

No. 115

ENGINEER  
OFFICERS  
USAFFE

No. 115

No. 115

DECLASSIFIED  
Authority NND 883078

ENGINEER

OFFICER

LICENSURE  
UNITED STATES

DECLASSIFIED  
Authority NND 883078

No. 115

GENERAL HEADQUARTERS  
UNITED STATES ARMY FORCES, PACIFIC  
OFFICE OF THE CHIEF ENGINEER

APO 500  
28 October 1946

SUBJECT: Status of Engineer personnel commissioned in the Philippines after 7 December 1941.

TO : The Adjutant General, Washington 25, D. C.

THROUGH: Commanding General, U.S. Army Forces Western Pacific, APO 707.

1. It is understood that the families of certain personnel, commissioned as Engineer officers in the Philippine Islands after the outbreak of war and subsequently killed, have been encountering difficulty in establishing the status of employment and commission due to loss of official records, lack of witnesses, etc.

2. When war broke, I was on duty in Manila as Engineer, U. S. Army Forces Far East. We were direly short of personnel and resources of all types. I took energetic measures to recruit the services of all possible technical personnel, especially from the American and Allied mining engineer personnel throughout the Philippines, employed them as construction or demolition supervisors, and also arranged for the temporary commissioning of many of them, principally as 1st and 2nd Lieutenants, in the Corps of Engineers.

3. These men did outstanding work during the operations on Luzon from Lingayen Gulf and Legaspi, to the withdrawal to and defense on Bataan and Corregidor. They undertook vital construction and defense missions and were particularly valuable on an extensive demolition program which, by the destruction of vital communication routes, bridges, etc., effectively delayed the enemy advance and destroyed critical facilities to prevent their utilization by the enemy. Many of these individuals were killed during the final operations on Bataan or subsequently in prison camps. Their efforts were invaluable and merit full recognition by our Government.

4. Unfortunately, most of the records pertaining to their services and commissioning, have been lost, making it difficult for their next of kin to establish just claims for remuneration for their services and subsequent allowances. As a possible reference, I inclose herewith a roster I prepared on 11 March 1942 just prior to my departure from Bataan with General Douglas MacArthur, which indicates the status and assignment of U.S. Army Engineer Officers in the Philippines as of that date. The designation "Temporary" indicates those officers, other than Regular Army on Reserve, who had been so commissioned in the ranks indicated as of that date.

5. Copies of this roster were previously furnished by me to the Commanding General, U.S. Army Forces in the Far East in Manila about February or March 1945 for the Recovered Personnel Section.

/s/ Hugh J. Casey  
/t/ HUGH J. CASEY  
Major General, C.E.  
Chief Engineer

1 Incl:  
Roster of Engr Officers (in trip.)

CERTIFIED TRUE COPY:

/s/ M. Keith  
/t/ M. KEITH  
Capt CAC

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ENGINEER, USAFFE

Advance CP, Bataan

11 March 1942

U. S. ARMY OFFICERS ON DUTY WITH ENGINEER HEADQUARTERS AND UNITS.

A. USAFFE, ENGINEER

1. Headquarters

Brig, General Hugh J. Casey, CE, USAFFE Engineer  
Lt. Colonel Narciso L. Manzano, PS (CE), Exec & Personnel  
Major Albert J. Kircher, FA (Res) Construction  
Major Lawrence A. W. Bosworth, CAC, Fort Mills  
Major William A. Gay, CE, Operations & Training  
Capt. Thomas H. Delamore, CE, Asst Operations & Training  
1st Lt. William C. Ramme, CE, Intelligence & Supply  
WO Joseph Knopping, CE, Construction

2. Special Duty and Detached Service

Major Harold E. Eads, CE (RES) FEAF  
Capt Ralph McGuire, Temporary, DS, Spec Mission  
2nd Lt Charles J. Cushing, Temporary, DS, Spec Mission

C. DEPARTMENT ENGINEER  
B. DEPARTMENT ENGINEER

1. Administration and Supervision

Colonel Henry H. Stickney, CE, Dept Engr  
Major John D. McPherson, Jr., CE (RES) Adm & Finance  
Major Maximiano P. Janairo, PS (CE), DC, C of E, Phil Army  
Capt George L. Wood, AC (RES), Mess & Supply

