellaneous.

Box 55  
12  
Electric Locomotive customer cards, c. 1906 to 1955, c. 1760 8"x5" cards filed alphabetically by purchaser. Successive columns give the following data: construction number, road number, class, memo (sales) number, WE&MCo. number, gauge, motor number, voltage, weight, wheels (diam. and material), date shipped, and "Extras." The latter often traces the subsequent sales of the locomotive; in one case the loco. was "lost at sea" and another loco. had to be built to replace it.

Cd Fle 6  
Cave # 8  
BLW "Card" files, c. 1896-1942, two file drawers, c. 2160 6"x4" cards. These "cards" (there is room for 100 numbers on each) are filed alphabetically by the name of the part name or assembly with each drawing receiving a sequential number. This number is compound: each part -- e.g. arm rest, battery box, bells and gongs -- having from one to two digits; to this is added 00 to 99 on each card.

After 100 drawings on a certain part the suffixes "A", "B", and "C" may be used to provide room for up to 400 drawings of the same type of part. "Card" numbers are used on the construction records and bills of materials thus this file is key to locating drawings.

Cd Fle 7  
Processed?  
or  
missed?  
Parts and parts numbers from outside vendors, c.1946 to 1956, two file drawers, c. 3360 5"x3" cards. These cards are filed alphabetically by name of part and give the name of the outside vendor, the vendor part number, the date, and the number of the corresponding BLW/BLH drawing number. Included left drawer, F to G; right drawer, S to Support assembly.

Cd Fle 8  
Ditto, c.3270 cards. Included left drawer, A to B; right drawer, H to L.

Cd Fle 9  
Ditto, c.2010 cards. Included left drawer, T to Z; right drawer, alphabetical list of BLH and Whitcomb customers.

Cave # 13  
Cd Fle 10  
Ditto, c.3690 cards. Included left drawer, C to E; right drawer, M to R.

VALUE ASSIGNED: \$385.00

"Class and Weight Records"

procc. ?  
?   
Addenda Class and Weight Records -- Electric Locomotives -- B.L.W. 200 pp (9"x11.5"; full leather binding, spine missing) good condit. This volume covers the period from 1896 to 1920 and is indexed by class. Each class starts with number one and the purchaser of each locomotive written down with the year, gauge, voltage, class, motor, and controller numbers. The weights are given (but not in every case) for front trucks, rear trucks, and carrying wheels.

procc. ?  
?   
Addenda Class and Weight Records -- Electric Locomotives -- B.L.W. c. 250pp (9"x11.5"; postbinder, leather covers, spine missing) good condit. Period covered is 1920 to 1942. The organization is the same as the volume above except the division into four sections: storage battery, trolley, gasoline, and "Oil and Diesel Electric."

VALUE ASSIGNED: \$95.00

"Electric Work" volumes

- procc. ?  
Electric Spec  
Loco Specs?  
11 vols = 11 vols
- D-15-10a Electric Work No. 1 1906 300pp (17"x23") gd. condit., first entry 3-22-06 Mammoth Copper Co. 4 2/35 C 78; last entry 8-26-08 Part Carbon Coal Co. \$ 2/8 C 56. Note-- this book parallels Card File No. 5; "engines" used instead of motors.
- D-15-10a Electric Work No. 2 1908 300pp (17"x23") very gd. condit., first entry 8-28-08 Moshannon Coal Mining Co. 4 2/15 C 203; last entry 9-21-11 Quemahoning Coal Co. 4 2/50 C 248. Note-- a person was assigned to each order.
- D-5-1a Electric Work No. 3 1911 300pp (17"x23") gd. condit., first entry 9-25-11, Swift & Co. 4 1/15 C; last entry 2-20-14 Old Benn Mining Co. 4 2/15 C 302-305.
- D-15-10b Electric Work No. 4 1913 [sic] 298 (17"x23") fair condit., first entry 3-2-14 Bud Coal Co. w 2/35 C 155; last entry 5-19-16 Granby Consolidated Mining & Smelting Co. 4 2/50 C 334 & 335.
- D-15-10b Electric Work No. 5 1916 300pp (17"x23") fair condit., first entry 5-11-16 Morococha Mining Co. 4 2/5 C number illegible; last entry 8-13-17 George W. Theiss 4 2/25 C 603 & 604.
- D-15-1b Electric Work No. 6 1917 199pp (17"x23") gd. condit., first entry, 8-17 Page Coal and Coke Co. 4 2/8 C; last entry 11-3-19 Wood Coal Co. 4 2/25 CS.
- D-15-1a Electric Work No. 7 1919 302pp (17"x23") fair condit., first entry 11-3-19 Meadow Fork Coal Co., 4 2/35 C; last entry 10-5-21 Dixie Const. Co. 4 2/35 C.
- D-1-1b Electric Work No. 8 1921 300pp (17"x23") poor condit., first

