

# Pullman Library & Railway Equipment Archives Fulfillment Process

Illinois Railway Museum, Union, IL

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[www.pullmanlibrary.org](http://www.pullmanlibrary.org)

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# IMPORTANT INFORMATION !

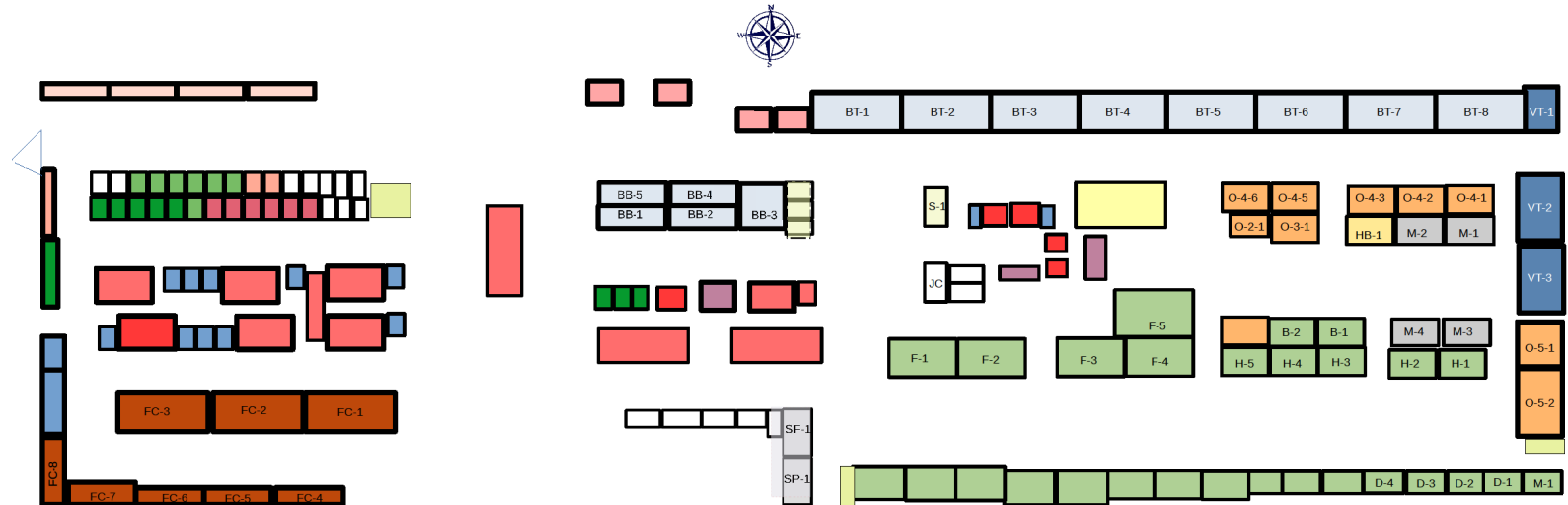
- The Library's Email is [irmpulllib@gmail.com](mailto:irmpulllib@gmail.com) or to me personally at [cz17@comcast.net](mailto:cz17@comcast.net) or [drgw18@gmail.com](mailto:drgw18@gmail.com)
- The urls shown in this presentation will be available in **handouts** and online at [www.pullmanlibrary.org](http://www.pullmanlibrary.org)
- The bulk of the collection is from 1912 to 1965. We have lots of outliers, but that's the core.

# Receive Request

- See <http://www.pullmanlibrary.org/orderinfo.htm> for the order process, and information needed (also a ***handout – Library Order Process***)
  - Note that the collection content & scanned lists are always out of date!
- Requests that come directly from our core customers: railroads, museums, restorers, private car owners, authors, clinicians, researchers, model manufacturers, model builders, lawyers, etc.
- Requests that come indirectly: photos (captions, credits), publication references (this is the reason we request copies of publications when our information is used), on-line forums (PCL, STMFC, specific RR groups, etc.), forwarded references, “Nicked” and other “back door” schemes, etc.