2. Construction and Inspection

Lt Colonel Wendell W. Fertig, CE(Res) Chief, Const  
Major Harry L. Barr, Temporary, Tunnels, Bataan  
Capt Brewster G. Gallup, CE (Res), Gun Installations  
2nd Lt John M. McAnerny, CE(Res) Gun Installations  
1st Lt Mort Kellog, Temporary, Saw Mill  
1st Lt Gerald E Worthington, Temporary, Quarry  
1st Lt Donald D. Loomis, Temporary, Saw Mill  
Capt Leslie G. Gilbert, CE(Res) Airfield, Mariveles  
Capt Melvin W. Evans CE (Res) Inspections  
Capt La Monte T. Clark, Temporary, Labor Company  
1st Lt. Richard A. Keasy, CE (Res) Inspection  
1st Lt. Keith Madill, Temporary, Misc Construction  
1st Lt Walter E. Stone, Temporary, Misc Construction  
Capt Ross G. McClure, QM(CE) Surplus  
1st Lt. Harry Buchanan, Temporary, Missing

3. Supply and Transportation

Lt Colonel Roscoe Benham, PE (CE) Chief, Supply Service  
Major Arnold A. Beetcher, CE(RES) Statistics  
Major Christopher L. Bruns, Temporary, Mess  
Major Robert Hill, Temporary, Utilities  
2nd Lt Harold L. Mowder, Temporary, Adm & Finance  
1st Lt Orman W. Casey, Inf (Res) Phil Engr Depot  
2nd Lt Erhard Sjoblom, CE (Res) Phil Engr Depot  
Capt Harold T. Gewald, Temporary, Transportation  
Capt. Geo. H. Miller, Temporary, Transportation

4. Fort Mills

Lt Colonel Lloyd E. Mielenz, CE, Defense Engr  
Major Robert B. Lothrop, CE, Fortification & Military Works  
Capt John Keevan, Temporary, Fortification & Military Works  
1st Lt Seaton Foley, Temporary, Construction  
Captain Curtis, William M., Supply & Transp.  
1st Lt Ralph M. Blythe, Temporary, Trans.  
1st Lt. Jack M. Hinkson, Temporary, Supply

4. Fort Mills (con't)  
1st Lt. Homer T. Hutchinson, Temporary, Tunnels  
Capt. Dwight E. Gribben, Temporary, Special Projects  
Capt. Ronald O. Pigg, Temporary, Design  
Major Clarence E. Maynard, CE (Res) Map Reproduction  
1st Lt. Hersel E. Philippe, Temporary, Map Reproduction  
2nd Lt. Robert W. Nourse, CE (Res) Agent Finance

C. I. CORPS

1. Headquarters  
Colonel Harry A. Skerry, CE, Corps Engr  
Colonel A. W. Parker, QMC, Post Construction & Utilities  
Capt. G. M. Hatch, Jr., Post Construction & Utilities  
Major Steven Malevich, CE (Res) Executive  
Capt. Gerald Hoffman, CE (Res) Construction  
1st Lt. Clyde A. Huffstielar, Temporary, Personnel  
1st Lt. Joe T. McIntosh, CE (Res) Supply  
2nd Lt. James H. Duff, Temporary, Operation & Training
2. Corps Engineer Dump  
1st Lt. Philip E. Wright, Temporary
3. Subsectors  
a. South Subsector  
Major Harold Cogswell, Temporary, Subsector Engr.  
Capt. Ralph S. Fralick, CE (Res) Coast Patrol  
1st Lt. Thomas Griffin, CE (Res) Instr. 1st Const. Bn  
b. West Subsector  
1st Lt. Robert P. Powell, CE (Res) Subsector Engr
4. Engineer Units  
a. 1st Engr Bn (PA)  
1st Lt Edward F. McDaniels, Temporary, Instructor  
1st Lt. Ward B. Meek, CE (Res) Instructor  
b. 11th Engr Bn (PA)  
1st Lt. Moren V. Anderson, Temporary, Instructor  
c. 71st Engr Bn (PA) (with Labor Bn attached)  
Major Clarence Bidgood, CE, Bn Comdr  
1st Lt. John A. Hamer, CE (Res) Co. Comdr  
1st Lt. Hugh A. Derrick, CE (Res) Executive  
1st Lt. James H. Hare, CE (Res) Co. Comdr  
1st Lt. J. E. Fyfe, Temporary, Operation & Training  
1st Lt. Otis F. Morgan, CE (Res) Co. Comdr  
1st Lt. Theodore L. Pflueger, CE (Res) Co. Off  
1st Lt. James Stewart, CE (Res) Co. Off  
1st Lt. James R. Wells, Temporary, Co. Comdr  
2nd Lt. Karl Sillman, Temporary, Co. Off.  
2nd Lt. George A. Gallagher, Temporary, Co. Off.  
2nd Lt. Vincent J. Mick, Temporary, Co. Off.  
2nd Lt. Charles Henry Smith, Temporary, Co. Off.  
2nd Lt. Jerome Arthur Gordon, Temporary, Co. Off.  
2nd Lt. Albert L. Johnson, Temporary, Co. Off.  
2nd Lt. Ernie M. Feller, Temporary, Co. Off.  
2nd Lt. Clarence A. Rutz, Temporary, Co. Off.  
2nd Lt. Howard G. Morton, Temporary, Co. Off.  
2nd Lt. Santo S. Trifilo, Temporary, Co. Off.  
2nd Lt. Victor M. Witman, Temporary, Co. Off.  
d. 91st Engr Bn (PA)  
Capt Robert J. Duncan, Temporary, Divn Engr  
1st Lt. Walter E. Burnett, CE (Res) Instructor