entry 10-26-21 Lehigh Valley RR. 4 2/50 C 515 & 518; last entry 7-14-25 Healy River Coal Corp. 4 2/12 C 21.

D-15-1a Electric Work No. 9 1925 301pp (17"x23") gd. condit., covers 1925 through 1929 and contains the building sheets for America's first supercharged diesel electric, the 61000, an OE 1000/1 CC completed in May, 1929. Also BLW built 12 4/450 1/4 E 5 & 6 for the Great Northern RR.

D-15-1b Electric Work No. 10 1930 76pp (17"x23") fair condit., first entry 12-6-29 Sydney Thompson (So. Africa) 4 1/5 CS; last entry n.d. Westinghouse for Spain 4 2/35 C. Note--mostly foreign shipments.

D-5-1a Electric Work No. 11 1931 [sic] 126 dual pp (17"x23") fair condit., first entry 12-28-33 Honduras Rosario Mining Co, 4 2/35 636; last entry n.d. Coeur D'Alaine Mines Co., 0-4-0 2/10 C 732. NOTE: p.124a n.d. inserted for NYNHH RR., 4-6-6-4 12/400 EA 1-5.

**VALUE ASSIGNED: \$625.00**

#### Locomotive Tracings and Drawings

NOTE: Because of the enormous size of the BLW/BLH collection and because of the limited time available to inspect all classes of materials, no attempt was made to treat this first set of "electric" tracings and drawings -- or subsequent sets -- in a tracing by tracing, individual manner. A conscientious inspection was made of every drawer containing tracings to ascertain their nature, their condition, and their number. The latter in most cases is approximate and will be so indicated with c., the abbreviation for circa. I shall add comments from time to time about other factors, or occasionally about certain items, that seem to influence the value of the appraisal.

Drawings vary in size from the dimensions of an ordinary 8.5"x11" sheet of paper to a roll which may be 120" long and 36"

high (or wide). The different sizes vary over time within the BLW/BLH organization and among the absorbed entities. Often the corporate size codes are included in the drawing number itself as an integral part or as a prefix or suffix. I try to give dimensions to reflect the way tracings, corporate identity, drawing number, date, updates, and other details appear on the linen sheet. Thus an ordinary sheet of paper becomes an 11 by 8.5 inch drawing; legal size drawing is described as 14"x8.5".

The drawers in which the tracings are housed vary slightly. The interior dimensions go from 38 inches wide and 27.5 inches deep to 43 inches wide and 32 inches deep. Some of the drawers have internal separating walls (2 inches plus high) to divide the drawers into two, four, six, and eight sections respectively.

*Cave #15*  
B-4-16 224 to 233C, 14.25"x10.75", c. 810 tracings on linen in four sections, fair to poor condition, 10/1900 to 7/05. Covers leaf springs, driving wheels and boxes, trucks, gear wheels, etc.

**VALUE ASSIGNED: \$325.00**

B-4-17 234 to 246C, 14.24"x 10.75", c. 1235 tracings on linen in four sections, fair to poor condition, 7/05 to 9/11. Covers electrical power transmission systems: electric motor truck box, truck motor suspension, driving clutch ring, head light, trolley pole socket, etc.