# The Library

A "Map" helps, but it's over 5,000 square feet. And you'll need a decoder ring and Scooby Snacks



MANUFACTURER	MEDIA & ASSETS			
THE BUDD COMPANY	DRAWING LISTS	DRAWINGS (BOXED) - BB	DRAWINGS (TUBED) - BT	PHOTOGRAPHS
	RESEARCH & TESTS			
HASKELL & BARKER CAR COMPANY	DRAWING LISTS	DRAWINGS	PHOTOGRAPHS	FREE STANDING MACHINES
MAPS	CSXT	MISC.		
OSGOOD BRADLEY CAR COMPANY	DRAWING LISTS	DRAWINGS (FLAT)	DRAWINGS (TUBED)	PHOTOGRAPHS
PULLMAN CAR & MANUFACTURING and/or PULLMAN-STANDARD	DOCUMENTATION	DRAWING LISTS	DRAWING REGISTERS	DRAWINGS (FLAT)
	FREIGHT CAR DOCUMENTS	GLASS PLATE NEGATIVES	MARKETING & ADS	PHOTOGRAPHS
	SPECIFICATIONS			
STANDARD MOTOR TRUCK				
STANDARD STEEL CAR COMPANY	FREIGHT CAR DRAWINGS	PASSENGER CAR DRAWINGS		
MISC. DOCUMENTS				
MISC. DRAWINGS	ISAACSON IRON WORKS	MISC. RAILROADS	POWER BALLASTER	ROAD DIVISION
MISC. IMAGES	PULLMAN-STANDARD PASSENGER CAR	TRAILMOBILE NEGATIVES		
VENDORS	STANDARD MOTOR TRUCK			
LIBRARY	ADMINISTRATION FILES	FREE STANDING MACHINES	INTERNAL FILES	SUPPLIES
	WORK STATIONS	WORK SURFACES	SIGNALS	CATALOGS
	ROW/MOW/ATLAS/ENGINEERING	ELECTRIC DISTRIBUTION/POWER	RAILWAY AGE	BOOKS
	VENDORS	ADMINISTRATION FILES	CHICAGO TRANSPORTATION	

PREFIX	DESCRIPTION
A-	P-S A Size Freight & Passenger
B-	P-S B-Size
C-	P-S C Size
D-	P-S D Size
E-	P-S E-Size
F-	P-S F-Size
H-	P-S H-Size
T-	P-S T-Size
BB-	Budd Boxes
BT-	Budd Tubes
FC-	Freight Car Contracts & Correspondence
HB-	Haskell & Barker
JC-	Johnson Collection
M-	Maps
O-1	Osgood Bradley 1-series
O-2	Osgood Bradley 2-series
O-3	Osgood Bradley 3-series
O-4	Osgood Bradley 4-series
O-5	Osgood Bradley 5-series
P-	Photos & Negatives
S-	Signals
SD-	Specifications & Drawing Lists
SF-	Standard Steel Car Freight
SK-	P-S Sketches
SP-	Standard Steel Passenger
VT-	Vendor Tubes

# Actual Sample Request: SAL order (specifically Sun Lounge)

We are looking at getting the plans for several Seaboard Air Line Pullman built passenger cars for a project. I have the Plan and Lot numbers, we need interior, side elevations, underbody, cross section etc. What is the website for getting the plans again? Also, about how much does a set cost?

My on-line searching seems to be coming up short.



# First Step - Paperwork

The bulk of the collection is owned by Bombardier (Alstom); and they have requirements (mainly to protect themselves from legal & competitor entanglements).

- Create (or amend an existing) License. The License is free, and it simply lays out the base project details.
- Create (or verify & amend as necessary) the Customer Record. This simply provides demographic information (name, phone, address) to allow us to contact you.
- Prices “around” Pullman Technologies 1982 levels (we usually sell at lower prices).