D. II CORPS

1. Headquarters  
Major Wm C. Chenoweth, CE, Corps Engr  
Major Barton A. Barrett, Temporary, Intelligence  
Capt Timothy E. Robinson, Executive  
1st Lt. Donald W. Morrill, CE(Res) Information

D. II CORPS

1. Headquarters (con't)  
1st Lt. Wm V. Tarbet, CE (Res) Supply  
1st Lt. John H. Shark, Temporary  
2nd Lt. John L. Kiernan, Jr., Temporary, Adjutant
2. Engineer Units
  - a. 2nd Engr Bn (PA)  
1st Lt. Charles R. Seitz, CE(Res) Instructor
  - b. 21st Engr Bn (PA)  
Capt Louis P. Bartholmees, Temporary, Instructor  
1st Lt. Richard H. Burr, CE(Res) Instructor
  - c. 31st Engr Bn (PA)  
1st Lt. Burt Griffin, CE(Res) Instructor
  - d. 41st Engr Bn (PA)  
1st Lt. Henry Harris, CE(Res) Instructor  
1st Lt. Murl R. Schrock, Temporary, Instructor
  - e. 51st Engr Bn (PA)  
1st Lt. Robert C. Silhavy, CE(Res) Instructor
  - f. 201st Engr Bn (PA)  
Major Harry O. Fisher, CE(Res) Comdg  
1st Lt. Dick Winicker, Temporary  
1st Lt. Lloyd H. Kelsey, Temporary  
1st Lt. Fred S. Whiteneck, Temporary  
1st Lt. William F. Trogstad, Temporary  
1st Lt. Eugeno P. Boyt, CE (Res)  
1st Lt. Vincent Clerk, Temporary  
1st Lt. Damon B. Byfield, Temporary  
1st Lt. George R. Johnson, Temporary  
1st Lt. Warren A. Remsnider, CE (Res)  
2nd Lt. George D. Couch, Temporary  
2nd Lt. Julian W. Adams, FA (Temp)
  - g. 202nd Engr Bn (PA)  
Capt Mitchell Major, Temporary, Comdg  
Capt Hans C. Hornsostel, Temporary, CO  
1st Lt. Leonard H. Rackmil, Temporary  
1st Lt. Robert H. Sherk, Temporary  
1st Lt. Campbell M. Middleton, Temporary  
1st Lt. Arthur J. McMahon, Temporary  
1st Lt. Homer Martin, Temporary  
1st Lt. Norbert S. McKenna, Temporary  
1st Lt. Ernest W. Meek, Temporary  
1st Lt. James Winicker, Temporary  
1st Lt. Walker L. Northly, Temporary

E. 803d ENGR BN (AVN) (SEP)

1. Bn Headquarters  
Major Frank E. Fries, CE, CO  
Capt. James D. Richardson, CE Exec  
1st Lt. Gilbert Radcliff, CE, Supply  
1st Lt. James L. Leggett, CE (Res) Adjutant  
1st Lt. Wm B. Thomas, CE (Res) Engineer  
2nd Lt. Sidney Angus, Temporary, Personnel
2. Hq Company  
Capt. Pedter W. Reynolds, CE (Res) CO  
1st Lt. John E. Morvick, CE (Res) Co. Off  
1st Lt. Everett J. Carney, CE (Res) Co. Off  
2nd Lt. Samuel A. Goldblith, CE (Res) Co Off
3. Company "A"  
Capt Edmund P. Zbikowski, CE (Res) CO.  
1st Lt. David B. Bartlett, CE (Res) Co Off  
1st Lt. Robert D. Montgomery, (CE) (Res) Co Off

E. 803d ENGR BN (AVN) (SEP)

3. Company "A" (con't)  
2nd Lt. Robert J. Russell, CE (Res) Co. Off
4. Company "B"  
Capt Herbert V. Ingersoll, CE (Res) Co  
1st Lt. James R. Oppenheim, CE(Res) Co. Off  
1st Lt. John, H. Windschub, CE (Res) Co. Off  
2nd Lt. Walter H. Farrell, CE (Res) Co. Off
5. Company "C"  
Capt Robert J. Chandler, CE, CO  
1st Lt. Hugh K. Fraser, CE (Res) Co Off  
1st Lt. Dumont C. Williams, Temporary, Co Off  
2nd Lt. Ralph Gibbs, Temporary, Co. Off.