**VALUE ASSIGNED: \$457.00**

B-4-18 248-1 to 253B, 14.25"x10.75", c. 1215 tracings on linen in four sections, good to fair condition, 5/03 to 8/11. Covers cable reel clutch, cab seat, sand box, bumper, frame center pin, motor cover, etc. One of the tracings, 8-3-11 is for a large, class 8 4/100 E 10 locomotive.

**VALUE ASSIGNED: \$410.00**

B-4-19 254A to 290A, 14.25"x10.75", c. 1235 tracings on linen in four sections, mixed condition -- 1/2 good, 1/2 fair + poor -- 11/08 to 5/14. Covers electric driving box brass, electric motor hanger, back bumper, electric diverter rack, etc.

VALUE ASSIGNED: \$370.00

B-4-20 292-1 to 326C, 14.25"x10.75", c. 1175 tracings on linen in four sections, good to fair condition, 10/11 to 11/12. Covers cross tie, controller, driving axle, diverter ventilator, coupler, etc. Another 8 4/100 E 16 (10-5-11) tracing indicates that at least seven of these large locomotives were under construction in 1911.

VALUE ASSIGNED: \$388.00

*Car # 19*  
B-5-1 327 to 347C, 14.25"x10.75", c. 955 tracings on linen with a small percentage of xerox copies in four sections, good to fair condition, c. 1909 to 1916. Covers electric truck suspension, cab seat, bumper, draw bar, brake head, etc.

VALUE ASSIGNED: \$287.00

*Car # 19*  
B-5-2 349 to 361, 14.25"x10.75", c. 190 tracings on linen in two of four sections, good to fair condition, c. 1904 to 1916. Covers electric gusset plate, bell stand, etc.

VALUE ASSIGNED: \$63.00

*Car # 6*  
B-3-8 362-1 to 363A-100, 33.5"x14.75", c. 240 tracings on linen in two, horizontal piles, good to fair condition, 7/07 to 1/13. Covers electric frames. Frame #1385 was patented 10-1-12.

VALUE ASSIGNED: \$116.00

*"*  
B-3-9 364 to 365A-100, various sizes, c. 170 tracings on linen in one pile, fair to poor condition, 12/08 to 12/17. Covers electric frames. Drawing # 365-100 (34"x21.5") is the erecting drawing for the 4 2/35 C 110 locomotive.

VALUE ASSIGNED: \$97.00

*"*  
B-3-16 461A-94 to 498-100, 23.5"x18.25", c. 270 tracings on linen in two vertical sections, good condition, 10/07 to 11/09. Covers electric sand box, cab, driving brake, etc. One of the locomotives built in 1909 was the first of its class: 12 2/600 1/4CC and delivered to the NYNHH RR the next year.

**VALUE ASSIGNED: \$143.00**

*Cave # 6*  
B-3-17-8 499-1 to 521-100, 23.5"x18.25", c. 595 tracings on linen in four vertical sections of the two drawers, good condition with some pressure sensitive tape used for repairs on edges, c. 9/99 to 6/20. Covers electric erecting, cab, storage battery loco. gear boxes, motor frame, front bumper, draw casting, etc. **NOTE:** In 499-1 to 500 there are 192 electric erecting drawings giving a full side and top view. Some such as 499-64 also gives an end view of a new class: 8 4/175 E 1.

**VALUE ASSIGNED: \$931.00**

B-3-19 521A-1 to 522A-100, 23.5"x18.25", c. 235 tracings on linen in two vertical sections, good condition, 12/06 to 2/09. Covers frames and trucks. This drawer documents a brisk business in motorized trucks alone for street and interurban railway companies.

**VALUE ASSIGNED: \$155.00**

*Cave # 17*  
E-6-3 523-1 to 524A-100, 24"x18.5", c. 390 tracings on linen in two vertical sections, condition good to fair, 2/00 to 4/12. Covers electric trucks and truck brake work. In 1907 and other times the draftsmen were required to register the time it took to make the original drawing and to make a tracing of it. In seven tracings selected at random the lowest total hours noted were 12.5 and the highest 66.5 -- the latter over a week of work at ten hours per day! This drawer also shows the large number of motorized trucks sold separate from locomotives.