# Second Step – Verify Lot & Plan

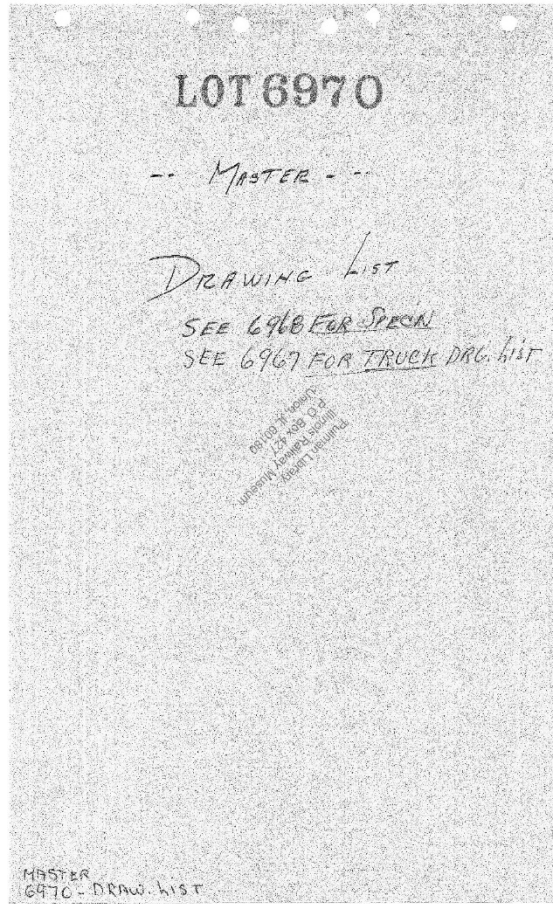
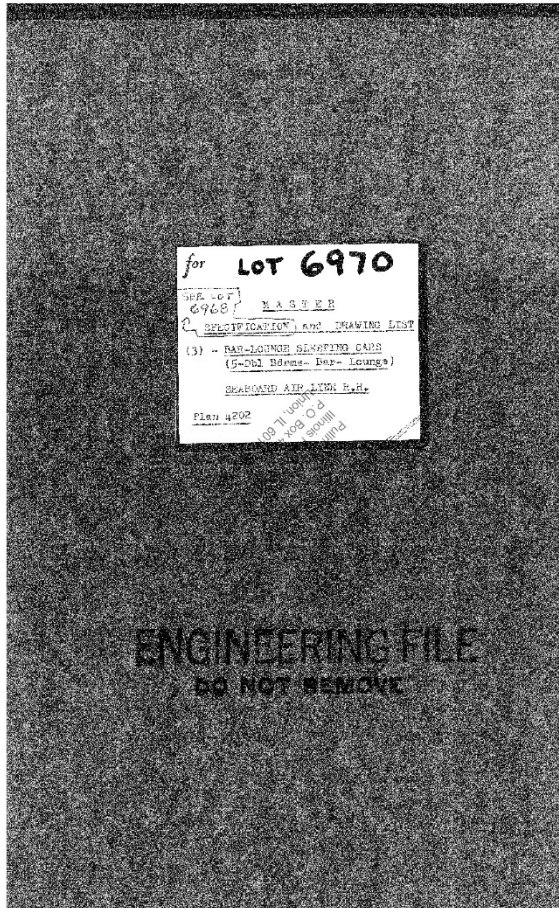
- Books
  - Randall's Pullman Library, Streamliner Cars & Passenger Car Annuals
  - Wayner's Car Names Numbers & Consists, Complete Roster of Heavyweight Passenger Cars
- Google
  - Enter car name, railroad, builder & include Lot & Plan
    - SAL sun lounge hollywood beach Pullman lot plan
- Spreadsheet "Databases (sic)"
  - CCR – Tom Madden's Pullman (*Steel, Operated by*) Cars Databases
  - Lightweight Cars Spreadsheet (see **handout** for URL – out of date)
  - Internal (to Library) Spreadsheets (see **handout – Pullman Construction** for URL)
  - Eric Neubauer's Databases (see **handout**)
- Check Previous Projects FIRST!!

# From Verification Process – Find Lot Specification & Drawing List

- The Drawing List is not always bound with the Lot – Pullman did things differently at times, possibilities include:
  - Each type of car has its own Lot & Drawing List.
  - Each type of car has its own Specification, Drawing Lists in a “Master Spec” folder.
  - Each type of car has its own Plan’s Drawing List within a single Lot.
  - All types of cars are in a single Drawing List within a single Lot.
  - Check trucks! There are times they are in a separate Lot.
- The Specification(s) and Drawing List(s) must be taken apart, scanned, rebound, refiled