F. 14th ENGRS (PS)

Major Frederick G. Saint, CE, Bn Comdr  
Major Campbell H. Snyder, CE, Executive  
Captain John F. Pre snell, Jr., CE, Bn S-4 and CO, Hq Co  
Captain Charles M. Dampwolf, CE (Res) CO, Co A.  
Captain Homer L. Jones, CE (Res) CO, Co B  
Captain Allison L. Hartman, CE (RES) Bn S-1  
Captain Ace E. Faulkner, CE (Res) Bn S-2 and S-3  
Captain Paul R. Gregory, CE (Res) CO, Co C  
1st Lt. Elton W. Roberts, Temporary, Motor Transport Office  
1st Lt. Roberts S. Kramer, CE, Plat Comdr Co. C  
1st Lt. Thomas D. Crabtree, Temporary, Comdr of Cov, La  
1st Lt. Robert P. Pierpont, CE, Flat Comdr Co. B  
1st Lt. James J. Kraus, CE (Res) Pln Comdr Co. B  
1st Lt. Edmond E. Jennings, CE, (Res) Personnel O  
1st Lt. Robert C. Robbins, CE (Res) Pln Comdr Co. B  
1st Lt. Eugene L. Jorgenson, CE (Res) Pln Comdr Co. C  
2nd Lt. James D. Lynch, CE(Res) Pln Comdr Co. A  
2nd Lt. Joseph F. Smith, CE (Res) Pln Comdr Co. A  
2nd Lt. George A. Ragusini, Temporary

G. VISAYAS-MINDANAO FORCE

1. Headquarters  
Major Donald W. Sawtelle, CAC, Supply  
Captain Fritz L. Ree, Temporary  
Captain R. D. Winne, Temporary  
Captain Robert Sly, CE (Res) Airfields  
1st Lt. Charles R. Wyatt, CE (Res) Airfields  
1st Lt. Sidney Greer, GAC (Res), Airfields  
1st Lt. John H. Newsome, Temporary  
1st Lt. Irvine C. Spette, Temporary
- a. 61st Engr Bn (PA)  
1st Lt. Thomas N. Powell, Jr., CE (Res) Instructor
- b. 81st Engr Bn (PA)  
1st Lt. John D. Stuckenberg, CE (Res) Instructor
- c. 101st Engr Bn (PA)  
1st Lt. Ross I. Miller, CE (Res) Instructor

CERTIFIED TRUE COPY:

/s/ M. Keith  
/t/ M. KEITH  
Capt CAC

A TRUE COPY:  
(7 July '49)

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Authority NND 883078

H. H. BECK  
Chief, Inv Sec  
Inv Br, AGRD

71110

ORGANIZATIONAL ENGINEER EQUIPMENT AND SUPPLIES AUTHORIZED FOR HEADQUARTER  
AND SERVICE COMPANY, ENGINEER BATTALION

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HQ. & SERVICE CO., ENGINEER BATTALION  
(Officers - 5 -- Enlisted Men -- 120)