**VALUE ASSIGNED: \$207.00**

E-6-2 526-27 to 547A-29, 24"x18.5", c. 420 tracings on linen in two vertical sections, good to fair condition, 10/09 to 12/21. Covers electric driving boxes, cab vestibule arrangement, driving brake work, etc. There is a preliminary tracing giving side, top, and end views of a battery powered locomotive. In 1909 two new classes were introduced: 12 4/300 1/4 CC 1 and 12 2/600 1/4 CC 1.

**VALUE ASSIGNED: \$265.00**

E-6-4 547A-44 to 558-96, 24"x18.5", c. 205 tracings on linen in two vertical sections, fair to poor condition, 9/11 (retraced 2/30) to 12/25. Covers electric driving brake work, electrical equipment system, etc. Many of the original tracings are being retraced in the 1930's showing how much wear the drawings of standard parts of these locomotives received.

**VALUE ASSIGNED: \$68.00**

*Cave #6*  
B-3-10 650-1 to 699A-88, 21.5"x14", c. 490 tracings on linen in two vertical sections, good to fair condition, 4/03 to 4/10 (retraced 3/44). Covers sand box work, driving brake, electric frames, bevel gears, etc.

**VALUE ASSIGNED: \$220.00**

*Cave #19*  
B-3-25 703-75 to 741A-44, 21.5"x14.5", c. 375 tracings on linen in two vertical sections, good to fair condition, 3/10 to 9/40. Covers Electric frame, bumper, cab windows, steel tired wheels, etc.

**VALUE ASSIGNED: \$199.00**

*Cave #13*  
B-4-9 746-4 [steam] to 769A-66, 21.25"x14.5", c. 505 tracings on linen in two vertical sections, fair condition, 9/12 to 2/24. Covers cylinder heads [steam], boiler test plate, electric sand box, cylinder oil pipe connection, etc. This is a rare leftover from the donations given by B-HCo. to the Pennsylvania Historical & Museum Commission starting in 1975.

**VALUE ASSIGNED: \$328.00**

B-4-10 770-1 to 799-100, 21.25"x14.5", c. 485 tracings on linen in two vertical sections, fair to poor condition, 5/17 to 8/18. Covers wedge and gib specifications, bumpers, etc.

**VALUE ASSIGNED: \$146.00**

*(?)*  
B-4-1 800-15 to 815A-100, 21.25"x14.5", c. 430 tracings on linen in two vertical sections, fair condition, 6/17 to 12/25. Covers driving brake, front and back bumpers, sand box, etc.

**VALUE ASSIGNED: \$129.00**

*(?)*  
B-4-2 817A67 to 844A-100, 21.25"x14.5", c. 320 tracings on linen in two vertical sections, fair condition, 8/17 to 5/20. Covers electric cable reel drive shaft, driving brake work, motor truck, etc.

**VALUE ASSIGNED: \$96.00**

*(?)*  
B-4-3 845-71 to 865A-94, 21.25"x14.5", c. 450 tracings on linen in two vertical sections, fair to poor condition, 11/21 to 12/27. Covers wedge & gib (4" frame width), back bumper, motor suspension, electric worm gear, etc.



**VALUE ASSIGNED: \$135.00**

B-4-4 866-1 to 892A-100, 21.25"x14.5", c. 440 tracings on linen in two vertical sections, fair condition, 1/24 to 6/26. Covers electric truck gusset plate, truck bolster, motor cover, etc.

**VALUE ASSIGNED: \$132.00**

B-4-5 894A-34 to 914A-100, 21.25"x14.5", c. 505 tracings on linen in two vertical sections, fair to poor condition, 3/27 to 4/29. Covers wedge & gib (3" frame), driving brake work, cross ties, etc. Included is tracing 56030 (18"x10") giving the outline of 2500 hp diesel electric, n.d. (c.1927-28); it is two 0-8-8-0 locos. hooked together for an overall length of 86 feet.