# Specification & Drawing List



3 SLEEPER LOUNGE CARS  
S.A.L.

**DRAWING LIST** LOT 6970 PLAN 4202 GROUP FRAMING

PAGE 1 OF

ISSUED	REISSUED	Per Car	Per Lot					
5/6/55								
ITEM	DRAWING NO.	SIZE	STANDARD	RELEASE #1	TITLE	BILLS OF MATERIAL	Per Car	Per Lot
1					<b>UNDERFRAME</b>			
2					Underframe Arrangement		1	3
3								
* 4	118-W-58	B			Draft Sill	B.M. 302-302B-303-304-305-308	2	6
5								
* 6	137-F-34	D			Center End Sill	B.M. 350-350A-351-352-353-354-354A/601R	2	6
7								
* 8	155-A-46	A			Floor Beam Section	B.M. 342		Ref.
9								
* 10	224-G-2	G			Buffer Wing	Assy. 605R 601L	1	3
11								
* 12	227-G-52	G			Body End Sill	B.M. 320-321 601R 602L	1	3
13								
* 14	112-B-65				Dummy End Sill	B.M. 330-331 602-R 601L	1	3
15								
16					False Floor Sheets - S.S.			
17								
18					Dummy End Beam	B.M. 335 601R 601L	1	3
19								
* 20	409-D-7	B			Gross Bearer and Separator	B.M. 340		Ref.
21								
* 22	409-D-8	C			Floor Beam	B.M. 342		Ref.
23								
24					Floor Beam over Trucks	B.M. 342		Ref.
25								

FORM 33 SPL. 705 THE PULLMAN PRESS, CHICAGO, U.S.A.

# Locate Selected Drawings in Drawing List

Lot 6970 PLAN 4202 GROUP FRAMING S.A.L. 3 - Sleeper Lounge Cars

ISSUED	REISSUED	Per Car	Per Lot
120-H-22	B		
146-F-11	A		
111-E-95	B		
420-D-4	A		
112-E-96	A		
120-H-23	C		
118-H-3	E		
120-H-81	A		
139-A-89	B	75	225
140-T-75	A	132	396
134-C-12	D	1	3
See Roof Arrang.			

Lot 6970 PLAN 4202 GROUP EQUIPMENT S.A.L. 3 Cars

ISSUED	REISSUED	Per Car	Per Lot
145-F-100	A		
238-C-21	A	1	3
157-A-27	A	2	6
136-T-32	A	1	3
136-T-32	A	1	3
156-A-39	D	2	6
144-T-59	B	2	6
127-A-21	A	2	6
142-A-45	A	5	15
158-A-75	A	4	12
106-A-3	Q	2	6
405-D-72	A	1	3

- Note each Drawing Number – in every Drawing List
- Hand off note to others to verify drawings
- Create Estimate (See **handout**) Price List at: <https://www.pullmanlibrary.org/Price%20List.pdf>

# Process Order

- Find, Pull, Scan, Verify, Annotate, Edit & File Drawings
- Create folders with drawings, images, restrictions policy, license\*, PDFs, file list
- Create invoice & send to customer
- Receive check, mark invoice paid, file in office, send to customer\*, file in Library
- Print & Ship (if needed – not recommended, much higher cost)
- Send to Secure Download Cloud – Send link for download to customer

Swell! Except....

What They REALLY Wanted was a Budd Car!!

“That’s exactly what I asked for, but not what I wanted!”

- Different materials
- Same/similar/different volumes
- End result: rather than Lot & Plan it is \*usually\* Job Number & Car name or number (Plan \*MAY\* be also available, but that is only applied to cars the Pullman Co. operated or maintained – and is not part of a search when dealing with Budd equipment – BUT it can provide a P-S Floor Plan for a Budd (or AC&F) car))



Job 9659-112 Plan 9533

# Find the Drawing List

- Not quite as simple as with Pullman-Standard Lots – the Budd information is never that simple!
- The indexed Budd Drawing Lists must be consulted. Note the suffix in the Job Number (PPCC-CON = classification number (product series (PP), classification number (CC), contract number (CON)) , that and the railroad reporting marks are critical in finding the lists.
- Once located it must be kept in mind...the Budd Drawing Lists are seldom complete. There are main sub-assembly drawings that act as a Bill of Materials listing drawings within that sub-assembly. Not a big concern for modelers as the main sub-assembly level is generally enough.
- Lots of parts are really 2 drawings in one – they are mirror images of a part on the other side of the car, and instructions on use are in the drawings