- 1 Set - Blacksmith, supplementary Engr., consisting of:
- 1 - Bag, canvas, coal, 2-bushel
  - 12 - Blade, hacksaw, 12", 14-teeth
  - 1 - Brace, ratchet, 10" sweep
  - 1 - Chest, blacksmith, Engr.
  - 1 - Chisel, cape, 1/4" bit, 3/4" octagon, 7-1/2" long
  - 1 - Clipper, bolt, cap. 1/2" bolts
  - 5 - Lbs., Compound, welding, in 5-lbs. can
  - 1 - Drill, chain
  - 1 - Drill, post, hand operated, with chuck to take 1/2" straight shank drills, to drill to center of 12" circle, cap. to drill holes up to 7/8" diam. Weight approximately 60 lbs.
  - 1 - Drills, twist, bit stock, 9/32", 11/32", 13/32", 15/32", 9/16", 5/8", 11/16" and 13/16", set of 8, in canvas roll
  - 1 - Set of 11 Drills, twist, for post drill, 1/2" straight shank, length approximately 6", 9/32", 11/32", 13/32", 15/32", 17/32", 19/32", 21/32", 23/32", 25/32", 27/32" and 29/32", in canvas roll
  - 1 - File, flat, smooth, 12"
  - 1 - File, half round, bastard, 12"
  - 1 - File, mill, second cut, 8"
  - 1 - File, round, bastard, 12"
  - 1 - Frame, hacksaw, adjustable, 8 to 12 inch blades
  - 1 - Hammer, set, 1" face, 1-lb. head, handled
  - 1 - Hammer, turning, 2-lb., handled
  - 2 - Handle, chisel, hot or cold, 18"
  - 1 - Handle, hammer, farriers, 14"
  - 2 - Handle, hammer, machinists, 18"
  - 1 - Handle, sledge, 31-1/2" (cut from 36")
  - 2 - Lbs., Nuts, hexagon, R.H. thread, U.S. standard, 3/8"
  - 5 - Lbs., Nuts, hexagon, R.H. thread, U.S. standard, 1/2"
  - 5 - Lbs., Nuts, hexagon, R.H. thread, U.S. standard, 5/8"
  - 5 - Lbs., Nuts, hexagon, R.H. thread, U.S. standard, 3/4"
  - 3 - Lbs., Nuts, hexagon, R.H. thread, U.S. standard, 1"
  - 2 - Pint Cans, Oil, lard
  - 1 - Punch, center, 5/8" octagon, 7" long
  - 1 - Screwdriver, 5" blade
  - 18 - Ft., Steel, soft, 1/2 x 1"
  - 18 - Ft., Steel, soft, 1/4 x 1"
  - 9 - Ft., Steel, soft, 1" x 2"
  - 18 - Ft., Steel, soft, 3/8" round
  - 27 - Ft., Steel, soft, 1/2" round
  - 18 - Ft., Steel, soft, 3/4" round
  - 9 - Ft., Steel, soft, 1" round
  - 4 - Ft., Steel, tool, 3/4" octagon
  - 1 - Swage, bottom, 1/2", 3/4" shank
  - 1 - Swage, bottom, 3/4", 3/4" shank
  - 1 - Swage, top, 1/2" handled
  - 1 - Swage, top, 3/4", handled
  - 1 - Tongs, gad, flat jaw, 18"
  - 1 - Tongs, straight lip, 18"

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JUN 19 1940



HQ. & SERVICE CO., ENGINEER BATTALION  
(Officers - 5 -- Enlisted Men -- 120)

- 1 Set - Blacksmith, Quartermaster Tool Set I, consisting of:
- 1 - Anvil, BS steel face, 100 lbs., holes for 3/4" sq. shank handle
  - 2 - Apron, BS, leather
  - 2 - Bag, canvas, for nails
  - 1 - Bag, coal, 2 bushel
  - 1 - Caliper, BS, 8"
  - 1 - Chest, tool, M-1921, blacksmith
  - 1 - Chisel, BS, cold, 1-1/2", handled
  - 1 - Chisel, BS, hot, 1-1/2", handled
  - 1 - Chisel, hand, cold, 3/8"
  - 1 - Creaser, BS, steel, handled
  - 1 - Cutter, clinch, 6"
  - 1 - Divider, wing, 8"
  - 1 - Drill, breast, chuck cap. 0-1/2 double speed
  - 1 - File, bastard, 12"
  - 13 - Drills, twist, carbon steel, straight shank, 1/8" - 1/2" by 32
    - 1 - Flatter, BS, 2" sq. face, D-handled
    - 1 - Forge, BS, portable, light
    - 1 - Fuller, BS, bottom, 3/4" sq. shank
    - 1 - Hammer, BS, hand, 32-oz., handled
    - 1 - Hammer, farriers, shoeing, 10-oz., handled
    - 1 - Hammer, machinists, ball pein, 16-oz., handled
    - 3 - File, wood, large
    - 1 - Hardie, 3/4" sq. shank
    - 1 - Iron clinching
    - 1 - Kit, tool, canvas, M-1921
    - 1 - Knife, farrier, 3/4" bone handle
    - 1 - Nippers, farrier, cutting, 14"
    - 1 - Oil, 1/2-pint with oil
    - 1 - Pincer, farrier, shoeing, 14"
    - 1 - Pritchel, 5/8"
    - 2 - Punch, BS, round face, 1/4" and 3/8" handled
    - 1 - Punch, BS, sq. face, 3/8" handled
    - 1 - Rake, fire, for portable forge
    - 6 - Rasp, horseshoeing, plain, 16"
    - 1 - Roll, tool, canvas, for knives, twist drills for file rasps, sharpening stone and divider
    - 1 - Rule, steel, 3-ft., 6-fold
    - 3 - Set, rivet, for iron rivets, 1/4", 3/8" and 1/2"
    - 1 - Shovel for portable forge
    - 1 - Sledge, BS, class pein, 10-lbs.
    - 1 - Square, steel, 12" x 8"
    - 1 - Stone, sharpening, round edge, slips medium, 2-1/8" wide, 4-1/2" long
    - 1 - Threading set for bolts, including taps and dies, 1/4" to 3/4"; 7 sizes USS thread and tap wrench in box
    - 1 - Tongs, double pickup, 22"
    - 1 - Tongs, horseshoers, straight lip, 18"
    - 1 - Tongs, single pickup, 20"
    - 1 - Vise, BS, solid box, 5" jaw
    - 1 - Wrench, screw, monkey knife, handle 12"