**VALUE ASSIGNED: \$152.00**

B-3-21 916A-10 to 940-103 [sic], 21.5"x14.5", c.610 tracings on linen in two vertical sections, good condition, 10/28 to 2/42. Covers motor end frame, driving brake work, driving wheel center, specifications for various wheels, cleats for motor leads, etc. Includes a drawing for the 0-4-4-0 1000/l diesel electric switcher, class numbers 70 to 120 built in 1941-42.

*Cave #19*

**VALUE ASSIGNED: \$275.00**

B-3-22 943 to 956A-129 [sic], 21.5"x14.5", c.335 tracings on linen in two vertical sections, good to fair condition, 7/29 to 3/36. Covers hydraulic test arrangement, driving brake work, bumper, etc.

**VALUE ASSIGNED: \$134.00**

B-3-23-4 957-22 to 977A-40, 21.5"x14.5", c. 650 tracings on linen in three vertical sections in two drawers, good to fair condition (some pencil drawings), 3/36 to 6/40. Covers bumper back, battery box woodwork, cab seat, frame cover plates, etc. Included were a proposed 0-4-4-0 DE locomotive on 2-16-37 and a new class: 8 DE 530/l E 1 to 3.

"

**VALUE ASSIGNED: \$195.00**

E-6-1 1002A-94 to 1006A-97, 24"x18.5", c.195 tracings on linen in two vertical sections, good to fair condition, 6/12 to 8/13. Covers electric truck gusset plate, bumpers, truck brake beam, etc. An electric motor truck designed for Westinghouse motor #306 B was part of an order to the Imperial Government Railways of Japan in 1913.

*Cave #17*

**VALUE ASSIGNED: \$103.00**

B-4-12 1007-1 to 1019-100, 24"x18.25", c. 245 tracings on linen in two vertical sections, good to fair condition, 7/13 to 5/18. Covers truck center bearing, end frame clearance, brake work, etc.

*Cave # 15*

**VALUE ASSIGNED: \$98.00**

B-4-11 1023-3 to 1042A-100, 24"x18.25", c. 560 tracings on linen in two vertical sections, fair condition, 8/13 to 11/19. Covers truck transom, truck outline, truck center bearing for which a patent was applied for, storage battery crate, etc.

*Cave # 15*

**VALUE ASSIGNED: \$185.00**

B-3-1 1045-2 to 1053A-115 [sic], 24"x18.5", c. 310 tracings on linen in two vertical sections, fair condition, c.1920 to 6/36. Covers electric truck gusset plate, driving box, bumper, etc.

*Cave # 13*

**VALUE ASSIGNED: \$102.00**

B-3-2 1054A-112 to 1069-66, 24"x18.5", c. 257 tracings on linen in two vertical sections, fair condition, 8/09 to 5/37. Covers motor truck box [the tracing for this was retraced in 1937 and again in 1948], bumper, driving box, sand box, etc. A new trolley class was established in 1921 when 15 locomotives were sold to the Chilean State Railways: a 12 6/280 DD.

**VALUE ASSIGNED: \$85.00**

B-3-3 1077A-125 to 1089A-36, 24"x18.5", c. 525 tracings on linen in two vertical sections, fair condition, 2/23 to 3/39. Covers electric truck wheel, sand box, truck center pin [for a derrick car], etc.

**VALUE ASSIGNED: \$173.00**

B-3-4 1093-140 to 1104A-100, 24"x18.5", c. 272 tracings on linen in two vertical sections, good to fair condition, 3/26 to 6/41. Covers electric storage battery, sand box, number plate, window sash, etc.

**VALUE ASSIGNED: \$108.00**

B-3-5 1105-101 to 1111A, 24"x18.5", c. 350 tracings on linen in two vertical sections, fair condition, 1927 to 4/30. Covers cab window, truck equalizer beam, storage battery crate, etc.

**VALUE ASSIGNED: \$116.00**