# Budd Drawing Lists

## not always easy on the eyes!

EM O.	DESCRIPTION OF DRAWINGS TO BE RELEASED	PRINCIPAL DWG. NO.	DRAFTSMAN	DWG. START	EST. DWG. FIN.	EST. HRS. TO FIN.	REL. TO P.L.	REL. NO.	REL. DATE	ACT. HRS.	REMARKS
	EQUIPMENT LAYOUT	B-42-02458									
5	PLENUM ARRANGEMENT - "B" END	T-88-29833						1815-D	1/24/47	3/1/47	
1	PLENUM ARRANGEMENT - "A" END	T-88-29834						2013-D	6/1/47	6/1/47	
0	MAIN DIST. DUCT. - "B" END	T-88-29837						1042	2/23/48	2/23/48	
1	"A" END	T-88-33126						1965-D	4/14/47	4/14/47	
2	E	B-88-38770						1500-D	7/26/46	11/11/47	was 30053
3	E "B" END	B-88-38771						1311-D	12-12-46	12/12	was 26257-23877
4	EXHAUST DUCT. - "A" END	T-88-33127						1945-D	4/14/47	4/14/47	was 29540
5	INTAKE DUCT. - "B" END	T-88-36161						0471-D	11-11-46	11/11/46	was 26039/40
6	INTAKE DUCT. - "A" END	T-88-29839						1911-D	3/24/47	3/24/47	
7	PLENUM ACCESS DOOR	B-88-29830						1381-D	11-11-46	11/11/46	
8	RECIRCULATING AIR GRILLE	B-88						1500-D	11/11/46	11/11/46	
9	THERMOSTAT INSTALLATION	T-88									
0	BAGGAGE VENT ARRANGEMENT	T-88									
1	RETURN AIR DUCT.	T-88									
2	EMERGENCY AIR INTAKE	T-88-28750									
3	FLOOR HEAT RADIATION & GUARDS	T-89-13533						1815-D	2/10/47	3/1/47	
4	SIGNAL VALVE INSTALL. "B" END	D-81-05117						0100-D	5-7-46	7/4/46	was 81-4624
5	SIGNAL VALVE INSTALL. "A" END	D-81-0									
6	CONDUCTORS VALVE "B" END	D-81-05297						1230-D	1/15	1/13/46	was 4582
7	CONDUCTORS VALVE "A" END	D-81-0									
8	RETAINING VALVE INSTALLATION	D-81-04556						1235-D	11-10-46	12/10	
9	WINDSHIELD WIPER-PIPING INSTAL.	T-66-41898						2044-D	4/1/48	2/1/48	
0	WINDSHIELD WIPER INSTALLATION	T-66-09312						3172-D	1/27/48	1/27/48	
1	TOILET PIPING	B-62-09582						1491-D	1/24/47	1/24/47	
2	Bedroom #1 PIPING	B-62-09584									CHANGING FROM 13533
3	"#2 PIPING	B-62-09585									"
4	Dormitory PIPING	B-62-09586									"
5	BEDROOM PIPING	T-79-0									
6	DORMITORY PIPING	T-79-0									
7	WATER COOLER PIPING	T-62-0									
8	AUXILIARY WATER TANK	T-91-2									
9	HEAT CONTROL ARRANGEMENT	E-5K-21549						1066-D	1/14/46	1/17	
	MULTIVENT INSTALLATION	A-88-32487						1230-D	2/20/47	4/1/47	