HQ. & SERVICE CO., ENGINEER BATTALION  
(Officers - 5 -- Enlisted Men -- 120)

1 Set - Blueprinting equipment, consisting of:

- 1 - Chest, blueprinting
- 1 - Frame, printing, 24" x 30"
- 6 - 50-yds. rolls, Paper, blue print, sensitized, grade 2, medium, 30" wide
- 1 - 10-yds. roll, Paper, brown print, 30" wide
- 1 - Tray, zinc, 17" x 22"
- 1 - Tray, zinc, 24" x 30"
- 2 - Tube, tin, 4" x 39"

40 No., Compass, Watch

2 No., Compass, Prismatic, luminous dial with leather case

1 Set - Drafting Equipment, Battalion, consisting of:

- 1 - Board, drawing, 31" x 42" with trestle
- 3 - Book, record, side-opening, loose-leaf, 3" x 5", with fillers and index
- 1 - Chest, drafting, battalion
- 1 - Roll, 24-yds., Cloth, tracing, 30"
- 1 - Dividers, proportional, with case
- 1 - Eraser, "ART GUM", 1" x 1" x 2"
- 1 - Eraser, rubber, ink
- 2 - Eraser, rubber, pencil
- 1 - Eraser, steel
- 6 - Sets, Fillers, book, side-opening, loose leaf, 3" x 5", set of 50 sheets
- 2 - Ink, drawing, black, 3/4-oz. bottle
- 1 - Ink, drawing, blue, 3/4-oz. bottle
- 1 - Ink, drawing, brown, 3/4-oz. bottle
- 1 - Ink, drawing, carmine, 3/4-oz. bottle
- 1 - Instruments, drawing, office set, complete
- 1 - Map measure
- 1 - Pad, Pencil pointing
- 4 - Pad, scratch, 6" x 9"
- 12 - Paper, blotting, 2-3/4" x 9-1/2"
- 1 - 20-yds. roll, Paper, cross section, drawing, 20" wide, ruled in green, 10 x 10 to 1"
- 3 - 10-yds. roll, Paper, drawing, medium, cream color, 30" wide
- 1 - 20-yds. roll, Paper, profile, tracing, 20" wide, rule in orange, 4 x 20 to 1"
- 1 - 20-yds. roll, Paper, tracing, medium, 30" wide
- 2 - Doz., Paper, wrapping, 40" x 48"
- 1 - Paste, library, 6-oz. jar
- 3 - Pencil, colored, blue
- 3 - Pencil, colored, red
- 6 - Pencil, drawing H
- 6 - Pencil, drawing 3H
- 6 - Pencil, drawing 5H
- 1 - Set, Pen, lettering, freehand, "PAYZANT", with ink reservoir, set of 6, Nos. 000, 00, 0, 2, 4, 6.
- 1 - Card, Pens, lettering, crowquill, dozen on card with holder
- 1 - Gross, Pens, lettering, 5-points assorted

HQ. & SERVICE CO., ENGINEER BATTALION  
(Officers - 5 --- Enlisted Men - 120)

- 1 Set - Drafting Equipment, Battalion, consisting of (cont'd):
- 1 - Card, Pens, lettering, mapping, dozen on card with holder
  - 1 - Cone, Pins, office
  - 1 - Powder, tracing cloth, small shaker
  - 1 - Protractor, nickel silver, semicircular, 8", graduated to 1/4 degrees, with arm in case
  - 1 - Rule, parallel rolling, 12"
  - 1 - Rule, slide, Mannheim, 20", with case
  - 1 - Scale, architects, triangular, 12" with sheath
  - 1 - Scale, engineer, triangular, 12" with sheath
  - 1 - Scale, plotting, flat, boxwood, metric, 30 cms., graduated 1/10000 and 1/50000
  - 1 - Scale, plotting, flat, boxwood, metric, 30 cms., graduated 1/20000 and 1/50000
  - 1 - Shield, erasing
  - 1 - T-Square, steel, protractor head, 42"
  - 1 - Tables, logarithm, numbers and trigometric functions of degrees 7-place
  - 3 - Boxes, Tacks, thumb, box of 100 pieces
  - 2 - 12-yds. roll, Tape, adhesive, transparent, 5/8" wide
  - 1 - Triangle, xylonite, transparent, 30° - 60°, 10-inch
  - 1 - Triangle, xylonite, transparent, 45°, 8-inch
  - 1 - Tube, tin, 4" x 39"
  - 1 - 4-oz. ball, Twine, hemp