### INTERIOR

INTERIOR LOCATION DWG.	D42-02395
CLOSE OFF ASSY & INSTALL. IN BEDROOM A+C	B21-50328
ENCLOSURE WRECKING TOOL CASE	D21-52516
STAIRWAY TO DOME SECTION	T21-42670
PARTIN BETWEEN REG. LVR. & TOILET	D21-43725
PARTIN BETWEEN BEDROOM A & LOCKER	E21-43713
PARTIN UNIT TOILET (TRANSV.)	T21-43714
PARTIN HEADER BETWEEN BEDROOMS	B21-43715
PARTIN FOLDING BETWEEN BEDROOMS	B21-43716
PARTIN UNIT - TOILET - LONG.	T21-43673
PARTIN BETWEEN TOILET & BEDROOM LOCKER	D21-43687
PARTIN UNIT - TOILET - TRANSV.	T21-43719
PARTIN UNIT - WINDSHIELD LOCKERS	B21-43720
PARTIN FACE OF REGULATOR LVR & TOILET	B21-43724
PARTIN BETWEEN BEDROOM B & C	E21-43626
PARTIN FACE OF LVR BETWEEN BERTHS B&C & B,R	D21-43726
PARTIN UNIT TOILET LONG. IN DRAWING ROOM	T21-43728
PARTIN BETWEEN BEDROOM & DRAWING ROOM	D21-43729
PARTIN BETWEEN BUFFET AREA & AISLE	T21-43731
PARTIN HEADER BETWEEN BEDROOMS B & C	B21-43669
PARTIN BETWEEN SEATS - BUFFET AREA	D21-43730
PARTIN BETWEEN DRY STORAGE & AISLE	D21-43734
LOCKER - BERTH SUPPORT - PORTER'S ROOM	B21-43674
LOCKER - FOLDING - PORTER'S ROOM	T21-43707
PARTIN BETWEEN DRY ROOM & AISLE	B21-43730
LOCKER IN BEDROOM A	D21-43711
LOCKER IN DRAWING ROOM D	E21-43681
UPPER BERTH ALCOVE IN BEDROOM B	E21-43740
CLOSE OFF ASSY & INSTALL. IN BEDROOM B	D21-50329
HEADER IN DRAWING ROOM	A21-43737
HEADER OVER DOWNWAY	E21-43738
CLOSE OFF ASSY - BERTH MECHANISM	D21-43739
PIPE GUARD ABOVE DOOR IN DRY ROOM D	F21-51897
FLOOR APPOINTMENTS	D25-09559
DOOR - SIDE ENTRANCE	T40-19603
DOOR - SIDE ENTRANCE	T40-19604

ORDER NO. 9659-019, 020, 021 R.R. C.B. 10

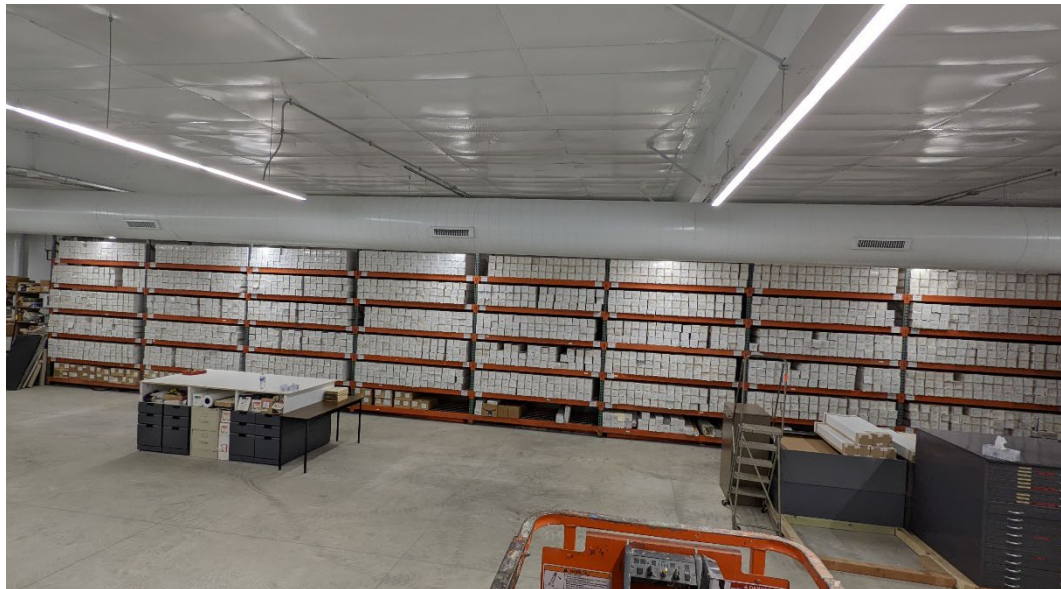
P. O. Box 427  
 Illinois Railway Museum  
 Union, IL 60480

# Budd Drawings

- Can be HUGE - some well over 30' long.
- May be missing due to a fire at Red Lion that destroyed many (especially of pre-war cars)
- Can be extremely confusing, Budd changed their numbering in mid-stream (about the same time P-S & ACF did) and suddenly, the letter indicating the largest drawings (nominally 3' x 5') was now the SMALLEST at 9" x 12".
- On the other hand, the naming standard was very handy! (see ***handout – Budd Drawing Nomenclature***)
- Budd drawings often more informative than the respective P-S drawings

# Process the Order

- Once the Drawing Numbers have been located, then the estimate is created, and the drawing pick list is handed off.
- The Budd drawings are organized now by part classification number and drawing number. Some drawings in each classification may have numbers that duplicate numbers in another classification (i.e. T42-01234 & D42-01234 – NOT the same drawing! The size character (here, T & D) is all that differentiates these)





# Budd Processing... continued

- Verify that the drawings exist & we have them
- Find, pull, locate drawing, scan, repack, & file all drawings
- Create an invoice
- Create folder, send to cloud/print, package, inform customer, receive check, ship



# Standard Steel Car

- These basically follow the Pullman/Pullman-Standard process...in theory. Eric's database can be very useful as it often shows the General Assembly drawing number for a given car, which provides a range of sorts. We also have this number in our internal spreadsheets. They overlap but there are holes in both.
- For Standard Steel – we need the approximate year & railroad. No Lot or Order as typically SSC didn't put the Lot on the drawings. We have no Drawing Lists or Specifications for Standard Steel Car (some are in Harrisburg).
- Once we get the railroad, approximate year, and type of drawing, we check the scanned drawings (many SSC freight & some passenger drawings have been scanned) and then the remaining ~1000 tubes.
- Once found, processing returns to “normal” – although if from a tube, we now will scan every drawing in that tube, process it, and file the tube.

# Osgood Bradley / Worcester

- Osgood Bradley was part of the Standard Steel conglomerate and was merged in with SSC (and into P-S) in 1932-34. After those dates, the cars (and busses) had Pullman-Standard Lot numbers and often have OB drawing lists as well.
- For cars built earlier than 1934 we check our internal databases, the OB Lot Lists, and the document drawers for the OB drawing lists.
- Once the Drawing List is found and Drawing Numbers identified, go to the relevant “size” drawers (first digit of the OB drawing number) and process “normally”
- Many OB drawings are EXTREMELY fragile!!
- Worcester produced many P-S passenger cars before the production stopped and went to Hammond – some drawings are duplicated in the P-S drawing collection.

# Osgood Bradley Drawing List

CO-9100  
 NEW YORK CENTRAL  
 30-STEEL SUBURBAN COACHES

W. D. G. list 220

Pullman Library  
 Illinois Railway Museum  
 P.O. Box 427  
 Union, IL 60180

Pullman Library  
 Illinois Railway Museum  
 P.O. Box 427  
 Union, IL 60180

Drawing List

C.O. 9100	30(70'-4") Steel Suburban Coaches - New York Central R.P. Co.
5913	5" letters
5976	Seats - side
5977	Buffer and draft gear
5979	Wiring and conduit
5980	Finish - interior at end
5981	Finish - interior
5986	Brake and equipment
5988	Frame - roof with ventilator assembly
5992	Underframe
5993	Piping - steam heat
5997	Suspension - "Gould" Generator
50101	Cross section - 70 ft. suburban coach
50106	Saloon - switchboard cabinet
50110	Coach - 70'-4" Vestibuled Suburban
50111	Platform and body bolster
50114	Gear - draft and buffing - Wagh
50120	Side frame, suburban coach