- 
- 3 Sets - Intrenching Equipment, Infantry, each set consisting of:
- 26 - Axe, single bit, 4-lb. head, handled
  - 500 - Bags, sand
  - 2 - Bar, pinch, 4', 8", 12-lb.
  - 1 - Box, saw, 36"
  - 1 - Grinder, tool, bench, 1-1/4" by 6 inch wheel
  - 3 - Handle, Axe, single bit, 36"
  - 10 - Handle, pick, 36"
  - 100 - Mattock, pick, large, handled
  - 25 - Pick, drifting, handled
  - 100 - Lbs., Nails, 10d
  - 100 - Lbs., Nails, 40d
  - 1 - Set, saw
  - 10 - Saw, crosscut, hand, 36", 1-man with supplemental handle
  - 150 - Shovel, D-handle, round point
  - 50 - Shovel, round point, long handle, 5-ft.
  - 1 - Tape, metallic, 50-ft., graduated in feet and inches
  - 6 - Tape, tracing, 500-ft. roll

- 
- 1 Set - Illuminating Equipment, consisting of:
- 2 - Lantern, "COLEMAN"
  - 4 - Doz., Mantle, COLEMAN
  - 1 - Can, Kerosene, 5-gals. can
  - 5 - Gals., Kerosene
  - 1 - Qt., Alcohol, denatured

- 
- 1 Set - Library, Reference, Regiment, consisting of:
- 1 - Book, reference, Architects & Builders Pocketbook
  - 1 - Book, reference, Automobile Handbook
  - 1 - Book, reference, Building Estimators' Reference Book
  - 1 - Book, reference, Chemistry and Physics, Chemical Rubber Co.
  - 1 - Book, reference, Civil Engineers' Handbook
  - 1 - Book, reference, Dictionary, English, desk
  - 1 - Book, reference, Electrical Engineer's Pocketbook
  - 1 - Book, reference, Formulas and Tables for Engineers, Pierce and Carver
  - 1 - Book, reference, Handbook, of Construction Plant
  - 1 - Book, reference, Handbook of Explosives, DUPONT CO.

1 Set - Library Reference, Regiment, consisting of (cont'd):

- 1 - Book, reference, Highway Engineers' Handbook
- 1 - Book, reference, Manual of American Railway Association
- 1 - Book, reference, Mechanical Engineers' Pocketbook
- 1 - Book, reference, Metric Conversion Tables
- 1 - Book, reference, Ready Reference Tables, Carl Hering
- 1 - Book, reference, Steam Power Plant Engineering
- 1 - Book, reference, Surveying, Johnson & Smith
- 1 - Book, reference, Waterworks Handbook
- 1 - Box, book, pressed steel

1 Set - Pipefitting Equipment, consisting of:

- 12 - Blade, hacksaw, 12", 14-teeth
- 1 - Chest, pipefitting equipment
- 1 - Cutter, pipe, wheel, capacity 1/2 to 2 inches
- 1 - Frame, hacksaw, adjustable, 8 to 12" blades
- 1 - Hammer, ball pein, 1-1/2-lb., handled
- 1 - Lead, white, in 1-lb. can
- 1 - 1 gal. can, oil, lard
- 1 - Oiler, rectangular, 3/4-pint
- 1 - Pliers, combination, slip-joint 8"
- 1 - Reamer, burring, spiral fluted, T-handle, 1/2 to 2 inches
- 1 - Rule, boxwood, 4-feet, 8-fold
- 4 - Screw, lag, square head, gimlet point, 3/8" x 3"
- 1 - Stock and dies, pipe, adjustable, 1/4", 3/8", 1/2", 3/4" and 1", complete with extra set of dies
- 1 - Stock and dies, pipe, adjustable, 1-1/4", 1-1/2" and 2" complete with extra set of dies
- 1 - Vise, pipe, hinge type, 1/4 to 2 inches
- 1 - Wrench, pipe, 14 inch
- 1 - Wrench, pipe, 18 inch