9

List Of Foreign Prints on C. O. 9100

O. M. Edwards Company Inc. (Cont'd.)		
Trap Door Catch #42-22R	A-2362	18962
Door Buffer	A-2351	
Hinge for Design No. 4 Door	A-2101	18966
Pivot Bracket L.R.	49-4	18965
" " R.H.	49-3	18964
Adjusting Bracket 49-1 R.H.	A-2243	18961
" " 49-2 L.H.	A-2244	18959
Trap Door Lock	A-2045	28504
<u>Forged Steel Wheel Company</u>		
33" Rolled Steel Wheel	W-13	16945
<u>Garland Ventilator Company</u>		
Garland Ventilator	315-B	25475
<u>Gould Car Lighting Corporation</u>		
Machine Regulator BD-11-B	15209	25474
Lamp Regulator Type T	15222	25475
Wiring Diagram - Regulator	52446	25476
BEX Car Lighting Generator	15192	25473
<u>Gould Coupler Company</u>		
Spring Seat	2919-A	23947
Lever Nut	2929-A	23520
Spring	3021	23418
Generator (Outline - Type BB)	5887	
Spring Seat Plate	7560-D	
Part 8 Tension Rod (46" Overall)	7564-F	
Spring Seat	8309-A	
Tension Rod Lever Nut	8306-B	
Tension Spring	8307-A	
Outer Spring Seat	8465	
Part #7 Safety Chain	8634-H	23924
Spring Seat Outer	3055-A	23819
Tension Rod Part #3	2379-D	23820
Spring Seat Plate	2160-A	
<u>Gould Storage Battery Company</u>		
Battery 11-Pl. Paste with Glass Sep.	B-16400	25225
<u>Henry Giessel Company</u>		
Water Cooler - Part Diagram	8/2/26	25632
Sanitary Water Cooler	693-C	25097
<u>Hale &amp; Kilburn Company</u>		
41 1/2" V. No. 197 Walkover Seat	12490-A	25272
41 1/2" V. No. 197 " "	12492-A	25271
72" Longitudinal Seats	1249C	25274
Pedestal #197-P-10	10417	18583
Floor Plate 197-P-8 1/2-X	12051-BA	23770
Wall Plate #197-W-11	12174-BA	24305

# Middleton Car Company & Standard Motor Truck

- Part of Standard Steel Car conglomerate
- MCC production was mostly for export and industrial applications (with a plant in Brazil as well as in Pennsylvania)
- Standard Motor Truck production was mostly for transit applications
- Processing basically follows the SSC steps
- MCC about 250 tubes, SMT about the same (plus drawers in the flat file cabinets)
- Basically, unindexed, multiple drawing sizes, number ranges.
- Drawings were numbered sequentially with no regard to size, so a given drawing could be in several tubal number ranges.

# AC&F Cars

- While some have Plans associated, these are cars that were operated or maintained by Pullman Co (with the Plan # assigned by P-S).
- It is also possible that P-S modified or altered the car for a new private or railroad owner. (We have multiple versions of drawings for Budd cars as a result of P-S working on them for Amtrak or Autotrain, along with the original variants.)
- \*IF\* a Plan is associated, it is possible we have a Floor Plan drawing for it, but more likely it would reside in the Newberry Library collection
- OTW – call National Museum of Transportation (NMoT) in St. Louis. NMoT also has CSC/GSC Drawings on microfilm (casting companies: trucks, frames, etc.) (We have a growing collection of CSC/GSC/GSI & ASF drawings
  - See *handout*

# Betterment, Rebuilds and Air Conditioning

- While it is often said that “Pullman” rebuilt cars in the late 30 and 40s, installed air conditioning in cars in the 30s and created “Betterment” cars (such as several of the TOWER series), it is critical in understand which “Pullman” is referenced.
- Pullman Car & Manufacturing was split from The Pullman Co. in 1924, and in 1932 it became Pullman-Standard (after merging the Standard Steel Car conglomerate). The Pullman Co. was divested in 1948 after the antitrust lawsuits brought by the Federal Government.
- Both P-S & Pullman Co. did air condition cars. But...the Pullman Library has drawings from P-S, and very few from The Pullman Co. (of which many went to the Newberry Library). If a car was modified by P-S, there is a possibility of having a Lot & Drawing list associated, and therefore drawings that can be accessed at the Pullman Library.
- P-S would have air-conditioned railroad owned & operated cars along with large Lots of PCo owned cars. PCo would have converted Pullman owned/operated cars, along with some Railroad owned cars.

# Pullman Library & Railroad Equipment Archives

**Thanks for attending!!**  
**Questions ?**



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[www.pullmanlibrary.org](http://www.pullmanlibrary.org)



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