21 No., Rule, tape, stainless steel, 6-ft. flexible

1 Set - Sign Painting Equipment, consisting of:

- 4 - Brush, paint, flat, 3-inch
- 2 - Brush, paint, flat, 1-inch
- 2 - Brush, sign writing, 1/8"
- 4 - Brush, sign writing, 1/4"
- 4 - Brush, sign writing, 3/8"
- 2 - Brush, stencil, round, 3/4"
- 1 - Brush, varnish, flat, 2-inch
- 1 - Chest, sign painting equipment
- 1 - Crate, sign painting equipment
- 1 - Knife, putty, 1-1/4 x 3-1/2" blade
- 1 - Gal., Oil, linseed, boiled, in gallon can
- 4 - Qts., Paint, ground in oil, ready mixed, in quart can, black
- 2 - Qts., Paint, ground in oil, ready mixed, in quart can, red
- 8 - Qts., Paint, ground in oil, ready mixed, in quart can, yellow
- 8 - Qts., Paint, ground in oil, ready mixed, in quart can, white
- 20 - Shts., Paper, stencil, oiled, 8" x 36"
- 1 - Set, Stencils, brass, 1-1/2", A to Z, 0 to 9
- 1 - Set, Stencils, brass, 3", A to Z, 0 to 9
- 1 - Set, Stencils, brass, 5", A to Z, 0 to 9
- 4 - Tacks, carpet, No. 8, 1/2-lb. papers
- 30 - Shts., Terneplate, 26-gauge, 12" x 24", 8-lb. coated
- 1 - Gallon, Turpentine, gum spirits
- 1 - Gallon, Varnish, spar, in gallon can

- 2 Sets - Sketching Equipment, each set consisting of:
- 1 - Alidade, boxwood, triangular, 8-1/2"
  - 1 - Board, sketching, with waterproof cloth cover
  - 6 - Celluloid, transparent, colorless, 12-1/2" x 13-1/8"
  - 1 - Chest, sketching equipment
  - 1 - Clinometer, service, with leather case
  - 1 - Compass, prismatic, luminous dial with leather case
  - 4 - Eraser, rubber, pencil
  - 1 - Paper, sketching, 12-1/2" x 13-1/8" pad of 72 sheets
  - 16 - Pencils, drawing H
  - 4 - Protector, pencil point
  - 1 - Strap, wrist leather
  - 1 - Tally, pace
  - 3 - Tape, adhesive, transparent, 5/8" wide, 12-yd. roll
  - 1 - Tripod, sketching, wooden, folding, 40-3/4" long

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- 1 Set - Surveying Equipment, consisting of:
- 1 - Transit, K&E complete
  - 1 - Level, Hildebrand
  - 2 - Range, Ples, tubular, 1-1/2" diam., 3 mts. long
  - 1 - Level, rod
  - 1 - Stadia rod
  - 1 - Tape, steel, 50 mts.
  - 2 - Books, Level
  - 2 - Transit Books
  - 1 - Level, Abney Hand, K&E No. 5713TP

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- 1 Set Supplementary Equipment, Combat, Engr., consisting of:
- 100 - Drift bolts, 1/2" x 16"
  - 100 - Bolts, machine, 5/8" x 18" with nut and two washers each
  - 100 - Lbs., Nails, 8d
  - 200 - Lbs., Nails, 10d
  - 200 - Lbs., Nails, 30d
  - 200 - Lbs., Nails, 60d
  - 2 - Plow, road, heavy (2 carabaos)
  - 2 - Drags, Earth, road
  - 2 - Wire, steel, No. 10, 100-lb. coil
  - 4 - Wire, barbed
  - 40 - Wheelbarrows
  - 12 - Fork stone
  - 12 - Rake, steel
  - 24 - Tampers, Road, 8" x 8" face

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- 1 Set - Tinsmith Equipment, consisting of:
- 1 - Box, tinsmith equipment
  - 2 - Copper, soldering, 1-lb., handled
  - 2 - Paste, soldering, 4-oz. can
  - 1 - Snips, tinnerns, 3" cut, 15" long
  - 5 - Lbs., Solder, half and half
  - 1 - Torch, blow, with soldering copper attachment, capacity 1 quart

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- 1 Set - Water Supply Equipment, Engineer, consisting of:
- 12 - Bags, canvas, water, sterilizing, with cover
  - 3 - Basin, canvas, storage, water, 20 x 20 ft.
  - 8 - Hose, discharge, 2", unlined linen, 50-ft. lengths, with standard pipe-threaded couplings (2 for the pumping set, centrifugal; 1 for each pump, lift and force; 1 spare)

HQ. & SERVICE CO., ENGINEER BATTALION  
(Officers - 5 --- Enlisted Men - 120)

- 1 Set - Water Supply Equipment, Engineer, consisting of (cont'd):
- 6 - Hose, suction, 2", rubber, 25-ft. lengths, with standard pipe-threaded couplings (1 for each pump, lift and force, 1 spare)
  - 2 - Hose, suction, 2-1/2", rubber, 25-ft. lengths, with standard pipe-threaded couplings (1 for the pumping set, 1 spare)
  - 5 - Pump, lift and force, hand, 4" cylinder, 4-1/2" stroke, 2" male suction and discharge, complete with foot valves and strainers
  - 1 - Pump, Centrifugal, small, gasoline driven, 50 GPM, 50-ft. head maximum
  - 400 - Ft., Rope, Manila, 1/2" diam.

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